

C AND L DRAFTING SERVICES
6304 RABBIT HOLLOW WAY
ELK GROVE, CA 95757
PHONE: (916) 705-2673
ATTN: CHRIS BOYER

ICELAND

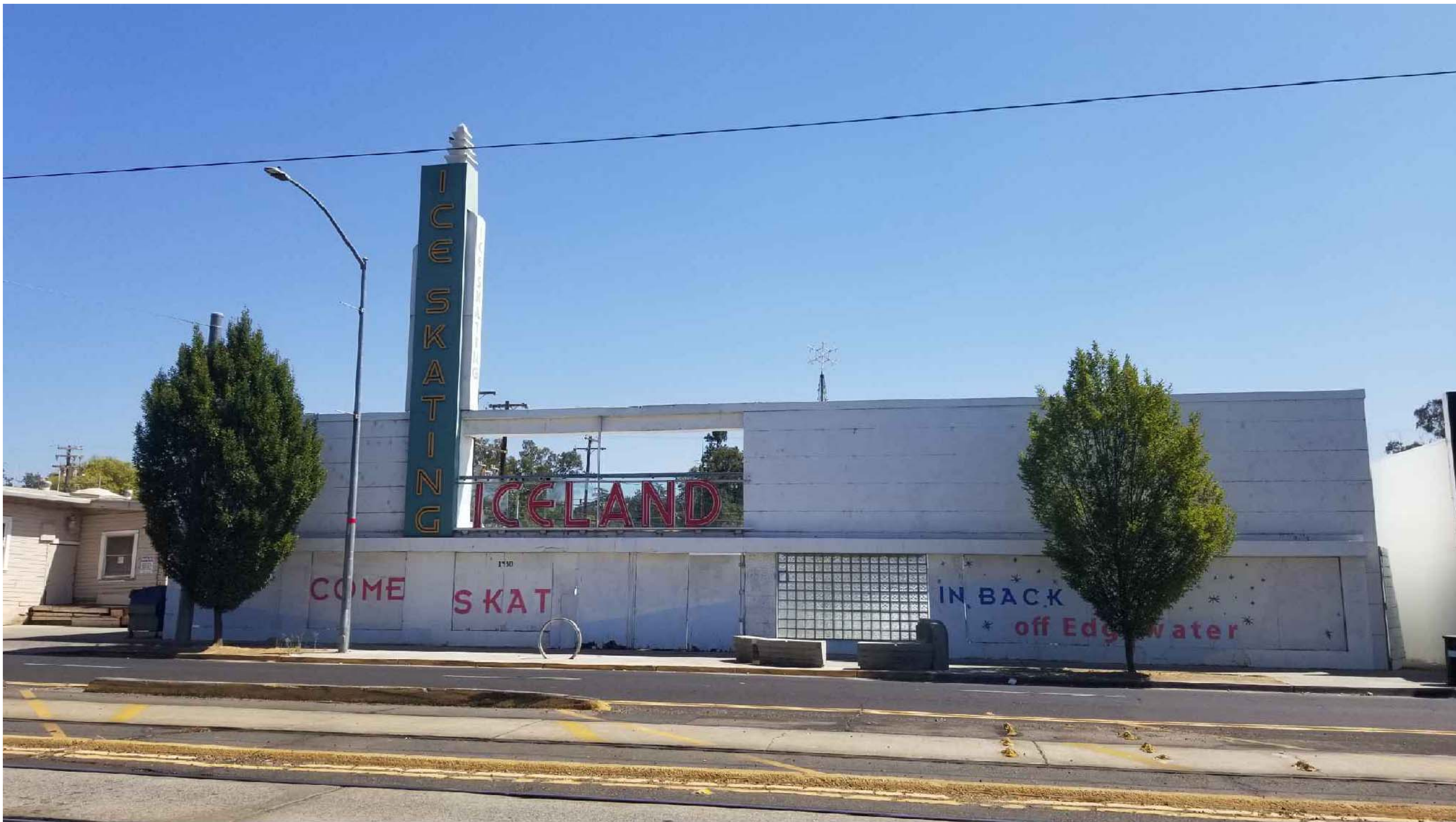
Ice Skating Rink

501(C)(3) NON-PROFIT SEASONAL

1430 DEL PASO BLVD.

SACRAMENTO CA

10	EXTENDING	HE	HEAR
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A0	COVER SHEET
A1	SITE PLAN
A2	FLOOR PLAN
A3	NORTH ELEVATION
A4	EAST ELEVATION
A5	WEST ELEVATION
A6	SOUTH ELEVATION
A7	SECTION F-F
A8	ROOF PLAN

SN1	STRUCTURAL NOTES AND SPECIFICATIONS
S1.0	FOUNDATION PLAN
SD1	STRUCTURAL DETAILS

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E1.1	ELECTRICAL POWER & LIGHTING
E2.1	ELECTRICAL TITLE 24 COMPLIANCE FORMS
E2.2	ELECTRICAL TITLE 24 COMPLIANCE FORMS

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2/11	ANCHOR ROD PLAN
3/11	ROOF FRAMING PLAN
4/11	ROOF SHEETING PLAN
5/11	ELEVATIONS
6/11	ELEVATIONS
7/11	SECTIONS
8/11	SECTIONS
9/11	DETAILS
10/11	DETAILS
11/11	DETAILS

FA0.1	COVER SHEET
FA1.0	FIRE ALARM SYSTEM

FP1.0	COVER SHEET
FP2.0	DETAILS

(NOT TO SCALE)



CODE INFORMATION:

BUILDING CODE	=	2022 CBC
PLUMBING CODE	=	2022 CPC
MECHANICAL CODE	=	2022 CMC
ELECTRICAL CODE	=	2022 CEC
FIRE CODE	=	2022 CFC
ENERGY	=	CEC TITLE 24

BUILDING CONSTRUCTION AND CLASSIFICATION

EXISTING BUILDING

BUILDING CONSTRUCTION TYPE: III-B

OCCUPANCY GROUP = M/S-1

(E) BUILDING SF = 13,500 SF

(N) BUILDING SF = 2,330 SF

TOTAL BUILDING SF = 15,830 SF

SPRINKLERED

ICELAND SKATING RINK IS A 13,50 SF (90' X 150') ENCLOSED ICE RINK BUILT IN 1940 IN ART DECO STREAMLINED STYLE, AND HOUSES AN OROUND 70' X 140' SKATING SURFACE. IN 2010 IT WAS DESTROYED BY AN ARSON FIRE. ALL THAT REMAINED STANDING AFTER THE FIRE WERE THE CONCRETE EXTERIOR WALLS. ICELAND HAS OPERATED AS A WINTER SKATING FACILITY SINCE THE FIRE.

THIS PROJECT WILL ENABLE YEAR-ROUND OPERATIONS AT ICELAND.
INSTALLATION OF THE NEW CANOPY AND FIRE SPRINKLERS.
ADD 2,330 SF TO BUILDING.

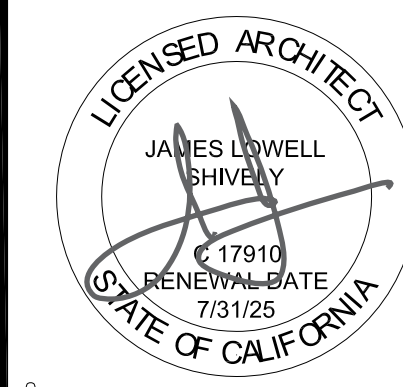
PROJECT ADDRESS:
1430 DEL PASO BLVD.
SACRAMENTO, CA 95815

APN - 275-0125-007-0000
275-0125-008-0000

ZONING/GENERAL PLAN
C-2-SPD - GENREAL COMMERCIAL/SPECIAL

SITE AREA
8,276 PARCEL & 7,200 FROM 15,000 SF
PARCEL - 275-0125-008-0000

AMERICAN ICELAND LLC
539 SOUTHGATE RD.
SACRAMENTO, CA 95815
CONTACT - RON KERTH
PHONE - 916-799-312
EMAIL - rob@keth.us



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ICELAND SKATING RINK
1430 DEL PASO BLVD.

PROJECT	DATE
21036	11-26-21

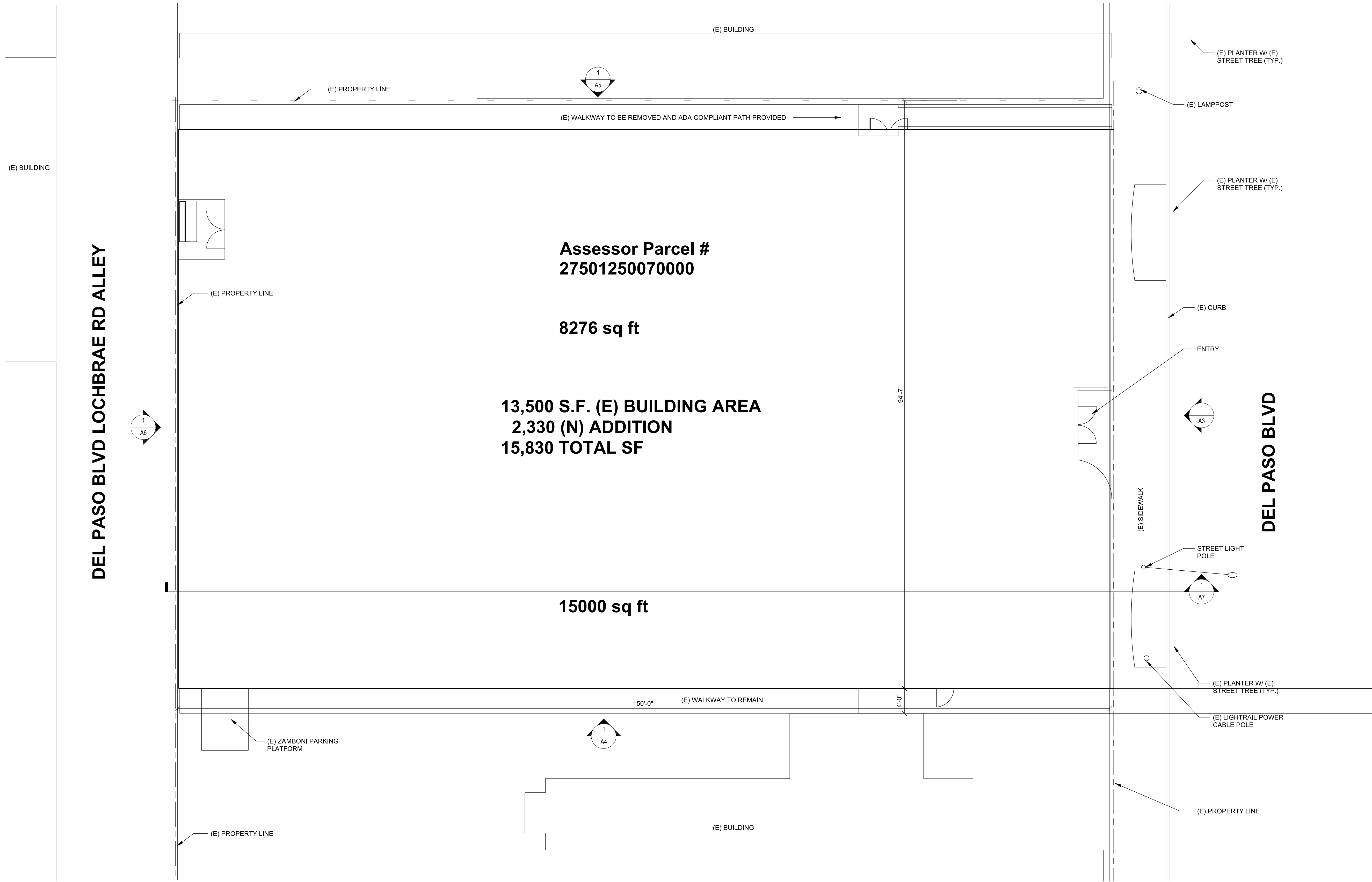
REVISÉ

SHEET TITLE

COVER
SHEET

SHEET

A0



 1 CUP SITE
SCALE: 1/8" = 1'-0"



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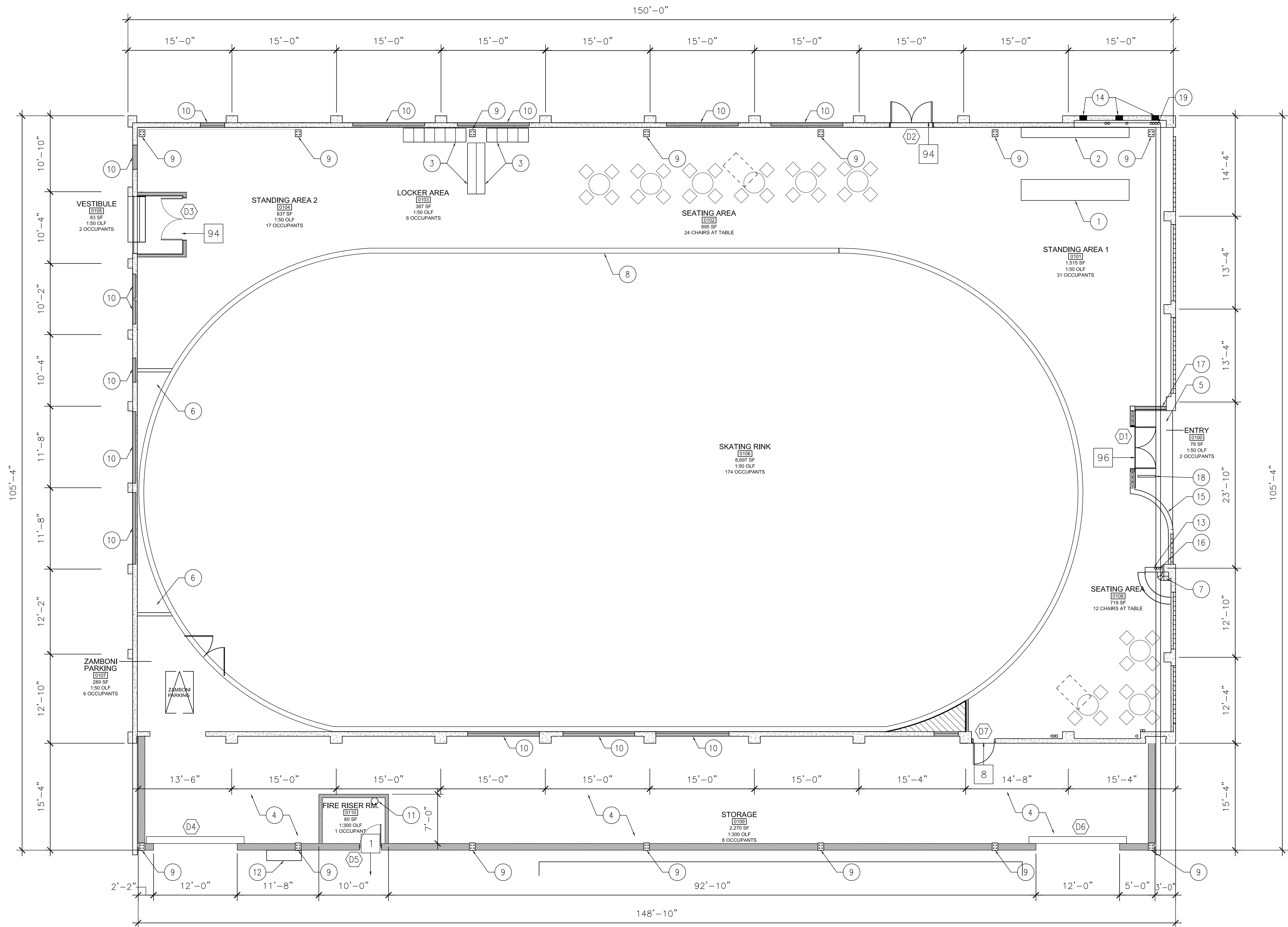
ICELAND SKATING RINK
1430 DEL PASO BLVD.

PROJECT: 21036
DATE: 11-26-21

REVISED

SHEET TITLE
SITE PLAN

SHEET
A1



1 FLOOR PLAN
1/8" = 1'-0"

- # FLOOR PLAN SHEET NOTES:**
- (E) SKATE RENTAL COUNTER
 - (E) SKATE STORAGE RACKS
 - (E) LOCKERS
 - (N) CONC. SLAB TO BE FLUSH W/ ADJACENT FLOOR.
 - (E) COVERED ENTRANCE
 - (E) SNOW PIT
 - (E) CONC. HEARTH TO REMAIN
 - (E) DASHER BOARDS TO REMAIN – TYP.
 - (N) TRUSS FOUNDATION ASSEMBLY – TYP.
 - (E) WOOD FRAMED INFILL PAINTED TO MATCH ADJACENT WALL, TITANIUM WHITE – TYP.
 - (N) FIRE RISER
 - (N) ELECTRICAL SERVICE
 - (E) CONC. WING WALL TO REMAIN REPAIR EXPOSED END OF WALL TO ORIGINAL SURFACES
 - (3) 12"X12" VENTS INFILL W/ CONCRETE
 - (E) CONC. CURB TO REMAIN SACK & PATCH AS REQUIRED TO RECEIVE NEW FINISHES AND NEW GLASS BLOCK WALL
 - (E) PIPES
 - (E) CONC. CURB TO REMAIN SACK & PATCH AS REQUIRED TO RECEIVE NEW WALL FINISHES
 - (E) RAILING
 - (E) CONDUITS

DOOR SCHEDULE

NUMBER	NEW OR EXISTING	SIZE	MATERIAL	FRAME	HARDWARE
D1	(N)	(2)36"x84"	WOOD	HM	U SHAPED HARDWARE ON PULL SIDE & PANIC BAR ON PUSH SIDE.
D2	(N)	(2)36"x84"	WOOD	HM	PANIC BAR ON PUSH SIDE
D3	(N)	(2)36"x84"	WOOD	HM	PANIC BAR ON PUSH SIDE
D4	(N)	120"x108"	METAL	HM	ROLL UP DOOR
D5	(N)	36"x84"	METAL	HM	LEVER TYPE HARDWARE
D6	(N)	120"x108"	METAL	HM	ROLL UP DOOR
D7	(N)	36"x84"	WOOD	HM	LEVER TYPE HARDWARE

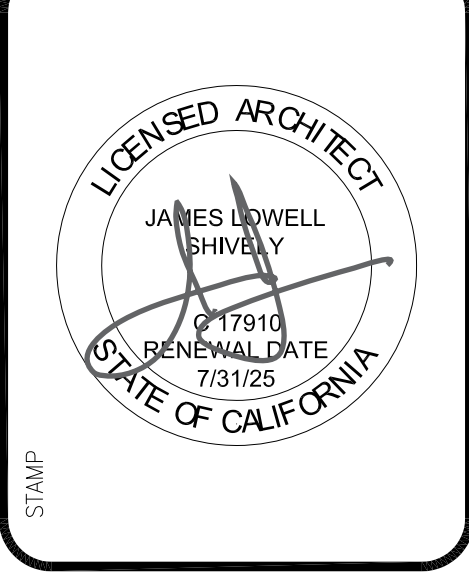
- NOTES:**
- DOORS SHALL HAVE HARDWARE MOUNTED BETWEEN 34"-44" A.F.F. PER CBC 2022 11B-404.2.7. MAXIMUM UNLATCHING FORCE SHALL NOT EXCEED 5 LBS PER CBC 2022 1010.1.3 & 11B-404.2.9.
 - ALL DOORS SHALL BE NO MORE THAN 1/2" HEIGHT FROM THE FLOOR TO THE TOP OF THE THRESHOLD PER CBC 2022 11B-404.2.5. SEE A7.1-5 FOR DETAIL AT STOREFRONT DOOR & A7.1-10 FOR DETAIL AT METAL DOOR.
 - RESTROOM & EXTERIOR DOORS SHALL HAVE SELF CLOSER INSTALLED.
 - DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90°, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12° FROM THE LATCH IS 5 SECONDS MINIMUM PER CBC 2022 11B-404.2.8.1, 11B-404.2.8.2 & CBC 11B-206.5.2.

- GENERAL NOTES**
- ALL DOOR AND WINDOW FRAMES SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS AND STANDARDS.

OCCUPANCY LOAD & EXITING CALC.

ROOM NAME	ROOM #	TOTAL S.F.	O.L.F.	OCCUPANTS
ENTRY	0100	= 78	1/50	2
STANDING AREA 1	0101	= 1,515	1/50	31
SEATING AREA	0102	= 895	FIXED SEATS	24
LOCKER AREA	0103	= 387	1/50	8
STANDING AREA 2	0104	= 837	1/50	17
VESTIBULE	0105	= 83	1/50	2
SKATING RINK	0106	= 8,697	1/50	174
ZAMBONI PARKING	0107	= 289	1/50	6
SEATING AREA	0108	= 719	FIXED SEATS	12
STORAGE	0109	= 2,270	1/300	8
FIRE RISER RM.	0110	= 60	1/300	1
TOTAL TENANT AREA		15,830		285

MINIMUM # OF EXITS REQUIRED = 2 EXIT (SECTION 1015.1)
ACTUAL # OF EXITS PROVIDED = 3 EXITS
MINIMUM EXIT WIDTH REQUIRED = 72 INCHES
ACTUAL EXIT WIDTH PROVIDED = 216 INCHES



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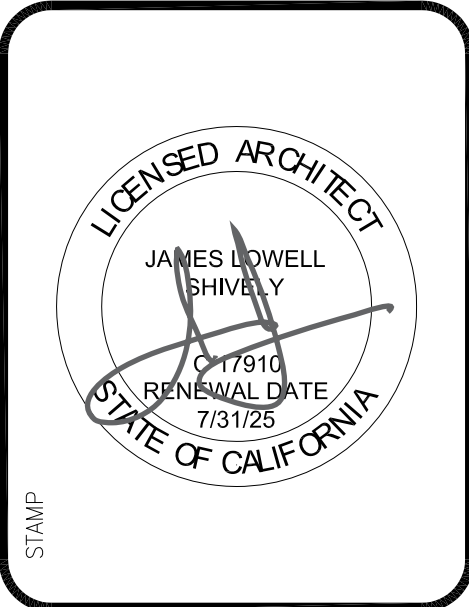
SACRAMENTO, CA
ICELAND SKATING RINK
1430 DEL PASO BLVD.

PROJECT: 21036 DATE: 11-26-21

REVISED:

SHEET TITLE:
FLOOR PLAN

SHEET:
A2



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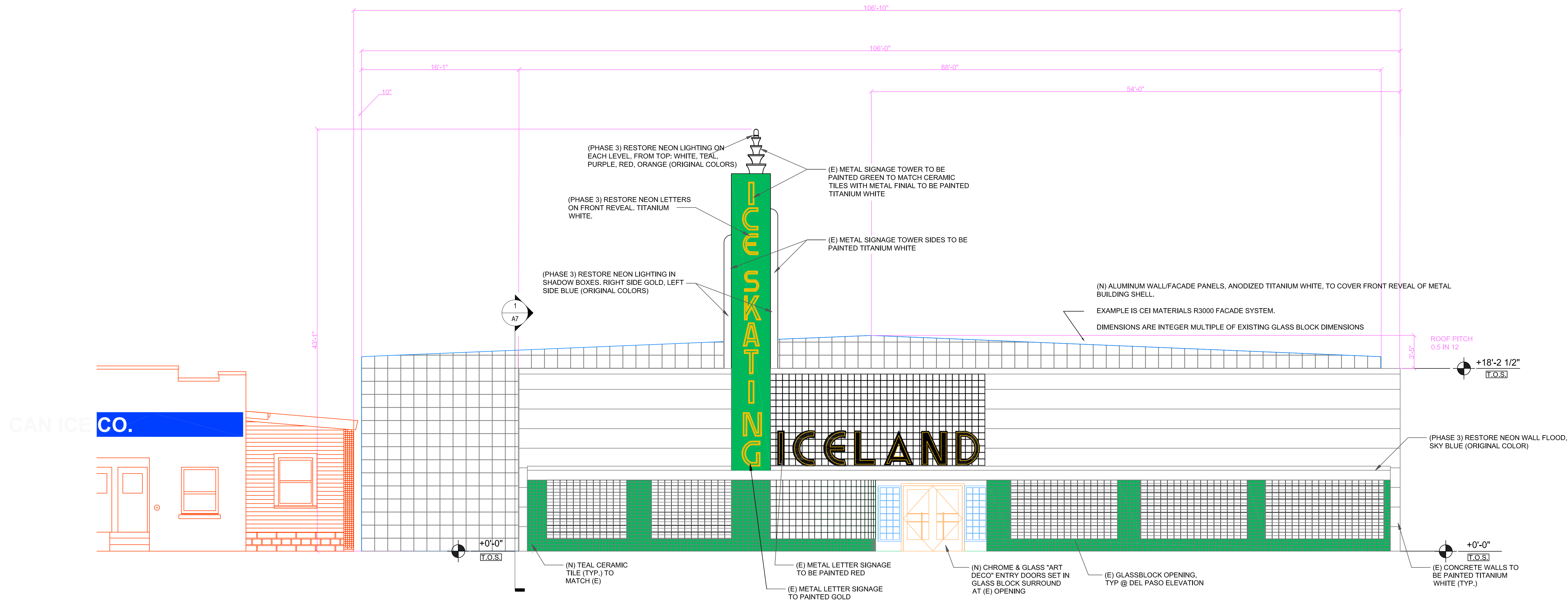
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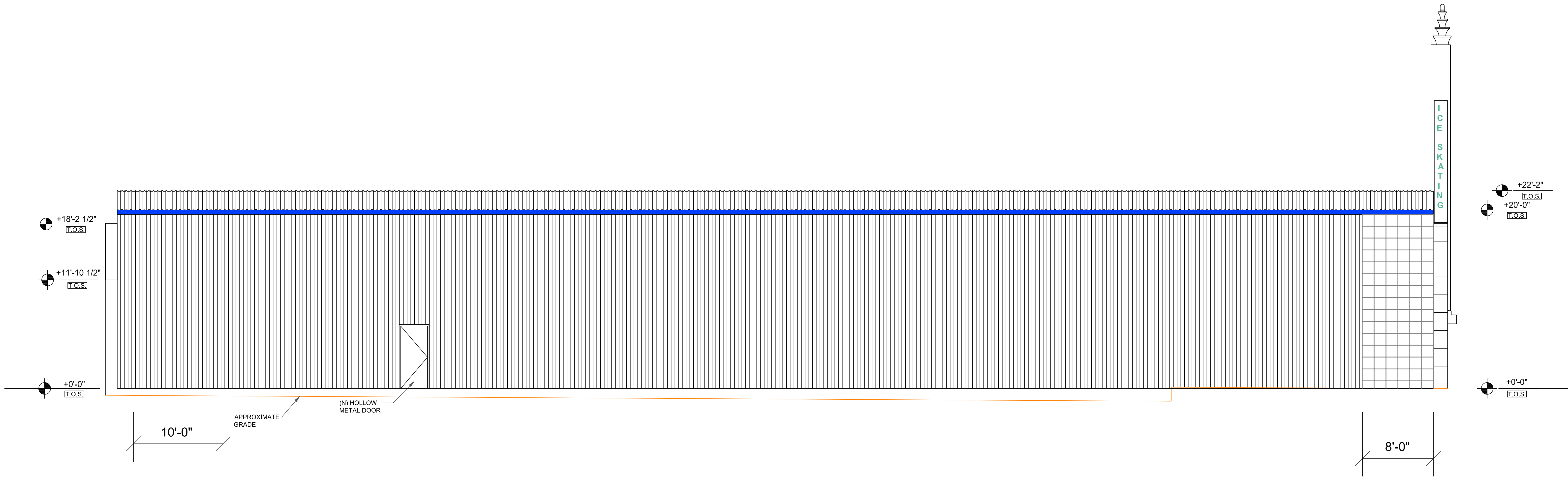
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SHEET TITLE
NORTH ELEVATION

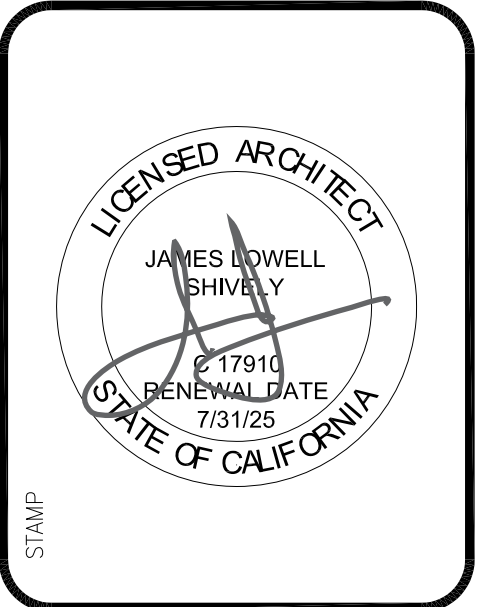
SHEET
A3



1 NORTH ELEVATION, DEL PASO BOULEVARD
SCALE: 3/16" = 1'-0"



1 EAST ELEVATION
SCALE: 3/16" = 1'-0"



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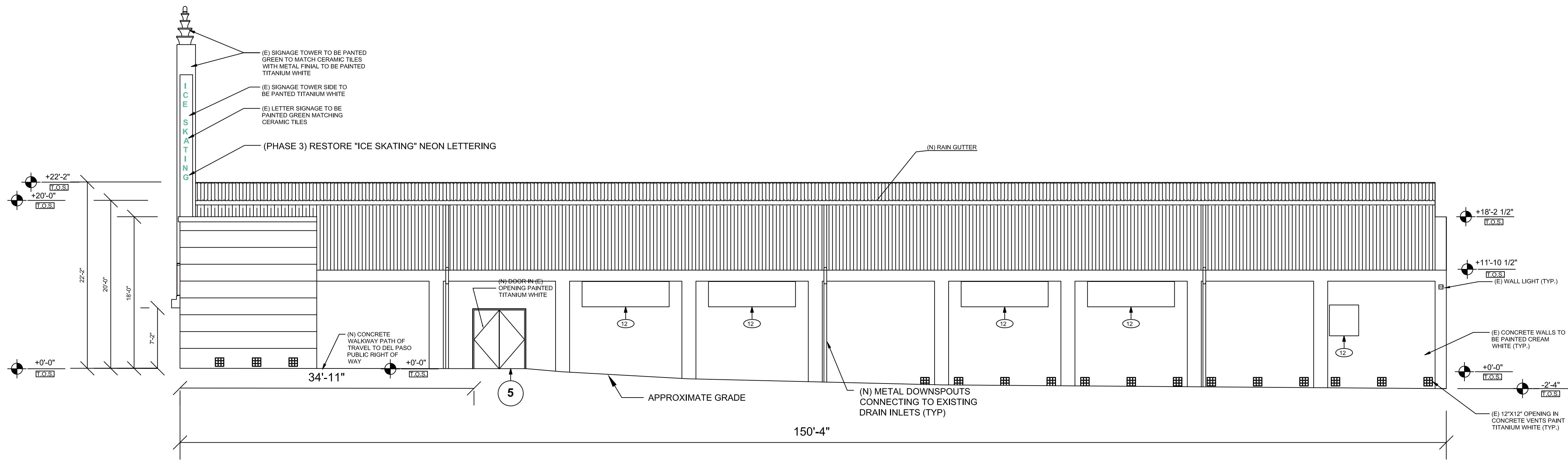
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ICELAND SKATING RINK
1430 DEL PASO BLVD.

PROJECT	DATE
21036	11-26-21

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SHEET TITLE
EAST ELEVATION

SHEET
A4



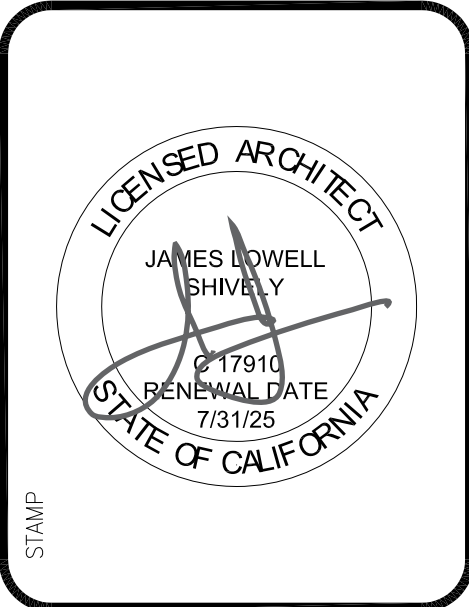
NOTES

12 (E) WOOD FRAMED INFILL PAINTED TO MATCH ADJACENT WALL, TITANIUM WHITE TYP.

DOORS

5 (N) 3'-0" x 6'-8" DOOR IN (E) OPENING HOLLOW METAL DOOR / FRAME WITH PANIC HARDWARE

1 WEST ELEVATION
SCALE: 1/8" = 1'-0"



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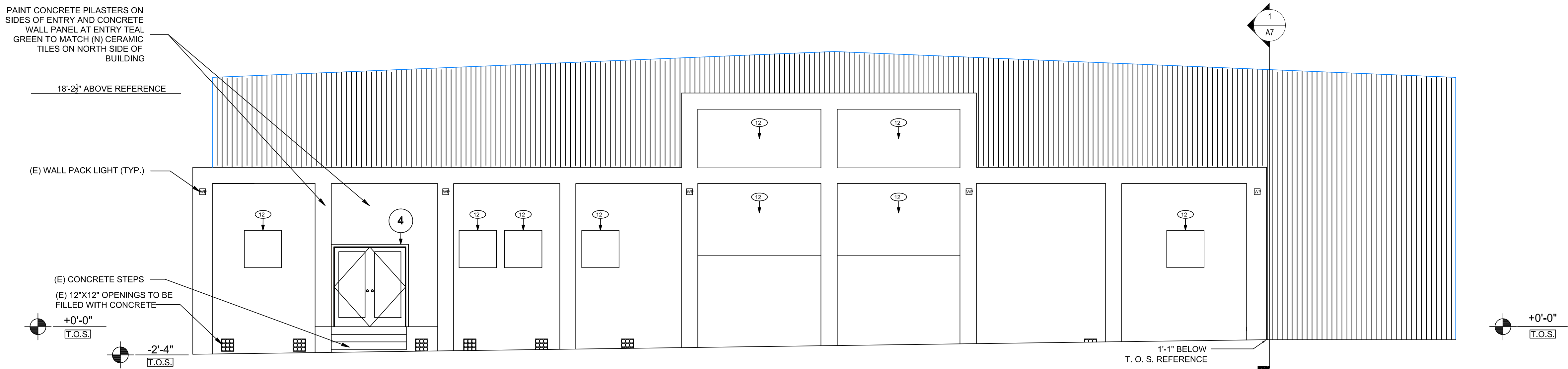
ICELAND SKATING RINK
1430 DEL PASO BLVD.

PROJECT 21036 DATE 11-26-21

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SHEET TITLE
WEST ELEVATION

SHEET
A5



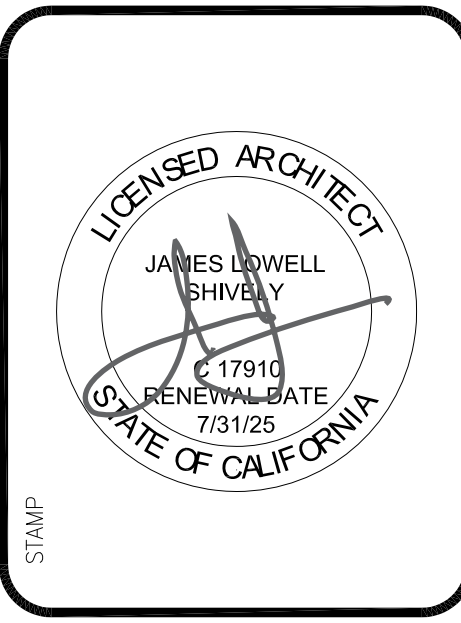
NOTES

(12) (E) WOOD FRAMED INFILL PAINTED TO MATCH ADJACENT WALL, TITANIUM WHITE TYP.

DOORS

(4) (N) 3'-0" x 6'-8" DOOR IN (E) OPENING HOLLOW METAL DOOR / FRAME WITH PANIC HARDWARE

1 SOUTH ELEVATION (DEL PASO BOULEVARD / LOCHBRAE ROAD ALLEY)
SCALE: 3/16" = 1'-0"



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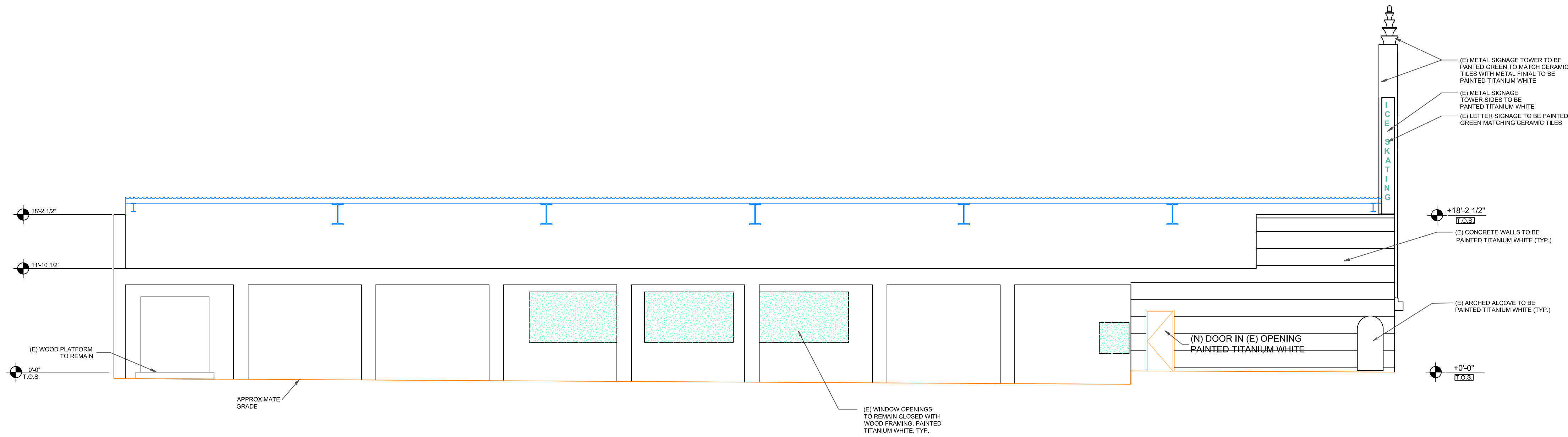
ICELAND SKATING RINK
1430 DEL PASO BLVD.

PROJECT	DATE
21036	11-26-21

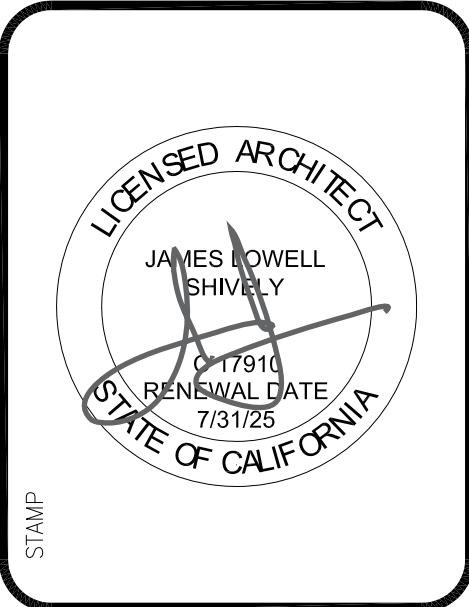
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SHEET TITLE
SOUTH ELEVATION

SHEET
A6



1 SECTION F-F
SCALE: 1/8" = 1'-0"



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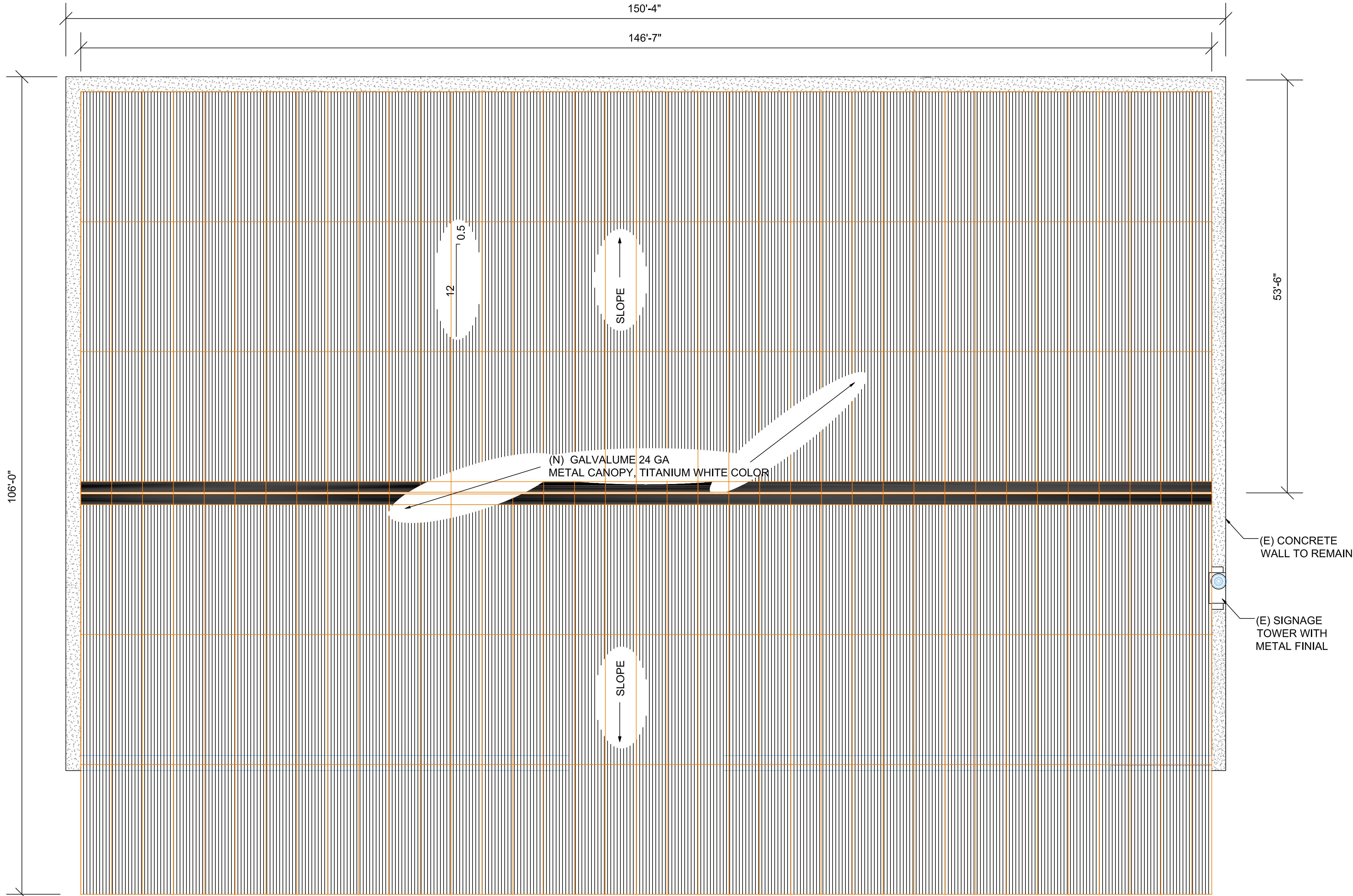
ICELAND SKATING RINK
1430 DEL PASO BLVD.
SACRAMENTO, CA

PROJECT	DATE
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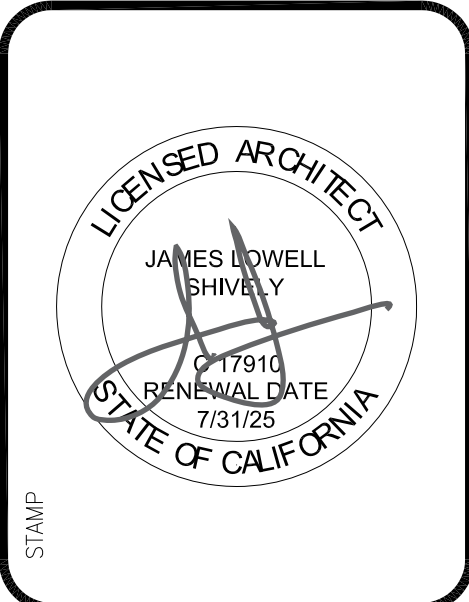
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SHEET TITLE
SECTION
F-F

SHEET
A7



1 ROOF PLAN
SCALE: 1/8" = 1'-0"



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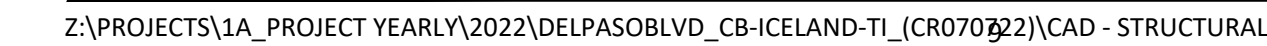
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1430 DEL PASO BLVD.

PROJECT
21036
DATE
11-26-21




REVISED

SHEET TITLE
ROOF
PLAN

SHEET
A8



GENERAL FOUNDATION NOTES	
1.	POSTS SHOWN ON THE FOUNDATION PLAN ARE THOSE DIRECTLY CONNECTED TO THE FOUNDATION WITH A BASEPLATE.
2.	SLAB REINFORCEMENT SHALL BE PROVIDED EACH WAY, AS INDICATED ON THE PLANS, IN THE MIDDLE THIRD OF SLAB.
3.	CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL MEASUREMENTS AGAINST THE ARCHITECTURAL PLAN SET. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE EOR AND DESIGNER BEFORE FORMING AND/OR POURING CONCRETE.

FOUNDATION LEGEND	
	(E) STEMWALL AND FOOTING - TO REMAIN
	(N) FOOTING - SEE FOOTING SCHEDULE FOR DIMENSIONS AND REINFORCEMENT.
	POST - SEE IN VIEW FOR POST SIZE AND TYPE.

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FOUNDATION PLAN

1430 DEL PASO BLVD,
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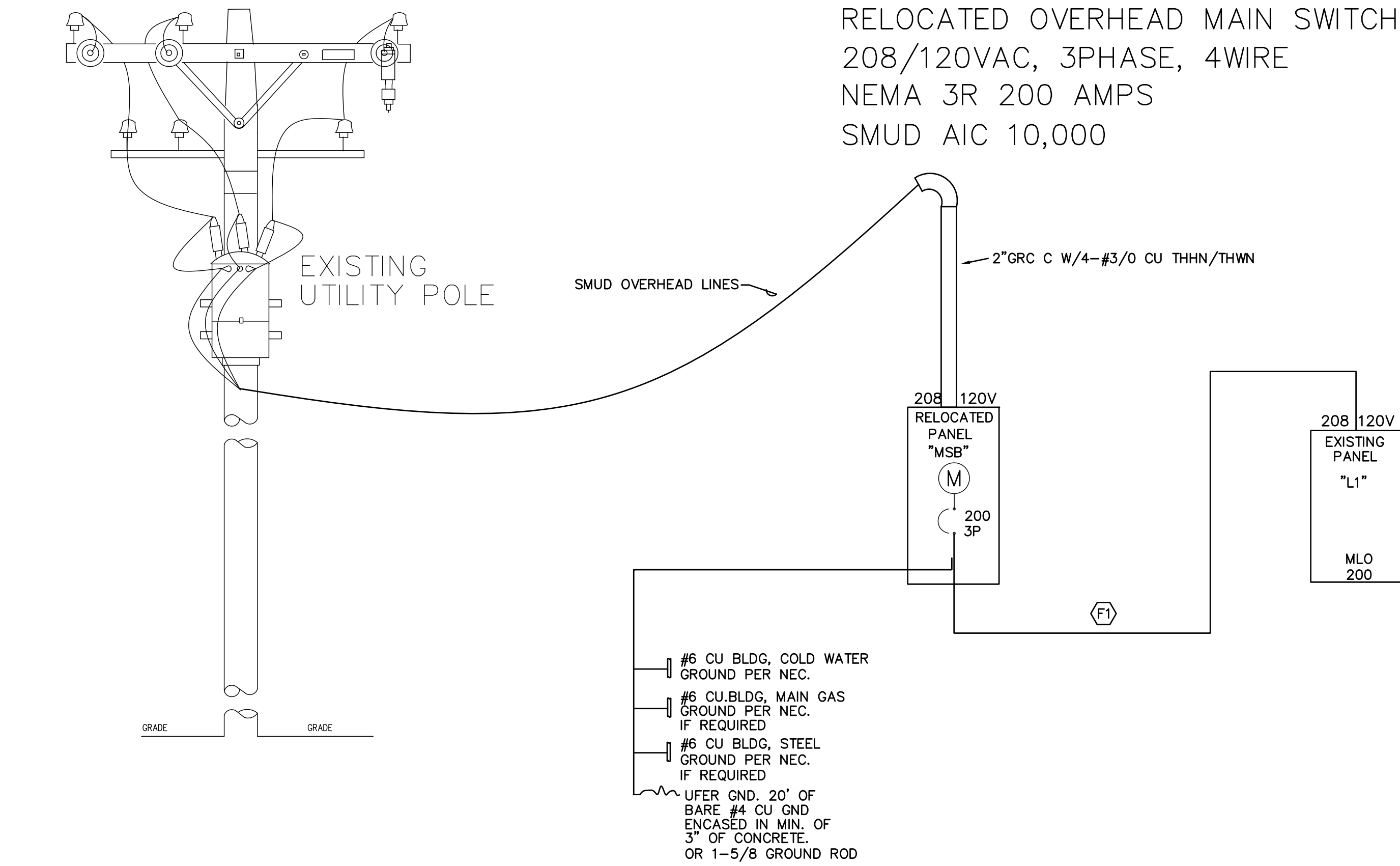
TITLE:

ADDRESS:



NO.	REVISIONS
△	
△	
△	
△	
SCALE:	AS NOTED
DATE:	4/27/2023
DESIGNED BY:	T.HAMEL
DRAWN BY:	M.LAMONT
REVIEWED BY:	W.CULLUMBER
JOB NO:	CR102121
SHEET NO.	

S1.0



VOLTAGE DROP CALCULATION			F1
LENGTH: 50'	VOLTAGE: 208V		
THHN @ .75	PHASE: 3 PH		METER/ MAIN TO "L1"
AMPS: 160	WIRE SIZE: 2-3/0CU		
kVA: 57.6			
<u>VOLTAGE DROP</u>	<u>% VOLTAGE DROP</u>		
1.1V DROP	0.5% DROP		
FEEDER			
F1 (2)2". W/(4) 3/0 THHN/THWN CU.			
& (1)#6 CU. GND. IN EACH			

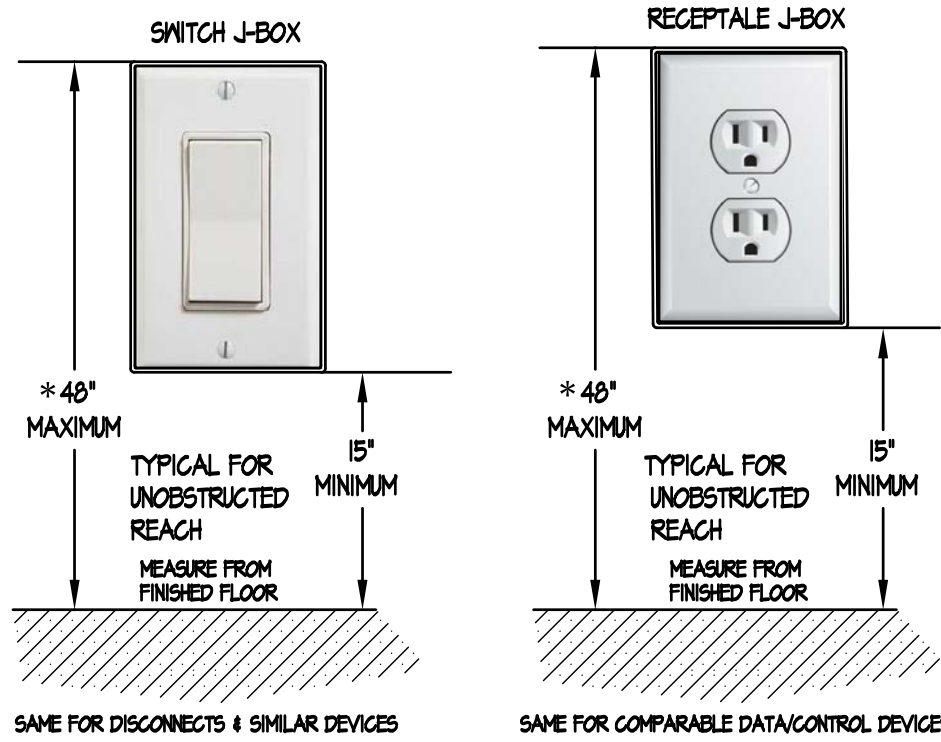
A
EO.1

ONE LINE DIAGRAM

200AMP 208/120VAC 3PH 4W

ELECTRICAL SERVICE UPGRADE NO SCALE
1434 DEL PASO BLVD.
SACRAMENTO CA 95815

(EXISTING)	Allowed Load: 120 amps	Panel loaded at 37%	% Phase Unbalance <30% Loaded
PANEL: <E> L1	VOLTAGE: 120/208V, 3P, 4W	BUS: 200A	MOUNT: SURFACE
TYPE: LOAD CENTER	AIC: 10K MINIMUM	MADE: NEMA 1	TYPE: NEMA 1
NOTES: EXISTING PANEL	TOP FIELD	Print Date:	August 9, 2024
LOAD	CB	NO	A
<E> Sign Circuit	C	0.3	20/1
<E> Sign Circuit	C	0.3	20/1
Front Lights Glass Blocks	C	0.4	20/1
Spare		1.0	7 A
<E> LOC Time Clock	C	0.2	20/1
<E> Exterior Lights	C	0.9	20/1
<E> Recepts	R	0.5	20/1
<E> Exterior Lights	C	1.0	20/1
<E> Lights & EM lights/ Exits	C	0.5	20/1
Rink Lights	C	0.8	20/1
Rink Lights	C	0.8	20/1
Rink Lights	C	0.8	20/1
Lights Storage 109	C	0.8	20/1
	PFB	20	
	PFB	31	A
	PFB	33	B
	PFB	35	C
	PFB	37	A
	PFB	39	B
	PFB	41	C
*** Provide lock on device and paint red			
LOAD CALCULATIONS:			
LEGEND			
16.2 Total kVA			
45 Amps at VOLTAGE: 120/208V, 3P, 4W			
L1			



SEE COMMENTS BELOW

SEE COMMENTS BELOW

FOR SWITCHES, CONTROLS AND RECEPTABLES OVER COUNTERS OR OBSTRUCTIONS AND UNOBSTRUCTED FORWARD REACH REFER TO CEC 204 INFORMATIVE SECTION J ADA STANDARDS FOR ACCESSIBLE DESIGN FOR LAYOUT OF ALL DEVICES.

DECORA SWITCHES AND RECEPTABLES NOT REQUIRED

WALL MOUNTED ELECTRICAL DEVICES TO COMPLY WITH CEC 110-308

ELECTRICAL RECEPTACLE AND SWITCH INSTALLATION REQUIREMENTS

SCALE: NOT TO SCALE

GENERAL NOTES

- THESE GENERAL NOTES ARE INTENDED TO ASSIST THE CONTRACTOR DURING EXECUTION OF THE WORK. HOWEVER, THEY DO NOT COVER ALL OF THE SPECIFICATION REQUIREMENTS.
- INSTALL ALL EQUIPMENT, CONDUITS, OUTLETS, AND FIXTURES IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES(NEC).
- DO NOT SCALE ELECTRICAL PLANS FOR FIXTURES, DEVICE, OR APPLIANCE LOCATIONS. USE FIGURED DIMENSIONS IF GIVEN OR CHECK ARCHITECTURAL PLANS.
- ALL MATERIAL AND EQUIPMENT IS TO BE LISTED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND NEC 110-3.
- MOUNT ALL RECEPTABLES OUTLETS AT +15" MIN. UNLESS OTHERWISE INDICATED. COORDINATE WITH ARCHITECTURAL DRAWINGS AND ADA REQUIREMENTS.
- MOUNT ALL TOGGLE SWITCHES AT (TOP)48" UNLESS OTHERWISE INDICATED. COORDINATE WITH ARCHITECTURAL DRAWINGS AND ADA REQUIREMENTS.
- TOTAL IMPEDANCE, CIRCUIT BREAKERS, PANELS, CONDUCTORS, AND ALL OTHER CIRCUIT COMPONENTS AND SHORT CIRCUIT CURRENT RATINGS SHALL BE COORDINATED SO THAT FAULTS CAN BE CLEARED WITHOUT EXTENSIVE DAMAGE TO CIRCUIT COMPONENTS PER CEC 110.10.
- ALL ELECTRICAL PANEL BOARDS SWITCHBOARDS, INDUSTRIAL CONTROL PANELS AND MOTOR CONTROLS CENTERS REQUIRING EXAMINATION OR SERVICING WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE PER CEC 110.16.
- PER 2019 CEC 404.8 ALL SPECIFIED SWITCHES, CONTROLS, THERMOSTATS ETC., SHALL BE INSTALLED AT A MAXIMUM HEIGHT OF 48 INCHES ABOVE THE FLOOR AND MEET ARCHITECTURAL AND ADA REQUIREMENTS.
- ALL WORK TO COMPLY WITH 2019 CALIFORNIA ELECTRICAL CODE AND 2019 CALIFORNIA ENERGY CODE.
- THE ISSUANCE OF A PERMIT SHALL NOT PREVENT THE BUILDING OFFICIAL FROM REQUIRING THE CORRECTION OF ERROR ON THES PLANS OR FROM PREVENING ANY VIOLATION OF THE CODES ADOPTED BY THE CITY, RELEVANT LAWS ORDINANCES, RULES AND/OR REGULATIONS.
- FOR FIRE RATED WALL/CEILING PENETRATION AND/OR MEMBRANE PENETRATION, COMPLETE NRTL CLASSIFICATION SHEETS SHALL BE PROVIDED TO THE INSPECTOR AT THE TIME OF INSPECTION.
- EACH MULTI WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES (210.4).
- ALL INSTALLED MATERIALS AND EQUIPMENT SHALL BE LISTED UL, NRTL OR LISTED AND APPROVED BY A CITY APPROVED TESTING LABORATORY.
- ALL NEW OVERCURRENT DEVICES INSTALLED IN EXISTING PANELS / SWITCHBOARDS SHALL MATCH THE MAKE, MODEL AND INTERRUPTING CAPACITY OF THE EXISTING OVERCURRENT DEVICES.
- A SINGLE RECEPTACLE INSTALLED ON AN INDIVIDUAL BRANCH CIRCUIT SHALL HAVE AN AVERAGE RATING OF NOT LESS THAN THAT OF THE BRANCH CIRCUIT. INDICATE THE RECEPTACLE RATING. (210.21(B)(1)).
- PROVIDE RECEPTACLE OUTLETS WHEREVER CORD CONNECTED EQUIPMENT WILL BE USED. (210.50(B)).
- STANDARD NON-LOCKING STRAIGHT-BLADE RECEPTACLES IN 120-VOLT AND 250-VOLT CONFIGURATION AT WET/DAMP LOCATION ARE REQUIRED TO BE LISTED WEATHER-RESISTANT TYPE 408.8(A).
- PROVIDE ARC-FLASH HAZARD WARNINGS PER 2019 CEC ART. 110.16

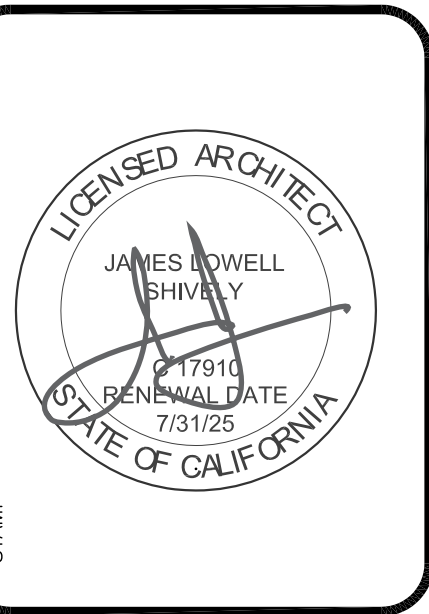
CONTRACTORS NOTES

- RELOCATING EXISTING 200 AMP 208VAC 3 PHASE 4WIRE SERVICE TO WALL OF NEW METAL BUILDING OVER EXISTING ICE RINK. ADDING NEW LIGHTS IN RINK BUILDING WITH AND EQUIPMENT AS SHOWN.
- PROVIDE ALL SMUD REQUIREMENTS FOR OVERHEAD SERVICES
- PROVIDE POWER TO FACP AND FIRE BELL AS REQUIRED. SUPPLIED AND INSTALLED BY OTHERS. PROVIDE BREAKER LOCK ON DEVICE AND PAINT RED.

SYMBOLS LIST

LIGHTING	
○	LIGHTING FIXTURE, SURFACE OR PENDANT MOUNTED
●	(NL) LIGHTING FIXTURE, SURFACE OR PENDANT MOUNTED
□	LED LIGHTING FIXTURE, RECESSED MOUNTED
□	(NL) LED LIGHTING FIXTURE, RESSSED MOUNTED
○	LIGHTING FIXTURE, WALL MOUNTED
○	LED LIGHTING FIXTURE, SURFACE MOUNTED
□	LIGHTING FIXTURE, RECESSED MOUNTED
□	LED STRIP FIXTURE, SURFACE MOUNTED
H&C	EXIT LIGHT FIXTURE WITH 90 MINUTE MINIMUM BATTERY BACK-UP, WALL MOUNTED ARROWS SHOWS DIRECTION
⊗	EXIT LIGHT FIXTURE, 90 MINUTE MINIMUM CEILING MOUNTED
□	POLE MOUNTED FIXTURE
⚡	EMERGENCY LIGHT WITH 90 MINUTE MINIMUM BATTERY BACK-UP
↗	SINGLE POLE TOGGLE SWITCH, 20A 120-277V @ +48" MAX ABOVE FINISHED FLOOR @ TOP OF J-BOX AS REQUIRED.
↗ 3	THREE WAY TOGGLE SWITCH, 20A 120-277V @ +48" MAX ABOVE FINISHED FLOOR @ TOP OF J-BOX AS REQUIRED.
↗ a,b,c	SUBSCRIPT DENOTES OUTLET/FIXTURE CONTROLLED @ +48" MAX ABOVE FINISHED FLOOR @ TOP OF J-BOX AS REQUIRED.
OUTLETS	
⊕	FOURPLEX RECEPTACLE OUTLET 15A, 125V, +15" ABOVE FINISHED FLOOR @ BOTTOM OF DEVICE.
⊕	DUPLEX RECEPTACLE OUTLET 15A, 125V, +15" ABOVE FINISHED FLOOR @ BOTTOM OF DEVICE.
⊕	208V, 3PH, 1PH RECEPTACLE OUTLET SIZE AS NOTED
⊕	DUPLEX RECEPTACLE FLOOR OUTLET 20A, 125V FLUSH IN FINISH FLOOR COLOR AS NOTED.
⊕ IG	DUPLEX RECEPTACLE OUTLET WITH AN ISOLATED GROUND, 20A 125V, +15" ABOVE FINISHED FLOOR @ BOTTOM OF DEVICE.
⊕ IG	FOURPLEX RECEPTACLE OUTLET WITH AN ISOLATED GROUND, 20 125V, +15" ABOVE FINISHED FLOOR @ BOTTOM OF DEVICE.
	TELEPHONE OUTLET ; FLOOR MOUNTED, 3/4"C. MOUNT TO ABOVE CEILING. WITH PULL ROPE, PROVIDE MUD RING.
	DATA OUTLET ; FLOOR MOUNTED, 3/4"C. MOUNT TO ABOVE CEILING, WITH PULL ROPE, PROVIDE MUD RING.
P	PUBLIC TELEPHONE OUTLET
	COMBINATION TELE/DATE OUTLET
⊕	JUNCTION BOX, SIZE AND TYPE AS INDICATED OR REQUIRED
EQUIPMENT	
■	MAIN SWITCH BOARD "MSB" SEE ONE LINE DIAGRAM
■	BRANCH PANEL SURFACE MOUNTED
■	BRANCH PANEL FLUSH MOUNTED
■	TERMINAL CABINET
T	DISTRIBUTION TRANSFORMER, SIZE & MOUNTING AS NOTED
⊕	MOTOR STARTER, SEE MP&S CONNECT AS REQUIRED
F	DISCONNECT SWITCH SIZE AND TYPE AS REQUIRED
F →	FUSED
○	MOTOR MP&S
⊗	EXHAUST FAN - MP&S
⊕	DUCT DETECTOR
(AC-1)	MECHANICAL EQUIPMENT I.D. TAG - MP&S
1	NUMBERED NOTE SHOWN ON SAME SHEET
A ET	DETAIL DESIGNATION, TOP LETTER INDICATES DETAIL, BOTTOM LETTER INDICATES SHEET NUMBER
A 100W MH 277V	FIXTURE DESIGNATION, DENOTES FIXTURE TYPE
T ⊕	TELEPHONE TERMINAL BOARD "TTB" 4"x8"x3/4" PLYWOOD BACKBOARD W/ FOURPLEX RECEPTACLE AND (1) #6 GND.
⊕ RT	WALL MOUNTED SENSOR SWITCH, DUAL TECHNOLOGY
⊕ U	CEILING MOUNTED SENSOR SWITCH, ULTRASONIC
⊕ P	WALL MOUNTED SENSOR SWITCH, PASSIVE INFRARED
PP	POWER PACK, 120V
WIRING	
—	CIRCUIT CONCEALED IN CEILING OR WALL
—	CIRCUIT CONCEALED IN FLOOR OR UNDERGROUND
—	TANDEM FIXTURE, MASTER SLAVE MAKE-UP
—	HOME RUN TO PANELBOARD OR TERMINAL CABINET
—	DENOTES # OF #12 WIRES, NO MARKS = 2 #12, 1/2"C.
—	CURVED HATCH DENOTES IG. OTHERS AS NOTED
—	CONDUIT RISER
—	CONDUIT RISER DOWN
—	STUBBED CONDUIT
—	FLEX CONDUIT
ABBREVIATIONS	
C	CONDUIT
C.O.	CONDUIT ONLY WITH PULL ROPE
(E)	EXISTING
EM	EMERGENCY BATTERY PACK
EL	EVENING LIGHT
GFI	GROUND FAULT INTERRUPTER
GFIC	GROUND FAULT CIRCUIT INTERRUPTER
IG	ISOLATED GROUND
MP&S	SEE MECHANICAL PLANS AND SPECIFICATIONS
MT	EMPTY CONDUIT WITH NYLON PULL ROPE
(N)	NEW
NIES	NOT IN ELECTRICAL SECTION OF THESE PLANS AND SPECIFICATIONS
NL	NIGHT LIGHT
PFB	PROVISION FOR FUTURE BREAKER
PNL	PANELBOARD
(R)	EXISTING TO BE REMOVED OR RELOCATED
RE:	REFERENCE, REFER TO AND COORDINATE WITH
TTB	TELEPHONE TERMINAL BOARD
UON	UNLESS OTHERWISE NOTED
WP	WEATHER PROOF
WR	WEATHER RESISTANCE
NOTE	
SYMBOLS INDICATES ABOVE MAY NOT NECESSARILY APPEAR AS PART OF THESE DRAWINGS IF NOT REQUIRED	

ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL ELECTRICAL EQUIPMENT TO THE 2022 CALIFORNIA ELECTRICAL CODE AND THE 2022 CALIFORNIA ENERGY CODE PER TITLE 24 STANDARDS.



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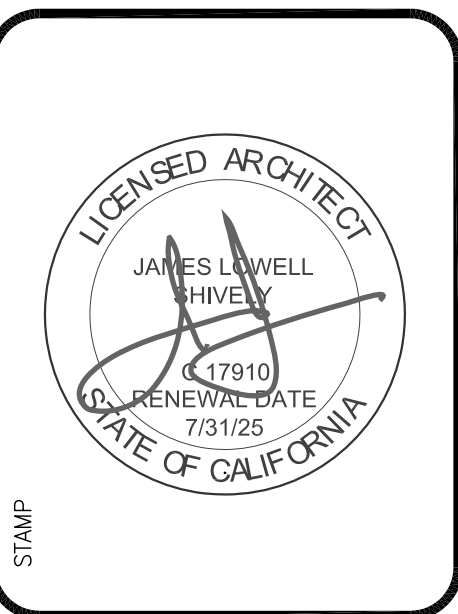
PROJECT DATE
8/5/2024

REVISED

SHEET TITLE
ELECTRICAL
ONE LINE DIAGRAM
SYMBOLS, NOTES
AND
SCHEDULES

SHEET

E0.1



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PROJECT

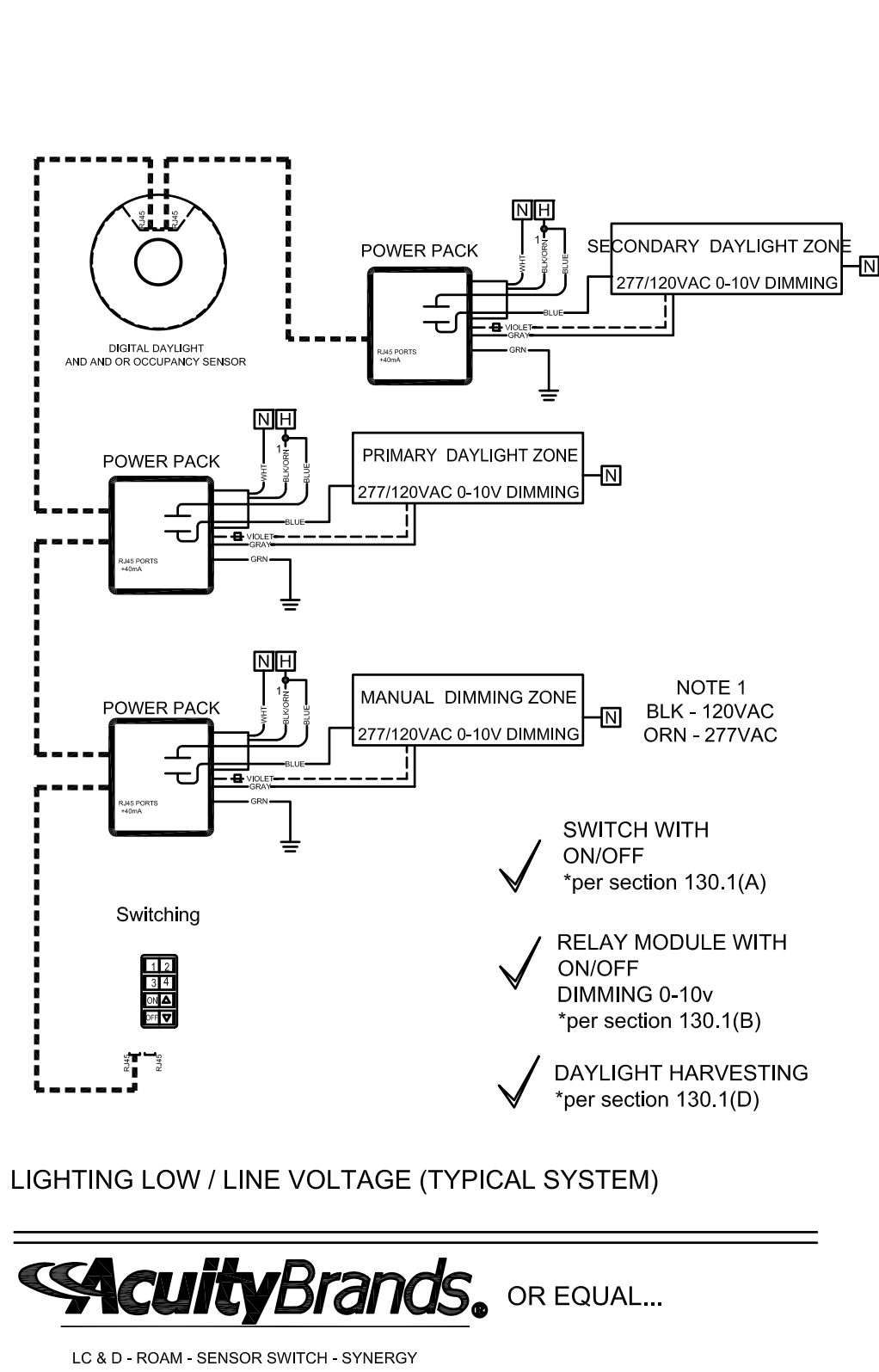
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SHEET TITLE

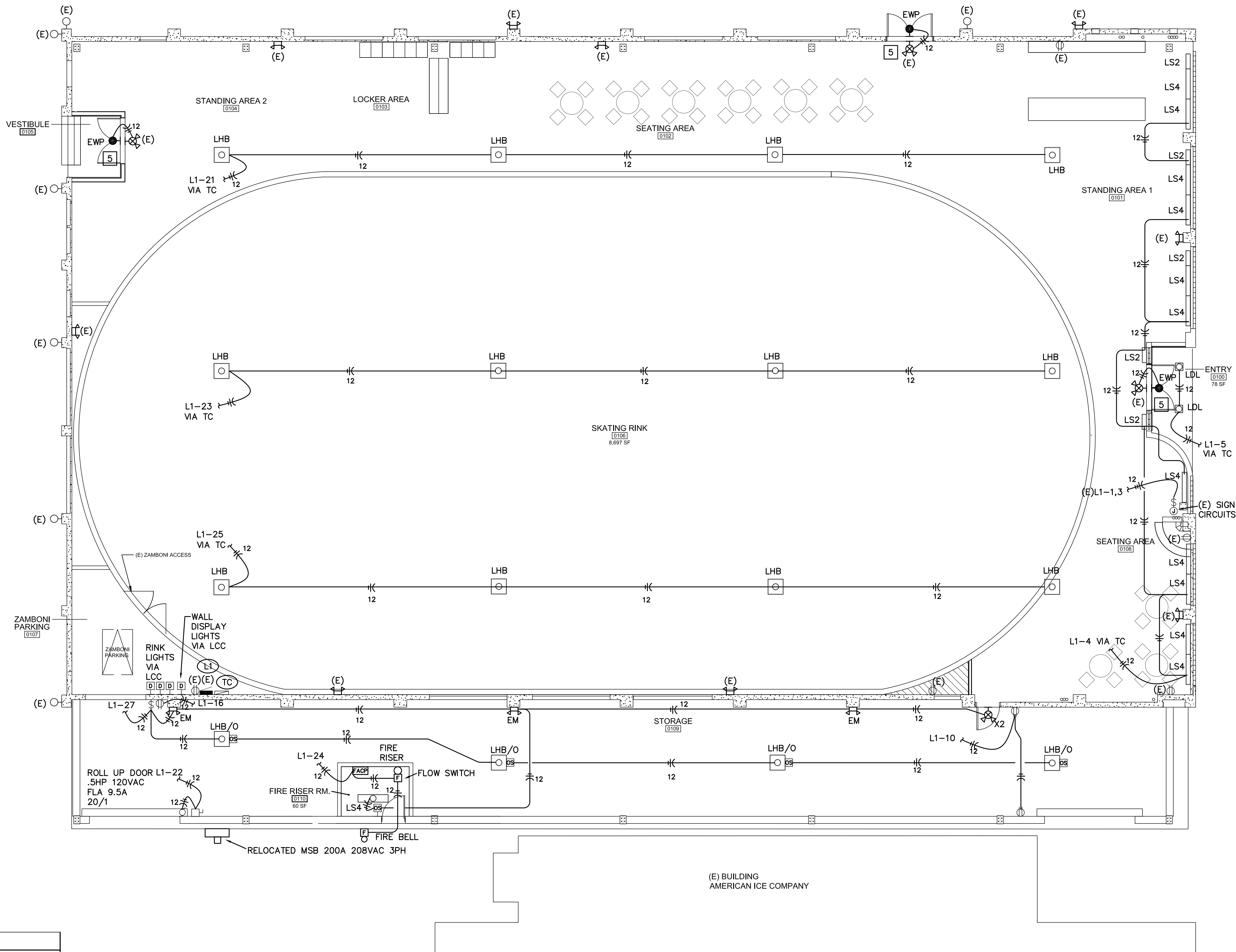
SHEET



TITLE 24 DEVICE SYMBOLS

- T24 TITLE 24 COMPLIANT SWITCHED 1/2 HOT RECEPTACLE AS REQUIRED.
- PP TITLE 24 COMPLIANT POWER PACK AS REQUIRED.
- OS TITLE 24 COMPLIANT OCCUPANCY SENSOR AS REQUIRED.
- OS TITLE 24 COMPLIANCE WALL OCCUPANCY SENSOR AS REQUIRED
- DO TITLE 24 COMPLIANCE WALL DIMMER WITH OCCUPANCY SENSOR AS REQUIRED.
- D TITLE 24 COMPLIANCE WALL DIMMER AS REQUIRED.
- D2 TITLE 24 COMPLIANCE WALL a/b 2 POLE DIMMER AS REQUIRED.
- NSL: NON SWITCH LEG
- LV: 18GA LOW VOLTAGE WIRE AS REQUIRED.

NOT ALL SYMBOLS ABOVE MAY NOT BE USED ON THIS PROJECT



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F. INDOOR LIGHTING FIXTURE SCHEDULE									
This table includes all planned permanent and portable lighting other than dwelling unit/hotel/motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.									
Designed Wattage: Unconditioned Spaces									
01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change ¹	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)(3) / 170.2(e)(2C)	Design Watts	Field Inspector
LHB	LED HIGH BAY	No	NA	210	Mfr. Spec	12	No	2,520	<div><div>Pass</div><div>Fail</div></div>
LHB/O	LED HIGH BAY WITH OCCUPANCY SENSOR	No	NA	210	Mfr. Spec	4	No	840	<div><div>Pass</div><div>Fail</div></div>
LS4	LED 4 FT STRIP LIGHT	No	NA	40	Mfr. Spec	12	No	480	<div><div>Pass</div><div>Fail</div></div>
L25	LED 2FT STRIP LIGHT	No	NA	20	Mfr. Spec	3	No	60	<div><div>Pass</div><div>Fail</div></div>
Total Designed Watts: UNCONDITIONED SPACES								3,900	

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)(4B) / 170.2(e)(2D) is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

²Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)(4C)	Field Inspector
		<div><div>Pass</div><div>Fail</div></div>

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H. INDOOR LIGHTING CONTROLS (Not including PAFs)									
NA < 4,000W subject to multilevel				See Area/Space Level Controls				<div><div>Pass</div><div>Fail</div></div>	<div><div>Pass</div><div>Fail</div></div>
04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)(4A)	Multi-Level Controls 130.1(b) / 160.5(b)(4B)	Shut-Off Controls 130.1(c) / 160.5(b)(4C)	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)(4D)	Secondary Daylighting 130.1(e) / 160.5(b)(4E)	Interlocked Systems 140.6(a)(1) / 170.2(e)(2A)	Field Inspector	
SKATING RINK AND OFF ICE AREA	Sports Arena Class IV	Auth. Personnel	Multilevel Switch	Auto. Time Switch	NA: Not daylight zone	NA: Not daylight zone	No	<div><div>Pass</div><div>Fail</div></div>	<div><div>Pass</div><div>Fail</div></div>
STORAGE AREA	Commercial Industrial Storage Shipping	Readily Accessible	NA: General Ltg <= 0.5W/SF	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<div><div>Pass</div><div>Fail</div></div>	<div><div>Pass</div><div>Fail</div></div>
FIRE RISER RM	Electrical Mechanical Telephone Room	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<div><div>Pass</div><div>Fail</div></div>	<div><div>Pass</div><div>Fail</div></div>
								13	
Plan Sheet Showing Daylit Zones:									

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS									
Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used.									
Unconditioned Spaces									
01	02	03	04	05	06				
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	Area Category	PAF		
SKATING RINK AND OFF ICE AREA	Sports Arena Class IV	0.75	13,500	10,125	No	No	No		
STORAGE AREA	Commercial Industrial Storage Shipping	0.6	2,330	1,398	No	No	No		
FIRE RISER RM	Electrical Mechanical Telephone Room	0.4	60	24	No	No	No		

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C. COMPLIANCE RESULTS									
If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table U, for guidance.									
Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)(1) / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)					Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)			Compliance Results
	01	02	03	04	05	06	07	08	
	Complete Building 140.6(c)(1)	Area Category 140.6(c)(2) / 170.2(e)(4)	Area Category Additional 140.6(c)(3) / 170.2(e)(4)(v) (+)	Tailored 140.6(c)(3) / 170.2(e)(4)(v) (+)	Total Allowed (Watts)	Total Designed (Watts)	PAF Lighting Control Credits 140.6(a)(2) / 170.2(e)(1B)(i)	Total Adjusted (Watts) *Includes Adjustments	
	(See Table I)	(See Table I)	(See Table J)	(See Table K)	=	(See Table F)	(See Table P)	=	
Conditioned					=	≥		=	
Unconditioned	11,547				=	11,547	≥	3,900	COMPLIES
Controls Compliance (See Table H for Details)									COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)									

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS			
TOTALS:	15,890	11,547	See Tables J, or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

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V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/titles24/attcp/providers.html>

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	SKATING RINK AND OFF ICE AREA; STORAGE AREA; FIRE RISER RM

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-071-E

Project Name: Iceland

Report Page: (Page 1 of 8)

Date Prepared: 2024-08-08T14:34:23-04:00

Project Address:		Date Prepared:		2024-08-06T14:34:23-04:00	
A. GENERAL INFORMATION					
01 Project Location (city)	Sacramento	04 Total Conditioned Floor Area (ft²)	0		
02 Climate Zone	12	05 Total Unconditioned Floor Area (ft²)	15,830		
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1		
● Gymnasium ● Warehouse					

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)(2) / 180.2(b)(4) for alterations.

Scope of Work		Conditioned Spaces		Unconditioned Spaces	
01		02	03	04	05
My Project Consists of (check all that apply):		Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
<input checked="" type="checkbox"/> New Lighting System		N/A	0	Area Category Method	15830
<input type="checkbox"/> New Lighting System - Parking Garage		N/A	0	N/A	0
Total Area of Work (ft²)				15830	

Generated Date/Time:

Documentation Software: Energy Code Ace

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Report Version: 2022.0.000

Compliance ID: 216972-0824-0004

Schema Version: rev 20220101

Report Generated: 2024-08-08 11:34:27

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-071-E

Project Name: Iceland

Report Page: (Page 6 of 8)

Date Prepared: 2024-08-08T14:34:23-04:00

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title

NRCC-LTI-E - Must be submitted for all buildings

Generated Date/Time:

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: 216972-0824-0004

Schema Version: rev 20220101

Report Generated: 2024-08-08 11:34:27

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-071-E

Project Name: Iceland

Report Page: (Page 8 of 8)

Date Prepared: 2024-08-08T14:34:23-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: JAMES SHIVELY ARCHITECT

Documentation Author Signature: [Signature]

Company: JAMES SHIVELY ARCHITECT

Signature Date: 6-8-2024

Address: 5033 NE 14 AVE

City/State/Zip: PORTLAND, OREGON 97211

Phone: (916) 803-3049

Responsible Person's Declaration Statement

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building provides to the building owner at occupancy.

Responsible Designer Name: JAMES SHIVELY ARCHITECT

Responsible Designer Signature: [Signature]

Company: JAMES SHIVELY ARCHITECT

Signature Date: 6-8-2024

Address: 5033 NE 14 AVE

City/State/Zip: PORTLAND, OREGON 97211

Phone: (916) 803-3049

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

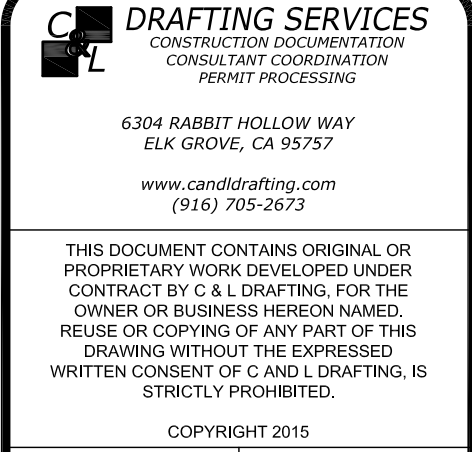
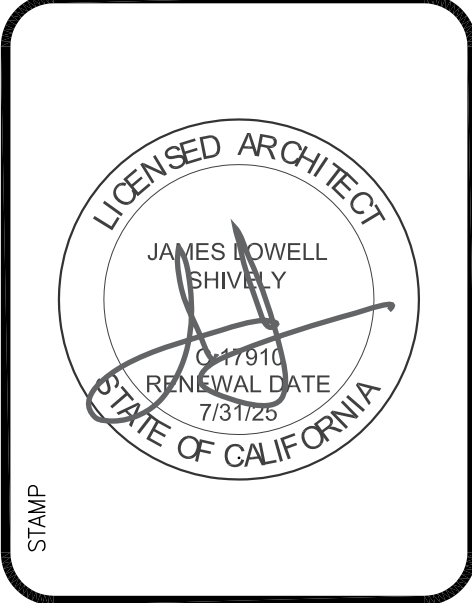
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Compliance ID: 216972-0824-0004

Schema Version: rev 20220101

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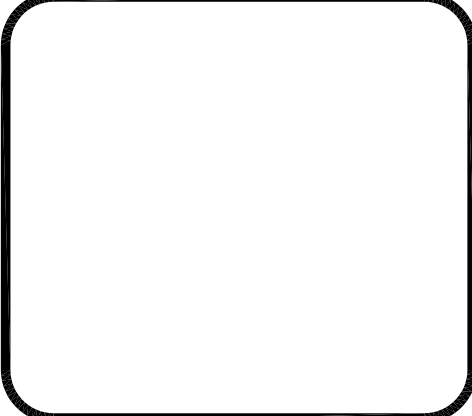
ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL ELECTRICAL EQUIPMENT TO THE 2022 CALIFORNIA ELECTRICAL CODE AND THE 2022 CALIFORNIA ENERGY CODE REQUIREMENTS.



SACRAMENTO, CA. 95815

ICELAND

1434 DEL PASO BLVD.



PROJECT DATE 8/5/2024

REVISIONS

SHEET TITLE ELECTRICAL TITLE 24 COMPLIANCE FORMS LIGHTING

SHEET E2.1

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Electrical Power Distribution			
CERTIFICATE OF COMPLIANCE		NRCC-ELC-E	
Project Name: Iceland		Report Page: (Page 2 of 4)	
		Date Prepared: 2024-08-06T11:47:34-04:00	

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through J. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01	AND	02	AND	03	AND	04	05	06
Service Electrical Metering 130.5(a)/160.6(a) (See Table F)		Separation for Monitoring 130.5(b)/160.6(b) (See Table G)		Voltage Drop 130.5(c)/160.6(c) (See Table H)		Controlled Receptacles 130.5(d)/160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	Compliance Results
	AND		AND	Yes	AND			COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)(2)(iii)/180.2(b)(4)(iii).

01	02		03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method		Location of Voltage Drop Calculations¹	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
E1.1	<input checked="" type="checkbox"/>	Voltage drop less than 5%	<input type="checkbox"/> Permitted by CA Elec Code (Exception to 130.5(c))²	In construction documents	E0.1	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

¹ NOTES: If "Permitted by CA Elec Code" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.

² FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

Generated Date/Time: Documentation Software: Energy Code Ace

Report Version: 2022.0.000 Compliance ID: 216972-0624-0003

Schema Version: rev 20220101 Report Generated: 2024-08-06 08:47:36

STATE OF CALIFORNIA

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-ELC-E

Project Name: Iceland

Report Page: (Page 3 of 4)

Date Prepared: 2024-08-06T11:47:34-04:00

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E.

Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title

NRCC-ELC-E - Must be submitted for all buildings

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Page 3 of 4

There are no forms required for this project.

Generated Date/Time: Documentation Software: Energy Code Ace

Report Version: 2022.0.000 Compliance ID: 216972-0624-0003

Schema Version: rev 20220101 Report Generated: 2024-08-06 08:47:36

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

STATE OF CALIFORNIA

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-ELC-E

This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bvii

Project Name: Iceland

Report Page: (Page 1 of 4)

Project Address:

Date Prepared: 2024-08-06T11:47:34-0400

A. GENERAL INFORMATION

01	Project Location (city)	Sacramento	02	Climate Zone	12
			03	Occupancy Types Within Project:	GymnasiumWarehouse

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/Description	Scope of Work ¹	Rating ² (kVA)	Utility Provided Metering System Exception to 130.5(a)/160.6(a) ³	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
EL.1	Add/Alt to feeders and branch circuits only	---	<input type="checkbox"/>	<input type="checkbox"/>	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	<input type="checkbox"/>

¹FOOTNOTES: Adding only new feeders and branch circuits reduces Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.

² If common use event in a multifamily are submitted, rating is for submeter size serving common use areas.

³ Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

Generated Date/Time: Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 216972-0824-0003 Schema Version: rev 20220101 Report Generated: 2024-08-06 08:47:36

STATE OF CALIFORNIA

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-ELC-E

Project Name: Iceland

Report Page: (Page 4 of 4)

Project Address:

Date Prepared: 2024-08-06T11:47:34-0400

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: John Galliani

Documentation Author Signature: JAMES SHIVELY ARCHITECT

Company: JAMES SHIVELY ARCHITECT

Signature Date: 8-8-2024

Address: 5033 NE 14 AVE

CA/EPPS Certification Identification (if applicable):

City/State/Zip: PORTLAND, OREGON 97211

Phone: (916) 803-3849

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building owner provides to the building owner at occupancy.

Responsible Designer Name: JAMES SHIVELY ARCHITECT

Responsible Designer Signature: JAMES SHIVELY ARCHITECT

Company: JAMES SHIVELY ARCHITECT

Date Signed: 8-8-2024

Address: 5033 NE 14 AVE

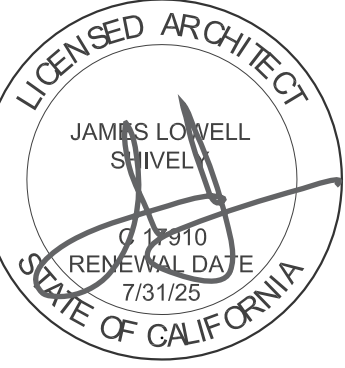
License: 17810

City/State/Zip: PORTLAND, OREGON 97211

Phone: (916) 803-3049

Generated Date/Time: Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 216972-0824-0003 Schema Version: rev 20220101 Report Generated: 2024-08-06 08:47:36



04 RABBIT HOLLOW WAY
ELK GROVE, CA 95757
www.candidrafting.com
(916) 705-2673

THIS DOCUMENT CONTAINS ORIGINAL OR PROPRIETARY WORK DEVELOPED UNDER CONTRACT BY C & L DRAFTING, FOR THE OWNER OR BUSINESS HEREON NAMED. REUSE OR COPYING OF ANY PART OF THIS DRAWING WITHOUT THE EXPRESSED WRITTEN CONSENT OF C AND L DRAFTING, IS STRICTLY PROHIBITED.

RIGHT 2015

ICELAND
1434 DEL PASO

PROJECT	DATE
	8/5/2024

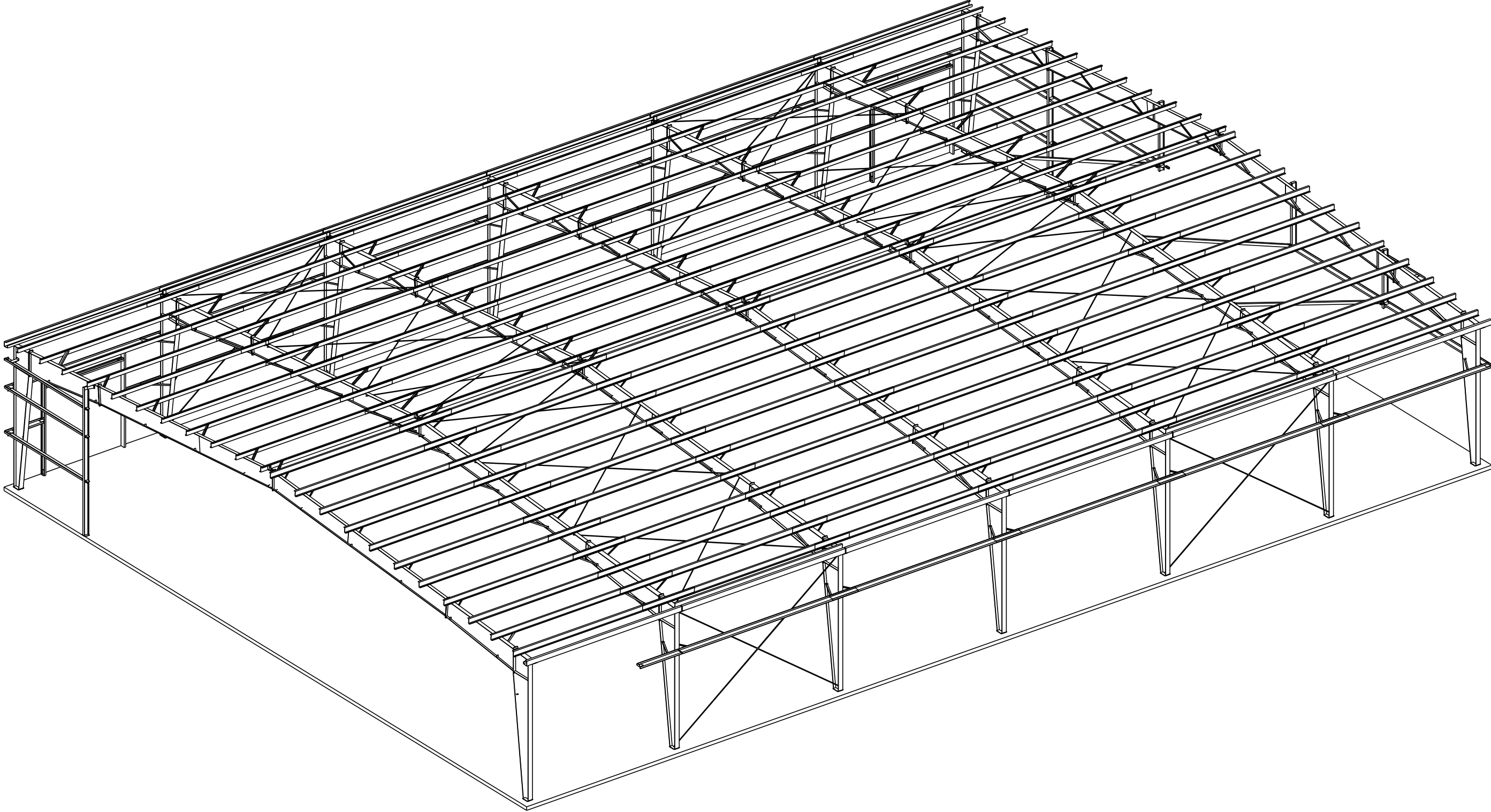
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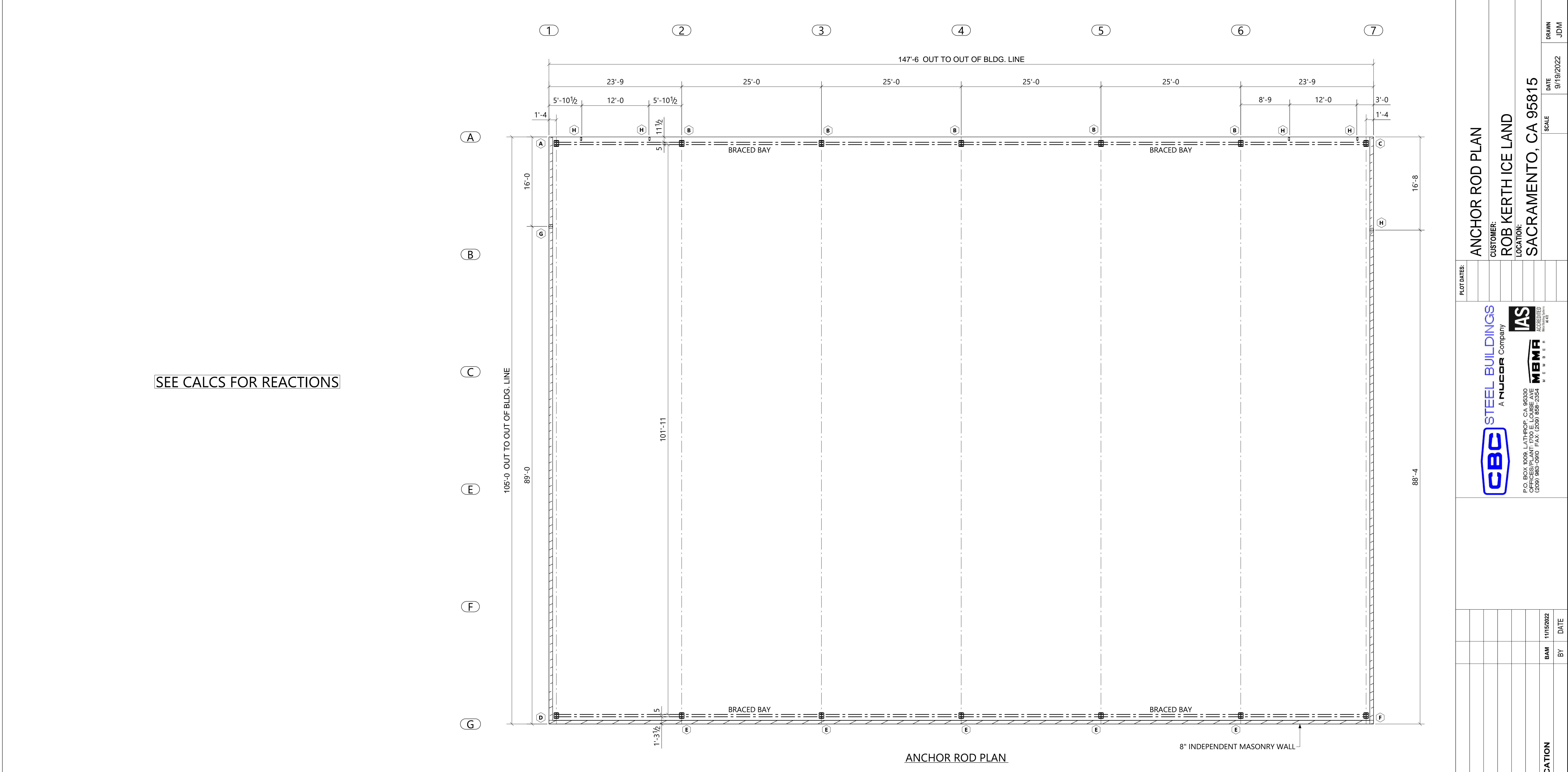
ET TITLE
ELECTRICAL
TITLE 24
COMPLIANCE
FORMS
LIGHTING

ET

2.2

ELECTRICAL CONTRACTOR TO PROVIDE AND
INSTALL ALL ELECTRICAL EQUIPMENT TO THE
2022 CALIFORNIA ELECTRICAL CODE AND THE
2022 CALIFORNIA ENERGY CODE PER TITLE 24
STANDARDS.

	<div>Building Information<div>Building Width: 105'-0"Front Eave Ht.: 20'-0"Building Length: 147'-6"Back Eave Ht.: 20'-0"</div><div>Roof Panel Type: 26 Ga. R-PanelRoof Color: GALVALUME PLUSWall Panel Type: 26 Ga. R-PanelWall Color: REGAL WHITERoof Trim Color: REGAL WHITEWall Trim Color: REGAL WHITE</div></div>	<div>Material Specifications<div>1. Primary Framing: Web Plates, ASTM A529, A572, A1011, Grade 55 Flanges, ASTM A529, A572, Grade 55</div><div>2. Secondary Framing: Galvanized 16Ga, 15Ga. 14Ga, 13Ga, 12Ga, ASTM A653 G90, Grade 55, Min. Yield 55 ksi.</div><div>3. Roof & Wall Covering: 26Ga Painted and Unpainted ZA., ASTM A792 AZ50, Grade 50 & 80 24Ga Painted and Unpainted ZA., ASTM A792 AZ50, Grade 50 26Ga Painted Galvanized, ASTM A653 G90, AZ55 Grade 50 & 80 24Ga Painted Galvanized, ASTM A653 G90, AZ55 Grade 50</div><div>4. Bracing: Cables, ASTM A475 Extra High Strength Grade. Angles, ASTM A36, Min. Yield 36 ksi. Rods , A529 Grade 50</div></div>	<div>Design Loads<div>This steel building is designed utilizing the following loads, in compliance with the pertinent provisions of the California Building Code, 2019 Edition (CBC 2019).</div><div>All accessories such as doors, windows, etc. not by CBC Steel Buildings, must be designed as Structural Components in accordance with the Wind Load provisions of the applicable Codes and Specifications referenced on this page.</div><div>The Builder and/or the Engineer of Record must confirm that the following loads meet the requirements of the local building department. CBC Steel Buildings and the undersigned are "NOT the Engineer of Record for the entire project.</div><div>Building Dead Load 5.0 psf (Total) Collateral Load 5.0 psf Live Load 20 psf Live Load Reduction Allowed Yes Snow Load, Roof 0 psf Snow Load, Ground 0 psf Ce 1.0 Impt. Factor 1.10</div><div>Wind Load, Speed Vult: 110 mph, Vasd: 85 mph Exposure C Wind Enclosure Enclosed, GCpi = ±0.18 Impt. Factor 1.0 Kzt 1.0</div><div>Earthquake Load Risk Category: III Impt. Factor: 1.25 Ss = 53.90% S1 = 24.60% Sds = 0.49 Sd1 = 0.35 Seismic Site Class: D Seismic Design Category: D</div><div>Equivalent Lateral Force Procedure Lateral Direction: Ordinary Moment Frame (OMF) R = 3.50, Omega = 2.50, V = CsW, Cs = 0.18 Longitudinal Direction: Ordinary Concentrically Braced Frame (OCBF) R = 3.25, Omega = 2.00, V = CsW, Cs = 0.19</div><div>Other Loads: Mezzanine: Live Load N/A Dead Load N/A Crane Load N/A</div></div>	<div>Product Certifications<div>1. IAS International Accreditation Services, Inc. Approved Fabricator AC-472, MB-152.</div><div>2. City of Los Angeles, CA. Approved Type I Fabricator No. 1436.</div><div>3. City of Riverside, CA. Approved Type I Fabricator No. SP07-0091.</div><div>4. Clark County, Approved Steel Fabricator No. 404.</div></div>	<div>Codes & Specifications<div>The design of this structure is in compliance with the CBC specifications and standards, utilizing the pertinent provisions and recommendations of the following Codes.</div><div>1. California Building Code, 2019 Edition (CBC 2019).</div><div>2. American Institute of Steel Construction, Fifteenth Edition (AISC 360-16 & AISC 341-16).</div><div>3. American Iron and Steel Institute, 2016 Edition (AISI S100-16).</div><div>4. Metal Building Manufacturers Association, 2018 Edition (MBMA, 2018).</div><div>5. American Welding Society, Structural Welding Code (AWS D1.1, 2015).</div></div>	<div>Inspections<div>1. Shop Welding inspection is not required according to the approved status of the above Certifications. No field welding is required by CBC Steel Buildings. However, if any field welding is required due to any field modifications, special inspection is required.</div><div>2. Special inspection is required for high strength bolts. The Turn of the Nut method of tightening is recommended, under the supervision of an independent testing laboratory. Alternate methods of tightening may be used as permitted in the Specification for Structural Joints Using ASTM A325 or A490 Bolts (AISC Fifteenth Edition). CBC Steel Buildings shall not be responsible for administration or costs associated with the inspection process.</div><div>3. Special inspections and testing that may be required by governmental or other authority during construction and/or steel fabrication (collectively, "inspections") are not the responsibility of CBC, and to the extent required it shall be the responsibility of the builder and/or owner. In the event the inspections are required, the builder and/or owner shall employ a third-party quality assurance testing agency approved by the relevant authority. If such requirements are not specifically included in CBC sales documents, no inspections by CBC or at any Nucor facility shall be made. All CBC/NBG facilities are accredited by IAS AC472.</div></div>	<div>Special Notes<div>N/A</div></div>	<div>GLOSSARY OF ABBREVIATIONS<div>A.B. = Anchor Bolts B.S. = Both Sides B.U. = Built-Up Dia. Diameter Flg. = Flange F.S. = Far Side Ga. = Gauge ?? = Part Mark to be determined and will be updated on For Construction drawings</div><div>H.S.B. = High Strength Bolts Ht. = Height M.B = Machine bolts Max. = Maximum Min. = Minimum N.S. = Near Side O.C. = On Center</div><div>PL. = Plate Req'd = Required Rev. = Revision Stiff. = Stiffener T.B.D. = To Be Determined Typ. = Typical U.N.O. = Unless Noted Otherwise</div><div>Special Bolting Connection Inspection Req. (Made with A325 Bolts) 1) Pre-tensioning of A325 bolts is required on primary framing, bolted bracing, and strut connections if located in seismic performance/design category "D", "E" or "F". 2) Slip critical connections are not required by CBC Steel Buildings 3) 1/2" A325 bolts do not require pre-tensioning unless noted.</div></div>	
	<div>GENERAL INFORMATION<div>CBC JOB No. C22B0182A</div><div>CUSTOMER: ROB KERTH ICE LAND</div><div>LOCATION: SACRAMENTO, CA 95815</div></div>							<div>PLAT DATES:</div> <div>CBC</div> <div>STEEL BUILDINGS</div> <div>A NUCOR Company</div> <div>IAS</div> <div>MBMA</div> <div>P.O. BOX 1008, LATHROP, CA 95830 OFFICES: 1700 L STREET, SACRAMENTO, CA 95833 (916) 486-0076 FAX: (916) 486-2535</div>	<div>DEALER: R.C. PATTERSON INC.</div> <div>ENGR. APR. VP</div> <div>DRAWN JDM</div> <div>DATE 9/19/2022</div> <div>SCALE</div> <div>SHEET 1 OF 11</div>
	<div>Detailed for Fabrication</div> <div>11/15/2022</div> <div>DATE</div> <div>BY</div> <div>REV</div>								



AN1: THE SPECIFIED ANCHOR ROD DIAMETER ASSUMES F1554 GRADE 36 UNLESS NOTED OTHERWISE, ANCHOR ROD MATERIAL OF EQUAL DIAMETER MEETING OR EXCEEDING THE STRENGTH REQUIREMENTS SET FORTH ON THESE DRAWINGS MAY BE UTILIZED AT THE DISCRETION OF THE FOUNDATION DESIGN ENGINEER. ANCHOR ROD EMBEDMENT LENGTH SHALL BE DETERMINED BY THE FOUNDATION DESIGN ENGINEER.

AN2: METAL BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR PROJECT FOUNDATION DESIGN. THE FOUNDATION DESIGN IS THE RESPONSIBILITY OF A REGISTERED PROFESSIONAL ENGINEER, FAMILIAR WITH LOCAL SITE CONDITIONS.

AN3: ANCHOR RODS, NUTS, FLAT WASHERS FOR ANCHOR RODS, EXPANSION BOLTS, AND CONCRETE/MASONRY EMBEDMENT PLATES ARE NOT BY METAL BUILDING MANUFACTURER.

ANA4: THE ANCHOR ROD LOCATIONS PROVIDED BY METAL BUILDING MANUFACTURER SATISFY PERTINENT REQUIREMENTS FOR THE DESIGN OF THE MATERIALS SUPPLIED BY THE METAL BUILDING MANUFACTURER. IT IS THE RESPONSIBILITY OF THE FOUNDATION ENGINEER TO MAKE CERTAIN THAT SUFFICIENT EDGE DISTANCE IS PROVIDED FOR ALL ANCHOR RODS IN THE DETAILS OF THE FOUNDATION DESIGN

AN5: DRAWINGS ARE NOT TO SCALE.
SEE DETAILS FOR COLUMN ORIENTATION

AN6: THE ANCHOR ROD PLAN INDICATES WHERE THE ANCHOR RODS ARE TO BE PLACED AS WELL AS THE FOOTPRINT OF THE METAL BUILDING. IT IS ESSENTIAL THAT THESE ANCHOR ROD PATTERNS BE FOLLOWED IF THESE SETTINGS DIFFER FROM THE ARCHITECTURAL FOUNDATION PLANS, THE METAL BUILDING MANUFACTURER MUST BE CONTACTED IMMEDIATELY – BEFORE CONCRETE IS PLACED

**BUILDING MANUFACTURER MUST BE CONTACTED
IMMEDIATELY – BEFORE CONCRETE IS PLACED**

AN7: ALL DIMENSIONS ARE OUT TO OUT OF STEEL. IF CONCRETE NOTCH IS REQUIRED THEN THE REQUIRED DIMENSION SHOULD BE ADDED TO OBTAIN THE OUT TO OUT OF CONCRETE DIMENSIONS.

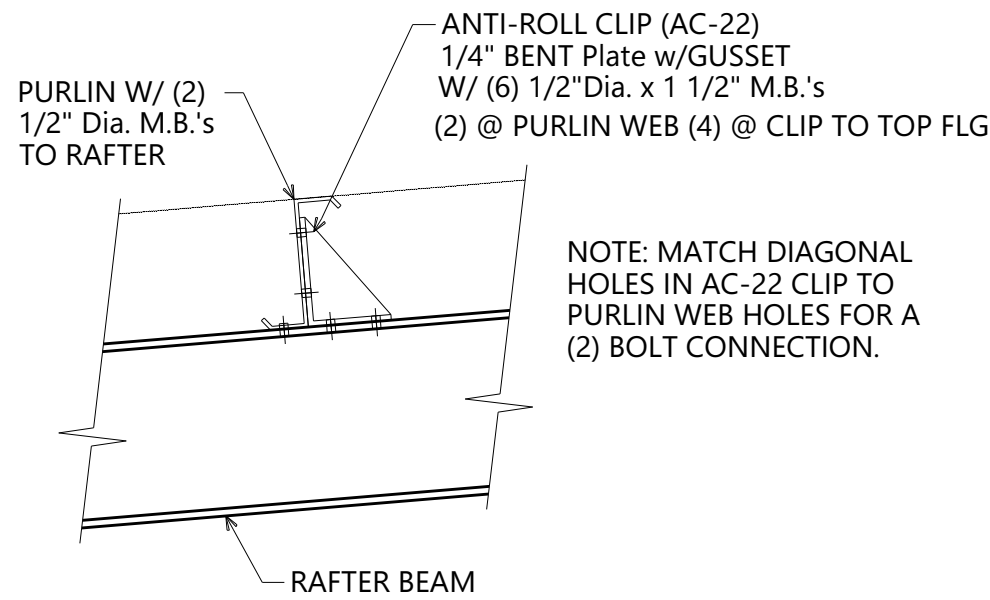
AN8: FINISHED FLOOR ELEVATION = 100'-0"
BOTTOM OF BASE PLATE = 100'-0" UNLESS
NOTED OTHERWISE

(2) 1 1/4" dia. bolts @ 28 Places See Details
(2) 3/4" dia. bolts @ 2 Places See Details
(2) 1/2" dia. bolts @ 4 Places See Details

MATERIAL DESCRIPTION
NOTE: ALL LIGHT GA. MAT'L GALVANIZED

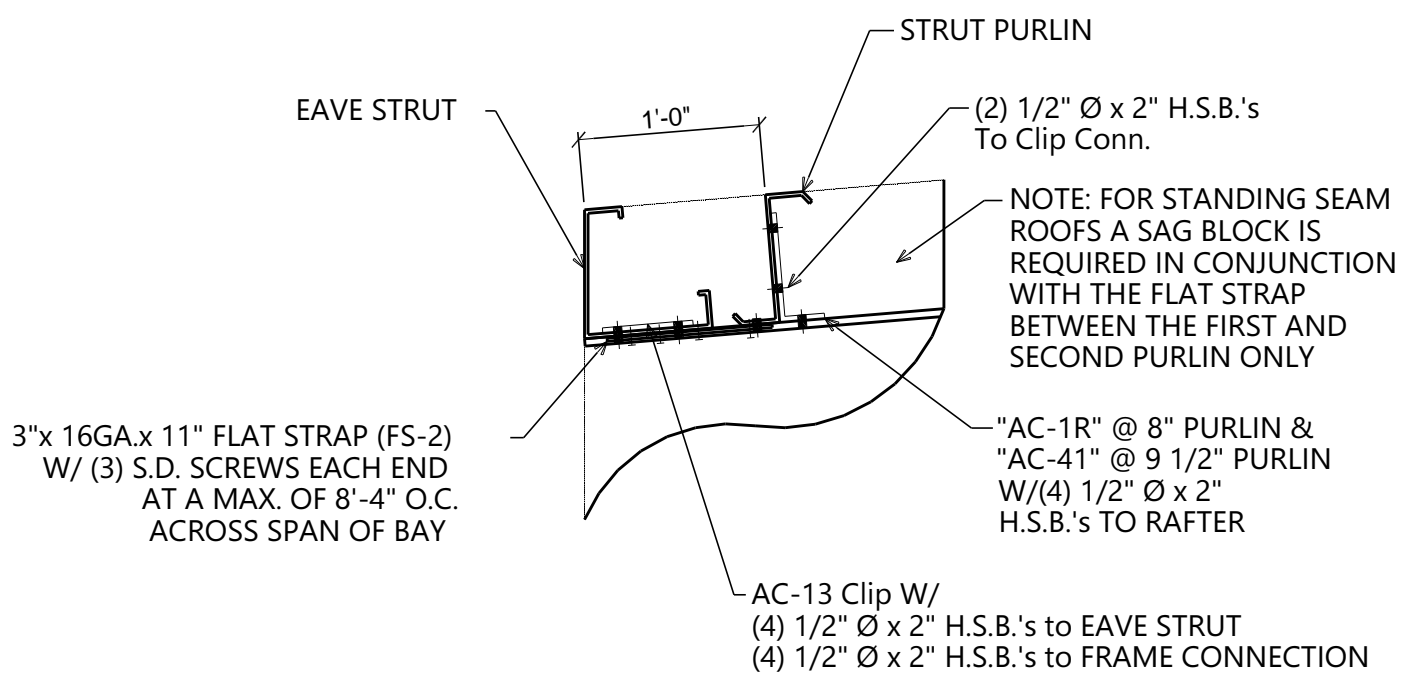
GE8- EAVE STRUT 8"x 8"x 16 Ga. "Cee"	FC- STRUCTURAL BUILT-UP COLUMNS
GEX- EAVE STRUT 9 1/2"x 8"x 14 Ga. "Cee"	FR- STRUCTURAL BUILT-UP RAFTERS
GR8- CORNER POSTS 8"x 8"x 16 Ga. "Cee"	FR- STRUCTURAL BUILT-UP MISCELLANEOUS
RA-1 RAKE ANGLE 5"x 2" 16 Ga. 55 ksi	FM- WALL SUPPORT BEAM & STRUTS
FB- FLANGE BRACE 2"x 2" 16 Ga. 55 ksi	FA- STRUCTURAL ANGLES
WA- WINDOW FRAME ANGLE 2"x 2" 16 Ga.	FP- STRUCTURAL PIPES
PA- ROOF/WALL SHEETING 26 Ga. "R" PANEL	FT- STRUCTURAL TUBES
PR- ROOF/WALL SHEETING 24 Ga. "R" PANEL	FJ- 10 GA. PRESS BROKE MEMBERS
RC- RIDGE CAP 26 Ga. "R" PANEL	MC- STRUCTURAL CHANNELS
RD- RIDGE CAP 24 Ga. "R" PANEL	SB- SAG BLOCKING 5 1/4"x7/8"x7/8"x10 Ga. "Zee"
PH- WALL SHEETING 26 Ga. REVERSE "R" PANEL	RB- RIDGE SAG BLOCKING 5 1/4"x7/8"x7/8"x16 Ga. "Zee"
PJ- WALL SHEETING 24 Ga. REVERSE "R" PANEL	BC- BRACE CABLE 3/8"Ø
PD- WALL SHEETING 26 Ga. "A" PANEL	RS- BRACE RODS 5/8"Ø
PE- WALL SHEETING 24 Ga. "A" PANEL	R6- BRACE RODS 3/4"Ø
S3P- ROOF SHEETING STANDING SEAM MS-34 PANEL	RB- BRACE RODS 1"Ø
S3P- ROOF SHEETING STANDING SEAM MS-34 PANEL	R10- BRACE RODS 1 1/4"Ø
H9320 TRANSLUCENT "R" PANEL 3' x 10'-8	R12- BRACE RODS 1 1/2"Ø
H9318 INSULATED TRANSLUCENT "R" PANEL 3' x 10'-8	

8" DEEP MEMBER DESCRIPTIONS	9 1/2" DEEP MEMBER DESCRIPTIONS
ZS- ROOF PURLINS / WALL GIRTS 8"x 2 1/2"x 12 Ga. (0.099) "Zee"	ZX- ROOF PURLINS / WALL GIRTS 9 1/2"x 3"x 13 Ga. (0.099) "Zee"
ZK- ROOF PURLINS / WALL GIRTS 8"x 2 1/2"x 13 Ga. (0.089) "Zee"	ZU- ROOF PURLINS / WALL GIRTS 9 1/2"x 3"x 13 Ga. (0.089) "Zee"
ZL- ROOF PURLINS / WALL GIRTS 8"x 2 1/2"x 14 Ga. (0.075) "Zee"	ZV- ROOF PURLINS / WALL GIRTS 9 1/2"x 3"x 14 Ga. (0.075) "Zee"
ZM- ROOF PURLINS / WALL GIRTS 8"x 2 1/2"x 15 Ga. (0.067) "Zee"	ZO- ROOF PURLINS / WALL GIRTS 9 1/2"x 3"x 15 Ga. (0.067) "Zee"
ZW- ROOF PURLINS / WALL GIRTS 8"x 2 1/2"x 16 Ga. (0.060) "Zee"	CC- DOOR HEADERS/JAMBS & END POSTS 9 1/2"x 2 1/2"x 12 Ga. (0.099) "Cee"
CX- DOOR HEADERS/JAMBS & END POSTS 8"x 2 1/2"x 12 Ga. (0.099) "Cee"	CP- DOOR HEADERS/JAMBS & END POSTS 9 1/2"x 2 1/2"x 15 Ga. (0.067) "Cee"
CY- DOOR HEADERS/JAMBS & END POSTS 8"x 2 1/2"x 13 Ga. (0.089) "Cee"	UY- CAP CHANNEL 9 3/4" x 3" x 12 Ga.
CZ- DOOR HEADERS/JAMBS & END POSTS 8"x 2 1/2"x 14 Ga. (0.075) "Cee"	UU- CAP CHANNEL 9 3/4" x 3" x 13 Ga.
CT- DOOR HEADERS/JAMBS & END POSTS 8"x 2 1/2"x 15 Ga. (0.067) "Cee"	UI- CAP CHANNEL 9 3/4" x 3" x 14 Ga.
CW- DOOR HEADERS/JAMBS & END POSTS 8"x 2 1/2"x 16 Ga. (0.060) "Cee"	UD- CAP CHANNEL 9 3/4" x 3" x 15 Ga.
DX- DOUBLE CEE RAKE BEAM (2) 8"x 2 1/2"x 13 Ga. (0.089) "Cee"	
US- CAP CHANNEL 8 1/4" x 3" x 12 Ga.	
UK- CAP CHANNEL 8 1/4" x 3" x 13 Ga.	
UZ- CAP CHANNEL 8 1/4" x 3" x 14 Ga.	
UT- CAP CHANNEL 8 1/4" x 3" x 15 Ga.	
UW- CAP CHANNEL 8 1/4" x 3" x 16 Ga.	
UR- "WRAP" HEADER CHANNEL 8" x 8 1/4" x 4" 14 Ga.	



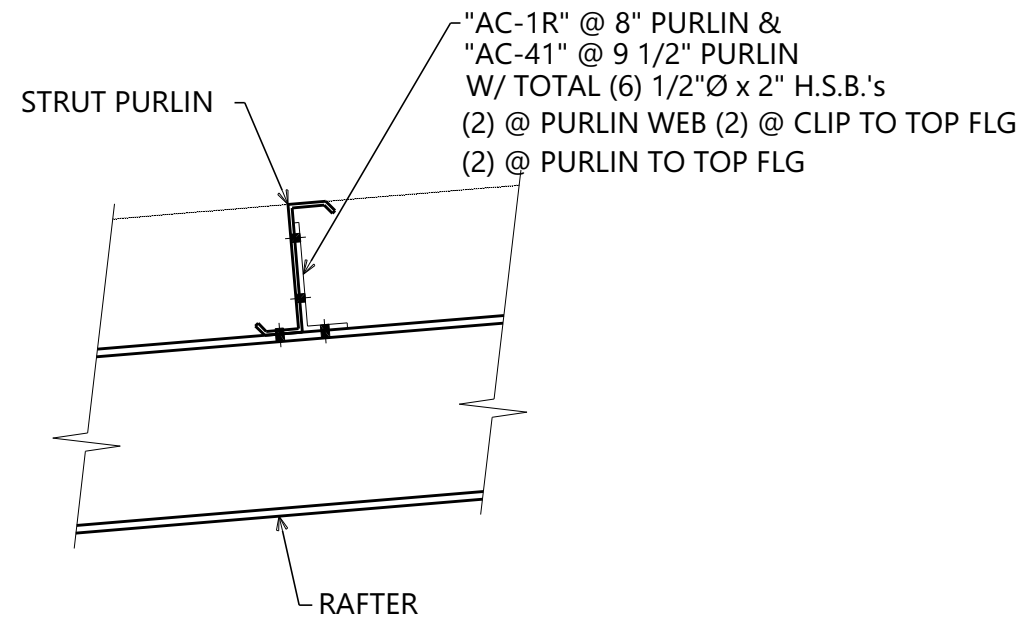
ANTI-ROLL CLIP DETAIL

★ - DENOTES CLIP DETAIL @ PURLIN RUN SHOWN



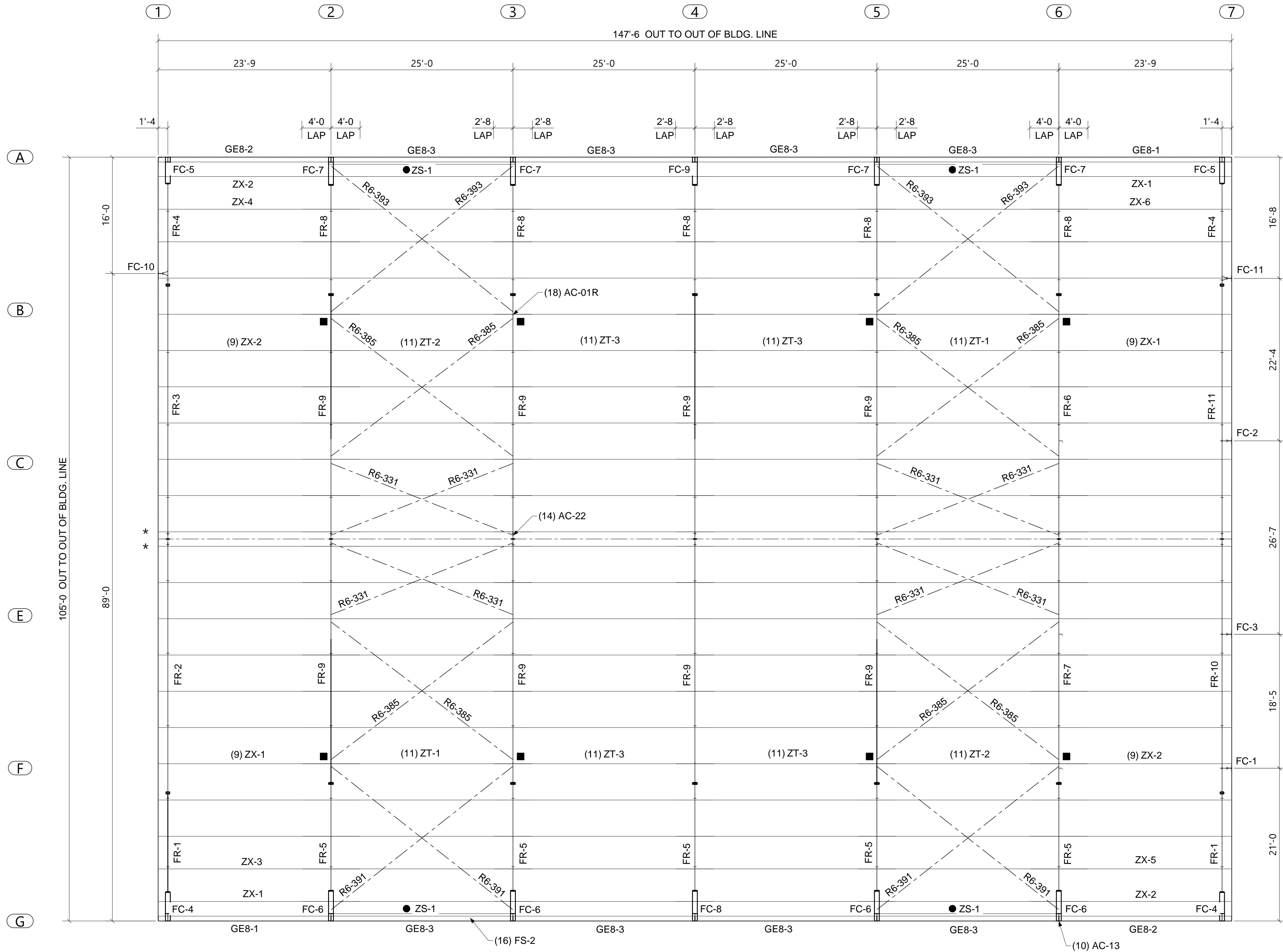
EAVE STRUT PURLIN DETAIL

● - DENOTES CLIP DETAIL @ PURLIN LOCATION SHOWN



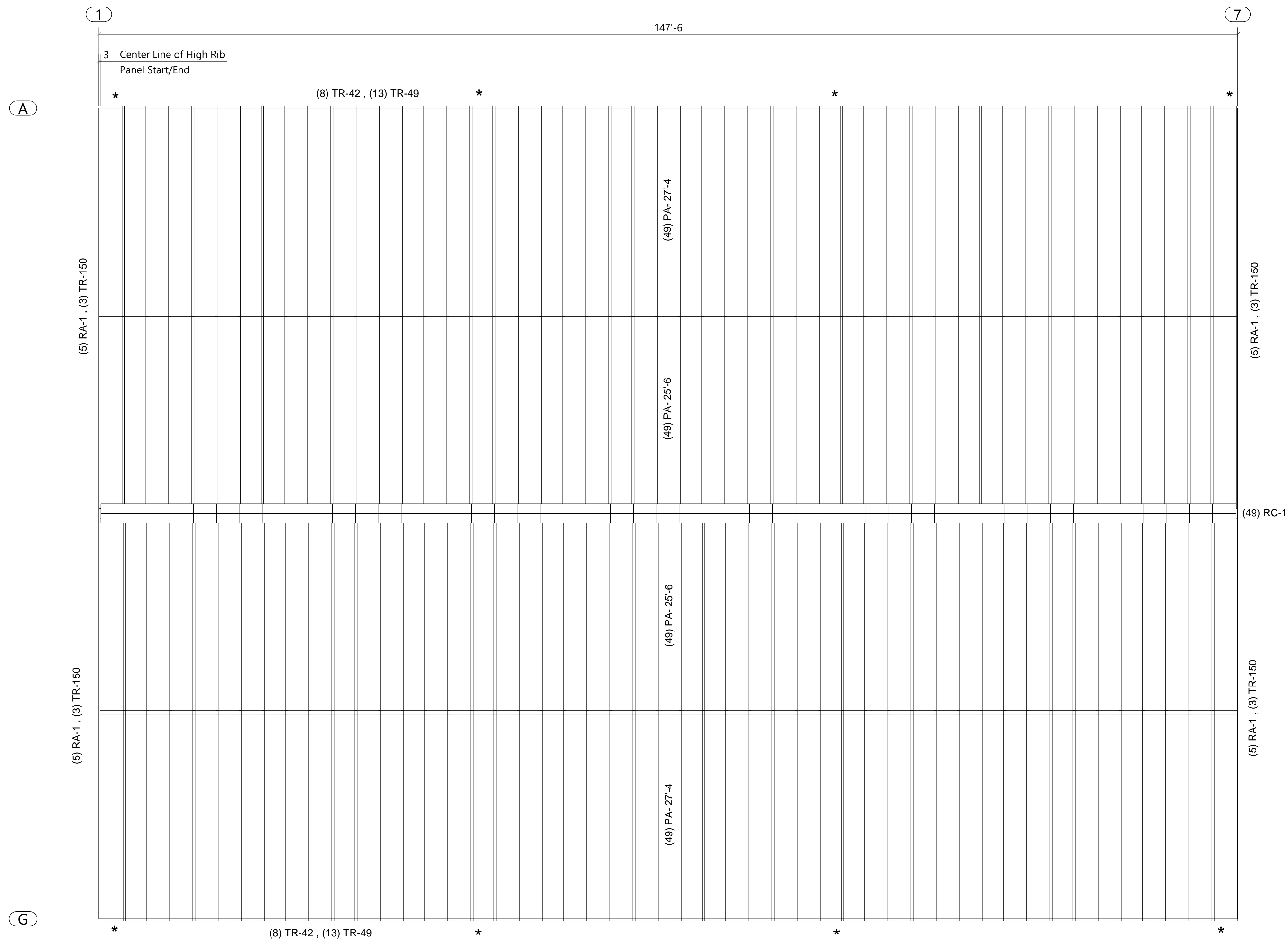
STRUT PURLIN DETAIL

■ - DENOTES CLIP DETAIL @ CONNECTION LOCATION SHOWN



ROOF FRAMING PLAN

CBC JOB No.	C22B0182A
ROOF PLAN	
CUSTOMER:	ROB KERTH ICE LAND
LOCATION:	SACRAMENTO, CA 95815
DEALER:	R.C. PATTERSON INC.
ENGR. APPR.	VP
DRAWN	JDM
DATE	9/19/2022
SCALE	
SHEET	3
OF	11
PLAT DATES:	
11/15/2022	DATE
BAM	BY
REVISION	
DETAILED FOR FABRICATION	

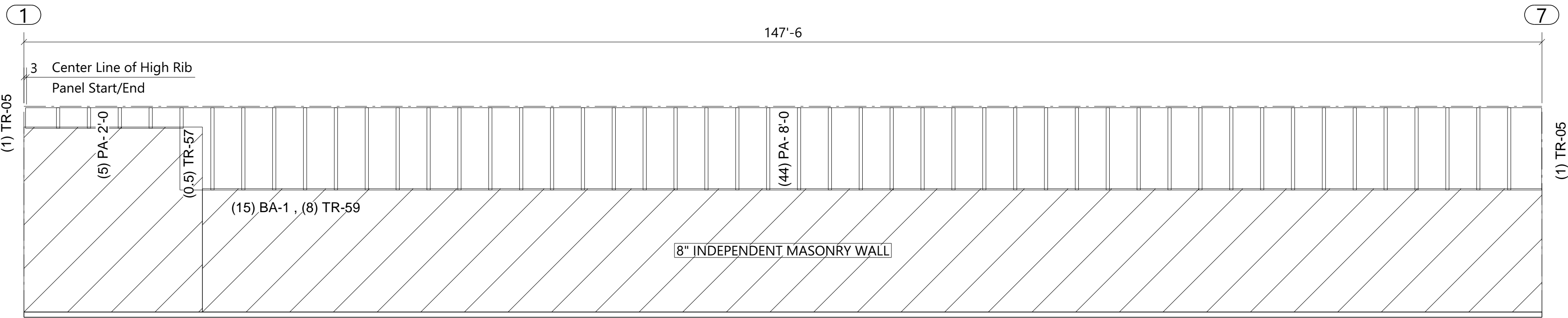


ROOF SHEETING PLAN

PANEL: 26Ga 'R' COLOR : GALVALUME PLUS (GM)

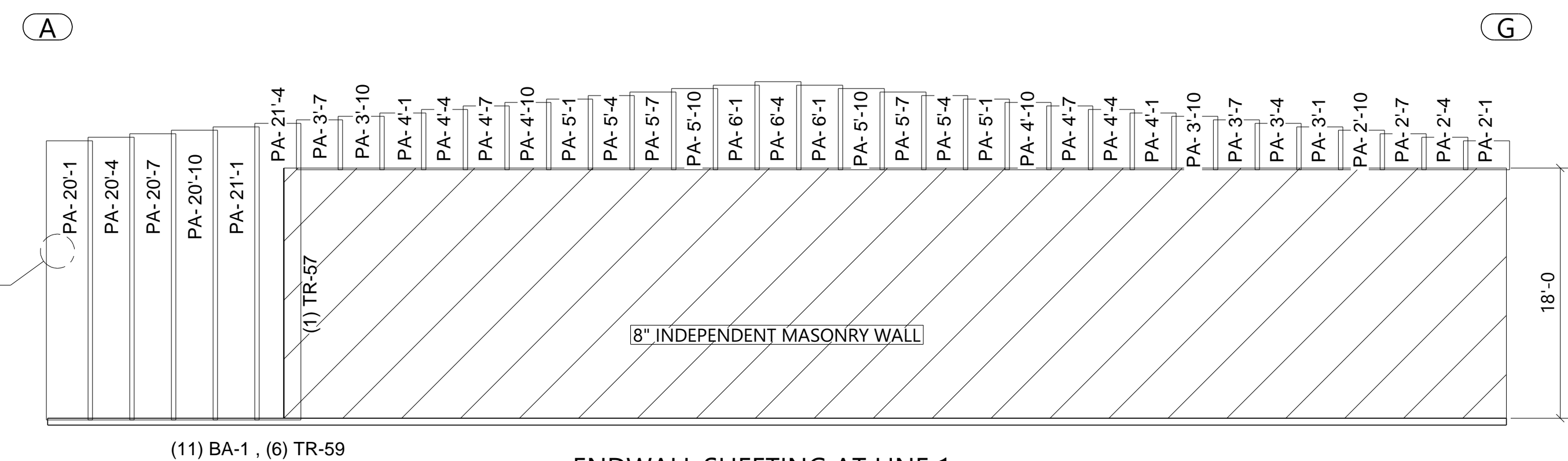
- * TRIMS @ EA. DOWNSPOUT
MAX. SPACING = 50 LN. FT.
(1) TR-10 (DOWNSPOUT)
(4) TR-10-S (D.S. STRAP)
(1) TR-10-T (ELBOW)
(1) TR-10-V (NIPPLE)

[illegible]

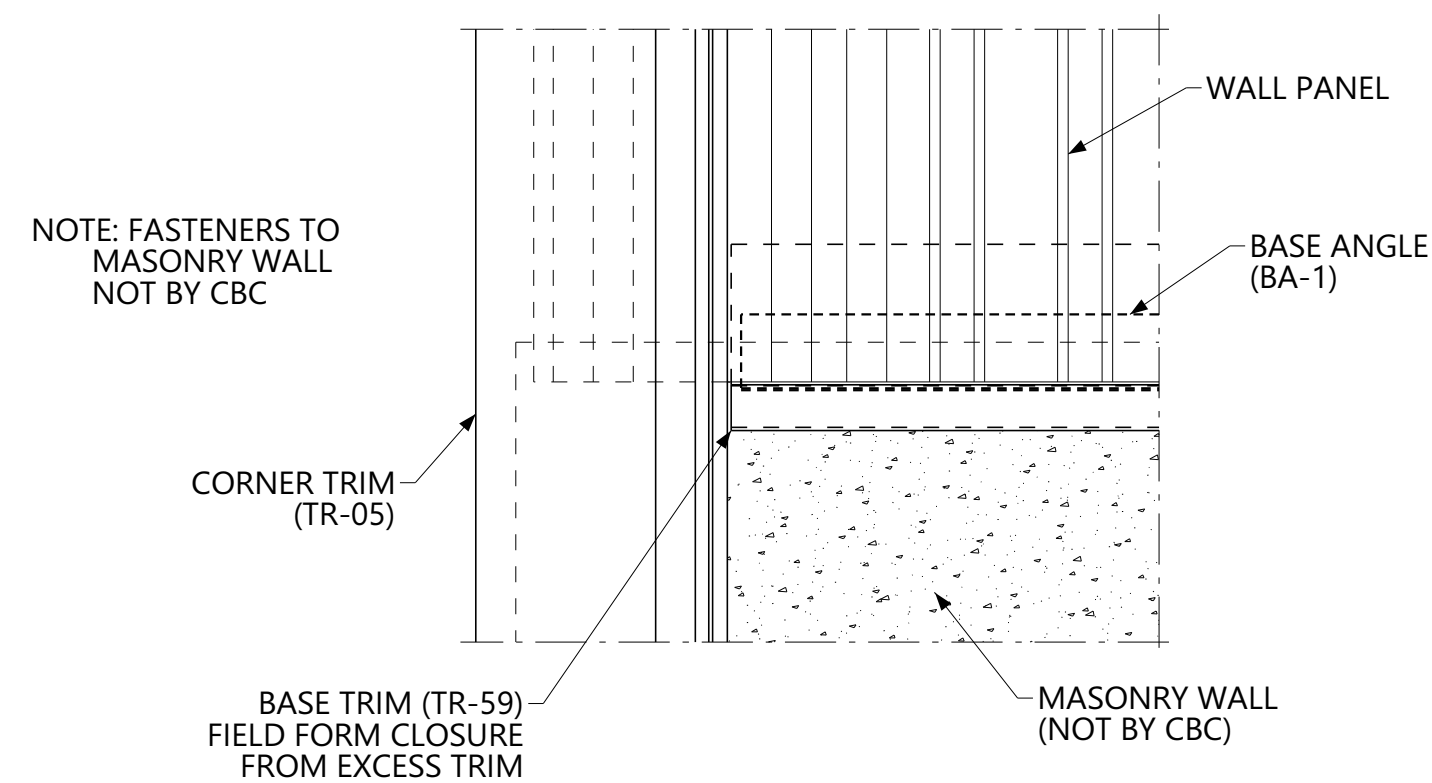


SIDEWALL SHEETING AT LINE G
PANEL: 26Ga 'R' COLOR : REGAL WHITE

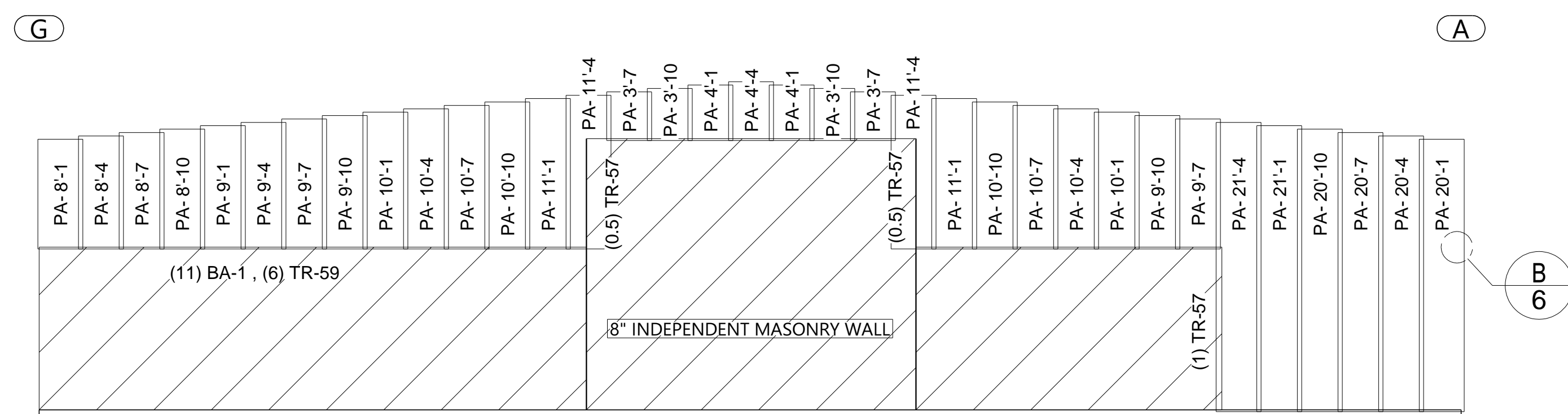
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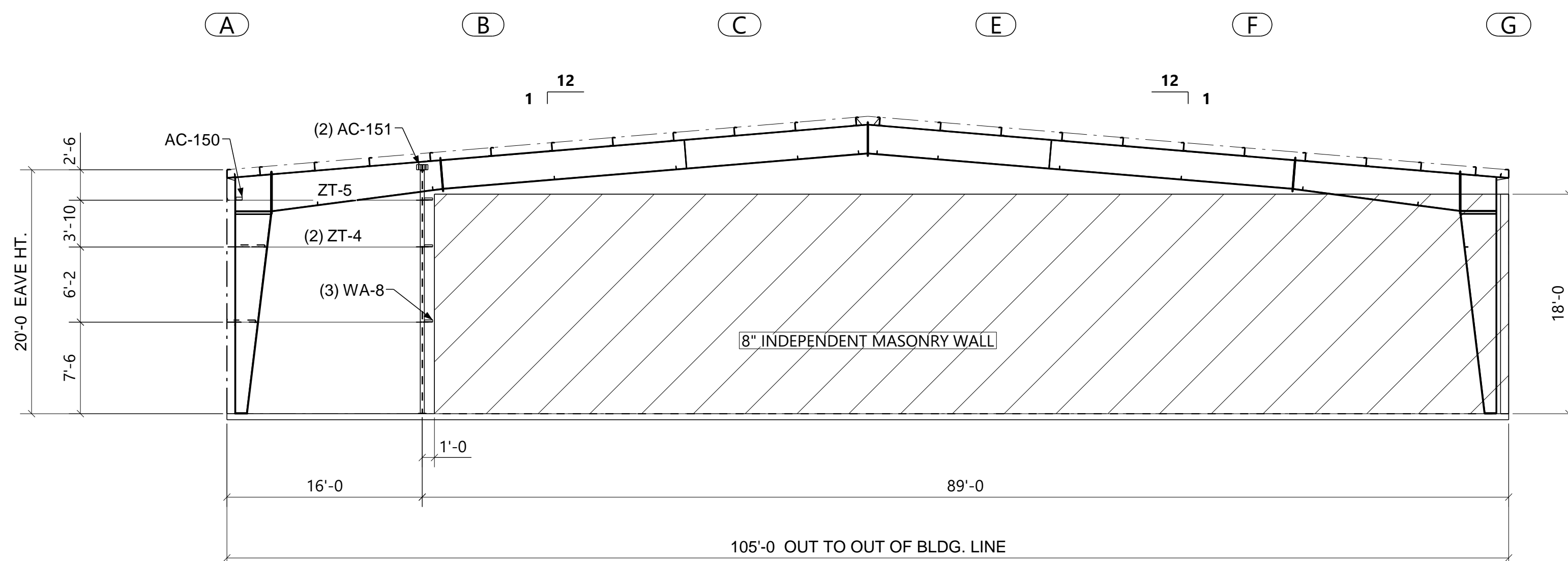
ENDWALL SHEETING AT LINE 1
PANEL: 26Ga 'R' COLOR : REGAL WHITE



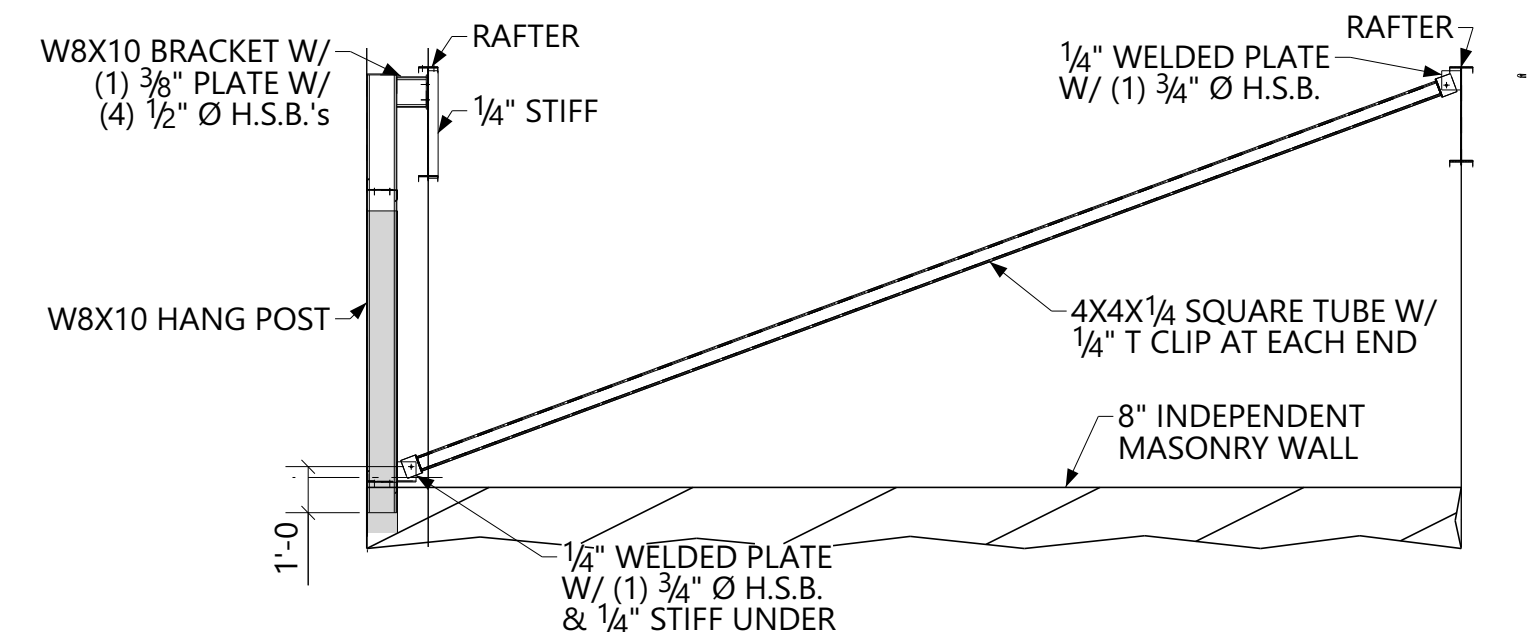
B Trim Detail



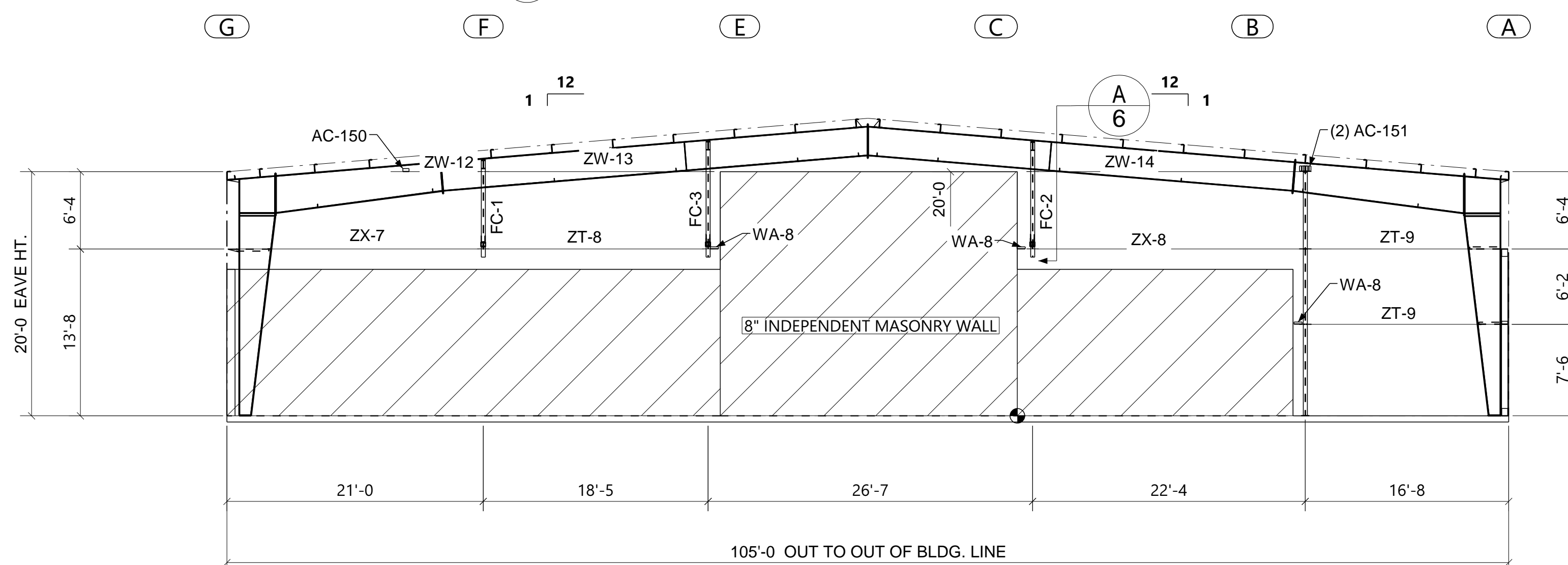
ENDWALL SHEETING AT LINE 7
PANEL: 26Ga 'R' COLOR : REGAL WHITE



ENDWALL ELEVATION AT LINE 1
END POSTS: W8X10



A Hang Post and Kicker Detail



ENDWALL ELEVATION AT LINE 7
HANG POSTS: W8X10
END POST: W8X10

[illegible]




CROSS SECTION AT LINES 2-6

CUSTOMER: ROB KERTH ICE LAND

LOCATION:
SACRAMENTO, CA 95815

CBC JOB No. C22B0182A

DEALER:	R.C. PATTERSON INC
SHEET	OF
8	11



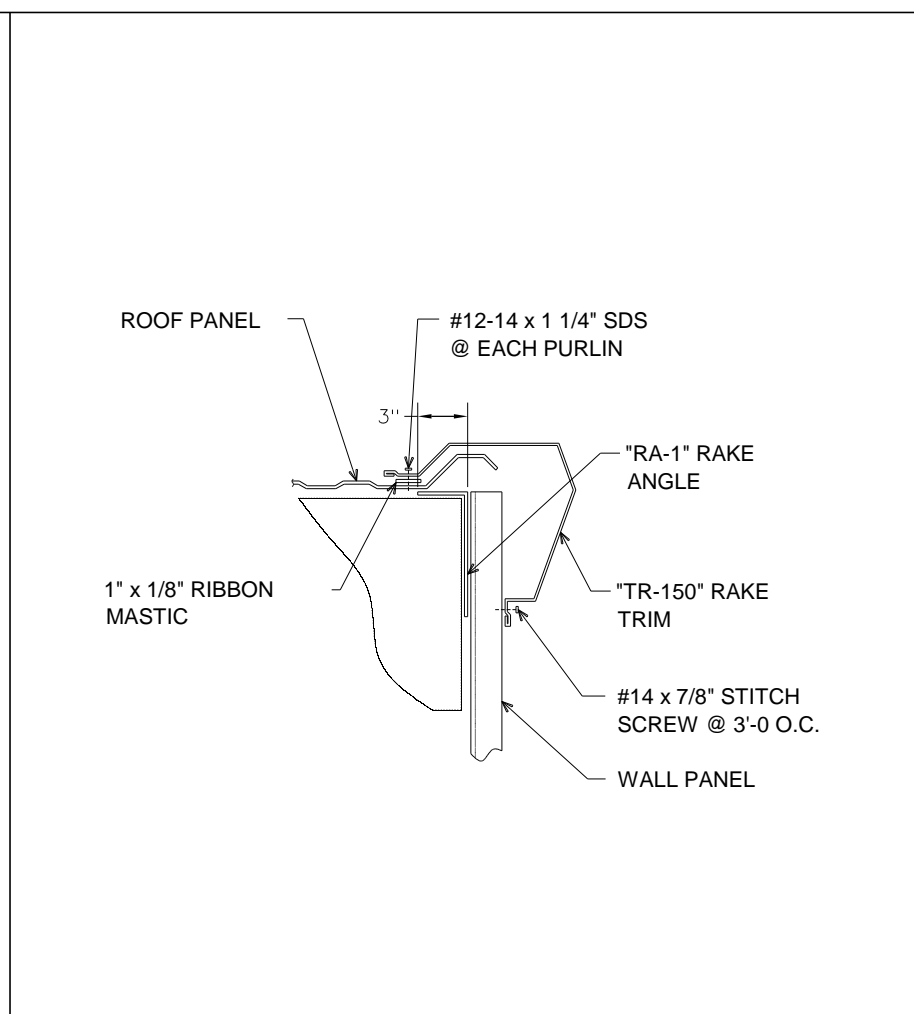
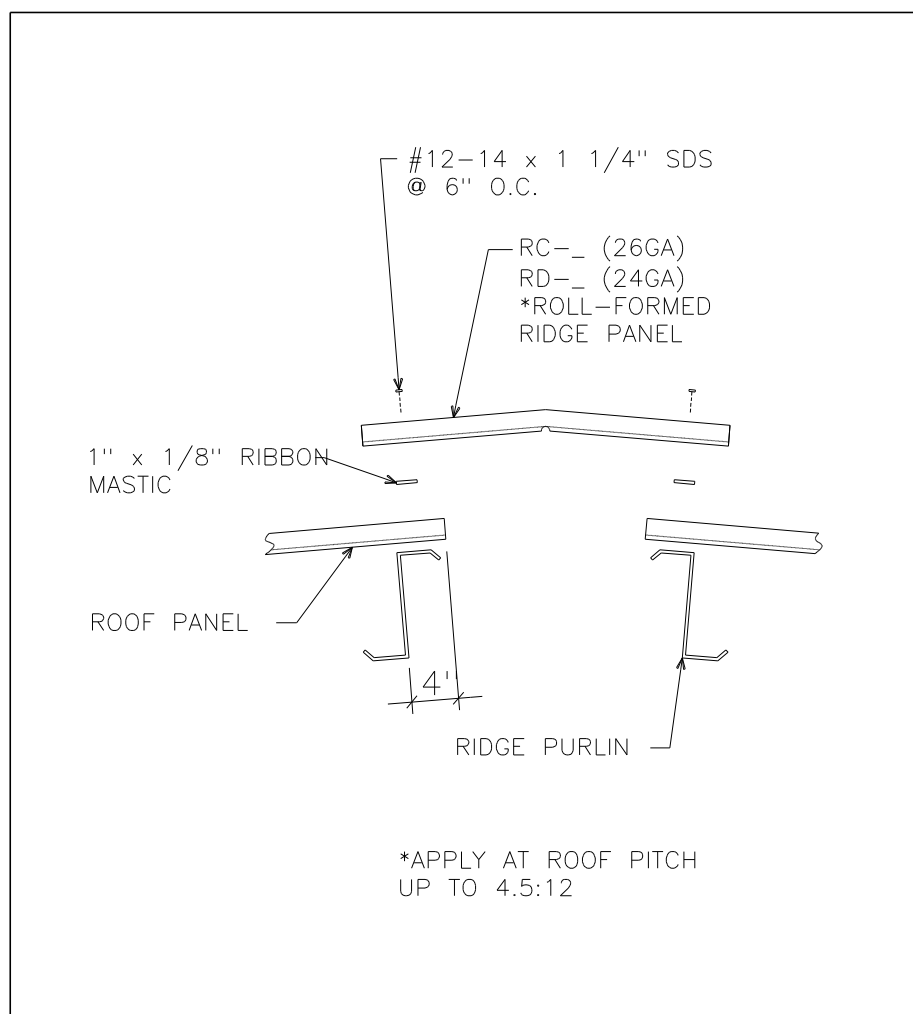
CBC STEEL BUILDINGS
A **NUCOR** Company

MBMA MEMBER
IAS ACCREDITED
 P.O. BOX 1009, LATHROP, CA 95330
 OFFICES/PLANT: 1700 E. LOUISE AVE
 (209) 983-0910 FAX: (209) 858-2354

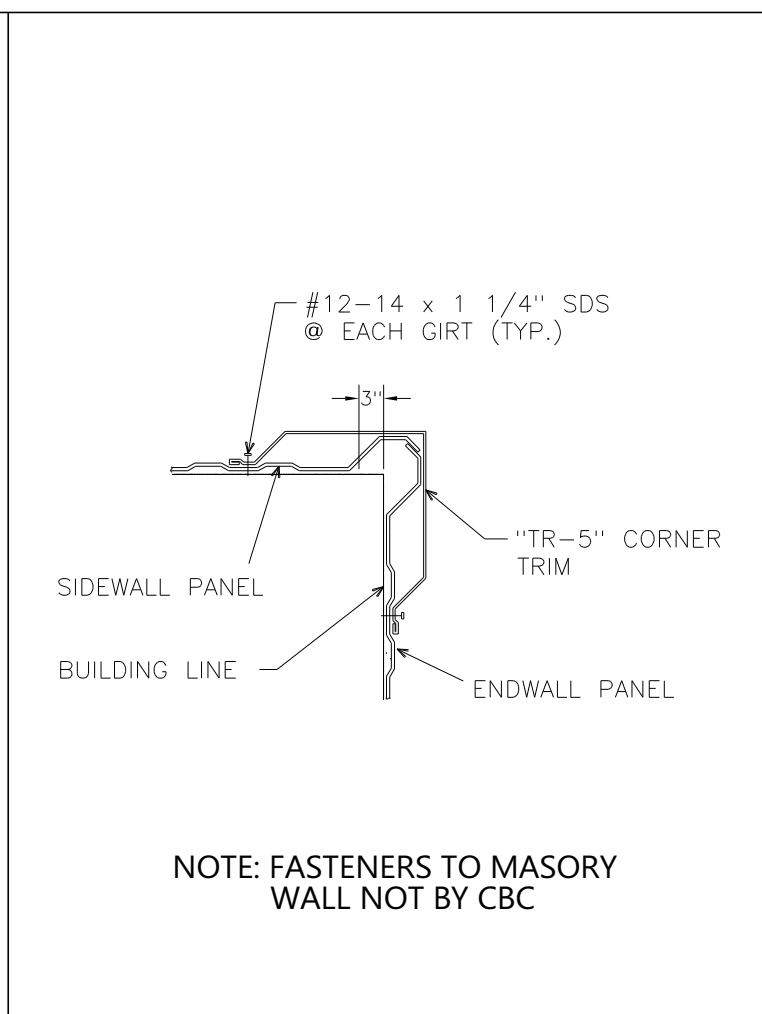
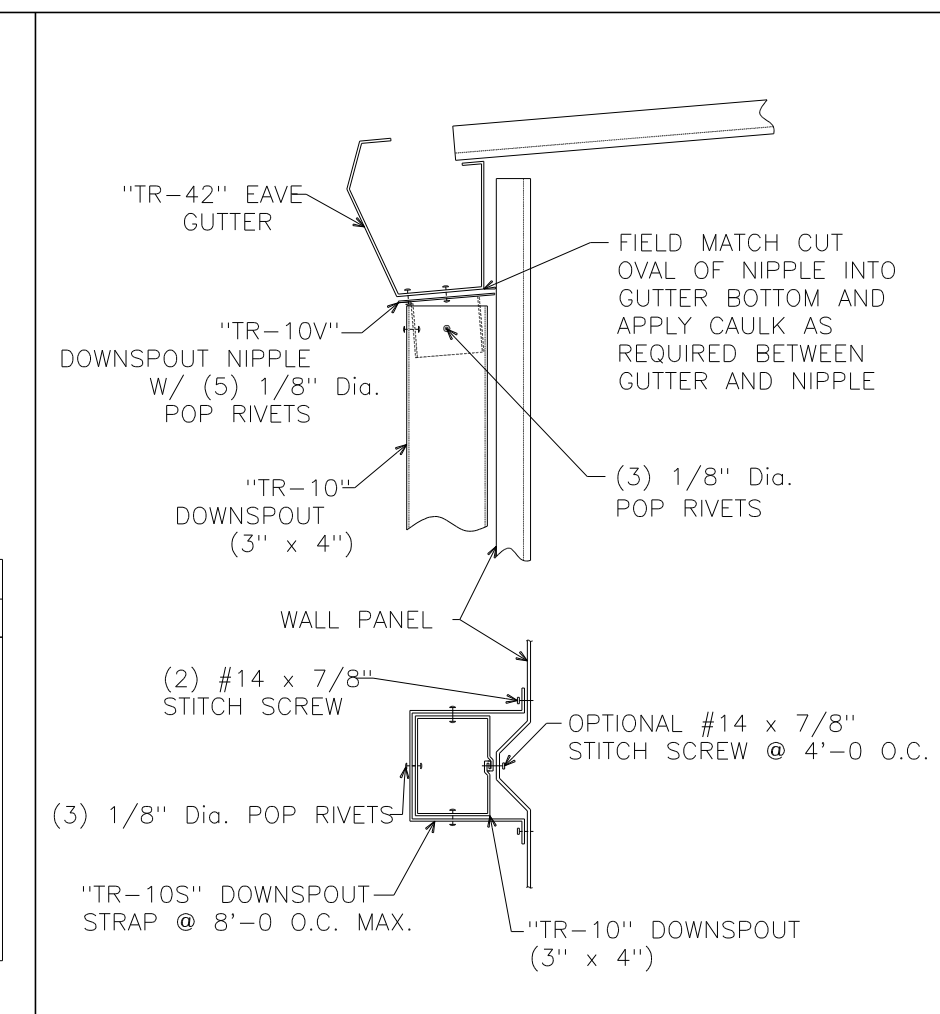
1 DETAILED FOR FABRICATION

11/15/2023: 11:15 AM

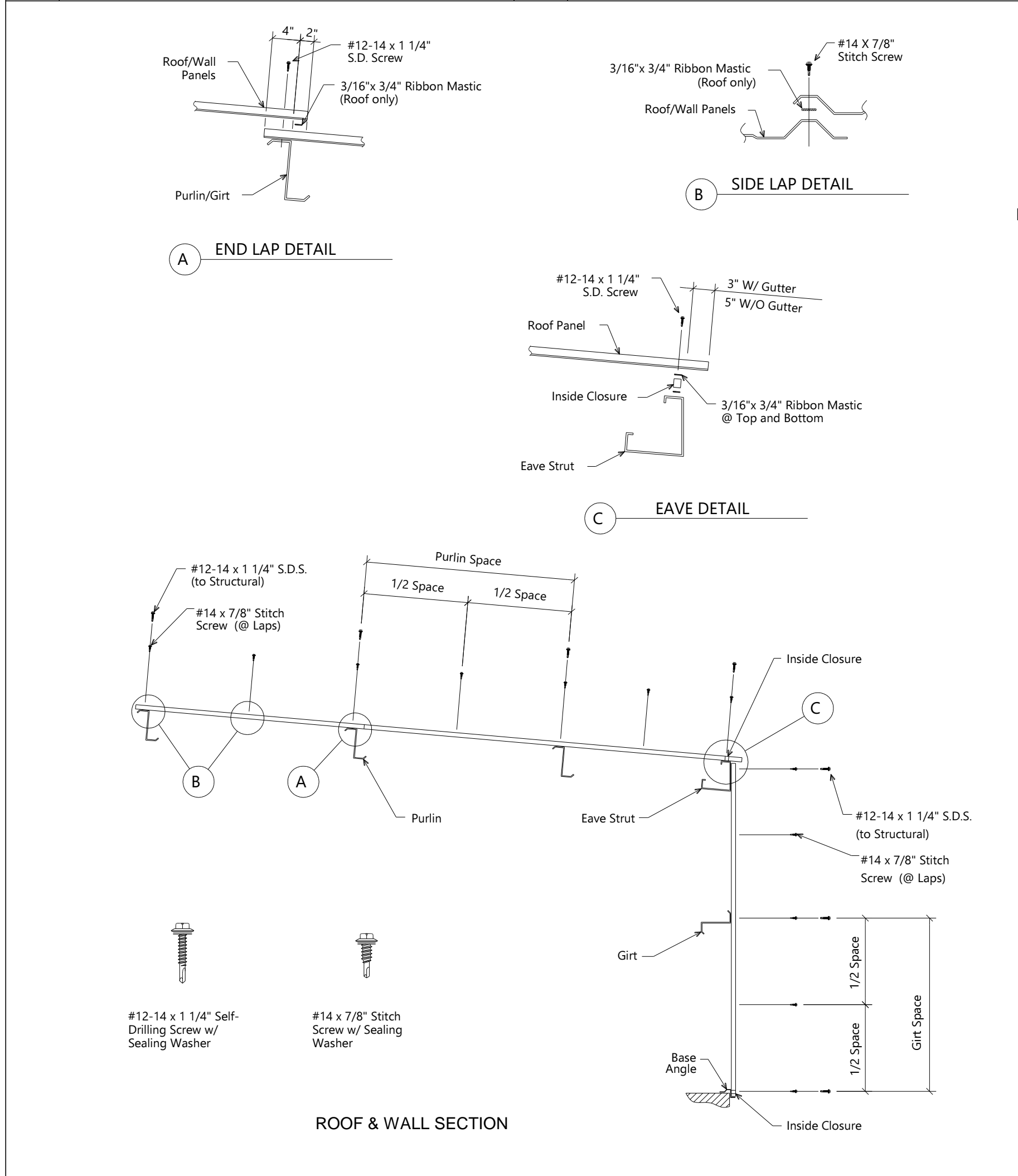
Building Systems
AC 472



8"-CEE" SECTION <p>16 GA. (0.060) $S_{xx} = 1.87 \text{ IN}^3$ $A_e = 0.50 \text{ IN}^2$ 15 GA. (0.067) $S_{xx} = 2.05 \text{ IN}^3$ $A_e = 0.55 \text{ IN}^2$ 14 GA. (0.075) $S_{xx} = 2.52 \text{ IN}^3$ $A_e = 0.74 \text{ IN}^2$ 13 GA. (0.089) $S_{xx} = 2.84 \text{ IN}^3$ $A_e = 0.85 \text{ IN}^2$ 12 GA. (0.099) $S_{xx} = 3.23 \text{ IN}^3$ $A_e = 1.02 \text{ IN}^2$</p> Fy = 55 ksi		8"-ZEE" SECTION <p>16 GA. (0.060) $S_{xx} = 1.72 \text{ IN}^3$ $A_e = 0.44 \text{ IN}^2$ 15 GA. (0.067) $S_{xx} = 1.97 \text{ IN}^3$ $A_e = 0.52 \text{ IN}^2$ 14 GA. (0.075) $S_{xx} = 2.33 \text{ IN}^3$ $A_e = 0.65 \text{ IN}^2$ 13 GA. (0.089) $S_{xx} = 2.74 \text{ IN}^3$ $A_e = 0.80 \text{ IN}^2$ 12 GA. (0.099) $S_{xx} = 3.15 \text{ IN}^3$ $A_e = 0.97 \text{ IN}^2$</p> Fy = 55 ksi		9 1/2"-CEE" SECTION <p>16 GA. (0.060) $S_{xx} = 2.11 \text{ IN}^3$ $A_e = 0.49 \text{ IN}^2$ 15 GA. (0.067) $S_{xx} = 2.57 \text{ IN}^3$ $A_e = 0.58 \text{ IN}^2$ 14 GA. (0.075) $S_{xx} = 3.19 \text{ IN}^3$ $A_e = 0.73 \text{ IN}^2$ 13 GA. (0.089) $S_{xx} = 3.70 \text{ IN}^3$ $A_e = 0.89 \text{ IN}^2$ 12 GA. (0.099) $S_{xx} = 4.32 \text{ IN}^3$ $A_e = 1.10 \text{ IN}^2$</p> Fy = 55 ksi		9 1/2"-ZEE" SECTION <p>16 GA. (0.060) $S_{xx} = 2.16 \text{ IN}^3$ $A_e = 0.48 \text{ IN}^2$ 15 GA. (0.067) $S_{xx} = 2.57 \text{ IN}^3$ $A_e = 0.56 \text{ IN}^2$ 14 GA. (0.075) $S_{xx} = 3.17 \text{ IN}^3$ $A_e = 0.69 \text{ IN}^2$ 13 GA. (0.089) $S_{xx} = 3.71 \text{ IN}^3$ $A_e = 0.86 \text{ IN}^2$ 12 GA. (0.099) $S_{xx} = 4.29 \text{ IN}^3$ $A_e = 1.03 \text{ IN}^2$</p> Fy = 55 ksi			
12"-CEE" SECTION <p>13 GA. (0.089) $S_{xx} = 5.80 \text{ IN}^3$ $A_e = 1.76 \text{ IN}^2$ 12 GA. (0.099) $S_{xx} = 6.64 \text{ IN}^3$ $A_e = 1.96 \text{ IN}^2$ 11 GA. $S_{xx} = 7.96 \text{ IN}^3$ $A_e = 2.37 \text{ IN}^2$</p> Fy = 55 ksi		12"-ZEE" SECTION <p>13 GA. (0.089) $S_{xx} = 5.34 \text{ IN}^3$ $A_e = 1.76 \text{ IN}^2$ 12 GA. (0.099) $S_{xx} = 6.21 \text{ IN}^3$ $A_e = 1.96 \text{ IN}^2$ 11 GA. $S_{xx} = 7.81 \text{ IN}^3$ $A_e = 2.37 \text{ IN}^2$</p> Fy = 55 ksi		"ZEE" RAKEBEAM SECTION <p>14 GA. (0.075) $S_{xx} = 3.956 \text{ IN}^3$ (TOP IN COMP.) $S_{xx} = 3.740 \text{ IN}^3$ (BOTTOM IN COMP.) $A_e = 0.668 \text{ IN}^2$ 12 GA. (0.099) $S_{xx} = 6.057 \text{ IN}^3$ (TOP IN COMP.) $S_{xx} = 5.219 \text{ IN}^3$ (BOTTOM IN COMP.) $A_e = 1.141 \text{ IN}^2$</p> Fy = 55 ksi		8"-GEE" SECTION <p>16 GA. (0.060) $S_{xx} = 1.74 \text{ IN}^3$ (TOP IN COMP.) $S_{xx} = 2.51 \text{ IN}^3$ (BOTTOM IN COMP.) $A_e = 0.63 \text{ IN}^2$</p> Fy = 55 ksi		9 1/2"-GEE" SECTION <p>14 GA. (0.075) $S_{xx} = 2.88 \text{ IN}^3$ (TOP IN COMP.) $S_{xx} = 4.66 \text{ IN}^3$ (BOTTOM IN COMP.) $A_e = 0.93 \text{ IN}^2$</p> Fy = 55 ksi	



1	<u>RIDGE CAP</u>	2	RAKE TRIM	3	STRUCTURAL PROPERTIES	6	<u>DOWNSPOUT</u>	7	<u>CORNER TRIM</u>
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Fastener Spacing @ Ridge Purlin, End Laps, Eave Strut, & Base Angle

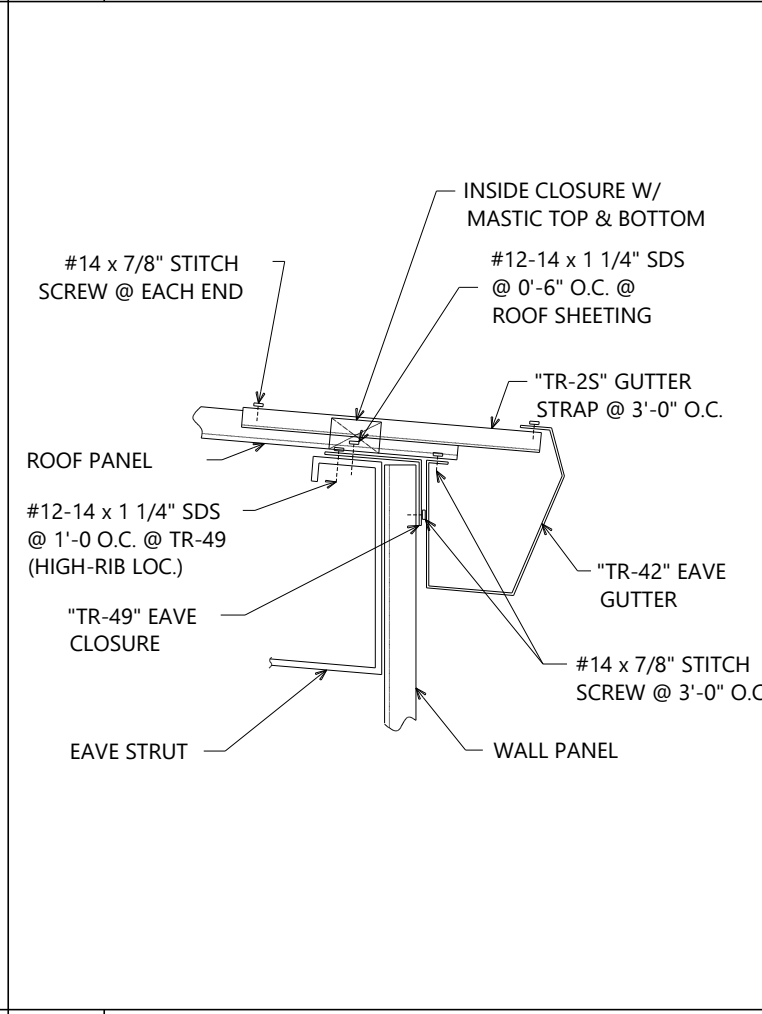
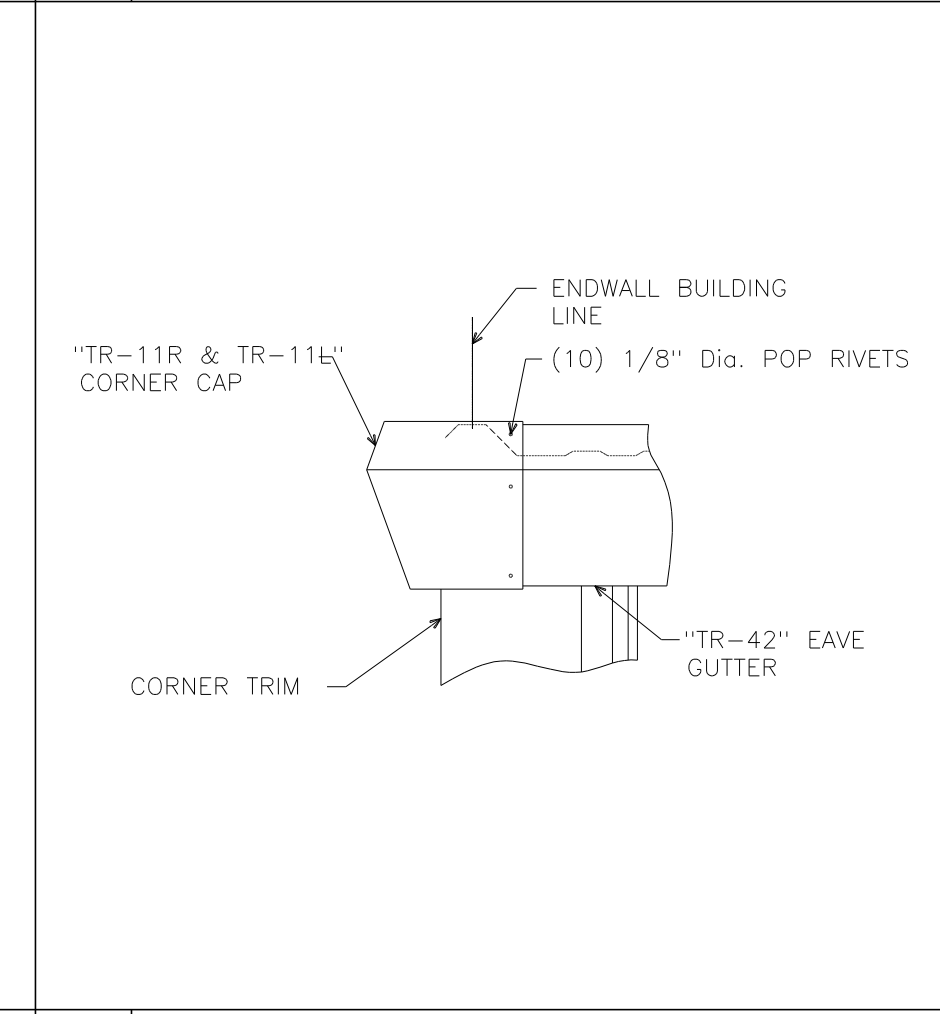
Fastener Spacing @ Intermediate Purlins & Girts

SS24 / MS24 PANEL PROPERTIES							
GAGE	Fy	Design Thickness	Weight (P.S.F.)	TOP IN COMPRESSION		BOTTOM IN COMPRESSION	
				$\frac{I_x}{(in^2 / ft.)}$	$\frac{S_x}{(in^3 / ft.)}$	$\frac{I_x}{(in^2 / ft.)}$	$\frac{S_x}{(in^3 / ft.)}$
24	50 ksi	.0225	1.20	0.276	0.111	0.126	0.079
22	50 ksi	.030	1.58	0.371	0.152	0.177	0.108

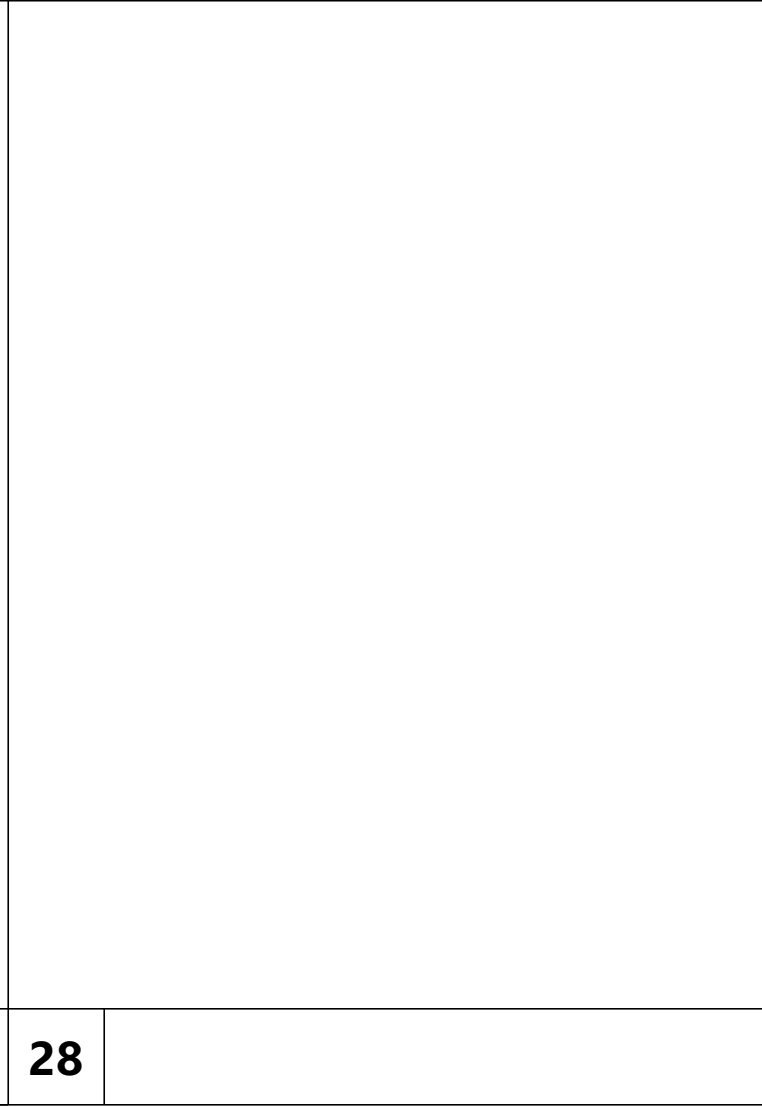
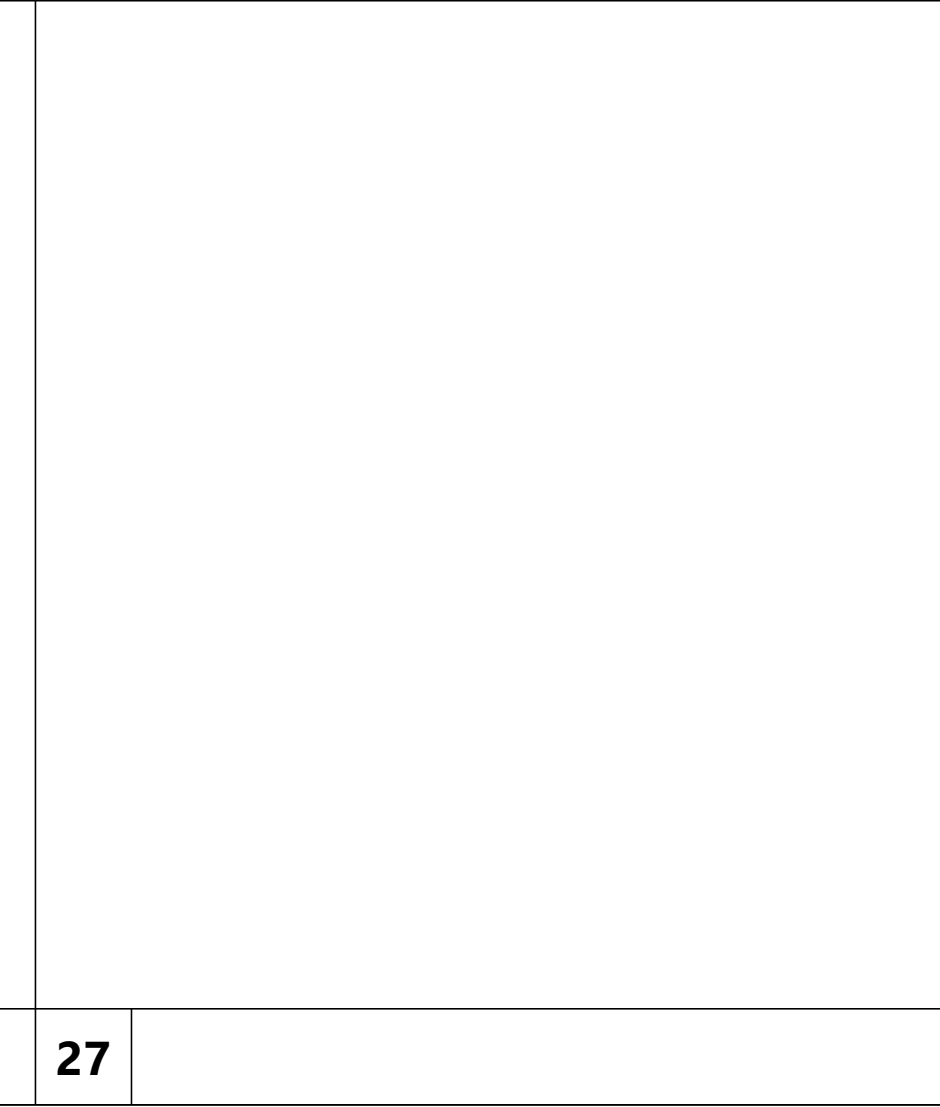
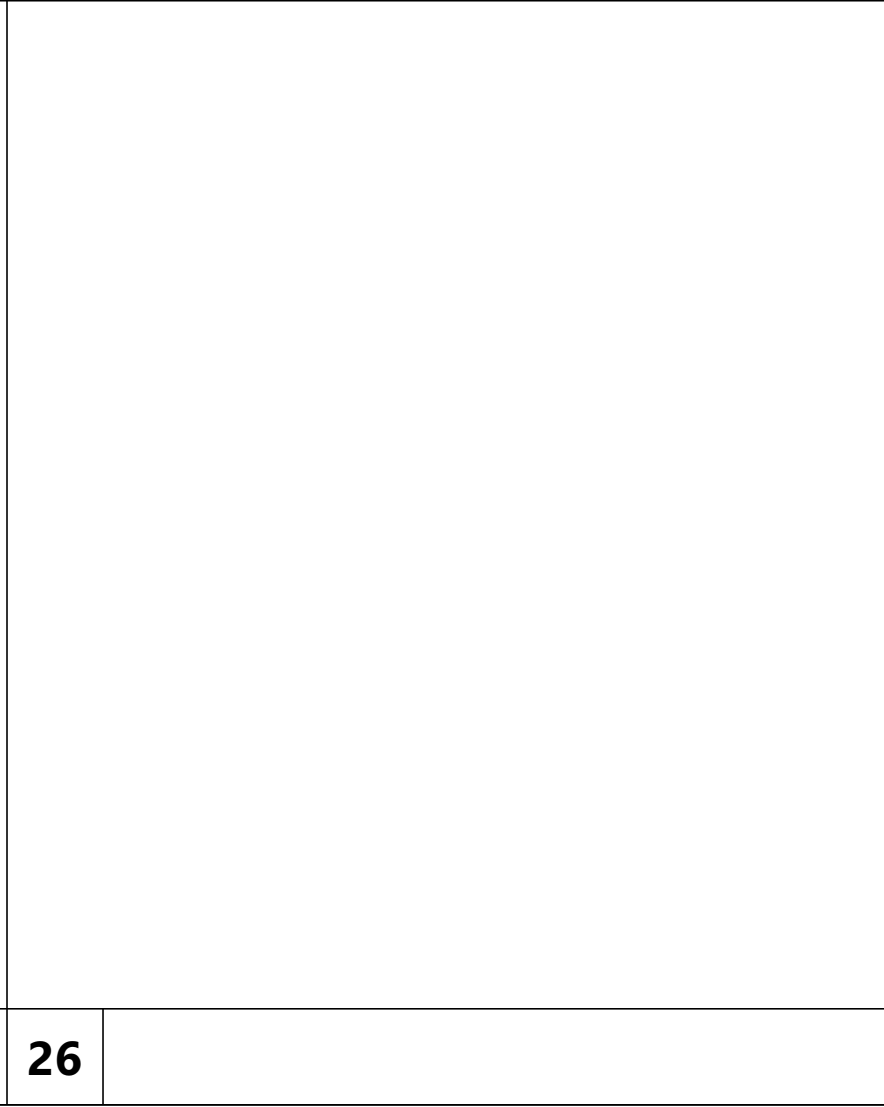
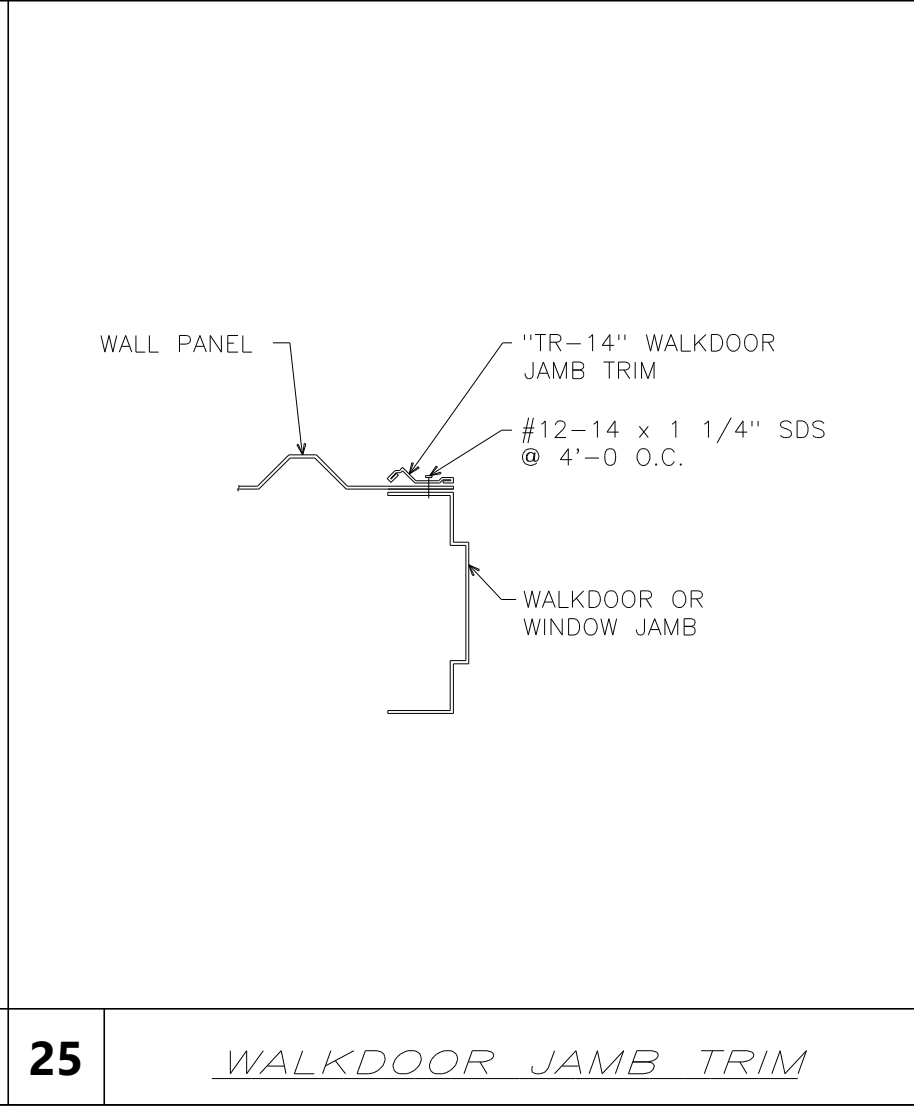
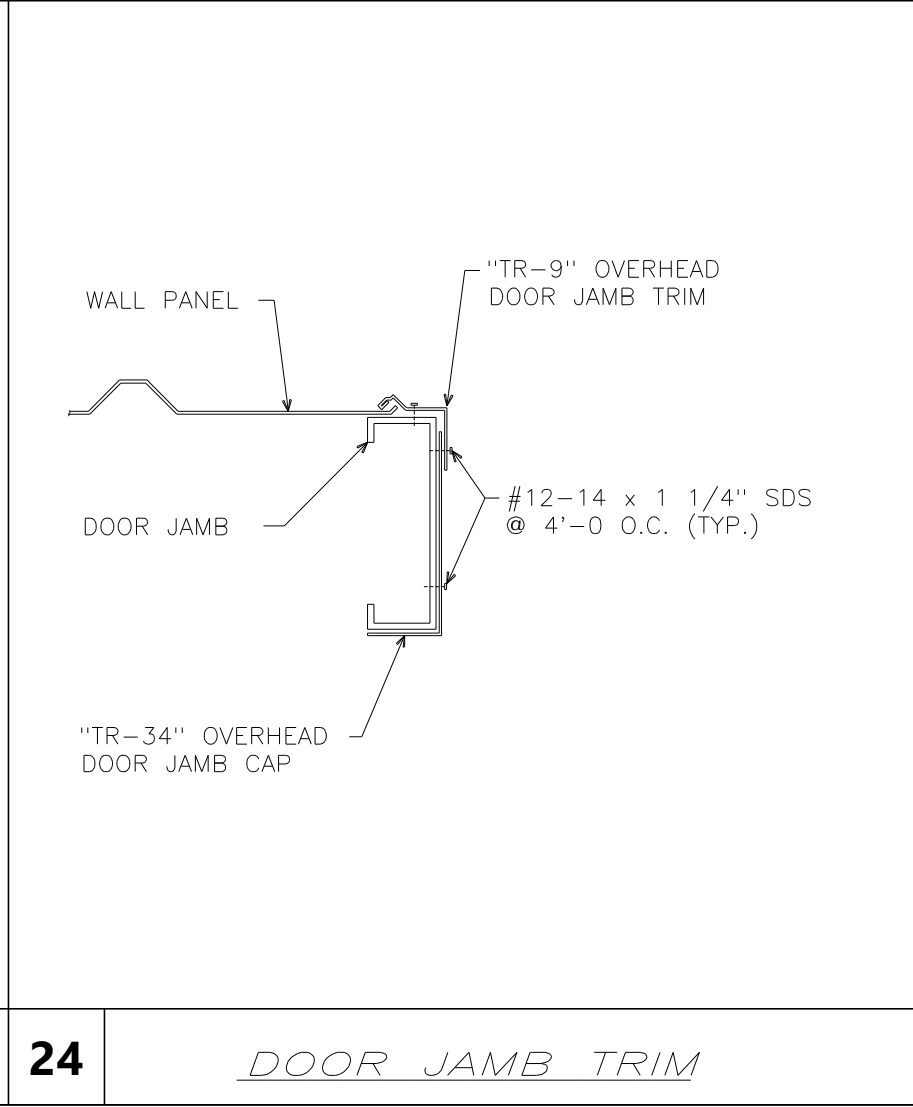
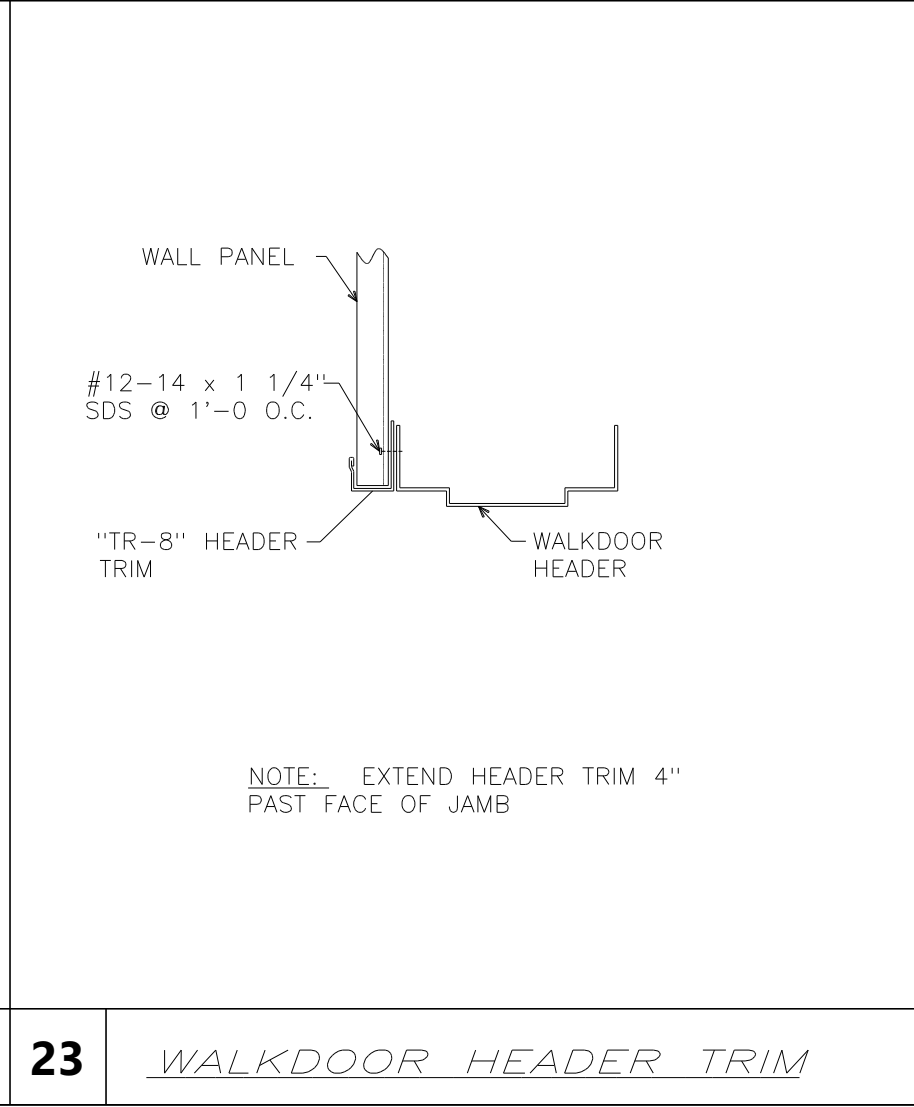
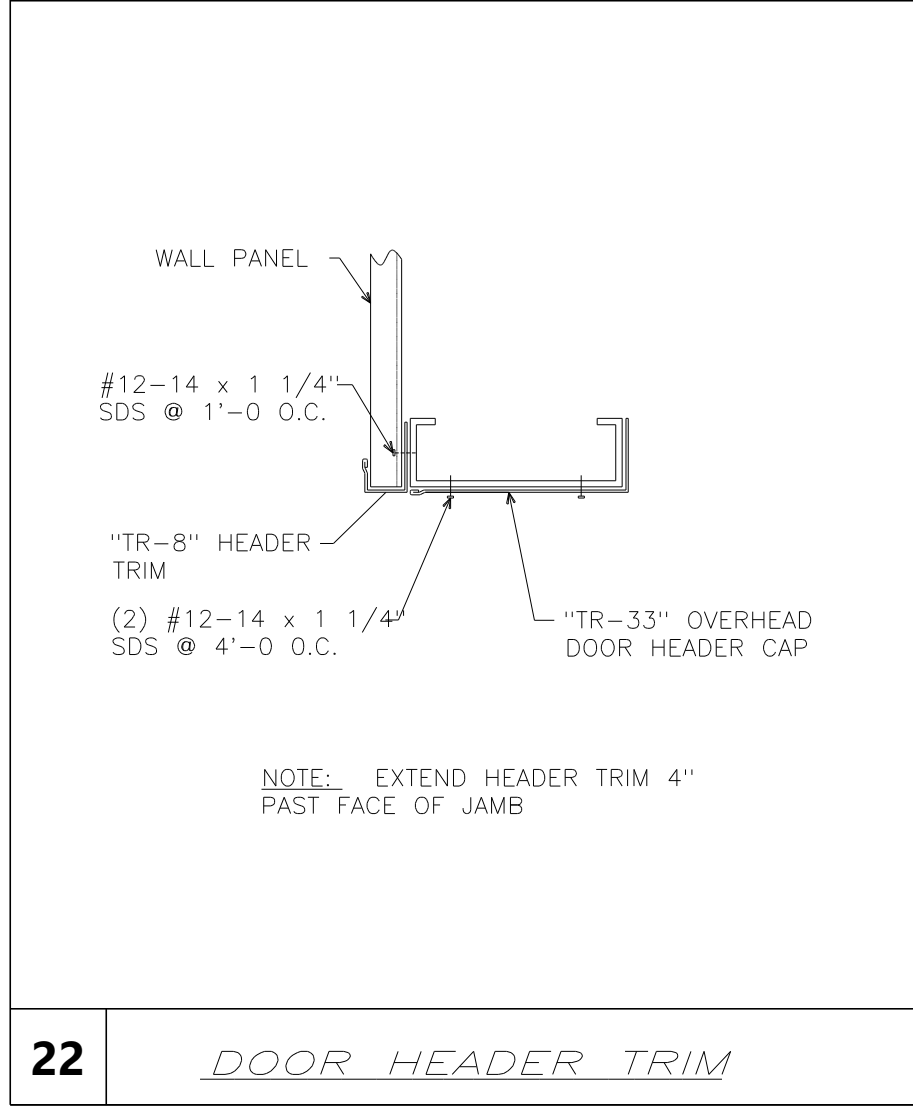
ROOF PANELS

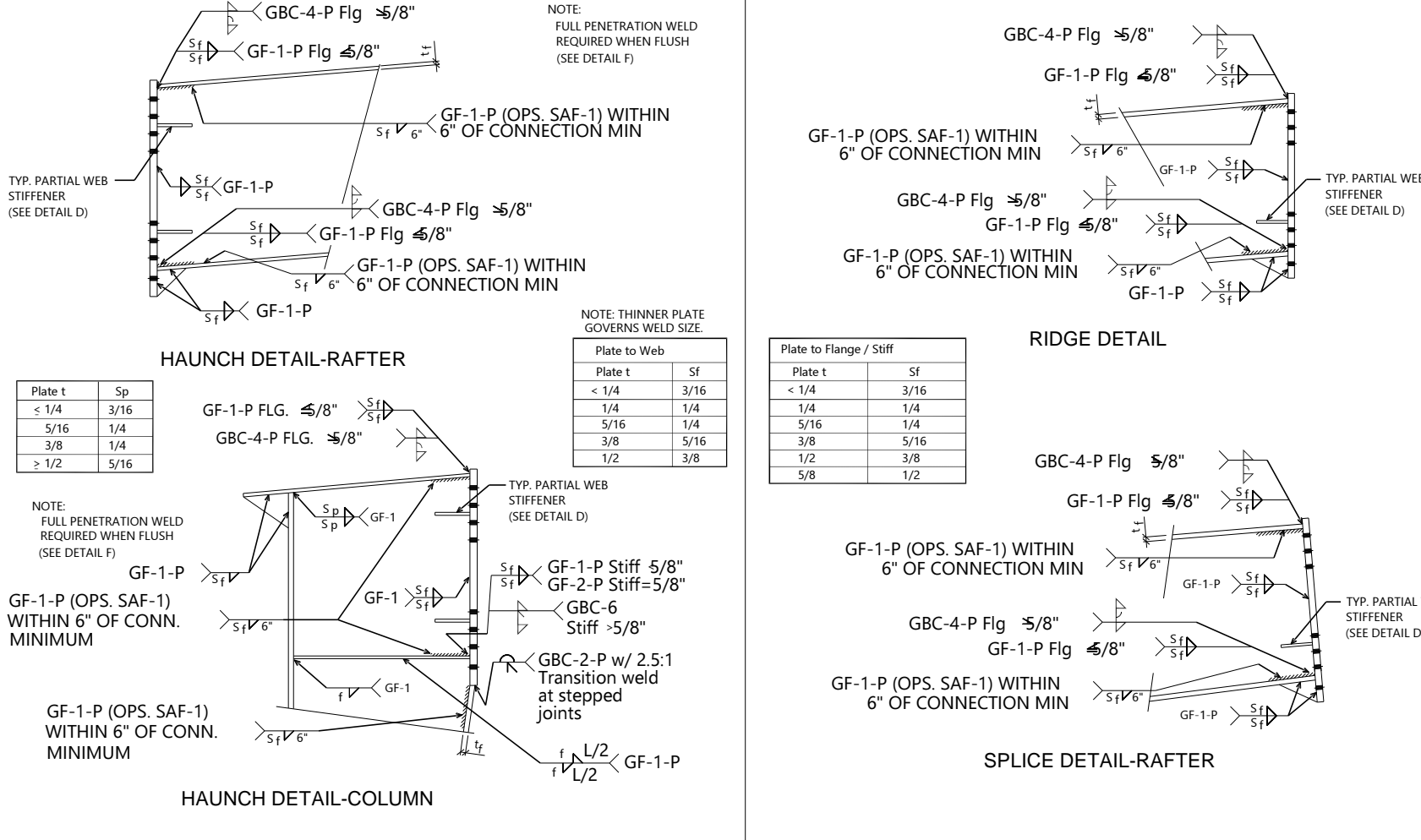
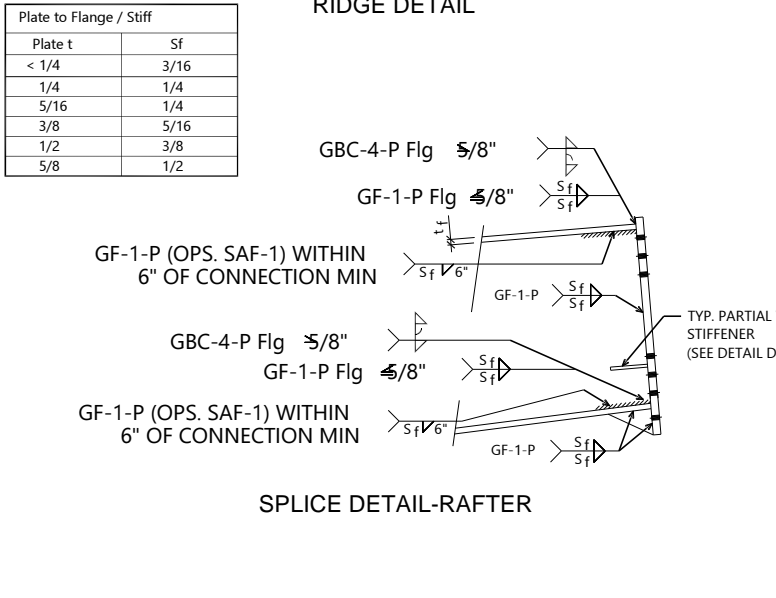
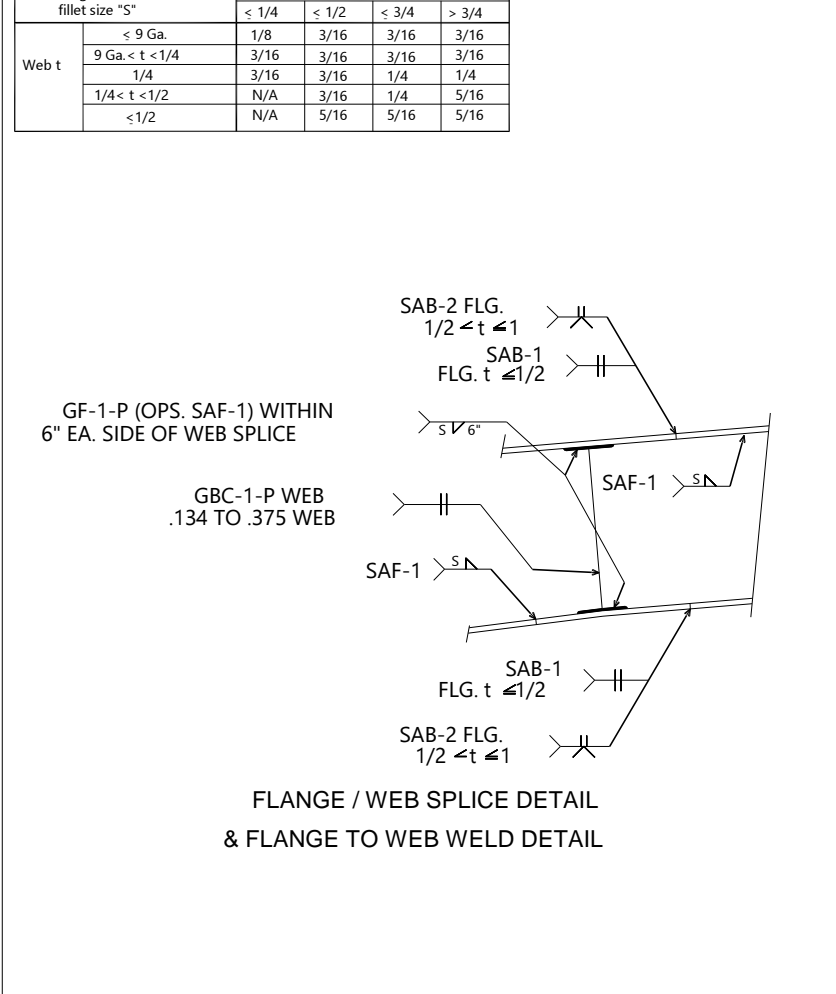
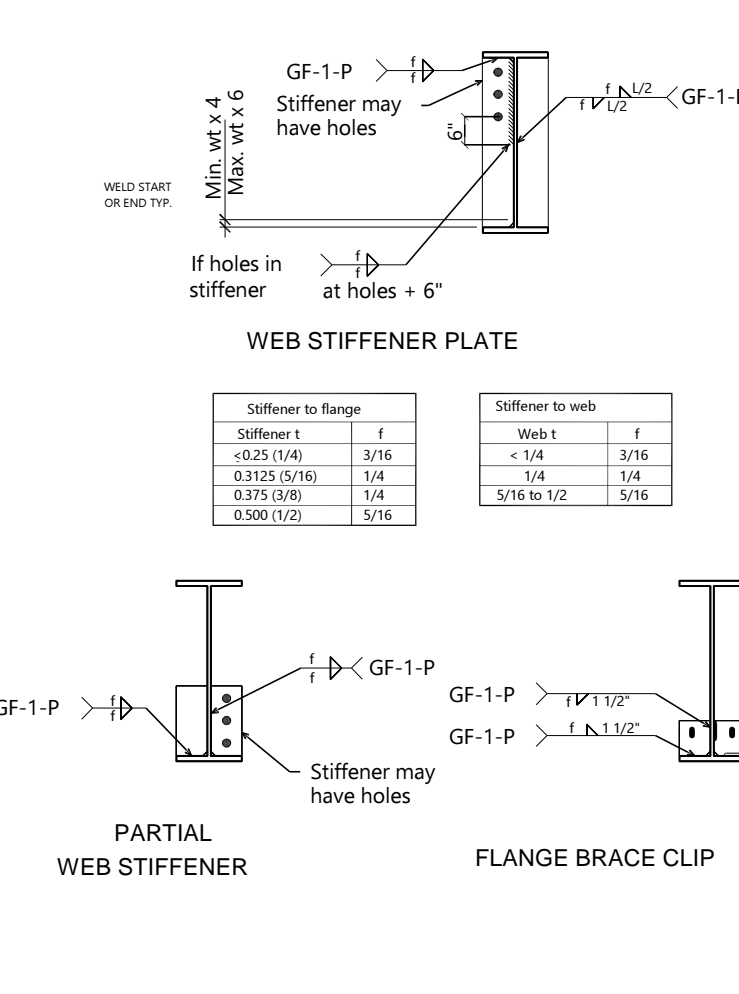
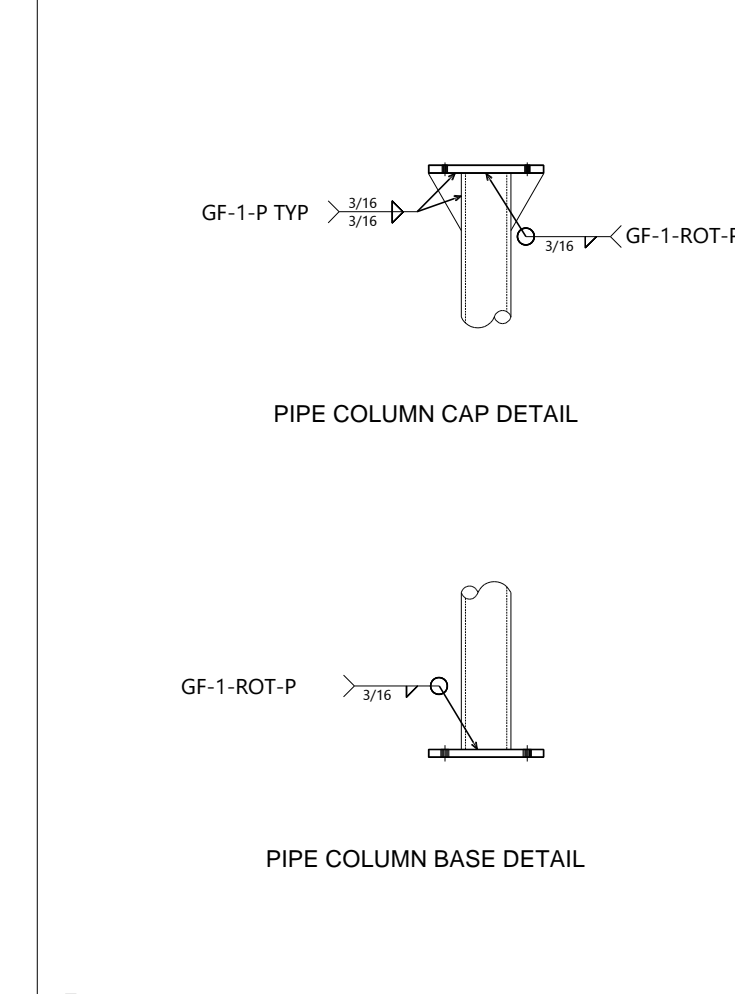
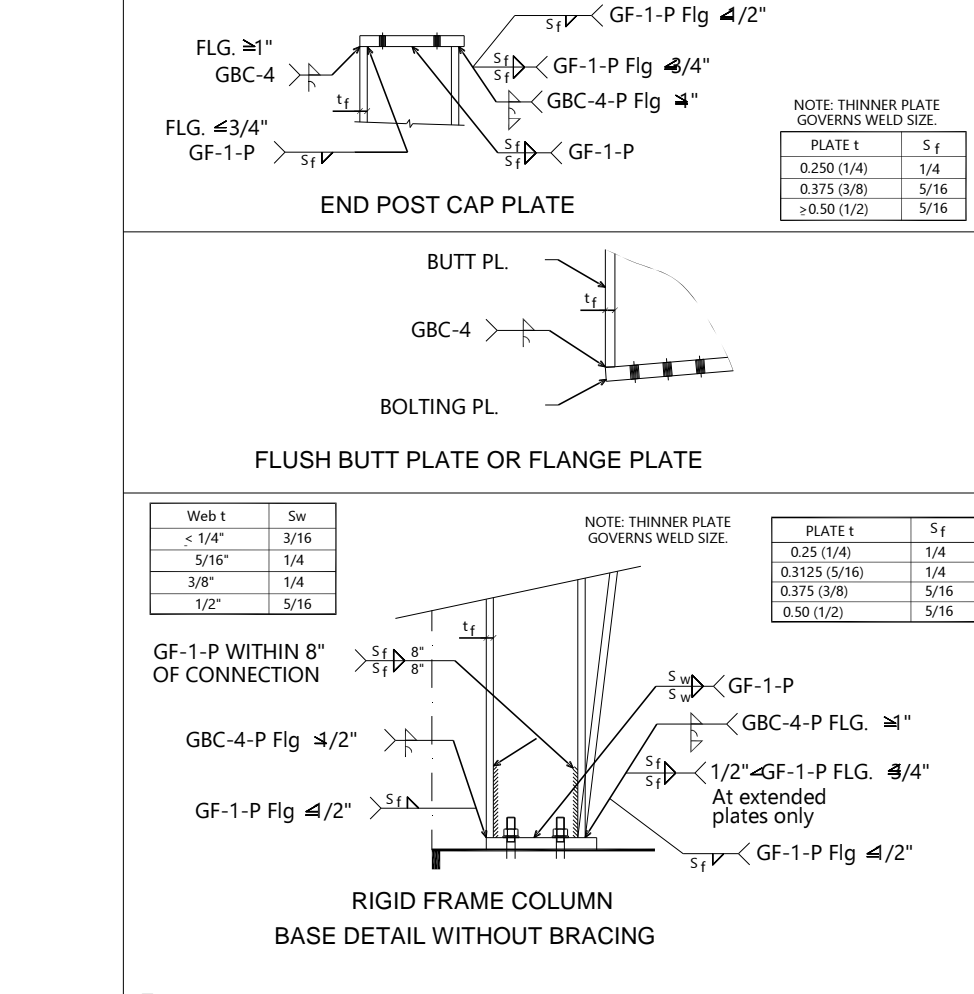
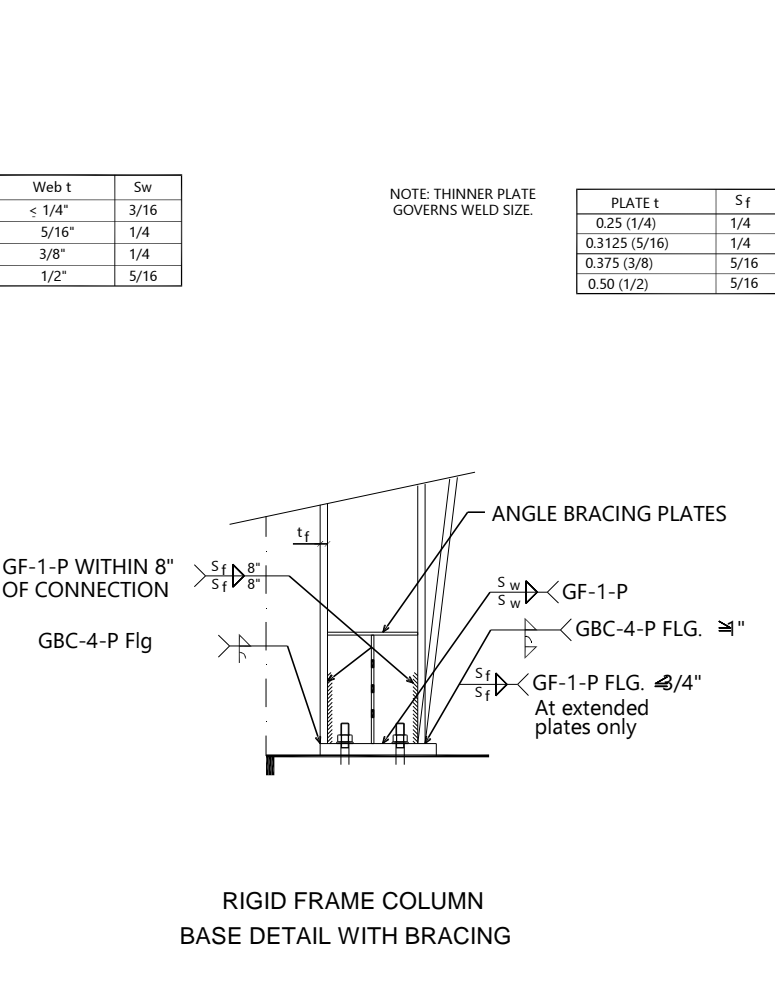
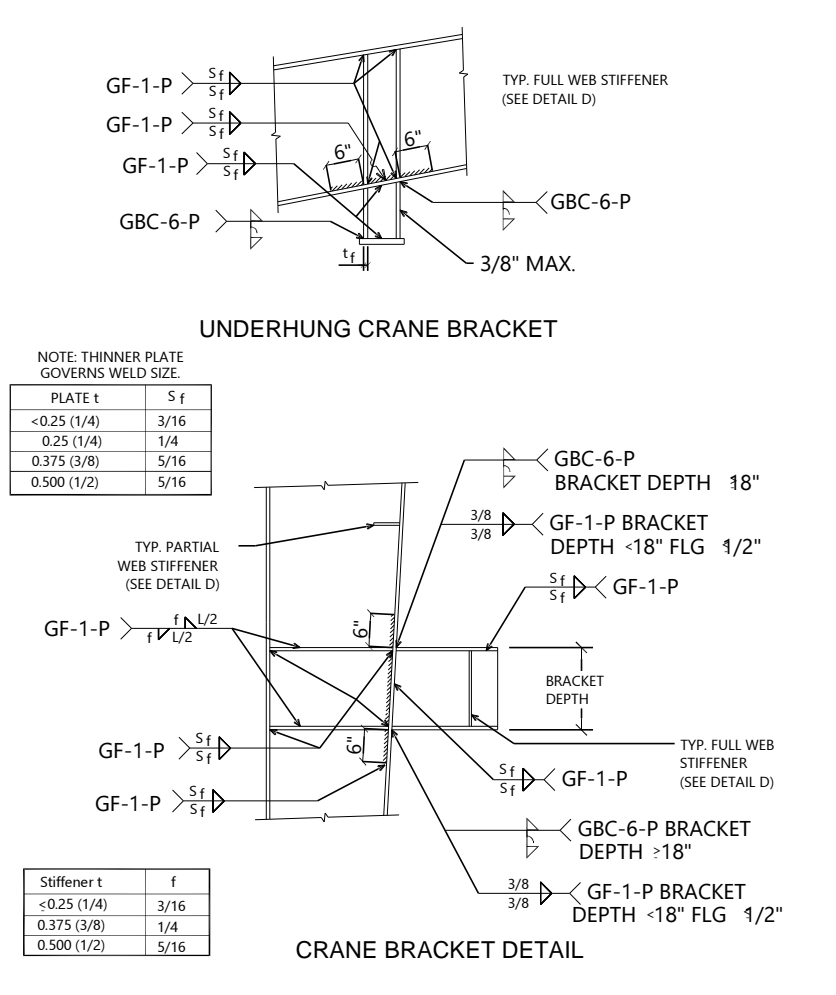
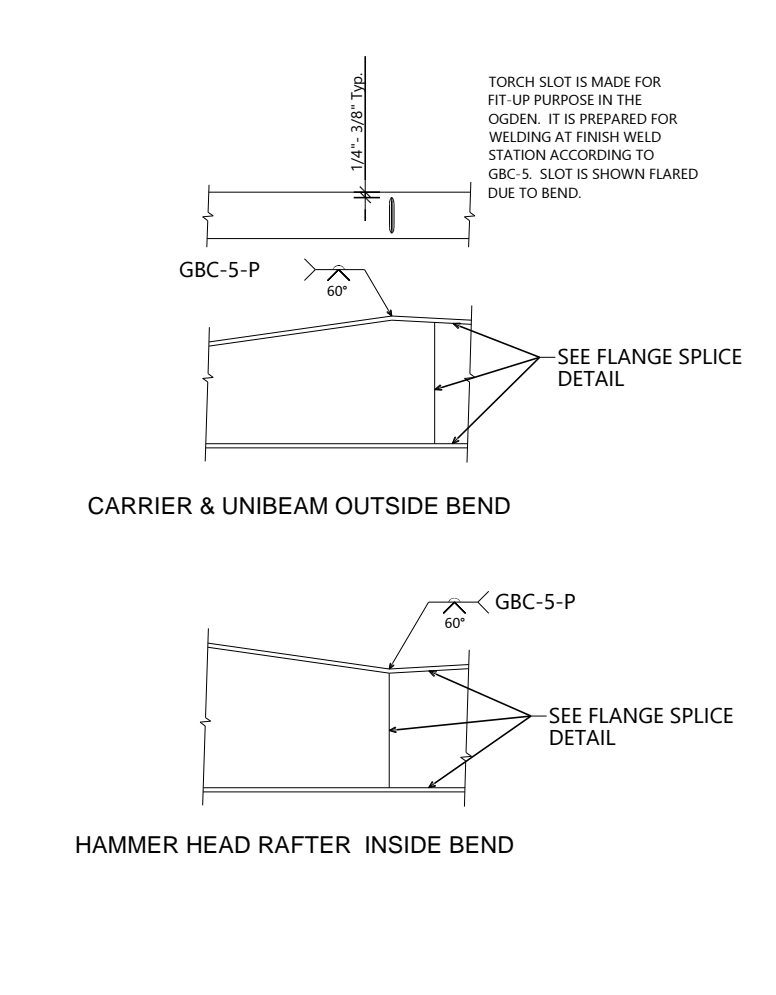
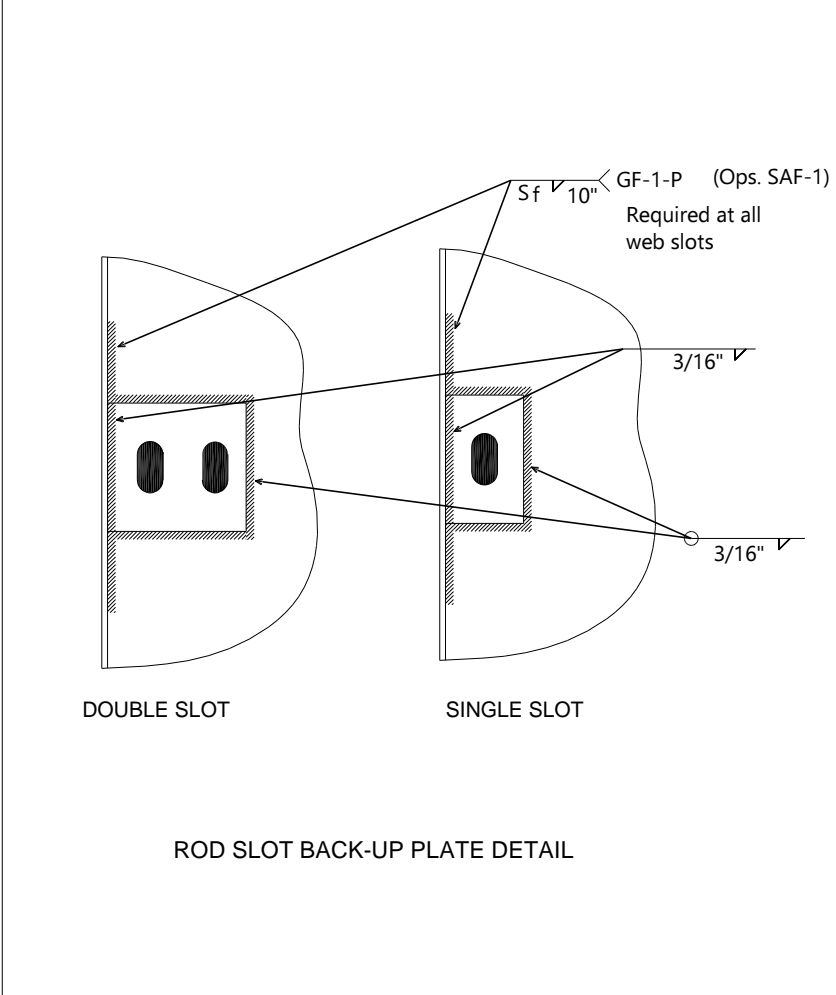
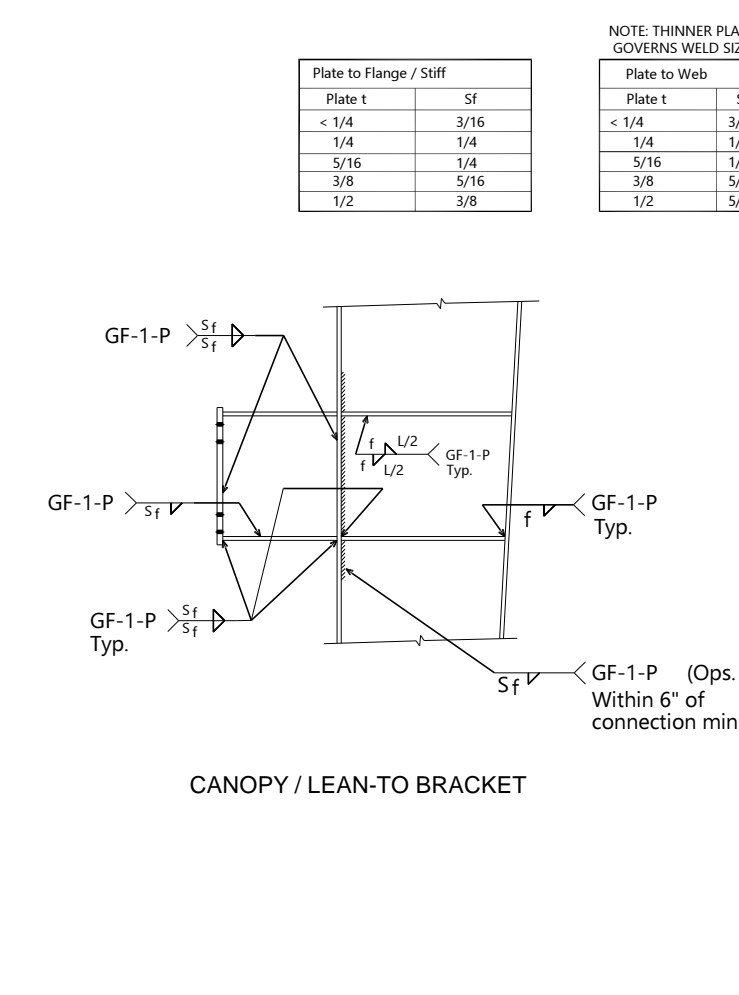
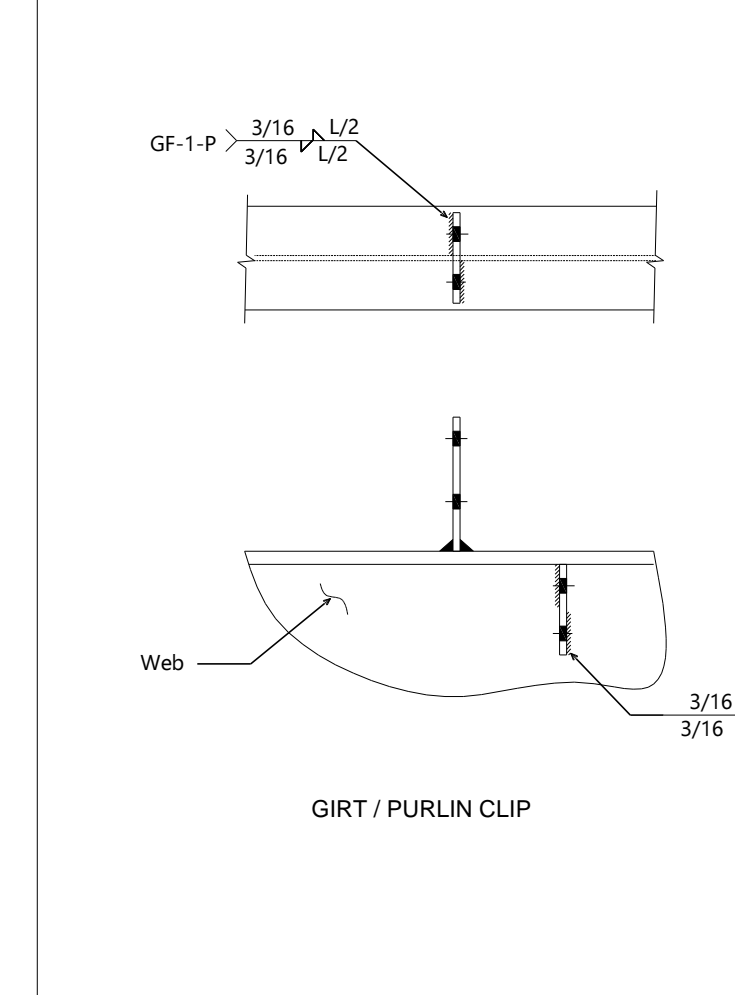
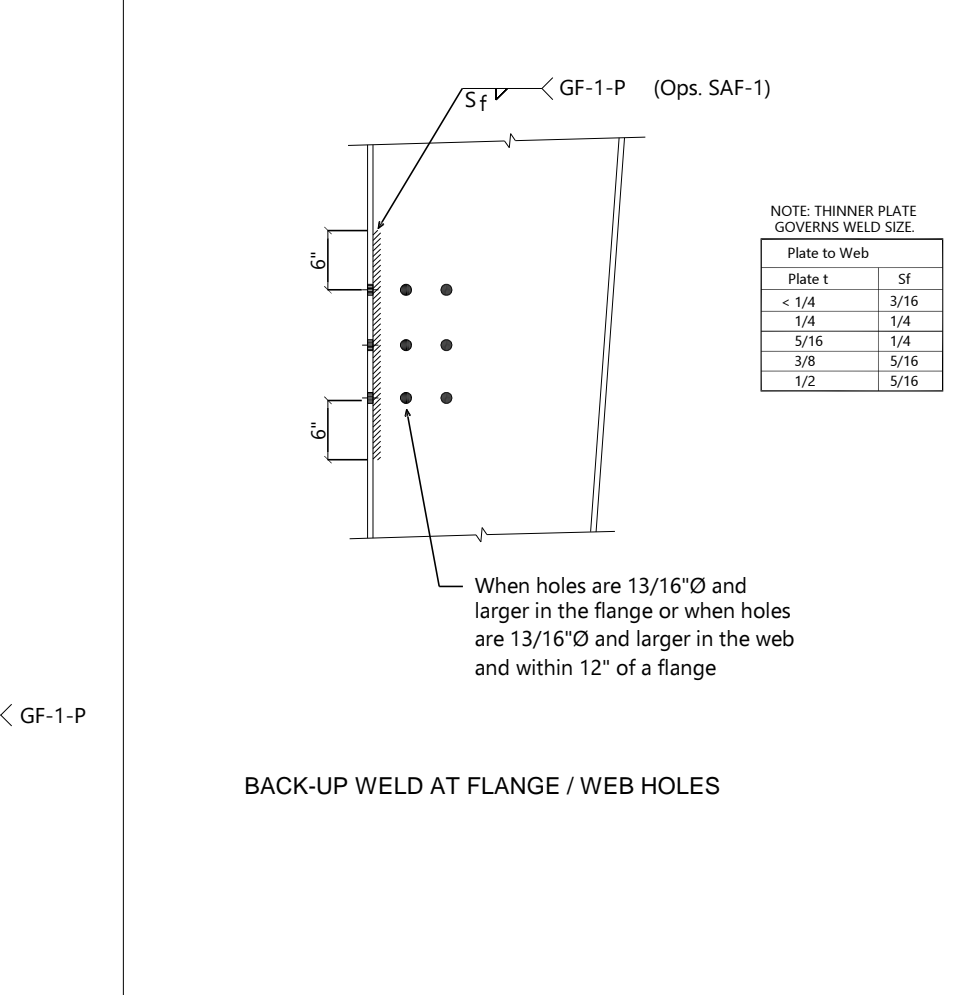
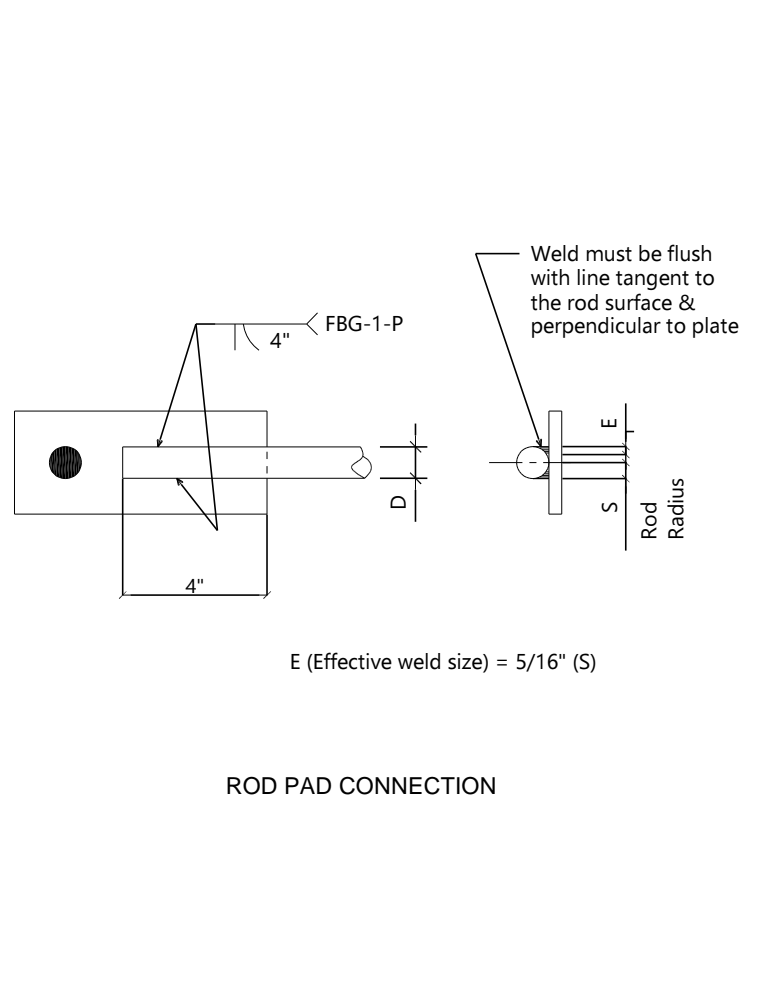
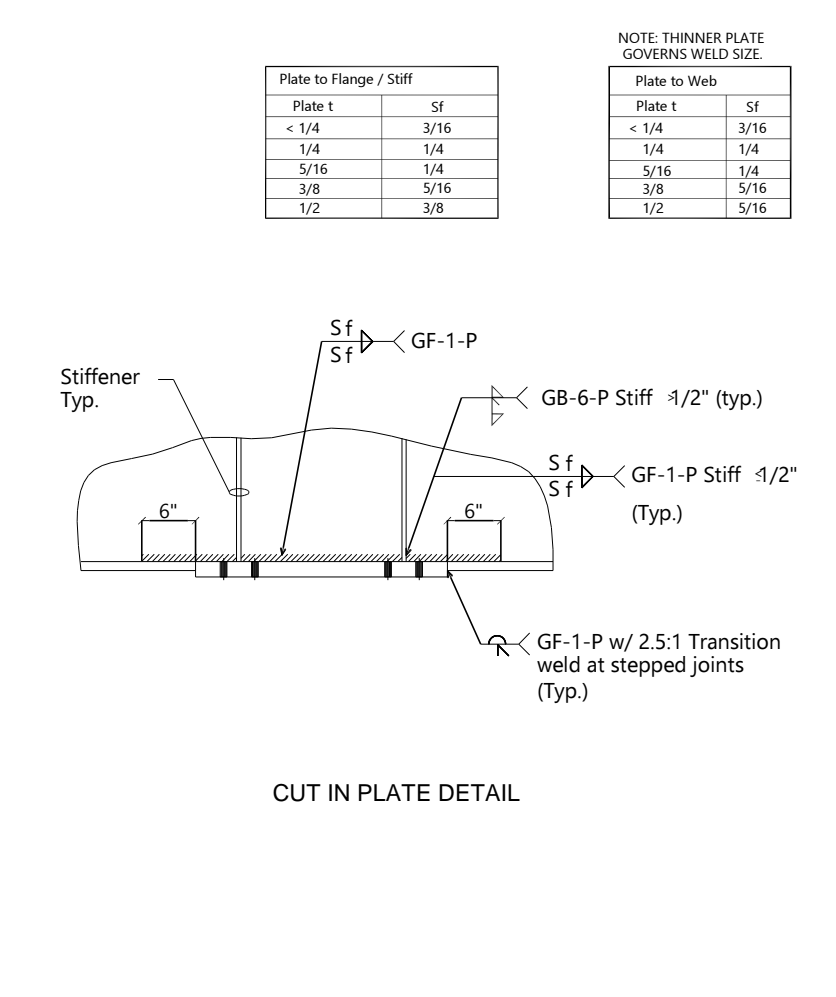
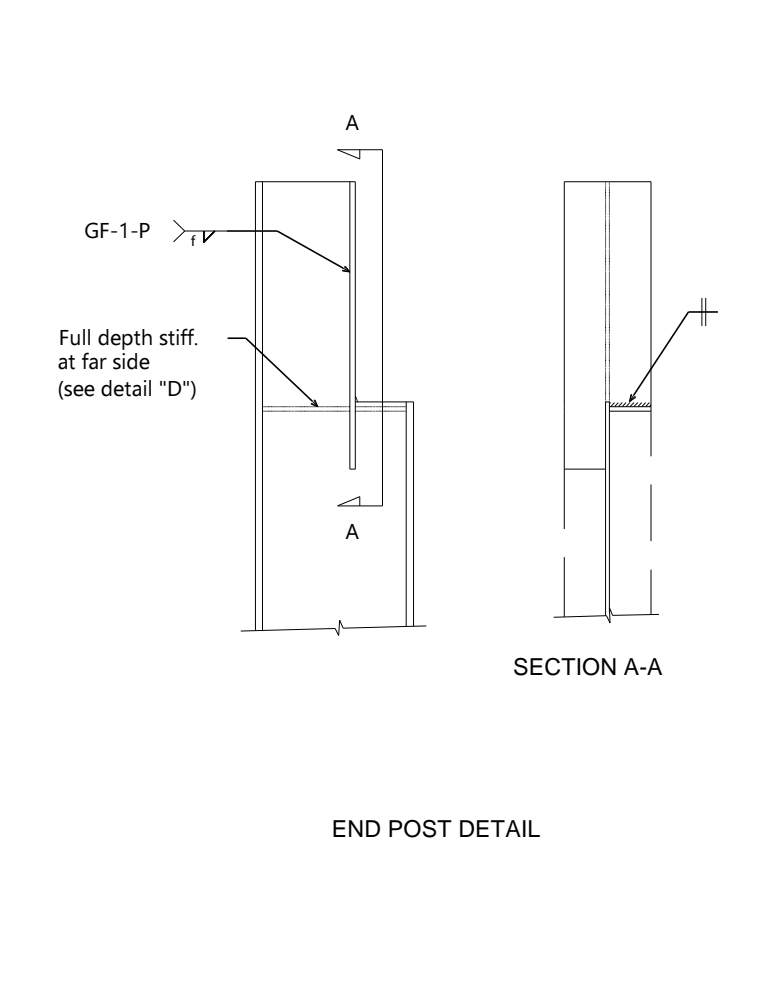
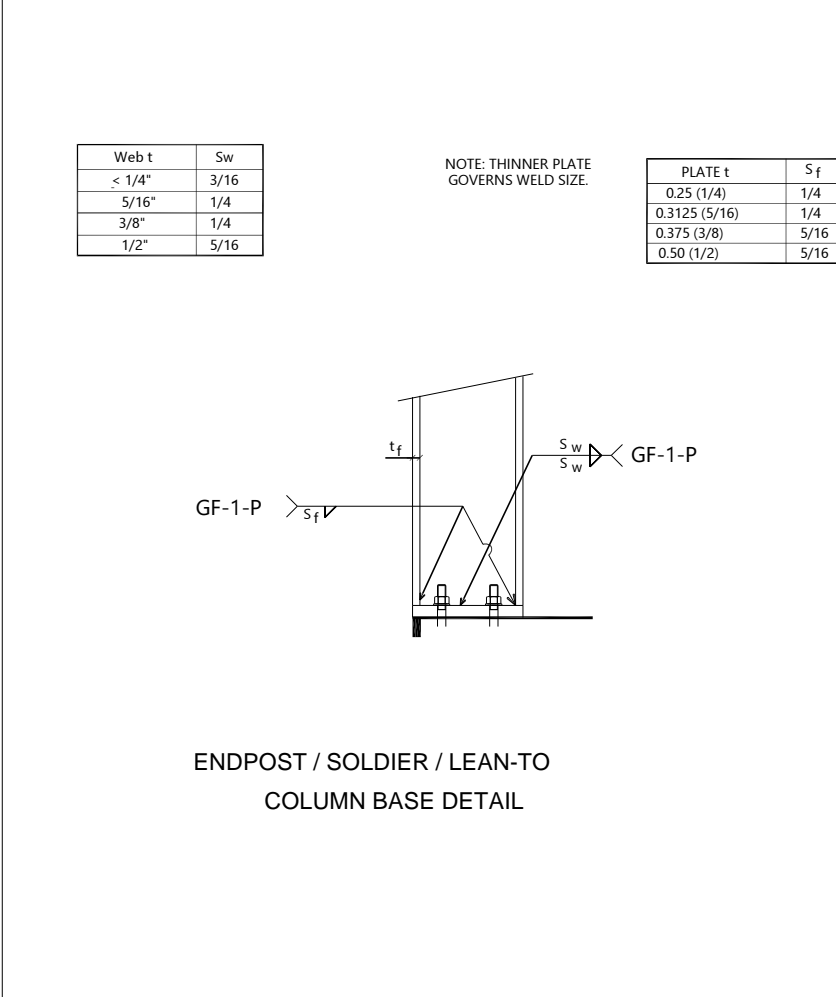
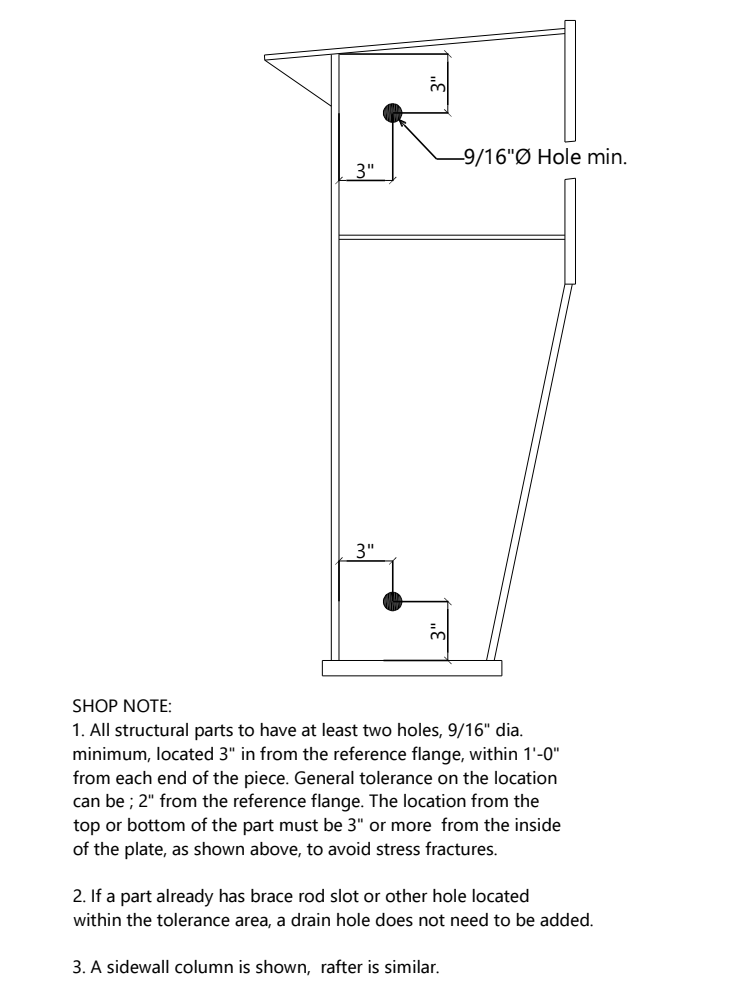
R PANEL PROPERTIES							
GAGE	Fy	Design Thickness	Weight (P.S.F.)	TOP IN COMPRESSION		BOTTOM IN COMPRESSION	
				I_x	S_x	I_x	S_x
26	80 ksi	.0177	0.97	0.0393	0.0398	0.032	0.0463
24	50 ksi	.0225	1.18	0.0567	0.0589	0.044	0.060

WALL PANELS



15	FASTENER PLACEMENT	18	<u>STD BASE ANGLE W/ TRIM</u>	19		20		21	
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[illegible]

													
A		B		C		D		E		F		G	
WELDING ENGINEERING STANDARDS		WELDING ENGINEERING STANDARDS		WELDING ENGINEERING STANDARDS		WELDING ENGINEERING STANDARDS		WELDING ENGINEERING STANDARDS		WELDING ENGINEERING STANDARDS		WELDING ENGINEERING STANDARDS	
													
H		J		K		L		M		N		P	
WELDING ENGINEERING STANDARDS		WELDING ENGINEERING STANDARDS		WELDING ENGINEERING STANDARDS		WELDING ENGINEERING STANDARDS		WELDING ENGINEERING STANDARDS		WELDING ENGINEERING STANDARDS		WELDING ENGINEERING STANDARDS	
													
Q		R		S		T							
WELDING ENGINEERING STANDARDS		WELDING ENGINEERING STANDARDS		WELDING ENGINEERING STANDARDS		WELDING ENGINEERING STANDARDS							

CBC JOB No. C22B0182A		DEALER: R.C. PATTERSON INC.		SHEET 11 OF 11	
GENERAL DETAILS		CUSTOMER: ROB KERTH ICE LAND		ENGR. APPR. VP	
LOCATION: SACRAMENTO, CA 95815		DATE: 9/19/2022		DRAWN JDM	
PLOT DATES:		SCALE		DATE: 9/19/2022	
PLOT DATES:		SCALE		DATE: 9/19/2022	
PLOT DATES:		SCALE		DATE: 9/19/2022	
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<div>CBC JOB No. C22B0182A</div> <div>GENERAL DETAILS</div>	<div>CUSTOMER: ROB KERTH ICE LAND</div> <div>LOCATION: SACRAMENTO, CA 95815</div>	<div>DEALER: R.C. PATTERSON INC.</div> <div>DATE: 9/19/2022</div>	<div>ENGR. APPR. VP</div> <div>DRAWN JDM</div> <div>SCALE</div>	<div>PLAT DATES:</div>	<div>DATE: 9/19/2022</div>	<div>BY</div>	<div>DATE</div>
<div> <div>CBC</div> <div>STEEL BUILDINGS</div> <div>A Nucor Company</div> </div>	<div> <div>IAS</div> <div>Company</div> </div>	<div> <div>MBMR</div> <div>MEMBER</div> </div>	<div> <div>11/15/2022</div> <div>BY</div> </div>	<div> <div>REVISION</div> <div>DATE</div> </div>	<div> <div>REVISION</div> <div>DATE</div> </div>	<div> <div>REVISION</div> <div>DATE</div> </div>	<div> <div>REVISION</div> <div>DATE</div> </div>

ICELAND SKATING RINK
1430 DEL PASO BLVD.
SACRAMENTO, CA 95815
FIRE ALARM SYSTEM

SCOPE OF WORK

COSCO FIRE PROTECTION SHALL PROVIDE CONSULTATION, DESIGN, INSTALLATION, AND EQUIPMENT PER THE CONTRACTUAL AGREEMENTS OF THE PROJECT NAME AND PROJECT NUMBER IDENTIFIED WITHIN THE TITLE BLOCK; CONSISTING, BUT NOT LIMITED TO THE FOLLOWING:

UPGRADE ALL NOTIFICATION DEVICES WITHIN AREA C AND AREA D ONLY TO COMPLY WITH SYNCHRONIZATION REQUIREMENTS. ALL OTHER DEVICES/EQUIPMENT IS EXISTING AND IS TO REMAIN UNCHANGED. UPDATED VOLTAGE DROP CALCULATIONS ARE BEING PROVIDED FOR THE AFFECTED NAC CIRCUITS ONLY. TESTING SHALL BE ACCORDING TO NFPA 72 2022. INSTALLATION SHALL COMPLY WITH APPLICABLE CODES.

ALL WIRING IS EXISTING AND IS TO BE REUSED AS-IS. THERE WILL BE NO MODIFICATION TO THE FUNCTION OR SEQUENCE OF OPERATIONS OF THE EXISTING SYSTEM.

REACCEPTANCE TESTING
PLEASE NOTE THAT ANY CHANGE IN SOFTWARE WILL REQUIRE REACCEPTANCE TESTING PER 2022 NFPA 72, SECTION 14.4.2.

BUILDING AND PROJECT DATA

OCCUPANCY CLASSIFICATION & USE:	A-4
OCCUPANT LOAD:	>500
CONSTRUCTION TYPE:	I-A
BUILDING AREA:	13,500 SQ. FT.
NUMBER OF STORIES:	1
AUTOMATIC SPRINKLERS:	YES
TYPE OF SYSTEM:	FIRE SPRINKLER MONITORING
SYSTEM DESIGNER:	BYRON GONZALES OFFICE: 916-652-1306
MONITORING STATION:	GENERAL MONITORING SERVICES 17951 LYONS CIRCLE HUNTINGTON BEACH, CA 92647 UL # 57894-1 UUTX P: 888-467-1119 METHOD OF COMMUNICATION:

APPLICABLE CODES AND STANDARDS

- 2019 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.
2022 NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE

SHEET INDEX

SHEET #	DESCRIPTION
FA0.1	FIRE ALARM SYSTEM LEGENDS, NOTES & VICINITY MAP
FA1.0	FLOOR PLAN, DETAILS, RISER DIAGRAM & CALCS

CIRCUITS AND PATHWAYS

REFER TO NFPA 72 2022 SECTION 12.3 PATHWAY CLASS DESIGNATIONS AND SECTION 12.4 PATHWAY SURVIVABILITY FOR FURTHER INFORMATION.

NAC CIRCUITS						IDC CIRCUITS							
CLASS	A	B	C	D	E	X	CLASS	A	B	C	D	E	X
SURVIVABILITY	0	1	2	3	4		SURVIVABILITY	0	1	2	3	4	
		●							●				
SLC CIRCUITS						CONTROL CIRCUITS							
CLASS	A	B	C	D	E	X	CLASS	A	B	C	D	E	X
SURVIVABILITY	0	1	2	3	4		SURVIVABILITY	0	1	2	3	4	
		●							●				

GENERAL NOTES

- INSTALLATION OF THE SYSTEM SHALL NOT BE STARTED UNTIL AHJ APPROVED PLANS ARE ON PROJECT SITE.
- ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH N.E.C. ARTICLE 760, POWER LIMITED FIRE PROTECTIVE SIGNALING CIRCUITS.
- ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER.
- UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE AHJ.
- A STAMPED SET OF APPROVED FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES, SHALL BE APPROVED BY THE OWNER AND AHJ.
- ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL.
- FIRE ALARM DEVICES SHALL BE INSTALLED PER THE STANDARDS OF NFPA 72 AND CEC.
- WIRING SHALL NOT BE LOOPED THROUGH DEVICES; WIRE MUST BE CUT AT EACH DEVICE. CIRCUITS SHALL NEVER BE SPLICED. ALL TERMINATIONS SHALL BE AT PANELS, AT TERMINAL CANS ON TERMINAL STRIPS OR AT DEVICES.
- ALL CONDUCTORS SHALL BE COPPER AND PROPERLY LABELED AT PANELS AND TERMINAL CANS.
- SYSTEM IS POWER LIMITED. ALL CIRCUITS SHALL BE PROTECTED BELOW 7' WITHIN THE STRUCTURE OR IN CONDUIT AS INDICATED ON FLOOR PLAN AND CIRCUIT SCHEDULE.
- UNDERGROUND CONDUITS SHALL HAVE WATER BLOCKING INSULATION.
- EXTERIOR CONDUITS SHALL HAVE WATERTIGHT FITTINGS AND JUNCTION BOXES.
- ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED TO MANUFACTURERS SPECIFICATIONS.
- AUDIBILITY OF ALARM FOR PUBLIC MODE SHALL BE AT LEAST 15 dBA (OR 10dBA PRIVATE MODE) ABOVE AMBIENT SOUND THROUGHOUT AREA OF NOTIFICATION AND NO GREATER THAN 110dBA AT THE MINIMUM HEARING DISTANCE. SLEEPING AREAS SHALL BE AT LEAST 15dBA ABOVE AMBIENT SOUND LEVEL OR A SOUND LEVEL OF AT LEAST 75dBA.
- AREAS HAVING MORE THAN 2 STROBES IN THE SAME FIELD OF VIEW SHALL BE SYNCHRONIZED TOGETHER.
- SMOKE DETECTORS AND HEAT DETECTOR LOCATIONS ARE BASED ON SMOOTH CEILING WITH MAXIMUM HEIGHT OF 10 FEET UNLESS OTHERWISE NOTED.
- CEILING MOUNTED STROBES ARE BASED ON MAXIMUM 10 FOOT CEILING HEIGHT AND ARE INSTALLED ACCORDING TO NFPA 72 REQUIREMENTS UNLESS OTHERWISE NOTED.
- WALL-MOUNTED STROBES SHALL HAVE THEIR LENS BOTTOM NOT LESS THAN 80 INCHES AND THEIR LENS TOP NO GREATER THAN 66 INCHES ABOVE FINISHED FLOOR.
- THE OPERABLE PART OF A MANUAL FIRE ALARM BOX SHALL BE NOT LESS THAN 42" AND NOT MORE THAN 48" ABOVE FINISHED FLOOR.
- ELECTRICAL POWER SERVICE SHALL BE ON A DEDICATED CIRCUIT(S). THE CIRCUIT(S) AND CONNECTIONS SHALL BE MECHANICALLY PROTECTED (CIRCUIT BREAKERS SHALL BE LOCKED IN THE ON POSITION WITH AN APPROVED MECHANICAL CLIP.) CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT". THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.
- DUCT DETECTORS SHALL BE FURNISHED AND/OR INSTALLED AS INDICATED ON THE FIRE DEVICE SYMBOL LEGEND AND AS INDICATED ON THE FLOOR PLAN. HVAC/RTU/FSD AND SMOKE CONTROL SHALL BE AS INDICATED IN THE DESIGN MATRIX AND AS NOTED ON THE DESIGN DOCUMENTS. DUCT DETECTORS SHALL BE MONITORED BY COSCO FIRE PROTECTION. DUCT DETECTORS CAN BE ADDRESSABLE AND COMPATIBLE WITH THE FIRE ALARM SYSTEM IF PURCHASED DIRECTLY FROM COSCO FIRE PROTECTION.
- FIRE SMOKE DAMPER POWER SHALL BE 120VAC AND PROVIDED BY THE ELECTRICAL CONTRACTOR.
- FIRE DOOR HOLDERS SHALL BE 120VAC PROVIDED BY ELECTRICAL. INSTALLED BY THE DOOR HARDWARE CONTRACTOR AND CONTROLLED BY FIRE ALARM SYSTEM.
- FIRE ALARM CONDUCTORS USED IN WET OR UNDERGROUND LOCATIONS SHALL BE OF A WATER-BLOCKING TYPE.
- FIRE ALARM SYSTEM "RECORD OF COMPLETION" DOCUMENT SHALL BE PROVIDED TO THE CLIENT ALONG WITH THE OTHER REQUIRED CLOSE-OUT DOCUMENTATION AT THE TIME OF SYSTEM ACCEPTANCE AND APPROVAL PER NFPA 72.
- WHERE A SMOKE DAMPER IS INSTALLED WITHIN A DUCT, A SMOKE DETECTOR SHALL BE INSTALLED IN THE DUCT WITHIN 5 FEET OF THE DAMPER WITH NO AIR OUTLETS OR INLETS BETWEEN THE DETECTOR AND THE DAMPER. THE DETECTOR SHALL BE LISTED FOR THE AIR VELOCITY, TEMPERATURE AND HUMIDITY ANTICIPATED AT THE POINT WHERE IT IS INSTALLED.
- WHERE A SMOKE DAMPER IS INSTALLED ABOVE SMOKE BARRIER DOORS IN A SMOKE BARRIER, A SPOT-TYPE DETECTOR LISTED FOR FOR RELEASING SERVICE SHALL BE INSTALLED ON EITHER SIDE OF THE SMOKE BARRIER DOOR OPENING.
- WHERE A SMOKE DAMPER IS INSTALLED WITHIN AN AIR TRANSFER OPENING IN A WALL, A SPOT-TYPE DETECTOR LISTED FOR RELEASING SERVICE SHALL BE INSTALLED WITHIN 5 FEET HORIZONTALLY OF THE DAMPER.
- WHERE A SMOKE DAMPER IS INSTALLED IN A CORRIDOR WALL OR CEILING, THE DAMPER SHALL BE PERMITTED TO BE CONTROLLED BY A SMOKE DETECTION SYSTEM INSTALLED IN THE CORRIDOR AND/OR AREA BEING SERVED.
- WHERE A TOTAL-COVERAGE SMOKE DETECTOR SYSTEM IS PROVIDED WITHIN AREAS SERVED BY A HEATING, VENTILATION AND AIR-CONDITIONING (HVAC) SYSTEM, SMOKE DAMPERS SHALL BE PERMITTED TO BE CONTROLLED BY THE SMOKE DETECTION SYSTEM.

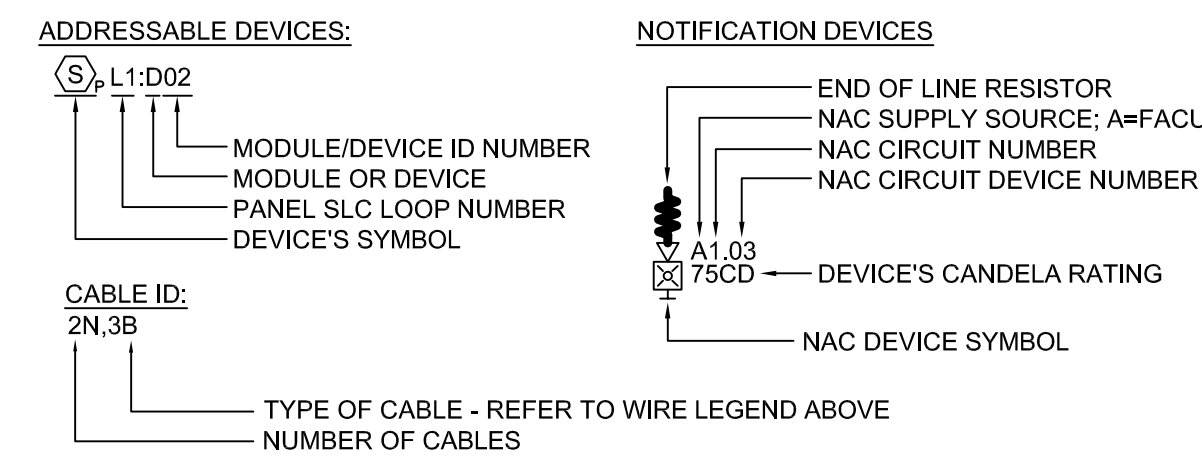
1
FA1.0
DETAIL NUMBER
SHEET NUMBER

1
DRAWING / DELTA
REVISION NUMBER

CIRCUIT & WIRE LEGEND

ID	TYPE OF CKT	CIRCUIT DESCRIPTION	MINIMUM SIZE AND TYPE OF WIRE	AMOUNT
L	SLC	SIGNALING LINE CIRCUIT INDOOR	16/2 SOLID FPL	
N	NAC	NOTIFICATION APPLIANCE CIRCUIT INDOOR	16/2 SOLID FPL	
S	AUD	SPEAKER AUDIO CIRCUIT INDOOR	16/2 STRANDED SHIELDED FPLR	
D	DAL	DIGITAL AUDIO LOOP, INDOOR	16/2 TWISTED PAIR UNSHIELDED FPLP	
A	ANN	REMOTE ANNUNCIATOR INDOOR (CLASS B)	18/4 SOLID UNSHIELDED FPLR	
P	PWR	AUX POWER LOOP, INDOOR	16/2 SOLID FPLR	
C	CON	CONVENTIONAL DEVICE CIRCUIT INDOOR	16/2 SOLID FPLR	
U	UDG	CONVENTIONAL DEVICE CIRCUIT OUTDOOR	16/2 SOLID WATER BLOCKING TYPE	
R	RTS	REMOTE TEST STATION (FOR DUCT SMOKE DETECTOR)	18/4 SOLID FPLR	
T	TRIP	NOTIFICATION TRIP CIRCUIT	16/2 SOLID FPLR	

DEVICE ID LEGEND, WIRE TAG LEGEND



SEQUENCE OF OPERATIONS MATRIX

SYSTEM INPUTS		SYSTEM OUTPUTS											
		A	B	C	D	E	F	G	H	I	J		
1	AREA / EQUIPMENT SMOKE DETECTOR	✓	✓										
2	MANUAL PULL STATION	✓	✓										
3	WATERFLOW PRESSURE SWITCH			✓	✓								
4	AIR SUPERVISORY PRESSURE SWITCH			✓	✓								
5	VALVE TAMPER SWITCH							✓	✓				
6	FIRE ALARM SYSTEM / POWER SUPPLY / AMPLIFIER AC POWER FAILURE					✓	✓			✓			
7	FIRE ALARM SYSTEM / POWER SUPPLY / AMPLIFIER LOW BATTERY					✓	✓			✓			
8	OPEN CIRCUIT					✓	✓			✓			
9	GROUND FAULT					✓	✓			✓			

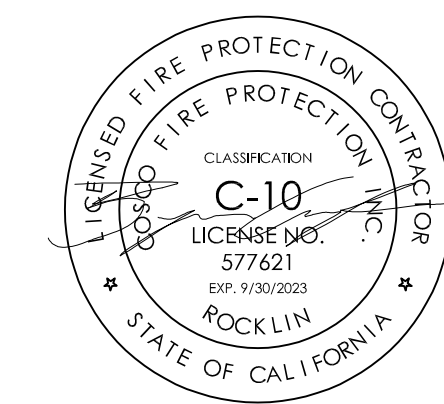
SYMBOL LEGEND & MATERIAL LIST

SYMBOL	QTY	MANUFACTURER	MODEL #	DESCRIPTION	CSFM #	ROUGH IN
[FACU]	1	FIREWARDEN	NFW-50X	FIRE ALARM CONTROL UNIT	7165-0028:0505	BACK BOX SUPPLIED WITH UNIT
	2	---	12V.7AH	SEALED LEAD-ACID BATTERY	---	INSIDE FACP ENCLOSURE
(S) ₁	1	NOTIFIER	FSP-951	ADDRESSABLE SMOKE DETECTOR	7272-0028:0503	B300-6
	1	SYSTEM SENSOR	B300-6	6" FLANGED DETECTOR BASE, IVORY	7300-1653:0109	4-SQ WITH 3" MUD RING
[F]	1	NOTIFIER	NBG-12LX	ADDRESSABLE PULL STATION DUAL ACTION	7150-0028:0199	SINGLE GANG
(AD) ₂	2	NOTIFIER	FDM-1	ADDRESSABLE DUAL INPUT MONITOR MODULE	7300-0028:0219	SINGLE GANG
[MF]	1	F.B.O.	F.B.O.	WATERFLOW SWITCH	---	---
[PS]	1	F.B.O.	F.B.O.	PRESSURE SUPERVISORY SWITCH	---	---
[VS]	1	F.B.O.	F.B.O.	VALVE TAMPER SWITCH	---	---
XX	5	SYSTEM SENSOR	P2RL	HORN STROBE, WALL MOUNT, RED	7135-1653:0503	4-SQ X 2.125" DEEP
XX	4	SYSTEM SENSOR	SRL	STROBE, WALL MOUNT, RED	7125-1653:0504	4-SQ X 2.125" DEEP
XX	1	SYSTEM SENSOR	P2RK	HORN STROBE, WALL, RED, WEATHERPROOF	7125-1653:0188	4-SQ X 2.125" DEEP
[DOC]	1	SPACE AGE ELECTRONICS	ACE-11	FIRE ALARM DOCUMENT BOX	7300-0553:0110	MOUNT NEXT TO FACU
[SS] ₁₂₀	1	DITEK	DTK-120HW	SURGE PROTECTOR	4945-2105:0102	4-SQ X 2.125" DEEP
-W-	8	---	---	END OF LINE RESISTOR, PROVIDED W/ DEVICE	---	---

VICINITY MAP



Authority Having Jurisdiction Approval:



COSCO
Fire Protection
FIRE PROTECTION AND LIFE SAFETY SPECIALISTS
CALIFORNIA C-16 LIC. # 577621
ROCKLIN OFFICE
3850 Alhambra Road
Rocklin, CA 95765
Phone (916) 852-1306
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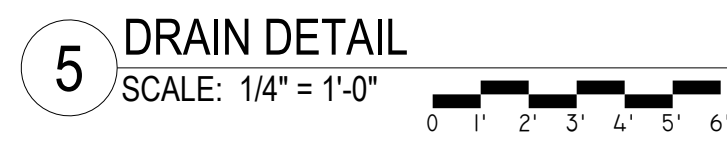
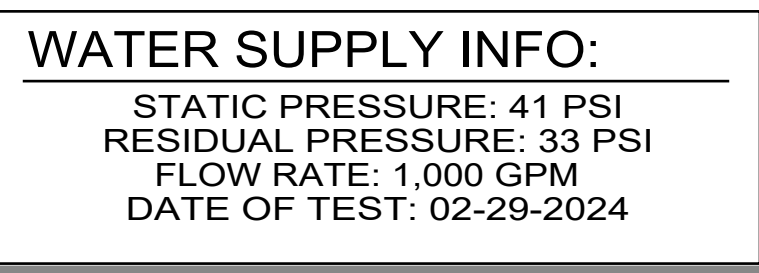
PROJECT: ICELAND SKATING RINK
1430 DEL PASO BLVD.
SACRAMENTO, CA 95815
CONTRACTOR: ROEBBELEN CONTRACTING, INC.
1241 HAWKS FLIGHT COURT
EL DORADO HILLS, CA 95762
SHEET TITLE: FIRE ALARM SYSTEM LEGENDS, NOTES & VICINITY MAP

THIS INFORMATION EMBOSES A PROPRIETARY DESIGN ORIGINATED BY COSCO FIRE PROTECTION AND ALL DESIGN, MANUFACTURING, PRODUCTION (INCLUDING WIRE) THE REPRODUCTION OF THIS INFORMATION WITHOUT WRITTEN PERMISSION IS PROHIBITED. THE DRAWING, USE AND SALE RIGHTS REGARDING THE SAME ARE HEREBY RESERVED. IT IS SUBMITTED UNDER A CONFIDENTIAL AGREEMENT FOR A SPECIFIC PROJECT, AND THE INFORMATION IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF COSCO FIRE PROTECTION. ANY SPECIAL REQUIREMENTS MUST BE SPECIFICALLY NOTED ON THE DESIGN.


REVISION	DATE	BY
INITIAL RELEASE	05/30/24	BG

FIRE ALARM SYSTEM

DRAWN BY: B.GONZALES
CHECK BY: B.M.
APPROVED BY: E.D.
DATE: 05 / 30 / 24
SCALE: AS NOTED
JOB NO: 23RD2373
SHEET: FA0.1



Hydraulic Information	
Remote Area 1	
OCCUPANCY CLASSIFICATION	Light Hazard
DENSITY (gpm/ft ²)	0.10 for 1500 ft ² (Actual 1535 ft ²)
TOTAL HOSE STREAMS	100.00
DRY CAPACITY	267.70 gal
TOTAL HEADS FLOWING	10
K-FACTOR	5.6
TOTAL WATER REQUIRED	278.03
TOTAL PRESSURE REQUIRED	35.538
SAFETY MARGIN (psi)	+4.712 (11.7%)



COSCO

Fire Protection

Fire protection and fire safety equipment
 1800 Amerland Road, Irvine, California 92618
 Phone: (949) 450-2200 Fax: (949) 450-2201

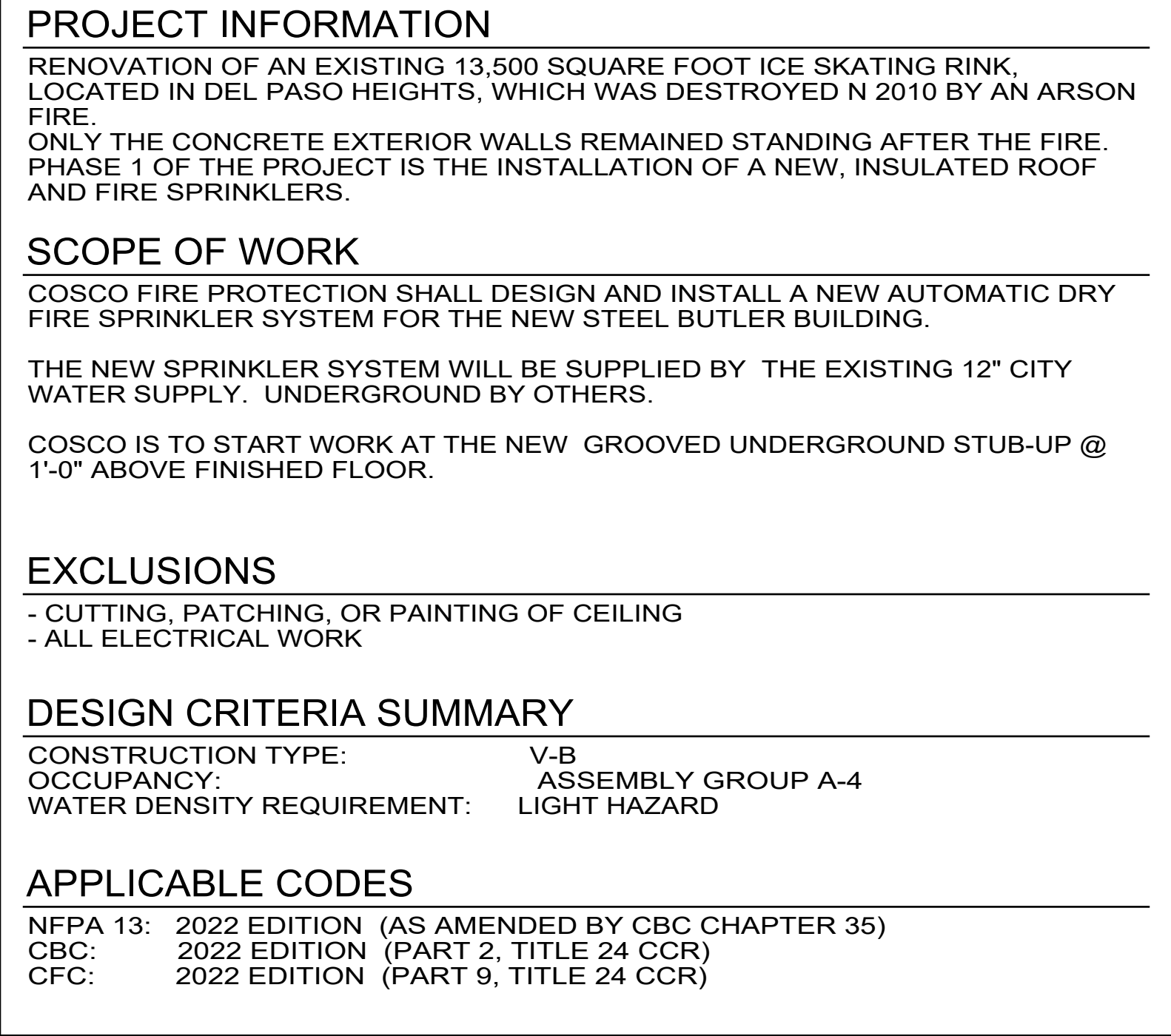
HYDRAULIC SYSTEM

THIS BUILDING IS PROTECTED
 BY A HYDRAULICALLY DESIGNED
 AUTOMATIC FIRE SPRINKLER SYSTEM

LOCATION	ICELAND SKATING RINK
NO. OF SPRINKLERS	10
BASIS OF DESIGN	0.10
1. DENSITY	0.10 <small>1000/50.1</small>
2. DESIGNED AREA BY DISCHARGE	1535 <small>50.1</small>
SYSTEM DESIGN	
1. WATERFLOW RATE	278.0 <small>150</small>
2. MINIMUM PRESSURE AT THE END OF THE RISER	35.538 <small>150</small>

INSTALLED BY

COSCO FIRE PROTECTION



GENERAL NOTES

DESIGN AND INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF NFPA 13, 2022 EDITION.

ALL MATERIALS AND EQUIPMENT TO BE USED SHALL BE APPROVED FOR USE IN FIRE SPRINKLER SYSTEMS.

ALL MAINS ARE TO BE SCHEDULE 10 BLACK-STEEL PIPE WITH WELDED OUTLETS OR GROOVED FITTINGS AND COUPLINGS.

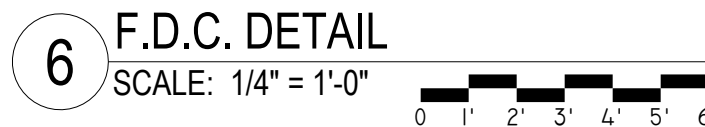
BRANCHLINES ARE TO BE SCHEDULE 10 BLACK-STEEL PIPE WITH WELDED OUTLETS OR GROOVED FITTINGS AND COUPLINGS.

ALL HANGERS SHALL BE INSTALLED PER NFPA 13 AS REQUIRED.

ALL ROOMS ARE LIGHT HAZARD UNLESS OTHERWISE NOTED.


ANY DEVIATION FROM THE DRAWINGS MUST BE APPROVED.

FIRE SPRINKLER SHEET INDEX	
FP-1.0	FIRE SPRINKLER PLAN
FP-2.0	HANGERS AND BRACING DETAILS / CALCULATIONS

[illegible]

SPRINKLER HEAD LEGEND :		QUAN	TEMP	PLATE	HEAD	K-FACT	WPT	OFFICE	SEN	SYMBOL
OR UPRIGHT SPRINKLER HEAD		96	201"	NA	BR	5.6	1/2"	NA	NA	Q
CITY OF SACRAMENTO										
APPROVALS BY:										
TOTAL SPRINKLERS THIS SHEET = 96										

COSCO
Fire Protection
FIRE PROTECTION AND LIFE SAFETY SPECIALISTS
SACRAMENTO DISTRICT
 3550 Rochester Road
 Acorn, CA 95620
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 Cell (916) 426-1305 (fax) (916) 426-1307
 CALIFORNIA C-16C-10
 LICENSE # 979121
 SAN DIEGO • LOS ANGELES • FRESNO • SACRAMENTO • PORTLAND • RATTLE • DENVER
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PROJECT: ICELAND ICE SKATING RINK 1430 DEL PASO BLVD. SACRAMENTO, CA 95815		CONTRACT WITH: ROEBBELEN CONTRACTING, INC. 1241 HAWKS FLIGHT COURT EL DORADO HILLS, CA 95762	
DATE: 05/29/24 SCALE: AS NOTED DRAWN BY: B. GONZALES		DRAWING TITLE: COVER PAGE	
JOB NO: 23RD2372			
SHEET NO: FP-1.0			



1. BRANCH LINE RESTRAINT SHALL BE PROVIDED BY THE USE OF ONE OF THE FOLLOWING:
 - a. LISTED SWAY BRACE ASSEMBLY (SEE SEISMIC BRACING NOTES)
 - b. WRAPAROUND U-HOOK SATISFYING THE REQUIREMENTS OF SECTION 18.5.5.1
 - c. No. 10 OR 12S WIRE INSTALLED AT LEAST 45° FROM VERTICAL PLANE AND ANCHORED ON BOTH SIDES OF THE PIPE. WIRE RESTRAINT SHALL BE LOCATED WITHIN 24" OF A HANGER PER SECTION 18.6.2
 - d. A HANGER NOT LESS THAN 45° FROM VERTICAL INSTALLED WITHIN 6" OF THE VERTICAL HANGER ARRANGED FOR RESTRAINT AGAINST UPWARD MOVEMENT, PROVIDED IT IS UTILIZED SUCH THAT IT DOES NOT EXCEED 400, WHERE THE ROP SHALL EXTEND TO THE PIPE OR HAVE A SURGE CLIP INSTALLED

- 14

44

1. EARTHQUAKE BRACING SHALL BE PROVIDED PER NFPA 13, 2022 EDITION, SECTION 18.5.
2. LOADS ARE DETERMINED BY ANALYSIS PER SECTION 18.5.1.3
3. LONGITUDINAL BRACES SHALL BE ALLOWED TO ACT AS LATERAL BRACES WHERE THEY ARE INSTALLED WITHIN 24" OF PIPING WHICH IS BRACED Laterally AND VICE VERSA PER SECTION 18.5.5.8 & SECTION 18.5.5.3.
4. EACH RUN OF PIPE REQUIRES A MINIMUM OF TWO LATERAL BRACES, ONE AT EACH END OF THE RUN.
5. THE MAXIMUM OFFSET ALLOWED IN A RUN OF PIPE IS 24".
6. A VERTICAL SEISMIC BRACE (VSB) SHALL BE PLACED WITHIN 6" OF ALL LATERAL AND LONGITUDINAL BRACES.

WF

A
15" STEEL

1. ALL HANGER ASSEMBLIES ARE PER NFPA 13 & MANUFACTURER DETAILS.
2. PER CBC AND NFPA 13 THE BUILDING STRUCTURE MUST BE CAPABLE OF SUPPORTING THE ADD LOAD OF THE WATER FILLED PIPE PLUS A MINIMUM OF 250 lbs.
3. HANGER SPACING SHALL BE PER NFPA 13 TABLE 17.4.2.1(a).

- t,
anch line

4"
5'-0"

