

CITY OF CRAIG WASTE WATER TREATMENT PLANT ROOF REPLACEMENT CRAIG, ALASKA FEBRUARY, 2024

CODE SUMMARY

CODE SUMMARY

<u>CODE EDITION:</u>		2021 INTERNATIONAL BUILDING CODE AS ADOPTED BY THE STATE OF ALASKA		
<u>EXISTING OCCUPANCY:</u>	<u>GROUP</u>	<u>AREA</u>	<u># OCC</u>	<u>EXITS</u>
FIRST FLOOR				
WASTE WATER TREATMENT	F1	4030 SF		(1)
SUBTOTAL		4030 SF	8	1
SECOND FLOOR				
WASTE WATER TREATMENT	F1	4030 SF		8 (1)
SUBTOTAL		4030 SF	8	1
TOTAL		8060 SF	16	2
(1) ASSUMED AT 500 SF/OCCUPANT				

TYPE OF CONSTRUCTION: IIB
NEW ROOF: STEEL PURLINS AND INSULATED METAL PANELS

BUILDING HEIGHT:

ACTUAL OF BUILDING: 30 FT
ALLOWABLE HEIGHT: 55 FT

SITE DESCRIPTION:

	<u>FIRE SEPARATION</u>	<u>FIRE RATING</u>
NORTH SIDE - OPEN AREA	100+ FT	0 HOUR
EAST SIDE - OPEN AREA	100+ FT	0 HOUR
SOUTH SIDE - OPEN AREA	100+ FT	0 HOUR
WEST SIDE - OPEN AREA	100+ FT	0 HOUR

PERIMETER FRONTING ON PUBLIC WAY OR OPEN SPACE: 254 FEET

ALLOWABLE AREA INCREASE DUE TO FRONTAGE: 50%

ALLOWABLE AREA

	<u>AREA</u>	<u>ALLOWED</u>	<u>RATIO</u>	<u>STATUS</u>
FIRST FLOOR				
WASTE WATER TREATMENT	4030 SF	23,250 SF	0.17	OK
SUBTOTAL		4030 SF	23,250 SF	0.17 OK
SECOND FLOOR				
WASTE WATER TREATMENT	4030 SF	23,250 SF	0.17	OK
SUBTOTAL		4030 SF	23,250 SF	0.17 OK
TOTAL		8060 SF	46,500	0.17 OK

OCCUPANCY SEPARATIONS: NONE

SHEET INDEX

A001	COVER SHEET
AD202	DEMOLITION ROOF PLAN
AD301	DEMOLITION BUILDING SECTION
A201	SECOND FLOOR PLAN
A202	ROOF PLAN
A301	BUILDING SECTION
A801	EXTERIOR DETAILS
S100	GENERAL NOTES
S202	ROOF FRAMING PLAN
S301	STRUCTURAL DETAILS
E201	SECOND FLOOR PARTIAL LIGHTING PLANS

CONSULTANTS

ARCHITECT JENSEN YORBA WALL, INC.

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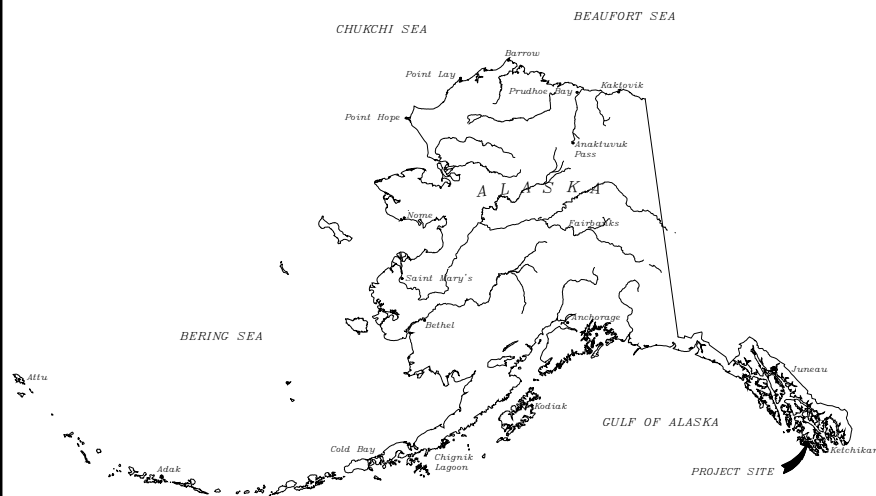
STRUCTURAL ENGINEER PND ENGINEERING, INC. CONSULTING ENGINEERS

9360 GLACIER HIGHWAY, SUITE 100
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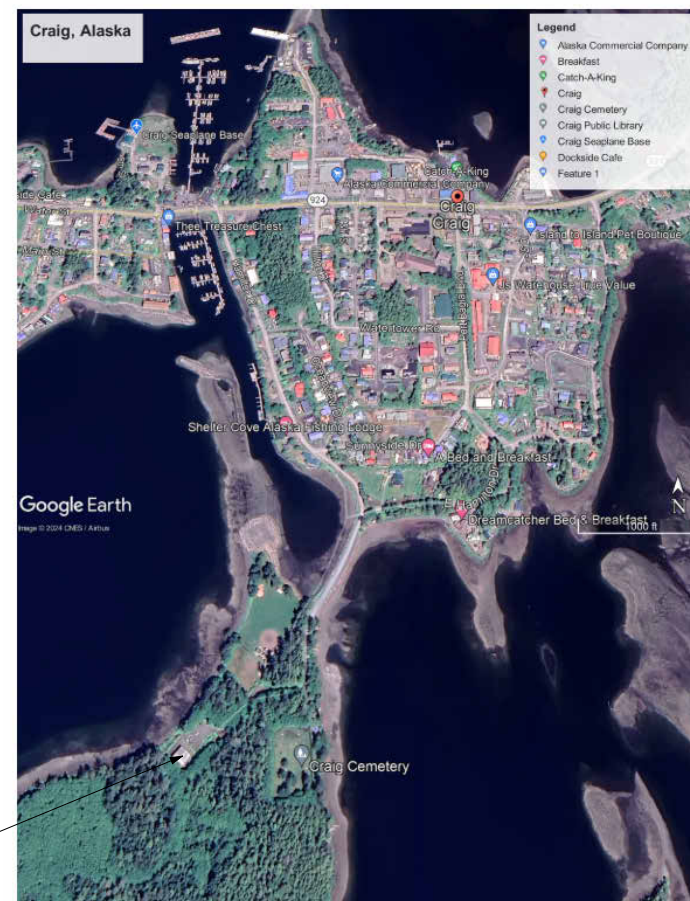
ELECTRICAL ENGINEER BEGENYI ENGINEERING, LLC

217 2ND STREET, SUITED 208
JUNEAU, ALASKA 99801
(907) 586-5900
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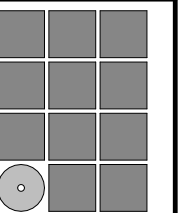
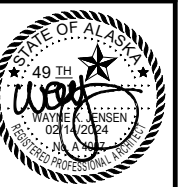
AREA MAP



VICINITY MAP



WASTE WATER
TREATMENT PLANT



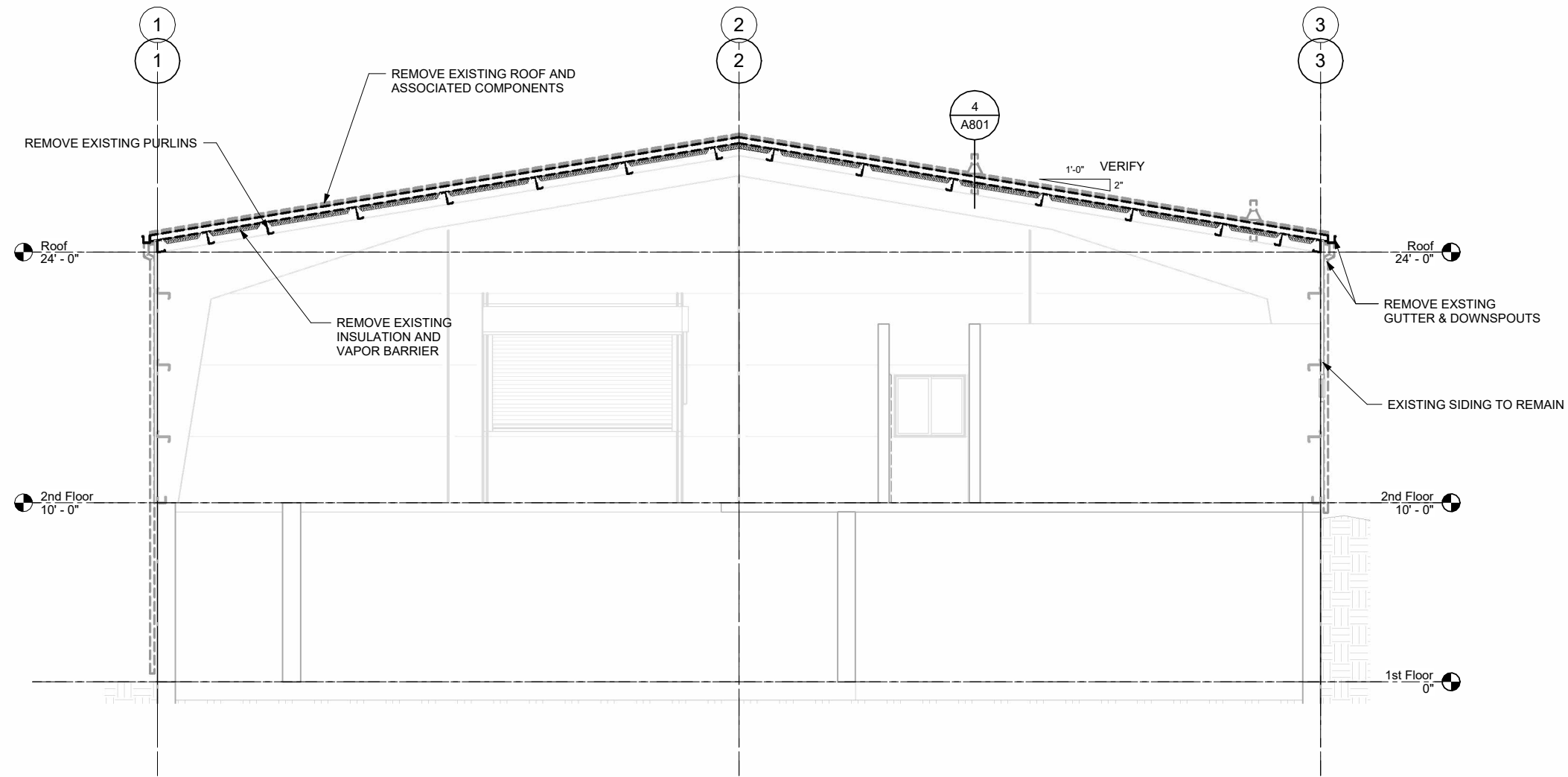
**Jensen
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FILE: 22011

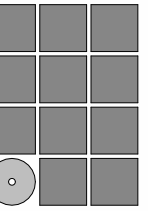
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1 DEMOLITION BUILDING SECTION

SCALE: 0 2' 4' 8'



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ROOF REPLACEMENT
CRAIG, ALASKA

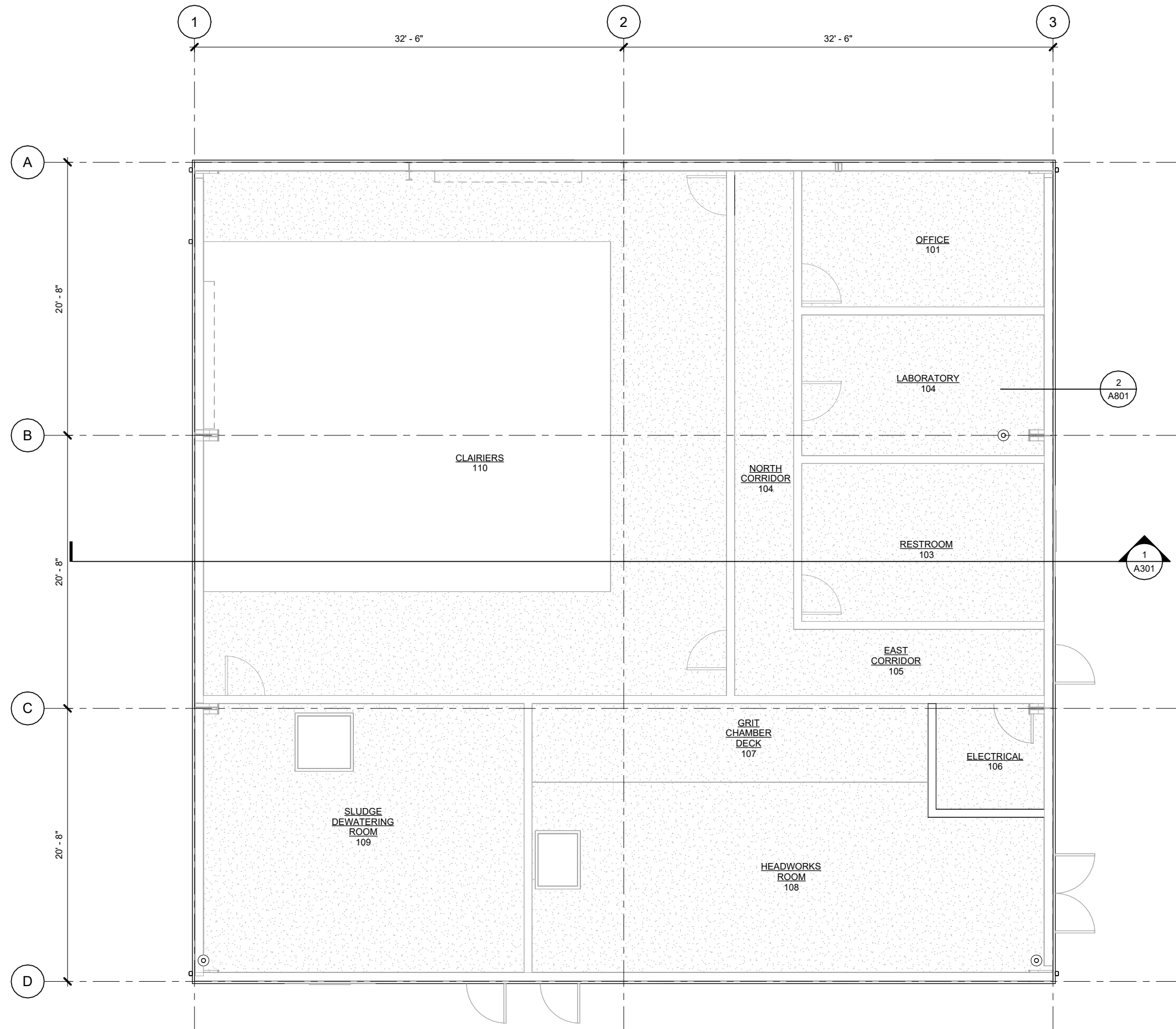
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SHEET TITLE
**DEMOLITION
BUILDING SECTION**

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FILE: 22011

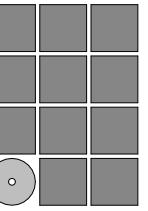
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1 SECOND FLOOR PLAN

SCALE: 0 2' 4' 8'



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CRAIG, ALASKA**

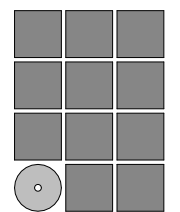
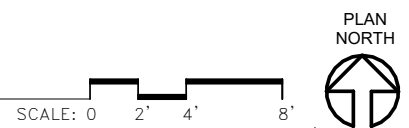
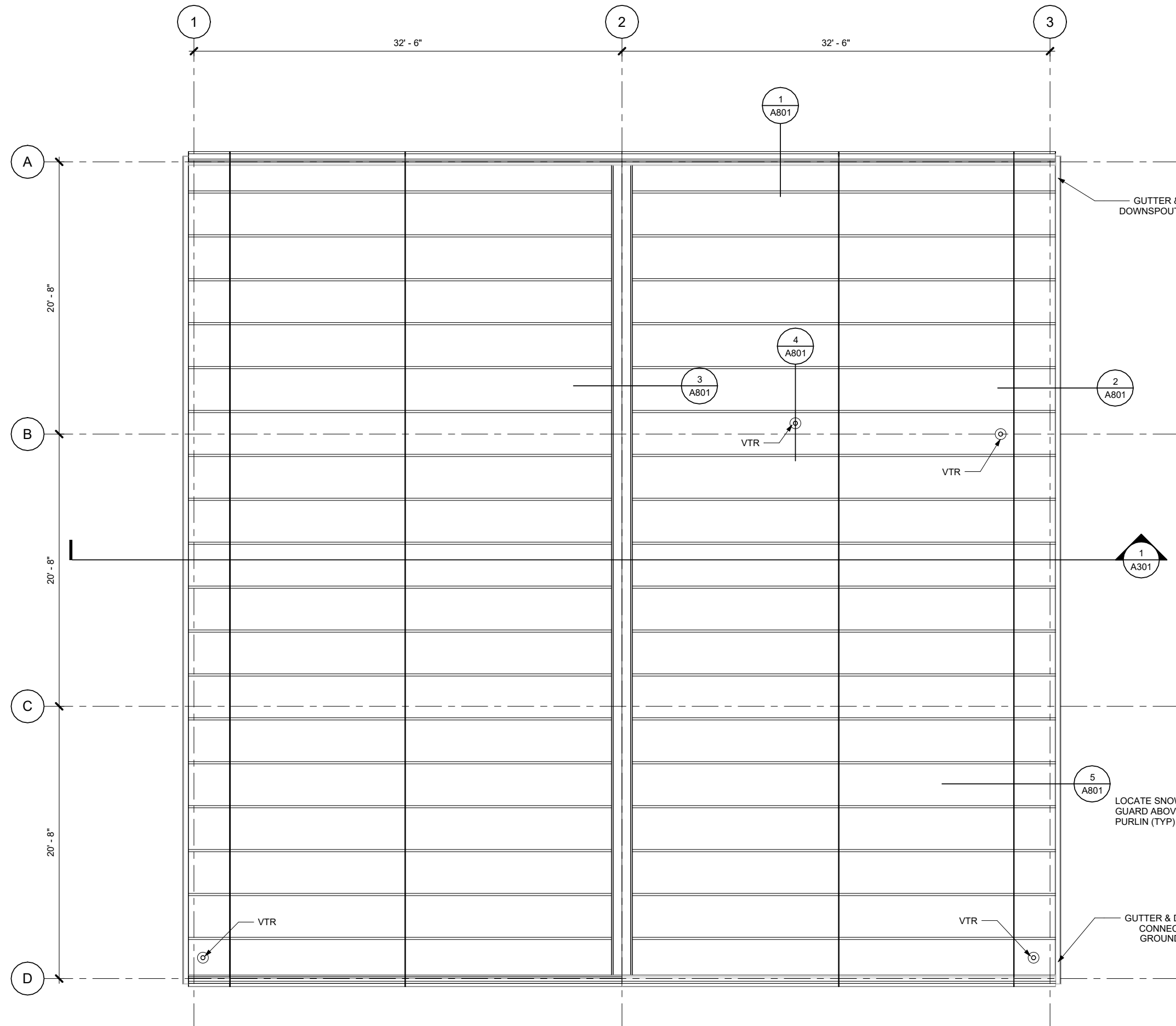
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**SECOND FLOOR
PLAN**

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FILE: 22011

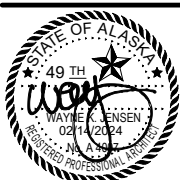
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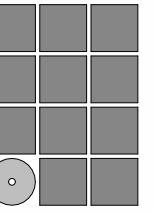
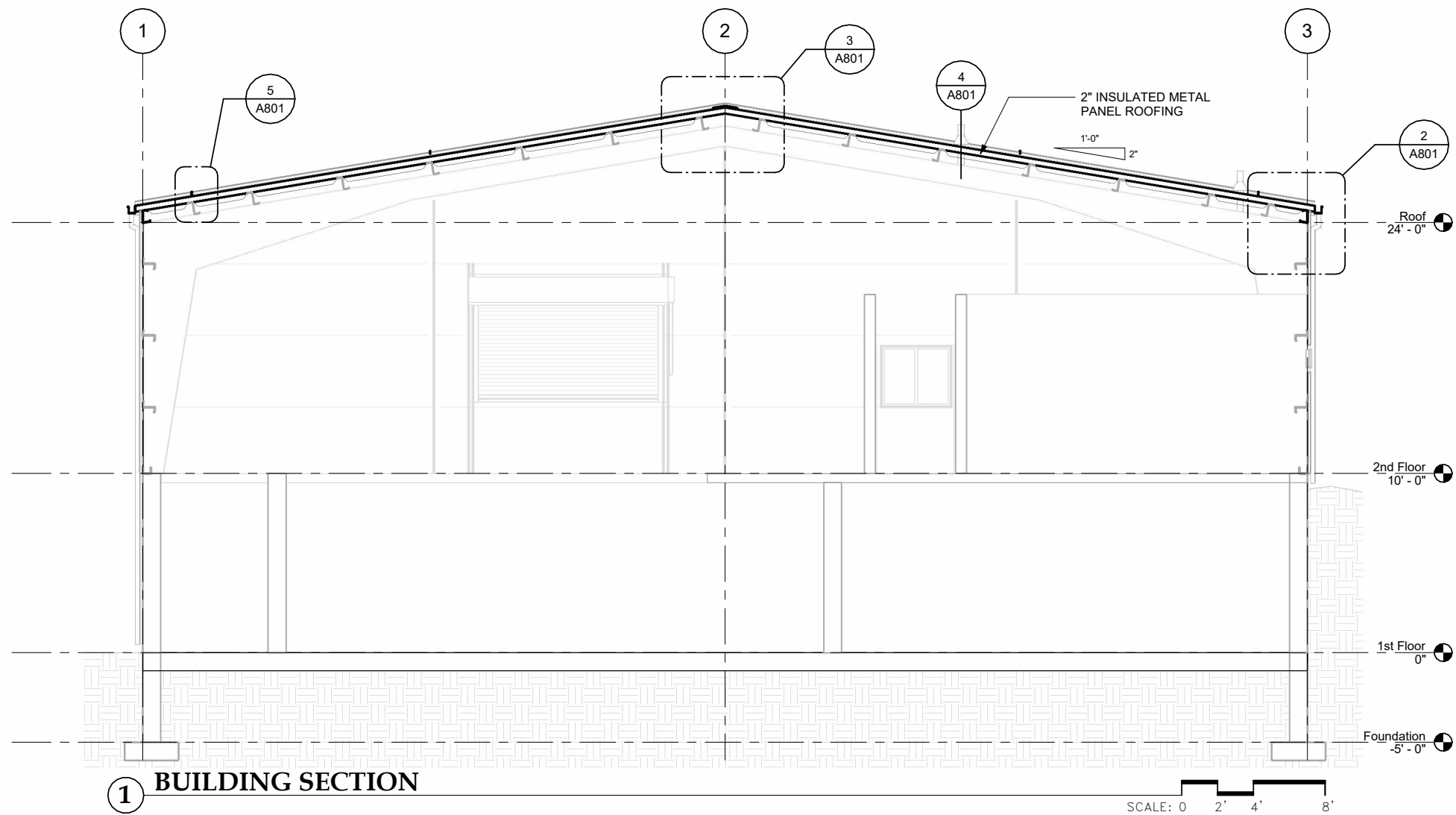
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SHEET TITLE
ROOF PLAN

DATE: FEBRUARY, 2024
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A202

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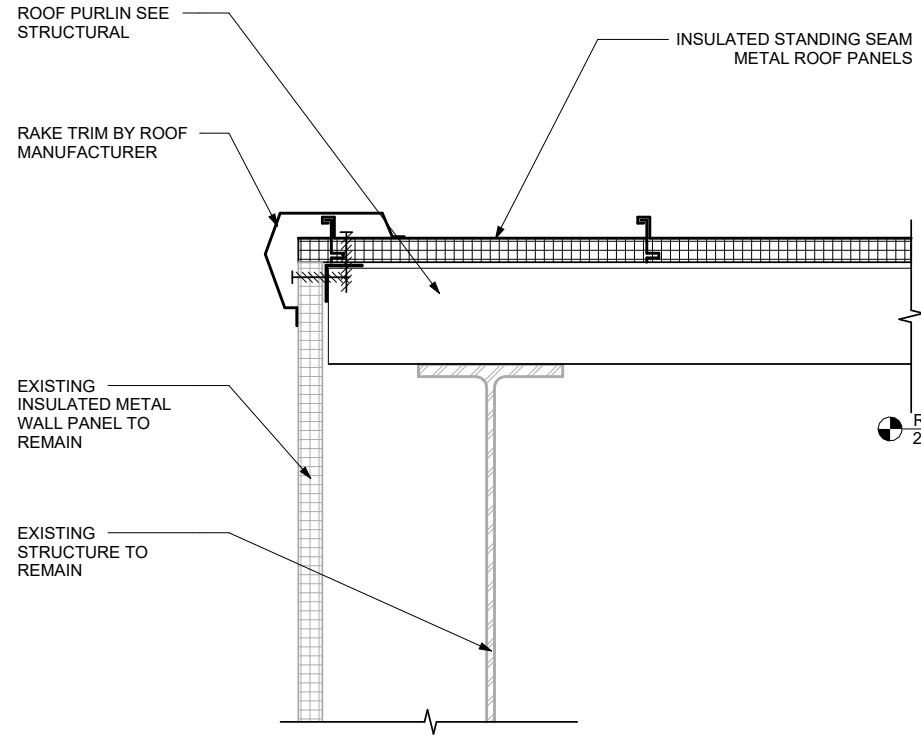
CITY OF CRAIG
WASTE WATER TREATMENT PLANT
ROOF REPLACEMENT
CRAIG, ALASKA

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SHEET TITLE
BUILDING SECTION

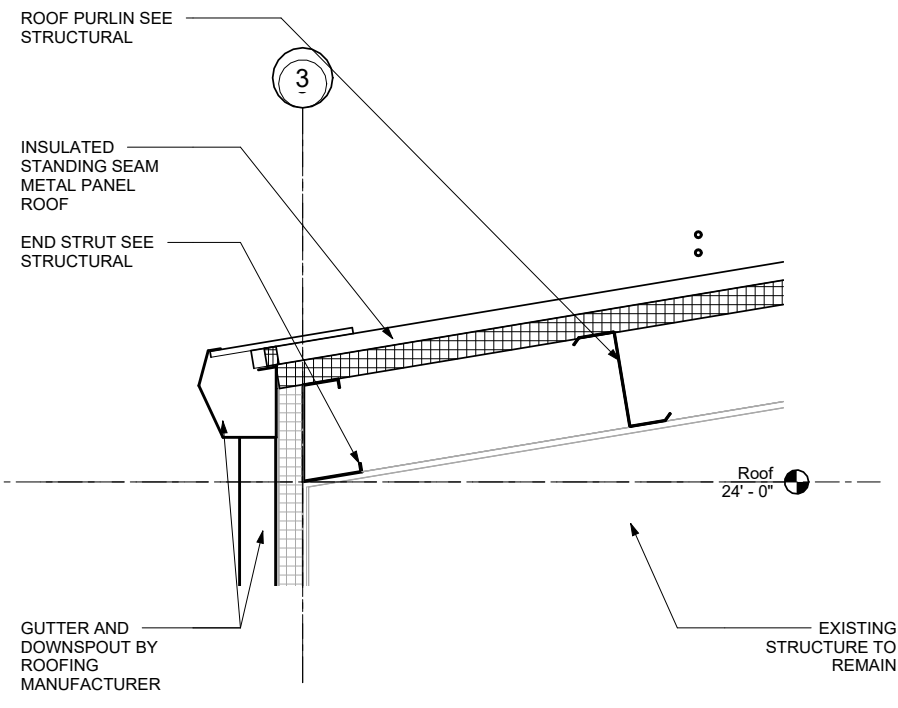
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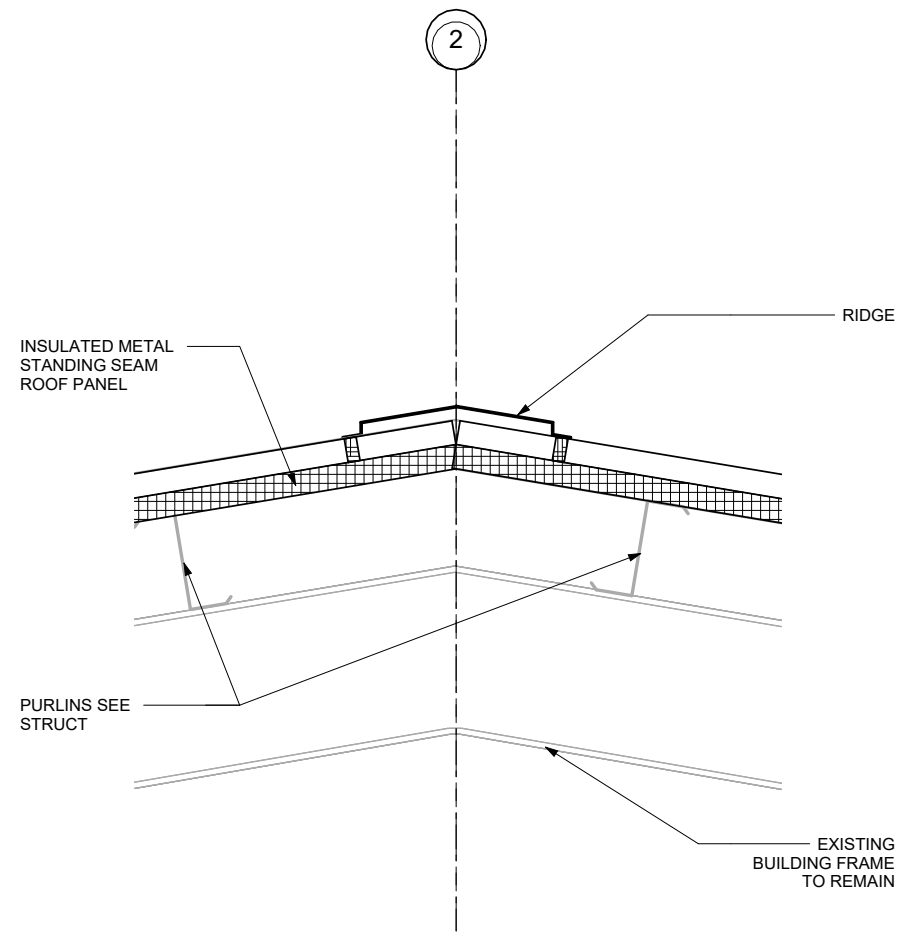
1 RAKE DETIAL

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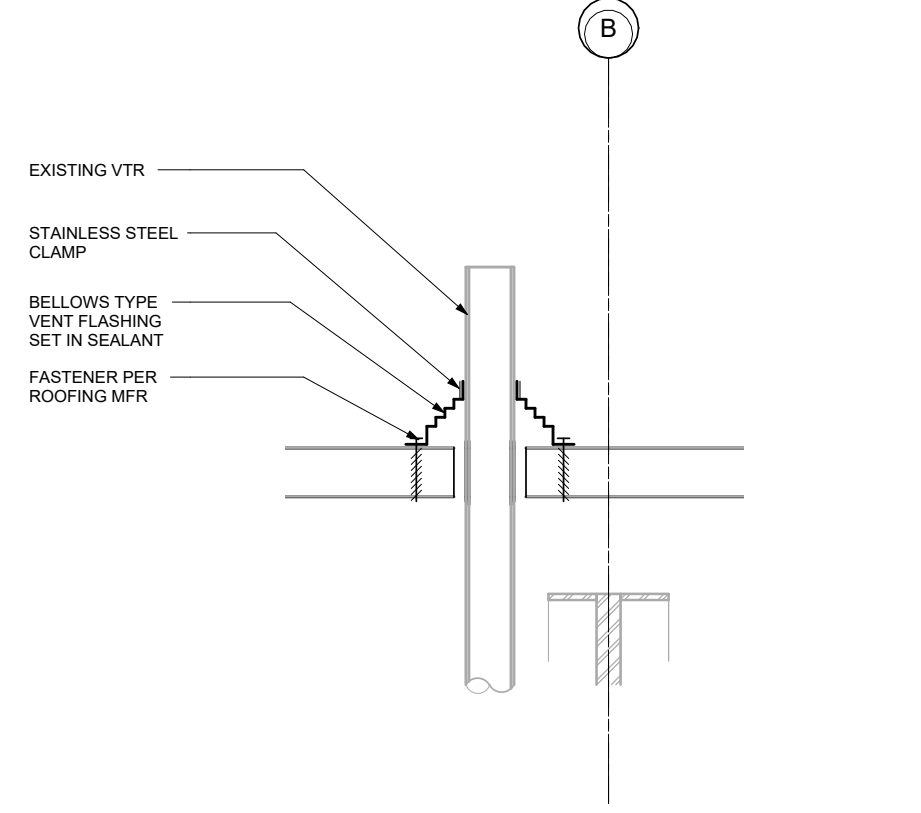
2 EAVE DETAIL

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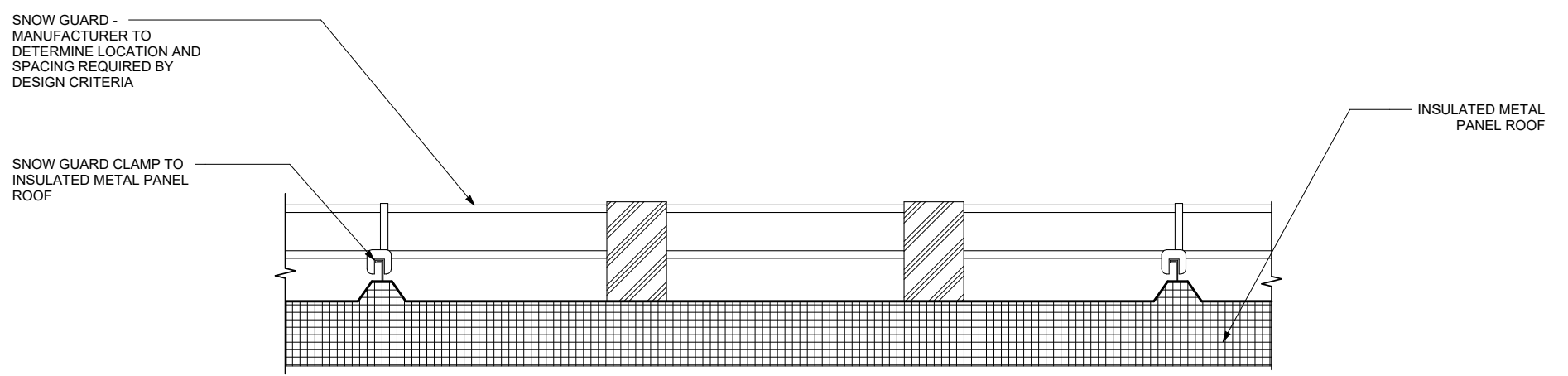
3 RIDGE DETAIL

SCALE: 0 6" 1' 2'



4 VENT THROUGH ROOF

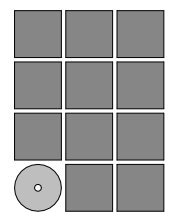
SCALE: 0 6" 1' 2'



5 SNOW GUARD

SCALE: 0 6" 1' 2'

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SHEET TITLE
EXTERIOR DETAILS

DATE: FEBRUARY, 2024
FILE: 22011

A801

ABBREVIATIONS

AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
AISC	AMERICAN INSTITUTE OF STEEL CONSTR.
ALT	ALTERNATE
APA	AMERICAN PLYWOOD ASSOCIATION
ARCH	ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
BLKG	BLOCKING
BM	BEAM
BOC	BOTTOM OF CONCRETE
BOD	BOTTOM OF DECK
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BTWN	BETWEEN
CIP	CAST IN PLACE (CONCRETE)
CJP	COMPLETE JOINT PENETRATION
CLR	CLEAR
COL	COLUMN
CONN	CONNECTION
CONT	CONTINUOUS
CVN	CHARPY V NOTCH
DIAM	DIAMETER
DWGS	DRAWINGS
(E)	EXISTING
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATION
EW	EACH WAY
EQ	EQUAL
FC	CONCRETE COMPRESSIVE STRENGTH
FDN	FOUNDATION
FOC	FACE OF CONCRETE
FT	FEET
FTG	FOOTING
GA	GAGE OR GAUGE
GALV	GALVANIZED
HI	HIGH
HORIZ	HORIZONTAL
HS	HEADED STUD
HSB	HORIZONTAL SLOTTED HOLE
HSS	HOLLOW STRUCTURAL SECTION
IE	INVERT ELEVATION
INV	INVERT
LO	LOW
MAX	MAXIMUM
MECH	MECHANICAL
MF	MOMENT FRAME
MIN	MINIMUM
MT	MAGNETIC PARTICLE STRIP
NA	NOT APPLICABLE
NFS	NON FROST SUSCEPTIBLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OWSJ	OPEN WEB STEEL JOIST
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
REINF	REINFORCING
RT	RADIOGRAPHIC TEST
SDI	STEEL DECK INSTITUTE
SJI	STEEL JOIST INSTITUTE
SQ	SQUARE
STD	STANDARD
TBD	TO BE DETERMINED
TEMP	TEMPERATURE
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TS	TUBE STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UT	ULTRASONIC
VERT	VERTICAL
W	WIDE FLANGE DESIGNATION
WF	WIDE FLANGE
WP	WORK POINT
WWF	WELDED WIRE FABRIC
W/	WITH

STATEMENT OF SPECIAL INSPECTIONS

THE FOLLOWING SPECIAL INSPECTIONS SHALL BE PERFORMED BY QUALIFIED PERSONNEL EMPLOYED BY THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT.

SPECIAL INSPECTOR QUALIFICATIONS:
THE SPECIAL INSPECTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING THEIR COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING.

INSPECTION TASKS:
INSPECTION TASKS ARE LISTED IN THE ATTACHED TABLES AND IN THE 2012 EDITION OF THE IBC CHAPTER 17.

FABRICATOR APPROVAL:
SPECIAL INSPECTIONS REQUIRED BY SECTION 1705 ARE NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION (IBC 1704.2.5.2). HOWEVER, NON DESTRUCTIVE TESTING REQUIREMENTS CANNOT BE WAIVED PER AISC 360-10 SECTION N7. THE CONTRACTOR'S FABRICATOR SHALL PERFORM OR ENGAGE A QUALIFIED TESTING AGENCY TO PERFORM REQUIRED TESTING ON THE PREMISES OF THE FABRICATOR. TESTING DOCUMENTATION SHOWING COMPLIANCE SHALL BE SUBMITTED TO THE OWNER UPON COMPLETION OF TESTING.

REPORT REQUIREMENTS:
REPORTS SHALL BE COMPLETED ON A DAILY BASIS AND DISTRIBUTED ON A WEEKLY BASIS. COPIES OF REPORTS SHALL BE DISTRIBUTED TO THE GENERAL CONTRACTOR, THE ENGINEER OF RECORD AND THE ARCHITECT OF RECORD. REPORTS SHALL INDICATE WHETHER THE WORK WAS OR WAS NOT COMPLETED IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR. IF THEY ARE NOT CORRECTED, DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. A FINAL REPORT DOCUMENTING THE SPECIAL INSPECTIONS PERFORMED AND THE CORRECTION OF ANY DISCREPANCIES SHALL BE DISTRIBUTED AS NOTED ABOVE.

STRUCTURAL OBSERVATIONS:
THE OWNER SHALL EMPLOY THE REGISTERED DESIGN PROFESSIONAL TO PERFORM STRUCTURAL OBSERVATIONS AS FOLLOWS:

WIND:
FOR STRUCTURES SITED WHERE V_{asd} EXCEEDS 110 MPH AND WHERE ONE OR MORE OF THE FOLLOWING CONDITIONS EXIST:
1. WHERE THE STRUCTURE IS CLASSIFIED AS RISK CATEGORY III OR IV
2. THE BUILDING HEIGHT IS GREATER THAN 75 FT.
3. WHEN REQUIRED BY THE DESIGN PROFESSIONAL OR THE BUILDING OFFICIAL

SEISMIC:
WHERE THE STRUCTURE IS ASSIGNED TO SEISMIC DESIGN CATEGORY D, E OR F AND WHERE ONE OR MORE OF THE FOLLOWING CONDITIONS EXIST:
1. WHERE THE STRUCTURE IS CLASSIFIED AS RISK CATEGORY III OR IV
2. THE BUILDING HEIGHT IS GREATER THAN 75 FT.
3. WHEN REQUIRED BY THE DESIGN PROFESSIONAL OR THE BUILDING OFFICIAL

STRUCTURAL DESIGN CRITERIA SCHEDULE

CRITERIA	DESCRIPTION	VALUE	COMMENTS
CODE	IBC 2021		
WIND	BASIC WIND SPEED (3 SECOND GUST) RISK CATEGORY EXPOSURE FACTOR INTERNAL PRESSURE COEFFICIENT, G_{Cpi}	150 MPH II 1.16 ± 0.18 53.6 PSF	PER ASCE 7-11 BASIC WIND SPEED MAP ENCLOSED BUILDING PER ASLE 7-10
COMP. & CLADDING PRESSURES	ROOF INTERIOR - ZONE ① PERIMETER - ZONE ② CORNER - ZONE ③	 58.2 PSF 101.3 PSF 149.9 PSF	 100 Ft ² 100 Ft ² WIND VALUES SHOWN ARE ULTIMATE LOADS MULTIPLY BY 0.6 FOR ALLOWABLE LOADS VALUES MAY BE NEGATIVE OR POSITIVE VALUES MAY BE INTERPOLATED BETWEEN 10 SQFT AND 100 SQFT SEE ASCE 7-16 FOR ZONE LOCATIONS
ROOF LIVE LOADS	GROUND SNOW LOAD SNOW LOAD EXPOSURE FACTOR, C_t THERMAL FACTOR, C_i SNOW IMPORTANCE FACTOR, I_s FLAT ROOF SNOW LOAD, P_f SNOW DRIFT LOADS	40 PSF 0.9 1.1 1.0 27.72 PSF PER ASCE 7-16	

STRUCTURAL NOTES

ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS, THE SPECIFICATIONS AND NOTES LISTED BELOW. MINIMUM PROVISIONS OF THE INTERNATIONAL BUILDING CODE (IBC 2017), AND LOCAL AMENDMENTS SHALL APPLY WHERE DETAILS ARE NOT SHOWN OR DESCRIBED.

ALL PRE-FABRICATED HANGERS AND CONNECTORS NOTED IN THE PLANS ARE THE PRODUCT OF THE SIMPSON STRONG-TIE COMPANY. HANGERS AND CONNECTORS MADE BY OTHER MANUFACTURER'S MAY BE CONSIDERED FOR SUBSTITUTION IF THE HANGER OR CONNECTOR HAS EQUAL OR GREATER LOAD CAPACITY, EQUAL OR GREATER CORROSION RESISTANCE AND BE OF AN APPROPRIATE EQUAL CONFIGURATION. SUBMIT ICBO FOR REVIEW AND APPROVAL WITH ANY REQUEST FOR SUBSTITUTION.

STRUCTURAL OBSERVATIONS

THE OWNER SHALL EMPLOY AN REGISTERED DESIGN PROFESSION TO PERFORM STRUCTURAL OBSERVATIONS AS DEFINED IN SECTION 1704.6 OF THE IBC AT SIGNIFICANT STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY OF SPECIAL INSPECTIONS REQUIRED BY SECTION 1704 OF THE CODE.

AS-BUILT DRAWINGS

CONTRACTOR SHALL MAINTAIN A CURRENT SET OF DRAWINGS ON SITE, MODIFIED TO REFLECT ALL DESIGN CHANGES TO THE ORIGINAL DRAWING SET.

NOTE TO CONTRACTOR

ATTACHMENT OF ROOF BY OTHERS

PND ENGINEERS INC IS NOT RESPONSIBLE FOR SAFETY PROGRAMS, METHODS, OR PROCEDURES OF OPERATION, OR THE CONSTRUCTION OF THE DESIGN SHOWN ON THESE DRAWINGS. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.

DEFERRED SUBMITTALS

DEFERRED SUBMITTAL ITEMS SHALL BE REVIEWED BY THE EOR AND THEN SUBMITTED TO THE BUILDING OFFICIAL.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CALCULATION AND DRAWINGS STAMPED BY AN ALASKA REGISTERED PROFESSIONAL ENGINEER FOR THE FOLLOWING CONTRACTOR DESIGNED ITEMS:

- SEISMIC RESTRAINT OF ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS
- ROOFING ATTACHMENT

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION	REF. STANDARD	REMARKS
1 MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK:			
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	PERIODIC	APPLICABLE ASTM MATERIALS STANDARDS	
b. MANUFACTURER'S CERTIFIED TEST REPORTS	PERIODIC		

SCHEDULE OF CONSTRUCTION MATERIALS

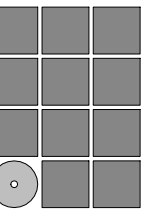
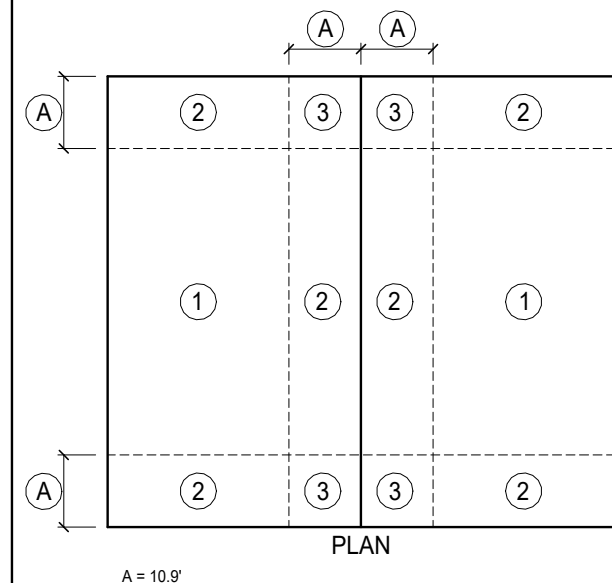
LIGHT GAGE STEEL	APPLICATION	PROFILE/SIZE	TYPE	GRADE	GALV
	LIGHT GAUGE STUDS	350S200x43MIL UNO	ASTM A653	GRADE 33	G60
	ZEE & CEE PURLINS	SEE PURLINS	ASTM A653	GRADE 50	G60

NOTE: ALL SCREWS SECURRING COLD FORMED STEEL & CONNECTOR SHALL HAVE A MINIMUM OF 3-THREADS EXPOSED

SPECIAL INSPECTION FOR WIND RESISTANCE

VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION	REMARKS
1 ARCHITECTURAL COMPONENTS: ROOF AND WALL CLADDING.	PERIODIC	
2 COLD-FORMED STEEL IN LIGHT-FRAME CONSTR.: NAILING, BOLTING, ANCHORING AND FASTENING OF COMPONENTS.	PERIODIC	

ROOF DECK WIND UPLIFT ZONE DIAGRAM



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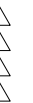
9360 GLACIER HIGHWAY, SUITE 100
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907-586-2093
C.A.N. # AEC2250
PND PROJECT #222050



2/14/24

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WASTE WATER TREATMENT PLANT
ROOF REPLACEMENT
CRAIG, ALASKA

REVISIONS



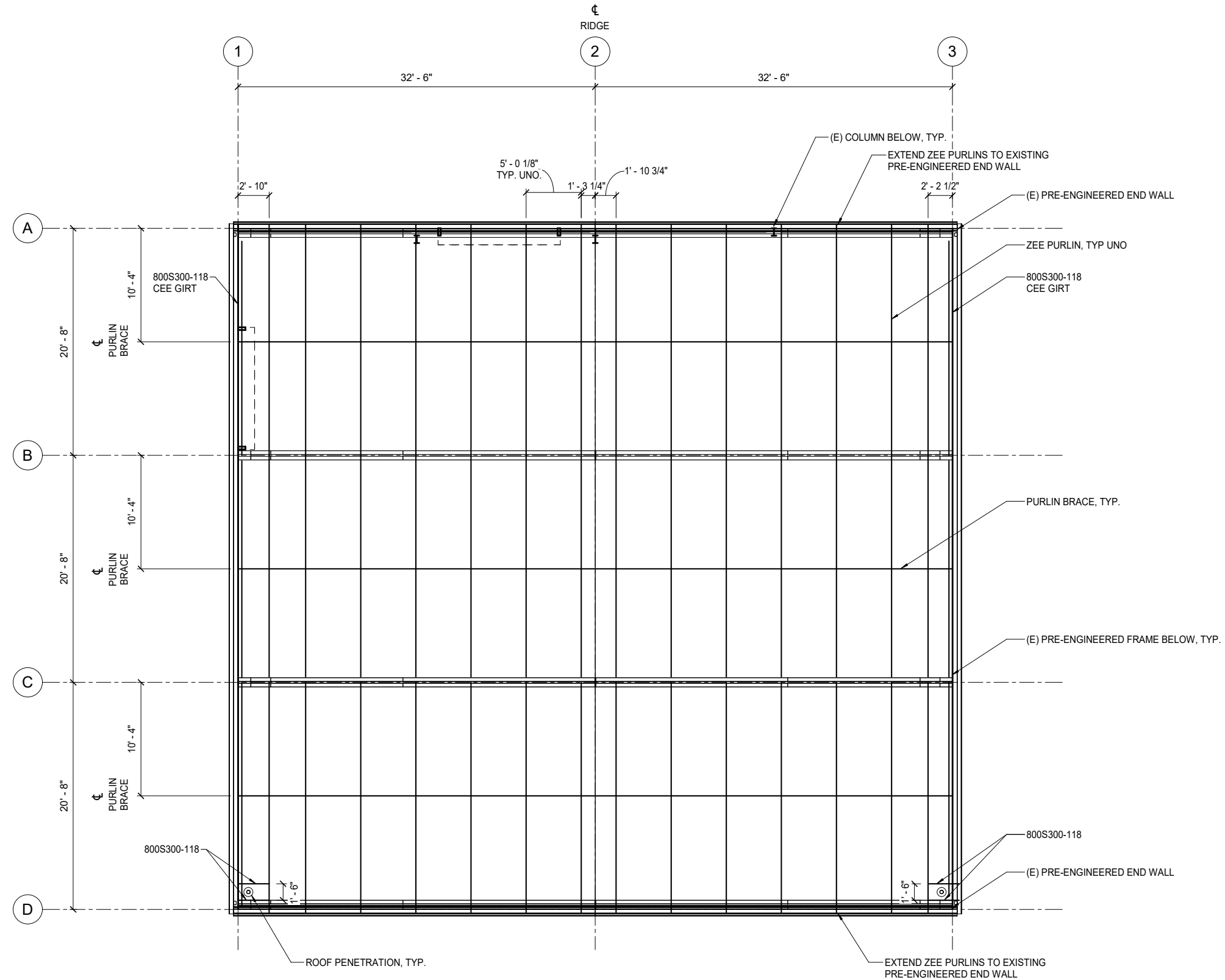
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GENERAL NOTES

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FILE: 222050

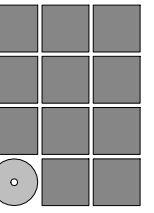
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1 ROOF FRAMING PLAN
3/16" = 1'-0"



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PND PROJECT #222050



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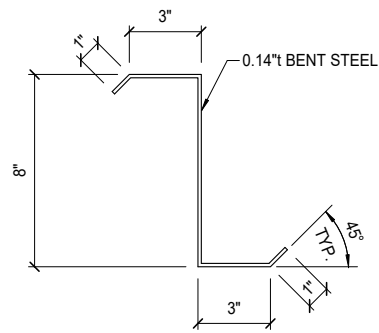
CITY OF CRAIG
WASTE WATER TREATMENT PLANT
ROOF REPLACEMENT
CRAIG, ALASKA

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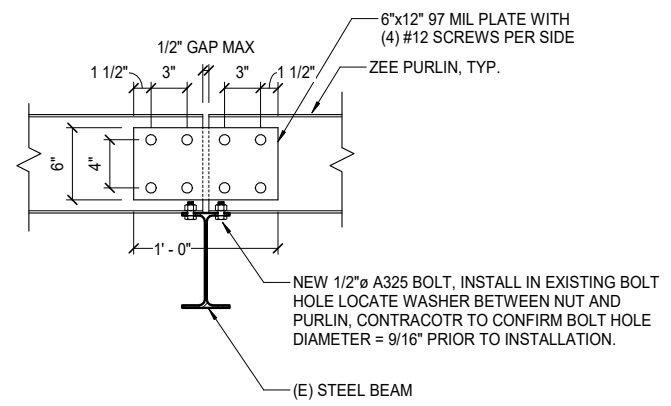
SHEET TITLE
ROOF FRAMING
PLAN

DATE: FEBRUARY, 2024
FILE: 222050

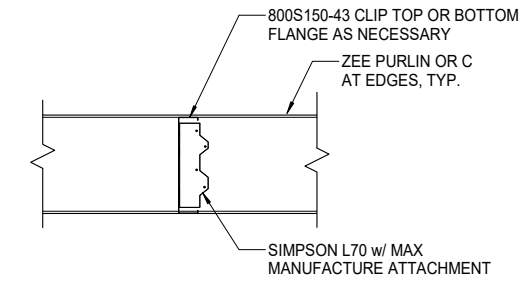
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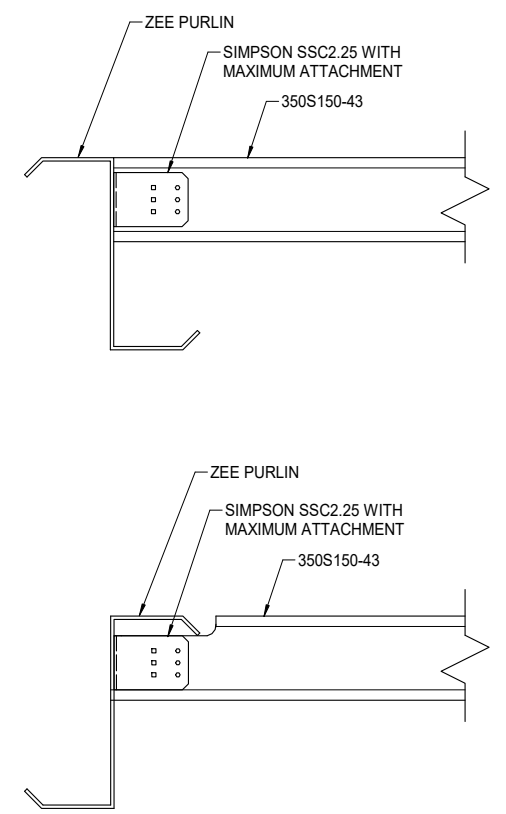
1 TYPICAL ZEE PURLIN
3" = 1'-0"



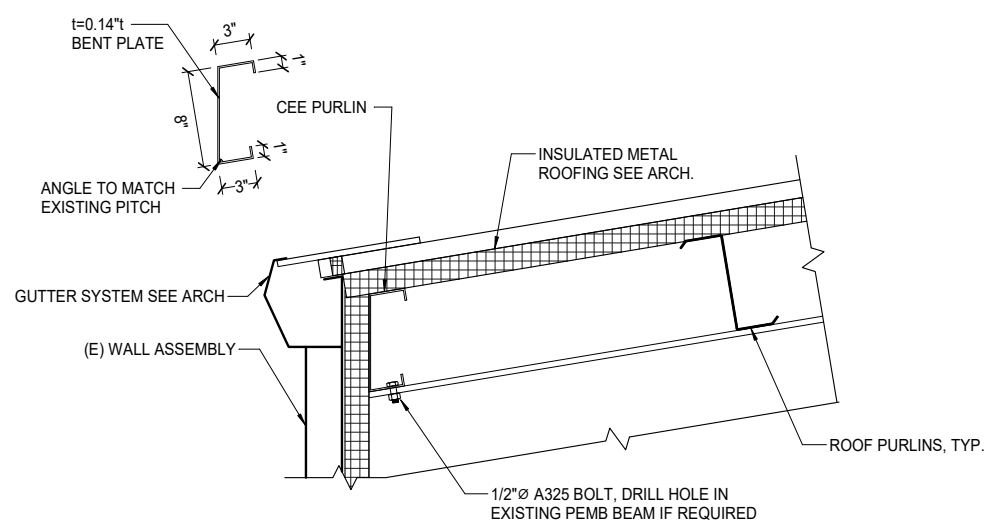
2 TYPICAL PURLIN TO BEAM CONNECTION
1 1/2" = 1'-0"



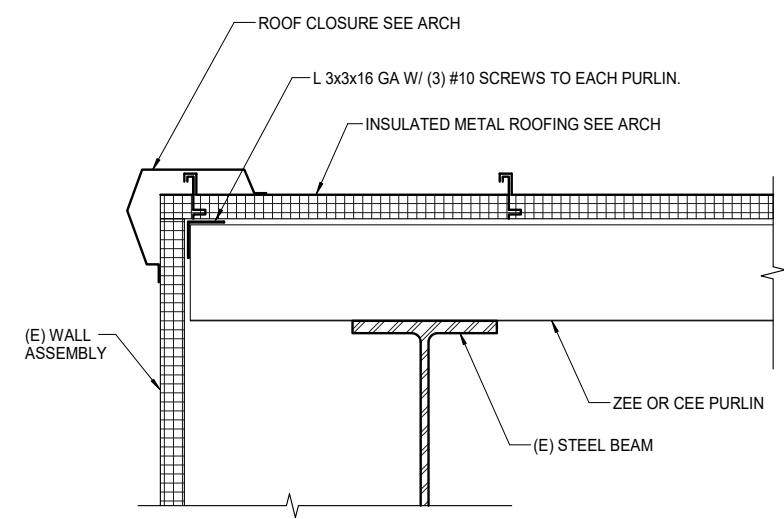
3 TYPICAL PURLIN BRACE ATTACHMENT
1 1/2" = 1'-0"



4 TYPICAL ROOF PENETRATION SUPPORT
3" = 1'-0"

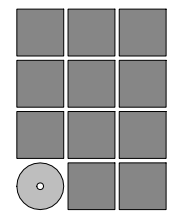


5 RAKE DETAIL
1 1/2" = 1'-0"



6 RAKE DETAIL 2
1 1/2" = 1'-0"

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C.A.N. # AECC250
PND PROJECT #222050



**CITY OF CRAIG
WASTE WATER TREATMENT PLANT
ROOF REPLACEMENT
CRAIG, ALASKA**

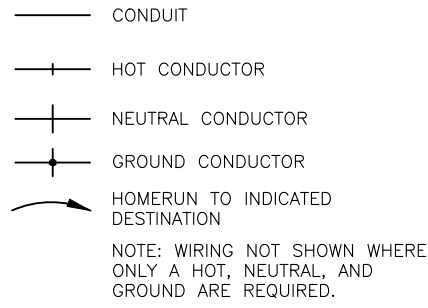
REVISIONS
▲
▲
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SHEET TITLE
**STRUCTURAL
DETAILS**

DATE: FEBRUARY, 2024
FILE: 222050

S301

WIRING

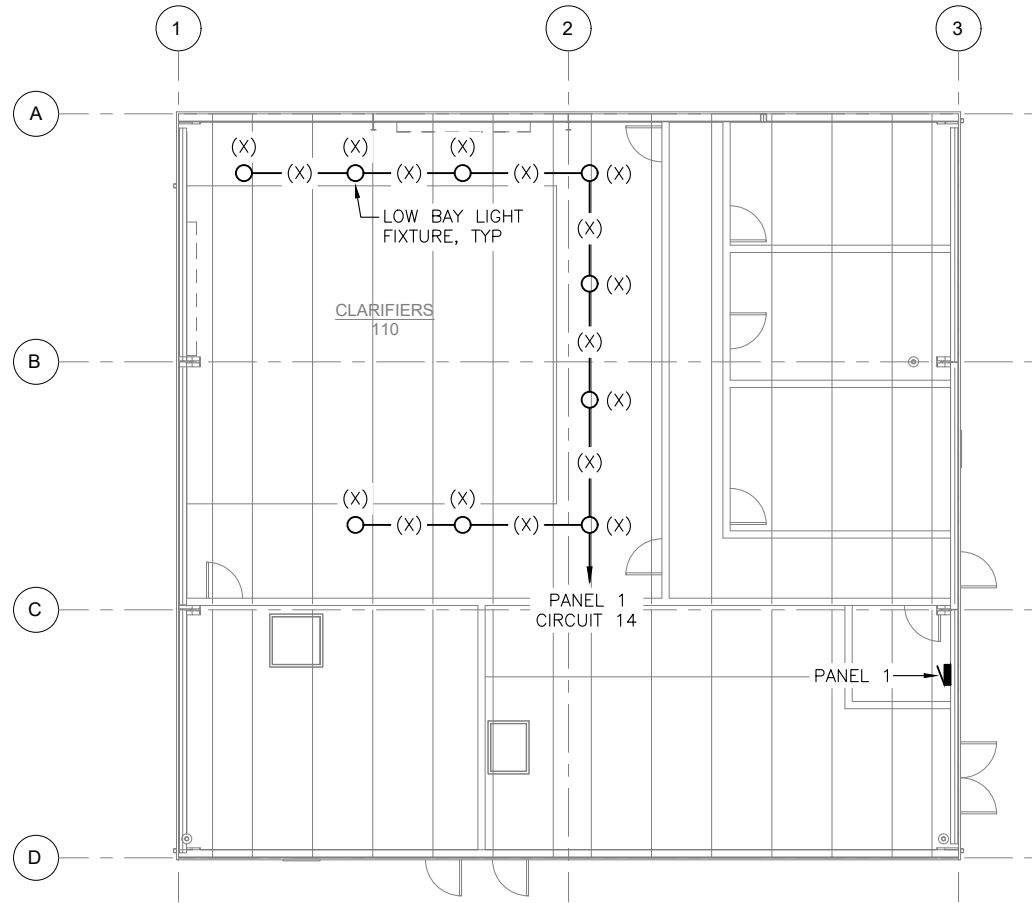


SWITCHING

S₃ 3-WAY TOGGLE SWITCH

REFERENCE SYMBOLS

(E) EXISTING
 (X) REMOVE

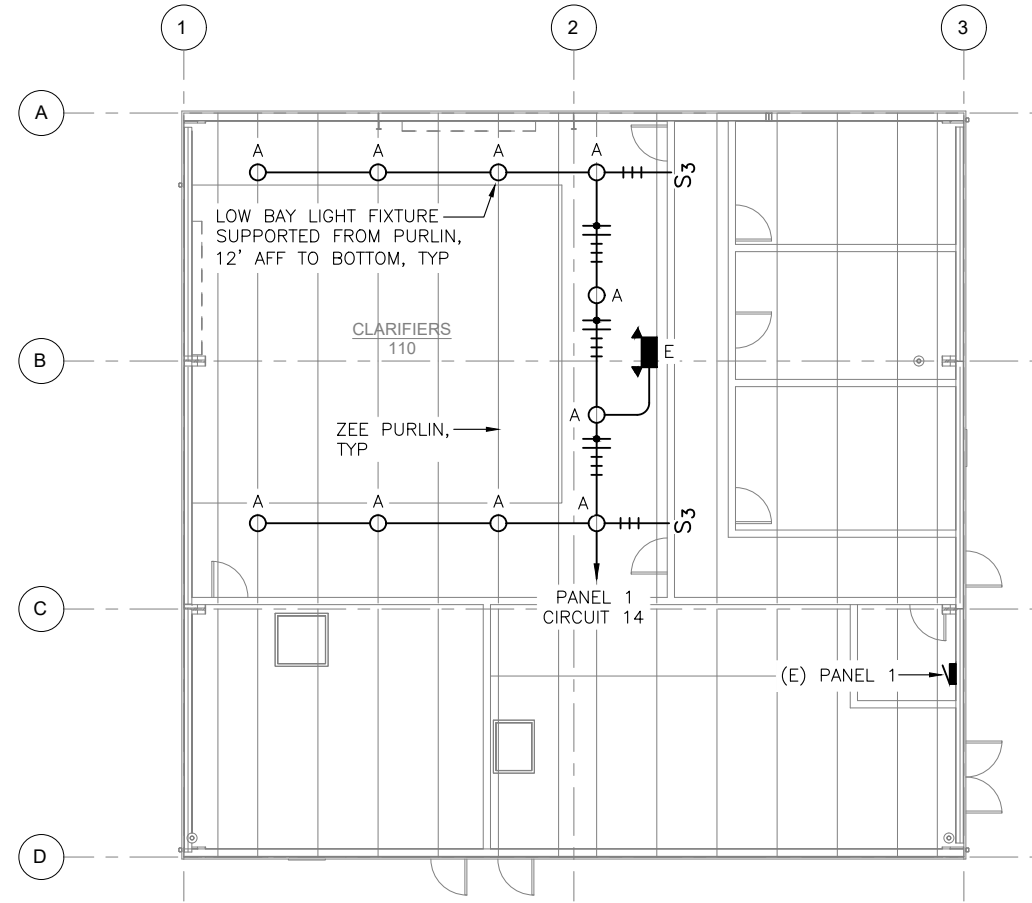


1 SECOND FLOOR LIGHTING DEMOLITION PLAN
 SCALE: 0 4' 8' 16'

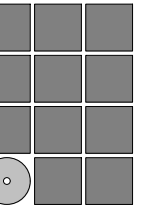


NOTES:

1. CLARIFIERS 110 IS A CLASS I, DIVISION 2, GROUP D HAZARDOUS LOCATION. THE ELECTRICAL INSTALLATION SHALL COMPLY WITH NFPA 820 AND NEC ARTICLES 500 AND 501.
2. TYPE A LIGHT FIXTURE: HAZARDOUS RATED LOW BAY, HEAT RESISTANT, INTERNAL PRISMATIC GLASS GLOBE, BOROSILICATE LENS, DOME REFLECTOR, PENDANT MOUNTED, HOLOPHANE HRL 8L GO AS 50K PM HRLDR, OR SIMILAR.
3. TYPE E LIGHT FIXTURE: HAZARDOUS RATED EMERGENCY LIGHTING UNIT, FULLY ADJUSTABLE HEADS, EMERGI-LITE HPHRL D L15, OR SIMILAR.
4. RACEWAY: RIGID METAL CONDUIT AND INTERMEDIATE METAL CONDUIT WITH LISTED THREADED OR THREADLESS FITTINGS. SEAL AS REQUIRED. 1/2-INCH MINIMUM SIZE.
5. WIRE: #12 AWG, STRANDED COPPER, THHN OR THWN-2 INSULATION.
6. HANGERS AND SUPPORTS: GALVANIZED STEEL.
7. HARDWARE: STAINLESS STEEL.



2 SECOND FLOOR LIGHTING PLAN
 SCALE: 0 4' 8' 16'



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Yorba
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FEBRUARY 16, 2024

**CITY OF CRAIG
 WASTE WATER TREATMENT PLANT
 ROOF REPLACEMENT
 CRAIG, ALASKA**

NO.	REVISIONS



SHEET TITLE
**SECOND FLOOR
 PARTIAL LIGHTING
 PLANS**

DATE: FEBRUARY, 2024
 FILE: Project Number

E201