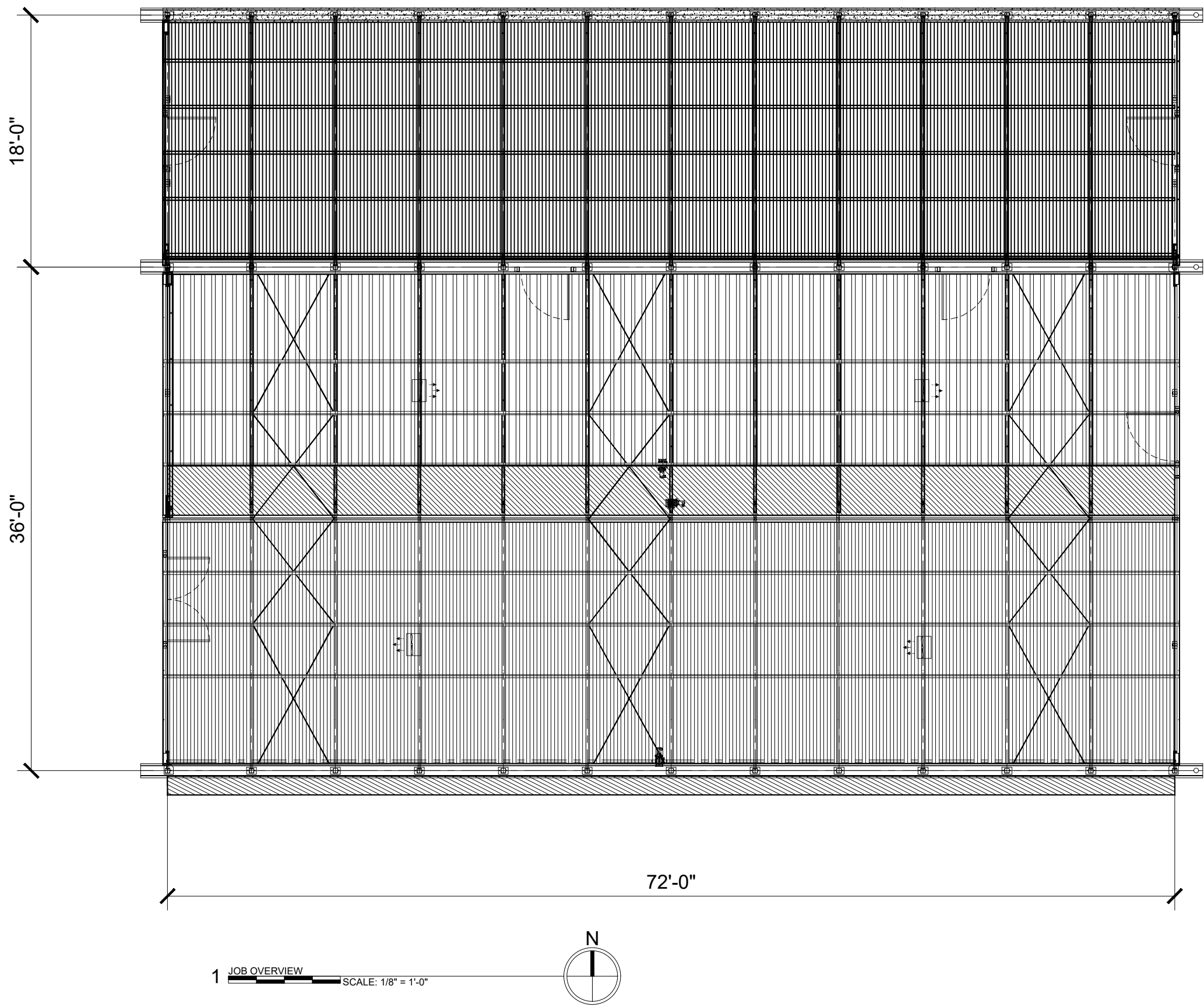


HOME RANCH

54880 COUNTY ROAD 129  
CLARK, CO 80428

PAGE	DESCRIPTION
GH-0.0	TITLE PAGE
GH-1.0	COLUMN LAYOUT, ROOF PLAN
GH-1.1	EQUIPMENT LAYOUT
GH-2.0	GABLE END, SECTION & SIDEWALL ELEVATIONS - FRAMING
GH-2.1	GABLE END, SECTION & SIDEWALL ELEVATIONS - GLAZING & EQUIPMENT
GH-3.0	8MM POLYCARBONATE ROOF VENT DETAILS
GH-4.0	8MM POLYCARBONATE INTERIOR SIDE VENT DETAILS
GH-5.0	8MM POLYCARBONATE ROOF GLAZING DETAILS
GH-5.1	8MM POLYCARBONATE SIDES & ENDS GLAZING DETAILS W/ BASEPLATES
GH-6.0	CORRUGATED METAL W/ INSULATION & INSIDE METAL ROOF GLAZING DETAILS
GH-6.1	CORRUGATED METAL W/ INSULATION & INSIDE METAL ROOF GLAZING DETAILS, CONT
GH-6.2	CORRUGATED METAL W/ INSULATION & INSIDE METAL SIDES & ENDS GLAZING DETAILS

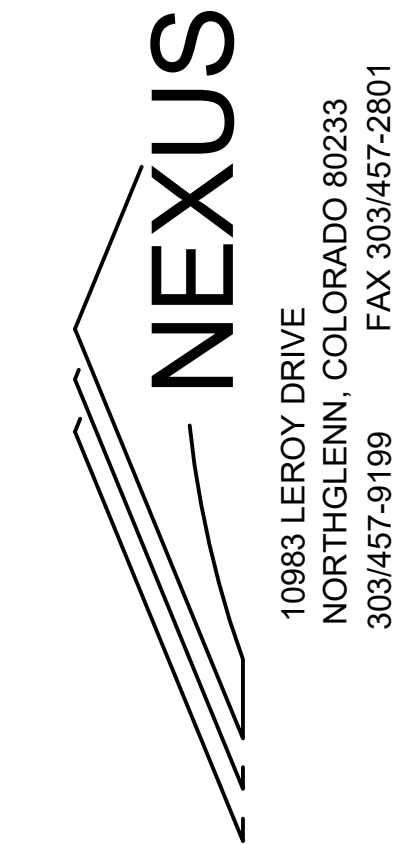


NOTE:

1. NEXUS IS RESPONSIBLE FOR THE DESIGN OF THE STRUCTURE ONLY. FOUNDATION AND SLAB DESIGNS ARE BY OTHERS. VERIFICATION OF THE CONCRETE IS THE RESPONSIBILITY OF OTHERS.
2. DESIGN DATA:  
2015 INTERNATIONAL BUILDING CODE, CHAPTER 16/ ASCE 7-10
- |                                     |  |
|-------------------------------------|--|
| RISK CATEGORY                       | II   |
| DEAD LOAD (PURLIN DESIGN)           | DL = 1.0 psf   |
| DEAD LOAD (TRUSS DESIGN)            | DL = 2.0 psf   |
| DEAD LOAD (COLUMN DESIGN)           | DL = 3.0 psf   |
| ROOF LIVE LOAD                      | LL = 20 psf  |
| SNOW DESIGN                         |  |
| GROUND SNOW LOAD                    | P <sub>g</sub> = 112 psf   |
| SNOW EXPOSURE FACTOR                | C <sub>e</sub> = 1.0   |
| SNOW LOAD IMPORTANCE FACTOR         | I = 1.0  |
| THERMAL FACTOR                      | C <sub>t</sub> = 1.0   |
| ROOF SNOW LOAD                      | P <sub>f</sub> = 0.7*C <sub>e</sub> *C <sub>t</sub> *I*P <sub>g</sub> = 78 psf |
| MINIMUM ROOF SNOW LOAD              | P <sub>min</sub> = 78 psf  |
| WIND DESIGN                         |  |
| ULTIMATE WIND SPEED (3 SECOND GUST) | V <sub>ult</sub> = 115 mph   |
| NOMINAL WIND SPEED (3 SECOND GUST)  | V <sub>asd</sub> = 89 mph  |
| WIND EXPOSURE                       | B  |
| INTERNAL PRESSURE COEFFICIENT       | GC <sub>pi</sub> = +/- 0.18  |
| BASIC WIND PRESSURE                 | q = 15.9 psf   |
| SEISMIC DESIGN                      |  |
| SEISMIC IMPORTANCE FACTOR           | I = 1.0  |
| SPECTRAL RESPONSE ACCELERATION      | S <sub>s</sub> = 0.262   |
| SPECTRAL RESPONSE ACCELERATION      | S <sub>1</sub> = 0.074   |
| SITE CLASS                          | D  |
| SPECTRAL RESPONSE COEFFICIENT       | S <sub>DS</sub> = 0.278  |
| SPECTRAL RESPONSE COEFFICIENT       | S <sub>D1</sub> = 0.118  |
| SEISMIC DESIGN CATEGORY             | B  |
| EQUIVALENT LATERAL FORCE PROCEDURE  |  |
| DESIGN BASE SHEAR                   | V = 0.09 x W   |
| RESPONSE MODIFICATION FACTOR        | R = 3.0  |
| SEISMIC RESPONSE COEFFICIENT        | C <sub>s</sub> = 0.09  |
3. TYPICAL COLUMN AND POST DIMENSIONS ARE CENTER TO CENTER (C.C.) OF MEMBERS UNLESS OTHERWISE NOTED. TYPICAL WALL MEMBER DIMENSIONS ARE FROM GRADE TO TOP OF MEMBER.
4. R.O. = ROUGH OPENING DIMENSION  
C.C. = CENTER TO CENTER DIMENSION  
O.O. = OUT TO OUT DIMENSION  
V.I.F. = VERIFY IN FIELD  
U.G. = UNDER GUTTER HEIGHT
5. DEPENDING ON SITE AND PROJECT CONDITIONS, SOME FIELD FABRICATION MAY BE REQUIRED, INCLUDING DRILLING, CUTTING AND WELDING OF STEEL OR ALUMINUM MATERIALS.



STRUCTURE ONLY

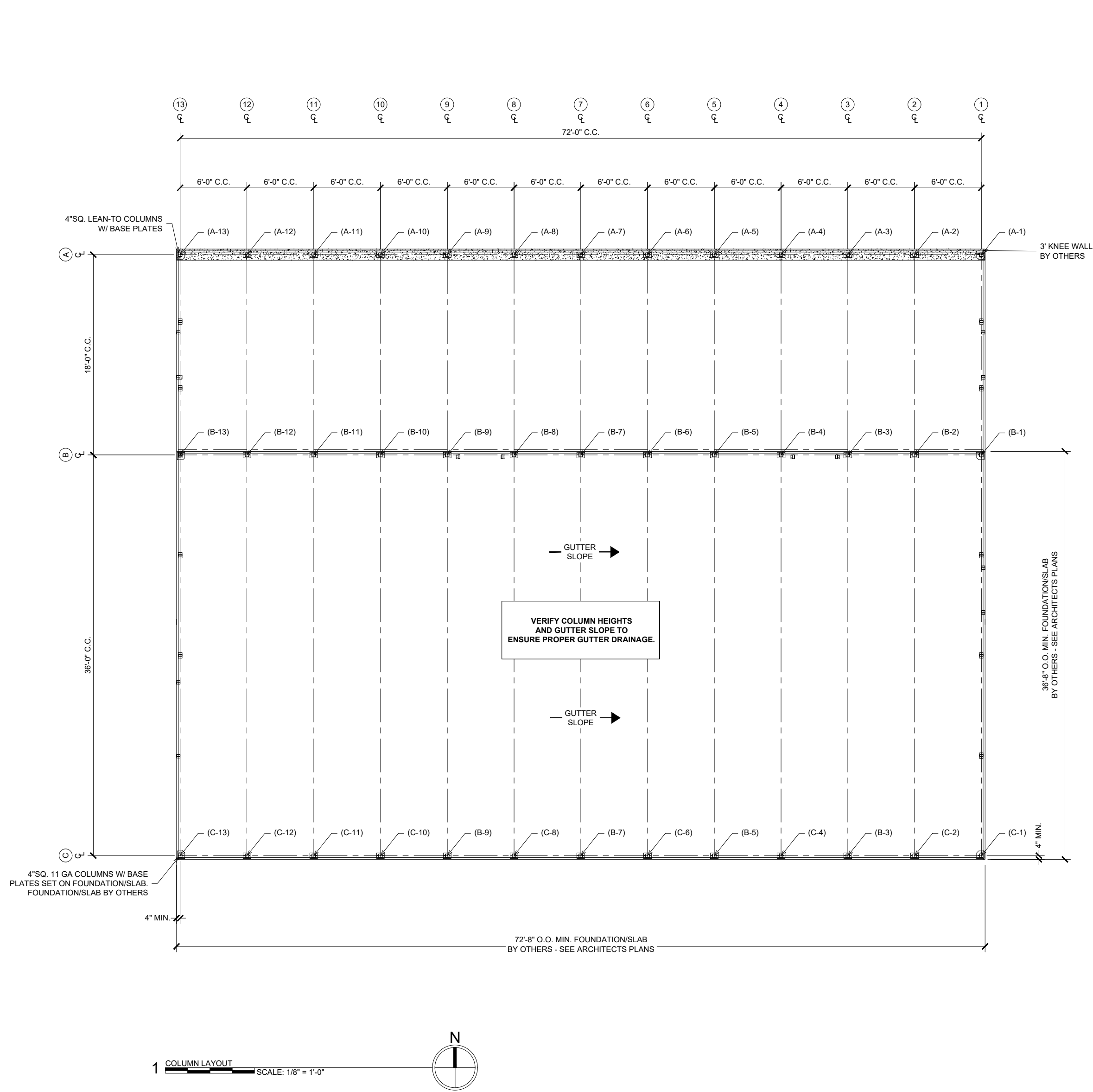


HOME RANCH  
54880 COUNTY ROAD 129, CLARK, CO 80428  
(1) 36'-0" X 72'-0" VAIL STRUCTURE  
TITLE PAGE

CREATION DATE:  
07/22/20  
DRAWN BY:  
A. HATCHER  
CHECKED BY:  
S. ELLIOTT  
SALESPERSON:  
P. GOLDEN

REVISIONS:

SHEET #:  
NEXUS JOB #:  
GH-0.0  
N36493

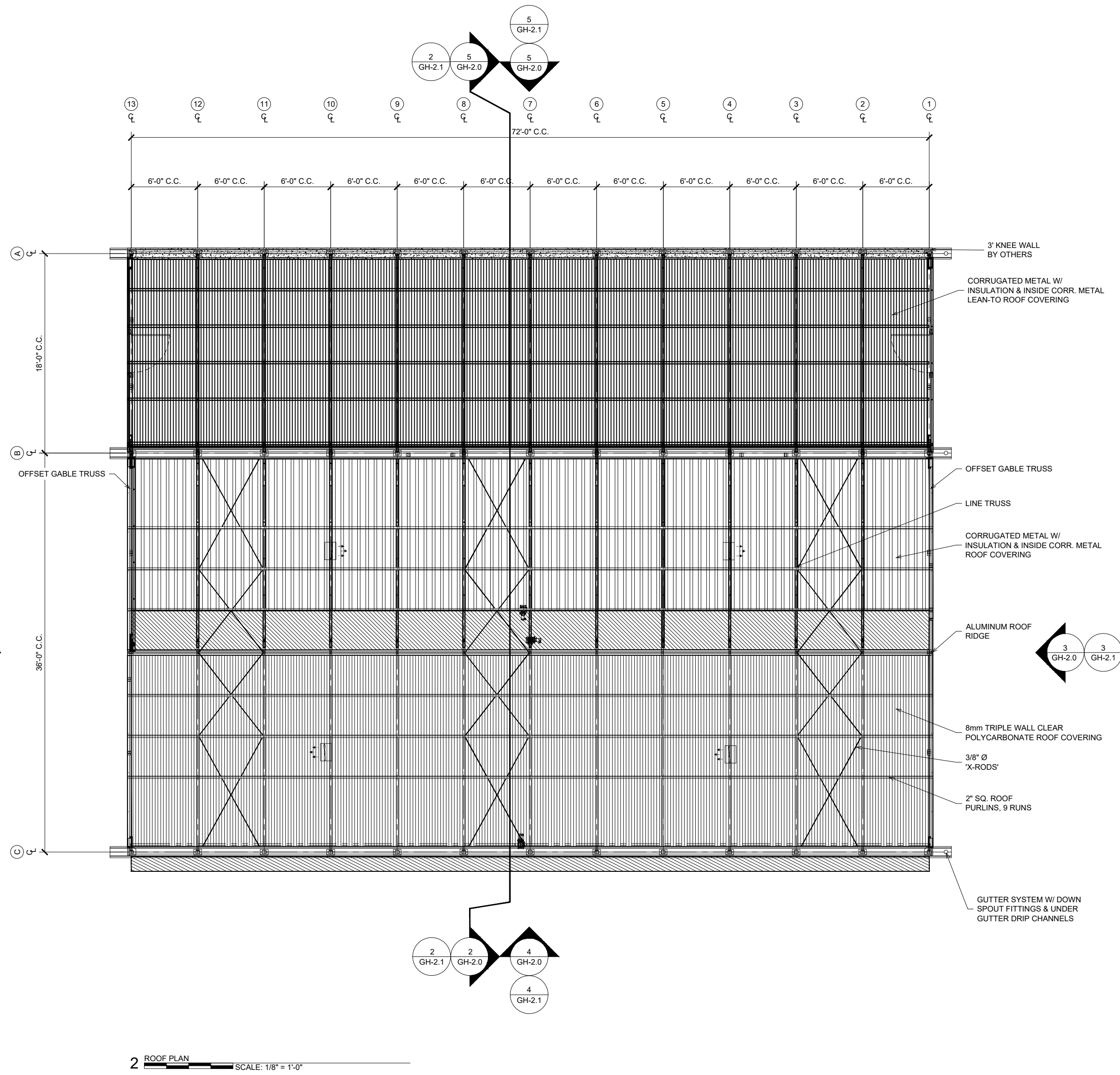


COLUMN HEIGHTS	
13	14'-0"
12	13'-11 3/4"
11	13'-11 1/2"
10	13'-11 1/4"
9	13'-11"
8	13'-10 3/4"
7	13'-10 1/2"
6	13'-10 1/4"
5	13'-10"
4	13'-9 3/4"
3	13'-9 1/2"
2	13'-9 1/4"
1	13'-9"

VERIFY COLUMN HEIGHTS AND GUTTER SLOPE TO ENSURE PROPER GUTTER DRAINAGE.

LEAN-TO COLUMN HEIGHTS	
13	5'-3 3/4"
12	5'-3 1/2"
11	5'-3 1/4"
10	5'-3"
9	5'-2 3/4"
8	5'-2 1/2"
7	5'-2 1/4"
6	5'-2"
5	5'-1 3/4"
4	5'-1 1/2"
3	5'-1 1/4"
2	5'-1"
1	5'-0 3/4"

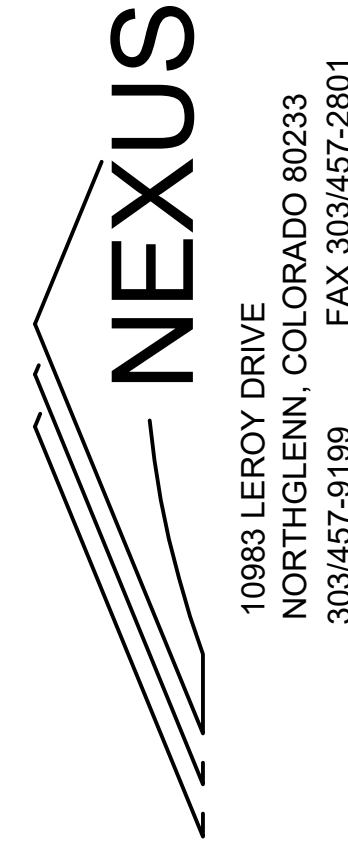
VERIFY COLUMN HEIGHTS AND GUTTER SLOPE TO ENSURE PROPER GUTTER DRAINAGE.



8/19/2020

STRUCTURE ONLY

PROFESSIONAL ENGINEER SEAL



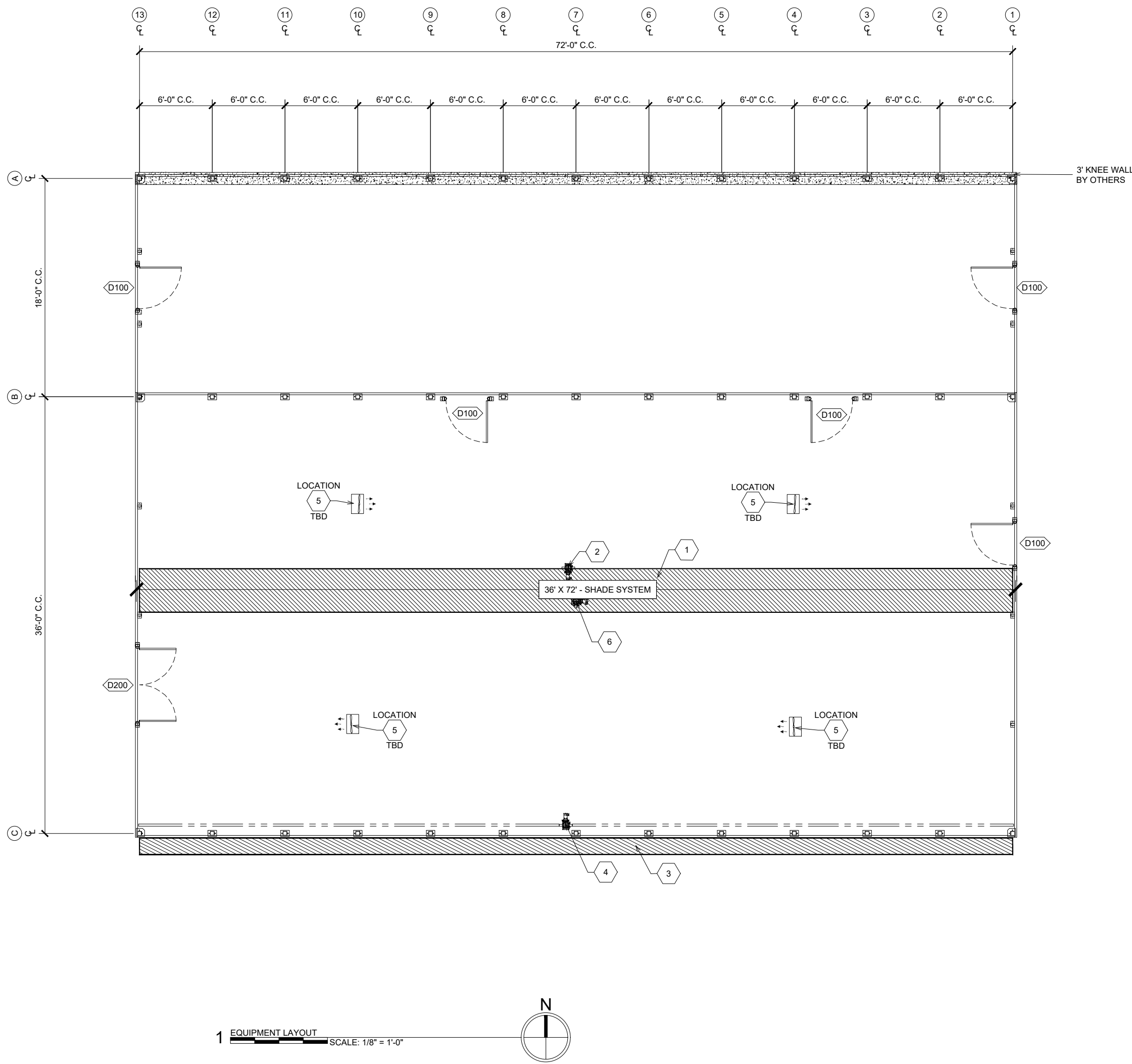
HOME RANCH  
54880 COUNTY ROAD 129, CLARK, CO 80428  
(1) 36'-0" X 72'-0" VAIL STRUCTURE  
COLUMN LAYOUT & ROOF PLAN

CREATION DATE:  
07/22/20  
DRAWN BY:  
A. HATCHER  
CHECKED BY:  
S. ELLIOTT  
SALESPERSON:  
P. GOLDEN

REVISIONS:

SHEET #:  
NEXUS JOB #:  
N36493





EQUIPMENT SCHEDULE				
ITEM NO.	QTY	EQUIPMENT TYPE	EQUIPMENT DESCRIPTION	TRADE
1	1	NEXUS SINGLE RIDGE VENT SYSTEM	NEXUS 48" X 72" NOM. SINGLE RIDGE VENT SYSTEM W/ 8mm CLEAR TRIPLE WALL POLYCARBONATE VENT COVERINGS, POWER SUPPLY REQUIRED FOR MOTOR.	MECHANICAL
2	1	VENT MOTOR	WADSWORTH MODEL VC2000 ROOF VENT MOTOR, MOUNTED IN GREENHOUSE TRUSSES, POWER SUPPLY REQUIRED.	ELECTRICAL
3	1	NEXUS SINGLE INTERIOR SIDEWALL VENT SYSTEM	SINGLE NEXUS 36" X 72" NOM. RACK AND PINION VENT SYSTEM W/ 8mm CLEAR TRIPLE WALL POLYCARBONATE VENT COVERINGS, POWER SUPPLY REQUIRED FOR MOTOR.	MECHANICAL
4	1	VENT MOTOR	WADSWORTH MODEL VC2000 EXTERIOR RACK AND PINION VENT MOTOR, POWER SUPPLY REQUIRED.	ELECTRICAL
5	4	HAF FANS	AMERICAN COOLAIR FH18B11, 18" HAF FANS, POWER SUPPLY REQUIRED.	ELECTRICAL
6	1	SHADE MOTOR	WADSWORTH MODEL VC2000 SHADE MOTOR MOUNTED IN GREENHOUSE TRUSSES, POWER SUPPLY REQUIRED.	ELECTRICAL

NOTE:  
OTHER EQUIPMENT NOT SHOWN, SEE MANUFACTURE'S SPECIFICATIONS AND/OR DRAWINGS.  
WADSWORTH SEED CONTROLLER  
JOHNSON GENERATOR

DOOR SCHEDULE		
DOOR NO.	QTY	DOOR TYPE
D100	5	PLYCO SERIES 95 SINGLE DOOR W/ NO WINDOW
D200	1	PLYCO SERIES 95 DOUBLE DOOR W/ WINDOW

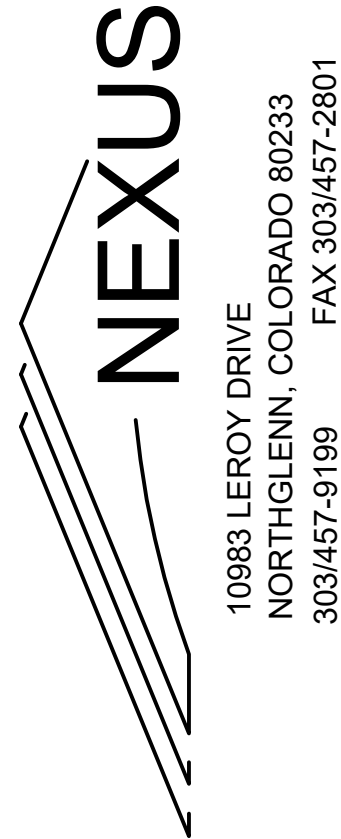
3670 PLYCO SERIES 95 STEEL SINGLE DOOR NO WINDOW, (ROUGH OPENING - 44-1/2" WIDE X 85-3/4" TALL), SEE DOOR SUBMITTALS FOR DOOR HARDWARE.  
6070 PLYCO SERIES 95 STEEL DOUBLE DOOR W/ WINDOWS, (ROUGH OPENING - 75-7/8" WIDE X 85-3/4" TALL), SEE DOOR SUBMITTALS FOR DOOR HARDWARE.



8/19/2020

STRUCTURE ONLY

PROFESSIONAL ENGINEER SEAL



HOME RANCH  
54880 COUNTY ROAD 129, CLARK, CO 80428  
(1) 36'-0" X 72'-0" VAIL STRUCTURE  
EQUIPMENT LAYOUT

CREATION DATE:

07/22/20

DRAWN BY:

A. HATCHER

CHECKED BY:

S. ELLIOTT

SALESPERSON:

P. GOLDEN

REVISIONS:

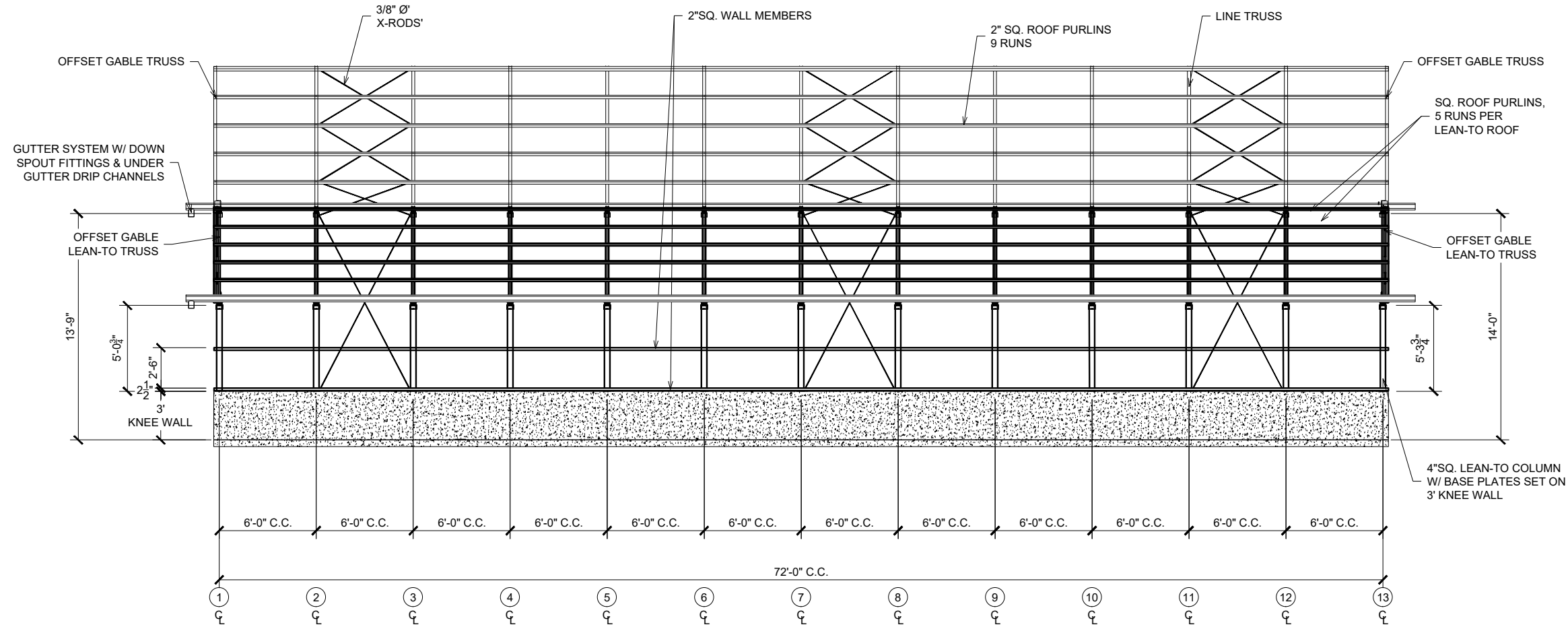
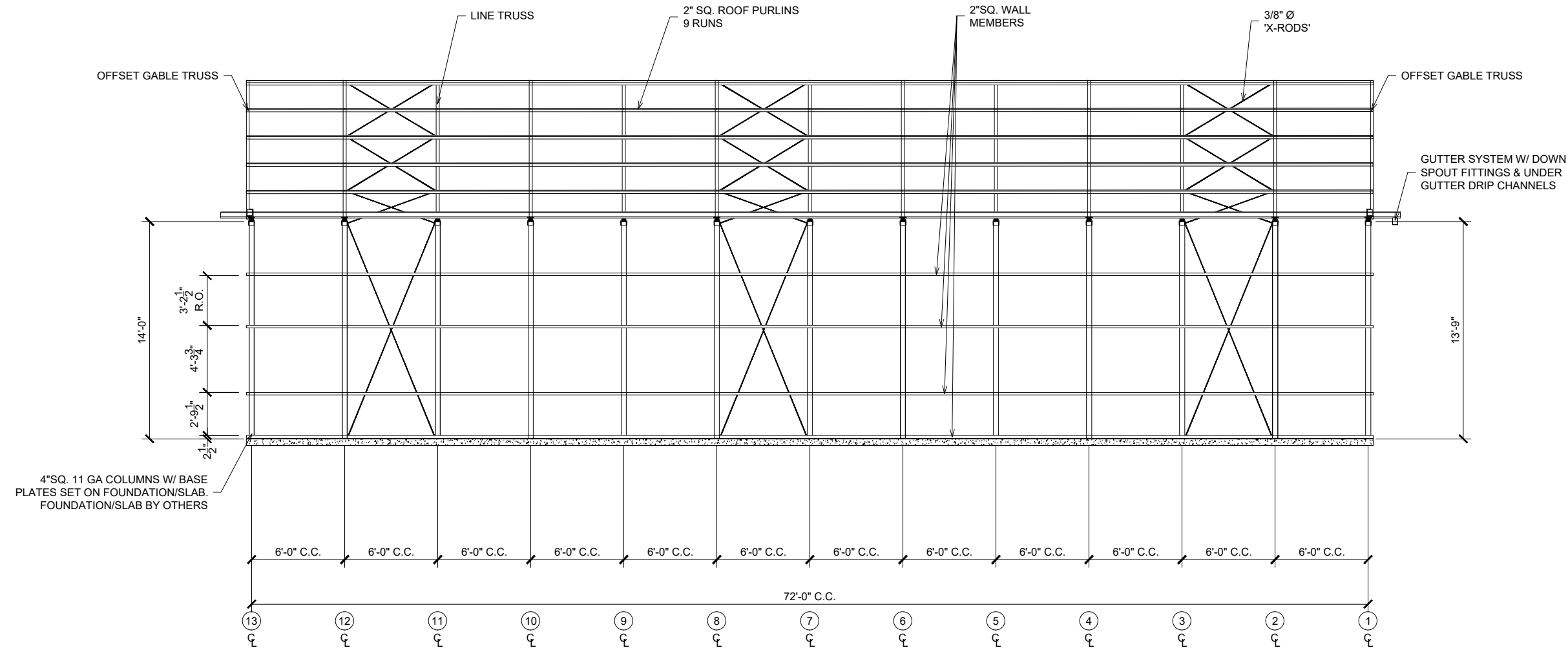
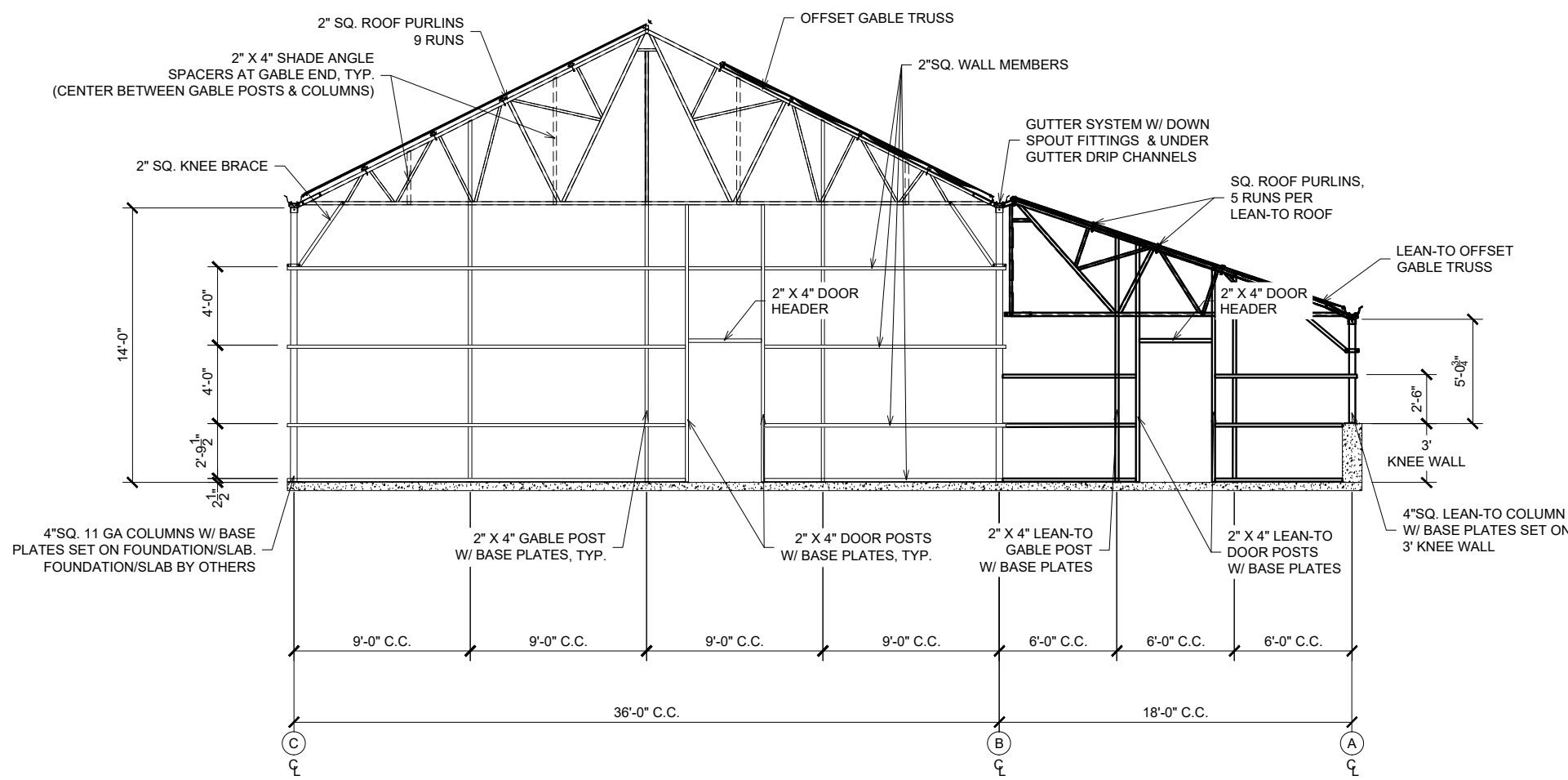
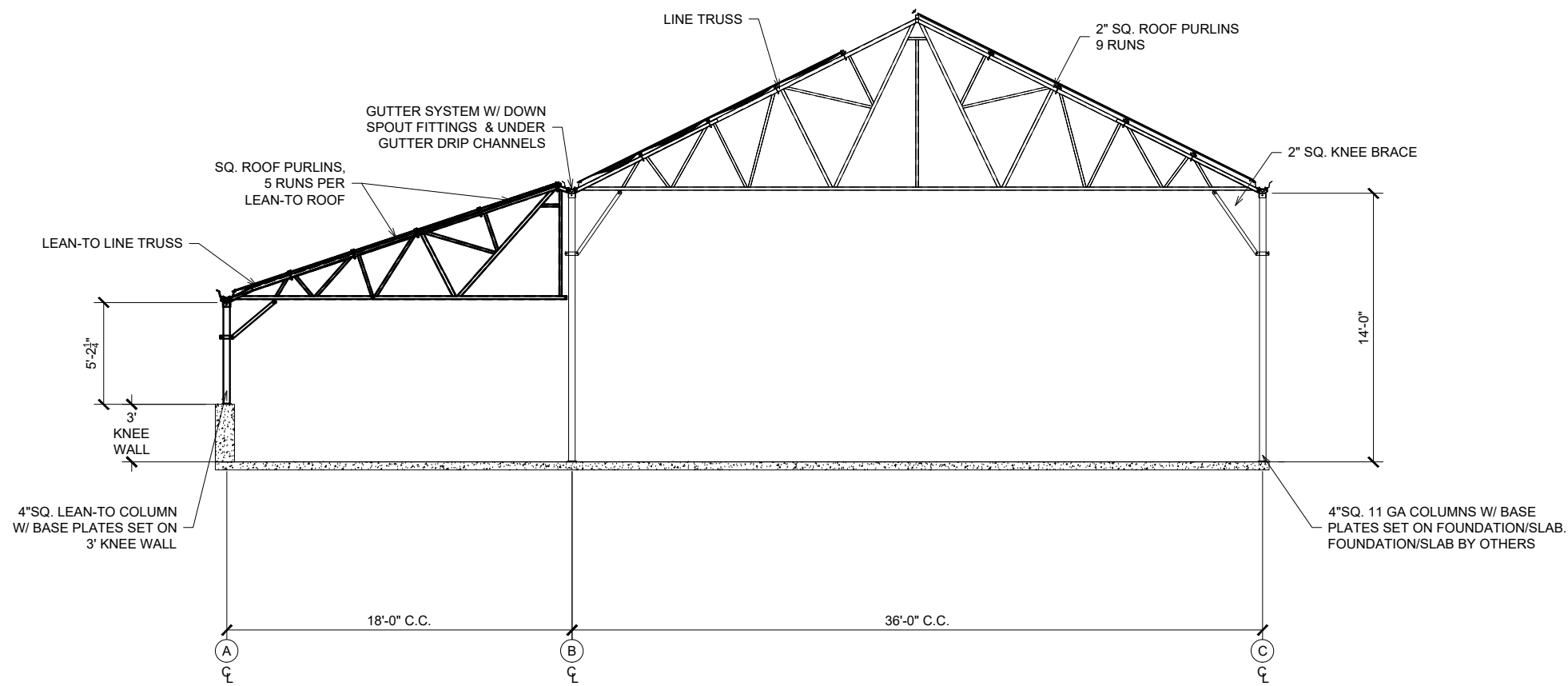
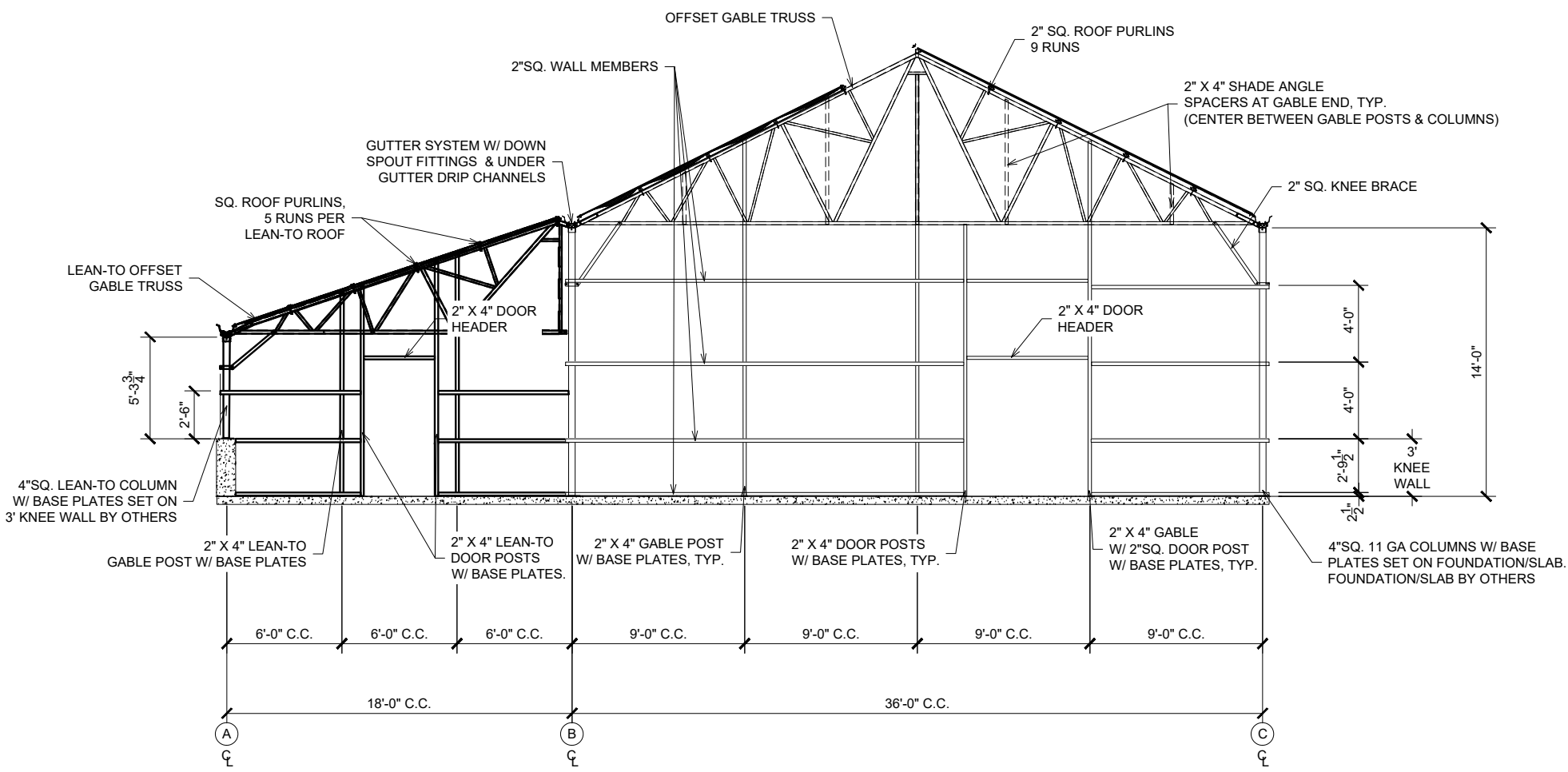
SHEET #:

GH-1.1

NEXUS JOB #:

N36493

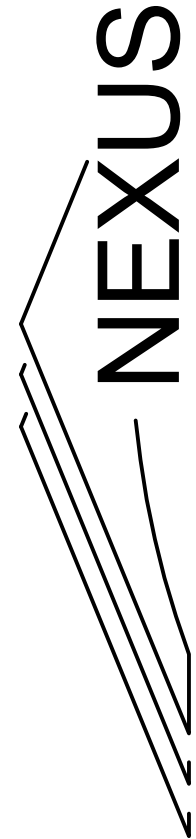
ARCH D 36 X 24 N38493 Home Ranch S:\Comm-Inst-Ref\N38493 Home Ranch\Engineering\Drawings



8/19/2020

STRUCTURE ONLY

PROFESSIONAL ENGINEER SEAL



10983 LEROY DRIVE  
NORTHGLENN, COLORADO 80233  
303/457-9199 FAX 303/457-2801

HOME RANCH  
54880 COUNTY ROAD 129, CLARK, CO 80428  
(1) 36'-0" X 72'-0" VAIL STRUCTURE  
GABLE END, SECTION & SIDE ELEVATIONS  
FRAMING

CREATION DATE:

07/22/20

DRAWN BY:

A. HATCHER

CHECKED BY:

S. ELLIOTT

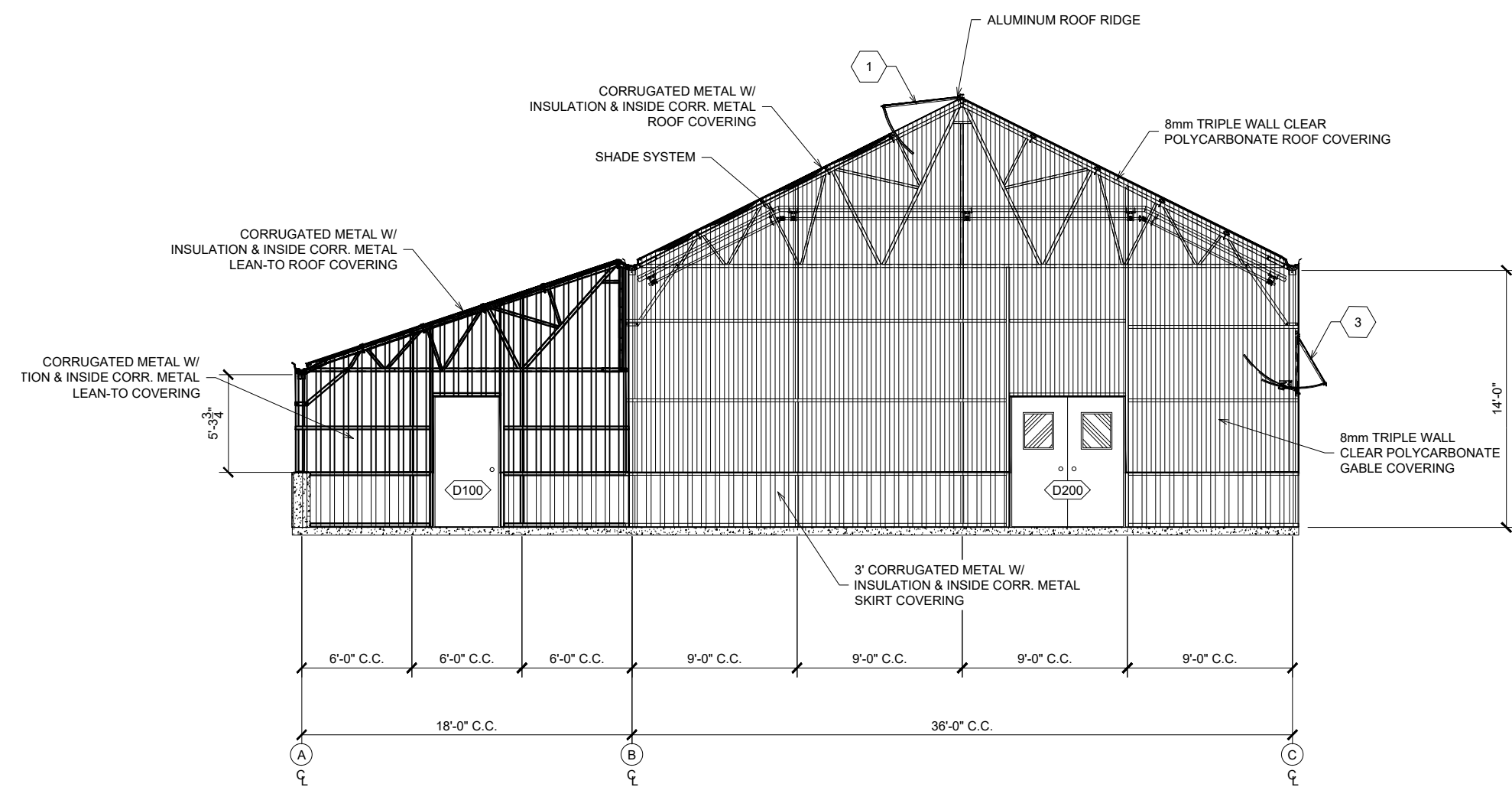
SALESPERSON:

P. GOLDEN

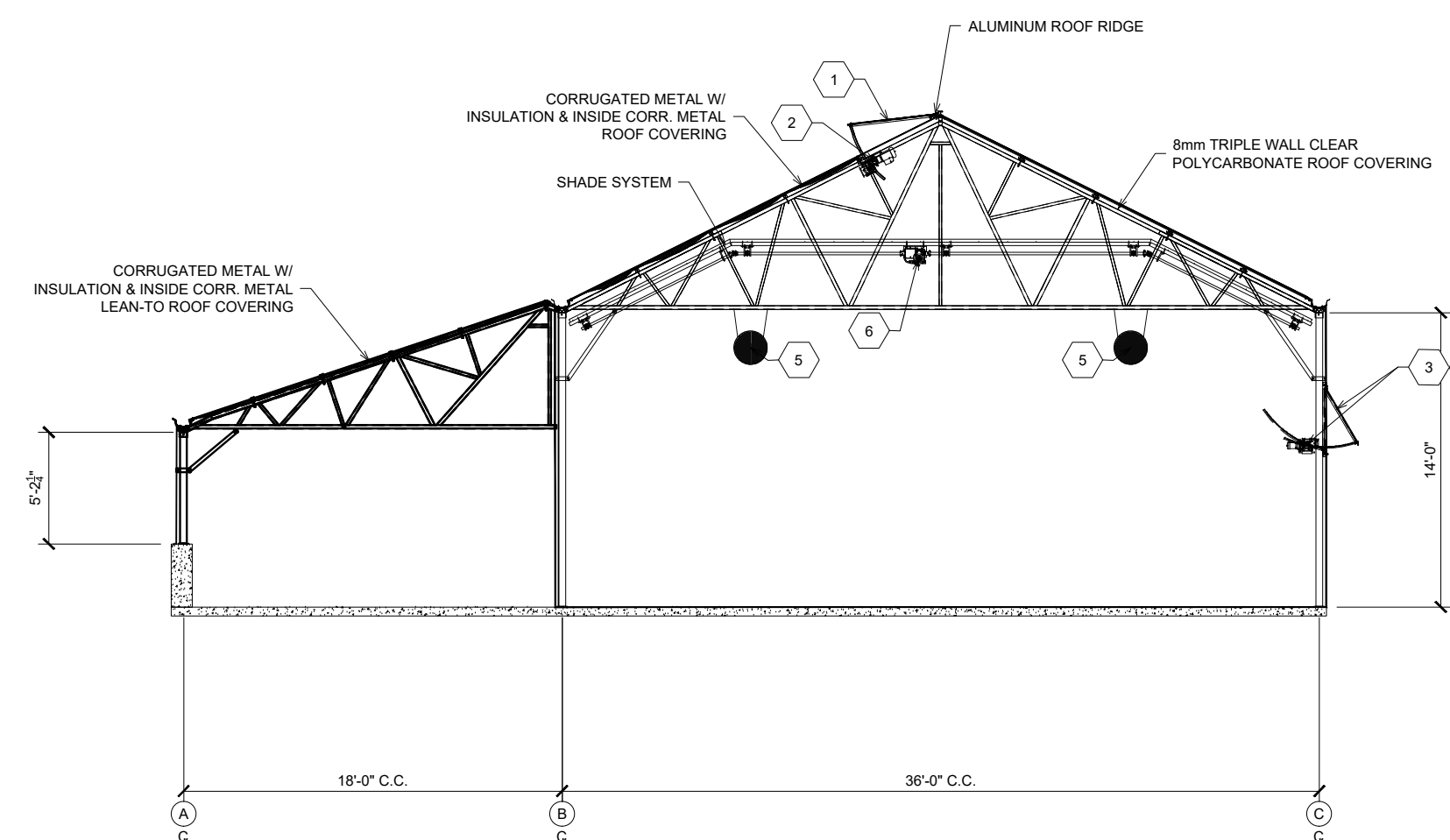
REVISIONS:

SHEET # GH-2.0  
NEXUS JOB #:  
N36493

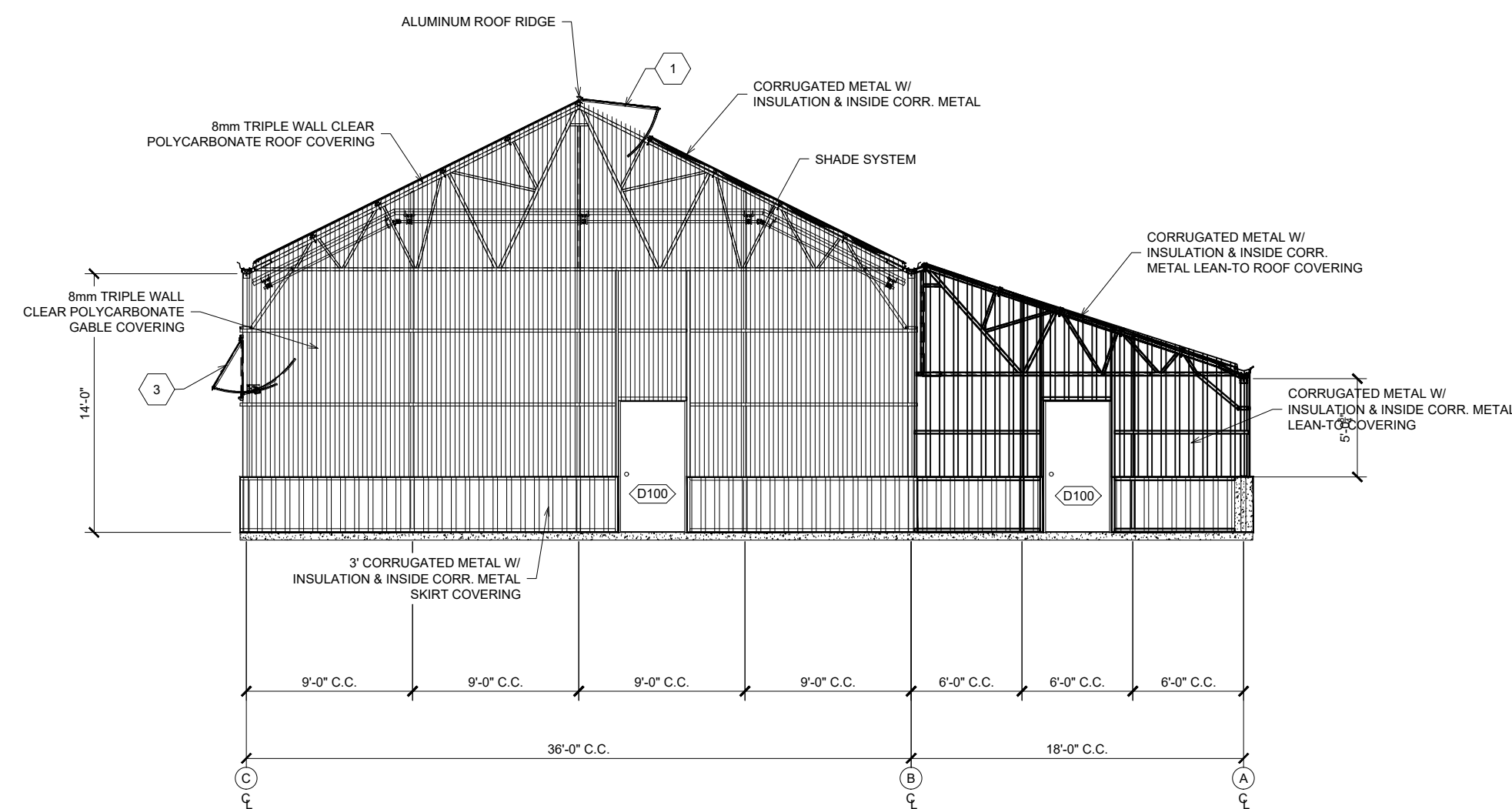




1 GABLE END ELEVATION @ COLUMN LINE "13"  
SCALE: 1/8" = 1'-0"



2 SECTION ELEVATION @ COLUMN LINE '7'  
SCALE: 1/8" = 1'-0"



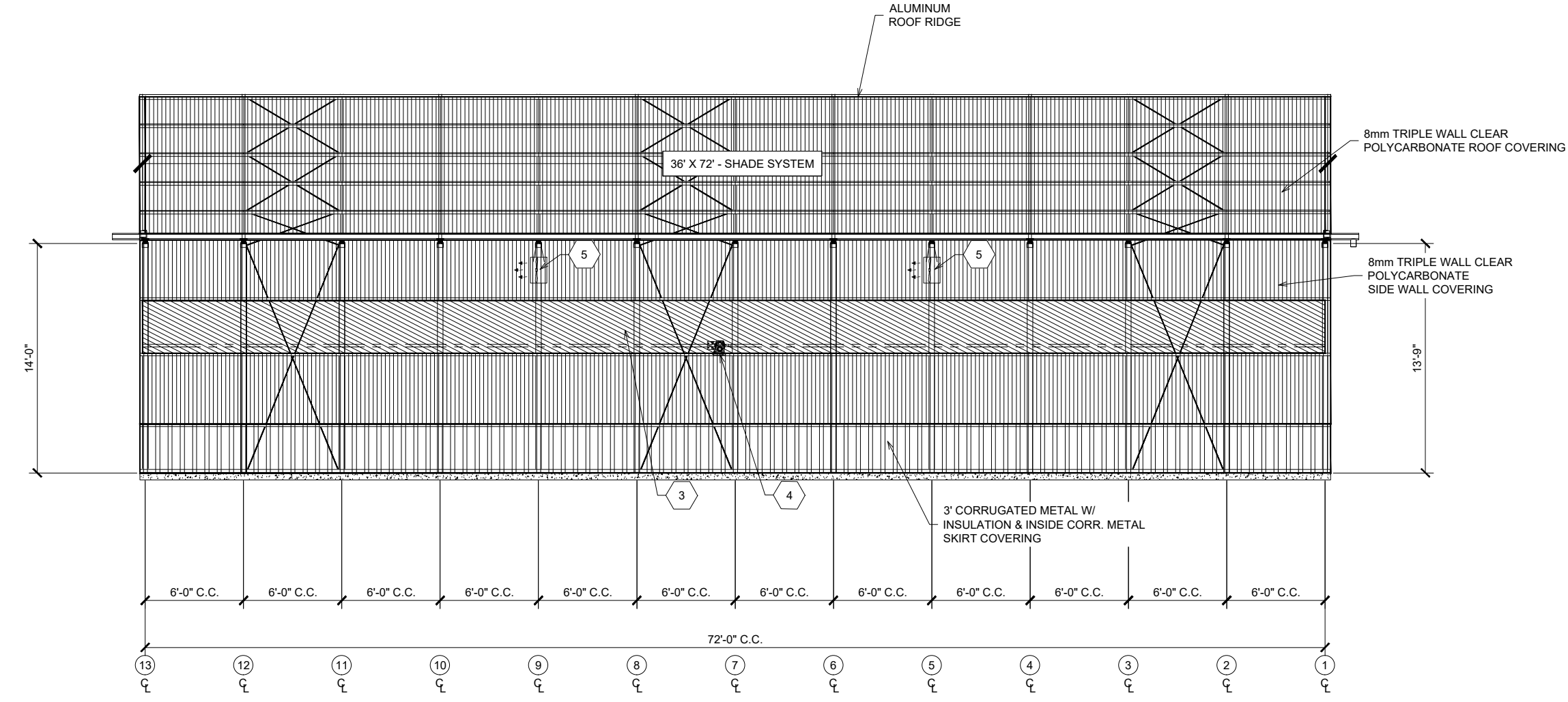
3 GABLE END ELEVATION @ COLUMN LINE '1'  
SCALE: 1/8" = 1'-0"

EQUIPMENT SCHEDULE				
ITEM NO.	QTY.	EQUIPMENT TYPE	EQUIPMENT DESCRIPTION	TRADE
1	1	NEXUS SINGLE RIDGE VENT SYSTEM	NEXUS 48" X 72" ZOM. SINGLE RIDGE VENT SYSTEM W/ 8mm CLEAR TRIPLE WALL POLYCARBONATE VENT COVERINGS. POWER SUPPLY REQUIRED FOR MOTOR.	MECHANICAL ELECTRICAL
2	1	VENT MOTOR	WADSWORTH MODEL VC200 ROOF VENT MOTOR. MOUNTED IN GREENHOUSE TRUSSES. POWER SUPPLY REQUIRED.	MECHANICAL ELECTRICAL
3	1	NEXUS SINGLE INTERIOR SIDEWALL VENT SYSTEM	SINGLE NEXUS 36" X 72" ZOM. RACK AND PINION VENT SYSTEM W/ 8mm CLEAR TRIPLE WALL POLYCARBONATE VENT COVERINGS. POWER SUPPLY REQUIRED FOR MOTOR.	MECHANICAL ELECTRICAL
4	1	VENT MOTOR	WADSWORTH MODEL VC200 EXTERIOR RACK AND PINION VENT MOTOR. POWER SUPPLY REQUIRED.	MECHANICAL ELECTRICAL
5	4	HAF FANS	AMERICAN COOLAIR FH18B11, 18" HAF FANS, POWER SUPPLY REQUIRED.	MECHANICAL ELECTRICAL
6	1	SHADE MOTOR	WADSWORTH MODEL VC200 SHADE MOTOR MOUNTED IN GREENHOUSE TRUSSES. POWER SUPPLY REQUIRED.	MECHANICAL ELECTRICAL

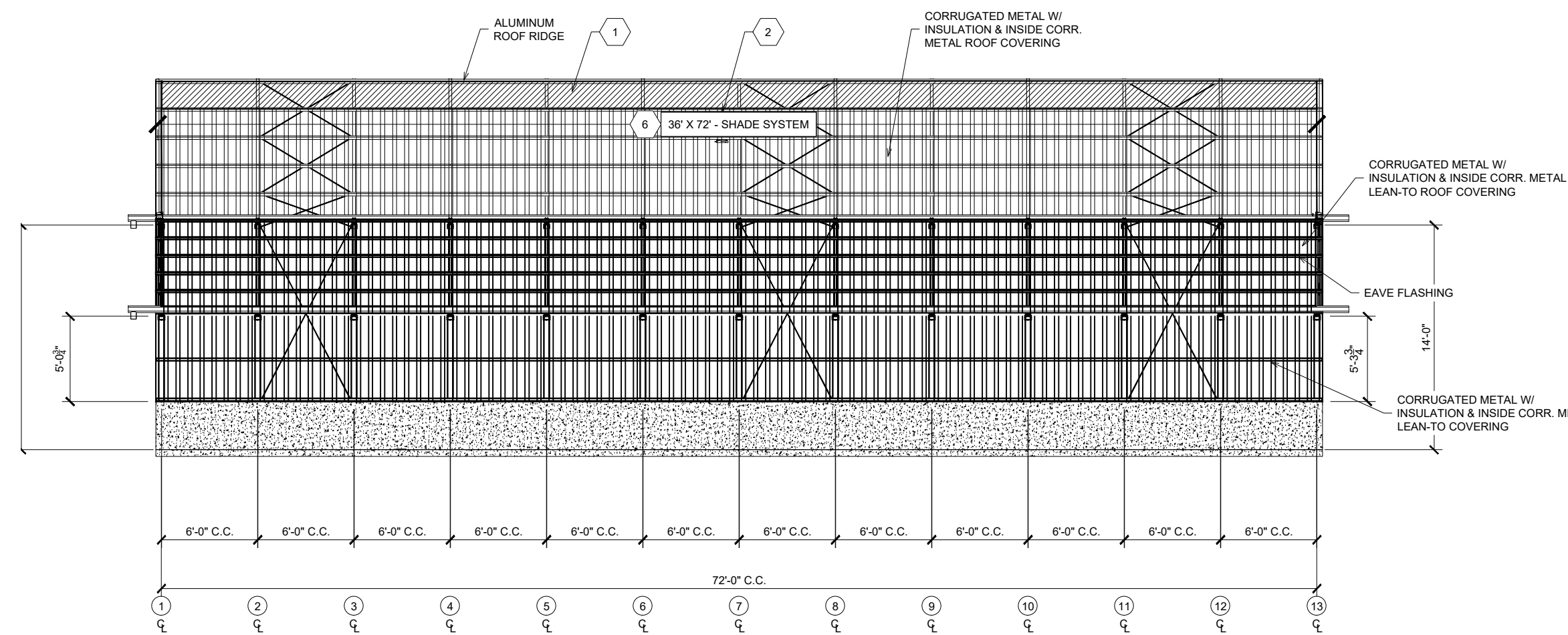
**NOTE:**  
OTHER EQUIPMENT NOT SHOWN, SEE MANUFACTURER'S  
SPECIFICATIONS AND/OR DRAWINGS.

WADSWORTH SEED CONTROLLER  
JOHNSON GENERATOR

DOOR SCHEDULE			
DOOR NO.	QTY	DOOR TYPE	DOOR DESCRIPTION
(D100)	5	PLYCO SERIES 95 SINGLE DOOR W/ NO WINDOW	6070 PLYCO SERIES 95 STEEL SINGLE DOOR <b>NO</b> WINDOW, (ROUGH OPENING - 44'-1/2" (WIDE X 85'-3/4" TALL), SEE DOOR SUBMITTALS FOR DOOR HARDWARE
(D200)	1	PLYCO SERIES 95 DOUBLE DOOR W/ WINDOW	6070 PLYCO SERIES 95 STEEL DOUBLE DOOR W/ WINDOWS, (ROUGH OPENING - 75'-7/8" (WIDE X 85'-3/4" TALL), SEE DOOR SUBMITTALS FOR DOOR HARDWARE



4 SIDEWALL ELEVATION @ COLUMN LINE 'C'  
SCALE: 1/8" = 1'-0"



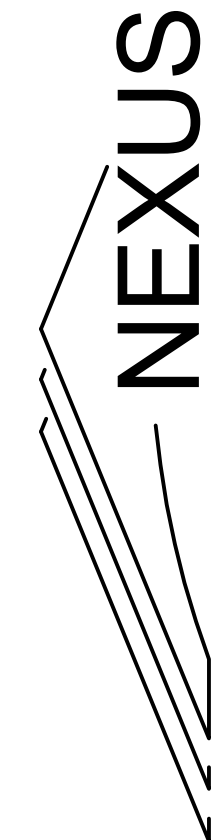
5 SIDEWALL ELEVATION @ COLUMN LINE 'A' W/ LEAN-TO  
SCALE: 1/8" = 1'-0"



8/19/2020

STRUCTURE ONLY

PROFESSIONAL ENGINEER SEAL



10983 LEROY DRIVE  
NORTHGLENN, COLORADO 80233  
303/457-9199 FAX 303/457-2801

HOME RANCH  
54880 COUNTY ROAD 129, CLARK, CO 80428  
(1) 36'-0" X 72'-0" VAIL STRUCTURE  
GABLE END, SECTION & SIDE ELEVATIONS  
GLAZING & EQUIPMENT

CREATION DATE:

07/22/20

DRAWN BY:

A. HATCHER

CHECKED BY:

S. ELLIOTT

SALESPERS

P. GOLDEN

REVISIONS:

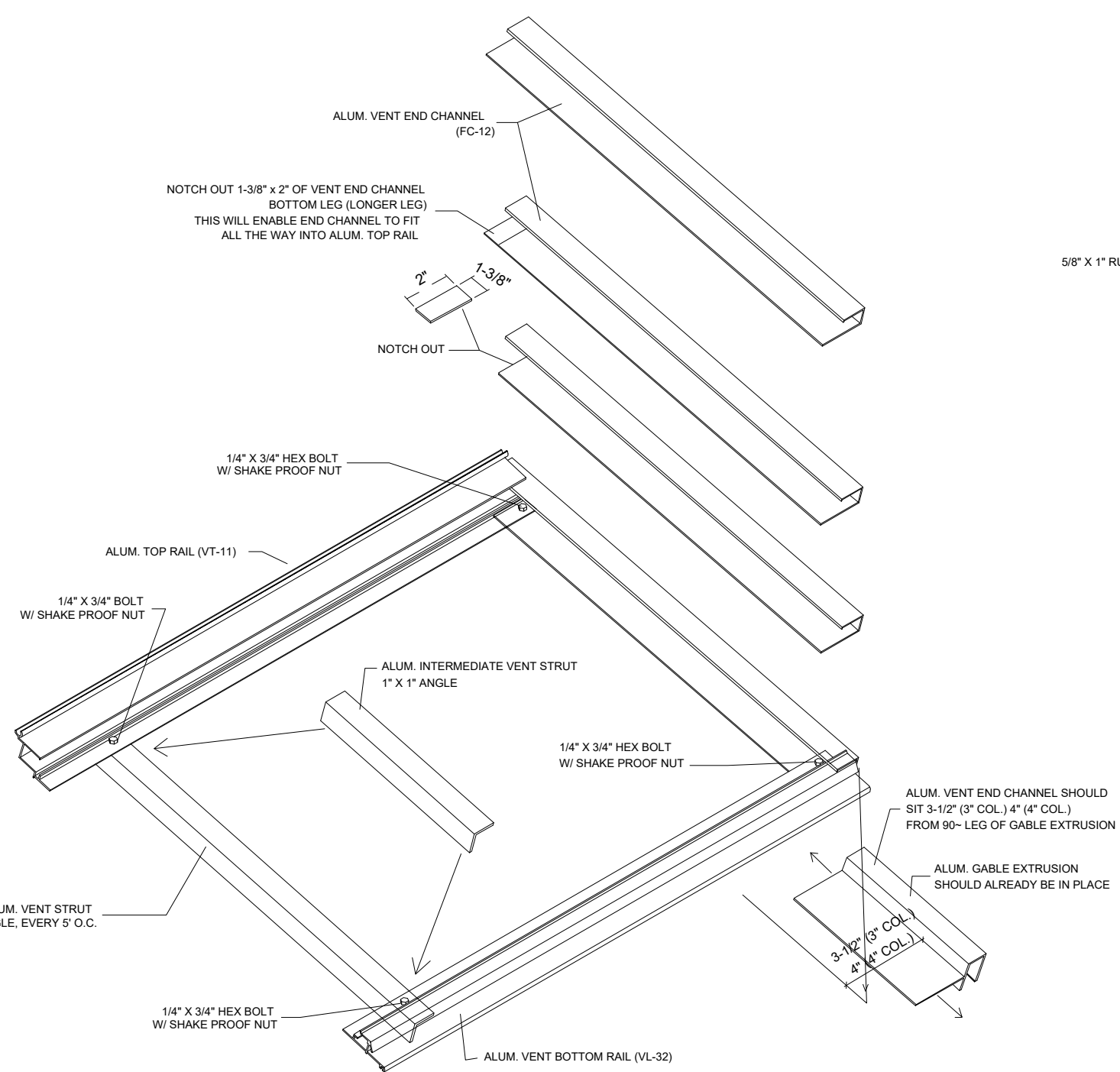
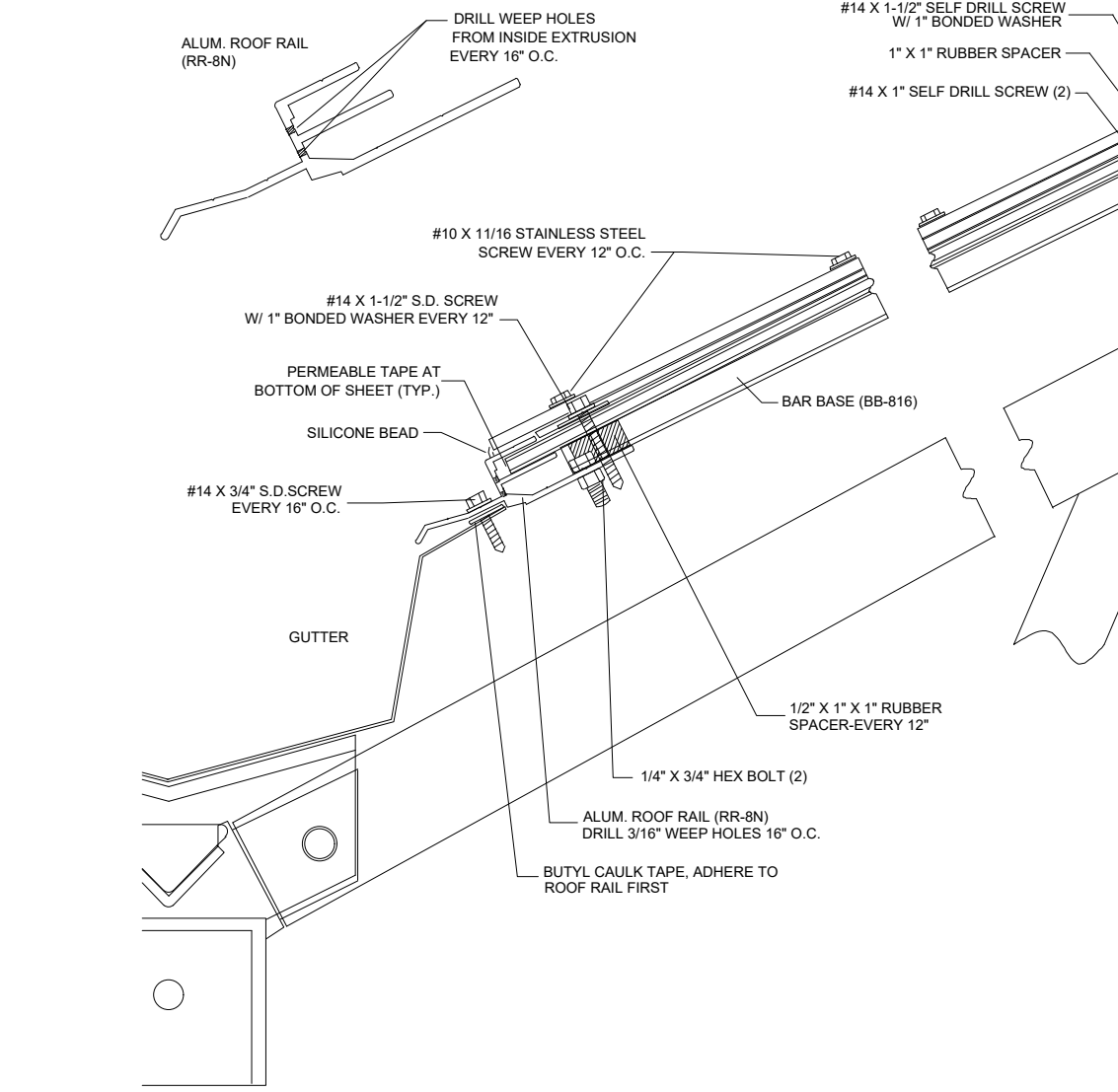
SHEET #: **GH-2.1**  
NEXUS JOB #: **N36493**



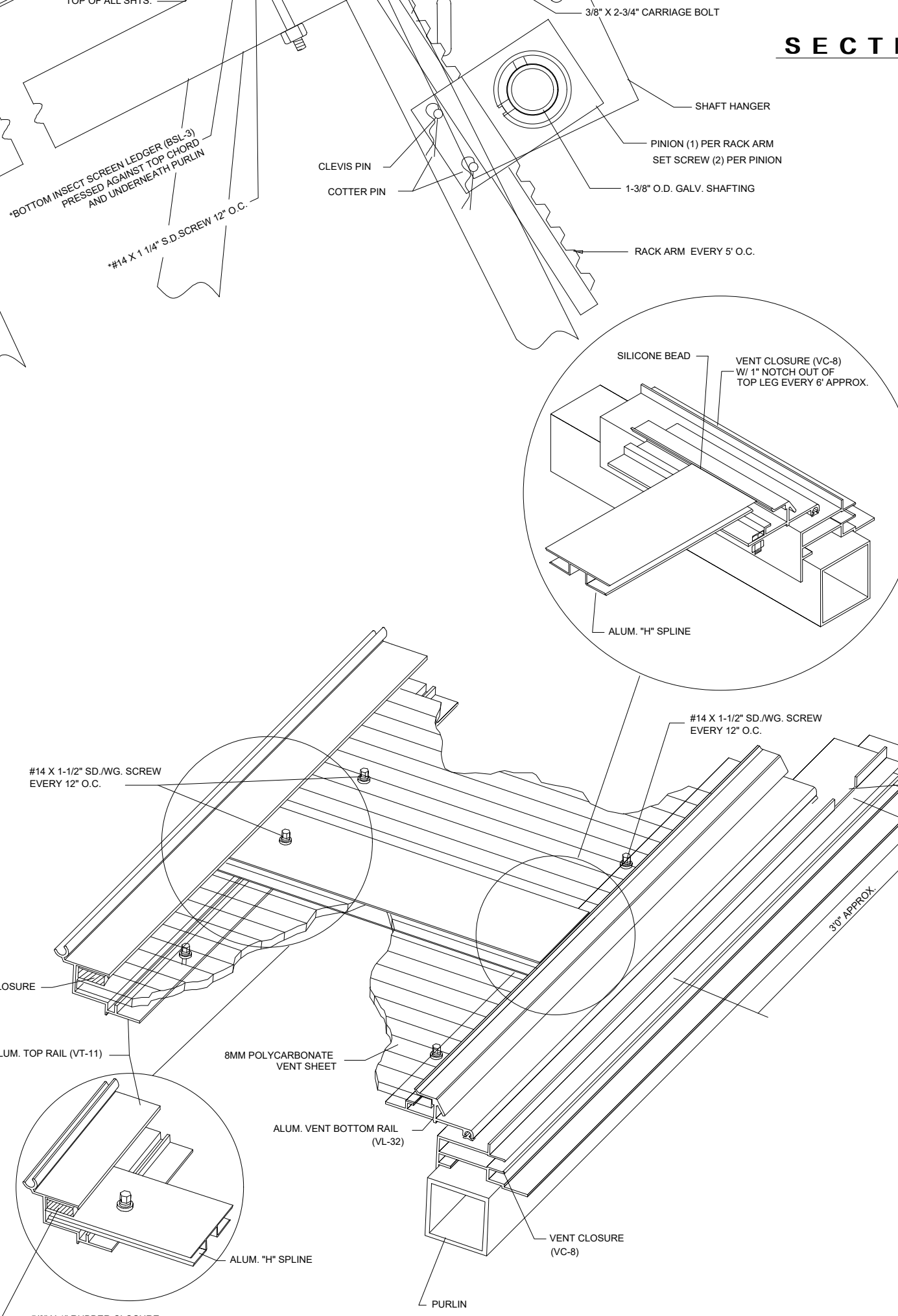
ROOF VENT INSTALLATION INSTRUCTIONS

1. ASSUMING THAT THE RIDGE HAS ALREADY BEEN ATTACHED TO THE RIDGE PURLIN.
2. ATTACH ALUM. ROOF VENT CLOSURE CHANNEL TO THE APPROPRIATE PURLIN WITH #14 X 1" SELF DRILL SCREWS EVERY 16" ON CENTER. THIS EXTRUSION WILL EVENTUALLY ACCEPT THE ROOF COVERING BELOW THE VENT AND ACT AS THE REST OR STOP FOR THE VENT WINDOW. (SEE NOTE #21 FOR VENT CONSTRUCTION OPTION.)
3. INSERT THE ALUM. TOP RAIL EXTRUSION INTO THE ALUM. RIDGE W/ SOCKET.
4. WHERE NECESSARY, SPlice THE TOP RAIL TOGETHER USING A VENT SPLICE STRUT (1" X 2" X 1") W/ 1/4" X 3/4" BOLTS W/ HEX NUTS & LOCK WASHER. CAULK SPLICES.
5. ATTACH AN ALUM. VENT END CHANNEL TO THE TOP RAIL WITH A 1/4" X 3/4" BOLT W/ HEX NUTS & LOCK WASHER. THESE HOLES WILL NEED TO BE FIELD DRILLED. THE 1" LEG OF THE VENT END CHANNEL WILL SEAT ON TOP OF THE TOP RAIL. THIS WILL ALLOW THE 2" LEG TO FIT NEATLY INTO THE COVER RECEIVING CHANNEL OF THE TOP RAIL.
6. ATTACH THE OPPOSITE END OF THE VENT END CHANNEL TO THE VENT BOTTOM RAIL. FIELD DRILL HOLES AND USE A 1/4" X 3/4" BOLT AND SHAKE PROOF NUT. SPLICE BOTTOM RAIL SIMILAR TO TOP RAIL.
7. ATTACH ALUM. VENT STRUTS TO BOTH THE VENT TOP RAIL AND BOTTOM RAIL WITH A 1/4" X 3/4" HEX BOLT W/ HEX NUTS & LOCK WASHER. THESE HOLES WILL ALSO NECESSITATE FIELD DRILLING. STRUTS ARE SPACED EVERY 5' O.C. VENT END CHANNELS ACT AS STRUTS AT THE START AND END OF THE VENT.
8. ALL VENT END CHANNELS AND STRUTS ARE SENT AT THE REQUIRED LENGTHS. NO FIELD CUTTING SHOULD BE NECESSARY.
9. REPEAT STEP 7 UNTIL ALL VENT STRUTS ARE INSTALLED.
10. REPEAT STEPS 5 AND 6 AT THE END OF THE VENT. YOU NOW HAVE THE SKELETAL STRUCTURE OF YOUR VENT.
11. REPEAT ENTIRE VENT INSTALLATION INSTRUCTIONS FOR ANY ADDITIONAL REMAINING VENTS.
12. SECURE VENT WINDOWS TO PROTECT AGAINST POSSIBLE WIND DAMAGE.
13. INSTALL RACK ARM LUGS AT EACH VENT END CHANNEL AND STRUT USING (2) 1/4" X 3/4" HEX BOLTS AND SHAKE PROOF NUTS. HOLES WILL BE FIELD DRILLED.
14. INSTALL VENT MOTOR APPROXIMATELY IN MIDDLE OF VENT AT TRUSS (SEE CONST BOOK).
15. INSTALL SHAFT HANGERS AT TRUSS LOCATION OUTLINED IN DRAWING. SHAFT HANGER HEIGHT SHOULD BE SET TO MATCH OUTPUT SHAFTS OF VENT MOTOR.
16. START SHAFT AT GABLE TRUSS AND WORK TOWARDS VENT MOTOR INSTALLING PINION & RACK ARMS AS NECESSARY. FEED VENT DRIVE SHAFT THROUGH THE SHAFT HANGERS. SPLICE SHAFTS TOGETHER WHERE NECESSARY USING THE PROVIDED SWEDEED PIPE (NUT AND BOLTS). BE SURE TO PLACE PINIONS ON THE DRIVE SHAFT AS SHAFT IS BEING INSTALLED AT A CORRESPONDING RACK ARM LUG.
17. FEED A RACK ARM THROUGH THE PINION (TEETH UP) TO THE RACK ARM LUG AND COUPLE WITH A PROVIDED CLEVIS PIN AND COTTER PIN.
18. WHEN ALL RACK ARMS ARE INSTALLED, THEY CAN BE ALIGNED FOR STRAIGHT TRAVEL AND A SET SCREW PLACED IN THE APPROPRIATE HOLES AND TIGHTENED DOWN TO THE DRIVE SHAFT.
19. IF VENT IS MOTORIZED BE SURE LIMIT SWITCHES FOR VENT PROPORTIONING ARE INSTALLED, AND A TARGET FOR THE CLOSE LIMIT BUTTON IS IN PLACE.
20. BE SURE TO REMOVE PREVIOUSLY INSTRUCTED SECURING MATERIAL (STEP 12) BEFORE INSTALLING VENT COVERING.
21. AT THIS TIME IT IS A GOOD IDEA TO THOROUGHLY LUBRICATE THE VENT MECHANISM AS OUTLINED IN THE DETAIL INCLUDED IN THE CONSTRUCTION BOOKLET.
22. WITH SOME PLANNING, THE FIELD DRILLED HOLES CAN BE DONE ON THE GROUND TO HELP WITH THE INSTALLATION. CARRYING THIS ONE STEP FURTHER, THE VENT CAN BE BUILT IN 10' SECTIONS ON THE GROUND AND PLACED INTO THE SOCKET OF RIDGE. THE SPLICE STRUTS WOULD THEN BE LEFT TO CONNECT THE SECTIONS.

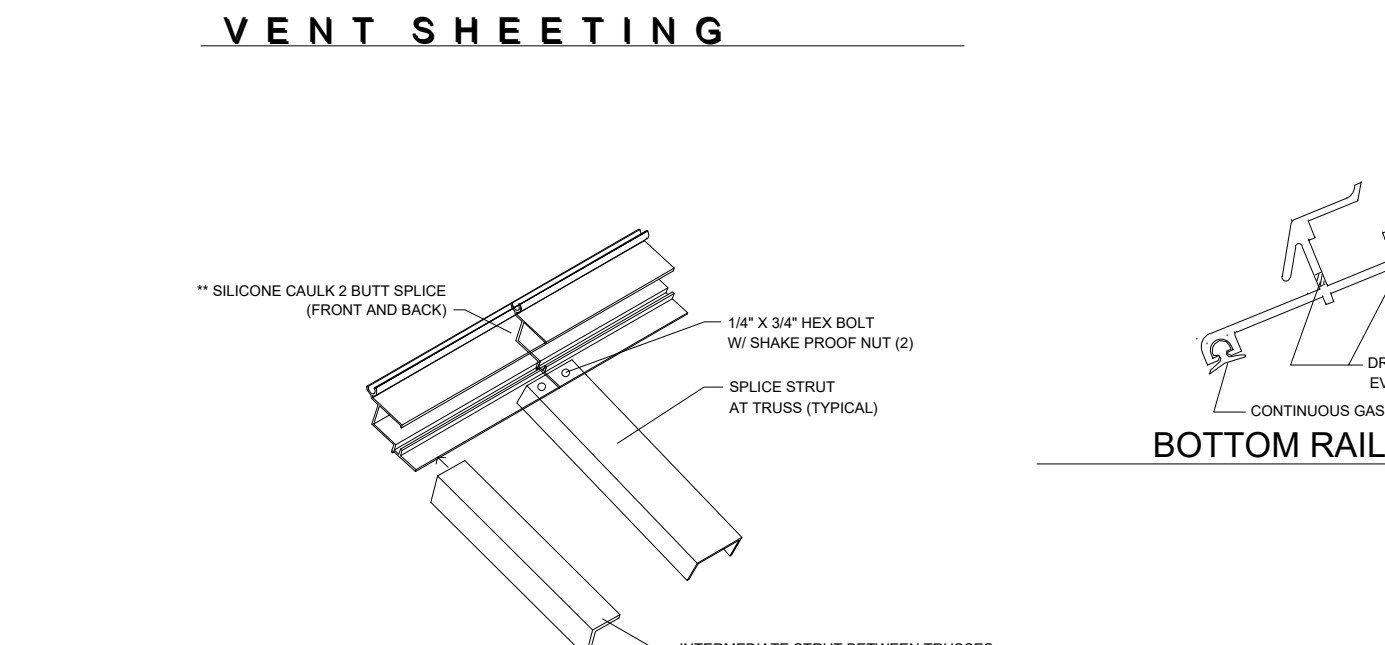
SEE SCREW SPACING TABLE (8MM PC. ROOF SHT.)



VENT FRAME DETAIL



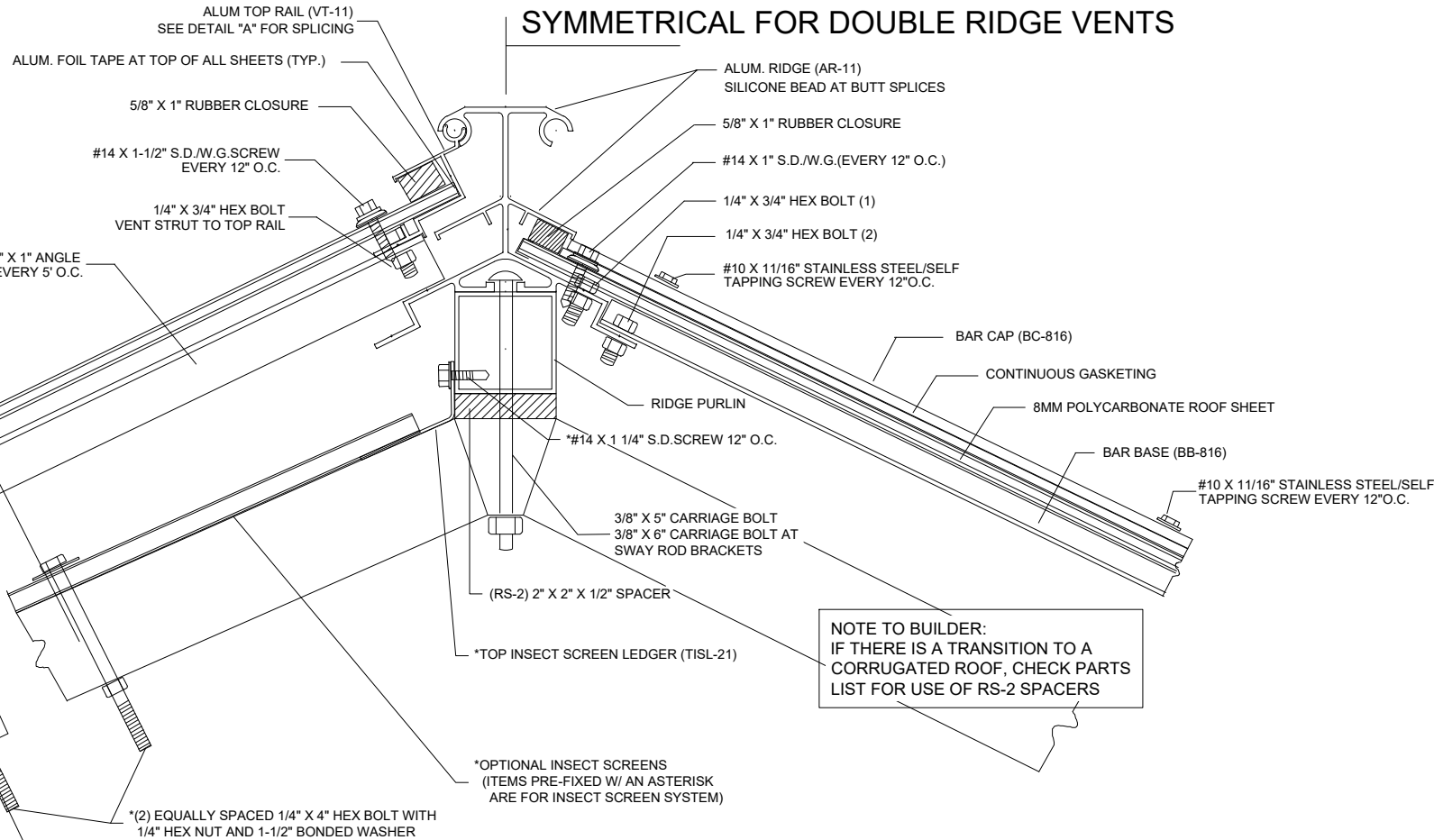
SECTION THRU ROOF



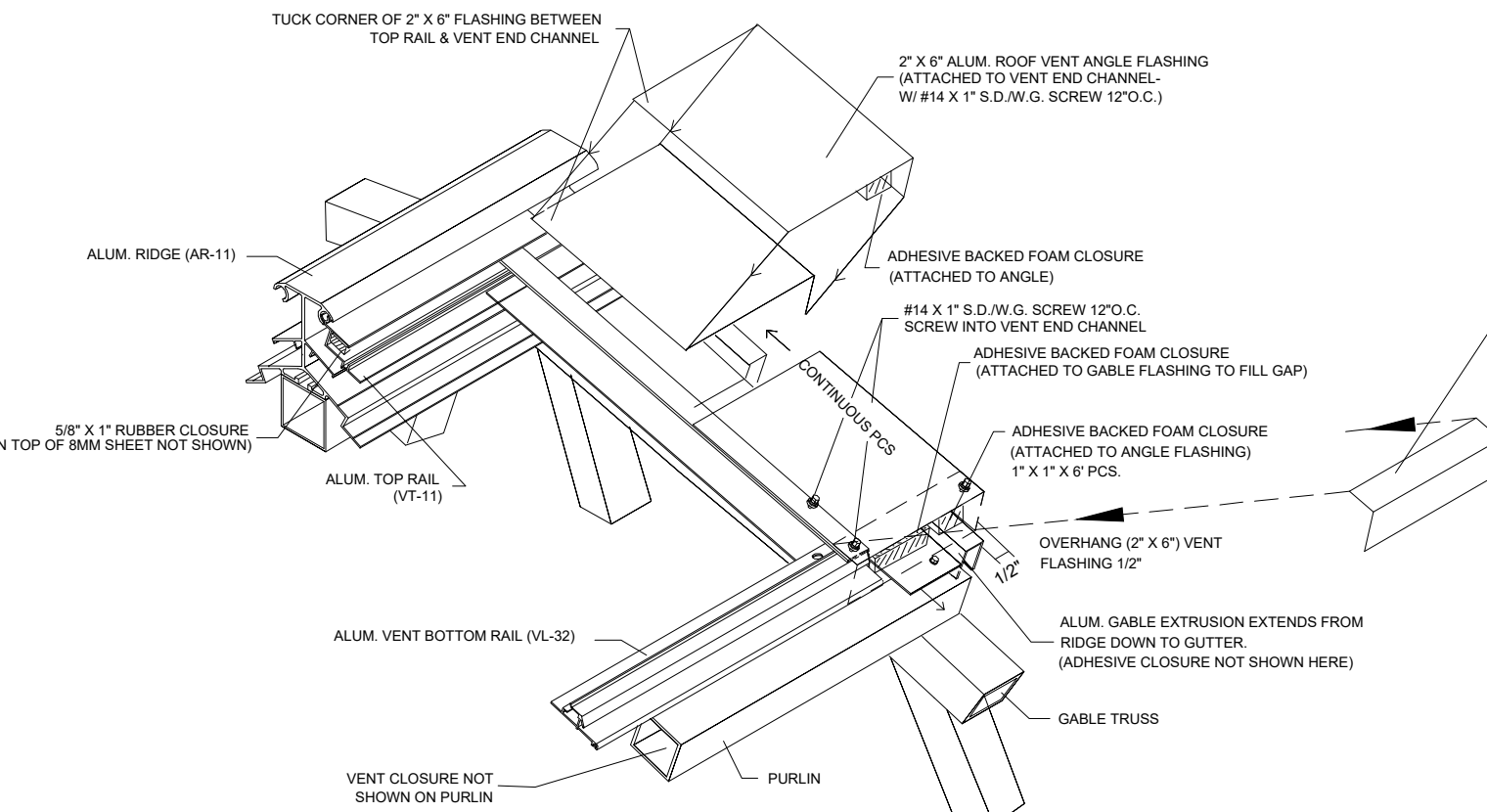
VENT SHEETING

DETAIL "A" TOP RAIL SPLICE

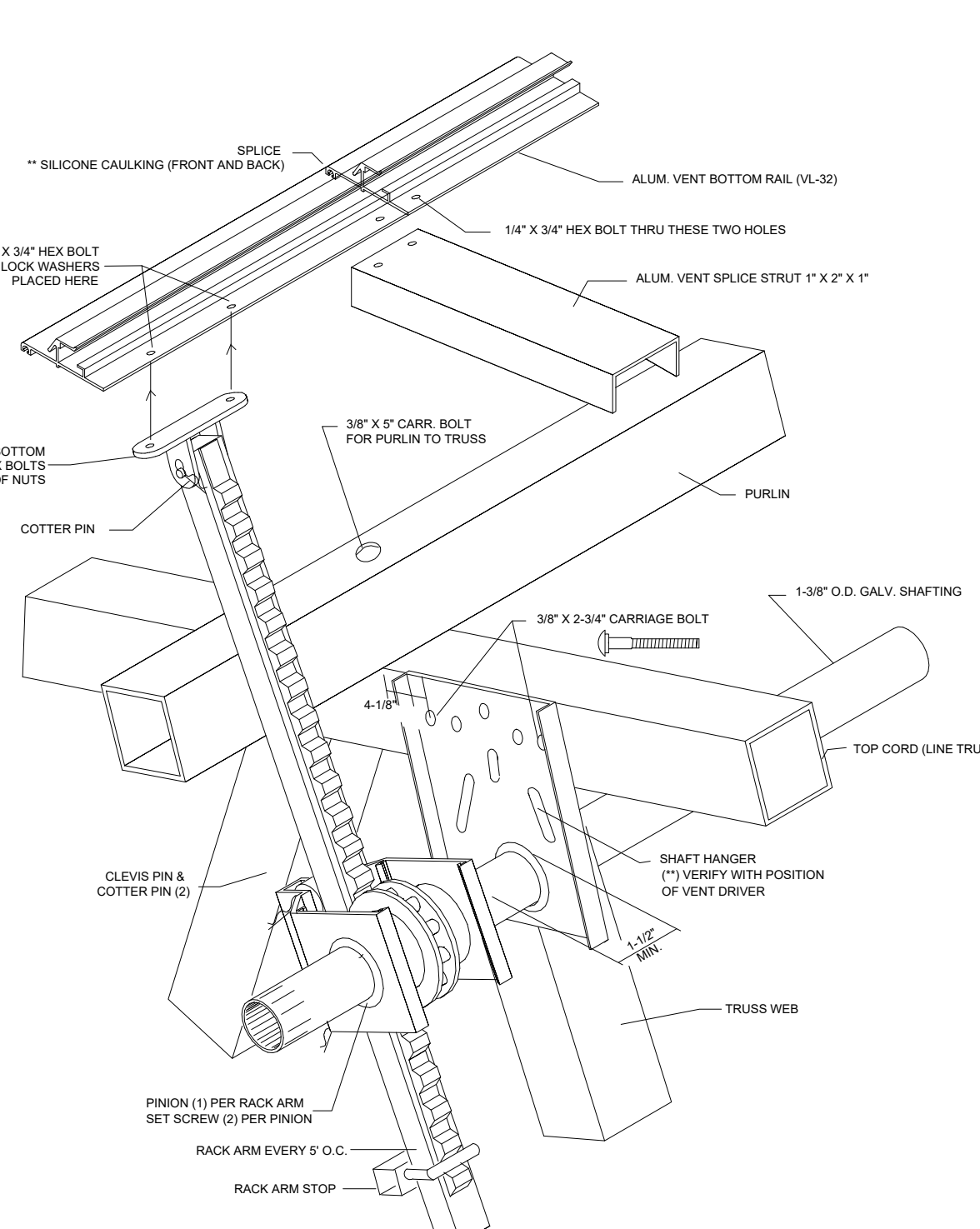
SYMMETRICAL FOR DOUBLE RIDGE VENTS



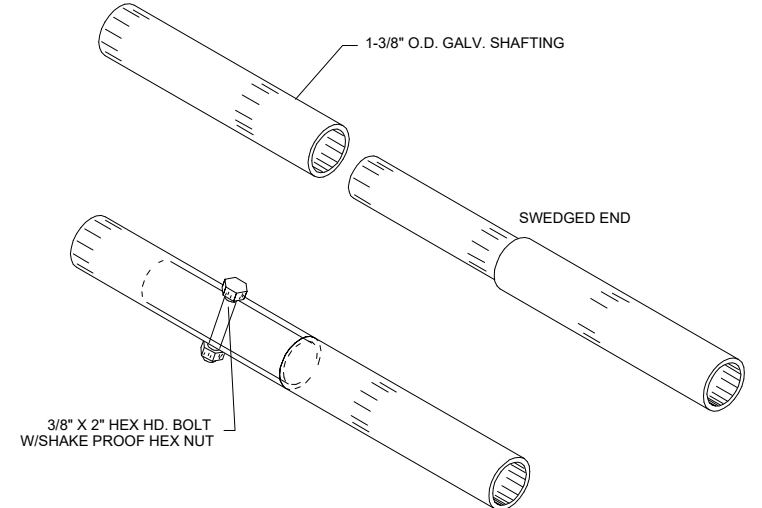
NOTE TO BUILDER:  
IF THERE IS A TRANSITION TO A CORRUGATED ROOF, CHECK PARTS LIST FOR USE OF RS-2 SPACERS



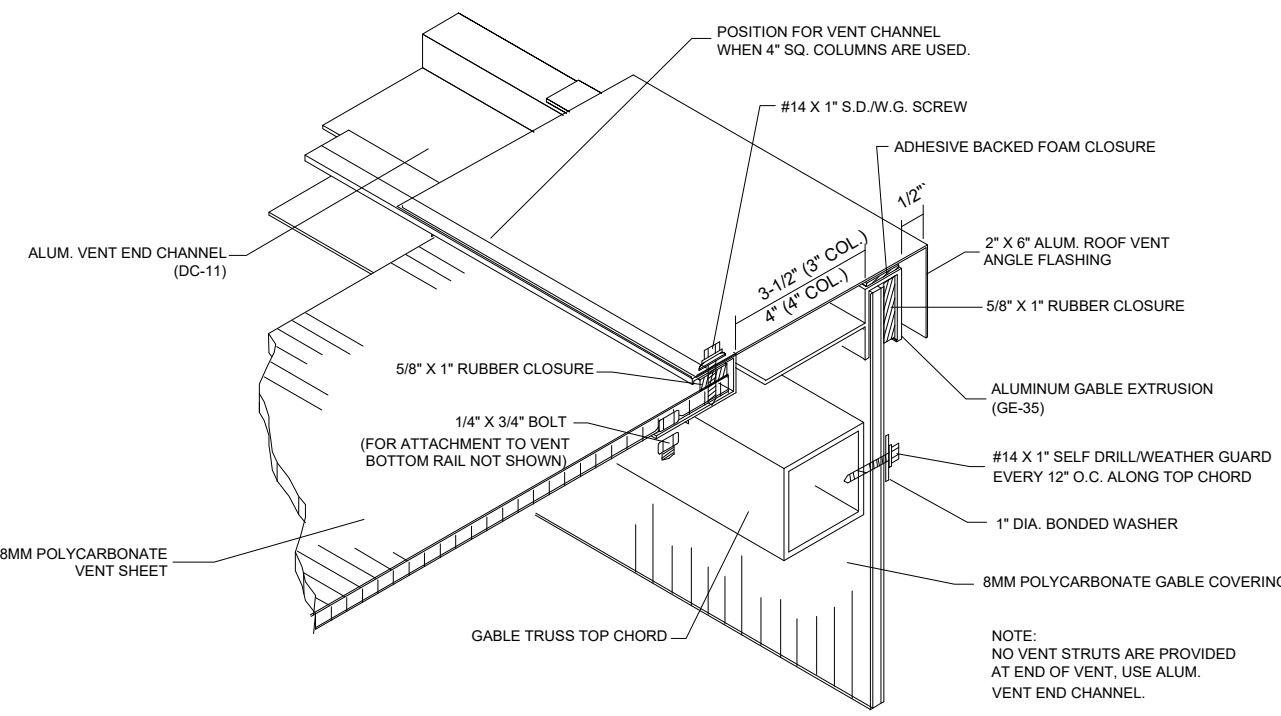
VENT FLASHING



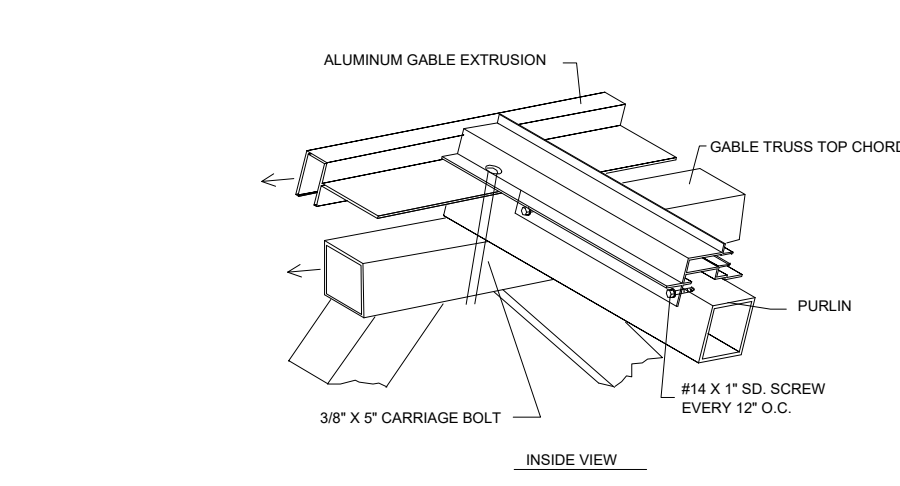
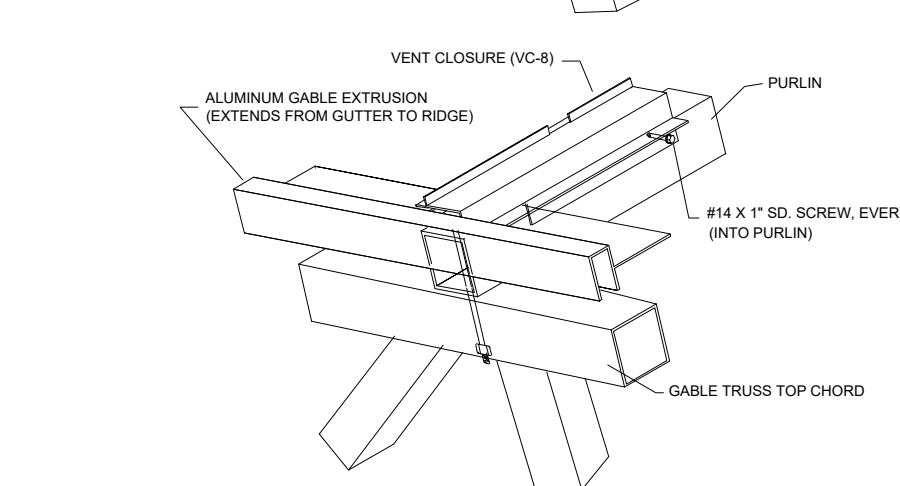
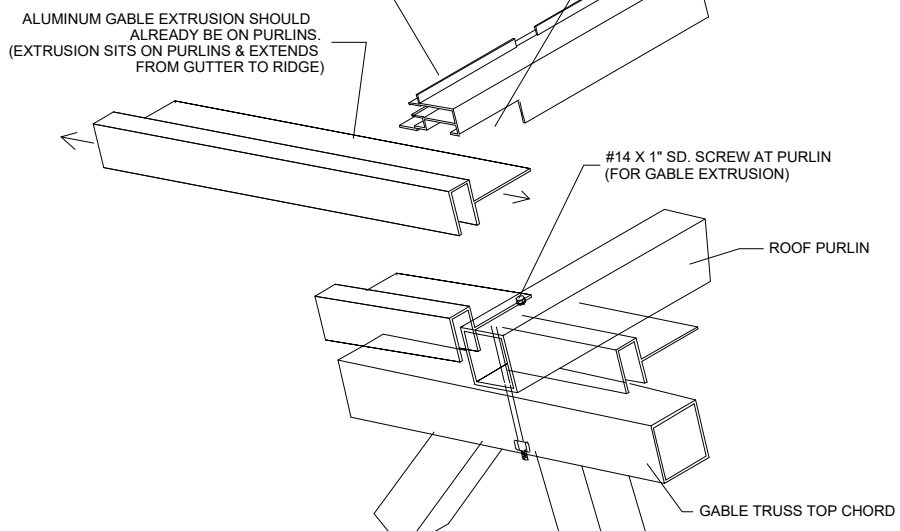
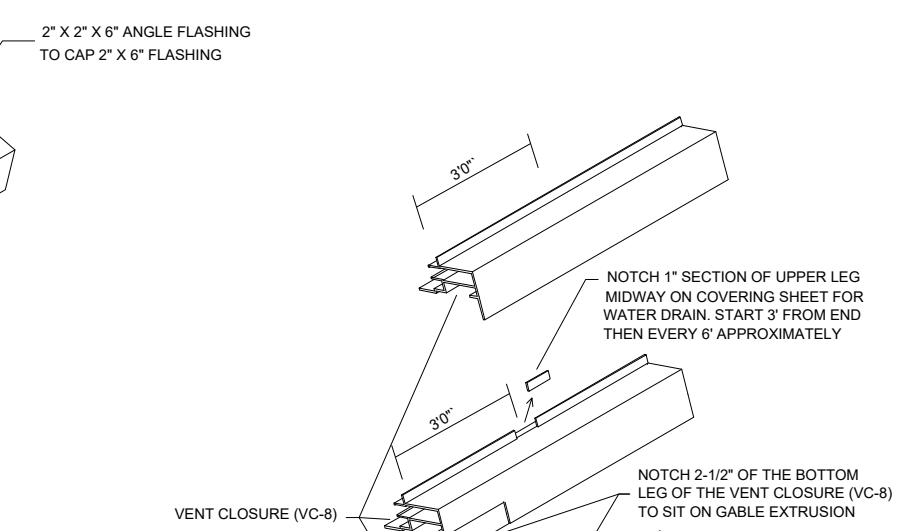
RACK ARM PLACEMENT



SHAFT SPLICING



SECTION 2



VENT CLOSURE AT GABLE



PROFESSIONAL ENGINEER SEAL

**NEXUS**  
10983 LEROY DRIVE  
NORTHGLENN, COLORADO 80233  
303/457-9199 FAX 303/457-2801

**HOME RANCH**  
**54880 COUNTY ROAD 129, CLARK, CO 80428**  
**(1) 36'-0" X 72'-0" VAIL STRUCTURE**  
**8MM POLYCARBONATE**  
**ROOF VENT DETAILS**

CREATION DATE:

07/22/20

DRAWN BY:

A. HATCHER

CHECKED BY:

S. ELLIOTT

SALESPERSON:

P. GOLDEN

REVISIONS:

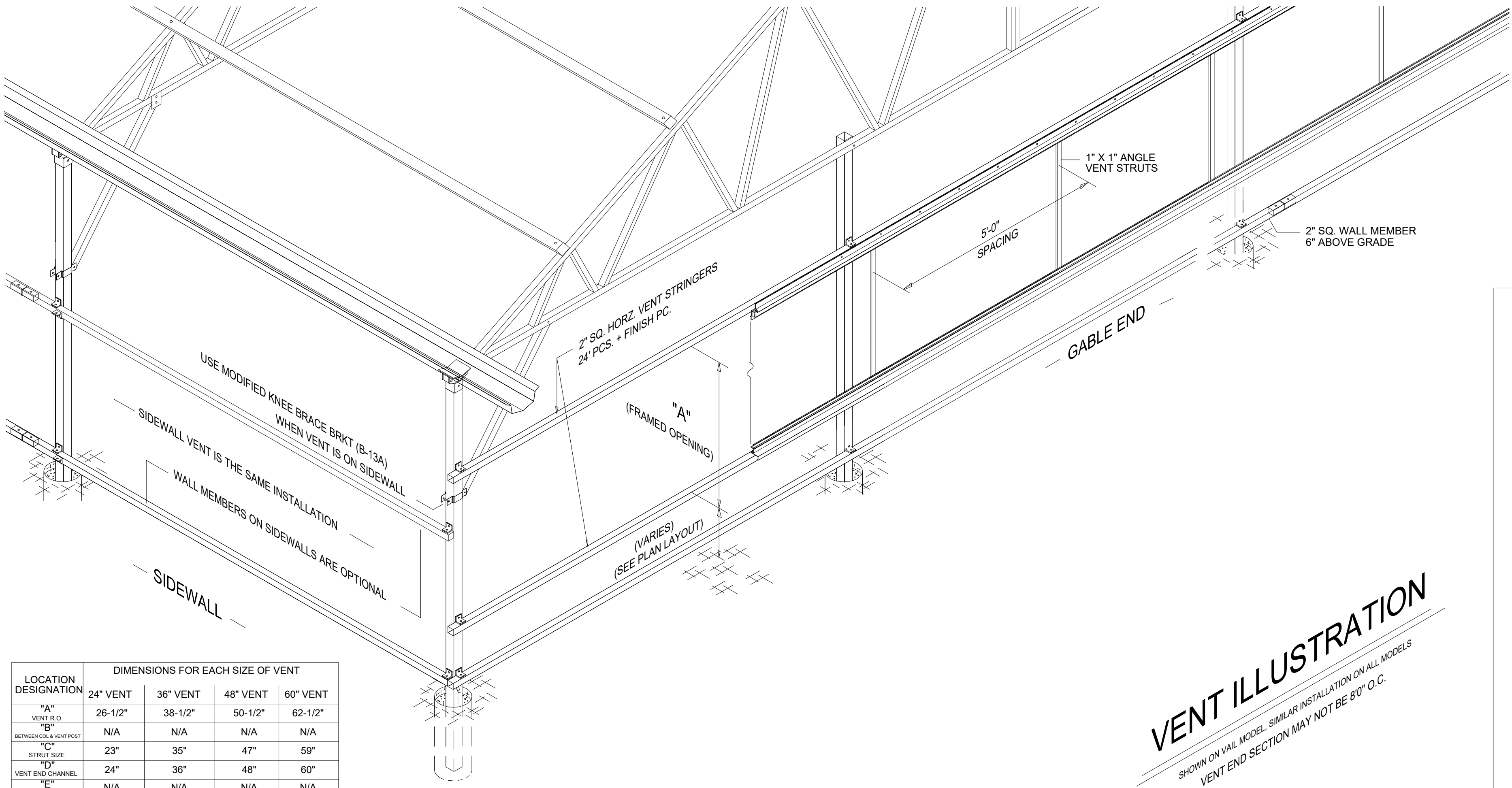
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NEXUS JOB #:  
**N36493**

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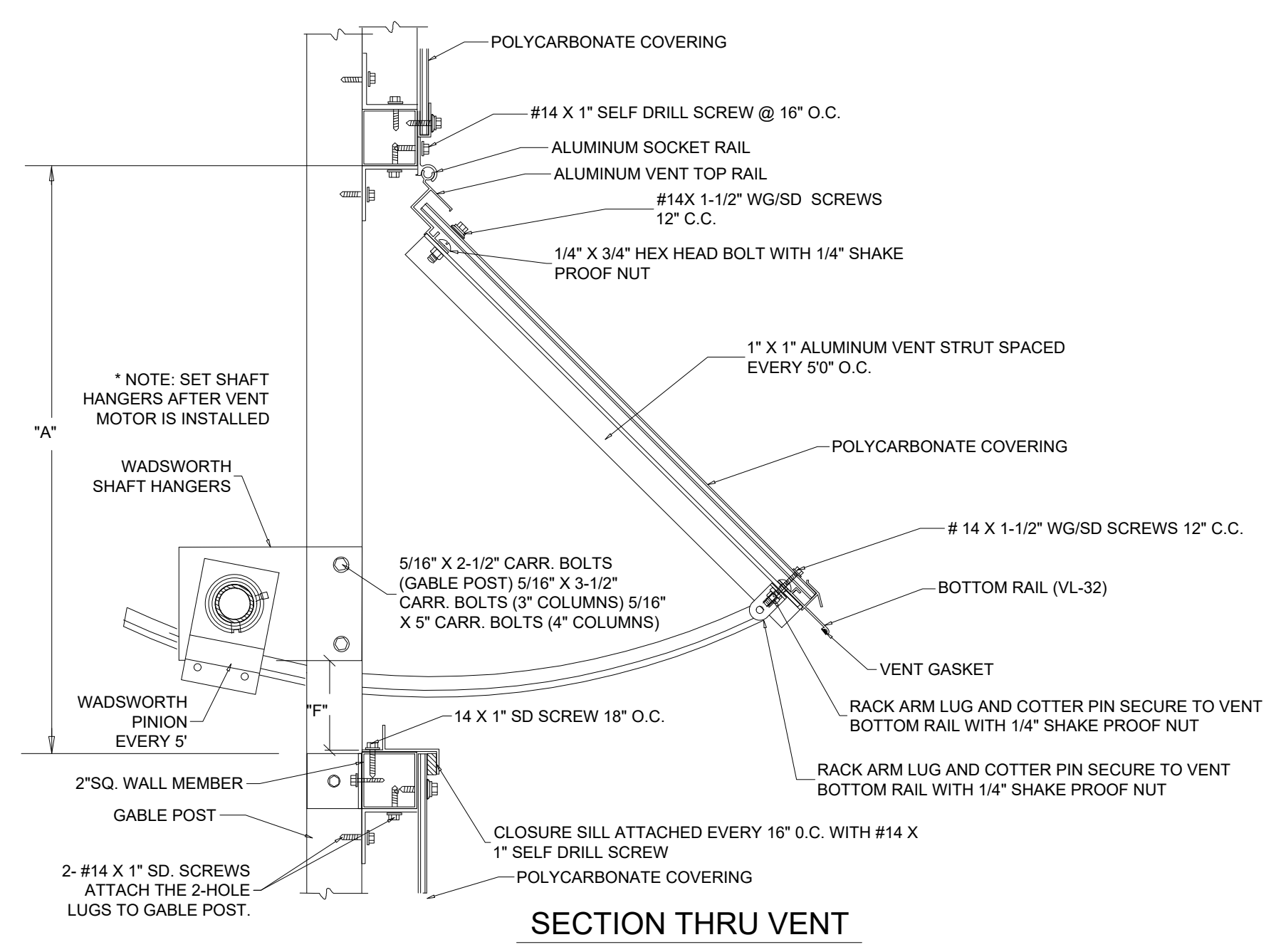
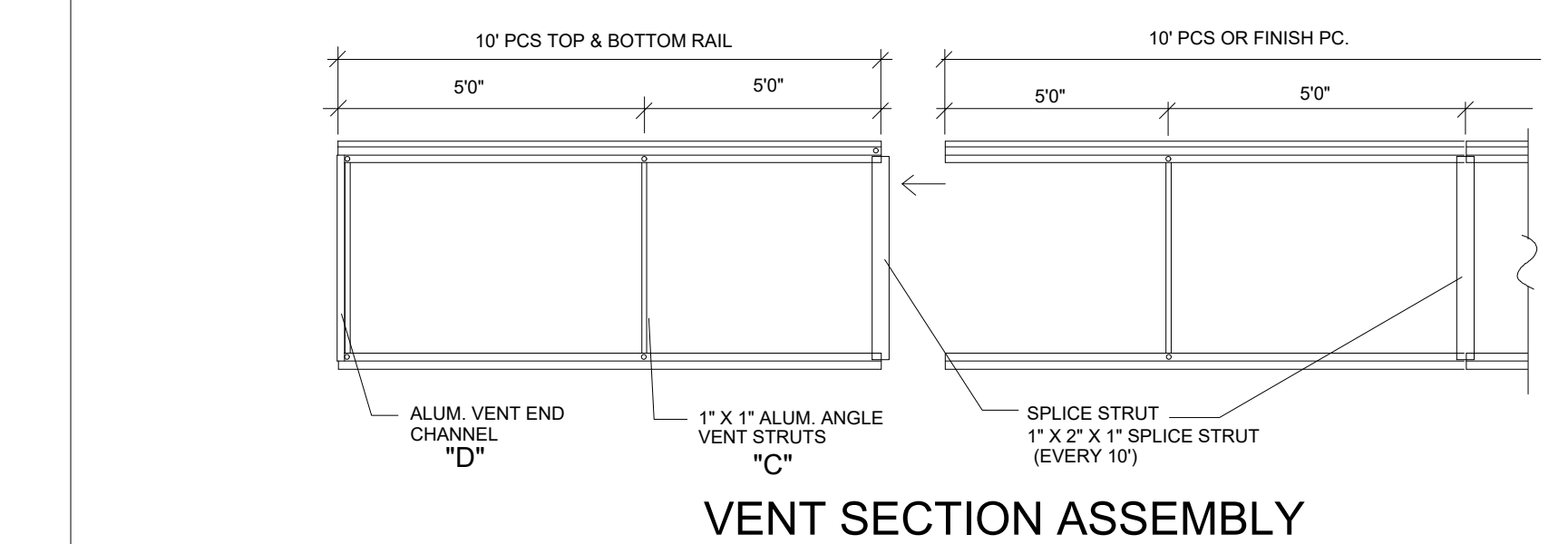
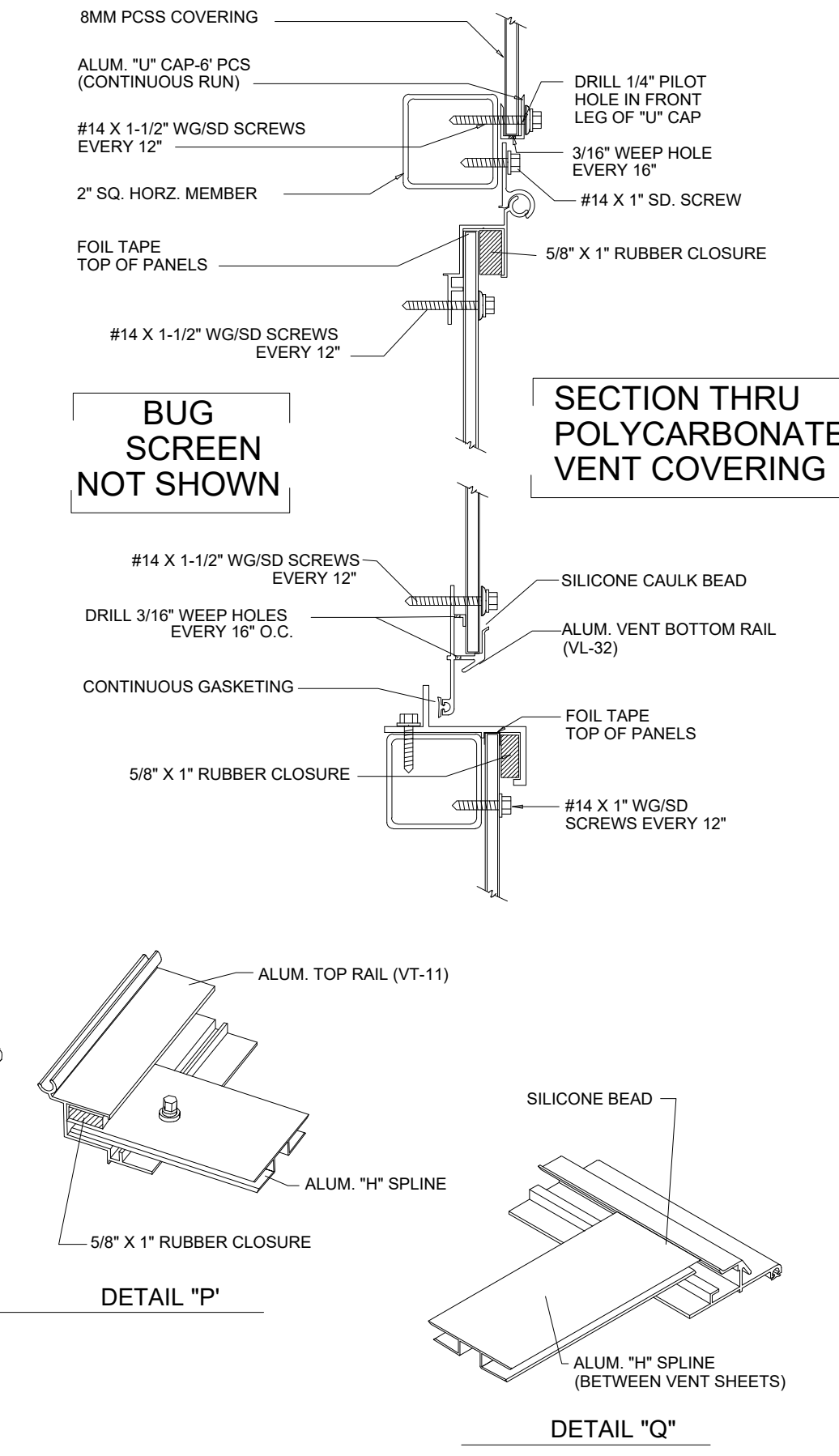
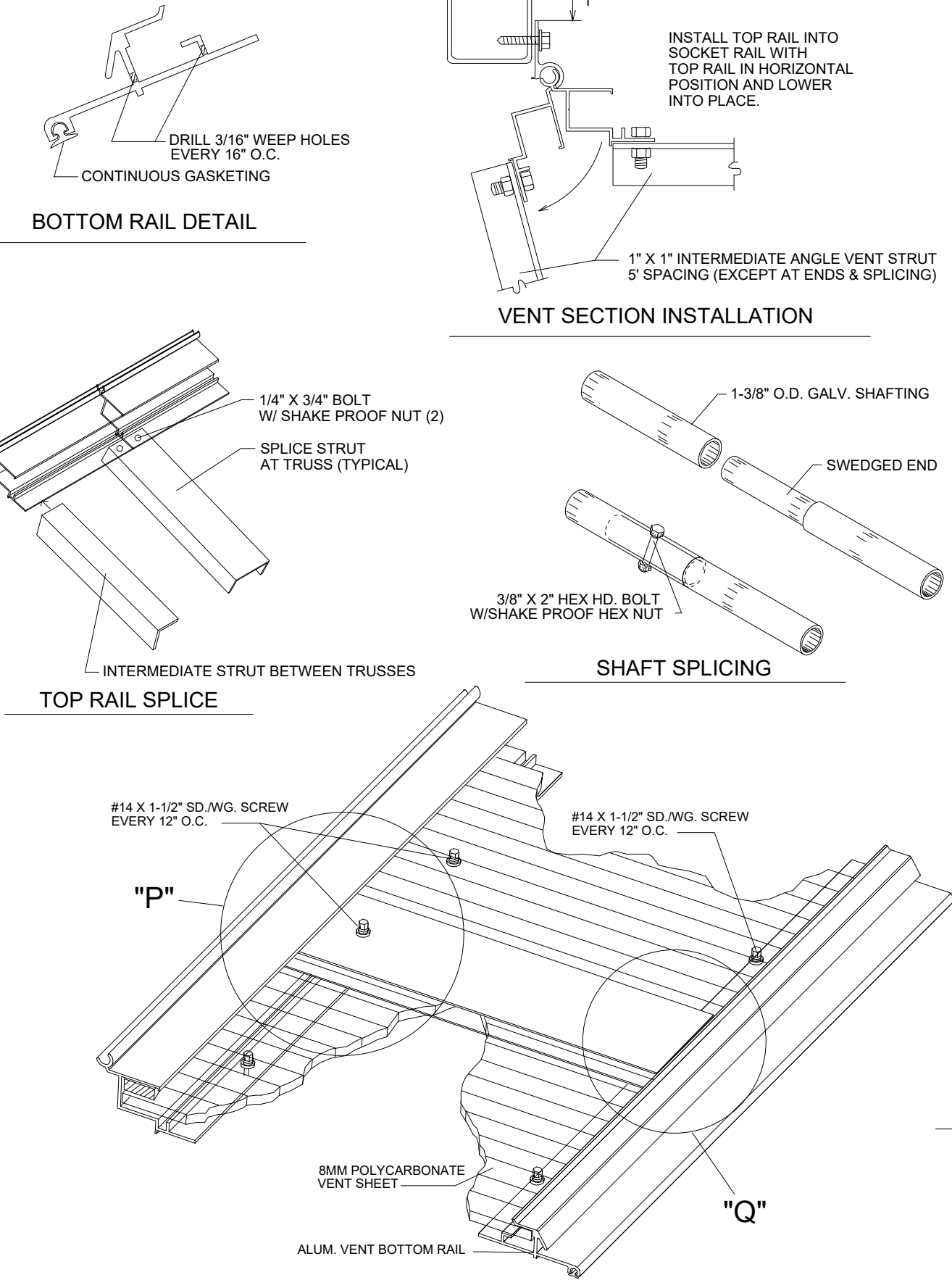
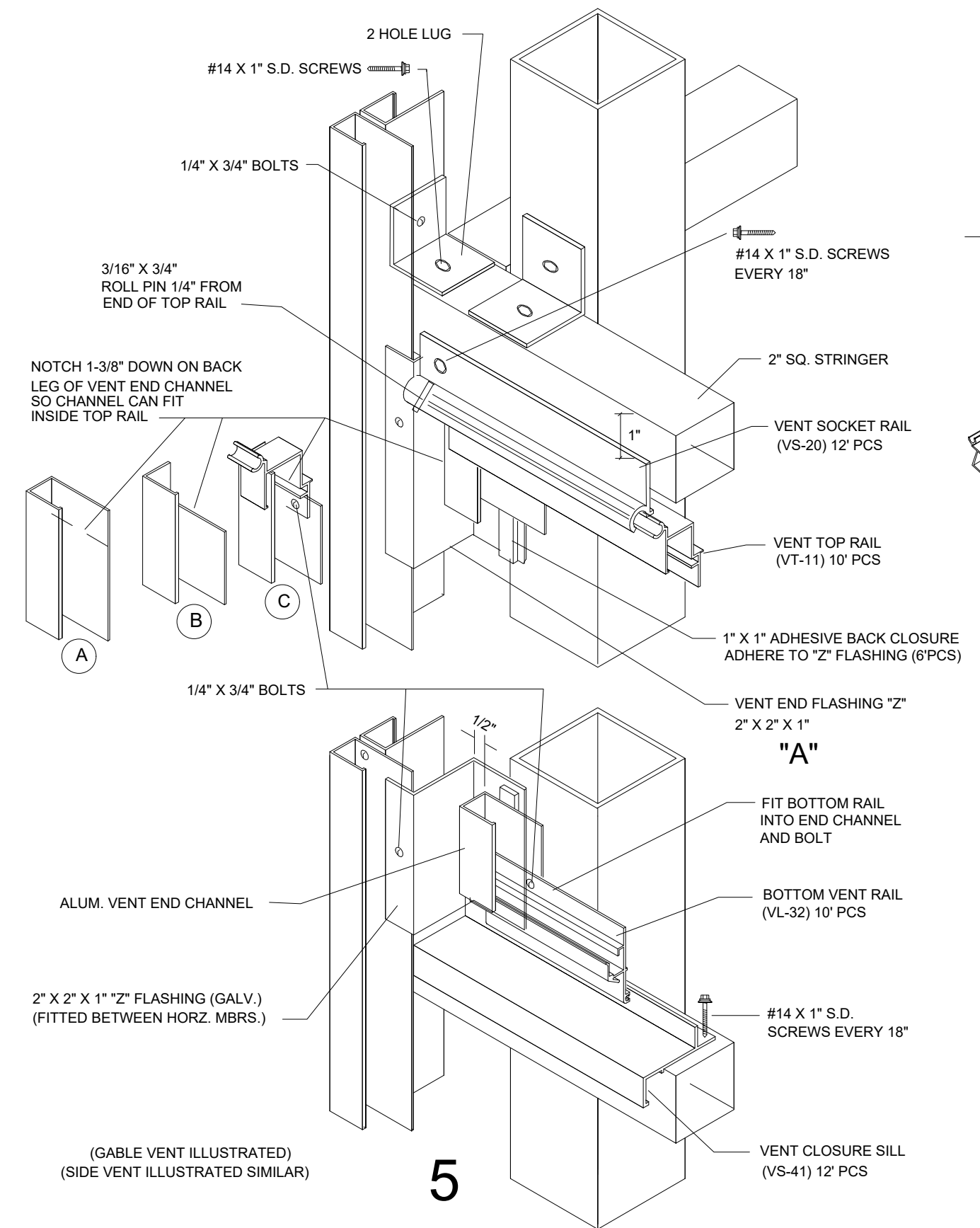
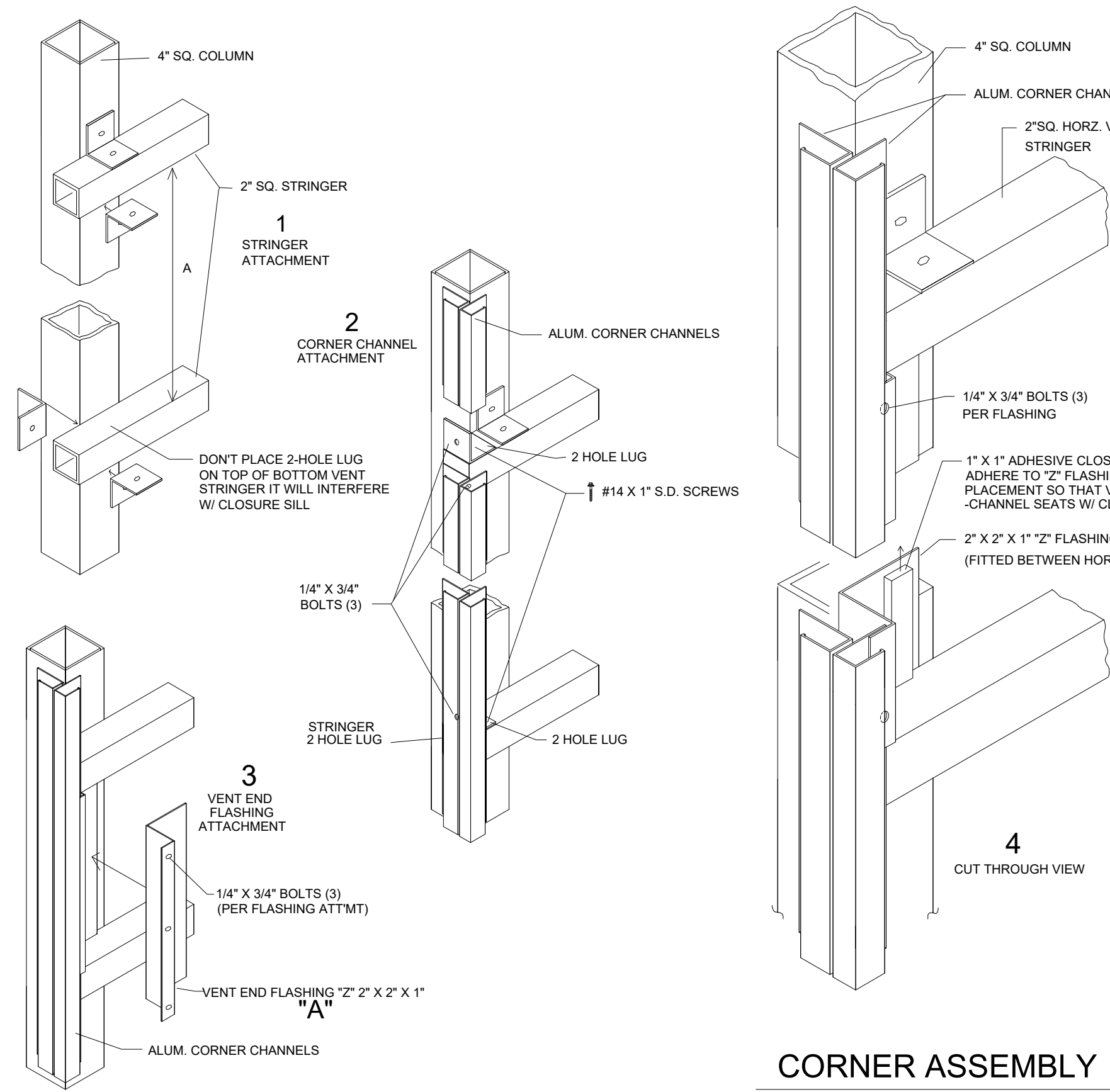
8/19/2020



S:\Comm-Inst-Inst\N36403 Home Ranch\Engineering\Drawings ARCH D 36 X 24 N36403 Home Ranch



LOCATION DESIGNATION	DIMENSIONS FOR EACH SIZE OF VENT			
	24" VENT	36" VENT	48" VENT	60" VENT
"A" VENT R.O.	26-1/2"	38-1/2"	50-1/2"	62-1/2"
BETWEEN COL & VENT POST "B"	N/A	N/A	N/A	N/A
STRUT SIZE	23"	35"	47"	59"
VENT END CHANNEL "D"	24"	36"	48"	60"
1-1/2" SQ. HORIZ. SILL TO SHAFT "E"	N/A	N/A	N/A	N/A
"F"	3"	3"	3"	3"
RACK ARM LENGTH "G"	34"	42"	53"	64"



8/19/2020

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**HOME RANCH**  
**54880 COUNTY ROAD 129, CLARK, CO 80428**  
**(1) 36'-0" X 72'-0" VAIL STRUCTURE**  
**8MM POLYCARBONATE**  
**SIDE VENT DETAILS**

CREATION DATE:  
07/22/20  
DRAWN BY:  
A. HATCHER  
CHECKED BY:  
S. ELLIOTT  
SALESPERSON:  
P. GOLDEN

REVISIONS:

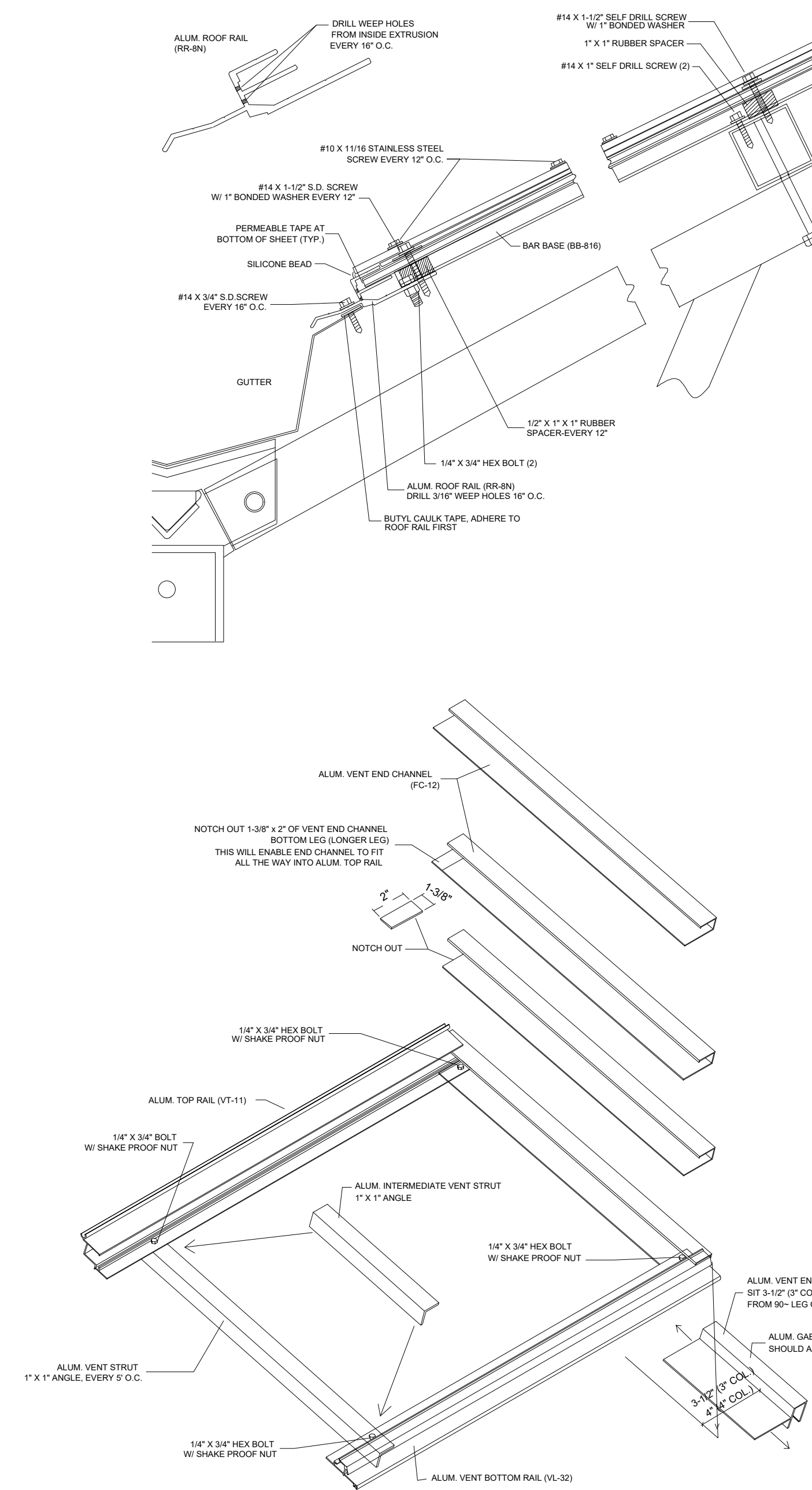
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NEXUS JOB #:  
**GH-4.0**  
**N36493**



## ROOF VENT INSTALLATION INSTRUCTIONS

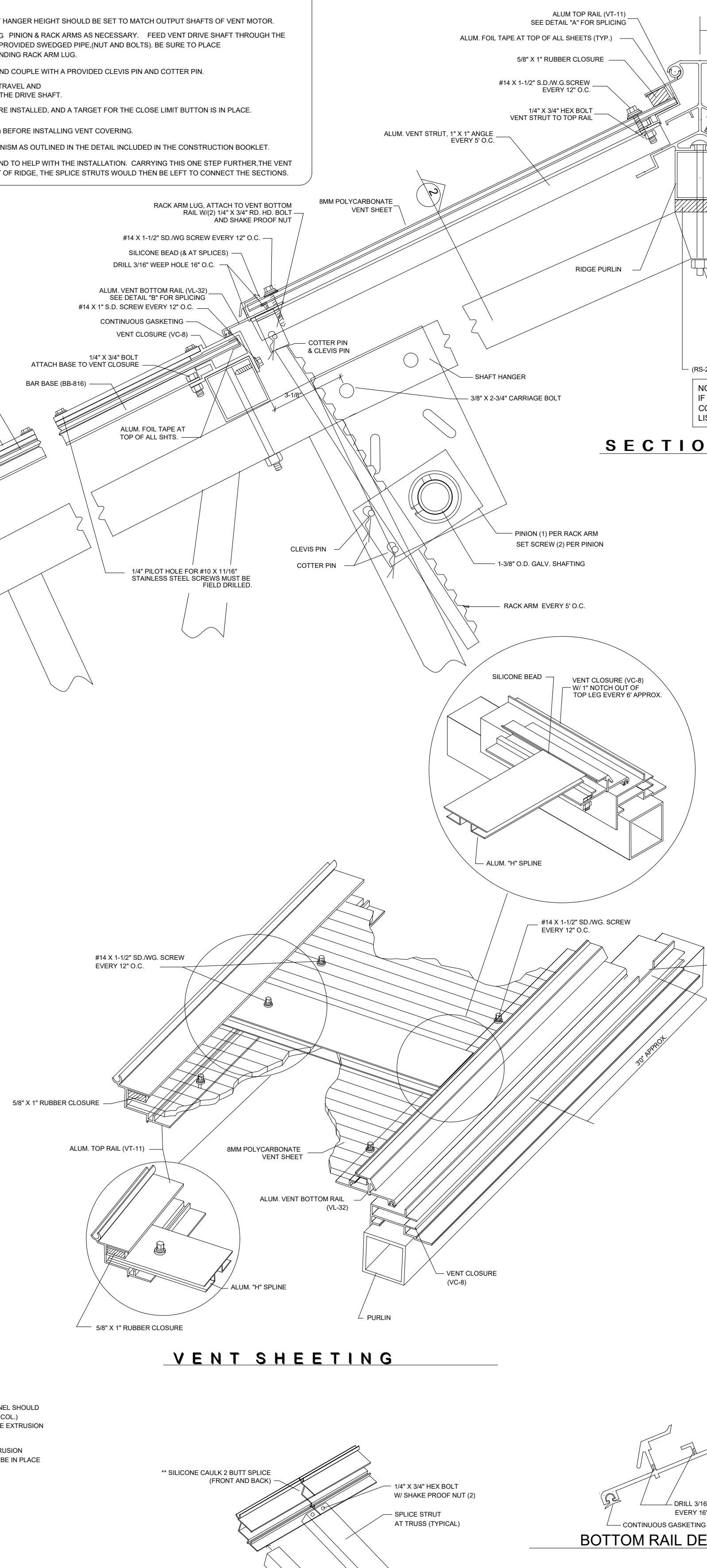
- ATTACH THE ROOF TO THE ROOF PURLIN.
- ATTACH ALUM. RIGID VENT CLOSURE CHANNEL TO THE APPROPRIATE PURLIN WITH #14 X 3/4" HEX BOLTS. THIS EXTENSION WILL EVENTUALLY ACCEPT THE ROOF COVERING BELOW THE VENT AND ACT AS THE REST OR STOP FOR THE VENT WINDOW. (SEE NOTE #2 FOR VENT CONSTRUCTION OPTION).
- INSERT THE ALUM. TOP RAIL EXTENSION INTO THE ALUM. RIDGE WISCKET.
- WHERE NECESSARY, SPlice THE TOP RAIL TOGETHER USING A VENT SPIRCE STRUT (1" X 2" X 1/8") 1/4" X 3/4" BOLTS W/ HEX NUTS & LOCK WASHER. CAULK SPICES.
- ATTACH AN ALUM. VENT END CHANNEL TO THE TOP RAIL WITH A 1/4" X 3/4" BOLT W/ HEX NUTS & LOCK WASHER. THESE HOLES WILL NEED TO BE PRE-DRILLED. THE "L" END OF THE VENT END CHANNEL WILL SEAT ON TOP OF THE TOP RAIL. THIS WILL ALLOW THE "L" END TO FIT NEATLY INTO THE COVER RECEIVING CHANNEL OF THE TOP RAIL.
- ATTACH THE OPPOSITE END OF THE VENT END CHANNEL TO THE VENT BOTTOM RAIL. FIELD DRILL HOLES AND 3/4" BOLT AND ANSHORE PROOF NUT. SPICE BOTTOM RAIL SIMILAR TO TOP RAIL.
- ATTACH ALUM. VENT STRUTS TO BOTH THE VENT TOP RAIL AND BOTTOM RAIL WITH A 1/4" X 3/4" HEX BOLT. W/ HEX NUTS & LOCK WASHER. THESE HOLES WILL ALSO NECESSITATE FIELD DRILLING. STRUTS ARE SPACED EVERY 5'-0" O.C. VENT END CHANNELS CAULK AT THE START AND END OF THE VENT.
- ALL VENT END CHANNELS AND STRUTS ARE SENT AT THE REQUIRED LENGTHS. NO FIELD CUTTING SHOULD BE NECESSARY.
- REPEAT STEP 7 UNTIL ALL VENT STRUTS ARE INSTALLED.
- REPEAT STEPS 8 & 9 AT THE END OF THE VENT. YOU NOW HAVE THE SKELETAL STRUCTURE OF YOUR VENT.
- REPEAT ENTIRE VENT INSTALLATION INSTRUCTIONS FOR ANY ADDITIONAL REMAINING VENTS.
- SECURE VENT WINDOWS TO PROTECT AGAINST POSSIBLE WIND DAMAGE.
- INSTALL RACK ARM LUGS AT EACH VENT END CHANNEL AND STRUT USING (2) 1/4" X 3/4" HEX BOLTS AND SHAKE PROOF NUTS. HOLES WILL BE FIELD DRILLED.
- INSTALL VENT MOTOR APPROXIMATELY IN MIDDLE OF VENT AT TRUSS (SEE CONST BOOK).
- INSTALL SHAFt HANGERS AT TRUSS LOCATION OUTLINED IN DRAWING. SHAFt HANGER HEIGHT SHOULD BE SET TO MATCH OUTPO SHAFTS OF VENT MOTOR.
- START SHAFt AT GABLE TRUSS AND WORK TOWARDS VENT MOTOR INSTALLING. PINNONS ON THE DRIVE SHAFt AS SHAFt IS BEING INSTALLED AT A CORRESPONDING RACK ARM LUG.
- FEED A RACK ARM THROUGH THE PINNIN (TEETH) UP TO THE RACK ARM LUG AND COUPLE WITH A PROVIDED CLEVIS PIN. BE SURE TO PLACE PINNONS ON THE DRIVE SHAFt AS SHAFt IS BEING INSTALLED AT A CORRESPONDING RACK ARM LUG.
- WHEN ALL RACK ARMS ARE INSTALLED, THEY CAN BE ALIGNED FOR STRAIGHT TRAVEL AND A SET SCREW PLACED IN THE APPROPRIATE HOLES AND TIGHTENED DOWN TO THE DRIVE SHAFt.
- IF A VENT IS MOTORIZED BE SURE LIMIT SWITCHES FOR VENT PROPORTIONING ARE INSTALLED, AND A TARGET FOR THE CLOSE LIMIT BUTTON IS IN PLACE.
- BE SURE TO REMOVE PREVIOUSLY INSTRUCTED SECURING MATERIAL, STEP 12 BEFORE INSTALLING VENT COVERING.
- AT THIS TIME IT IS A GOOD IDEA TO THOROUGHLY LUBRICATE THE VENT MECHANISM AS OUTLINED IN THE DETAIL, INCLUDED IN THE CONSTRUCTION BOOKLET.
- WITH SOME PLANNING, THE FIELD DRILLED HOLES CAN BE DONE ON THE GROUND TO HELP WITH THE INSTALLATION. CARRYING THIS ONE STEP FURTHER, THE VENT CAN BE BUILT IN BY SECTIONS ON THE GROUND AND PLACED INTO THE SKELETON OF RIDGE. THE SPIRCE STRUTS WOULD THEN BE LEFT TO CONTROL THE SECTIONS.

SEE SCREW SPACING TABLE (8MM PC. ROOF SHT.)



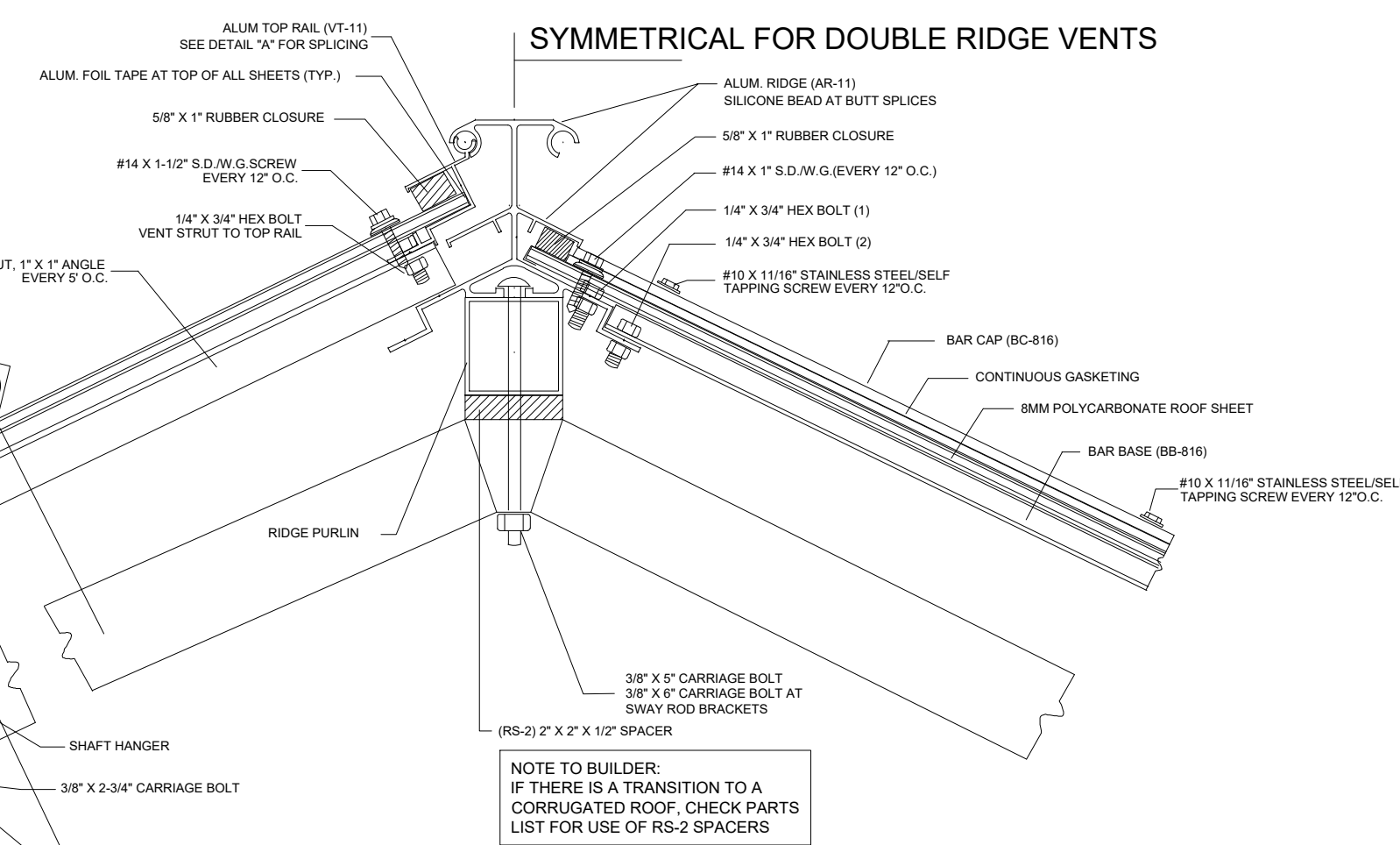
### VENT FRAME DETAIL

# VENT SHEETING



DETAIL "A" TOP RAIL SPLICE

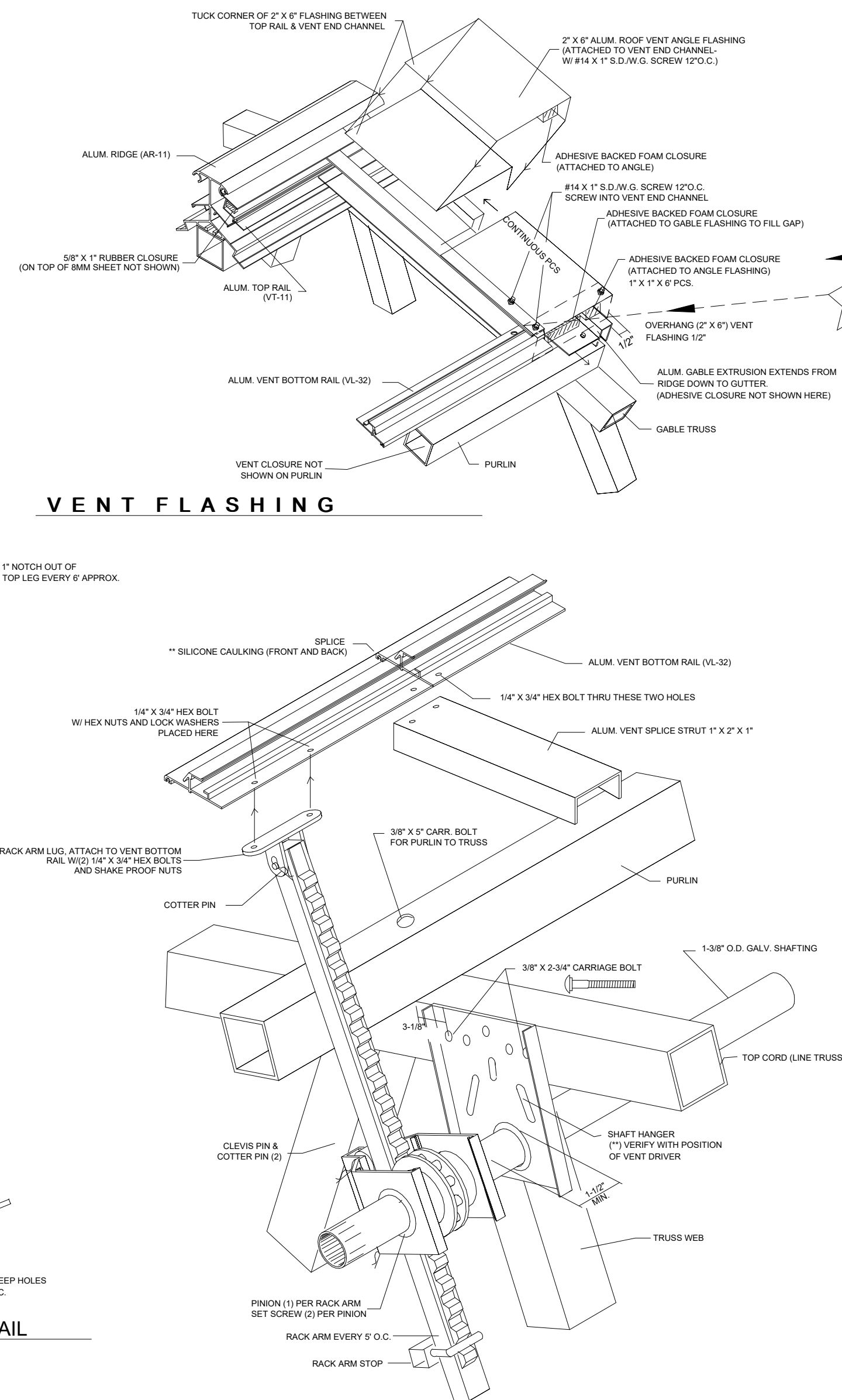
## SYMMETRICAL FOR DOUBLE RIDGE VENTS



SECTION THRU ROOF

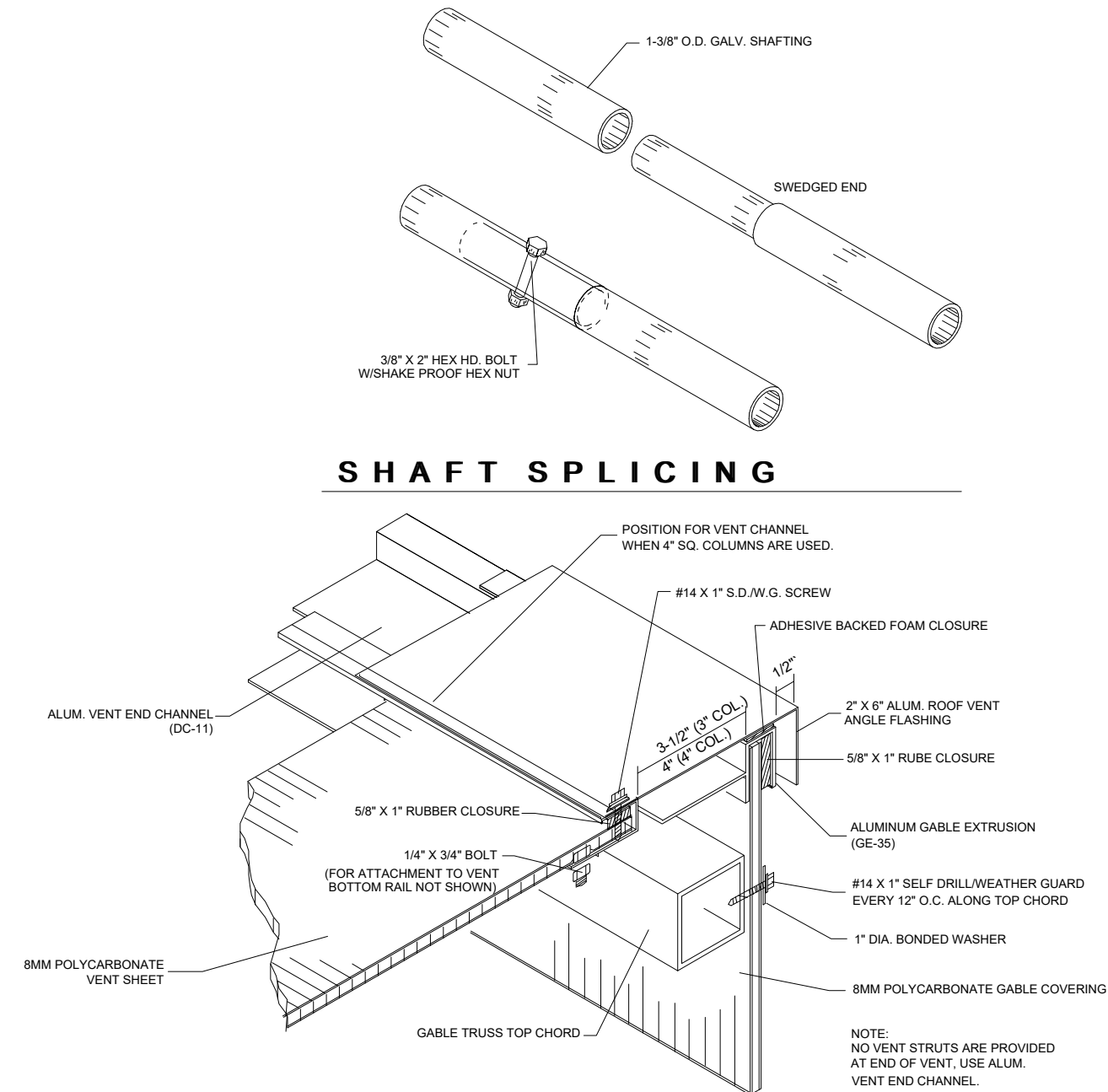
NOTE TO BUILDER:  
IF THERE IS A TRANSITION TO A  
CORRUGATED ROOF, CHECK PARTS  
LIST FOR USE OF RS-2 SPACERS

## VENT FLASHING

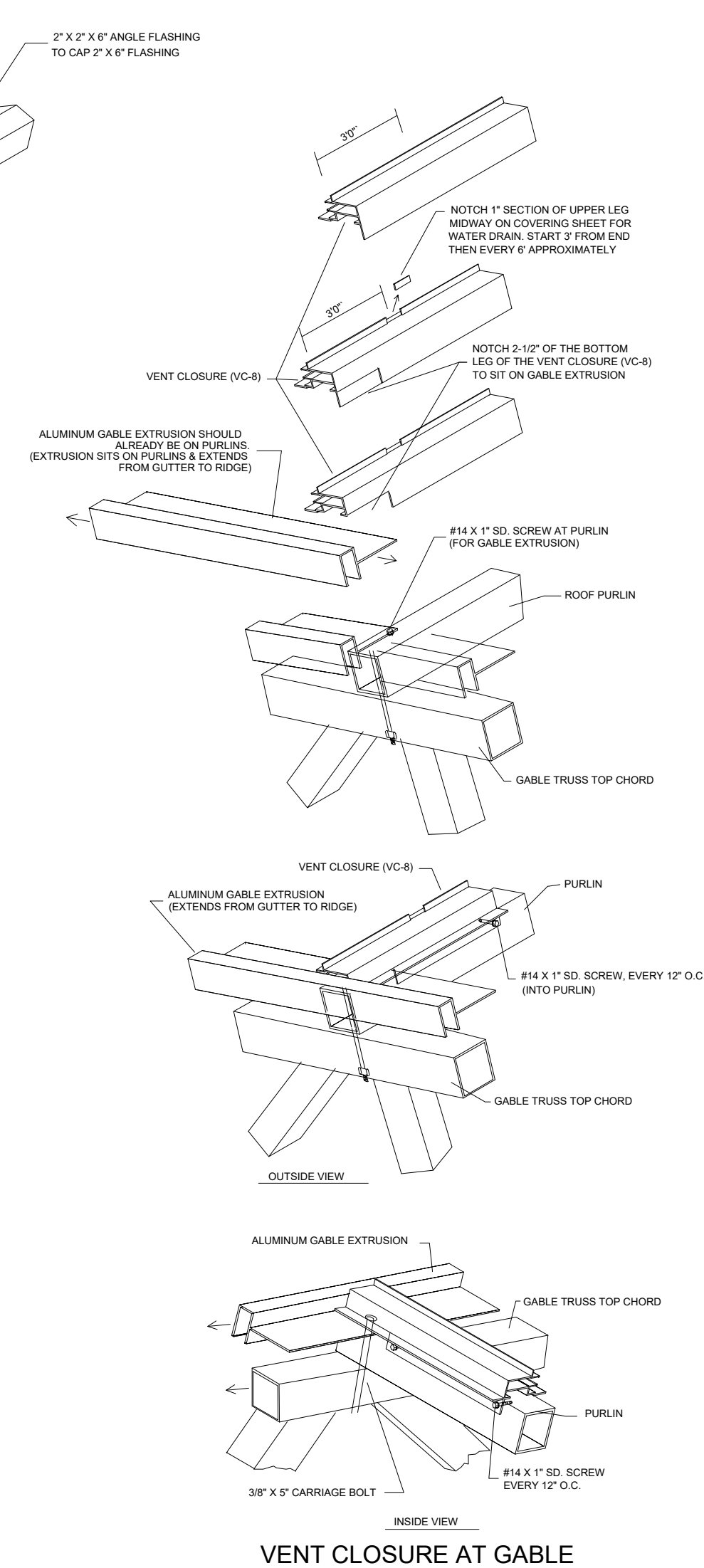


## RACK ARM PLACEMENT

## SHAFT SPLICING



## SECTION 2



### VENT CLOSURE AT GABLE



8/19/2020

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ROOF GLAZING DETAILS

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CHECKED BY

S. ELLIOTT

SALESPERSON:

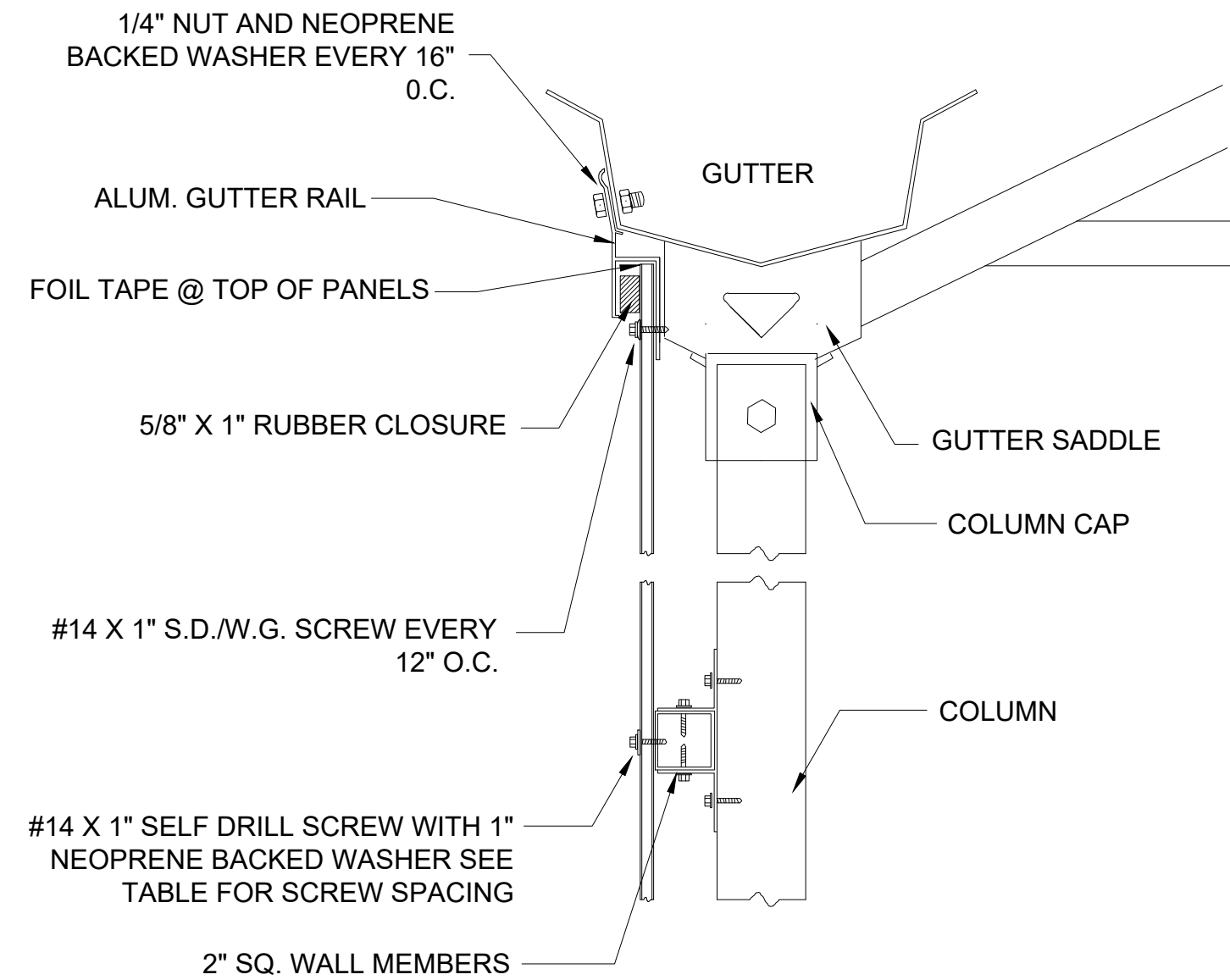
REVISIONS:

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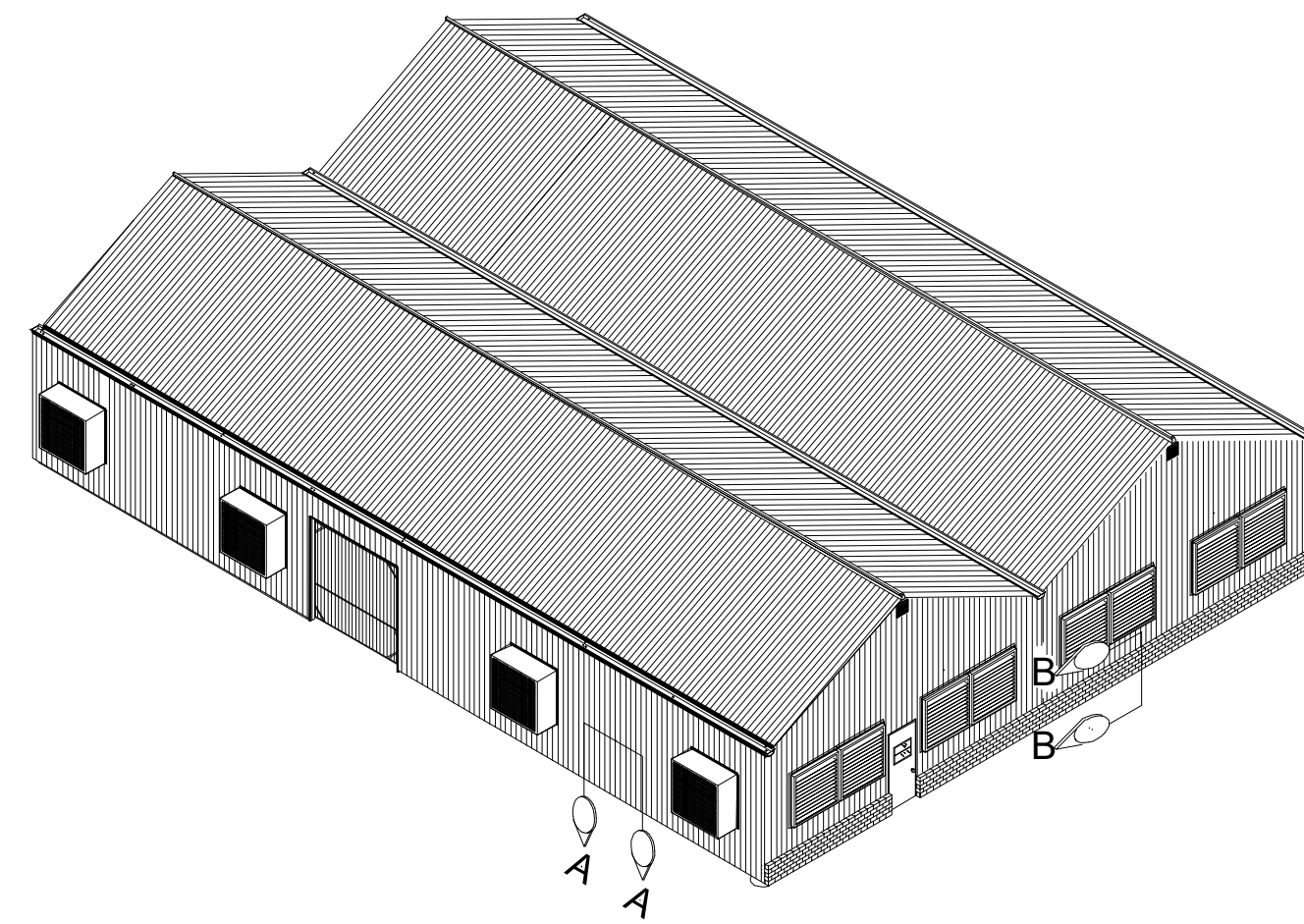
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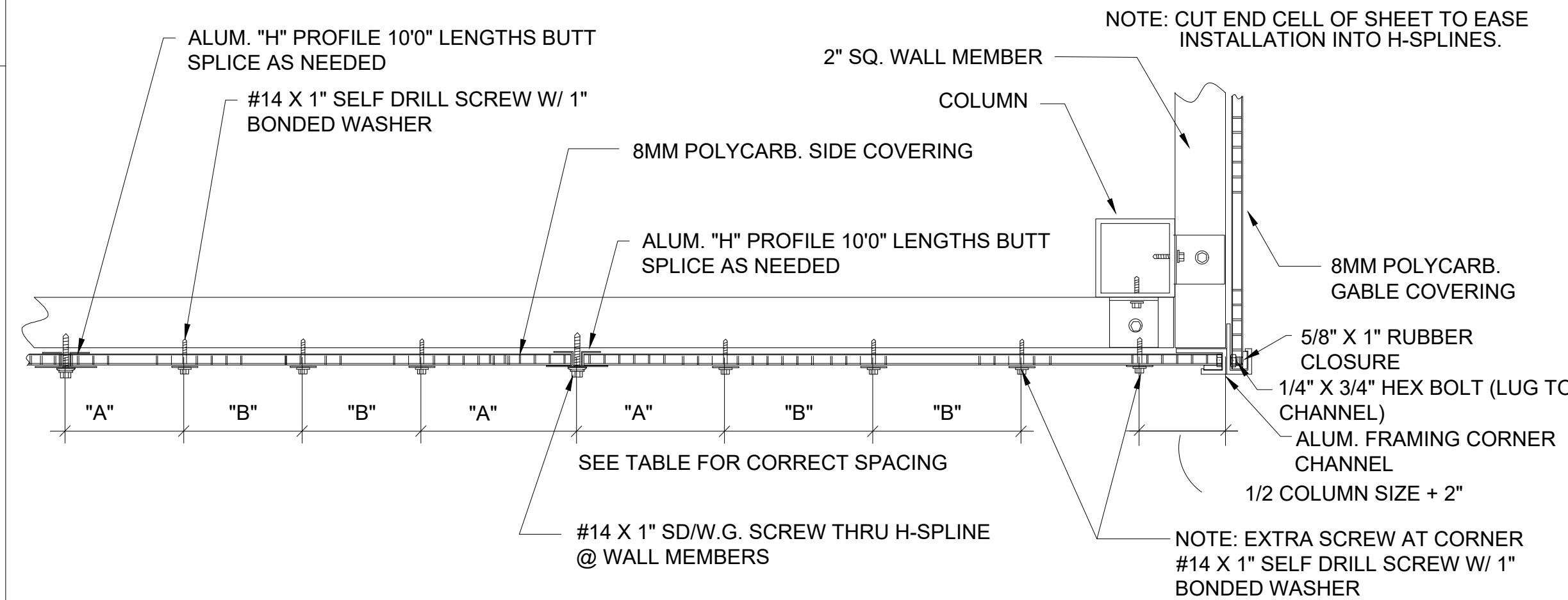
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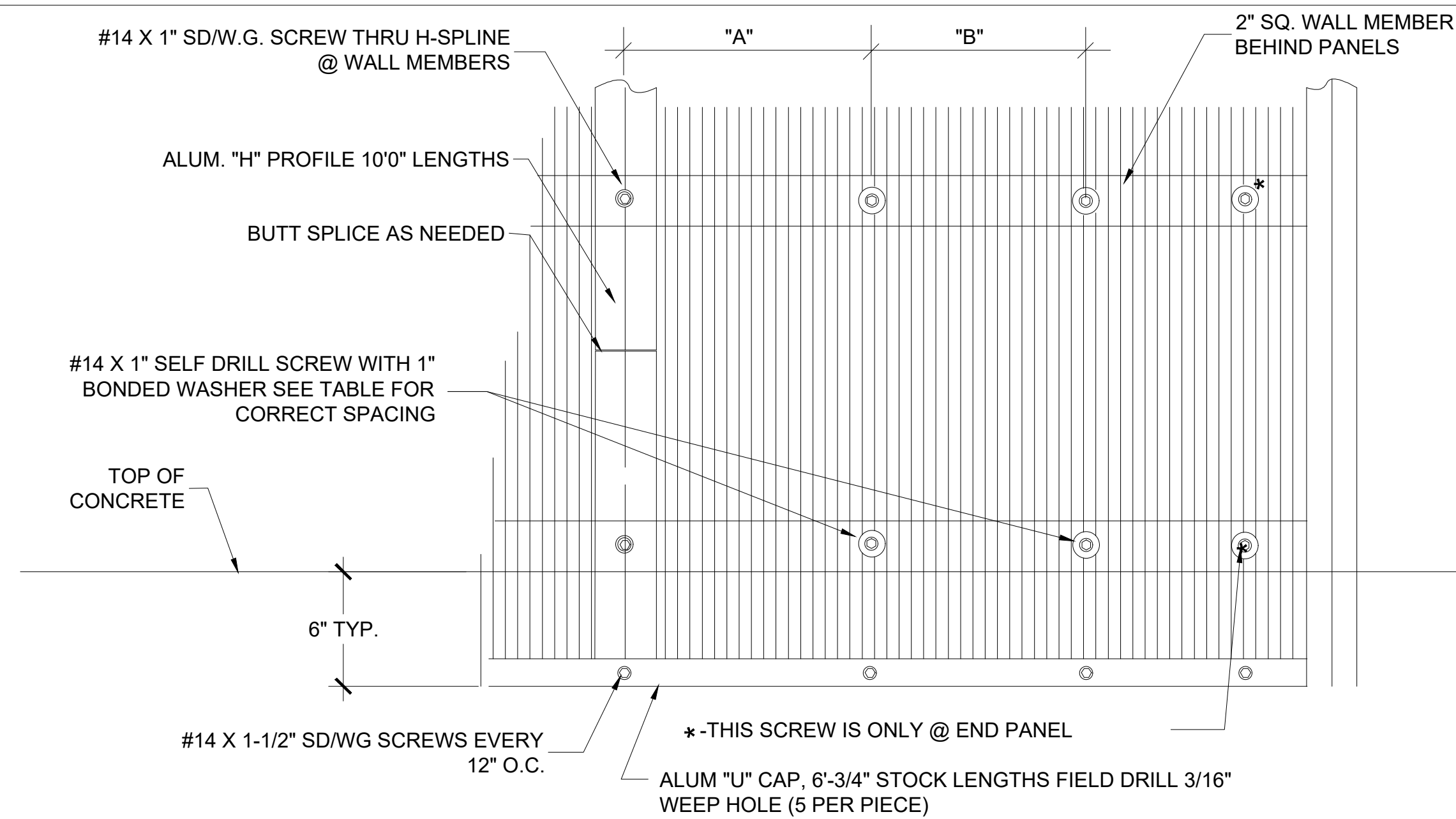
1 SECTION THRU SIDEWALL



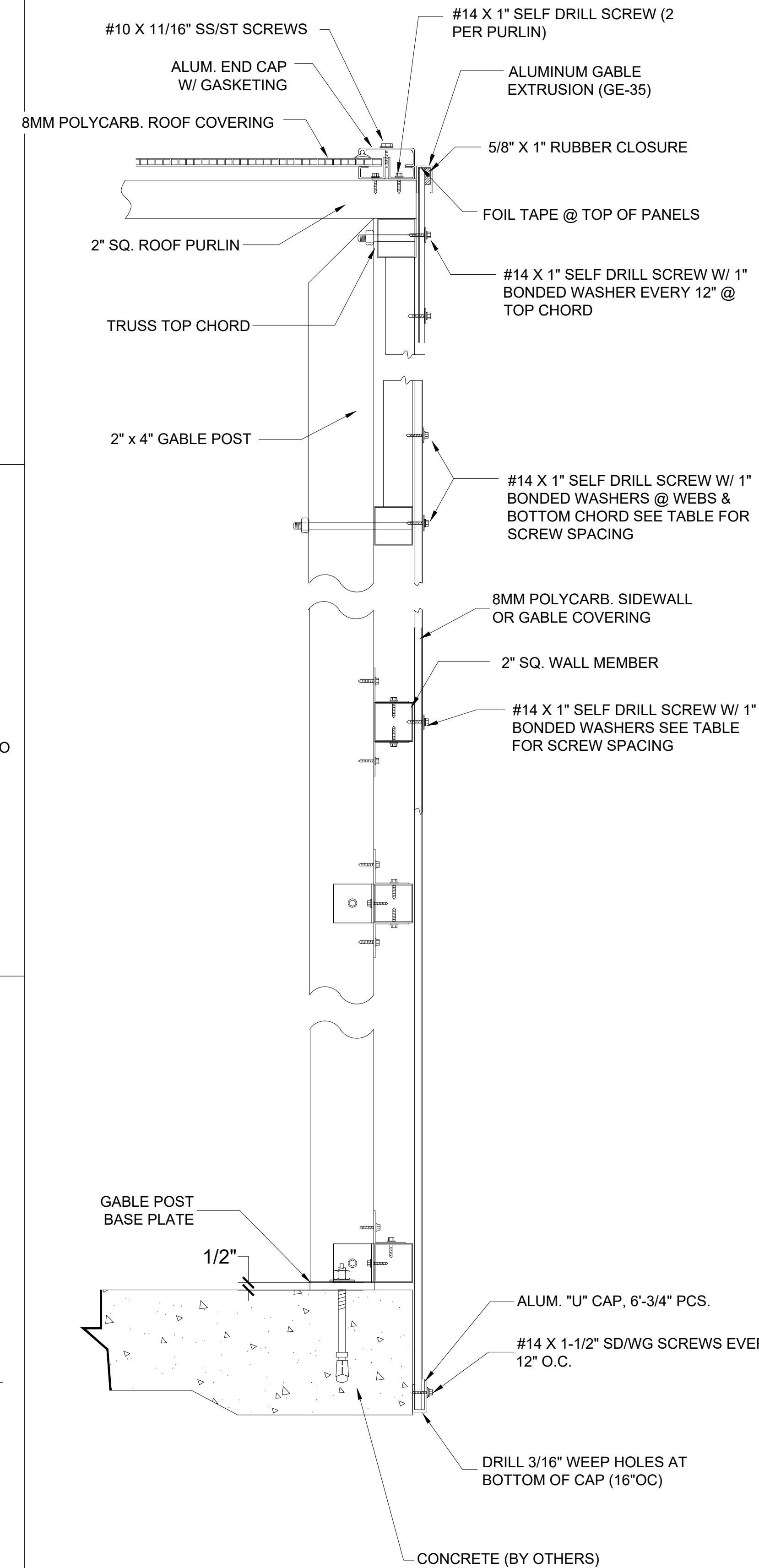
PANEL WIDTH	A	B
4'0"	~ 12"	~ 24"
6'0"	~ 12"	~ 24"
8'0"	~ 6"	~ 12"



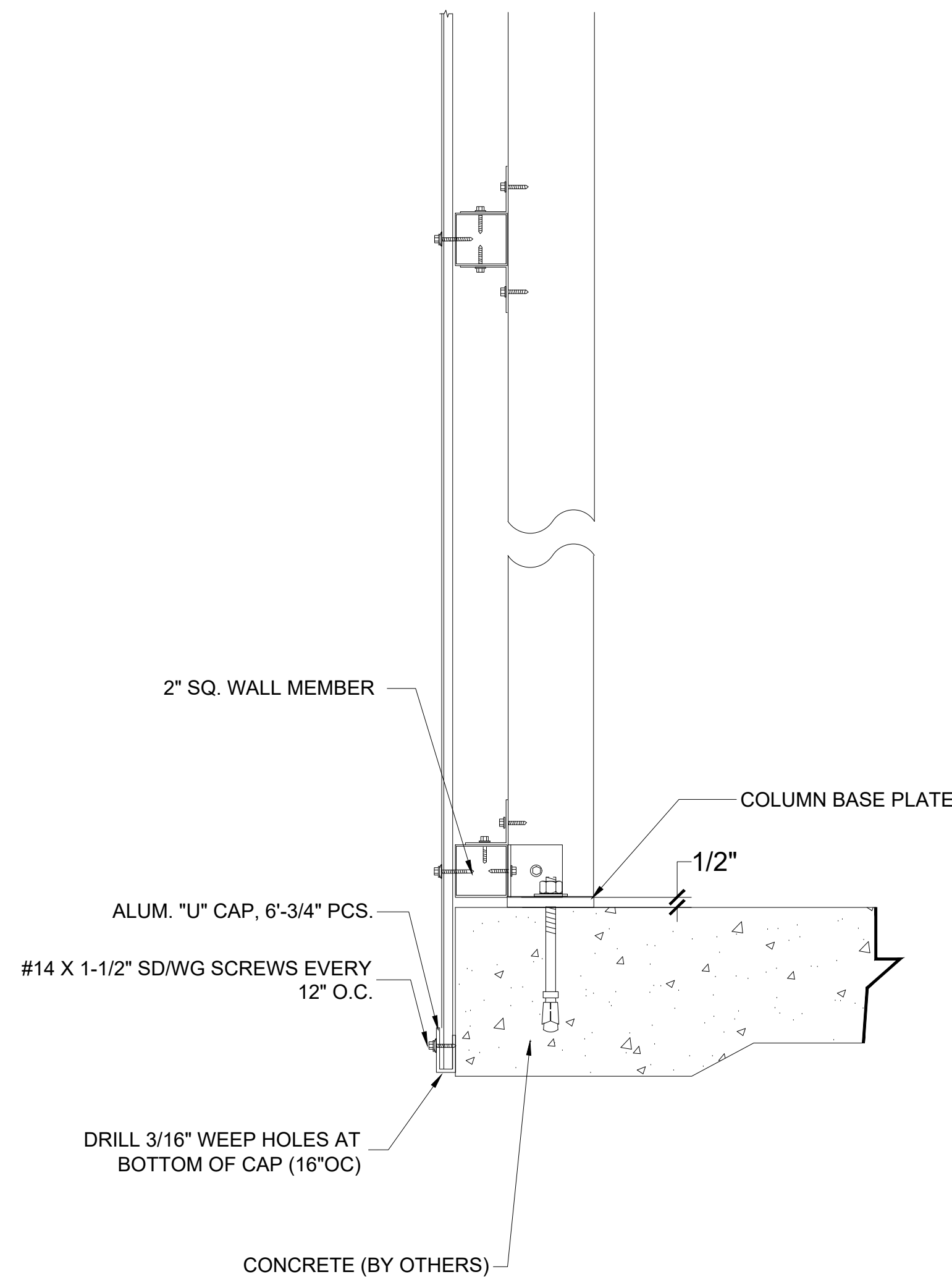
4 PLAN VIEW (SECTION A-A)



5 FRONT ELEVATION



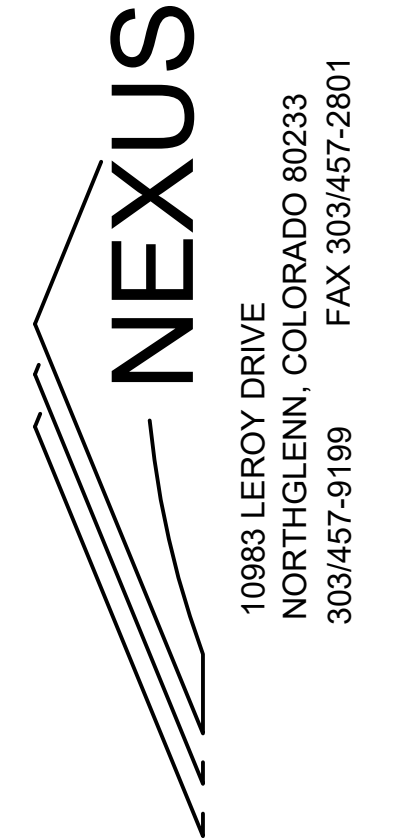
6 SECTION THRU GABLE (POLYCARB. ROOF)



SIDE VIEW (B-B)



PROFESSIONAL ENGINEER SEAL



HOME RANCH  
54880 COUNTY ROAD 129, CLARK, CO 80428  
(1) 36'-0" X 72'-0" VAIL STRUCTURE  
8MM POLYCARBONATE SIDES & ENDS  
W/ BASE PLATES GLAZING DETAILS

CREATION DATE:  
07/22/20  
DRAWN BY:  
A. HATCHER  
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S. ELLIOTT  
SALESPERSON:  
P. GOLDEN  
REVISIONS:

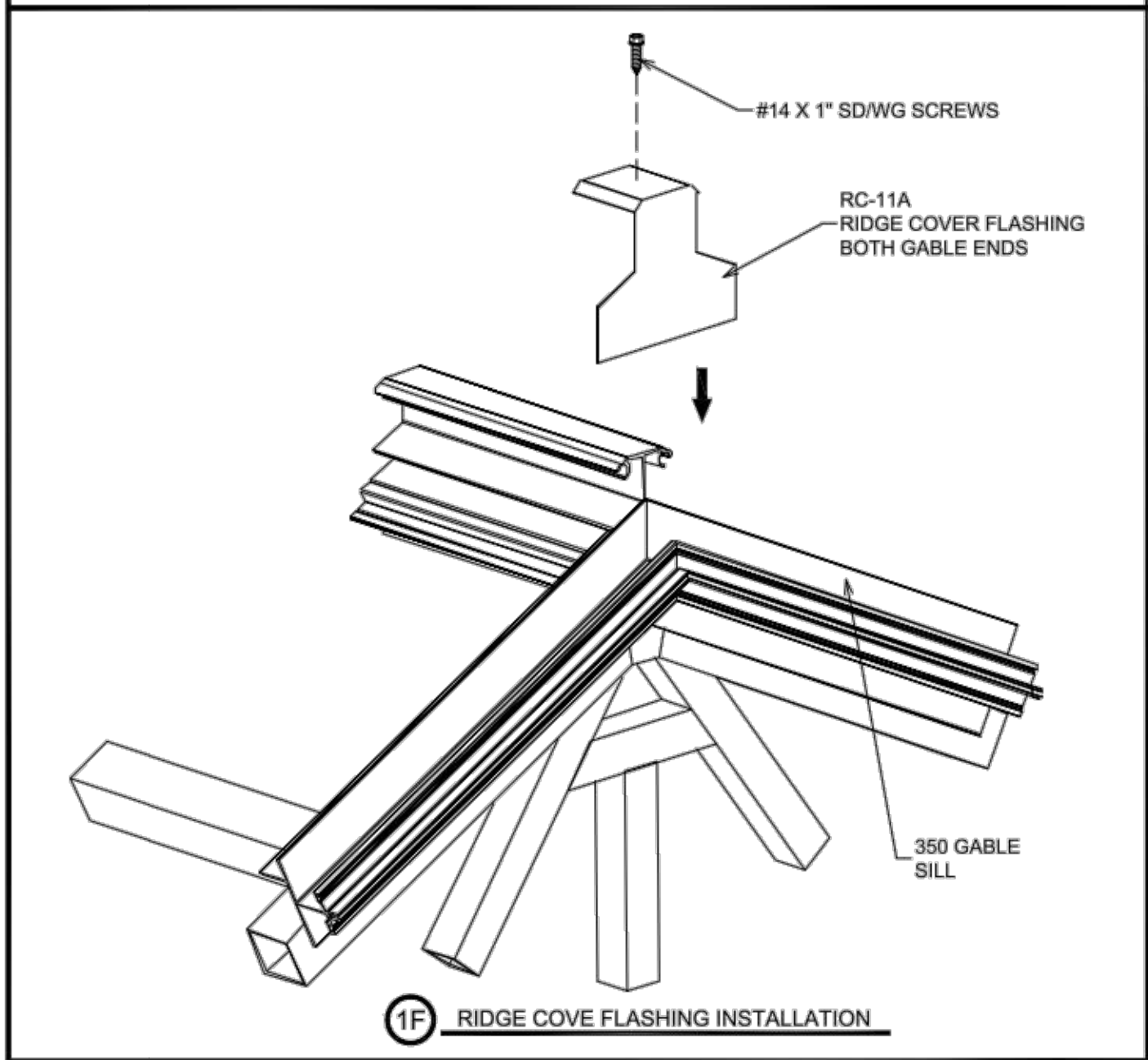
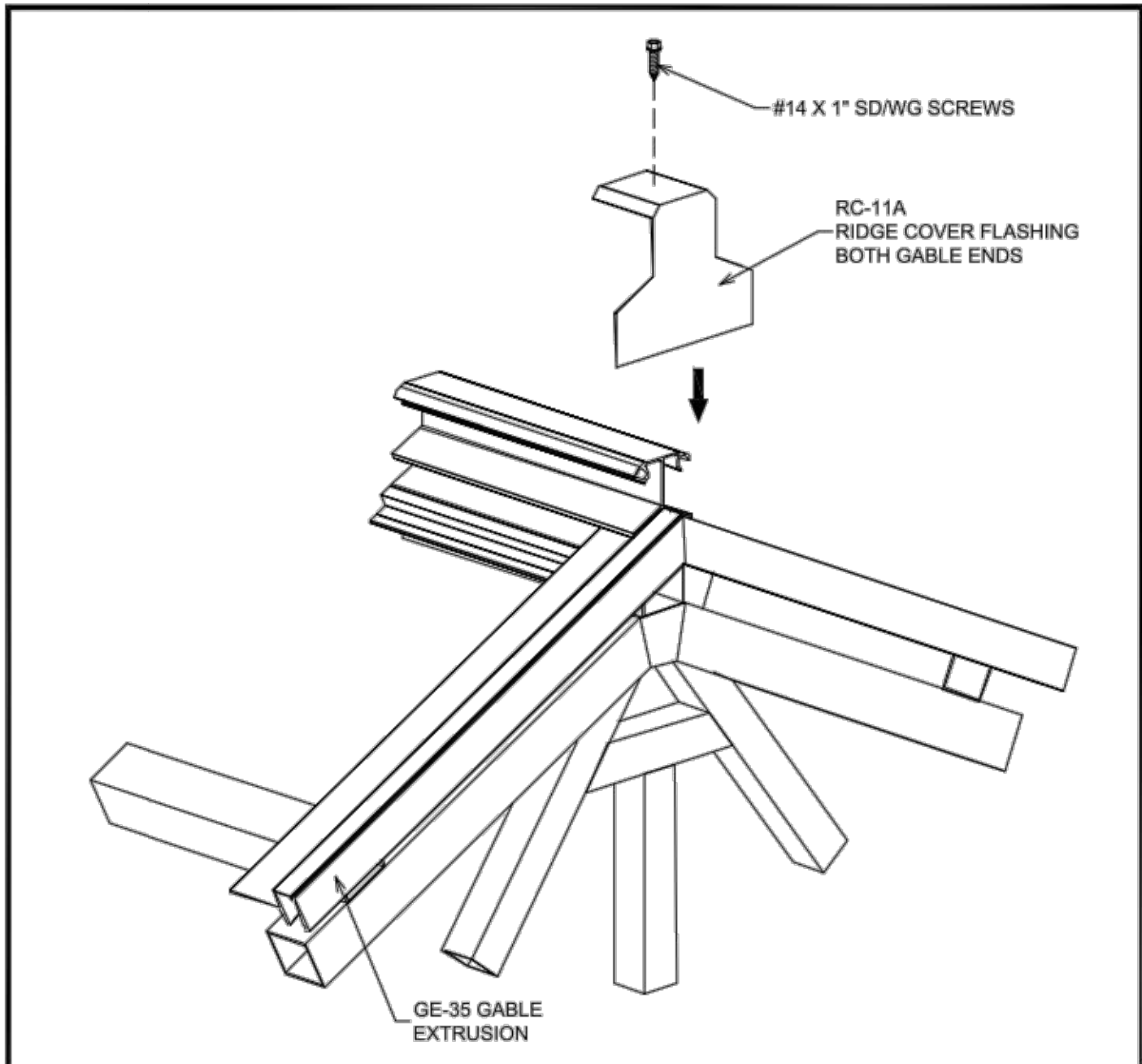
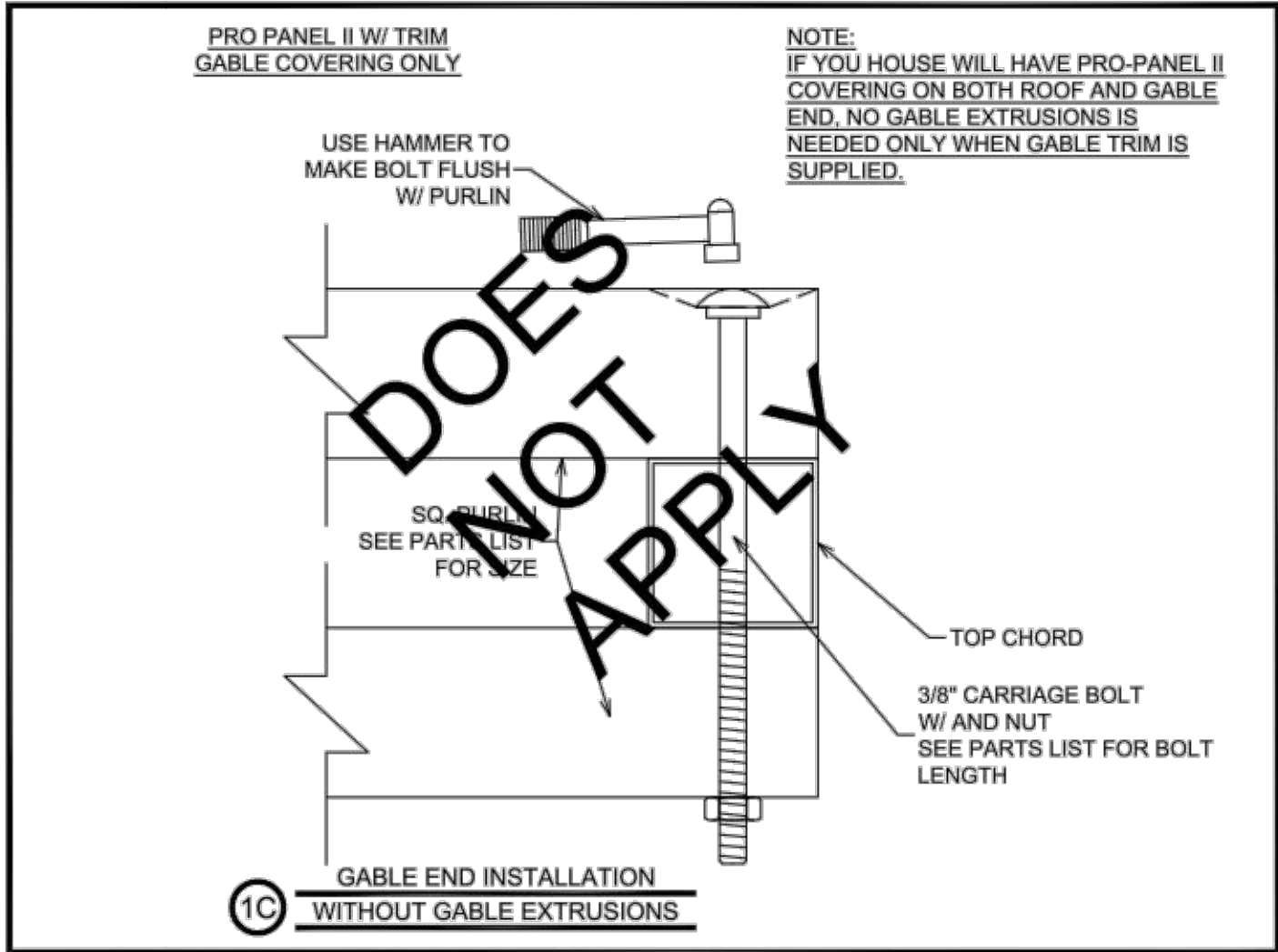
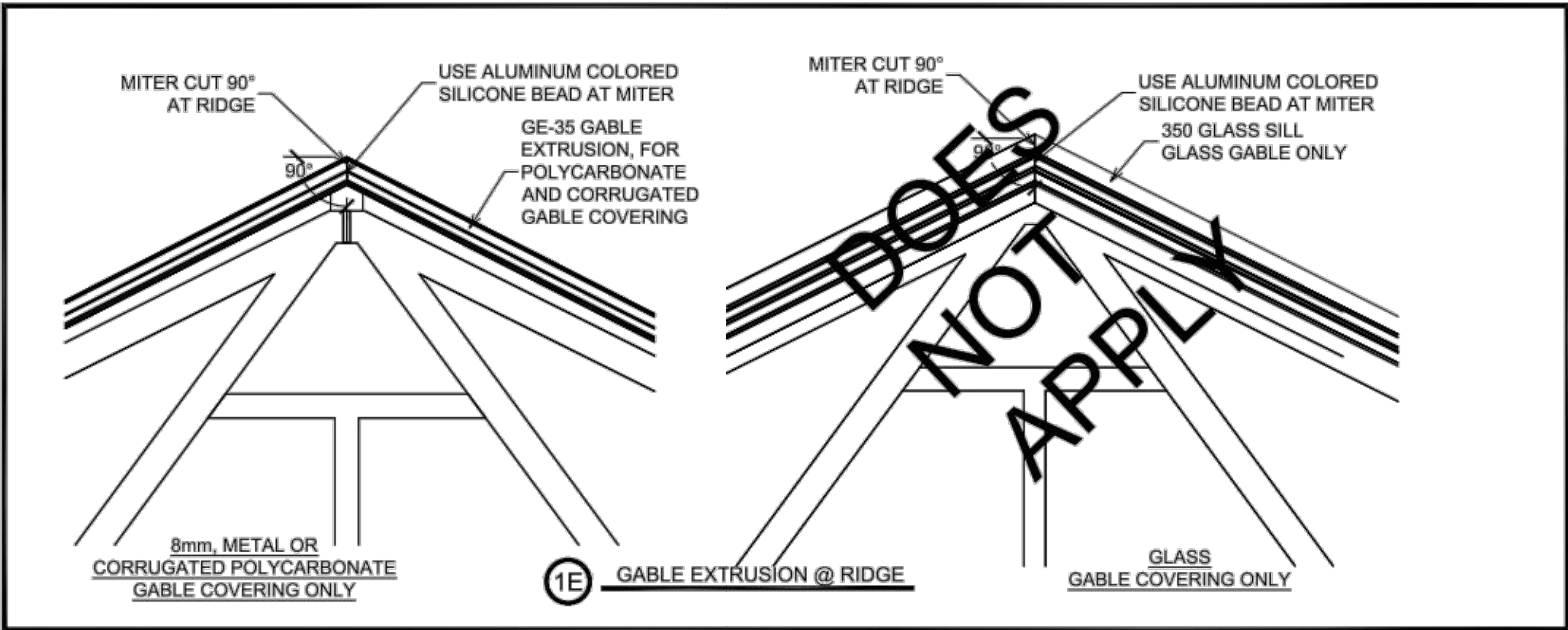
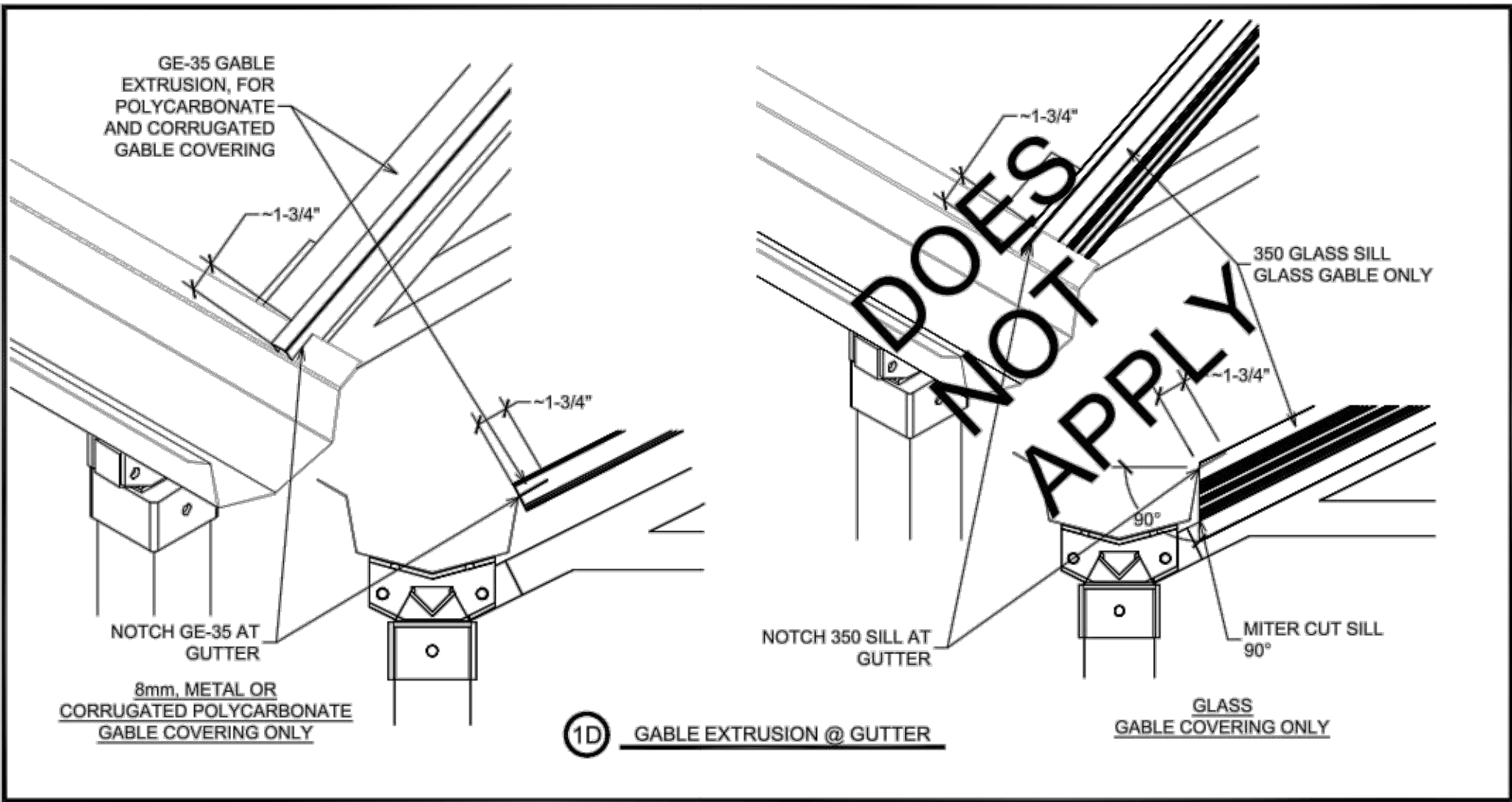
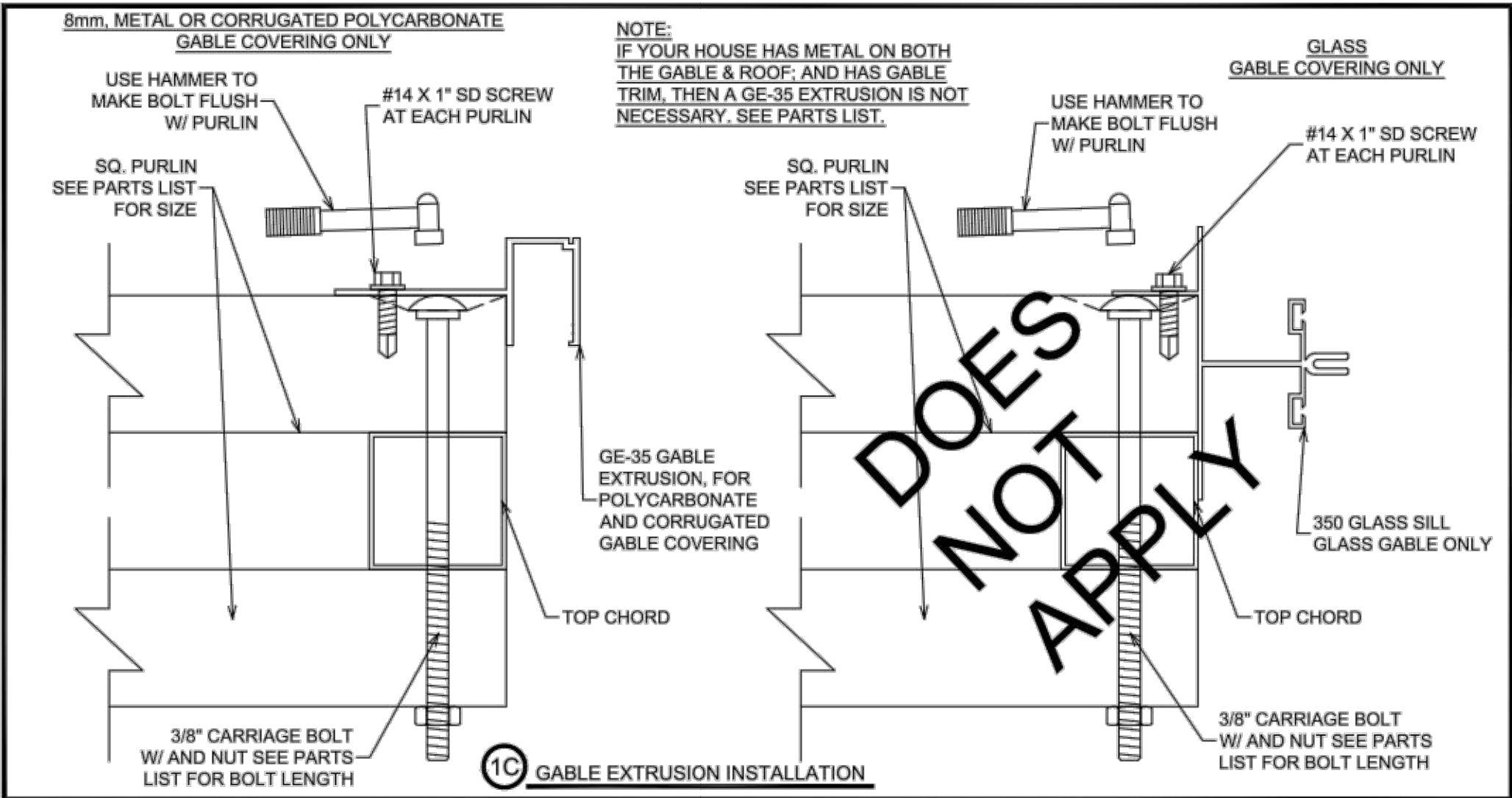
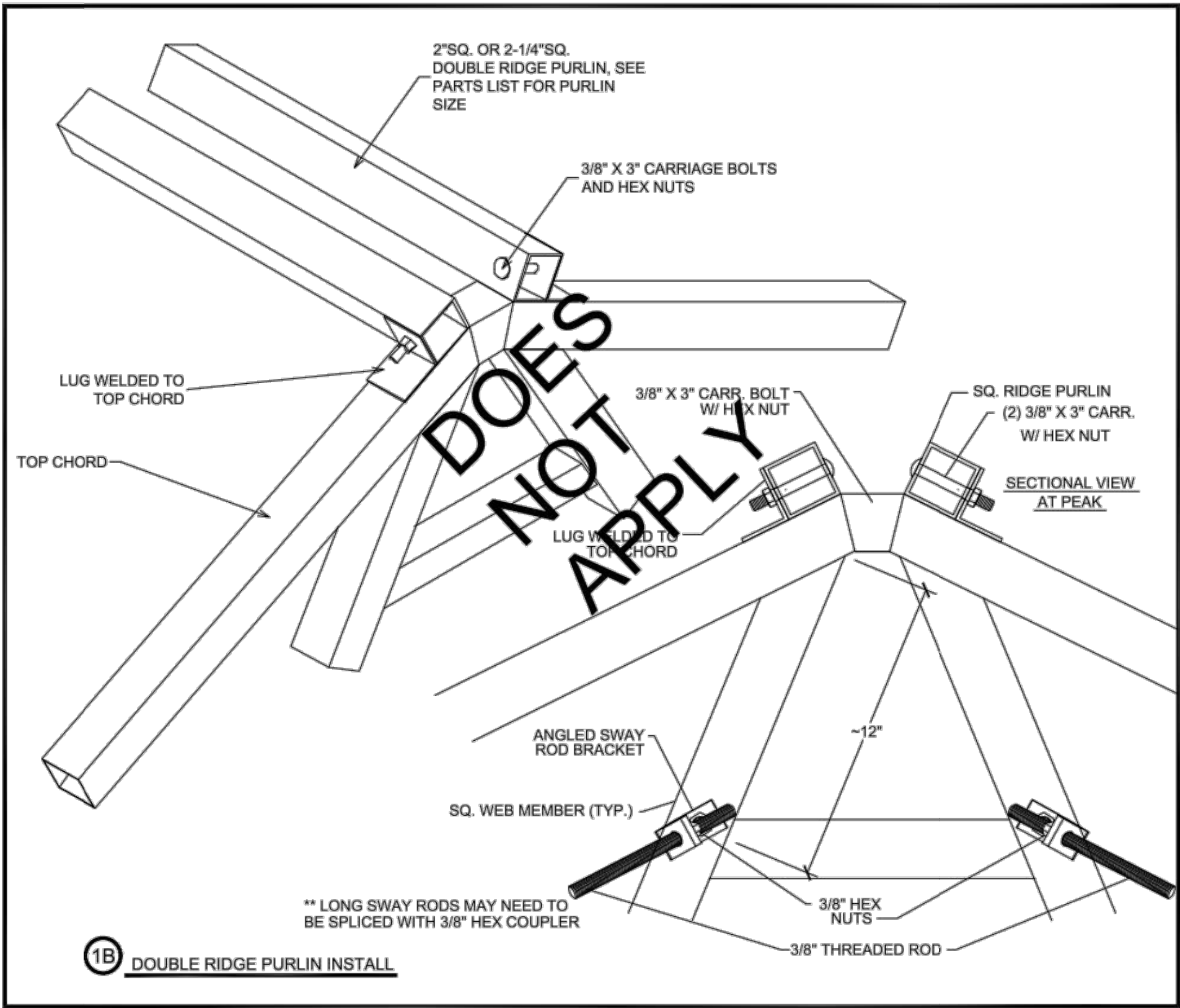
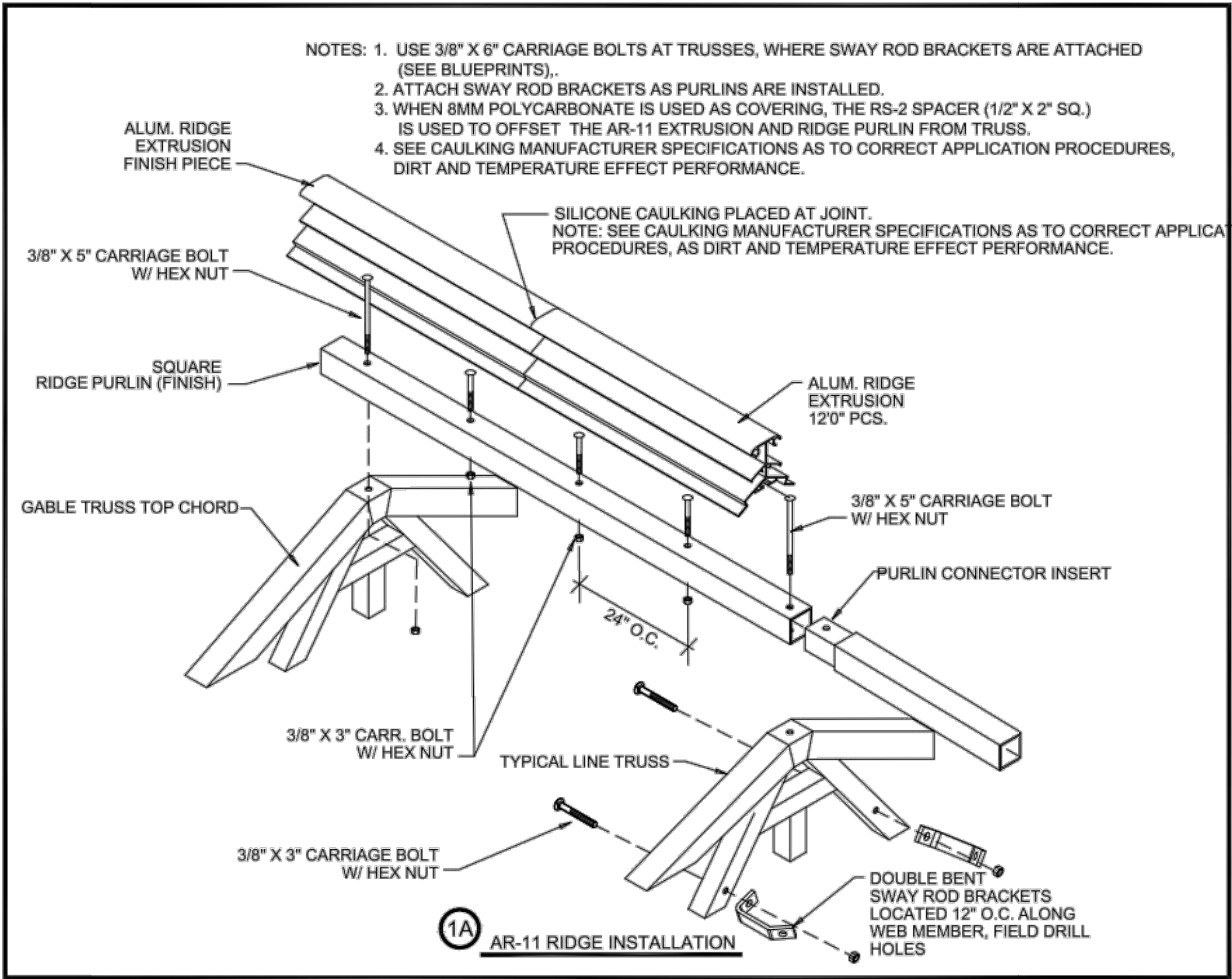
SHEET #: GH-5.1  
NEXUS JOB #: N36493

STRUCTURE ONLY



STEP 1: (AR-11) RIDGE OR DOUBLE RIDGE PURLIN W/ GABLE EXTRUSION INSTALLATION

AFTER ALL TRUSSES AND PURLINS ARE INSTALLED, DETERMINE IF YOUR HOUSE WILL HAVE A (AR-11) RIDGE EXTRUSION OR DOUBLE RIDGE PURLINS. SEE DETAILS (1A & 1B). BECAUSE OF THE 6 INCHES OF INSULATION THAT IS REQUIRED, A SECOND SET OF PURLINS WILL BE REINSTALLED UNDERNEATH THE TOP CHORDS. SEE PARTS LIST FOR HARDWARE NECESSARY FOR THE INSTALLATION. NEXT, INSTALL THE GABLE EXTRUSION. SEE PARTS LIST TO DETERMINE WHICH EXTRUSION IS TO BE USED. IF YOU HOUSE WILL HAVE PRO-PANEL ON BOTH THE GABLE END AND ROOF; GABLE TRIMS MAY BE USED AND, THE GABLE EXTRUSIONS ARE NOT NECESSARY. USE A #14 X 1"SD SCREW AT EACH PURLIN TO ATTACH EXTRUSIONS. SEE DETAIL (1C). MINOR NOTCHING AND MITER CUTTING WILL BE NECESSARY AT THE PEAK AND GUTTERS. SEE DETAILS (1D AND 1E). USE ALUMINUM COLORED SILICONE BEAD AT MITER CUTS AND NOTCHES. IF YOUR HOUSE HAS AN OPTIONAL RIDGE CAP (RC-11A), INSTALL AT BOTH GABLE ENDS. SECURE WITH #14 X 1"SD SCREW. SEE DETAIL (1F).



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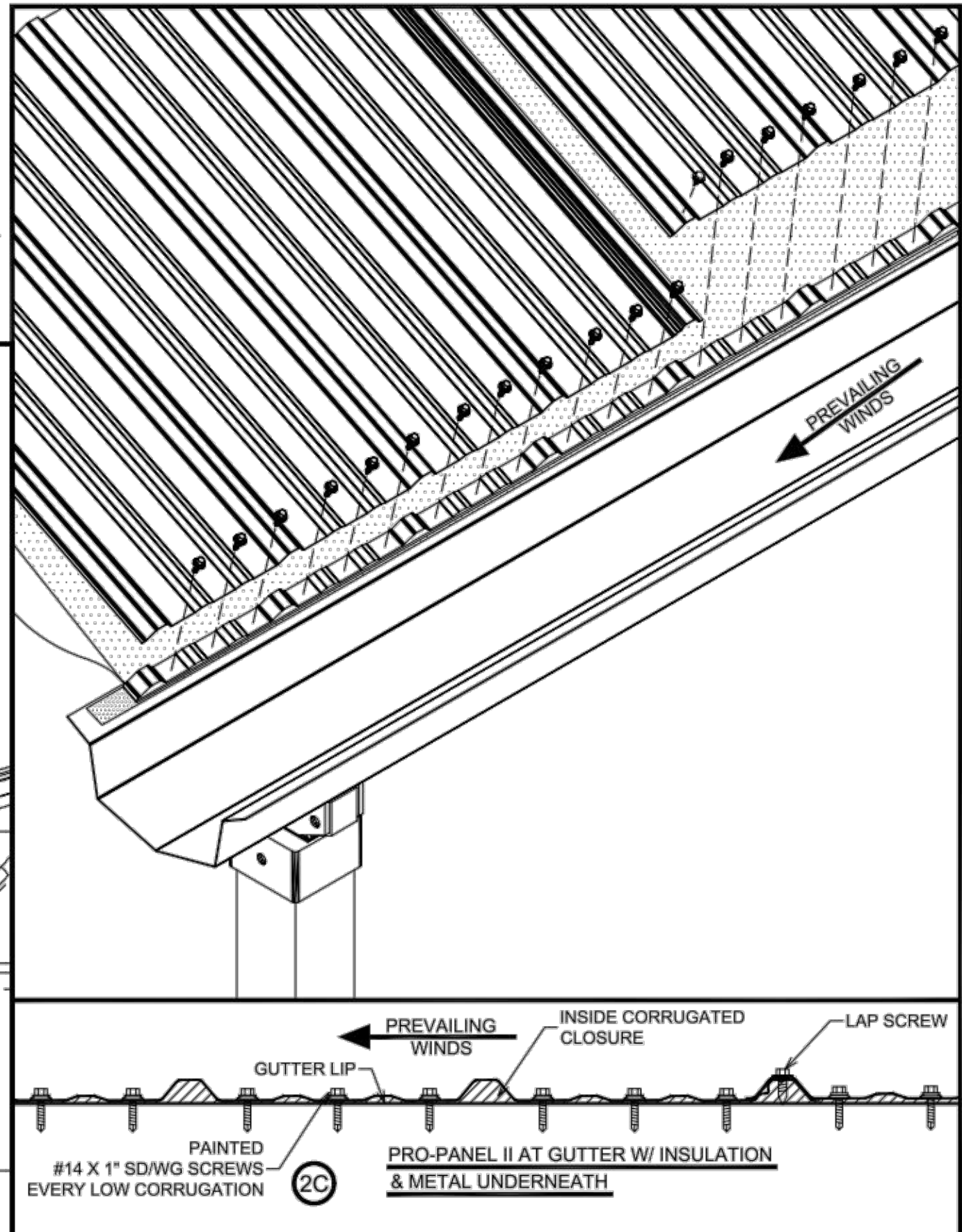
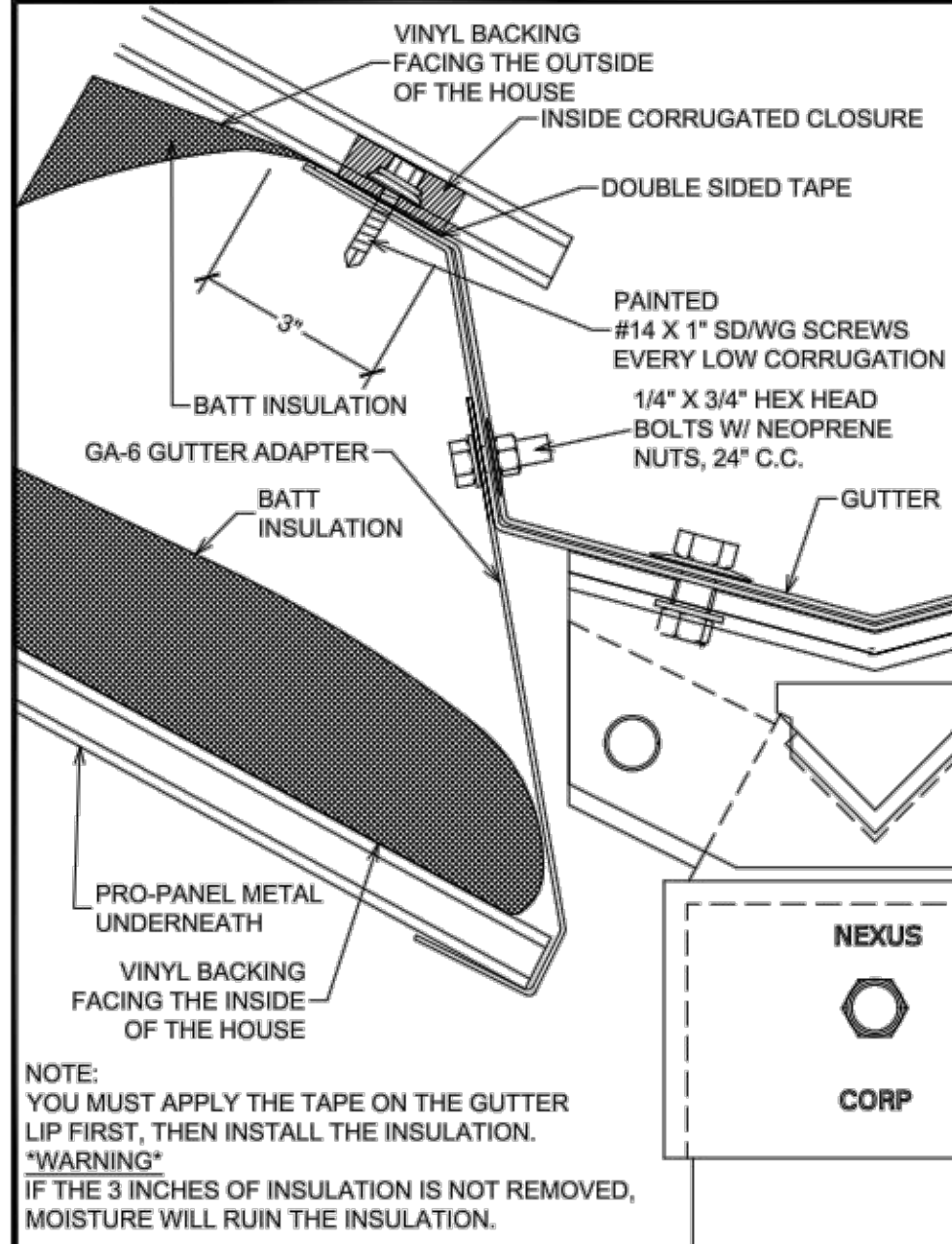
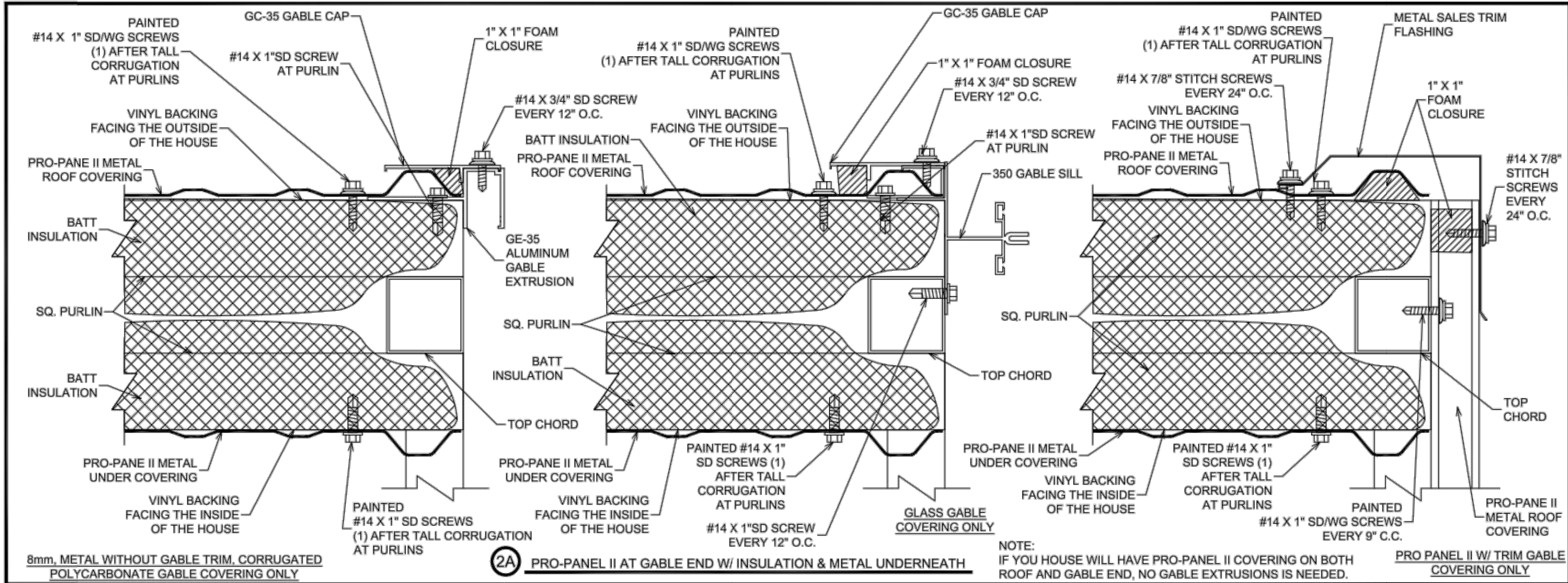
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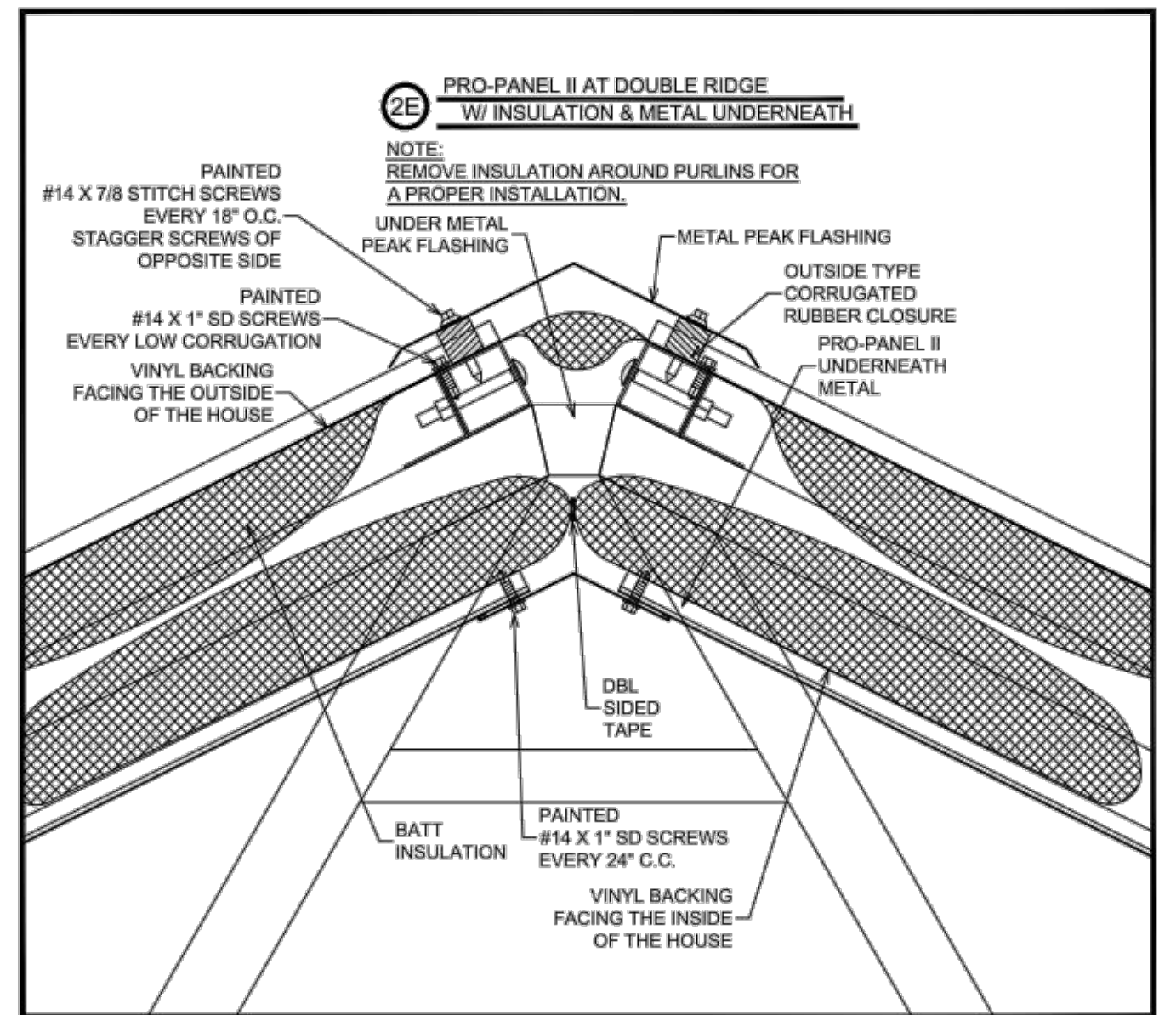
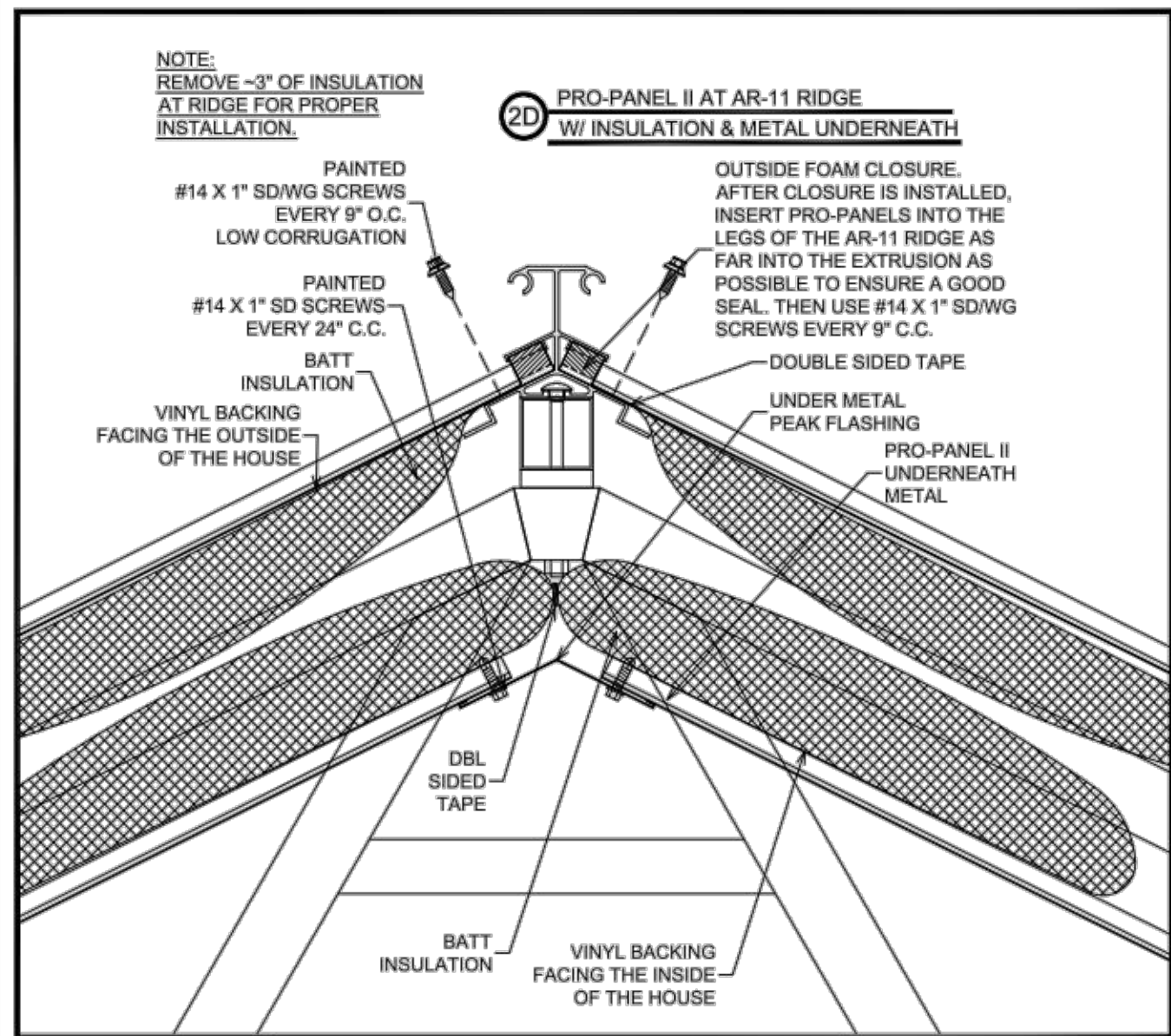
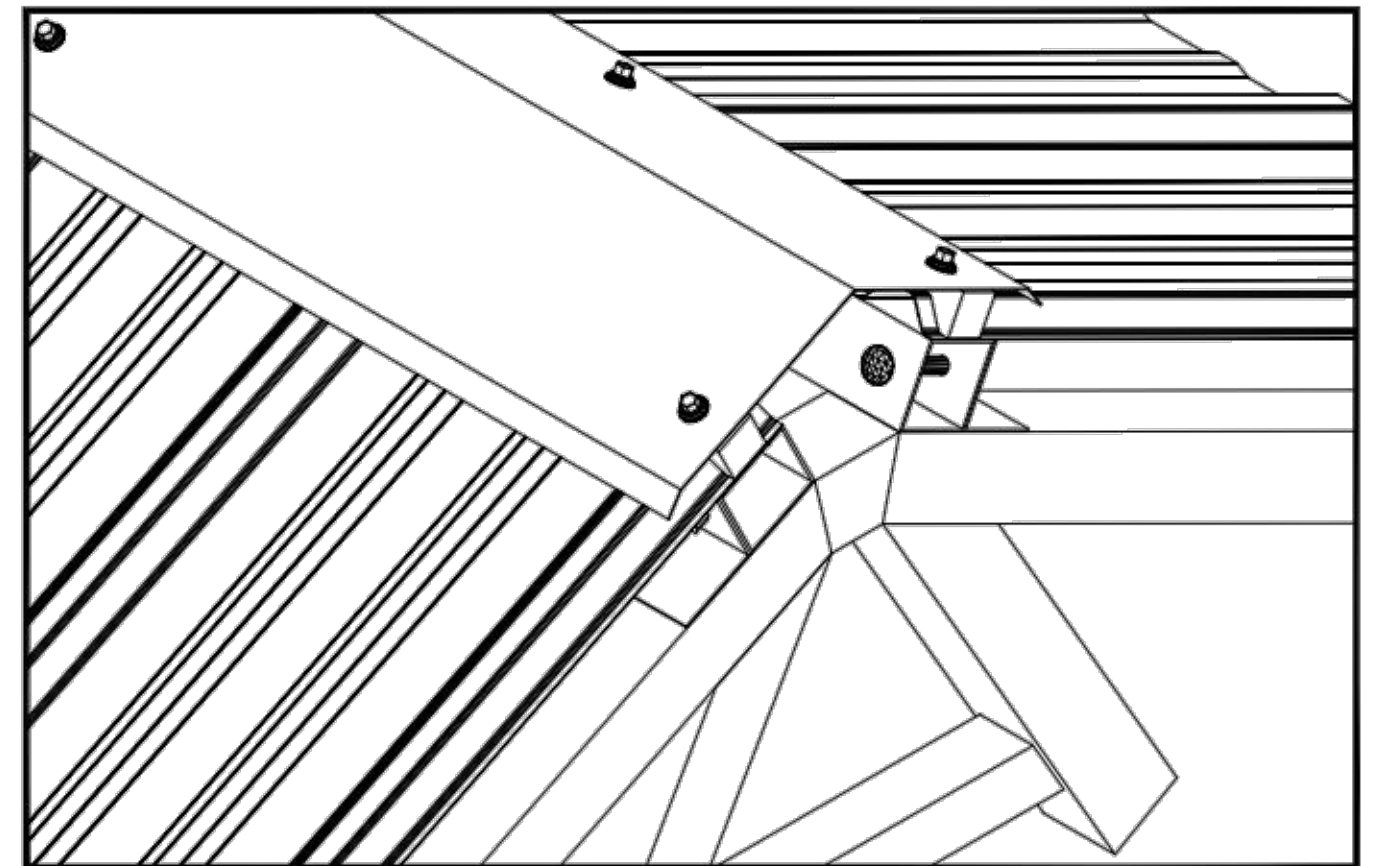
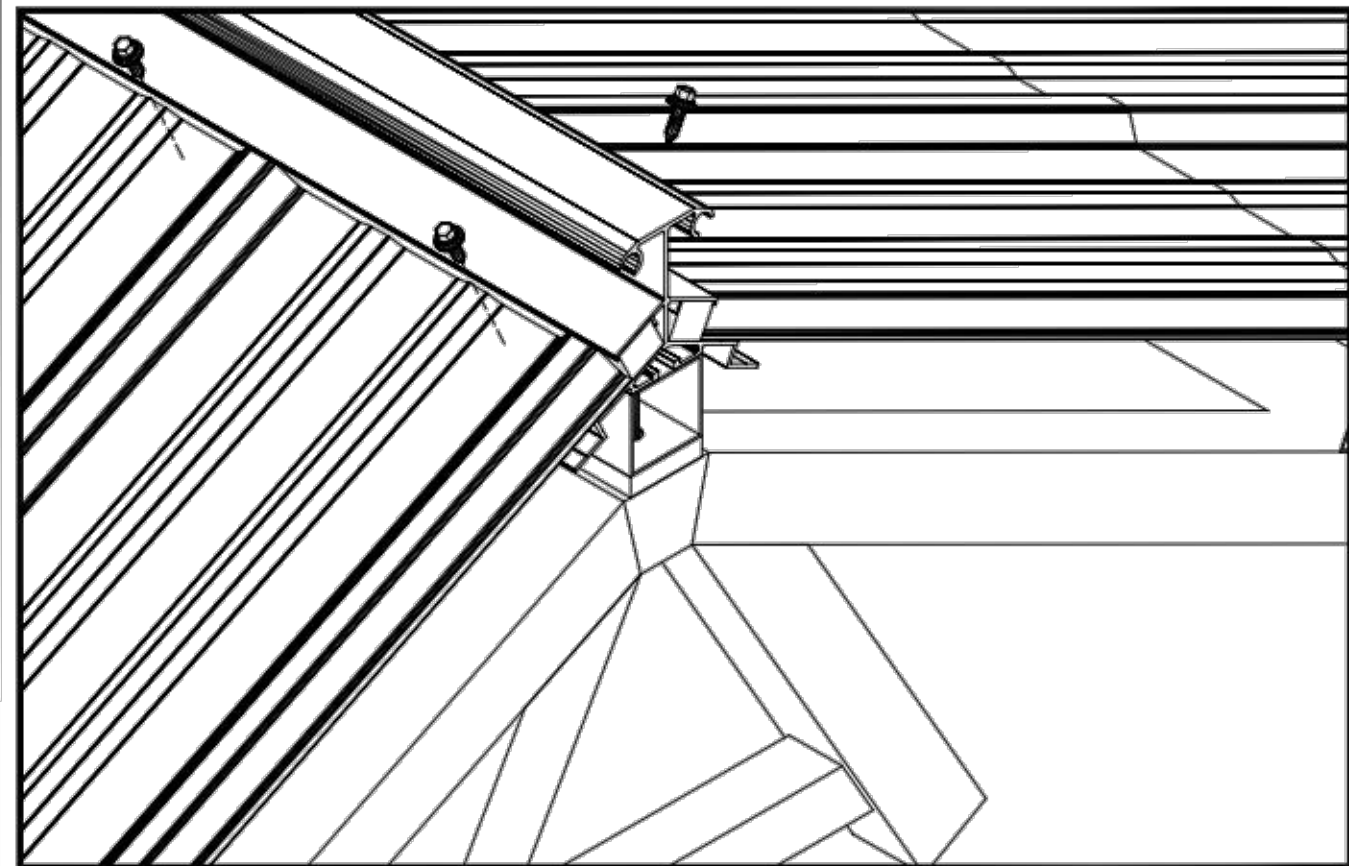
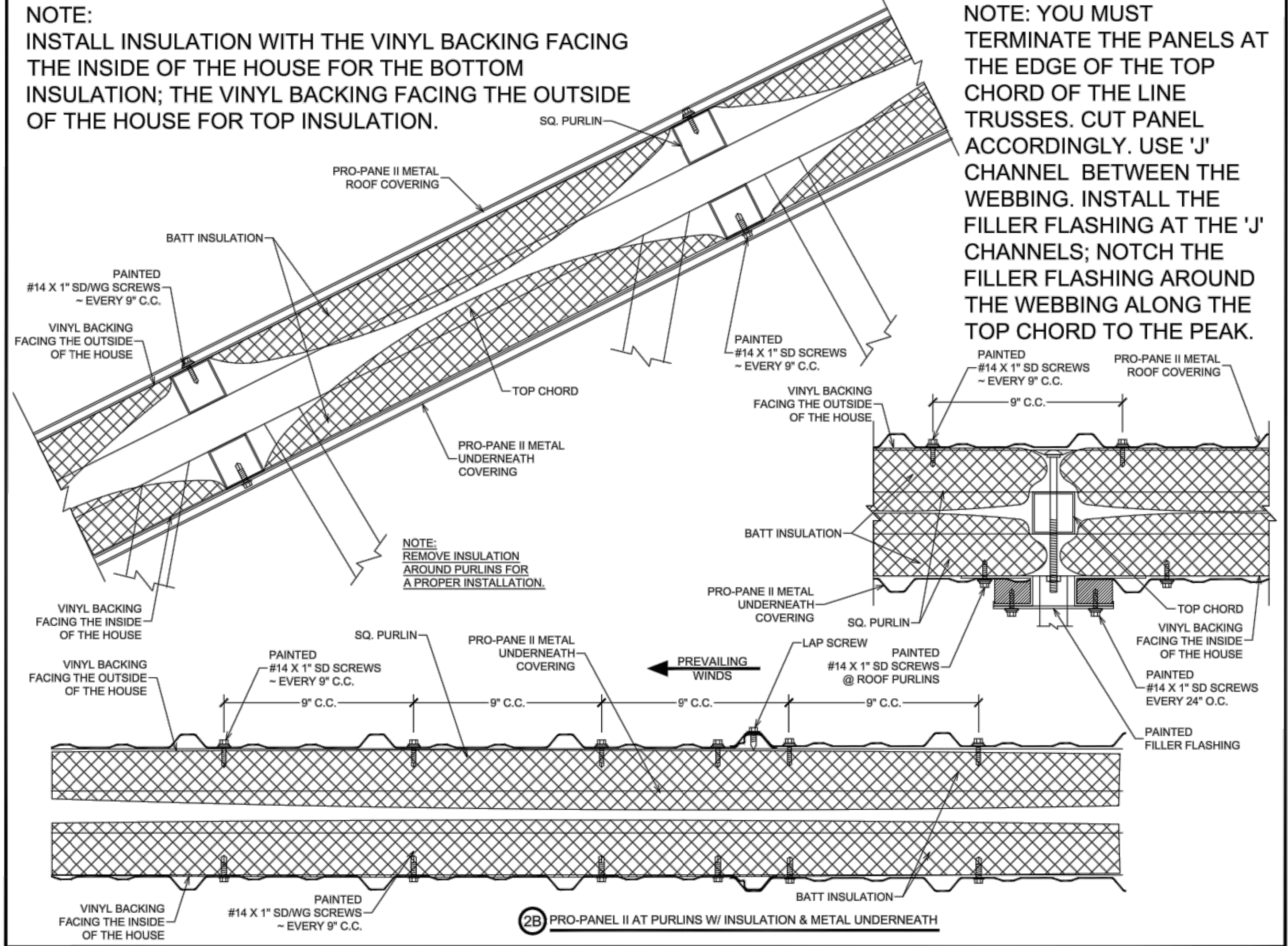


STEP 2: PRO-PANEL GLAZING - WITH INSULATION & METAL UNDERNEATH

DETERMINE WHICH ROOF SCENARIO YOU HAVE. BEGIN INSTALLING PRO-PANEL METAL SHEETS AT ONE GABLE END BEING MINDFUL OF THE PREVAILING WINDS. IF YOU HAVE A ROOF WITH (AR-11) RIDGE, INSERT THE UNDERSIDE PRO-PANEL AND THE BATT INSULATION INTO THE SHEET SLOT BEFORE SECURING THE REST OF THE PANELS. SEE DETAIL (2D). YOU WILL ALSO NEED TO APPLY DOUBLE SIDED TAPE AND BATT INSULATION TO THE GUTTER LIP BEFORE SECURING THE CORRUGATED CLOSURE AND PRO-PANEL II SHEET TO THE GUTTER. SEE DETAIL (2C). SECURE THE END PANEL TO THE PURLIN WITH A #14 X 1"SD/WG SCREW. NEXT, APPLY 1" X 1" FOAM CLOSURE AT THE END OF THE GABLE. INSTALL THE GABLE CAP (GC-12). FASTEN THE GABLE CAP WITH #14 X 3/4" SD SCREW EVERY 12" O.C. SECURE THE UNDER METAL TO THE PURLINS WITH PAINTED #14 X 1"SD SCREWS EVERY 9" C.C. IF YOUR HOUSE HAS PRO-PANEL II ON BOTH THE GABLE END AND ROOF, THE GABLE EXTRUSIONS ARE NOT NECESSARY. SEE DETAIL (2A). NOTE, IF YOU HAVE A GLASS GABLE END, YOU MUST REVERSE THE (GC-12) TO ENSURE A PROPER INSTALLATION. CONTINUE INSTALLING PANELS SECURING THE SHEETS WITH #14 X 1" SD/WG SCREWS EVERY 9" C.C. USE A LAP SCREW TO MATE TWO PANELS TOGETHER EVERY 24" O.C. MAKE SURE TO APPLY THE BATT INSULATION AND DOUBLE SIDED TAPE TO THE GUTTER LIP BEFORE PLACING THE LOW CORRUGATED CLOSURE ONTO THE LIP OF THE GUTTER. SECURE THE PANEL WITH #14 X 1" SD/WG SCREW AT EACH LOW CORRUGATION. INSTALL THE (GA-6) UNDER METAL GUTTER FLASHING TO THE UNDER SIDE OF THE GUTTER WITH 1/4" X 3/4" HEX BOLTS AND NUTS WITH NEOPRENE WASHERS. BE CERTAIN TO REMOVE 3" OF INSULATION FROM THE END OF GUTTER FOR PROPER INSULATION. SEE DETAIL (2C). ALSO YOU MUST MAKE SURE TO INSTALL THE INSULATION WITH THE VINYL BACKING FACING THE INSIDE OF THE HOUSE. SECURE THE PANELS AT THE ROOF AT THIS TIME. INSTALL THE UNDER METAL PEAK FLASHING WITH #14 X 1"SD SCREWS EVERY 24" O.C. SEE DETAILS (2D AND E). IF YOUR HOUSE HAS A DOUBLE RIDGE PURLIN; PLACE THE OUTSIDE CORRUGATED FOAM CLOSURE ONTO THE DOUBLE RIDGE PURLIN, USE #14 X 1"SD/WG SCREWS AT EVERY LOW CORRUGATION.. SEE DETAIL (2E). DETERMINE THE PREVAILING WIND TO ATTACH THE PRO-PANELS CORRECTLY AT THE LAPS.



NOTE: INSTALL INSULATION WITH THE VINYL BACKING FACING THE INSIDE OF THE HOUSE FOR THE BOTTOM INSULATION; THE VINYL BACKING FACING THE OUTSIDE OF THE HOUSE FOR TOP INSULATION.



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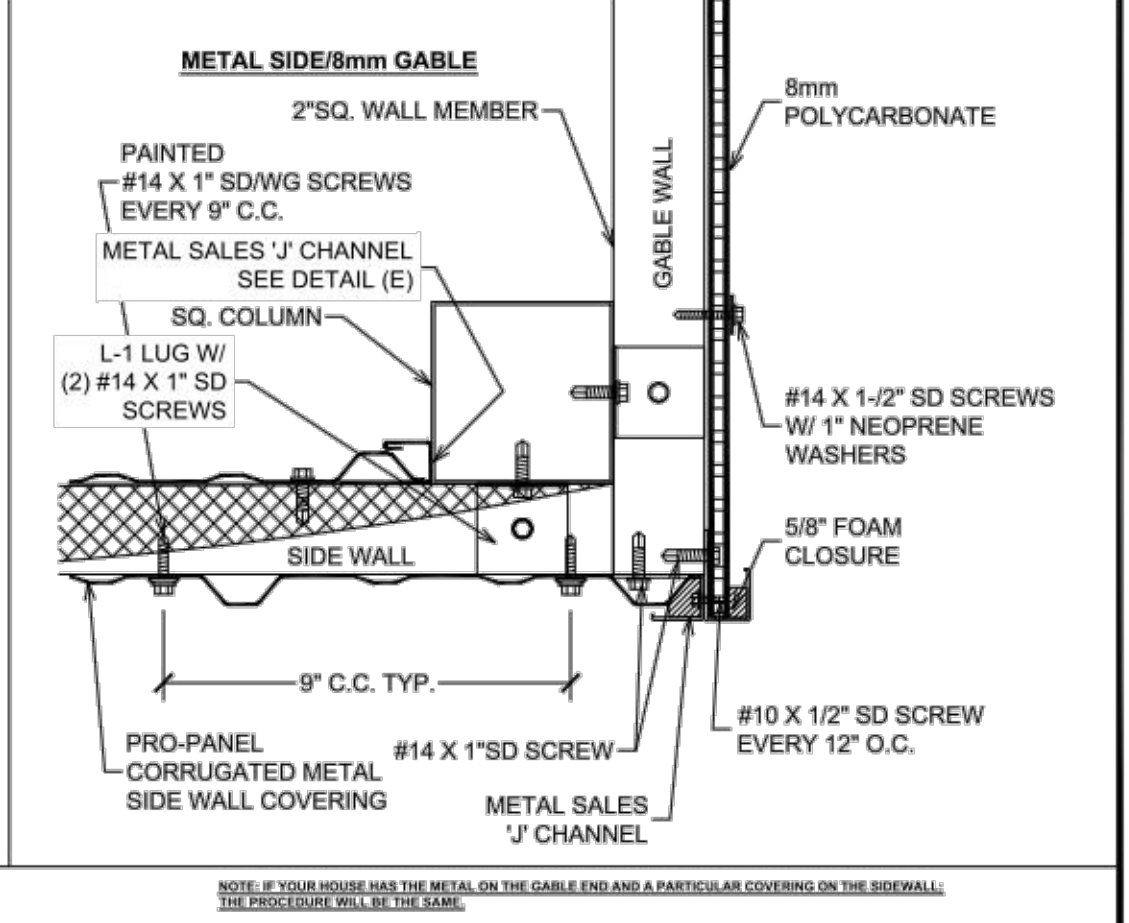
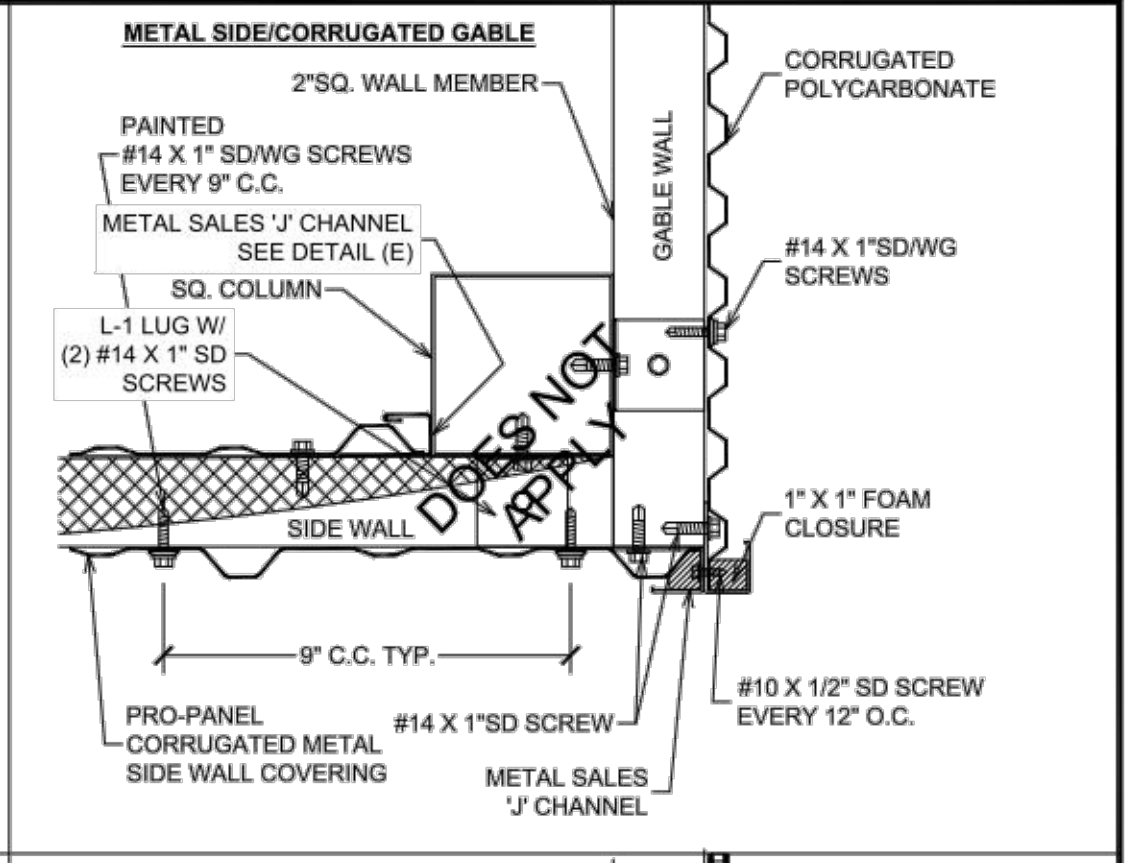
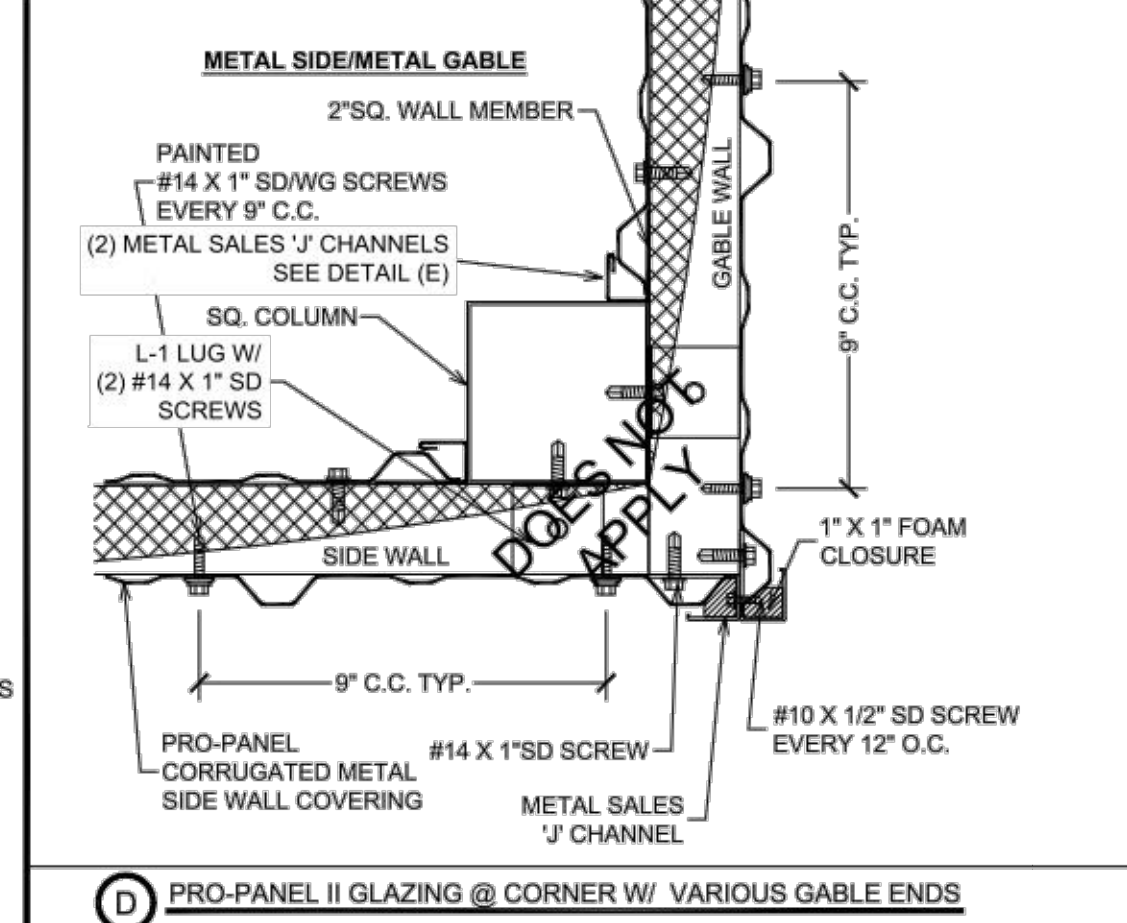
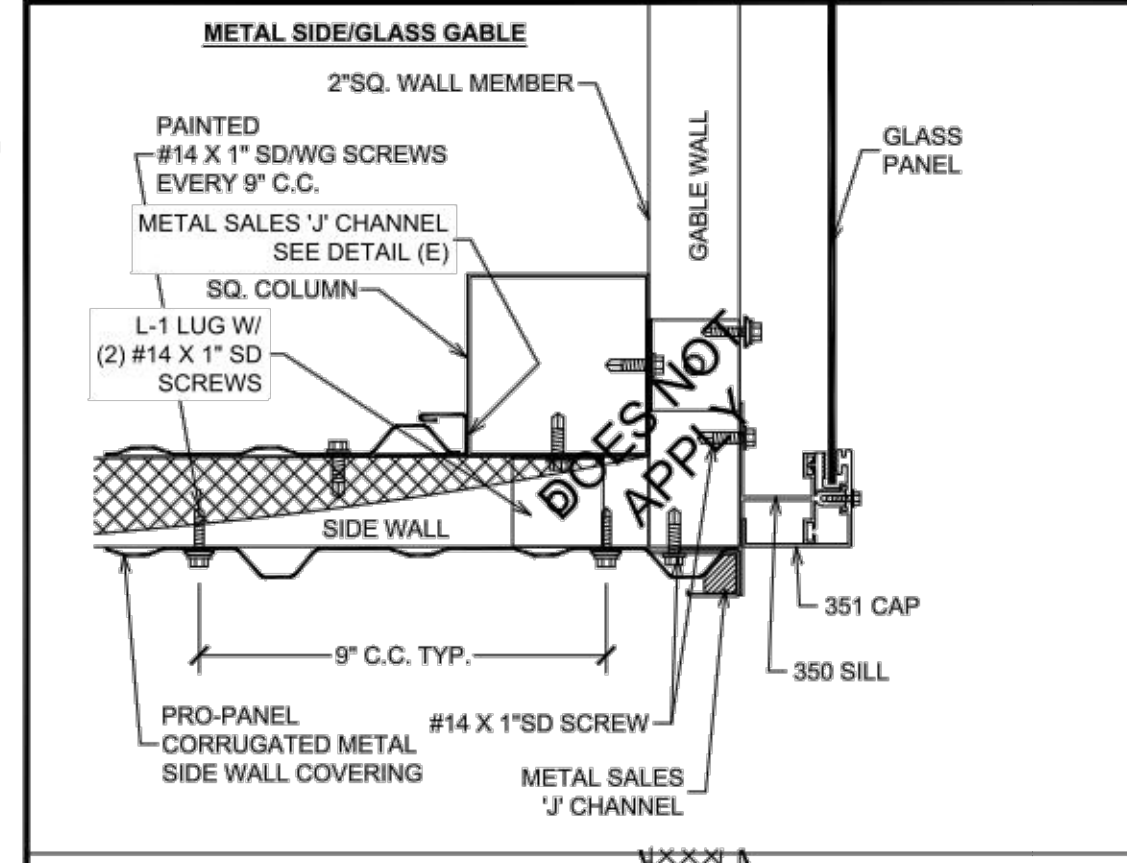
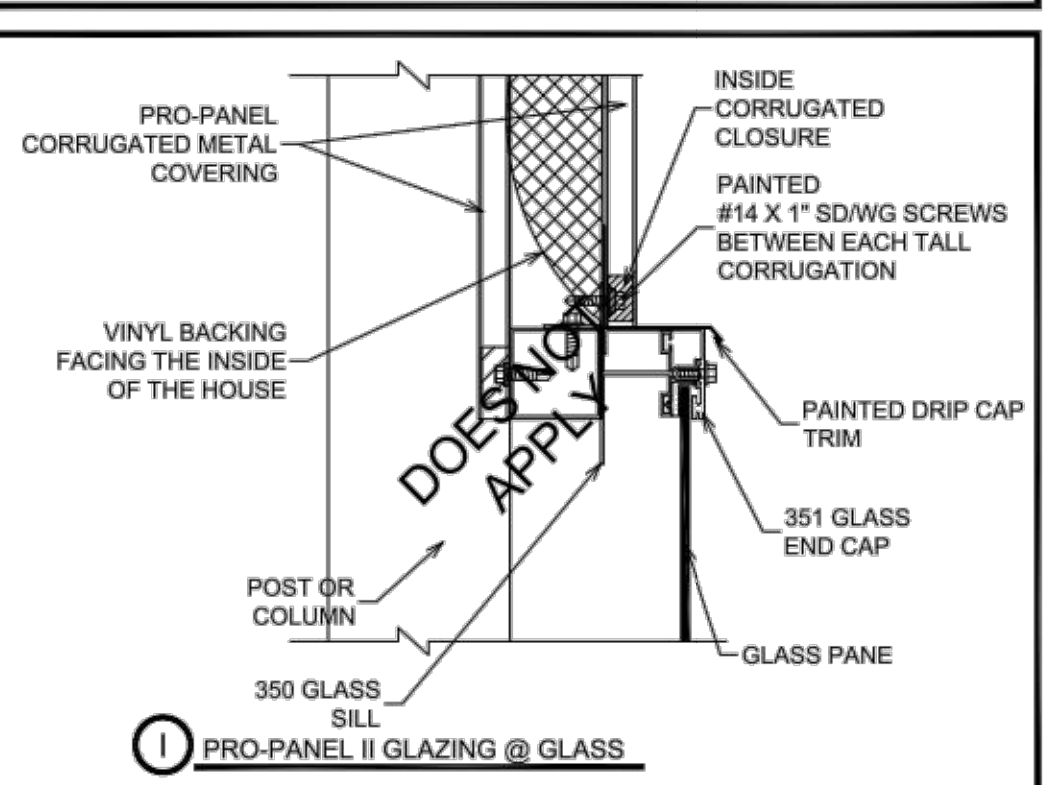
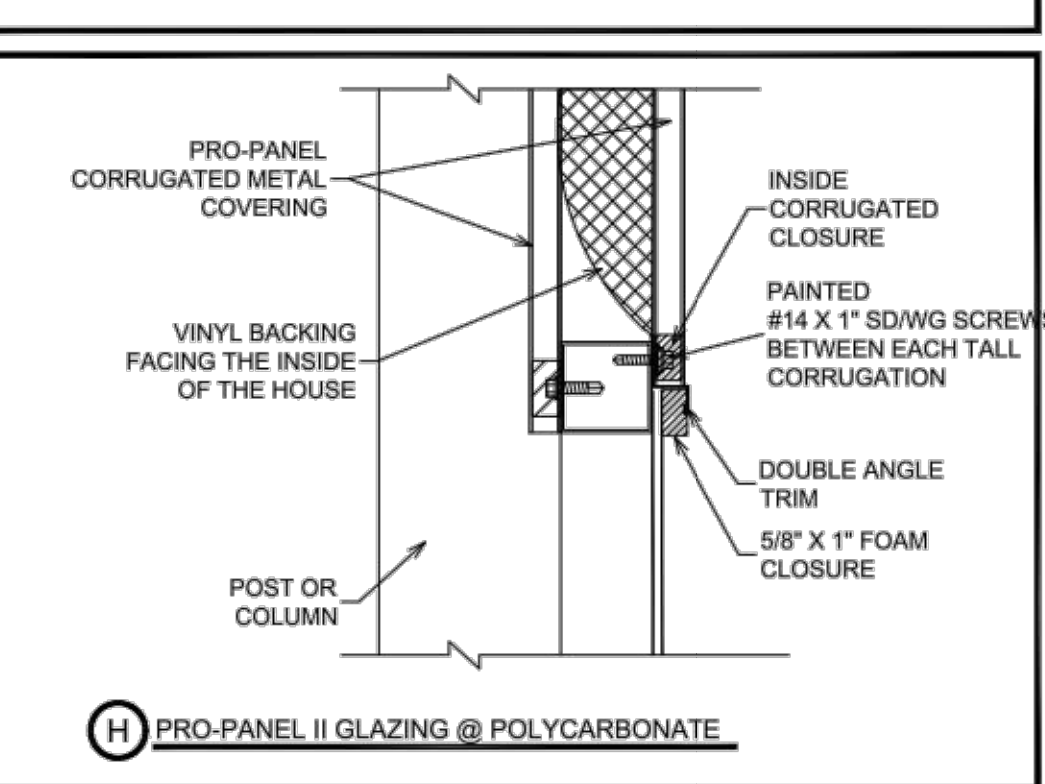
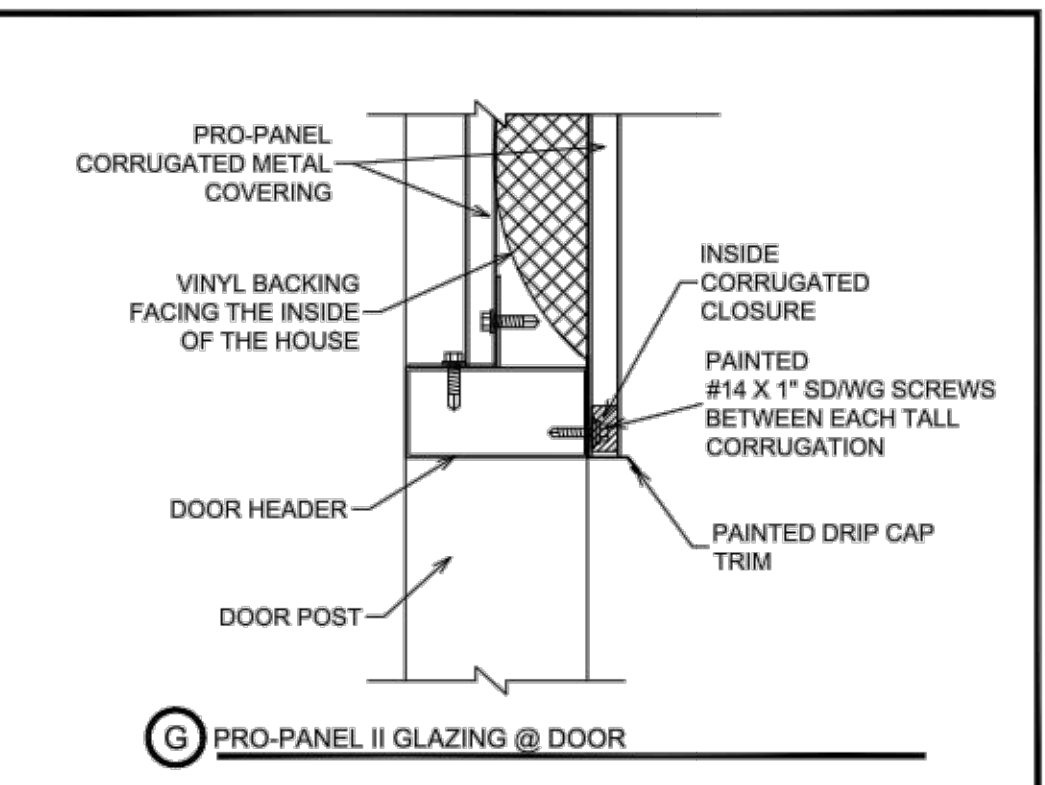
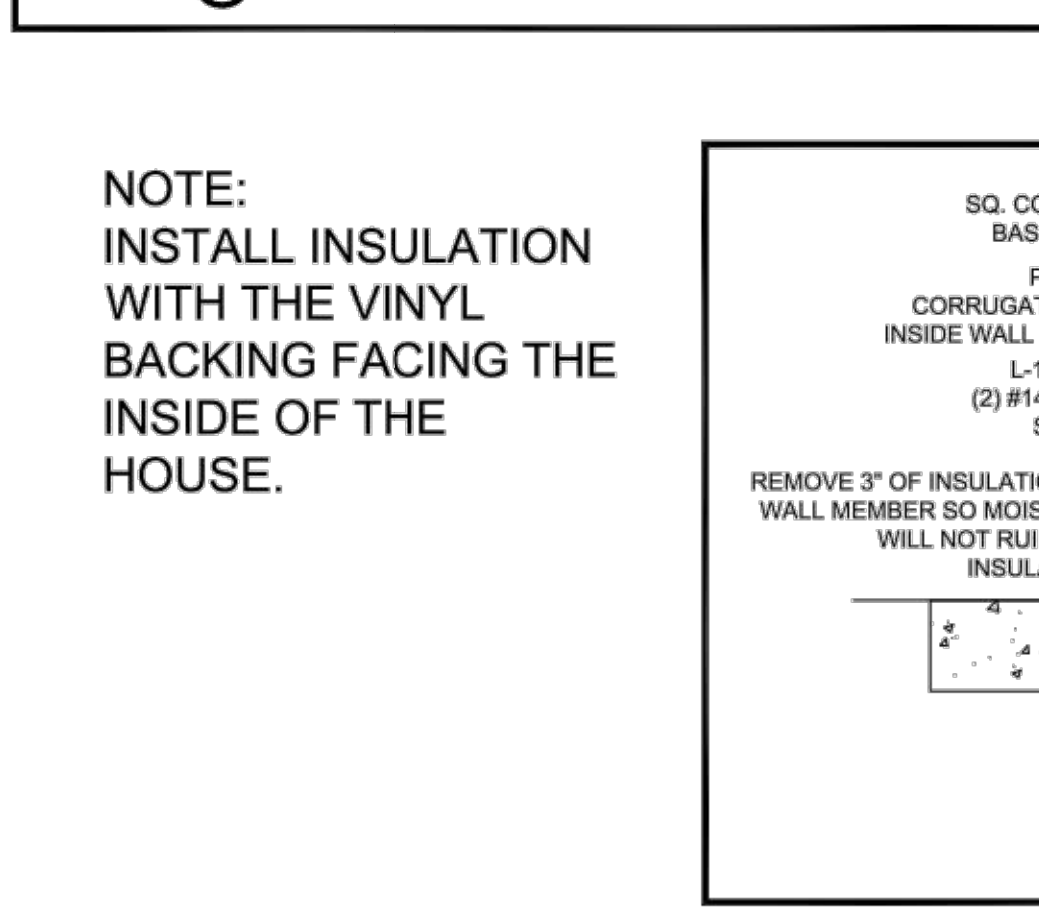
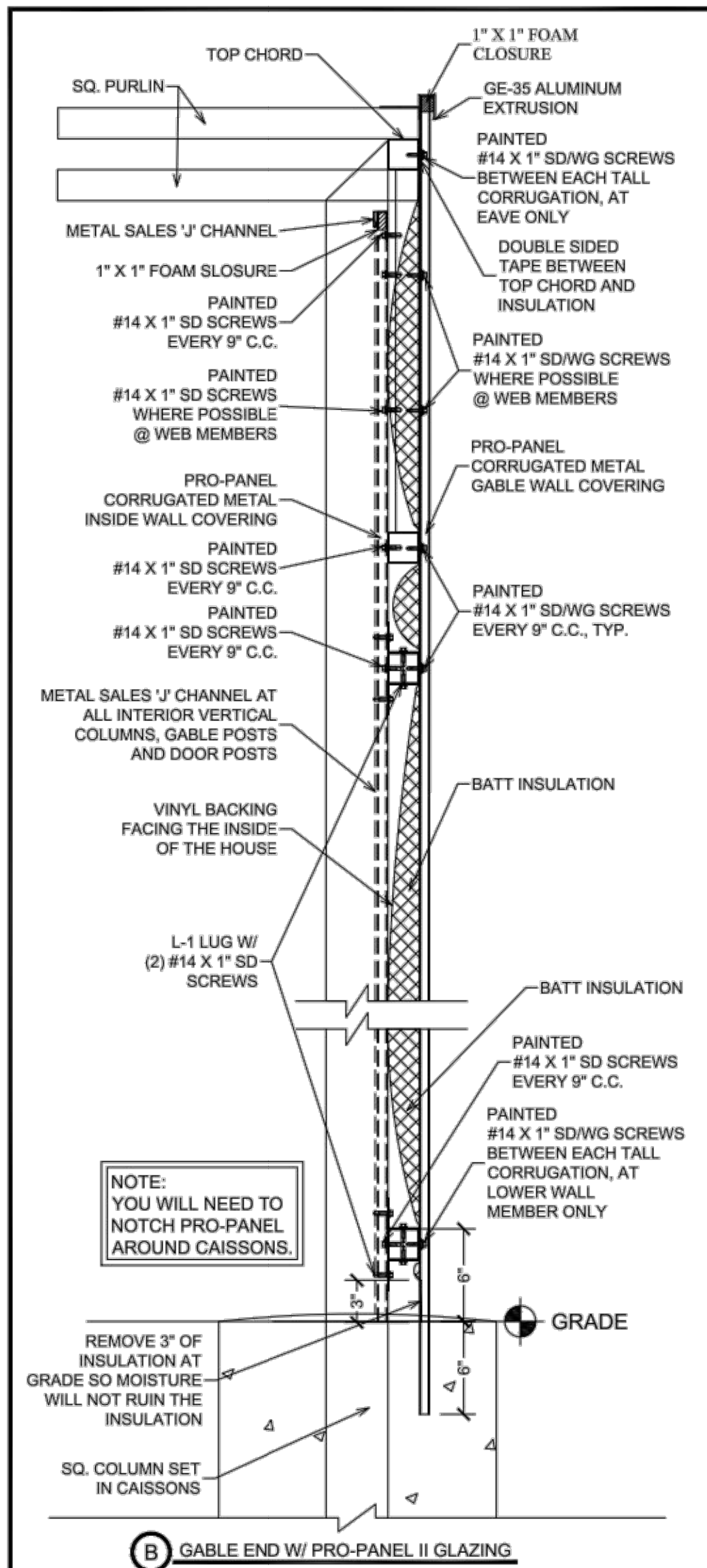
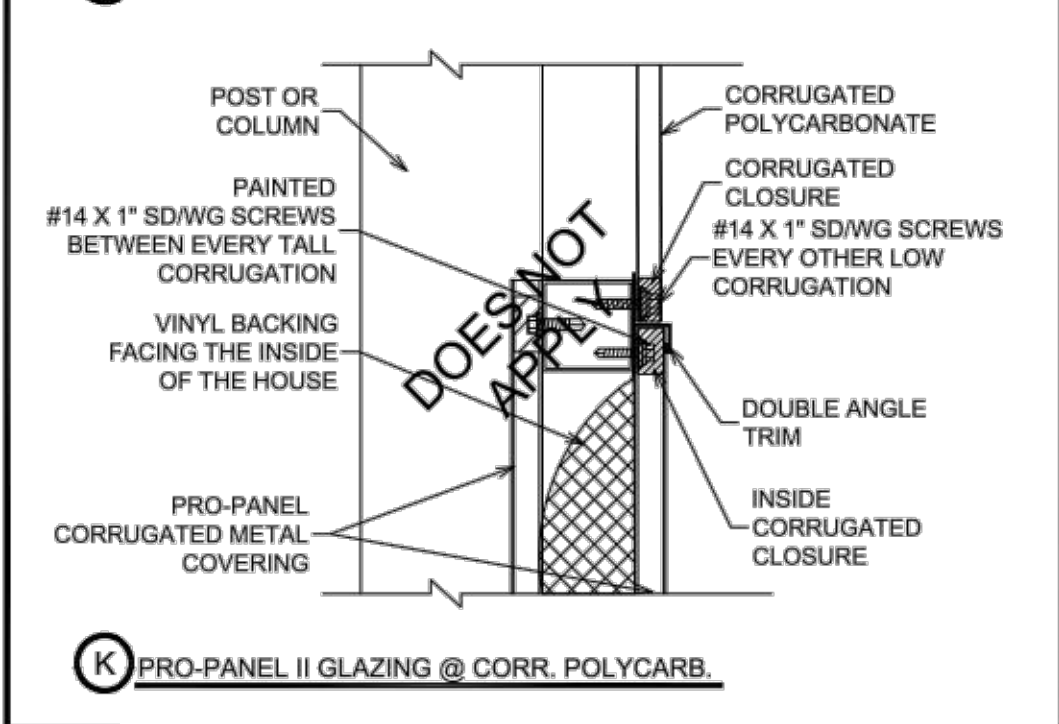
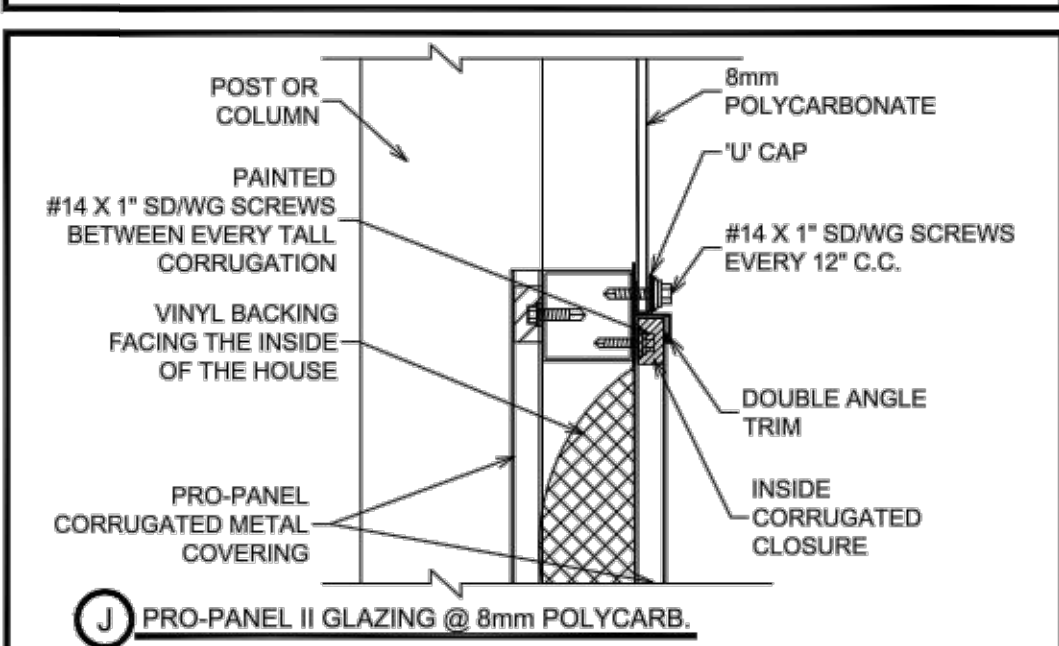
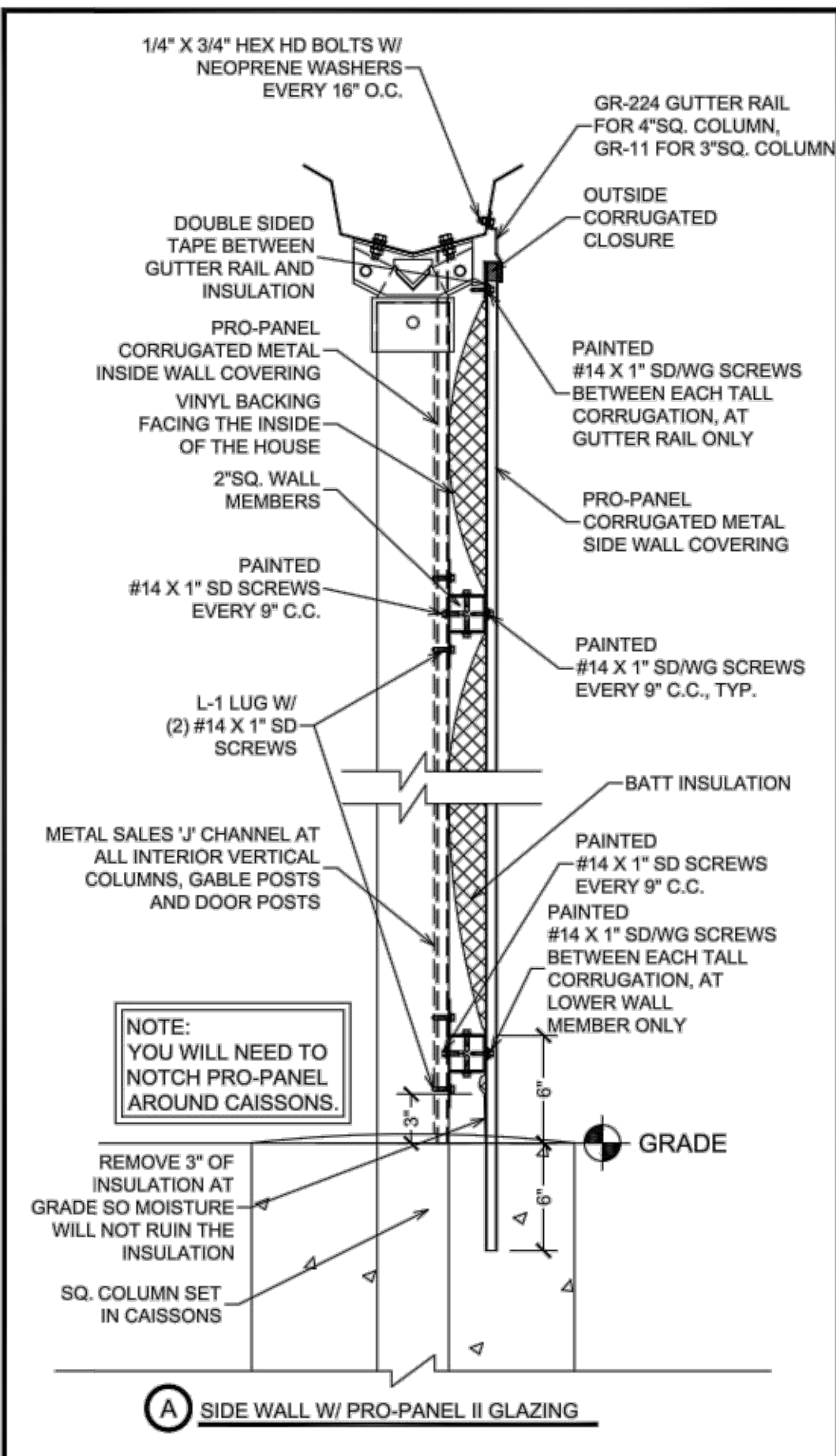
SHEET #:  
NEXUS JOB #:  
GH-6.1  
N36493

STRUCTURE ONLY



## SIDE AND GABLE END GLAZING (PRO-PANEL II) W/ INSULATION & INSIDE METAL

NO ROOF GLAZING IS SHOWN ON THESE DETAILS FOR CLARITY. SEE STEPS '1' & '2' FOR ROOF GLAZING INSTALLATION. BEFORE INSTALLING THE PRO-PANEL II SHEETS, YOU MUST INSTALL THE BATT INSULATION. MOUNT A METAL SALES 'J' CHANNEL UNDERNEATH THE UNDERSIDE METAL PANELS; SEE DETAIL 'B'. USE DOUBLE SIDED TAPE AT GUTTER RAILS AND TOP CHORDS. SEE DETAILS (A & B). ALSO SEE DETAILS (D & E) FOR INSULATION INSTALLATION AT CORNERS. REMEMBER TO INSTALL THE INSULATION WITH THE VINYL BACKING FACING THE INSIDE OF THE HOUSE. BEGIN GLAZING THE SIDE WALL BY INSERTING PANEL INTO THE GUTTER RAIL (GR-224 OR GR-11, SEE PARTS LIST FOR CORRECT PART); INSERT THE INSIDE CORRUGATED CLOSURE INTO THE GUTTER RAIL. USE #14 X 1"SD/WG SCREWS BETWEEN EACH TALL CORRUGATION. USE #14 X 1"SD/WG SCREWS EVERY 9" C.C. AT THE WALL MEMBER. SEE DETAILS (A & B). DETERMINE IF YOUR HOUSE IS ON A SLAB, IF SO, SEE DETAIL (C). IF YOUR HOUSE HAS PAINTED METAL CORNER FLASHING, SEE DETAIL (E). INSTALL PANELS FOR THE GABLE END AT THIS TIME AS WELL. SEE DETAIL (B). ALSO SEE YOUR MAIN DRAWING PLANS TO LOCATE DOORS AND EQUIPMENT. AFTER THE EXTERIOR METAL AND INSULATION IS INSTALLED, ATTACH THE INSIDE METAL TO THE INSIDE OF THE 2"SQ. WALL MEMBERS WITH #14 X 1"SD SCREWS EVERY 9" C.C. SEE DETAILS (A & B, D AND E). METAL SALES 'J' CHANNEL & TRIMS ARE NOT PROVIDED FOR DOORS, EQUIPMENT & BETWEEN POSTS UNLESS SPECIFIED.



NOTE:  
INSTALL INSULATION  
WITH THE VINYL  
BACKING FACING THE  
INSIDE OF THE  
HOUSE.



PROFESSIONAL ENGINEER SEAL

NEXUS

10983 LEROY DRIVE  
NORTHGLENN, COLORADO 80233  
303/457-9199 FAX 303/457-2801

HOME RANCH  
54880 COUNTY ROAD 129, CLARK, CO 80428  
(1) 36'-0" X 72'-0" VAIL STRUCTURE  
CORRUGATED METAL W/INSULATION & INSIDE METAL  
SIDES & ENDS GLAZING DETAILS CONT.

CREATION DATE:

07/22/20

DRAWN BY:

A. HATCHER

CHECKED BY:

S. ELLIOTT

SALESPERSON:

P. GOLDEN

REVISIONS:

SHEET # GH-6.2  
NEXUS JOB # N36493

STRUCTURE ONLY