

DEVELOPMENT REVIEW COMMITTEE

Tuesday, October 27, 2020, at 10:00 AM Court Room/Council Chambers (2nd Floor) and Online

MEETINGS HELD ONLINE ONLY

Pursuant to recent updates from the Utah State Department of Health regarding the number of people allowed to gather physically for a public meeting, in-person participation will be limited to elected and appointed city officials only. The public is invited to participate electronically as outlined below.

YouTube Live – Public meetings will be shown live on the Santaquin City YouTube Channel, which can be found at https://www.youtube.com/channel/UCTzZT_yW2H2Hd-58M2_ddSw or by searching for Santaquin City Channel on YouTube.

ADA NOTICE

If you are planning to attend this Public Meeting and, due to a disability, need assistance in understanding or participating in the meeting, please notify the City Office ten or more hours in advance and we will, within reason, provide what assistance may be required.

AGENDA

NEW BUSINESS

1. Ridley's Pad Site C Site Plan

A site plan review of Ridley's Pad Site C, a 3 unit commercial building located at 500 E. and Main Street.

2. Parker View Subdivision Final Review

A final review of a 3 lot subdivision located at approximately Main Street and Highland Drive.

MEETING MINUTES APPROVAL

AJOURNMENT

CERTIFICATE OF MAILING/POSTING

The undersigned duly appointed City Recorder for the municipality of Santaquin City hereby certifies that a copy of the foregoing Notice and Agenda was e-mailed to the Payson Chronicle, Payson, UT, 84651, posted on www.santaquin.org, as well as posted on the State of Utah's Public Website.

BY

K. Aaron Shirley, City Recorder

SANTAQUIN PAD C SEQUENCE 350 SOUTH 200 EAST, #106 SALT LAKE CITY, UTAH 84||1 P: 801.596.069| DESIGNUTAH.COM

SANTAQUIN, UTAH

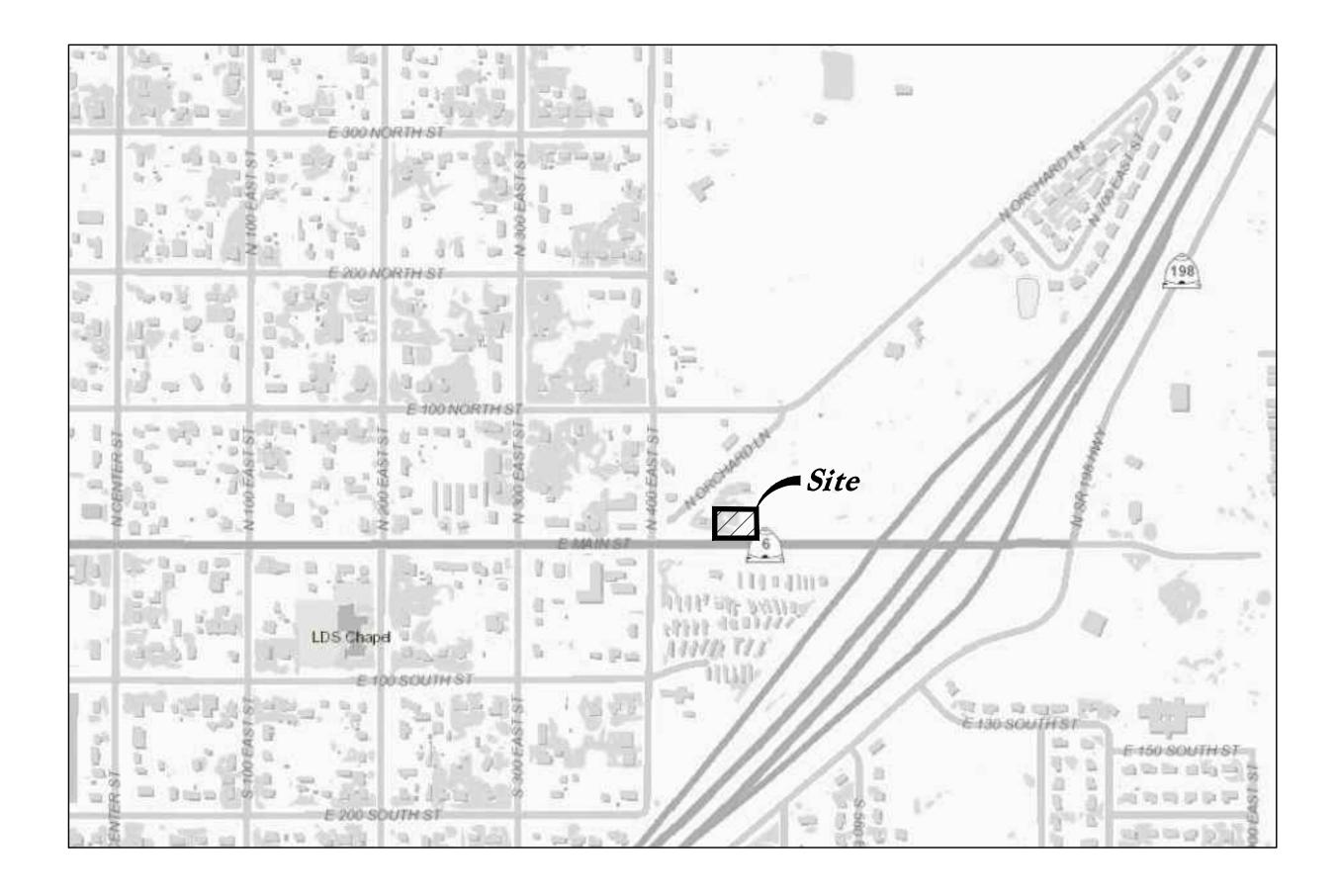




RETAIL BLDG CODE ANALYSIS	GENERAL NOTES	DEFERRED SUBMITTALS	DRAWING INDEX	DOSED ARCHITECTURE
APPLICABLE CODES Year Year International Building Code International Mechanical Code International Plumbing Code International Plumbing Code International Fire Code International Fire Code International Energy ADA Accessibility Guildelines ICC/ANSI A117.1	1. CONTRACTORS AND SUBCONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH ALL PORTIONS OF THE DRAWINGS, SPECIFICATIONS, ADDENDUM AND CHANGE ORDERS THAT PERTAIN TO THEIR WORK. THEY SHALL BE HELD RESPONSIBLE FOR ADHERING TO THOSE REQUIREMENTS AND SHALL NOT PREPARE ANY BID FROM PARTIAL SETS. 2. STUD BOTTOM TRACKS TO BE MECHANICALLY FASTENED TO THE SLAB OR SUB FLOORING AS OCCURS. 3. STUDS TO BE SHEATHED WITH § TYPE 'X' GYP. BOARD UNLESS OTHERWISE NOTED. 4. PROVIDE SEALANT AROUND ALL PERIMETER WALL PENETRATIONS. 5. ALL NUTS, BOLTS & MISCELLANEOUS METAL EXPOSED TO WEATHER SHALL BE GALVANIZED UNLESS OTHERWISE NOTED. 6. ALL WORK SHALL COMPLY STRICTLY WITH THE 2015 INTERNATIONAL BUILDING CODE, AND ALL LOCAL CODES AND ORDINANCES.	FIRE ALARM SYSTEM: THE GENERAL CONTRACTOR IS TO PROVIDE A SET OF FIRE ALARM DRAWINGS PRIOR TO THE INSTALLATION OF ANY FIRE ALARM COMPONENTS. FIRE SPRINKLER SYSTEM: THE GENERAL CONTRACTOR IS TO PROVIDE A SET OF FIRE SPRINKLER PLANS INCLUDING THE MAIN SIZE AND PRESSURE, HYDRAULIC CALCULATIONS, ETC. PRIOR TO THE INSTALLATION OF ANY FIRE PROTECTION COMPONENTS. NOTE: ADDITIONAL DEFERRED SUBMITTALS SHALL BE SUBMITTED AS INDICATED IN THE CONTRACT DOCUMENTS INCLUDING,	GENERAL A0.0 TITLE SHEET, NOTES, CODE ANALYSIS AND INDEX CIVIL CV COVER SHEET C0.1 DEMOLITION PLAN C1.1 SITE PLAN C2.1 GRADING PLAN	
OCCUPANCY TYPE IS NOT FINALIZED. ASSUME M, B, OR A-2. BUILDING WILL BE MIXED OCCUPANCY, NON-SEPARATED USES. PLANS FOR TENANT FINISH WILL BE SUBMITTED SEPARATELY	6. ALL WORK SHALL COMPLY STRICTLY WITH THE 2015 INTERNATIONAL BUILDING CODE, AND ALL LOCAL CODES AND ORDINANCES. 7. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND SHALL REPORT ANY INCONSISTENCIES TO THE ARCHITECT. 8. DRAWINGS ARE NOT TO BE SCALED, DIMENSIONAL DISCREPANCIES SHALL BE CLARIFIED WITH THE ARCHITECT. 9. ALL DIMENSIONS ARE TO FACE OF CONCRETE, MASONRY OR GYP. BD. UNLESS OTHERWISE NOTED. 10. PROTECT PORTIONS OF THE BUILDING ADJACENT TO OR AFFECTED BY CONSTRUCTION. 11. DO NOT CLOSE OR OBSTRUCT STREET, WALKS, DRIVES, PARKING OR OTHER OCCUPIED OR USED SPACES OR FACILITIES WITHOUT THE WRITTEN PERMISSION OF THE OWNER AND AUTHORITIES HAVING JURISDICTION.	BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL AND ELECTRICAL DOCUMENTS.	C2.2 ACCESSIBLE DETAILS C2.3 RETAINING WALL PLAN AND PROFILE C3.1 UTILITY PLAN C4.1 DETAILS C4.2 DETAILS C4.3 DETAILS C5.1 EROSION CONTROL SITE MAP	
A. Occupancy and Group: M B A-2 Change in Use: Yes NoX Mixed Occupancy: YesX No Special Use and Occupancy (e.g. High Rise, Covered Mall): B. Seismic Design Category: D Design Wind Speed: mph	 DO NOT INTERRUPT UTILITIES SERVING OCCUPIED OR USED FACILITIES WITHOUT THE WRITTEN PERMISSION OF THE OWNER AND AUTHORITIES HAVING JURISDICTION. CONTRACTOR SHALL REMOVE ALL SURPLUS MATERIALS, FALSE WORK, TEMPORARY STRUCTURES INCLUDING FOUNDATIONS & DEBRIS OF EVERY NATURE RESULTING FROM HIS OPERATIONS, AND PUT THE SITE IN A NEAT, ORDERLY CONDITION. CONTRACTOR SHALL VERIFY THE LOCATION AND SHALL PROVIDE AND PROTECT UTILITIES WITHIN THE WORK AREA, WHETHER OR NOT INDICATED IN THE DRAWINGS. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES IMMEDIATELY SHOULD SERVICES BE INTERRUPTED. GENERAL CONTRACTOR TO FIELD VERIFY ALL CONDITIONS WHERE WORK IS BEING PERFORMED. A SET OF AS-BUILT DRAWING PRINTS WILL REMAIN ON SITE DURING REMODEL. 		L1.1 LANDSCAPE PLAN L2.1 IRRIGATION PLAN L3.1 DETAILS ARCHITECTURAL A1.1 FLOOR PLAN AND ROOF PLAN A2.1 EXTERIOR ELEVATIONS A3.1 WALL SECTIONS	
C. Type of Construction (circle one): \[\frac{\frac{1}{A}}{A} \frac{\frac{1}{B}}{B} \frac{\frac{1}{B}}{A} \frac{\frac{1}{B}}{B} \frac{\frac{1}{M}}{A} \frac{\frac{1}{B}}{B} \frac{\frac{1}{M}}{A} \frac{\frac{1}{B}}{B} \] D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours): \[\text{North: 0 South: 0 East: 0 West: 0} \]	17. AFTER PROJECT COMPLETION THE G.C. WILL DELIVER TO THE OWNER 30 DAYS AFTER COMPLETION TWO SETS OF NEW AS-BUILTS AND ALL NECESSARY CLOSE OUT DOCUMENTS. 18. FIRE EXTINGUISHERS ARE TO BE MAINTAINED IN ALL AREAS WHERE TORCHES ARE BEING USED. 19. ALL CONTRACTORS ARE TO SUPPLY THEIR OWN SAFETY EQUIP. 20. CONTRACTOR TO PROVIDE AND INSTALL FIRE EXTINGUISHERS PER THE DIRECTION OF THE AUTHORITY HAVING JURISDICTION PRIOR TO SUBSTANTIAL COMPLETION. 21. FLOOR CARPET SHALL BE TESTED IN ACCORDANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION STANDARD 253 AND BE A CLASS I (0.45 WATTS/CM) IN CORRIDORS, EXIT ENCLOSURES AND EXIT PASSAGEWAYS.		A5.1 DETAILS A5.2 DETAILS A6.1 SCHEDULES A7.2 RCP AND DETAILS STRUCTURAL SOO1 STRUCTURAL NOTES	
E. Mixed Occupancies: Yes Nonseparated Uses: Yes F: Sprinklers: Required: X Provided: X Type of Sprinkler System: Wet G: Number of Stories: 1 Building Height: 21'-0" H: Tabular Area:	 THERMAL AND SOUND INSULATION AND COVERING WHICH ARE INSTALLED IN CONCEALED AND EXPOSED SPACES AND AS COVERING OVER PIPE AND TUBING SHALL BE TESTED IN ACCORDANCE WITH AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) E 84 AND HAVE A FLAME SPREAD OF 0-25 AND A SMOKE INDEX OF 0-450. THERMAL AND SOUND INSULATION AND COVERING OVER PIPE AND TUBING WHICH ARE INSTALLED IN CONCEALED PLENUM SPACES SHALL BE TESTED IN ACCORDANCE WITH AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) E 84 AND HAVE A FLAME SPREAD OF 0-25 AND A SMOKE INDEX OF 0-50. INTERIOR WALL FINISHES WHICH ARE TEXTILES AND CEILING TILE SHALL BE TESTED IN ACCORDANCE WITH AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) E 84 AND HAVE A FLAME SPREAD OF 0-25 AND A SMOKE INDEX OF 0-450 SMOKE DAMPERS SHALL BE LISTED UL555S AND BE CONTROLLED BY AUTOMATIC SMOKE DETECTION EITHER IN THE DUCT OR AREA OF SMOKE SEPARATION. PENETRATIONS OF SMOKE BARRIERS AND PARTITIONS SHALL BE PROVIDED WITH AN APPROVED FIRE/SMOKE STOP SYSTEM OF A MINIMUM OF 1 HOUR FIRE RATED MATERIALS WHICH HAVE 		S002 SCHEDULES S003 SCHEDULES S101 PLANS S201 DETAILS S202 DETAILS S203 DETAILS	
MAIN LEVEL FLOOR AREA OCCUPANT LOAD UNKNOWN UNTIL TENANT LEASING HAS BEEN FINALIZED. ALL LEASE SPACES WITH OCCUPANT LOADS OF 50 OR GREATER WILL BE PROVIDED WITH AT LEAST 2 EXITS.	BEEN TESTED BY ASTM E 814. 27. FIRE STOPPING MATERIALS FOR NON-FERROUS PIPE, CONDUIT AND OTHER SYNTHETIC MATERIALS SHALL BE COMPATIBLE WITH EACH. 28. ENVIRONMENTAL AIR DUCTS THAT PENETRATE FIRE RATED ASSEMBLIES SHALL BE PROVIDED WITH UL 555 LABELED FIRE DAMPERS THAT HAVE A FIRE RATING OF AT LEAST 75% OF THE ASSEMBLY BEING PENETRATED. ALL SYSTEMS SHALL COMPLY WITH IFC 907.2.13.1.2. AND 907.4.1 AS APPROPRIATE. 29. ALL FIRE RATED ASSEMBLIES SHALL BE TESTED IN ACCORDANCE WITH AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) E 119 OR EQUIVALENT. 30. CONTRACTOR TO ENGINEER ALL STUD CONNECTIONS, TYP.		M0.1 LEGENDS AND SCHEDULES M1.1 HVAC FLOOR PLAN P1.1 PLUMBING FLOOR PLAN M2.1 MECHANICAL ROOF PLAN M6.1 DETAILS ELECTRICAL	
I: Area Modifications per IBC 506: $I_{f} = \left[\frac{F}{P} - 0.25\right] \frac{W}{30}$ ALLOWABLE AREA - IBC SECTION 506: $AREA \ MODIFICATIONS - IBC \ SECTION \ 506.2.1: \qquad Aa = 15,750 \ SF$	Act. Accoustic Ceiling Tile Galv Galvanized Q.T. Quarry Tile Alt. Alternate G.I. Galvanized Iron Rad. Radius Alum. Aluminum Ga. Gauge R.B. Rubber Base A.B. Anchor Bolt G.I. Glass R.W.L. Rain Water Leader A.B. Anchor Bolt G.R. Grade R.F.F. Reference Finish Floor Arch. Architectural Gnd. Ground Refl. Reflected MATERIALS LEGEND MATERIALS LEGEND SAND CON		EGO.1 ELECTRICAL SYMBOLS AND NOTES EG5.1 SPECS EG5.2 DETAILS EG6.1 SCHEDULES EG6.2 SCHEDULES ES1.1 SITE PLAN EP1.1 ELECTRICAL PLAN EP1.2 ROOF PLAN	RETAIL BUILDING
Aa = {At + [NS x If] } 15,750 S.F. = {9,000 S.F. + [9,000 S.F. x 0.75] } Where: Aa = Allowable area (square feet). At = Tabular allowable area factor - Table 506.2 (square feet). NS = Tabular allowable area factor - Table 506.2 (square feet). If = Area factor increase due to frontage - Section 506.3.3 (square feet). AREA INCREASE DUE TO FRONTAGE - IBC SECTION 506.3: If = 0.75	@ At or At The Gyp. Gypsum Board Reinf. Reinforcing Bm. Beam Blk. Block Blkg. Blocking Bd. Gypsum Waterproof Board Req. Required Blkg. Blocking Bd. Hardware Group # Rev. Revised Bd. Board Bd. Hardware Group # Rev. Revised Bd. Board Bd. Hardwood R. Riser Bd. Board Bd. Board Bd. How Hardwood R. Riser Bd. Board Bd. Board Bd. How Hardwood R. Room Bldg. Building Cpt. Carpet Clkg. Caulking Cl. Cast Iron Clq. Ceiling At or At The Gyp. Gypsum Board Reinforcing Required Required Ret. Retaining Rev. Revised Rev. Revised Rev. Revised Revised Rev. Revised Rev. Revised Rev. Revised Rev. Revised Revised Retaining Reinforcing Required Ret. Retaining Reinforcing Required Rev. Revised Revised Revised Revised Revised Retaining Reinforcing Required Rev. Retaining Reinforcing Required Rev. Revised Revised Retaining Reinforcing Required Rev. Revised Revised Retaining Reinforcing Required Rev. Retaining Reinforcing Required Rev. Retaining Redining Reinforcing Required Rev. Retaining Redining Rev. Required Rev. Revised Retaining Rev. Revised Retaining Rev. Revised Retaining Rev. Retaining Rev. Revised Rev. Revised Revised Rev. Revised Revised Rev. Revised Revised Rev. Revised Revised Rev. Revised Revise	STRUCTURAL ENGINEER ELECTRICAL ENGINEER ARW Engineers Van Boreum & Frank 801.782.6008 801.530.3148 RBLE GRAPHIC SYMBOLS		SANTAQUIN PAD C SANTAQUIN, UTAH
If = [F/P - 0.25] W/30 0.75 = [380'/380' - 0.25] 30/30 Where: If = Area increase factor due to frontage - Section 506.3 (square feet). F = Building perimeter that fronts on a public way or open space having 20 feet open minimum width (feet). P = Perimeter of entire building (feet). W = Width of public way or open space (feet) in accordance with Section 506.3.	Ctr. Center Inusl. Insulation Sim. Similar Ccr. Center Line Inusl. Insulation Sim. Similar Ccr. Ceramic Int. Interior SI./SIp. Slope C.T. Ceramic Tile I.E. Invert Elevation S.C. Solid Core Clo. Clear (ance) Jan. Janitor Sq. Square Col. Column Jt. Joint Std. Standard Conc. Concrete Masonry Unit CMP Corrugated Metal Pipe Conn. Connection Constr. Construction Constr. Construction Cont. Construction Lt. Light Telephone Sht. Sheet Sht. Sheet Sim. Similar Sim. Similar Sim. Similar Sim. Similar Sim. Similar Stope Spec. Specifications Sq. Square Std. Standard Std. Standard Std. Standard Std. Steel Stor. Storage Structural/Structure Sym. Symmetrical Ti.B.R. To be Removed (BLOCKING) PLY	ANITE RM. NAME RM. NAME RM. NAME RM. WAME RM		MARK DATE DESCRIPTION
 J. Design Occupant Load, Exit Width and Number of Exits: OCCUPANT LOAD UNKNOWN UNTIL TENANT LEASING HAS BEEN FINALIZED. ALL LEASE SPACES WITH OCCUPANT LOADS OF 50 OR GREATER WILL BE PROVIDED WITH AT LEAST 2 EXITS. M. Minimum Number of Required Plumbing Facilities: UNKNOWN UNTIL TENANT LEASING HAS BEEN FINALIZED. 	Dim. Dimension Memb. Membrane T. Tread Dn. Down Men Men's Toilet Typ. Typical D.S. Downspout Mtl./Met. Metal Unf. Unfinished Dwg. Drawing Min. Minimum U.N.O. Unless Noted Otherwise D.F. Drinking Fountain Mir. Mirror Var. Vary or Varies BAT	WALL TYPE SYMB. # KEYED NOTE SYMB. # DOOR/HDWR. SYMB. # WINDOW SYMB. # WINDOW SYMB.		DATE: SEPTEMBER II, 2020 AGENCY PROJECT NO: DESIGN SEQUENCE PROJECT NO: 2010.01 CAD DWG FILE NO:
	E. East Misc. Miscellaneous Vert. Vertical Ea. Each Mtd. Mounted V.T.R. Vent Through Roof Elec. Electric (al) Mul. Mullion VCT Vinyl Composition Tile Elev./El. Elevation Nom. Nominal W/ With Exist. Existing N. North W.A.S. Welded Anchor Stud Eq. Equal N.I.C. Not In Contract Wd. Wood Equip. Equipment N.T.S. Not To Scale Wp. Waterproof Exist. Existing No. or # Number Wsct. Wainscot Exist. Existing No. or # Number Wsct. Wainscot Exist. Existing No. or # Number Wsct. Without Exp. Expansion Off. Office W/o Without Ext. Exterior O.C. On Center W.P. Working Point Fin. Finish Opng. Opening W.R. Water Resistant Fig. Alarm Opp. Opposite W.I. Wrought Iron	DUSTICAL E CKER ROD AND LER		DRAWN BY: KV DESIGNED BY: KV DWG TYPE: ARCHITECTURAL PHASE: PERMIT SET SHEET TITLE
	FIr./FI. F.E. Cabinet Circle Overliew Roof Brain F.D. Floor F.O.S. Floor Drain	PSUM ARD REMOVE		INDEX, CODE ANALYSIS, GENERAL NOTES
				Α0.0

Ridley's Santaquin - Retail C

400 East Main Street Santaquin, UT, 84655



Santaquin City Notes

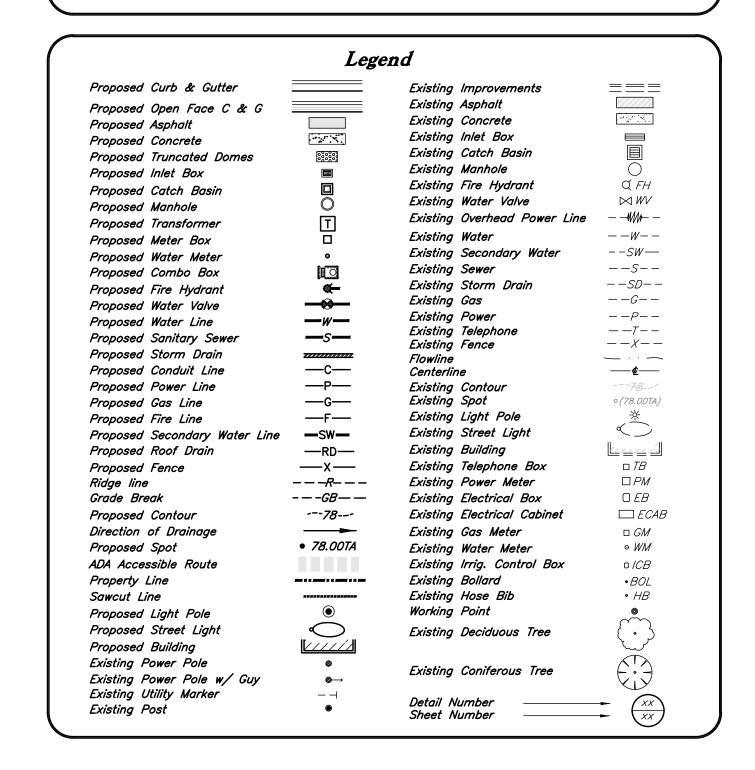
It is important for the developer and the general contractor to understand that it is his/her responsibility to ensure that all improvements installed within this development are constructed in full compliance with all state and Santaquin City codes, ordinances and standards. This fact does not relieve the developer or general contractor from full compliance with all minimum state and Santaquin City standards.

Santaquin City Note to Developers & General Contractors

All recommendations made in the provided geotechnical report/study shall be followed explicitly during construction of building and site improvements.

BCR Begin Curb Return PT Point of Tangency BOL Bollard PVC Polyvinyl Chloride BRW Finish Grade — Bottom of Retaining Wall PVI Point of Vertical Intersection CATV Cable Television Box RCP Reinforced Concrete Pipe CB Catch Basin RD Roof Drain CMP Corrugated Metal Pipe SB Signal Box COB Cleanout Box SD Storm Drain COTG Cleanout to Grade SDMH Storm Drain Manhole EA Edge of Asphalt SMH Sewer Manhole EB Electrical Box SP Signal Pole EC End of Curve SS Sanitary Sewer ECR End Curb Return SVZ Sight Visibility Zone GB Grade Break SW Secondary Water GM Gas Meter TA Top of Asphalt HB Hose Bib TB Telephone Box HP High Point TBC Top Back of Curb I Irrigation Control Box TMH Telephone Manhole Lip Lip of Gutter TP Top of Concrete LP Light Pole TRW Finish Grade — Top of Retaining Wall MH Manhole TW Top of Walk Mon Monument VC Vertical Curve PCC Point of Curvature VPC Vertical Point of Curve PCC Point of Intersection WL Waterline PM Power Meter WP Working Point PP Power Pole WV Water Valve

Abbreviations



Civil Sheet Index

CIVII SIIEEL IIIGEA
CV Cover Sheet
CO.1 Demolition Plan
C1.1 Site Plan
C2.1 Grading Plan
C2.2 Accessible Details
C2.3 Retaining Wall Plan and Profile
C3.1 Utility Plan
C4.1 Details
C4.2 Details
C4.3 Details
C5.1 Erosion Control Plan
L1.1 Landscape Plan
L2.1 Irrigation Plan
L3.1 Landscape & Irrigation Details

Designed by: SY

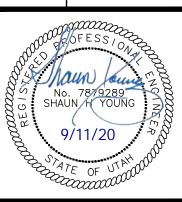
Drafted by: JD

Ridley's Family Markets

20-112 CV

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idley's San



11 Sep, 2020

CV

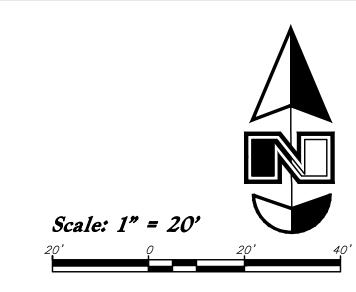
Designed by: SY

Ridley's Family Markets

20-112 DM

Drafted by: JD

Client Name:



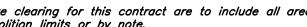
General Demolition Notes:

- 1. Demolition and site clearing for this contract are to include all areas shown within demolition limits or by note.
- 3. All curbs, gutters, walks, slabs, walls, fences, flatwork, asphalt, waterlines and meters, gas lines, sewer lines, light poles, buried cables, storm drain piping and structures to be cleared from site unless
- 6. Clear and grub trees, shrubs, and vegetation within construction limits, disposal to be off-site except where noted otherwise.
- 7. DO NOT interrupt any services or disrupt the operation of any
- 8. Remove debris, rubbish, and other materials resulting from the a legal manner.
- sediment transport to adjacent drainage ways.
- 11. Contractor shall be responsible for disposal of all waste material. Disposal shall be at an approved site for such material. Burning onsite
- Contractor shall verify with city any street removal, curb cuts, and any restoration required for utility line removal.
- 13. Install traffic warning devices as needed in accordance with local
- 14. Contractor shall obtain all permits necessary for demolition from City, County, State or Federal Agencies as required.
- soils he shall immediately contact the project engineer to provide notification and obtain direction before proceeding with disturbance of
- 16. Limits of demolition/disturbed areas shown on the plans may not be an part of the contract bid.

CAUTION :

The location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete.



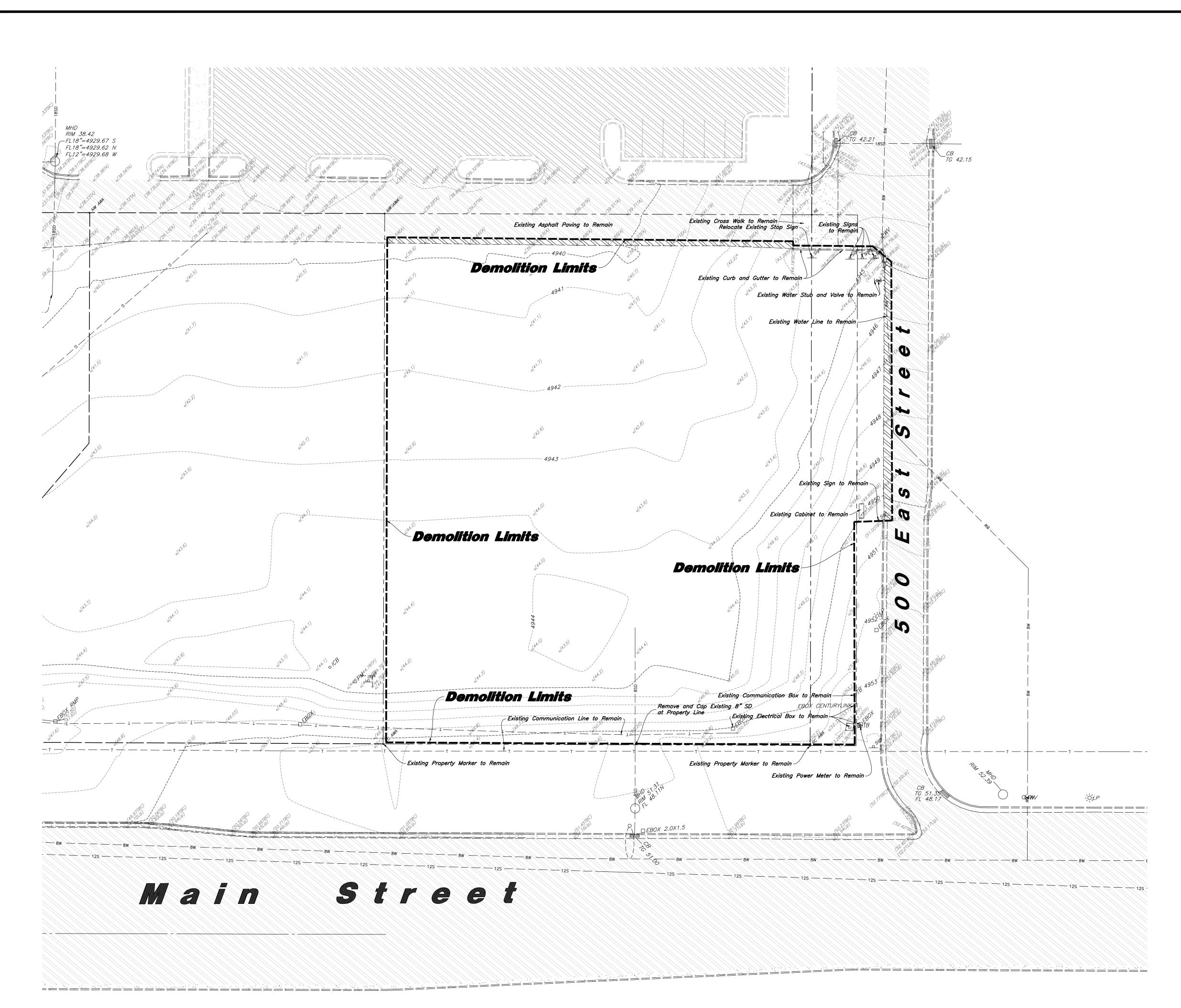


- 2. Refer to site improvement plans for more details on limits of removal.
- otherwise shown.
- All utilities, sewer, water, gas, telephone and electrical services to be disconnected and capped according to city, county and utility company requirements, unless otherwise shown.
- 5. Excavated areas to be backfilled with clean granular material compacted to 95% of maximum lab density as determined by ASTM D 1557-78. (Test results to be given to owner) Excavated areas should be backfilled per the geotechnical report prepared for the project.
- businesses shown outside the demolition limits.
- demolition and site clearing operations from the site and dispose of in
- 9. The location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied upon as being exact or complete. Contractor shall contact authorities having jurisdiction for field locations. Contractor shall be responsible for protection of in place and relocated utilities during
- Stockpiles shall be graded to maintain slopes not greater than 3
 horizontal to 1 vertical. Provide erosion control as needed to prevent
- is not permitted.

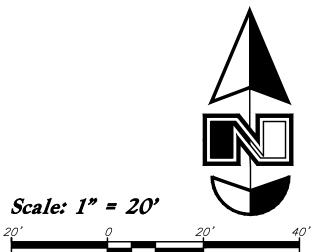
- said materials or contaminated soil.
- exact depiction. It is the contractor's responsibility to determine the means and methods of how the work will be completed. The contractor shall determine the area of construction impact. The contractor is responsible to restore all impacted areas and all restoration shall be



11 Sep, 2020







Site Data

L-----

N 89°49'57" W

MHD RIM 38.42

-FL18"=4929.67 S

FL18"=4929.62 N FL12"=4929.68 W

======

(14)

~---

S 89°46'05" E

Main Street

Retail C

FF = 4943.00

Previous Property Area = 43,056 s.f.

Landscape Area Provided = 11,234 s.f. (23.6%)

Parking Required = 1/200 s.f. = 43 stalls

Parking Provided = 41 stalls (4.9/1,000)

Impervious Area Provided = 28,011 s.f. (58.7%)

Total Area = 47,685 s.f. (1.09 ac.)

Building Area = 8,440 s.f (17.7%)

Acquisition Area = 4,629 s.f.

(1) Const. 24" Curb & Gutter

7 Const. Accessible Sign per MUTCD & ICC/ANSI
A117.1 (Latest Edition) 13 (See Accessible Details and Notes)

8 Const. Accessible VAN Sign per MUTCD & ICC/ANSI A117.1 (Latest Edition) (See Accessible Details and Notes)

Sawcut; Provide Smooth Clean Edge

 $\langle 14 \rangle$ Conn. & Match Existing Improvements

General Site Notes:

- 1. All dimensions are to back of curb unless otherwise
- 4. Const. curb transition at all points where curb abuts
- plans may not be an exact depiction. It is the methods of how the work will be completed. The contractor shall determine the area of construction

The Construction Survey Layout for this project will be provided by Anderson Wahlen & Associates. The Layout Proposal and Professional Services Agreement will be provided to the General Contractor(s) for inclusion in base bids. The Survey Layout proposal has been broken out into Building Costs and Site Costs for use in the Site Work Bid Form.

following the National Society of Professional Surveyors (NSPS) model standards for any surveying or construction layout to be completed using Anderson Wahlen and Associates ALTA Surveys or Anderson Wahlen and Associates construction improvement plans. Prior to proceeding with construction staking, the surveyor shall be responsible for verifying horizontal control from the survey monuments and for verifying any additional control points shown on an ALTA survey, improvement plan, or on electronic data provided by Anderson Wahlen and Associates. The surveyor shall also use the benchmarks as shown on the plan, and verify them against no less than three existing hard improvement elevations included on these plans or on electronic data provided by Anderson Wahlen and Associates. If any discrepancies are encountered, the surveyor shall immediately notify the engineer and resolve the discrepancies before proceeding with any construction staking.

The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property: that this requirement shall apply continuously and not be limited to normal working hours; owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.

Site Construction Notes

5 Const. Accessible Striping per MUTCD & ICC/ANSI 11
A117.1 (Latest Edition)
(See Accessible Details and Notes)

6 Const. Accessible Ramp per ICC/ANSI A117.1 (Latest Edition) (See Accessible Details and Notes)

Const. 4" White Paint Stripe (Typ.) Contractor shall provide 15 mils min. thickness

 $\langle 10 \rangle$ Const. Conc. Paving $\frac{3}{(C4.1)}$

(12) Dumpster Enclosure (See Arch. Plans)

(15) Const. Modular Block Retaining Wall (Wall Design By

- 2. Fire lane markings and signs to be installed as directed by the Fire Marshal.
- 3. Aisle markings, directional arrows and stop bars will be painted at each driveway as shown on the plans.
- sidewalk, see detail.
- 5. Contractor shall place asphalt paving in the direction of vehicle travel where possible.
- 6. Limits of demolition/disturbed areas shown on the contractor's responsibility to determine the means and impact. The contractor is responsible to restore all impacted areas and all restoration shall be part of the contract bid.

Construction Survey Note:

Survey Control Note:

The contractor or surveyor shall be responsible for

PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

and that the contractor shall defend, indemnify, and hold the

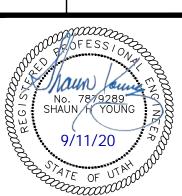
20-112 SP

Designed by: SY

Drafted by: JD Client Name:

Ridley's Family Markets

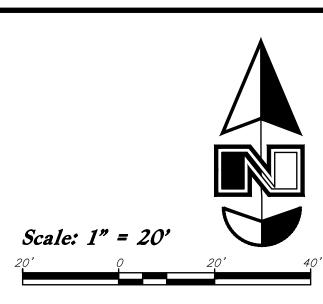
antaquin



11 Sep, 2020







General Grading Notes:

- 1. All grading shall be in accordance with the project geotechnical study.
- 2. Cut slopes shall be no steeper than 3 horizontal to 1 vertical.
- 3. Fill slopes shall be no steeper than 3 horizontal to 1 vertical.
- Fills shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by a Geotechnical Engineer.
- Areas to receive fill shall be properly prepared and approved by a Geotechnical Engineer prior to placing fill.
- Fills shall be benched into competent material as per specifications and geotechnical report.
- All trench backfill shall be tested and certified by a Geotechnical Engineer.
- A geotechnical engineer shall perform periodic inspections and submit a complete report and map upon completion of the rough grading.
- 9. The final compaction report and certification from a Geotechnical Engineer shall contain the type of field testing performed. Each test shall be identified with the method of obtaining the in-place density, whether sand cone or drive ring and shall be so noted for each test. Sufficient maximum density determinations shall be performed to verify the accuracy of the maximum density curves used by the field technician.
- 10. Dust shall be controlled by watering.
- The location and protection of all utilities is the responsibility of the permitee.
- Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading process.
- 13. All public roadways must be cleared daily of all dirt, mud and debris deposited on them as a result of the grading operation. Cleaning is to be done to the satisfaction of the City Engineer.
- 14. The site shall be cleared and grubbed of all vegetation and deleterious matter prior to grading.
- 15. The contractor shall provide shoring in accordance with OSHA requirements for trench walls.
- Aggregate base shall be compacted per the geotechnical report prepared for the project.
- 17. The recommendations in the following Geotechnical Engineering Report by GSH Geotechnical, Inc. are included in the requirements of grading and site Preparation. The Report is titled "Geotechnical Study Proposed Ridley's Family Market Development Northeast Corner of the Intersection of Main Street and 400 East Street Santaquin, Utah"

Project No.: 2588-001-18 Dated: April 26, 2018

- 18. As part of the construction documents, owner has provided contractor with a topographic survey performed by manual or aerial means. Such survey was prepared for project design purposes and is provided to the contractor as a courtesy. It is expressly understood that such survey may not accurately reflect existing topographic conditions.
- 19. If Contractor observes evidence of hazardous materials or contaminated soils he shall immediately contact the project engineer to provide notification and obtain direction before proceeding with disturbance of said materials or contaminated soil.

Curb and Gutter Construction Notes:

- Open face gutter shall be constructed where drainage is directed away from curb.
- 1 2. Open face gutter locations are indicated by shading and notes on the grading plan.
 - It is the responsibility of the surveyor to adjust top of asphalt grades to top of curb grades at the time of construction staking.
- Refer to the typical details for standard and open face curb and gutter dimensions.
- Transitions from open face to standard curb and gutter are to be smooth. Hand form these areas if necessary.
- Spot elevations are shown on this plan with text masking. Coordinate and verify site information with project drawings.

Sidewalk Construction Notes:

- Concrete sidewalk shall be constructed with a cross slope of 1.5% (2.08% Maximum) unless shown otherwise on plan.
- Running slope of sidewalks shall be built per grades shown on the plan.
 where grades are not provided, sidewalks shall be constructed with a
 maximum running slope of 4.5%
- 3. Refer to the Site Plan for sidewalk dimensions.



Drafted by: JD

Client Name:

Ridley's Family Markets

Designed by: SY

20-112 GR



Retail (

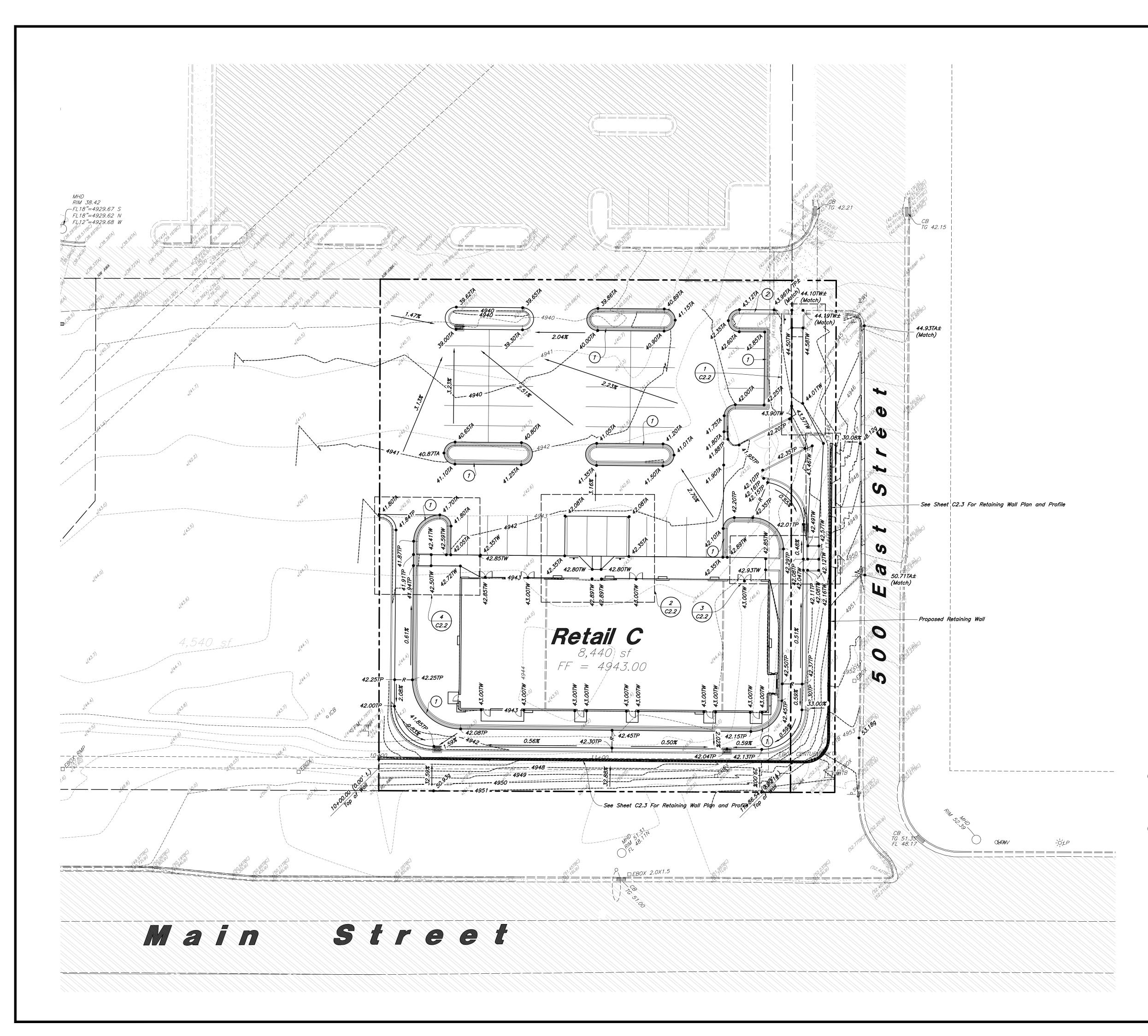
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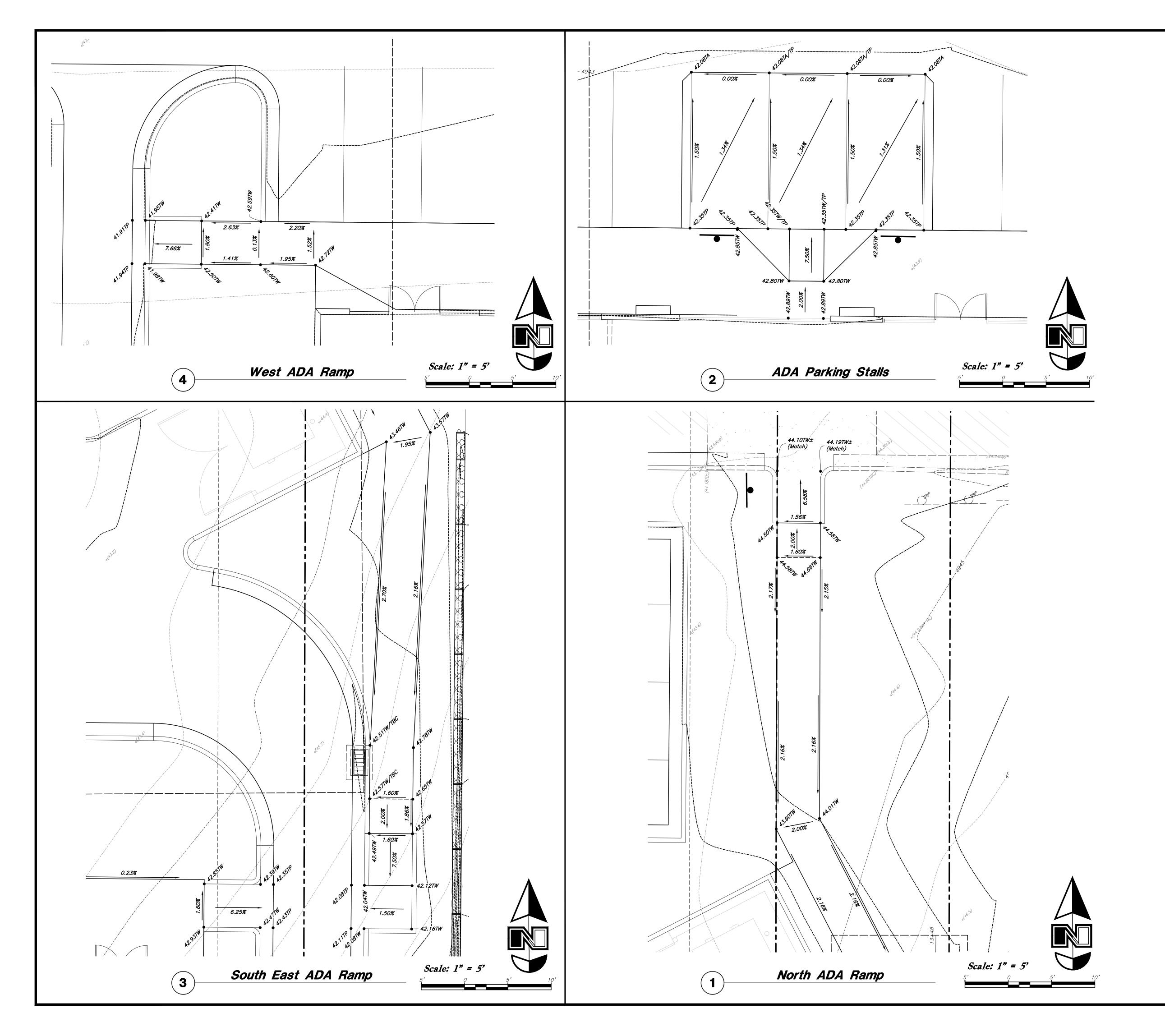
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11 Sep, 2020

G2.1





Designed by: SY Drafted by: JD

Client Name: Ridley's Family Markets

20-112 GR

Retail

Santaquin 400 East and Main St

Acces

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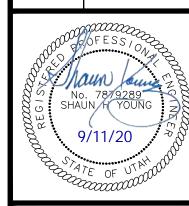
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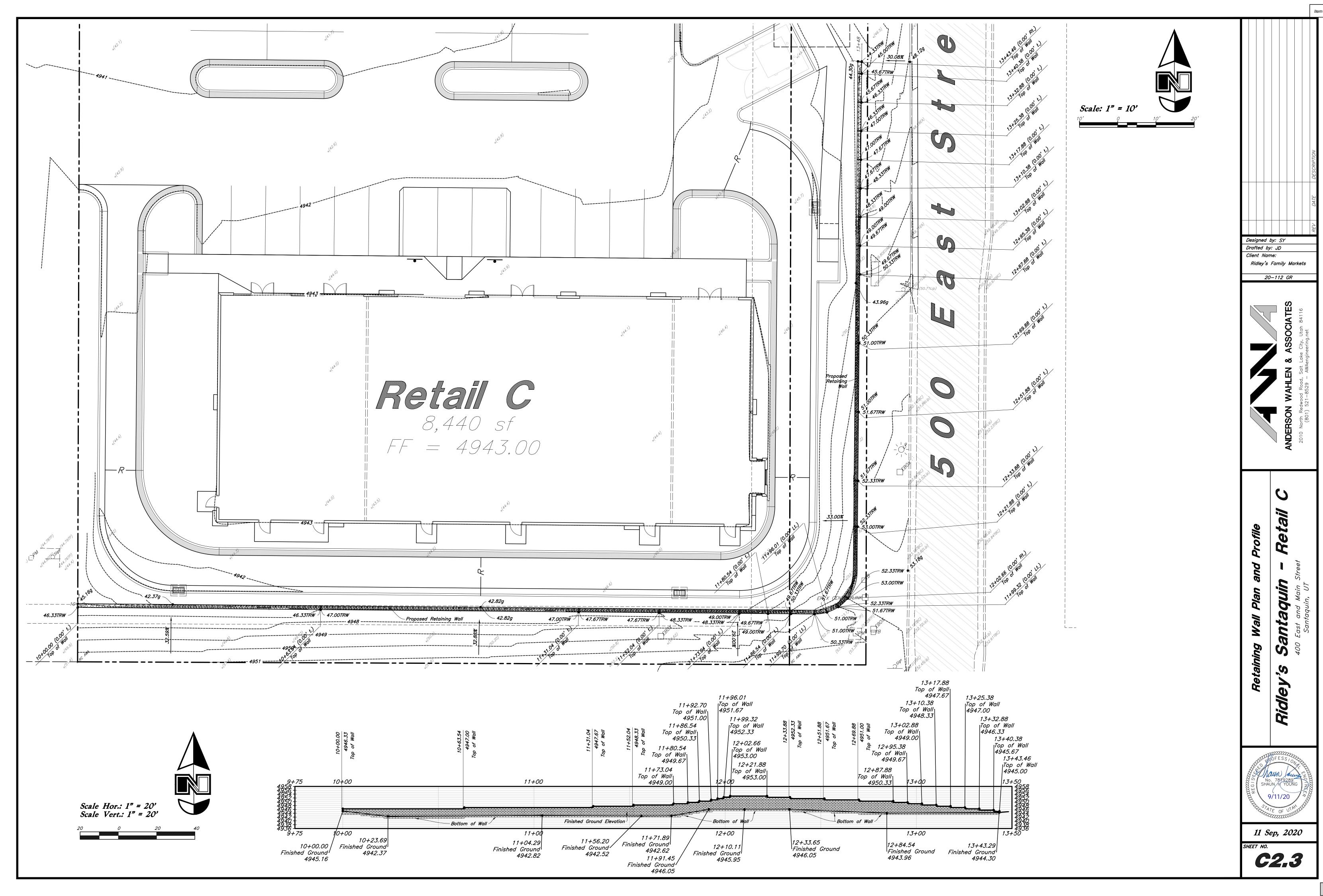
Accessibility Note:

Contractor must maintain a running slope on Accessible routes no steeper than 5.0% (1:20). The cross slope for routes no steeper than 5.0% (1:20). The cross slope for Accessible routes must be no steeper than 2.0% (1:50). All Accessible routes must have a minimum clear width of 36". If Grades on plans do not meet this requirement notify Consultant immediately.

The Client, Contractor and Subcontractor should immediately notify the Consultant of any conditions of the project that they believe do not comply with the current state of Accessible and Usable Buildings and Facilities (ICC/ANSI A117.1—Latest Edition) and/or FHAA.

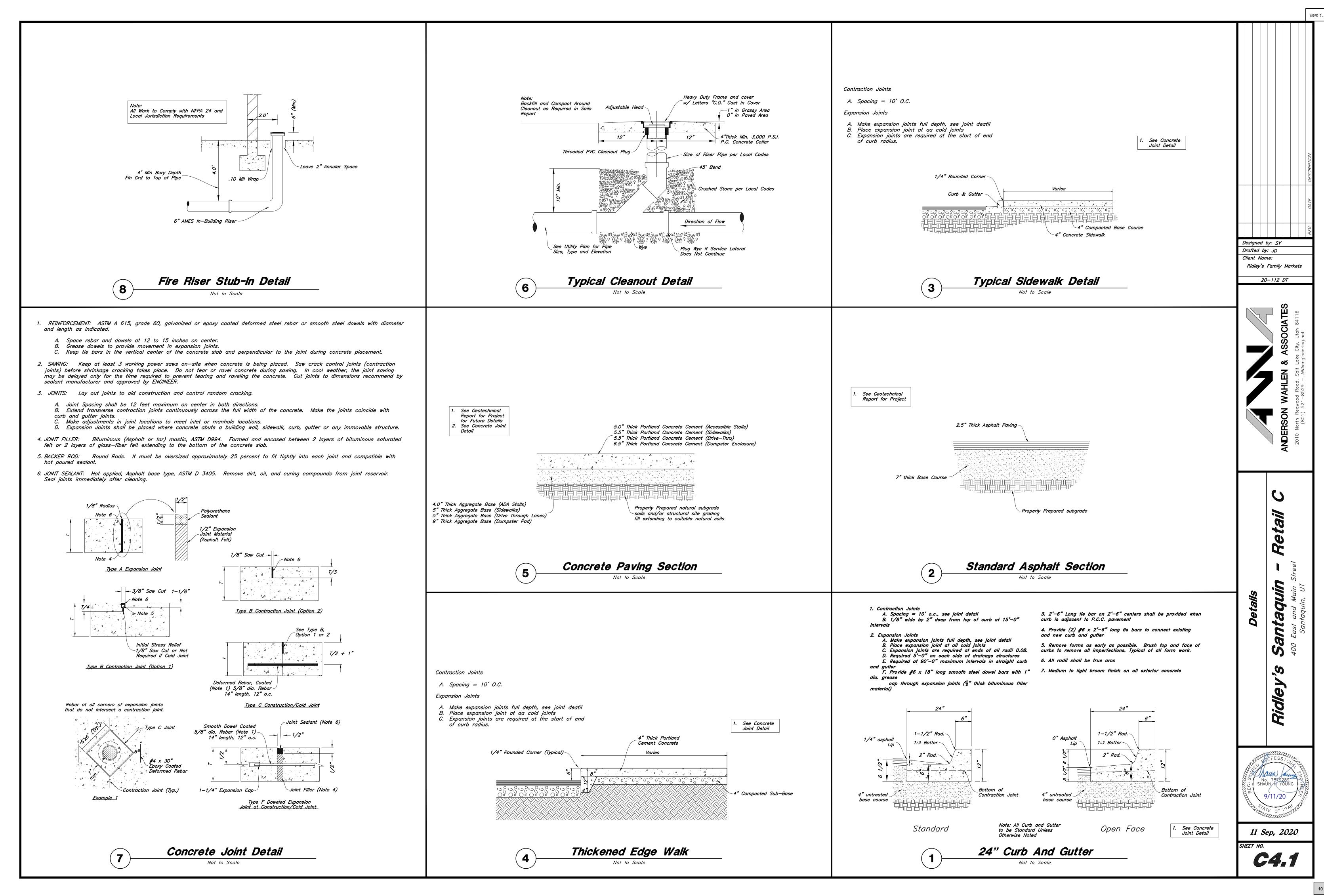


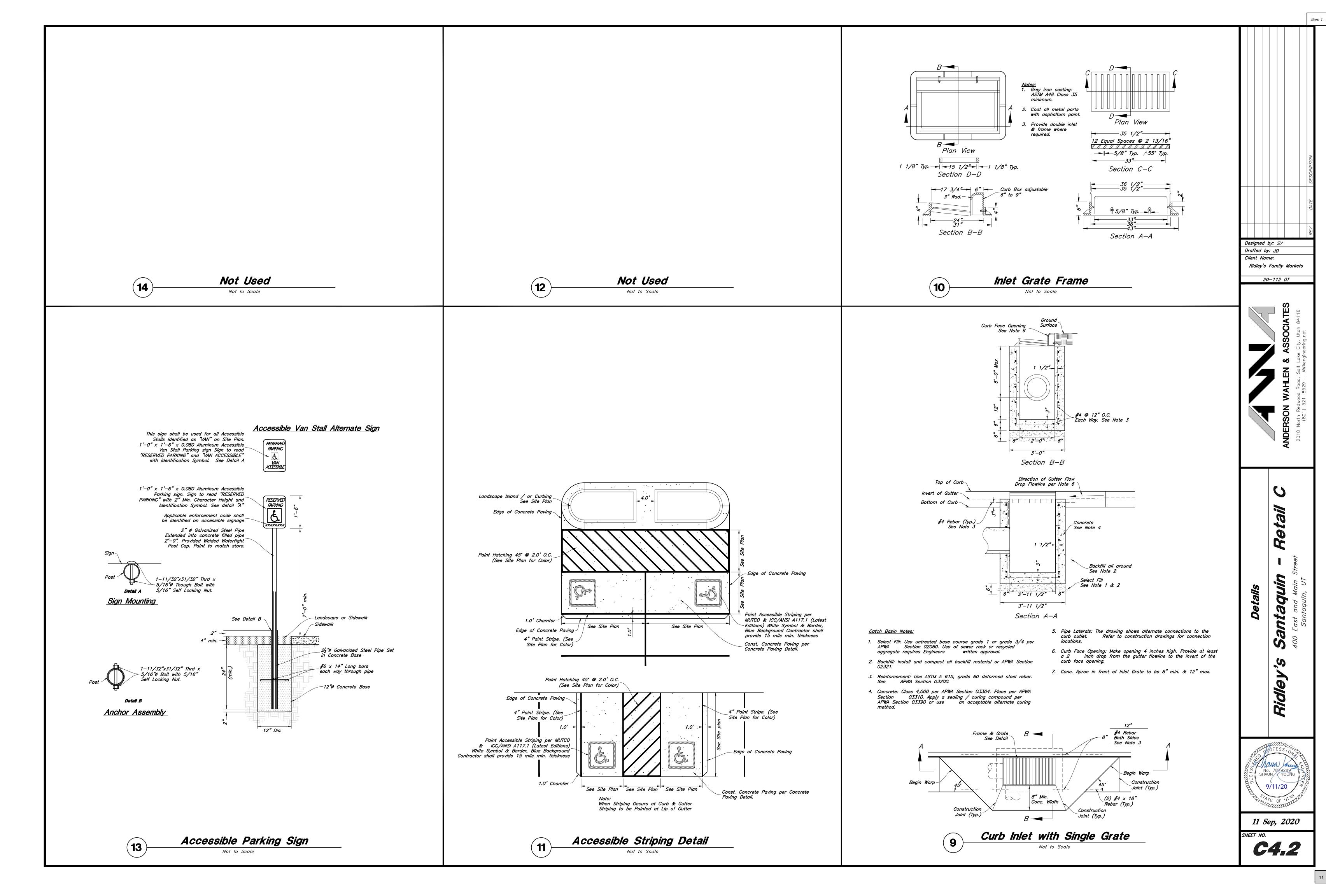
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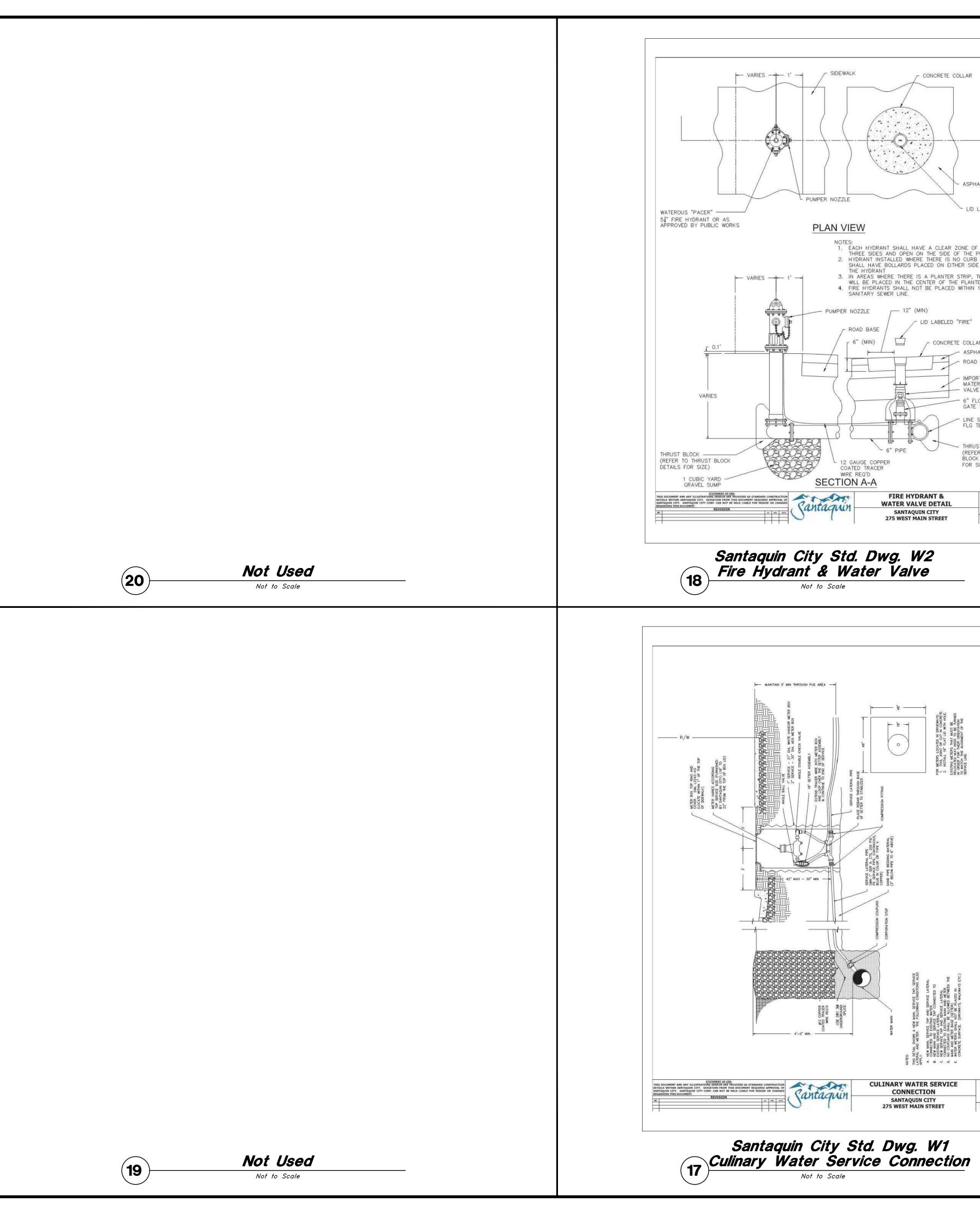


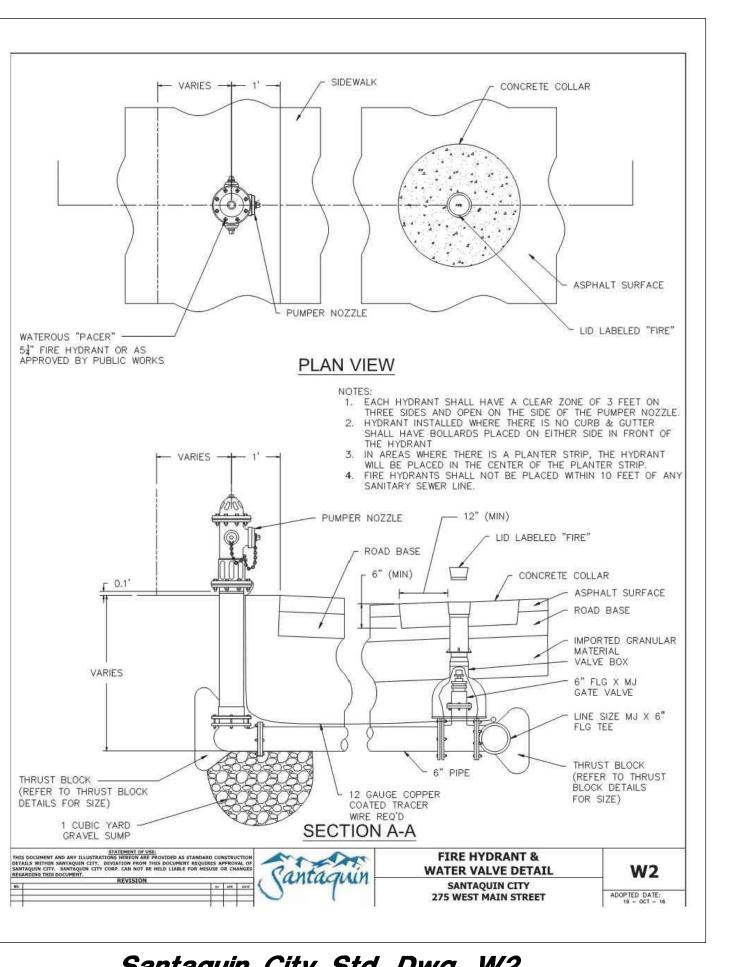
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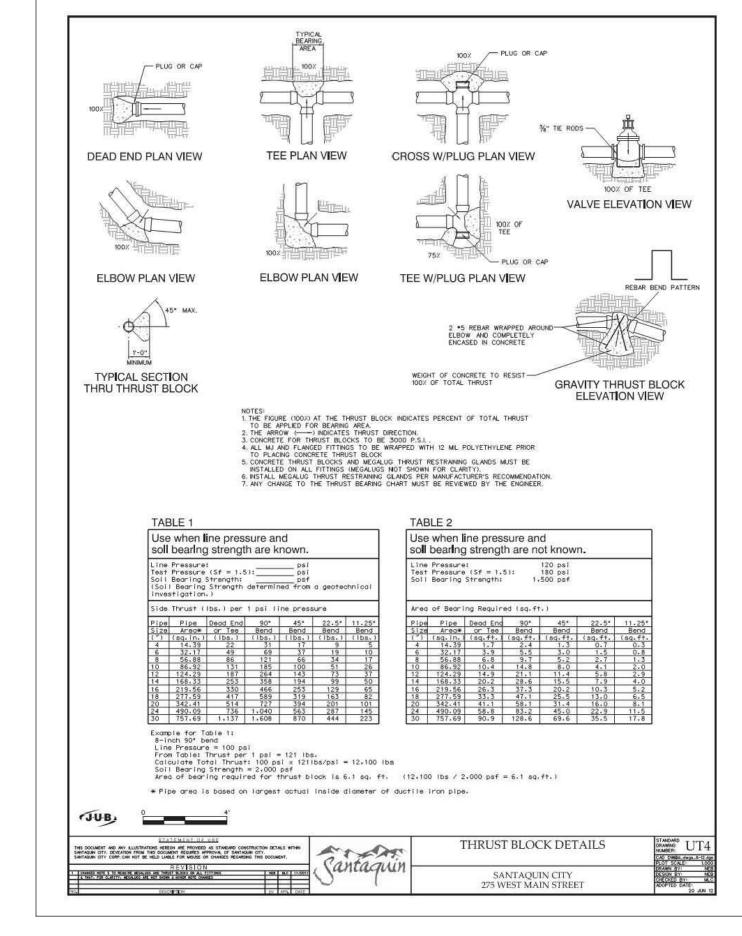
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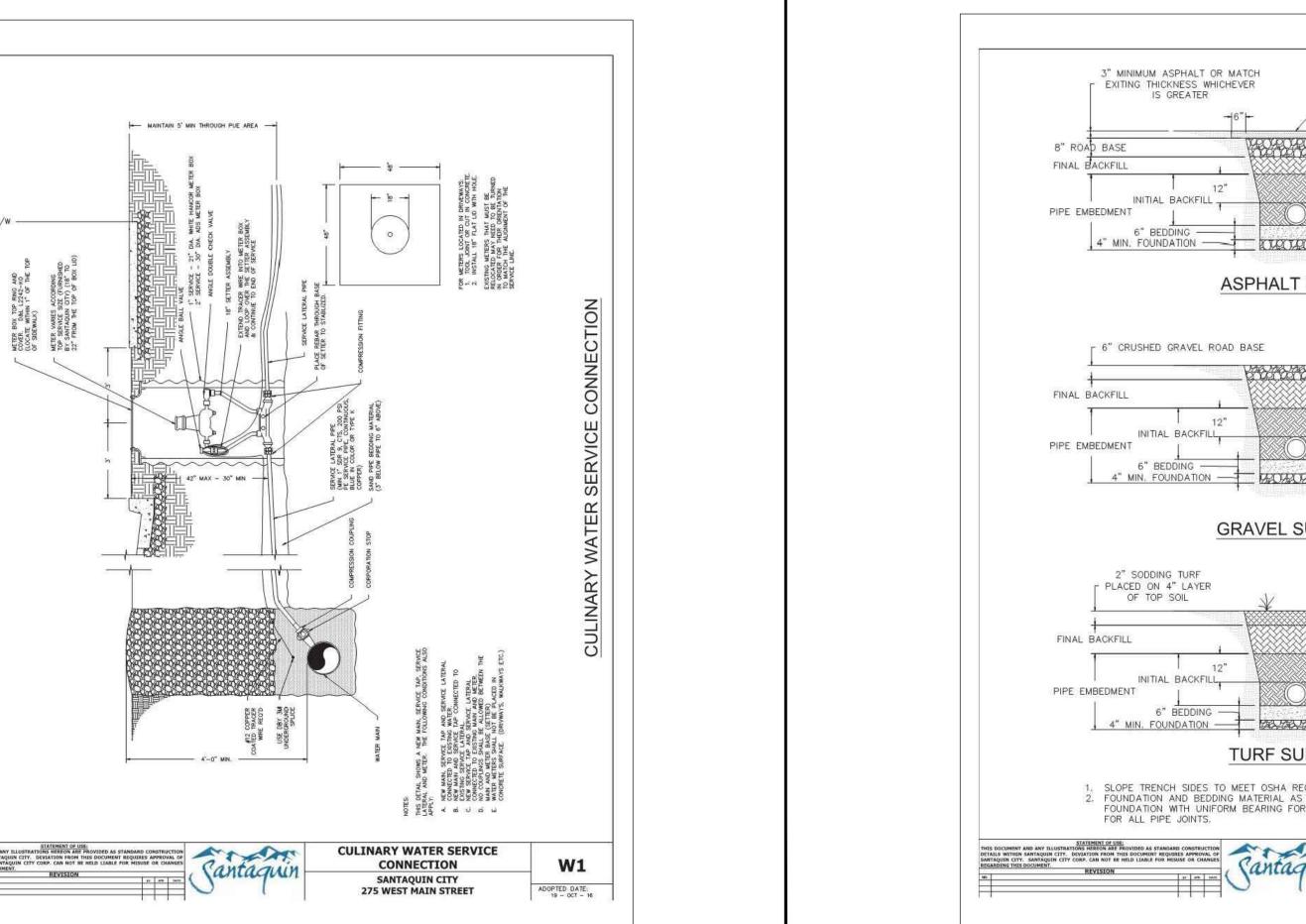


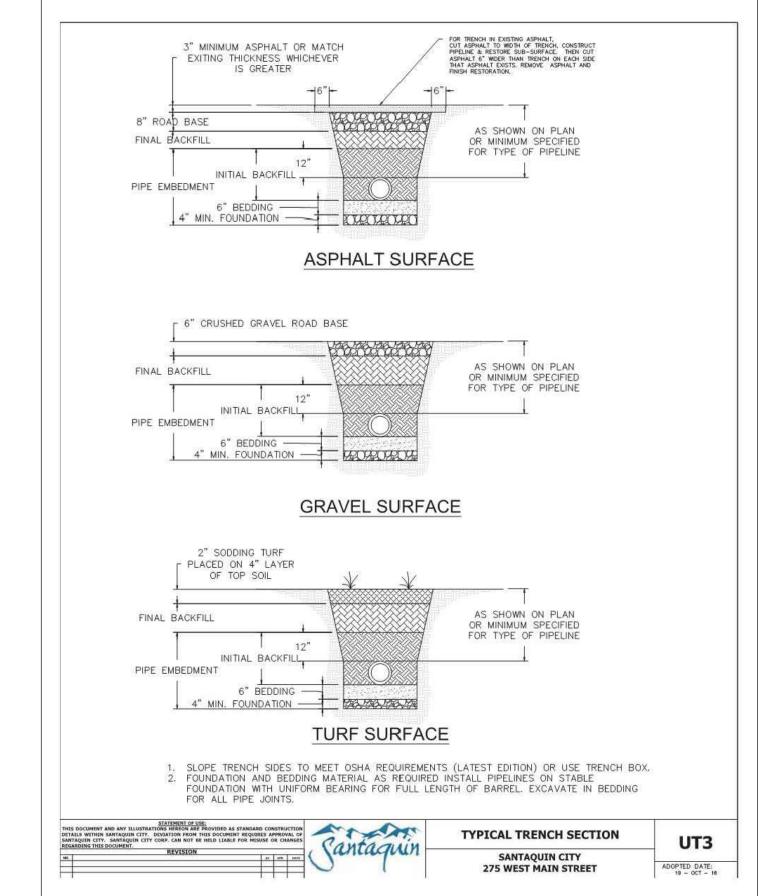






Santaquin City Std. Dwg. UT4 Thrust Block Details Not to Scale



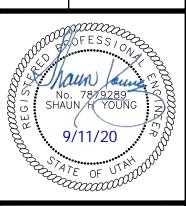


Santaquin City Std. Dwg. UT3 Typical Trench Section 15

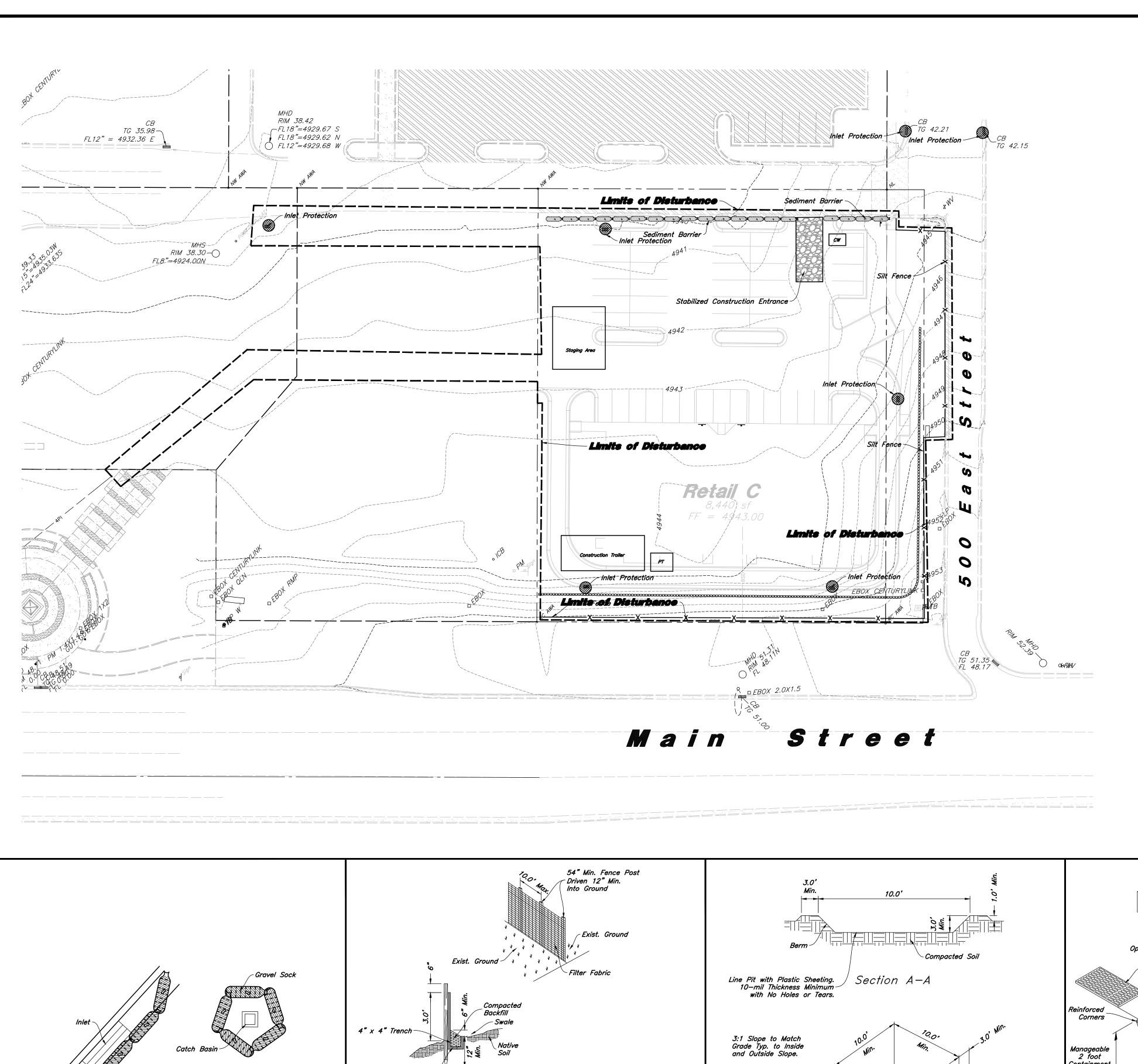
Designed by: SY Drafted by: JD Client Name: Ridley's Family Markets 20-112 DT

Item 1.

Santaquin 400 Fact



11 Sep, 2020



Legend

Place Inlet Protection at all Inlet Locations to prevent boxes from silting. Silt Fence

Limit of Disturbance Construction Entrance / Truck Wash (50'x24' Min.)

—X—

---*78---*

CW Concrete Washout Area PT Portable Toilet

Sediment Barrier Existing Contour ---78_-/ Existing Spot o(78.00TA)

Erosion Control Notes

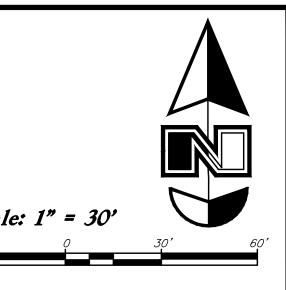
Proposed Contour

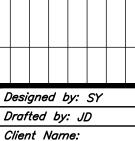
- Storm water will be discharged into an existing drainage system. Existing Lines shall be inspected prior to Certificate of Occupancy and cleaned if necessary.
- 2. The Storm Water Prevention Plan shall conform to all State Division of Environmental Protection Regulations.
- 3. All Construction equipment will enter thru Designated Construction Entrances.
- 4. Coordinate Entrance locations with the local jurisdiction.
- 5. Inlet Protection Devices and Barriers shall be Repaired or Replaced if they Show Signs of Undermining or Deterioration.
- Silt Fences shall be Repaired to their Original Conditions if Damaged, Sediment shall be Removed from Silt Fences when it Reaches one—half the Height of the Silt Fence.
- Public Right—of—Way. This may Require Periodic Top Dressing of the Construction Entrances as Conditions Demand. 8. All Materials Spilled, Dropped, Washed or Tracked from Vehicles onto Roadways or into Storm Drains must be Removed Immediately.

Condition which will Prevent Tracking or Flow of Mud onto

7. The Construction Entrances shall be Maintained in a

- 9. Due to the Grade Changes During the Development of the Project, the Contractor shall be Responsible for Adjusting the Erosion Control Measures (Silt Fences, Inlet Protection, Etc...) to Prevent Erosion.
- 10. Contractor shall use Vehicle Tracking Control at all Locations where Vehicles will Enter or Exit the Site. Control Facilities will be Maintained while Construction is in Progress, Moved when Necessary and Removed when the Site is Paved.
- 11. Inlet Protection Devices shall be Installed Immediately upon Individual Inlets becoming Functional.
- 12. This Document is Fluid Allowing for Changes, Modifications, Updates and Alternatives. It is the Responsibility of the Contractor to Keep Record of all Alterations made to the Erosion Control Measures Implemented for the Project on this Plan and in the Storm Water Pollution Prevention Plan.
- 13. Cover Exposed stockpiles of soils, construction and
- 14. Re-vegetate areas where landscaping has died or not taken
- 15. Divert storm water runoff around disturbed soils with berms or dirt swales.
- 16. Contractor to provide permanent stabilization to any areas disturbed by construction by hydroseeding native vegetation (if not otherwise stabilized).
- 17. Contractor is responsible for obtaining a fugitive dust control permit through the Division of Air Quality. All responsibilities relating to the production of the dust control plan shall be the responsibility of the Contractor.





Client Name: Ridley's Family Markets 20-112 EC

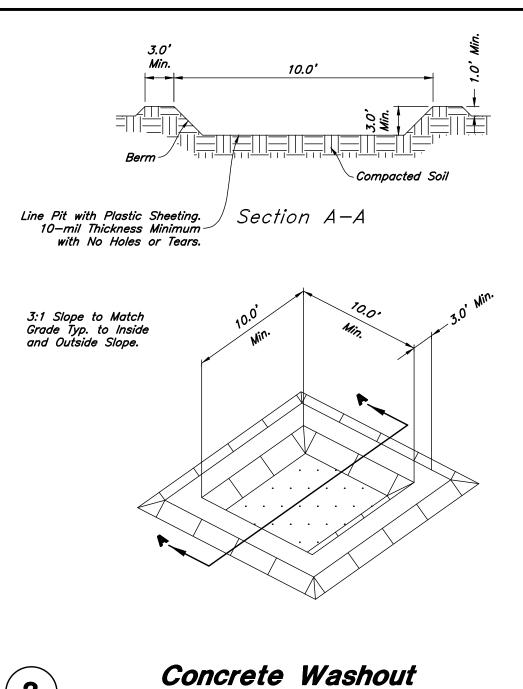
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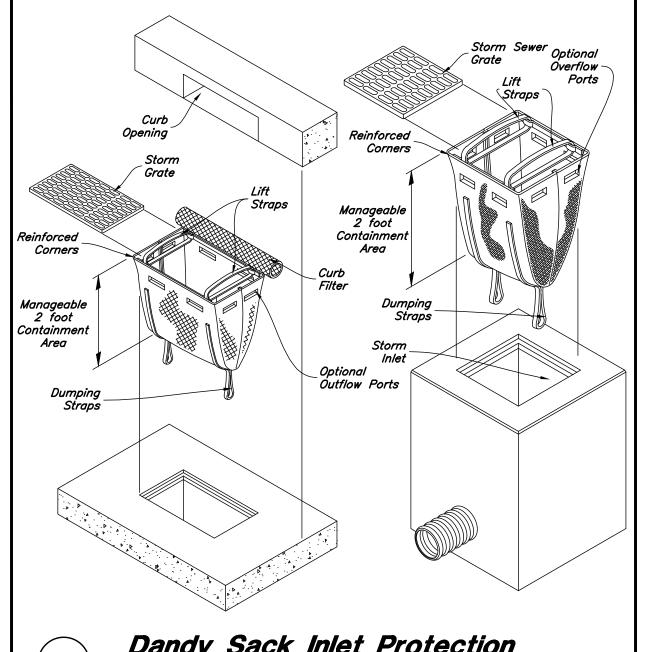
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11 Sep, 2020

C5.1

Embedded Filter Fabric Min. of 8" into Ground Posts: Steel Either T or U Type or 2"x2" Hardwood Filter Fabric: 1. MIRAFI 140N 2. Dupont TYPAR 3341 3. or Approved Equal 1. Filter cloth to be fastened securely to fence posts with wire ties or staples. 3. Collected material shall be removed when "bulges" develop in the silt fence. Sediment Barrier







Stabilized Construction Entrance

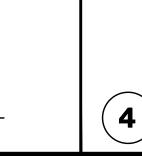
Not to Scale

50.0' Min.

4" to 6" Coarse Aggregate

5:1 Slope ___ 3'|-__ 5:1 Slope

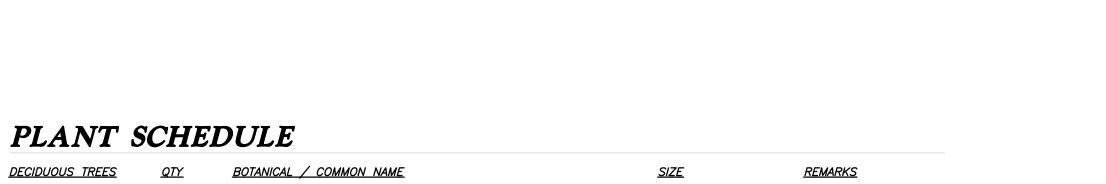
Existing Pavement



Not to Scale

Silt Fence Section Not to Scale

Not to Scale



DECIDUOUS TREES	<u>QTY</u>	BOTANICAL / COMMON NAME	<u>SIZE</u>	<u>REMARKS</u>
	8	Zelkova serrata 'Musashino' / Musashino Zelkova	2" Cal. / 8–10° Ht.	45' Ht. / 15' Spr.
EVERGREEN TREES	<u>QTY</u>	BOTANICAL / COMMON NAME	<u>SIZE</u>	<u>REMARKS</u>
O	1	Picea pungens 'Hoopsii' / Hoopsi Blue Spruce	6–8° Ht.	12' Ht. / 35' Spr.
ORNAMENTAL GRASSES	<u>QTY</u>	BOTANICAL / COMMON NAME	<u>SIZE</u>	<u>REMARKS</u>
₹ [*] **	11	Calamagrostis x a. 'Karl Foerster' / Feather Grass	1 gal	48" Ht. / 30" Spr.
\bigoplus	4	Helictotrichon sempervirens 'Sapphire' / Blue Oat Grass	5 gal	30" Ht. / 30" Spr.
<u>DECIDUOUS SHRUB</u>	<u>QTY</u>	BOTANICAL / COMMON NAME	<u>SIZE</u>	<u>REMARKS</u>
	17	Prunus x cistena / Purple Leaf Sand Cherry	5 gal	60" Ht. / 50" Spr.
+	8	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac	5 gal	20" Ht. / 60" Spr.
	23	Rhus typhina 'Tiger Eyes' / Tiger Eyes Sumac	5 gal	60" Ht. / 60" Spr.
	11	Ribes alpinum 'Green Mound' / Green Mound Alpine Currant	5 gal	36" Ht. / 30" Spr.
Short State of the	6	Rosa Meidiland series 'Red' / Red Meidiland Rose	5 gal	24" Ht. / 36" Spr.
	28	Spiraea x bumalda 'Goldflame' / Goldflame Spirea	5 gal	26" Ht. / 26" Spr.
EVERGREEN SHRUB	<u>QTY</u>	BOTANICAL / COMMON NAME	<u>SIZE</u>	<u>REMARKS</u>
6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15	Buxus microphylla 'Wintergreen' / Wintergreen Boxwood	5 gal	24" Ht. / 24" Spr.
	30	Juniperus horizontalis 'Bar Harbor' / Bar Harbor Creeping Juniper	5 gal	8" Ht. / 48" Spr.
\otimes	6	Picea pungens 'Globosa' / Dwarf Globe Blue Spruce	5 gal	30" Ht. / 36" Spr.
\bigcirc	5	Pinus mugo 'Slowmound' / Mugo Pine	5 gal	30" Ht. / 36" Spr.
<u>LAWN</u>	QTY	BOTANICAL / COMMON NAME	<u>TYPE</u>	<u>REMARKS</u>
v v v	1,654 sf	Poa pratensis / Kentucky Bluegrass Blend	sod	Detail: 4/L3.1

Landscape Data

Site Area = 47,685 s.f. (1.09 ac.) Landscape Area Required = 4,769 s.f. (10%) Landscape Area Provided = 11,234 s.f s.f. (24%) Store Parking Provided = 41 stalls Parking Area = 15,944 s.f.

Landscape Parking Required = 1,594 s.f. (10%)

Landscape Parking Provided = 1,754 s.f. (11%)

Landscape Notes:

- 1. All Landscape Material Shall be Fully Irrigated by an Automatic Irrigation System. Drip for Shrub Areas and Spray for Lawn Areas. See Irrigation Sheets L2.1 for Layout and Sheet L3.1 for
- 2. Adjust Landscape Material as Needed to Allow Access to all New and Existing Utilities. Irrigation Components Shall be Spaced Between Plant Material to Allow Easy Access for Maintenance.
- 3. All Areas Disturbed by Construction Shall be Landscaped and Not Left Undone.
- 4. No Edging Shall be Used Between Different Stone. Provide a Nice Clean Smooth Flowing Defined Line Between Stone.

MATERIAL SCHEDULE

<u>Comments</u> Decorative Stone #1 - Install a (3) Three Inch Depth over Dewitt Pro5 Weed Barrier; Stone Shall be Used in Shrub Planters Where Shown on Plan; Stone Shall be Washed Prior to Installation; Stone Shall be 1 1/2" Dia. Detail: 4/L3.1 Crushed, Fractured Talon's Cove (Gray Color) Stone from Utah Landscape Rock (435–250–3851) Decorative Stone #2 - Install a (6) Six Inch Depth over Dewitt Pro5 Weed Barrier; Stone Shall be Used in

Shrub Planters Where Shown on Plan; Stone Shall be Washed Prior to Installation; Stone Shall be 2-4" Dia. Crushed, Fractured Stone from Staker Parson Copper Canyon Pit (385-239-0804); Stone Shall Match Store Color Stone; Interlock and Secure Stone on Steep Slopes

4" x 6" Landscape Concrete Curbing - Install Flush to all Concrete Edges between Lawn and Planting Areas; Curbing Shall be Continuous; Adjust Curbing as Needed to Avoid Existing and New Utilities.

Landscape Keynotes

- $\langle 1 \rangle$ Install New Lawn
- Install Landscape Concrete Curbing New Retaining Wall - See Civil Plans
- New Water Meters See Utility Plan 5 Existing Lawn
- ⟨6⟩ Existing Shrub Planter
- $\langle 7 \rangle$ Existing Gravel Maintenance Road
- (8) Existing Street Tree
- Provide Nice Clean Eage Document
 New Landscape and Undeveloped Lot
- Irrigation Water Meter and Connection See Irrigation Plan for More Detail

UT - Existing/New Utility Box or Manhole

General Landscape Notes:

- Plant material quantities are provided for bidding purposes only. It is the contractors responsibility to verify all quantities listed on the plans and the availability of all plant materials and their specified sizes prior to submitting a bid. The contractor must notify the Landscape Architect prior to submitting a bid if the contractor determines a quantity deficiency or availability problem with specified material. The contractor shall provide sufficient quantities of plants equal to the symbol count or to fill the area shown on the plan using the specified spacing. Plans take precedence over plant schedule quantities.
- 2. Contractor shall call Blue Stake before excavation for plant material.
- 3. Prior to construction, the contractor shall be responsible for locating all underground utilities and shall avoid damage to all utilities during the course of the work. It shall be the responsibility of the contractor to protect all utility lines during the construction period, and repair any and all damage to utilities, structures, site appurtenances, etc. which occurs as a result of the landscape construction.
- 4. The landscape contractor shall examine the site conditions under which the work is to be performed and notify the general contractor in writing of unsatisfactory conditions. Do not proceed until conditions
- 5. The contractor shall provide all materials, labor and equipment required for the proper completion of all landscape work as specified and shown on the drawings.
- 6. See civil and architectural drawings for all structures, hardscape, grading, and drainage information.
- 7. Contractor safety and cleanup must meet OSHA standards at all times. All contractors must have adequate liability, personnel injury and property damage insurance. Clean-up must be performed daily, and all hardscape areas must be washed free of dirt and mud on final cleanup. Construction must
- 8. All new plant material shall conform to the minimum guidelines established by the American Standard for Nursery Stock Published by the American Association of Nurseryman, Inc. In addition, all new plant material shall be of specimen quality.
- 9. The Owner/Landscape Architect has the right to reject any and all plant material not conforming to the plans and specifications.
- 10. Any proposed substitutions of plant species shall be made with plants of equivalent overall form, height, branching habit, flower, leaf, color, fruit and culture only as approved by the Landscape Architect.

- 11. It is the contractors responsibility to furnish all plant materials free of pests or plant diseases. It is the contractor's obligation to maintain and warranty all plant materials.
- 12. The contractor shall take all necessary scheduling and other precautions to avoid winter, climatic, wildlife, or other damage to plants. The contractor shall install the appropriate plants at the appropriate time to guarantee life of plants
- 13. The contractor shall install all landscape material per plan, notes and details.
- 14. All existing and relocated trees shall be properly protected. Trees damaged during construction shall be replaced at no cost to the owner.
- 15. Plant names are abbreviated on the drawings, see plant Ischedule for symbols, abbreviations, botanical, common names, sizes, estimated quantities and remarks.
- 16. No grading or soil placement shall be undertaken when soils are wet or frozen.
- 17. Existing topsoil to be stripped and stockpiled for landscape use. Contractor shall verify existing topsoil amounts and quality with the general contractor. The landscape contractor shall perform a soil test on existing and imported topsoil and amend per soil test recommendations. Soil test to be done by certified soil testing agency. Provide new imported topsoil as needed from a local source. Imported topsoil must be a premium quality dark sandy loam, free of rocks, clods, roots, and plant matter. Topsoil to be installed in all landscaping areas.
- 18. Prior to placement of topsoil in all landscaping areas, all subgrade areas shall be loosened by scarifying the soil to a depth of 6 inches in order to create a transition layer between existing and new soils.
- 19. Provide a 12" depth of stockpiled or imported topsoil in parking islands and an 8 inch depth in all
- 20. All plant material holes shall be dug twice the diameter of the rootball and 6 inches deeper. Excavated material shall be removed from the site and replaced with plant backfill mixture. The top of the root balls, shall be planted flush with the finish grade.
- 21. Plant backfill mix shall be composed of 3 parts topsoil to 1 part soil pep, and shall be mixed at the planting hole.Deep water all plant material immediately after planting. Add backfill mixture to depressions

22. All new plants to be balled and burlapped or container grown, unless otherwise noted on plant schedule. Container grown trees shall have the container cut and removed. Trees in ball and burlap shall have the strings, burlap or plastic cut and pulled away from the trunk exposing 1/3 of the root ball. For trees in wire baskets, cut and remove the wire basket.

Detail: 4/L3.1

- 23. Upon completion of planting operations, all landscape areas with trees, shrubs, and perennials, shall receive specified stone over Dewitt Pro5 Weed Barrier or equal. Stone shall be evenly spread on a carefully prepared grade free of weeds. The top of stone should be slightly below finish grade and
- 24. All deciduous trees shall be double staked per tree staking detail. It is the contractors responsibility to remove tree staking in a timely manner once staked trees have taken root. Deciduous tree ties to be V.I.T. Cinche Ties #CT32.
- 25. Install landscape concrete curbing between lawn and planting areas. Curbing shall be installed level and uniform and shall match top finish grades of concrete walks and curbs. See landscape concrete curbing
- 26. Provide a 4 inch depth of stockpiled or imported topsoil in all lawn areas.
- 27. Sod must be premium quality, evenly cut, established, healthy, weed and disease free, and from an approved source.
- 28. All lawn areas to have uniform grades by float raking. Prior to laying sod, apply a starter fertilizer at a rate recommended by the manufacturer. Sod must be laid with no gaps between pieces on a carefully prepared topsoil layer. Sod to be slightly below finish grade and concrete walks and curbing. The laid sod must be immediately watered after installation. Any burned areas will require replacement. Adjust sprinkler system to assure healthy green survival of the sod without water waste.
- 29. The contractor shall comply with all warranties and guarantees set forth by the Owner, and in no case shall that period be less than one year following the date of completion and final acceptance.



11 Sep, 2020

Designed by: SY

Drafted by: JD Client Name:

Ridley's Family Markets

20-112 LS

D

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Irrigation Across Drive

B-B-10 10-0

∖Isle a Part of Store Irrigation System (Typ.)

Do not proceed until conditions have been corrected.

not conforming to the plans and specifications.

adiust system.

3. The contractor shall provide all materials, labor and equipment required for the proper

4. See civil and architectural drawings for all structures, hardscape, grading, and drainage

5. Contractor safety and cleanup must meet OSHA standards at all times. All contractors

Clean-up must be performed daily, and all hardscape areas must be washed free of dirt and mud on final cleanup. Construction must occur in a timely manner.

manufactures requirements and specifications. The contractor is responsible for checking

state and local laws for all specified materials and workmanship. Substitutions must be

6. The Owner/Landscape Architect has the right to reject any and all irrigation material

approved by landscape architect. Provide owner and maintenance personnel with

instruction manual and all products data to operate, check, winterize, repair, and

9. Irrigation system guarantee for all materials and workmanship shall be one year from

backfilling depressions, and repairing freeze damage. Contractor must contact

the time of store opening or final project acceptance (whichever is longer). Guarantee

Landscape Architect to schedule pre and post guarantee inspection meetings. Failure to

do so will mean the official guarantee period has not been activated or de-activated.

will include, but is not limited to winterizing, spring activation, repair, trench setting,

must have adequate liability, personnel injury and property damage insurance.

7. The contractor shall install all irrigation material per plan, notes and details.

8. Irrigation system components must be premium quality only and installed to

completion of all irrigation work as specified and shown on the drawings.

IRRIGATION SCHEDULE

Matco-Norca 759

Rain Bird XBS-075

Rain Bird XQ-100

Rain Bird TS025

Rain Bird XB-20PC

Rain Bird DBC-025

Mueller Oriseal Mark II

Sprayheads / Rotors <u>Description</u> <u>Manufacturer/Model #</u> Adjust Radius Reduction Screws as Needed 4" Pop-Up Sprayhead with Adjustable Nozzle to Achieve Appropriate Radii Coverages Adiust Radius Reduction Screws as Needed 4" Pop-Up Rotor with Adjustable Nozzle Rain Bird 3504-PC to Achieve Appropriate Radii Coverages Valves 1 Inch Size; Install in Standard Valve Box Lawn Remote Control Valve Rain Bird 100-PESB with 3" Depth of Gravel over Weed Barrier; with Scrubber Technology Install with Water Proof Wire Connectors 1 Inch Size; Install in Standard Valve Box Rain Bird XCZ-100-PRB-COM Drip Remote Control Valve Kit with 3" Depth of Gravel over Weed Barrier; Install with Water Proof Wire Connectors 1 Inch Size; Install in 10" Round Valve Quick Coupler with Non-Potable Box with 3" Depth of Gravel over Weed Cover and Swing Joint

Weed Barrier and a Gravel Sump PVC Pipe To Drip Tubing Provide Connection Fittings Install 1" Feeder Line To All Drip Areas

Manual Drain Ball Valve

3/4" Distribution Tubing - Pipe shown on Plan is Schematic; Adjust as Needed 1/4" Distribution Tubing - Install one per Emitter Xeri-Bug Emitter (2 Gal/Hr.) - 1 per Perennial, 2 per Shrub/Ornamental Grass, 5 per Tree 5&9/L3.1 Tie Down Stake - Tubing to be Staked every 3' Diffuser Bug Cap — Install one per Emitter Removable Flush Cap — Install at the End of Each Line

3/4 Inch Size: Install at End of the

Mainline in a 10" Round Valve Box with

1 Inch Size: Install in 10" Round Valve

Box with Weed Barrier and Gravel Sump

1 Inch Size; See Plan for Locations;

See Plan for Location of Controller,

of Sleeving with the Installation of

Sleeving Shall be by the Landscape Contractor Unless Otherwise Noted

Coordinate Power Supply With Building

Contractor Shall Coordinate the Installation

Concrete Flatwork and Asphalt Paving; All 17/L3.1

Schedule 40 Fittings Shall be Used for

See Plan for Pipe Sizes; Pipes Unmarked

Shall be 1 Inch; Minimum Pipe Size Shall

Installed Underground

Mainline Components

Electrical Contractor

be 1 Inch for PVC Pipe

10/L3.1

11/L3.1

12/L3.1

Rain Bird MDCFCAP P.O.C. Components

1 Inch Size; Filter with 155 Mesh; Install in Regular Size Box with Weed Barrier and Amiad Tagline Canister Filter Secondary Water Filter 3" Depth of Clean Gravel; Filter Shall be

Stop and Waste Valve

Mainline Pipe

WIFI Module

Lateral Line Pipe

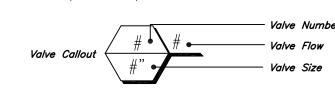
Pipes Schedule 40 PVC

Drip

Schedule 40 PVC Controller & Accessories

Rain Bird ESP4MEI Rain Bird ESPSM3 Rain Bird LNKWIFI

Sleeving Provide for Irr. Mainlines, Laterals, and Controller Wire Located Under Concrete and Asphalt Paving at Specified Depths



4 Base Station Indoor Controller

3 Station Expansion Module

Scale: 1" = 20'

General Irrigation Note

Main Service Line & Other Irrigation Components Are Shown In Paved Or Hardscape Surfaced For Clarity Purposes ONLY! Install All Irrigation Components within Landscaped Areas.

Irrigation Notes

- 1. See Sheet L1.1 for Plant Layout and Sheet L3.1
- 2. The City Reported a Static Pressure Range of 80-90 psi in the Area. Static Pressure of 80 psi.

- for Planting and Irrigation Details.
- was Used. Irrigation System was Designed for a Minimum of 47 psi.

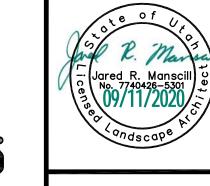
VALVE SCHEDULE

VALVE STATION	VALVE SIZE	IRRIGATION TYPE	FLOW (GPM)	PSI	PSI @ POC	PRECIP. RATE
1	1"	Lawn Area — Turf Spray	9.05	31.95	42.29	1.99 in/h
2	1"	Lawn Area — Turf Rotor	<i>8.75</i>	36.98	46.57	0.85 in/h
3	1 "	Shrub Area — Drip Emitters	3.70	<i>33.27</i>	<i>35.06</i>	0.47 in/h
4	1 "	Area for Drip Emitters	4.06	33.54	<i>35.62</i>	0.37 in/h
5	1 "	Area for Drip Emitters	4.13	<i>33.74</i>	<i>35.37</i>	0.56 in/h

- 18. Quick couplers shall be a Rain Bird 44-NP (Non-Potable Cover) with a 1 inch Lasco swing joint assembly. Support with rebar in each retainer lug. Install where shown on
- 19. Irrigation system backfill must occur only after system check is completed as specified. Use only rock free clean fill around pipes, valves, drains, or any irrigation system components. Water settle all trenches and excavations.
- 20. All irrigation pipe running through walls, under sidewalk, asphalt, or other hard surface shall be sleeved prior to paving. It is the irrigation contractors responsibility to coordinate sleeving with concrete and pavement contractors. Sleeves will be schedule 40 P.V.C. The depth for mainline sleeves shall be twenty-eight (28) inches minimum. Depth for lateral sleeves shall be sixteen (16) inches minimum. Sleeves shall be a minimum of two sizes larger than the pipe to be sleeved. All valve wiring shall be contained in separate sleeving.
- 21. Plans are diagrammatic and approximate due to scale. where possible, all piping is to be installed within the planting areas. No tees, ells, or changes in direction shall occur
- 22. It is the contractors responsibility to verify all quantities based upon the plan prior to completion of a construction cost estimate.
- 23. The irrigation contractor shall flush and adjust all sprinkler heads for optimum performance and to prevent possible overspray onto walks, roadways, and/or buildings as much as possible. This shall include selecting the best degree of arc to fit the site and to throttle the flow control of each valve to obtain the optimum operating pressure for each system. All mainlines shall be flushed prior to the installation of irrigation heads.
- 24. All sprinkler heads shall be set perpendicular to finish grade of the areas to be irrigated and shall be installed 6-8" from buildings walls, or within 4" of pavement, curbs, or header edges.
- tubing shall run under pavement.

- 26. Electrical power source at the controller location shall be provided by electrical contractor. Contractor shall verify location of controller prior to installation with owner.
- 27. Provide and install all manufacturer's recommended surge and lighting protection equipment on all controllers.
- 28. All lines shall slope to manual drains (see details). If field conditions necessitate additional drains, these drains shall be installed for complete drainage of the entire system. Provide a gravel sump under each drain. All drains shall be a minimum of 6" below grade.
- 29. Upon completion and approval of irrigation system, irrigation contractor to provide the owner with two sets of drawings indicating actual location of piping, valves, sprinkler heads, wiring, and zones.
- 30. An irrigation zone map shall be provided in a protective jacket and be kept with the main irrigation controller. The map shall show all approved irrigation and include all
- 31. It shall be the responsibility of the sprinkler contractor to demonstrate to the Owner the proper winterization and start-up procedures for the entire system prior to final

Know what's below. Call before you dig.



Designed by: SY

Drafted by: JD Client Name:

Ridley's Family Markets

20-112 IR

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Irrigation

11 Sep, 2020

L2.1

10. Irrigation system check must be done before the system is backfilled. Irrigation mainline and each control valve section must be flushed and pressure checked. Assure the complete system has no documented problems and full head to head coverage with adequate pressure for system operation. Adjust system to avoid spray on building, hardscape, and adjacent property. Any problems or plan discrepancies must be

11. Irrigation laterals must be schedule 40 P.V.C. with schedule 40 fittings. one (1) inch minimum size. Solvent weld all joints as per manufactures specifications for measured static p.s.i. Teflon tape all threaded fittings. The minimum depth of lateral lines shall be twelve (12) inches. Adapt system to manual compression air blowout.

12. Irrigation mainline that are 2" and smaller mainlines shall be schedule 40 PVC pipe with schedule 40 fittings. Solvent weld all joints as per manufactures specifications for measured static pressure. Use teflon tape on all threaded joints. Line depth must be twenty-four (24) inches minimum.

13. Install dielectric fittings whenever dissimilar metals are joined.

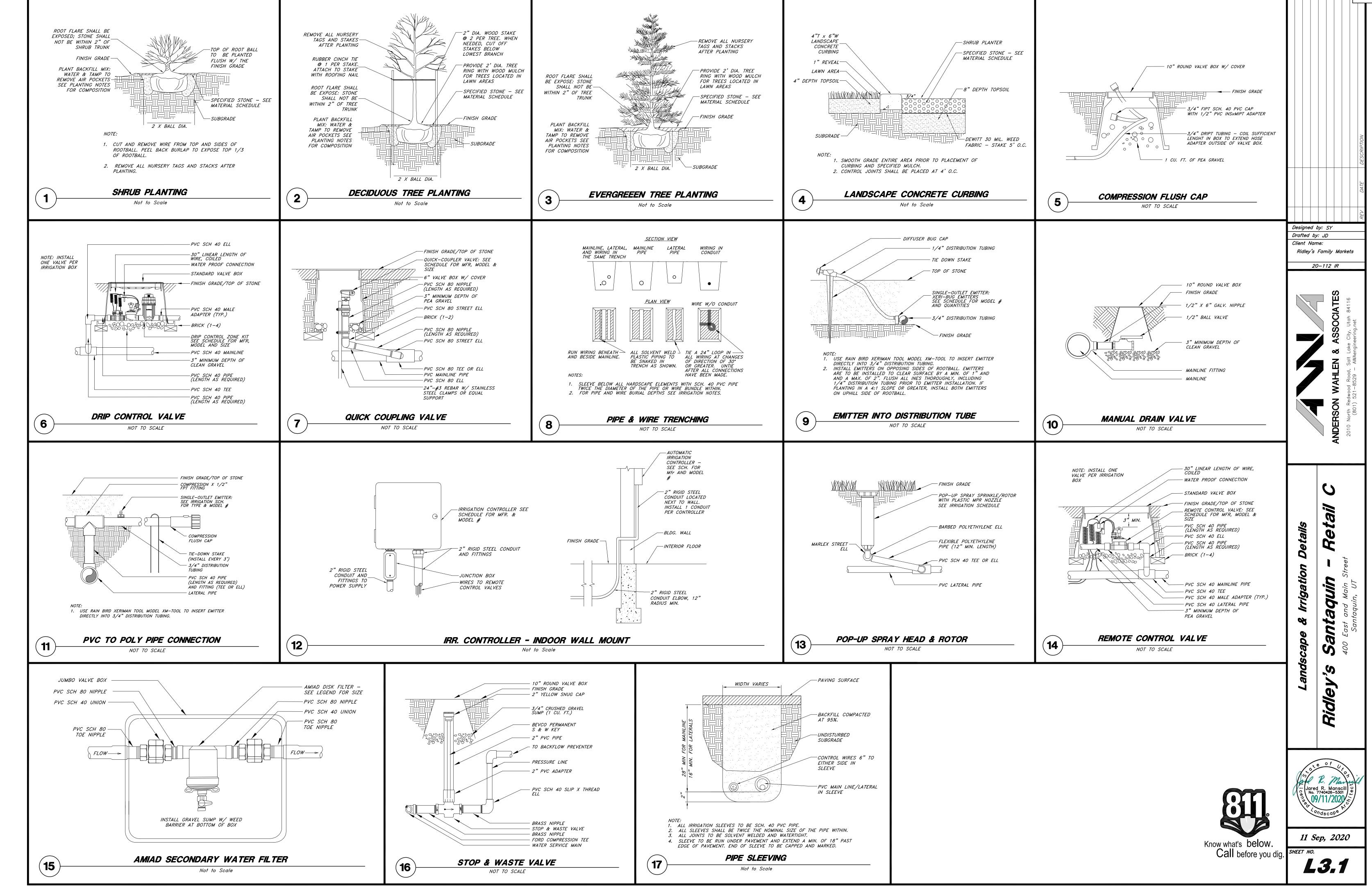
14. Design locations are approximate. Make minor adjustments necessary to avoid plantings and obstructions such as signs and light standards. Maintain 100(%) percent irrigation coverage of areas indicated.

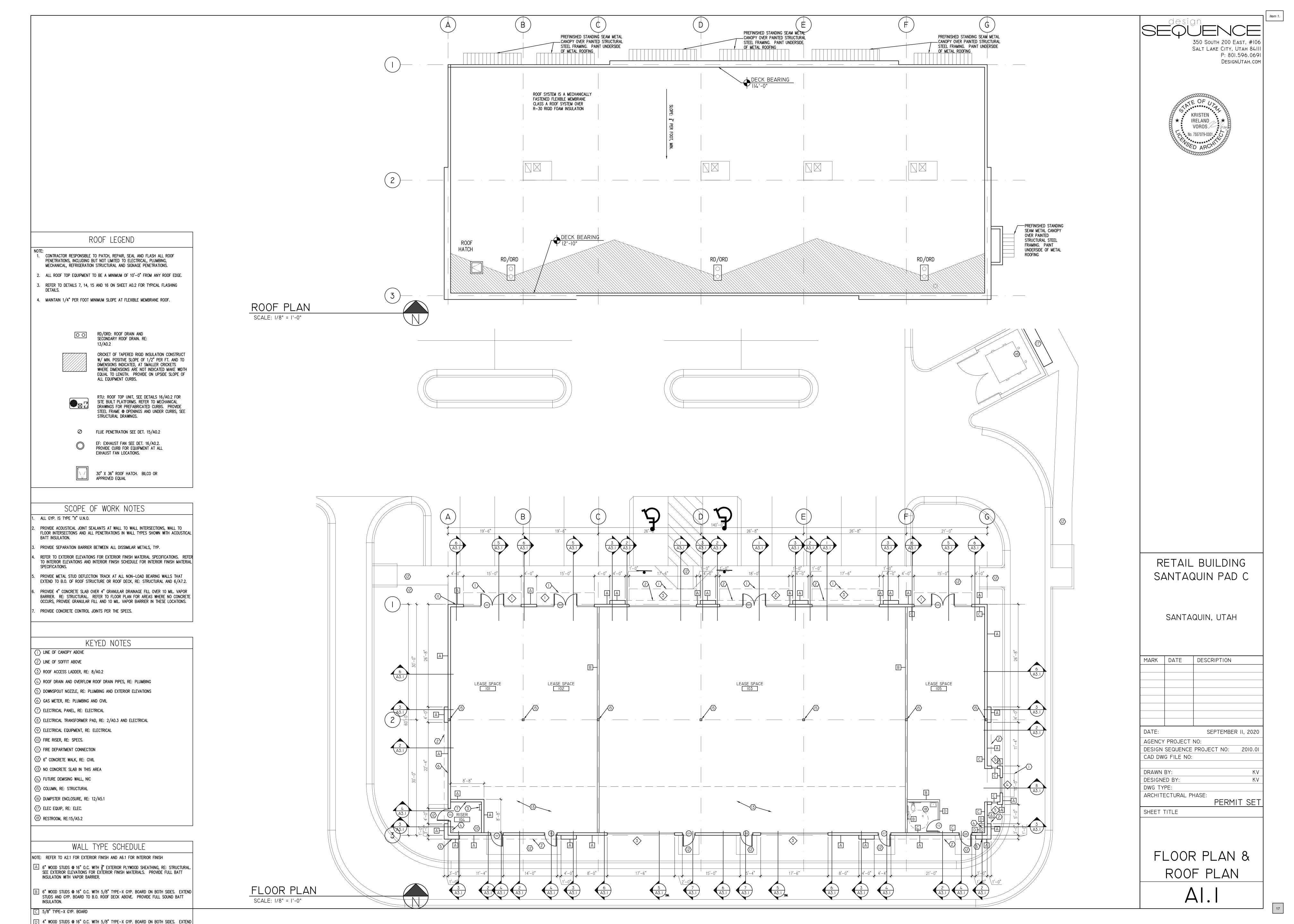
15. Controller valves to be grouped together wherever possible. Install valve boxes with long side perpendicular to walk, curb, lawn, building or landscape features. Valve boxes to conform with finish grades.

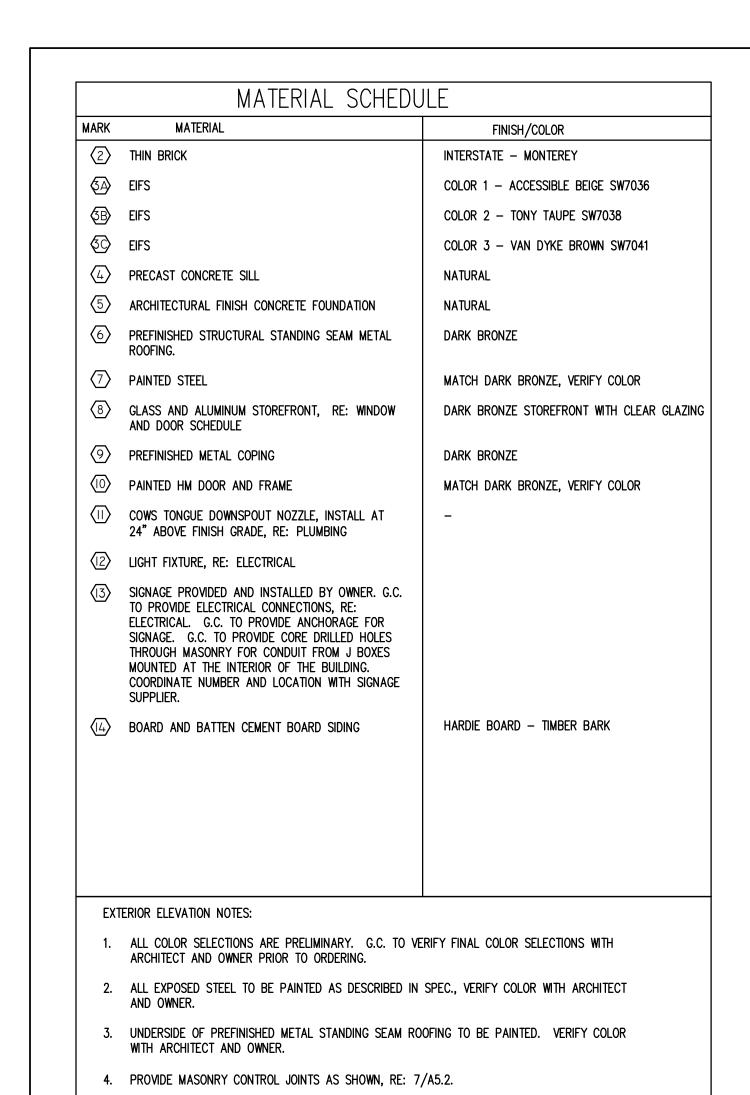
16. Control valve wire shall be #14 single conductor: white for common wire, red for hot wire and blue for the spare wire. Provide (2) two spare wire that runs the length of the mainline and to the controller. All wiring shall be UF-UL rated. All connections shall be made with water tight connectors (DBR/Y or equivalent) and contained in control valve boxes. Provide 36" extra wire length at each remote control valve in valve box. Install control wiring with main service line where possible. Provide slack in control wires at all changes in direction.

17. Control valve size, type, quantity, and location to be approved by landscape architect. install in heavy duty plastic vandal proof box. Size boxes according to valve type and size for ease of maintenance and repair. Install one (1) cubic feet of pea gravel for sump in base of boxes. Boxes to be Carson Brooks or equal.

25. Drip system piping shall consist of a rigid schedule 40 PVC pipe distribution system connecting drip irrigated planter areas. Poly tubing or drip line shall be run off the rigid PVC in each planting area or island with a PVC to poly tubing adapter. No poly

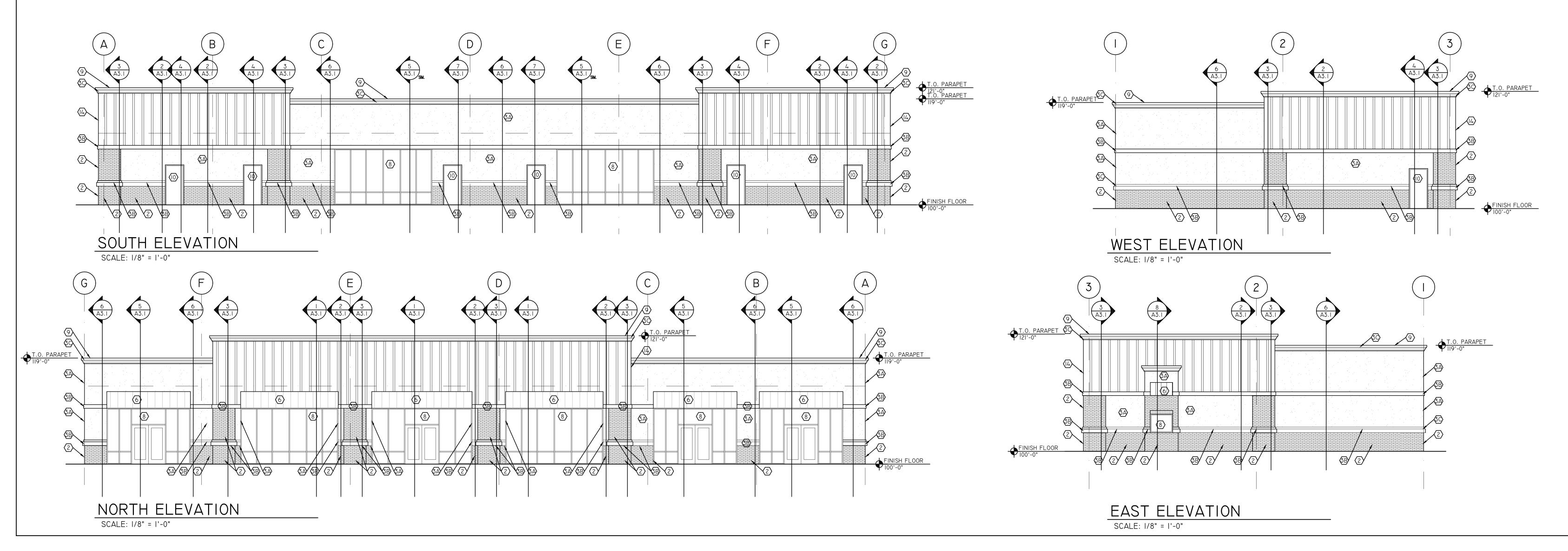


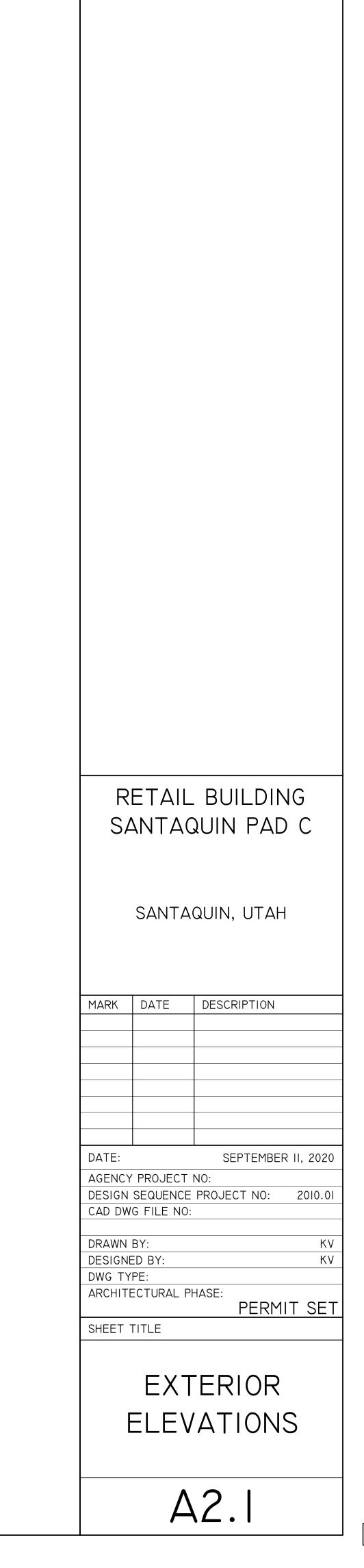




5. PROVIDE COLORED MORTAR AT CMU AND BRICK. COLOR TO BE SELECTED BY THE ARCHITECT

FROM THE MANUFACTURERS FULL LINE OF COLORS.





Item 1.

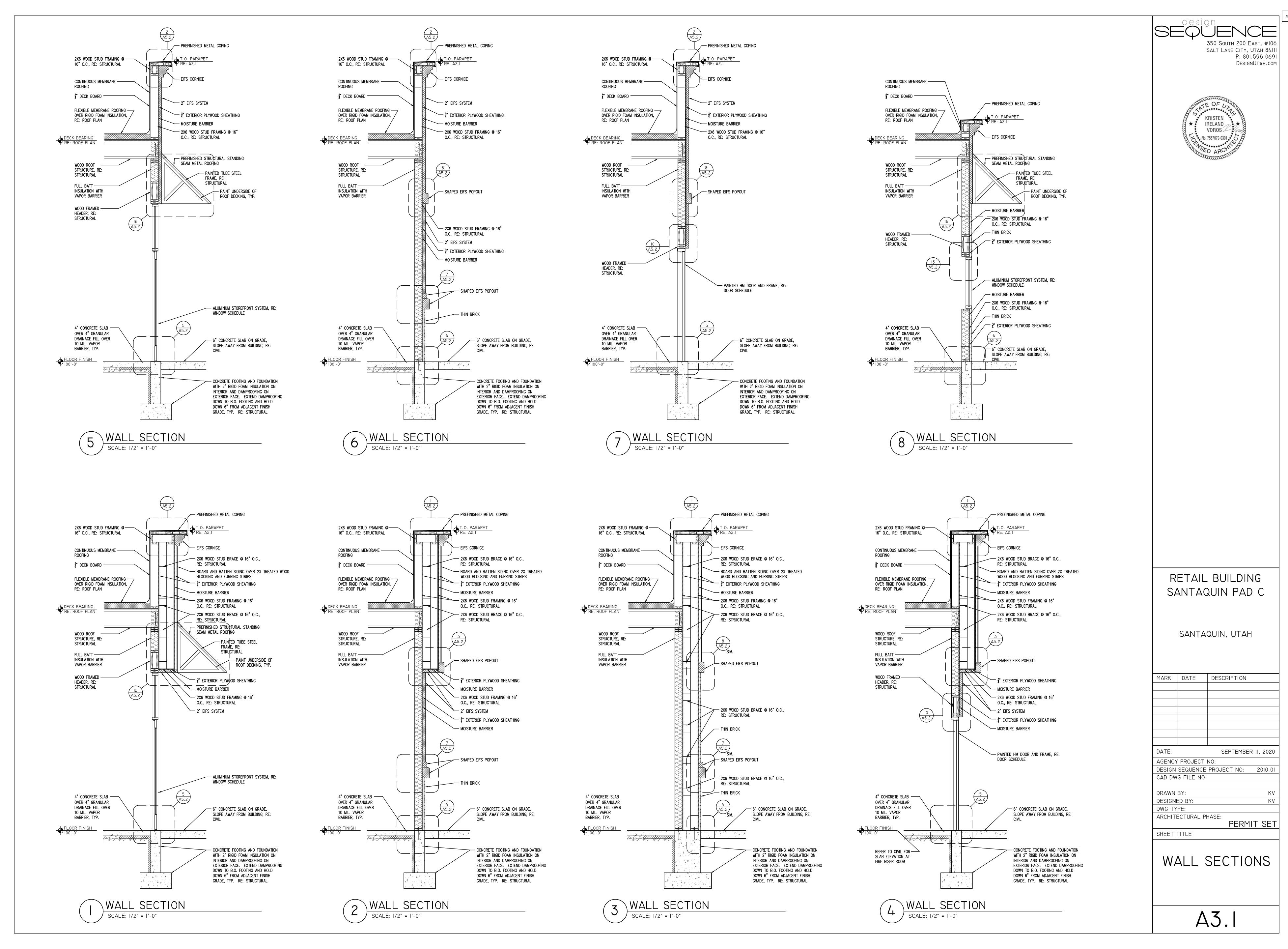
SALT LAKE CITY, UTAH 84111

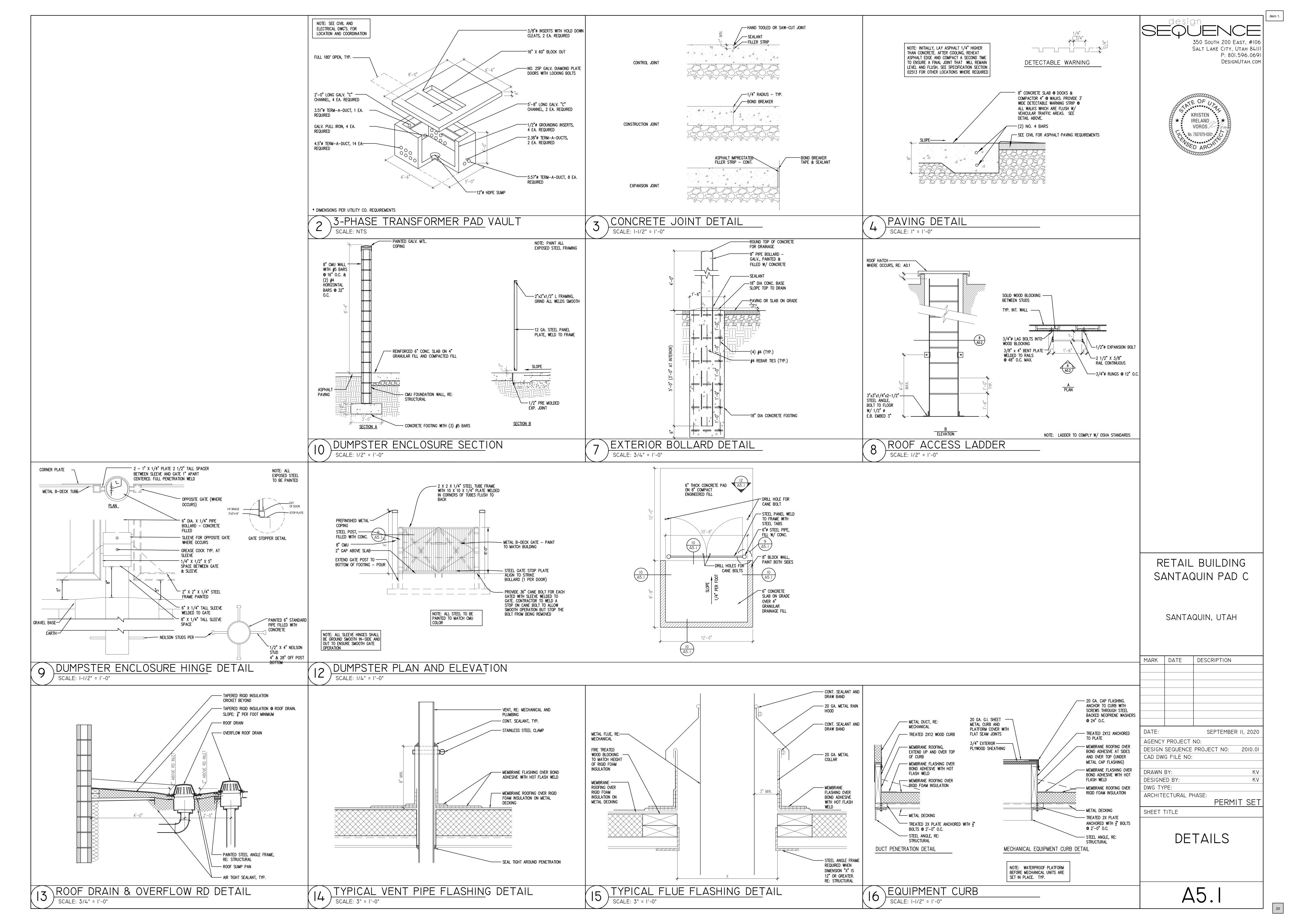
IRELAND

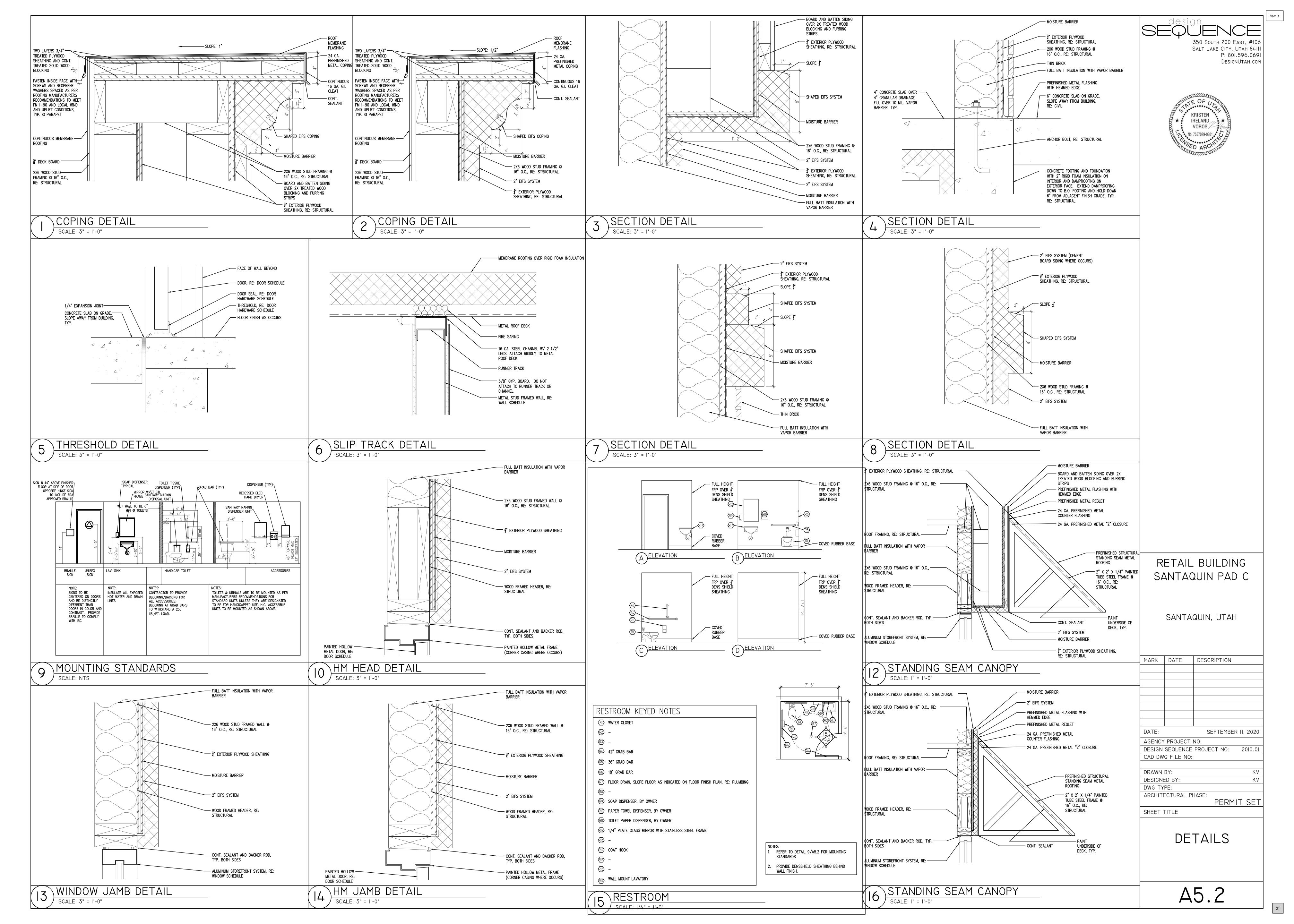
VOROS

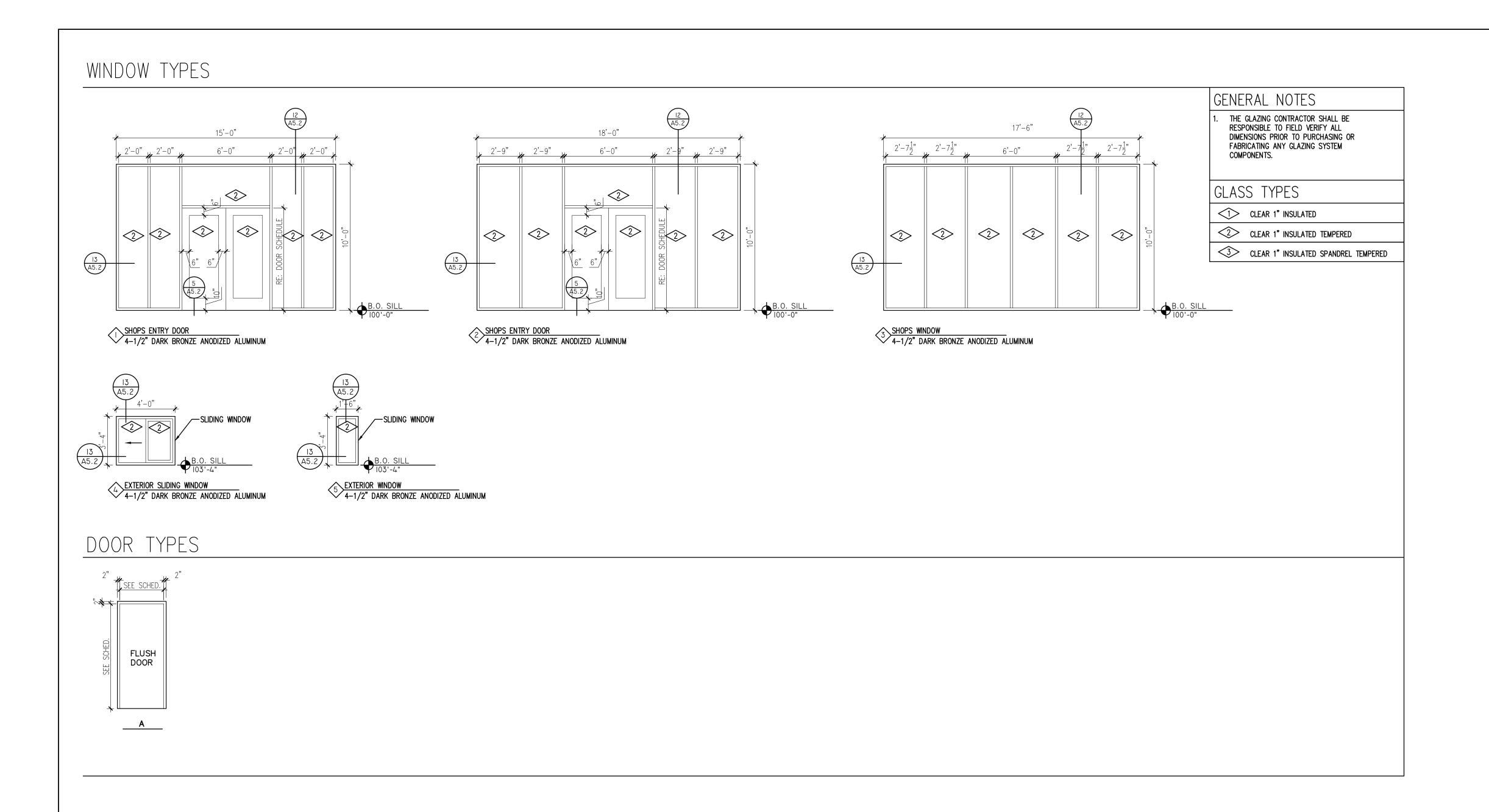
P: 801.596.0691

DESIGNUTAH.COM









Hard	dware S	chedule
2 ea Stabilizer 2 ea Closers 40 2 ea Weatherstriping 2 ea Door Bottom F 1 Ea Threshold	Ö-112HD Roto 48NL x 697NL 26D Von	Duprin Duprin LCN
Hardware Group 2 — Rear Door 3 Each Hinges Hager 1 Each Panic Von D 1 Each Lockset Best 1 Each Closer LCN 1 Each Threshold Pemco 1 Each Door BottomPen 1 Each Weatherstrip Pen 1 Each Peephole 3 Each Silencers	AB700 4-1/2" uprin CD 98 E0 93K 7 D 14D S3 4040XP 170 A nco 368 CN	x 4-1/2" 26D US26D 626 Alum
Hardware Group 3 — Fire Riser 3 Each Hinges Hager 1 Each Lockset Best 1 Each Closer LCN 1 Each Threshold Pemko 1 Each Door BottomPen 1 Each Weatherstrip Pen 3 Each Silencers	AB750 5" x 5" 93K 7 D 14D S3 4040XP 0 170 A nko 368 CN	, 26D 626 Alum
Hardware Group 4 — Singe Use 3 Each Hinges Hager 1 Each Lockset Best 1 Each Closer LCN 1 Each Stop Roc 2 Each Kickplate Rockw 3 Each Silencers	AB700 4-1/2" 93K 7 L 14D S3 4040XP kwood 440	x 4-1/2" 26D 626 Alum 32D

					D C	0 R	SC	HEI	DUL	E		
		DOO) R					FR	AME			
				SIZE					DETAILS			NOTES
DOOR NUMBER	TYPE	MATERIAL	W	Н	Т	MATERIAL	FIRE RATING	HEAD	JAMB	THRES.	HARDWARE GROUP	
101	SEE WINDOW SCHEDULE	ALUM	3'-0"	7'-0"		ALUM		12/A5.2	13/A5.2	5/A5.2	1	
102	SEE WINDOW SCHEDULE	ALUM	3'-0"	7'-0"		ALUM		12/A5.2	13/A5.2	5/A5.2	1	
103	SEE WINDOW SCHEDULE	ALUM	3'-0"	7'-0"		ALUM		12/A5.2	13/A5.2	5/A5.2	1	
104	Α	НМ	4'-0"	7'-0"	1-3/4"	НМ	20 MIN.	10/A5.2	14/A5.2	5/A5.2	3	
105	SEE WINDOW SCHEDULE	ALUM	3'-0"	7'-0"	1-3/4"	ALUM		12/A5.2	13/A5.2	5/A5.2	1	
106	Α	НМ	3'-0"	7'-0"	1-3/4"	НМ		10/A5.2	14/A5.2	5/A5.2	2	
107	A	НМ	3'-0"	7'-0"	1-3/4"	НМ		10/A5.2	14/A5.2	5/A5.2	2	
108	Α	НМ	3'-0"	7'-0"	1-3/4"	НМ		10/A5.2	14/A5.2	5/A5.2	2	
109	Α	НМ	3'-0"	7'-0"	1-3/4"	НМ		10/A5.2	14/A5.2	5/A5.2	2	
110	Α	НМ	3'-0"	7'-0"	1-3/4"	НМ		10/A5.2	14/A5.2	5/A5.2	2	
111	Α	НМ	3'-0"	7'-0"	1-3/4"	НМ		10/A5.2	14/A5.2	5/A5.2	2	
112	A	НМ	3'-0"	7'-0"	1-3/4"	НМ		10/A5.2 SIM.	14/A5.2 SIM.		4	

				IN I	Э Г	1 3	5 C		DULE		
	BASE			W A	LL				MATERIAL		
ROOM NUMBER AND NAME	N	Е	S	W	N	Е	S	W	NOTES	MATERIAL NUMBER	MATERIAL DESCRIPTION
101 - LEASE SPACE	B-2	B-2	B-2	B-2	W-9	W-9	W-9	W-9		B-1	6" RUBBER COVED
102 - LEASE SPACE	B-2	B-2	B-2	B-2	W-9	W-9	W-9	W -9		B-2	NO BASE
103 - LEASE SPACE	B-2	B-2	B-2	B-2	W-9	W-9	W-9	W -9		B-3	6" HIGH SEALED CONCRETE CURI
104 - RISER ROOM	B-2	B-2	B-2	B-2	W-8	W-8	W-8	W-8	1-HOUR RATED, SEAL ALL PENETRATIONS	B-4	CART BUMPER, OFCI
105 - LEASE SPACE	B-1	B-1	B-1	B-1	W-1	W-1	W-1	W-1		B-5	COVED TILE BASE
										W-1	PAINTED GYP. BOARD
										W-2	TILE/FRP/STAINLESS STEEL OVE 1/2" DENS SHIELD BACKER BOAR RE: WALL FINISH PLAN
										W-3	10'-0" X 3/4" PLYWOOD WAINSCOT WITH GYP. BOARD ABOVE (TAPE & SAND ONLY, 1-COAT FINISH)
										W-4	UNPAINTED MASONRY
										W-5	PAINTED MASONRY
										W-6	METAL WALK-IN BOX, BY MANUFACTURER
										W-7	FRP TO 10'-0" AFF WITH GYP. BOARD ABOVE (TAPE & SAND ONLY, 1-COAT FINISH)
										W-8	TAPE AND SAND ONLY, 1—COATINISH
										W-9	EXPOSED STUDS





RETAIL BUILDING SANTAQUIN PAD C

SANTAQUIN, UTAH

MARK DATE DESCRIPTION

DATE: SEPTEMBER II, 2020

AGENCY PROJECT NO:

DESIGN SEQUENCE PROJECT NO: 2010.01

CAD DWG FILE NO:

DRAWN BY:

DESIGNED BY:

DWG TYPE:

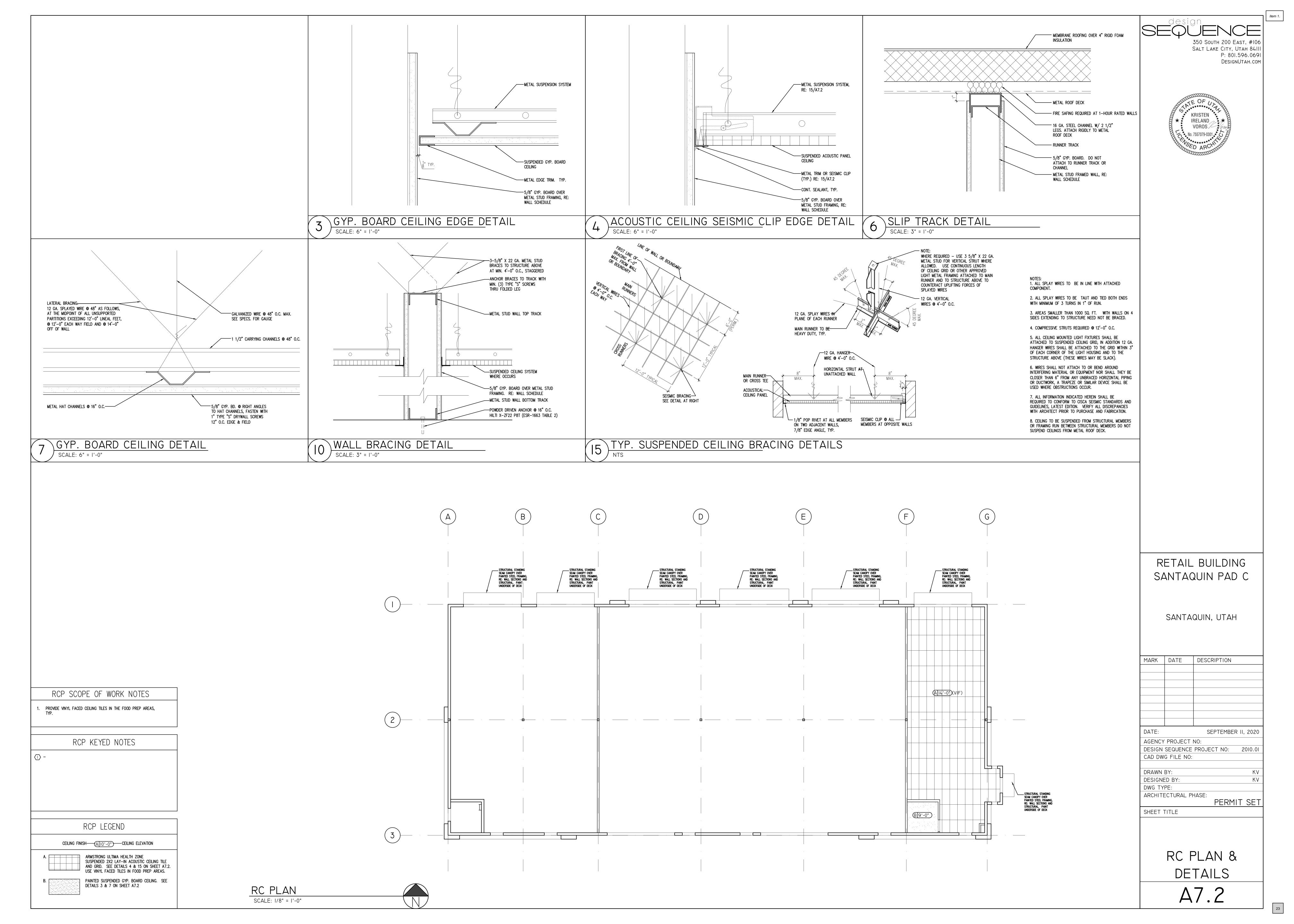
ARCHITECTURAL PHASE:

SHEET TITLE

SCHEDULES

PERMIT SET

A6.1



- 1. THE STRUCTURAL NOTES ARE INTENDED TO COMPLEMENT THE PROJECT SPECIFICATIONS WHICH ARE PART OF THE CONSTRUCTION DOCUMENTS. SPECIFIC NOTES AND DETAILS ON THE DRAWINGS SHALL
- GOVERN OVER THE STRUCTURAL NOTES AND TYPICAL DETAILS. 2. THESE DRAWINGS (AND. WHERE APPLICABLE, ACCOMPANYING WRITTEN SPECIFICATIONS) ARE THE ONLY CONTRACT DOCUMENTS PROVIDED BY ARW ENGINEERS FOR THE PROJECT REPRESENTED HEREIN. NOTHING IN ANY DIGITAL MODEL OR DIGITAL FILE RELATED TO THIS PROJECT SHALL BE TAKEN TO SUPERSEDE ANY INFORMATION SHOWN IN THESE DRAWINGS (INCLUDING, BUT NOT LIMITED TO, DIMENSIONS, SIZES, ETC).
- 3. THE ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. THE STRUCTURAL DRAWINGS ARE SUPPLEMENTARY TO AND MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND OTHER CONSULTANTS DRAWINGS. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN CASE OF CONFLICT, FOLLOW THE MOST STRINGENT REQUIREMENT AS DIRECTED BY THE
- ARCHITECT AT NO ADDITIONAL COST TO THE OWNER. 4. SEE SPECIFICATIONS FOR REQUIRED SUBMITTALS. SUBMITTALS SHALL BE MADE IN A TIMELY MANNER AS INDICATED IN SPECIFICATIONS. REVIEW OF SUBMITTALS BY ARW ENGINEERS IS FOR GENERAL COMPLIANCE ONLY AND IS NOT INTENDED AS APPROVAL. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SIZES, DIMENSIONS, AND ELEVATIONS ON SUBMITTALS AS RELATED TO DESIGN DOCUMENTS. PREPARATION OF SHOP DRAWINGS FOR STRUCTURAL ELEMENTS WILL REQUIRE INFORMATION (I.E. DIMENSIONS, ETC.) FOUND IN THE ARCHITECTURAL, STRUCTURAL, AND OTHER CONSULTANTS DRAWINGS.
- . THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE. IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN ON CONTRACT DOCUMENTS, CONTRACTOR SHALL NOTIFY
- ARCHITECT PRIOR TO FABRICATION OR CONSTRUCTION OF ANY AFFECTED ELEMENTS. $6.^{\circ}$ THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL LOCATIONS AND SIZES OF MECHANICAL EQUIPMENT OR OTHER EQUIPMENT BEFORE FABRICATING AND ERECTING STRUCTURAL ELEMENTS. SIZES AND LOCATIONS THAT DIFFER FROM THOSE SHOWN ON THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT.
- 7. THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE ARCHITECT FOR ARCHITECT AND/OR ENGINEER APPROVAL BEFORE PROCEEDING WITH ANY CHANGES, MODIFICATIONS, OR SUBSTITUTIONS $_{
 m SC}$ OBSERVATION VISITS TO THE SITE BY ARW ENGINEERS FIELD REPRESENTATIVES SHALL NEITHER BE
- CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION. 9. DURING AND AFTER CONSTRUCTION, BUILDER AND/OR OWNER SHALL KEEP LOADS ON STRUCTURE
- WITHIN THE LIMITS OF DESIGN LOADS AS NOTED IN THESE DOCUMENTS. 10. TYPICAL OR SIMILAR DETAILS AND SECTIONS SHALL APPLY WHERE SPECIFIC DETAILS ARE NOT SHOWN. TYPICAL OR SIMILAR DETAILS REFER TO THE CONDITION ADDRESSED AND ARE NOT NECESSARILY DETAILS LABELED "TYPICAL" OR "SIMILAR" IN THE PLANS AND DOCUMENTS.
- 11. DRAWINGS AND DETAILS HAVE BEEN PREPARED WITH THE INTENT TO VISUALLY REPRESENT INFORMATION PROVIDED IN SCALED FORM; HOWEVER CONTRACTOR/SUPPLIERS SHOULD NOT SCALE PLANS OR DETAILS FOR DIMENSIONAL INFORMATION
- 12. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY SHORING AND BRACING FOR ALL STRUCTURAL ELEMENTS UNTIL THE ENTIRE STRUCTURAL SYSTEM IS COMPLETED. DESIGN OF ALL SHORING AND BRACING IS BY OTHERS AT NO ADDITIONAL COST TO THE OWNER. 13. ENGINEER SHALL NOT BE RESPONSIBLE FOR ACTIVITIES UNDER CONTROL OF THE CONTRACTOR SUCH AS CONSTRUCTION SITE SAFETY, MEANS, METHODS AND SEQUENCING OF CONSTRUCTION. ENGINEER

SHALL NOT BE RESPONSIBLE FOR FABRICATION, ERECTION AND CONSTRUCTION REQUIREMENTS AS

PRESCRIBED BY OSHA OR OTHER REGULATORY AGENCIES REGARDLESS OF INDICATIONS IN THESE

- 14. NOTICE OF COPYRIGHT: THESE STRUCTURAL DRAWINGS ARE HEREBY COPYRIGHTED BY ARW $^\circ$ ENGINEERS. ALL RIGHTS RESERVED. THESE DOCUMENTS DEFINE A STRUCTURE AND ARE $^\circ$ INSTRUMENTS OF SERVICE, FOR ONE USE ONLY. REPRODUCTION AND DISTRIBUTION OF THESE DRAWINGS IS ONLY ALLOWED AS REQUIRED FOR REGULATORY AGENCIES AND FOR CONVEYANCE OF INFORMATION TO PARTIES INVOLVED IN THE CONSTRUCTION OF THIS PROJECT. THESE DOCUMENTS SHALL NOT BE REPRODUCED OR COPIED, IN PART OR WHOLE BY ANY PARTY FOR USE IN
- PREPARATION OF SHOP DRAWINGS OR OTHER SUBMITTALS. 15. WHERE THE WORD "SHALL" OCCURS IN THESE DRAWINGS AND ANY ACCOMPANYING SPECIFICATIONS, IT IS CONSIDERED A MANDATORY OBLIGATION AND SYNONYMOUS WITH THE PHRASE "HAS DUTY TO".

B. STATEMENT OF SPECIAL INSPECTIONS AND SPECIAL INSPECTIONS

- 1. THE DESIGNATED SEISMIC/WIND SYSTEMS AND SEISMIC/WIND-FORCE-RESISTING SYSTEMS THAT ARE SUBJECT TO SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC SECTION 1705.11 AND 1705.12 ARE IDENTIFIED ON THESE DOCUMENTS WITH A CIRCLE "L". ALL OTHER ITEMS REQUIRING SPECIAL INSPECTION ARE IDENTIFIED IN THE SPECIAL INSPECTION SCHEDULE ON SHEET **X.XX**...
- SPECIAL INSPECTIONS AND TESTING ARE TO BE PROVIDED AS REQUIRED BY IBC SECTIONS 1704 THROUGH 1705 AND OTHER APPLICABLE SECTIONS OF THE IBC. THE TYPE AND FREQUENCY OF TESTING AND SPECIAL INSPECTIONS SHALL BE AS NOTED IN THE SPECIAL INSPECTION SCHEDULE, JOB . SPECIFICATIONS, AND ACCORDANCE WITH IBC SECTION 110 AND CHAPTER 17. CONTRACTOR SHALL COORDINATE AND COOPERATE WITH REQUIRED INSPECTIONS $3.\,^{\circ}$ ALL TESTING AND SPECIAL INSPECTION SHALL BE PROVIDED BY A QUALIFIED INDEPENDENT SPECIAL
- INSPECTION AGENCY IN ACCORDANCE WITH IBC 1704 AND AS OUTLINED IN THE JOB SPECIFICATIONS REPORTS OF FINDINGS OR DISCREPANCIES SHALL BE NOTED AND FORWARDED TO THE CONTRACTOR ARCHITECT, ENGINEERS, AND BUILDING OFFICIAL IN A TIMELY MANNER. 4. STRUCTURAL OBSERVATION VISITS SHALL BE PERFORMED BY A REPRESENTATIVE FROM ARW ENGINEERS IN ACCORDANCE WITH THE CONTRACT AS NEEDED TO OBSERVE THE CONSTRUCTION OF
- CRITICAL BUILDING ELEMENTS (I.E. FOOTINGS, BRACED FRAMES, MOMENT FRAMES, DRAG STRUTS AND THEIR CONNECTIONS, COLLECTORS, AND ROOF AND FLOOR DIAPHRAGMS). STRUCTURAL OBSERVATION REPORTS FOR EACH VISIT SHALL BE SENT DIRECTLY TO THE ARCHITECT FOR DISTRIBUTION TO THE CONTRACTOR AND BUILDING OFFICIAL. STRUCTURAL OBSERVATION VISITS SHALL NEITHER BE CONSTRUED AS SPECIAL INSPECTION NOR APPROVAL OF COMPLETED
- 5. IN ACCORDANCE WITH IBC 1704.4, THE CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER. THE STATEMENT SHALL BE SUBMITTED PRIOR TO THE CONSTRUCTION OF ANY SEISMIC/WIND-FORCE-RESISTING SYSTEM. DESIGNATED SEISMIC/WIND SYSTEM, OR COMPONENT IDENTIFIED IN THESE DOCUMENTS WITH A

C. BASIS OF DESIGN

2. ROOF LOADS

CONSTRUCTION.

- 1. GOVERNING BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC) 2015 RISK CATEGORY: II
- a. FLAT-ROOF SNOW LOAD, Pf: 27 PSF GROUND SNOW LOAD, Pa: 39 PSF
- SNOW EXPOSURE FACTOR, Ce: 1.0 SNOW LOAD IMPORTANCE FACTOR, Is: 1.0
- THERMAL FACTOR, Ct: 1.0 SLOPE FACTOR, Cs: 1.0 SNOW DRIFT: SHOWN ON PLANS WHERE APPLICABLE.
- b. LIVE LOAD = 20 PSF c. DEAD LOAD = 20 PSF d. RAIN INTENSITY, i = 1.5 IN/HR
- 3. WIND DESIGN a. BASIC WIND SPEED (3 SECOND GUST): 102 MPH
- b. ALLOWABLE STRESS DESIGN WIND SPEED, V_{ASD}: 80 MPH . WIND EXPOSURE: (
- d. INTERNAL PRESSURE COEFFICIENT, GCPI: 0.18 e. COMPONENT AND CLADDING DESIGN WIND PRESSURE SHALL BE AS REQUIRED PER ASCE 7-10.
- 4. SEISMIC DESIGN: a. SEISMIC IMPORTANCE FACTOR, I_E: 1.0 b. SITE CLASS: D
- MAPPED SPECTRAL RESPONSE ACCELERATIONS : $S_8 = 1.717$, $S_1 = 0.637$ d. SPECTRAL RESPONSE COEFFICIENTS: S_{DS} = 1.374, S_{D1} = 0.722
- . SEISMIC DESIGN CATEGORY : D-DEFAULT BASIC SEISMIC-FORCE-RESISTING SYSTEM: OCBF g. DESIGN BASE SHEAR: $V_{N-S} = 0.184 \text{ WT}$, $V_{E-W} = 0.184 \text{ WT}$
- SEISMIC RESPONSE COEFFICIENT, Cs: 0.154 RESPONSE MODIFICATION FACTOR, R: 6 1/2 ANALYSIS PROCEDURE: ELF

D. FOUNDATION

- GENERAL a. DESIGN SOIL PRESSURE: 1500 PSF
- b. ALL FOOTINGS SHALL BE PLACED ON MECHANICALLY COMPACTED FILL COMPACTED TO NOT LESS THAN 95% OF MODIFIED PROCTOR DENSITY (ASTM D-1557)
- c. UNLESS NOTED OTHERWISE, ALL CONCRETE SLABS ON EARTH SHALL BEAR ON STRUCTURAL FILL COMPACTED TO 90% OF MODIFIED PROCTOR DENSITY (ASTM D-1557). TOP OF FOOTING ELEVATIONS SHOWN ON THE FOOTING AND FOUNDATION PLAN ARE BASED ON PRELIMINARY GRADING INFORMATION AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION. STEPS WHERE SHOWN ARE AT APPROXIMATE LOCATIONS. ACTUAL STEP LOCATIONS SHALL BE AT THE CONTRACTOR'S DISCRETION BASED UPON FIELD CONDITIONS. ALL EXTERIOR FOUNDATIONS SHALL BEAR A MINIMUM OF 32" BELOW LOWEST ADJACENT FINAL GRADE.
- e. ALL WALLS (EXCEPT CANTILEVERED RETAINING WALLS) SHALL BE ADEQUATELY BRACED AGAINST LATERAL MOVEMENT PRIOR TO BACKFILLING. DESIGN AND ERECTION OF BRACING/SHORING SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. BRACING SHALL REMAIN IN PLACE UNTIL SUPPORTING STRUCTURAL ELEMENTS ARE IN PLACE AND HAVE ATTAINED FULL STRENGTH. of. UNLESS NOTED OTHERWISE, ALL FOOTINGS AT COLUMNS SHALL BE CENTERED BELOW COLUMNS. . UNLESS NOTED OTHERWISE, ALL FOOTINGS SHALL HAVE VERTICAL FACES FORMED WITH STANDARD FORMING MATERIALS (WOOD, METAL, ETC.), WITH PRIOR APPROVAL OF ARCHITECT AND ENGINEER, CONCRETE FOR FOOTINGS CAN BE PLACED IN EXCAVATED SOIL "FORMS" PROVIDED

E. CONCRETE

- 1. ALL CONCRETE MIX DESIGNS SHALL COMPLY WITH THE PROJECT SPECIFICATIONS AND THE
- REQUIREMENTS LISTED BELOW: a. FOOTINGS, GRADE BEAMS, FOUNDATION WALLS 1. WHERE THE TOP OF THE ELEMENT IS EXPOSED AND IS LOCATED WITHIN 32" OF THE LOWEST
 - ADJACENT GRADE (EXPOSURE CATEGORY F2): a. 28 DAY COMPRESSIVE STRENGTH: 4500 PSI 0.45

THAT THE DIMENSIONS ARE INCREASED 3" ON ALL SIDE.

- b. MAXIMUM W/C RATIO c. MAXIMUM AGGREGATE SIZE : d. DESIGN AIR CONTENT:
- FIELD TOLLERANCE AIR CONTENT OF +/- 1.5% WHERE THE TOP OF THE ELEMENT IS NOT EXPOSED (EXPOSURE CATEGORY F0) a. 28 DAY COMPRESSIVE STRENGTH: 3000 PSI
- INTERIOR SLABS ON GRADE (EXPOSURE CATEGORY F0) 1. 28 DAY COMPRESSIVE STRENGTH: 3000 PSI
- c. INTERIOR SUSPENDED SLABS (EXPOSURE CATEGORY F0) 1. 28 DAY COMPRESSIVE STRENGTH: 3000 PSI

JOINTS SHALL BE PREWETTED AND STANDING WATER REMOVED.

- . WATER USED IN MIXING CONCRETE SHALL CONFORM TO ASTM C1602. . NO PIPES. DUCTS. SLEEVES. ETC. SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER. NO ALUMINUM PRODUCTS SHALL BE EMBEDDED IN CONCRETE. PENETRATIONS THRU STRUCTURAL CONCRETE ELEMENTS MUST BE APPROVED BY THE ENGINEER AND SHALL BE BUILT INTO THE ELEMENT PRIOR TO CONCRETE
- 4. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, ETC. TO BE CAST IN TO
- CONCRETE, AND FOR EXTENT AND LOCATION OF DEPRESSIONS, CURBS, RAMPS, ETC. 5. WHERE NEW CONCRETE IS PLACED AGAINST PREVIOUSLY HARDENED CONCRETE, THE JOINT SHALL BE CLEAN AND FREE OF LAITANCE. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, CONSTRUCTION

F. ANCHOR BOLTS/EMBEDDED BOLTS

- 1. ALL ANCHOR BOLTS SHALL HAVE ASTM A-563 HEAVY HEX NUT AND ASTM F-436 WASHERS AT STANDARD OR OVERSIZED HOLES PER AISC SPECIFICATION TABLE J3.3. WHERE HOLE SIZES DO NOT COMPLY WITH THE LIMITATIONS FOR OVERSIZED HOLES THE STRUCTURAL ENGINEER SHALL BE NOTIFIED TO DETERMINE STEEL PLATE WASHER REQUIREMENTS. ANCHOR BOLTS SHALL COMPLY WITH THE FOLLOWING: a. AT BRACED FRAMES & MOMENT RESISTING FRAMES - ASTM F1554 GRADE 105 HEADED
- BOLTS.(ASTM A449 THREADED ROD MAY BE USED WITH DOUBLE NUT AND WASHER.) b. AT WOOD STUD WALLS - ASTM A-307 GRADE HEADED BOLTS. ANCHOR BOLTS IN TREATED LUMBER SHALL BE GALVANIZED OR STAINLESS STEEL. SEE TIMBER NOTES FOR MORE INFORMATION.
- c. AT ALL OTHER ANCHOR BOLTS (UNLESS NOTED OTHERWISE) ASTM F1554 GRADE 36 HEADED BOLTS. (ASTM A36 THREADED ROD MAY BE USED WITH DOUBLE NUT AND WASHER.)
- 2. EMBEDDED BOLTS IN MASONRY SHALL BE (UNLESS NOTED OTHERWISE) ASTM A-307 GRADE HEADED
- 3. SEE TYPICAL ANCHOR BOLT DETAIL FOR DEFINITIONS OF EMBEDMENT LENGTH, ETC. 4. FURNISH TEMPLATES AND OTHER DEVICES AS NECESSARY FOR PRESETTING ALL BOLTS PRIOR TO PLACING CONCRETE AND/OR GROUT.
- IF THREADED RODS ARE USED AS PERMITTED ABOVE, THEY SHALL BE CLEAR OF SOIL AND DIRT. 6. WHERE REQUIRED FOR ERECTION, HOLES LARGER THAN OVERSIZED MAY BE PERMITTED WITH THE USE OF STEEL PLATE WASHERS AT THE DISCRETION OF THE STRUCTURAL ENGINEER..

G. ADHESIVE/MECHANICAL ANCHORS

- 1. WITHOUT WRITTEN APPROVAL OF THE ENGINEER, CONTRACTOR SHALL NOT SUBSTITUTE POST INSTALLED ANCHORS WHERE CAST-IN-PLACE ANCHORS ARE SPECIFIED IN THE DRAWINGS. 2. WHERE STRUCTURAL DETAILS SPECIFY SPECIFIC BRANDS AND/OR TYPES OF ADHESIVES OR
- ANCHORS, SUBSTITUTIONS OF OTHER BRANDS AND/OR TYPES IS NOT ALLOWED, WITHOUT WRITTEN APPROVAL OF THE ENGINEER. 3. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. SUBSTITUTION REQUESTS SHALL INCLUDE AN
- ICC ESR OR IAPMO REPORT AND SUPPORTING CALCULATIONS INDICATING COMPLIANCE WITH DESIGN 4. ALL ADHESIVE/MECHANICAL ANCHORS SHALL BE INSTALLED. INCLUDING HOLE DRILLING AND PREPARATION, IN ACCORDANCE WITH AN APPROVED INDEPENDENT EVALUATION REPORT (ICC-ES, IAPMO, OR APPROVED EQUAL), AS INDICATED BELOW, AND IN ACCORDANCE WITH ALL
- MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) 5. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION. ADHESIVE ANCHORS SHALL NOT BE FULLY LOADED UNTIL CONCRETE HAS REACHED DESIGN STRENGTH 6. UNLESS APPROVED BY THE ENGINEER OF RECORD, CONCRETE AND DRILLED ANCHOR HOLES SHALL BE DRY AND FREE OF WATER FOR 24 HOURS PRIOR TO ADHESIVE INSTALLATION. CONTACT THE
- ENGINEER OF RECORD FOR GUIDANCE IF THE CONTRACTOR CHOOSES TO INSTALL IN WET OR DAMP 7. CONCRETE TEMPERATURE AT THE TIME OF INSTALLATION SHALL BE MONITORED BY THE CONTRACTOR. CONTRACTOR SHALL COMPLY WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) RELATIVE TO SUBSTRATE TEMPERATURE. 8. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT
- SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT IN ACCORDANCE WITH ACI 318-11 D.9.2.2. PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. CONTINUOUS SPECIAL INSPECTION SHALL BE PROVIDED FOR THESE ANCHORS.
- 9. UNLESS NOTED OTHERWISE, ALL ADHESIVE ANCHORS INTO CONCRETE SHALL BE: a. HILTI HIT-RE 500V3 (ESR-3814), OR HILTI HIT-HY 200-A (ESR-3187). b. SIMPSON SET-3G (ESR-4057), OR AT-XP (ER-0263).
- c. DEWALT PURE 110+ (ESR-3298), OR AC200+ GOLD (ESR-4027-COLD WEATHER) 10. UNLESS NOTED OTHER WISE, ALL MECHANICAL ANCHORS INTO CONCRETE SHALL BE: a. HILTI KWIK BOLT TZ (ESR-1917).

MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.

- b. SIMPSON STRONG-BOLT 2 (ESR-3037). 11. UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO CONCRETE SHALL BE:
- a. SIMPSON TITEN HD (ESR-2713)... b. DEWALT SCREWBOLT+ (ESR-2526) c. HILTI KWIK HUS-EZ (ESR-3027).
- SPECIFIED IN THE SPECIAL INSPECTION SCHEDULE AND THE APPROVED INDEPENDENT EVALUATION REPORT. TENSION TESTING CAN BE REQUIRED AT THE DIRECTION OF THE STRUCTURAL ENGINEER OF RECORD OR THE SPECIAL INSPECTOR. 13. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON THAT HOLE AND SHIFT THE ANCHOR LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM SPACE OF (2) ANCHOR HOLE

12. THE TESTING LABORATORY WILL PERFORM VISUAL INSPECTION OF ANCHORS AND DOWELS AS

DIAMETERS OR 1 INCH, WHICH EVER IS LARGER, OF SOUND CONCRETE/MASONRY BETWEEN THE ANCHOR AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. AT CONTRACTORS OPTION, LOCATE EXISTING REINFORCEMENT PRIOR TO DRILLING/CORING. IF THE ANCHOR OR DOWEL CANNOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW 14. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES,

H. REINFORCING STEEL

- 1. REINFORCING BAR STRENGTH REQUIREMENTS:
- a. ALL REINFORCING BARS SHALL CONFORM TO ASTM STANDARD A-615 GRADE 60 AND ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM STANDARD A-1064 AND SHALL BE SUPPLIED IN FLAT SHEETS. ADEQUATELY TIE AND SUPPORT ALL REINFORCING STEEL AS SPECIFIED BY ACI 117, TO MAINTAIN EXACT REQUIRED POSITION.
- HEADED SHEAR STUD ASSEMBLIES SHALL CONFORM TO ASTM A1044. B. STEEL DISCONTINUOUS FIBER REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO ASTM A820 AND SHALL HAVE A LENGTH TO DIAMETER RATIO NOT SMALLER THAN 50 AND NOT GREATER THAN 100. 4. HEADED DEFORMED BARS SHALL CONFORM TO ASTM A970. OBSTRUCTIONS OR INTERRUPTIONS OF THE BAR DEFORMATIONS, IF ANY, SHALL NOT EXTEND MORE THAN 2 BAR DIAMETERS FROM THE BEARING FACE OF THE HEAD.
- 5. ALL REINFORCING STEEL SHALL BE TIED IN PLACE AND ADEQUATELY SUPPORTED PRIOR TO PLACING CONCRETE. WET STABBING OF ANY REINFORCING STEEL IS NOT PERMITTED, UNLESS SPECIFICALLY DETAILED OTHERWISE OR APPROVED BY THE ENGINEER. ALL FIELD BENT DOWELS SHALL BE GRADE 40 WITH SPACING INDICATED REDUCED BY 1/3.
- 7. UNLESS NOTED OTHERWISE, REINFORCEMENT SHALL HAVE THE FOLLOWING CONCRETE COVERAGE: a. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3" b. EXPOSED TO EARTH OR WEATHER: #6 & LARGER 2"
- 2. #5 & SMALLER1-1/2" c. NOT EXPOSED TO WEATHER OR EARTH:

BE IN CONTACT WITH REINFORCING STEEL.

- SLABS, WALLS, JOISTS, #11 & SMALLER 3/4" BEAMS, COLUMNS: MAIN REINFORCING OR TIES 1-1/2"
- d. SLAB ON GRADE 1. PLACE REINFORCING AT CENTER OF SLAB UNLESS INDICATED OTHERWISE. 8. EXCEPT WHERE NOTED ON PLANS OR DETAILS CONTINUOUS REINFORCEMENT SHALL BE SPLICED AT POINTS OF MINIMUM STRESS BY LAPPING PER THE REBAR LAP SCHEDULE.
- 9. REINFORCING STEEL MAY BE SPLICED WITH MECHANICAL COUPLERS THAT HAVE A TENSION CAPACITY OF AT LEAST 125% OF THE STRENGTH OF THE BAR. MECHANICAL COUPLERS SHALL BE A POSITIVE CONNECTING TYPE COUPLER, AND SHALL BE INSTALLED IN ACCORDANCE WITH AN APPROVED ICC RESEARCH REPORT. WHERE THESE ARE USED, SPLICES ON ADJACENT BARS SHALL BE STAGGERED AT LEAST 24 INCHES ALONG THE LENGTH OF THE BARS. 10. ALL VERTICAL REINFORCING IN STRUCTURAL ELEMENTS ABOVE SHALL BE SPLICED WITH MATCHING
- DOWELS EMBEDDED WITHIN THE FOOTINGS OR STRUCTURE BELOW. SPLICE LENGTHS SHALL COMPLY WITH REBAR LAP SCHEDULE, DOWELS INTO FOOTINGS SHALL TERMINATE WITH A STANDARD HOOK. AND SHALL EXTEND TO WITHIN 4" OF THE BOTTOM OF THE FOOTING, BUT NEED NOT EXTEND MORE THAN 20" INTO FOOTING. 11. DO NOT WELD REINFORCING EXCEPT AS NOTED ON PLANS, WHERE REINFORCING IS WELDED, USE
- ASTM A-706 REINFORCING 12. REINFORCING BARS, TIES, AND TENDONS SHALL BE SUPPORTED BY NYLON CONES, PLASTIC-COATED TIE-WIRES, OR PLASTIC-COATED CHAIRS. REINFORCING IN FOOTINGS IS PERMITTED TO BE SUPPORTED ON CONCRETE DOBIES.
- 13. UNLESS NOTED OTHERWISE, HOOKS, STIRRUPS, TIES, AND OTHER BENDS IN REINFORCING STEEL SHALL MEET THE STANDARDS SET FORTH IN ACI 318/318R-14. UNLESS OTHERWISE PERMITTED BY THE ENGINEER, ALL REINFORCEMENT SHALL BE BENT COLD. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, EXCEPT AS SHOWN ON THESE DRAWINGS OR OTHERWISE

14. UNLESS SPECIFICALLY NOTED AND/OR DETAILED IN THE STRUCTURAL DRAWINGS CONDUIT SHALL NOT

PERMITTED BY THE ENGINEER

I. STRUCTURAL STEEL

7. METAL DECKING

- 1. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING: a. ...ANSI/AISC 360-16 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", WITH "COMMENTARY" AND
- "SUPPLEMENTS" AS REQUIRED BY BUILDING CODE. b. ··AISC 303-16 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" EXCLUDING THE FOLLOWING SECTIONS: 4.4, 4.4.1, AND 4.4.2.
- c. AISI "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" \cdots d. \cdots AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
- e. AWS D1.1 AND 1.3, "STRUCTURAL WELDING CODE" (EXCEPT SPECIFIC ITEMS DO NOT APPLY IF THEY CONFLICT WITH AISC).
- ANSI/AISC 341-16 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS". AWS D1.8, "STRUCTURAL WELDING CODE - SEISMIC"
- STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING a. WIDE FLANGE SHAPES AND WT SHAPES - ASTM A992
- b. OTHER SHAPES AND PLATES ASTM A-36 (UNO) c. HOLLOW STRUCTURAL SECTIONS (HSS) - ASTM A-500, GRADE C FOR SQUARE, RECTANGULAR AND ROUND SHAPES (FY = 50 KSI FOR SQUARE AND RECTANGULAR SHAPES AND 46 KSI FOR ROUND
- d. STAINLESS STEEL SHAPES, PLATES, AND FASTENERS ASTM 304 e. DEFORMED BAR ANCHORS (DBA) - ASTM A-496, WELDED IN ACCORDANCE WITH AWS D1.1 HEADED STUD ANCHORS (HSA) - ASTM A-108, GRADE 1015 STEEL AND WELDED IN ACCORDANCE WITH AWS D1.1 FOR TYPE "B". USE 3/4" DIAMETER STUDS, UNLESS NOTED OTHERWISE. THREADED ROD - ASTM A-449.
- NON-SHRINK GROUT ASTM C110. NON-SHRINK GROUT SHALL BE PRE-PACKAGED, NON-METALLIC, WITH A 28-DAY COMPRESSIVE STRENGTH OF 6,000 PS 3. CONNECTIONS SHALL COMPLY WITH THE STRUCTURAL DRAWINGS UNLESS WRITTEN APPROVAL TO CHANGE IS GIVEN BY THE STRUCTURAL ENGINEER. 4. ALL SHOP FABRICATIONS SHALL BE PERFORMED BY AN APPROVED FABRICATOR IN ACCORDANCE WITH SECTIONS 1702 AND 1704 OF THE IBC OR WITH SHOP INSPECTION BY AN INDEPENDENT AGENCY IN ACCORDANCE WITH SECTION 1704.2.5 OF THE IBC. WELDING
- a. ALL WELDING AND CUTTING SHALL BE PERFORMED BY AWS QUALIFIED WELDERS IN ACCORDANCE WITH ANSI/AWS D1.1 (LATEST EDITION) b. USE E-70XX ELECTRODES UNLESS NOTED OTHERWISE. E-60XX MAY BE USED FOR WELDING STEEL
- c. ALL INTERSECTING STEEL SHAPES WHICH ARE NOT CONNECTED WITH BOLTS SHALL BE WELDED TOGETHER WITH A FILLET WELD ALL AROUND UNLESS NOTED OTHERWISE. WHERE WELD SIZES ARE NOT SHOWN, USE THE FOLLOWING: 1. WHERE THE THICKNESS OF THE CONNECTED PARTS IS EQUAL TO OR THICKER THAN 1/4", WELD SIZE SHALL BE 1/16" LESS THAN THE THICKNESS OF THE THINNEST PART. 2. WHERE ANY OF THE CONNECTED PARTS IS LESS THAN 1/4" THICK, WELD SIZE SHALL BE THE
- SAME AS THE THICKNESS OF THE THINNEST PART d. WELDING OF HSA'S (HEADED STUD ANCHORS) AND DBA'S (DEFORMED BAR ANCHORS) SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS AND AWS D1.1 REINFORCING BARS SHALL NOT BE SUBSTITUTED FOR HSA'S OR DBA'S. e. WHEREVER POSSIBLE, WELDS SHALL BE SHOP WELDS. SPECIAL CONSIDERATIONS, SUCH AS ITEMS WHICH MAY NEED ADJUSTMENT AT THE SITE, REQUIRE THAT SOME WELDS BE FIELD WELDS. WHERE QUESTIONS OR DISCREPANCIES OCCUR THE CONTRACTOR SHALL COORDINATE THE
- f. SPECIAL PROVISIONS FOR SFRS (SEISMIC FORCE RESISTING SYSTEM): 1. ALL WELDS DESIGNATED AS DEMAND CRITICAL WELDS SHALL BE MADE WITH FILLER METALS MEETING THE REQUIREMENTS SPECIFIED IN CLAUSES 6.1, 6.2, AND 6.3 OF AWS D1.8. 2. ALL OTHER WELDS THAT ARE PART OF THE SFRS SHALL BE MADE WITH FILLER METALS MEETING THE REQUIREMENTS SPECIFIED IN CLAUSE 6.1 OF AWS D1.8. BUTT WELDS IN MEMBERS WITH DIFFERENT THICKNESSES, SUCH AS COLUMN SPLICES, SHALL

WORK BETWEEN THE SHOP FABRICATOR AND THE STEEL ERECTOR.

2-1/2 INCHES. THE TRANSITION SHALL BE ACCOMPLISHED BY CHAMFERING THE THICKER PART. TAPERING THE WIDER PART, SLOPING THE WELD METAL OR BY A COMBINATION OF THESE 6. BOLTING a. UNLESS NOTED OTHERWISE, ALL STRUCTURAL STEEL TO STEEL CONNECTIONS SHALL USE HIGH

BE TAPERED AND MADE IN SUCH A MANNER THAT THE TRANSITION DOES NOT EXCEED 1 IN

- STRENGTH BOLTS CONFORMING TO ASTM F3125 GR. A325 b. UNLESS NOTED OTHERWISE, ALL BOLTING IS CLASSIFIED AS NON-SLIP CRITICAL BEARING TYPE CONNECTIONS WITH THREADS INCLUDED IN SHEAR PLANE. TIGHTEN BOLTS TO A SNUG TIGHT CONDITION, WITH ALL PLIES OF THE JOINT IN FIRM CONTACT. c. WHERE OVERSIZED OR SLOTTED HOLES OCCUR IN THE OUTER PLY, AN ASTM F436 WASHER OR -- 5/16" THICK COMMON PLATE WASHER SHALL BE USED AS REQUIRED TO COMPLETELY COVER THE
- d. BOLTS SHALL BE CENTERED IN SLOTTED HOLES, UNLESS NOTED OTHERWISE e. WHERE A STEEL BEAM TO BEAM CONNECTION IS NOT SHOWN, PROVIDE AN AISC STANDARD FRAMED CONNECTION SIZED FOR 1/2 OF THE TOTAL LOAD CAPACITY OF THE BEAM FOR THE SPAN AND STEEL SPECIFIED.
- a. UNLESS NOTED OTHERWISE, METAL FLOOR DECK SHALL BE 20 GAUGE TYPE B COMPOSITE GALVANIZED, UNVENTED STEEL DECK. UNLESS NOTED OTHERWISE, ATTACH TO SUPPORTING STRUCTURE WITH 3/4" DIAMETER WELDS AT 12" MAXIMUM SPACING, ATTACH SIDE SEAMS WITH BUTTON PUNCH OR SIDE SEAM SCREWS AT 12" MAXIMUM SPACING. AN HSA FIELD-WELDED THROUGH THE DECK MAY SUBSTITUTE FOR A PUDDLE WELD.
- b. ALL DECK SHALL BE CONTINUOUS OVER 3-SPANS. WHERE NOT POSSIBLE, THE DECK SUPPLIER/CONTRACTOR SHALL PROVIDE HEAVIER GAUGE DECK AS NEEDED TO PROVIDE THE EQUIVALENT PERFORMANCE OF THE SPECIFIED DECK WITH 3-SPAN CONTINUITY.
- c. SEE TYPICAL DETAILS FOR SUPPORT OF DECK AT OPENINGS d. PROVIDE L2"x2"x3/16" FOR DECK SUPPORT AT LOCATIONS WHERE COLUMNS EXTEND THROUGH
- e. PAINTED STEEL DECK SHALL CONFORM TO ASTM A1008 AND GALVANIZED STEEL DECK SHALL CONFORM TO A653 GRADE G60. f. BUILDING ELEMENTS MAY BE SUPPORTED BY HANGING DIRECTLY FROM METAL DECKING. PROVIDED THAT THE TOTAL WEIGHT PER CONNECTION IS LESS THAN 50 LBS AND THAT THE
- ATTACHMENT TO THE DECKING IS DISTRIBUTED ACROSS AT LEAST TWO RIBS AND SPACED AT LEAST 6 FEET APART IN ANY DIRECTION. 8. PROVIDE FULL DEPTH WEB STIFFENER PLATES AT EACH SIDE OF STEEL BEAMS AT ALL BEARING (EXCEPT SECONDARY FRAMING) POINTS. STIFFENER PLATES SHALL BE THICKNESS SHOWN UNLESS NOTED OTHERWISE AND SHALL BE WELDED BOTH SIDES WITH FILLET WELDS ALL AROUND. FLANGE WIDTH STIFFENER THICKNESS WELD THICKNESS
- 8 1/4" < BF < 12 1/2" 3/8" ..12 1/2" < BF < 18".... 1/2" ...5/16". 9. FABRICATORS AND SUPPLIERS SHALL COORDINATE PAINT/FINISHES WITH REQUIREMENTS FOR DIRECT APPLIED INSULATION, FIREPROOFING, ETC. AS NOTED IN THE PROJECT SPECIFICATIONS. 10. WHEN DETERMINING THE FIRE RESISTANCE OF ASSEMBLIES, USE THE FOLLOWING: STEEL ROOF
- MEMBERS ARE CONSIDERED UN-RESTRAINED AND STEEL FLOOR FRAMING MEMBERS ARE CONSIDERED RESTRAINED. 11. UNLESS NOTED OTHERWISE, ALL HORIZONTAL FRAMING MEMBERS SHALL BE ERECTED WITH THE NATURAL CROWN UP. 12. UNLESS OTHERWISE SHOWN OR DETAILED IN THE PLANS, ALL STEEL COLUMNS, BEAMS, BRACES,
- STRUTS, ETC. SHALL BE CONTINUOUS BETWEEN CONNECTIONS OR SUPPORTS. SPLICES IN MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL BY THE ENGINEER OF RECORD.

J. STRUCTURAL DELEGATED DESIGNS AND DEFERRED SUBMITTALS

- --1. .. STRUCTURAL DELEGATED DESIGNS AND SUBSEQUENT DEFERRED SUBMITTALS ARE FOR ELEMENTS. PARTS, OR PORTIONS OF THE OVERALL STRUCTURAL SYSTEM THAT ARE INDICATED OR REFERRED TO ON THESE DRAWINGS AND THAT ARE CRITICAL TO THE PERFORMANCE OF THE OVERALL STRUCTURAL SYSTEM. DESIGN CRITERIA HAS BEEN PROVIDED FOR THESE ITEMS IN THE STRUCTURAL NOTES. PLANS, AND DETAILS. ...2. ... STRUCTURAL DEFERRED SUBMITTALS ARE COMPLETE PACKAGES TO BE SUBMITTED FOR REVIEW THAT INCLUDE DRAWINGS AND CALCULATIONS FOR ALL DELEGATED DESIGN ITEMS AND THEIR CONNECTIONS. DEFERRED SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THEIR DESIGN. 3. ARW ENGINEERS WILL REVIEW STRUCTURAL DEFERRED SUBMITTALS TO VERIFY DESIGN CRITERIA IS COMPLIANT WITH THE APPROVED CONSTRUCTION DOCUMENTS.
- 4. STRUCTURAL DELEGATED DESIGN COMPONENTS SHALL NOT BE INSTALLED UNTIL APPROVED BY THE BUILDING OFFICIAL 5. STRUCTURAL DELEGATED DESIGN ITEMS REQUIRING DEFERRED SUBMITTALS INCLUDE, BUT ARE NOT a. PRE-MANUFACTURED WOOD TRUSSES, BLOCKING, BRIDGING, BRIDGING CONNECTIONS, TRUSS

1. NON-STRUCTURAL DELEGATED DESIGNS AND SUBSEQUENT DEFERRED SUBMITTALS ARE FOR ITEMS

HANGERS, AND RELATED COMPONENTS. K. NON-STRUCTURAL DELEGATED DESIGNS AND DEFERRED SUBMITTALS

- NOT INCLUDED IN THE STRUCTURAL DELEGATED DESIGN SECTION. THESE ARE ITEMS THAT ARE NOT CRITICAL TO THE OVERALL PERFORMANCE OF THE STRUCTURAL SYSTEM BUT THAT IMPART LOADS AND FORCES TO THE STRUCTURAL SYSTEM. 2. NON-STRUCTURAL DEFERRED SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN. 3. "ARW ENGINEERS WILL REVIEW NON-STRUCTURAL DEFERRED SUBMITTALS TO VERIFY DESIGN . CRITERIA IS COMPLIANT WITH THE APPROVED CONSTRUCTION DOCUMENTS. 4. IF THE STRUCTURAL DRAWINGS INCLUDE LOADS TO ACCOMMODATE NON-STRUCTURAL ELEMENTS THE CONTRACTOR SHALL SUBMIT DOCUMENTATION INDICATING THAT THE NON-STRUCTURAL
- ELEMENTS COMPLY WITH THE LOADING CRITERIA PROVIDED HEREIN. SUCH DOCUMENTATION SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN. 5. IF THE NON-STRUCTURAL DEFERRED SUBMITTAL INDICATES THAT THE ELEMENT WILL IMPART FORCES IN EXCESS OF THOSE INDICATED ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL SUBMIT A DETAILED GRAPHICAL REPRESENTATION OF THOSE DESIGN LOADS, INCLUDING MAGNITUDE, AND LOCATION. THE GRAPHIC SHALL BE ACCOMPANIED BY DOCUMENTATION INDICATING THAT THE NON-STRUCTURAL ELEMENT DESIGN COMPLIES WITH THE LOADING CRITERIA PROVIDED HEREIN. THE LETTER SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN.

6. NON-STRUCTURAL DELEGATED DESIGN ITEMS REQUIRING DEFERRED SUBMITTALS SHALL INCLUDE

BUT ARE NOT LIMITED TO: a. COLD FORMED STEEL STUDS / JOISTS / HEADERS / JAMBS / TRUSSES. b. SEISMIC BRACING OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL ITEMS WHERE REQUIRED BY THE MOST RECENT VERSION OF ASCE 7 AND THE PROJECT CONTRACT DOCUMENTS.

 		Structural Sheet Index	***************************************
SHEET NUMBER		SHEET NAME	
 S001	STRUCTURAL NOTES		, · · ·
 S002	SCHEDULES		1.5.75
 S003	SCHEDULES		
S101	STRUCTURAL PLANS		
S201	DETAILS		
 S202	DETAILS		
S203	DETAILS		

LEGEND OF SYMBOLS AND ABBREVIATIONS FOOTING MARK = ANCHOR BOLT = ABOVE TOP OF FOOTING ELEV. ARCH = ARCHITECT BLW = BELOW SECTION MARK = BOUNDARY NAILING = COMPLETE JOINT PENETRATION SHEET NUMBER = CENTERLINE = COLUMN TOP OF FOUNDATION WALL OR = CONCRETE COLUMN PIER ELEV. = CONCRETE PIER = DEMAND CRITICAL SHEAR WALL - SEE SCHEDULE = DIAMETER MIN. LENGTH OF SHEAR WALL = DEFORMED BAR ANCHOR DECK BEARING ELEVATION S——S —— FOOTING STEP = ELEVATION = EDGE NAILING . (>**•** DEPRESS FDN./WALL AND POUR = EDGE OF DECK = FOUNDATION FLOOR SLAB OVER AT CONCRETE FOOTING FOUNDATION WALL = FINISHED FLOOR ELEVATION = HEADED STUD ANCHOR HD - SIMPSON HOLDOWN SIZE POST = KICKER BRACE SIZE OF END POST CONNECTED TO = MAXIMUM MAX HOLDOWN "A" - PLAN **MECH** MECHANICAL CONFIGURATION AT HOLDOWN AT MEZZ MEZZANINE FOUNDATION = MINIMUM ELEVATION NS, FS = NEAR SIDE, FAR SIDE = OR APPROVED EQUAL = OPPOSITE POWDER ACTUATED FASTENER = PLATE FRAMING CHANNEL SEE TYPICAL

RESISTING SYSTEM.

L. TIMBER

REQ'D

UNO

= REINFORCING

= TOP OF BEAM ELEVATION

= TOP OF CONCRETE SLAB

= TOP OF STEEL ELEVATION

= UNLESS NOTED OTHERWISE

19/32

= TOP OF FOOTING

= REQUIRED

= SIMILAR

= TYPICAL

ROOFS:

- 1. WOOD GRADES (UNLESS NOTED OTHERWISE) a. ALL FRAMING LUMBER SHALL BE DOUGLAS FIR/LARCH CLEARLY MARKED WITH A STAMP BY WWPA APPROVED AGENCY AND SHALL BE GRADED AS FOLLOWS: 1. HORIZONTAL MEMBERS: JOISTS & RAFTERS: NO. 2, BEAMS & STRINGERS: NO. 2.
- . VERTICAL MEMBERS: POST & TRIMMERS: NO. 1, STUDS: NO. 2. b. ALL FRAMING IN CONTACT WITH FOOTINGS, FOUNDATIONS OR SLABS ON GRADE SHALL BE PRESSURE TREATED OR TIMBERSTRAND LSL TREATED LUMBER WITH EQUIVALENT STRESS
- GRADES TO TYPICAL FRAMING MEMBERS. c. UNLESS NOTED OTHERWISE, ALL ENGINEERED LUMBER SHALL BE FURNISHED BY TRUS-JOIST CORPORATION OR APPROVED EQUAL AND SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES MODULUS OF ELASTICITY FLEXURAL STRESS RATING LVI · 2 000 000 PS 2.000.000 PS 2 900 PS
- LSL: 1,550,000 PSI 2.325 PS 2. SHEATHING SHALL BE APA RATED SHEATHING, EXPOSURE I, EXTERIOR GLUE AND PANEL INDEX RATING AS NOTED BELOW UNLESS NOTED OTHERWISE: THICKNESS. LOCATION PANEL INDEX WALLS: 7/16"
- 24" IN EITHER DIRECTION AND SHALL SPAN A MINIMUM OF TWO FRAMING SPACES, UNO. ALL 23/32" FLOOR SHEATHING SHALL BE TONGUE AND GROOVE UNLESS NOTED OTHERWISE 5. CONNECTIONS, FASTENERS, AND ADHESIVE a. ALL BOLTS THRU WOOD SHALL BE ASTM A307 AND SHALL HAVE HARDENED WASHERS UNDER ASTM A563 HEAVY HEX NUT AND BOLT HEADS.

. PANEL FIELD NAILING "FN": 12"O.C. AT INTERIOR SUPPORTS IN FIELD OF PANEL

UNLESS NOTED OTHERWISE, 10d COMMON (0.148) NAILS SHALL BE USED TO FASTEN ALL PLYWOOD ROOF SHEATHING TO SUPPORTING TRUSSES, JOISTS, LEDGERS OR BLOCKING AS FOLLOWS: 1. BOUNDARY NAILING "BN": 6"O.C. AT ALL BEARING WALLS, SHEAR WALLS, BLOCKING, AND WHERE OTHERWISE INDICATED IN THE STRUCTURAL DRAWINGS. 2. PANEL EDGE NAILING "EN": 6"O.C. AT ALL OTHER PLYWOOD PANEL EDGES.

32/16

INDIVIDUAL PIECES OF SHEATHING AT ROOF, FLOOR, AND SHEAR WALLS SHALL NOT BE SMALLER THAN

(0.131) NAILS SHALL BE USED TO FASTEN ALL PLYWOOD SHEAR WALL SHEATHING TO STUDS AND **BLOCKING AS FOLLOWS:** 1. PANEL EDGE NAILING "EN": 6"O.C. PANEL FIELD NAILING "FN": 12"O.C. AT INTERIOR SUPPORTS IN FIELD OF PANEL. . NAILS SHALL BE GALVANIZED OR STAINLESS STEEL AT EXPOSED LOCATIONS OR IN TREATED

WOOD (SEE NOTE BELOW FOR FASTENERS CONNECTED TO OR IN CONTACT WITH TREATED

c. UNLESS NOTED OTHERWISE IN THE WOOD SHEAR WALL SCHEDULE ON SHEET XX/XXX, 8d COMMON

- WOOD). THE HEAD OF ALL NAILS SHALL BE DRIVEN FLUSH WITH THE SURFACE OF THE SHEATHING EXCEPT WHERE NOTED OTHERWISE. THE NUMBER AND SIZE OF NAILS CONNECTING WOOD MEMBERS SHALL NOT BE LESS THAN THAT SET FORTH IN IBC TABLE 2304.10.1. CONNECTIONS FOR
- MULTIPLE PIECES OF ENGINEERED LUMBER PIECES SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. e. UNLESS NOTED OTHERWISE, ALL NAILS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: MIN. PENETRATION COMMON SHANK HEAD LENGTH DIAMETER DIAMETER INTO SUPPORT MEMBER NAIL SIZE
 - 0.113" 0.266" 0.131" 0.281" 2-1/2" 1.375" 0.148" 0.312" 1.50" 0.148" 0.312" 3-1/4" 1.50"
- 0.162" 0.344" 3-1/2" f. A CONTINUOUS BEAD OF PERMANENT BOND TIMBER/WOOD ADHESIVE COMPOUND SHALL BE USED TO FASTEN ALL PLYWOOD FLOOR SHEATHING TO FLOOR JOISTS IN ACCORDANCE WITH
- MANUFACTURERS' SPECIFICATIONS. . ALL FRAMING ANCHORS, POST CAPS, HOLD DOWNS, COLUMN BASES ETC. TO BE PROVIDED BY SIMPSON OR APPROVED EQUAL AND SHALL BE ATTACHED IN ACCORDANCE WITH
- MANUFACTURER'S PUBLISHED DATA, UNLESS NOTED OTHERWISE. h. UNLESS NOTED OTHERWISE, ALL WALL BOTTOM PLATES TO BE ANCHORED TO FOUNDATIONS OR FOOTINGS WITH 3/4" DIAMETER ANCHOR BOLTS AT 32"O.C. WITH 8" MINIMUM EMBEDMENT. THERE SHALL BE A MINIMUM OF (2) ANCHOR BOLTS PER PLATE WITH ONE BOLT LOCATED NOT MORE THAN 12" AND NOT LESS THAN 4" FROM EACH END OF EACH PIECE. WALL BOTTOM PLATES AT SHEAR WALLS SHALL INCLUDE 1/4" x 3" x 3" STEEL PLATE WASHERS
- BETWEEN THE SILL PLATE AND NUT OF THE ANCHOR BOLT. THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND SLOT LENGTH NOT TO EXCEED 1-3/4". PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT. THE PLATE WASHER SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SHEATHED SIDE. FASTENERS CONNECTED TO OR IN CONTACT WITH PRESERVATIVE-TREATED AND/OR FIRE-

RETARDANT-TREATED WOOD (EXCEPT FOR TIMBERSTRAND LSL TREATED LUMBER AND BORATE

- BASED TREATMENTS) SHALL BE OF G-185 HOT-DIP GALVANIZED STEEL OR 304 OR 316 STAINLESS STEEL. STAINLESS STEEL AND GALVANIZED STEEL SHALL NEVER BE USED IN CONTACT WITH EACH 6. ALL WOOD TRUSSED RAFTERS SHALL BE FABRICATED IN COMPLIANCE WITH THE RESEARCH COMMITTEE RECOMMENDATIONS OF THE ICC FOR THE CONNECTOR PLATES USED. SUBMIT DESIGN CALCULATIONS WITH ENGINEERS SEAL FOR REVIEW WITH SHOP DRAWINGS. PROVIDE CALCULATIONS AND DETAILS FOR ALL TRUSS TO TRUSS CONNECTIONS INCLUDING CONNECTION HARDWARE. ALL
- THE TRUSS DESIGNER AND SHALL BE INCLUDED IN THE DESIGN CALCULATIONS FOR REVIEW. INSTALLATION OF ALL METAL-PLATE-CONNECTED WOOD TRUSSES SHALL COMPLY WITH THE FOLLOWING STANDARDS

NECESSARY TRUSS BRIDGING AND CONNECTION DESIGN OF TRUSS BRIDGING SHALL BE PROVIDED BY

- a. ANSI/TPI 1 "NATIONAL DESIGN STANDARD FOR METAL-PLATE-CONNECTED WOOD TRUSSES". b. TPI HIB "COMMENTARY AND RECOMMENDATIONS FOR HANDLING INSTALLING & BRACING METAL-PLATE-CONNECTED WOOD TRUSSES".
- c. TPI DSB "RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL-PLATE-CONNECTED WOOD TRUSSES". UNLESS NOTED OTHERWISE, ALL ROOF SHEATHING AND WALL SHEATHING AT SHEAR WALLS SHALL HAVE SOLID BLOCKING AT ALL PANEL EDGES.
- 9. PROVIDE DOUBLE JOIST UNDER PARALLEL NONBEARING WALLS AND SOLID BLOCKING UNDER PERPENDICULAR NONBEARING WALLS. 10. AT ALL OVERBUILD LOCATIONS, ROOF SHEATHING SHALL BE COMPLETE BELOW OVERBUILDS PRIOR TO OVERBUILD CONSTRUCTION. 11. PROVIDE SOLID 2" (NOMINAL) FULL DEPTH BLOCKING AT ENDS AND SUPPORT LOCATIONS FOR ALL
- JOISTS AND RAFTERS. BLOCKING SHALL BE ATTACHED TO SUPPORT FRAMING WITH A MINIMUM OF (1) SIMPSON A35 FRAMING ANCHOR BETWEEN JOISTS UNLESS NOTED OTHERWISE 12. UNLESS NOTED OTHERWISE, ALL BEARING WALLS SHALL BE 2x6 SPACED AT 16"O.C. BLOCK ALL NON-SHEATHED BEARING WALLS AT 4'-0"O.C. 13. VERIFY THE STUD SPACING WITH THE ANCHOR BOLT LAY-OUT. WHERE STUDS INTERFERE WITH
- SECTIONAL AREA OF THE STUD IS IN CONTACT WITH THE SILL PLATE. 14. UNLESS NOTED OTHERWISE, ALL EXTERIOR WALLS AND SHEAR WALLS SHALL HAVE DOUBLE 2X TOP PLATES THAT ARE SPLICED TOGETHER WITH A MINIMUM OF 48" OF OVERLAP AND SHALL BE CONNECTED TOGETHER WITH A MINIMUM OF (50) 10d COMMON NAILS EACH SIDE OF THE SPLICE. OUTSIDE OF THESE SPLICE LOCATIONS, TOP PLATES SHALL BE NAILED TOGETHER WITH 10d NAILS AT 15. UNLESS NOTED OTHERWISE, ALL HORIZONTAL FRAMING MEMBERS SHALL BE INSTALLED WITH THE

NATURAL CROWN UP.

ANCHOR BOLTS, PROVIDE AN ADDITIONAL FULL-HEIGHT STUD TO ENSURE THAT THE FULL CROSS-

350 South 200 East, #106 SALT LAKE CITY, UTAH 8411 DESIGNUTAH.COM 1594 W. Park Cir. Ogden, Utah 84404 ph. 801.782.6008 fx. 801.782.4656 ITEMS, DETAILS, & SYSTEMS WHICH ARE PART OF THE LATERAL FORCE

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DESCRIPTION

ARW PROJECT NO: 20207

CAD DWG FILE NO: DRAWN BY: -Thorner DESIGNED BY <u>A. Higgs</u> DWG TYPE:

1904.01

DESIGN SEQUENCE PROJECT NO:

PROJECT PHASI

SHEET TITLE

STRUCTURAL

		TABLE	OF EQUI	VALENT I	FASTENERS	
		STAPLES,	NAILS AND T-NAI	LS (VALID FOR LAT	TERAL LOADS ONLY)	
CON	MON NAIL		EQUIVAL	ENT SPACING OF	APPROVED FASTENERS	
s	PACING		STAPLES		NAILS &	T-NAILS
	GAUGE	16	15	14	.113	.131
PI	ENETRATION	1"	1"	1"	1 1/4"	1 1/2"
	4"	3 1/2"	4"	5"	4"	5"
	6"	5"	6"	7"	6"	7 1/2"
AT	8"	6 1/2"	8"	9 1/2"	8"	10"
p9	10"	8 1/2"	10"	12"	10"	12"
	12"	10"	12"	14 1/2"	12"	14 1/2"
	4"	2 1/2"	3 1/2"	4"	3 1/2"	4"
AT:	6"	4"	5"	6"	5"	6"
l	8"	5 1/2"	6 1/2"	8"	6 1/2"	8"
8d	10"	6 1/2"	8"	10"	8"	10"
	12"	8"	10"	12"	9 1/2"	12"
	4"	2"	2 1/2"	3"	2 1/2"	3 1/2"
AT:	6"	3 1/2"	4"	5"	4"	5"
1	8"	4 1/2"	5 1/2"	6 1/2"	5 1/2"	7"
10d	10"	5 1/2"	7"	8"	6 1/2"	8 1/2"
	12"	6 1/2"	8"	9 1/2"	8"	10"

PENETRATION IS THE DEPTH OF EMBEDMENT OF THE STAPLE OR NAIL INTO THE MAIN MEMBER REQUIRED TO ATTAIN ITS FULL CAPACITY (SHEAR VALUE) FOR LATERAL LOADING.

2018 IBC CONCRETE REBAR LAP SPLICE SCHEDULE

FOR CONCRETE APPLICATIONS (ACI 318 - 14)

FACE OF JOINT OR FACE OF JOINT OR - COUPLER OR CRITICAL SECTION -CRITICAL SECTION -WELDED SPLICE DEVELOPMENT LENGTH HOOK DEVELOPMENT LENGTH

														CON	CRETE	REIN	FORC	ING &	SPLIC	E LEI	NGTH:	S (IN)_								
	COI	NCRETE															В	AR SIZ	Έ		025									
BAR LOCATION	TVDE	STRENGTH		#3			#4			#5			#6			#7			#8			#9			#10			#11		COMMENTS
		STRENGTH	ℓd	ls	ℓdh	ℓd	ls	ℓdh	ℓd	ls	ℓdh	ℓd	ls	ℓdh	ℓd	ls	ℓdh	ℓd	ls	ℓdh	ℓd	ls	ℓdh	ℓd	ls	ℓdh	ℓd	ls	ldh	
VERT. WALL BARS, FILL ON METAL DECK	NWC	3000 PSI	17	22	8	22	29	8	28	36	10	33	43	12	48	62	13	55	72	15	62	81	17	69	90	19	76	99	30	
HORIZ. WALL BARS, FOOTING TOP BARS	NWC	3000 PSI	17	22	8	22	29	8	28	36	10	33	43	12	48	62	13	55	72	15	62	81	17	69	90	19	76	99	30	
BEAM BOTTOM BARS, COLUMN BARS	NWC	3000 PSI	17	22	8	22	29	11	28	36	14	33	43	16	48	62	19	55	72	22	62	81	25	69	90	27	76	99	30	
FOOTING BOTTOM BARS	NWC	3000 PSI	12	16	8	14	18	8	17	22	10	20	26	12	29	38	13	33	43	15	37	48	17	42	55	19	46	60	30	
BEAM TOP BARS	NWC	3000 PSI	22	29	8	29	38	11	36	47	14	43	56	16	63	82	19	72	94	22	81	105	25	90	117	27	98	127	30	
SLAB ON GRADE	NWC	3000 PSI	12	16	8	14	18	8	17	22	10	20	26	12	32	42	13	42	55	15	53	69	17	69	90	19	76	99	30	
														CONCRETE REINFORCING & SPLICE LENGTHS (IN)																
	COI	NCRETE																	· • · - · ·		•	~ (.)								
BAR LOCATION																		AR SIZ		,	05	<u> </u>								
	TVPF			#3			#4			#5			#6			#7						#9			#10			#11		COMMENTS
	TYPE	STRENGTH	ℓd	#3 {s	ldh	ℓd	#4 {s	ℓdh	ℓd	#5 {s	ldh	ℓd	#6 {s	ldh	ℓd	#7			Έ		ld		ℓdh	ℓd	#10 {s	ℓdh	ℓd	· · · · · · · · · · · · · · · · · · ·	ℓdh	COMMENTS
VERT. WALL BARS, FILL ON METAL DECK	TYPE		ℓd		ldh 7	ℓd 18		ldh 6	ℓd 23	,	ldh 8	ℓd 27	···		ℓd 40	#7	B <i>i</i> ldh	AR SIZ	'E #8		ld	#9	ldh	ℓd 56		ldh 16	ℓd 62	ls		COMMENTS
	<u> </u>	STRENGTH		ls			ls			ls			ls	ldh		#7 {s	B <i>i</i> ldh	AR SIZ	ĽΕ #8 ℓs	ldh	ld	#9 ls			ls]	ls	ℓdh	COMMENTS
FILL ON METAL DECK HORIZ. WALL BARS,	NWC	STRENGTH 4500 PSI	14	ℓs 18	7	18	ℓs 23	6	23	ใร 30	8	27	₹s	ldh 9	40	#7 {s	8/ (dh 11	AR SIZ ℓd 45	#8 #8 #s	ℓdh 13	ℓd 51	#9 \$\end{align*} 66	14	56	ℓs 73	16	62	₹s 81	ℓdh 25	COMMENTS
FILL ON METAL DECK HORIZ. WALL BARS, FOOTING TOP BARS BEAM BOTTOM BARS,	NWC NWC	STRENGTH 4500 PSI 4500 PSI	14	ls 18 18	7	18 18	ીક 23 23	6	23	ใร 30 30	8	27	{s 35	ℓdh 9	40	#7 {s	8/	45 45	#8	ldh 13 13	€d 51 51	#9 ls 66	14	56 56	ℓs 73 73	16 16	62	ℓs 81 81	ℓdh 25 25	COMMENTS
FILL ON METAL DECK HORIZ. WALL BARS, FOOTING TOP BARS BEAM BOTTOM BARS, COLUMN BARS FOOTING BOTTOM	NWC NWC	4500 PSI 4500 PSI 4500 PSI	14 14 14	18 18 18 16	7 7 7	18 18 18	23 23 23	6 6 9	23 23 23	8 30 30 30	8 8 11 8	27 27 27	ls 35 35 35	ℓdh 9 9	40 40 40	#7	8/ {dh 11 11 16	45 45 45	#8	ℓdh 13 13	fd 51 51 51	#9 ls 66 66	14 14 20	56 56 56	/s 73 73 73	16 16 22	62 62 62	81 81 81	25 25 25 25 25	COMMENTS

- 1. MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICES SHOWN. SEE STRUCTURAL NOTES FOR MINIMUM COUPLER CAPACITY. WHERE MECHANICAL COUPLERS ARE USED, STAGGER ADJACENT SPLICES A MINIMUM OF 24" AS
- 2. DEVELOPMENT LENGTHS SHALL BE INCREASED BY 50% FOR STRAIGHT BAR DEVELOPMENT AND 20% FOR HOOKED BARS WHERE EPOXY COATING IS USED. WHEN SPLICING BARS OF DIFFERENT SIZES, USE LAP SPLICE LENGTH OF LARGER BARS UNO.

SPECIAL INSPECTION SCHEDULE 1, 2
ESTABLISHED PER 2018 IBC SECTION 110 AND CHAPTER

4. SPLICE BARS LARGER THAN #11 USING MECHANICAL COUPLERS.

		ES	STABLISHED PER 2018 IBC	SECT	ΓΙΟΝ 110 AND CHAPTER 17
ITEM	CONTINUOUS ³	PERIODIC ³	REFERENCE		COMMENTS
PRE-FAB CONSTRUCTION (IBC 1704.2)			REFERENCE NOTES P1 & P2	P1.	SPECIAL INSPECTION IS NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION, PROVIDED THE FABRICATOR COMPLIES WITH IBC. INSPECTION FOR PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE MATERIAL USED IN THE CONSTRUCTION TOOK PLACE ON SITE. SPECIAL INSPECTION WILL NOT BE REQUIRED DURING PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE. (SEE NOTE 2).
REINFORCING STEEL PLACEMENT		•	SEE IBC TABLE 1705.3 - REF. NOTE C1	C 1.	SPECIAL INSPECTION IS NOT REQUIRED FOR CONC. ISOLATED SPREAD FOOTINGS, CONTINUOUS FOOTINGS, NON-STRUCTURAL SLABS, FOUNDATION WALLS, PATIOS, DRIVEWAYS, AND SIDEWALKS PROVIDED THE REQUIREMENTS OF IBC 1705.3 ARE MET. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR VERIFICATION OF THE WELDABILITY OF REINFORCING STEEL RESISTING
WELDING OF REINFORCING STEEL EMBEDDED BOLTS & PLATES VERIFYING REQUIRED DESIGN MIX	•	•	REFERENCE NOTE C2		FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS, AND SHEAR REINFORCEMENT. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR WELDING OF OTHER ASTM A 706 REINFORCING STEEL NOT INCLUDED IN THE CONTINUOUS SPECIAL INSPECTION REQUIREMENTS NOTED ABOVE.
CONCRETE PLACEMENT / SAMPLING CURING TEMPERATURE / TECHNIQUES PRESTRESSED CONCRETE	•	•	REFERENCE NOTE C3	C 3. C 4.	PERFORM AIR, SLUMP AND TEMP. TESTS WHEN CONCRETE SAMPLES ARE CAST. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR VERIFICATION OF IN-SITU CONCRETE STRENGTH FOR POST-TENSIONED CONCRETE PRIOR TO TENSIONING TENDONS OR REMOVING SHORING OR FORMS. EPOXY AND EXPANSION ANCHORS INTO MASONRY OR CONCRETE MAY BE USED ONLY WHEN APPROVED BY ARCHITECT. AND/OR
APPLICATION OF PRESTRESSING FORCES GROUTING BONDED TENDONS	•		IN SEISMIC-FORCE-RESISTING SYSTEM		ENGINEER USING AN APPROVED PRODUCT WITH CURRENT PUBLISHED ICC RESEARCH REPORT NUMBERS. COORDINATE CONTINUOUS/PERIODIC SPECIAL INSPECTION REQUIREMENTS WITH ICC REPORT.
VERIFICATION OF PRECAST MEMBERS VERIFICATION OF IN-SITU STRENGTH EPOXY / EXPANSION ANCHOR PLACEMENT	•	•	REFERENCE NOTE C4 REFERENCE NOTE C5		
WOOD (IBC 1705.5 & 1705.11.1 & 1705.12.2) HIGH LOAD DIAPHRAGMS (ROOF / FLOOR) SITE-BUILT ASSEMBLIES SHEAR WALL & DIAPHRAGM NAILING		•	REFERENCE NOTE W1 REFERENCE NOTE W2	W 1.	WOOD STRUCTURAL PANEL SHEATHING SHALL BE INSPECTED TO ASCERTAIN THAT GRADE AND THICKNESS ARE IN COMPLIANCE WITH APPROVED BUILDING PLANS. NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, THE NAIL OR STAPLE DIAMETER AND LENGTH, THE NUMBER OF FASTENER LINES, AND SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS SHALL ALSO BE INSPECTED AND VERIFIED FOR COMPLIANCE WITH APPROVED BUILDING PLANS. SPECIAL INSPECTION IS NOT REQUIRED FOR WOOD SHEAR WALLS, WOOD DIAPHRAGMS, INCLUDING NAILING, & BOLTING, AND OTHER FASTENING TO OTHER COMPONENTS WHERE THE SPACING OF THE SHEATHING FASTENERS IS GREATER THAN 4"o.c.
DRAG STRUTS BRACES & SHEAR PANELS HOLDOWNS GLUING OPERATIONS	•	•		W 3.	SPECIAL INSPECTION SHALL BE PERFORMED TO VERIFY THAT THE INSTALLATION OF TEMPORARY AND PERMANENT RESTRAINT/BRACING IS INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.
METAL-PLATE-CONNECTED WOOD TRUSSES WITH HEIGHTS GREATER THAN OR EQUAL TO 60"		•	REFERENCE NOTE W2		
METAL-PLATE-CONNECTED WOOD TRUSSES WITH SPANS GREATER THAN OR EQUAL TO 60 FEET		•	REFERENCE NOTE W3		
SOILS (IBC 1705.6)		_	REFERENCE NOTE F1	F1. F2.	SPECIAL INSPECTION OF SOILS SHALL REFERENCE THE APPROVED SOILS REPORT TO DETERMINE COMPLIANCE. WHERE SOILS REPORT IS NOT PROVIDED SPECIAL INSPECTIONS ARE REQUIRED TO VERIFY THAT THE IN-PLACE DRY DENSITY OF
VERIFY ADEQUATE MATERIALS BELOW FOOTINGS EXCAVATIONS EXTEND TO PROPER DEPTH AND REACH PROPER MATERIAL		•	REFERENCE NOTE F1 REFERENCE NOTE F2	ΓZ.	THE COMPACTED FILL IS NOT PROVIDED SPECIAL INSPECTIONS ARE REQUIRED TO VERIFY THAT THE IN-PLACE DRY DENSITY OF THE COMPACTED FILL IS NOT LESS THAN 90 PERCENT OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT DETERMINED IN ACCORDANCE WITH ASTM D 1557.
CLASSIFY & TEST CONTROLLED FILL MATERIALS PERFORM MATERIALS, DENSITIES, AND LIFT		•	REFERENCE NOTE F2		
THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL. PROPERLY PREPARED SITE AND SUB-GRADE PRIOR TO FILL.	•	•	REFERENCE NOTE F1		

GENERAL SPECIAL INSPECTION NOTES:

THE ITEMS MARKED WITH A "O" IN THE SPECIAL INSPECTION SCHEDULE SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL. ANY ITEMS WHICH FAIL TO COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL, ARCHITECT, AND ENGINEER PRIOR TO COMPLETION OF THAT PHASE OF WORK. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS. ANY CONSTRUCTION OR MATERIAL THAT HAS FAILED INSPECTION SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT. CONTINUOUS SPECIAL INSPECTION MEANS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION MEANS THE

PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK. (IBC SECTION 202)

				FOO	TING	SCHE	DUL	E	
MARK	WIDTH	LENGTH	THICK	LENGTHW NO.	ISE REINF. SIZE	CROS	SSWISE R SIZE	EINF. SPA.	REMARKS
FC2	2'-0"	CONT.	12"	(2)	#5				
F4	4'-0"	4'-0"	12"	(4)	#5	(4)	#5		
F5.5	5'-6"	5'-6"	12"	(6)	#5	(6)	#5		
3" CL	EAR	EQ.	EQ.	EQ. 3"	CLEAR	3" CLE	EAR E	EQ. E(Q. EQ. 3" CLEAR 2" CLEAR 3" CLEAR
				TYPIC	AL FOOTING	REINFO	RCING —		•
	TYF	P. F00	ΓING S	ECTION					TING SECTION BOTTOM REINF.

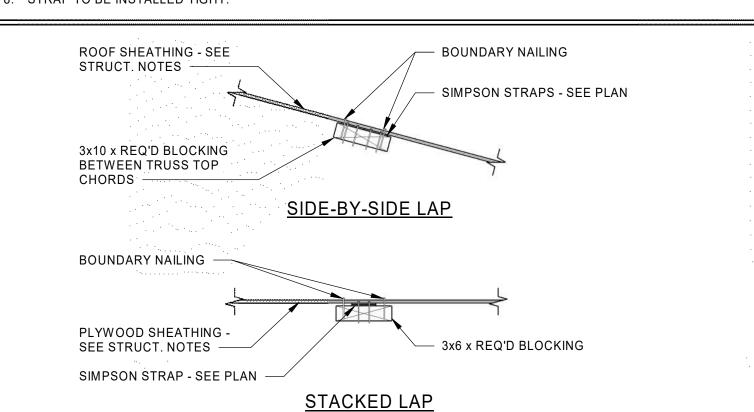
P: 801.596.0691 DESIGNUTAH.COM

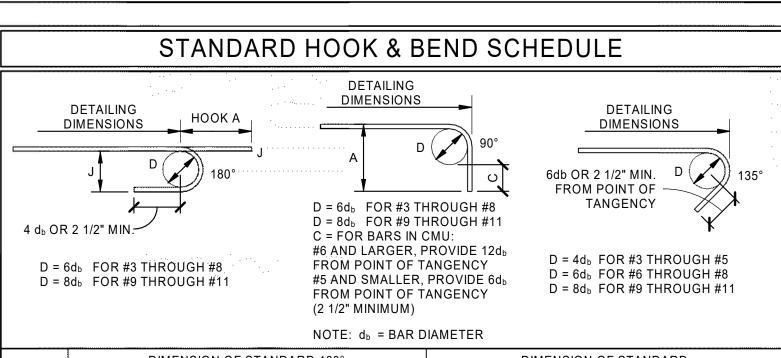
350 South 200 East, #106 SALT LAKE CITY, UTAH 8411

1594 W. Park Cir. Ogden, Utah 84404 ph. 801.782.6008 fx. 801.782.4656

	COIL STRAP LAP SPLICE SCHEDULE											
		LAP SPLICE										
ITEM #	MIN. # FASTENER	MIN. LAP SP	LICE LENGTH	COMMENTS								
	PER SPLICE	STACKED	SIDE-BY-SIDE									
CMST 12	25-16d	22"	33"									
CWIST 12	30-10d	27"	39"									
CMST 14	18-16d	16"	26"									
CIVIST 14	21-10d	19"	30"									
CMCTC 4C	13-16d	11"	20"									
CMSTC 16	15-10d	12"	20"									
00.44	26-10d		15"									
CS 14	30-8d		16"									
00.40	20-10d		11"									
CS 16	22-8d		13"									
00.40	16-10d		9"									
CS 18	18-8d		11"									
CC 20	12-10d		6"									
CS 20	14-8d		9"									
00.00	10-10d		7"									
CS 22	12-8d		6"									

- NO STRAP MODIFICATION IS ALLOWED. SPLICE MUST MEET BOTH THE MINIMUM NUMBER OF FASTENERS AND THE MINIMUM SPLICE LENGTH.
- ALL NAIL SIZES LISTED ARE COMMON NAILS. 10d COMMON MAY BE REPLACED BY 16d SINKERS. NO OTHER NAIL SUBSTITUTION IS ALLOWED FOR LAP SPLICES. IF WOOD SPLITTING OCCURS, USE EVERY OTHER NAIL HOLE AND LENGTHEN SPLICE TO ACCOMMODATE THE
- REQUIRED NUMBER OF NAILS. 6. ALL STRAPS TO BE INSTALLED UNDER SHEATHING.
- . TWO OPTIONS EXIST FOR COIL STRAP LAPPING. a. LAP ONE STRAP STACKED ON TOP OF THE OTHER STRAP b. INSTALL STRAPS SIDE BY SIDE - TO DO THIS A LARGER BLOCK MUST BE USED. THE BLOCK MUST BE ON
- SOLID PIECE. 8. STRAP TO BE INSTALLED TIGHT.





	dь FOR #3 THROUGH #8 dь FOR #9 THROUGH #11	FROM POINT OF T #5 AND SMALLER, FROM POINT OF T (2 1/2" MINIMUM)	PROVIDE $6d_b$ D = $6d_b$ FOR #6 THROUGH #8	
		NOTE: db = BAR D	DIAMETER	
AR SIZE	DIMENSION OF ST HOOKS, ALL		DIMENSION OF STANDARD 90° HOOKS, ALL GRADES	
	A	J	A	MARK DATE DES
#3	5"	3"	6"	
#4	6"	4"	8"	
#5	7"	5"	10"	
#6	8"	6"	1'-0"	
#7	10"	7"	1'-2"	
#8	11"	8"	1'-4"	
#9	1'-3"	11 3/4"	1'-7"	
#10	1'-5"	1'-1 1/4"	1'-10"	
#11	1'-7"	1'-2 3/4"	2'-0"	DATE:

SANTAQUIN SHOPS

ENTER ADDRESS HERE

DESIGN SEQUENCE PROJE	CT NO: 1904.01
CAD DWG FILE NO:	
DRAWN BY:	Z. Thorner
DESIGNED BY:	A. Higgs
DWG TYPE:	
PROJECT PHASE: NOT FC	R CONSTRUCTION

SHEET TITLE

ARW PROJECT NO:

SCHEDULES

											WOOD SHEAR W	ALL SCHEDULE
		(NOTE 8)	EDGE	NOMINAL	(NOTE 5)	C	CONNECTION NAILIN	G	(NOTE 7	ĹATE		
WALL MARK	LEVEL	PLYWOOD SHEATHING (CDX U.N.O.)	NAILING (E.N.) (SEE NOTES 2 & 3)	BOTTOM PLATE SIZE	NOM. STUD SIZE (MIN.)	NAILING TOP PL. TOGETHER B	BLKG. TO TOP PL. ©	TOP PL. SPLICE	ANCHOR DIA.	SPA.	COMMENTS	
SW-1	1ST TO ROOF	7/16"	6"o.c.	2x	2x	(40) 10d	A35 AT 24"o.c / 10d AT 6"o.c.	10d @ 6"o.c.	5/8" DIA.	32"o.c.		
SW-2	1ST TO ROOF	7/16"	4"o.c.	2x	2x	(40) 10d	A35 AT 18"o.c / 10d AT 4"o.c.	10d @ 6"o.c.	5/8" DIA.	32"o.c.		
-	407 70 0005	7/40"	Oll-	0	0	(40) 40 4	A35 AT 12"o.c /	404.0.00				
SW-3	1ST TO ROOF	7/16"	3"o.c.	2x	2x	(40) 10d	10d AT 3"o.c.	10d @ 6"o.c.	5/8" DIA.	24"o.c.		
-												

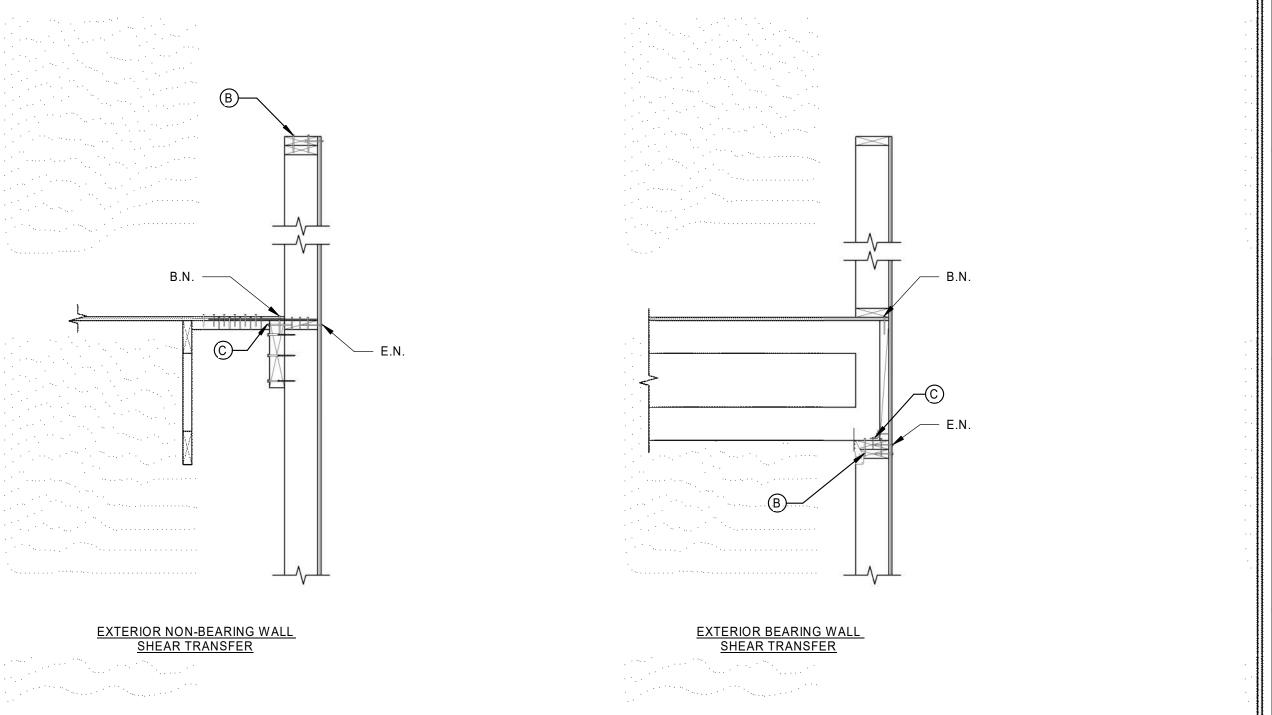
1. ALL SHEATHING PANEL EDGES TO BE BLOCKED. USE 3x BLOCKING WHERE 3x STUDS ARE REQUIRED.

2. ALL NAILS TO BE COMMON OR GALVANIZED BOX. 3. FIELD NAILING TO BE SAME NAILS @ 12"o.c.

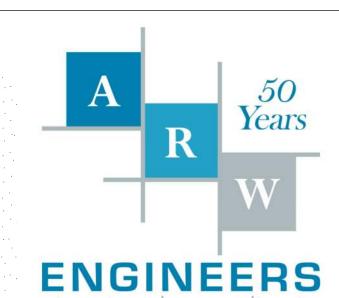
4. STAGGER E.N. AT DOUBLE TOP PLATES. 5. 3x NOMINAL FRAMING MEMBERS TO OCCUR AT ABUTTING PANEL EDGES. 2x NOMINAL FRAMING MEMBERS MAY BE USED AT INTERIOR OF PANEL, UNLESS NOTED OTHERWISE IN FLOOR FRAMING NOTES. (2) 2x

NAILED TOGETHER W/ (2) 16d NAILS @ 16"o.c. OR 4x NOMINAL FRAMING MEMBERS OF THE SAME DEPTH AND LUMBER GRADE MAY BE USED IN LIEU OF 3x MEMBERS AT CONTRACTOR OPTION. . SHEATHING SHALL BE STAMPED W/ APA STAMP. O.S.B. OF EQUIVALENT THICKNESS, GRADE, AND RATING MAY BE USED IN LIEU OF PLYWOOD. 7. ALL SILL PLATE ANCHOR BOLTS TO HAVE MINIMUM 8" EMBEDMENT INTO CONCRETE AS PER DETAIL 8/S201. SEE DETAIL 5/S202 FOR HOLDOWN ANCHORAGE REQUIREMENTS

8. SEE THIS SHEET FOR TYPICAL SHEAR TRANSFER DETAILS. 9. TOP PLATE SPLICE NAILING SHALL APPLY TO EACH SIDE OF THE SPLICE. THE LENGTH OF THE OVERLAP SHALL BE SUFFICIENT TO PREVENT SPLITTING (48" MIN.)



350 South 200 East, #106



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SANTAQUIN SHOPS

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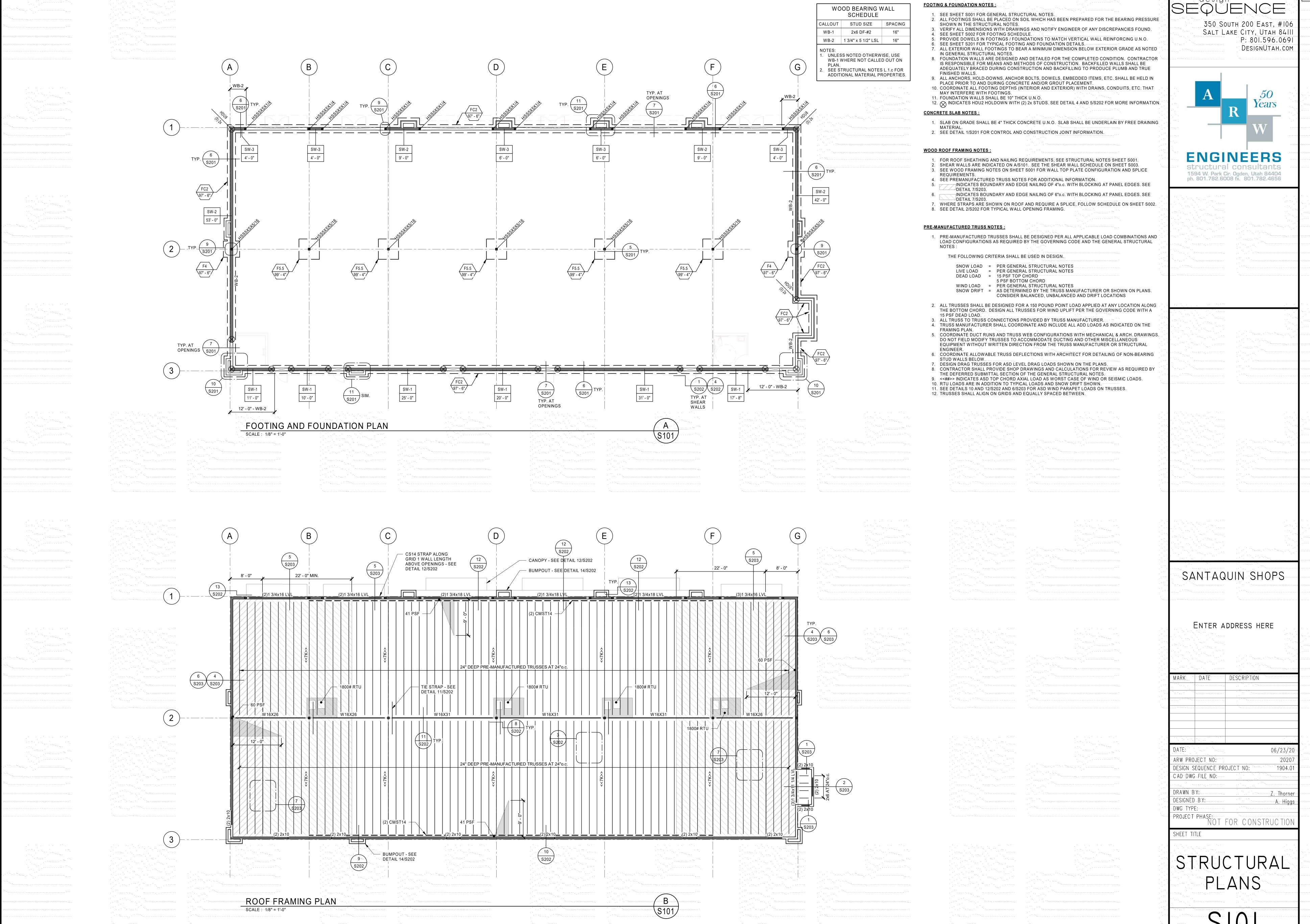
DESCRIPTION

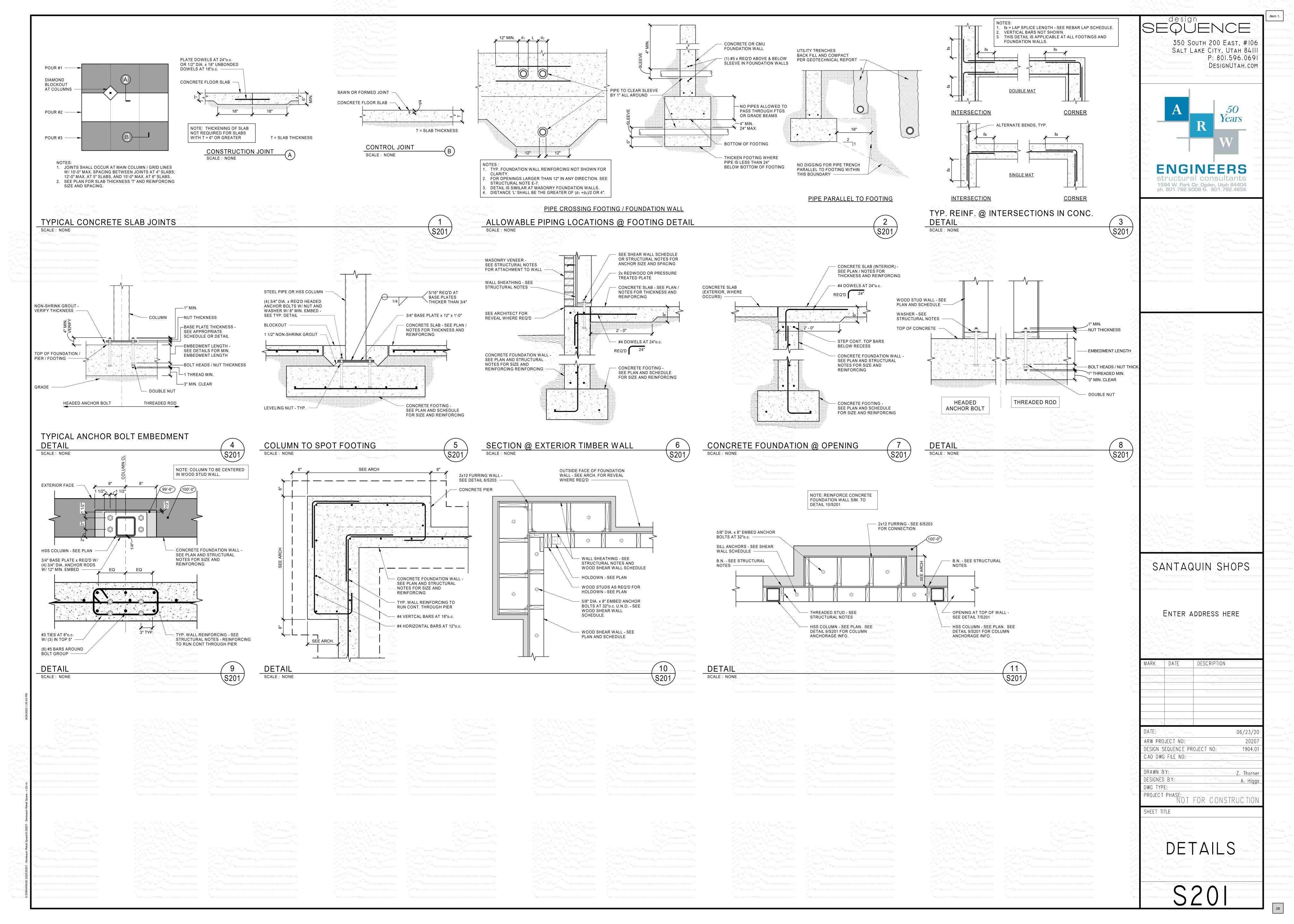
DATE:	06/23/20
ARW PROJECT NO:	20207
DESIGN SEQUENCE PROJI	ECT NO: 1904.01
CAD DWG FILE NO:	
DRAWN BY:	Z. Thorner
DESIGNED BY:	A. Higgs
	3 3

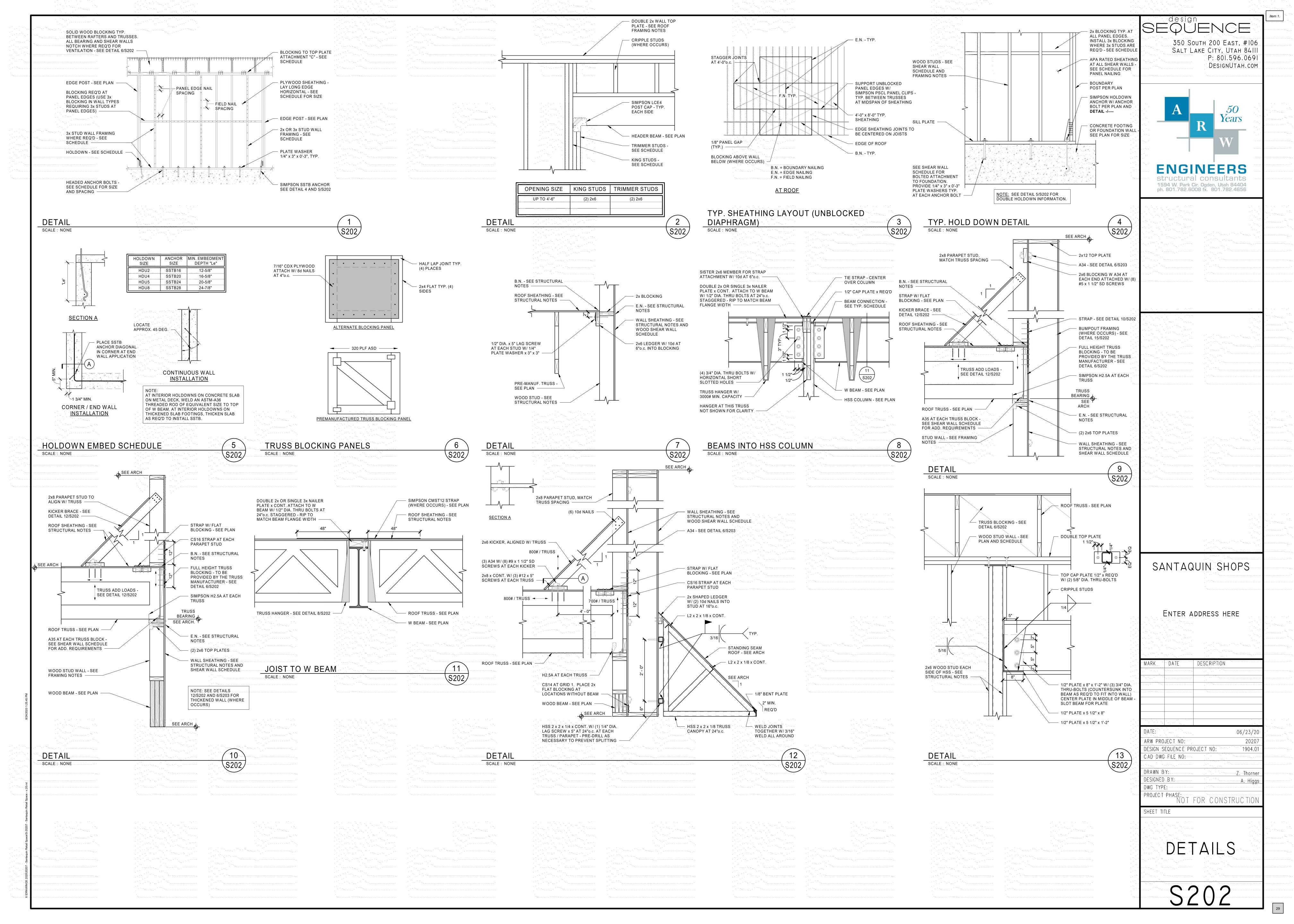
DWG TYPE: PROJECT PHASE ÖT FOR CONSTRUCTIOI

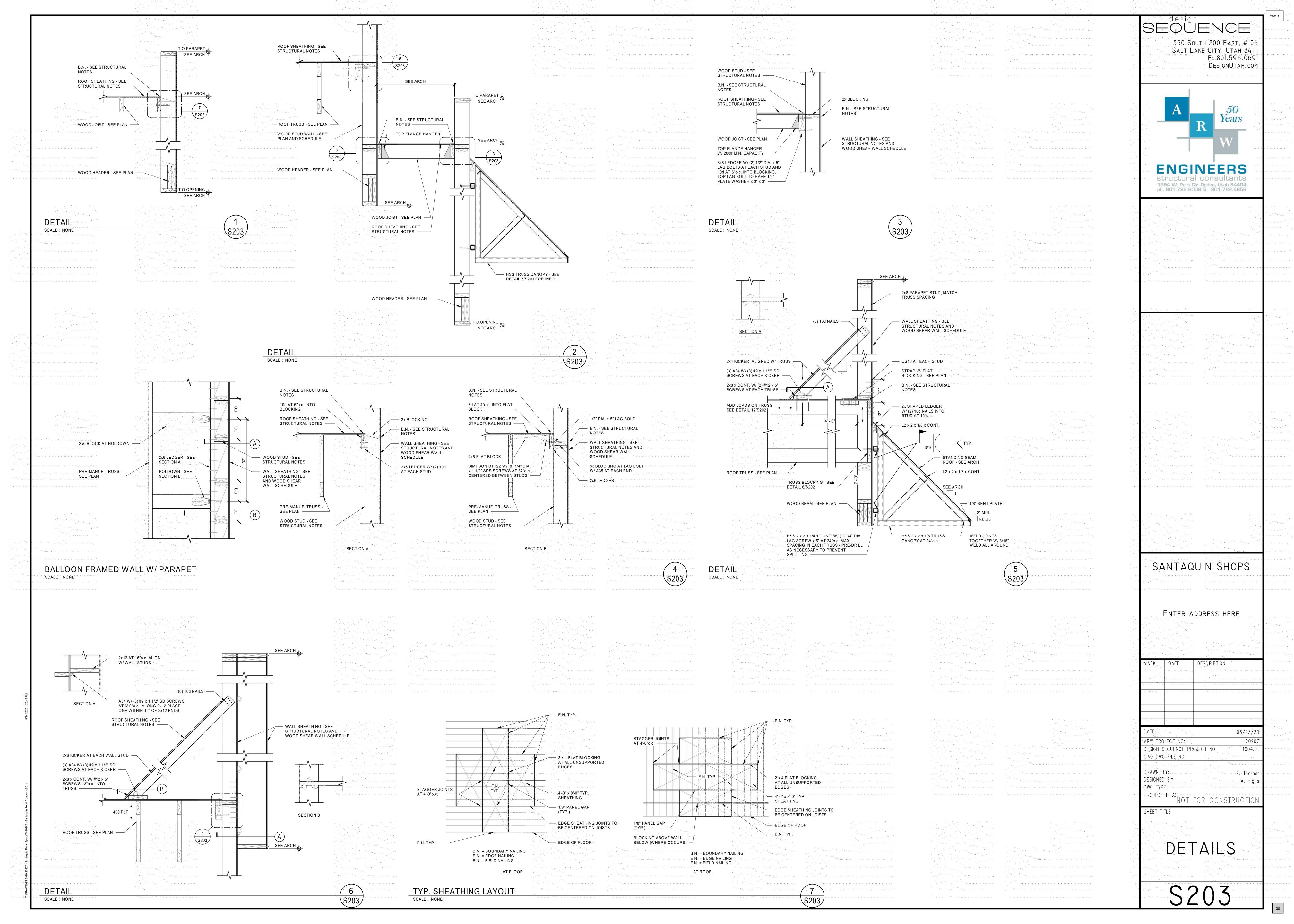
SHEET TITLE

SCHEDULES









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SALT LAKE CITY, UTAH 8411

DUCT-MOUNTED SMOKE DETECTOR	DSD
PIPING LEGEN	ID
BALL VALVE	
CHECK YALYE (SWING OR LIFT AS REQ'D)	
PRESSURE REDUCING VALVE	— >—
STRAINER	
PRESSURE GAUGE W/GAUGE COCK	<u> </u>
HOSE BIBB OR SILLCOCK	
REDUCED PRESSURE BACKFLOW PREVEN	TER-RPBP
DIRECTION OF FLOW	
ELBOW DOWN	
ELBOW UP	
PIPE CAP	
TEE DOWN	
UNION	
FLOOR DRAIN	
HUB DRAIN	0
ROOF DRAIN	0
WATER METER	
WALL CLEANOUT	G II
FLOOR OR GRADE CLEANOUT	ф—
GRADE CLEANOUT W/ CONCRETE PAD	<u>—</u> Ф
DOMESTIC COLD WATER (DCW)	
DOMESTIC HOT WATER (DHW)	
NATURAL GAS	NG
SANITARY (PLBG) VENT	V
SANITARY SEWER BELOW GRADE	 55
GREASE WASTE	GW
POOE DRAIN PIDING	

ROOF DRAIN PIPING

OVERFLOW DRAIN PIPING

--RD--

____*o*d____

GENERAL NOTES:

1. ALL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH: 2018 INTL. BUILDING CODE 2018 INTL. FUEL GAS CODE

2018 INTL. MECHANICAL CODE DRAWING NO. 2018 INTL. ENERGY CODE 2018 INTL. PLUMBING CODES. 2. DUCTWORK SHALL BE INSULATED AS FOLLOWS: LINED OR WRAPPED R-VALUE

RTU RECTANGULAR DUCTWORK: WRAPPED ROUND DUCTWORK: *ALL INSULATION TO MEET NFPA 90 PER UL 181-CLASS 1. NO DUCT BOARD ALLOWED.

3. ALL DUCTWORK SHALL BE CONSTRUCTED OF 2" W.C. SEAL CLASS "A".

- 4. ALL DUCTWORK IS TO BE INSTALLED AS HIGH AS POSSIBLE. ALL DUCTWORK MUST BE INSTALLED NO LOWER THAN 12" FROM WHERE IT IS BEING SUPPORTED OR SEISMIC BRACING WILL BE REQUIRED. IF DUCTWORK IS INSTALLED BELOW 12" FROM WHERE IT IS SUPPORTED, IT IS THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO HAVE SEISMIC SUPPORTS ENGINEERED FOR THE JOB BY A LICENSED ENGINEER.
- 5. CONTRACTORS SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN EQUIPMENT SCHEDULES TO THE ARCHITECT FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.
- 6. EACH TRADE IS RESPONSIBLE FOR THEIR OWN FIRE CAULKING. SEE ARCH. PLANS.
- 7. M.C. TO SUBMIT TO ENGINEER ALL AS-BUILDS OF BUILDINGS MECHANICAL SYSTEMS WITHIN 90 DAYS OF SYSTEM ACCEPTANCE.
- 8. ALL MECHANICAL EQUIPMENT SHALL BE LISTED, LABELED, AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PER IMC 301.7.
- 9. ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, OR SHEET METAL UNTIL THE FINAL STARTUP OF THE HEATING, COOLING, AND VENTILATION EQUIPMENT. FACTORY START-UP OF RTU'S REQUIRED.
- 10. CONTRACTORS SHALL PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILS OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES / WARRANTIES FOR EACH NEW SYSTEM. 11. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE AUTHORITY HAYING JURISDICTION.
- 12. THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION ADDITIONS OR AREAS OF ALTERATION WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HYAC SYSTEM IS USED DURING CONSTRUCTION, USE MERY 8 RETURN AIR FILTERS BASES ON ASHRAE 52.2 1999, OR AN AVERAGE EFFICIENCY OF 30% BASED ON ASHRAE 52.1 1999.
- 13. PIPE ROUTING AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
- 14. ALL WATER FLOW, PRESSURE, AND TEMPERATURE RATES MUST BE BALANCED TO THE VALUES INDICATED ON THE FLOOR PLANS. PROVIDE A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED PRIOR TO THE FINAL APPROVAL BY THE FIELD INSPECTOR. THIS REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES. T.A.B. CONTRACTOR BY OWNER.
- 15. INSULATE PIPING WITH FIBERGLASS PIPE COVERING WITH ALL SERVICE JACKET AND SELF-CAP SEAL. FITTINGS SHALL BE MITERED PIPING COVERING OF GLASS FIBER MOLDED FITTINGS FOR USE IN A RETURN AIR PLENUM. SEE PIPING INSULATION TABLE.
- 16. EACH TRADE IS RESPONSIBLE THEIR OWN FIRE CAULKING.
- 17. ALL INVERT ELEVATIONS SHOWN ON PLANS ARE BASED OFF OF FINISHED FLOOR ELEVATION AT 100.0'. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL AND CIVIL DRAWINGS FOR EXACT INVERT ELEVATIONS OF ALL LEVELS.
- 18. FLOOR DRAINS OR SIMILAR TRAPS DIRECTLY CONNECTED TO THE DRAINAGE SYSTEM AND SUBJECT TO INFREQUENT USE SHALL BE PROVIDED WITH AN APPROVED AUTOMATIC MEANS OF MAINTAINING THEIR WATER SEALS. SEE TG-1.
- 19. PUBLIC LAYATORIES SHALL HAVE CONTROLS TO LIMIT THE WATER TEMPERATURE TO 110°. SEE TY-1. 20. WATER PIPE AND FITTINGS WITH A LEAD CONTENT WHICH EXCEEDS 0.25% SHALL BE PROHIBITED IN SYSTEMS CONVEYING POTABLE WATER.
- 21. EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN 10 FEET FROM OR AT LEAST 3 FEET ABOVE
- ANY WINDOW, DOOR, OPENING, OR AIR INTAKE. 22. ALL ABANDONED EQUIPMENT, PIPING, COMPONENTS, AND ACCESSORIES SHALL BE REMOVED FROM
- 23. WATER HAMMER ARRESTORS: SIOUX CHIEF 660 SERIES. ADHERE TO PDI-WH 201 REQUIREMENTS FOR SIZING / LOCATIONS: TYPE A: 1-11 FIXTURE UNITS
- TYPE B: 12-32 FIXTURE UNITS TYPE C: 33-60 FIXTURE UNITS

THE FOLLOWING PIPING:

TYPE D: 61-113 FIXTURE UNITS

- 24. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
- 25. PIPE ENDS SHALL BE CAPPED WHEN WORK IS NOT BEING PERFORMED.
- 26. ALL EXPOSED NG PIPING IS TO BE PAINTED. APPLY ONE COAT OF DEVGUARD EXTERIOR, MULTI-PURPOSE PRIMER AND ONE COAT OF GRAY, UNIGRIP, WATER-BASED AQUACRYLIC SEMI-GLOSS
- 27. IPC 606.7: LABELING OF WATER DISTRIBUTION: THE IDENTIFICATION SHALL INDICATE PIPE CONTENTS AND THE DIRECTION OF FLOW IN THE PIPE. THE INTERVAL OF THE IDENTIFICATION MARKINGS NO THE PIPE SHALL NOT EXCEED 25'. THERE SHALL BE NOT
- 28. DOMESTIC COLD WATER, SANITARY SEWER (WHERE EXPOSED), VENT PIPING, NATURAL GAS (SEE ADDITIONAL REQUIREMENTS IN NOTE ABOVE).

LESS THAN ONE IDENTIFICATION LABEL ON EACH PIPE IN EACH ROOM, EACH SPACE. P.C. SHALL IDENTIFY

RTU NOTES:

- PROVIDE WITH 18" INSULATED CURB.

- PROVIDE WITH DRY BULB ECONOMIZER WITH BAROMETRIC RELIEF - PROVIDE WITH DISCONNECT - PROVIDE WITH UN-POWERED 115Y CONVENIENCE OUTLET
- FACTORY SMOKE DETECTORS IN SUPPLY AND RETURN DUCTS. CONNECTIONS BY MC. ELECTRICAL CONNECTIONS BY DIVISION 28. UNIT IS TO SHUT DOWN UPON SMOKE DETECTOR ACTIVATION. - PROVIDE 7 DAY PROGRAMMABLE DIGITAL THERMOSTAT WITH AUTO CHANGEOVER, 5 ° DEAD-BAND, SETBACKS (55° / 85°), 2 HOUR OCCUPANT OVERRIDE, 10 HOUR BACK-UP. - PROVIDE WITH 2" FILTER BANK AND 2" REPLACEABLE MERY 8 FILTERS. - PROVIDE CONDENSATE DRAIN WITH MINIMUM 3" DEEP TRAP - MC SHALL ENGAGE A FACTORY-PROVIDED SERVICE REPRESENTATIVE TO INSPECT. TEST, AND ADJUST RTUS AND COMPONENTS TO ENSURE
- PROPER INSTALLATION. - MANUFACTURER-PROVIDED SERVICE REPRESENTATIVE SHALL BE REQUIRED TO INSPECT EACH RTU AS IT IS POWERED W/ THE UNDERSTANDING THAT EACH RTU MAY BE POWERED AT DIFFERENT TIMES REQUIRING MULTIPLE SITE VISITS FOR EQUIPMENT INSPECTIONS. - MANUFACTURER-PROVIDED SERVICE REPRESENTATIVE SHALL PROVIDE THE OWNER / G.C. WITH WRITTEN DOCUMENTATION THAT ALL INSTALLATIONS ARE COMPLETE AND ACCURATE PER MANUF. STANDARDS.

POTABLE WATER DISINFECTION:

2018 IPC 610:

NEW / REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE. THE PIPING SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR. THE SYSTEM SHALL BE FILLED WITH WATER / CHLORINE SOLUTION CONTAINING NO LESS THAN 200 P.P.M. OF CHLORINE, AND THE SYSTEM SHALL BE YALVED OFF AND ALLOWED TO STAND FOR 3 HOURS. FOLLOWING STAND TIME, THE SYSTEM SHALL BE FLUSHED WITH CLEAN , POTABLE WATER UNTIL CHLORINE IS FLUSHED FROM THE SYSTEM. THIS PROCEDURE SHALL BE REPEATED UNTIL SYSTEM IS CLEAR AS INDICATED BY BACTERIOLOGICAL EXAMINATION. PROVIDE TEST / FLUSH DOCUMENTATION TO ENGINEER PRIOR TO PROJECT COMPLETION W/ BALANCE REPORT TO ENGINEER / ARCHITECT. P.C. TO COORDINATE TESTING PROCEDURE WITH PROJECT MANAGER.



Cooling Performa Total gross capacity Sensible gross capacity Total net capacity Sensible net capacity Seasonal Efficiency (at ARI) Efficiency (at ARI) Ambient DB temp. Entering DB temp. Entering WB temp. Leaving WB temp. Leaving WB temp. Power input (w/o blower) Sound power	50.5 MBH 30.6 MBH 48.5 MBH 28.6 MBH 15.00 SEER 12.20 EER 95.0 °F 77.5 °F 64.3 °F 56.6 °F 53.1 °F	System: ZJ049S06B2B5NAA
Total gross capacity Sensible gross capacity Total net capacity Sensible net capacity Sensible net capacity Seasonal Efficiency (at ARI) Efficiency (at ARI) Ambient DB temp. Entering DB temp. Entering WB temp. Leaving DB temp. Leaving WB temp. Power input (w/o blower)	50.5 MBH 30.6 MBH 48.5 MBH 28.6 MBH 15.00 SEER 12.20 EER 95.0 °F 77.5 °F 64.3 °F 56.6 °F	
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Total net capacity Sensible net capacity Seasonal Efficiency (at ARI) Efficiency (at ARI) Ambient DB temp. Entering DB temp. Entering WB temp. Leaving DB temp. Leaving WB temp. Power input (w/o blower)	28.6 MBH 15.00 SEER 12.20 EER 95.0 °F 77.5 °F 64.3 °F 56.6 °F	
Seasonal Efficiency (at ARI) Efficiency (at ARI) Ambient DB temp. Entering DB temp. Leaving DB temp. Leaving DB temp. Leaving WB temp. Power input (w/o blower)	15.00 SEER 12.20 EER 95.0 °F 77.5 °F 64.3 °F 56.6 °F	
Efficiency (at ARI) Ambient DB temp. Entering DB temp. Entering WB temp. Leaving DB temp. Leaving WB temp. Power input (w/o blower)	12.20 EER 95.0 °F 77.5 °F 64.3 °F 56.6 °F	
Ambient DB temp. Entering DB temp. Entering WB temp. Leaving DB temp. Leaving WB temp. Power input (w/o blower)	95.0 °F 77.5 °F 64.3 °F 56.6 °F	
Entering DB temp. Entering WB temp. Leaving DB temp. Leaving WB temp. Power input (w/o blower)	64.3 °F 56.6 °F	
Leaving DB temp. Leaving WB temp. Power input (w/o blower)	56.6 °F	
Leaving WB temp. Power input (w/o blower)		
	00.I F	
Sound power	3.14 kW	
	80 dB(A)	
Refrigerant Refrigerant type	R-410A	
Sys1	8 lbs 6 oz	
Gas Heating Perform Entering DB temp.	nance 60 °F	4 Ton
Heating output capacity (Max)	40.2 MBH	York Sun Pro units are manufactured at an ISO 9001 registered facility and
Supply air	1600 CFM	each rooftop is completely computer-run tested prior to shipment.
Heating input capacity (Max) Leaving DB temp.	49.2 MBH 87.4 °F	Unit Features
Air temp. rise	27.4 °F	Single Stage Cooling
SSE	81.5 %	60 MBH Input Stainless Steel, Two Stage Gas Heat
Stages	2	Unit Cabinet Constructed of Powder Painted Steel, Certified At 750 Hours Call Spray Tool (ASTM B 447 Standards)
Supply Air Blower Perf	1600 CFM	Salt Spray Test (ASTM B-117 Standards) • Full perimeter base rails with built in rigging capabilities
Supply air Ext. static pressure	0.6 IWG	Scroll Compressor[s]
Addl. Unit Losses (Options/Accessories)	0.12 IWG	Dry Bulb Low Leak Economizer w/Barometric Relief and Hoods (Bottom of the control of the co
Blower speed Max BHP of Motor (including service factor	901 RPM 1.73 HP	Horizontal End Return Only) with Economizer Fault Detection & Diagnosti
Duct location	Bottom	(Meets ASHRAE 90.1-2013, IECC 2015, California Title 24, AMCA 511).
Motor rating	1.50 HP	Slide-Out Blower/1.5 HP Belt Drive Motor Assembly
Actual required BHP Power input	.63 HP 0.58 kW	Solid Core Liquid Line Filter Driers
Elevation	4500 ft.	Unit Ships with 2" Throwaway Filters Poplessment Filters: 4 (24" x 46") Unit assents 2" or 4" wide filters.
Drive type	BELT	Replacement Filters: 4 - (24" x 16"). Unit accepts 2" or 4" wide filters. Non-Powered Convenience Outlet
Outside/Mixed A	ir	HACR Circuit Breaker/Disconnect
Outside Air Cfm	200 CFM	Short Circuit Current: 5kA RMS Symmetrical
Outside Air DB temp. Outsided Air WB temp.	95 °F 78 °F	Single Point Power Connection
Outside Air RH	47.3 %	Through-the-Curb and Through-the-Base Utility Connections
Return Air CFM	1400 CFM	Dirty Filter Switch
Return Air DB temp. Return Air WB temp.	75 °F 62 °F	Return Air Smoke Detector Micro Channel "all aluminum" academas asil. Connective (aluminum fin)
Return Air RH	48.1 %	Micro-Channel "all-aluminum" condenser coil, Copper tube/aluminum fin evaporator coil
Electrical Data		Composite Drain Pan - Front Connection
Power supply	208-3-60	Tool-free maintenance with features like hinged doors for all-access panel
Unit min circuit ampacity Unit max over-current protection	24.6 Amps 35 Amps	slide-out blower and blower motor tray
Dimensions & Wei		Standard Unit Controller: Smart Equipment Control Board
Hgt 42 in. Len 89 in.	Wth 59 in.	Safety Monitoring - Monitors the High and Low-Pressure Switches, the
Weight with factory installed options	960 lbs.	Freezestats, the Gas Valve, if Applicable, and the Temperature Limit Switch
Clearances		on Gas and Electric Heat Units. The Unit Control Board will Alarm on Ignit
Right 12 in. Front 36 in.	Rear 36 in.	Failures, Safety Lockouts and Repeated Limit Switch Trips.
Top 72 in. Bottom 0 in.	Left 36 in.	 BAS Controller Smart Equipment Controller including Discharge Air, Return Air, and Outdo
Note: Please refer to the tech guide for listed ma	aximum static pressures	Air Temperature Sensors.
ALRI CERTIFIED MERICAN AHRAEM		Warranty
www.ahridirectory.org	Aussistant 100 Root Castillo Castily Management System	One (1) Year Limited Warranty on the Complete Unit
		Five (5) Year Warranty - Compressors and Electric Heater Elements Compressors and Elements
		Fifteen (15) Year Limited Warranty - Stainless Steel Heat Exchanger

PLUMBING FIXTURE CONNECTION SCHEDULE - PAD C

PIPING MATERIAL SCHEDULE - IPC 2018									
SERVICE	PIPE MATERIAL	FITTINGS	JOINTS						
DOMESTIC WATER - ABOVE GRADE	TYPE "L" COPPER - ASTM B75, ASTM B88, ASTM B 251, ASTM	ASSE 1061, ASME B16.15, ASME B16.18, ASME B16.22, ASME	BRAZED: AWS A5.8. SOLDERED: ASTM B 828, ASTM B 32 W/ ASTM B 813 FLUX.						
	B447	B16.23, ASME B16.26, ASME B16.29	THREADED: ASME B1.20.1						
DRAIN, WASTE , AND VENT - ABOVE GRADE	CAST IRON - ASTM A74, ASTM A888, CISPI 301	ASME B16.4, ASME B16.12, ASTM A74, ASTM A888, CISPI 301	COMPRESSION: ASTM C564, ASTM C1563. HUBLESS: CISPI 310, ASTM C 1277 OR ASTM C1540, ASTM C564 OR CSA B602						
DRAIN, WASTE , AND VENT - BELOW GRADE	ABS, SCHED. 40, SOLID CELLULAR CORE,ASTM D 2661, ASTM F 628, ASTM F	ASTM D 2661, ASTM F 628, CSA B181.1	ASTM D 2235, CSA B181.1						
DRAIN, WASTE , AND VENT - BELOW GRADE	PVC, SCHED. 40, SOLID CELLULAR CORE, ASTM D 2665, ASTM F 891, ASTM F	ASTM D 2665, ASTM F 1866	ASTM D 3212						
NATURAL GAS	SCHED. 40 STEEL - ASTM A53/A53M OR ASME B36.10/10M OR ASME A106	THREADED: IFGC TABLE 403.9.2							

				FIXTURE TAG	DESCRIPTION	COLD	нот	WASTE	VENT	SPECIFICATIONS
SERVICE	PIPE MATERIAL	FITTINGS	JOINTS	DSN-3	DOWN SPOUT NOZZLE	N/A	N/A	4"	N/A	JR SMITH 1770-BS. NICKEL BRONZE. COORDINATE HEAT TRACE W/ E.C. TERMINATE 18" A.F.G.
	TYPE "L" COPPER -	ASSE 1061, ASME B16.15, ASME	BRAZED: AWS A5.8. SOLDERED: ASTM B	DSN-4	DOWN SPOUT NOZZLE	N/A	N/A	3"	N/A	JR SMITH 1770-BS. NICKEL BRONZE. COORDINATE HEAT TRACE W/ E.C. TERMINATE 18" A.F.G.
OMESTIC WATER - ABOVE GRADE	ASTM B75, ASTM B88, ASTM B 251, ASTM	B16.18, ASME B16.22, ASME	828, ASTM B 32 W/ ASTM B 813 FLUX.	FD-1	SQUARE FLOOR DRAIN	N/A	N/A	2"	2"	SIOUX CHIEF 832 SERIES. SQUARE TOP. NICKEL BRONZE. HINGED STRAINER. PROVIDE W/TG-1.
	B447	B16.23, ASME B16.26, ASME B16.29	THREADED: ASME B1.20.1	GCO-1	GRADE CLEAN OUT	N/A	N/A	4"	N/A	JR SMITH: 4237 ADJUSTABLE TOP, NON-TILT TRACTOR COVER. VANDAL PROOF SECURING SCREW. GALVANIZED CAST IRON TOP.
				<u>HB-C</u>	HOSE BIB - COLD	3/4"	N/A	N/A	N/A	WOODFORD 24P-3/4. INTEGRAL VACUUM BREAKER. CHROME
				<u>PRV-1</u>	PRESSURE REDUCING VALVE	1.S"	N/A	N/A	N/A	WATTS LF223S
			COMPRESSION:	<u>PRV-2</u>	PRESSURE REDUCING VALVE	3/4"	N/A	N/A	N/A	WATTS LF223S
RAIN, WASTE , AND	CAST IRON - ASTM	ASME B16.4, ASME B16.12, ASTM A74,	ASTM C564, ASTM C1563. HUBLESS:	<u>RD-3</u>	ROOF DRAIN	N/A	N/A	4"	N/A	JR SMITH: 1010Y-C-R-CI DOME. PROVIDE W/EXTENSION RING FOR OD. INSTALL INSULATION ON DRAIN BOWLS AND ALL HORIZONTALLY INSTALLED PIPING ABOVE GRADE.
NT - ABOVE GRADE	\perp Δ / Δ $\Delta S I M \Delta S S S$	ASTM A888, CISPI 301	CISPI 310, ASTM C 1277 OR ASTM C1540, ASTM C564	<u>RD-4</u>	ROOF DRAIN	N/A	N/A	3"	N/A	JR SMITH: 1010Y-C-R-CI DOME. PROVIDE W/ EXTENSION RING FOR OD. INSTALL INSULATION ON DRAIN BOWLS AND ALL HORIZONTALLY INSTALLED PIPING ABOVE GRADE.
		RPBP-1	REDUCED PRESSURE BACKFLOW PREVENTER	2"	N/A	3/4"	N/A	WATTS 009. LEAD FREE. 1/4 TURN VALVES. BRONZE STRAINER. STAINLESS HANDLES. UNION CONNECTIONS.		
	ABS, SCHED. 40,			<u>RH-1</u>	ROOF HYDRANT	3/4"	N/A	N/A	N/A	WOODFORD: SRH:MS W/INTEGRAL DUAL CHECK BACKFLOW, AIR VENT, AND FACTORY MOUNTING SYSTEM. ASSE 10S7/10S2
RAIN, WASTE , AND NT - BELOW GRADE	SOLID CELLULAR CORE,ASTM D 2661, ASTM F 628, ASTM F	ASTM D 2661, ASTM F 628, CSA B181.1	ASTM D 2235, CSA B181.1	<u>L-1</u>	WALL-HUNG LAVATORY	1/2"	1/2"	2"	1.5"	AMERICAN STANDARD: LUCERNE SNGLE HOLE. FAUCET: AMERICAN STANDARD SELECTRONIC 60SS.10S. 0.S GPM. VANDAL RESISTANT LAMINAR FLOW. PROVIDE W/ GRID STRAINER, TV-1, ADA INSULATION, P-TRAP W/ CLEANOUT. SET TV-1 TO 110 DEGREES (MAX)
	PVC, SCHED. 40,			<u>SC-1</u>	SILLCOCK	3/4"	N/A	N/A	N/A	WOODFORD MODEL B6S. INTEGRAL VACUUM BREAKER. CHROME LOCK BOX.
RAIN, WASTE , AND NT - BELOW GRADE	CORE, ASTM D 2665,	ASTM D 2665, ASTM F 1866	ASTM D 3212	<u>SV-1.S</u>	NG SEISMIC VALVE	N/A	N/A	N/A	N/A	CALIFORNIA (KOSO) MODEL 302 FOR HORIZONTAL INSTALLATION. (1.S" W/ UNIONS)
	ASTM F 891, ASTM F			<u>SV-2</u>	NG SEISMIC VALVE	N/A	N/A	N/A	N/A	CALIFORNIA (KOSO) MODEL 302 FOR HORIZONTAL INSTALLATION. 2" W/ UNIONS)
SCHED. 40 STEEL -			<u>TG-1</u>	TRAP GUARD	N/A	N/A	PER FIXTURE	N/A	RECTORSEAL: SURE SEAL. PROVIDE FOR INDIRECT WASTE RECPTORS WHICH DO NOT RECEIVE CONDENSATE.	
NATURAL GAS	ASTM A53/A53M OR	}	<u>TV-1</u>	TEMPERING VALVE	1/2"	1/2"	N/A	N/A	SYMMONS: 5-210-CK-MAXLINE. SET TO 110 DEGREES. ASSE	
ASME B36.10/10M TABLE 403.9.2 OR ASME A106			WC-1	WATER CLOSET - ADA (FLUSH VALVE - FLOOR MOUNT)	1"	N/A	4"	3"	AMERICAN STANDARD: MADERA. FLOOR MOUNT. W/ BENEKE OPEN FRONT SEAT. SLOAN VALVE: ROAYL 111DFSM 1.6 / 1.1. BATTERY OPERATED.	
MINIMUM PIP	E INSULATION THIC	CKNESS - 2018 IECC (C403.2.10	WHA-1	WATER HAMMER ARRESTOR (DOMESTIC)	SEE PLANS	SEE PLANS	N/A	N/A	SIOUX CHIEF: 660 SERIES. ADHERE TO PDI-WH201 REQUIREMENTS FOR SIZING / LOCATIONS. COORDINATE ACCESS PANELS W/ PM / OWNER.
						 				

	ELECTRIC WATER HEATER SCHEDULE EWH-											
PLAN CODE	AREA SERVED	CAP (GPM)	INPUT (KW)	TEMP RISE (#)		HEIGHT	DEPTH	OPERATING WEIGHT	POWER	MANUFACTURER & MODEL NO.	REMARKS	
EWH-1	ADA RESTROOM	(Ø.5)	4.1	56°	5 1/4"	10 ³ 4"	2 ⁷ ⁄8"	3.Ø LBS	208 / 1 (19.7 AMPS)	BRADFORD WHITE ES-4100-2-5-10	3/8" COMPRESSION CONNECTIONS	

PLAN CODE | SIZE | NECK |

DUTY

12" X 12" 8"Ø SQUARE SUPPLY

J P	PLY AIR DEVI	CE SCHEDULE		
	150-100-50	MANUFACTURER	MODEL	COMMENTS
				R6 INSULATED BACKPAN. RISE SUPPLY DUCT INTO JOIST SPACE FOR
	6'-9'-14'	PRICE	SPD	FINAL CONNECTIONS BY TENANT. RADIAL DAMPER ACCESSIBLE FROM

REMOVABLE FACE.

INSULATION CONDUCTIVITY

FLUID OPERATING | CONDUCTIVITY BTU X |

TEMP. RANGE (°F) 105 - 140

40-60

IN. / (H X FT² x °F)

0.21 - 0.28

0.21 - 0.27 0.20 - 0.29 NOMINAL PIPE SIZE

0.5

0.5

1" to < 1.5" | 1.5" to < 4"

0.50 1

1.5

WCO-1

					•										
	EXHAUST FAN SCHEDULE														
PLAN CODE	AREA SERVED	TYPE	CFM	ESP (W.C.")	RPM	HP	VOLTAGE / PHASE	SONES @ 5'-00"	DAMPER	DUCT	WEIGHT (LBS)	METHOD OF CONTROL	MANUFACTURER / MODEL	COMMENTS	
												INTERLOCK W/TIME CLOCK:		FACTORY ROOF CAP. VIBRATION	
<u>EF-1</u>	ADA RESTROOM	CEILING	150	0.25"	602	0.06	120 / 1	3	GRAVITY	6"Ø	11	INTERMATIC T101. 120 V @ NTE	CAPTIVE AIRE CFA-D150-CA	HANGERS (4). 3 AMP SPEED	
												40A / POLE.		CONTROLLER.	

INSTALL TYPE | MAX CFM | MAX N.C.

314

GYP.

	ELECTRIC UNIT HEATER														
CODE	MFR	MODEL	STYLE	CONTROL	ELECTRICAL DATA		WIDTH	DEPTH	HEIGHT	WEIGHT	CFM	REMARKS			
		NO.			VOLTS	PH	WATTS				(LBS)				
EH-1	BERKO / MARLEY	FRC-4820	RECESSED CABINET	INTEGRAL TSTAT	208	1	4800	15.75"	3 7/8"	19 5/16"	25	100	SET TO 40 DEGREES.		

		NATURAL G	AS CALCULATI	ONS - SANTAQUI	N PAD C		
DESC	CRIPTION	IDENTIFICATION	SERVES	PROVIDED BY	INPUT MBH	CFH	
F	RTU-1	ROOF TOP UNIT	WEST	M.C.	144.1	170	
F	RTU-2	ROOF TOP UNIT	CENTER	M.C.	144.1	170	
F	RTU-3	ROOF TOP UNIT	CENTER	M.C.	144.1	170	
RTU-4		ROOF TOP UNIT	EAST	M.C.	96.1	113	
					528.4	623	
BASIS OF	- DESIGN: 20	⊥ 018 IFGC TABLE 402.4	<u></u>				

MAXIMUM LENGTH OF RUN FROM METER TO EQUIPMENT REQUIREMENTS: 1. P.C. TO PROVIDE / INSTALL ISOLATION VALVE AT EACH PIECE OF EQUIPMENT

2. PRESSURE REGULATORS SHALL BE INSTALLED PER MANUF. REQUIREMENTS. B. PRESSURE REGULATORS SHALL BE MAXITROL, PIETRO FIORENTINI, OR EQUIVALENT

1. VALVES: BRASS BODY, FULL-PORT, PTFE SEAT, LEVER HANDLE, 150 PSIG, F.I.P. 5. EARTHQUAKE VALVES: CAST ALUMINUM BODY, SWING CHECK-VALVE, ACCELERATION-SENSITIVE , MECHANISM, SPRING ASSIST, OPEN / CLOSE INDICATOR, F.I.P, ASCE 25 COMPLIANT



SANTAQUIN RETAIL PAD C

DESCRIPTION

MARK DATE

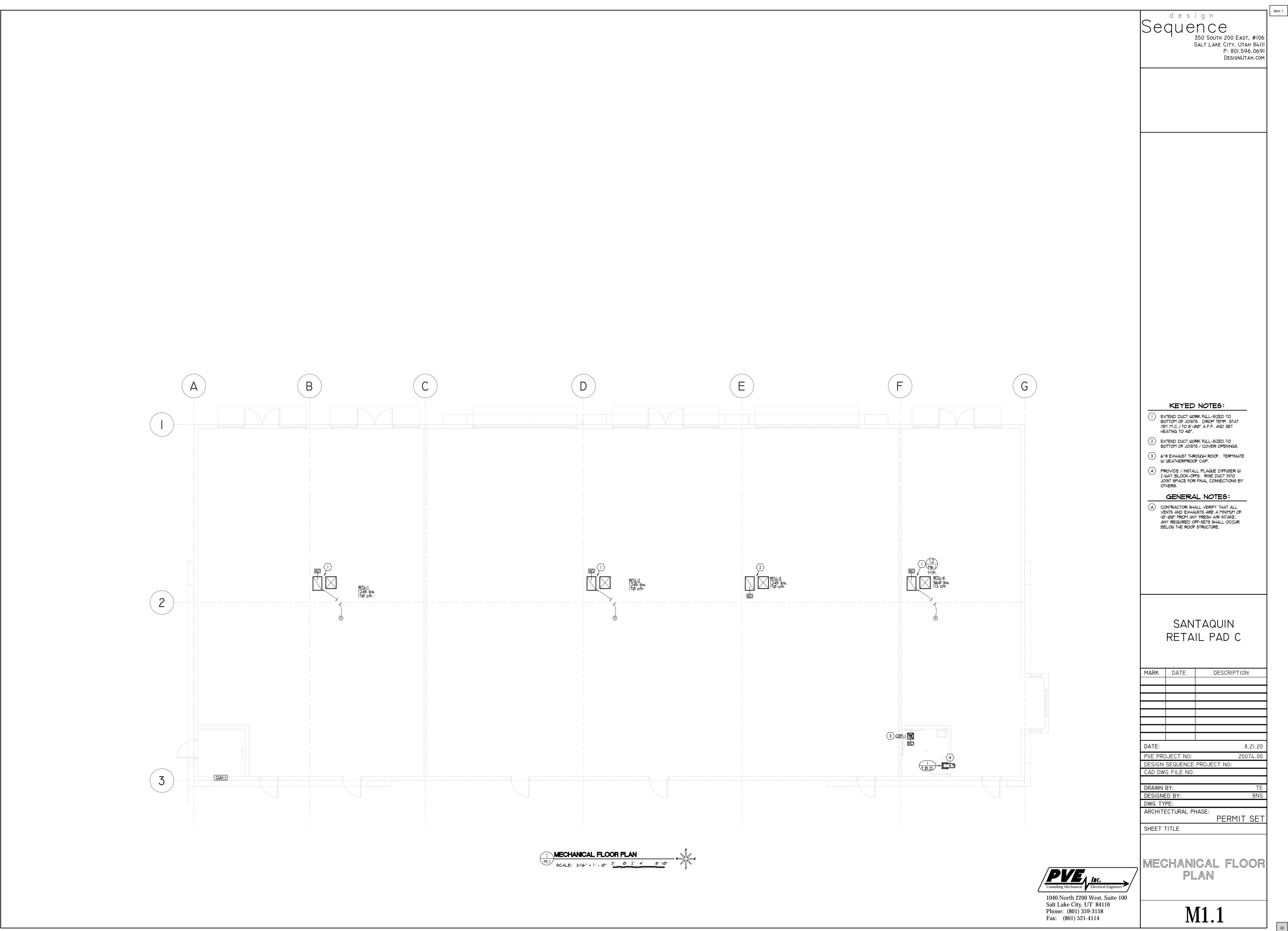
SHEET TITLE

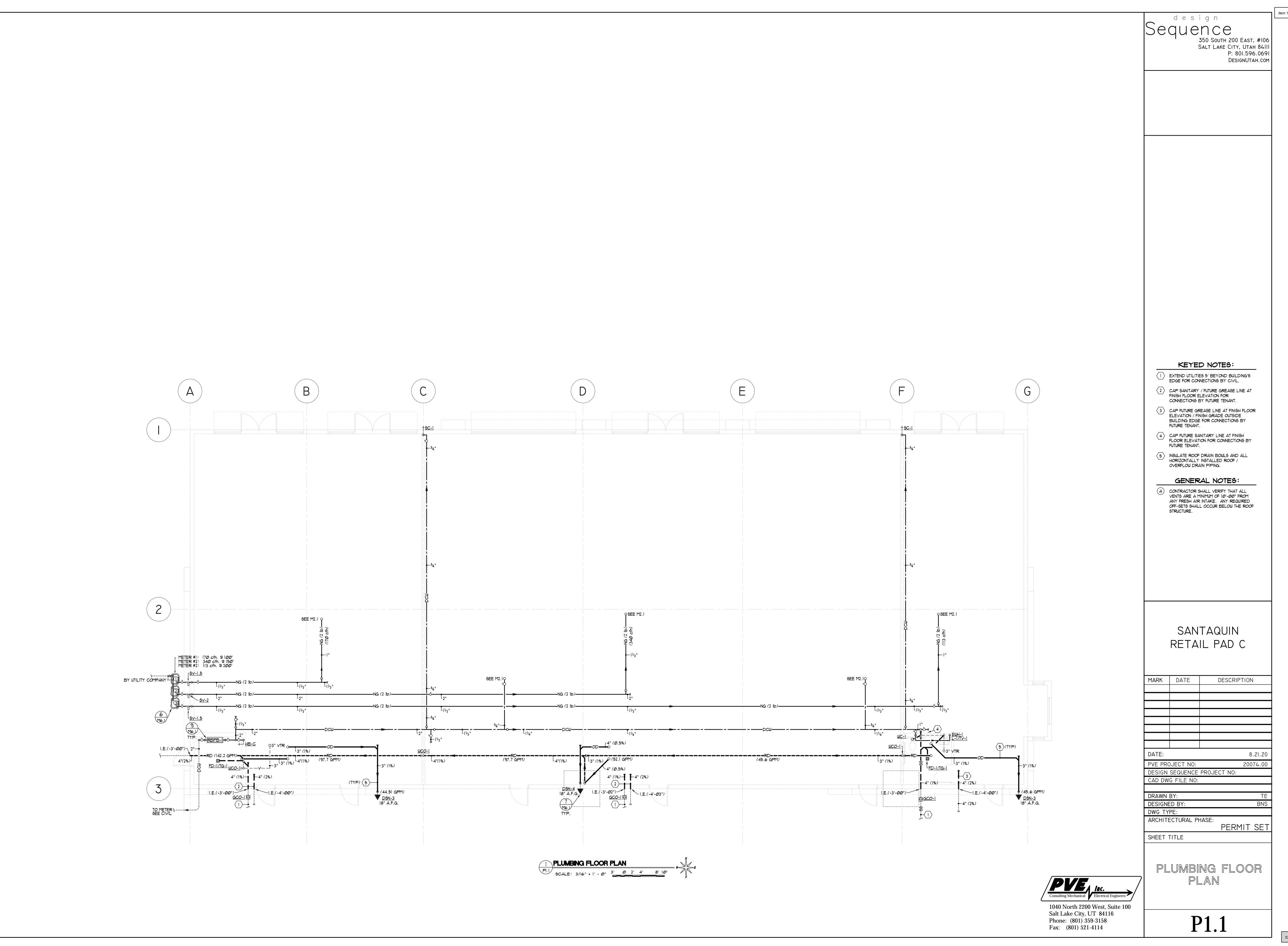
PVE PROJECT NO: 20074.00 DESIGN SEQUENCE PROJECT NO: CAD DWG FILE NO: DRAWN BY:

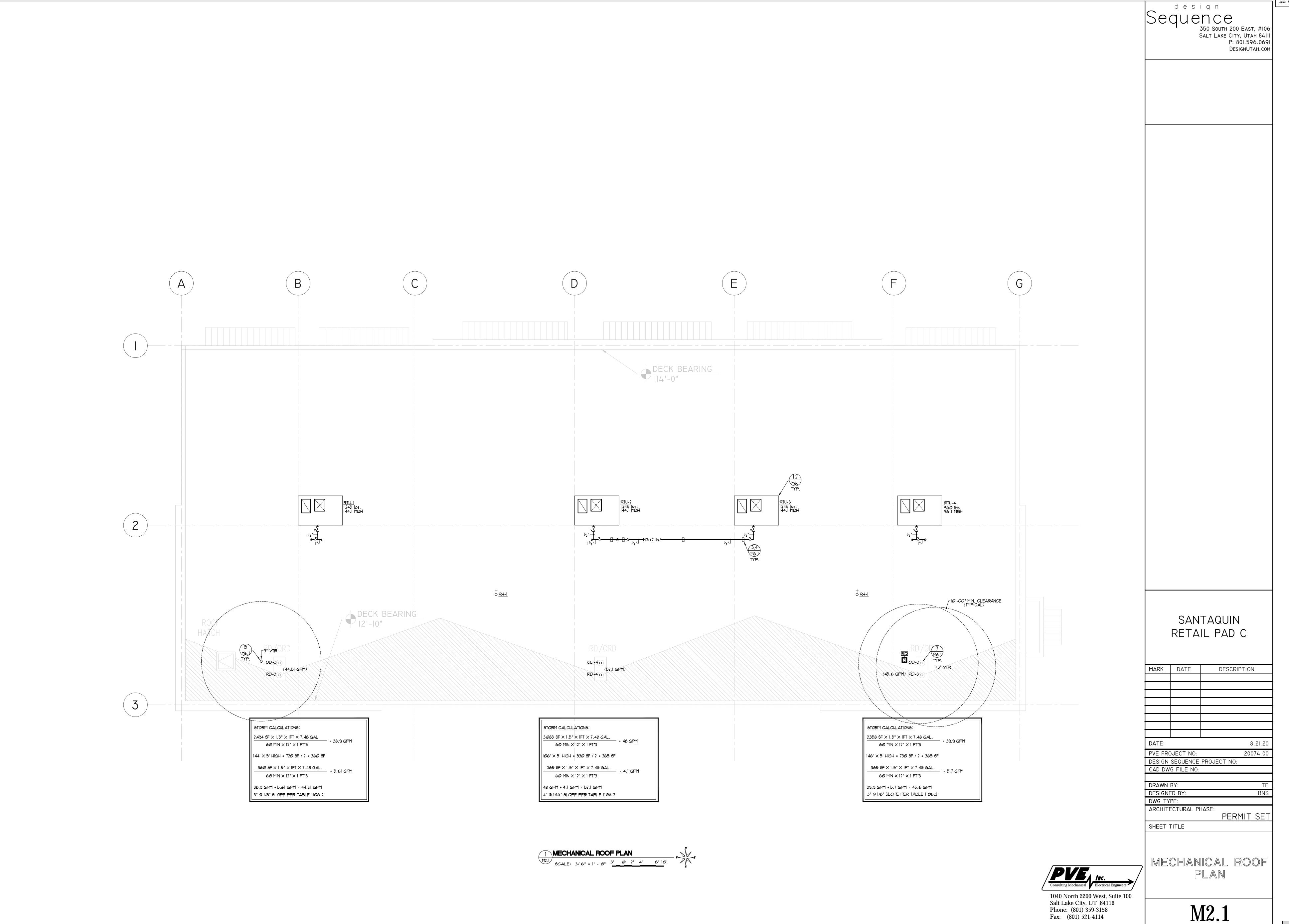
DESIGNED BY: DWG TYPE: ARCHITECTURAL PHASE: PERMIT SET

MECHANICAL & PLUMBING SCHEDULES

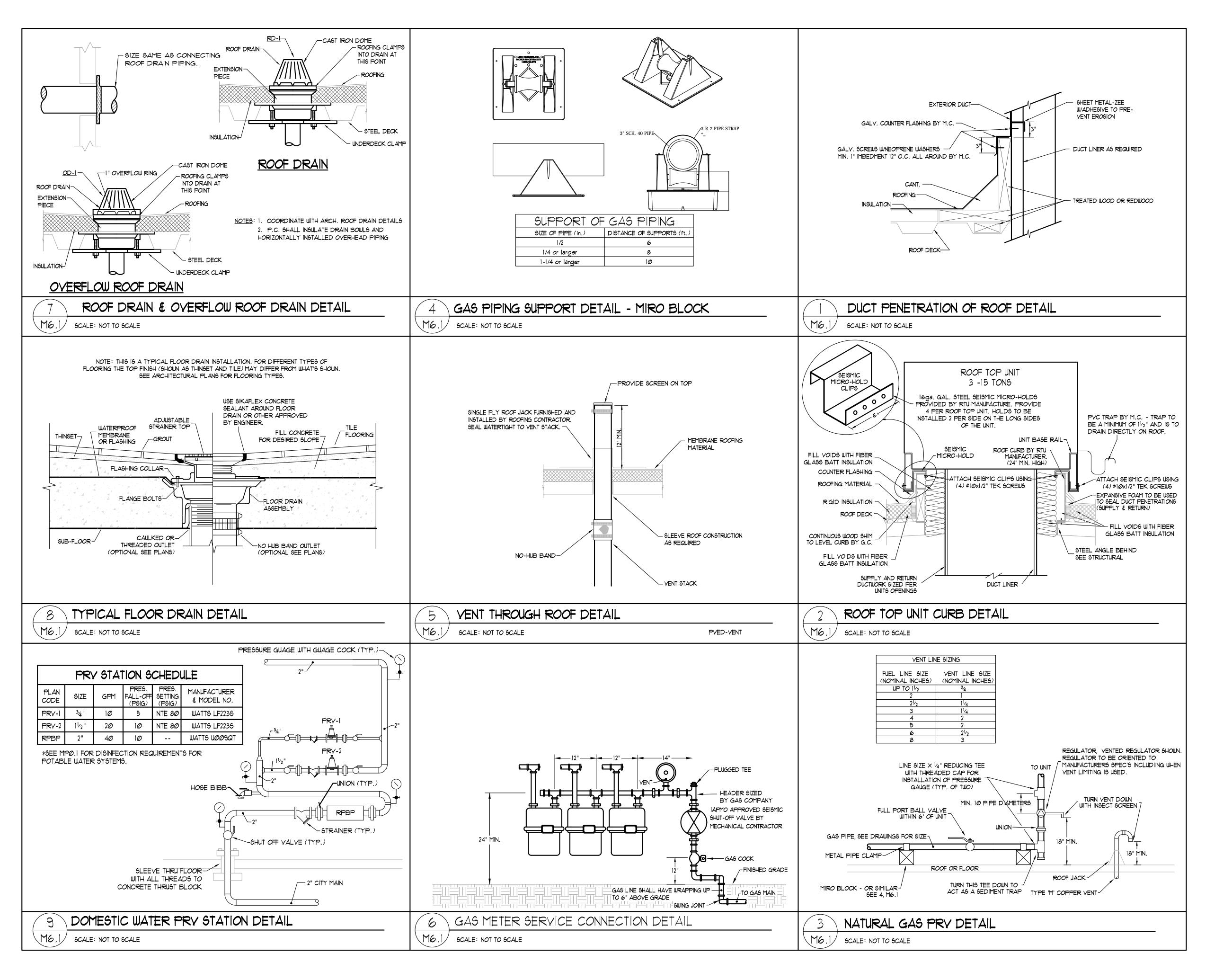
M0.1











SANTAQUIN RETAIL PAD C

MARK	DATE	DESCRIPTION
DATE:		0 21 20
DATE:		8.21.20
PVE PRO	DJECT NO:	20074.00

DESIGN SEQUENCE PROJECT NO: CAD DWG FILE NO: DRAWN BY:

DESIGNED BY: DWG TYPE: ARCHITECTURAL PHASE: PERMIT SET

SHEET TITLE

Consulting Mechanical Electrical Engineers

1040 North 2200 West, Suite 100

Salt Lake City, UT 84116

Phone: (801) 359-3158 Fax: (801) 521-4114

DETAILS

M6.1

BNS

GO CASE TERRORISE RELIGIONE CASE TERRORISE RELIGIONE <th>CVM AD C</th> <th>ELECTRICAL SYMBOL SCI</th> <th>I</th> <th>COMMENTO</th> <th>0//450</th> <th>ELECTRICAL SYMBOL S</th> <th></th> <th>-</th>	CVM AD C	ELECTRICAL SYMBOL SCI	I	COMMENTO	0//450	ELECTRICAL SYMBOL S		-
□			MOUNTING	COMMENTS	SYMBOL			С
December								
Comparison		·						
Company Comp	$\overline{\mathbb{X}}$	LUMINAIRE TYPE			0	SMOKE DETECTOR	CEILING	(9) (11)
Company Comp	XXX	DIAGRAM/DETAIL CALLOUT			(24	SMOKE DETECTOR, SOUNDER BASE	CEILING	(9)
March Marc		CONDUIT RUN CONCEALED IN WALL OR CEILING			Ю	SMOKE DETECTOR, SOUNDER BASE, WALL	7'-6"	(9) (11)
Description	UG	CONDUIT RUN CONCEALED IN FLOOR OR GROUND			()	SMOKE DETECTOR, SOUNDER BASE, VISUAL IND.	CEILING	(9)
CAMPAN		SURFACE RACEWAY/WIREMOLD			Ю	SMOKE DETECTOR, SOUNDER BASE, VISUAL IND., WALL	7'-6"	(9) (11)
March Mar		LOW VOLTAGE CONDUIT RUN			(O)	DUCT SMOKE DETECTOR	SEE MECH.	(9)
		DEMOLITION			FSD	FIRE/SMOKE DAMPER	SEE MECH.	
CONTITUE		EXISTING			(HEAT DETECTOR	CEILING	(9) (11)
MODER MODERNICATION MOD		HOME RUN TO PANEL			®<	BEAM DETECTOR, RECEIVER		(9)
■ MALE CHANGE AND		CONDUIT STUB				BEAM DETECTOR, TRANSMITTER		(9)
1						,		(9)
S	•					,		(9)
	<u> </u>				<u> </u>			
C							4' O"	(9) (11)
V	+					FIRE ALARM STROBE, ATTRIBUTE SIGNIFIES	-	(9) (11)
Part			18"				-	(9) (11)
▼ SECURITION PROPERTY 1 1 ▼ SECURITION PROPERTY 2 2 ▼ CONTRIBUTION PROPERTY 2 2 ▼ CONTRIBUTION PROPERTY PROPERTY 2 2 ▼ PROPERTY PROPE		<u> </u>		(6)		FIRE ALARM HORN STROBE, ATTRIBUTE SIGNIFIES	-	(9) (11)
▼ DESCRIPTION OF THE PARTY 9 9 9 9 9 9 9 9 9			18"				7'-6"	(9) (11)
Y	₩	DATA OUTLET, CUSTOM HEIGHT		(6)	· ·		7'-6"	(9) (11)
March Mar	A	DUAL DATA AND SINGLE TELEPHONE PORT	18"	,			7'-6" AFF	(9)
V ACCORDING THE ALTER AND EXPRESS AND AUTON 8 ACCORDING ACCORD COL III DEMOND IN JUNE AND EXPRISED AND AUTON ACCORD COL	₹			(6)	F●	FIRE ALARM CHIME	AS NOTED	(9)
MARCHAEL CONTROLOGIC NO. MARCHAEL MARCHAEL CONTROLOGIC MARCHAEL CONTROLOGIC NO. MARCHAEL CON	▼#		18"		•	ELECTRO MAGNETIC DOOR HOLDER	AS NOTED	
	abla	TELEPHONE OUTLET, SINGLE PORT, FLOOR MOUNTED	FLOOR		RM	RELAY MODULE		(9)
MARCOL STATION SALE REFS		DATA OUTLET, DUAL PORT, FLOOR MOUNTED	FLOOR		ММ	MONITOR MODULE		(9)
H. NUMBER CALL STOCK DESIGNATION 44° 10 10 10 10 10 10 10 1	•	TELEVISION OUTLET	AS NOTED	(6) (11)	CM	CONTROL MODULE		(9)
March Call, Styling Color (Marchaeler)	+•	NURSE CALL STATION, SINGLE BED	4'-11"	(11)	PS	PRESSURE SWITCH		(9)
MUSE OUL SYSTEM, COSE JULE MUSE OUL SYST	₩•	NURSE CALL STATION, DOUBLE BED	4'-11"	(11)	TS	TAMPER SWITCH		(9)
→ MARS CAL PALON MICHAEL SANDERS 24" 75		NURSE CALL STATION, EMERGENCY	4'-11"	(11)	FS	FLOW SWITCH		(9)
MARS CAL PALL ON HIN	-	NURSE CALL STATION, CODE BLUE	4'-11"	(11)	[M]	LOOP ISOLATION MODULE		(9)
O MARKE CALIDRELIGHT CRUIN OF THE PROPERTY AND ITS CONTROL OF THE PR	- • >	NURSE CALL STATION, MICROPHONE/SPEAKER UNIT	4'-11"	(11)		FIRE EXTINGUISHER MONITOR		(9)
WASHER ALL DIRECTION OF ALL		NURSE CALL PULL CHAIN				FIRE RISER	SEE PLANS	
■ SPENER WAL				,				(15)
				(11)				(15)
STANCE CONTROL WALL				440				
		· · · · · · · · · · · · · · · · · · ·					18"	
□					Φ Φ 🖶	STANDARD CONVENIENCE OUTLET, EMERGENCY	18"	
Delian		·		(11)	• • •	STANDARD CONVENIENCE OUTLET, SWITCHED	18"	
Comment Wall As NOTED Comment Wall Comment Wa		·			ŶŶ	STANDARD CONVENIENCE OUTLET, CUSTOM HEIGHT		
© SECURITY CAMERA, PRIZE CELLING		<u> </u>			♦ ♦	CONVENIENCE OUTLET, GFCI, CUSTOM HEIGHT		
March Mar		SECURITY CAMERA, FIXED	CEILING		Ø Ø Ø	CONVENIENCE OUTLET, ISOLATED GROUND	18"	
SECURITY CAMERA, PILE, WALL	③	SECURITY CAMERA, PTZ	CEILING			CONVENIENCE OUTLET, FLOOR	FLOOR	
SECOND CONTROL CONT	Ю	SECURITY CAMERA, FIXED, WALL	AS NOTED	(11)	Φ Φ ⊕	CONVENIENCE OUTLET, CEILING	CEILING	
SPECIAL PURPOSE OUTLET	Ю	SECURITY CAMERA, PTZ, WALL	AS NOTED	(11)	0 0	2 CIRCUITS TO EACH DEVICE	18"	
DURIS CURRENT	CR	CARD READER	4'-0"	(11)		COMBINATION POWER AND COMMUNICATION FLOOR BOX	FLOOR	
AUTO	\Phi	DOOR CONTACT	4'-0"	(11)				
Condition of the property o	\Diamond	REQUEST TO EXIT	4'-0"	(11)				
SELECTRIC STRIKE 4-0" (11)	♦	KEYPAD	4'-0"	(11)				
ELECTRIC STRIKE DEL ELECTRIC STRIKE 4-27 (11) DEL MAN DISTRIBUTION FRAME DEL MAN	·	ELECTRIC HINGE	4'-0"	(11)			AS NOTED	
ELECTRIC STRING. 4-0" (11) ■ BIOMETRIC READER A ANDES A ANDES ANDES ANDES ARE ANDES BIT ELEC, NON-METAL TUBING, NL. NIGHT LIGHT, BYPASS, LOCK, SWITCH, TOP B. LOCK, SWITCH OF BEREDOXED LOCK, SWITCH OF CONNECTION POPULAR PROVE PRINTED CAPACITY GO GORDINA FOR ADDRESS AND STRING CONTRACTOR POPULAR PRINTED CAPACITY GO GORDINA FOR ADDRESS AND STRING CONTRACTOR POPULAR PRINTED CAPACITY GO GORDINA FOR CONTROLLER SWITCH WITHOUT POPULAR PRINTED CAPACITY GO GORDINA FOR CONTROLLER SWITCH WITHOUT POPULAR PRINTED CAPACITY GO GORDINA FOR CONTROLLER SWITCH WITHOUT POPULAR PRINTED CAPACITY GO GORDINA FOR CONTROLLER SWITCH WITHOUT POPULAR PRINTED CAPACITY GO GORDINA FOR CONTROLLER SWITCH WITHOUT POPULAR PRINTED CAPACITY GO GORDINA FOR CONTROLLER SWITCH WITHOUT POPULAR PRINTED CAPACITY GO GORDINA FOR CONTROLLER SWITCH WITHOUT POPULAR PRINTED CAPACITY GO GORDINA FOR CONTROLLER SWITCH WITHOUT POPULAR PRINTED CAPACITY GO GORDINA FOR CONTROLLER SWITCH WITHOUT POPULAR PRINTED CAPACITY GO GORDINA FOR CONTROLLER SWITCH WITHOUT POPULAR PRINTED CAPACITY GO GORDINA FOR CONTROLLER SWITCH WITHOUT POPULAR PRINTED CAPACITY GO GORDINA FOR CONTROLLER SWITCH WITHOUT POPULAR PRINTED CAPACITY GO GORDINA FOR CONTROLLER SWITCH WITHOUT POPULAR PRINTED CAPACITY FIRM MANUAL SWITCH WITH THERMAL OVERLOAD BEG BELOW FINNSHED GRADE GO GORDINA FOR CONTROLLER SWITCH WITH FOR CAPACITY GO CONDUTT ONLY LENG GUERT CAPACITY GO GORDINA FOR CONTROLLER SWITCH WITH FOR CAPACITY TEMP CONTROL CONTROLLER SWITCH BY THE PRINTED CONTROLLER SWITCH WITH FOR CAPACITY TO LIGHT SWITCH WITH FOR CAPACITY TO LIGHT SWITCH BY AND	·			,				
SUBJECTION FLOWER SUBJECT SUBJ	•							
MAIN UIS RIGID TO PERAME 5-5-10 TO P	•			(11)			AS NOTED	(12)
A AMPS A AMPS AC AVAILABLE FAULT CURRENT ER ELCS. NON-METAL. TUBING AFC AVAILABLE FAULT CURRENT ER EXISTING TO BE RELOCATED AFG ABOVE FINISHED GRADE FOR EXCEPTION OF FLEXIBLE METAL CONDUIT POC POINT OF CONNECTION POC								(12)
A AMPS A AMPS AC AVAILABLE FAULT CURRENT E ACT AVAILABLE FAULT CURRENT BEC BELOW FINISHED GRADE BEC BELOW FINISHED CEILING BC BARE COOPPER GFC GRADE III GFC GRADE I	[IDF]		6'-6" TO TOP				FLOOR	(12)
AFF ABOVE FINISHED FLOOR EX EXISTING TO REMAIN PC PUMBING CONTRACTOR PAGE ABOVE FINISHED GRODE FMC FLEXIBLE METALCONDUIT POS POINT OF SALE RELOCATED POINT OF SALE RELOCATED POS POINT OF SALE RELOCATED POS POINT OF SALE RELOCATED POINT OF SALE REL		ENT ELEC. NON-METAL. TUBING		,		CLOCK OUTLET		
ANC AMPS INTERR. CAPACITY AWG AMERICAN WIRE GAUGE GEC GRND. ELLEC. COND. AT SES R AWG AMERICAN WIRE GAUGE GEC GRND. FLT. CRIR. INTERR. BEC BABAE COPPER GFC GRND. FLT. CRIR. INTERR. RELOCATED BEC BELOW FINISHED CELLING GND. GROUND RMC CONDUIT KOMIL 1000 CIRCULAR MILS (MCM) CONDUIT ONLY LEFM CUDIO-TIGHT FLEX. TEMP. CONTROL CONTR. UNO UNLESS NOTED OTHERWISE UNO UNLESS NOTED OTHERWISE CONTROL CONTROL UNO UNLESS NOTED OTHERWISE CONTR	AFF ABO	/E FINISHED FLOOR EX EXISTING TO REMAIN	PC PLUMB	SING CONTRACTOR	\$ ^M			
BC BARE COPPER GFCI GRND, FLT. CURR. INTERR. RM ROOF MOUNTED RNC RIGID METALLIC CONDUIT RNC RIGID NON-METALLIC ROOF ROOF ROOF ROOF ROOF ROOF ROOF ROO	AIC AMPS	SINTERR. CAPACITY GC GENERAL CONTRACTOR	POS POINT	OF SALE	\$ ^P			
BEG BELOW FINISHED GRADE INC INTER METAL CONDUIT RICE METAL CONDUIT IG ISOLATED GROUND CONDUIT KCMIL 1000 CIRCULAR MILS (MCM) CONDUIT KCMIL 1000 CIRCULAR MILS (MCM) CO CONDUIT NCMIL 1000 CIRCULAR MILS (MCM) CO CONDUIT NCMIL 1000 CIRCULAR MILS (MCM) CO CONDUIT NCMIL 1000 CIRCULAR MILS (MCM) CO CONDUIT ONLY LEMC LIQUID-TIGHT FLEX. T TRANSMITTER CU COPPER MATERIAL LENC CU COPPER MATERIAL LENC CU COPPER MATERIAL LENC LIQUID-TIGHT FLEX. UG UNDERGROUND NON-METAL. COND. T C TEMP. CONTROL CONTR. UNO UNLESS NOTED OTHERWISE UND LESS NOTED OTHERWISE	BC BARE	COPPER GFCI GRND. FLT. CURR. INTERR.	RM ROOF	MOUNTED	·	MANUAL SWITCH WITH THERMAL OVERLOAD		
CONDUIT KCMIL 1000 CIRCULAR MILS (MCM) SCA SHORT CIRCUIT AMPERES CONDUIT ONLY CONDUIT ONLY CT CURRENT TRANSDUCER METAL COND. TO TEMP. CONTROL CONTR. CU COPPER MATERIAL LEFIC LIQUID-TIGHT FLEX. UG UNDERGROUND DED DEDICATED NON-METAL COND. UNO UNLESS NOTED OTHERWISE CC ELECTRICAL CONTRACTOR MCA MINIMUM CIRCUIT AMPS MEC ELECTRICAL CONTRACTOR MCA MINIMUM CIRCUIT AMPS MED EXPLOSION PROOF MEM ELEC. METALLIC TUBING METALL COND. MON-METAL COND. MON-FUSED DISCONNECT SWITCH MON-FUSED DISCON	BFG BELC	W FINISHED GRADE IMC INTER. METAL CONDUIT	RNC RIGID I	NON-METALLIC COND.	\$ ^X	SINGLE POLE DOOR SWITCH		
CT CURRENT TRANSDUCER CU COPPER MATERIAL LENC LIQUID-TIGHT FLEX. UG UNDERGROUND DED DEDICATED NON-METAL. COND. UND UNLESS NOTED OTHERWISE DFA DROP FROM ABOVE EC ELECTRICAL CONTRACTOR EF EXHAUST FAN MINIMUM CIRCUIT AMPS WF VERIFY IN FIELD EF EXHAUST FAN EM EMER/JEGRESS BATTERY NSR EM EMER/JEGRESS BATTERY NSR EMT ELEC. METALLIC TUBING N NEW XR EXISTING TO BE REMOVED **NOTES** **NOTES** **NOTES** **NOTES** **NOTES** **PUSH BUTTON SWITCH, DOUBLE **BUSH BUTTON SWITCH, TRIPLE AS NOTED **DUSH BUSH BUTTON SWITCH, TRIPLE **NOTED **DUSH BUSH BUTTON SWITCH, TRIPLE **NOTED **DUSH BUSH BUTTON SWITCH, TRIPLE **AS NOTED **NOTED **DUSH BUSH BUTTON SWITCH, TRIPLE **NOTED **DUSH BUSH BUTTON SWITCH, TRIPLE **AS NOTED **NON-FUSED DISCONNECT SWITCH **(13) **IN SEE LUMINAIRE SCHEDULE FOR FIXTURE TYPES AND DETAILS. **(2) SEE LUMINAIRE SCHEDULE FOR MOUNTING REQUIREMENTS. **(3) WIRE LIGHT FIXTURE FROM ADJACENT J-BOX **(4) CONNECT NEAREST UN-SWITCHED HOT CONDUCTOR TO EMERGENCY BALLAST **(5) DIRECTIONAL ARROWS INDICATE REQUIRED CHEVRONS. **(6) COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL INTERIOR ELEVATIONS **(7) USE WITH POWER PACK. **(8) **X* IN SYMBOL IS INCHES BETWEEN RECEPTACLE ALONG WIREWAY. SEE DRAWINGS. **(9) PROVIDE UL LISTED DEVICE COMPATIBLE WITH THAT OF THE CONTROLLING CIRCUIT. **(13) **(13) **(13) **(14) **(15) **(15) **(15) **(16) **(15) **(16) **(17) **(17) **(17) **(18) **(19) **(19) **(19) **(19) **(19) **(19) **(19) **(19) **(10) **(10) **(10) **(10) **(11) **(11) **(12) **(11) **(12) **(12) **(13) **(14) **(15) **(15) **(15) **(16) **(17) **(CND CONI	DUIT KCMIL 1000 CIRCULAR MILS (MCM)	SCA SHORT	CIRCUIT AMPERES	•	PUSH BUTTON SWITCH, SINGLE	AS NOTED	
DEDI DEDICATED NON-METAL. COND. UNO UNLESS NOTED OTHERWISE DROP FROM ABOVE MC MECHANICAL CONTRACTOR VA VOLT/AMPS EC ELECTRICAL CONTRACTOR MCA MINIMUM CIRCUIT AMPS VIF VERIFIE ID DEFICE EXHAUST FAN N1 NEMA 1 WP WEATHERPROOF/NEMA 3R EMERALIC TUBING N NEW XR EXISTING TO BE REMOVED IN SEE LUMINAIRE SCHEDULE FOR FIXTURE TYPES AND DETAILS. (3) WIRE LIGHT FIXTURE FROM ADJACENT J-BOX (4) CONNECT NEAREST UN-SWITCHED HOT CONDUCTOR TO EMERGENCY BALLAST (5) DIRECTIONAL ARROWS INDICATE REQUIRED CHEVRONS. (6) COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL INTERIOR ELEVATIONS (7) USE WITH POWER PACK. (8) "X" IN SYMBOL IS INCHES BETWEEN RECEPTACLE ALONG WIREWAY. SEE DRAWINGS. (9) PROVIDE UL LISTED DEVICE COMPATIBLE WITH THE FIRE ALARM PANEL/SYSTEM. (10) MATCH THE VOLTAGE OF THE RELAY WITH THAT OF THE CONTROLLING CIRCUIT.	CT CUR	RENT TRANSDUCER METAL. COND.	TC TEMP.	CONTROL CONTR.	••	PUSH BUTTON SWITCH, DOUBLE	AS NOTED	
EC ELECTRICAL CONTRACTOR MCA MINIMUM CIRCUIT AMPS VIF VERIFY IN FIELD EF EXHAUST FAN N1 NEMA 1 WP WEATHERPROOF/NEMA 3R EM EMER/EGRESS BATTERY N3R NEMA 3R XP EXPLOSION PROOF EMT ELEC. METALLIC TUBING N NEW XR EXISTING TO BE REMOVED **NOTES** (1) SEE LUMINAIRE SCHEDULE FOR FIXTURE TYPES AND DETAILS. (2) SEE LUMINAIRE SCHEDULE FOR MOUNTING REQUIREMENTS. (3) WIRE LIGHT FIXTURE FROM ADJACENT J-BOX (4) CONNECT NEAREST UN-SWITCHED HOT CONDUCTOR TO EMERGENCY BALLAST (5) DIRECTIONAL ARROWS INDICATE REQUIRED CHEVRONS. (6) COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL INTERIOR ELEVATIONS (7) USE WITH POWER PACK. (8) "X" IN SYMBOL IS INCHES BETWEEN RECEPTACLE ALONG WIREWAY. SEE DRAWINGS. (9) PROVIDE UL LISTED DEVICE COMPATIBLE WITH THE FIRE ALARM PANEL/SYSTEM. (10) MATCH THE VOLTAGE OF THE RELAY WITH THAT OF THE CONTROLLING CIRCUIT. #D EMERGENCY POWER OFF (EPO) SWITCH (13) **WON-FUSED DISCONNECT SWITCH **D NON-FUSED DISCONNECT SWITCH (14) **WAGNETIC STARTER WITH FUSED DISCONNECT (15) **MAGNETIC STARTER WITH BREAKER DISCONNECT (16) **D WAGNETIC STARTER WITH BREAKER DISCONNECT (17) **POWER RELAY **MAGNETIC STARTER WITH BREAKER DISCONNECT (18) **POWER RELAY **POWER RELAY **MAGNETIC STARTER WITH BREAKER DISCONNECT (19) **POWER RELAY **POWER RELAY **POWER RELAY **MAGNETIC STARTER WITH BREAKER DISCONNECT (11) **POWER RELAY **MAGNETIC STARTER WITH BREAKER DISCONNECT (13) **POWER RELAY **MAGNETIC STARTER WITH BREAKER DISCONNECT (14) **POWER RELAY **MAGNETIC STARTER WITH BREAKER DISCONNECT (15) **POWER RELAY **MAGNETIC STARTER WITH BREAKER DISCONNECT (16) **POWER RELAY **MAGNETIC STARTER WITH BREAKER DISCONNECT (17) **POWER RELAY **MAGNETIC STARTER WITH BREAKER DISCONNECT (18) **POWER RELAY **MAGNETIC STARTER WITH BREAKER DISCONNECT (19) **POWER RELAY **MAGNETIC STARTER WITH BREAKER DISCONNECT (19) **POWER RELAY **MAGNETIC STARTER WITH BREAKER DISCONNECT (10) **POWER RELAY **MAGNETIC STARTER WITH BREAKER DISCONNECT (13)	DED DEDI	CATED NON-METAL. COND.	UNO UNLES	S NOTED OTHERWISE	•••	BUSH BUTTON SWITCH, TRIPLE	AS NOTED	
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(11) USE A 4" X 4" BOX WITH A MUD RING TO MATCH THE DEVICE AND INSTALLATION.	(10) MATCH	THE VOLTAGE OF THE RELAY WITH THAT OF THE CONTROLLING	G CIRCUIT.					

USE HEAVY DUTY DEVICE FOR 480 VOLT.
SIZE TO THE EQUIPMENT BEING CONTROLLED

5) FIRE ALARM PANELS: FACP: FIRE ALARM CONTROL PANEL, NAC: NOTIFICATION APPLIANCE

PANEL, ANNUN: GRAPHIC ANNUNCIATOR PANEL, AND SES: SMOKE EVACUATION SYSTEM

(16) LIGHT FIXTURES ARE SCALED WITHIN THE DRAWINGS BASED ON ACTUAL DIMENSIONS.

CAMBO	ELECTRICAL SYMBOL S		COMMENT
SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENT
<u> </u>	MOTOR OUTLET	B005	
<u> </u>	MOTOR OUTLET, ROOF MOUNTED	ROOF	
(D)	LIGHTNING PROTECTION AIR TERMINAL	ROOF	
<u> </u>	LIGHTNING PROTECTION BOND PLATE		
	LIGHTNING PROTECTION GROUND ROD	GROUND	
•	POKETHRU		
\oplus	UTILITY POWER POLE	SEE PLANS	
М	TRANSFORMER	SEE PLANS	
T	TRANSFORMER	SEE PLANS	
G	EMERGENCY GENERATOR	SEE PLANS	
	CABLE TRAY		
	MAIN DISTRIBUTION POWER PANEL		
	PANEL BOARD, SURFACE	6'-6" TO TOP	(15)
	PANEL BOARD, RECESSED	6'-6" TO TOP	(15)
	2x4 LINEAR LIGHT FIXTURE	CEILING	
			(1) (2) (3) (16)
	2x4 LINEAR EMERGENCY LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	2x2 LINEAR LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	2x2 LINEAR EMERGENCY LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	RECESSED LIGHT FIXTURE	CEILING	(1) (3)
	RECESSED EMERGENCY LIGHT FIXTURE	CEILING	(1) (3)
	RECESSED WALL WASH LIGHT FIXTURE	CEILING	(1) (3)
0	CEILING LIGHT FIXTURE	CEILING	(1) (2)
0	PENDANT/CHANDELIER LIGHT FIXTURE	SUSPENDED	(1) (2) (3)
Ю	WALL LIGHT FIXTURE, SURFACE	AS NOTED	(1) (2)
D	WALL LIGHT FIXTURE, RECESSED	AS NOTED	(1) (2)
<u>~</u>	TRACK LIGHT FIXTURE WITH TRACK	CEILING	(1) (2) (3)
*	CEILING FAN	SUSPENDED	
<u> </u>	FLOOD/LANDSCAPE/MONUMENT LIGHT FIXTURE	GROUND	(1) (2) (3)
<u></u>	AREA LIGHT FIXTURE	POLE	(1) (2)
—————————————————————————————————————	EXIT SIGN, WALL	7'-6"	(1) (2) (4) (5)
\otimes	EXIT SIGN	CEILING	
	EMERGENCY LIGHT FIXTURE, WALL	7'-6"	(1) (4) (5)
	PHOTO-ELECTRIC CELL		(1) (2)
P		AS NOTED	
<u> </u>	POWER PACK	CEILING	
§P	SLAVE PACK	CEILING	
MP	MINI POWER PACK	CEILING	
ECU	EMERGENCY CONTROL UNIT	CEILING	
①	DUAL TECHNOLOGY VACANCY SENSOR	CEILING	(7)
Ю	DUAL TECHNOLOGY VAC. SENSOR, WALL	AS NOTED	(7)
Ю	DUAL TECHNOLOGY VAC. SENSOR SWITCH, 1-BUTTON	4'-0"	(7)
Ю	DUAL TECHNOLOGY VAC. SENSOR SWITCH, 2-BUTTON	4'-0"	(7)
₩	DAYLIGHT SENSOR	CEILING	
©	MOTION SENSOR	AS NOTED	
•	PASSIVE INFRARED SENSOR	CEILING	
 \$	SINGLE POLE SWITCH	4'-0"	
\$ ²	DOUBLE POLE, SINGLE THROW SWITCH	4'-0"	
\$ \$ ³	THREE WAY SWITCH	4'-0"	
\$ \$a	THREE WAY SWITCH ATTRIBUTE SIGNIFIES FIXTURE	4'-0"	
	SWITCHING FOLIP WAY SWITCH		
\$ ⁴	FOUR WAY SWITCH	4'-0"	
\$\$ 	DUAL LEVEL SWITCH BANK	4'-0"	
\$	DIMMER SWITCH	4'-0"	
\$	LOW VOLTAGE SWITCH	4'-0"	
\$ ^K	KEYED SWITCH, SINGLE POLE	4'-0"	(15)
\$ ^T	7-DAY TIMER SWITCH, SINGLE POLE	4'-0"	(15)
TC	TIME CLOCK	AS NOTED	
\boxtimes	LIGHTING CONTROL PANEL, SURFACE	6'-6" TO TOP	

COMMENTS

(9) (11) (18)

(9) (11) (18)

(13)(14)

	Sheet List Table
Sheet Number	Sheet Title
EG001	ELECTRICAL NOTES & SYMBOLS
EG501	ELECTRICAL SPECIFICATIONS
EG502	ELECTRICAL DETAILS
EG601	ELECTRICAL SCHEDULES & ONE LINE
EG602	ELECTRICAL PANEL SCHEDULES
ES101	ELECTRICAL SITE PLAN
EP101	OVERALL ELECTRICAL PLAN
EP102	ELECTRICAL ROOF PLAN

GENERAL NOTES

- THE ELECTRICAL SYSTEMS DEFINED BY THESE PLANS AND SPECIFICATIONS ARE TO BE CONSTRUCTED AS COMPLETE AND OPERABLE SYSTEMS AND SHALL BE BID WITH THIS INTENT. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL THE RELEVANT DOCUMENTS AND BECOME FAMILIAR WITH THE TYPE OF CONSTRUCTION AND WORK TO BE ACCOMPLISHED. SHOULD ANY ERROR, OMISSION OR CONFLICT EXIST IN EITHER THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE SUBMITTING HIS BID PRICE SO A CHANGE CAN BE ISSUED IN A PRE-BID ADDENDUM. OTHERWISE, THE CONTRACTOR AND/OR EQUIPMENT SUPPLIER SHALL SUPPLY THE PROPER MATERIALS AND LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS AT THEIR OWN EXPENSE. WHEN EACH ELECTRICAL SYSTEM IS COMPLETE, THE CONTRACTOR SHALL TEST AND CONFIRM IT'S PROPER OPERATION. ANY INCOMPLETE SYSTEM SHALL BE MADE COMPLETE AND OPERABLE.
- 2. THE ARCHITECTURAL AND MECHANICAL PLANS ARE CONSIDERED A PART OF THE ELECTRICAL DOCUMENTS SO FAR AS ANY ELECTRICAL ITEMS THEY MAY CONTAIN. THE ELECTRICAL CONTRACTOR SHALL REFER TO AND COORDINATE WITH THEM. NO EXTRA COST SHALL BE ALLOWED FOR FAILURE TO COORDINATE THE CONTRACT DOCUMENTS WITH OTHER TRADES AND/OR IF EQUIPMENT DIMENSIONS ARE GREATER THAN SPECIFIED AND/OR DIMENSIONED ON THE PLANS.
- 3. NO ADDITIONS TO THE CONTRACTOR BID WILL BE ALLOWED FOR CHANGES MADE NECESSARY BY INTERFERENCE WITH OTHER WORK.
- 4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT, MATERIALS AND LABOR FOR THE CONNECTIONS OF ALL EQUIPMENT SHOWN ON THE PLANS ARCHITECTURAL, MECHANICAL, ETC.
- 5. THIS PROJECT IS TO BE INSTALLED IN STRICT ACCORDANCE WITH LOCAL AND STATE CODES AND THE NEC. IF AT ANY TIME DURING CONSTRUCTION, OR AFTER, SOMETHING IS FOUND TO BE INSTALLED IN VIOLATION OF THE CODES LISTED ABOVE, IT SHALL BE CORRECTED AT THE CONTRACTORS EXPENSE.
- 6. ALL EQUIPMENT PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, AND BE PROPERLY INSTALLED FOR THE CONDITIONS AND SPACE THAT EQUIPMENT IS BEING INSTALLED WITHIN.
- 7. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE POWER PANELS FROM WHICH NEW CIRCUITS ARE BEING FED FROM. VERIFY EXISTING BRANCH CIRCUIT BREAKERS AND PROVIDE NEW BREAKERS AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE TELE/DATA ROOM FROM WHICH NEW TELE/DATA OUTLETS WILL BE FED FROM. VERIFY EXISTING PATCH PANEL SPACES AND PROVIDE NEW PATCH PANELS AS NECESSARY TO LAND ALL NEW TELE/DATA CABLING.
- 9. THE ELECTRICAL CONTRACTOR SHALL INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN. CONDUIT SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR. THE ELECTRICAL CONTRACTOR SHALL GROUND THE ELECTRICAL SYSTEM IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
- 10. THE ELECTRICAL CONTRACTOR SHALL CONFIRM MINIMUM CODE (NEC) WORKING CLEARANCE BEFORE INSTALLING ANY ELECTRICAL PANELS, CABINETS, DISCONNECT, TRANSFORMERS, ETC. AND SHALL MOVE THE PANELS/EQUIPMENT AT HIS EXPENSE IF REJECTED BY AN INSPECTOR. IF CLEARANCE IS NOT POSSIBLE, THE DESIGNER SHALL BE NOTIFIED IMMEDIATELY IN WRITING.
- 11. CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMATIC, NOT INDICATING THE ROUTING REQUIRED. THE EC SHALL ROUTE THE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION AND SHALL COORDINATE WITH DUCTWORK, PIPING, EQUIPMENT, BUILDING STRUCTURE AND OTHER POTENTIAL OBSTRUCTIONS.
- 12. THE CONTRACTOR SHALL ALLOW THE MOVEMENT, BEFORE ROUGH-IN, OF ANY ELECTRICAL PANEL, DEVICE, LUMINAIRE, ETC. A DISTANCE OF 10 FEET WITHOUT REQUIRING ADDITIONAL COST TO THE PROJECT.
- 13. THE ELECTRICAL CONTRACTOR SHALL SECURE ALL CONDUIT TO THE STRUCTURE AS IT IS SET IN PLACE USING INDUSTRY STANDARD
- 14. MINIMUM SIZE CONDUIT SHALL BE 3/4". ABOVE GROUND CONDUIT SHALL BE EMT WITH STEEL SET SCREW FITTINGS. UNDERGROUND CONDUIT SHALL BE PVC (SCH40) WITH GRC ELBOWS AND RISERS WRAPPED IN CORROSION RESISTANT MATERIALS WHERE IN DIRECT
- 15. FLEXIBLE CONDUIT SHALL BE LIMITED TO CONNECTIONS TO LIGHT FIXTURES AND FINAL CONNECTIONS TO MOTORS OR OTHER EQUIPMENT SUBJECT TO VIBRATION. LENGTHS OF FLEXIBLE OR SEALTITE CONDUIT SHALL NOT BE GREATER THAN 72" INCHES.
- 16. WIRING DEVICES SHALL MATCH EXISTING COLOR AND FACEPLATE TYPE.
- 17. TO ASSURE ALL DEVICES ARE RIGIDLY SET, THE ELECTRICAL CONTRACTOR SHALL SECURE ALL DEVICE BOXES WITH BRACKETS, HANGERS, ETC. DESIGNED FOR THE APPLICATION. ANY DEVICE BOXES NOT SECURED WILL BE MADE SECURE AT THE CONTRACTORS EXPENSE.
- 18. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EMPTY CONDUITS WITH 200LB RATED NYLON PULL CORD.
- 19. BEFORE ANY ELECTRICAL CONDUIT, BOXES, ETC. ARE COVERED (FLOOR, CEILINGS, WALLS, ETC.), THEY SHALL BE APPROVED BY THE INSPECTING OFFICER (INSPECTIOR). THE UNCOVERING AND REPLACEMENT OF ELECTRICAL WORK FOR THE INSPECTION PURPOSES WILL BE AT THE COST OF THE ELECTRICAL CONTRACTOR.
- 20. ALL BATTERY POWERED OR CONTINUOUS BURN LUMINAIRES SHOWN ON THE PLANS, SUCH AS EXIT LIGHTS, NIGHT LIGHTS, OR EMERGENCY LIGHTS, SHALL BE CONNECTED TO THE UN-SWITCHED LEG OF THE LIGHTING CIRCUIT FEEDING THAT AREA.
- 21. LUMINAIRES INSTALLED IN THE MECHANICAL ROOM SHALL BE PLACED SO THAT ALL EQUIPMENT IS ADEQUATELY ILLUMINATED AFTER THE MECHANICAL EQUIPMENT IS IN PLACE.
- 22. ALL LUMINAIRES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AND NOT SOLELY FROM THE CEILING GRID OR OTHER
- NONSTRUCTURAL MEMBER.
- 23. TO MAINTAIN CONSISTENT LIGHT QUALITY, FOR ANY ONE LAMP TYPE SUPPLIED, LAMPS SHALL BE OF THE SAME MANUFACTURE, SURFACE TEMPERATURE, COLOR RENDERING INDEX, LAMP EFFICACY, LUMEN OUTPUT AND STARTING CHARACTERISTICS FOR ALL INSTALLED.
- 24. WHERE WIRE SIZE IS NOT SHOWN ON THE DRAWINGS FOR 20A, 120 OR 277VAC BRANCH CIRCUITS, THE CIRCUIT SHALL CONSIST OF 2#12(CU,THHN)+1#12(CU,THHN)GND IN 3/4" EMT CONDUIT. THIS WIRE SIZE SHALL BE INCREASED TO #10(CU,THHN) FOR 120VAC BRANCH CIRCUITS WITH OVERALL LENGTHS EXCEEDING 125' TO ACCOMMODATE FOR VOLTAGE DROP. REFER TO EQUIPMENT SCHEDULES, FEEDER SCHEDULES AND NOTES ON DRAWINGS FOR ALL OTHER BRANCH CIRCUIT AND FEEDER WIRE/CONDUIT SIZING.
- 25. CONDUCTORS SHALL BE COPPER, 600VAC RATED, TYPE THHN/THWN-2 UNLESS OTHERWISE NOTED. CONDUCTORS SIZES UP TO #10AWG SHALL BE SOLID AND #8AWG AND LARGER SHALL BE STRANDED.
- 26. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH EQUIPMENT SUPPLIERS ON THE EXACT LOCATIONS OF ALL EQUIPMENT AND ELECTRICAL CONNECTIONS PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL MAKE THE FINAL CONNECTION TO ALL EQUIPMENT UNLESS OTHERWISE DIRECTED BY THE EQUIPMENT SUPPLIER.
- 27. THE ELECTRICAL CONTRACTOR SHALL CLEAN THE ENTIRE ELECTRICAL SYSTEM AFTER COMPLETION OF THE INSTALLATION. REMOVE ALL FINGER PRINTS, FOREIGN MATTER, PAINT, DIRT, GREASE, UN-NEEDED LABELS OR STICKERS FROM FIXTURES AND EQUIPMENT. REMOVE ALL RUBBISH AND DEBRIS ACCUMULATED DURING INSTALLATION FROM THE PREMISIS.
- 28. OBTAIN FROM SUPPLIERS ALL WIRING DIAGRAMS FOR EQUIPMENT PRIOR TO ANY ROUGH-IN. TO ASSURE THAT PROPER CHARACTERISTICS ARE PROVIDED, ANY INCORRECT WIRING OR DEVICES INSTALLED BY THE ELECTRICAL CONTRACTOR WITHOUT THE WIRING DIAGRAM SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. PROVIDE COPIES OF WIRING DIAGRAMS WITHIN EACH PIECE OF EQUIPMENT AND ADDITIONAL COPIES WITH THE OPERATION AND MAINTENANCE MANUALS.
- 29. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR TO PROVIDE CONDUIT AND DEVICE MOUNTING BOXES FOR THERMOSTATS AND OTHER MECHANICAL CONTROLS.
- 30. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS FOR ALL DEVICES TO BE FLUSH MOUNTED AND CONDUIT/CABLING INSTALLED CONCEALED WITHIN WALLS/CEILINGS. IN AREAS WHERE CONDUIT MUST BE INSTALLED EXPOSED IT SHALL BE COORDINATED WITH THE ARCHITECT AND/OR ENGINEER. ALL EFFORTS SHALL BE MADE TO CONCEAL WIRING METHODS.
- 31. PROVIDE AN UPDATED, TYPED PANEL CIRCUIT DIRECTORY FOR ALL PANELS WHERE CIRCUITS HAVE BEEN MODIFIED, ADDED, OR REMOVED BY THE SCOPE OF THIS PROJECT. CIRCUIT DESCRIPTIONS ON THE DIRECTORY SHALL BE UNIQUE AND INDICATE THE ROOM AND EQUIPMENT/DEVICE IT IS FEEDING.



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SHEET TITLE

ELECTRICAL NOTES & SYMBOLS

EG001

ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

A DESCRIPTION

1. FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TRANSPORTATION AS REQUIRED TO PROPERLY INSTALL A COMPLETE AND OPERABLE ELECTRICAL SYSTEM.

B. RULES AND REGULATIONS

1. ALL WORK AND MATERIALS SHALL BE INSTALLED AS SHOWN AND HEREIN SPECIFIED.

- 2. THE LATEST EDITIONS OF THE FOLLOWING SPECIFICATIONS, STANDARDS, AND AMENDMENTS, AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION, SHALL FORM A PART OF THIS SPECIFICATION THE SAME AS IF HEREIN WRITTEN OUT IN FULL (ALL MATERIALS AND INSTALLATIONS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS THEREOF):
- a. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION), PUBLICATION NUMBER 70, "NATIONAL, ELECTRICAL CODE"; PUB. NO. 72E, "AUTOMATIC FIRE DETECTORS".
- b. UL (UNDERWRITERS LABORATORIES, INC.).
- c. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION).
- d. UBC (UNIFORM BUILDING CODE) AND STANDARD BUILDING CODE.
- d. UBC (UNIFORM BUILDING CODE) AND STANDAe. IBC (INTERNATIONAL BUILDING CODE)
- f. IFC (INTERNATIONAL FIRE CODE)
- g. IECC (INTERNATIONAL ENERGY CONSERVATION CODE)
- h. IEC (INTERNATIONAL ELECTRICAL CODE) STATE AND i. LOCAL BUILDING AUTHORITY AND CODES
- 3. NO REQUIREMENT TO THESE DRAWINGS AND SPECIFICATIONS SHALL BE CONSTRUCTED TO VOID ANY OF THE PROVISIONS OF THE ABOVE SPECIFICATIONS AND STANDARDS.
- C. PERMITS AND INSPECTIONS UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL APPLY, PAY FOR AND SCHEDULE ALL APPLICABLE PERMITS, FEES AND INSPECTIONS REQUIRED BY ANY AND ALL PUBLIC
- AUTHORITIES HAVING JURISDICTION AND REQUIRING INSPECTION.

 1 FC SHALL INCLUDE ALL LITTLITY COMPANY CHARGES IN THE BASE BID.
- 1. EC SHALL INCLUDE ALL UTILITY COMPANY CHARGES IN THE BASE BID.

D. WORKMANSHIP AND MATERIALS

- WORKMANSHIP SHALL BE OF THE BEST QUALITY AND NONE BUT COMPETENT PERSONNEL SKILLED IN THEIR TRADE SHALL BE EMPLOYED. THE CONTRACTOR SHALL FURNISH THE SERVICES OF AN EXPERIENCED SUPERINTENDENT, WHO WILL BE IN CHARGE OF THE EXECUTION OF WORK, UNTIL COMPLETED AND ACCEPTED.
- 2. UNLESS OTHERWISE HEREIN AFTER SPECIFIED, ALL MATERIALS AND EQUIPMENT UNDER THIS DIVISION OF THE SPECIFICATIONS SHALL BE NEW, OF BEST GRADE AND AS LISTED IN PRINTED CATALOGS OF THE MANUFACTURER. EACH ARTICLE OF IT'S KIND SHALL BE THE STANDARD PRODUCT OF A SINGLE MANUFACTURER.
- 3. THE OWNER'S REPRESENTATIVE SHALL HAVE THE RIGHT TO ACCEPT OR REJECT MATERIAL EQUIPMENT AND/OR WORKMANSHIP AND DETERMINE WHEN THEY HAVE COMPLIED WITH THE REQUIREMENTS HEREIN SPECIFIED.
- 4. ALL MANUFACTURED MATERIALS SHALL BE CLEARLY MARKED OR STAMPED WITH THE MANUFACTURER'S NAME AND RATING.
- REFERENCE TO STANDARDS ARE INTENDED TO BE THE LATEST REVISION OF THE STANDARD SPECIFIED, OR THAT ACCEPTED BY THE AUTHORITY HAVING JURISDICTION.

E. MANUFACTURER'S RECOMMENDATIONS

- 1. EQUIPMENT INSTALLED UNDER THIS DIVISION OF THE SPECIFICATIONS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR HEREIN SPECIFIED.
- F. GUARANTEE ALL MATERIALS AND EQUIPMENT PROVIDED AND INSTALLED UNDER THIS SECTION SHALL BE GUARANTEED FOR A MINIMUM OF ONE YEAR. SHOULD ANY TROUBLE OR MALFUNCTIONS DEVELOP DURING THIS PERIOD DUE TO DEFECTIVE MATERIALS OR FAULTY WORKMANSHIP, THE CONTRACTOR WILL BE HELD LIABLE AND SHALL FURNISH LABOR, MATERIALS AND EQUIPMENT NECESSARY TO CORRECT THE TROUBLE OR MALFUNCTION WITHOUT ADDITIONAL COST TO THE OWNER. ALL DEFECTIVE MATERIAL OR INFERIOR WORKMANSHIP NOTICED DURING THE TIME OF INSTALLATION SHALL BE CORRECTED IMMEDIATELY TO THE ENTIRE SATISFACTION OF THE ARCHITECT, ENGINEER AND OWNER, AT NO ADDITIONAL COST.

G. DEFINITIONS

- 1. "PROVIDE" MEANS FURNISH, INSTALL, AND CONNECT, UNLESS OTHERWISE INDICATED.
- "FURNISH" MEANS PURCHASE NEW AND DELIVER IN OPERATING ORDER TO PROJECT SITE.
 "INSTALL" MEANS TO PHYSICALLY INSTALL THE ITEMS IN-PLACE.
- 4. "CONNECT" MEANS MAKE FINAL ELECTRICAL CONNECTIONS FOR A COMPLETE OPERATING PIECE OF EQUIPMENT. THIS INCLUDES PROVIDING CONDUIT, WIRE, TERMINATIONS, ETC. AS APPLICABLE.
- 5. "OR EQUIVALENT" MEANS TO PROVIDE EQUIVALENT EQUIPMENT. SUCH EQUIPMENT MUST BE APPROVED BY THE ENGINEER PRIOR TO BIDDING.

H. SUBMITTALS

1. PROVIDE SHOP DRAWINGS AND MANUFACTURER'S LITERATURE OF MATERIALS AND EQUIPMENT AS REQUIRED IN THE GENERAL CONDITIONS, AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND AS LISTED BELOW:

2. CATALOG CUTS

- a. CIRCUIT BREAKERS (EACH SIZE AND TYPE)
- b. SAFETY SWITCHESc. MOTOR STARTERS
- d. THERMAL SWITCHES
- e. LIGHT FIXTURES

THE ABOVE IS A STANDARD SUBMITTAL REQUIREMENT LIST. ELECTRICAL CONTRACTOR SHALL SUBMIT ALL APPLICABLE ITEMS FOR REVIEW. MATERIAL NOT SUBMITTED AND APPROVED BY THE ARCHITECT, ENGINEER OR OWNER'S REPRESENTATIVE SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTORS COST IF DIRECTED BY THE ARCHITECT, ENGINEER OR THE OWNER'S REPRESENTATIVE.

PART 2 - MATERIALS

A. GENER

1. MATERIALS AND EQUIPMENT SHALL BE STANDARD CATALOGED PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE MANUFACTURE OF THE PRODUCT. UL LISTED, AND SHALL BE THE LATEST STANDARD DESIGN THAT CONFORMS TO SPECIFIED MATERIALS AND EQUIPMENT.

B. RACEWA

ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED IN INTERIOR DRY LOCATIONS.
 GALVANIZED FLEXIBLE STEEL (FMC) OR LIQUID TIGHT STEEL (LFMC) CONDUIT SHALL BE USED FOR

- CONNECTIONS TO MECHANICAL EQUIPMENT, LUMINAIRES AND TRANSFORMERS AND AS INDICATED.
 LIQUID TIGHT CONDUIT SHALL BE USED IN EXTERIOR OR DAMP LOCATIONS.
- 3. SCHEDULE 40 PVC (WITH PVC COATED OR VINYL TAPE DOUBLE WRAPPED RIGID STEEL ELBOWS AND RISES) SHALL BE USED FOR RUNS THAT ARE IN CONTACT WITH THE EARTH.
- 4. 3/4" CONDUIT SHALL BE THE MINIMUM SIZE CONDUIT.
- 5. OUTDOOR AND WET OR DAMP LOCATIONS: PROVIDE RIGID STEEL CONDUIT.

C. FITTINGS

1. ALL FITTINGS SHALL BE STEEL/MALLEABLE IRON WITH INSULATING BUSHINGS.

D. OUTLET AND JUNCTION BOXES

- 1. BOXES IN INTERIOR DRY LOCATIONS SHALL BE GALVANIZED ONE-PIECE PRESSED STEEL, KNOCKOUT TYPE, NOT LESS THAN 4 INCHES SQUARE AND 2 1/8" DEEP: APPLETON, RACO, OR FOLIAL
- NOT LESS THAN 4 INCHES SQUARE AND 2 1/8" DEEP; APPLETON, RACO, OR EQUAL.

 2. BOXES SHALL BE EQUIPPED WITH PLASTER RINGS, EXTENSION RINGS, AND FIXTURE STUDS AS REQUIRED.
- 3. BOXES FOR FLOOR OUTLETS SHALL BE OF THE CAST-METAL THREADED-CONDUIT-ENTRANCE,
 WATERPROOF TYPE WITH MEANS FOR ADJUSTING COVER PLATE TO FINISHED FLOOR LEVEL. BOXES
 SHALL BE SUCH AS HUBBELL B2503 OR EQUAL. THE COVER SHALL BE HUBBELL S3925, S3082 OR EQUAL TO
 MATCH THE FLOOR TYPE OR AS SHOWN ON THE PLANS.
- 4. PROVIDE FLUSH MOUNTING OUTLET BOX IN FINISHED AREAS.
- 5. BOXES FOR STRUCTURED CABLING (DATA & PHONE) IN INTERIOR DRY LOCATIONS SHALL BE GALVANIZED ONE-PIECE PRESSED STEEL, KNOCKOUT TYPE 4 11/16" x 2 1/8"; APPLETON, RAYCO OR EQUAL.
- 6. ALL BOXES IN FINISHED SPACES SHALL BE PROVIDED WITH MUD RINGS AS REQUIRED FOR THE DEVICE AND WALL MATERIAL.
- 7. OUTDOOR AND WET OR DAMP LOCATIONS: PROVIDE CAST METAL OR PVC OUTLET, JUNCTION, AND PULL BOXES.

E. CONDUCTORS

- 1. ALL CONDUCTORS SHALL BE SOFT DRAWN, ANNEALED COPPER IN RACEWAY SIZED AS SHOWN ON THE PLANS. ALL CONDUCTORS TO BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE #8 AWG AND LARGER SHALL BE STRANDED.
- 2. CONDUCTORS SHALL BE COPPER, THHN OR THWN-2 COLOR CODED IN ACCORDANCE WITH PART 3, SECTION C. 1. OF THESE SPECIFICATIONS OR AS INDICATED ON THE DRAWINGS.

F. WIRING CONNECTIONS

1. MAKE ALL ELECTRICAL CONNECTIONS.

- 2. MAKE CONNECTION TO DEVICES USING "PIG-TAILS". DO NOT USE A DEVICE AS A CONNECTION OR A SPLICE UNIT.
- 3. DO NOT PLACE STRANDED CONDUCTORS DIRECTLY UNDER SCREWS. INSTALL CRIMP-ON, INSULATED, FORK TERMINALS FOR CONDUCTOR TERMINATIONS, OR INSTALL SOLID CONDUCTORS.

G. NAMEPLATES

1. PROVIDE EACH PANEL BOARD, DISCONNECT SWITCH, AND BREAKER IN SWITCHBOARD WITH A MICARTA PLASTIC NAMEPLATE MADE OF WHITE-FACED BLACKCORE PLASTIC LAMINATE. NAMEPLATE SHALL BE MINIMUM 3" WIDE BY 3/4" HIGH FOR PANEL BOARD IDENTIFICATION INCLUDE DESIGNATION, PHASE, VOLTAGE, AND CIRCUIT NUMBER. FASTEN WITH EPOXY GLUE. DOUBLE STICK TAPE IS NOT ACCEPTABLE

J. FRACTIONAL HORSEPOWER MANUAL STARTER

- 1. PROVIDE FRACTIONAL HORSEPOWER MANUAL STARTER WITH THE FOLLOWING FEATURES.
- a. MELTING ALLOY TYPE THERMAL OVERLOAD RELAY
- b. RED NEON PILOT LIGHT
- c. THERMAL ELEMENT SIZED FOR MOTOR LOAD
 2. PROVIDE A NAMEPLATE ON EACH COMPONENT OF MOTOR CONTROL EQUIPMENT AS SPECIFIED IN
- "NAMEPLATES".

K. SAFETY SWITCHES

- 1. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL SAFETY SWITCHES AS INDICATED ON THE DRAWINGS OR AS REQUIRED. ALL SAFETY SWITCHES SHALL BE UL LISTED. THE SWITCHES SHALL BE FUSED SAFETY SWITCHES OR NON-FUSED SAFETY SWITCHES AS SHOWN ON THE DRAWINGS OR REQUIRED BY CODE AND SHALL BE MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, SIEMENS OR CUTLER HAMMER.
- 2. SWITCHES SHALL HAVE A QUICK-MAKE AND QUICK-BREAK OPERATING HANDLE AND MECHANISM WHICH SHALL BE AN INTEGRAL PART OF THE BOX. PADLOCKING PROVISIONS SHALL BE PROVIDED FOR PADLOCKING IN THE OFF POSITION WITH AT LEAST THREE PADLOCKS. SWITCHES SHALL BE HORSEPOWER RATED FOR 250 VOLTS AC OR DC OR 600 VOLTS AC AS REQUIRED. LUGS SHALL BE UL LISTED FOR COPPER AND ALUMINUM CABLE AND SHALL HAVE A TEMPERATURE RATING OF AT LEAST 75 DEGREES C.
- 3. SWITCHES SHALL BE FURNISHED IN NEMA 1 HEAVY DUTY ENCLOSURES WITH KNOCKOUTS UNLESS OTHERWISE NOTED OR REQUIRED. SWITCHES LOCATED ON THE EXTERIOR OF THE BUILDING OR IN "WET" LOCATIONS SHALL HAVE NEMA 3R ENCLOSURES (WP).
- 4. THE SAFETY SWITCHES SHALL BE SECURELY MOUNTED IN ACCORDANCE WITH THE NEC. THE CONTRACTOR SHALL PROVIDE ALL MOUNTING MATERIALS AND INSTALL FUSES IN THE FUSED SAFETY SWITCHES. THE FUSES SHALL BE DUAL ELEMENT ON MOTOR CIRCUITS.
- 5. PROVIDE FUSES AS SPECIFIED BELOW. FUSES SHALL BE INSTALLED SO THAT THE RATING IS CLEARLY VISIBLE WITHOUT REMOVING FUSE. PROVIDE A SPARE FUSE FOR EACH FUSE INSTALLED.
- 6. PROVIDE A NAMEPLATE ON EACH DISCONNECT SWITCH AS SPECIFIED IN "NAMEPLATES".

L. FUSES

- 1. FUSES SHALL BE CLASS "RK-1" REJECTION TYPE. FUSES SERVING MOTOR LOADS SHALL BE DUAL ELEMENT WITH A MINIMUM TIME DELAY OF 10 SECONDS AT 500% RATING. FUSES SHALL BE CURRENT LIMITING TIME DELAY TYPE WITH INTERRUPTING CAPACITY OF 200,000 AMP RMS SYMMETRICAL.
- 2. FUSES SERVING SWITCH OR CIRCUIT BREAKER DISTRIBUTION PANELS, LIGHTING PANEL BOARDS AND OTHER NON - MOTOR LOADS NEED NOT BE TIME DELAY TYPE, BUT SHALL BE CURRENT LIMITING WITH THE INTERRUPTING CAPACITY OF 200,000AMP RMS SYMMETRICAL MINIMUM. FUSES SHALL BE BUSSMAN, GOULD OR LITTELFUSE.
- 3. PROVIDE FUSES SIZED TO THE MAXIMUM SIZE RECOMMENDED BY THE MANUFACTURER OF THE EQUIPMENT OR AS SHOWN ON THE DRAWINGS IF THE MANUFACTURER DOES NOT HAVE A RECOMMENDED SIZE.

PART 3 - EXECUTION

A. GENERAL

- 1. ALL MATERIALS SHALL BE INSTALLED IN A PROFESSIONAL MANNER INDICATIVE OF THE TRADE.
- 2. ALL PENETRATIONS OF THE OUTSIDE WALLS OR ROOF SHALL BE SEALED WITH APPROPRIATE SEALANT OR CAULK FOR THE PARTICULAR SURFACE INVOLVED.
- 3. PROVIDE CLEAR, TYPED, P-TOUCH LABEL FOR ALL RECEPTACLES COVERPLATES IDENTIFYING THE
- CIRCUIT NUMBER THAT THE RECEPTACLE IS CIRCUITED TO.

 4. PROVIDE UPDATED TYPED PANEL SCHEDULE INDEX FOR ALL PANELS WHERE CIRCUITS HAVE BEEN

B. RACEWAYS

- 1. RACEWAYS SHALL RUN CONCEALED UNLESS OTHERWISE INDICATED. EXPOSED RACEWAY RUNS SHALL BE PARALLEL WITH SUPPORTING WALLS, BEAMS, AND CEILINGS AND WITH EACH OTHER CLOSER THAN 6 INCHES TO ANY WATER PIPE OR HEATER BE INSTALLED AND SHALL NOT FLUME.
- 2. RACEWAY ENDS SHALL BE REAMED AFTER THREADING AND AFTER CUTTING AND BE MADE TO BUTT IN THE CENTER OF THE COUPLING. THE USE OF RUNNING THREADS IS PROHIBITED.
- 3. RACEWAYS SHALL BE INSTALLED AS A COMPLETE SYSTEM, CONTINUOUS FROM OUTLET TO OUTLET, CABINET, BOX OR FITTINGS, AND SHALL BE MECHANICALLY CONNECTED SO THAT ADEQUATE ELECTRICAL CONTINUITY FROM ONE TO ANOTHER IS OBTAINED. CONDUITS SHALL BE SUPPORTED WITH ONE OR TWO HOLE STAMPED STEEL OR MALLEABLE IRON STRAPS (SUCH AS MANUFACTURED BY RACO) DESIGNED FOR SUPPORTING CONDUIT. THE SIZE OF STRAP SHALL MATCH THE SIZE OF THE CONDUIT. NAILS,
- PERFORATED STRAP, OR PLUMBERS TAPE SHALL NOT BE USED FOR SUPPORT OF RACEWAY.

 4. PROVIDE 1/8" POLY PULL CORD IN RACEWAYS WITHOUT CONDUCTORS.

5. FOUR 90 DEGREE BENDS MAXIMUM BETWEEN TERMINATIONS OR BOXES.

C. CONDUCTORS

NEUTRAL

- 1. ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT AND COLOR CODED AS FOLLOWS:
- PHASE A BLACK BROWN
 PHASE B RED ORANGE
 PHASE C BLUE YELLOW
- 2. MAKE JOINTS, SPLICES, TAPS AND CONNECTIONS IN CONDUCTORS WITH SOLDERLESS CONNECTORS.

D. JUNCTION AND PULL BOXES

1. PULL BOXES SHALL BE PROVIDED WHERE INDICATED AND WHERE NECESSARY TO FACILITATE THE PULLING OF CONDUCTORS. TELEPHONE RACEWAYS SHALL HAVE A MAXIMUM OF TWO 90 DEGREE BENDS BETWEEN TERMINATIONS OR BOXES.

WHITE

GREEN

GROUN

E. GROUNDING

GROUNDING. MAKE GOOD CONTACT AT ALL PANEL BOARDS, OUTLET BOXES, AND JUNCTION OR PULL BOXES TO THE RACEWAY SYSTEM. USE APPROVED BONDING MATERIALS.

1. INSTALL A CODE SIZED GROUNDING CONDUCTOR IN ALL RACEWAYS. DO NOT USE THE RACEWAY FOR

1. BOND ALL PIPING (GAS WATER, ETC) AS REQUIRED BY THE NEC. CONFIRM SYSTEMS TO BE USED WITH MC.

H. SEISMIC REQUIREMENTS

1. IF REQUIRED, RECESSED TYPE LIGHTING FIXTURES, IN ADDITION TO THE STANDARD SEISMIC CLIPS AND SUPPORT ON T-BAR GRID SYSTEM, SHALL HAVE 2#12 STEEL SAFETY WIRES PER FIXTURE. ONE END OF EACH SAFETY WIRE SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE. THE OTHER END (6 INCHES LONGER THAN THE T-BAR GRID SUPPORT WIRES) SHALL BE FASTENED TO DIAGONAL CORNERS OF EACH LIGHTING FIXTURE.

I. CUTTING AND PATCHING

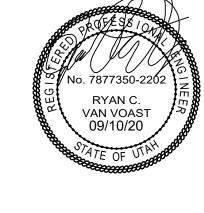
DRILLING, OR CORING.

1. PERFORM DRILLING, CUTTING, AND PATCHING OF THE GENERAL CONSTRUCTION WORK WHETHER EXISTING OR NEW, AS REQUIRED FOR THE INSTALLATION OF ELECTRICAL WORK. PATCH WITH THE SAME MATERIALS, WORKMANSHIP, AND FINISH AS THE ORIGINAL WORK AND ACCURATELY MATCH ALL SURROUNDING WORK. SUCH WORK WILL BE DONE BY A CRAFTSMAN ACCREDITED IN THE APPLICABLE TRADE UNDER THE CONTRACTOR'S SUPERVISION AND BE ACCEPTABLE TO THE OWNER'S REPRESENTATIVE. COORDINATE WITH OTHER TRADES AND GENERAL CONTRACTOR PRIOR TO CUTTING,

K. TESTING

- 1. DEMONSTRATE THAT ALL COMPONENTS OF THE WORK OF THIS DIVISION HAVE BEEN PROVIDED AND THAT THEY OPERATE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 2. TEST WIRING AND CONNECTORS FOR CONTINUITY, SHORT CIRCUITS AND IMPROPER GROUNDS. TEST EACH LIGHTING AND APPLIANCE PANEL WITH MAINS DISCONNECTED FROM FEEDERS, BRANCHES CONNECTED, WALL SWITCHES CLOSED AND FIXTURES PERMANENTLY CONNECTED AND COMPLETE WITH LAMPS. TEST
- EACH INDIVIDUAL POWER CIRCUIT WITH THE POWER EQUIPMENT CONNECTED FOR PROPER OPERATION.

 3. PROVIDE DETAILED DOCUMENTATION OF EACH TEST PERFORMED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE, WITH THE NAMES AND THE SIGNATURES OF QUALIFIED INDIVIDUALS WHO CONDUCTED AND WITNESSED EACH TEST.



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SANTAQUIN CITY PAD 'C'

400 EAST MAIN STREET SANTAQUIN, UTAH

MARK	DATE	DESCRIPTION
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AGENCY PROJECT NO:

DESIGN SEQUENCE PROJECT NO:

CAD DWG FILE NO:

DRAWN BY:

DWG TYPE:

ARCHITECTURAL PHASE:

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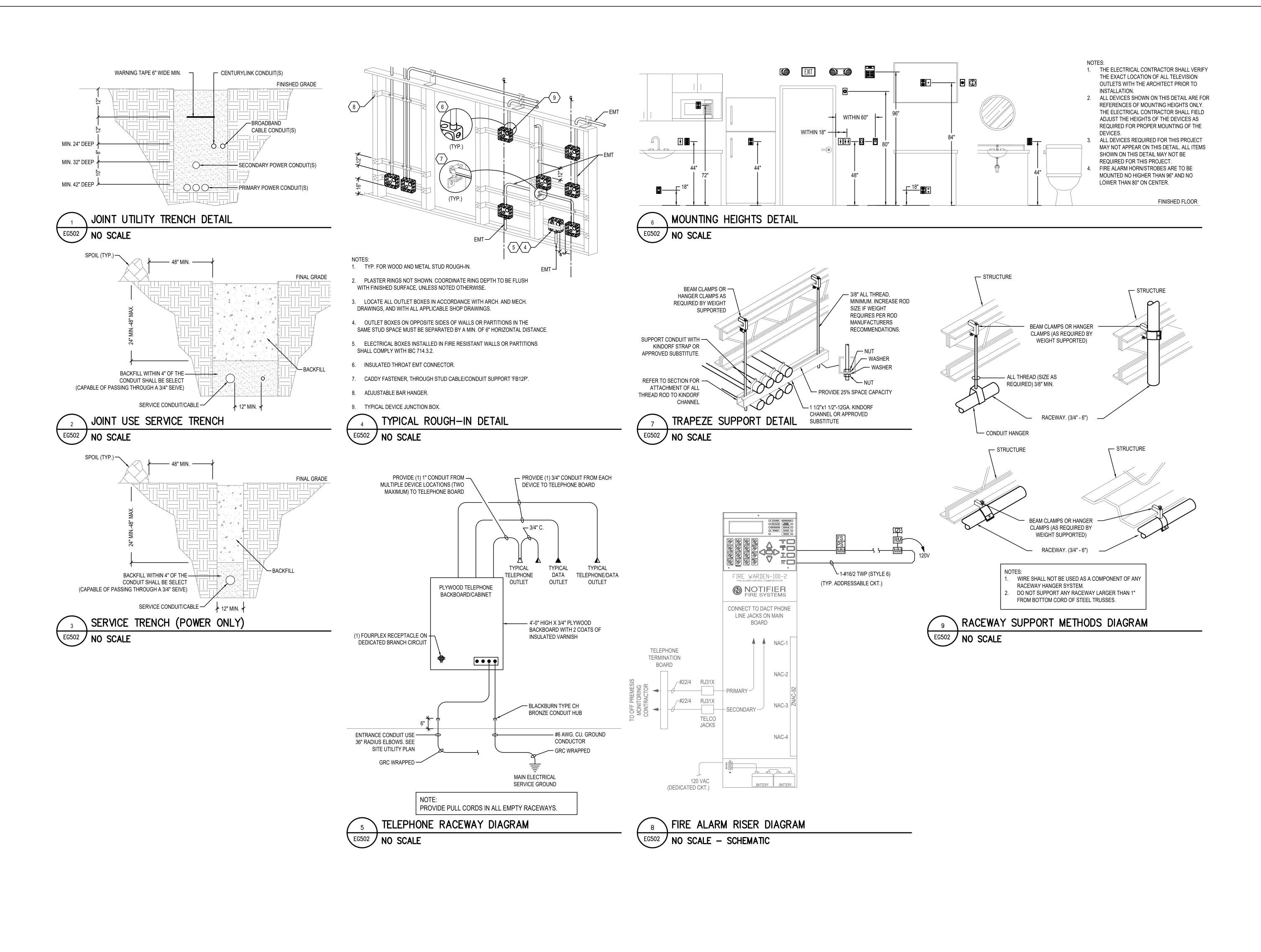
ELECTRICAL SPECIFICATIONS

EG501



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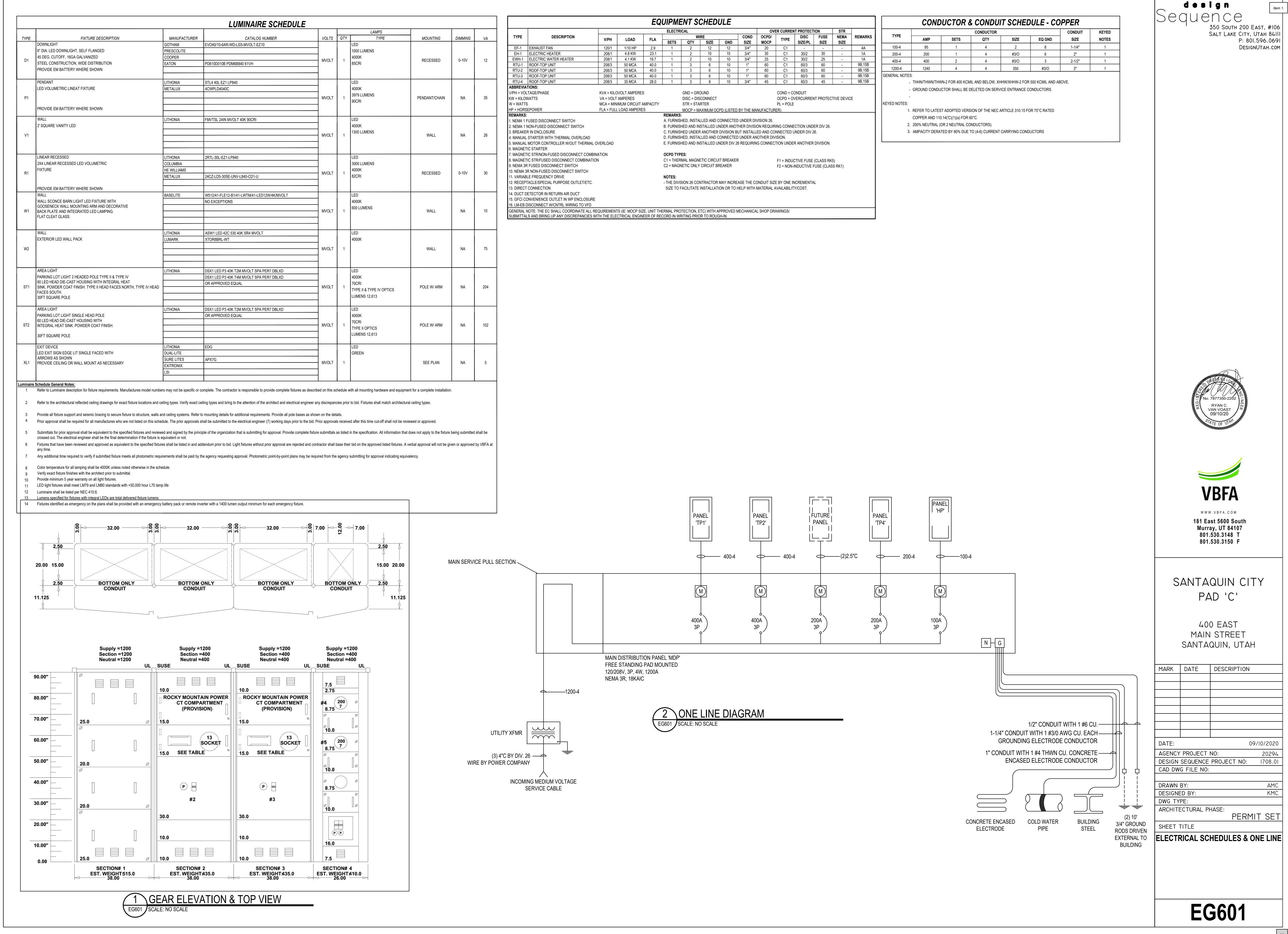
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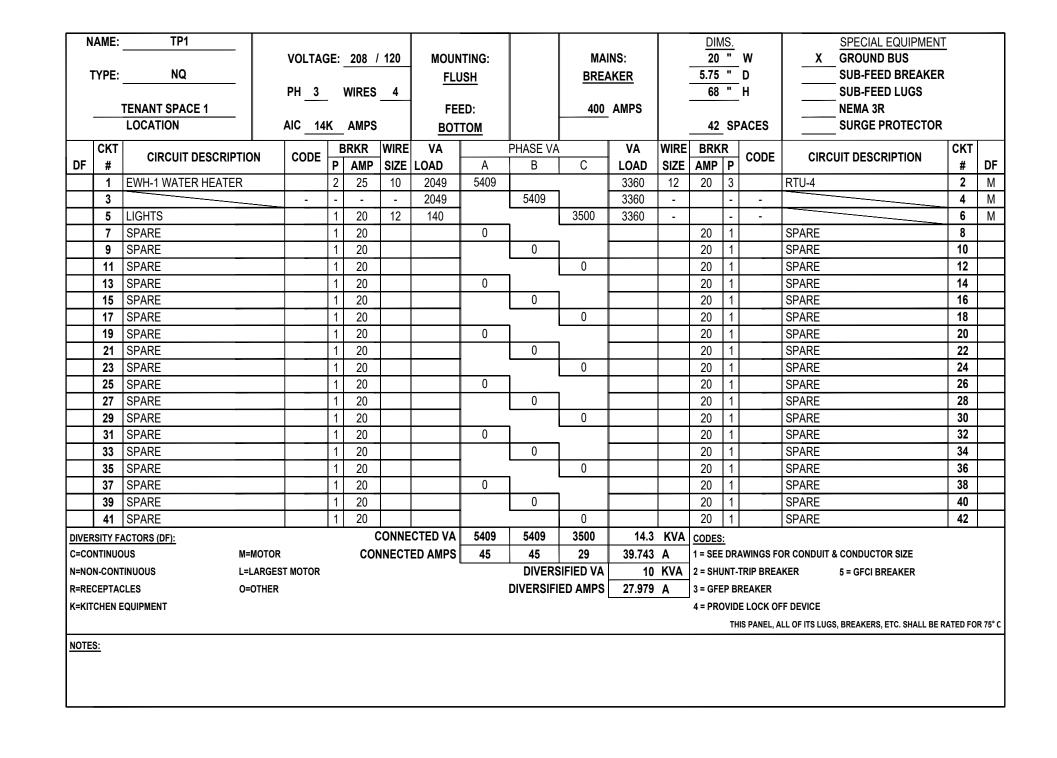
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ELECTRICAL DETAILS

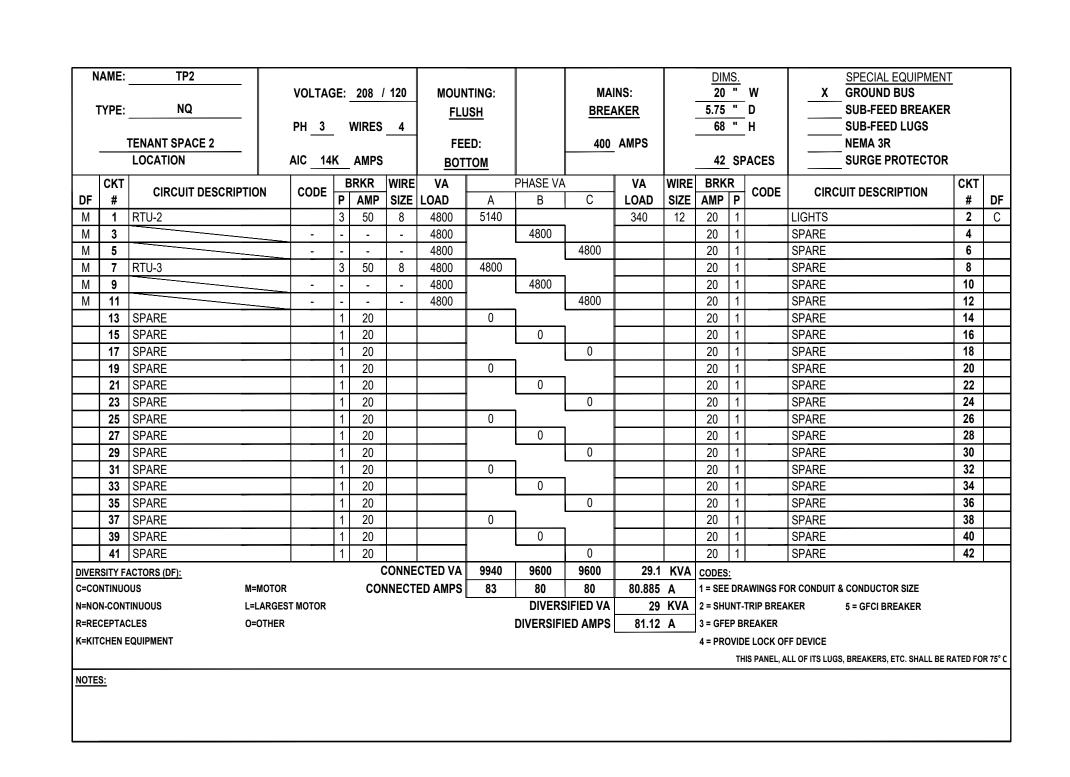
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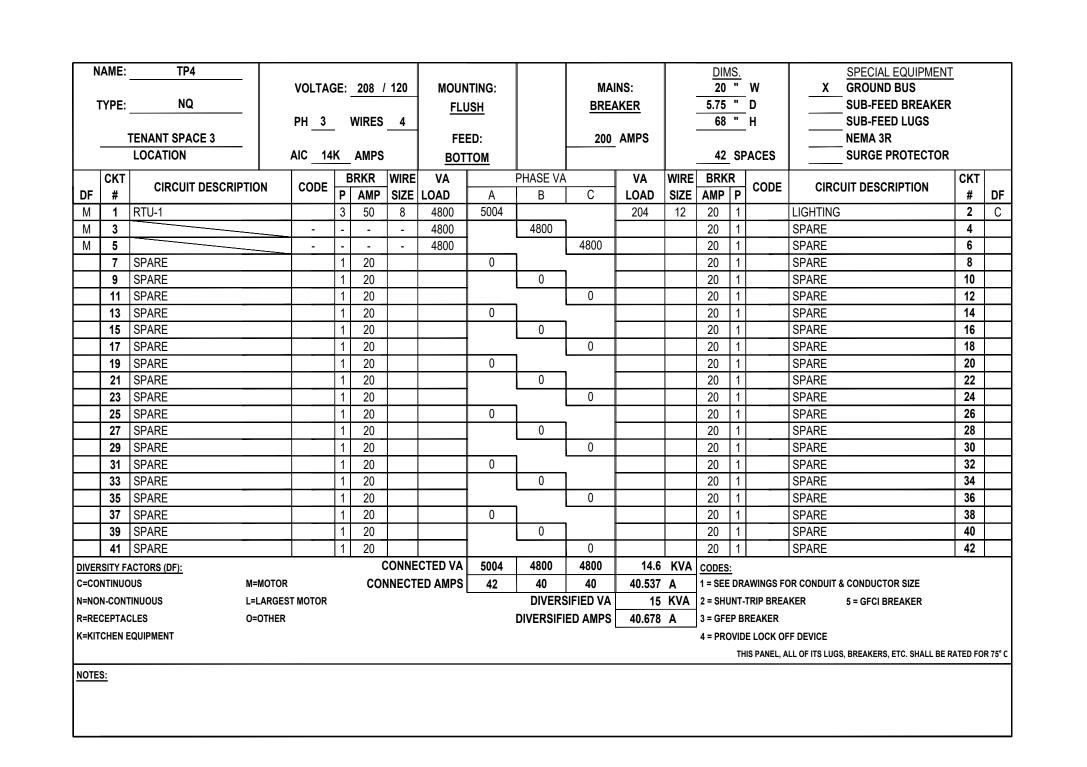






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	3	PARKING LOT LIGHTING		1	20	8	306		806		500	12	20	1	3	HEAT TRACE	4	С
	5	TTB RECEPTACLE		1	20	12	360			860	500	12	20	1	3	HEAT TRACE	6	С
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		SPARE		1	20			100	7 '		100	12	20	1		FACP	26	С
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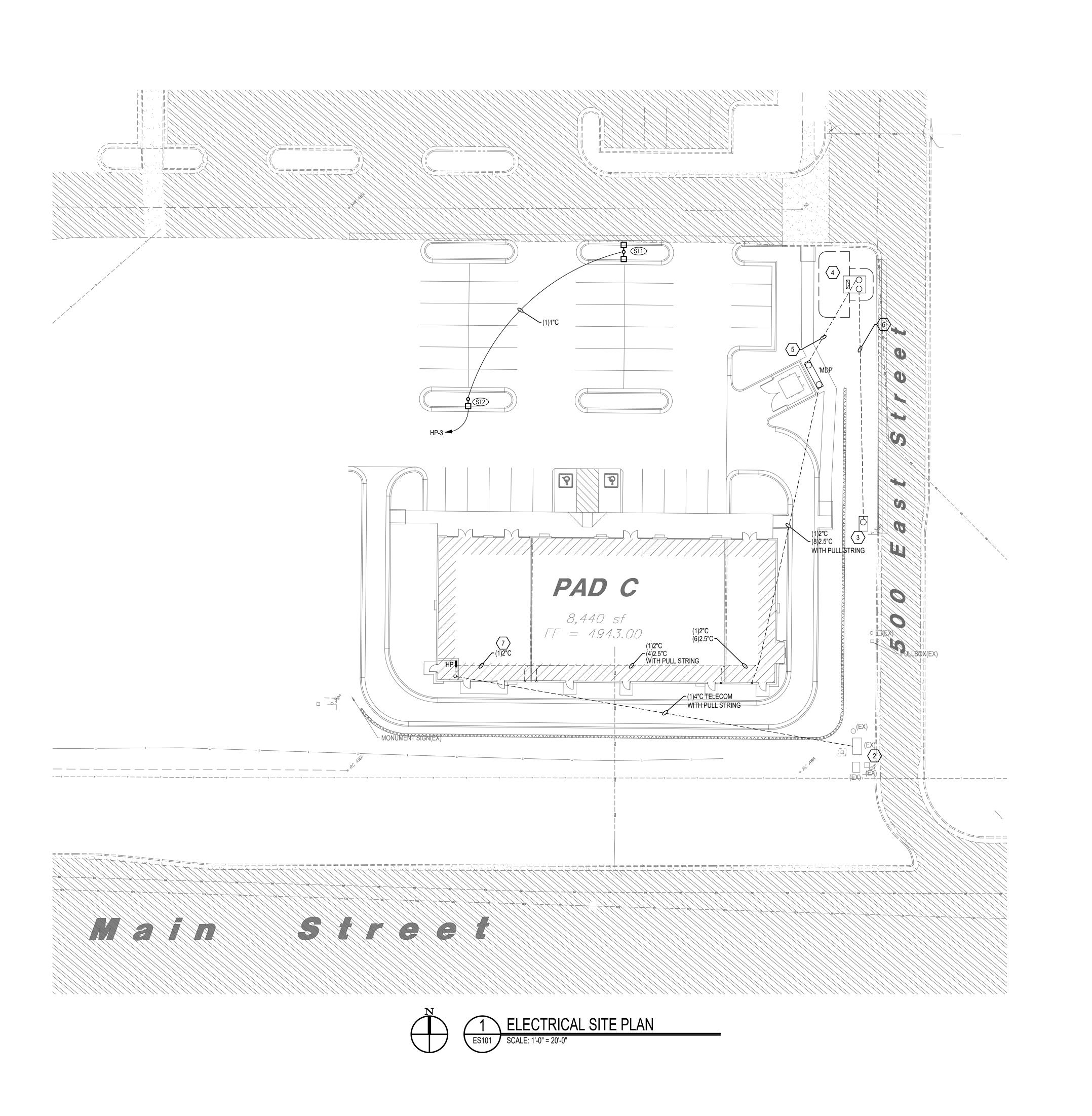
SANTAQUIN CITY PAD 'C'

> 400 EAST MAIN STREET SANTAQUIN, UTAH

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SHEET TITLE						
ELECTRICAL PANEL SCHEDULES						

EG602



KEYED NOTES

- 1. PROPOSED LOCATION OF CONCRETE PAD MOUNTED MAIN SERVICE DISCONNECT AND DISTRIBUTION BOARD 'MDP' WITH INTEGRAL
- METERS FOR EACH SPACE.
- 2. LOCATION OF EXISTING CENTURY LINK IN-GRADE PULLBOX. 3. APPROXIMATE LOCATION OF EXISTING SECTIONALIZING CABINET.
- 4. PROPOSED LOCATION OF NEW PAD MOUNT TRANSFORMER. COORDINATE WITH POWER COMPANY PRIOR TO ROUGH-IN. TRANSFORMER BY LOCAL POWER COMPANY, CONCRETE PAD BY ELECTRICAL CONTRACTOR. REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- 5. SEE ONE-LINE DIAGRAM SHEET EG601 FOR CONDUIT SIZE AND QUANTITY. EC SHALL BE RESPONSIBLE FOR ALL TRENCHING, INSTALLATION OF CONDUIT AND WIRE AND BACKFILL.
- 6. EC SHALL TRENCH, PROVIDE AND INSTALL (3)4"C WITH PULL STRING AND BACKFILL. CONDUCTORS BY POWER COMPANY.



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Item 1.





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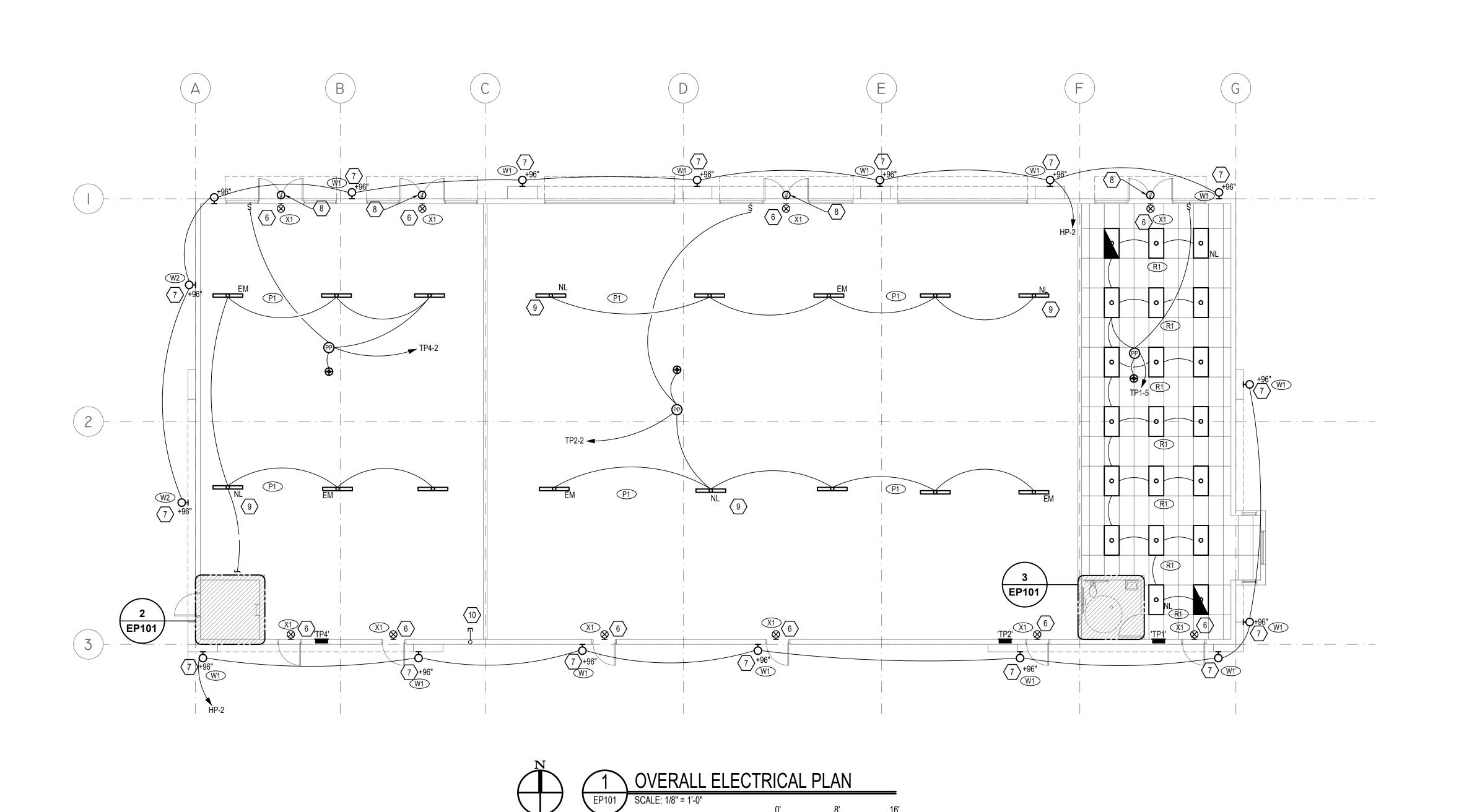
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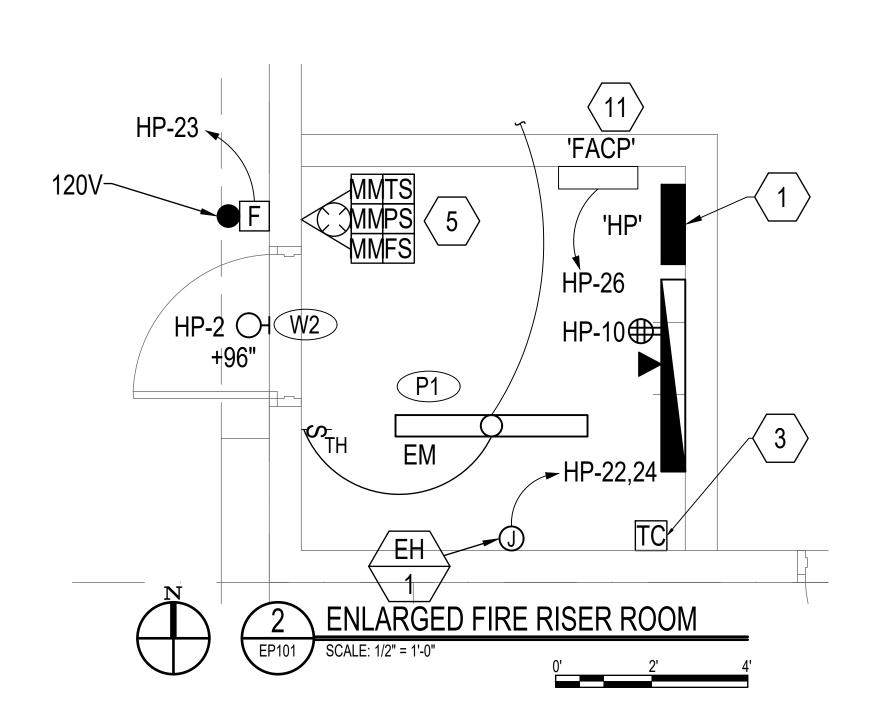
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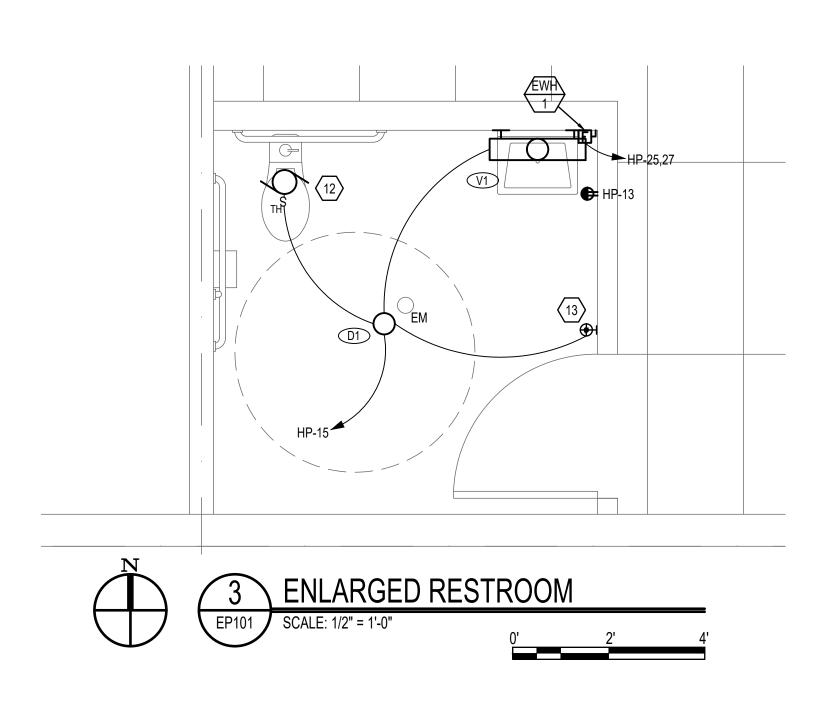
SHEET TITLE

ELECTRICAL SITE PLAN

ES101







KEYED NOTES

- PROPOSED LOCATION OF HOUSE PANEL.
- 2. EC SHALL STUB CONDUIT FROM INDIVIDUAL METER AND BREAKER SECTION INTO EACH SPACE AS SHOWN FOR FUTURE TENANT
- IMPROVEMENT BUILD-OUT.
 PROVIDE AND INSTALL A 7-DAY PROGRAMMABLE TIME CLOCK TO CONTROL THE EXTERIOR LIGHTING THROUGH THE PHOTOCELL ON
- 4. PROVIDE AND INSTALL A FIRE ALARM FLOW BELL ON EXTERIOR OF
- EC SHALL COORDINATE WITH MECHANICAL AND FIRE SPRINKLER CONTRACTOR FOR EXACT LOCATION OF FIRE RISER. PROVIDE ALL REQUIRED MONITOR MODULES, FLOW, TAMPER, AND PRESSURE SWITCHES REQUIRED.
- PROVIDE AN UNSWITCHED HOT CONDUCTOR TO EXIT SIGN.
- COORDINATE EXACT HEIGHT OF ALL EXTERIOR LIGHTING WITH ARCHITECT PRIOR TO ROUGH IN.
- 8. PROVIDE AND INSTALL A J-BOX ON EXTERIOR OF BUILDING FOR FUTURE SIGNAGE WITH (1)3/4"C STUBBED INTO SPACE.
- 10. STUB (1)2"C INTO SPACE FROM METER LOCATION FOR FUTURE ELECTRICAL SERVICE TO SPACE. CONDUIT SHALL BE STUBBED IN WALL AND EXTEND TO ABOVE CEILING SPACE. STUB CONDUIT OUT 2FT FROM WALL ABOVE CEILING. LABEL FOR USE.

9. THIS LIGHT SHALL BE WIRED AS NIGHT LIGHT FOR CONSTANT ON.

- 11. PROVIDE A BASIC FIRE ALARM CONTROL PANEL TO MONITOR THE FLOW, TAMPER SWITCHES AND DUCT DETECTORS REQUIRED ON PROJECT
- RESTROOM EXHAUST FAN. EC SHALL TIE INTO LIGHTING CIRCUIT AND CONTROL.
- 13. FURNISH AND INSTALL A DUAL ZONE DUAL TECHNOLOGY WALL BOX OCCUPANCY SENSOR TO CONTROL THE LIGHTS AND EXHAUST FAN IN THE ROOM SEPARATELY. ZONE FOR EXHAUST FAN SHALL HAVE AN ADJUSTABLE 30 MINUTE MAXIMUM TIME DELAY AFTER LIGHTS TURN OFF. SET INITIAL TIME DELAY FOR LIGHTS TO BE 15 MINUTE MINIMUM. SET TIME DELAYS PER OWNER'S REQUIREMENTS.

Seque

design

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SANTAQUIN CITY PAD 'C'

> 400 EAST MAIN STREET SANTAQUIN, UTAH

DATE:			09/10/202
AGENCY	2029		
DESIGN	1708.		

MARK DATE DESCRIPTION

DRAWN BY:

DESIGNED BY:

DWG TYPE:

ARCHITECTURAL PHASE:

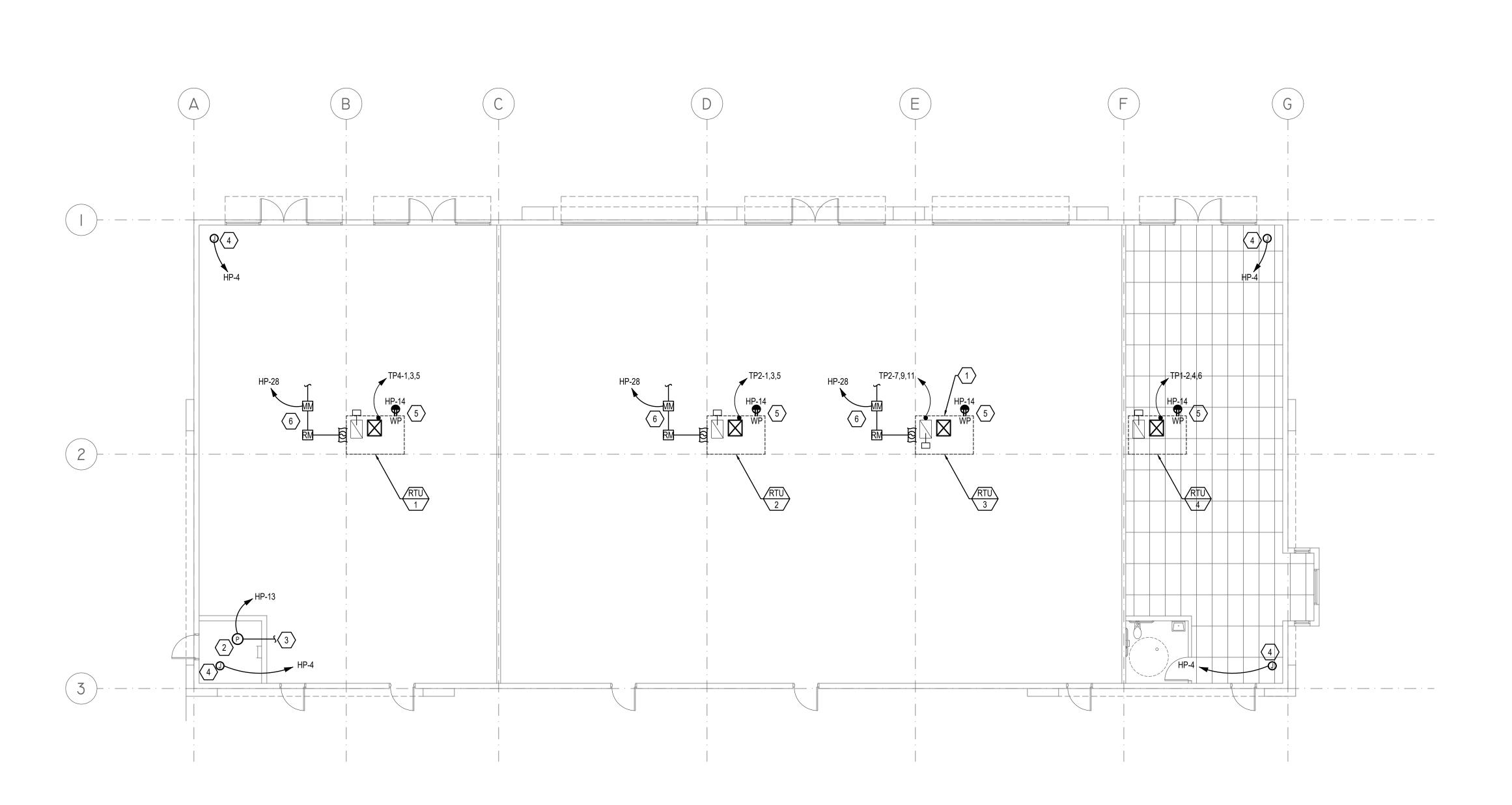
PERMIT SET

SHEET TITLE

CAD DWG FILE NO:

OVERALL ELECTRICAL PLAN

EP101



KEYED NOTES

 ROOF TOP UNIT FOR FUTURE TENANT. THIS UNIT WILL BE PROVIDED WITH POWER WHEN THE TENANT IMPROVEMENT IN DESIGNED. EC SHALL PROVIDE (1)3/4"C FROM RTU FACTORY DISCONNECT AND

- STUB DOWN INTO SPACE FOR FUTURE WIRING. PROVIDE AND INSTALL A PHOTOCELL ON THE ROOF FOR AUTO ON/OFF OF THE EXTERIOR LIGHTING.
- 3. TIE INTO TIME CLOCK.
- 4. PROVIDE AND INSTALL SELF REGULATED HEAT TAPE FOR EACH ROOF DRAIN. RUN TAPE ALL THE WAY TO BOTTOM OF DRAIN AND LOOP BACK UP AT BOTTOM. PROVIDE ALL REQUIRED CONTROL AND SENSORS FOR HEAT TRACE TO TURN ON/OFF BASED ON AMBIENT
- 5. GFCI RECEPTACLE PROVIDED WITH RTU UNIT BY MANUFACTURER.
- 6. DUCT DETECTOR PROVIDED AND INSTALLED BY RTU MANUFACTURER. EC SHALL CONNECT AND PROVIDE RELAY AND MONITOR MODULES AS REQUIRED. PROVIDE CONDUIT AND WIRE TO CONNECT TO FIRE ALARM CONTROL PANEL.

AIR TEMPERATURE AND/OR MOISTURE DETECTION. EC SHALL CIRCUIT TO HOUSE PANEL CIRCUIT AS INDICATED.



Sequence
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SANTAQUIN CITY PAD 'C'

400 EAST MAIN STREET SANTAQUIN, UTAH

MARK DATE DESCRIPTION

09/10/2020

AGENCY PROJECT NO: DESIGN SEQUENCE PROJECT NO: 1708.01 CAD DWG FILE NO:

DESIGNED BY:
DWG TYPE: ARCHITECTURAL PHASE: PERMIT SET

SHEET TITLE **ELECTRICAL ROOF PLAN**

EP102

AMC