GENERAL NOTES

STRUCTURE LOCATION

1206 W. 2150 N. OGDEN, UT 84404

DESIGN CRITERIA

CODES AND STANDARDS

2021 INTERNATIONAL BUILDING CODE (IBC)

ASCE 7-16

AISC 2018 ASCE 55

VERTICAL LOADS ROOF

DEAD LOAD = SELF WEIGHT + 2.2 PSF (FABRIC & UTILITY)

LIVE LOAD = 0 PSF (BOUNDARY-LESS SHAPE OF THE SHELL COUPLED WITH THE SLIPPERY CANVAS DOES NOT PERMIT SAFE ACCESS TO THE TOPSIDE, NOR CAN ANY RE-ROOFING WORK BE UNDERTAKEN)

SNOW LOAD = 12 PSF FOR SNOW AREAS ONLY - THIS STRUCTURE IS DESIGNED TO SHED/RELEASE SNOW,

THE PERIMETER OF THE STRUCTURE SHALL BE KEPT CLEAR.

LATERAL LOADS SEISMIC

RISK CATEGORY: II SEISMIC DESIGN CATEGORY: D

SITE CLASS D - DEFAULT SS = 1.483

S1 = 0.537

Fa = 1.2 Fv = 1.76

SDS = 1.187 SD1 = 0.631

PGA = 0.669R = 3

IE = 1.0 Ω o = 2.5

> Cd = 3.0IP = 1.0

CS = 0.333STRUCTURE'S WEIGHT W = 16.74 KIPS

SEISMIC BASE SHEAR = WxCs = 5.53 KIPS (ASD)

SEISMIC FORCE RESISTING SYSTEM: MOMENT RESISTING FRAME (SHORT DIRECTION)

AND CABLE BRACED (LONG DIRECTION) ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

LINEAR STATIC WIND

VULT = 115 MPH RISK CATEGORY: II

EXPOSURE CATEGORY: C

GCPI = 0.55

UTILITY LOADS

SPRUNG STRUCTURES ARE DESIGNED TO SUPPORT AN AVERAGE AND BALANCED UTILITY LOAD OF 2 PSF. COMPRISED OF SUCH ITEMS AS SPRINKLER LINES. HVAC DUCTS. ELECTRICAL. LIGHTING. FANS. CEILING GRIDS. AUDIO-VISUAL EQUIPMENT. ETC. THE SEISMIC EFFECT AND FORCES CAUSED BY THE UTILITY LOAD ALLOWANCE ARE TAKEN INTO CONSIDERATION IN THE DESIGN OF THE STRUCTURE.

FOR MANY STRUCTURES. THE WIND EFFECT FROM THE DESIGN WIND SPEED EXCEEDS THE FORCES THE STRUCTURE WILL SEE FROM THE SEISMIC DEMAND CAUSED BY THE PROPOSED SUSPENDED UTILITIES. REGARDLESS OF WHAT CONTROLS ENGINEERING REQUIREMENTS, ALL STRUCTURAL DESIGNS INCLUDE THIS 2-PSF UTILITY LOAD ALLOWANCE, AND ARE ENSURED TO HAVE SUFFICIENT CAPACITY TO UNIFORMLY SUPPORT IT.

THE MAXIMUM CONCENTRATED LOAD AT ANY ATTACHMENT POINT IS 300 LBS.

CONCENTRATED LOADS GREATER THAN 300 LBS MUST BE APPROVED BY SPRUNG, AND IF PRESENT. REQUIRE A PROJECT SPECIFIC UTILITY LOAD STUDY TO BE CONDUCTED.

ATTACHMENT OF THE UTILITIES MUST ONLY BE TO THE BOTTOM FLANGE OF THE (FRAME) BEAM AND CAN BE ACHIEVED USING THE FLANGE'S BOLT CHASE (3/8" DIA. FOR 5X10 BEAMS & 1/2" DIA. FOR 8x12 BEAMS). FOR STRUCTURES WITHOUT AN INTERIOR LINER, APPROVED SPECIALTY BEAM CLAMPS OR THE BOLT CHASE MAY BE USED TO ATTACH UTILITIES TO THE ALUMINUM ARCHES. BEAM CLAMPS SHALL ENGAGE THE BOTTOM FLANGE OF THE ARCH BEAM ON BOTH SIDES OF THE WEB BEAM CLAMPS SHALL NOT ENGAGE THE ROPE CHASE. ECCENTRIC CONNECTIONS TO THE FLANGE ARE NOT PERMITTED, REGARDLESS OF ATTACHMENT METHOD.

NO UTILITY LOADS CAN BE ATTACHED TO THE (FRAME) BEAMS WITH SCREWS OR OTHER METHODS THAT PUNCTURE THE BEAM'S FLANGES OR WEB. UNDER NO CIRCUMSTANCES CAN LOADS BE ATTACHED TO PURLINS/SPREADERS OR CABLES. ANY ATTACHMENT TO THE STRUCTURE SHOULD BE FLEXIBLE ENOUGH TO ALLOW FOR THE MOVEMENT OF THE STRUCTURE IN HIGH WIND CONDITIONS. ALL METHODS AND DESIGN OF ATTACHMENT OF THE UTILITIES TO THE STRUCTURE ARE THE RESPONSIBILITY OF YOUR CLIENT'S ENGINEER.

QUALITY CONTROL

ISO 9001:2015 INSPECTION DOCUMENTATION IS AS PER THE ISO STANDARD AND AS PER ADM CHAPTER

ALUMINUM:

- MIL CERTS ARE CHECKED FOR CONFORMANCE WITH SPRUNG'S SPECIFICATIONS.
- ALUMINUM PROFILES ARE RANDOMLY SELECTED TO ENSURE CONFORMANCE TO ASTM
- ALL CURVED SECTIONS FROM BENDERS ARE TO BE PLACED IN A JIG AND CHECKED FOR GEOMETRIC TOLERANCES
- MANUFACTURING CONSIST OF CUTTING OF THE ALUMINUM EXTRUSIONS, DRILLING OF HOLES C&C MACHINES AND PUNCH PRESSES WITH DIES. FABRICATED PARTS ARE VISUALLY CHECKED TO ENSURE IT CONFORMS WITH SHOP
- DRAWINGS.

STEEL PARTS:

 ALL WELDED STRUCTURAL STEEL COMPONENTS ARE FABRICATED IN AN AWS SHOP. ALL STRUCTURAL STEEL COMPONENTS ARE HOT DIPPED GALVANIZED TO ASTM A153 STANDARDS.

MEMBRANE:

- UPON RECEIPT OF MATERIALS, MIL CERTS ARE CHECKED FOR CONFORMANCE WITH SPRUNG'S SPECIFICATIONS.
- AS MEMBRANE IS PATTERNED AND ASSEMBLED, A VISUAL CHECK OF THE MEMBRANE TAKES PLACE, FLAWED MATERIAL IS PUT ASIDE.
- COMPLETED MEMBRANE PANELS ARE VISUALLY CHECKED TO ENSURE DIMENSIONAL ACCURACY.

MATERIALS

ALUMINUM: ADM 2020

6351-T6, DESIGN & FABRICATION SHALL BE PER THE ALUMINUM DESIGN MANUAL. **MECHANICAL PROPERTIES:**

TENSION

Fu ULTIMATE = 42 ksi Fy YIELD = 37 ksi ELONGATION = 8%

Fsu ULTIMATE = 25 ksi Fsy YIELD = 22 ksi

BEARING Fb ULTIMATE = 84 ksi

MEMBRANE: ASCE-55

OUTER MEMBRANE - HERCULITE EXCEL 18

FINISHED COATED WEIGHT $20 + - 2 \text{ oz/yd}^2$

TONGUE TEAR

175/155 lbf **GRAB TENSILE** 450/345 lbf 325/245 lbf/in

STRIP TENSILE 1"

ADHESION 10 lbf/in

HYDROSTATIC RESISTANCE - LOW TEMPERATURE 1/8" MANDREL, 4hr - PASS @ -40 DEGREES F

DAYLIGHT PANEL MEMBRANE - SEAMAN SHELTER-RITE 8324

FINISHED COATED WEIGHT

TONGUE TEAR 140/130 lbf 400/350lbf

GRAB TENSILE - STRIP TENSILE 1"

300/240 lbf/in - ADHESION 10 lbf/in

HYDROSTATIC RESISTANCE 500psi

LOW TEMPERATURE 1/8" MANDREL, 4hr - PASS @ -40 DEGREES F

STRUCTURE MEMBRANE MEETS:

NFPA 701 CALIFORNIA STATE FIRE MARSHALL

ASTM-E-84 CLASS A

- 44W AISC 360

ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE HOT DIPPED GALVANIZED TO ASTM A153 STANDARDS. DESIGN AND FABRICATION OF STRUCTURAL STEEL SHALL BE IN CONFORMANCE WITH AISC 360-16 & ASTM A572 GRADE 42 COMPLIANT.

STRUCTURAL BOLTS: STRUCTURAL BOLTS, ZINC-DICHROMATE PLATE SAE GRADE 8. ALL STRUCTURAL BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION; I.E., ALL PLIES SHALL BE BROUGHT INTO FIRM CONTACT WITH A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT

CABLE BRACING: ASCE 19

OF A MAN WITH A SPUD WRENCH.

- ALL CABLE BRACING 1/2" DIAMETER STEEL GALVANIZED AIRCRAFT CABLE C/W HOT DIPPED GALVANIZED HEAVY DUTY THIMBLE EYES. 6X19+ IWRC, 26,600 LBS MINIMUM BREAKING STRENGTH.
- 5/8" X 9" JAW/JAW TURNBUCKLES HOT DIPPED GALVANIZED
- 5/8" SHACKLES HOT DIPPED GALVANIZED

DISSIMILAR METALS:

AS PER THE ALUMINUM DESIGN MANUAL, ALUMINUM CAN BE COUPLED TO MAGNESIUM, ZINC, CADMIUM, AND PASSIVE STAINLESS STEEL WITHOUT THE THREAT OF GALVANIC CORROSION.

STRUCTURE ANCHORAGE (EARTH)

- 1. MR3 EARTH ANCHOR IN CONJUNCTION WITH 2 @ 3/4" DIA. X 5FT PINS PER COLUMN
- 2. SOIL CAPACITY FOR THE EARTH ANCHORING METHOD TO BE REVIEWED AND APPROVED BY A LOCAL ENGINEER.
- 3. EARTH ANCHORS TO BE PULLED AND LOCKED TO THE VALUES AS OUTLINED ON THE EARTH ANCHOR LAYOUT (BY SPRUNG). ACHIEVED VALUES ARE TO BE RECORDED ON THIS DRAWING AT TIME OF INSTALLATION.
- 4. EARTH ANCHORS MUST BE PROOF TESTED TO THE LOADS SPECIFIED ON EARTH THE ANCHOR LAYOUT (BY SPRUNG) WITH THE FORESIGHT LL-2 LOAD LOCKER OR AN ENGINEER APPROVED EQUIVALENT.
- 5. ATTACHMENT OF THE MR3 EARTH ANCHORS TO THE SPRUNG ARCHES TO BE MAINTAINED IN A TAUT CONDITION THROUGH OUT THE LIFE OF THE STRUCTURE.
- 6. MINIMUM EARTH ANCHOR DEPTH = 7'-0" OR DEEPER DEPENDING ON SOIL CONDITIONS AS DETERMINED BY LOCAL ENGINEER.

STRUCTURE ANCHORAGE (CONCRETE)

HILTI ADHESIVE AND MECHANICAL ANCHORS

THE APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:

- 1. THE DESIGN INFORMATION LISTED IN THE RESEARCH REPORT AND TABLES ARE VALID FOR THE FASTENERS ONLY. CONNECTED MEMBERS SHALL BE CHECKED FOR THEIR CAPACITY (WHICH MAY GOVERN).
- 2. THE ANCHORS SHALL BE IDENTIFIED BY LABELS ON THE PACKAGING INDICATING THE MANUFACTURER'S NAME AND PRODUCT DESIGNATION.
- 3. DESIGN INFORMATION, EDGE DISTANCES, SPACING AND MINIMUM EMBEDMENT REQUIREMENTS SHALL BE PER TABLES IN ICC-ES REPORT NO. ESR-3187.
- 4. SPECIAL INSPECTION SHALL BE PROVIDED FOR ANCHOR INSTALLATIONS.
- 5. THE ANCHORS SHALL BE INSTALLED AS PER THE MANUFACTURER'S INSTRUCTIONS EXCEPT AS OTHERWISE STATED IN THIS REPORT. COPIES OF THE INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE AT EACH JOB SITE.
- 6. THE ADHESIVE ANCHORS AND POST INSTALLED REINFORCING BAR CONNECTORS SHALL NOT BE USED TO SUPPORT FIRE-RESISTIVE CONSTRUCTION, UNLESS IN COMPLIANCE WITH SECTION 5.12 OF ICC-ES ESR3187.
- 7. MINIMUM CONCRETE COVER PER SECTION 20.6.1.3 OF ACI 318-14 SHALL BE FOLLOWED WHENEVER APPLICABLE.
- 8. ATTACHMENT TO MASONRY IS OUTSIDE THE SCOPE OF THIS APPROVAL.

STRUCTURAL OBSERVATION

- (1) STRUCTURAL OBSERVATION MAY BE REQUIRED FOR THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION AT THE CONSTRUCTION SITE OF THE ELEMENTS AND CONNECTIONS OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES, AND THE COMPLETE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. STRUCTURAL OBSERVATION DOES NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE BUILDING INSPECTOR OR THE DEPUTY INSPECTOR.
- (2) THE OWNER SHALL EMPLOY A STATE REGISTERED (AS REQUIRED) CIVIL OR STRUCTURAL ENGINEER OR LICENSED ARCHITECT TO PERFORM THE STRUCTURAL OBSERVATION. LOCAL PLANNING DEPT MAY REQUIRE THE USE OF THE ENGINEER OR ARCHITECT, OR HIS/HER DESIGNEE RESPONSIBLE FOR THE STRUCTURAL DESIGN WHO ARE INDEPENDENT OF THE CONTRACTOR.
- (3) THE STRUCTURAL OBSERVER SHALL PROVIDE EVIDENCE OF EMPLOYMENT BY THE OWNER OR THE OWNER'S REPRESENTATIVE. A LETTER FROM THE OWNER, THE OWNER'S REPRESENTATIVE, OR A COPY OF THE AGREEMENT FOR SERVICES SHALL BE SENT TO THE BUILDING INSPECTOR BEFORE THE FIRST SITE VISIT.
- (4) THE OWNER OR OWNER'S REPRESENTATIVE SHALL COORDINATE AND CALL FOR A MEETING BETWEEN THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, STRUCTURAL OBSERVER, CONTRACTOR, AFFECTED SUBCONTRACTORS AND DEPUTY INSPECTORS. THE PURPOSE OF THE MEETING SHALL BE TO IDENTIFY THE MAJOR STRUCTURAL ELEMENTS AND CONNECTIONS THAT AFFECT THE VERTICAL AND LATERAL LOAD SYSTEMS OF THE STRUCTURE AND TO REVIEW SCHEDULING OF THE REQUIRED OBSERVATIONS. A RECORD OF THE MEETING SHALL BE INCLUDED IN THE FIRST OBSERVATION REPORT SUBMITTED TO THE BUILDING INSPECTOR.
- (5) THE STRUCTURAL OBSERVER SHALL PERFORM SITE VISITS AT THOSE STEPS IN THE PROGRESS OF THE WORK THAT ALLOW FOR CORRECTION OF DEFICIENCIES WITHOUT SUBSTANTIAL EFFORT OR UNCOVERING OF THE WORK INVOLVED. AT A MINIMUM, THE LISTED SIGNIFICANT CONSTRUCTION STAGES ON EITHER THE "STRUCTURAL OBSERVATION/SIGNIFICANT CONSTRUCTION STAGES" FORM OR THE "STRUCTURAL OBSERVATION PROGRAM AND DESIGNATION OF THE STRUCTURAL OBSERVER" FORM I N/FORM.08 (PART 2) REQUIRE A SITE VISIT AND AN OBSERVATION REPORT FROM THE STRUCTURAL OBSERVER.
- (6) THE STRUCTURAL OBSERVER SHALL PREPARE A REPORT OF THE "STRUCTURAL OBSERVATION REPORT FORM" I N/FORM.08 (PART 1) FOR EACH SIGNIFICANT STAGE OF CONSTRUCTION OBSERVED. THE ORIGINAL OF THE STRUCTURAL OBSERVATION REPORT SHALL BE SENT TO THE BUILDING INSPECTOR'S OFFICE AND SHALL BE SIGNED AND SEALED (WET STAMP) BY THE RESPONSIBLE STRUCTURAL OBSERVER. ONE COPY OF THE OBSERVATION REPORT SHALL BE ATTACHED TO THE APPROVED PLANS. THE COPY ATTACHED TO THE PLANS SHALL BE SIGNED AND SEALED (WET STAMP) BY THE RESPONSIBLE STRUCTURAL OBSERVER OR THEIR DESIGNEE. COPIES OF THE REPORT SHALL ALSO BE GIVEN TO THE OWNER, CONTRACTOR, AND DEPUTY INSPECTOR. ANY DEFICIENCY NOTED ON THE OBSERVATION REPORT WILL BECOME THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OR ARCHITECT OF RECORD TO VERIFY ITS COMPLETION BY THE STRUCTURAL OBSERVER.
- (7) A FINAL OBSERVATION REPORT MUST BE SUBMITTED WHICH SHOWS THAT ALL OBSERVED DEFICIENCIES WERE RESOLVED AND STRUCTURAL SYSTEM GENERALLY CONFORMS WITH THE APPROVED PLANS AND SPECIFICATIONS. THE LOCAL PLANNING DEPT. MAY NOT ACCEPT THE STRUCTURAL WORK WITHOUT THE FINAL OBSERVATION REPORT AND THE CORRECTION OF SPECIFIC DEFICIENCIES NOTED DURING NORMAL BUILDING INSPECTION.
- (8) THE STRUCTURAL OBSERVER SHALL PROVIDE THE ORIGINAL STAMPED AND SIGNED "STRUCTURAL OBSERVATION REPORT FORM" TO THE LOCAL PLANNING DEPARTMENT AND SAFETY BUILDING INSPECTOR.
- (9) WHEN THERE IS A NEED TO REPLACE THE STRUCTURAL OBSERVER OF RECORD, THE OWNER SHALL:
- A) NOTIFY THE BUILDING INSPECTOR IN WRITING BEFORE THE NEXT INSPECTION BY SUBMITTING COMPLETED "STRUCTURAL OBSERVATION PROGRAM AND DESIGNATION OF THE STRUCTURAL OBSERVER" FORM.
- B) CALL AN ADDITIONAL PRE-CONSTRUCTION MEETING, AND C) FURNISH THE REPLACEMENT STRUCTURAL OBSERVER WITH A COPY OF ALL PREVIOUS OBSERVATION REPORTS.
- D) THE NEW STRUCTURAL OBSERVER MUST BE DESIGNATED BY THE ENGINEER OR ARCHITECT OF RECORD. THE REPLACEMENT STRUCTURAL OBSERVER SHALL APPROVE THE CORRECTION OF THE ORIGINAL OBSERVED DEFICIENCIES UNLESS OTHERWISE APPROVED BY PLAN CHECK SUPERVISION. THE POLICY OF THE DEPARTMENT SHALL BE TO CORRECT ANY PROPERLY NOTED DEFICIENCIES WITHOUT CONSIDERATION OF THEIR SOURCE.
- (10) THE ENGINEER OR ARCHITECT OF RECORD SHALL DEVELOP ALL CHANGES RELATING TO THE STRUCTURAL SYSTEMS. THE BUILDING DEPARTMENT SHALL REVIEW AND APPROVE ALL CHANGES TO THE APPROVED PLANS AND SPECIFICATIONS.
- STRUCTURAL OBSERVATION IS REQUIRED PER IBC SECTION 1704.6.1 FOR SEISMIC RESISTANCE. IN THE DIRECTION PERPENDICULAR TO THE BUILDING RIDGE THE LATERAL FORCE RESISTING SYSTEM IS THE 3 PIN ARCHES. IN THE DIRECTION PARALLEL TO THE RIDGE THE

BAYS OF 5X6 ARCH, 5X6 COLUMNS AND 5/8" DIAMETER STEEL CROSS BRACING.

LATERAL FORCE RESISTING SYSTEM IS THE HORIZONTAL SPREADERS AND THE THREE

SPECIAL INSPECTION

SEE FOUNDATION ENGINEER'S DRAWINGS FOR ADDITIONAL SPECIAL INSPECTION REQUIREMENTS NOT STATED HERE.

THIS BUILDING INCORPORATES STRUCTURAL BOLTS AND POST-INSTALLED ANCHORS WHICH MAY REQUIRE SPECIAL INSPECTION UNDER THE BUILDING CODE. PER THE BUILDING CODE. SPECIAL INSPECTION IF REQUIRED, IS THE RESPONSIBILITY OF THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNERS

STATEMENT OF SPECIAL INSPECTION HIGH STRENGTH BOLTING TO A SNUG TIGHT CONDITION: PERIODIC

INSTALLATION OF ADHESIVE ANCHORS: PERIODIC SPECIAL INSPECTION IS REQUIRED AND SHALL CONFORM TO THE REQUIREMENTS OF ESR-3187, SECTION 4.4

DRAWING INDEX

SECTION & BASE DETAILS

PURLIN & SPLICE DETAILS

CABLE BRACE & MEMBRANE DETAILS

R23-1351.0 | FLOOR PLANS & ELEVATIONS

FLAT END DETAILS

R23-1351.1 | EARTH ANCHOR LAYOUT

DESCRIPTION

SHEET # DRAWING #

S-2

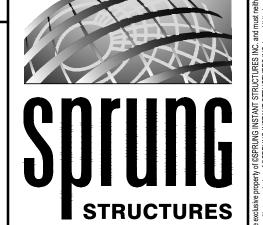
S-3

S-4

10

TITLE

WELDED STEEL CONNECTIONS: SPECIAL INSPECTION IS NOT REQUIRED SINCE THESE COMPONENTS SHALL BE FABRICATED IN A CERTIFIED FABRICATION SHOP.



TOLL FREE: 1-800-528-9899 (403) 601-2292 www.sprung.com



PRO C SHON

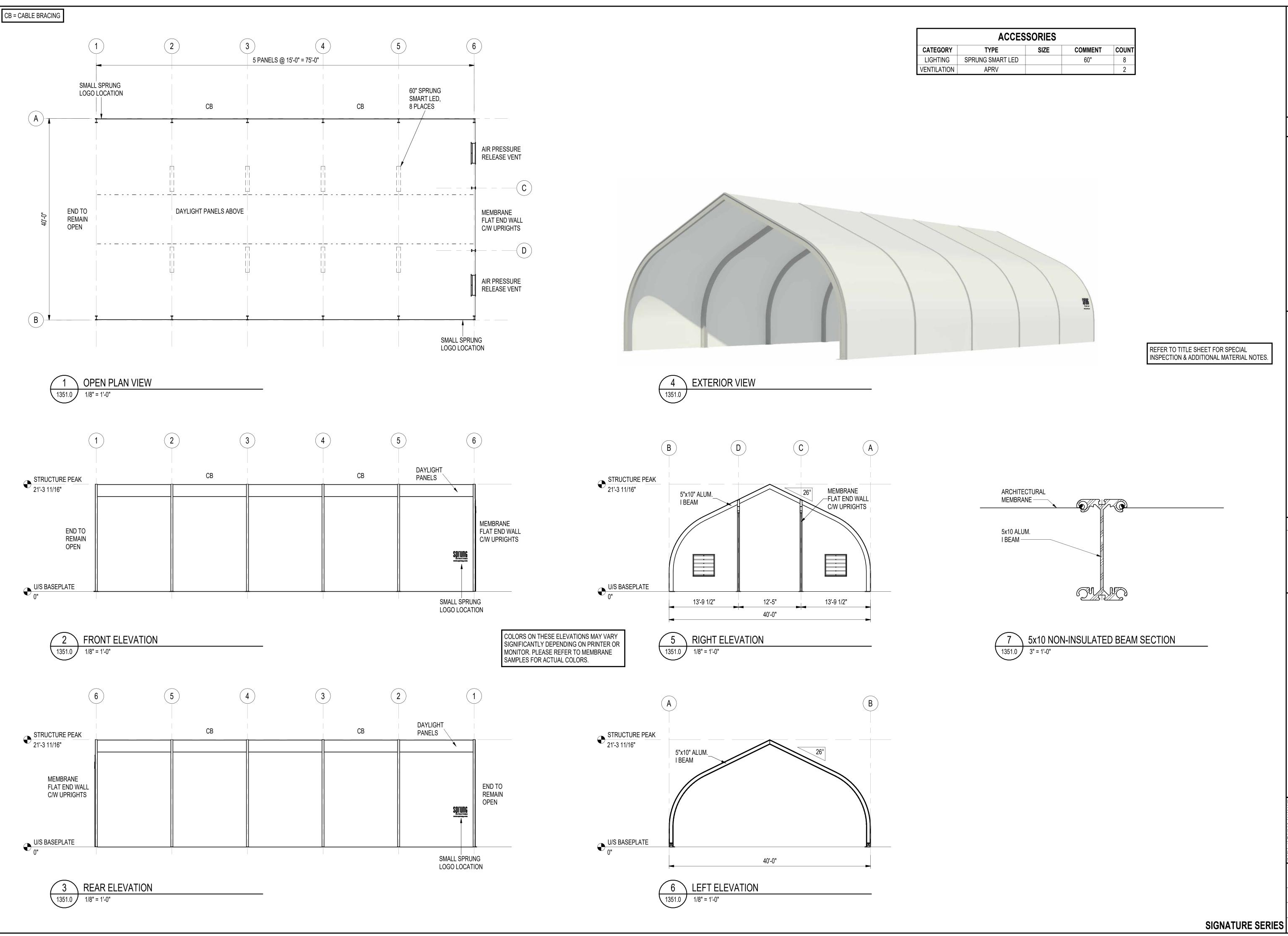
40'-0

REV. MM/DD/YY BY DESCRIPTION TITLE SHEET 11/06/2023 TITLE

info@canyonsstructural.com www.canyonsstructural.com PERTI

5 WAREI SDEN, UTAH,

SIGNATURE SERIES SPRUNG WO# 27004



TOLL FREE: 1-800-528-9899 (403) 601-2292 www.sprung.com

GENERAL NOTES:

1. STRUCTURE MEMBRANE MEETS: NFPA 701, CALIFORNIA STATE FIRE MARSHAL, ASTM E84, CAN/ULC-S-109 & CAN/ULC-S-102 SPECIFICATIONS.

2. THIS STRUCTURE IS DESIGNED TO SHED/RELEASE SNOW. THE PERIMETER OF THE STRUCTURE SHALL BE KEPT CLEAR.

3. WHEN DESIGNING A HEATING, VENTILATION OR AIR CONDITIONING SYSTEM FOR ANY TYPE OF BUILDING, IT IS IMPORTANT TO ENSURE THAT THIS SYSTEM INTAKES MORE AIR THAN IS BEING EXHAUSTED AT ANY GIVEN TIME. THIS PROCESS WILL RESULT IN A POSITIVE PRESSURE BEING MAINTAINED. CONVERSELY, IF NEGATIVE PRESSURE EXISTS WITHIN THE STRUCTURE, IT WILL BE

4. ALL INTERIOR WALLS & PARTITIONS (IF APPLICABLE) TO BE FREE STANDING & INDEPENDENT OF SPRUNG STRUCTURE.

DIFFICULT TO OPEN DOORS AND MOISTURE WILL BE DRAWN INTO THE STRUCTURE.





1245 E. BRICKYARD ROAD, SUITE 200 SALT LAKE CITY, UTAH PH. (801) 486.6848 info@canyonsstructural.com www.canyonsstructural.com

DESIGN LOADS

LOCATION: BUILDING CODE: WIND SPEED: 115 mph 3 SEC GUS RISK CATEGORY: ■ EXPOSURE: GROUND SNOW LOAD: (SEE SNOW SHED REPORT)

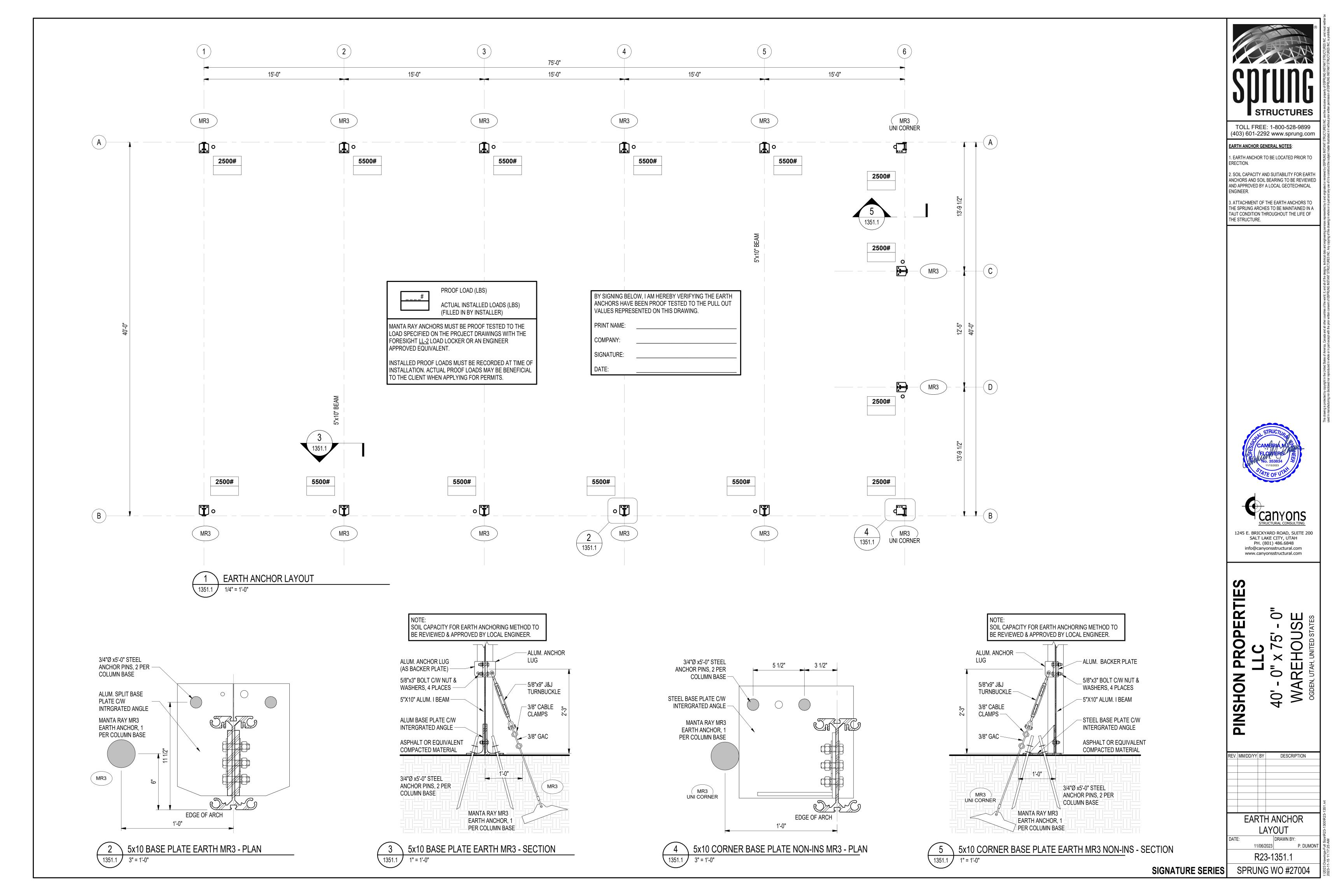
PINSHON PROPERTIES

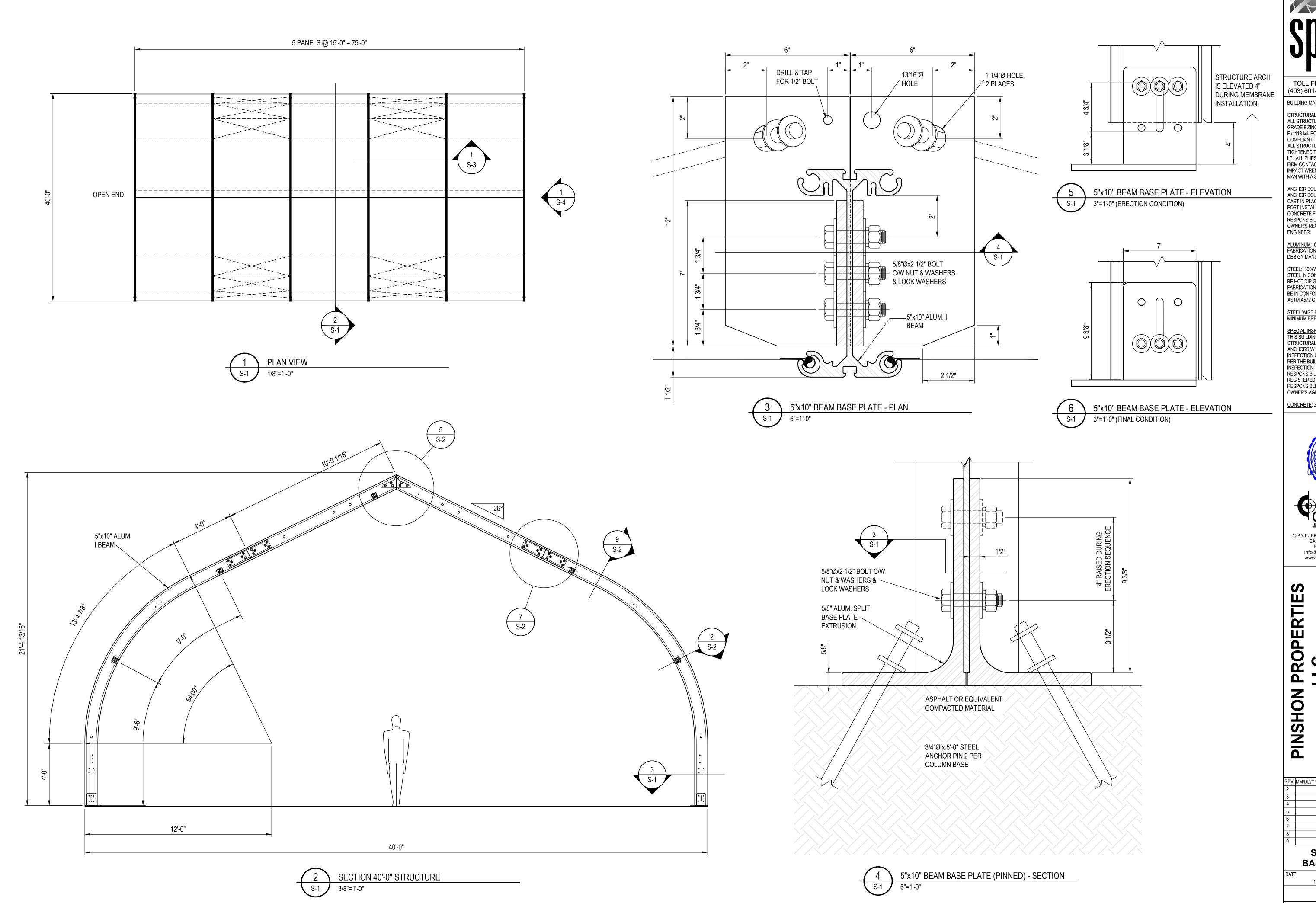
40' - 0" x 75' - 0" WAREHOUSE LLC " × 75" 0

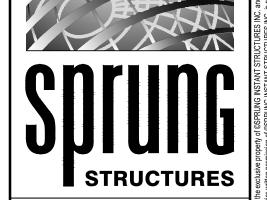
REV.	MM/DD/YY	BY	DESCRIPTION
2			
3			
4			
5			
6			
7			
8			
9			
		70	PDIAN &

FLOOR PLAN & **ELEVATIONS** 11/01/2023 B. PHILIPOFF

R23-1351.0 **SPRUNG WO #27004**







TOLL FREE: 1-800-528-9899 (403) 601-2292 www.sprung.com

BUILDING MATERIALS:

STRUCTURAL BOLTS:
ALL STRUCTURAL BOLTS SHALL BE SAE
GRADE 8 ZINC-DICHROMATE PLATED, WITH
Fu=113 ksi. BOLTS ARE ASTM A325
COMPLIANT.

ALL STRUCTURAL BOLTS SHALL BE
TIGHTENED TO A SNUG TIGHT CONDITION;
I.E., ALL PLIES SHALL BE BROUGHT INTO
FIRM CONTACT WITH A FEW IMPACTS OF AN
IMPACT WRENCH OR THE FULL EFFORT OF A
MAN WITH A SPUD WRENCH.

ANCHOR BOLTS:
ANCHOR BOLTS SHALL NOT BE
CAST-IN-PLACE. THE DEVELOPMENT OF THE
POST-INSTALLED ANCHORS INTO THE
CONCRETE FOUNDATION IS THE
RESPONSIBILITY OF THE OWNER OR THE
OWNER'S REGISTERED FOUNDATION

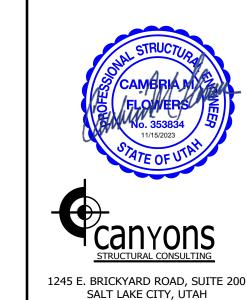
ALUMINUM: 6351-T6, DESIGN AND FABRICATION SHALL BE PER THE ALUMINUM DESIGN MANUAL.

STEEL: 300W CSA, G40.21, FY=44 KSI, ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE HOT DIP GALVANIZED. DESIGN AND FABRICATION OF STRUCTURAL STEEL SHALL BE IN CONFORMANCE WITH AISC 360-16 & ASTM A572 GRADE 42 COMPLIANT.

STEEL WIRE ROPE: 6X19+ IWRC, 26,600 LBS MINIMUM BREAKING STRENGTH.

SPECIAL INSPECTION:
THIS BUILDING INCORPORATES
STRUCTURAL BOLTS AND POST-INSTALLED
ANCHORS WHICH MAY REQUIRE SPECIAL
INSPECTION UNDER THE BUILDING CODE.
PER THE BUILDING CODE, SPECIAL
INSPECTION, IF REQUIRED, IS THE
RESPONSIBILITY OF THE OWNER OR THE
REGISTERED DESIGN PROFESSIONAL IN
RESPONSIBLE CHARGE ACTING AS THE
OWNER'S AGENT.

CONCRETE: 3000psi OR GREATER



1245 E. BRICKYARD ROAD, SUITE 200 SALT LAKE CITY, UTAH PH. (801) 486.6848 info@canyonsstructural.com www.canyonsstructural.com

LLC40'-0" × 75'-0"
WARFHOUSE

REV.	MM/DD/YY	BY	DESCRIPTION			
2						
3						
4						
5						
6						
7						
8						
9						
SECTION & BASE DETAILS						
DATE			DRAWN RV:			

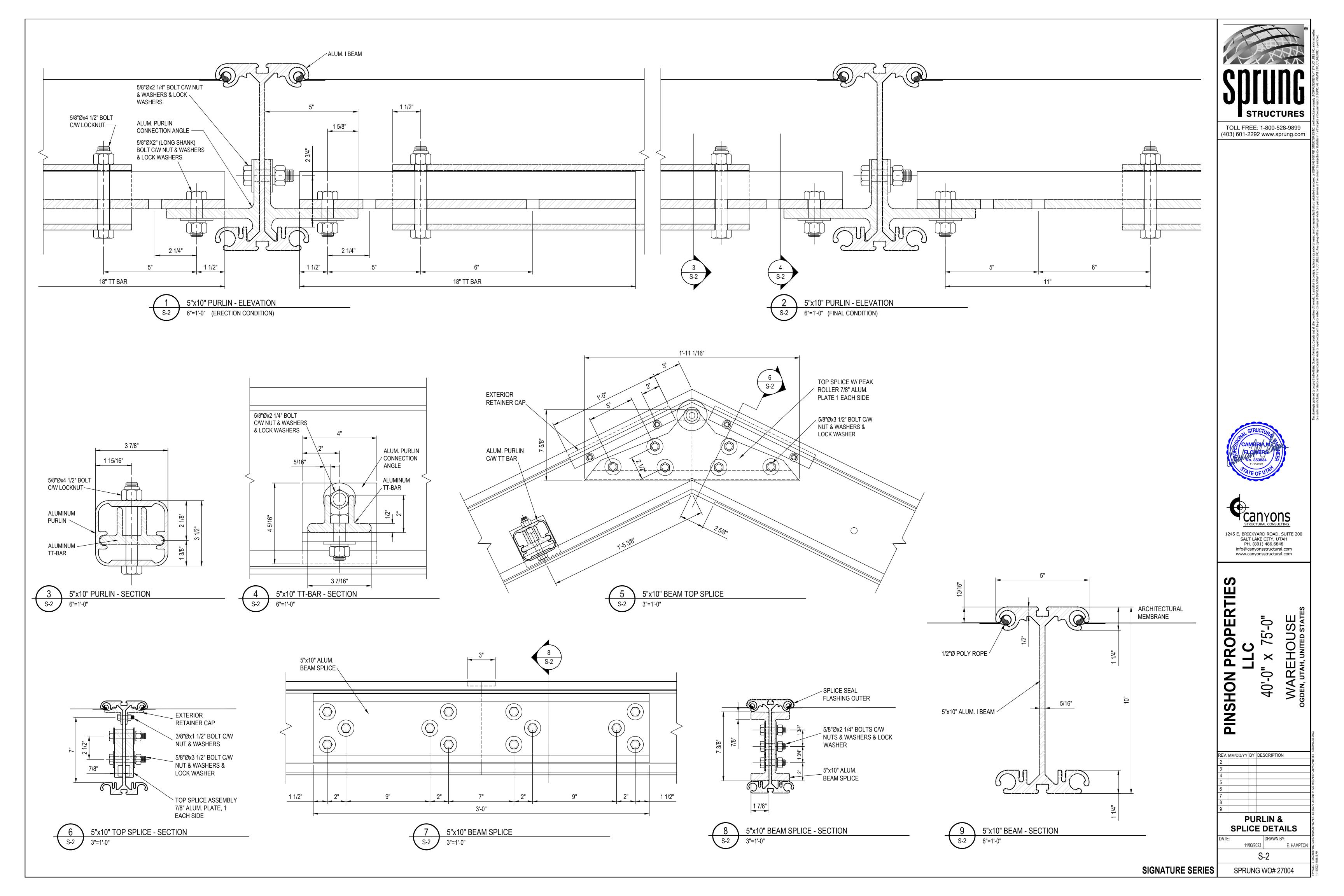
SIGNATURE SERIES

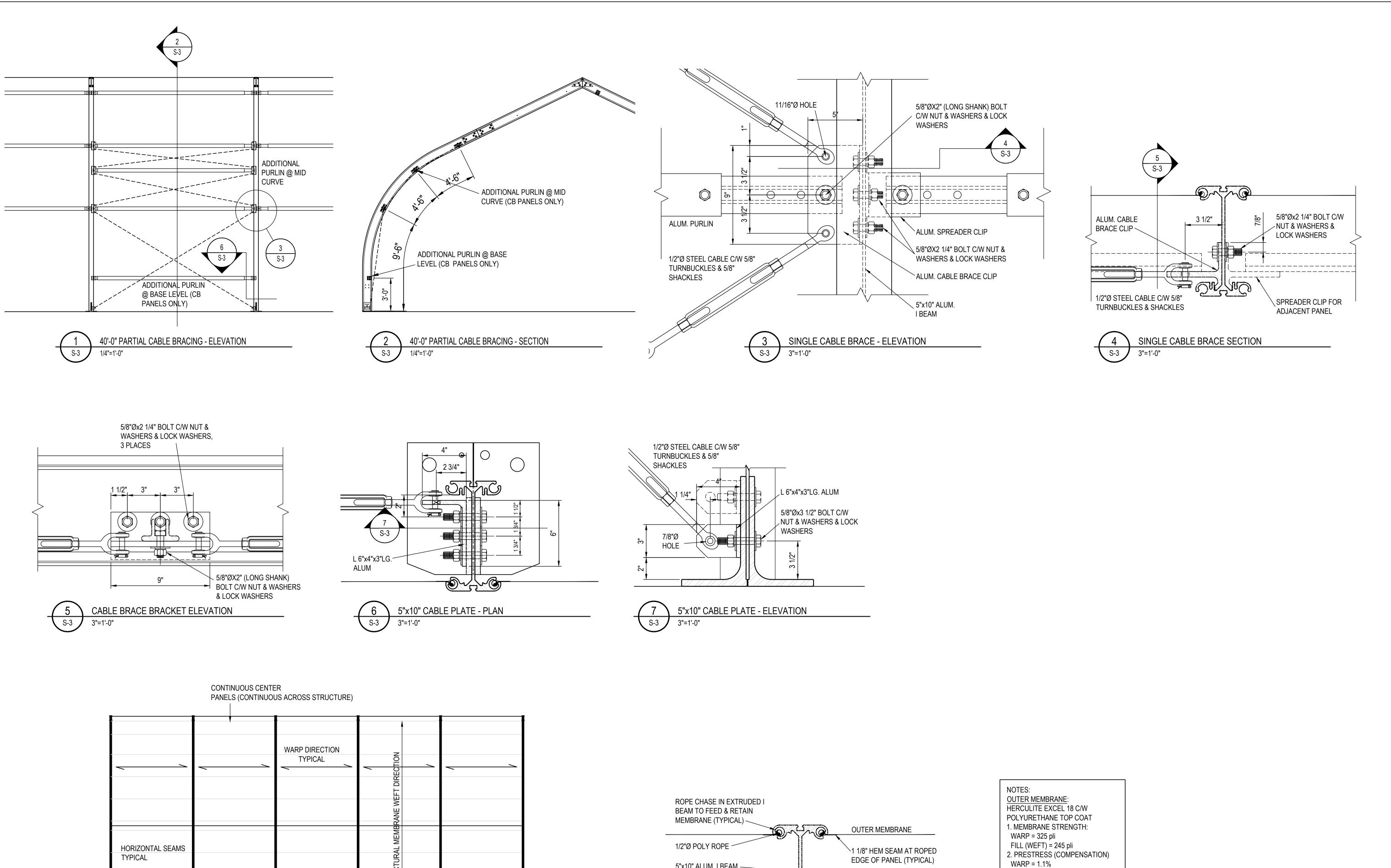
SPRUNG WO# 27004

E. HAMPTON

11/03/2023

JRE SERIES | SPRUNG \





5"x10" ALUM. I BEAM -

5"x10" BEAM SECTION - MEMBRANE

MEMBRANE LAYOUT

FILL (WEFT) = 0.5%

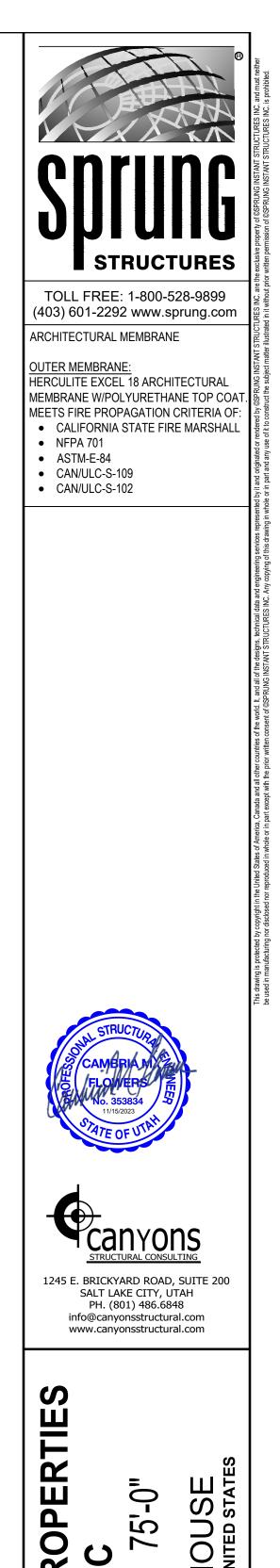
POLYESTER SCRIM

FOR THIS STRUCTURE.

3. MEMBRANE - PVC COATED

WARP DIRECTION IS THE SPAN DIRECTION FOR THE FABRIC

ALL HORIZONTAL SEAMS = 1 INCH



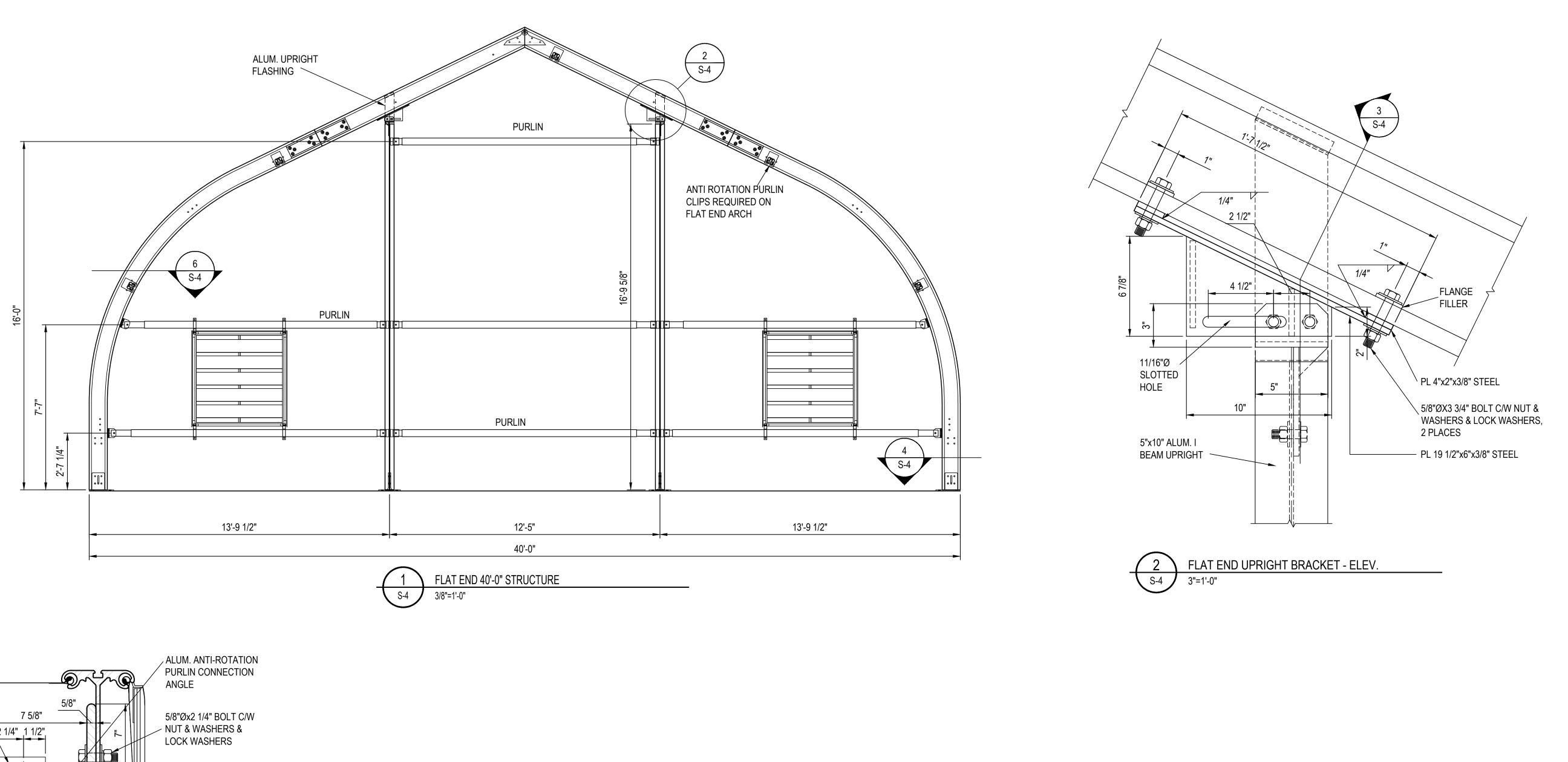
PROPERTIE 40'-0" NOHSNIC

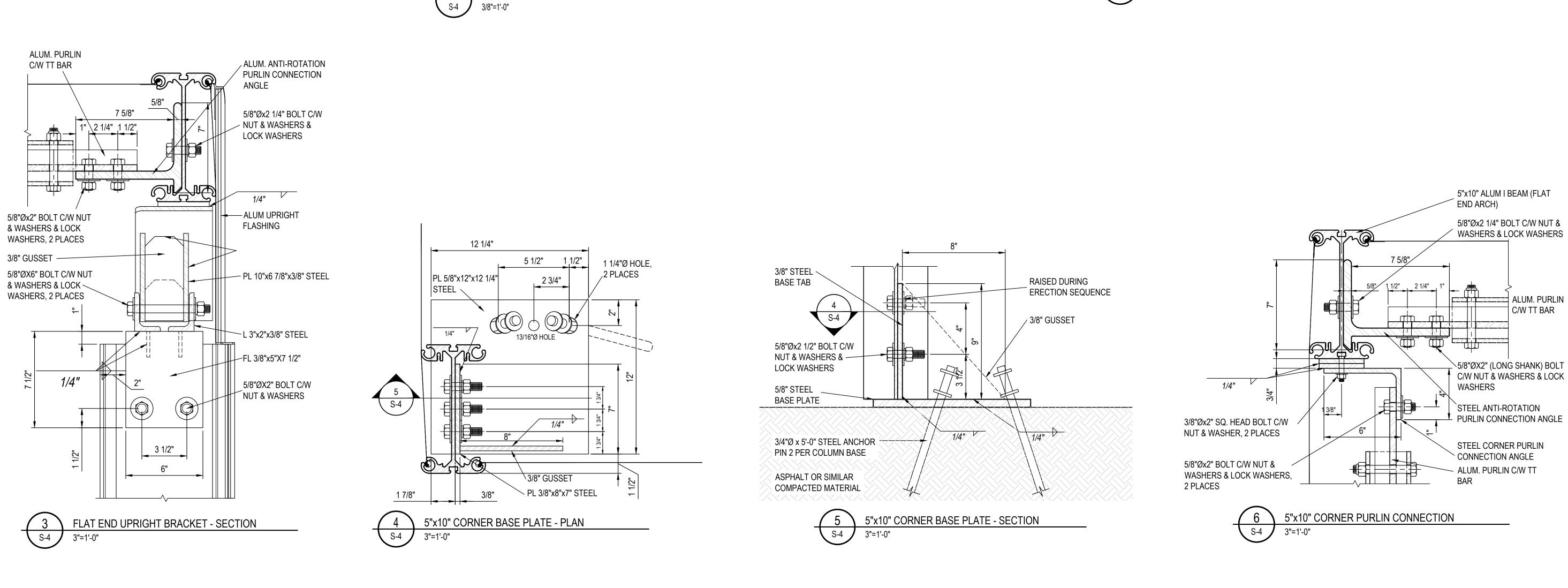
REV.	MM/DD/YY	BY	DESCRIPTION				
2							
3							
4							
5							
6							
7							
8							
9							
CABLE BRACE & MEMBRANE DETAILS							
DATE:			DRAWN BY:				

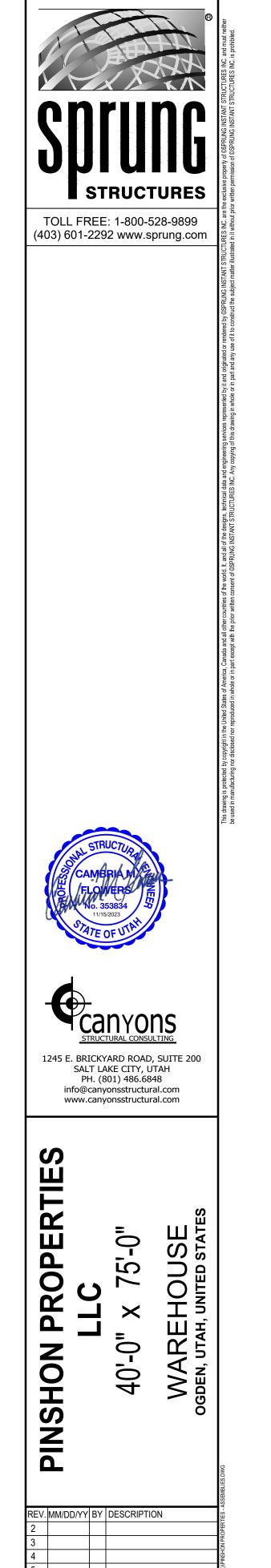
11/03/2023 E. HAMPTON

SPRUNG WO# 27004

SIGNATURE SERIES







SIGNATURE SERIES

FLAT END DETAILS

SPRUNG WO# 27004

E. HAMPTON

11/03/2023