Building Permit

Permit No. 01-24 Date: March 22, 2024 Expires: April 30, 2025

Permitee's Name: Craig Tribal Association

Building Address: 1705 Windy Loop Craig AK, 99921
(Lot 18E-1, Tract 18, USS 2611)

QUESTIONS OR COMMENTS?
CONTACT THE CRAIG BUILDING OFFICIAL
(CRAIG CITY PLANNER) AT 907-826-3275.

***Samantha A. Wilson*, Craig Building Official**
Building Official
POST ON BUILDING SITE

CITY OF CRAIG, ALASKA
BUILDING PERMIT APPLICATION

Applicant Information

Name: Lorraine DeAsis (THRHA)
Mailing Address: 5446 Jenkins Dr
Street Address: 5446 Jenkins Dr
City, State, Zip: Juneau, AK 99801
Telephone: (907) 780-3188

Owner Information (if not also applicant)

Name: Craig Tribal Association
Mailing Address: PO Box 828
Street Address: 505 Front St.
City, State, Zip: Craig, AK 99921
Telephone: 907-826-3996

Property Description

Subdivision Name:
Survey Number: 2611 Tract Number: 18 Lot Number: 18B-1 Block Number:
Army Corps of Engineers Permit Name and/or Number:

Building Activity Information (please check one)

- ☐ Single Family Home
- ☐ Duplex
- ☐ Triplex
- ☒ Fourplex or greater
- ☐ Deck
- ☐ Porch
- ☐ Retaining Wall
- ☐ Addition
- ☒ Commercial Building
- ☐ Wannigan
- ☐ Garage
- ☐ Shed
- ☐ Mobile Home (Year and Make)
- ☐ Travel Trailer (Year and Make)
- ☐ Other (Please describe):

Height of Building at Roof Eve: 12'-1" Closest setback to property line: 10'-0"
Building Dimensions: See Plans Area of building footprint: 9613 SF
What use(s) do you propose for the building? Independent Senior Living Center

Site Plan

☒ **Please complete on reverse side or attached sheet a site plan showing all proposed construction.**

Owner's/Applicant's Statement

I acknowledge that I have read this application and state that the above information is correct. I agree to comply with all codes and ordinances of the City of Craig applicable to building and construction, and all land use regulations as pertaining to this permit. Any violation of land management regulations are the responsibility of the property owner. This permit becomes void upon completion of the approved work, or one year, whichever comes first. Work not documented in this application is not authorized by this building permit. I understand that this permit is revocable if work is not completed consistent with this applicant or if work does not comply with the requirements of the City of Craig Municipal Code.
I agree to provide the City of Craig with an as-built survey of the lot in the event one is completed for this project.

Lorraine DeAsis 3-15-24 Curtis Cook 3-21-24
Signature of Applicant Date Signature of Property Owner (if other than applicant) Date

Special Conditions of Approval.

The following conditions of approval are made a part of this permit as provided by section 18.06.001B.6 of the Craig Land Development Code:

1. No construction may occupy any portion of the 10' property setback.
2. No commercial activity may take place on the property beyond typical uses permitted by medium-density residentially zoned property as outlined in section 18.05.002 of the Craig Municipal Code.
3. All property corners associated with intersections or sharp turns must maintain 20' of visibility as outlined section 18.05.002 G.2 of the Craig Municipal Code.

Permission is hereby granted to perform the above work in compliance with any and all conditions listed above and in compliance with the Craig Land Development Code and all other ordinances of the City of Craig and the State of Alaska pertaining to the construction of buildings.

Signature of City Building Official Samantha Wilson Date 3/22/2024 3/22/2024

January 2005 Form

Plan Review Approval Letter & Certificate
Grantor: State of Alaska, Department of Public Safety, Division of Fire & Life Safety
Grantee: TLINGIT HAIDA REGIONAL HOUSING AUTHORITY
Recording District:
Legal Description:

State of Alaska
Office of the State Fire Marshal
Plan Review

This is to certify that the plans for this building were reviewed by the *State Fire Marshal* on 3/15/2024 for conformance with AS 18.70.010 -- 100; 13 AAC 50.027.

This certificate shall be posted in a conspicuous place on the premises named THRHA Craig Senior Center and shall remain posted until construction is completed.

NOTICE: Any changes or modifications to the approved plans **must** be resubmitted for review by the *State Fire Marshal*.

Plan Review #: 2024ANCH0121 By: Steve Crouch
Building Plans Examiner I

Authority: AS 18.70.080
Form: 12-741
(6/01) **Full Plan Review**

THE STATE of ALASKA
GOVERNOR MIKE DUNLEAVY

Department of Public Safety
DIVISION OF FIRE AND LIFE SAFETY
Plan Review Bureau – Anchorage
5700 East Tudor Road
Anchorage, Alaska 99705-1225
Main: 907.269.2004
Fax:907.269.0098

03/15/2024

Return to Applicant: Nycole Gizinski
7180 Revilla Rd, Suite 300
Ketchikan, AK 99901

SUBJECT:	THRHA Craig Senior Center - Full Plan Review
ADDRESS:	Corner of Windy Loop & Windy Way
CITY:	Craig
PLAN REVIEW:	2024ANCH0121
TYPE OF CONTRUCTION:	V-B
OCCUPANCY:	R-2 Residential Long Term

2021 INTERNATIONAL BUILDING AND FIRE CODE

Dear Nycole Gizinski:

Plans for the Full Plan Review have been reviewed by this office for conformity with the State Fire Safety Regulations and are hereby approved. Enclosed is a certificate of approval that must be posted on the premises until completion of the above project.

Other requirements have been identified for your project. An application with shop drawings for the Automatic Fire System must be submitted for review and approval within ninety (90) days and prior to the installation on the system.

It is prohibited to occupy this building until construction is completed, and if applicable, the Automatic Fire System(s) is installed, tested, and certified as operable. Any changes to the approved plans must be submitted to this office for review and approval.

Approval of submitted plans is not approval of omissions or oversights by this office or noncompliance with any applicable regulations of the Municipal Government. The plans have not been reviewed for compliance with the federal Americans with Disabilities Act or structural requirements.

It must be understood that the inclusion of and compliance with State Fire Safety Regulations does not preclude the necessity of compliance with the requirements of local codes and ordinances.

If we can be of further assistance in this matter, please feel free to contact us at the address above.

Approved By:
Steve Crouch
Building Plans Examiner I
steve.crouch@alaska.gov

Enclosure: Approval Certificate

THRHA Craig Senior Center
Phase I

Craig, AK

PARTICIPANTS

CLIENT:
Tlingit-Haida Regional Housing Authority
5446 Jenkins Drive
Juneau, AK 99801
907.780.6868

ARCHITECT / CIVIL ENGINEER:
R&M ENGINEERING-KETCHIKAN, INC.
7180 REVILLA ROAD, SUITE 300
KETCHIKAN, ALASKA 99901
907.225.7917

MECHANICAL ENGINEER:
SPURLOCK & ASSOCIATES
3705 ARCTIC BLVD #1567
ANCHORAGE, AK 99503
907.344.8222

ELECTRICAL ENGINEER:
EIC Engineering
6927 Old Seward HWY, Suite 200
Anchorage, AK 99518
907.349.9712

CODE REVIEW

PROJECT LOCATION:
1701 Hamilton Dr., Lot 18E-1, Tract 18, USS 2611

IBC 2021 REVIEW

I. TYPE OF CONSTRUCTION (Chapter 6)
V-B
SPRINKLED - YES

II. USE & OCCUPANCY CLASSIFICATION (Chapter 3)
R-2

III. OCCUPANCY SEPARATIONS (Table 508.4)
1/2-Hr Separation Between Dwelling Units
1/2 Hr Separation Between Dwelling Units & Corridors
1 Hr Seoaration Residential and Assembly

IV. BUILDING AREA (Table 503)
ALLOWED:
RESIDENTIAL: UL SQ, 4 Stories

PROPOSED: 1 STORY, 9613 SF

V. BUILDING HEIGHT (Table 503)
ALLOWED: 60'
PROPOSED: 19' - 3"

VI. OCCUPANT LOAD (Table 1004.1.2)

Residential	*2272 GROSS SF / 200*	*12*
Unoccupied	*7092 GROSS SF / 300*	*24*
	TOTAL OCCUPANT LOAD	*36*

ZONING REVIEW

CITY OF CRAIG TITLE 18 REVIEW

ZONING: RM - MEDUIM DENSITY RESIDENTIAL

LOT SIZE:
COVERAGE:
MAXIMUM: 50%
PROPOSED: 26.5%
BUILDING GROSS AREA: 9613 SF
BUILDING HEIGHT:
MAXIMUM: 30'
PROPOSED: 11' - 0"
SETBACKS:
MINIMUM: 10' FROM ALL LOT LINES
PROPOSED: SEE SITE PLAN

PARKING:
MINIMUM: 1 SPACE FOR EVERY 1-1/2 BEDROOMS
4 BEDROOMS / 1.5 = 3 SPACES MIN
PROPOSED: 3+

SHEET INDEX

REVISIONS:

THRHA - Craig Senior Center
PHASE 1

STATUS:
CONSTRUCTION DRAWINGS

DRAWN BY: NMG
CHECKED BY: NMG
DATE: 3.13.24
PROJECT #: 222321.02

R&M
R&M ENGINEERING-KETCHIKAN, INC.
7180 REVILLA ROAD, SUITE 300
KETCHIKAN, ALASKA 99901
PH: 907.225.7917
www.ketchikanengineer.com

STATE OF ALASKA
49 TH
NYCOLE M. GIZINSKI
120569
3.13.24
REGISTERED PROFESSIONAL ARCHITECT

SHEET DESCRIPTION:
Cover Sheet

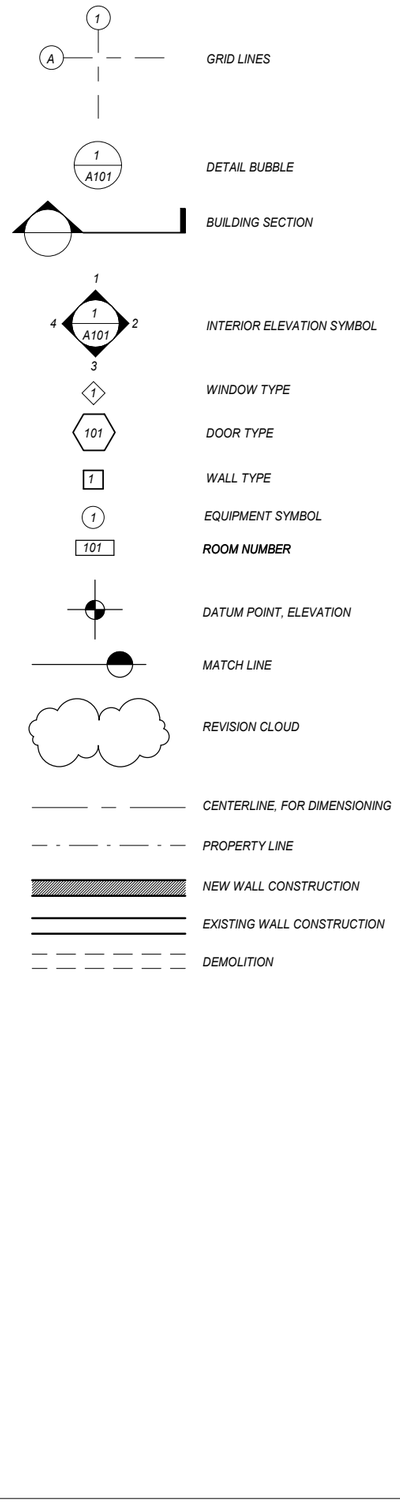
G100

SHEET:
01 *of* **xx**

ARCHITECTURAL ABBREVIATIONS

AB	ANCHOR BOLT
ABV	ABOVE
ACOUS	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	ABOVE FINISHED SLAB
AL	ALUMINUM
ALT	ALTERNATE
AP	ACCESS PANEL
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECT(URAL)
ASPH	ASPHALT
AUTO	AUTOMATIC
BD	BOARD
BKG	BACKING
BLDG	BUILDING
BLKG	BLOCKING
BLW	BELOW
BOT	BOTTOM
BRKT	BRACKET
BSMT	BASEMENT
BTW	BETWEEN
BURS	BUILT UP ROOFING SYSTEM
CAB	CABINET
CB	CATCH BASIN
CCTV	CLOSED CIRCUIT TELEVISION
CG	CORNER GUARD
CEM	CEMENT
CER	CERAMIC
CER TILE	CERAMIC TILE
CL	CENTERLINE
CLG	CEILING
CLJ	CONTROL JOINT
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CASED OPENING
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CORR	CORRIDOR
CRPT	CARPET
CSWK	CASEWORK
CT	CARPET TILE
CUST	CUSTOM
CW	COLD WATER
DBL	DOUBLE
DEMO	DEMOLISH
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DIM PT	DIMENSION POINT
DISP	DISPENSER
DIST	DISTANCE
DLV	DOOR LOUVER
DMPF	DAMPROOFING
DN	DOWN
DR	DRAIN
DS	DOWNSPOUT
DT	DRAIN TILE
DWG	DRAWING
DWGS	DRAWINGS
DWR	DRAWER
(E)	EXISTING
E	EAST
EA	EACH
ECAB	ELECTRICAL CABINET
EG	EDGE GUARD
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATION
EMER	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EO	ELECTRICAL OUTLET
EQL SP	EQUALLY SPACED
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
EXP	EXPANSION
EXPO	EXPOSED
EXIST	EXISTING
EXT	EXTERIOR
F/F	FACE TO FACE
F.F	FINISH FLOOR
FA	FIRE ALARM
FBD	FIBERBOARD
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FND	FOUNDATION
FDV	FIRE DEPARTMENT VALVE
FE	FIRE EXTINGUISHER
FEB	FIRE EXTINGUISHER BRACKET
FEC	FIRE EXTINGUISHER CABINET
FHY	FIRE HYDRANT
FIN	FINISH
FIN GR	FINISH GRADE
FL	FLOOR(ING)
FLASH	FLASHING
FLEX	FLEXIBLE
FLR SK	FLOOR SINK
FLUOR	FLUORESCENT
FNR	FEMININE NAPKIN RECEPTACLE
FNTD	FEMININE NAPKIN-TAMPON DISPENSER
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONARY
FOS	FACE OF STUD
FRPF	FIREPROOFING
FRZ	FREEZER
FSB	FOLDING SHOWER BENCH
FSTNR	FASTENER
FT	FOOT, FEET
FTG	FOOTING
FURN	FURNITURE
FURR	FURRING
FUS	FOLDING UTILITY SEAT
FUT	FUTURE
FXTR	FIXTURE
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GL	GLASS
GL BLK	GLASS BLOCK
GLULAM	GLUE LAMINATED
GLZ	GLAZING
GND	GROUND
GR	GRADE, GRADING
GRV	GRAVEL
GYP BD	GYPSUM BOARD
H	HIGH
HB	HOSE BIB
HC	HOLLOW CORE
HCP	HANDICAPPED
HD	HEAD
HDBD	HARDBOARD
HDWE	HARDWARE
HM	HOLLOW METAL
HNDRL	HANDRAIL
HR	HOUR
HT	HEIGHT
HVAC	HEATING, VENTILATION, AIR CONDITIONING, & COOLING
HW	HOT WATER
ID	INSIDE DIAMETER
INCAND	INCANDESCENT
INCL	INCLUDING
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
JB	JUNCTION BOX
JT	JOINT
KIT	KITCHEN
KPL	KICK PLATE
KS	KNEE SPACE
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LB	POUND
LF	LINEAR FOOT
LG	LENGTH
LH	LEFT HAND
LIN	LINEAR
LKR	LOCKER
LT	LIGHT
LT WT	LIGHT WEIGHT
LTG	LIGHTING
MACH	MACHINE
MAN	MANUAL
MATL	MATERIAL
MAX	MAXIMUM
MC	MEDICINE CABINET
MECH	MECHANICAL
MEMB	MEMBRANE
MET	METAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MOD	MODULAR
MTD	MOUNTED
MTG	MOUNTING
MULL	MULLION
(N)	NEW
N	NORTH
NA	NOT APPLICABLE
NAT	NATURAL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED-CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED-OWNER INSTALLED
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OVHD	OVERHEAD
PBD	PARTICLE BOARD
PCF	POUNDS PER CUBIC FOOT
PERF	PERFORATED
PERIM	PERIMETER
PERM	PERMANENT
PERP	PERPENDICULAR
PH	PANIC HARDWARE
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAT	PLATFORM
PLBG	PLUMBING
PLF	POUNDS PER LINEAL FOOT
PLYWD	PLYWOOD
PNL	PANEL
PREFAB	PREFABRICATED
PRKG	PARKING
PROJ	PROJECT
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
PTD	PAPER TOWEL DISPENSER
PTD/R	PAPER TOWEL DISPENSER W/ RECEPTACLE
PTR	PAPER TOWEL RECEPTACLE
PVMT	PAVEMENT
PWR	POWER
QT	QUARRY TILE
QTR	QUARTER
QTY	QUANTITY
R	RISER
RA	RETURN AIR
RAD	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFRIGERATOR
REINF	REINFORCED
REQD	REQUIRED
RESIL	RESILIENT
RET	RETURN
REV	REVISION
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
S	SOUTH
SA	SUPPLY AIR
SASU	SELF-ADHERING SHEET UNDERLAYMENT
SB	SPLASH BLOCK
SC	SOLID CORE
SCD	SEAT COVER DISPENSER
SCHED	SCHEDULED
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SECT	SECTION
SEP	SEPARATION
SF	SQUARE FOOT
SHR	SHOWER
SHT	SHEET(ING)
SHV	SHELVES, SHELVING
SIM	SIMILAR
SK	SINK
SP	SPACE, SPACING
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SPKR	SPEAKER
SQ	SQUARE
SQ IN	SQUARE INCH
SST	STAINLESS STEEL
ST	STREET
STAG	STAGGERED
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP CLG	SUSPENDED CEILING
SERV	SERVICE
SYM	SYMBOL
T	TREAD
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
TB	TOWEL BAR
TEL	TELEPHONE
TEMP	TEMPORARY
THERM	THERMAL
THK	THICK, THICKNESS
THRES	THRESHOLD
THRU	THROUGH
TOL	TOLERANCE
TYP	TYPICAL
UC	UNDER COUNTER
UNFIN	UNFINISHED
UON	UNLESS OTHERWISE NOTED
UR	URINAL
UTIL	UTILITY
VAC	VACUUM
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VF	VERIFY IN FIELD
VNR	VENEER
VOL	VOLUME
VWC	VINYL WALL COVERING
W	WEST
W/	WITH
W/O	WITHOUT
W/W	WALL TO WALL
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE
WHCH	WHEEL CHAIR
WO	WHERE OCCURS
WR	WATER RESISTANT
WSCT	WAINSCOTING
WT	WEIGHT
WTRPRF	WATERPROOFING
WWF	WELDED WIRE FABRIC
XFMR	TRANSFORMER

DRAWING SYMBOLS



GRID LINES

DETAIL BUBBLE

BUILDING SECTION

INTERIOR ELEVATION SYMBOL

WINDOW TYPE

DOOR TYPE

WALL TYPE

EQUIPMENT SYMBOL

ROOM NUMBER

DATUM POINT, ELEVATION

MATCH LINE

REVISION CLOUD

CENTERLINE, FOR DIMENSIONING

PROPERTY LINE

NEW WALL CONSTRUCTION

EXISTING WALL CONSTRUCTION

DEMOLITION

REVISIONS:

THRHA - Craig Senior Center
PHASE 1

STATUS:

CONSTRUCTION DRAWINGS

DRAWN BY: NMG
CHECKED BY: NMG
DATE: 3.13.24
PROJECT #:222321.02

R&M ENGINEERING-KETCHIKAN, INC.
7180 REVILLA ROAD, SUITE 300
KETCHIKAN, ALASKA 99901
PH: 907.225.7917
www.ketchikanengineer.com

STATE OF ALASKA
49 TH
NYCOLE M. GIZINSKI
120569
3.13.24
REGISTERED PROFESSIONAL ARCHITECT

SHEET DESCRIPTION:

Abbreviations & Symbols

G101

SHEET:

02 *of* **xx**

GENERAL NOTES

HORIZONTAL DATA:

1) THE HORIZONTAL CONTROL IN THIS DRAWING ARE LOCAL GRID COORDINATES AT GROUND. THE BASIS OF BEARING IS GPS DELIVERED.

VERTICAL DATA:

1) ELEVATIONS DETERMINED ON THIS PROJECT HAVE BEEN ADJUSTED TO MEAN LOWER LOW WATER FOR CRAIG.

GENERAL NOTES:

1) ALL UTILITIES SHOWN WERE LOCATED FROM SURFACE EVIDENCE AND ASBUILT RECORDS BY THE CITY OF CRAIG.
2) THE PROPERTY LINES SHOWN ON THIS SURVEY CONSTITUTE A COMPLETE BOUNDARY RESOLUTION.
3) WATER DISTRIBUTION SYSTEM CONSTRUCTION SHALL BE ACCORDANCE WITH THESE PLANS, THE CITY OF CRAIG STANDARD SPECIFICATIONS, AND ADEC REGULATIONS AS CONTAINED IN 18-AAC-80, DRINKING WATER.
4) ALL TRENCHING, COMPACTION, AND AGGREGATES SHALL BE COMPLETED IN ACCORDANCE WITH THE CITY OF CRAIG STANDARD SPECIFICATIONS (DIVISION 20) UNLESS OTHERWISE NOTED.
5) WASTEWATER SYSTEM CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS, THE CITY OF CRAIG STANDARD SPECIFICATIONS AND ADEC REGULATIONS AS CONTAINED IN 18-AAC-72, WASTEWATER DISPOSAL.
6) MAINTAIN MINIMUM 10 FOOT HORIZONTAL, AND 18 INCH VERTICAL SEPARATION BETWEEN SEWER AND WATER MAIN LINES AT ANY POINT UNLESS OTHERWISE NOTED IN PLANS.
7) WATER MAINS SHALL CROSS OVER THE TOP OF SEWER MAINS WITH 18 INCHES OF SEPARATION BETWEEN OUTSIDE EDGES OF THE PIPES. THE WATER LINE JOINTS SHALL BE AT LEAST 9 FEET FROM THE SEWER JOINTS. SEE DETAILS.
8) WATER PIPE SHALL BE 4710 RESIN SDR11 HDPE PIPE.
9) GRAVITY SEWER MAINS AND SERVICES SHALL BE C900 PVC PIPE.
10) ALL PRESSURE SEWER MAINS AND LATERALS SHALL BE 4710 RESIN SDR11 HDPE PIPE.
11) DO NOT CHANGE UTILITY DESIGN, LINE, GRADE, SIZE, MATERIALS, ETC. WITHOUT APPROVAL FROM THE DESIGN ENGINEER OR THE CITY OF CRAIG.
12) THE WATER LINE DESIGN IS BASED ON HDPE PIPE WITH AN ALLOWABLE BENDING RADIUS = 10-D. THE CONTRACTOR SHALL SUBMIT ALIGNMENT SHOP DRAWINGS IF SELECTED HDPE PIPE MANUFACTURER'S ALLOWABLE BENDING RADIUS IS GREATER.
13) MAINTAIN 5' MINIMUM COVER ON WATER MAINS AND 5' MINIMUM COVER OVER SANITARY SEWER FORCE MAINS AND PRESSURE LATERALS.
14) SEWER PIPE ELEVATIONS ARE TO INVERT OF PIPE
15) SEWER PIPE SLOPES ARE CALCULATED FROM FACE OF MANHOLE
16) SUBMITTALS – THE CONTRACTOR SHALL SUBMIT DATA SHEETS FOR ALL CONSTRUCTION MATERIALS TO THE CRAIG PUBLIC WORKS DEPARTMENT AND OBTAIN WRITTEN APPROVAL FOR THE CONSTRUCTION MATERIALS PRIOR TO PURCHASING AND INSTALLING THEM. THE CONSTRUCTION MATERIALS INCLUDE BUT ARE NOT LIMITED TO ALL PIPE, FITTINGS, VALVES, CURB STOPS, CORPORATION STOPS, TAPPING SADDLES, MANHOLES, FRAMES & LIDS, CLEANOUTS, AND HYDRANTS.

LEGEND

FEATURE DESCRIPTION	EXISTING	PROPOSED
PROPERTY LINE		N/A
PROPERTY LINE (INFORMATIONAL)		N/A
CENTERLINE		
CONCRETE		
ASPHALT		
BUILDING LINE		
BUILDING OVERHANG		AS NOTED
EDGE OF ASPHALT/CONCRETE		(PATCH)
EDGE OF GRAVEL		N/A
TOP/TOE/DITCH (GENERAL)		
OVERHEAD UTILITY LINE	XOH XOH XOH XOH	N/A
UNDERGROUDN UTILITY LINE	UGP UGP UGP UGP	N/A
STORM DRAIN	XSD XSD XSD XSD	SD SD SD SD
SEWER LINE	XSS XSS XSS XSS	SS SS SS SS
SEWER LINE (RECORD)	SS(R) SS(R)	N/A
SANITARY SEWER PRESSURE LINE	XFM XFM XFM	FM FM FM FM
SEWER SERVICE	N/A	S SERV S SERV S SERV
WATER LINE	XW XW XW XW	W W W W W
WATER SERVICE	N/A	W SERV W SERV W SERV
WATER LINE (RECORD)	W(R) W(R) W(R)	N/A
RAW SALTWATER LINE	SRAW SRAW	N/A
FUEL/GAS LINE	G G G G G	N/A
FENCE	X X X X X	O O O O
GUARD RAIL		N/A
MAJOR CONTOUR		
MINOR CONTOUR		
POSSIBLE UNKNOWN LINE DETECTED BY GPR	? ? ?	N/A

NOTE: LINE WEIGHTS VARY BETWEEN SHEETS

FEATURE DESCRIPTION	EXISTING	PROPOSED
UTILITY POLE		
GUY ANCHOR		N/A
CONTROL POINT (AS NOTED)		N/A
FOUND MONUMENT (AS NOTED)		N/A
STORM DRAIN MANHOLE	SD	SD
STORM CATCH BASIN		
STORM CLEANOUT	CO	CO
SANITARY SEWER MANHOLE	S	S
SANITARY SEWER CLEANOUT	CO	CO
BOLLARD/POST (TYPE AS NOTED)		
WATER VALVE	WV	
FIRE HYDRANT		
LIGHT POLE		N/A
ELECTRICAL METER	EM	N/A
SIGN		N/A
TEST PIT	TP	N/A
ROCK WALL		

Date	No.	Description	By
Revision			

Designed: TSS | Approved: | Scale: AS_NOTED
Drawn: TSS | Date: 2/8/2024 | Project: 222321.02
Checked: TSS | DO NOT SCALE FROM THESE PLANS - USE DIMENSIONS ONLY

R&M ENGINEERING-KETCHIKAN, INC.
7180 REVILLA ROAD, SUITE 300
KETCHIKAN, ALASKA 99901 AELC 576

Client: TLINGIT HAIDA REGIONAL HOUSING AUTHORITY
5446 JENKINS DRIVE
JUNEAU, AK 99801

Project: CRAIG TRACT 18 SENIOR CENTER

Sheet Description: LEGEND

Sheet No. C002

STATE OF ALASKA 49th
TREVOR SANDE
CE 9778
2/12/24
REGISTERED PROFESSIONAL ENGINEER

SCALE 1"=20'

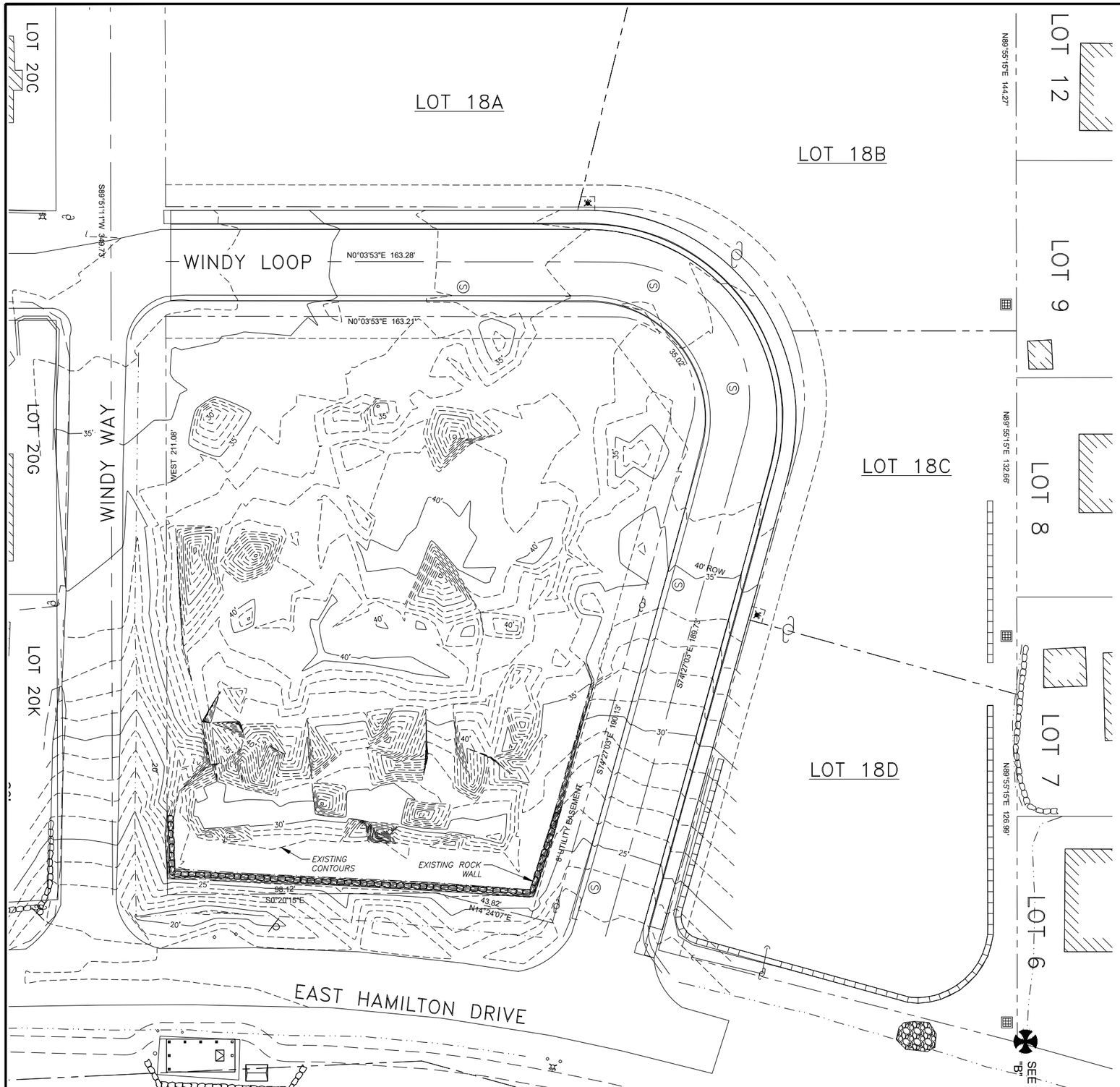
THIS DRAWING MAY BE REDUCED, VERIFY SCALE BEFORE USING

0 10 20 40 60 80 FEET

0 5 10 15 20 25 METERS

1 METER = 3.2808333 U.S. SURVEY FEET

1 U.S. ACRE = 0.4047 HECTARES



Date	No.	Description	By
		Revision	

Designed: TSS | Approved: | Scale: AS_NOTED

Drawn: TSS | Date: 2/8/2024 | Project: 222321.02

Checked: TSS | DO NOT SCALE FROM THESE PLANS – USE DIMENSIONS ONLY

R&M ENGINEERING-KETCHIKAN, INC.
7180 REVILLA ROAD, SUITE 300
KETCHIKAN, ALASKA 99901 AELC 576

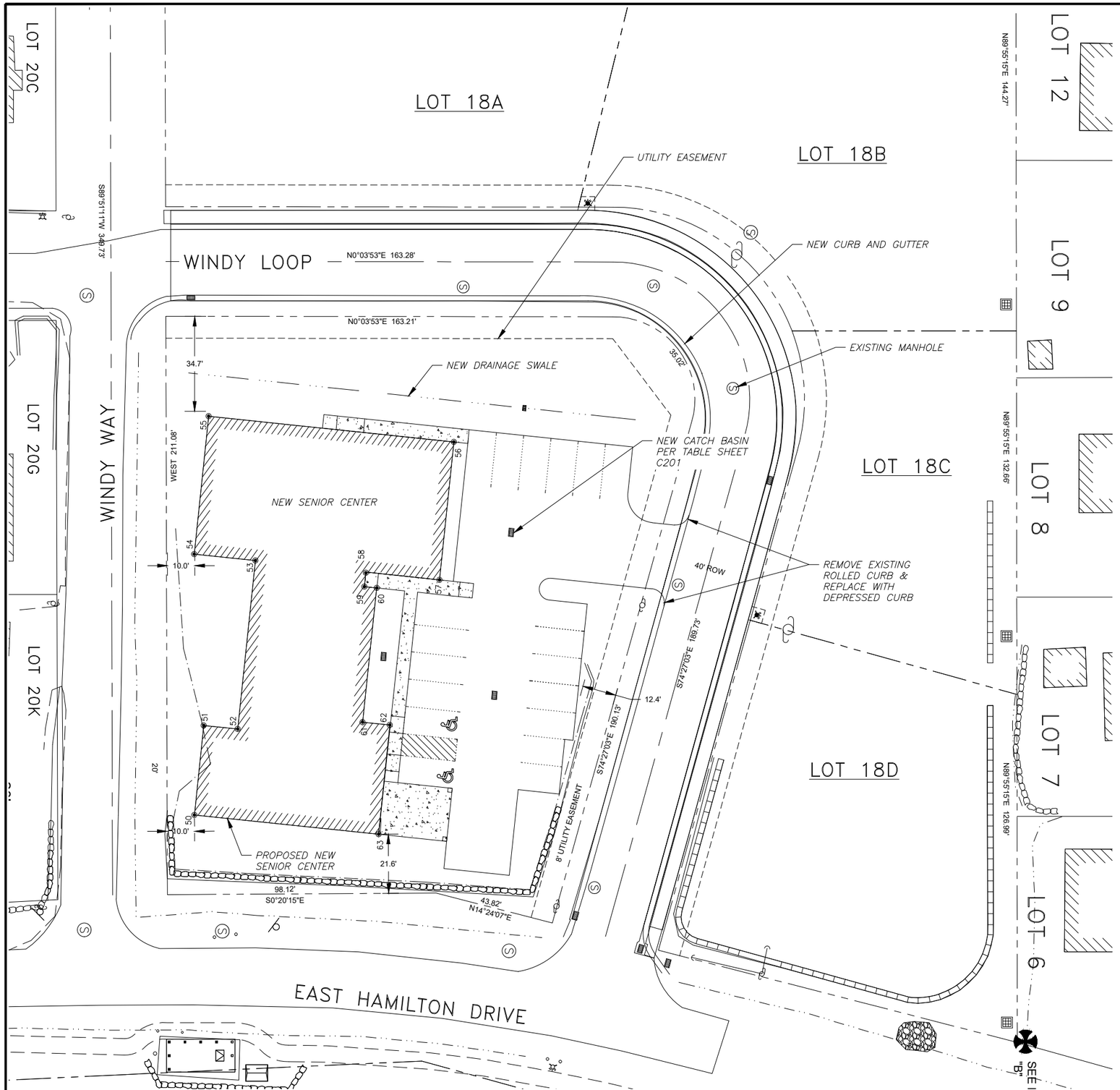
Client: TLINGIT HAIDA REGIONAL HOUSING AUTHORITY
5446 JENKINS DRIVE
JUNEAU, AK 99801

Project: CRAIG TRACT 18 SENIOR CENTER

Sheet Description: EXISTING CONDITIONS

Sheet No. C100

STATE OF ALASKA
49th
TREVOR SANDE
CE 9778
2/12/24
REGISTERED PROFESSIONAL ENGINEER



SCALE 1"=20'

THIS DRAWING MAY BE REDUCED, VERIFY SCALE BEFORE USING

0 10 20 40 60 80 FEET

0 5 10 15 20 25 METERS

1 METER = 3.2808333 U.S. SURVEY FEET

1 U.S. ACRE = 0.4047 HECTARES

BUILDING LAYOUT TABLE

Point #	Northing	Easting	Elevation	Description
50	49382.17	11902.29	35.93	BUILDING CORNER
51	49385.59	11869.63	35.93	BUILDING LAYOUT
52	49398.02	11870.93	35.93	BUILDING LAYOUT
53	49404.46	11809.44	35.93	BUILDING LAYOUT
54	49382.10	11807.10	35.93	BUILDING LAYOUT
55	49387.36	11756.79	35.93	BUILDING LAYOUT
56	49476.94	11766.17	35.93	BUILDING LAYOUT
57	49471.67	11816.47	35.93	BUILDING LAYOUT
58	49444.79	11813.93	35.93	BUILDING LAYOUT
59	49444.26	11818.94	35.93	BUILDING LAYOUT
60	49448.82	11819.45	35.93	BUILDING LAYOUT
61	49443.61	11868.42	35.93	BUILDING LAYOUT
62	49453.56	11869.46	35.93	BUILDING LAYOUT
63	49449.47	11909.29	35.93	BUILDING LAYOUT

Date	No.	Description	By
		Revision	

Designed: TSS | Approved: | Scale: AS_NOTED
Drawn: TSS | Date: 2/8/2024 | Project: 222321.02
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R&M ENGINEERING–KETCHIKAN, INC.
7180 REVILLA ROAD, SUITE 300
KETCHIKAN, ALASKA 99901 AELC 576

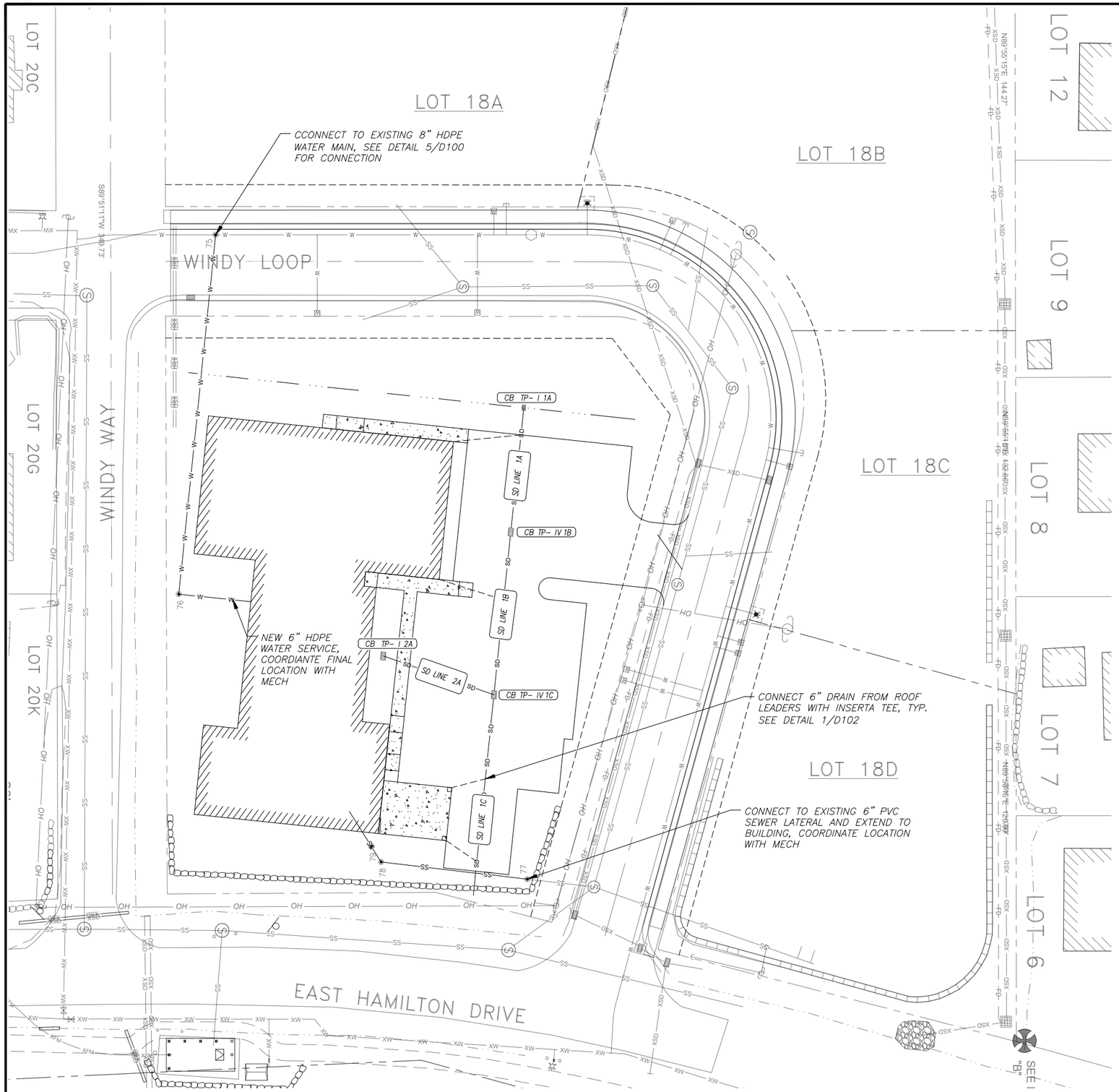
Client: TLINGIT HAIDA REGIONAL HOUSING AUTHORITY
5446 JENKINS DRIVE
JUNEAU, AK 99801

Project: CRAIG TRACT 18 SENIOR CENTER

Sheet Description: SITE PLAN

Sheet No. C200

STATE OF ALASKA
49th
TREVOR SANDE
CE 9778
2/12/24
REGISTERED PROFESSIONAL ENGINEER



SCALE 1"=20'

THIS DRAWING MAY BE REDUCED, VERIFY SCALE BEFORE USING

0 10 20 40 60 80 FEET

0 5 10 15 20 25 METERS

1 METER = 3.2808333 U.S. SURVEY FEET

1 U.S. ACRE = 0.4047 HECTARES

TRUE NORTH

MAGNETIC NORTH NOAA CALCULATOR MAR 2017

18.1°

STORM DRAIN TABLE

	CONNECT TO EXISTING CB IE = MATCH EXISTING
SD LINE 1A INSTALL: 44 LF 8" CPP S=0.01±	CB TP- I 1A INSTALL TYPE IV CB RIM=34.5 IE =33.5
SD LINE 1B INSTALL: 57 LF 12" CPP S=0.01±	CB TP- IV 1B INSTALL TYPE IV CB RIM=34.5 IE =32.9
SD LINE 2A INSTALL: 43 LF 12" CPP S=0.01±	CB TP- IV 1C INSTALL TYPE IV CB RIM=34.5 IE =32
SD LINE 1C INSTALL: 73 LF 8" CPP S=0.08±	CB TP- I 2A INSTALL TYPE IV CB RIM=35.0 IE =33.9

UTILITY LAYOUT TABLE

Point #	Northing	Easting	Elevation	Description
75	49390.00	11690.64	29.50	CONNECT TO EXISTING
76	49376.54	11821.88	0.00	6" DIA. 90° BEND
77	49503.89	11925.97	0.00	CONNECT TO EXISTING
78	49450.48	11919.68	0.00	45° BEND
79	49446.93	11914.05	0.00	CLEANOUT 5' FROM BUILDING WALL

Date	No.	Description	By
		Revision	

Designed: TSS | Approved: | Scale: AS_NOTED
Drawn: TSS | Date: 2/8/2024 | Project: 222321.02
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R&M ENGINEERING-KETCHIKAN, INC.
7180 REVILLA ROAD, SUITE 300
KETCHIKAN, ALASKA 99901 AELC 576

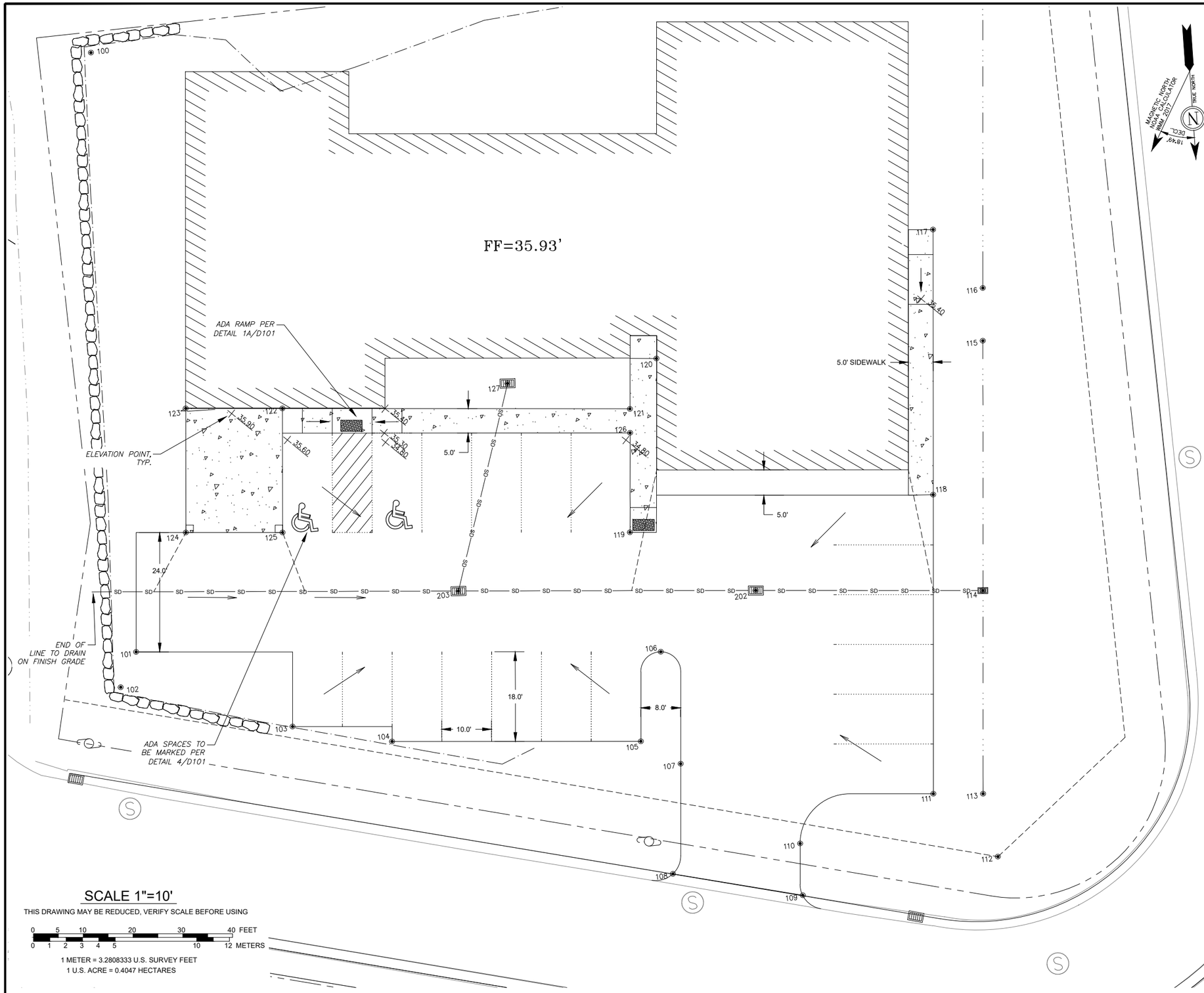
Client: TLINGIT HAIDA REGIONAL HOUSING AUTHORITY
5446 JENKINS DRIVE
JUNEAU, AK 99801

Project: CRAIG TRACT 18 SENIOR CENTER

Sheet Description: UTILITY PLAN

Sheet No. C201

STATE OF ALASKA 49th TREVOR SANDE CE 9778 2/12/24 REGISTERED PROFESSIONAL ENGINEER



POINT GRADING TABLE

Point #	Northing	Easting	Elevation	Description
100	49376.40	11920.78	35.00	GRADE
101	49497.11	11924.33	35.50	PARKING
102	49503.83	11928.16	35.00	GRADE
103	49515.30	11894.63	35.50	PARKING
104	49520.37	11875.05	35.50	PARKING
105	49525.57	11825.32	35.50	PARKING
106	49508.09	11819.47	35.00	PARKING
107	49530.89	11817.83	35.50	PARKING
108	49552.74	11821.69	34.55	DRIVEWAY
109	49559.75	11796.20	36.08	DRIVEWAY
110	49549.35	11795.63	36.00	DRIVEWAY
111	49542.19	11767.97	36.20	PARKING
112	49556.12	11756.37	*MATCH*	GRADE
113	49543.23	11758.02	35.50	GRADE
114	49502.63	11753.79	34.50	CATCH BASIN
115	49452.69	11748.55	35.00	DRAINAGE
116	49442.16	11747.45	35.00	DRAINAGE
117	49429.44	11756.17	35.90	TOP OF CURB
118	49482.43	11761.72	35.40	TOP OF CURB
119	49483.58	11823.10	34.70	TOP OF CURB
120	49449.39	11814.16	35.90	TOP OF CURB
121	49458.90	11820.53	35.40	TOP OF CURB
122	49451.53	11889.96	35.70	TOP OF CURB
123	49449.47	11909.29	0.00	TOP OF CURB
124	49474.28	11911.89	0.00	TOP OF CURB
125	49476.31	11892.56	35.20	TOP OF CURB
126	49463.69	11821.00	35.30	TOP OF CURB

SCALE 1"=10'

THIS DRAWING MAY BE REDUCED, VERIFY SCALE BEFORE USING

0 5 10 20 30 40 FEET
0 1 2 3 4 5 10 12 METERS

1 METER = 3.2808333 U.S. SURVEY FEET
1 U.S. ACRE = 0.4047 HECTARES

Date	No.	Description	By
		Revision	

Designed:	TSS
Drawn:	TSS
Checked:	TSS
Approved:	
Date:	2/8/2024
Scale:	AS_NOTED
Project:	222321.02

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R&M ENGINEERING-KETCHIKAN, INC.
7180 REVILLA ROAD, SUITE 300
KETCHIKAN, ALASKA 99901 AELC 576

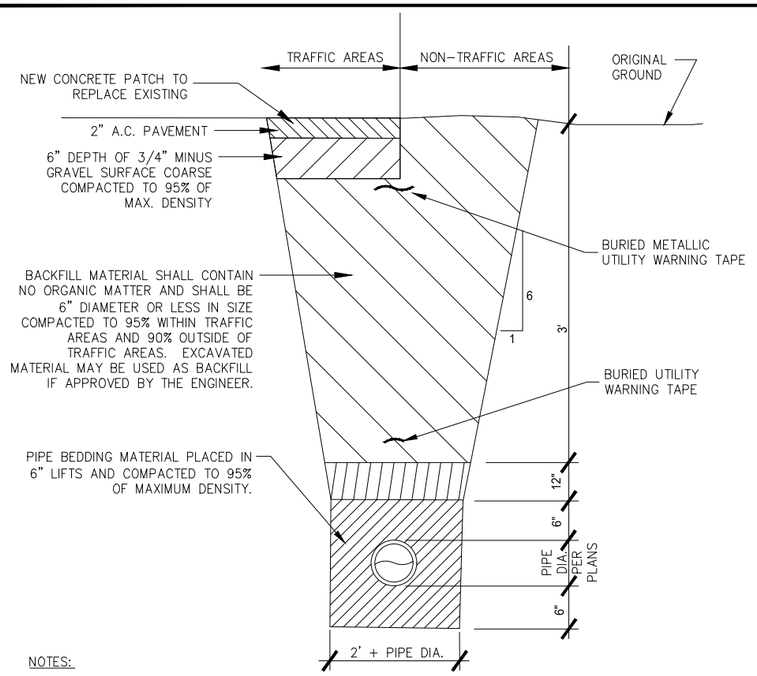
Client: TLINGIT HAIDA REGIONAL HOUSING AUTHORITY
5446 JENKINS DRIVE
JUNEAU, AK 99801

Project: CRAIG TRACT 18 SENIOR CENTER

Sheet Description: LAYOUT

Sheet No. C202

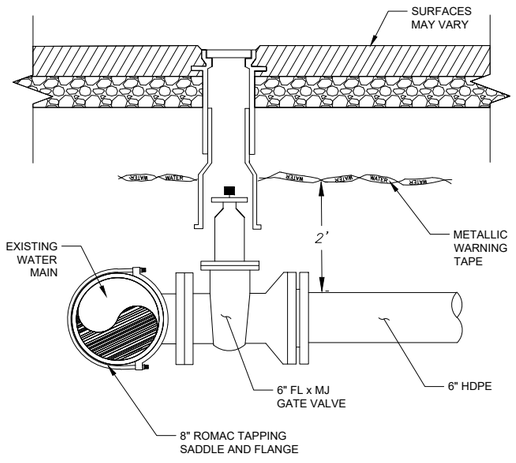
STATE OF ALASKA
49th
TREVOR SANDE
CE 9778
2/12/24
REGISTERED PROFESSIONAL ENGINEER



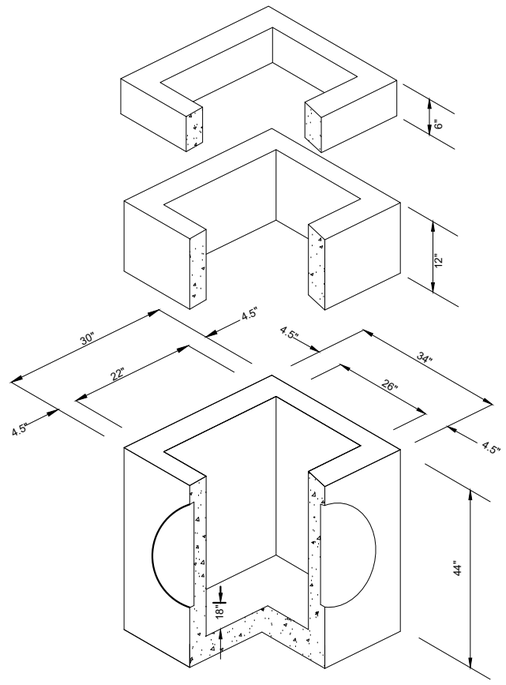
NOTES:

1. BACKFILL MATERIAL SHALL BE PLACED IN 8" MAXIMUM LIFTS.
2. TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH LOCAL, STATE, AND OSHA REGULATIONS AND REQUIREMENTS.
3. INDICATED SLOPE IS FOR PAY QUANTITY DETERMINATION ONLY FOR IMPORTED BACKFILL GRAVEL AND RESURFACING REQUIREMENTS.
4. IF UNSUITABLE PIPE FOUNDATION MATERIAL IS ENCOUNTERED DURING EXCAVATION, ENGINEER MAY DIRECT THE CONTRACTOR TO OVER-EXCAVATE AND BACKFILL WITH SUITABLE MATERIAL.
5. THE DITCH LINE, IF ONE EXISTS, SHALL BE RESHAPED IN SUCH A MANNER TO ALLOW POSITIVE DRAINAGE TO MATCH PRE-CONSTRUCTION CONDITIONS.

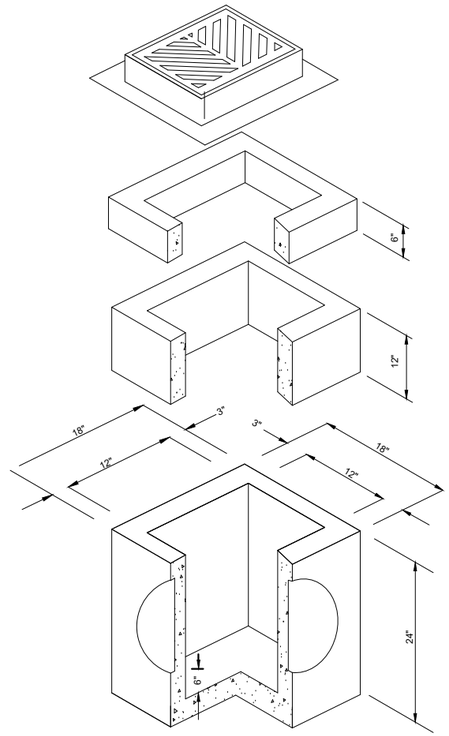
1 / D100 TYPICAL TRENCH DETAIL
NOT TO SCALE



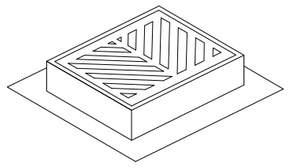
5 / D100 WATER MAIN CONNECTION
NOT TO SCALE



2 / D100 TYPE II CATCH BASIN DETAIL
NOT TO SCALE



3 / D100 TYPE I AREA DRAIN DETAIL
NOT TO SCALE



NOTES:

1) CATCH BASINS SCHEDULED TO HAVE FIELD INLETS SHALL HAVE OLYMPIC FOUNDRY 18"x22"x4" REVERSIBLE, PART NO. SM60 OR EQUAL.
2) CATCH BASINS SCHEDULED TO HAVE CURB INLETS SHALL HAVE NEENAH FOUNDRY TYPE R-3501-N INLET FOR ROLL TYPE CURB OR EQUAL.

4 / D100 FIELD INLET DETAIL
NOT TO SCALE

Date	No.	Description	By
		Revision	

Designed: TSS	Approved:	Scale: AS_NOTED
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R&M ENGINEERING-KETCHIKAN, INC.
7180 REVILLA ROAD, SUITE 300
KETCHIKAN, ALASKA 99901 AELC 576

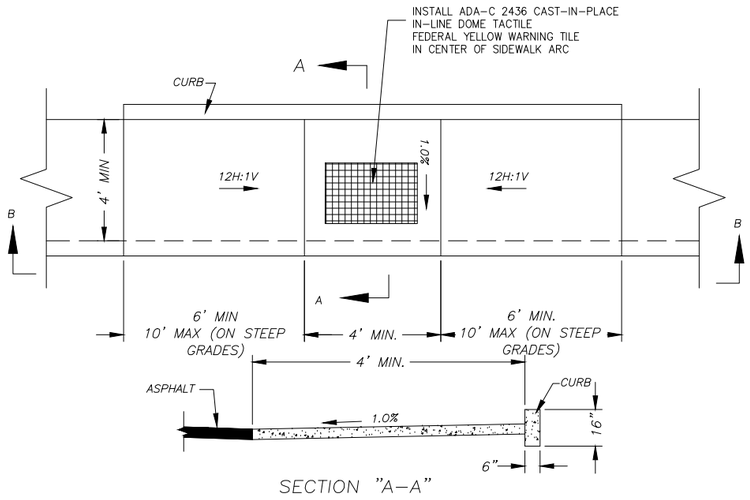
Client: TLINGIT HAIDA REGIONAL HOUSING AUTHORITY
5446 JENKINS DRIVE
JUNEAU, AK 99801

Project: CRAIG TRACT 18 SENIOR CENTER

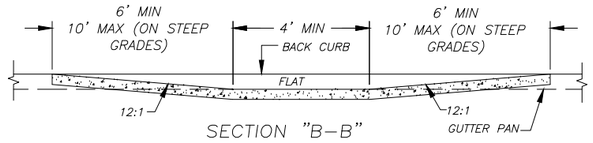
Sheet Description: DETAILS

Sheet No. D100

STATE OF ALASKA 49th TREVOR SANDE CE 9778 2/12/24 REGISTERED PROFESSIONAL ENGINEER

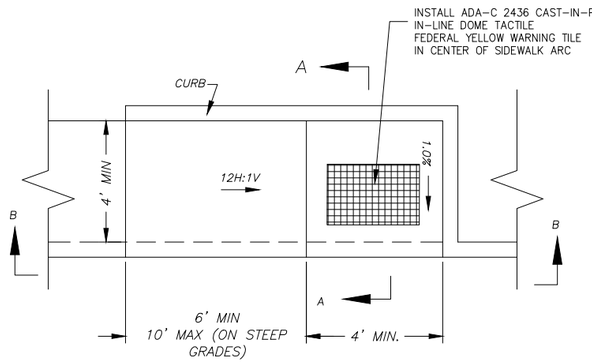


SECTION "A-A"



SECTION "B-B"

1A D101 STANDARD ADA RAMP DETAIL
NOT TO SCALE



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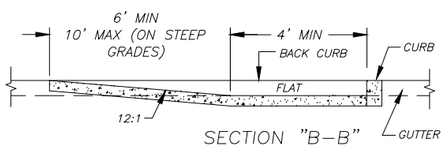
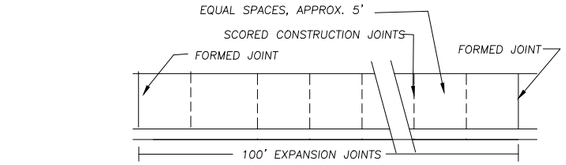
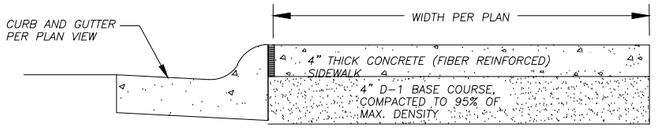


SECTION "B-B"

1B D101 HALF ADA RAMP DETAIL
NOT TO SCALE

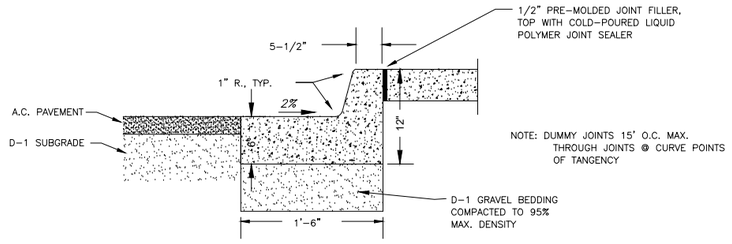


NOTE: LOCATE 1/4" X 3-1/4" PRE-MOLDED FILLER THROUGH THE SIDEWALK AT JOINTS. THIS LENGTH SHALL BE DIVIDED INTO EQUAL SPACES BY SAWED OR FORMED CONTRACTION JOINTS 1" DEEP. ALL JOINTS SHALL BE SEALED WITH JOINT SEALING COMPOUND.

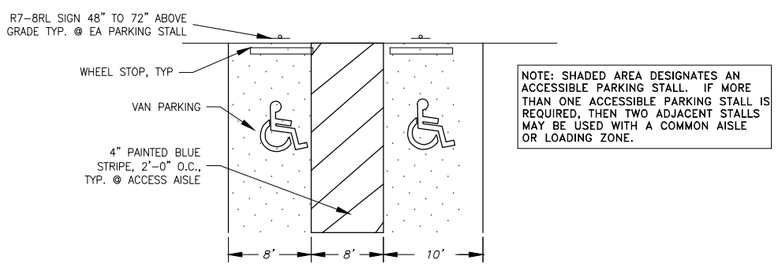


NOTES:
1) DUMMY JOINTS 15' O.C. MAX. THROUGH JOINTS CURVE POINTS OF TANGENCY

2 D101 SIDEWALK SECTION & DETAIL
NOT TO SCALE



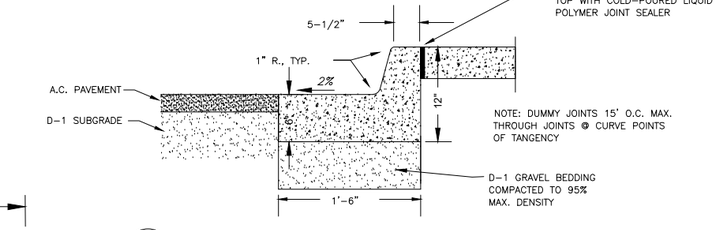
3 D101 STANDARD CURB AND GUTTER
NOT TO SCALE



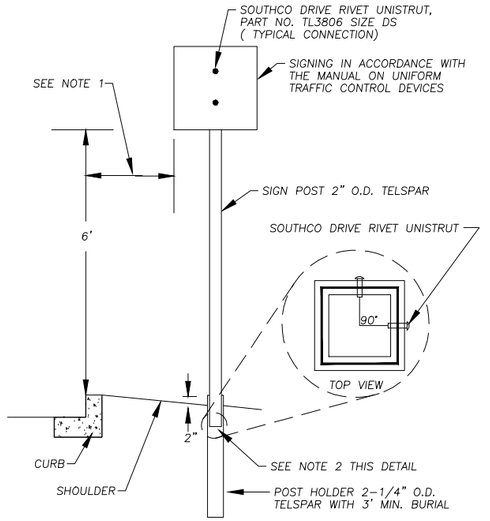
NOTE: SHADED AREA DESIGNATES AN ACCESSIBLE PARKING STALL. IF MORE THAN ONE ACCESSIBLE PARKING STALL IS REQUIRED, THEN TWO ADJACENT STALLS MAY BE USED WITH A COMMON AISLE OR LOADING ZONE.

1. ONE STALL TO BE VAN ACCESSIBLE PER ANSI 117.1, 2009 EDITION, SECTION 502. SPACES THAT ARE VAN ACCESSIBLE SHALL HAVE AN ADDITIONAL SIGN "VAN ACCESSIBLE" MOUNTED BELOW THE SYMBOL OF ACCESSIBILITY. STALL WIDTH SHALL HAVE A MINIMUM WIDTH 132 INCHES AND SHALL BE ADJACENT A 60 INCH WIDE ACCESS AISLE.

4 D101 HANDICAP PARKING
NOT TO SCALE



4 D101 SHED CURB AND GUTTER
NOT TO SCALE



NOTES:
1) MAXIMUM & MINIMUM DIMENSIONS PER MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE, PER PART II SIGNS.
2) SIGN POST MUST BE INSERTED INTO HOLDER A MAXIMUM OF 12" AND A MINIMUM OF 6".
3) NUMBERS IN SCHEDULE REFER TO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES

SIGN SCHEDULE

SIGN	No.	DESCRIPTION
S1	R7-8RL	RESERVED PARKING
S2	R7-8	RESERVED PARKING "VAN ACCESSIBLE"
S3	R1-1	STOP
S4		AUTHORIZED PERSONNEL PARKING ONLY
S5	R7-9	NO PARKING LOADING ZONE
S6		

5 D101 SIGN DETAIL
NOT TO SCALE

Date	No.	Description	By
		Revision	

Designed: TSS | Approved: | Scale: AS_NOTED
Drawn: TSS | Date: 2/8/2024 | Project: 222321.02
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R&M ENGINEERING-KETCHIKAN, INC.
7180 REVILLA ROAD, SUITE 300
KETCHIKAN, ALASKA 99901 AELC 576

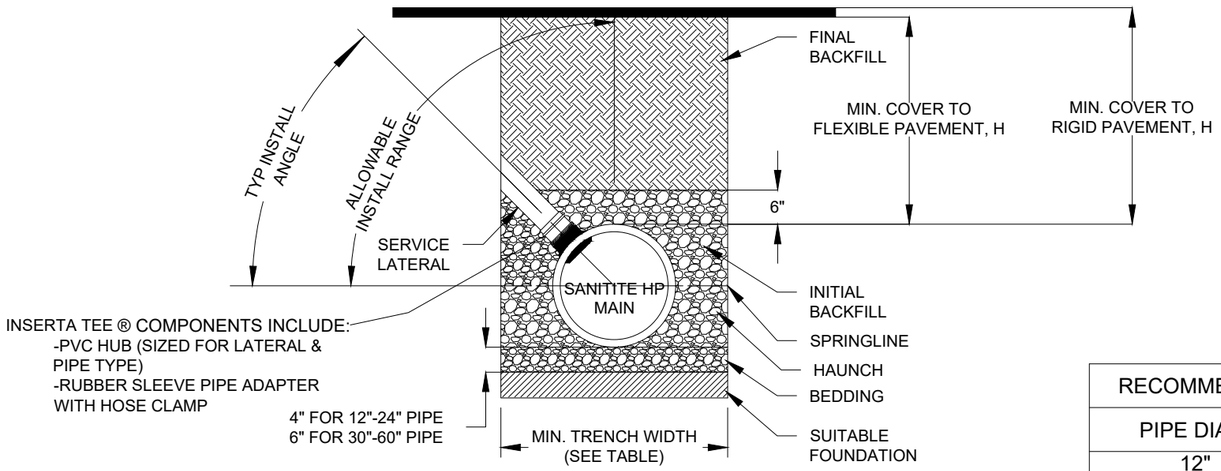
Client: TLINGIT HAIDA REGIONAL HOUSING AUTHORITY
5446 JENKINS DRIVE
JUNEAU, AK 99801

Project: CRAIG TRACT 18 SENIOR CENTER

Sheet Description: DETAILS

Sheet No. D101

STATE OF ALASKA 49th
TREVOR SANDE
CE 9778
2/12/24
REGISTERED PROFESSIONAL ENGINEER



RECOMMENDED MINIMUM TRENCH WIDTHS	
PIPE DIAM.	MIN. TRENCH WIDTH
12" (300mm)	30" (762mm)
15" (375mm)	34" (864mm)
18" (450mm)	39" (991mm)
24" (600mm)	48" (1219mm)
30" (750mm)	56" (1422mm)
36" (900mm)	64" (1626mm)
42" (1050mm)	72" (1829mm)
48" (1200mm)	80" (2032mm)
60" (1500mm)	96" (2438mm)

NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION

2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.

3. THE INSERTA TEE CONNECTION CAN BE INSTALLED UP TO A VERTICAL ORIENTATION, BUT A 45° INSTALL ANGLE IS MOST COMMON. GREATER ANGLES ARE SUBJECT TO DESIGN ENGINEER APPROVAL AND MAY REQUIRE PREMIUM BACKFILL.

4. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.

5. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-1500mm).

6. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.

7. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

1 / D102 INSERTA TEE CONNECTION DETAIL
NOT TO SCALE

Date	No.	Description	By
		Revision	

Designed: TSS | Approved: | Scale: AS_NOTED
Drawn: TSS | Date: 2/8/2024 | Project: 222321.02
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R&M ENGINEERING–KETCHIKAN, INC.
7180 REVILLA ROAD, SUITE 300
KETCHIKAN, ALASKA 99901 AELC 576

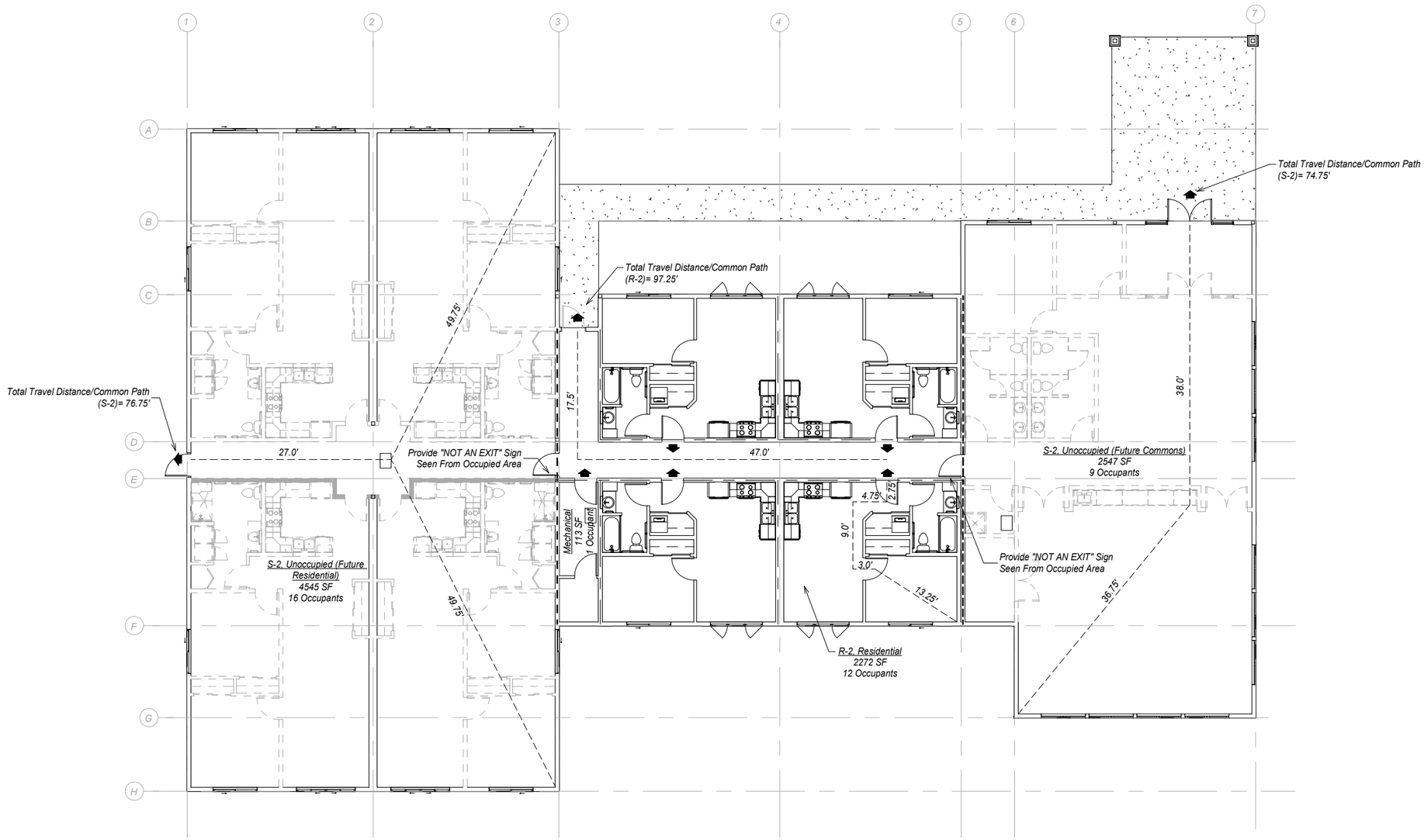
Client: TLINGIT HAIDA REGIONAL HOUSING AUTHORITY
5446 JENKINS DRIVE
JUNEAU, AK 99801

Project: CRAIG TRACT 18 SENIOR CENTER

Sheet Description: DETAILS

Sheet No. D102

STATE OF ALASKA 49th
TREVOR SANDE
CE 9778
2/12/24
REGISTERED PROFESSIONAL ENGINEER



1 Egress Plan

1/16" = 1'-0"

FIRE RATING LEGEND

- 1-Hr Rated Wall Construction
- 1/2 Hr Rated Wall Construction

REVISIONS:

THRHA - Craig Senior Center
PHASE 1

STATUS:

CONSTRUCTION DRAWINGS

DRAWN BY: NMG
CHECKED BY: NMG
DATE: 3.13.24
PROJECT #:222321.02

R&M

R&M ENGINEERING-KETCHIKAN, INC.
7180 REVILLA ROAD, SUITE 300
KETCHIKAN, ALASKA 99901
PH: 907.225.7917
www.ketchikanengineer.com

STATE OF ALASKA
49 TH
NYCOLE M. GIZINSKI
120569
3.13.24
REGISTERED PROFESSIONAL ARCHITECT

SHEET DESCRIPTION:
Egress Plan

A001

SHEET:
11 *of* **xx**

GENERAL NOTES

COMPLY WITH ALL PROVISIONS OF THE INTERNATIONAL CODES AS ADOPTED BY THE CITY OF CRAIG AND THE STATE OF ALASKA.

1. *ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES, INCLUDING THE LATEST ADOPTED EDITIONS OF THE IBC, IFC, IMC, IPC, IRC, UFC, UMC, UPC, NEC, AND ADA ACCESSIBILITY GUIDELINES.*
2. *THE ARCHITECTURAL DRAWINGS ARE A PART OF LARGER SET OF DRAWINGS WHICH, WHEN COMPLETE, CONSISTS OF ALL DRAWINGS LISTED BY THE INDEX OF DRAWINGS. THE WORD DESCRIBED BY THE DRAWINGS OF ANY ONE DISCIPLINE MAY BE AFFECTED BY THE WORK DESCRIBE ON DRAWINGS OF ANOTHER DISCIPLINE AND MAY REQUIRE REFERENCE TO THE DRAWINGS OF ANOTHER DISCIPLINE. PARTIAL SETS OF DRAWINGS ARE INCOMPLETE AND SHOULD NOT BE DISTRIBUTED OR UTILIZED BY THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW AND COORDINATE THE WORK OF ALL SUBCONTRACTORS, TRADES, AND SUPPLIERS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BEFORE COMMENCING CONSTRUCTION, AND TO ASSURE THAT ALL PARTIES ARE AWARE OF ALL REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS., WHICH MIGHT AFFECT THE WORK OF THAT PARTY.*
3. *CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND BUILDING DIMENSIONS PRIOR TO PROCEEDING WITH THE WORK. ANY VARIATION FROM THE CONDITIONS AND DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE REPORTED TO THE OWNER OR ARCHITECT FOR RESOLUTION PRIOR TO CONSTRUCTION.*
4. *CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.*
5. *WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DIMENSIONS ARE TO CENTERLINE OF COLUMNS OR TO FACE OF FRAMING, UNLESS OTHERWISE NOTED. DIMENSIONS NOTED AS "CLEAR" ARE TO FACE OF FINISH MATERIALS.*
6. *REFER TO THE STRUCTURAL, MECHANICAL, ELECTRICAL, CIVIL, LANDSCAPE AD PLUMBING DRAWINGS FOR THE DETAILED DESIGN OF STRUCTURAL, MECHANICAL, ELECTRICAL, CIVIL, LANDSCAPE AND PLUMBING SYSTEMS, OF WHICH PORTIONS MAY BE SHOWN ON THE ARCHITECTURAL DRAWINGS.*
7. *FINISH FLOOR ELEVATIONS ARE TO TOP OF CONCRETE FLOOR SLAB OR WOOD SUB-FLOOR, UNLESS OTHERWISE NOTED.*
8. *CEILING HEIGHT DIMENSIONS ARE TO FINISHED SURFACES, UNLESS OTHERWISE NOTED.*
9. *PROVIDE FIRE BLOCKING, DRAFT STOPS, AND FIRE STOPS PER IBC SECTION 717.*
10. *PROVIDE AN 2A 10BC FIRE EXTINGUISHER PER PLANS.*
11. *WINDOWS IN OCCUPIED, HEATED AREAS OF BUILDING TO BE DOUBLE PANE, INSULATED GLAZING.*
12. *SAFETY GLAZING: WIRED, TEMPERED, AND LAMINATED SAFETY GLASS MUST MEET UBC STANDARDS. GLAZING IN OR ADJACENT TO DOORS (12") AND GLAZING LESS THAN 18" ABOVE FLOOR, AND OTHER HAZARDOUS LOCATIONS PER UBC SEC. 2406.*
13. *MINIMUM INSULATION REQUIREMENTS IN OCCUPIED, HEATED AREAS OF BUILDING, UON:*

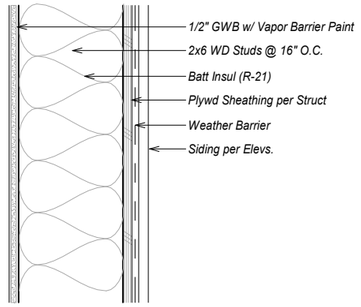
ROOF/CEILING	*R49*
EXT. WALLS	*R21*
FLOORS & SOFFITS	*R30*
HOT WATER PIPES	*1/2"*

ALLOW 2' MIN. AIR SPACE OVER INSULATION WHEN BATTS ARE USED BETWEEN RAFTERS & TRUSSES. SEAL ALL TEARS AND JOINTS WITH TAPE. ALL ROOF INSULATION APPLIED DIRECTLY TO EXTERIOR FRAMING MEMBERS SHALL BE PROVIDED WITH VAPOR BARRIER ON HEATED SIDE. ALL OPENINGS (DOORS, WINDOWS, ETC.) SHALL BE CAULKED, SEALED, OR WEATHERSTRIPPED.

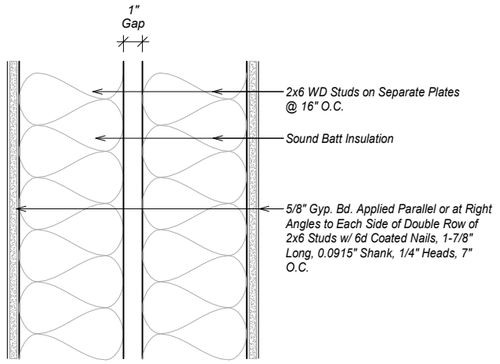
SCOPE OF WORK

CONSTRUCTION OF 9613 SF, SINGLE STORY FULLY SPRINKLED INDEPENDANT SENIOR LIVING FACILITY. THE BUILDING'S SHELL AND (4) 1 BEDROOM UNITS WILL BE BUILT AS PHASE 1. UNOCCUPIED SPACES ARE TO BE SPRINKLED AND ARE TREATED AS S-2 STORAGE. THERE IS A 1-HR SEPARATION BETWEEN THE OCCUPIED PHASE 1 AND FUTURE PHASES OF CONSTRUCTION.

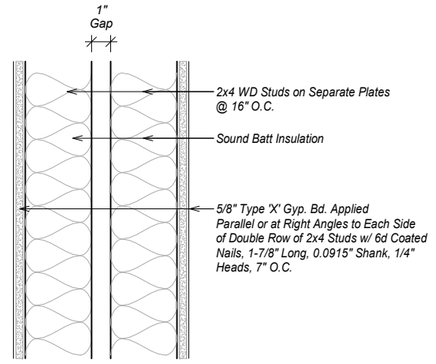
WALL TYPES



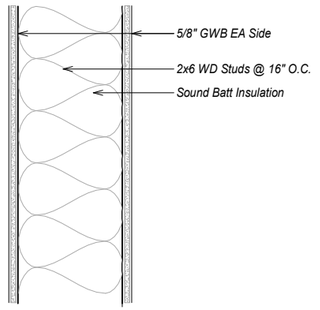
1 Exterior Wall



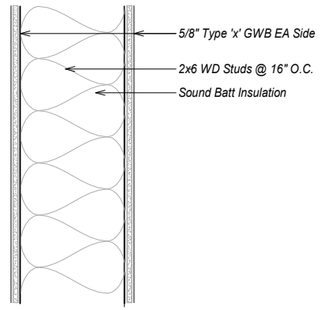
2 Typ. Interior Unit Separation Wall (2x6)
30 Min Rated, STC 50+



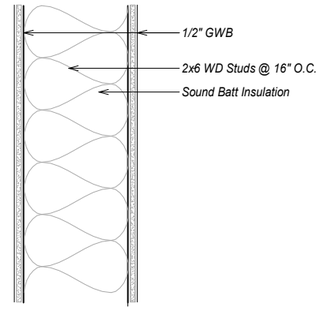
3 Interior Rated Double Wall (2x6)
1-hr Rated, STC 50+
Ga File No. WP 3370



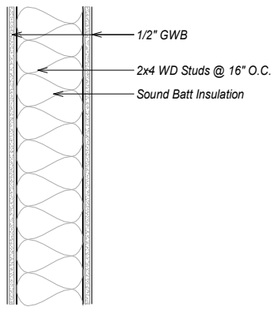
4 Typ. Corridor Wall (2x6) 30 Min-Rated



5 Typ. Interior Rated Wall (2x6) 1hr-Rated



6 Typ. Interior Sound Wall (2x6)



7 Typ. Interior Sound Wall (2x4)

REVISIONS:

THRHA - Craig Senior Center
PHASE 1

STATUS:
CONSTRUCTION DRAWINGS

DRAWN BY: NMG
CHECKED BY: NMG
DATE: 3.13.24
PROJECT #: 222321.02

R&M ENGINEERING-KETCHIKAN, INC.
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KETCHIKAN, ALASKA 99901
PH: 907.225.7917
www.ketchikanengineer.com

STATE OF ALASKA
49 TH
NYCOLE M. GIZINSKI
120569
3.13.24
REGISTERED PROFESSIONAL ARCHITECT

SHEET DESCRIPTION:
Notes & Wall Types

A002

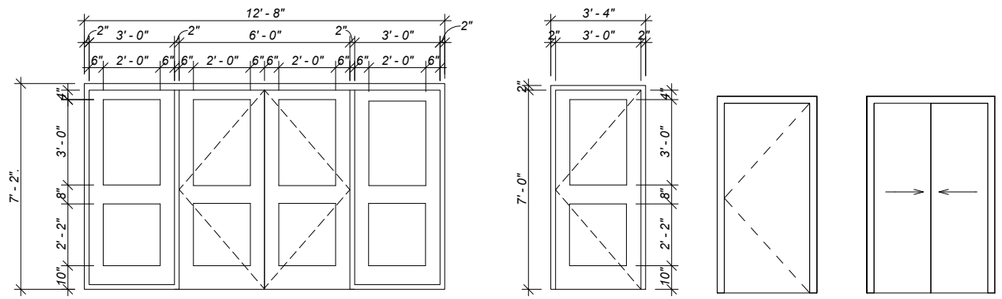
SHEET:
12 *of* **xx**

Door Schedule

Type Mark	Width	Height	Door Type	Operation	Thickness	Door Material	Frame Material	Fire Rating	Hardware	Description
1	6' - 0"	7' - 0"	A	Swing	1 3/4"	Steel	Steel			Exterior Insulated Door Pair w/ Sidelites
2	3' - 0"	7' - 0"	B	Swing	1 3/4"	Steel	Steel			Exterior Insulated Door w/ Relite
3	3' - 0"	6' - 8"	C	Swing	1 3/8"	HM	HM	60 Min.		Insulated Rated Door
4	3' - 0"	6' - 8"	C	Swing	1 3/8"	HM	HM	30 Min		Rated Door
5	3' - 0"	6' - 8"	C	Swing	1 3/8"	WD/SC				
6	5' - 0"	6' - 8"	D	Bi Pass	1 1/2"	WD/SC	Wood			Bi-Pass Door Pair
7	3' - 0"	6' - 8"	C	Swing	1 3/8"	HM	HM			

NOTE: ALL HARDWARE TO BE ADA COMPLIANT.

DOOR TYPES



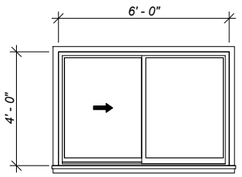
A

B

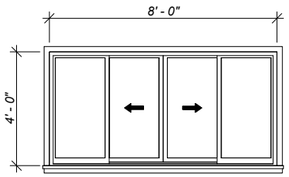
C

D

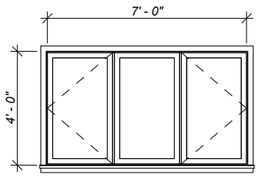
WINDOW TYPES



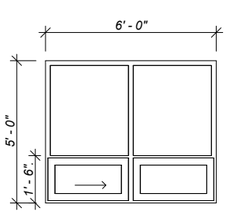
1
Glider
(Egress)



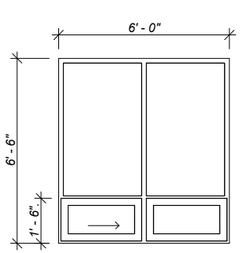
2
Glider



3
Fixed/Casement



4
Fixed/Glider



5
Fixed/Glider

REVISIONS:

THRHA - Craig Senior Center
PHASE 1

STATUS:
CONSTRUCTION DRAWINGS

DRAWN BY: NMG
CHECKED BY: NMG
DATE: 3.13.24
PROJECT #:222321.02

R&M ENGINEERING-KETCHIKAN, INC.
7180 REVILLA ROAD, SUITE 300
KETCHIKAN, ALASKA 99901
PH: 907.225.7917
www.ketchikanengineer.com

STATE OF ALASKA
49 TH
NYCOLE M. GIZINSKI
120569
3.13.24
REGISTERED PROFESSIONAL ARCHITECT

SHEET DESCRIPTION:
Schedules

A003

SHEET:
13 *of* **xx**

1 Site Plan
1" = 30'-0"

REVISIONS:

THRHA - Craig Senior Center
PHASE 1

STATUS:
CONSTRUCTION DRAWINGS

DRAWN BY: NMG
CHECKED BY: NMG
DATE: 3.13.24
PROJECT #: 222321.02

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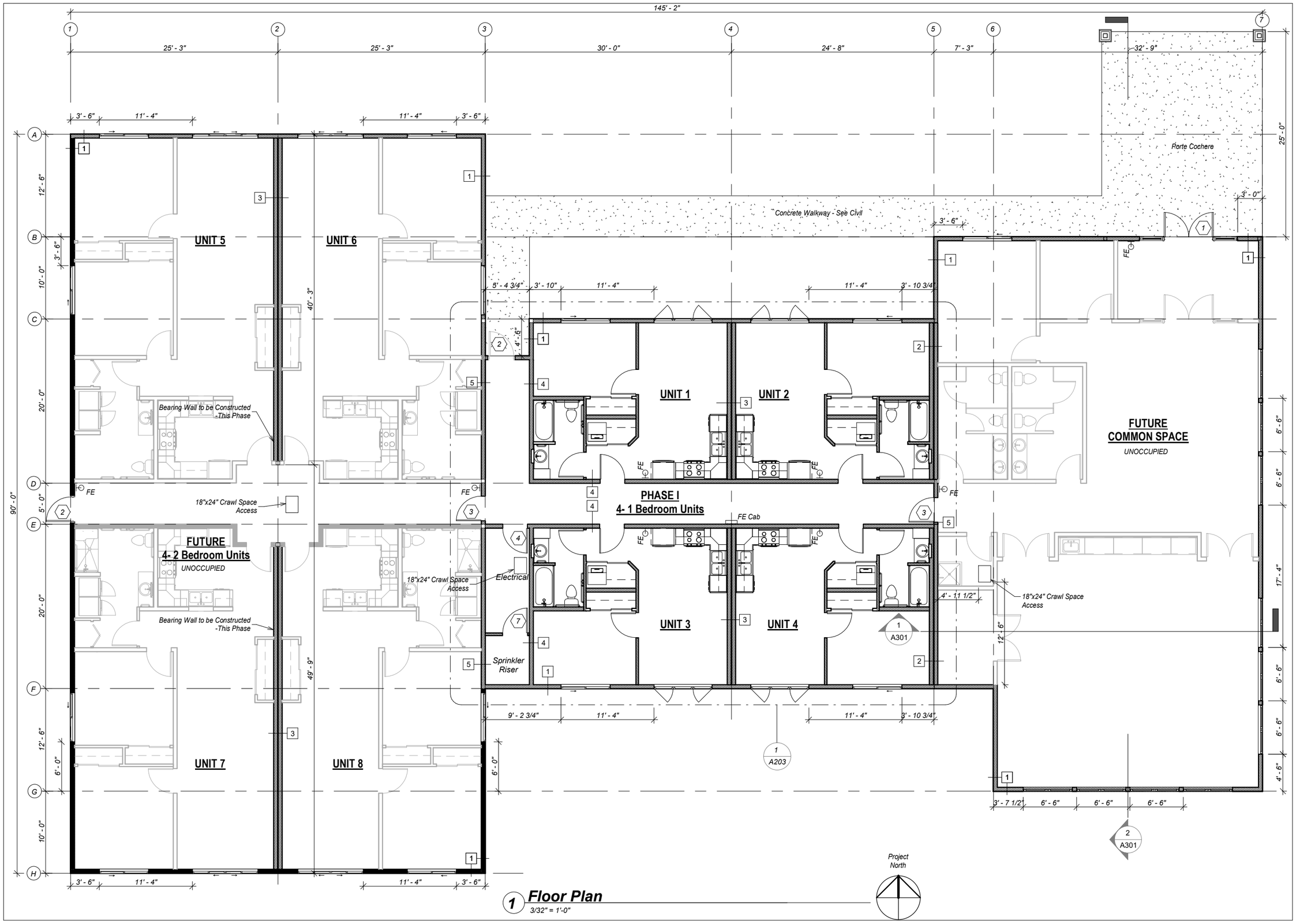
STATE OF ALASKA
49 TH
NYCOLE M. GIZINSKI
120569
3.13.24
REGISTERED PROFESSIONAL ARCHITECT

SHEET DESCRIPTION:
Site Plan

A100

SHEET:
14 of xx



1 Floor Plan
3/32" = 1'-0"

REVISIONS:
REV #1: FE, Crawl Space 3.11.24

THRHA - Craig Senior Center PHASE 1

STATUS:
CONSTRUCTION DRAWINGS

DRAWN BY: NMG
CHECKED BY: NMG
DATE: 3.13.24
PROJECT #: 222321.02

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STATE OF ALASKA
49 TH
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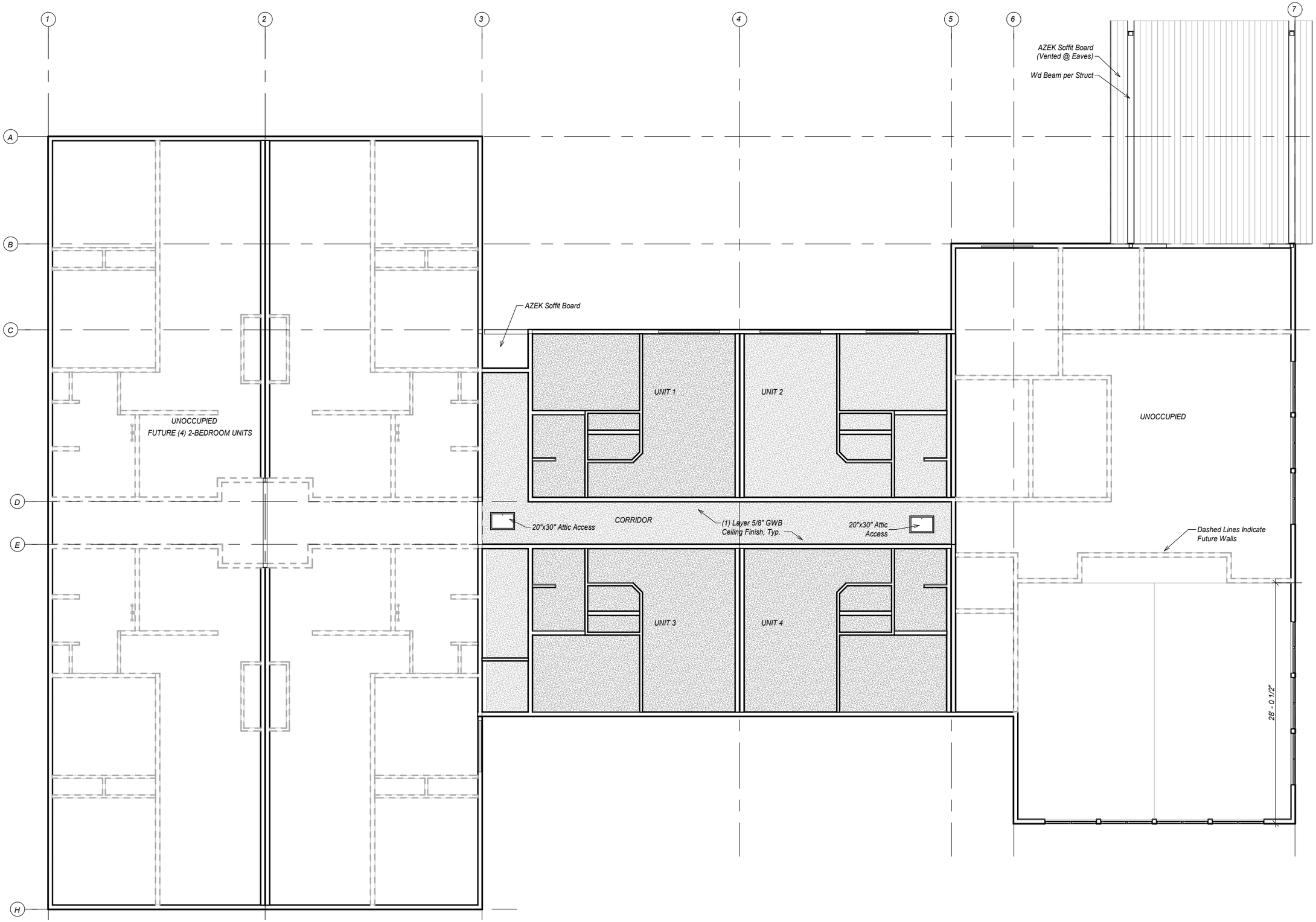
120569
3.13.24
REGISTERED PROFESSIONAL ARCHITECT

SHEET DESCRIPTION:
Main Floor Plan

A200

SHEET:
15 of xx



1 Reflected Ceiling Plan

3/32" = 1'-0"

REVISIONS:

THRHA - Craig Senior Center
PHASE 1

STATUS:

CONSTRUCTION DRAWINGS

DRAWN BY: NMG
CHECKED BY: NMG
DATE: 3.13.24
PROJECT #:222321.02

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STATE OF ALASKA
49 TH
NYCOLE M. GIZINSKI
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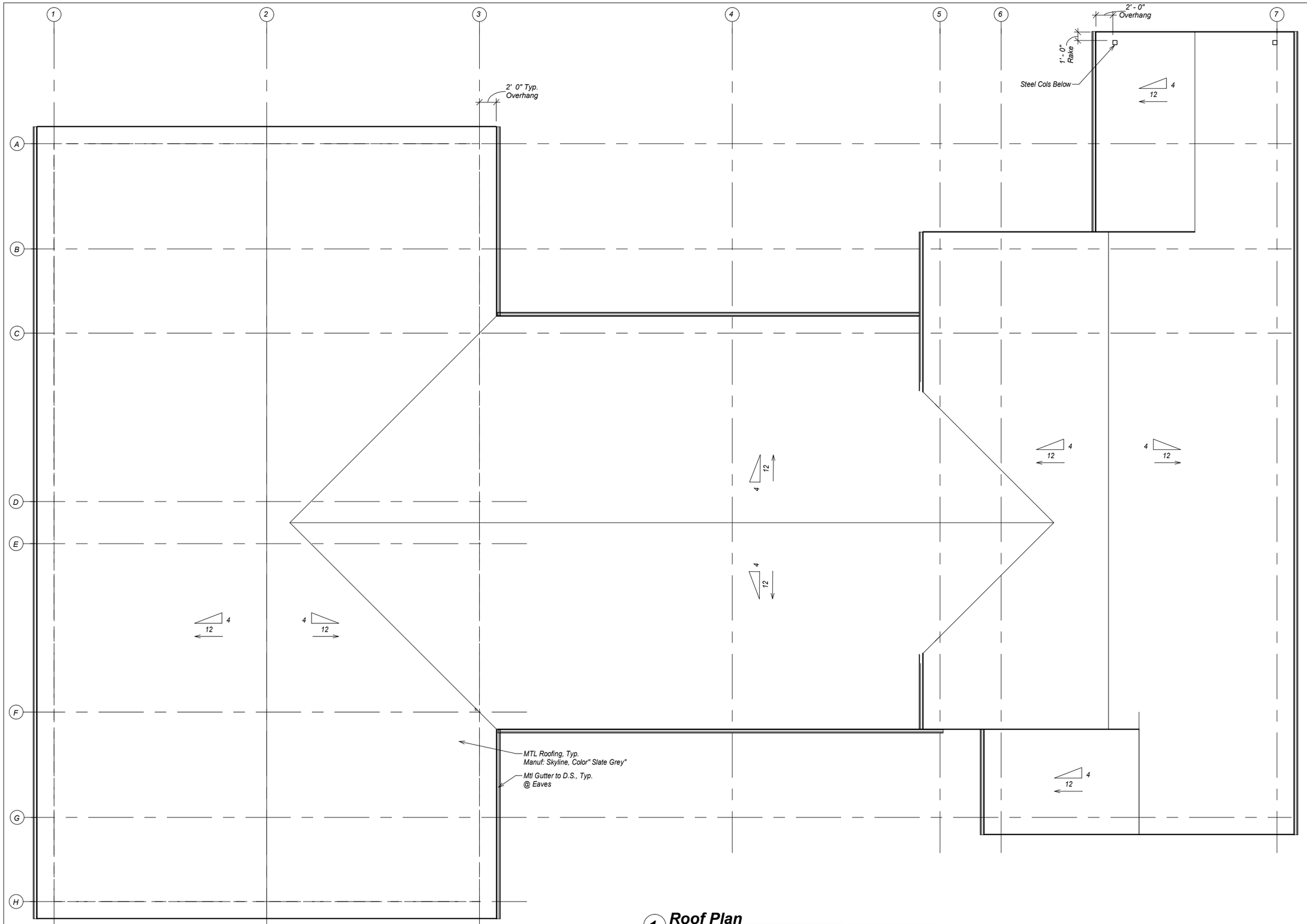
3.13.24
REGISTERED PROFESSIONAL ARCHITECT

SHEET DESCRIPTION:
Reflected Ceiling Plan

A201

SHEET:
16 *of* **xx**



1 Roof Plan

3/32" = 1'-0"

REVISIONS:

THRHA - Craig Senior Center
PHASE 1

STATUS:

CONSTRUCTION DRAWINGS

DRAWN BY: NMG
CHECKED BY: NMG
DATE: 3.13.24
PROJECT #:222321.02

R&M

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STATE OF ALASKA
49 TH
NYCOLE M. GIZINSKI
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3.13.24
REGISTERED PROFESSIONAL ARCHITECT

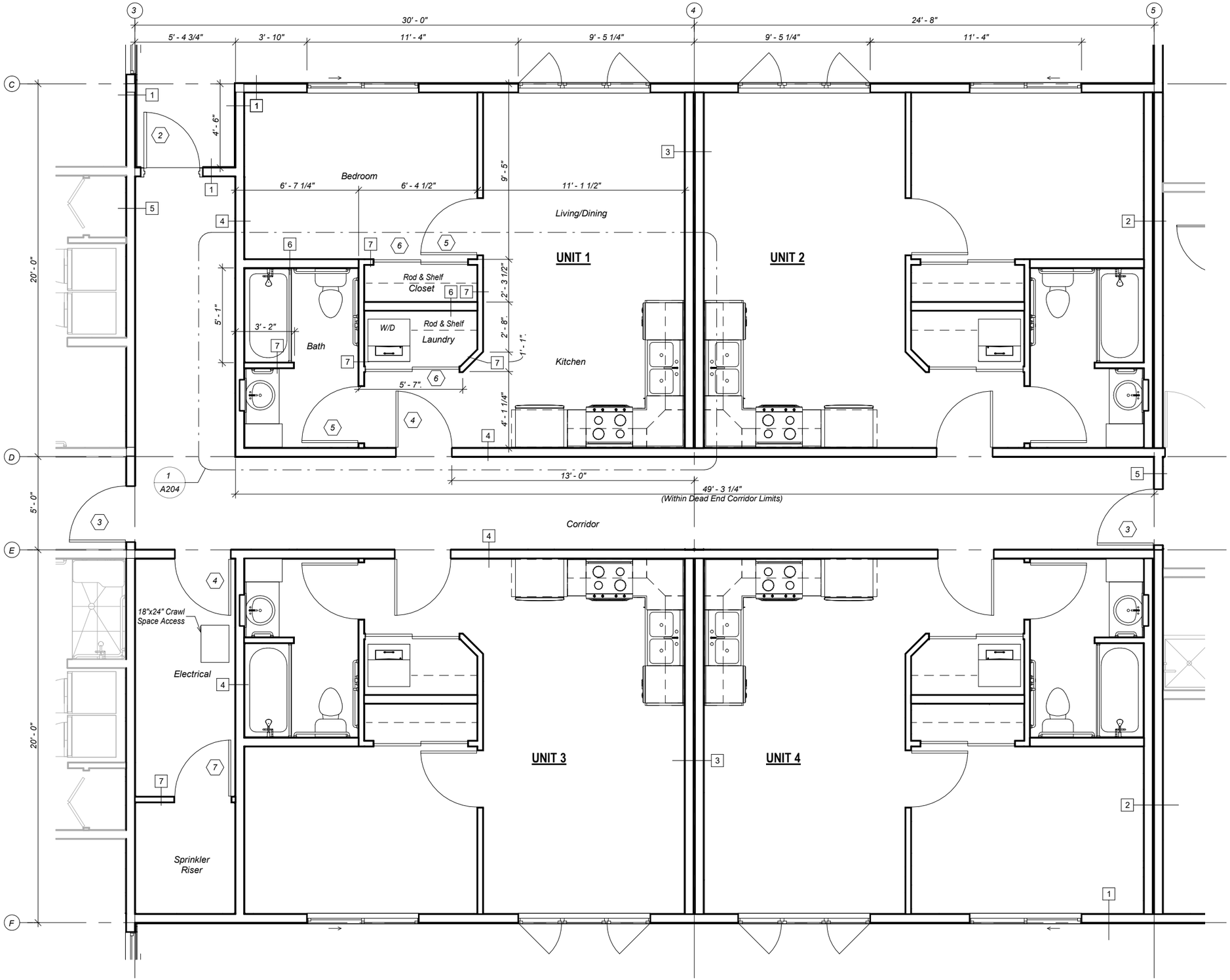
SHEET DESCRIPTION:

Roof Plan

A202

SHEET:

17 *of* **xx**



1 Partial Floor Plan - Phase 1

3/16" = 1'-0"

REVISIONS:

THRHA - Craig Senior Center
PHASE 1

STATUS:
CONSTRUCTION DRAWINGS

DRAWN BY: NMG
CHECKED BY: NMG
DATE: 3.13.24
PROJECT #:222321.02

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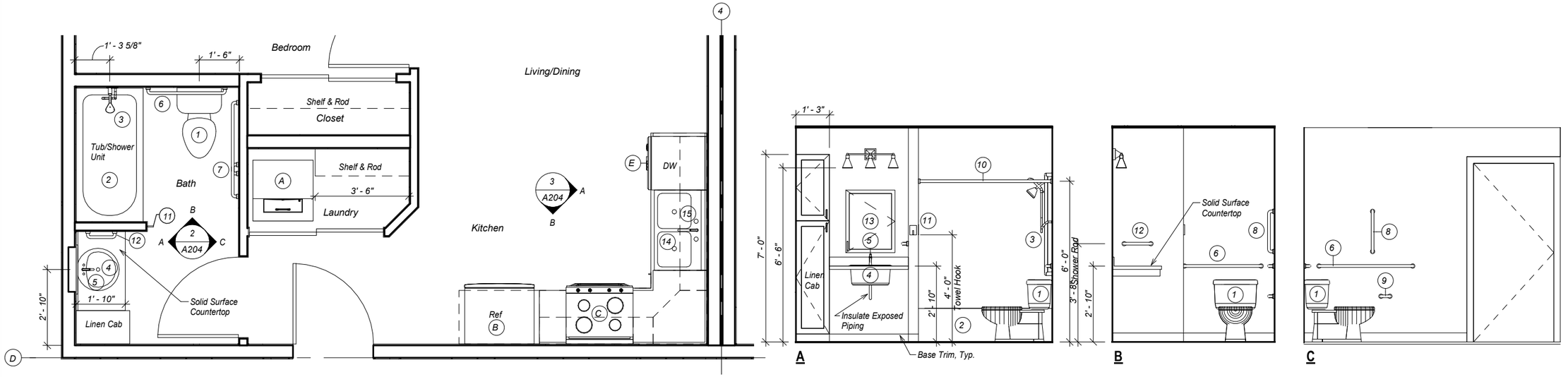
STATE OF ALASKA
49 TH
NYCOLE M. GIZINSKI
120569
3.13.24
REGISTERED PROFESSIONAL ARCHITECT

SHEET DESCRIPTION:
Partial Floor Plans

A203

SHEET:
18 of xx



A B C

1 Kitchen & Bath - Plan

1/4" = 1'-0"

2 Interior Elevations-Bath

1/4" = 1'-0"

A B

3 Interior Elevations-Kitchen

1/4" = 1'-0"

WATER CLOSET

LAVATORY

4 ADA Mounting Details.

1/4" = 1'-0"

Plumbing Fixture & Accessory Schedule

Type Mark	Description	Dimensions (WxDxH)	Manufacturer	Model	Remarks
1	Toilet, Insulated		Kohler	K-3999-U	
2	Tub	60"x30"x17-3/4"	American Standard	2973102.020	Include 5-Piece Bath Wall Set 2968BWT60
3	ADA Shower/Bath Faucet		American Standard	TU105508	
4	Lavatory		American Standard	0614.300	
5	Vanity Faucet		American Standard	7105857	
6	36" Grab Bar		Bobrick	5806x36	
7	42" Grab Bar		Bobrick	5806x42	
8	18" Grab Bar		Bobrick	5806x18	
9	Toilet Paper Holder		American Standard	7105230.002	
10	60" Shower Rod		Bobrick	B-6107x60	
11	Robe/Towel Hook		American Standard	7105210.002	
12	Towel Ring		American Standard	7105190	
13	Medicine Cabinet, Recessed	20"x26"x3-5/8"	Kohler	K-CB-CLW2026SS	
14	Kitchen Sink		Kohler	K-3145-4	
15	Kitchen Faucet		American Standard	4803300.002	

Appliance Schedule

Type Mark	Description	Dimensions (WxDxH)	Manufacturer	Model	Remarks
A	Stacked Washer/Dryer	23-7/8"x26-5/8"x74-1/4"	Whirlpool	WET4024HW	
B	Refrigerator	31-1/10"x27"x67-9/10"	GE	GBE17HYR	
C	30" Range, Electric	29 3/4"X36"X26 7/16"	GE	JS645SLSS	
D	Combo Microwave/Exhaust Hood	29 7/8"X15 1/4"X15 3/4"	GE	JVM3160RFSS	
E	Dishwasher	23 3/4"x23 1/2"x32 1/4"	GE	GDF460PSTSS	

REVISIONS:

THRHA - Craig Senior Center
PHASE 1

STATUS:
CONSTRUCTION DRAWINGS

DRAWN BY: NMG
CHECKED BY: NMG
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PROJECT #: 222321.02

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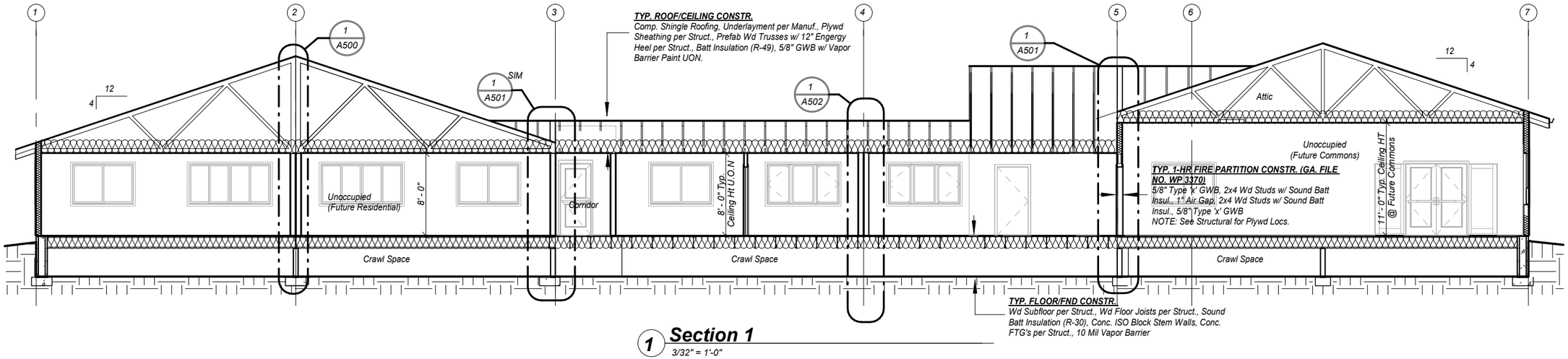
STATE OF ALASKA 49TH
NYCOLE M. GIZINSKI
120569
3.13.24
REGISTERED PROFESSIONAL ARCHITECT

SHEET DESCRIPTION:
Enlarged Plans & Interior Elevations

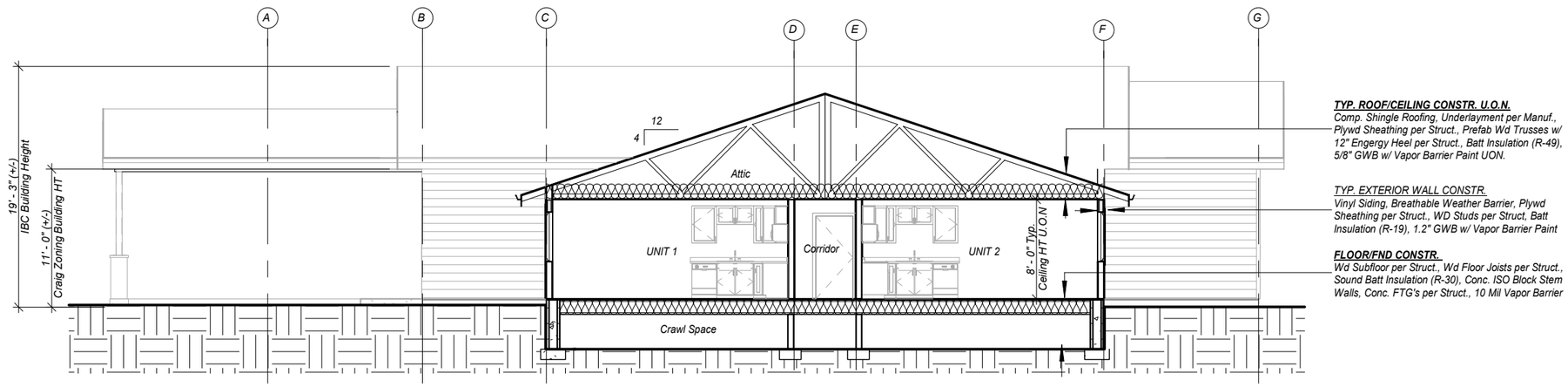
A204

SHEET:
19 of xx



1 Section 1

3/32" = 1'-0"



2 Section 2

3/32" = 1'-0"

REVISIONS:

THRHA - Craig Senior Center
PHASE 1

STATUS:
CONSTRUCTION DRAWINGS

DRAWN BY: NMG
CHECKED BY: NMG
DATE: 3.13.24
PROJECT #:222321.02

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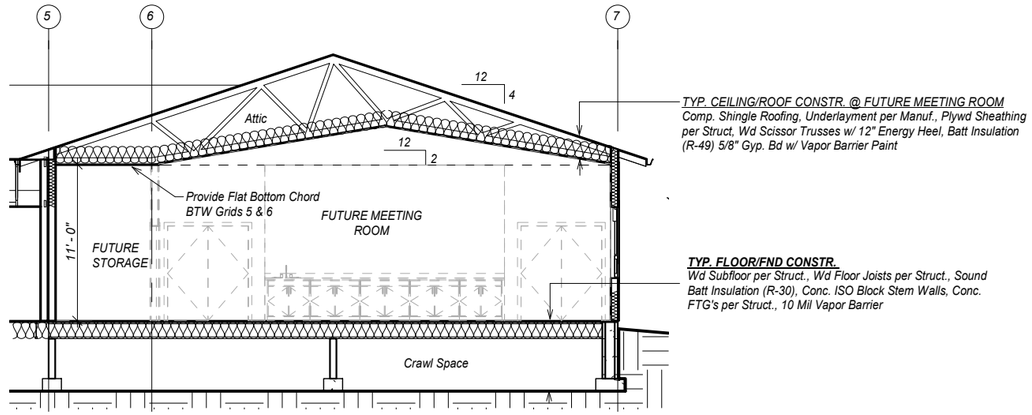
STATE OF ALASKA
49 TH
NYCOLE M. GIZINSKI
120569
3.13.24
REGISTERED PROFESSIONAL ARCHITECT

SHEET DESCRIPTION:
Sections

A300

SHEET:
20 *of* **xx**

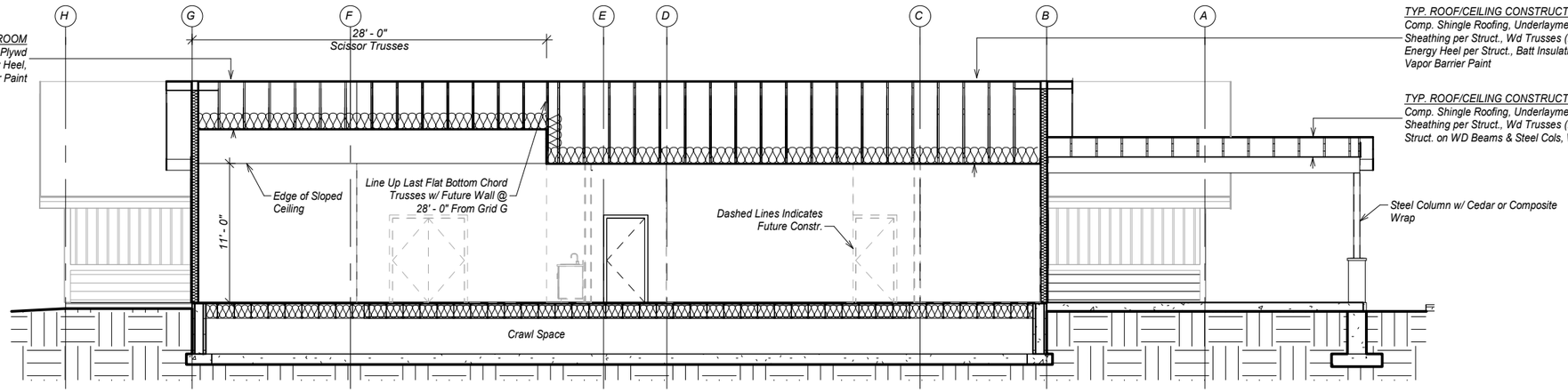


TYP. CEILING/ROOF CONSTR. @ FUTURE MEETING ROOM
Comp. Shingle Roofing, Underlayment per Manuf., Plywd Sheathing per Struct, Wd Scissor Trusses w/ 12" Energy Heel, Batt Insulation (R-49) 5/8" Gyp. Bd w/ Vapor Barrier Paint

TYP. FLOOR/FND CONSTR.
Wd Subfloor per Struct., Wd Floor Joists per Struct., Sound Batt Insulation (R-30), Conc. ISO Block Stem Walls, Conc. FTG's per Struct., 10 Mil Vapor Barrier

1 Section 3
3/32" = 1'-0"

CEILING/ROOF CONSTRUCTION @ FUTURE MEETING ROOM
Comp. Shingle Roofing, Underlayment per Manuf., Plywd Sheathing per Struct., Wd Scissor Trusses w/ 12" Energy Heel, Batt Insulation (R-49) 5/8" Gyp Bd. w/ Vapor Barrier Paint



TYP. ROOF/CEILING CONSTRUCTION
Comp. Shingle Roofing, Underlayment per Manuf., Plywd Sheathing per Struct., Wd Trusses (Flat Bottom Chord) w/ 12" Energy Heel per Struct., Batt Insulation (R-49), 5/8" Gyp. Bd. w/ Vapor Barrier Paint

TYP. ROOF/CEILING CONSTRUCTION @ PORTE COCHERE
Comp. Shingle Roofing, Underlayment per Manuf., Plywd Sheathing per Struct., Wd Trusses (Flat Bottom Chord) per Struct. on WD Beams & Steel Cols, WD T&G Ceiling Finish

2 Section 4
3/32" = 1'-0"

REVISIONS:

THRHA - Craig Senior Center
PHASE 1

STATUS:
CONSTRUCTION DRAWINGS

DRAWN BY: NMG
CHECKED BY: NMG
DATE: 3.13.24
PROJECT #:222321.02

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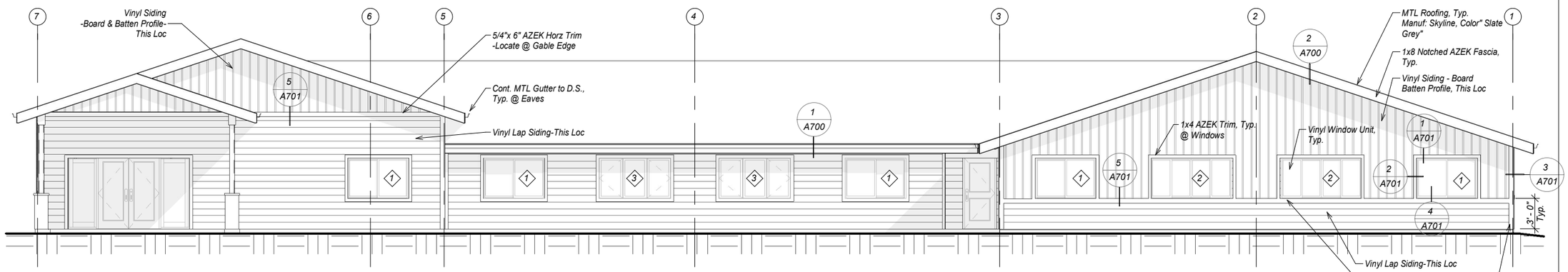
STATE OF ALASKA
49TH
NYCOLE M. GIZINSKI
120569
3.13.24
REGISTERED PROFESSIONAL ARCHITECT

SHEET DESCRIPTION:
Sections

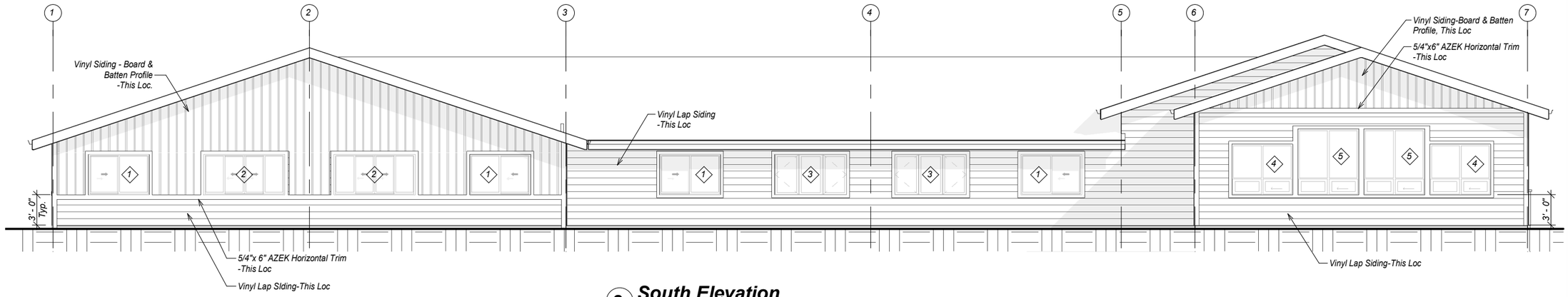
A301

SHEET:
21 of xx



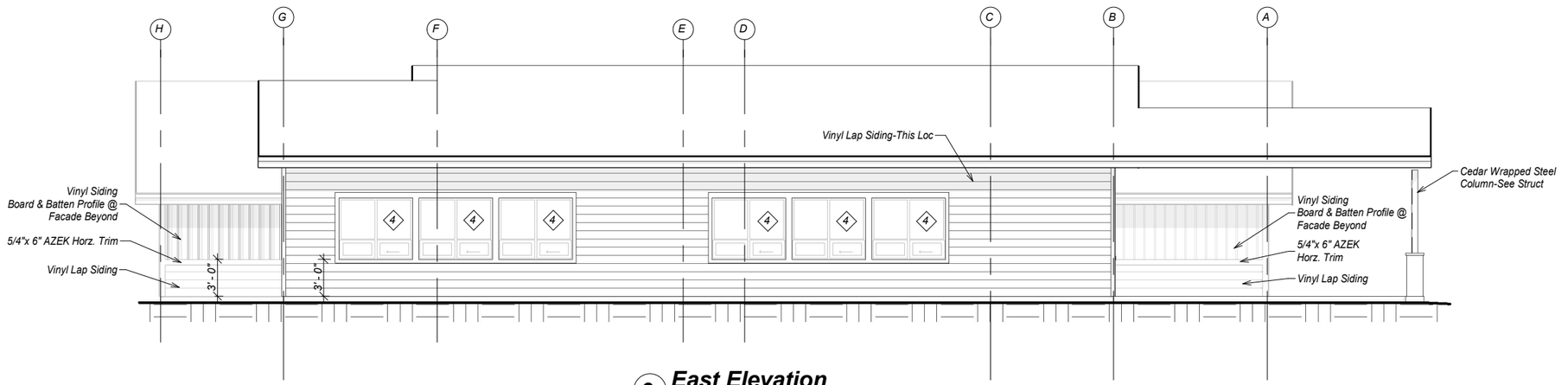
1 North Elevation

3/32" = 1'-0"



2 South Elevation

3/32" = 1'-0"



3 East Elevation

3/32" = 1'-0"

REVISIONS:

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PHASE 1

STATUS:

CONSTRUCTION DRAWINGS

DRAWN BY: NMG
CHECKED BY: NMG
DATE: 3.13.24
PROJECT #:222321.02

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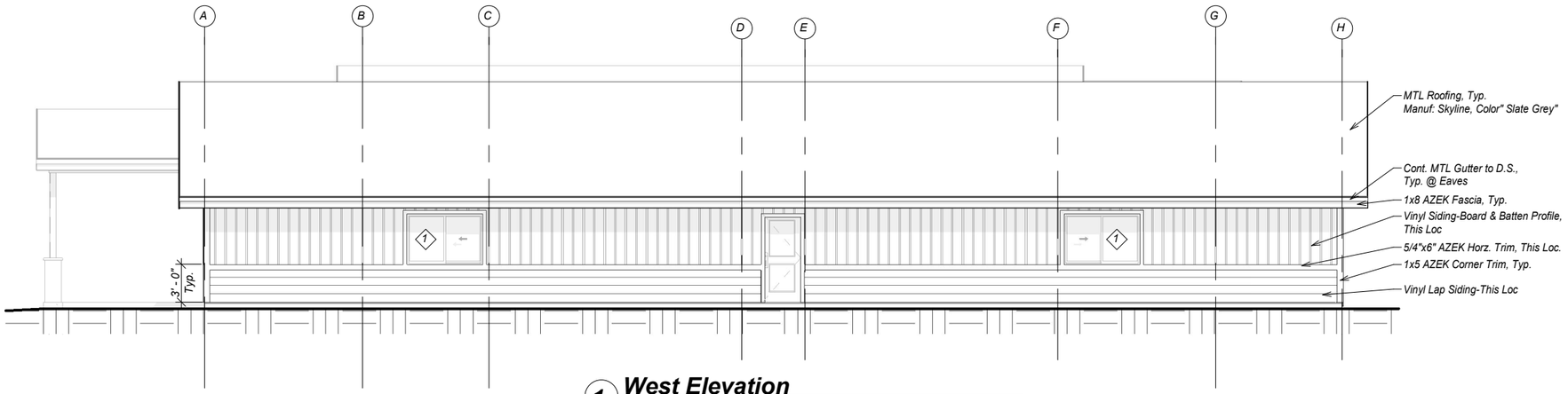
STATE OF ALASKA
49 TH
NYCOLE M. GIZINSKI
120569
3.13.24
REGISTERED PROFESSIONAL ARCHITECT

SHEET DESCRIPTION:
Elevations

A400

SHEET:
22 *of* **xx**



1 West Elevation
3/32" = 1'-0"

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PHASE 1

STATUS:
CONSTRUCTION DRAWINGS

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49 TH
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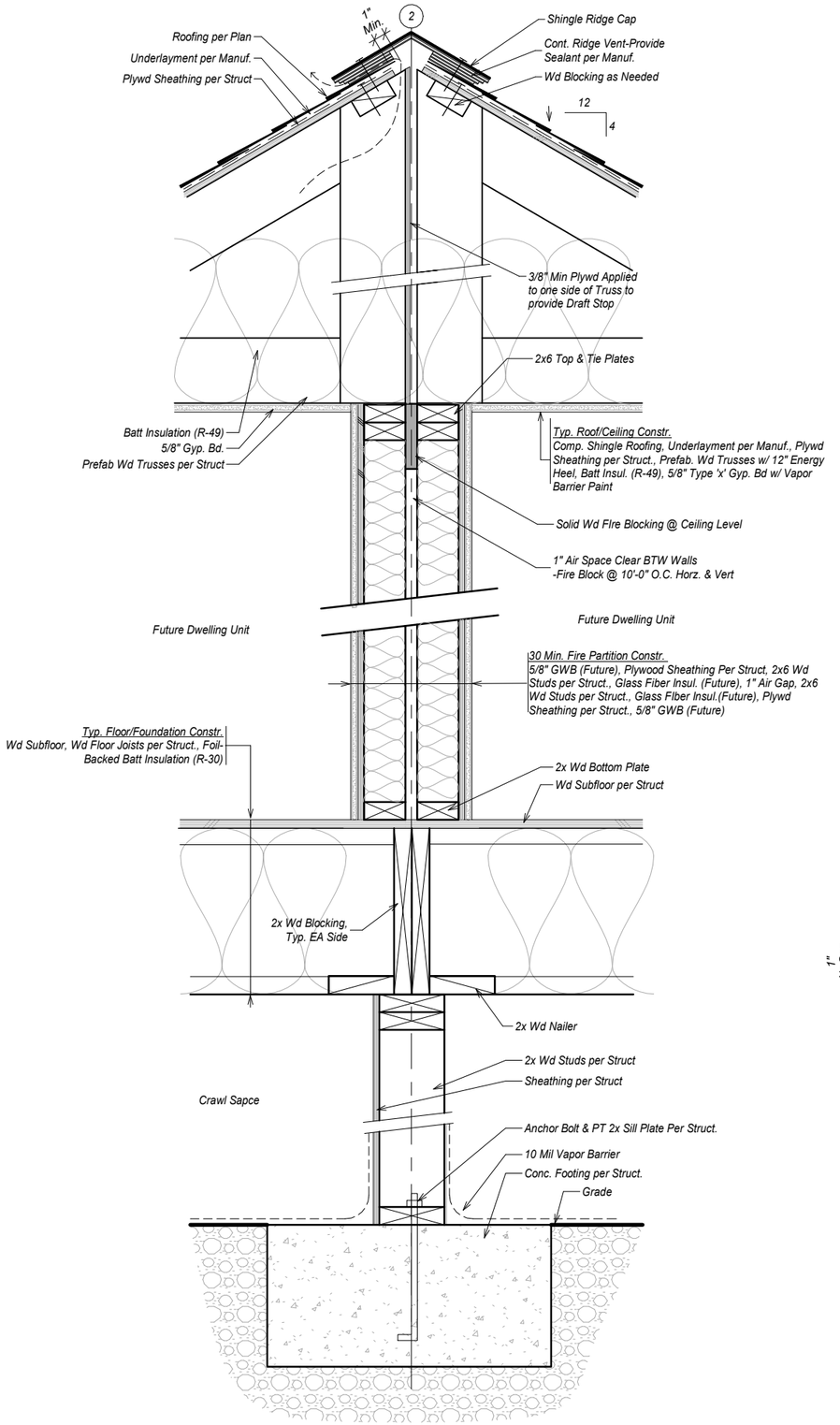
120569
3.13.24
REGISTERED PROFESSIONAL ARCHITECT

SHEET DESCRIPTION:
Elevations

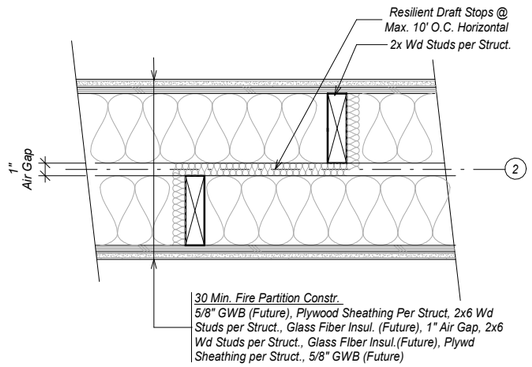
A401

SHEET:
23 *of* **xx**



1 Fire Partition @ Grid 2

1" = 1'-0"



Draft Stop Detail

REVISIONS:

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PHASE 1

STATUS:

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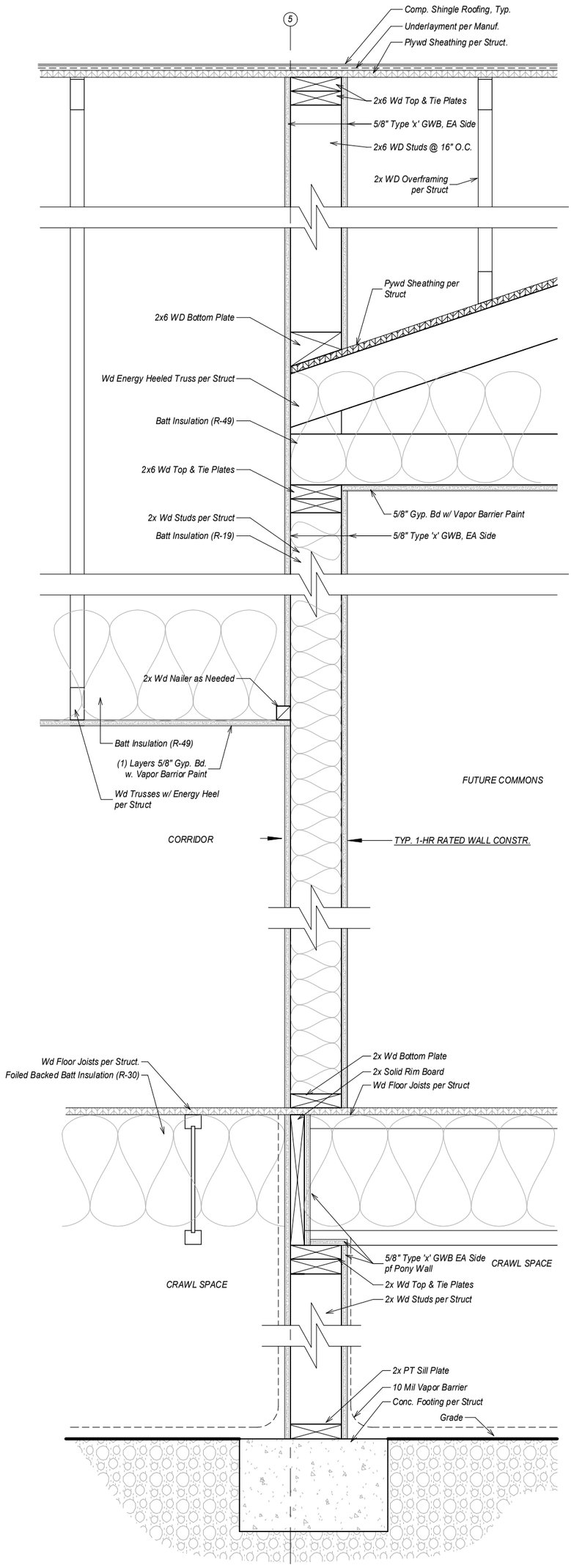
STATE OF ALASKA 49TH
NYCOLE M. GIZINSKI
120569
3.13.24
REGISTERED PROFESSIONAL ARCHITECT

SHEET DESCRIPTION:
Wall Sections

A500

SHEET:
24 of xx



1 Wall Section @ Grid 5 (Grid 3 SIM)

1" = 1'-0"

SHEET: 25 of xx

A501

SHEET DESCRIPTION: Wall Sections

STATE OF ALASKA 49TH — NICOLE M. GRINSON — 12539 — REGISTERED PROFESSIONAL ARCHITECT

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CHECKED BY: NMG
DATE: 3.13.24
PROJECT # 222321.02

STATUS: **CONSTRUCTION DRAWINGS**

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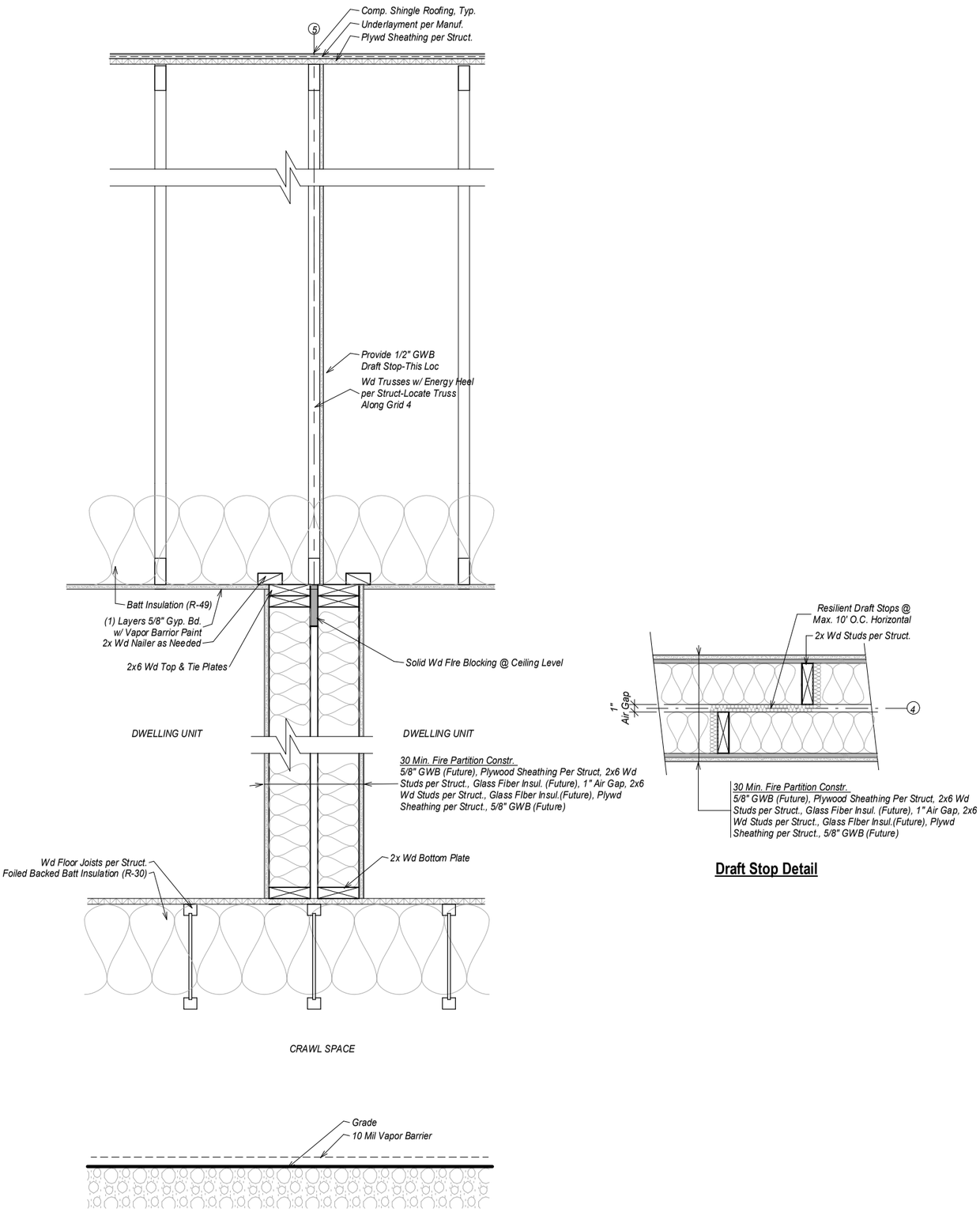
PHASE 1

REVISIONS:



Draft Stop Detail

1 Wall Section @ Grid 4

3/4" = 1'-0"

SHEET: 26 of xx

A502

SHEET DESCRIPTION: Wall Sections

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CHECKED BY: NMG
DATE: 3.13.24
PROJECT # 222321.02

STATUS: CONSTRUCTION DRAWINGS

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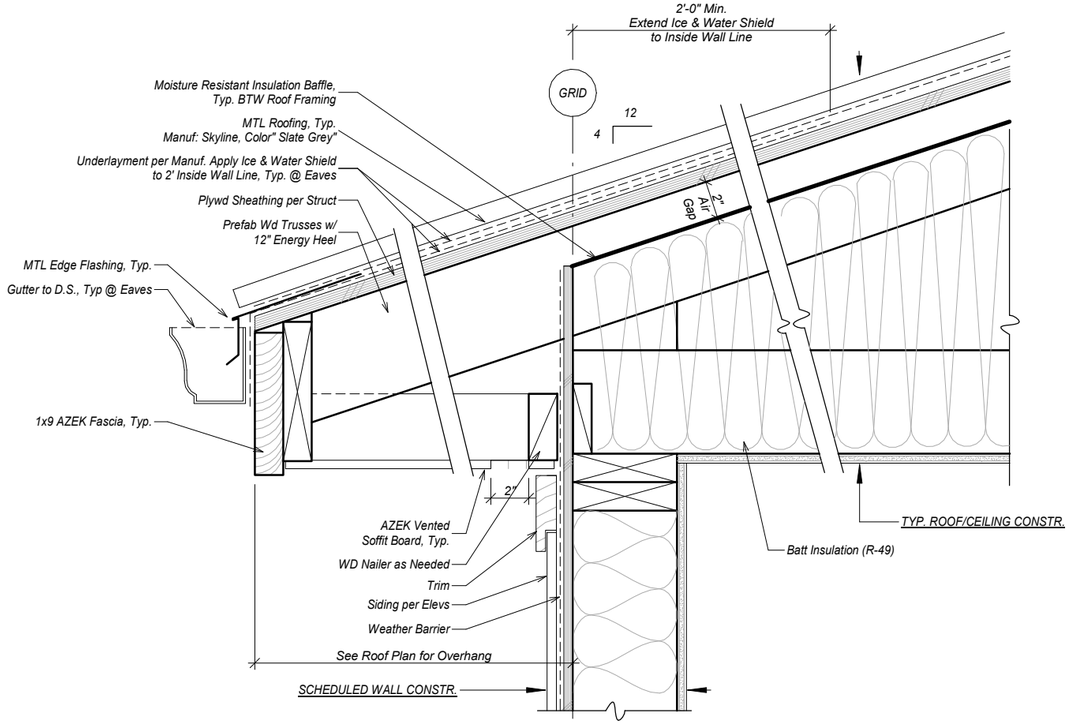
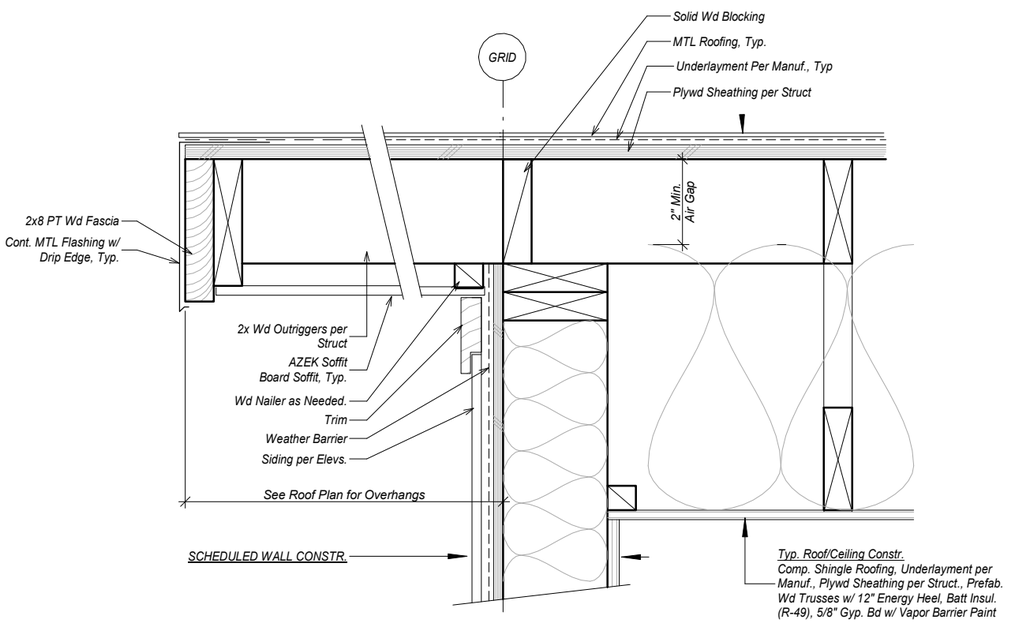
PHASE 1

REVISIONS:



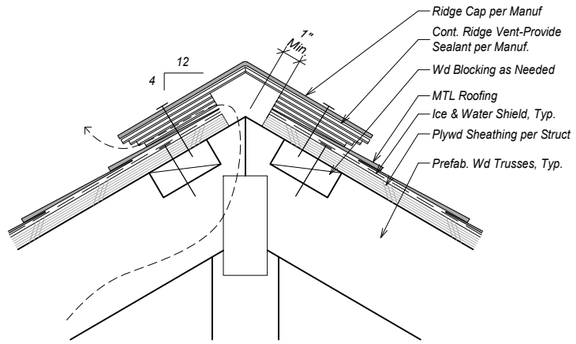
1 Typ. Eave Detail

1 1/2" = 1'-0"



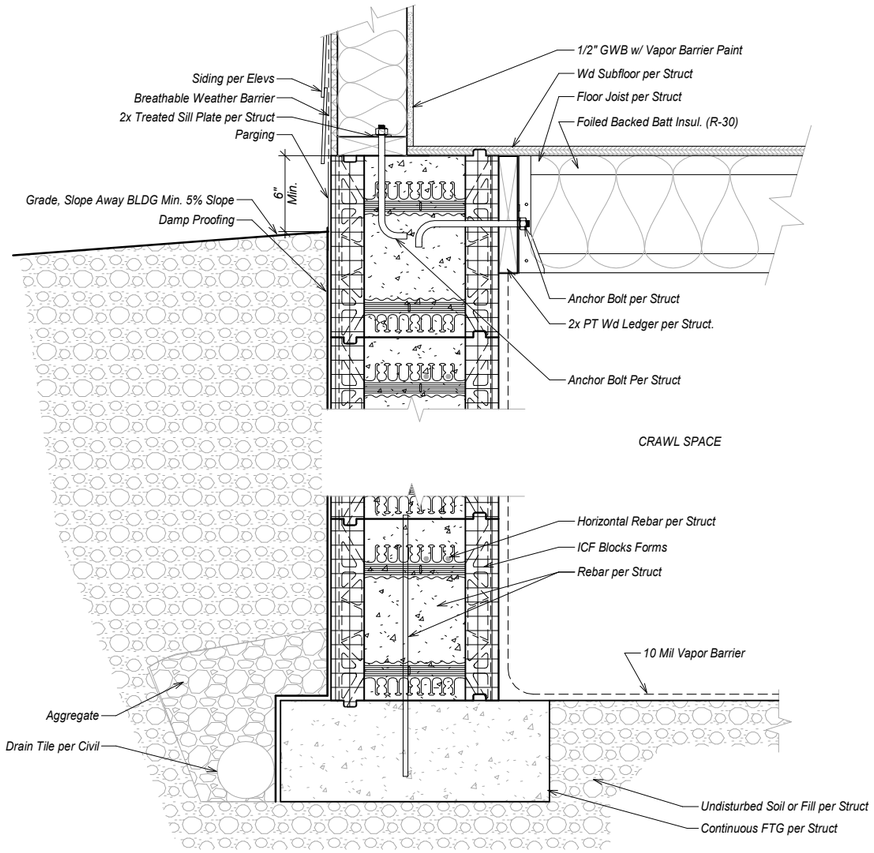
2 Typ. Rake Detail

1 1/2" = 1'-0"



3 Typ. Ridge Detail

1 1/2" = 1'-0"



4 Typ. Foundation Detail

1" = 1'-0"

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PHASE 1

STATUS:

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49 TH
NYCOLE M. GIZINSKI
120569
3.13.24
REGISTERED PROFESSIONAL ARCHITECT

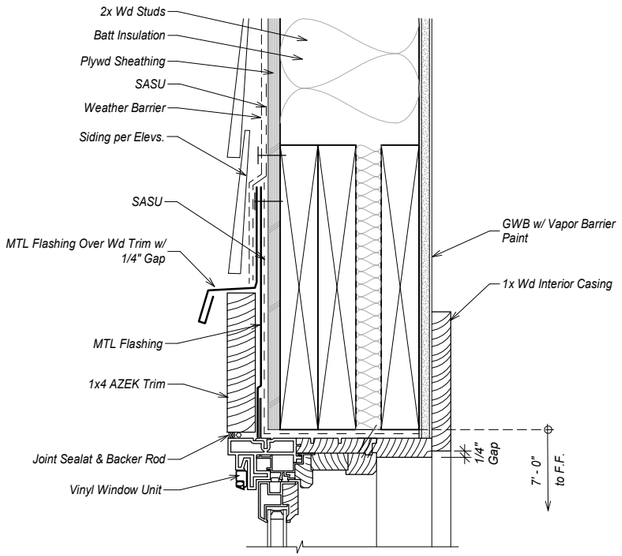
SHEET DESCRIPTION:

Details

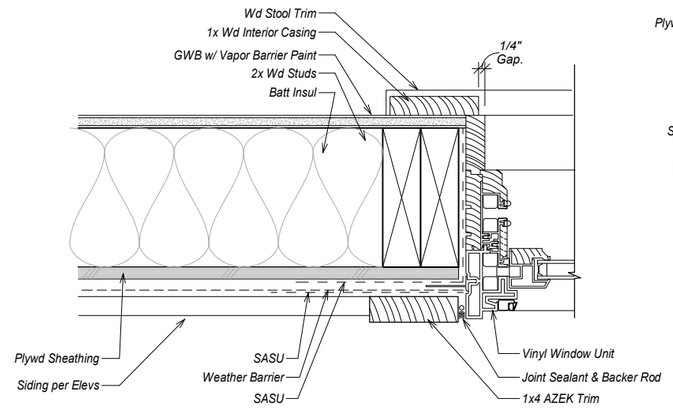
A700

SHEET:

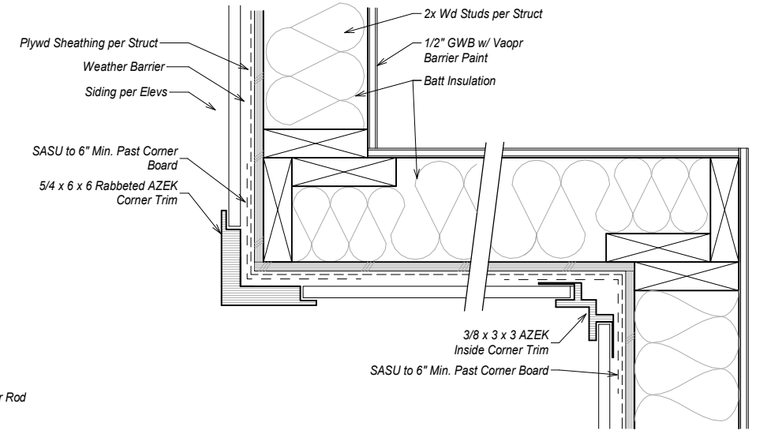
27 *of* **xx**



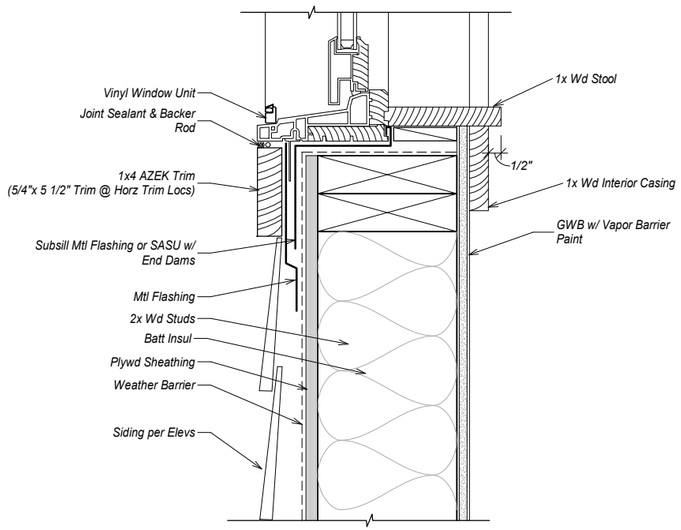
1 Typ. Window Head
1 : 6



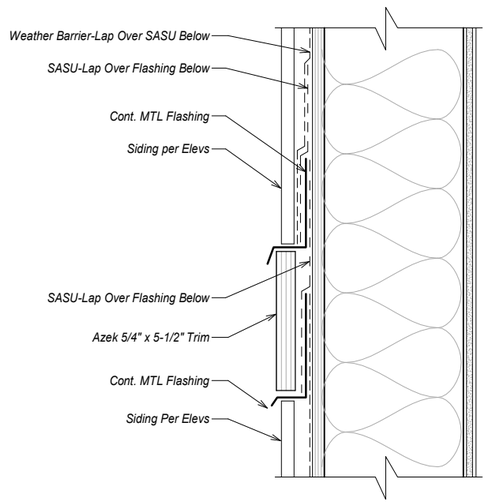
2 Typ. Window Jamb
1 : 6



3 Typ. Corner Detail
1 1/2" = 1'-0"



4 Typ. Window Sill
1 : 6



5 Typ. Siding Transition Detail
1 : 6

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PHASE 1

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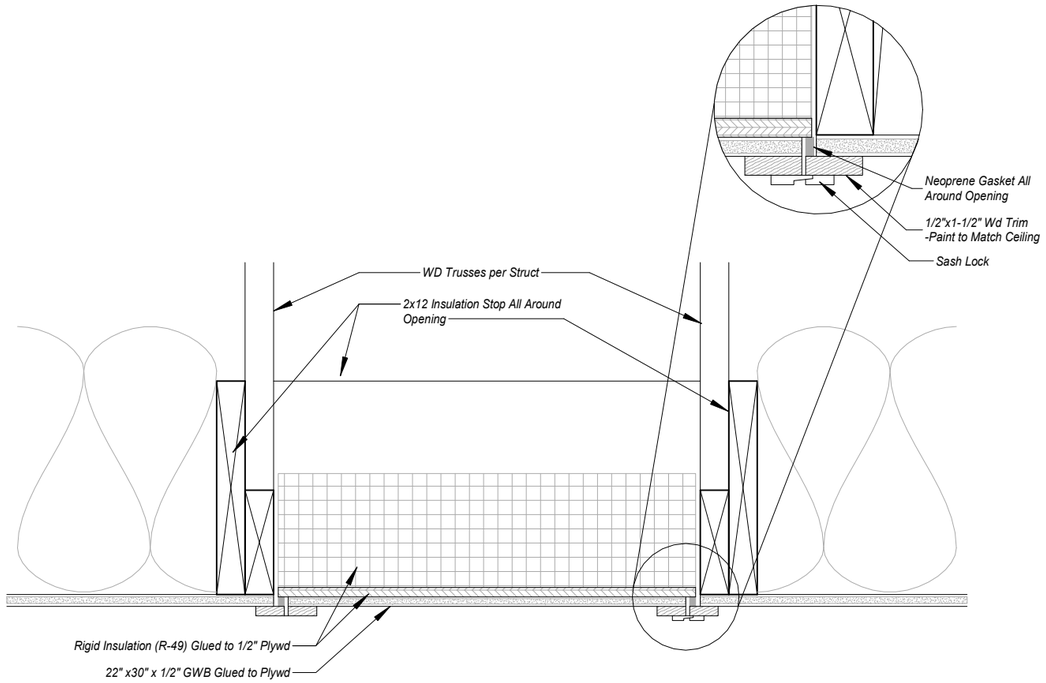
NYCOLE M. GIZINSKI
120569
3.13.24
REGISTERED PROFESSIONAL ARCHITECT

SHEET DESCRIPTION:
Details

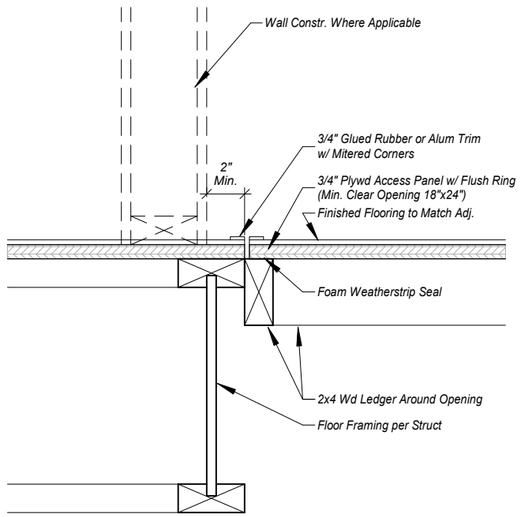
A701

SHEET:
28 *of* **xx**



1 Attic Access Hatch

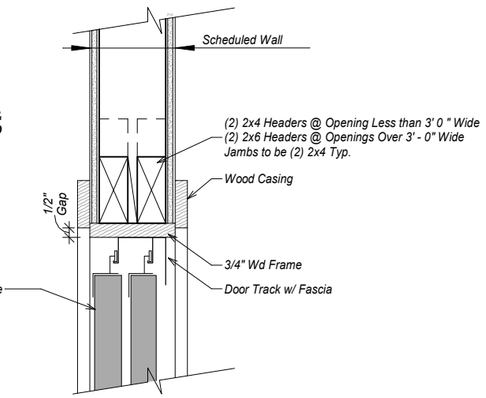
1 1/2" = 1'-0"



2 Crawl Space Access

1 1/2" = 1'-0"

NOTE: WOOD TRIM, JAMB, & STOPS TO BE PRE-FINISHED



3 By-Pass Door Head

1 1/2" = 1'-0"

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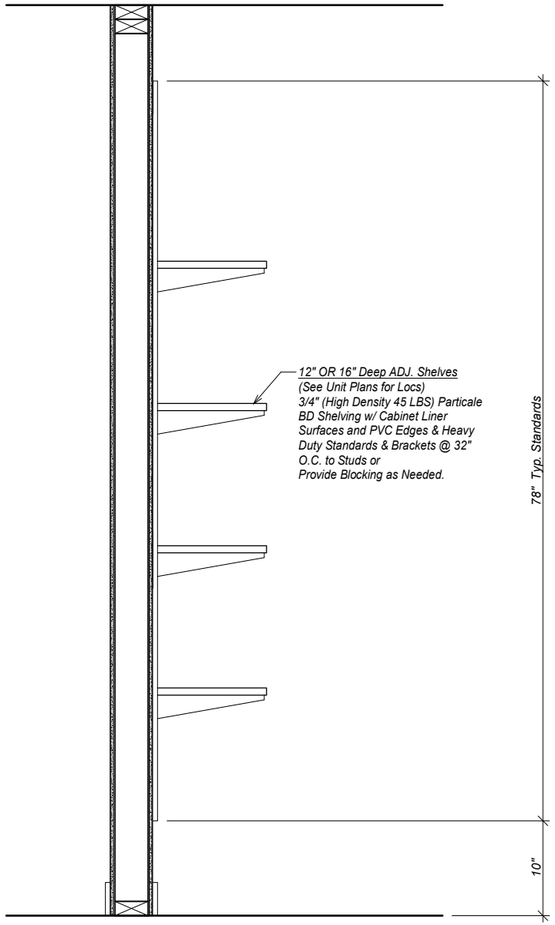
STATE OF ALASKA 49 TH
NYCOLE M. GIZINSKI
120569
3.13.24
REGISTERED PROFESSIONAL ARCHITECT

SHEET DESCRIPTION:
Interior Details

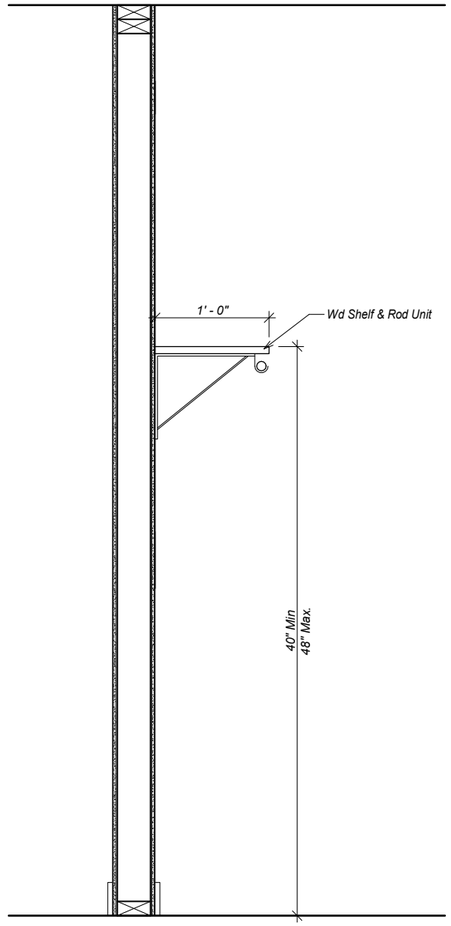
A702

SHEET:
29 *of* **xx**



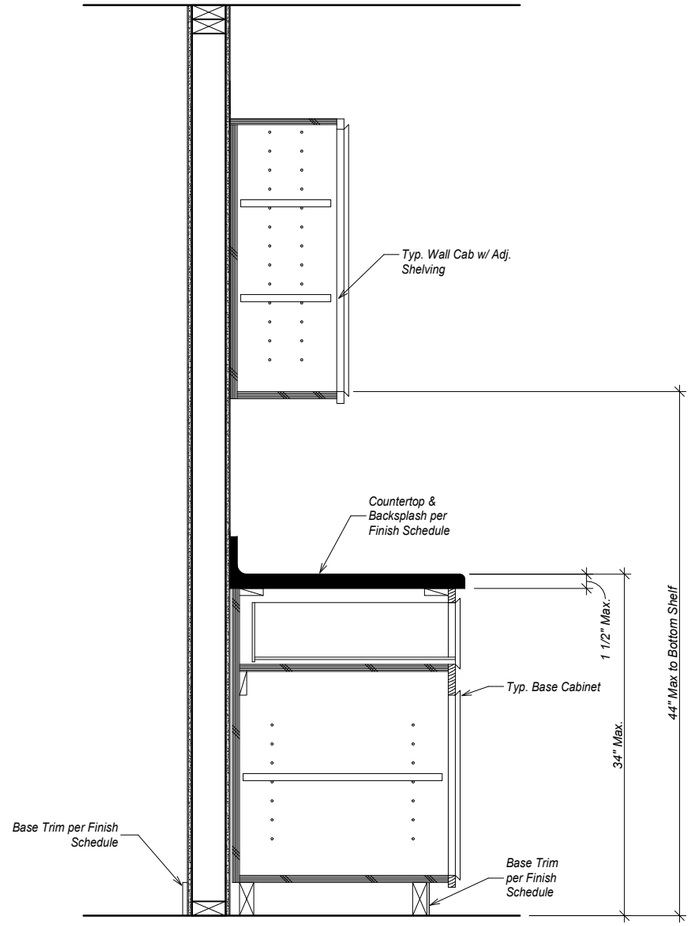
1 Typ. Adj. Wood Shelving

3/4" = 1'-0"



2 Typ. Closet Shelf & Rod

3/4" = 1'-0"



3 Typ. Casework

3/4" = 1'-0"

REVISIONS:

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PHASE 1

STATUS:

CONSTRUCTION DRAWINGS

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STATE OF ALASKA
49 TH
NYCOLE M. GIZINSKI
120569
3.13.24
REGISTERED PROFESSIONAL ARCHITECT

SHEET DESCRIPTION:
Interior Details

A703

SHEET:
30 *of* **xx**

GENERAL STRUCTURAL NOTES

GENERAL

BUILDING CODE: ALL MATERIALS, WORKMENSHIP,DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE INTERNATIONAL BUILDING CODE (IBC), 2021 EDITION.

STANDARDS:REFERENCE TO ASTM AND OTHER STANDARDS SHALL MEAN THE LATEST EDITION IN EFFECT ON THE BID DATE, UNLESS NOTED IN THESE DOCUMENTS OR DESIGNATED BY THE GOVERNING CODE.

LOADS AND CRITERIA

GRAVITY: IN ADDITION TO THE SELF WEIGHT, THE FOLLOWING WERE USED FOR DESIGN:

AREA	UNIFORM LIVE LOAD (PSF)
RESIDENTIAL AREAS	40
COMMON AREAS	100

SNOW DESIGN DATA:

GROUND SNOW LOAD	P_g = 55 PSF
FLAT-ROOF SNOW LOAD	P_f = 40 psf
SNOW EXPOSURE FACTOR	C_e = 0.9
SNOW LOAD IMPORTANCE FACTOR	I_s = 1.0
THERMAL FACTOR	C_t = 1.0
RAIN-ON-SNOW SURCHARGE	= 0 PSF
SLOPED ROOF SNOW LOAD	P_s = 40 PSF

WIND DESIGN DATA (GOVERNS DESIGN OF LATERAL FORCE RESISTING SYSTEM):

BASIC WIND SPEED (3-SECOND GUST)	V = 149 MPH
WIND RISK CATEGORY	I_w = II
SURFACE ROUGHNESS	= B
EXPOSURE CATEGORY	= D
INTERNAL PRESSURE COEFFICIENT	GC = 0.18 : ENCLOSED
COMPONENT AND CLADDING PRESSURE	P_{Pi} = +/- 41 PSF

SEISMIC DESIGN DATA

MAPPED SPECTRAL RESPONSE	Ss = 0.475 %g
	S1 = 0.32 %g
SPECTRAL RESPONSE COEFFICIENTS	Sds = 0.34 %g
	Sd1 = 0.29 %g
SEISMIC DESIGN CATEGORY	D

SHOP DRAWINGS AND SUBMITTALS SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION OR CONSTRUCTION OF THESE ITEMS:

CONCRETE MIX DESIGN	ROOF TRUSSES
CONCRETE REINFORCING	JOIST FRAMING

CONTRACTOR SHALL REVIEW AND STAMP SUBMITTALS PRIOR TO SUBMISSION. IF SHOP DRAWINGS DIFFER FROM DESIGN SHOWN ON STRUCTURAL DRAWINGS, THEY SHALL BE SEALED BY THE ALASKA STATE REGISTERED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN. DIMENSIONS AND QUANTITIES ARE CONTRACTOR'S RESPONSIBILITY AND WILL NOT BE REVIEWED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS PLACED PRIOR TO RECEIPT OF REVIEWED SUBMITTALS. CONTRACTOR SHALL ALLOW SUFFICIENT TIME FOR REVIEW.

NOTE:
SUBMIT TRUSS CALCULATIONS AND LAYOUT PLAN TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO SUBMITTAL TO CITY. PLANS AND CALCULATIONS TO BE APPROVED BY CITY PRIOR TO REQUESTING FRAME INSPECTION.

SOIL BEARING PRESSURE: 3000 PSF (IBC TABLE 1804.2)
SOIL BEARING IS BASED ON THREE TEST PITS EXCAVATED TO THE NATIVE BEACH GRAVEL WHICH CONFIRMED THE SITE WAS FILLED WITH SHOT ROCK FILL.

SPECIAL INSPECTION
CONTRACTOR SHALL PROVIDE SPECIAL INSPECTION FOR THE FOLLOWING:
- SOIL SUBGRADE
- GENERAL FRAMING
- REBAR PLACEMENT
- CONCRETE PLACEMENT
- STRUCTURAL HOLD DOWNS
- ROCK BOLTS (SEE NOTE BELOW)
- SUMMARY OF BUILDING INSPECTION (PUR-102)

CONCRETE

REFERENCE STANDARDS: CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE FOLLOWING DOCUMENTS, EXCEPT AS MODIFIED BELOW:

ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE"
ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
ACI 304 "GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE"
ACI 311 "GUIDE FOR CONCRETE INSPECTION"

MATERIALS:

CEMENT	ASTM C150, C595
AGGREGATE	ASTM C33
ADMIXTURES	ASTM C260, C494, & C1017
FLY ASH	ASTM C618, CLASS "F" OR "C"

AGGREGATES THAT EXHIBIT DELETERIOUS ACTIVITY WHEN EVALUATED IN ACCORDANCE WITH ASTM C33 APPENDIX XI SHALL NOT BE USED. SAND EQUIVALENT FOR FINE AGGREGATE SHALL NOT EXCEED 75.

MAXIMUM LOSS ON IGNITION SHALL BE 1%.

CONCRETE SHALL BE PROPORTIONED TO ACHIEVE A WORKABLE MIX THAT CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER. MIX DESIGNS SHALL BE SUBMITTED FOR REVIEW PRIOR TO USE. COMPLY WITH IBC SECTION 1905. MIXES SHALL MEET OR EXCEED THE FOLLOWING CRITERIA:

TYPE OF CONSTRUCTION	*COMPRESSIVE STRENGTH (f'c)*	*TEST AGE*	*MAXIMUM WATER/CEMENT RATIO*
FOOTINGS, TOPPING SLABS, RETAINING AND FOUNDATION WALLS, CONCRETE ON METAL DECK, WALLS	*4,000 PSI*	*28 DAYS*	*0.50*

ADMIXTURES: ALL CONCRETE, INCLUDING SLAB ON GRADE, SHALL HAVE A WATER-REDUCING ADMIXTURE COMPLYING WITH ASTM C-494 ADDED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. CALCIUM CHLORIDE OR OTHER CHLORIDE ADMIXTURES SHALL NOT BE USED.

ALL HORIZONTAL SURFACE EXPOSED TO WEATHER SHALL CONTAIN AN AIR-ENTRAINING AGENT COMPLYING WITH ASTM C260. THE AMOUNT OF ENTRAINED AIR SHALL BE 5% +/- 1 1/2% BY VOLUME. TESTS FOR AIR CONTENT SHALL BE MADE AT THE DISCHARGE END OF THE PLACING HOSE IN ACCORDANCE WITH ASTM C173.

WATER/CEMENT RATIO SHALL BE MEASURED BY WEIGHT AND BE BASED ON TOTAL CEMENTITIOUS MATERIAL, INCLUDING CEMENT AND POZZOLANS SUCH AS FLY ASH AND SILICA FUME.

MAXIMUM AGGREGATE SIZE SHALL BE 1 1/2". BUT NOT MORE THAN 3/4 TIMES THE CLEAR DISTANCE BETWEEN REINFORCING BARS NOR 1/5 TIMES THE NARROWEST DIMENSION BETWEEN SIDES OF FORMS. MAXIMUM AGGREGATE SIZE FOR SLABS ON GRADE SHALL BE 1/3 TIMES THE SLAB THICKNESS.

SLUMP REQUIRED FOR PROPER PLACEMENT SHALL BE DETERMINED BY CONTRACTOR AND SUPPLIER, AND INCLUDED IN MIX DESIGN SUBMITTALS. FIELD MEASURED SLUMP SHALL CONFORM TO SUBMITTED CONCRETE MIX DESIGN. SLUMP SHALL CONFORM TO ASTM C94.

EMBEDDED ITEMS: CONDUIT AND SLEEVES SHALL NOT BE EMBEDDED IN OR PASS THROUGH CONCRETE WITHOUT APPROVAL. ALUMINUM ITEMS SHALL NOT BE EMBEDDED IN CONCRETE. SUBMIT CONDUIT LAYOUTS AND EMBEDDED ITEM PLANS FOR REVIEW PRIOR TO PLACING CONCRETE.

CONSTRUCTION JOINTS IN WALLS SHALL BE KEYED IN ACCORDANCE WITH TYPICAL CONSTRUCTION JOINT DETAILS SHOWN ON DRAWINGS OR, AT CONTRACTOR'S OPTION, SHALL BE AN INTENTIONALLY ROUGHENED CONSTRUCTION JOINT DEFINED BY THE FOLLOWING:
1. SURFACE OF JOINT SHALL BE SAND BLASTED OR ROUGHENED WITH A CHIPPING HAMMER TO EXPOSE AGGREGATE EMBEDDED IN PREVIOUS POUR.
2. EXPOSED AGGREGATE SHALL BE CLEANED AND LAITANCE REMOVED.
3. JOINT SURFACE SHALL BE CLEANED AND LAITANCE REMOVED.
4. JOINT SHALL BE WETTED AND STANDING WATER REMOVED IMMEDIATELY BEFORE NEW CONCRETE IS PLACED.

CONSTRUCTION JOINTS WHEN REQUIRED SHALL BE IN ACCORDANCE WITH ACI 6.4. SUBMIT JOINT LAYOUT PLAN FOR REVIEW PRIOR TO PLACING CONCRETE.

CONCRETE REINFORCEMENT

REFERENCE STANDARDS: CONCRETE REINFORCEMENT SHALL CONFORM TO ALL REQUIREMENTS OF THE FOLLOWING CODES, SPECIFICATIONS, AND STANDARDS, EXCEPT AS MODIFIED BELOW:

ACI 301
ACI SP-66
ACI 318
CRSI
CRSI
WRI

MATERIALS:

DEFORMED BARS	ASTM A615, GRADE 60
SMOOTH WELDED WIRE	ASTM A185, 65 KSI YIELD
BAR SUPPORTS	CONFORM TO CHAPTER 3, CRSI MSP-1

REINFORCING STEEL SHALL BE PLACED AND SUPPORTED IN ACCORDANCE WITH CRSI MSP-1. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACI SP-66. NO BENDING OR STRAIGHTENING OF REINFORCEMENT WILL BE PERMITTED AFTER PARTIAL EMBEDMENT IN CONCRETE.

LAP ALL CONTINUOUS REINFORCEMENT IN ACCORDANCE WITH THE SECTIONS AND DETAILS. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 1 CROSS WIRE SPACING + 2" OR 8" WHICHEVER IS GREATER.

BAR SIZE	*#4*	*#5*
L	*30"*	*37.5"*
L_D 18"	*22.5"*	

WELDING OR TACK WELDING OF REINFORCING BARS TO OTHER BARS OR TO PLATES, ANGELS, ETC IS PROHIBITED, EXCEPT WHERE SPECIFICALLY APPROVED. WHERE WELDING IS APPROVED, IT SHALL BE DONE BY AWS CERTIFIED WELDERS USING E9018 ELECTRODES. WELDING PROCEDURES SHALL COMPLY WITH AWS-D1.4.

CONCRETE COVER: UNLESS NOTED OTHERWISE, MINIMUM COVER FOR REINFORCING SHALL BE:

ELEVATED SLABS	3/4" (1" AT FIRE-RESISTIVE RATING ≥ 2 HOURS)
SLABS ON GRADE	2" BOTTOM
INTERIOR WALL FACES	3/4"
EXPOSED FORMED WALL FACES	1 1/2" (#5 AND SMALLER), 2" (#6 & LARGER)
FOOTINGS	3" (2" TOP AND FORMED SIDES)
BEAMS, COLUMNS	1 1/2" (TO TIES, SPIRALS, STIRRUPS)

FIBROUS REINFORCEMENT: POLYPROPYLENE FIBROUS REINFORCEMENT ("FIBERMESH", "GRACE FIBERS", OR APPROVED EQUAL) SHALL BE USED WHERE NOTED ON THE DRAWINGS. SUBMIT PROPOSED PRODUCT DATA AND SPECIFICATIONS FOR REVIEW. ADD FIBERS TO CONCRETE MIX AND FINISH IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. COMPLY WITH ASTM C116, TYPE III, PERFORMANCE LEVEL 1. MINIMUM APPLICATION RATE SHALL BE 1.5 LB/CY.

ANCHORAGE

POST-INSTALLED ANCHORS SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND NOTED ICC-ES REPORTS. SUBSTITUTES PROPOSED BY CONTRACTOR SHALL BE SUBMITTED FOR REVIEW WITH ICC-ES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. ALLOWABLE EPOXY PRODUCTS INCLUDE HILTI HY-150 OR APPROVED EQUAL.

NO REINFORCING BARS SHALL BE CUT TO INSTALL ANCHORS. ALL DEFECTIVE ANCHOR HOLES SHALL BE GROUTED WITH EPOXY ADHESIVE AND A NEW HOLE DRILLED A MINIMUM OF 3 BOLT DIAMETERS AWAY.

WOOD

REFERENCE STANDARDS: WOOD FRAMING SHALL CONFORM TO ALL REQUIREMENTS OF THE FOLLOWING DOCUMENTS, EXCEPT AS MODIFIED BELOW:

AITC
AF & PA

PLYWOOD: WOOD STRUCTURAL PANELS SHALL CONFORM TO REQUIREMENTS OF U.S. DEPARTMENT OF COMMERCE PS-1 OR PS-2. EACH PANEL SHALL BEAR THE AMERICAN PLYWOOD ASSOCIATION (APS) GRADE MARK. SEE DRAWINGS FOR GRADE AND THICKNESS.

SHEATHING: UNLESS NOTED OTHERWISE, ROOF AND FLOOR PANELS SHALL BE INSTALLED WITH LONG DIMENSION PERPENDICULAR TO SUPPORTS AND CONTINUOUS OVER 2 OR MORE SPANS. PLACE NAILS 3/8" FROM PANEL ENDS AND EDGES. DRIVE ALL NAILS FLUSH WITH SHEATHING SURFACE.

USE	*SIZE*	*SPECIES*	*GRADE*
WALL STUDS	*2x 3x*	*HEM-FIR*	*#2*
SILL PLATES	*2x 3x*	*HEM-FIR*	*#2*
JOISTS	*2x*	*HEM-FIR*	*#2*
JOISTS	*3x 4x*	*HEM-FIR*	*#2*
BEAMS/POSTS	*4x*	*HEM-FIR*	*#2*
BEAMS/POSTS	*6x*	*HEM-FIR*	*#1*
T&G DECKING	*2x*	*HEM-FIR*	*#2*

GLUE LAMINATED MEMBERS (GLULAMS) SHALL BE FABRICATED IN CONFORMANCE WITH U.S. PRODUCT STANDARD PS 56-73 AND AITC STANDARD SPECIFICATIONS FOR STRUCTURAL GLUED LAMINATED TIMBER OF SOFTWOOD SPECIES, MANUFACTURING REQUIREMENTS AITC 117-93. EACH MEMBER SHALL BEAR AN AITC OF CONFORMANCE. GLULAMS SHALL BE ARCHITECTURAL GRADE WITH STRENGTH GRADES AS NOTED BELOW:

BEAMS: 24F-E11 (Fb=2400 PSI, Fv=195 PSI, E=1800 KSI)

ENGINEERED WOOD JOISTS: DESIGN SHOWN ON DRAWINGS IS BASED ON JOISTS MANUFACTURED BY BOISE CASCADE. SUBSTITUTES SHALL BE SUBMITTED WITH A CURRENT ICC-ES EVALUATION REPORT AND AN ITEMIZED SUBSTITUTION LIST FOR APPROVAL. JOIST SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURERS INSTRUCTIONS. ALL NECESSARY ACCESSORIES, SUCH AS BRIDGING, BLOCKING AND STIFFENERS, SHALL BE FURNISHED BY THE MANUFACTURER.

ENGINEERED LUMBER: DESIGN SHOWN ON DRAWINGS IS BASED ON LUMBER MANUFACTURED BY BOISE CASCADE SUBSTITUTES SHALL BE SUBMITTED WITH A CURRENT ICC-ES EVALUATION REPORT AND AN ITEMIZED SUBSTITUTION LIST FOR APPROVAL.

CONNECTORS: DESIGN SHOWN ON DRAWINGS IS BASED ON CONNETEERS MANUFACTURED BY SIMPSON STRONG-TIE IN ACCORDANCE WITH CATALOG C-2004. SUBSTITUTES SHALL BE SUBMITTED WITH A CURRENT ICC-ES EVALUATION REPORT AND AN ITEMIZED SUBSTITUTION LIST FOR APPROVAL. CONNECTORS SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS.

NAILING NOT SHOWN SHALL BE AS SHOWN IN IBC TABLE 2304.9.1 OR CURRENT ICC-ES REPORT NER-272. MINIMUM NAIL DIMENSIONS SHALL BE AS FOLLOWS:

SIZE	DIAMETER	LENGTH
6d	0.113"	2"
8d	0.131"	2 1/2"
10d	0.148"	3"
12d	0.148"	3 1/4"
16d	0.162"	3 1/2"
20d	0.192"	4"

BOLTS AND LAG SCREWS SHALL CONFORM TO ASTM A307.

WOOD PROTECTION: ALL WOOD MEMBERS EXPOSED TO WEATHER AND SPECIFIED AS "PT" ON THE DRAWINGS SHALL BE PRESSURE-TREATED WITH AN APPROVED PRESERVATIVE. FASTENERS IN TREATED WOOD SHALL BE HOT DIPPED ZINC COATED GALVANIZED PER ASTM A153, STAINLESS STEEL, SILICON BRONZE OR COPPER.

FLOOR FRAMING: ALL FLOOR FRAMING TO HAVE A MINIMUM LIVE LOAD DEFLECTION LIMIT OF L/480.

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PHASE 1

STATUS:
CONSTRUCTION DRAWINGS

DRAWN BY: NMG
CHECKED BY: TSS
DATE: 3.13.24
PROJECT #:222321.02

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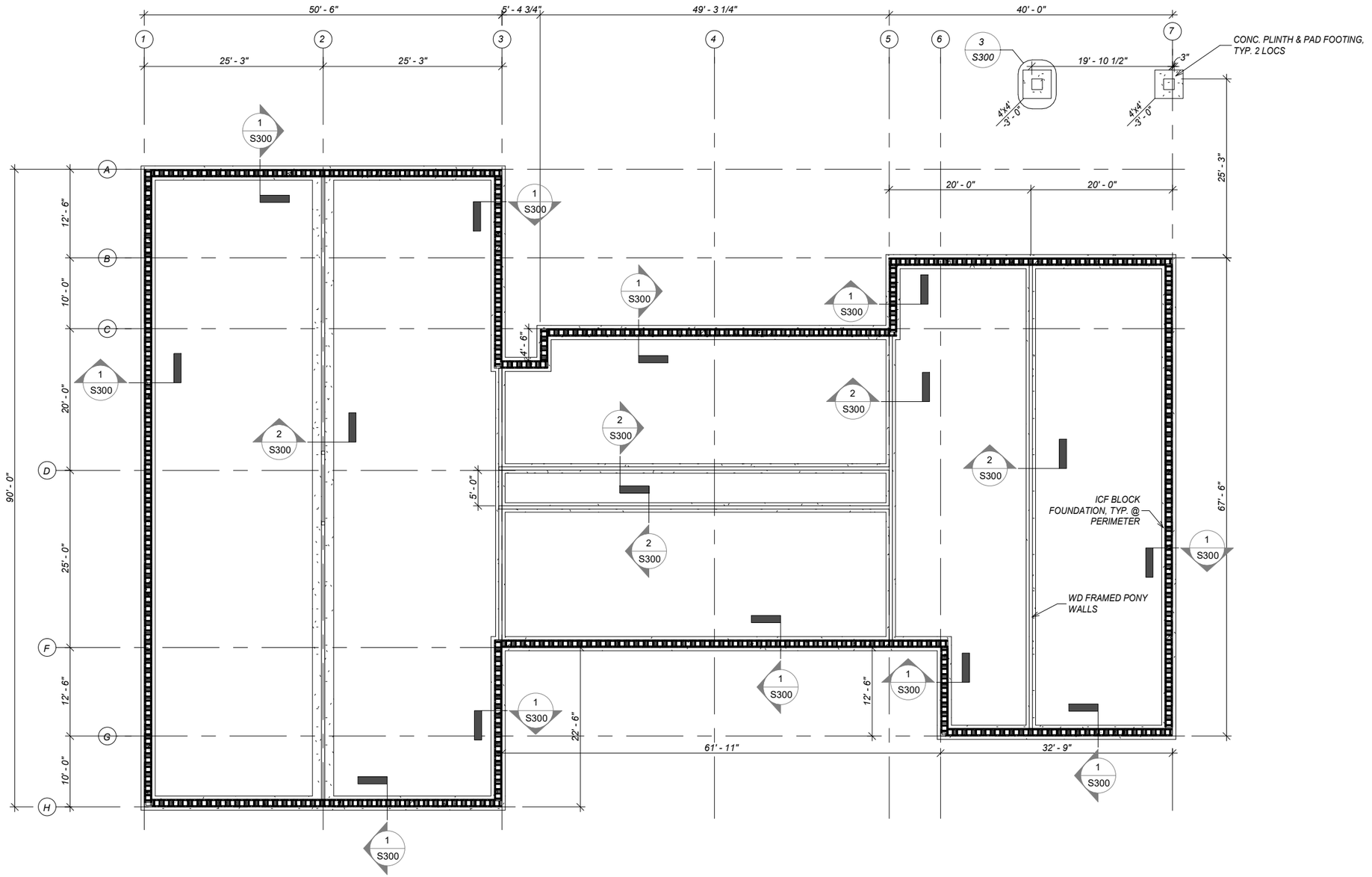
STATE OF ALASKA 49th
TREVOR SANDE
CE 9778
3.13.24
REGISTERED PROFESSIONAL ENGINEER

SHEET DESCRIPTION:
Structural Notes

S100

SHEET:
31 of xx



1 Foundation Plan

1/16" = 1'-0"

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PHASE 1

STATUS:
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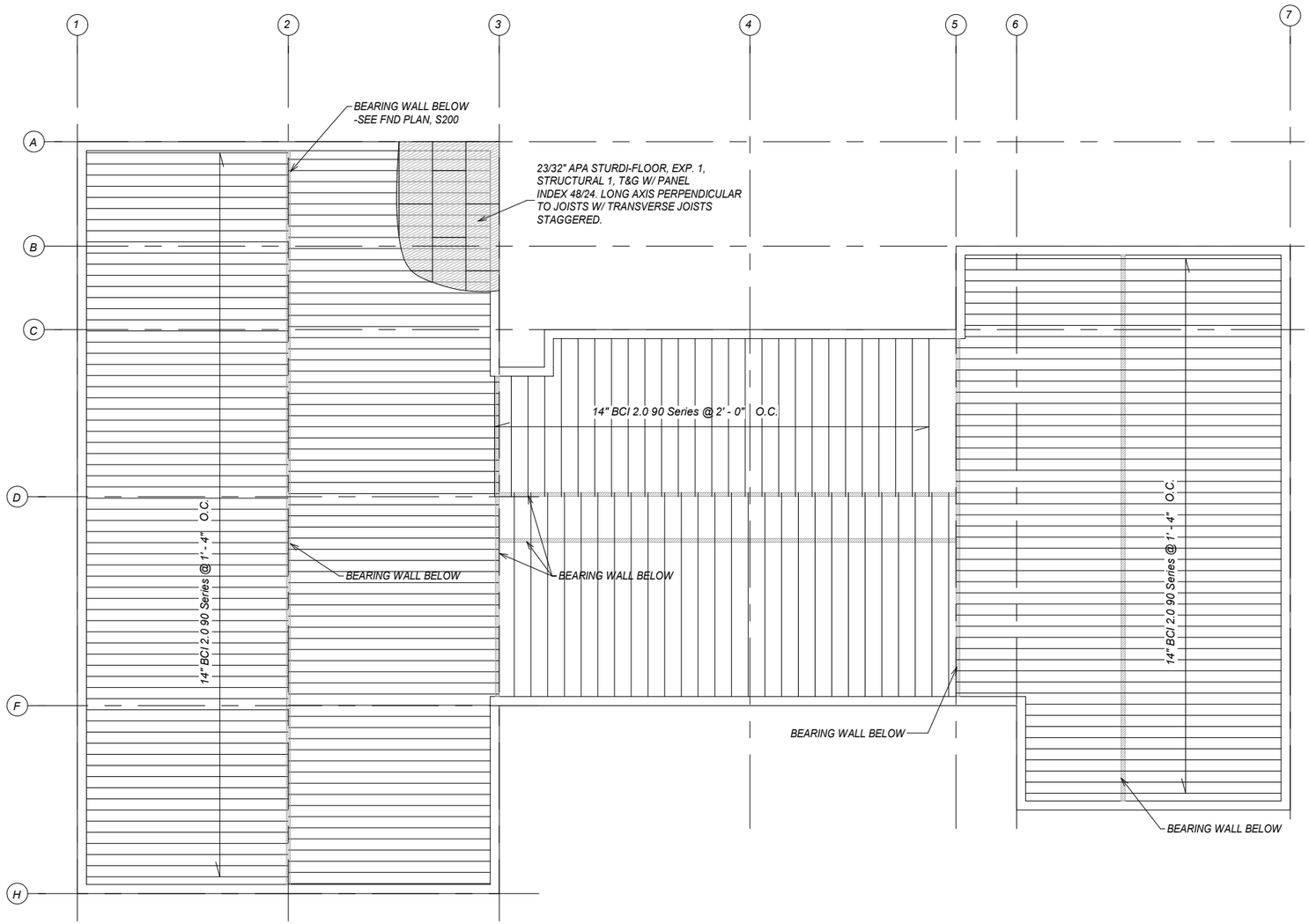
SHEET DESCRIPTION:
Foundation Plan

S200

SHEET:
32 of xx



1 Main Level Floor Framing Plan

1/16" = 1'-0"

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STATUS:

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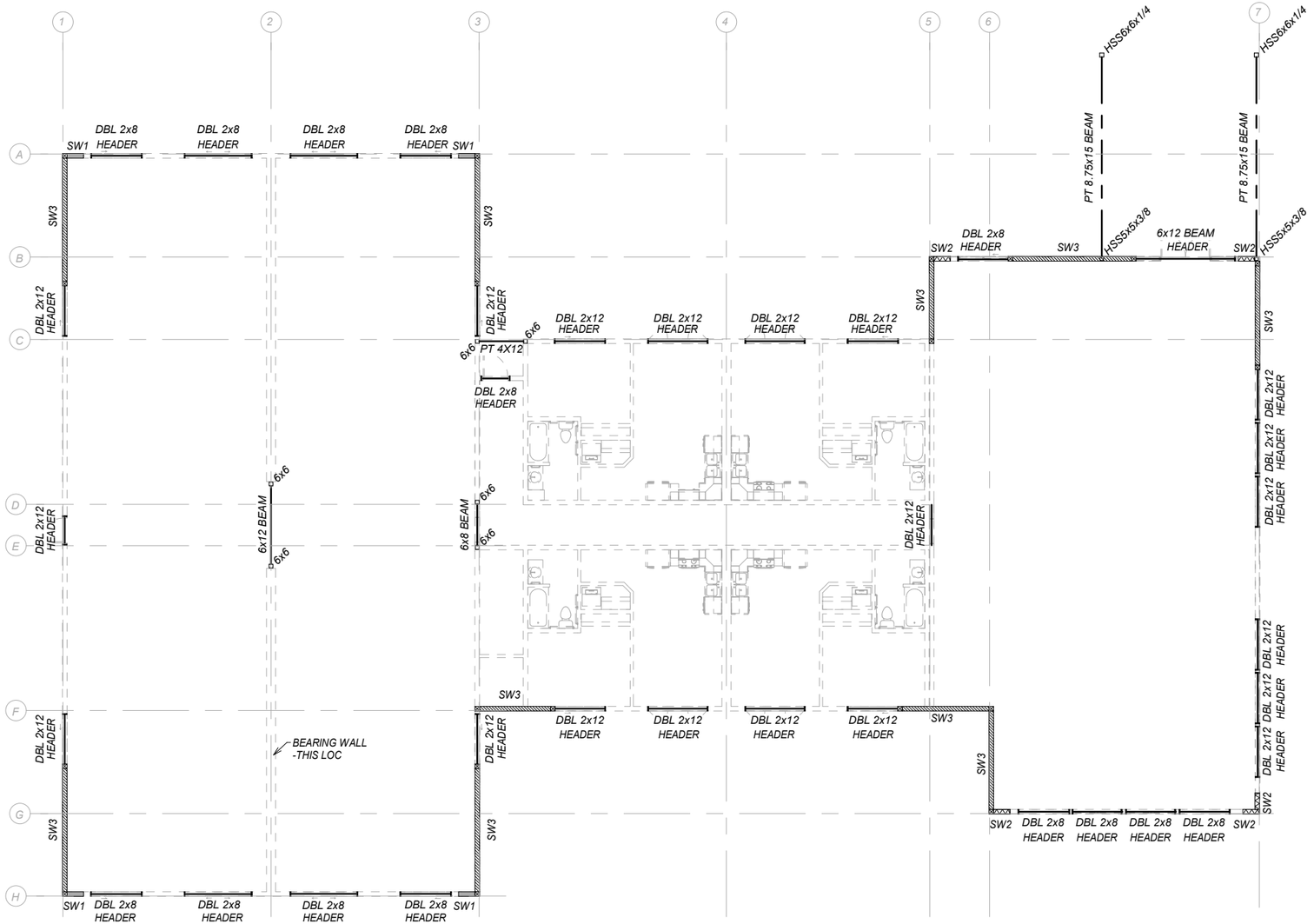
SHEET DESCRIPTION:
Main Floor Framing Plan

S201

SHEET:
33 *of* **xx**



1 Header & Shearwall Plan

1/16" = 1'-0"

SHEARWALL SCHEDULE

SW1 SIMPSON STRONG WALL - SSW24X8

SW2 SIMPSON STRONG WALL - SSW24X11

SW3 15/32" CDX STRUCTURAL SHEATHING ONE SIDE. FASTENERS TO BE 10d WITH 1-1/2" PENETRATION INTO FRAMING. OUTSIDE PANEL NAILING TO BE 4", INTERIOR SPACING TO BE 12". MIN 4x6 AT EACH END OR AS NOTED WITH SIMPSON HDU5-SDS2.5. SILL PLATE BOLTS TO BE 5/8" @ 24" O.C.. SILL PLATE BOLTS AT NON SHEARWALLS LOCATIONS TO BE 5/8" @ 48" O.C.

NOTES:

1. *FLOOR SHEATHING SHALL BE 23/32" APA STURDI-FLOOR, EXP. 1, STRUCTURAL 1, T&G W/ PANEL INDEX 48/24. LONG AXIS PERPENDICULAR TO JOISTS W/ TRANSVERSE JOISTS STAGGERED.*
2. *BEARING WALLS SHALL BE 2"X6" LUMBER BEAMS, SET @ 16" O.C., UNLESS OTHERWISE NOTED.*
3. *INTERIOR WALL SHALL BE 2"X4" LUMBER BEAMS, SET AT 16" O.C., UNLESS OTHERWISE NOTED.*
4. *FLOOR TO FLOOR STRAPPING TO BE SIMPSON CMST12, CLEAR SPAN +90", ON 8' CENTERS ALONG THE EXTERIOR WALLS.*
5. *ALL BEAMS MUST HAVE MINIMUM BEARING LENGTH OF 3"*
6. *INTERIOR HEADERS LOCATED W/IN A NON-BEARING WALL SHALL CONSISTS OF A (2) 2x8 HEADER SUPPORTED BY A (1) 2x (MIN.) JACK STUD @ BOTH ENDS.*
7. *CONTRACTOR TO VERIFY HANGER DIMENSION AND CONFIGURATIONS WITH SIMPSON PRIOR TO CONSTRUCTION. ADDITIONALLY, ALL JOIST HANGERS AND BEAM SUPPORTS SHALL BE APPROVED BY THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.*

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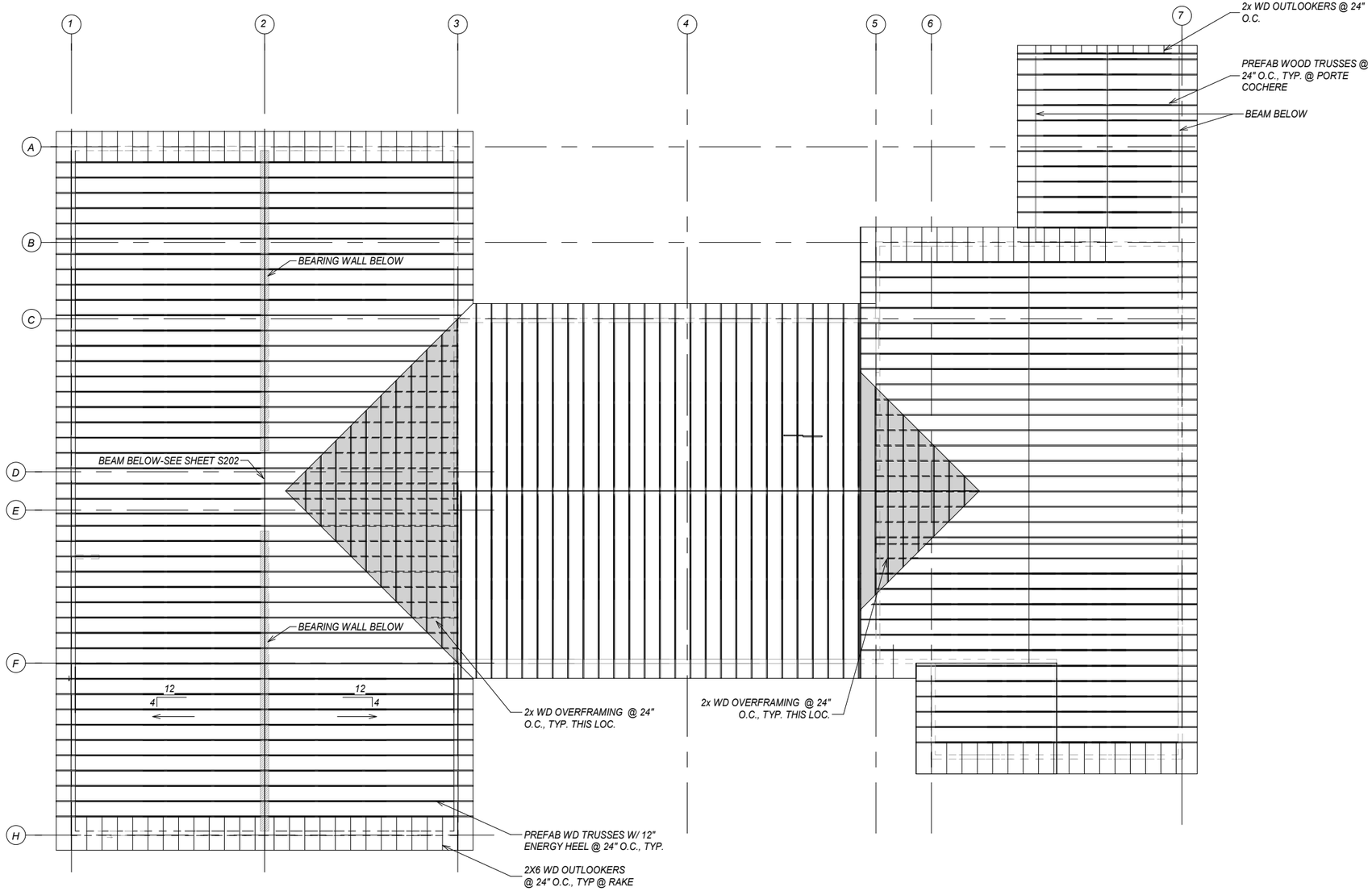
SHEET DESCRIPTION:
Header & Shearwall Plan

S202

SHEET:
34 *of* **xx**



1 Roof Framing Plan

1/16" = 1'-0"

ROOF SHEATHING
19/32" APA CDX RATED SHEATHING w/ PANEL INDEX 40/20, EXTERIOR GLUE. LONG AXIS PERPENDICULAR TO TRUSSES w/ TRANSVERSE JOINTS STAGGERED. BLOCK DIAPHRAGM AT PANEL EDGES WITHIN 8' OF ENDWALLS AND SHEARWALLS. BLOCK WITH FLAT 2x6 AT EVERY PANEL EDGE, 6" EXTERIOR NAIL SPACING.

REVISIONS:

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STATUS:
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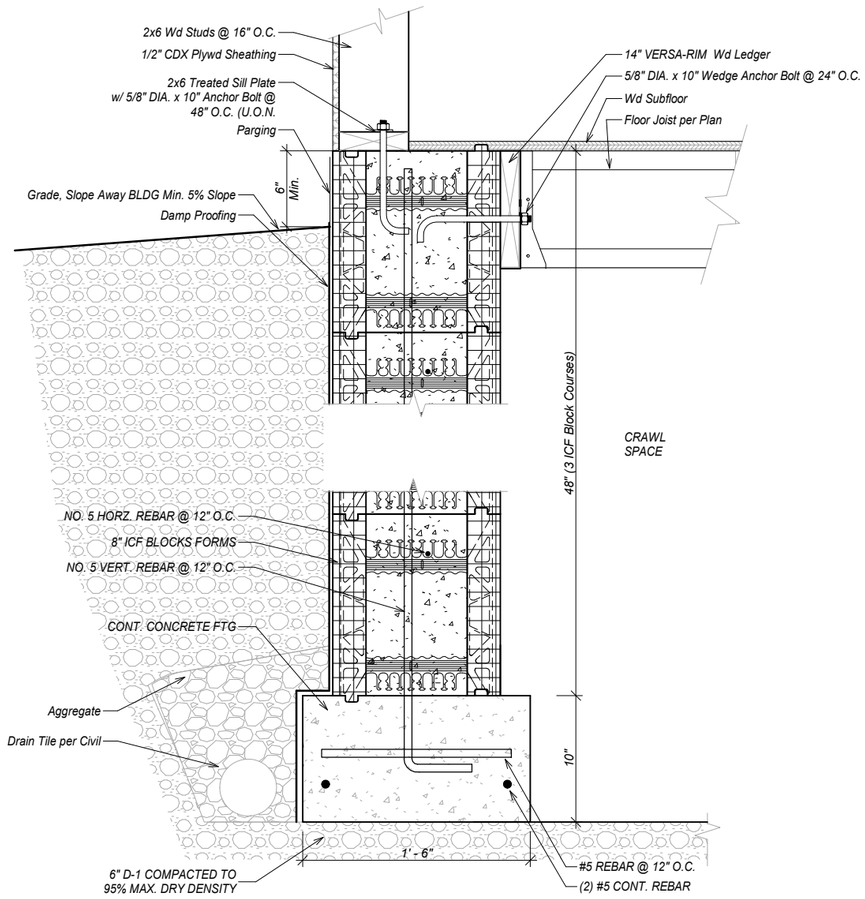
SHEET DESCRIPTION:
Roof Framing Plan

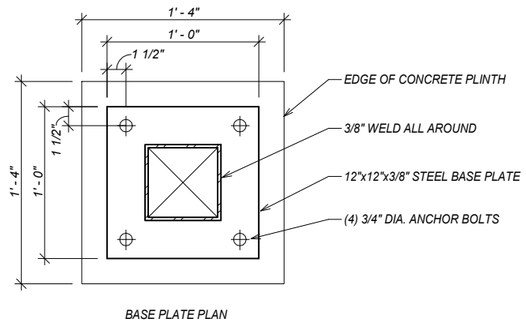
S203

SHEET:
35 of xx

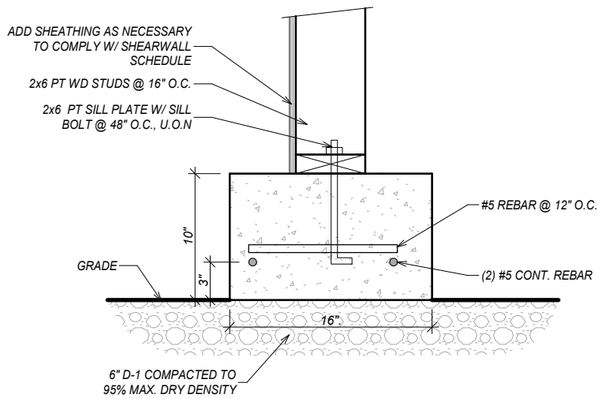


1 Typ. FND Detail

1" = 1'-0"

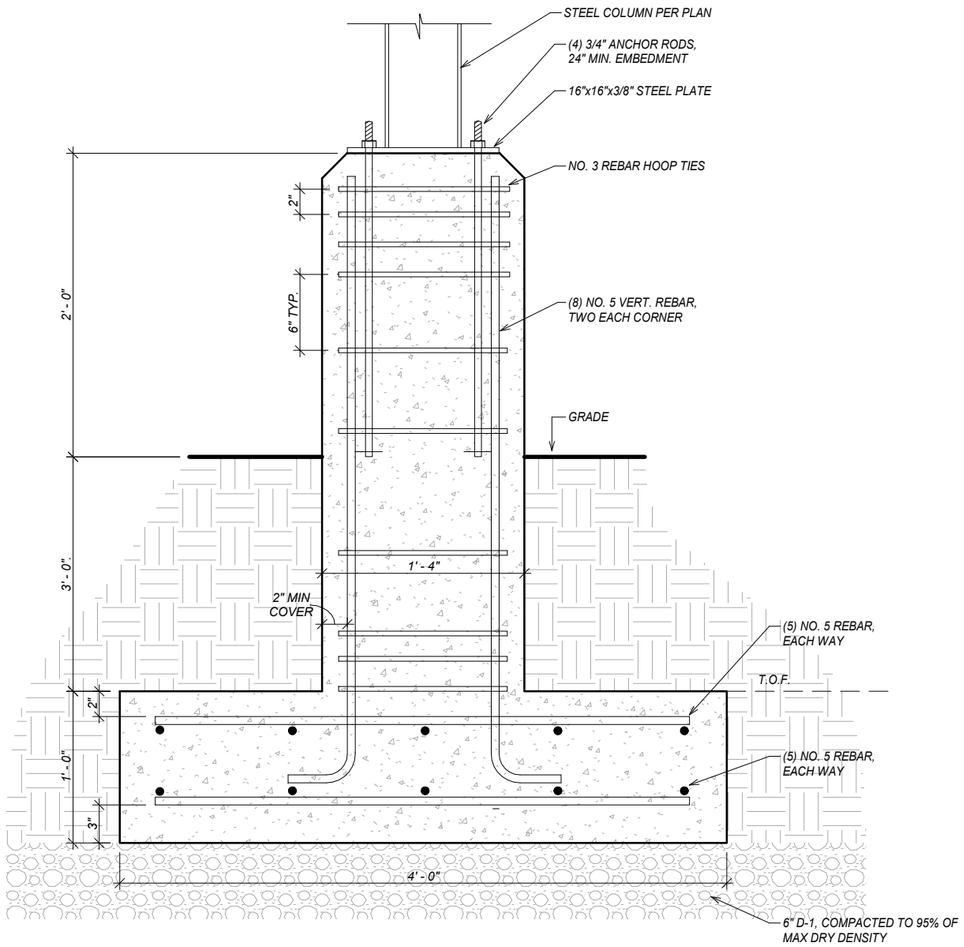


BASE PLATE PLAN



2 Typ. Pony Wall Detail

1" = 1'-0"



3 Typ. Column Base Detail

1" = 1'-0"

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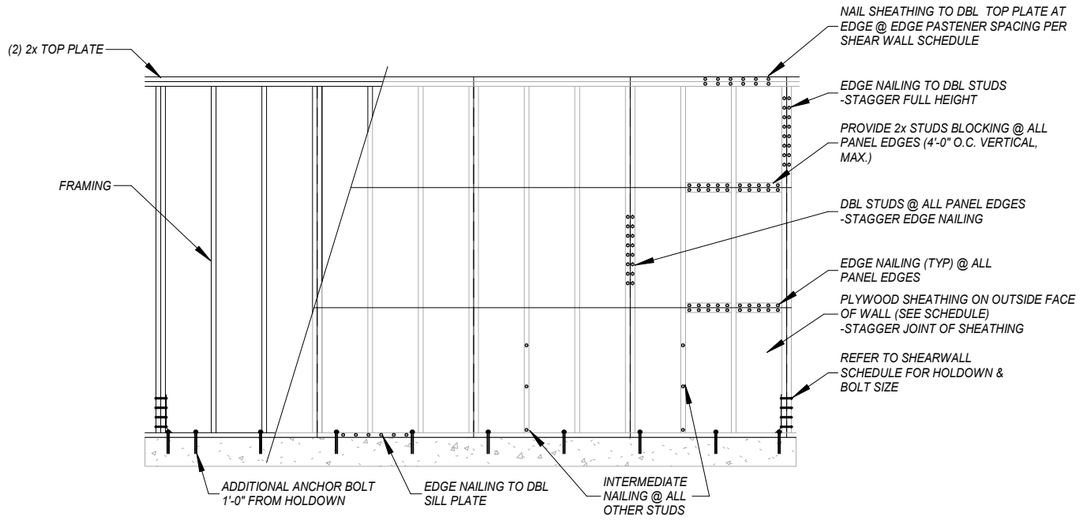
SHEET DESCRIPTION:
Structural Details

S300

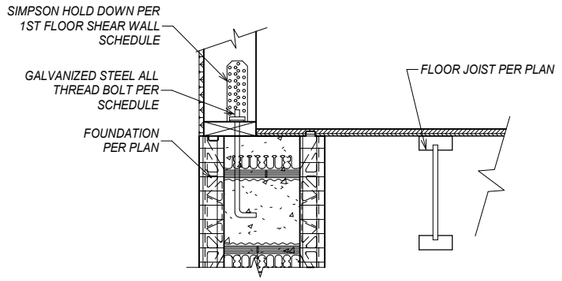
SHEET:
36 *of* **xx**



1. EXTERIOR PLYWOOD SHEATHING SHALL BE APA RATED, STRUCTURAL 1.
2. SEE SHEARWALL SCHEDULE FOR FASTENER SPACING REQUIREMENTS.
3. STRUCTURAL PLYWOOD APA RATED SHEATHING PERMITTED TO BE APPLIED EITHER PARALLEL OR PERPENDICULAR TO FRAMING, STAGGER JOINT OF SHEATHING.
4. FACE NAIL DOUBLE STUDS 16d AT 6" O.C. FOR SHEAR TRANSFER BETWEEN PANELS.
5. ANCHOR BOLT FOR SILL PLATE TO BE 5/8" SIMPSON AT MIN. EMBEDMENT 7" AT 2 FOOT CENTERS, ANCHOR BOLTS TO BE SPACED AT 4 FOOT CENTERS AT NON-SHEARWALL LOCATIONS.

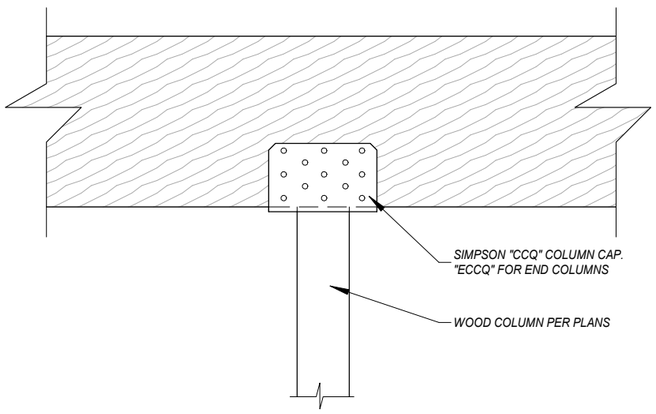
1 Shearwall Detail

1/4" = 1'-0"



2 Typ. Shearwall Holddown Detail

3/4" = 1'-0"



3 Typ. Column to Beam Detail

3/4" = 1'-0"

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SHEET DESCRIPTION:
Structural Details

S301

SHEET:
37 of xx

MECHANICAL SYMBOL LEGEND

PIPING SYMBOLS

SYMBOL	ABBR.	DESCRIPTION
———	W	WASTE
- - - - -	V	VENT
—— – ——	CW	COLD WATER
—— – – ——	HW	HOT WATER
—— – – – ——	HWC	HOT WATER RECIRCULATION
- -GHR- -	GHR	GLYCOL HEATING RETURN
——GHS——	GHS	GLYCOL HEATING SUPPLY
- -SMR- -	SMR	SNOW MELT RETURN
——SMS——	SMS	SNOW MELT SUPPLY
——G——	G	LOW PRESSURE GAS
		DEEP SEAL TRAP
		PIPE ELBOW DOWN
		PIPE ELBOW UP
		UNION
	GV/SOV	GATE VALVE/SHUT-OFF VALVE
		PLUG VALVE
		GAS COCK
		GLOBE VALVE
	MOV	MOTOR OPERATED VALVE 2-WAY
	MOV	MOTOR OPERATED VALVE 3-WAY
	PRV	PRESSURE REDUCING VALVE
	RV	RELIEF VALVE
	CV	CHECK VALVE
		BALL VALVE (FULL PORT)
		STRAINER
		THERMOMETER
		PRESSURE GAUGE W/ISO. VALVE
		SOLENOID VALVE
	BV	BALANCING VALVE
		BUTTERFLY VALVE
		FLEX CONNECTION
□Y	WHA	WATER HAMER ARRESTER (Y=SIZE)
		AUTOMATIC FLOW CONTROL
	CO	CLEAN-OUT
	WCO	WALL CLEAN-OUT
⊗	FCO	FLOOR CLEAN-OUT
◉	FD	FLOOR DRAIN
		PIPE ANCHOR
		PIPE GUIDE

HVAC SYMBOLS

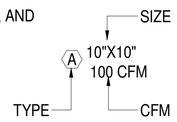
SYMBOL	ABBR.	DESCRIPTION
		NEW DUCTWORK
	S.L.	ACOUSTICALLY LINED DUCT
		THERMALLY INSULATED DUCT
UP		DUCTWORK UP
DN		DUCTWORK DOWN
		TURNING VANES
		AIR EXTRACTOR
	S/A	SUPPLY REG., GRILLE OR DIFFUSER
	R/A	RETURN/EXHAUST REG. OR GRILLE
		SUPPLY
		RETURN OR EXHAUST
		SUPPLY AIR SLOT WITH FLEX DUCT
		RETURN AIR SLOT
		FLEXIBLE DUCT
		FLEXIBLE CONNECTION
VD	VD,BD	VOLUME DAMPER
FD	FD	FIRE DAMPER
FS	FSD	FIRE/SMOKE DAMPER
D	MOD	MOTOR OPERATED DAMPER
20"X12"		DUCT SIZE
	HC	HEATING COIL
	S/A	SUPPLY AIR
	R/A	RETURN/RELIEF AIR
	E/A	EXHAUST AIR
	O/A	OUTSIDE AIR
DD	DD	DUCT DETECTOR
		ACCESS PANEL
T T	T'STAT	THERMOSTAT,& W/INS. BASE
SP		STATIC PRESSURE SENSOR
S		SWITCH

ABBREVIATIONS

ABBR.	DESCRIPTION
EAT	ENTERING AIR TEMPERATURE
LAT	LEAVING AIR TEMPERATURE
EWT	ENTERING WATER (GLYCOL) TEMP.
LWT	LEAVING WATER (GLYCOL) TEMP.
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BDD	BACK DRAFT DAMPER
BG	BELOW GRADE
SS	STAINLESS STEEL
TP	TRAP PRIMER
VTR	VENT THRU ROOF
OADB	OUTSIDE AIR DRY BULB
AAV	AUTOMATIC AIR VENT

DIFFUSER KEY

DIFFUSERS, GRILLES, AND REGISTERS SYMBOL:



SYMBOLS DO NOT NECESSARILY APPEAR ON PLANS IN SAME SIZE AND PROPORTION AS SHOWN HERE.

PLANS DO NOT NECESSARILY USE ALL OF THE SYMBOLS SHOWN HERE.

MECHANICAL SPECIFICATIONS

GENERAL:

1. THESE DRAWINGS ARE DIAGRAMATICAL IN NATURE AND DO NOT SHOW ALL FITTINGS AND/OR ACCESSORIES NECESSARY FOR A COMPLETE, FUNCTIONAL AND COORDINATED INSTALLATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THEIR WORK WITH OTHER TRADES AND WITH FIELD CONDITIONS.
2. ALL PLUMBING PIPING SHALL BE PER THE UNIFORM PLUMBING CODE, 2021 EDITION AND ALL LOCAL AMENDMENTS.
3. ALL MECHANICAL WORK SHALL BE PER THE INTERNATIONAL MECHANICAL CODE, 2021 EDITION AND ALL LOCAL AMENDMENTS.
4. ALL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION (FIRE BARRIERS, SHAFTS AND HORIZONTAL ASSEMBLIES) MUST COMPLY WITH INTERNATIONA BUILDING CODE, 2021 EDITION.
5. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND FEES.
6. THE CONTRACTOR SHALL PROVIDE SUBMITTAL DATA ON ALL MECHANICAL SYSTEMS. THIS INFORMATION SHALL BE BOUND IN A THREE RING BINDER, PROPERLY MARKED AND TAGGED. DATA SUBMITTED SHALL BE COMPLETE AND SUBMITTED AT ONE TIME AS PARTIAL SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. SUBMITTALS SHALL BE CLEARLY MARKED TO INDICATE EXACT ITEM TO BE SUPPLIED.
7. NO SUBSTITUTION OF MATERIALS WILL BE ALLOWED WITHOUT OWNERS APPROVAL.
8. AT THE END OF THE PROJECT PROVIDE THE OWNER WITH THREE COPIES OF AN OPERATION AND MAINTENANCE MANUAL ASSEMBLED SPECIFICALLY FOR THIS PROJECT FOR ALL MECHANICAL EQUIPMENT FURNISHED UNDER THIS CONTRACT. INFORMATION SHALL BE COMPLETE AND SHALL PROVIDE SPECIFICATION, OPERATION AND MAINTENANCE INFORMATION, WARRANTY INFORMATION, AS WELL AS SOURCES OF REPLACEMENT PARTS.
9. PROVIDE A COMPLETE SET OF AS-BUILT DRAWING AT THE END OF THE PROJECT, DRAWINGS SHALL SHOW ALL CHANGES MADE TO THE PROJECT DURING CONSTRUCTION. AS-BUILT OF CONTROL DRAWINGS SHALL ALSO BE INCLUDED.
10. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE FREE FROM DEFECTS FOR A PERIOD ON ONE YEAR AFTER ACCEPTANCE OF THE PROJECT BY THE OWNER. THIS SHALL INCLUDE MATERIALS, EQUIPMENT AND WORKMANSHIP. ALL DEFECTS SHALL BE REPLACED OR REPAIRED TO THE OWNERS SATISFACTION.
11. PROVIDE MANUFACTURERS RECOMMENDED CLEARANCE AND ACCESS TO ALL EQUIPMENT.
12. ALL PIPING, DUCT WORK, AND EQUIPMENT SHALL BE SEISMICALLY RESTRAINED IN ACCORDANCE WITH THE SMACNA SEISMIC RESTRAINT MANUAL FOR MECHANICAL SYSTEMS.

SHEET METAL:

1. DUCTWORK SHALL BE FABRICATED SHEET METAL AND INSTALLED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
2. DIMENSIONS SHOWN FOR DUCTWORK ARE THE INSIDE CLEAR DIMENSIONS. CONTRACTOR SHALL ADD TO THE DUCT ALLOWANCES FOR SOUND LINING.
3. PAINT INTERIOR OF ALL DUCTWORK VISIBLE THROUGH GRILLES, REGISTERS AND DIFFUSERS FLAT BLACK. FLEX DUCT SHALL ONLY BE USED AT DIFFUSER CONNECTIONS AND SHALL BE THE SAME DIAMETER AS THE DIFFUSER NECK.
4. FLEX DUCT LENGTH SHALL NOT EXCEED 5 FEET, AND SHALL NOT BE INSTALLED WITH MORE THAN ONE (1) 90° FULL RADIUS BEND.

PIPING:

1. DOMESTIC HOT AND COLD WATER PIPING SHALL BE TYPE "L" HARD DRAWN COPPER TUBING, WROUGHT SOLDER TYPE FITTINGS, 95/5 TIN-ANTIMONY OR LEAD FREE SILVER BEARING SOLDER. PROVIDE WATER HAMMER ARRESTORS FOR ALL BATTERIES OF FIXTURES. PEX TUBING MAY BE USED WHERE ALLOWED BY CODE.
2. WASTE, AND VENT PIPE SHALL BE "ABS" PIPING WITH DRAIN, WASTE & VENT FITTINGS AND SHALL BE INSTALLED AND TESTED PER THE REQUIREMENTS OF THE LATEST ADOPTED EDITION OF THE UNIFORM PLUMBING CODE. REUSE EXISTING ROOF OPENINGS WHERE EVER POSSIBLE.
3. PROVIDE BACKFLOW PREVENTERS WHERE REQUIRED BY THE UPC AND OR THE LOCAL AUTHORITIES.
4. VALVES FOR PLUMBING SYSTEMS SHALL BE BALL VALVES. PROVIDE ISOLATION VALVES FOR EACH FIXTURE BATTERY AND WHERE INDICATED ON DRAWINGS.

PLUMBING:

1. PLUMBING FIXTURES SHALL BE COMMERCIAL GRADE COMPLETE WITH ALL TRIM. FOR FIXTURE MANUFACTURER, MODEL ETC, SEE THE PLUMBING FIXTURE SCHEDULE.
2. PLUMBING EQUIPMENT SHALL BE COMMERCIAL GRADE COMPLETE WITH ALL SAFETIES AND TRIM. FOR INFORMATION ON MODEL ETC., SEE EQUIPMENT SCHEDULES.

HEATING:

1. HEATING EQUIPMENT SHALL BE COMMERCIAL GRADE COMPLETE WITH ALL SAFETIES AND TRIM. FOR INFORMATION ON MODEL ETC., SEE EQUIPMENT SCHEDULES.

INSULATION:

1. INSULATE ALL COLD PIPES WITH 1" FIBERGLASS INSULATION, WITH VAPOR BARRIER JACKET. (FIBERGLASS 25ASJ/SSL-II).
2. INSULATE ALL HOT PIPES, UP TO 2", WITH 1" FIBERGLASS INSULATION, PIPES 2-1/2" OR LARGER, INSULATE WITH 1-1/2" FIBERGLASS INSULATION. (FIBERGLASS 25ASJ/SSL-II).
3. INSULATE EXHAUST DUCT WORK FROM FAN TO THE EXTERIOR.
4. 2" INSULATION ON ALL OSA, AND RELIEF AIR DUCTWORK.
5. INSULATE ALL ABS & PVC PIPING IN CEILING PLENUM WITH 1" FIBERGLASS INSULATION (FIBERGLASS 25ASJ/SSL-II).

CONTROLS:

1. THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL CONTROL SYSTEM AS REQUIRED.

BALANCING:

1. BALANCE HVAC & PLUMBING SYSTEMS USING NATIONAL ENVIROMENTAL BALANCING BUREAU (NEBB) RECOMMENDED PROCEDURES.

REVISIONS:

THRHA - Craig Senior Center

STATUS:
CONSTRUCTION DOCUMENTS

DRAWN BY: BKS
CHECKED BY: TWS
DATE: 02/05/24
PROJECT #: 23912

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REGISTERED PROFESSIONAL ENGINEER
02/05/24

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PMB 370
PALMER, AK 99645
AECC 734

SHEET DESCRIPTION:
LEGENDS, ABBREVIATIONS & SCHEDULES

M101

SHEET:
of **XXX**

FIXTURE CONECTION SCHEDULE

TAG	FIXTURE	WASTE SIZE	VENT SIZE	HW SIZE	CW SIZE	REMARKS (1)
P1-1	WATER CLOSET "ADA"	3"	2"	----	1/2"	FLOOR MOUNTED TANK TYPE WATER CLOSET WITH TRIM
P3-1	LAVATORY "ADA"	1-1/2"	1-1/2"	1/2"	1/2"	COUNTER SET LAVATORY WITH FAUCET AND TRIM. "ADA" APPROVED (2)
P4-1	KITCHEN SINK "ADA"	2"	1-1/2"	1/2"	1/2"	COUNTER SET TWO COMPARTMENT SINK WITH FAUCET AND TRIM "ADA" APPROVED
P5-1	SHOWER & TUB "ADA"	2"	1-1/2"	1/2"	1/2"	COMBINATION TUB & SHOWER, HEAD, VALVE DRAIN & ALL REQUIRED TRIM. "ADA"
P5-2	WASHER BOX	2"	2"	1/2"	1/2"	GUY GRAY WASHER BOX WITH ALL REQUIRED TRIM
FD-1	FLOOR DRAIN	2"	1-1/2"	----	---	J.R. SMITH FLOOR DRAIN WITH TRAP PRIMER.

(1) PLUMBING FIXTURES TO BE SELECTED BY ARCHITECT AND OWNER.

(2) PROVIDE WITH ASSE 1070 POINT OF USE VALVE.

FAN SCHEDULE

TAG	LOCATION	SCFM	RPM	E.S.P.	TYPE	NOM. SIZE	USE	DISC.	MOTOR HP /VOLTS/ PH	REMARKS
EF-1	BATH ROOM	50	----	0.125"	CENTR.	----	E/A	HORIZ.	FR/120/1	PANASONIC "FV0511Vk2" WITH TRIM (1)

(1) FURNISH WITH SPEED CONTROLLER, BACKFRAFT DAMPER, TIME DELAY WALL SWITCH AND WALL OR ROOF CAP.

EQUIPMENT SCHEDULE

HP-1A & 1B

HEAT PUMP INDOOR UNIT (HP-1A): MITSUBISHI FLOOR MOUNTED HEATING & COOLING UNIT MODEL "MFZ-KJ09NA". 9,000 BTU/H COOLING, 11,000BTU/H HEATING. FURNISH COMPLETE WITH ALL REQUIRED TRIM TO INCLUDE BUT NOT LIMITED TO REQUIRED CONTROLS AND SAFETIES. 208/60/1. INDOOR UNIT POWERED BY THE OUTDOOR UNIT.

HEAT PUMP OUTDOOR UNIT (HP-1B): MITSUBISHI OUTDOOR UNIT MODEL "MUFZ-KJ09NAHZ". FURNISH COMPLETE WITH ALL REQUIRED TRIM TO INCLUDE BUT NOT LIMITED TO REQUIRED CONTROLS AND SAFETIES. 208/60/1, MCA 11.0A, MOCP 15A. INDOOR UNIT POWERED BY THE OUTDOOR UNIT.

WH-1

WATER HEATER: RHEEM ELECTRIC TANK TYPE WATER HEATER MODEL "PROE50 T2 RH95". FIRST HOUR RATING 63 GPH, RECOVERY 21 GPH. 50 GALLON STORAGE. 4.5KW, 208/60/1

ELECTRIC HEATING SCHEDULE

TAG	DISCRIPTION	SCFM	KW	NOM. SIZE	MOTOR HP /VOLTS/ PH	REMARKS (1)
EBB-1	ELECTRIC BASEBOARD	----	0.5	----	----	KING ELECTRIC BASEBOARD HEATER MODEL "2K2005BW" . 0.5KW, 208/60/1. WITH ALL REQUIRED TRIM
EBB-2	ELECTRIC BASEBOARD	----	0.75	----	----	KING ELECTRIC BASEBOARD HEATER MODEL "3K2007BW" . 0.75KW, 208/60/1. WITH ALL REQUIRED TRIM
EBB-3	ELECTRIC BASEBOARD	----	1.0	----	----	KING ELECTRIC BASEBOARD HEATER MODEL "4K2010BW" . 1.0KW, 208/60/1. WITH ALL REQUIRED TRIM

(1) FURNISH COMPLETE WITH ALL REQUIRED TRIM.

REVISIONS:

THRHA - Craig Senior Center

STATUS:

CONSTRUCTION DOCUMENTS

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CHECKED BY: TWS
DATE: 02/05/24
PROJECT #: 23912

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AECC 734

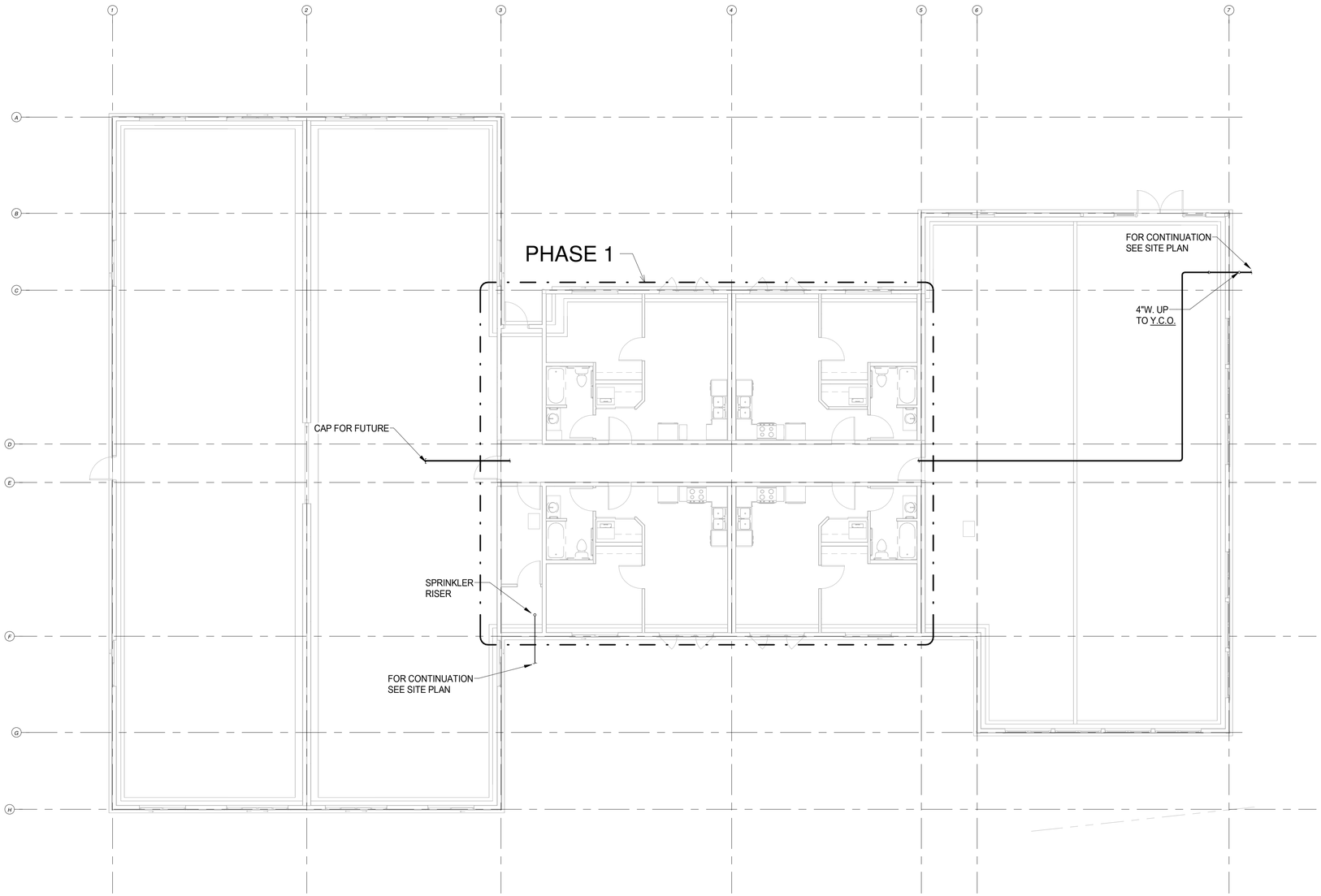
SHEET DESCRIPTION:

MECHANICAL SCHEDULES

M102

SHEET:

of **XXX**



1 Underfloor Plumbing Reference Plan
1/8" = 1'-0"

REVISIONS:

THRHA - Craig Senior Center

STATUS:

CONSTRUCTION DOCUMENTS

DRAWN BY: Author
CHECKED BY: Checker
DATE: 02/05/24
PROJECT #: 23912

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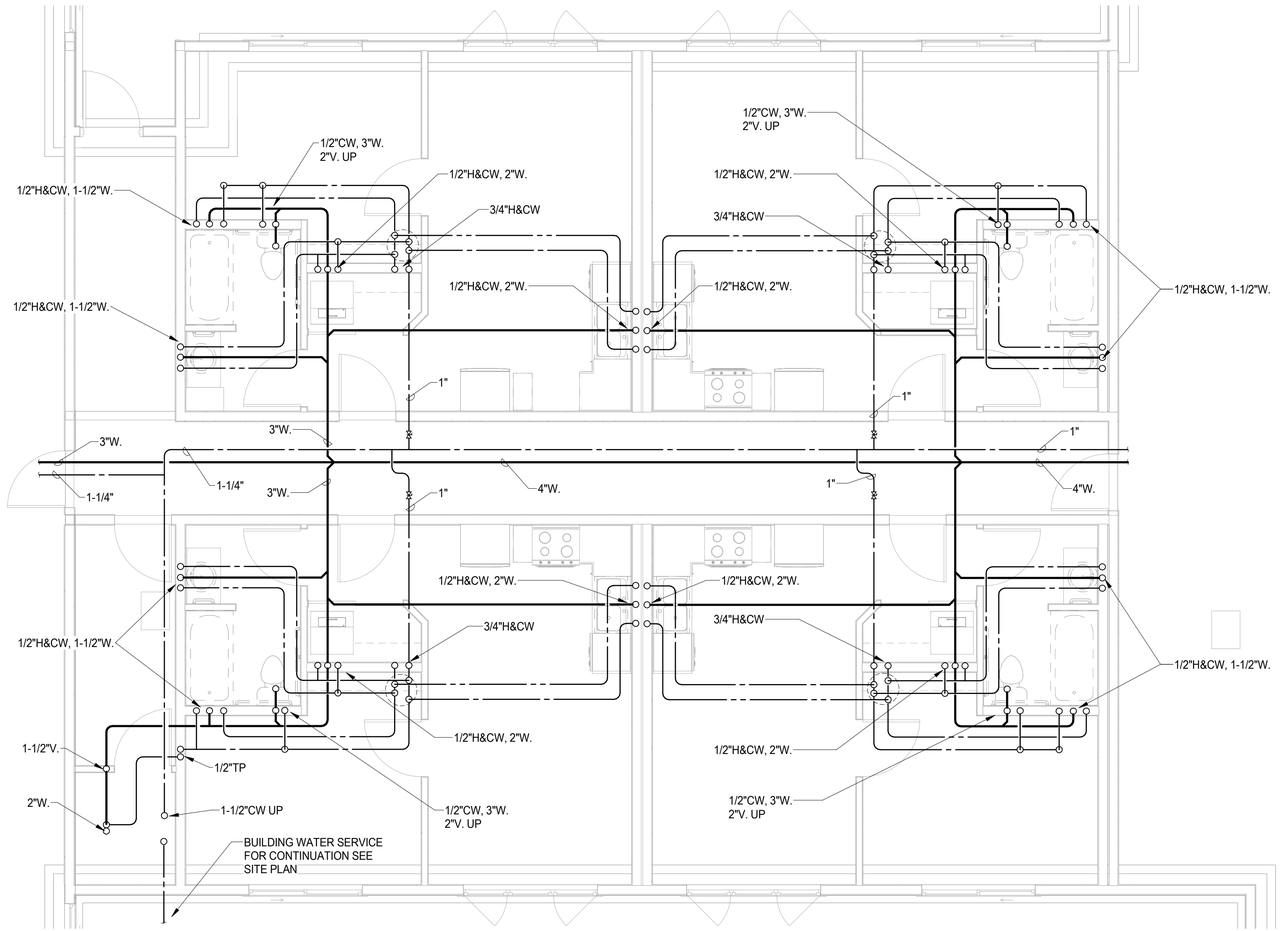
AECC 734

SHEET DESCRIPTION:
Underfloor Plumbing Reference Plan

M200

SHEET:
of **XXX**



1 Underfloor Plumbing Partial Plan - Phase 1

1/4" = 1'-0"

REVISIONS:

THRHA - Craig Senior Center

STATUS:

CONSTRUCTION DOCUMENTS

DRAWN BY: BKS
CHECKED BY: TWS
DATE: 02/05/24
PROJECT #: 23912

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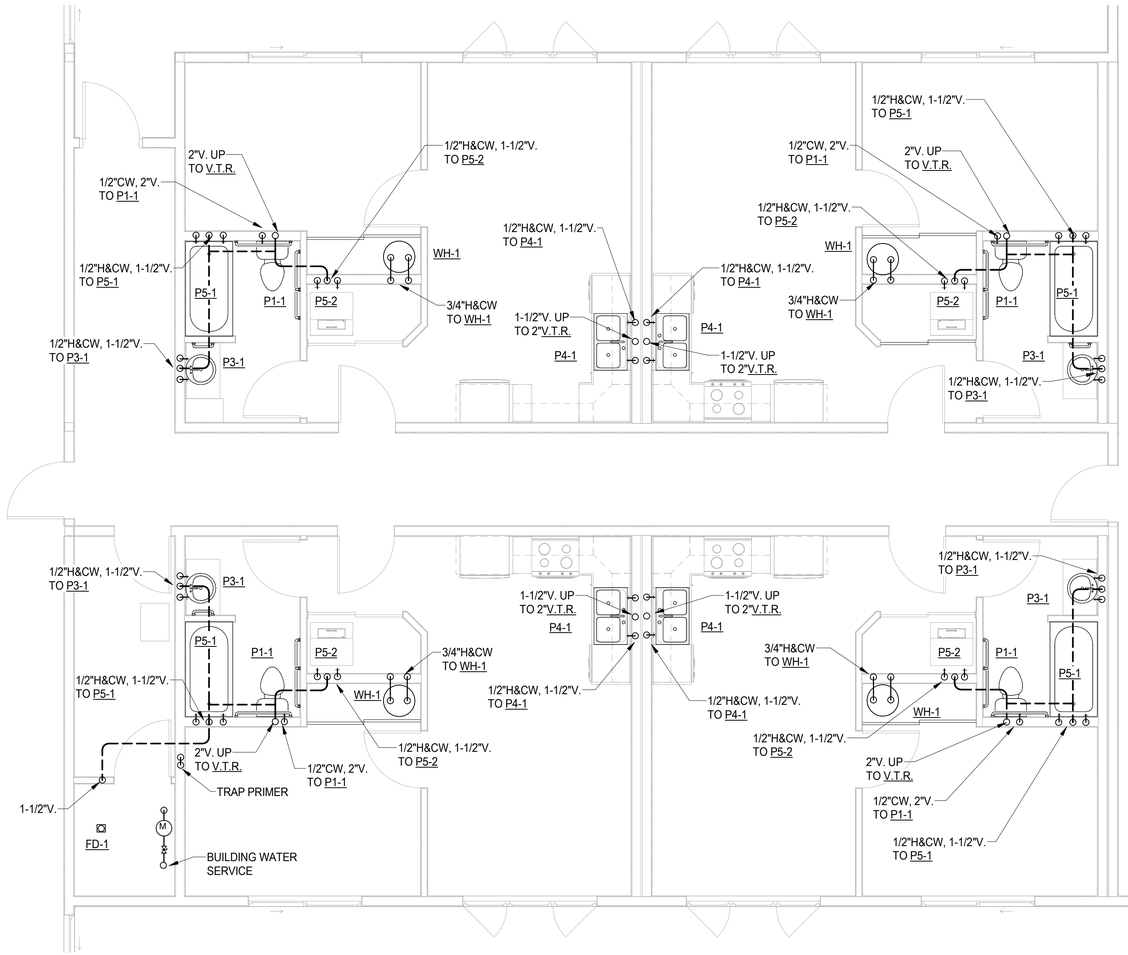
SHEET DESCRIPTION:
Underfloor Plumbing Plan - Phase 1

M201

SHEET:

of **XXX**



1 Plumbing Partial Plan - Phase 1

1/4" = 1'-0"

REVISIONS:

THRHA - Craig Senior Center

STATUS:

CONSTRUCTION DOCUMENTS

DRAWN BY: Author
CHECKED BY: Checker
DATE: 02/05/24
PROJECT #: 23912

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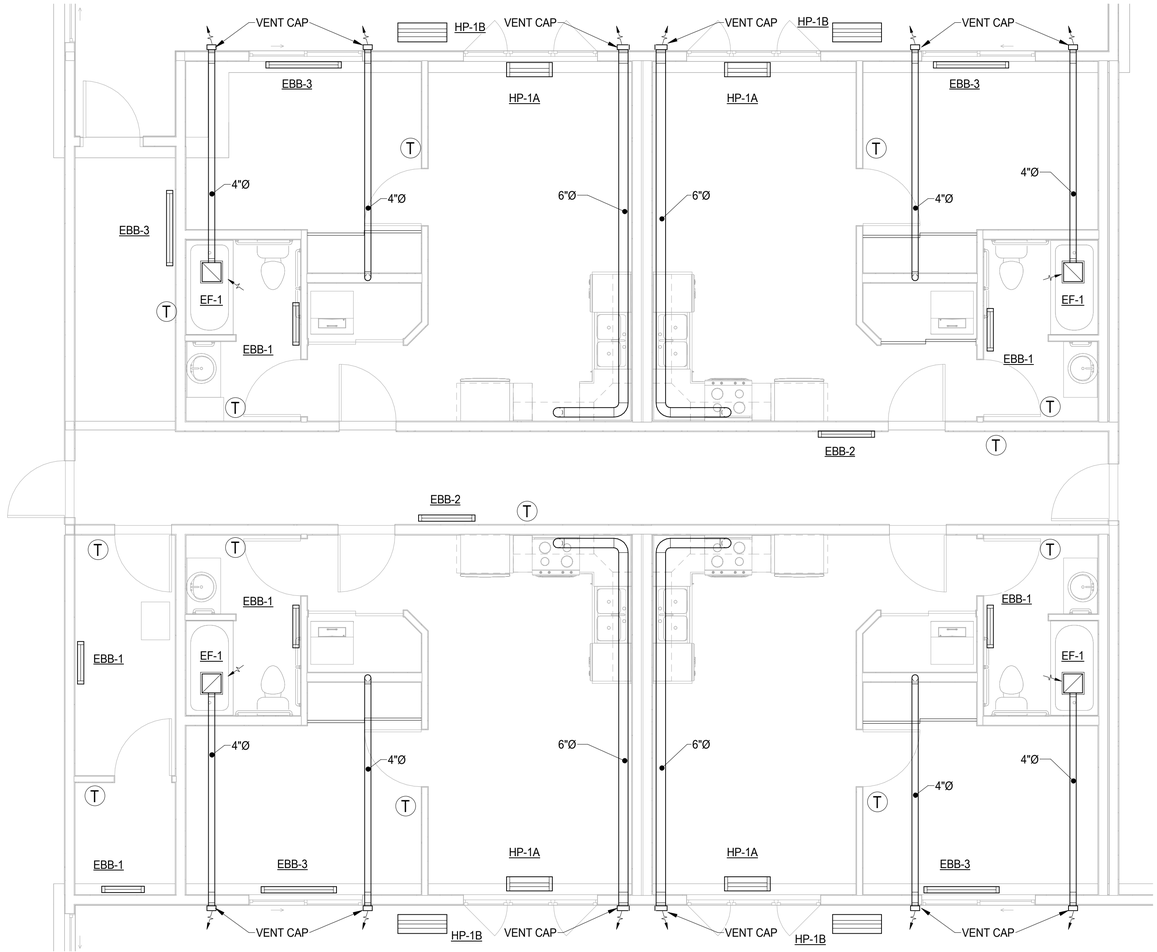
AECC 734

SHEET DESCRIPTION:
Plumbing Partial Plan - Phase 1

M202

SHEET:
of **XXX**



1 HVAC Partial Plan - Phase 1

1/4" = 1'-0"

REVISIONS:

THRHA - Craig Senior Center

STATUS:

CONSTRUCTION DOCUMENTS

DRAWN BY: Author
CHECKED BY: Checker
DATE: 02/05/24
PROJECT #: 23912

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AECC 734

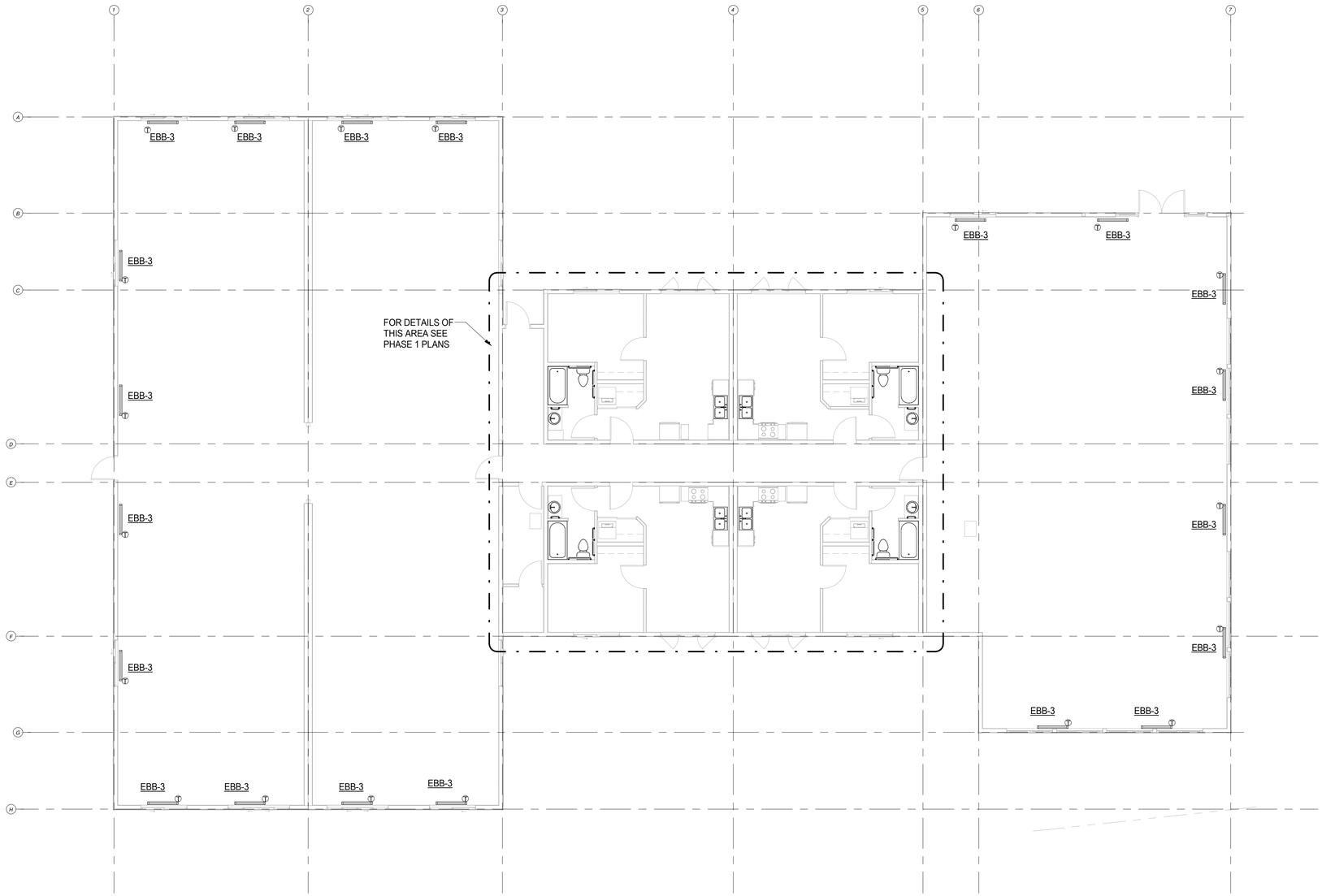
SHEET DESCRIPTION:

HVAC Partial Plan Phase 1

M301

SHEET:

of **XXX**



1 Main Level Overall Mechanical Plan
1/8" = 1'-0"

REVISIONS:

THRHA - Craig Senior Center

STATUS:

CONSTRUCTION DOCUMENTS

DRAWN BY: Author
CHECKED BY: Checker
DATE: 02/05/24
PROJECT #: 23912

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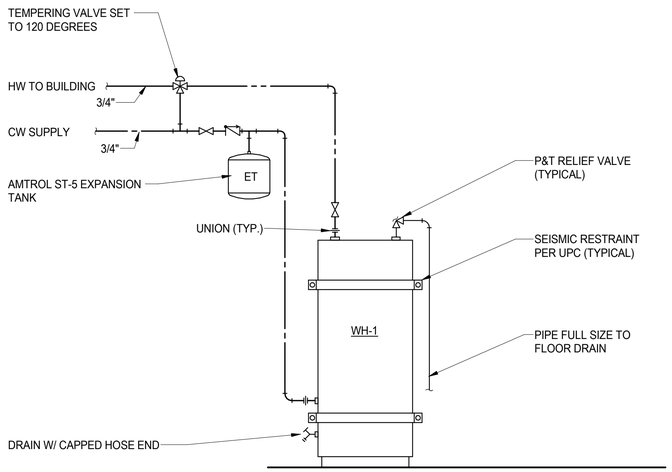
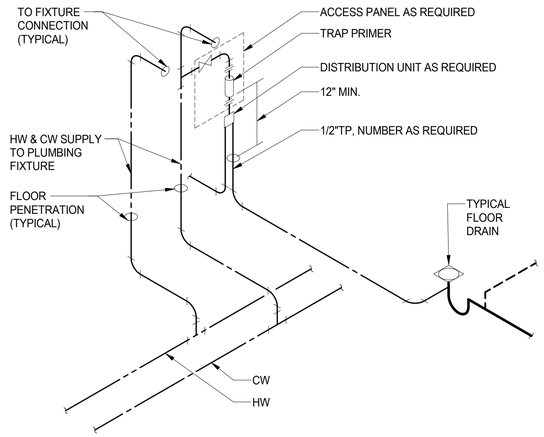
SHEET DESCRIPTION:
Overall HVAC Plan

M302

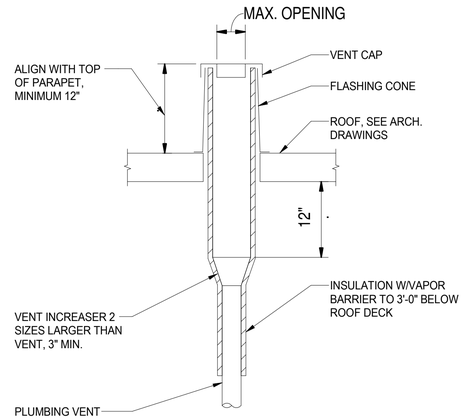
SHEET:
of **XXX**



1 WATER HEATER DETAIL
12" = 1'-0"



2 AUTOMATIC TRAP PRIMER DETAIL
12" = 1'-0"



3 VENT THRU ROOF DETAIL
12" = 1'-0"

REVISIONS:

THRHA - Craig Senior Center

STATUS:

CONSTRUCTION DOCUMENTS

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PMB 370
PALMER, AK 99645
AECC 734

SHEET DESCRIPTION:

MECHANICAL DETAILS

M801

SHEET:

of **XXX**

THIS SHEET IS FULL SIZE AT 34"x22" 1" ACTUAL

ELECTRICAL SPECIFICATIONS

"X" = PROVIDE SUBMITTAL

26 00 00 - GENERAL REQUIREMENTS: ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (NEC), STATE, MUNICIPAL, FEDERAL LAWS, AND AMENDMENTS GOVERNING THE PROJECT. ALL WORK SHALL BE PERFORMED UNDER THE SUPERVISION OF A CERTIFIED ADMINISTRATOR JOURNEYMAN ELECTRICIAN.

ALL ELECTRICAL EQUIPMENT SHALL BE NEW COMMERCIAL GRADE AND INCLUDE THE SEAL OF A NATIONALLY RECOGNIZED TESTING LABORATORY FOR THE PURPOSE IT IS INSTALLED AS A COMPLETE ASSEMBLY. THE CONTRACTOR SHALL SUBMIT A REQUEST FOR ANY SUBSTITUTION OR DEVIATION FROM THE DESIGN IN WRITING TO THE ENGINEER. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED CONSTRUCTION PERMITS, SCHEDULE INSPECTIONS, AND PAY ALL ASSOCIATED FEES UNLESS DIRECTED OTHERWISE.

WORKING CLEARANCES: THE CONTRACTOR IS REQUIRED TO COORDINATE THE MINIMUM WORKING CLEARANCES AND DEDICATED EQUIPMENT REQUIRED BY THE NEC. THE CONTRACTOR IS REQUIRED TO COORDINATE WITH ALL SUBCONTRACTORS SO THAT ENCROACHMENTS INTO THE RESTRICTED SPACE ARE PREVENTED.

PROVIDE ALL CUTTING, CORING, AND PATCHING REQUIRED FOR ELECTRICAL INSTALLATION. REGISTERED STRUCTURAL ENGINEER APPROVAL IS REQUIRED WHEN CORING OR CUTTING OF STRUCTURAL MEMBERS IS REQUIRED.

PLENUM RATING: ALL CABLING, RACEWAYS, CABLE TIES AND COMPONENTS LOCATED IN CEILING SPACES THAT ARE PLENUMS SHALL BE PLENUM RATED.

COORDINATE WITH ARCHITECTURAL PLANS, SHOP DRAWINGS, AND OTHER TRADES PRIOR ROUGH-IN FOR FOR DEVICE AND EQUIPMENT LOCATIONS AND REQUIREMENTS.

BARRIER RATINGS: ALL ELECTRICAL PENETRATIONS THROUGH FIRE RATED BARRIERS SHALL BE SEALED IN ACCORDANCE WITH NEC ARTICLE 300.21. PROVIDE FIRE PUTTY OR SHEET ROCK CONFIGURED FOR UL FIRE RATING WRAPPING ALL BOXES AND PANELS MATCHING WALL AND CEILING FIRE RATING. CONTRACTOR TO PROVIDE SUBMITTAL OF ALL FIRE RATING SYSTEMS TO BE USED. VAPOR BARRIERS: SEAL ALL VAPOR BARRIER PENETRATIONS TO MAINTAIN SYSTEM INTEGRITY. RACEWAYS EXPOSED TO DIFFERENT TEMPERATURES SHALL BE FILLED WITH AN APPROVED MATERIAL IN ACCORDANCE WITH NEC TO STOP AIR FLOW..

ACCESS PANELS: PROVIDE ACCESS PANELS FOR ALL LOCATIONS NECESSARY TO ACCESS ELECTRICAL EQUIPMENT AND JUNCTION BOXES. ACCESS PANELS SHALL BE FIRE RATED EQUAL TO OR EXCEEDING THE ADJACENT WALL OR CEILING CONSTRUCTION AND PAINTED TO MATCH.

ELECTRICAL DEVICES SHOWN ON THE PLANS AS EXISTING ARE TO BE REPLACED WITH NEW DEVICES AND DEVICE PLATES TO MATCH THE NEW WORK.

26 01 10 - SUBMITTALS: PROVIDE MATERIAL AND EQUIPMENT SUBMITTAL FOR EACH SPECIFICATION SECTION DENOTED AS REQUIRED AT MINIMUM. SUBMITTALS SHALL BE SUBMITTED ELECTRONICALLY IN PDF FORMAT (UNLESS HARD COPY IS REQUIRED BY OTHER CONTRACT APPLYING TO THE ENTIRE PROJECT). SUBMIT ALL REQUIRED SECTIONS IN A SINGLE SUBMITTAL OR BROKEN INTO NO MORE THAN THE FOLLOWING SEPARATE SECTIONS: "LIGHTING", "EQUIPMENT", "WIRING/DEVICES", AND "SPECIAL SYSTEMS". ORGANIZE SUBMITTAL AND/OR EACH SECTION BY SPECIFICATION NUMBER FOLLOWED BY ANY MAJOR EQUIPMENT REFERENCE ON THE DRAWINGS WITH ALL OPTIONS AND SELECTIONS HIGHLIGHTED TO DENOTE THE SPECIFIC EQUIPMENT PROPOSED. SUBMITTAL REVIEW IS FOR GENERAL DESIGN AND CONFIGURATION AND DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING A COMPLETE OPERATIONAL SYSTEM COMPLIANT WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

26 01 21 - RECORD DRAWINGS: MARK UP A SET OF DRAWINGS (REDLINES) SHOWING ALL ELECTRICAL WORK. SHOW DIAGRAMMATIC ROUTING MODIFICATIONS, SIZING, AND CIRCUIT REVISIONS TO THE CONTRACT PLANS. RECORD DRAWINGS SHALL BE KEPT ON SITE AVAILABLE FOR REVIEW DURING THE ENTIRE CONSTRUCTION PERIOD. SUBMIT FINAL REDLINE SET FOR APPROVAL PRIOR TO FINAL INSPECTION.

26 01 22 - WARRANTY: THE CONTRACTOR SHALL GUARANTEE ALL WORK EXECUTED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM SUBSTANTIAL COMPLETION. ANY FAULTY MATERIALS OR WORKMANSHIP SHALL BE REPAIRED DURING THE GUARANTEE PERIOD AT NO ADDITIONAL COST TO THE OWNER.

26 05 15 - POWER AND LIGHTING CONDUCTORS: STRANDED COPPER ROUTED IN CONDUIT UNLESS NOTED OTHERWISE. INSULATION TO BE THHN-2 90 DEGREE C FOR INDOOR APPLICATIONS AND XHHW-2 90 DEGREE C FOR OUTDOOR LOCATIONS, IN UNHEATED SPACES, OR INSTALLED WHILE THE AMBIENT TEMPERATURE IS LESS THAN -7C (20F). ALL CONDUCTORS SHALL BE INSTALLED IN ACCORDANCE WITH NEC REQUIREMENTS FOR AMBIENT TEMPERATURE DERATING, CONDUIT FILL DERATING, AND BOX FILL. PROVIDE UNSHARED DEDICATED NEUTRAL FOR EACH CIRCUIT. BRANCH CIRCUIT WIRING MAY BE INSTALLED IN CABLES WHERE ROUTED CONCEALED AND SUPPORTED BY NEC REQUIREMENTS AND TYPE TYPE W OR EQUAL CORDS WHERE INSTALLED IN ACCORDANCE WITH THE NEC REQUIREMENTS SIZED AS DENOTED IN THE NEC TABLES 400.5(A)(2) AND 400.5(A)(3).

ELECTRICAL SPECIFICATIONS

"X" = PROVIDE SUBMITTAL

208V/120V CONDUCTORS: COLOR CODE CONDUCTORS BLACK, RED, BLUE, WHITE, AND GREEN. MINIMUM SIZE CONDUCTORS FOR 15 AND 20 AMP BRANCH CIRCUITS MEASURED FROM THE PANELBOARD TO THE FURTHEST DEVICE ON THE CIRCUIT UNLESS OTHERWISE NOTED ON THE DRAWINGS: 12 AWG UP TO 75 FT, 10 AWG 75 FT TO 140 FT, GREATER THAN 140 FT SIZE CONDUCTORS TO LIMIT VOLTAGE DROP TO 5% OR LESS.

26 05 19 - MC CABLES: METALCLAD (MC) CABLE WITH STEEL OUTER SHEATH. ALLOWED USES DRY WHERE ROUTED CONCEALED AND PROTECTED.

26 05 29 - HANGARS AND SUPPORTS FOR ELECTRICAL SYSTEMS: SUPPORT ALL ELECTRICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO, LIGHT FIXTURES, PANELBOARDS, BOXES, CONDUIT, ETC. PER NEC AND IBC SEISMIC REQUIREMENTS. PROVIDE SEISMIC SUPPORT AND DESIGN SEALED BY A LICENSED STRUCTURAL ENGINEER AS A DEFERRED SUBMITTAL TO THE AHJ FOR ALL EQUIPMENT OVER 400 LBS AND, EQUIPMENT OVER 20 LBS MOUNTED GREATER THAN 4FT AFF, CONDUIT 2.5"C OR GREATER AND ALL TRAPEZE OR WALL SUPPORTED RACEWAY 10 LBS/LF OR GREATER. SUPPORT STRUT AND MOUNTING HARDWARE TO BE GALVANIZED

26 05 30 - RACEWAY: ALL POWER, LIGHTING, CLASS 1, CLASS 2/3 CIRCUITS INSTALLED IN CONDUIT SHALL BE CONCEALED RACEWAY EXCEPT WHERE SPECIFICALLY INDICATED ELSEWHERE IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS. ELECTRICAL EQUIPMENT AND WIRING CAN BE EXPOSED IN MECHANICAL/ELECTRICAL ROOMS, COOLER/FREEZERS, TELECOMMUNICATION ROOMS, OPEN CEILING SPACES, OR WHERE SPECIFICALLY NOTED. DO NOT ROUTE RACEWAYS ON THE EXTERIOR SURFACE OF THE BUILDING OR THE ROOF UNLESS SPECIFICALLY NOTED OTHERWISE. RACEWAYS CROSSING BUILDING SEISMIC JOINTS OR CONNECTING TO EQUIPMENT WHICH MOVES OR VIBRATES REQUIRE TRANSITION TO FLEXIBLE RACEWAY ACROSS JOINT WITH ENOUGH SLACK TO ALLOW BUILDING MOVEMENT IN ALL DIRECTIONS WITHOUT DAMAGE.

26 05 33 – RIGID METAL CONDUIT (RMC): ANSI C80.1, UL 6. WITH BUSHINGS AT ALL TERMINATIONS. FITTINGS: GALVANIZED MALLEABLE IRON WITH THREADED HUBS FOR ALL CONDUIT ENTRIES AND COUPLINGS. SET SCREW OR RUNNING THREAD FITTINGS ARE NOT PERMITTED. USES: WET OR DRY WHERE INSTALLED BELOW GRADE, IN CONCRETE, STUB UPS, CONCEALED, WHERE EXPOSED TO PHYSICAL DAMAGE, ROUTED ON BUILDING ROOF, SERVICE RISERS, OR WITHIN 10FT OF RACEWAY ROUTED INTO FIXED FOUNDATIONS SUCH AS LIGHT POLE BASE OR STRUCTURE. MUST USE THREADED FITTINGS. MYERS HUBS WITH GROUNDING LOCKNUTS ARE REQUIRED FOR SERVICE RACEWAYS TO CT'S, METERS AND MAIN DISCONNECTS.

26 05 34 - ELECTRICAL METALLIC TUBING (EMT): ANSI C80.3, UL 797; GALVANIZED STEEL TUBING. FITTINGS: NEMA FB 1; GALVANIZED STEEL OR MALLEABLE IRON SET SCREW OR COMPRESSION. DIE CAST OR PRESSURE CAST FITTINGS OR LOCKNUTS ARE NOT PERMITTED. USES: WET OR DRY CONCEALED OR EXPOSED WHERE NOT SUBJECT TO PHYSICAL DAMAGE. WET OR DAMP LOCATIONS REQUIRE RAINTIGHT WET RATED GLAND COMPRESSION COUPLINGS AND CONNECTORS. NOT PERMITTED FOR SERVICE ENTRANCE RACEWAY, IN CONTACT WITH EARTH, OR IN CONTACT WITH CONCRETE.

26 05 35 - FLEXIBLE METAL CONDUIT (FMC): GALVANIZED OR ZINC COATED FLEXIBLE STEEL CONSTRUCTION. FMC FITTINGS: GALVANIZED MALLEABLE IRON OR STEEL WITH INSULATED THROATS. USES: DRY SPACES LENGTHS LESS THAN 6FT FOR CONNECTIONS TO MOTORS, TRANSFORMERS, AND OTHER MOVABLE OR VIBRATING EQUIPMENT.

LIQUIDTIGHT FLEXIBLE CONDUIT (LTMC): GALVANIZED OR ZINC COATED FLEXIBLE STEEL CONSTRUCTION WITH PVC OUTER JACKET. USES: DRY, DAMP, OR WET LOCATIONS LENGTHS LESS THAN 6FT FOR CONNECTIONS TO MOTORS, TRANSFORMERS, AND OTHER MOVABLE OR VIBRATING EQUIPMENT.

26 05 36 - WET OR DAMP LOCATIONS: USE DEVICES, FIXTURES, RACEWAYS, CONNECTORS, COUPLINGS, CABLES, ENCLOSURES, SUPPORTS, DEVICES, COVER PLATES, AND CONDUCTORS RATED FOR LOCATION INSTALLED.

26 05 40.1 - WET OR DAMP LOCATION BOXES AND FITTINGS: BOXES: WET RATED. FITTINGS: THREADED HUBS OR RAINTIGHT CONNECTORS FOR EMT. OUTLET BOXES SHALL BE CAST FERROUS WITH THREADED HUBS, NEMA 3R FOR EXTERIOR LOCATIONS, NEMA 4 FOR INTERIOR WET LOCATIONS. NEMA 4X FOR OUTDOOR WITHIN 1 MILE OF THE COASTLINE, CONTROL EQUIPMENT, AND INTERIOR/EXTERIOR WET LOCATIONS EXPOSED TO CORROSIVE ENVIRONMENT.

X 26 24 50 - SURGE PROTECTION DEVICE (SPD): UL1449 WITH INTEGRAL FUSE MOV TECHNOLOGY. DISTRIBUTION PANELS - 240KA, 5000 IMPULSES, 200,000 AMP. BRANCH CIRCUIT PANELS - 120KA, 5000 IMPULSES, 200,000 AMP UL LISTED SCCR. INSTALL ON ALL PANELS NOTED ON THE ONE-LINE DIAGRAM, ANY PANEL DOWNSTREAM OF GENERATOR TRANSFER SWITCH OR ANY PANEL LOCATED IN A DWELLING UNIT.

ELECTRICAL LEGEND

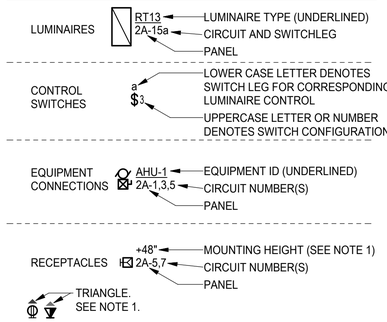
- EXTERIOR LIGHT FIXTURE, POLE MOUNTED, HEADS AS SHOWN
- PHOTOCELL CONTROL
- LUMINAIRE - TYPE AS NOTED ON PLAN - LINEWORK MAY VARY
- LUMINAIRE - WALL MOUNTED: TYPE AS NOTED ON PLAN
- EMERGENCY LIGHTING UNIT (WALL; CEILING; REMOTE HEAD)
- COMBINATION EMERGENCY LIGHTING UNIT/EXIT SIGN, SHADE DENOTES FACE
- OCCUPANCY SENSOR LIGHTING CONTROL
- $ SWITCH - SINGLE POLE, SINGLE THROW, UON
- $x SWITCH - SEE SWITCH LEGEND FOR TYPE
- METERING DEVICE
- POWER PANELBOARD
- MOTOR CONNECTION
- NON-FUSED SAFETY SWITCH / DISCONNECT
- FUSED SAFETY SWITCH / DISCONNECT
- ELECTRIC BASEBOARD HEATER
- JUNCTION BOX OR EQUIPMENT CONNECTION (CEILING; WALL; FLOOR)
- DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE - GFCI PROTECTED
- DUPLEX RECEPTACLE - GFCI PROTECTED, WEATHERPROOF, +24" UON
- DUPLEX RECEPTACLE - REMOTE GFCI PROTECTED
- SPECIAL RECEPTACLE - GFCI PROTECTED (VERIFY NEMA CONFIGURATION)
- SMOKE ALARM - MULTIPLE STATION 120VAC/9VDC

SWITCH LEGEND

3 (THREE WAY); 4 (FOUR WAY); B (THREE WAY DIMMER); C (TIMER); D (DIMMER); K (KEYED); L (LOW VOLTAGE); P (PILOT LIGHT); S (VARIABLE SPEED CONTROL); T (INTEGRAL MOTOR OVERLOAD)
-WALL SENSOR: 2 (DUAL CIRCUIT OCCUPANCY); D (DIMMING VACANCY SENSOR); O (OCCUPANCY SENSOR); V (VACANCY SENSOR)

- XXXX — DENOTES AVAILABLE FAULT CURRENT
- LINETYPE/LINEWEIGHT DENOTING FUTURE WORK
- LINETYPE/LINEWEIGHT DENOTING EXISTING WORK TO REMAIN
- LINETYPE/LINEWEIGHT DENOTING NEW WORK
- LINETYPE/LINEWEIGHT DENOTING NEW ONE-LINE CONNECTIONS
- LINETYPE/LINEWEIGHT DENOTING DEMO WORK
- LINETYPE/LINEWEIGHT DENOTING BELOW GRADE CONDUIT
- LINETYPE/LINEWEIGHT DENOTING CONTROL WIRING

EQUIPMENT TAG LEGEND



NOTE 1: DIMENSIONS (WHEN GIVEN ARE AFF). TRIANGLE DENOTES 46" AFF IN OPEN AREAS OR AT CASEWORK LOCATIONS TO BE 4" ABOVE COUNTERTOP (BACKSPLASH WHEN PRESENT). COORDINATE WITH ARCHITECTURE. THIS APPLIES TO ALL ELECTRICAL DEVICES.

ABBREVIATIONS	
INDUSTRY STANDARD ABBREVIATIONS SHALL ALSO BE APPLICABLE.	
Key Name	**FullWord**
(#)	DENOTES TYPICAL IN LIGHT FIXTURE TYPES
(D)	DEMOLISH
(E)	EXISTING
(R)	RELOCATED
AER	ARC ENERGY REDUCTION
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
BJ	BONDING JUMPER
CB	CIRCUIT BREAKER
CO, C.O.	CONDUIT ONLY
CT	CURRENT TRANSFORMER
CU	COPPER
EECP	ELEVATOR EMERGENCY COMMUNICATION PANEL
EECS	ELEVATOR EMERGENCY COMMUNICATION STATION
EGC	EQUIPMENT GROUNDING CONDUCTOR
FAA	FIRE ALARM ANNUCIATOR
FACP	FIRE ALARM CONTROL PANEL
FC	FOOTCANDLE ILLUMINATION
FHP	FRACTIONAL HORSEPOWER
FLA	FULL LOAD AMPS
FSD	FIRE SMOKE DAMPER
G, GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GEC	GROUNDING ELECTRODE CONDUCTOR
GES	GROUNDING ELECTRODE SYSTEM
GFPE	GROUND FAULT PROTECTION OF EQUIPMENT
MCA	MINIMUM CIRCUIT AMPACITY
MFS	MAXIMUM FUSE SIZE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT (NOT IN SCOPE)
NO	NORMALLY OPEN
P	POLES
PC	PHOTO CELL
PH, Ø	PHASE
PNL	PANEL
RIB	RELAY IN A BOX (MOTOR RATED)
SCA	SHORT CIRCUIT AMPS
SCCR	SHORT CIRCUIT CURRENT RATING
SE	SERVICE ENTRANCE RATED
SPD	SURGE PROTECTION DEVICE
SSBJ	SUPPLY SIDE BONDING JUMPER
SSEBJ	SUPPLY SIDE EQUIPMENT BONDING JUMPER
TGB	TELECOMMUNICATION GROUNDING BUSBAR
TMGB	TELECOMMUNICATION MAIN GROUNDING BUSBAR
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS OR WIRE
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

MOUNTING HEIGHT SCHEDULE	
EQUIPMENT (TO CENTER UON)	**HEIGHT (UON)**
CONTACTORS, MOTOR STARTERS, DISCONNECT (TOP)	66"
ELECTRIC RANGE RECEPTACLES (TOP)	7" MAX
INDICATING DEVICES (BOTTOM)	80"
PANELBOARDS - POWER; SPECIAL SYSTEMS (TOP)	72"
POWER METER BASE (CENTER LINE OF SOCKET)	PER UTILITY
PULL STATIONS, PUSH BUTTONS	46"
REC FULL HEIGHT REFRIGERATOR OR REACH-IN UNITS	46"
REC IN FINISHED AREAS	18"
REC IN NON-FINISHED, WAREHOUSE, MECH AND SHOPS	46"
REC LOCATED IN HAZARDOUS OR S-2 OCCUPANCIES	24" MINIMUM
TELECOMMUNICATION OUTLETS	18"
WALL MOUNTED SWITCHES	46"
WASHING MACHINES AND DRYER RECEPTACLE	43"

ELECTRICAL SHEET LIST	
NUM	**SHEET TITLE**
E0.1	LEGEND AND SPECIFICATIONS
E1.1	ELECTRICAL SITE PLAN
E2.1	LIGHTING PLAN
E3.1	POWER AND SIGNAL PLAN
E4.1	UNIT ELECTRICAL PLANS & SCHEDULES
E5.1	ONE-LINE DIAGRAMS, DETAILS, AND SCHEDULES
E6.1	PANEL SCHEDULES
TOTAL SHEETS: 7	

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PROJECT #: E23-4133

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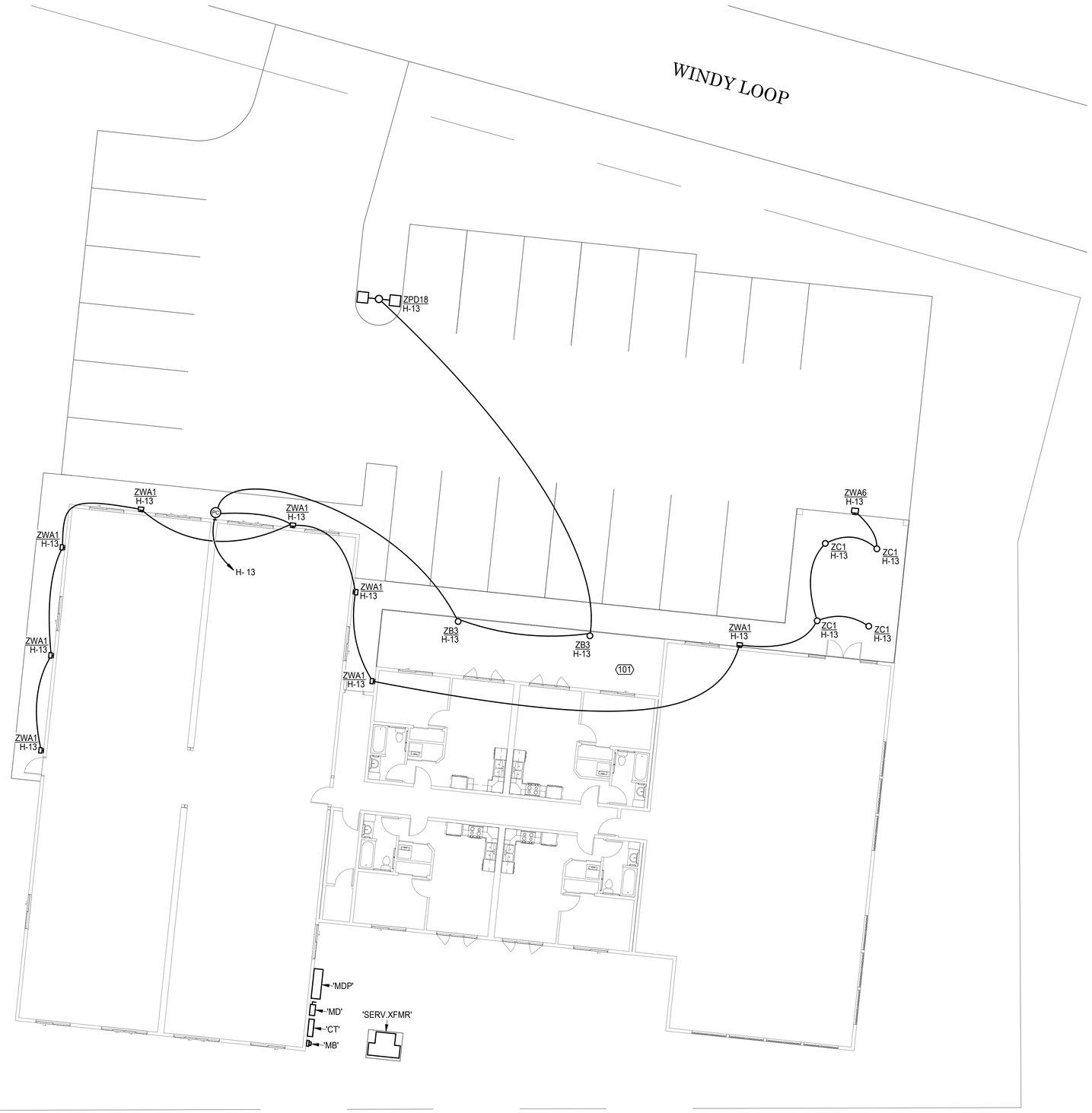
SHEET DESCRIPTION:
LEGEND AND SPECIFICATIONS

E0.1

SHEET:
of

SCALES ARE DENOTED AT 34"X22" SHEET SIZE. ADJUST ACCORDINGLY FOR OTHER PRINTED SHEET SIZES.

THIS SHEET IS FULL SIZE AT 34"x22" | 1" ACTUAL



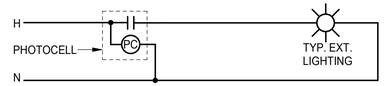
1 E1.1 ELECTRICAL SITE PLAN
SCALE: 1" = 10'-0"

GENERAL NOTES

1. EXTERIOR AREA LIGHTING ONLY SHOWN ON SITE PLAN.

REFERENCED SHEET NOTES

REF	NOTE
101	SEE FLOOR PLAN SHEETS FOR ADDITIONAL EXTERIOR BUILDING MOUNTED ELECTRICAL REQUIREMENTS SUCH AS LIGHTING, RECEPTACLES ETC.



DETAIL NOTES
1. MOUNT PHOTOCELL ON NORTH SIDE OF BUILDING BELOW ROOF LINE.

2 E1.1 EXTERIOR LIGHTING CONTROL DIAGRAM
SCALE: NONE

NORTH

SCALES ARE DENOTED AT 34"X22" SHEET SIZE. ADJUST ACCORDINGLY FOR OTHER PRINTED SHEET SIZES.

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SHEET DESCRIPTION:
ELECTRICAL SITE PLAN

E1.1

SHEET: of

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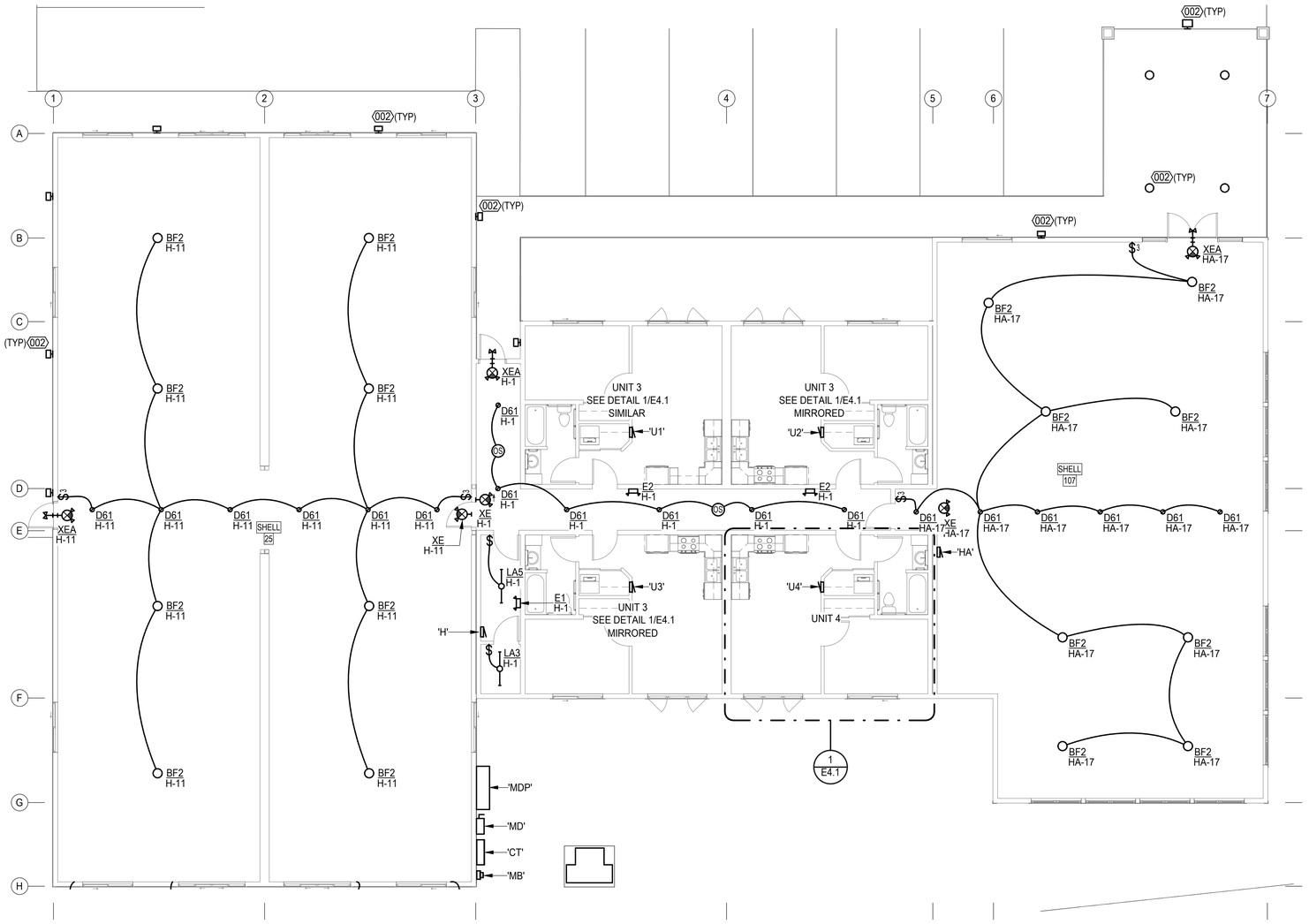
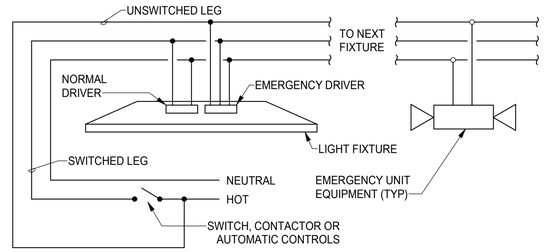
REFERENCED SHEET NOTES

REF	NOTE
002	REFER TO SITE PLAN FOR CIRCUIT AND TYPE DETAILS FOR THE EXTERIOR LIGHTING.



1 E2.1 LIGHTING PLAN
SCALE: 1/8" = 1'-0"



DETAIL NOTES:
1. EMERGENCY FIXTURES TO BE CONNECTED TO LOCAL LIGHTING CIRCUIT TO ILLUMINATE WHEN UNSWITCHED LEG CIRCUIT FAILS NO MATTER WHAT STATE LIGHTING IS OPERATING.

2 E2.1 EMERGENCY LIGHTING CONNECTION DIAGRAM
SCALE: NONE

SCALES ARE DENOTED AT 34"X22" SHEET SIZE. ADJUST ACCORDINGLY FOR OTHER PRINTED SHEET SIZES.

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SHEET DESCRIPTION:
LIGHTING PLAN

E2.1

SHEET:
of

1" ACTUAL

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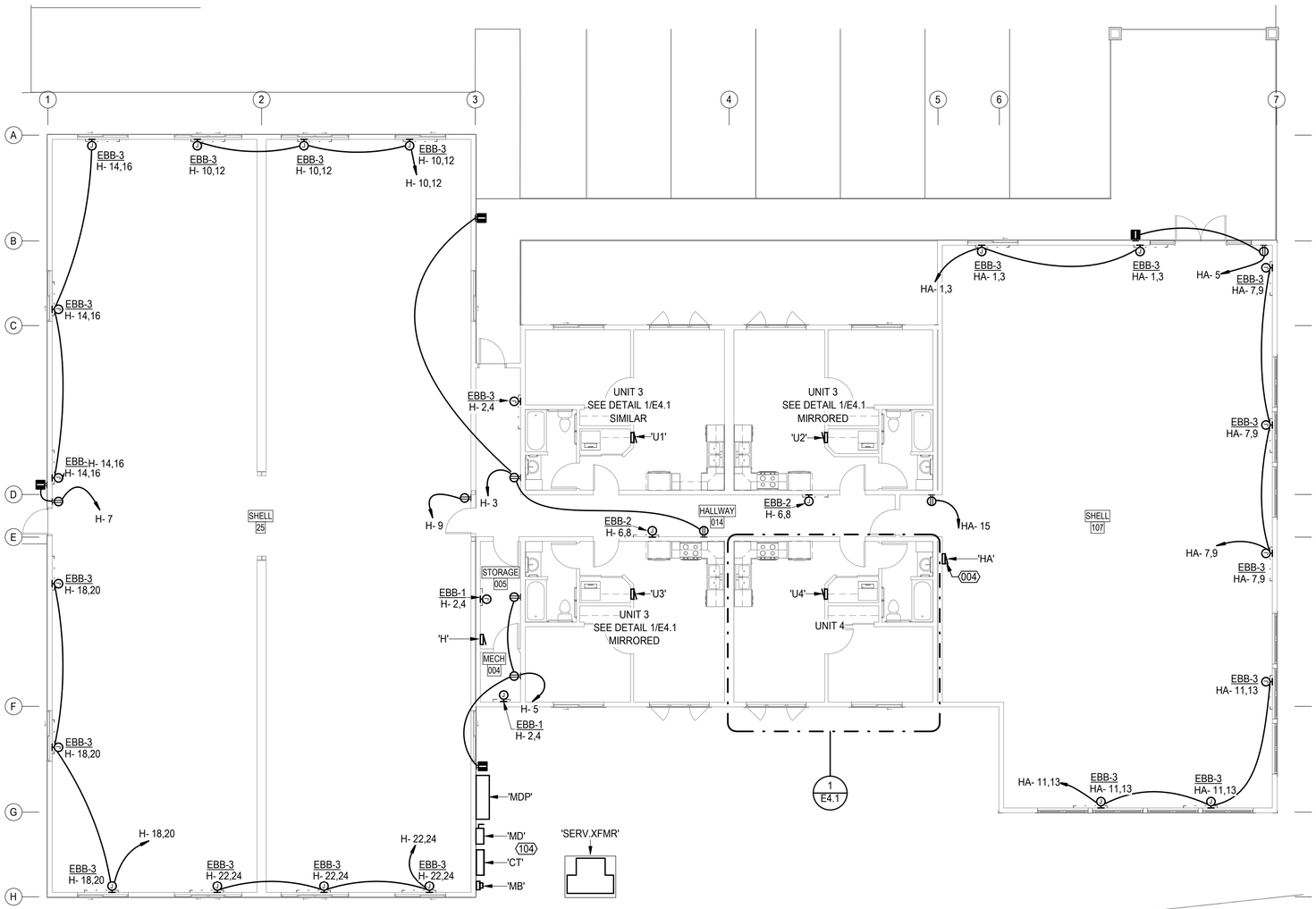
EQUIPMENT CONNECTION SCHEDULE	
NOTES	
(KEY)	'(x)' DENOTES A GENERAL, NON-REFERENCED, NOTE. NUMBERED NOTES ARE REFERENCED IN THE SCHEDULE.
(A)	REFER TO FLOOR PLAN DRAWINGS FOR EQUIPMENT TYPE REQUIREMENTS, LOCATIONS AND QUANTITIES.
(B)	COORDINATE ALL CONNECTION REQUIREMENTS WITH ACTUAL EQUIPMENT SUPPLIED PRIOR TO ROUGH-IN.
(C)	COORDINATE AND PROVIDE SPECIFIC SIZING OF OVERLOADS AND FUSES WITH EQUIPMENT NAMEPLATES.
(D)	FRACTIONAL HP TYPE MOTOR SWITCH WHERE AUTO CONTROL IS REQUIRED PROVIDE 'RELAY IN BOX'.
(E)	DISCONNECT HP RATING TO BE SIZED FOR FUSE TYPE AT THE SYSTEM VOLTAGE. (FAST ACTING FUSES REDUCE HP RATING, REFER TO MANUFACTURER'S DATA SHEET FOR REDUCTION).

SCHEDULE

EQUIP ID	LOCATION OR FUNCTION	KVA	HP	FLA	MCA	MFS	TYPE	CONFIG	V	PH	OPD	FEEDER (MINIMUM) CU UON	NOTES
DISP	GARBAGE DISPOSAL	0.840					DUPLEX GFCI	NEMA 1	120	1	20 A	0.5"C, (2)12 AWG, (1)12 AWG EGC	
DW	DISHWASHER	1.200					DUPLEX GFCI	NEMA 1	120	1	20 A	0.5"C, (2)12 AWG, (1)12 AWG EGC	
EBB-1	ELECTRIC BASEBOARD - 4 LINEAR FEET	0.376					HARDWIRED		208	1	20 A	0.5"C, (2)12 AWG, (1)12 AWG EGC	
EBB-2	ELECTRIC BASEBOARD - 4 LINEAR FEET	0.564					HARDWIRED		208	1	20 A	0.5"C, (2)12 AWG, (1)12 AWG EGC	
EBB-3	ELECTRIC BASEBOARD - 4 LINEAR FEET	0.752					HARDWIRED		208	1	20 A	0.5"C, (2)12 AWG, (1)12 AWG EGC	
EF-1	EXHAUST FAN	0.120	FHP				DIRECT WIRED	NEMA 1	120	1	20 A	0.5"C, (2)12 AWG, (1)12 AWG EGC	
HP-1B	HEAT PUMP OUTDOOR UNIT	2.496			12		FUSED DISC	NEMA 3R	208	1	15 A	0.5"C, (2)12 AWG, (1)12 AWG EGC	
MW	MICROWAVE	1.550					DUPLEX GFCI	NEMA 1	120	1	20 A	0.5"C, (2)12 AWG, (1)12 AWG EGC	
RANGE	ELECTRIC RANGE, 50A/2P CB	8.000					GFCI PROTECTED	NEMA 1	208	1	50 A	1"C, (3)6 AWG, (1)10 AWG EGC	
REF	REFRIGERATOR	1.200					DUPLEX GFCI	NEMA 1	120	1	20 A	0.5"C, (2)12 AWG, (1)12 AWG EGC	
WD-1	WASHER DRYER COMBO UNIT, 30A/2P CB	5.500					GFCI PROTECTED	NEMA 1	208	1	30 A	0.75"C, (3)10 AWG, (1)10 AWG EGC	
WH-1	ELECTRIC WATER HEATER	4.500					NON-FUSED DISC	NEMA 1	208	1	30 A	0.75"C, (2)10 AWG, (1)10 AWG EGC	



1 E3.1 POWER AND SIGNAL PLAN

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

SCALES ARE DENOTED AT 34"X22" SHEET SIZE. ADJUST ACCORDINGLY FOR OTHER PRINTED SHEET SIZES.

REFERENCED SHEET NOTES

REF	NOTE
004	PROVIDE BRANCH CIRCUIT PANEL IN SHELL AREA LOCATED IN FUTURE UTILITY ROOM TO FEED ALL CIRCUITS IN PHASE 2 TI.
104	COORDINATE WITH UTILITY FOR LOCATION OF BUILDING ELECTRICAL SERVICE AND APPROVAL OF CONFIGURATION AND EQUIPMENT TO BE PROVIDED PRIOR TO PROCUREMENT.

PLAN N

REVISIONS:

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SHEET DESCRIPTION:

POWER AND SIGNAL PLAN

E3.1

SHEET:

of

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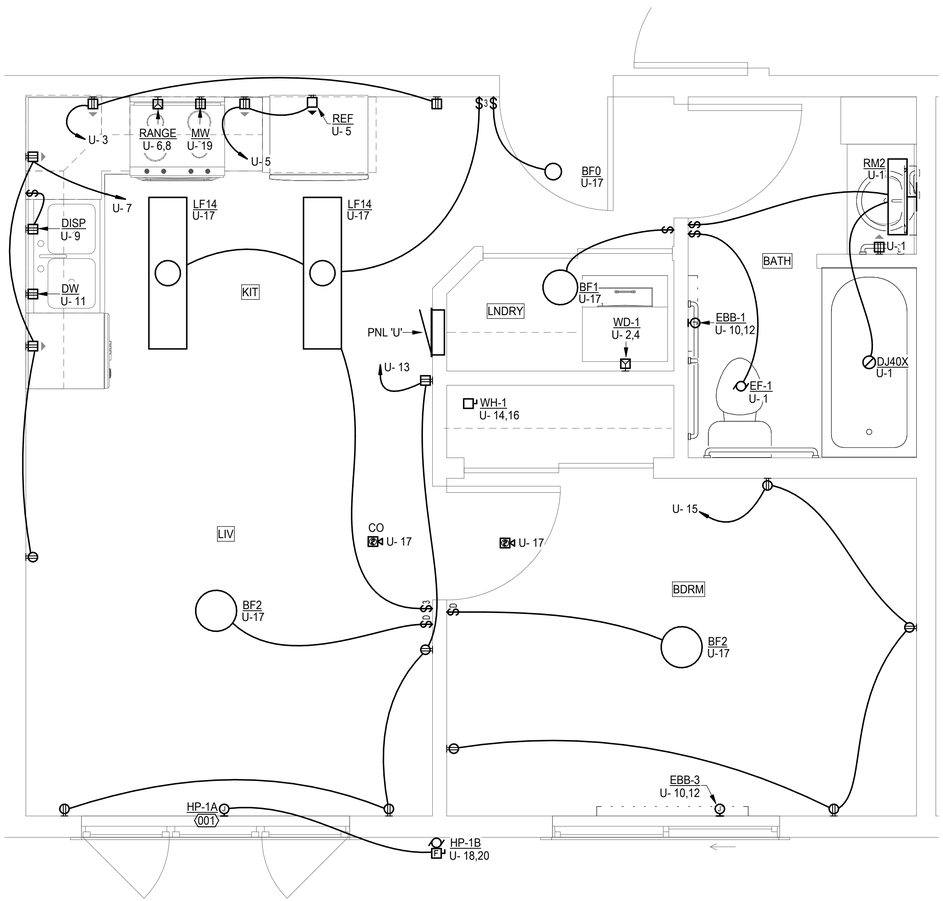
qc:02/11/2024 11:07:54 : fc-1 : !vsOnSht : abuDbl : *na5a : 1.1.5.0.6.1/7670

REFERENCED SHEET NOTES

REF	NOTE
001	HEAT PUMP INDOOR UNIT. POWERED BY EXTERNAL UNIT HP-1B.



1 E4.1 UNIT ELECTRICAL PLAN
SCALE: 1/2" = 1'-0"

SCALES ARE DENOTED AT 34"X22" SHEET SIZE. ADJUST ACCORDINGLY FOR OTHER PRINTED SHEET SIZES.

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SHEET DESCRIPTION:
UNIT ELECTRICAL PLANS & SCHEDULES

E4.1

SHEET:
of

1" ACTUAL

THIS SHEET IS FULL SIZE AT 34"x22"

LUMINAIRE SCHEDULE							
NOTES							
(KEY)	'(x)' DENOTES A GENERAL, NON-REFERENCED, NOTE. NUMBERED NOTES ARE REFERENCED IN THE SCHEDULE.						
(A)	CATALOG NUMBERS ARE FOR GENERAL REFERENCE AND ARE NOT INCLUSIVE OF ALL OPTIONS/REQUIREMENTS DENOTED ON PLANS AND SPECIFICATIONS. ASTERISK (*) DENOTES COORDINATION ITEMS.						
(B)	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND PROVIDE MOUNTING HARDWARE/FLANGES ETC FOR ALL LUMINAIRES FOR CEILING TYPES SHOWN.						
(C)	PROVIDE UNIVERSAL OR MULTI-VOLTAGE VOLTAGE DRIVERS WHEN AVAILABLE. COORDINATE EXACT VOLTAGE/PHASE WITH CONNECTED CIRCUITS IN ALL OTHER SITUATIONS.						
(D)	LIGHT SOURCE COLOR TEMPERATURE, UNLESS OTHERWISE NOTED: 3500K (SELECT NEAREST AVAILABLE COLOR TEMP FOR EACH LUMINAIRE TYPE). LIGHT SOURCE CRI TO BE 80 MIN, UON.						
(E)	COLOR FINISH FOR ALL EXTERIOR LUMINAIRES TO BE DARK BRONZE UON.						
(F)	ALL POLES TO BE SQUARE STEEL WITH VIBRATION DAMPER RATED FOR 100MPH WIND & 1.3 GUST FACTOR FOR OVERALL EPA. NUMBER OF HEADS AND ORIENTATION TO BE AS DONOTED ON THE PLANS.						
(G)	PROVIDE DRIVEN STEEL PILE LIGHT POLE FOUNDATION PER M.A.S.S. DETAIL 80-13. EXTEND PILE 3'-0" ABOVE GRADE AND PROVIDE 3'-0" CONCRETE PROTECTION BASE UON FOR AN OVERALL MOUNTING HEIGHT AS DENOTED IN MOUNTING COLUMN. NOMINAL POLE SHAFT LENGTH IS EQUAL TO MOUNTING HEIGHT MINUS 3'-0" CONCRETE BASE. ALL POLES TO INCLUDE ANCHOR BOLT TRIM COVERS.						
SCHEDULE							
TYPE	DESCRIPTION	WATTS	LUMENS	MOUNTING	MANUFACTURER	MODEL	NOTES
BF0	5" SURFACE LED DOWNLIGHT	10 W	754 LM LED	CEILING SURFACE	JUNO	JSF 5IN 07LM * * * MVOLT ZT [DWELLINGS USE 120FRPC] WH	
BF1	11" SURFACE LED DOWNLIGHT	15 W	1352 LM LED	CEILING SURFACE	JUNO	JSF 11IN 13LM * * * MVOLT ZT [DWELLINGS USE 120FRPC] WH	
BF2	13" SURFACE LED DOWNLIGHT	20 W	1843 LM LED	CEILING SURFACE	JUNO	JSF 13IN 18LM * * * MVOLT ZT [DWELLINGS USE 120FRPC] WH	
D61	6" OPEN LED DOWNLIGHT, ADJUSTABLE (FIELD SET TO 750 LUMENS)	13 W	750 LM LED	CEILING RECESSED	LITHONIA	LDN6 AL01 SWW1* L06AR LD MVOLT UGZ	
DJ40X	4" LENSED LED DOWNLIGHT WET LOCATION	9 W	534 LM LED	CEILING RECESSED	JUNO	IC1LED G4 06LM *K *CRI * 12 WWH	
E1	EMERGENCY LIGHTING UNIT W/ TWO ADJUSTABLE HEADS	0 W	(2) 0.75W LED	WALL +7'-0"	LITHONIA	EU2L	
E2	EMERGENCY LIGHTING UNIT W/ TWO ADJUSTABLE HEADS	1 W	(2) 1.2W LED	WALL +7'-0" OR CEILING	LITHONIA	ELM2L M12	
LA3	4FT LED STRIP W/ ADJUSTABLE OUTPUT (FIELD SET SWITCH TO 3000 LUMENS)	28 W	3190 LM LED	CEILING SURFACE	LITHONIA	CSS L48 AL03 MVOLT SWW3 80CRI (FIELD SET CCT *)	
LA5	4FT LED STRIP W/ ADJUSTABLE OUTPUT (FIELD SET SWITCH TO 5000 LUMENS)	44 W	5058 LM LED	CEILING SURFACE	LITHONIA	CSS L48 AL03 MVOLT SWW3 80CRI (FIELD SET CCT *)	
LF14	1' X 4' LED FLAT PANEL W/ ADJUSTABLE OUTPUT (FIELD SET SWITCH TO 4400 LUMENS)	39 W	4356 LM LED	CEILING SURFACE	LITHONIA	CPANL 1X4 24/33/44LM *K M4 DCMK 14	
RM2	2FT LED CYLINDER VANITY	18 W	1737 LM LED	WALL OVER MIRROR	LITHONIA	FMVCCLS 24IN MVOLT * 90CRI BN	
XE	LED COMBO EXIT SIGN & EMERGENCY LIGHTING UNIT W/ BATTERY BACKUP	4 W	GREEN LED	WALL OR CEILING	LITHONIA	LHQM LED G	
XEA	LED COMBO EXIT SIGN & EMERGENCY LIGHTING UNIT W/ EXTERIOR REMOTE EM LIGHT	4 W	GREEN LED	WALL OR CEILING	LITHONIA	LHQM LED G HO; AFB OELR DDBTXD WT	
ZB3	8" ROUND LED BOLLARD W/ ALUMINUM MOUNTING RING	39 W	3009 LM LED	CONCRETE BASE	LITHONIA	KBD8 LED 16C 700 *K SYM * *	
ZC1	12" ROUND CANOPY AREA LIGHT	17 W	1077 LM LED	CEILING/SURFACE	LITHONIA	OLCFM 15 *	
ZPD18	POLE MOUNTED AREA LIGHT	140 W	17791 LM LED	POLE +20'-0"	LITHONIA	DSX1 LED P2 40K TFTM MVOLT	
ZWA1	OUTDOOR LED WALL LUMINAIRE, DIE-CAST ALUMINUM	11 W	1454 LM LED	WALL 7'-2"	LITHONIA	ARC1 LED P1 * MVOLT *	
ZWA6	OUTDOOR LED WALL LUMINAIRE, DIE-CAST ALUMINUM	51 W	6615 LM LED	WALL 13' 6"	LITHONIA	ARC2 LED P5 * MVOLT *	

DISTRIBUTION SCCR SCHEDULE
EQUIPMENT SHALL HAVE A SCCR EXCEEDING THE SHORT CIRCUIT AMPS (SCA) OR MINIMUM SCCR, WHICH EVER IS GREATER. EQUIPMENT SHALL BE FULLY RATED. BRANCH CIRCUIT PANELS RATED 225 AMPS OR LESS MAY USE MANUFACTURER TESTED COMBINATIONS PER NEC 240.86(B) AND THE MOTOR LOADS DO NOT EXCEED 1% OF THE LOWEST AIC RATED DEVICE IN THE PANEL PER NEC 240.86(C).
CONTRACTOR TO VERIFY EQUIPMENT TO BE PROVIDED WITH SERVING UTILITY PRIOR TO PROCUREMENT. ANY DECREASE OF TRANSFORMER %Z, CONDUCTOR LENGTHS, OR INCREASE IN TRANSFORMER KVA OR CABLE SIZES TO BE REPORTED TO CONTRACT OFFICER FOR RECALCULATION OF SCA PRIOR TO PROCUREMENT. LENGTHS PROVIDED ARE MINIMUM FOR VALID CALCULATED VALUE AND DO NOT REPRESENT ACTUAL FEEDER LENGTH.

ASSUMED UTILITY SYSTEM CONFIGURATION (BASIS FOR CALCULATION)			
SERVICE TRANSFORMER			
		SCA SECONDARY	
KVA	%Z	LINE-LINE	LINE-NEUTRAL
300	2.50	33,291	33,291
- FOR CALCULATION ONLY -			
AMPS	SERVICE LATERAL		FT
1000	3EA: (4)400 KCMIL		14

EQUIPMENT ID	SCA	MIN SCCR	XR
CT	31,910	36,000	2.94
H	23,248	26,000	1.60
HA	9,049	10,000	0.53
MD	31,280	35,000	2.86
MDP	30,738	34,000	2.79
U1	16,216	18,000	1.11
U2	14,369	16,000	1.01
U3	19,439	22,000	1.30
U4	16,175	18,000	1.10

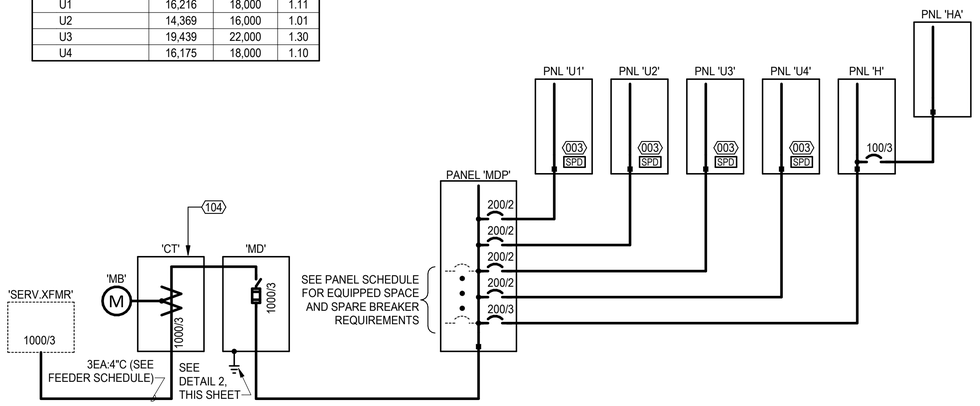
SERVICE EQUIPMENT SCHEDULE					
NOTES					
(KEY)	'(x)' DENOTES A GENERAL, NON-REFERENCED, NOTE.				
(A)	'MB' DENOTES ELECTRICAL SERVICE METERBASE PER UTILITY STANDARDS.				
1	NOT USED.				
SCHEDULE					
ID	FUNCTION	OPD	VOLTAGE CONFIG	ENCLOSURE	NOTES
CT	CT ENCLOSURE	1000 A	208Y/120V, 3PH, 4W	NEMA 3R	
MD	SERVICE MAIN	1000 A	208Y/120V, 3PH, 4W	NEMA 3R	

FEEDER SCHEDULE		
ID	AMPERAGE	FEEDER (MINIMUM) CU UON
CT	1000	3EA: (4)400 KCMIL
MD	1000	3EA: 3"C, (4)400 KCMIL, (1)3/0 AWG BJ
MDP	1000	3EA: 3"C, (4)400 KCMIL, (1)2/0 AWG EGC
H	200	2"C, (4)3/0 AWG, (1)6 AWG EGC
U1	200	2"C, (3)3/0 AWG, (1)6 AWG EGC
U2	200	2"C, (3)3/0 AWG, (1)6 AWG EGC
U3	200	2"C, (3)3/0 AWG, (1)6 AWG EGC
U4	200	2"C, (3)3/0 AWG, (1)6 AWG EGC
HA	100	1.25"C, (4)2 AWG, (1)6 AWG EGC

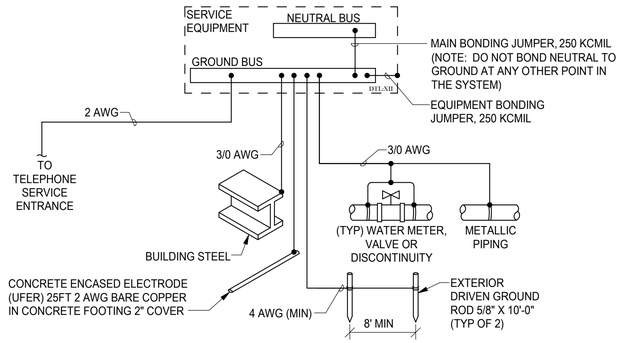
SER CABLES ARE ACCEPTABLE WHERE PROTECTED FOR 200 AMP AND BELOW FEEDERS

EQUIPMENT SCCR SCHEDULE	
NOTES	
(A)	THE SHORT CIRCUIT AMPS (SCA) COLUMN DENOTES THE CALCULATED MAXIMUM AVAILABLE FAULT CURRENT AT THE EQUIPMENT'S POINT OF CONNECTION.
(B)	THE SHORT CIRCUIT CURRENT RATING (SCCR) COLUMN DENOTES THE EQUIPMENT SCCR RATING EXPECTED. THE CONTRACTOR SHALL VERIFY THE INSTALLED EQUIPMENT MEETS OR EXCEEDS THE EXPECTED SCCR VALUE. WHERE THE SCCR VALUE IS LESS THAN THE SCA VALUE, THE CONTRACTOR SHALL PROVIDE A DISCONNECT WITH CURRENT LIMITING FUSES CAPABLE TO REDUCE THE PEAK LET-THROUGH CURRENT TO LESS THAN THE EQUIPMENT'S SCCR RATING. TYPICALLY THIS WILL REQUIRE CLASS RK1 FAST ACTING OR T FAST-ACTING FUSES. THE CONTRACTOR SHALL PROVIDE THE FUSE DOCUMENTATION OF THE LIMITED PEAK LET-THROUGH VALUE TO THE ENGINEER, INSPECTOR, AND POST INSIDE THE EQUIPMENT.
(C)	THE OPD COLUMN DENOTES THE UPSTREAM CIRCUIT BREAKER RATING. THE FUSE AMPERAGE IS TO BE SELECTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND NEC REQUIREMENTS FOR THE SPECIFIC EQUIPMENT PROVIDED.
(D)	PROVIDE SIGNAGE AT THE DISCONNECT DENOTING THE EQUIPMENT ID, FED FROM PANEL 'ID', SCA, AND THE DATE OF THE PLANS. WHERE CURRENT LIMITING FUSES ARE REQUIRED ALSO PROVIDE WARNING SIGNAGE DENOTING THE PEAK LET-THROUGH AMPERAGE OF THE FUSES, TEXT DENOTING "IDENTIFIED REPLACEMENT COMPONENTS REQUIRED", FOLLOWED BY AMPERAGE AND MANUFACTURER/MODEL TYPE OF FUSE REQUIRED.

SCHEDULE				
ID	TYPE	OPD	SCA	SCCR
HP-1B	FUSED DISC	15 A	3,465	5,000



1 E5.1 POWER ONE-LINE DIAGRAM
SCALE: NONE



2 E5.1 GROUNDING SYSTEM ONE-LINE DIAGRAM
SCALE: NONE

NOTES:
1. BOND ALL BUILDING STEEL AND METALLIC PIPING TO PROVIDE ELECTRICALLY CONTINUOUS SYSTEMS. BOND HOT AND COLD METALLIC WATER PIPES TOGETHER AT EACH WATER HEATER WITH 8 AWG MINIMUM.
2. PROVIDE RACEWAY FOR ALL ELECTRODE AND BOND CONDUCTORS. RACEWAY TO BE METALLIC IN PLENUM AIR SPACES. BOND METALLIC RACEWAY TO EACH END OF CONDUCTOR.
3. COMBINE GROUNDING ELECTRODE CONDUCTORS PER NEC.

REFERENCED SHEET NOTES

REF	NOTE
003	PROVIDE SURGE PROTECTION DEVICE IN EACH DWELLING UNIT PANEL.
104	COORDINATE WITH UTILITY FOR LOCATION OF BUILDING ELECTRICAL SERVICE AND APPROVAL OF CONFIGURATION AND EQUIPMENT TO BE PROVIDED PRIOR TO PROCUREMENT.

SCALES ARE DENOTED AT 34"X22" SHEET SIZE. ADJUST ACCORDINGLY FOR OTHER PRINTED SHEET SIZES.

REVISIONS:

THRHA - Craig Senior Center

STATUS:
CONSTRUCTION DOCUMENTS

DRAWN BY: LDW
CHECKED BY: EDC
DATE: 02/11/2024
PROJECT #: E23-4133

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SHEET DESCRIPTION:
ONE-LINE DIAGRAMS, DETAILS, AND SCHEDULES

E5.1

SHEET:
of

2/11/2024 11:08:05 AM C:\Users\EricCowling\EIC Engineers\Design - Files\Projects\E23\E23-4133 THRHA Craig Senior Center - Phase I\DES\E23-4133_ESht24_THRHACraigSeniorCntr-Phase1.rvt
qc:02/11/2024 11:07:54 : fc-1 : tvisOnSht : abuDbl : *naSa : 1.1;5.0.6.1/7670

SWITCHBOARD 'MDP' SCHEDULE

VOLTAGE: 208Y/120V, 3PH, 4W
OPD RATING: 1000 A
LOCATION: EXT
ENCLOSURE: NEMA 3R
MOUNTING: WALL MOUNTED

CKT	N	LOAD DESCRIPTION	POLES	TRIP	A	B	C	NOTES
1		PANEL 'H'	3	200 A	7.6	6.9	6.5	
2		PANEL 'U1'	2	200 A	16.8	17.4		
3		PANEL 'U2'	2	200 A		16.8	17.4	
4		PANEL 'U3'	2	200 A	17.4		16.8	
5		PANEL 'U4'	2	200 A	16.8	17.4		
6	--	SPARE	2	200 A		0.0	0.0	
7	--	SPARE	2	200 A	0.0		0.0	
8	--	SPARE	2	200 A	0.0	0.0		
9	--	SPARE	2	200 A		0.0	0.0	
10	--	- PREPARED SPACE -	2	200 A	0.0	0.0		
11	--	- PREPARED SPACE -	2	200 A	0.0	0.0		
12	--	- PREPARED SPACE -	2	200 A	0.0	0.0		
		TOTAL KVA/PHASE:			58.7	58.6	40.8	
		TOTAL AMPS/PHASE:			512.0	511.2	339.9	

LOAD CLASSIFICATION	CONNECTED	NEC FACTOR	TOTAL NEC
MTR	0.480 kVA	106.25%	0.510 kVA
REC	2.160 kVA	100.00%	2.160 kVA
LTG	1.171 kVA	125.00%	1.464 kVA
NCNT	72.184 kVA	100.00%	72.184 kVA
DRYR	22.000 kVA	100.00%	22.000 kVA
APLNC	19.160 kVA	75.00%	14.370 kVA
GNR	30.900 kVA	41.31%	12.765 kVA
MCA	9.984 kVA	100.00%	9.984 kVA
LTGE	0.046 kVA	125.00%	0.058 kVA

FUTURE LOAD: 300KVA, 832A NEC COMPUTED

PANEL TOTALS
CONNECTED KVA: 158.1 kVA
NEC CALCULATED KVA: 135.5 kVA
CONNECTED AMPS: 438.8 A
NEC CALCULATED AMPS: 376.1 A

PANEL 'H' SCHEDULE

VOLTAGE: 208Y/120V, 3PH, 4W
OPD RATING: 200 A
LOAD CENTER
LOCATION: STORAGE 005
ENCLOSURE: NEMA 1
MOUNTING: SURFACE

#	N	LOAD DESCRIPTION	AMP	P	A		B		C		P	AMP	LOAD DESCRIPTION	N	#
1		LTG/LTGE: RM 14,4,5	20	1	0.19	0.75					2	20	NCNT: RM 14,4,5 EBB-1s,EBB-3	L	2
3		REC: RM 14	20	1			0.54	0.75			--	--	--	--	4
5		REC: RM 4-5	20	1					0.54	0.56	2	20	NCNT: RM 14 EBB-2s	L	6
7		REC: RM 25	20	1	0.36	0.56					--	--	--	--	8
9		REC: RM 25	20	1			0.18	1.13			2	20	NCNT: RM 25 EBB-3s	L	10
11		LTG/LTGE: RM 25	20	1					0.28	1.13	--	--	--	--	12
13		LTG: EXT.	20	1	0.47	1.13					2	20	NCNT: RM 25 EBB-3s	L	14
15	--	SPARE	20	1			0.00	1.13			--	--	--	--	16
17	--	SPARE	20	1					0.00	1.13	2	20	NCNT: RM 25 EBB-3s	L	18
19	--	SPARE	20	1	0.00	1.13					--	--	--	--	20
21	--	SPARE	20	1			0.00	1.13			2	20	NCNT: RM 25 EBB-3s	L	22
23	--	SPARE	20	1					0.00	1.13	--	--	--	--	24
25	--	SPARE	20	1	0.00	0.00					1	20	SPARE	--	26
27	--	SPARE	20	1			0.00	0.00			1	20	SPARE	--	28
29	--	SPARE	20	1					0.00	0.00	1	20	SPARE	--	30
31	--	SPARE	20	1	0.00	0.00					1	20	SPARE	--	32
33	--	SPARE	20	1			0.00	0.00			1	20	SPARE	--	34
35	--	SPARE	20	1					0.00	0.00	1	20	SPARE	--	36
37	--	- SPACE -	--	1	--	3.01					3	100	HA		38
39	--	- SPACE -	--	1			--	2.06			--	--	--	--	40
41	--	- SPACE -	--	1					--	1.76	--	--	--	--	42
		TOTAL KVA/PHASE:			7.6		6.9		6.5						
		TOTAL AMPS/PHASE:			63.9		58.1		54.4						

SUMMARY BY LOAD TYPE

LOAD CLASSIFICATION	CONNECTED	NEC FACTORS	TOTAL NEC
LTG	1.171 kVA	125.00%	1.464 kVA
LTGE	0.046 kVA	125.00%	0.058 kVA
NCNT	17.672 kVA	100.00%	17.672 kVA
REC	2.160 kVA	100.00%	2.160 kVA

PANEL TOTALS
CONNECTED KVA: 21.049 kVA
NEC CALCULATED KVA: 21.353 kVA
CONNECTED AMPS: 58 A
NEC CALCULATED AMPS: 59 A

PANEL 'HA' SCHEDULE

VOLTAGE: 208Y/120V, 3PH, 4W
OPD RATING: 100 A
LOAD CENTER
LOCATION: SHELL 107
ENCLOSURE: NEMA 1
MOUNTING: SURFACE

#	N	LOAD DESCRIPTION	AMP	P	A		B		C		P	AMP	LOAD DESCRIPTION	N	#
1	L	NCNT: RM 107 EBB-3s	20	2	0.75	0.00					1	20	SPARE	--	2
3	--	--	--	--			0.75	0.00			1	20	SPARE	--	4
5		REC: RM 107	20	1					0.36	0.00	1	20	SPARE	--	6
7	L	NCNT: RM 107 EBB-3s	20	2	1.13	0.00					1	20	SPARE	--	8
9	--	--	--	--			1.13	0.00			1	20	SPARE	--	10
11	L	NCNT: RM 107 EBB-3s	20	2					1.13	0.00	1	20	SPARE	--	12
13	--	--	--	--	1.13	0.00					1	20	SPARE	--	14
15		REC: RM 107	20	1			0.18	0.00			1	20	SPARE	--	16
17		LTG/LTGE: RM 107	20	1					0.28	0.00	1	20	SPARE	--	18
19	--	SPARE	20	1	0.00	0.00					1	20	SPARE	--	20
21	--	SPARE	20	1			0.00	0.00			1	20	SPARE	--	22
23	--	SPARE	20	1					0.00	0.00	1	20	SPARE	--	24
25	--	SPARE	20	1	0.00	0.00					1	20	SPARE	--	26
27	--	SPARE	20	1			0.00	0.00			1	20	SPARE	--	28
29	--	SPARE	20	1					0.00	0.00	1	20	SPARE	--	30
		TOTAL KVA/PHASE:			3.0		2.1		1.8						
		TOTAL AMPS/PHASE:			25.4		17.5		14.7						

SUMMARY BY LOAD TYPE

LOAD CLASSIFICATION	CONNECTED	NEC FACTORS	TOTAL NEC
LTG	0.264 kVA	125.00%	0.330 kVA
LTGE	0.012 kVA	125.00%	0.015 kVA
NCNT	6.016 kVA	100.00%	6.016 kVA
REC	0.540 kVA	100.00%	0.540 kVA

PANEL TOTALS
CONNECTED KVA: 6.832 kVA
NEC CALCULATED KVA: 6.901 kVA
CONNECTED AMPS: 19 A
NEC CALCULATED AMPS: 19 A

PANEL SCHEDULE NOTES (COLUMN 'N' OF PANEL SCHEDULE)	
'KEY'	DEFINITION OF REQUIREMENT - NOT ALL KEY NOTES ARE NECESSARILY REFERENCED
A	PROVIDE COMBINATION-TYPE AFCI CIRCUIT BREAKER.
B	PROVIDE CIRCUIT BREAKER RATED FOR "BACKFEED" USE.
C	CONTROL CIRCUIT VIA CONTACTOR.
D	PROVIDE DUAL FUNCTION AFCI AND GFCI CIRCUIT BREAKER.
E	PROVIDE GFPE CIRCUIT BREAKER.
G	PROVIDE GFCI CIRCUIT BREAKER.
L	PROVIDE CIRCUIT BREAKER WITH OEM LOCK-OFF DEVICE FOR USE AS DISCONNECT PER NEC.
N	PROVIDE NEW CIRCUIT BREAKER MATCHING EXISTING BREAKER AIC RATINGS.
O	PROVIDE CIRCUIT BREAKER WITH OEM LOCK ON DEVICE IDENTIFIED WITH RED MARKINGS.
S	PROVIDE SHUNT TRIP CIRCUIT BREAKER CONTROLLED BY ASSOCIATED SYSTEM.

LOAD CLASSIFICATIONS SCHEDULE	
NOTES	
(A)	NOT ALL LOAD CLASSIFICATIONS ARE NECESSARILY USED. ONLY CLASSIFICATIONS FROM LOADS THAT ARE CONNECTED TO EACH PANEL ARE SHOWN IN THE SUMMARY SECTION OF THE PANEL SCHEDULES.
(B)	PANELBOARD BUS RATINGS TO EQUAL OR EXCEED OPD RATINGS SHOWN IN PANEL SCHEDULES UNLESS OTHERWISE NOTED.
(C)	THE NEC DEMAND PERCENTAGE VALUES SHOWN IN THE PANEL SCHEDULE ARE A WEIGHTED AVERAGE. EXAMPLE 100VA @ 125% PLUS 100VA @100% IS A WEIGHTED AVERAGE OF 112.5% RESULTING IN 225VA NEC COMPUTED DEMAND AND 200VA CONNECTED.

SCHEDULE		
CLASS.	NEC 2020	DESCRIPTION
CONT	210.20(A)	125% OF THE CONTINUOUS LOAD.
KTCH	220.56	TABLE 220.56 - DEMAND FACTORS FOR KITCHEN EQUIPMENT.
LTG	210.20(A)	LIGHTING LOADS CONSIDERED TO BE CONTINUOUS. 125% OF THE CONTINOUS LOAD.
LTGE	210.20(A)	CALCULATED SAME AS 'LTG' BUT EXCLUDED FROM ENERGY LIGHTING POWER DENSITY CALCULATIONS.
MTR	430.24	125% OF THE FULL-LOAD CURRENT RATING OF THE HIGHTEST RATED MOTOR PLUS THE SUM OF THE FULL-LOAD CURRENT RATINGS OF ALL OTHER MOTORS.
NCDN	220.60	NONCOINCIDENT LOADS: WHERE TWO OR MORE LOAD ARE UNLIKELY TO BE IN USE SIMULTANEOUSLY, THE LARGEST LOAD WILL BE USED. LOADS CLASSIFIED AS NCDN WILL HAVE ZERO LOAD.
NCNT	210.20(A)	100% OF THE NON-CONTINUOUS LOAD.
REC	220.44	NON-DWELLING GENERAL USE RECEPTACLES = FIRST 10KVA OR LESS AT 100% PLUS REMAINDER AT 50%.
MCA	(SEE MTR)	THE LOAD IS BASED ON THE GIVEN MCA (MINIMUM CIRCUIT AMPACITY) WHICH INCLUDES 125% OF THE LARGEST MOTOR OF THE UNIT. 100% OF THE MCA LOAD.
GNRH	220.12; 16(J); &220.42	GENERAL LIGHTING LOADS (HOTELS & APARTMENTS W/O COOKING) - 1.7VA PER SQFT AND INCLUDES OUTLETS SPECIFIED IN 220.14(M). DEMAND: FIRST 20,000VA OR LESS @50%; 20,001-100,000VA @40%; >100,000VA @30%.
APLNC	220.53	DWELLINGS: 75% OF FOUR OR MORE APPLIANCES.
DRYR	220.54	DWELLINGS: TABLE 220.54 - ELECTRIC CLOTHES DRYERS ON 3 PHASE SYSTEMS. DRYER1 IS FOR 1 PHASE SYSTEMS.
GNR	220.14(J); 220.42	DWELLINGS: 3VA PER SQ.FT. AND INCLUDES ALL OUTLETS SPECIFIED IN 220.14(J)(1), (J)(2), & (J)(3). DEMAND: FIRST 3,000VA OR LESS @ 100%; 3,001 - 120,000VA @ 35%; > 120,000VA @ 25%.
RNGE	220.55	DWELLINGS: TABLE 220.55 - COLUMN C: NOT OVER 12KW RATING. RNGE1 IS FOR 1 PHASE SYSTEMS.

PANEL 'U' SCHEDULE (TYP FOR UNIT PANELS 'U1' - 'U4')

VOLTAGE: 208/120V, 1PH, 3W
OPD RATING: 200 A
LOAD CENTER
LOCATION: KITCHEN KIT
ENCLOSURE: NEMA 1
MOUNTING: RECESSED

#	N	LOAD DESCRIPTION	AMP	P	A		B		P	AMP	LOAD DESCRIPTION	N	#
1	A	MTR/GNR: RM BATH EF-1	20	1	0.12	2.75			2	30	DRYR: RM LNDRY WD-1	G	2
3	A	GNR: RM KIT REC B	20	1			0.00	2.75	--	--	--	--	4
5	A	APLNC/GNR: RM KIT REF REC C	20	1	1.20	4.00			2	50	NCNT: RM KIT RANGE	G	6
7	A	GNR: RM KIT,LIV REC A	20	1			0.00	4.00	--	--	--	--	8
9	A	APLNC: RM KIT DISP	20	1	0.84	0.56			2	20	NCNT: RM BATH,BDRM EBB-1,EBB-3	L	10
11	A	APLNC: RM KIT DW	20	1			1.20	0.56	--	--	--	--	12
13	A	GNR: RM KIT,LIV REC	20	1	0.00	2.25			2	30	NCNT: RM LNDRY WH-1	G	14
15	A	GNR: RM BDRM REC	20	1			0.00	2.25	--	--	--	--	16
17	A	GNR: RM BDRM,KIT,LIV,LNDRY LTG	20	1	0.00	1.25			2	15	MCA: HP-1B	G	18
19	A	APLNC: RM KIT MW REC C	20	1			1.55	1.25	--	--	--	--	20
21	--	- SPACE -	--	1	--	0.00			1	20	SPARE	--	22
23	--	- SPACE -	--	1			--	0.00	1	20	SPARE	--	24
25	--	- SPACE -	--	1	--	0.00			1	20	SPARE	--	26
27	--	- SPACE -	--	1			--	0.00	2	30	SPD	--	28
29	--	- SPACE -	--	1	--	0.00			--	--	--	--	30
		TOTAL KVA/PHASE:			16.8		17.4						
		TOTAL AMPS/PHASE:			161.9		166.8						

SUMMARY BY LOAD TYPE

LOAD CLASSIFICATION	CONNECTED	NEC FACTORS	TOTAL NEC
APLNC	4.790 kVA	75.00%	3.593 kVA
DRYR	5.500 kVA	100.00%	5.500 kVA
GNR	7.725 kVA	60.24%	4.654 kVA
MCA	2.496 kVA	100.00%	2.496 kVA
MTR	0.120 kVA	125.00%	0.150 kVA
NCNT	13.628 kVA	100.00%	13.628 kVA

PANEL TOTALS
CONNECTED KVA: 34.259 kVA
NEC CALCULATED KVA: 30.020 kVA
CONNECTED AMPS: 165 A
NEC CALCULATED AMPS: 144 A

SCALES ARE DENOTED AT 34"X22" SHEET SIZE. ADJUST ACCORDINGLY FOR OTHER PRINTED SHEET SIZES.

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SHEET DESCRIPTION:
PANEL SCHEDULES

E6.1

SHEET:
of