City of Twin Falls
General Inspection Notes

NOTE: This is not a complete list and is not inclusive of all construction methods, materials or practices. These checklists are intended to serve as a guide for the items that cause the most issues during inspections and promote consistency in the application of the codes & standard practices. Compliance with all the provisions of applicable codes shall be required.

The information in the checklists is not, or was it ever intended to be, all inclusive. It does not include all code or individual plan requirements. It is intended to reflect local policies, procedures & practices within the City of Twin Falls. These checklists do not waive any specific code requirements not listed or allow for the decrease in the requirements of an engineered design. It also does not add requirements where the minimum of the code has been met.

This page and all approved plans, associated documents, revisions & changes to the plans must be maintained on site and available for review at all times.

FIRE

Fire Alarm Inspection:

* Fire alarm plans must be approved by the State Fire Marshal's office or if applicable the Twin Falls Fire Marshal prior to installation and inspection.
* Fire alarm system must be wired to call out from a land line, or with a cell dialer. (Voice over IP is not allowed).
* Fire alarm system must be live and capable of calling the Twin Falls Dispatch Center on the day of testing.

Fire Sprinkler Inspection:

* Fire sprinkler plans must be approved by the State Fire Marshal's office prior to installation and inspection. Underground fire sprinkler line must be inspected by the Twin Falls Fire Department prior to be covered.
* Pipe or hose used for flushing the underground sprinkler line must be secure, incapable of movement, and is deemed safe by the inspector.
* Rough to cover inspection and hydro testing must be completed before covering or tenting the above ground fire sprinkler system.

Kitchen Hood Inspections:

* Fire suppression system must be installed and ready for trip test (trip link, balloons, etc.) prior to inspection.
* Kitchen hood must be wired to initiate the fire alarm upon activation of the fire suppression system. (The only exception to this is if the building does not require a fire alarm to be installed)
* All electrical outlets, lighting, and appliances under the kitchen hood must shut down upon activation of the fire suppression system.
* Main gas valve must be installed and must shut down upon activation of the fire suppression system.
* Exhaust fan must be capable of running continuously upon activation of the fire suppression system.
* Make up air must be capable of running continuously upon activation of the fire suppression system.

Final Inspection:

* Address must be posted as outlined on the approved set of plans or previously approved by the Twin Falls Fire Marshal.

ENGINEERING

In order to streamline and eliminate confusion in regards to the engineering department commercial permit inspections, the following will need to be inspected prior to signing the Certificate of Occupancy. All inspections will be completed using the City of Twin Falls approved (stamped) plans.

Storm Water Facility Inspections: (3 phases)

* Inspection of excavation, including dimensions and geotextile fabric. All adjoining trenches leading to storm water facilities also need to be excavated and inspected.
* Inspection of storm drain pipes (per plans) need to be in place (not covered) for visual inspection. The drain rock must meet ISPWC section 801 Drain Rock requirements. All pipe connections to storm water facilities must be completed.
* Inspection of completed storm water facilities with the above referenced drain rock and geotextile fabric showing proper cover and overlap.

Site Inspections:

* Verify that the parking lot layout (design) & striping matches the plans
* Verify that the parking lot surface is an approved "hard" surface
* Verify that there is ADA compliant access from the Right-of-Way(ROW) to the building envelope

Right-Of-Way Inspections:

* Verify driveway approach widths & locations according to plans
* Verify ADA compliance of Curb/Gutter, Sidewalks, and Sidewalk/Driveway combinations
* Verify ROW connections to other Agencies/Entities meet's ADA tolerances

Flood Plain Inspections:

* Verify flood plain location and compare plans to the site
* Verify the commercial buildings are one foot above base flood elevation

When ready for inspection please call the Engineering inspection line at (208) 735-3446 for same day inspections call before 7:30 am. Having these inspections approved when the work has been completed will ensure the Certificate of Occupancy is issued in a timely manner.

BUILDING

Footing/Foundation Inspection:

* All re-bar must be tied in place at time of inspection.
* All hold down anchors installed properly.

Shear Inspection:

* All hold downs must be installed per approved plans and manufacturers installation guide.
* Fasteners should not be overdriven and shiners should be removed and/or replaced.
* Install the correct type of fastener at the correct spacing.

Framing Inspection:

* Accessibility standards are in compliance. (ICC A117.1-2009)
* Required load paths to footing for all load points are installed.
* Stair rise and treads must meet code requirements.
  *Min rise 4", Max rise 7", Max tread 11"
  *Min nosing is 3/4", Max nosing is 1 1/4" and cannot differ in length by more than 3/8"
* Provide required up-lift protection for all trusses.

Final Inspection:

* Landings to meet minimum code requirements. (Doors 1010.1.6, Ramps 1012.6, Stairs 1011.6)
* Accessibility Standards are in compliance.(ICC A117.1-2009)
* Egress door sign-age is posted and correct verbiage is used.
  * "DOOR TO REMAIN UNLOCKED WHILE BUILDING IS OCCUPIED"
* Correct hardware has been installed on all doors.
  *Panic hardware is installed where required.
  *Accessible hardware is installed where required.
* Handrails shall be installed where required.
* Stairways shall have handrails on each side.
* All racking and shelving to be in place.
* All Exit signs are field verified. (must be visible – nothing can block the line of sight)
* Maximum Occupancy signs posted where required.
* Special Inspection reports and balance reports need to be received by our office.

PLANNING & ZONING

Landscaping:

* Our code allows for us to issue a TCO with landscaping incomplete; however, we cannot extend the TCO beyond the current planting season. This means that we will work with the applicant on a definitive date of their choosing, but not typically beyond 2-3 months.

Trash Enclosures:

* Trash enclosures should be finished before a final inspection is requested, this includes the front gate on the enclosure. Per our code, we cannot issue a TCO if this item is not completed.

Please have Address posted on site for all inspections.
Please have a printed color copy of City Approved Plans & Inspection Cards on site for all inspections.

FINAL INSPECTION INFORMATION

COMMERCIAL OCCUPANCY

Final inspections are required by multiple City Departments/Inspectors prior to getting your Certificate of Occupancy.

Make sure to have the approved set of plans and inspection card on site for all inspections.

If you have Special Inspections: Once the required special inspections have been completed a final report needs to be submitted to the building department certifying corrections of any discrepancies noted in the special inspection reports. This final report can be submitted any time before requesting occupancy.

* Required Site Work inspections may be requested and completed as the work is done or as required by the specific department by contact the following:

- Planning & Zoning (parking and landscaping)
  Planner-208-735-7270 or Office-208-735-7267
- Engineering (Retention, curb, gutter, sidewalk, drive approaches)
  Lab inspection line 208-735-3446
- Street Department (road cuts)
  Office- 208-736-2226

* When you are ready for any Fire Department inspections please call (extinguishers, fire/alarm/sprinkler systems):
  Fire Inspection Line- 208-735-7338

* When you are ready for a building final inspection on the structure:
  Make sure you have the final inspections on the plumbing, electrical, and mechanical work.
  Call the building inspection line 208-735-7333
  All departments will be notified by this office to go do their final inspection.

If there is an elevator in the building please contact the Division of Building Safety at the following link for any permits/inspections: http://dbs.idaho.gov/programs/industrial/faqEL.html

Once ALL the departments have signed the Certificate of Occupancy the Building Official will sign and then it will be ready to be picked-up or emailed.

If you need a Temporary Certificate of Occupancy there is a $1,000 refundable deposit required. All departments are required to sign and give a list of outstanding issues. Once the temporary is all signed & the list made you will need to come in and sign stating you know what those issue are, that you will have them completed by the specified time, and will call for inspection as those items are completed. It is up to each department to determine if you meet their qualification for temporary occupancy.

Note: If a building was originally done as a shell, the shell building permit is required to be finaled prior the tenant improvement permits can be finaled. In addition, if Temporary Occupancy is needed there will be $1,000 refundable deposit for each permit.

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE FOR ALL INSPECTIONS

2018 IBC Section 105.4 Validity of Permit: The issuance or granting of a permit shall not be a permit for, or approval of, any violation of any of the provisions of this code or of any other ordinances of the jurisdiction. Permits presuming to give authority to violate or cancel the provisions of this code or other ordinances of the jurisdiction shall not be valid. The issuance of a permit based on construction documents and other data shall not prevent the building official from requiring the correction of errors in the construction documents and other data. The building official is authorized to prevent occupancy or use of a structure where in violation of this code or of any other ordinance of this jurisdiction.

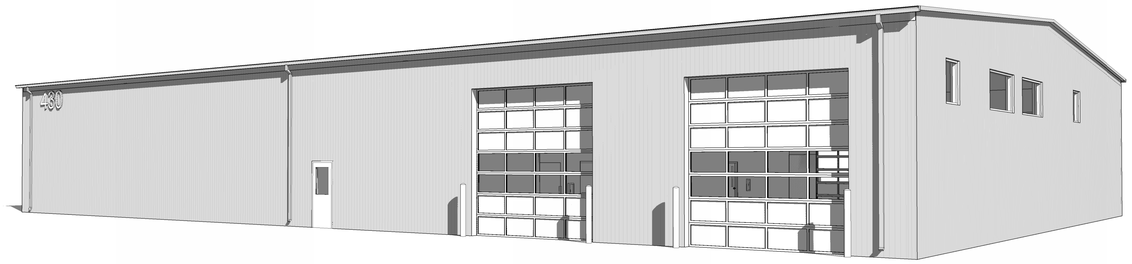
City of Twin Falls - General Inspection Notes

TWIN FALLS TRAINING FACILITY

430 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

02/29/2024

PIVOT NORTH ARCHITECTURE PROJECT #: 19-029



OWNER
CITY OF TWIN FALLS
203 MAIN AVE. E
TWIN FALLS, ID 83301
PHONE: 208.735.7231 CONTACT: LES KENWORTHY MOBILE: N/A
FAX: 208.733.3146 E-MAIL: lkenworthy@tfid.org INTERNET: https://www.tfid.org

ARCHITECT
PIVOT NORTH ARCHITECTURE
116 SOUTH 6TH STREET
BOISE, IDAHO 83702
PHONE: 208.690.3108 CONTACT: CLINT SIEVERS MOBILE: N/A
FAX: N/A E-MAIL: clint@pivotnorthdesign.com INTERNET: www.pivotnorthdesign.com

FIRE DESIGN CONSULTANT
RICE FERGUS MILLER
275 FIFTH ST. SUITE 100
BREMERTON, WA 98337
PHONE: 360.377.8773 CONTACT: GUNNAR GLADICS MOBILE: N/A
FAX: N/A E-MAIL: ggladics@rfmarch.com INTERNET: www.rfmarch.com

LANDSCAPE ARCHITECT
THE LAND GROUP, INC
462 E SHORE DR, SUITE 100
EAGLE, ID 83616
PHONE: 208.939.4041 CONTACT: BOB SCHAFER MOBILE: N/A
FAX: 208.939.4445 E-MAIL: bob@thelandgroupinc.com INTERNET: www.thelandgroupinc.com

CIVIL ENGINEER
THE LAND GROUP, INC
462 E SHORE DR, SUITE 100
EAGLE, ID 83616
PHONE: 208.939.4041 CONTACT: ERIC CRONIN MOBILE: N/A
FAX: 208.939.4445 E-MAIL: eric@thelandgroupinc.com INTERNET: www.thelandgroupinc.com

STRUCTURAL ENGINEER
KPFF
412 E PARKCENTER BLVD, SUITE 200
BOISE, ID 83706
PHONE: 208.336.6985 CONTACT: JUDD WILLIAMS MOBILE: N/A
FAX: N/A E-MAIL: Judsen.Williams@kpff.com INTERNET: www.kpff.com

MECHANICAL ENGINEER
CATOR RUMA & ASSOCIATES, CO.
420 S ORCHARD STREET
BOISE, ID 83705
PHONE: 208.343.3663 CONTACT: JEFF JESSE MOBILE: 303.468.8455
FAX: N/A E-MAIL: JJesse@catorruma.com INTERNET: www.catorruma.com

ELECTRICAL ENGINEER
CATOR RUMA & ASSOCIATES, CO.
420 S ORCHARD STREET
BOISE, ID 83705
PHONE: 208.343.3663 CONTACT: KYLE OLSON MOBILE: N/A
FAX: N/A E-MAIL: KOlson@catorruma.com INTERNET: www.catorruma.com

CONTRACTOR
STARR CORPORATION
2995 E 3600 N
TWIN FALLS, ID 83301
PHONE: 208.733.5695 CONTACT: MICHAEL ARRINGTON MOBILE: N/A
FAX: N/A E-MAIL: michaela@starrcorporation.com INTERNET: www.starrcorporation.com

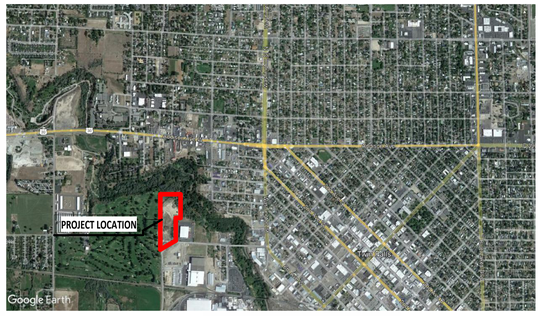
APPLICABLE CODES

ACCESSIBILITY CODE	ICC/ANSI A117.1/ IBC CODE
INTERNATIONAL BUILDING CODE	2018 EDITION (WITH IDAHO STATE AMENDMENTS)
INTERNATIONAL ENERGY CONSERVATION CODE	2018 EDITION
INTERNATIONAL FIRE CODE	2018 EDITION
INTERNATIONAL MECHANICAL CODE	2018 EDITION
INTERNATIONAL PLUMBING CODE	2017 IDAHO STATE PLUMBING CODE
NATIONAL ELECTRICAL CODE	2017 EDITION (WITH IDAHO STATE AMENDMENTS)
ZONING ORDINANCE:	TWIN FALLS

OTHER CRITERIA

DEFERRED SUBMITTALS

FIRE SPRINKLER SYSTEM
AMERICAN BUILDING SYSTEM



VICINITY MAP:

DRAWING INDEX:

pivot north ARCHITECTURE
PIVOT NORTH ARCHITECTURE
116 S. 6th STREET
BOISE, ID 83702
www.pivotnorthdesign.com

STAMP:

LICENSED PROFESSIONAL ARCHITECT AR-98194 STATE OF IDAHO CLINT SIEVERS

RICE fergus MILLER

23-0188 CO #2

Project: TWIN FALLS TRAINING FACILITY
430 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

Revisions: △

PERMIT SET - 02.29.2024

Project No:	19-029
Date:	02/29/2024
Checked By:	TB/RC
Drawn By:	TB/AM

Sheet Name:
COVER SHEET

Sheet No:
G0.00

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE
FOR ALL INSPECTIONS

2/29/2024 2:17:53 PM

SYMBOLS:

KEYNOTE TAG

REFERENCE TAG

ACCESSORY TAG

GRID/LEVEL HEAD

WALL TYPE TAG

WINDOW TAG

DOOR TAG

ROOM TAG

CASEWORK TAG

WALL SECTION

BUILDING SECTION

DETAIL OR ENLARGED PLAN CALLOUT

INTERIOR ELEVATION

BUILDING ELEVATION

LEVEL NAME / ELEVATION MARKER

NORTH ARROW

VIEW TITLE

GRAPHIC SCALE

ABBREVIATIONS:

#	NUMBER OR POUND	JAN	JANITOR
ø	DIAMETER	JST	JOIST
	ANGLE	JT	JOINT
@	AT		
&	AND	LAB	LABORATORY
CL	CENTERLINE	LAM	LAMINATE
		LAV	LAVATORY
AB	ANCHOR BOLT		
ACP	ACOUSTICAL CEILING PANEL	MAT	MATERIAL
ACT	ACOUSTICAL CEILING TILE	MAX	MAXIMUM
ADJ	ADJUSTABLE	MECH	MECHANICAL
AFF	ABOVE FINISH FLOOR	MET	METAL
ALUM	ALUMINUM		
ANOD	ANODIZED	MFR	MANUFACTURER
APPROX	APPROXIMATE	MIN	MINIMUM
ASSOC	ASSOCIATED	MISC	MISCELLANEOUS
AWP	ACOUSTICAL WALL PANEL	ML	MEASURING LINE
AWS	ACOUSTICAL WALL SYSTEM	MO	MASONRY OPENING
		MTD	MOUNTED
BD	BOARD	MTG	MOUNTING
BFC	BROOM FINISH CONCRETE		
BLDG	BUILDING	NA	NOT APPLICABLE
BLKG	BLOCKING	NB	NO BASE (EXPOSED
BM	BEAM		WALL OR FOUNDATION)
BO	BOTTOM OF	NC	NEW CONCRETE
BOT	BOTTOM	NIC	NOT IN CONTRACT
BRG	BEARING	NM	NEW MASONRY
BSMT	BASEMENT	NO	NUMBER
BTWN	BETWEEN	NOM	NOMINAL
		NTS	NOT TO SCALE
CAB	CABINET		
CPT	CARPET	OC	ON CENTER
C.I.P.	CAST-IN-PLACE	OD	OUTSIDE DIAMETER
CJ	CONTROL JOINT	OFF	OFFICE
CL	CENTERLINE	OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED
CLG	CEILING	OFOI	OWNER FURNISHED/OWNER INSTALLED
CMU	CONCRETE MASONRY UNITS	OPNG	OPENING
CO	CLEAN OUT	OTA	OPEN TO ABOVE
COL	COLUMN	OTS	OPEN TO STRUCTURE
CONC	CONCRETE	OVF	OVERFLOW
CONST	CONSTRUCT		
CONT	CONTINUOUS	PC	PAINT COLOR
CSK	COUNTERSINK	P.I.V.	POST INDICATOR VALVE
CMT	CERAMIC MOSAIC TILE	PLAST	PLASTIC
CQT	CERAMIC QUARRY TILE	PLYWD	PLYWOOD
CWB	CERAMIC WALL BASE	PR	PAIR
DBL	DOUBLE	R	THERMAL RESISTANCE
DEPT	DEPARTMENT	RCP	REFLECTED CEILING PLAN
DT	DETAIL	RD	ROOF DRAIN
DF	DRINKING FOUNTAIN	RDL	RAIN DRAIN LEADER
DIA	DIAMETER	RE:	REFERENCE
DIM	DIMENSION	REFRIG	REFRIGERATOR
DN	DOWN	REINF	REINFORCING
DS	DOWNSPOUT	REQ	REQUIRED
		RF	EPOXY FLOOR SYSTEM
EA	EACH	RM	ROOM
EBT	EXPANSION BASE TRIM	RO	ROUGH OPENING
EJ	EXPANSION JOINT	RST	RUBBER STAIR TREADS
ELEC	ELECTRICAL	RW	REDWOOD
ELEV	ELEVATION	RWB	RUBBER WALL BASE
EP	EPOXY PAINT	RWC	RAIN WATER CONDUCTOR
EQ	EQUAL		
EQUIP	EQUIPMENT	SC	SEALED CONCRETE
ESTR	EXPOSED STRUCTURE	SCHED	SCHEDULE
	(NEW OR EXISTING)	SCW	SOLID CORE WOOD
EIFS	EXTERIOR INSULATION	SGWB	SUSPENDED GYPSUM
	& FINISH SYSTEM		WALL BOARD
EXIST	EXISTING	SHT	SHEET
EXP	EXPANSION	SHTG	SHEATHING
EXT	EXTERIOR	SIM	SIMILAR
		SPECS	SPECIFICATIONS
FD	FLOOR DRAIN	SQ	SQUARE
F.D.C.	FIRE DEPARTMENT CONNECTION	SS	STAINLESS STEEL
FB	FIRE BLANKET	STD	STANDARD
FE	FIRE EXTINGUISHER	STL	STEEL
FF	FACTORY FINISH	STOR	STORAGE
F.H.	FIRE HYDRANT	STRUCT	STRUCTURAL
FIN	FINISH	SUSP	SUSPENDED
FL	FLOOR LINE	SV	SHEET VINYL
FLR	FLOOR		
FND	FOUNDATION	T&G	TONGUE AND GROOVE
FOC	FACE OF CHANNEL	TEMP	TEMPORARY
FOF	FACE OF FINISH	TO	TOP OF
FOS	FACE OF STUDS	TOM	TOP OF MASONRY
FT	FEET	TS	TUBE STEEL
FTG	FOOTING	TYP	TYPICAL
FV	FIELD VERIFY		
		UON	UNLESS OTHERWISE NOTED
GA	GAUGE		
GALV	GALVANIZED	VAR	VARIES
GB	GYPSUM BOARD	VCT	VINYL COMPOSITION TILE
GYP.BD.	GYPSUM BOARD	VERT	VERTICAL
		VEST	VESTIBULE
HAS	HEAD ANCHOR STUD		
HCW	HOLLOW CORE WOOD	W/	WITH
HM	HOLLOW METAL	WC	WATER CLOSET
HORIZ	HORIZONTAL	WD	WOOD
HT	HEIGHT	WF	WALL FABRIC
HW	HARDWOOD	WH	WATER HEATER
		WM	WALK-OFF MAT
ICMU	INTEGRAL COLORED CONCRETE MASONRY UNITS	W/O	WITHOUT
ID	INSIDE DIAMETER	WP	WATERPROOF
INSUL	INSULATION	WRGB	WATER RESISTANT GYPSUM BOARD
INT	INTERIOR	WT	WEIGHT
INV	INVERT	WWF	WELDED WIRE FABRIC

MASTER KEYNOTES:

Keynote #	Keynote Text
033000.A	CAST-IN-PLACE CONCRETE
033000.C	EXPANSION AND SLAB ISOLATION JOINT FILLER STRIP
051200.E	STEEL ANGLE
053100.A	STEEL ROOF DECKING
054000.A	STEEL STUD/JOIST
054000.B	STEEL RUNNER/TRACK
055000.A	STEEL PLATE
055000.B	STEEL ANGLE
055000.I	FIXED STEEL BOLLARD
055213.B	STEEL GUARD
061053.A	WOOD BLOCKING/NAILER
061053.F	FLOOR SHEATHING
061053.G	DIMENSIONAL LUMBER FRAMING
061600.F	PLYWOOD SHEATHING
061733.A	WOOD I-JOIST
064100.A	PLASTIC-LAMINATE-FACED CABINET
064100.G	PLASTIC LAMINATE FACED COUNTERTOP
066413.A	FIBERGLASS REINFORCED PANEL
071113.A	BITUMINOUS DAMPPROOFING
072100.A	MOLDED, RIGID CELLULAR POLYSTYRENE BOARD INSULATION
072100.C	SLAG-WOOL-FIBER/ROCK WOOL FIBER BLANKET INSULATION (FIRESAFING)
072100.D	SOUND ATTENUATION BLANKET INSULATION
074213.13.A	FORMED METAL WALL PANELS
074213.13.G	FLASHING AND TRIM
076200.C	METAL FLASHING AND TRIM
076200.H	HANGING GUTTER
076200.J	DOWNSPOUT
078413.B	FIRE RESISTIVE JOINT SEALANT
079200.A	JOINT SEALANT
079200.B	JOINT SEALANT BACKING
079200.C	ACOUSTICAL JOINT SEALANT
081113.A	HOLLOW METAL FRAME
081113.B	HOLLOW METAL DOOR
083613.A	SECTIONAL DOOR
083613.B	DOOR TRACK
085113.A	FIXED ALUMINUM WINDOW
088000.C	INSULATED GLASS UNIT
092216.A	STEEL STUD FRAMING (NON-LOAD-BEARING)
092900.A	GYPSUM WALL BOARD, TYPE X
092900.E	GLASS-MAT INTERIOR GYPSUM BOARD
093000.B	METAL COVE BASE
093000.D	CERAMIC WALL TILE
093000.E	PORCELAIN TILE WALL BASE
095100.A	ACOUSTICAL PANEL CEILING
096500.D	RESILIENT STAIR TREAD/RISER/NOSING
099123.A	INTERIOR PAINT
101400.A	PANEL SIGNAGE
101419.A	ALUMINUM BUILDING SIGNAGE
102123.B	SHOWER & CURTAIN ROD
102600.A	CORNER GUARD
102600.B	WALL PROTECTION
102800.B	C.F.C.I. MIRROR
102800.D	WALL-MOUNTED CLOTHES HOOK
102800.E	GRAB BARS
102800.F	SHOWER CURTAIN, ROD & HOOKS
102800.G	L-SHAPED SHOWER SEAT
104400.A	FIRE EXSTINGUISHER CABINET
113100.A	O.F.O.I. MICROWAVE
113100.B	O.F.O.I. REFRIGERATOR/FREEZER
113100.C	O.F.O.I. ICE MAKER
123600.A	QUARTZ COUNTERTOPS

LINE STYLES

1
1 - CENTERLINE 1/8"
1 - HIDDEN 1/16"
2
3
4
5
6
7
8
9
10
<Beyond>
<Centerline>
<Demolished>
<Hidden>
<Overhead>

ROOM TAGS

ROOM TAG

ROOM TAG - WITH AREA

ROOM TAG - AREA ONLY

ROOM TAG - SMALL

ROOM TAG - SMALL WITH AREA

ROOM TAG - OCCUPANCY

MASS AREA TAG

VIEWS

BUILDING SECTION

WALL SECTION

REFERENCE SECTION

DETAIL SECTION

EXTERIOR ELEVATION

INTERIOR ELEVATION

DEPENDANT VIEW REFERENCE

SHEETS

VIEW TITLE

VIEW TITLE - NOT TO SCALE

PRESENTATION VIEW TITLE

PRESENTATION VIEW TITLE w/ SCALE

NORTH ARROW

REVISION CLOUD

DIMENSIONS

LINEAR DIMENSION

LINEAR DIMENSION (INCHES)

LINEAR DIMENSION (ROUND - 1/2")

LINEAR DIMENSION (ROUND - 1/4")

LINEAR DIMENSION (ROUND - 1/8")

LINEAR DIMENSION (ROUND - 1")

LINEAR DIMENSION (ROUND - 1/256")

LINEAR DIMSNSION (OPEN ENDED)

RADIAL DIMENSION

ANGULAR DIMENSION

LEVEL HEAD

SPOT ELEVATION SYMBOL

TAGS

DOOR NUMBER TAG

DOOR TYPE TAG

DOOR OCCUPANCY TAG

FURNITURE TAG

KEYNOTE TAG

REFERENCE NOTE TAG

SPECIALTY EQUIOPMENT TAG

WALL TAG

WINDOW TAG

AWI CASEWORK TAG

SYMBOLS

CENTER LINE

GRID BUBBLE

OCCUPANCY EXIT WIDTH

OCCUPANCY EXIT DIRECTION

PROPERTY LINE CORNER PIN

SITE MONUMENT

GRAPHIC SCALE

ADA WHEELCHAIR SYMBOL

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE FOR ALL INSPECTIONS

pivot north ARCHITECTURE

PIVOT NORTH ARCHITECTURE, PLLC.
116 S. 6TH STREET
BOISE, ID 83702
www.pivotnorthdesign.com

STAMP

LICENSED PROFESSIONAL ARCHITECT
AR 984394
STATE OF IDAHO
CLINT SIEVERS

RICE*fergus*MILLER

Project: TWIN FALLS TRAINING FACILITY
430 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

PERMIT SET - 02.29.2024

Project No: 19-029
Date: 02/29/2024
Checked By: TB/RC
Drawn By: AM

Sheet Name:
DRAWING INFORMATION

Sheet No:
G0.02

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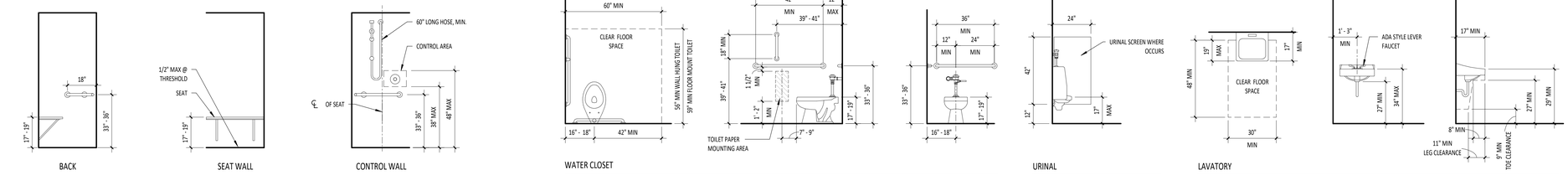
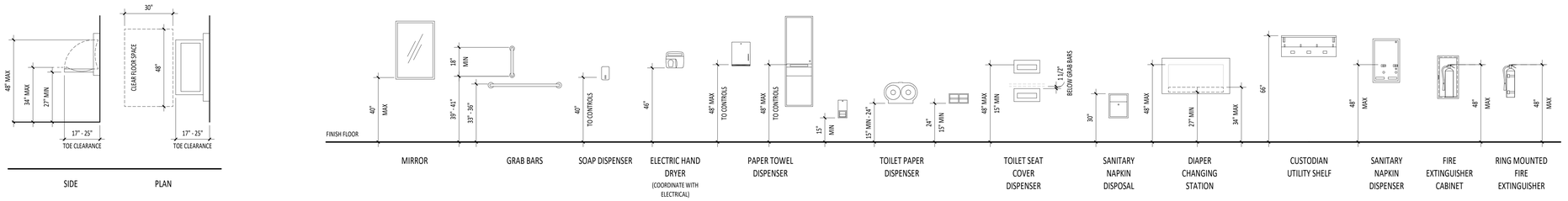


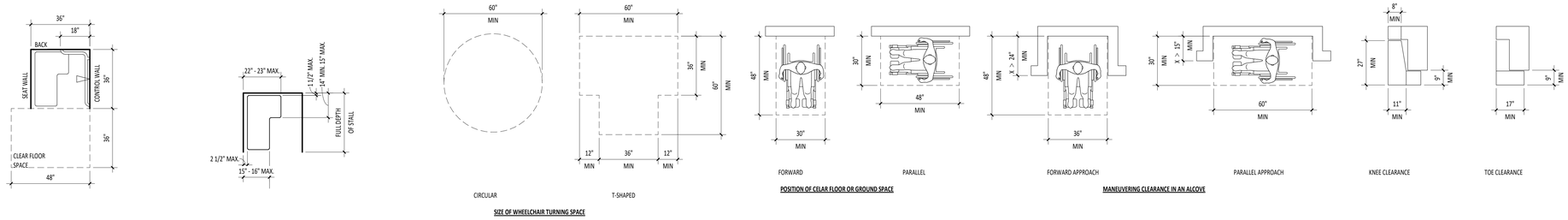
A1 G0.03 ACCESSIBLE 36"X36" SHOWER STALL
3/8" = 1'-0"

A3 G0.03 ACCESSIBLE FIXTURE CLEARANCE REQUIREMENTS
3/8" = 1'-0"



B1 G0.03 DIAPER CHANGING STATION
3/8" = 1'-0"

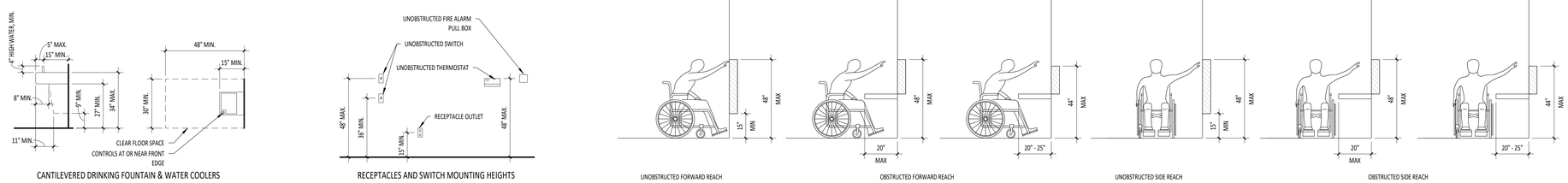
B2 G0.03 TYPICAL ACCESSORIES MOUNTING HEIGHTS
3/8" = 1'-0"



C1 G0.03 TRANSFER SHOWER STALL
3/8" = 1'-0"

C2 G0.03 SHOWER SEAT DETAIL
3/8" = 1'-0"

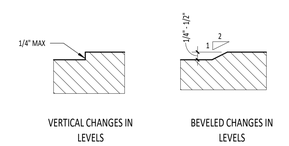
C3 G0.03 CLEAR FLOOR SPACES
3/8" = 1'-0"



D1 G0.03 DRINKING FOUNTAINS
3/8" = 1'-0"

D2 G0.03 MISC. MOUNTING HEIGHTS
3/8" = 1'-0"

D3 G0.03 REACH RANGES
3/8" = 1'-0"



E5 G0.03 CHANGE IN LEVELS
6" = 1'-0"

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE FOR ALL INSPECTIONS

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PIVOT NORTH ARCHITECTURE, PLLC.
1101 W. GROVE STREET
BOISE, ID 83702
www.pivotnorthdesign.com

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LICENSED PROFESSIONAL ARCHITECT AR 984494 STATE OF IDAHO CLINT SIEVERS

RICEfergusMILLER

Project: TWIN FALLS TRAINING FACILITY
430 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

PERMIT SET - 02.29.2024

Project No:	19-029
Date:	02/29/2024
Checked By:	TB/RC
Drawn By:	AM

Sheet Name:
ACCESSIBILITY COMPLIANCE

Sheet No:
G0.03

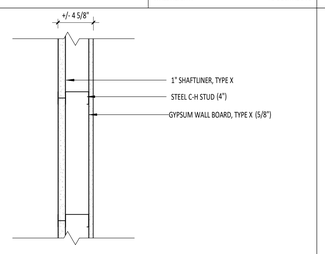
2/29/2024 2:17:56 PM

WALL TYPES

1 1/2" = 1'-0"

WALL S41

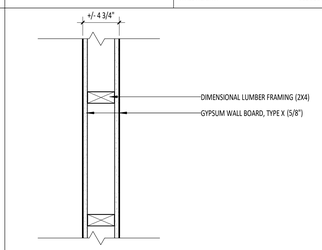
FIRE RATING: 1-HOUR
FIRE TEST: GA WP 6850
SOUND RATING:
WALL HEIGHT: TO DECK ABOVE



INTERIOR — FIRE RISER 108

WALL W46

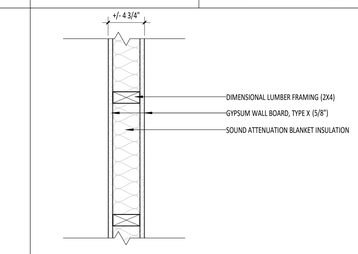
FIRE RATING: NON-RATED
FIRE TEST: NONE
SOUND RATING:
WALL HEIGHT: SEE SECTIONS



INTERIOR — INTERIOR

WALL W46S

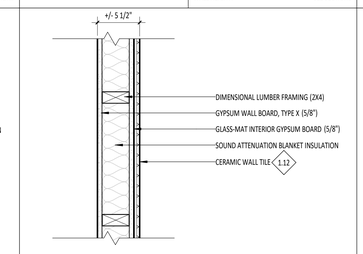
FIRE RATING: NON-RATED
FIRE TEST: NONE
SOUND RATING:
WALL HEIGHT: SEE SECTIONS



INTERIOR — INTERIOR

WALL W46ST

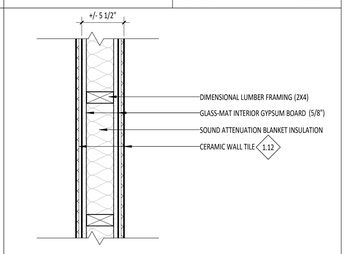
FIRE RATING: NON-RATED
FIRE TEST: NONE
SOUND RATING:
WALL HEIGHT: SEE SECTIONS



INTERIOR — INTERIOR

WALL W46STT

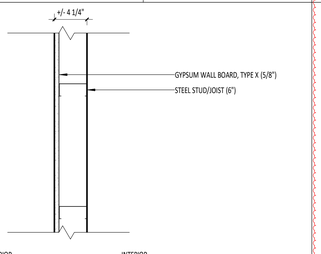
FIRE RATING: NON-RATED
FIRE TEST: NONE
SOUND RATING:
WALL HEIGHT: SEE SECTIONS



EXTERIOR — INTERIOR

WALL S48

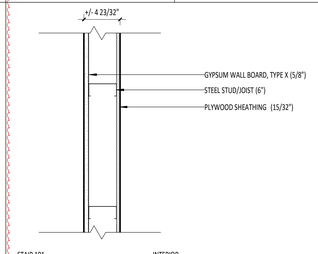
FIRE RATING: NON-RATED
FIRE TEST: NONE
SOUND RATING:
WALL HEIGHT: TO DECK ABOVE



INTERIOR — INTERIOR

WALL 2 S48P

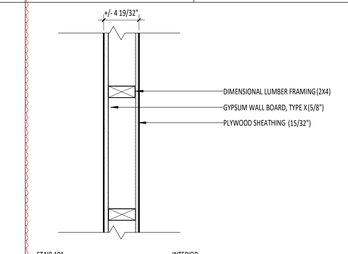
FIRE RATING: NON-RATED
FIRE TEST: NONE
SOUND RATING:
WALL HEIGHT: TO DECK ABOVE



STAIR 101 — INTERIOR

WALL W48P

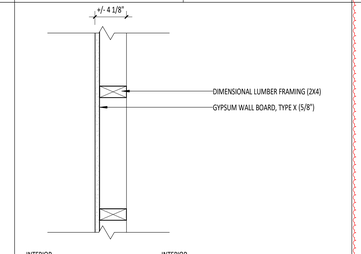
FIRE RATING: NON-RATED
FIRE TEST: NONE
SOUND RATING:
WALL HEIGHT: SEE SECTIONS



STAIR 101 — INTERIOR

WALL W49

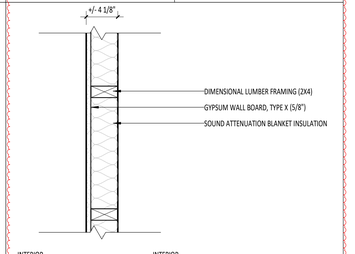
FIRE RATING: NON-RATED
FIRE TEST: NONE
SOUND RATING:
WALL HEIGHT: SEE SECTIONS



INTERIOR — INTERIOR

WALL 2 W49S

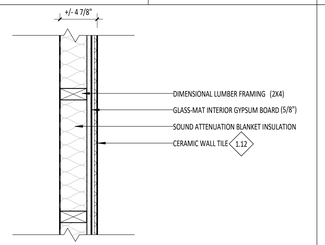
FIRE RATING: NON-RATED
FIRE TEST: NONE
SOUND RATING:
WALL HEIGHT: TO DECK ABOVE



INTERIOR — INTERIOR

WALL W49ST

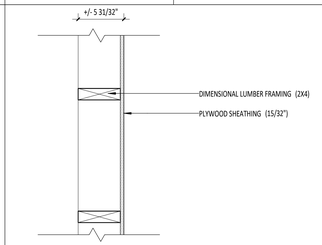
FIRE RATING: NON-RATED
FIRE TEST: NONE
SOUND RATING:
WALL HEIGHT: TO DECK ABOVE



INTERIOR — INTERIOR

WALL W60P

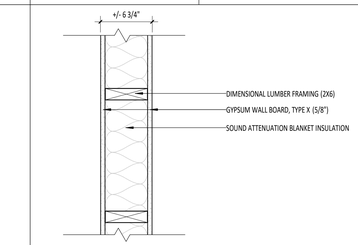
FIRE RATING: NON-RATED
FIRE TEST: NONE
SOUND RATING:
WALL HEIGHT: SEE SECTIONS



STAIR 101 — INTERIOR

WALL 2 W61S

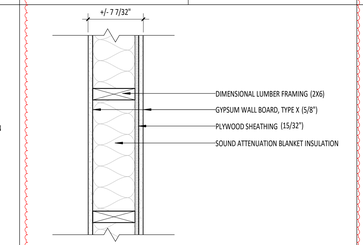
FIRE RATING: 1-HOUR
FIRE TEST: GA WP 3661
SOUND RATING: 35-39 STC
WALL HEIGHT: TO DECK ABOVE



INTERIOR — INTERIOR

WALL 2 W61SP

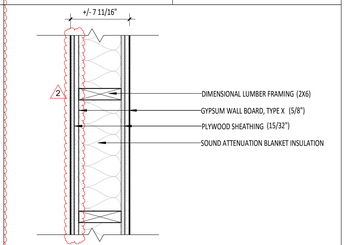
FIRE RATING: 1-HOUR
FIRE TEST: GA WP 3661
SOUND RATING: 35-39 STC
WALL HEIGHT: TO DECK ABOVE



INTERIOR — INTERIOR

WALL W61SPP

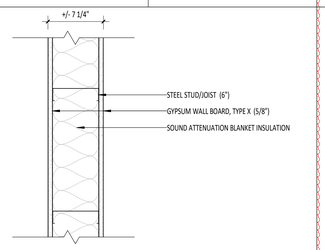
FIRE RATING: 1-HOUR
FIRE TEST: 2 GA WP 3661
SOUND RATING: 35-39 STC
WALL HEIGHT: TO DECK ABOVE



BFIRE RISER 108 — INTERIOR

WALL 2 S61S

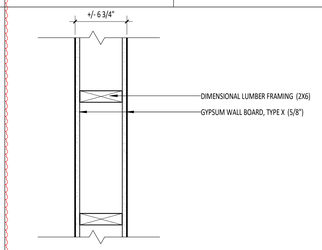
FIRE RATING: 1-HOUR
FIRE TEST: UL U425
SOUND RATING: 36
WALL HEIGHT: TO DECK ABOVE



FUTURE BUILDOUT 110 — STORAGE 201

WALL W66

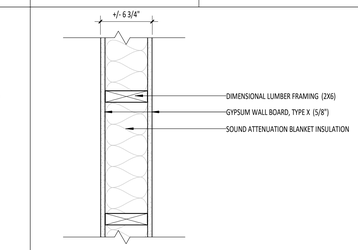
FIRE RATING: NON-RATED
FIRE TEST: NONE
SOUND RATING:
WALL HEIGHT: TO DECK ABOVE



INTERIOR — INTERIOR

WALL W66S

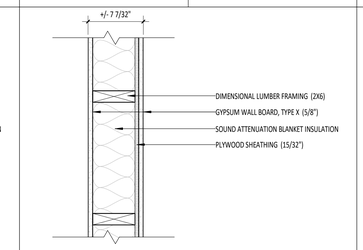
FIRE RATING: NON-RATED
FIRE TEST: NONE
SOUND RATING:
WALL HEIGHT: TO DECK ABOVE



INTERIOR — INTERIOR

WALL W66SP

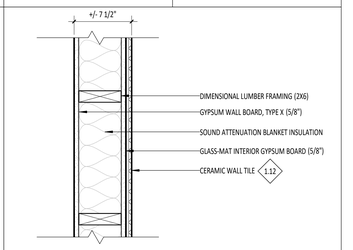
FIRE RATING: NON-RATED
FIRE TEST: NONE
SOUND RATING:
WALL HEIGHT: TO DECK ABOVE



INTERIOR — INTERIOR

WALL W66ST

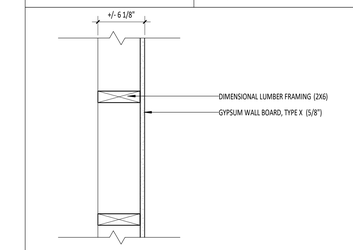
FIRE RATING: NON-RATED
FIRE TEST: NONE
SOUND RATING:
WALL HEIGHT: TO DECK ABOVE



INTERIOR — INTERIOR

WALL W68

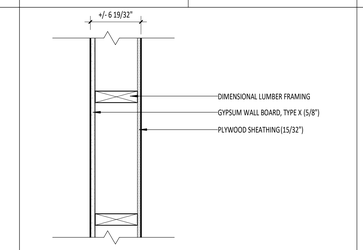
FIRE RATING: NON-RATED
FIRE TEST: NONE
SOUND RATING:
WALL HEIGHT: TO DECK ABOVE



FUTURE BUILDOUT 109 — HALLWAY 100

WALL W68P

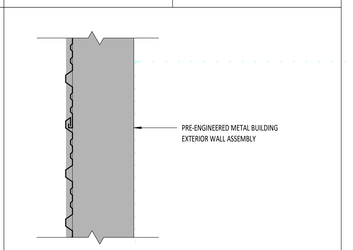
FIRE RATING: NON-RATED
FIRE TEST: NONE
SOUND RATING:
WALL HEIGHT: TO DECK ABOVE



INTERIOR — INTERIOR

WALL X-EXISTING

FIRE RATING: NON-RATED
FIRE TEST: NONE
R-VALUE R-19
WALL HEIGHT: SEE SECTIONS



EXTERIOR — INTERIOR

NOTES - REFERENCE NOTES

1.12 RE: INTERIOR ELEVATIONS FOR HEIGHT.

GENERAL NOTES - WALL TYPES

1. WALL TYPES DESCRIBED ON THIS SHEET DO NOT ACCOUNT FOR REQUIRED BACKING AND/OR SUPPORT FOR WALL MOUNTED FIXTURES, EQUIPMENT, CASEWORK AND/OR SYSTEMS FURNITURE. COORDINATE WITH ENLARGED FLOOR PLANS, INTERIOR ELEVATIONS AND EQUIPMENT PLANS PRIOR TO THE COVERING OF STUD FRAMING. REFER TO MANUFACTURER'S RECOMMENDATIONS AND USE DETAIL E6/G0.05 WHERE APPLICABLE.
2. PROVIDE SEISMIC BRACING PER DETAIL E6/G0.05 AT ALL WALL TYPES THAT DO NOT EXTEND TO DECK.
3. SEE B5/G2.01b FOR PARTITION PRIORITY LEGEND FOR SEQUENCING OF RATED WALL CONSTRUCTION.
4. PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE SEALED AS PER MANUFACTURERS RECOMMENDATION AND IN ACCORDANCE W/ ASSOCIATED UL LISTING.
5. WALL THICKNESS DESCRIBED ON THIS SHEET ARE SHOWN NOMINALLY IN PLAN REPRESENTATIONS.
6. HORIZONTAL BRACING 2'-0" A.F.F. AT FIRST OCCURRENCE AND EVERY 4'-0" THEREAFTER AT ALL WALLS W/ GYPSUM WALL BOARD ON ONLY ONE SIDE.
7. AT ALL WALLS WITH SOUND ATTENUATION, SEAL TOP OF WALL AT STRUCTURE AND BOTTOM OF WALL WITH ACOUSTICAL SEALANT.
8. FOR ALL WALLS WITH TILE, TUBS, AND/OR SHOWERS, USE 5/8" GLASS-MAT GYPSUM WALLBOARD. REFER TO WALL TYPES AND FLOOR PLANS.
9. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY IF CLEARANCES AND ADA REQUIREMENTS ARE NOT ACHIEVED.

LEGEND

- PRE-ENGINEERED RIGID FRAME STRUCTURE PROVIDED BY OTHERS (CUT POCHE)
- PRE-ENGINEERED RIGID FRAME STRUCTURE PROVIDED BY OTHERS (SURFACE)

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE FOR ALL INSPECTIONS

PERMIT SET - 02.29.2024

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PIVOT NORTH ARCHITECTURE, PLLC.
116 S. 6TH STREET
BOISE, ID 83702
www.pivotnorthdesign.com

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LICENSED PROFESSIONAL ARCHITECT AR 984794 STATE OF IDAHO CLINT SIEVERS

RICEfergusMILLER

Project: TWIN FALLS TRAINING FACILITY
430 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

1	CITY REVISIONS	02/27/2023
2	CITY REVISIONS	02/26/2024

Project No: 19-029
Date: 02/29/2024
Checked By: TB/RC
Drawn By: TB/AM

Sheet Name: WALL TYPES & RATED ASSEMBLIES

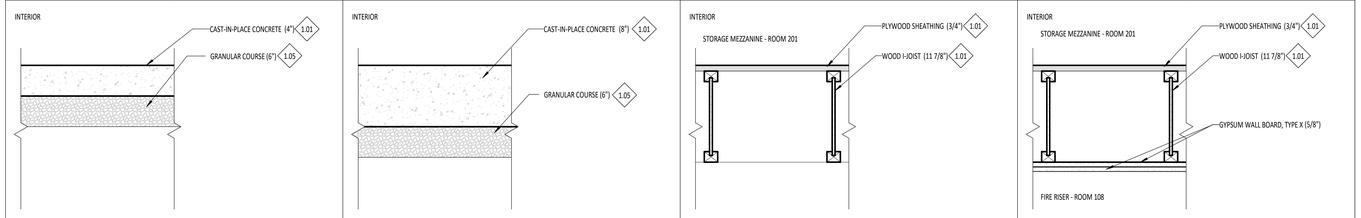
Sheet No: G0.04

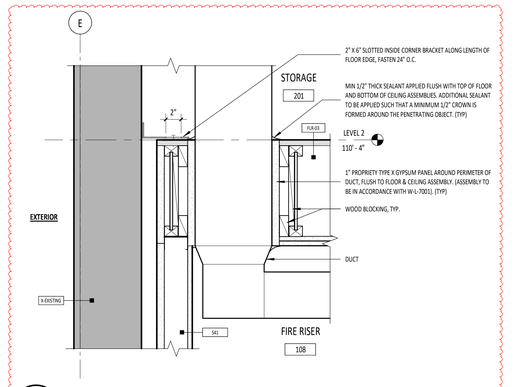
2/29/2024 2:17:58 PM

FLOOR TYPES

1 1/2" = 1'-0"

FLOOR	FIRE RATING:	FIRE TEST:	STC RATING:
FLR-01			
FLR-02			
FLR-03			
FLR-04	1 HOUR	GA-FC-5406	35-39 STC





A5 / G0.05 — 1 - HR DUCT PENETRATION DETAIL (HORIZONTAL ASSEMBLY)

1 1/2" = 1'-0"

NOTES - REFERENCE NOTES

1.01	COORDINATE WITH STRUCTURAL DRAWINGS.
1.05	COORDINATE WITH CIVIL AND LANDSCAPE DRAWINGS.
5.22	Z-PERLINS (BEYOND) OF PREMANUFACTURED METAL BUILDING ROOF ASSEMBLY TO BE PROVIDED BY OTHERS. RE: PRE-ENGINEERED METAL BUILDING DRAWINGS. COORDINATE WITH ARCHITECT IF ANY CHANGES OCCUR.
5.23	PREMANUFACTURED METAL BUILDING ROOF ASSEMBLY TO BE PROVIDED BY OTHERS. COORDINATE WITH ARCHITECT IF ANY CHANGES OCCUR.
5.24	DEEP LEGGED NESTED STEEL TRACK. MAXIMUM 4" VERTICAL GAP BETWEEN TRACKS.
5.30	MINIMUN 18 GA. PRE-FINISHED STEEL BACKING PLATE WITH PANHEAD FASTENERS. FASTENERS TP ALIGN VERTICALLY AND BE EQUALLY SPACED. PAINT, TYP.
6.03	5/8" PLYWOOD. PROVIDE 4" GAP BETWEEN GYPSUM WALL BOARD ABOVE.
7.06	FIBER REINFORCED PANELING WITH PLYWOOD BACKING PROVIDED BY CONTRACTOR.
7.12	PREFINISHED FLASHING WITH HEMMED EDGE.
23.09	MECHANICAL AND ELECTRICAL EQUIPEMENT. FIELD VERIFY ALL SIZES AND LOCATIONS. RE: MECHANICAL AND ELECTRICAL DRAWINGS.

GENERAL NOTES - WALL TYPES

1. WALL TYPES DESCRIBED ON THIS SHEET DO NOT ACCOUNT FOR REQUIRED BACKING AND/OR SUPPORT FOR WALL MOUNTED FIXTURES, EQUIPMENT, CASEWORK AND/OR SYSTEMS FURNITURE. COORDINATE WITH ENLARGED FLOOR PLANS, INTERIOR ELEVATIONS AND EQUIPMENT PLANS PRIOR TO THE COVERING OF STUD FRAMING. REFER TO MANUFACTURER'S RECOMMENDATIONS AND USE DETAIL E6/G0.05 WHERE APPLICABLE.
2. PROVIDE SEISMIC BRACING PER DETAIL E6/G0.05 AT ALL WALL TYPES THAT DO NOT EXTEND TO DECK.
3. SEE B5/G2.01b FOR PARTITION PRIORITY LEGEND FOR SEQUENCING OF RATED WALL CONSTRUCTION.
4. PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE SEALED AS PER MANUFACTURERS RECOMMENDATION AND IN ACCORDANCE W/ ASSOCIATED UL LISTING.
5. WALL THICKNESS DESCRIBED ON THIS SHEET ARE SHOWN NOMINALLY IN PLAN REPRESENTATIONS.
6. HORIZONTAL BRACING 2'-0" A.F.F. AT FIRST OCCURRENCE AND EVERY 4'-0" THEREAFTER AT ALL WALLS W/ GYPSUM WALL BOARD ON ONLY ONE SIDE.
7. AT ALL WALLS WITH SOUND ATTENUATION, SEAL TOP OF WALL AT STRUCTURE AND BOTTOM OF WALL WITH ACOUSTICAL SEALANT.
8. FOR ALL WALLS WITH TILE, TUBS, AND/OR SHOWERS, USE 5/8" GLASS-MAT GYPSUM WALLBOARD. REFER TO WALL TYPES AND FLOOR PLANS.
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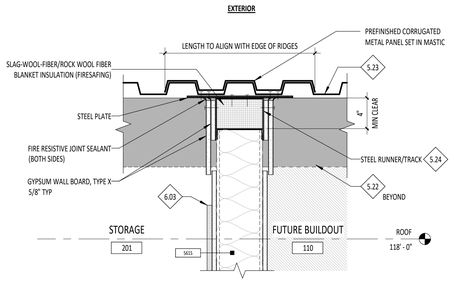
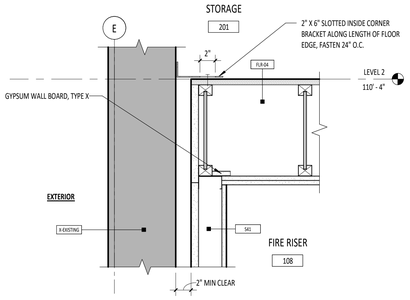
LEGEND

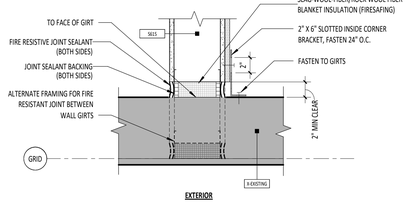
- PRE-ENGINEERED RIGID FRAME STRUCTURE PROVIDED BY OTHERS (CUT POCHE)
- PRE-ENGINEERED RIGID FRAME STRUCTURE PROVIDED BY OTHERS (SURFACE)



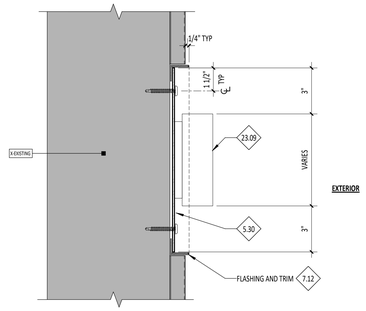
NOTE: FIRESTOP SYSTEM IS REQUIRED ONLY AT RATED WALLS. REFER TO SHEET G2.01 FOR LOCATIONS. USE APPROPRIATE UL LISTED ASSEMBLY BASED ON WALL AND STRUCTURAL DECK CONSTRUCTION.



NOTE: FIRESTOP SYSTEM IS REQUIRED ONLY AT RATED WALLS. REFER TO SHEET G2.01 FOR LOCATIONS. USE APPROPRIATE UL LISTED ASSEMBLY BASED ON WALL AND STRUCTURAL DECK CONSTRUCTION.

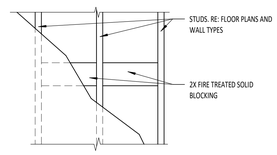


NOTE: FIRESTOP SYSTEM IS REQUIRED ONLY AT RATED WALLS. REFER TO SHEET G2.01 FOR LOCATIONS. USE APPROPRIATE UL LISTED ASSEMBLY BASED ON WALL AND STRUCTURAL DECK CONSTRUCTION.



C1 / G0.05 — FIRE STOPPING WALL TO ROOF (PERPENDICULAR TO FLUTES)

1 1/2" = 1'-0"



D1 / G0.05 — MOUNTING PLATE ELEVATION, TYP.

1/2" = 1'-0"

C2 / G0.05 — FIRE STOPPING WALL TO FIRE STOPPING FLOOR ASSEMBLY

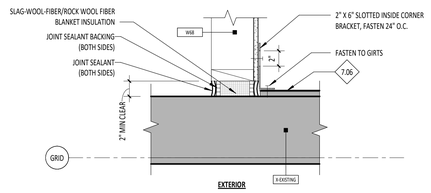
1 1/2" = 1'-0"

C4 / G0.05 — FIRE STOPPING WALL TO EXTERIOR WALL (PLAN)

1 1/2" = 1'-0"

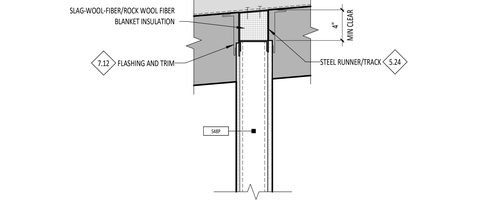
C5 / G0.05 — PENETRATION & MOUNTING DETAIL @ METAL PANEL (SECTION)

3" = 1'-0"



D4 / G0.05 — FRAMING DETAIL - INTERIOR WALL TO EXTERIOR WALL (PLAN)

1 1/2" = 1'-0"



D5 / G0.05 — FRAMING DETAIL - INTERIOR WALL TO ROOF

1 1/2" = 1'-0"

E1 / G0.05 — 1-HR DUCT PENETRATION DETAIL

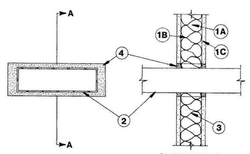
1 1/2" = 1'-0"

System No. W-L-7001

May 01, 1997

F Rating — 1 Hr

T Rating — 0 Hr



1. **Wall Assembly —** The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

   A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.

   B. **Batts and Blankets* —** Nom 1-1/2 in. thick glass fiber batts friction fitted to fill interior of stud cavities.

   C. **Gypsum Board* —** The gypsum wallboard type, thickness, number of layers and orientation shall be as specified in the individual Wall and Partition Design. Max area of opening is 48 sq in. with max dimension of 12 in.

2. **Air Duct —** Prefabricated 24 MSG sheet metal air duct. Max cross sectional area of duct is 30 sq in. with max dimension of 10 in. A min 7/16 to max 1-5/8 in. annular space is required within the firestop system. Air duct to be rigidly supported on both sides of wall assembly.

3. **Forming Material* —** Min 2-1/2 in. thickness of min 3.5 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Forming material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
THERMAFIBER INC — Type SAF

4. **Fill, Void or Cavity Material* — Sealant** — Min 1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. Dry mix material mixed with water at a rate of 2.1 parts dry mix to 1 lb part water by weight in accordance with the accompanying installation instructions.
UNITED STATES GYPSUM CO — Type FC

4A. **Fill, Void or Cavity Material* —** Not Shown — Two component fill material used as an alternate to Item 4. Min 1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. Ready-mixed component mixed with accelerator component at a rate of 66 parts of ready-mixed component to 1 parcel accelerator component by weight in accordance with the accompanying installation instructions.
UNITED STATES GYPSUM CO — Type RFC

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

E2 / G0.05 — 1-HR PIPE PENTRATION DETAIL

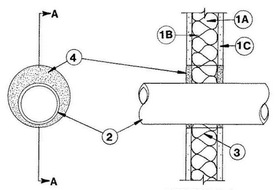
1 1/2" = 1'-0"

System No. W-L-1039

March 24, 1999

F Rating — 1 Hr

T Rating — 0 and 1 Hr (See Item 2)



1. **Wall Assembly —** The fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

   A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.

   B. **Batts and Blankets* —** Nom 1-1/2 in. thick mineral wool batts friction fitted to fill interior of stud cavities.

   C. **Gypsum Board* —** The gypsum wallboard type, thickness, number of layers and orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 6 in.

2. **Through Penetrants —** One metallic pipe, conduit or tubing to be installed in either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

   A. **Steel Pipe —** Nom 4 in. diam (or smaller) Schedule 10 (or heavier) steel pipe. The annular space shall be min 1/4 to max 1-5/8 in. **When steel pipe is used T Rating is 0 hr.**

   B. **Conduit —** Nom 4 in. diam or smaller steel electrical metallic tubing or steel conduit. The annular space shall be min 1/4 to max 1-5/8 in. **When conduit is 1/2 in. diam or less, T Rating is 1 hr.**

   C. **Copper Tubing —** Nom 4 in. diam (or smaller) Type M (or heavier) copper tubing. The annular space shall be min 1/4 to max 1-5/8 in. **When copper tubing is used, T Rating is 0 hr.**

3. **Forming Material* —** Min 2-1/2 in. thickness of min 3.5 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Forming material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
THERMAFIBER INC — Type SAF

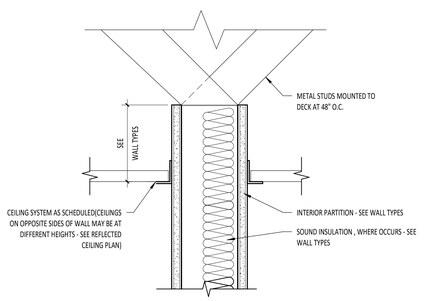
4. **Fill, Void or Cavity Material* —** Min 1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. Dry mix material mixed at a rate of 2.1 parts dry mix to 1 part water by weight in accordance with the accompanying installation instructions.
UNITED STATES GYPSUM CO — Type FC

4A. **Fill, Void or Cavity Material* —** Not Shown — Two component fill material used as an alternate to Item 4. Min 1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. Ready-mixed component mixed with accelerator component at a rate of 66 parts of ready-mixed component to 1 part of accelerator component by weight in accordance with the accompanying installation instructions.
UNITED STATES GYPSUM CO — Type RFC

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

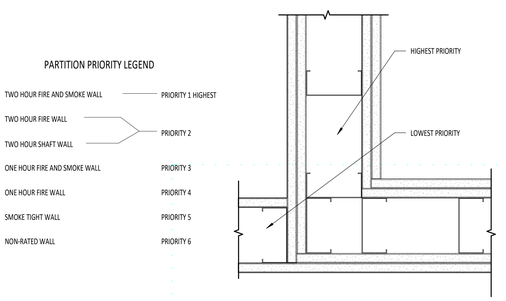
E4 / G0.05 — SEISMIC BRACING @ PARTITION WALLS, TYP.

12" = 1'-0"



E5 / G0.05 — PARTITION PRIORITY LEGEND

3" = 1'-0"



pivot north ARCHITECTURE

PIVOT NORTH ARCHITECTURE, PLLC.
116 S. 6TH STREET
BOISE, ID 83702
www.pivotnorthdesign.com

STAMP

LICENSED PROFESSIONAL ARCHITECT AR 984394 STATE OF IDAHO CLINT SIEVERS

RICEfergusMILLER

Project: TWIN FALLS TRAINING FACILITY

430 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

1	CITY REVISIONS	02/27/2023
2	CITY REVISIONS	02/26/2024

PERMIT SET - 02.29.2024

Project No:	19-029
Date:	02/29/2024
Checked By:	Checker
Drawn By:	Author

Sheet Name:

FLOOR TYPES & RATED ASSEMBLIES

Sheet No:

G0.05

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE FOR ALL INSPECTIONS

2/29/2024 2:17:59 PM

TWIN FALLS TRAINING FACILITY

CODE ANALYSIS SUMMARY

CODE ANALYSIS SUMMARY – 2018 IBC and IFC
TWIN FALLS FIRE DEPARTMENT TRAINING FACILITY
TYPE OF CONSTRUCTION: V-B **OCCUPANCY GROUPS: S-2 [PHASE I], B [PHASE II]**
BUILDING IS EQUIPPED THROUGHOUT WITH AN APPROVED AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1. THIS IS AN ENGINEERED METAL BUILDING AND WILL BE OCCUPIED VIA TWO CONSTRUCTION PHASES. PHASE I (S-2) WILL PROVIDE 2 APPARATUS BAYS AND SUPPORTING SPACES FOR GENERAL STAFF USE AND EQUIPMENT STORAGE. NO TIMELINE OR SPECIFIC PROGRAM HAS BEEN DEVELOPED FOR THE TENANT IMPROVEMENT WORK OF PHASE II.

JURISDICTION
Parcel ID: RPT0886000001A
OWNER(S): CITY OF TWIN FALLS, IDAHO
PO BOX 1907
TWIN FALLS, ID 83303

TWIN FALLS FIRE DEPARTMENT
PROJECT ADDRESS: 420 VICTORY AVE, TWIN FALLS ID 83301-5593
LAND SQUARE FOOTAGE: 518,341 SQ. FT.
LEGAL DESCRIPTION: TWIN FALLS CITY INDUSTRIAL SUBDIVISION LOT 1, EXC TAX #1812 (17-10-17 NE) (63-602A)

ZONING INFORMATION
M-2: HEAVY MANUFACTURING DISTRICT - INDUSTRIAL USES
USECODE:
TAX CODE AREA:
TAXABLE:
PROPERTY TYPE:
TOTAL ACRES: 11.96249

NEW CONSTRUCTION
YEAR PERMITTED 2023

APPLICABLE CODES
2018 INTERNATIONAL BUILDING CODE (IBC), WITH IDAHO STATE AMENDMENTS
2018 INTERNATIONAL FIRE CODE (IFC)
2018 INTERNATIONAL MECHANICAL CODE (IMC)
2017 NATIONAL ELECTRICAL CODE (NEC)
2017 IDAHO STATE PLUMBING CODE - BASED ON THE 2015 UNIFORM PLUMBING CODE (UPC)

ENERGY CODE
2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), WITH IDAHO STATE AMENDMENTS

ACCESSIBILITY CODES
2018 INTERNATIONAL BUILDING CODE - USED AS SAFE HARBOR
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
2009 ICC A117.1-2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

BUILDING SEPARATION:
- **NORTH SIDE:** ESTIMATE DIST. TO PROPERTY LINE = 875'-0"
- **EAST SIDE:** ESTIMATE INTERIOR LOT LINE; DIST. TO PROPERTY LINE = 600'
- **SOUTH SIDE:** ESTIMATE PUBLIC WAY; DIST. TO PROPERTY LINE = 675'
- **WEST SIDE:** ESTIMATE INTERIOR LOT LINE; DIST. TO BUILDING = 175'

CHAPTER 5: GENERAL BUILDING HEIGHTS AND AREAS
HEIGHT CALCULATION, S-2, B OCCUPANCY (USE MOST RESTRICTIVE) 2018 IBC-504.3:
HEIGHT ALLOWED = 60 FT. (TABLE 504.3), ACTUAL HEIGHT = APPROX. 22'
STORIES ALLOWED = 3 (TABLE 504.4), ACTUAL STORIES = 1
ALLOWABLE AREA - 2018 IBC-TABLE 506.2: 36,000 SQ. FT., ACTUAL GROSS = 10,414 SQ. FT.

THE BUILDING WILL BE EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM.

CHAPTER 5: GENERAL BUILDING HEIGHTS AND AREAS
505.2 MEZZANINES
A MEZZANINE OR MEZZANINES IN COMPLIANCE WITH SECTION 505.2 SHALL BE CONSIDERED A PORTION OF THE STORY BELOW. SUCH MEZZANINES SHALL NOT CONTRIBUTE TO EITHER THE BUILDING AREA OR NUMBER OF STORIES AS REGULATED BY SECTION 503.1. THE AREA OF THE MEZZANINE SHALL BE INCLUDED IN DETERMINING THE FIRE AREA. THE CLEAR HEIGHT ABOVE AND BELOW THE MEZZANINE FLOOR CONSTRUCTION SHALL BE NOT LESS THAN 7 FEET (2134 MM).
505.2.1 AREA LIMITATION.
THE AGGREGATE AREA OF A MEZZANINE OR MEZZANINES WITHIN A ROOM SHALL BE NOT GREATER THAN ONE-THIRD OF THE FLOOR AREA OF THAT ROOM OR SPACE IN WHICH THEY ARE LOCATED. THE ENCLOSED PORTION OF A ROOM SHALL NOT BE INCLUDED IN A DETERMINATION OF THE FLOOR AREA OF THE ROOM IN WHICH THE MEZZANINE IS LOCATED. IN DETERMINING THE ALLOWABLE MEZZANINE AREA, THE AREA OF THE MEZZANINE SHALL NOT BE INCLUDED IN THE FLOOR AREA OF THE ROOM. STORAGE MEZZANINE IS APPROXIMATELY 24% OF PHASE I FLOOR AREA
505.2.2 MEANS OF EGRESS.
THE MEANS OF EGRESS FOR MEZZANINES SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF CHAPTER 10.

REQUIRED SEPARATION OF OCCUPANCIES (HOURS) PER TABLE 508.4:

OCCUPANCY CLASSIFICATION	FIRE SEPARATION FROM	
S-2 APPARATUS BAY	B	1-HR SEPARATION REQUIRED

CHAPTER 6: TYPES OF CONSTRUCTION

CONSTRUCTION TYPE:	V-B
PRIMARY STRUCTURAL FRAME (HOURS):	0
BEARING WALLS-EXTERIOR (HOURS):	0
BEARING WALLS-INTERIOR (HOURS):	0
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS (HOURS):	0
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS (HOURS):	0
NONBEARING WALLS AND PARTITIONS-EXTERIOR (HOURS):	0
X < 5'	1
5' < X < 10'	1
10' < X < 30'	0
X > 30'	0

CHAPTER 7: FIRE AND SMOKE PROTECTION FEATURES
TABLE 705.8 – MAX. AREA OF EXTERIOR WALL OPENINGS BASED ON FIRE SEPARATION DIST. AND DEGREE OF OPENING PROTECTION: NO LIMIT AS NO BUILDING IS LESS THAN 20FT FROM PHASE I.

710.8 DUCTS AND AIR TRANSFER OPENINGS.
THE SPACE AROUND A DUCT PENETRATING A SMOKE PARTITION SHALL BE FILLED WITH AN APPROVED MATERIAL TO LIMIT THE FREE PASSAGE OF SMOKE. AIR TRANSFER OPENINGS IN SMOKE PARTITIONS SHALL BE PROVIDED WITH A SMOKE DAMPER COMPLYING WITH SECTION 717.3.2.2.

EXCEPTION: WHERE THE INSTALLATION OF A SMOKE DAMPER WILL INTERFERE WITH THE OPERATION OF A REQUIRED SMOKE CONTROL SYSTEM IN ACCORDANCE WITH SECTION 909, APPROVED ALTERNATIVE PROTECTION SHALL BE UTILIZED.

CHAPTER 8: INTERIOR FINISHES

803.1 GENERAL. INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE CLASSIFIED FOR FIRE PERFORMANCE AND SMOKE DEVELOPMENT IN ACCORDANCE WITH SECTION 803.1.1 OR 803.1.2, EXCEPT AS SHOWN IN SECTIONS 803.1.3 THROUGH 803.15. MATERIALS TESTED IN ACCORDANCE WITH SECTION 803.1.1 SHALL NOT BE REQUIRED TO BE TESTED IN ACCORDANCE WITH SECTION 803.1.2.

TABLE 803.13 INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY:

S-2	SPRINKLERED
INTERIOR EXIT STAIRS	C
CORRIDORS	C
ROOMS	C

CHAPTER 9: FIRE PROTECTION AND LIFE SAFETY SYSTEMS
902.1 PUMP AND RISER ROOM SIZE.
WHERE PROVIDED, FIRE PUMP ROOMS AND AUTOMATIC SPRINKLER SYSTEM RISER ROOMS SHALL BE DESIGNED WITH ADEQUATE SPACE FOR ALL EQUIPMENT NECESSARY FOR THE INSTALLATION, AS DEFINED BY THE MANUFACTURER, WITH SUFFICIENT WORKING ROOM AROUND THE STATIONARY EQUIPMENT. CLEARANCES AROUND EQUIPMENT TO ELEMENTS OF PERMANENT CONSTRUCTION, INCLUDING OTHER INSTALLED EQUIPMENT AND APPLIANCES, SHALL BE SUFFICIENT TO ALLOW INSPECTION, SERVICE, REPAIR OR REPLACEMENT WITHOUT REMOVING SUCH ELEMENTS OF PERMANENT CONSTRUCTION OR DISABLING THE FUNCTION OF A REQUIRED FIRE-RESISTANCE-RATED ASSEMBLY. FIRE PUMP AND AUTOMATIC SPRINKLER SYSTEM RISER ROOMS SHALL BE PROVIDED WITH DOORS AND UNOBSTRUCTED PASSAGEWAYS LARGE ENOUGH TO ALLOW REMOVAL OF THE LARGEST PIECE OF EQUIPMENT.
902.1.1 - ACCESS KEY WILL BE AVAILABLE AT ALL TIMES.
902.1.2 - ACCESS DOOR WILL HAVE APPROVED SIGNAGE
902.1.3 - ROOM SHALL BE MAINTAINED AT A TEMPERATURE NOT LESS THAN 40 DEGREES F.
902.1.4 - PERMANENT LIGHTS WILL BE INSTALLED.

PER IBC SECTION 906.1 AND TABLE 906.3 (1), PROVIDE PORTABLE FIRE EXTINGUISHERS IN CABINETS: 2-A, MAX. FLOOR AREA = 11,250. AT LEAST ONE WILL BE PROVIDED FOR S-2 OCCUPANCY.

913.2.1 PROTECTION OF FIRE PUMP ROOMS.
FIRE PUMPS SHALL BE LOCATED IN ROOMS THAT ARE SEPARATED FROM ALL OTHER AREAS OF THE BUILDING BY 2-HOUR FIRE BARRIERS CONSTRUCTED IN ACCORDANCE WITH SECTION 707 OR 2-HOUR HORIZONTAL ASSEMBLIES CONSTRUCTED IN ACCORDANCE WITH SECTION 711, OR BOTH.

EXCEPTIONS: 1. IN OTHER THAN HIGH-RISE BUILDINGS, SEPARATION BY 1-HOUR FIRE BARRIERS CONSTRUCTED IN ACCORDANCE WITH SECTION 707 OR 1-HOUR HORIZONTAL ASSEMBLIES CONSTRUCTED IN ACCORDANCE WITH SECTION 711, OR BOTH, SHALL BE PERMITTED IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2.

MEANS OF EGRESS – CHAPTER 10:

		ALLOWED	ACTUAL
MAXIMUM EXIT ACCESS TRAVEL DISTANCE (FEET):			
(IBC TABLE 1017.2) - WITH SPRINKLER	S-2 STORAGE	400'	
	B BUSINESS	300'	N/A
MAXIMUM COMMON PATH OF EGRESS TRAVEL (FEET):			
(IBC TABLE 1006.2.1) - OCC. LOAD = 34	S-2 STORAGE	100'	
	B BUSINESS	100'	N/A
MINIMUM CORRIDOR WIDTH (IBC 1020.2)		36"	46"
MAXIMUM DEAD END CORRIDORS (IBC 1020.4)		50'	

MINIMUM EXITS REQUIRED PER SPACE (IBC TABLE 1006.3.2)	OCCUPANT LOAD		REQUIRED EXITS
		1-500	2
MINIMUM STAIR WIDTH (IBC 1011.2, EXC. 1)		36"	63"

NOTES:
EGRESS REQUIREMENTS:
1. REFER TO LIFE SAFETY PLANS FOR ADDITIONAL INFORMATION.

ACCESSIBLE MEANS OF EGRESS - IBC
1006.2.1 TWO EXITS ARE PROVIDED
TABLE 1006.2.1: MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE, WITH SPRINKLER (FEET)
S-2 100 FT. OCCUPANCY = 18
B 100 FT. N/A
1007.1.1 - EXCEPTION 2 - WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2, THE SEPARATION DISTANCE SHALL BE NOT LESS THAN ONE-THIRD OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED.
1009.3.1 EXIT ACCESS STAIRWAYS.
EXIT ACCESS STAIRWAYS THAT CONNECT LEVELS IN THE SAME STORY ARE NOT PERMITTED AS PART OF AN ACCESSIBLE MEANS OF EGRESS. **EXCEPTION**: EXIT ACCESS STAIRWAYS PROVIDING MEANS OF EGRESS FROM MEZZANINES ARE PERMITTED AS PART OF AN ACCESSIBLE MEANS OF EGRESS.
1010.1.9.1 DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE BY CHAPTER 11 SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.
THE REQUIRED CAPACITY OF STAIRWAYS SHALL BE DETERMINED AS SPECIFIED IN SECTION 1005.1, BUT THE MINIMUM WIDTH SHALL BE NOT LESS THAN 44 INCHES (1118 MM). SEE SECTION 1009.3 FOR ACCESSIBLE MEANS OF EGRESS STAIRWAYS. EXC. 1 - STAIRWAYS SERVING AN OCCUPANT LOAD OF LESS THAN 50 SHALL HAVE A WIDTH OF NOT LESS THAN 36 INCHES.
GUARDS (NOT LESS THAN 42") SHALL BE LOCATED ALONG OPEN-SIDED WALKING SURFACES, INCLUDING MEZZANINES.
1011.2 MINIMUM STAIR WIDTH = 36", EXISTING = 63" CLEAR
1016.2 EGRESS THROUGH INTERVENING SPACES 1. EGRESS FROM A ROOM OR SPACE SHALL NOT PASS THROUGH ADJOINING OR INTERVENING ROOMS OR AREAS, EXCEPT WHERE SUCH ADJOINING ROOMS OR AREAS AND THE AREA SERVED ARE ACCESSORY TO ONE OR THE OTHER. 2. AN EXIT ACCESS SHALL NOT PASS THROUGH A ROOM THAT CAN BE LOCKED TO PREVENT EGRESS.

TABLE 1017.2: EXIT ACCESS TRAVEL DISTANCE

OCCUPANCY	ALLOWED (WITH SPRINKLER)	ACTUAL
S-2	400 FT.	102' - 6"
B	300 FT.	96' - 0"

1020.2: MINIMUM CORRIDOR WIDTH 36"
1020.4, EXCEPTION #2: MAXIMUM DEAD-END CORRIDORS – WITH SPRINKLERS: 50 FT.
EGRESS REQUIREMENTS:
1. REFER TO LIFE SAFETY PLANS FOR ADDITIONAL INFORMATION.

ACCESSIBILITY – CHAPTER 11:
1102.1 BUILDINGS AND FACILITIES SHALL BE DESIGNED AND CONSTRUCTED TO BE ACCESSIBLE IN ACCORDANCE WITH THIS CODE AND ICC A117.1.
1104.1 AT LEAST ONE ACCESSIBLE ROUTE WITHIN THE SITE SHALL BE PROVIDED FROM PUBLIC TRANSPORTATION STOPS, ACCESSIBLE PARKING, ACCESSIBLE PASSENGER LOADING ZONES, AND PUBLIC STREETS OR SIDEWALKS TO THE ACCESSIBLE BUILDING ENTRANCE SERVED.
1109.2 TOILET AND BATHING FACILITIES EXC. 3 - WHERE MULTIPLE SINGLE-USER TOILET ROOMS OR BATHING ROOMS ARE CLUSTERED AT A SINGLE LOCATION, AT LEAST 50 PERCENT BUT NOT LESS THAN ONE ROOM FOR EACH USE AT EACH CLUSTER SHALL BE ACCESSIBLE.

INTERIOR ENVIRONMENT – CHAPTER 12:
- OCCUPIABLE SPACES, HABITABLE SPACES AND CORRIDORS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7 FT. 6 IN. BATHROOMS, TOILET ROOMS, KITCHENS, STORAGE ROOMS AND LAUNDRY ROOMS SHALL BE PERMITTED TO HAVE A CEILING HEIGHT OF NOT LESS THAN 7 FT. (1208.2).
- IN OTHER THAN DWELLING UNITS, TOILET, BATHING, AND SHOWER ROOM FLOOR FINISH MATERIALS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE. THE INTERSECTIONS OF SUCH FLOORS WITH WALLS SHALL HAVE A SMOOTH, HARD, NONABSORBENT VERTICAL BASE THAT EXTENDS UPWARD ONTO THE WALLS NOT LESS THAN 4 IN. (1210.2.1).
- WALLS AND PARTITIONS WITHIN 2 FT. OF SERVICE SINKS, URINALS AND WATER CLOSETS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE, TO A HEIGHT OF NOT LESS THAN 4 FT. ABOVE THE FLOOR, AND EXCEPT FOR STRUCTURAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE OF A TYPE THAT IS NOT ADVERSELY AFFECTED BY MOISTURE (1210.2.2).
  EXCEPTION: THIS SECTION DOES NOT APPLY TO TOILET ROOMS THAT ARE NOT ACCESSIBLE TO THE PUBLIC AND WHICH HAVE NOT MORE THAN ONE WATER CLOSET.
- ACCESSORIES SUCH AS GRAB BARS, TOWEL BARS, PAPER DISPENSERS AND SOAP DISHES, PROVIDED ON OR WITHIN WALLS, SHALL BE INSTALLED AND SEALED TO PROTECT STRUCTURAL ELEMENTS FROM MOISTURE.

ROOFING:
1504.7 IMPACT RESISTANCE:
ROOF COVERINGS INSTALLED ON LOW-SLOPE ROOFS (ROOF SLOPE < 2:12) IN ACCORDANCE WITH SECTION 1507 SHALL RESIST IMPACT DAMAGE BASED ON THE RESULTS OF TESTS CONDUCTED IN ACCORDANCE WITH ASTM D3746, ASTM D4272 OR THE "RESISTANCE TO FOOT TRAFFIC TEST" IN SECTION 4.6 OF FM 4470.

IFC TABLE B105.2 - MINIMUM REQUIRED FIRE-FLOW AND FLOW DURATION FOR BUILDINGS
B103.1 DECREASES - THE FIRE CODE OFFICIAL IS AUTHORIZED TO REDUCE THE FIRE-FLOW REQUIREMENTS FOR ISOLATED BUILDINGS OR A GROUP OF BUILDINGS IN RURAL AREAS OR SMALL COMMUNITIES WHERE THE DEVELOPMENT OF FULL FIRE-FLOW REQUIREMENTS IS IMPRACTICAL.

IFC TABLE C102.1 - NUMBER AND DISTRIBUTION OF FIRE HYDRANTS

PLUMBING FIXTURE COUNT SUMMARY

CHAPTER 29 PLUMBING SYSTEMS - TABLE 2902.1 - MIN. NUMBER OF REQUIRED PLUMBING FIXTURES

OCCUPANT LOAD (PLANNED FOR PHASE II COMPLETE BUILD-OUT, PER IBC CHAPTER 10)

S-2 OCCUPANT COUNT 5,469 GROSS SQ. FT. : 18 OCCUPANTS
LOAD FACTOR ACCESSORY STORAGE - 300 SQ. FT., GROSS
9 MALE
9 FEMALE

PLUMBING FIXTURE COUNT - S OCCUPANCY

WATER CLOSETS:
1 PER 100 OCCUPANTS, 2 PROVIDED
LAVATORIES:
1 PER 100 OCCUPANTS, 2 PROVIDED

COMcheck Software Version COMcheckWeb
Envelope Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	Twin Falls - training facility 2022
Location:	Twin Falls, Idaho
Climate Zone:	5b
Project Type:	New Construction
Vertical Glazing / Wall Area:	2%

Construction Site:
420 Victory Ave
Twin Falls, Idaho 83301

Owner/Agent:
City of Twin Falls
203 Main Ave. E
Twin Falls, Idaho 83301
208-735-7231
LKenworthy@tfid.org

Designer/Contractor:
Tad Bradley
Pivot North Architecture
116 South 6th Street
Boise, Idaho 83702
208-590-4255
tad@pivotnorthdesign.com

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Enhanced Envelope Performance, 1.0 credit

Building Area	Floor Area
1-Apparatus Bay for Fire Training facility (Warehouse) : Nonresidential	10414

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Roof: Metal Building, Standing Seam, Double Insulation Layer with Thermal Blocks (d), [Bldg. Use 1 - Apparatus Bay for Fire Training facility]	10414	0.0	36.0	0.027	0.035
Floor: Unheated Slab-On-Grade, Vertical 2 ft., [Bldg. Use 1 - Apparatus Bay for Fire Training facility] (c)	418	---	10.0	0.540	0.540
NORTH					
Ext. Wall: Metal Building Wall, Single Layer Mineral Fiber (compressed at girt), [Bldg. Use 1 - Apparatus Bay for Fire Training facility]	2237	0.0	26.0	0.037	0.052
Door: Insulated Metal, Garage door 14% glazing, [Bldg. Use 1 - Apparatus Bay for Fire Training facility]	196	---	---	0.150	0.310
Door: Insulated Metal, Garage door 14% glazing, [Bldg. Use 1 - Apparatus Bay for Fire Training facility]	196	---	---	0.150	0.310
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Apparatus Bay for Fire Training facility]	21	---	---	0.310	0.370
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Apparatus Bay for Fire Training facility]	21	---	---	0.310	0.370
EAST					
Ext. Wall: Metal Building Wall, Single Layer Mineral Fiber (compressed at girt), [Bldg. Use 1 - Apparatus Bay for Fire Training facility]	1626	0.0	26.0	0.037	0.052
Window: Vinyl Frame: Fixed, Perf. Specs.: Product ID A-series picture window (Anderson), SHGC 0.30, [Bldg. Use 1 - Apparatus Bay for Fire Training facility] (b)	128	---	---	0.190	0.380

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
SOUTH					
Ext. Wall: Metal Building Wall, Single Layer Mineral Fiber (compressed at girt), [Bldg. Use 1 - Apparatus Bay for Fire Training facility]	2237	0.0	26.0	0.037	0.052
Door: Insulated Metal, Garage door 14% glazing, [Bldg. Use 1 - Apparatus Bay for Fire Training facility]	196	---	---	0.150	0.310
Door: Insulated Metal, Garage door 14% glazing, [Bldg. Use 1 - Apparatus Bay for Fire Training facility]	196	---	---	0.150	0.310
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Apparatus Bay for Fire Training facility]	21	---	---	0.310	0.370
WEST					
Ext. Wall: Metal Building Wall, Single Layer Mineral Fiber (compressed at girt), [Bldg. Use 1 - Apparatus Bay for Fire Training facility]	1626	0.0	26.0	0.037	0.052

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.
(d) Thermal spacer block with minimum R-3.5 must be installed above the purlin/batt, and the roof deck secured to the purlins.

Project Notes

Envelope PASSES: Design 14% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

TAD BRADLEY		01/20/2023
Name - Title	Signature	Date

Pre-engineered metal building to house a two-phase tenant improvement project. The first phase will be used as apparatus bays and supporting office, restroom, and utility space

Project Title: Twin Falls - training facility 2022 Report date: 11/02/22
Data filename: Page 2 of 9

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE FOR ALL INSPECTIONS

pivot north ARCHITECTURE
PIVOT NORTH ARCHITECTURE, PLLC.
116 S. 6TH STREET
BOISE, ID 83702
www.pivotnorthdesign.com

STAMP
LICENSED PROFESSIONAL ARCHITECT AR-984 STATE OF IDAHO CLINT SIEVERS

RICEfergusMILLER

Project: TWIN FALLS TRAINING FACILITY
430 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

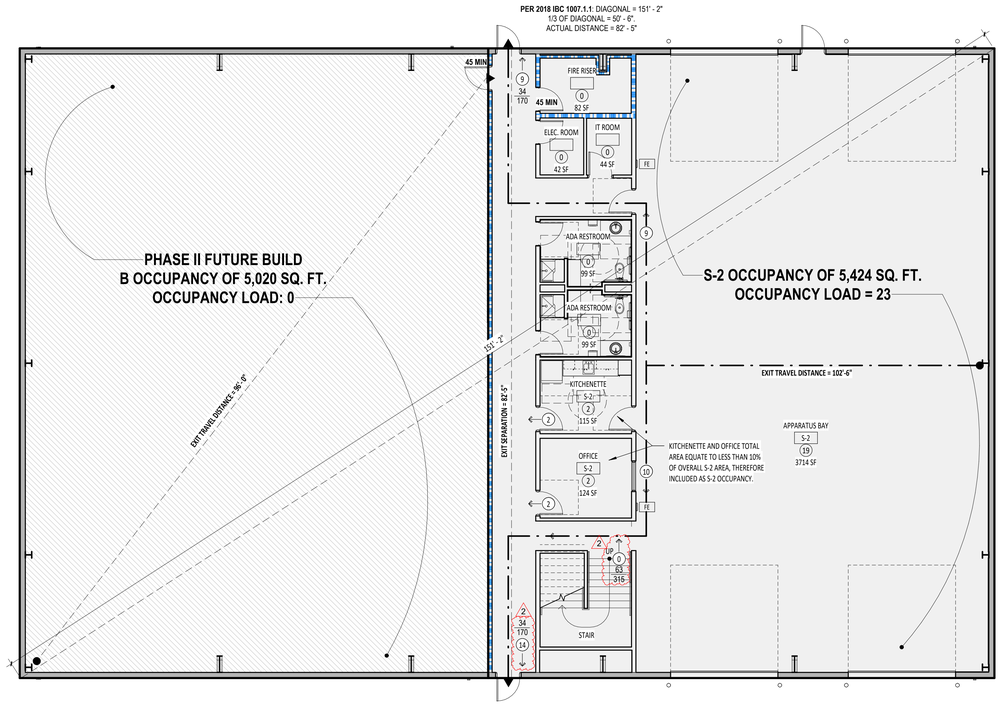
PERMIT SET - 02.29.2024

Project No: 19-029
Date: 02/29/2024
Checked By: TB/RC
Drawn By: TB

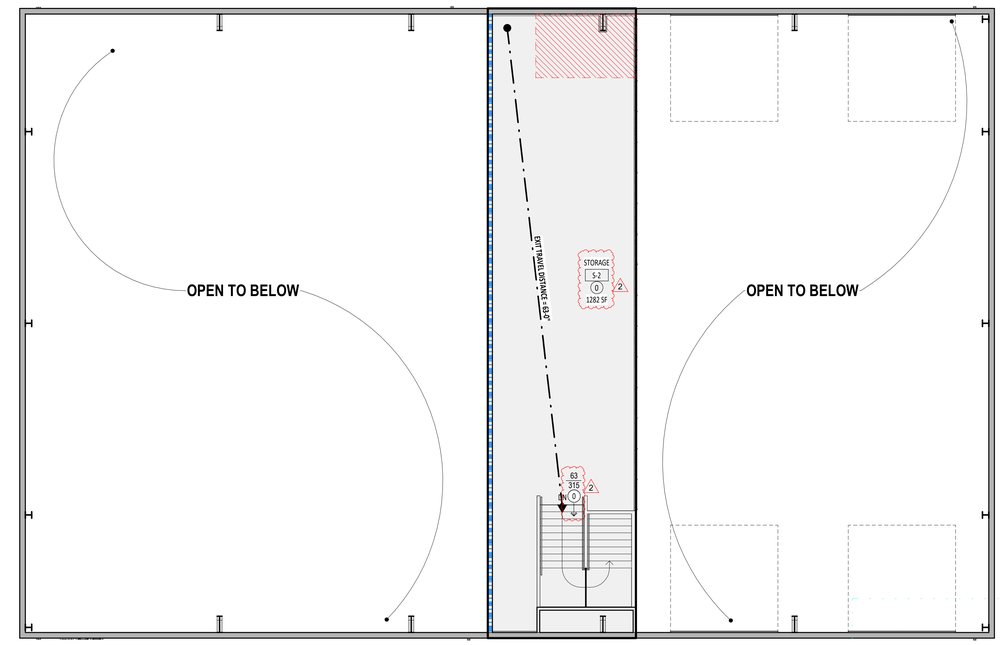
Sheet Name:
CODE AND ENERGY COMPLIANCE

Sheet No:
G1.00

2/29/2024 2:18:05 PM



C3 / G2.01 LEVEL 1-EXITING AND OCCUPANCY PLAN
1/8" = 1'-0"



E3 / G2.01 LEVEL 2 - EXITING AND OCCUPANCY
1/8" = 1'-0"

LEGEND

- ROOM NAME / X-1 / ## — OCCUPANCY CLASSIFICATION (PER IBC CHAPTER 3)
- ROOM OCCUPANT LOAD (PER IBC TABLE 1004.1.2)
- WIDTH OF EGRESS COMPONENT
- DIRECTION OF EXITING
- COLLECTIVE NUMBER OF OCCUPANTS
- OCCUPANT CAPACITY OF EGRESS COMPONENT
- DIRECTION OF EXITING
- COLLECTIVE NUMBER OF OCCUPANTS
- EXITING TRAVEL DISTANCE
- FIRE BARRIER - 1-HOUR FIRE-RESISTIVE RATING PER IBC SECTION 706 WITH 45-MINUTE RATED OPENING PROTECTIVES PER IBC TABLE 716.5
- FE — FIRE EXTINGUISHER
- S-2: LOW-HAZARD STORAGE
- B: BUSINESS GROUP
- 1 HOUR FIRE RATED FLOOR ASSEMBLY (FL-04)

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LICENSED PROFESSIONAL ARCHITECT AR-98494 STATE OF IDAHO CLINT SIEVERS

RICEfergusMILLER

Project: TWIN FALLS TRAINING FACILITY
430 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

2	CITY REVISIONS	02/26/2024

Project No:	19-029
Date:	02/29/2024
Checked By:	TB/RC
Drawn By:	TB

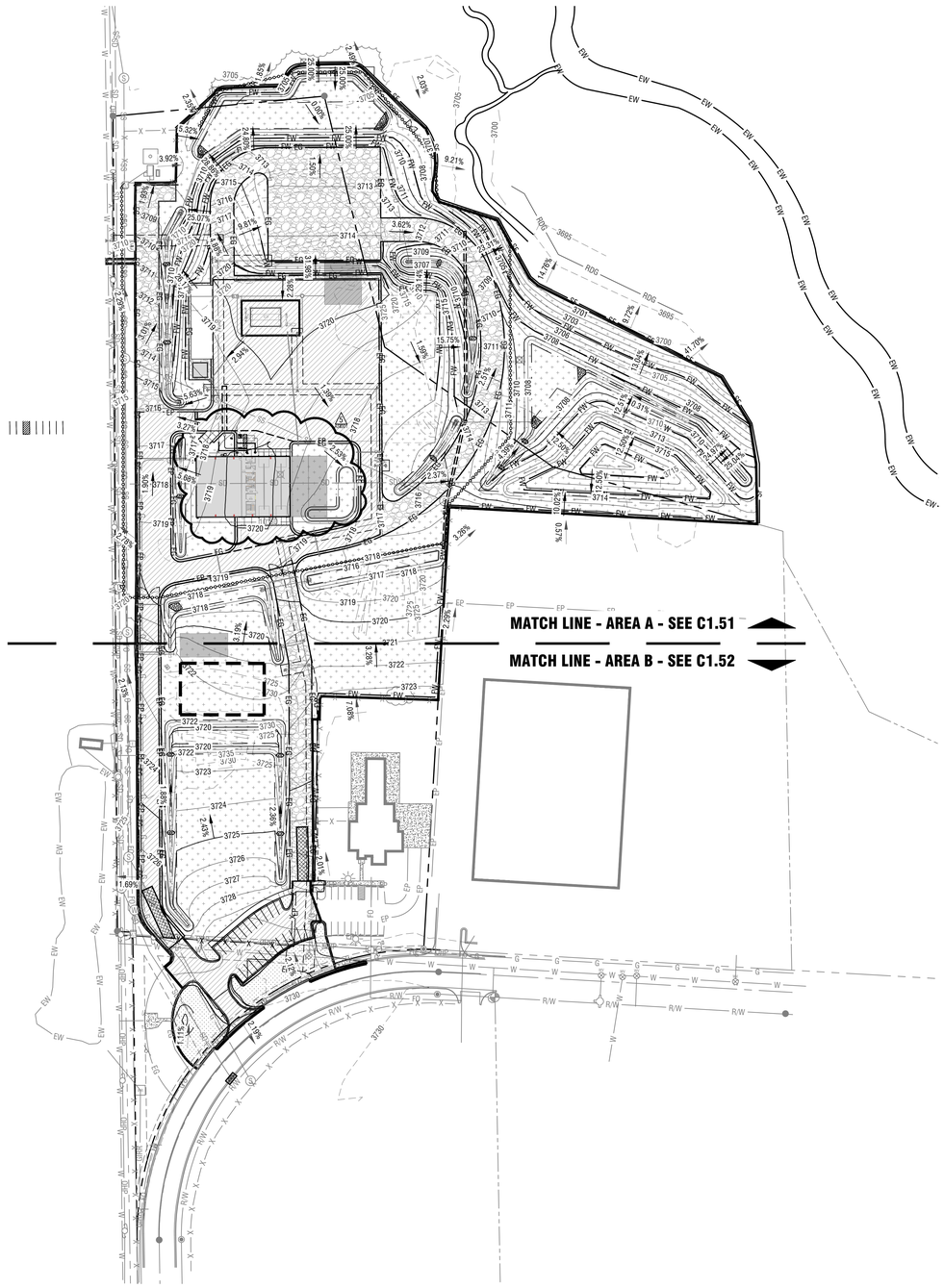
Sheet Name:
EXITING AND OCCUPANCY PLAN

PERMIT SET - 02.29.2024

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE FOR ALL INSPECTIONS

Sheet No: G2.01

2/29/2024 2:18:01 PM



Overall SWPPP Site Plan - Site Plan Only Permit

Horizontal Scale: 1" = 80'

0 80' 160'

SWPPP General Notes:

1. ALL BMP NUMBERS ARE REFERENCED FROM IDAHO DEQ BEST MANAGEMENT PRACTICES.
2. ALL STORM WATER WILL BE CONTAINED ON SITE.
3. ALL BMPS SHALL BE INSPECTED AT A MINIMUM OF ONCE EVERY 7 DAYS -OR- ONCE EVERY 14 DAYS AND WITHIN 24 HOURS OF A STORM EVENT PRODUCING 0.25 INCHES OR GREATER.
   INSPECTION FREQUENCY MAY BE REDUCED TO ONCE EVERY MONTH IF:
   A. THE ENTIRE SITE IS TEMPORARILY STABILIZED, OR
   B. RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS, OR
   C. CONSTRUCTION IS OCCURRING DURING SEASONAL ARID PERIODS (MAY THROUGH SEPTEMBER) IN ARID AREAS AND SEMI-ARID AREAS.
3. DEWATERING IS NOT EXPECTED FOR THIS SITE. ONSITE SWPPP CONTRACTOR IS RESPONSIBLE FOR ALL NON-STORMWATER MANAGEMENT.
4. STREET SWEEPING WILL BE IMPLEMENTED ON AN AS-NEEDED BASIS AS DETERMINED BY THE SWPPP RESPONSIBLE PERSON.
5. PROVIDE WASTE CONTAINERS FOR BUILDING MATERIALS IN WASTE STORAGE CONTAINMENT AREA. WASTE DISPOSAL DUMPSTERS MUST HAVE LIDS, OR PROVIDE COVER OR A SIMILARLY EFFECTIVE MEANS TO MINIMIZE THE DISCHARGE OF POLLUTANTS. KEEP WASTE CONTAINER LIDS CLOSED WHEN NOT IN USE AND AT THE END OF THE BUSINESS DAY. DISPOSE AT A FREQUENCY ACCORDING TO CONTAINER SIZE.
6. LOCATE ALL PORTABLE RESTROOMS AS FAR FROM PUBLIC AND PRIVATE STORM DRAIN SYSTEMS AS POSSIBLE. ANCHOR TO PREVENT VANDALISM.
11. SLURRY AND CUTTINGS FROM SAWCUTTING OF CONCRETE OR ASPHALT SHALL BE VACUUMED DURING CUTTING AND SURFACING OPERATIONS. SLURRY AND CUTTINGS SHALL NOT REMAIN ON PERMANENT CONCRETE OR ASPHALT PAVEMENT OVERNIGHT. SLURRY AND CUTTINGS SHALL NOT DRAIN TO ANY NATURAL OR CONSTRUCTED DRAINAGE CONVEYANCE. COLLECTED SLURRY AND CUTTINGS SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT VIOLATE GROUNDWATER OR SURFACE WATER QUALITY STANDARDS.
12. ALL EXCESS MATERIALS SHALL BE HAULED OFF SITE AND DISPOSED OF AT AN APPROVED LOCATION. EXCESS MATERIAL MAY BE TEMPORARILY STORED ON SITE (IF APPROVED BY THE OWNER) AT A PRE-APPROVED LOCATION. IF MATERIAL IS STOCKPILED FOR MORE THAN 14 DAYS STOCKPILE IS TO BE STABILIZED PER BMP #14,
13. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE ISPWC.
14. SEE LANDSCAPE AND MATERIALS PLANS FOR INFORMATION CONCERNING FINAL SOIL STABILIZATION MEASURES.
15. ALL GRADING, UTILITY, AND ROADWAY CONSTRUCTION SHALL BE LIMITED TO THE HOURS BETWEEN 7:00 A.M. AND 9:00 P.M. MONDAY THROUGH FRIDAY AND 8:00 A.M. TO 9:00 P.M. SATURDAY AND SUNDAY, UNLESS OTHERWISE APPROVED BY THE CONSTRUCTION MANAGER.
16. ANY MODIFICATIONS TO THIS PLAN REQUIRE APPROVAL OF THE DESIGNER OR THE ONSITE RESPONSIBLE PERSON.
17. TOTAL DISTURBED AREA FOR THIS ON-SITE WORK IS APPROXIMATELY: 12.75 ACRES.
18. UPON CONTRACT APPROVAL BY THE CONTRACTOR, IT IS RECOGNIZED THAT THE CONTRACTOR HAS REVIEWED THE PLAN DRAWINGS AND THE CONTRACTOR AGREES TO ABIDE BY THE REQUIREMENTS AND CONDITIONS CONTAINED HEREIN.

Soil Stabilization

1. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS.
2. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
3. EXCEPT AS PROVIDED BELOW, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAT 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
   3.1. WHERE STABILIZATION BY THE 14th DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICAL.
   3.2. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

NOTE: ONE OF THE FOLLOWING TEMPORARY SOIL STABILIZATION PRACTICES SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS AND/OR WHERE SHOWN ON PLAN, UNLESS CONDITIONS AS LISTED ABOVE DICTATE OTHERWISE:
1. MULCHING (BMP 52) - APPLY GRAVEL, STRAW, GRASS, COMPOST, WOOD CHIPS OR WOOD FIBERS TO DISTURBED AREAS TO PREVENT EROSION. SEE APPENDIX F OF THE ESC/SWPPP NARRATIVE FOR A COMPLETE DESCRIPTION, **AND/OR**:
2. GEOTEXTILE (BMP 53) - APPLY NONBIODEGRADABLE SYNTHETIC FABRIC TO DISTURBED AREAS TO PREVENT EROSION. SEE APPENDIX F OF THE ESC/SWPPP NARRATIVE FOR A COMPLETE DESCRIPTION, **AND/OR**:
3. MATTING (BMP 54) - APPLY BIODEGRADABLE WOVEN OR JUTE FIBER MAT TO DISTURBED AREAS TO PREVENT EROSION. SEE APPENDIX F OF THE ESC/SWPPP NARRATIVE FOR A COMPLETE DESCRIPTION.

PERMANENT SOIL STABILIZATION BMPS:
LANDSCAPING (BMP 32) - COORDINATE WITH THE APPROVED LANDSCAPE PLAN FOR LOCATIONS AND TIMING.

SWPPP Posting Requirements:

1. THE CONTRACTOR AND OWNER/DEVELOPER ARE RESPONSIBLE FOR APPLYING FOR OBTAINING THE EPA NOTICE OF INTENT (NOI).
2. A COMPLETE COPY OF THE SWPPP (INCLUDING A COPY OF THE CONSTRUCTION GENERAL PERMIT AND COMPLETED INSPECTION FORMS), NOI, AND ACKNOWLEDGEMENT LETTER FROM EPA MUST BE RETAINED AT THE CONSTRUCTION SITE (OR OTHER LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS) AND MADE AVAILABLE FOR REVIEW BY EPA, A STATE, OR OTHER LOCAL APPROVING AGENCY .
3. A SIGN OR OTHER NOTICE MUST BE POSTED IN A CONSPICUOUS LOCATION NEAR THE CONSTRUCTION ENTRANCE. THE SIGN OR OTHER NOTICE MUST CONTAIN THE FOLLOWING INFORMATION:
   - AT A MINIMUM, THE NOTICE MUST INCLUDE THE NPDES PERMIT TRACKING NUMBER AND A CONTACT NAME AND PHONE NUMBER FOR OBTAINING ADDITIONAL PROJECT INFORMATION AS WELL AS THE ADDRESS OF THE SITE, THE PERMIT HOLDER'S NAME AND THE PHONE NUMBER OF THE STORMWATER POLLUTION HOTLINE (208.395.8888) MUST BE DISPLAYED THROUGHOUT CONSTRUCTION
   - THE UNIFORM RESOURCE LOCATOR (URL) FOR THE SWPPP (IF AVAILABLE), OR THE FOLLOWING STATEMENT: "IF YOU WOULD LIKE TO OBTAIN A COPY OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THIS SITE, CONTACT THE EPA REGIONAL OFFICE AT EPA REGION 10 STORMWATER PROGRAM MISHA VAKOC (VAKOC.MISHA@EPA.GOV) (206) 553-6650."
   - AND THE FOLLOWING STATEMENT "IF YOU OBSERVE INDICATORS OF STORMWATER POLLUTANTS IN THE DISCHARGE OR IN THE RECEIVING WATERBODY, CONTACT THE EPA THROUGH THE FOLLOWING WEBSITE: HTTPS://WWW.EPA.GOV/ENFORCEMENT/REPORT-ENVIRONMENTAL-VIOLATIONS."
   - THE NOTICE MUST BE LOCATED SO THAT IT IS VISIBLE FROM THE PUBLIC ROAD THAT IS NEAREST TO THE ACTIVE PART OF THE CONSTRUCTION SITE.
   - THE NOTICE MUST USE A FONT LARGE ENOUGH TO BE READILY VIEWED FROM A PUBLIC RIGHT-OF-WAY.
4. THE SWPPP MUST BE SIGNED AND CERTIFIED IN ACCORDANCE WITH APPENDIX I, SECTION I.11 OF THE CONSTRUCTION GENERAL PERMIT.
5. THE CONTRACTOR AND OWNER/DEVELOPER ARE RESPONSIBLE FOR OBTAINING THE EPA FORMS FOR N.O.T. (NOTICE OF TERMINATION).

Contact Information

OWNER:
CITY OF TWIN FALLS
203 MAIN AVE. EAST
TWIN FALLS, ID 83301
CONTACT: MANDI THOMPSON
PH: 208.735.7237

CONTRACTOR:
STARR CORPORATION
2995 E. 3600 N.
TWIN FALLS, ID 83301
CONTACT: MICHAEL ARRINGTON
PH: 208.733.5695
EMAIL: michael@starrcorporation.com

ONSITE SWPPP COORDINATOR:
TO BE DETERMINED

PLAN PREPARER:
THE LAND GROUP
462 E. SHORE DR., SUITE 100
EAGLE, ID 83616
ROGER COLLINS
PHONE: 208.939.4041
roger@thelandgroupinc.com

ENGINEER:
THE LAND GROUP, INC.
462 E. SHORE DR., SUITE 100
EAGLE, ID 83616
ERIC CRONIN, PE
PHONE: 208.939.4041

ESC/SWPPP Legend

- APPROXIMATE LIMIT OF DISTURBANCE
- 3716 — PROPOSED GROUND CONTOUR (ONE-FOOT INTERVAL)
- 3716 — EXISTING GROUND CONTOUR (ONE-FOOT INTERVAL)
- FW — FIBER ROLL PER STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #64. SEE DETAILS ON SHEET C1.55 OF MASS GRADING SET.
- SF — SF — SILT FENCE PER STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #65. SEE DETAIL ON SHEET C155 OF MASS GRADING SET.
- W — CONCRETE WASHOUT PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #49 AND DETAIL ON SHEET C155 OF MASS GRADING SET.
- R — PORTABLE RESTROOM PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #50.
- DROP — RECTANGULAR DROP INLET PROTECTION TYPE I PER BMP #13, SEE SHEET C1.55 OF MASS GRADING SET FOR DETAILS.
- MATERIALS STORAGE AND PARKING AREAS PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #37.
- PROVIDE STABILIZED ENTRANCE PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #40. THIS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL ASPHALT BASE MATERIAL IS INSTALLED. PROVIDE SWEEPING DAILY OR AS NEEDED TO REMOVE ANY TRACKING OF MUD AND/OR DIRT ONTO EXISTING ASPHALT. SEE SHEET C1.55 OF MASS GRADING SET FOR DETAILS.
- PORTION OF DISTURBED AREA TO BE ADDITIONALLY STABILIZED WITH MATTING PER DETAIL 7/ C1.55 OF MASS GRADING SET.
- AREAS THAT WILL BE UN WORKED FOR MORE THAN 14 DAYS SHALL RECEIVE STRAW MULCH OR OTHER EFFECTIVE APPLICATION TO PROTECT EXPOSED SOILS FROM WIND AND WATER EROSION. SEE DETAILS SHEET C1.55 OF MASS GRADING SET.
- ASPHALT STABILIZATION AREAS, COORDINATE WITH MATERIALS SHEETS.
- COMPACTED GRAVEL STABILIZATION AREAS, COORDINATE WITH MATERIALS SHEETS.
- LANDSCAPE STABILIZATION AREAS PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #32, COORDINATE WITH LANDSCAPE SHEETS.

pivot north ARCHITECTURE

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BOISE, ID 83702
www.pivotnorthdesign.com

STAMP:

RICEfergusMILLER

THE LAND GROUP

SITE PLAN ONLY PERMIT - CONSTRUCTION DOCUMENTS | BID SET

Project:
TWIN FALLS FIRE DEPARTMENT
JIM BIERI REGIONAL FIRE
TRAINING FACILITY
430 VICTORY AVE
TWIN FALLS, ID 83301

Revisions:

1 REV1	REVISION 1	12/21/2021
2 CITY	CITY COMMENTS	01/04/2022
3 PR-01	PR-01	05/02/2022
4 PR-02	PR-02	09/23/2022
5 ASI001	ASI-001 -- PROOF SET	01/10/2023

Project No:	120104
Date:	02.04.2022
Checked By:	EC/BS
Drawn By:	CR/JL

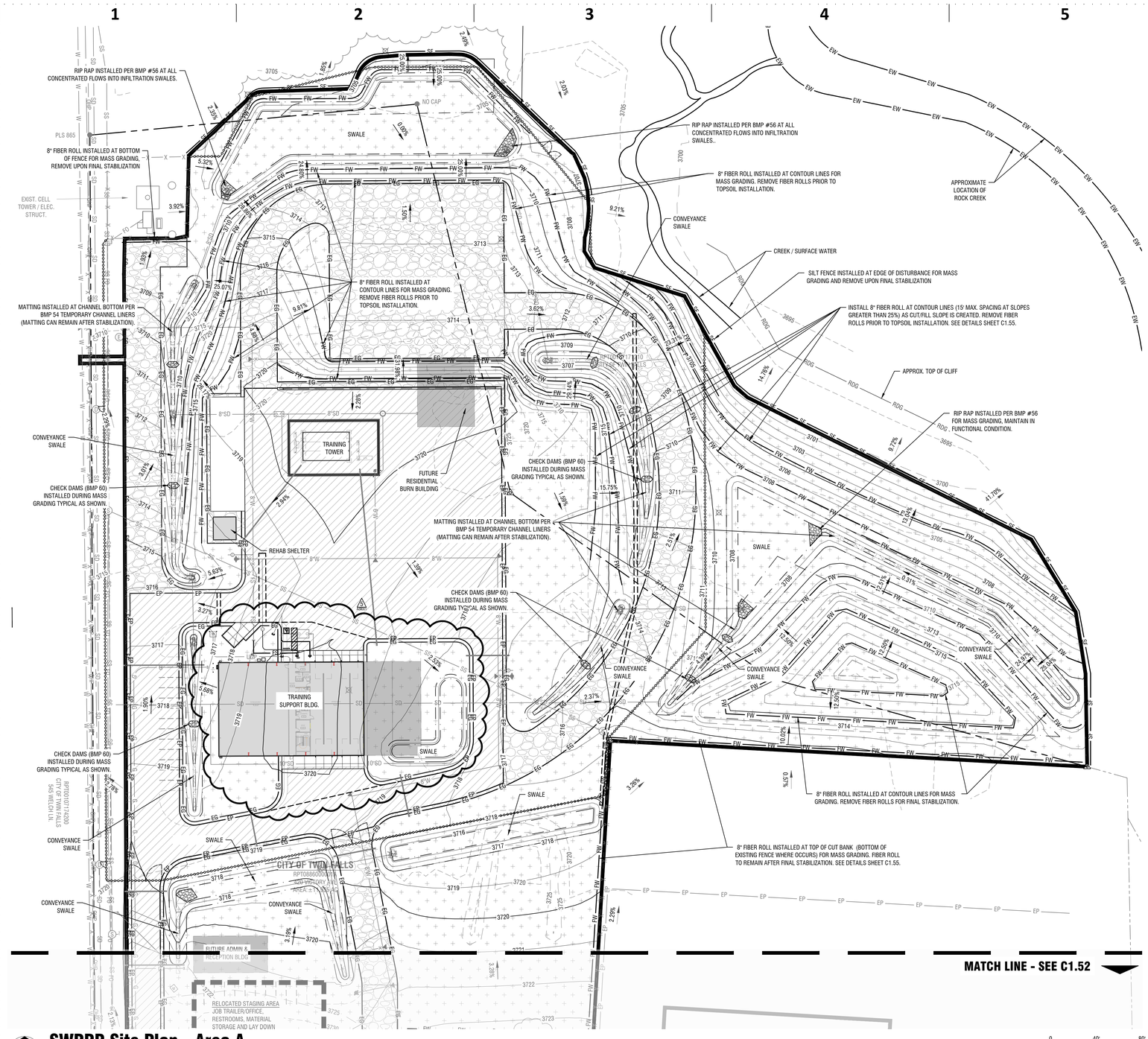
Sheet Name:

Overall SWPPP Site Plan

Sheet No:

C1.50

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE
FOR ALL INSPECTIONS



SWPPP Site Plan - Area A

Horizontal Scale: 1" = 40'

0 40' 80'

ESC/SWPPP Legend

- APPROXIMATE LIMIT OF DISTURBANCE
- 3716 PROPOSED GROUND CONTOUR (ONE-FOOT INTERVAL)
- 3716 EXISTING GROUND CONTOUR (ONE-FOOT INTERVAL)
- FW FIBER ROLL PER STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #64. SEE DETAILS ON SHEET C1.55 OF MASS GRADING SET.
- SF SF SILT FENCE PER STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #65. SEE DETAIL ON SHEET C155 OF MASS GRADING SET.
- W CONCRETE WASHOUT PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #49 AND DETAIL ON SHEET C155 OF MASS GRADING SET.
- R PORTABLE RESTROOM PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #50.
- W XXXX RECTANGULAR DROP INLET PROTECTION TYPE I PER BMP #13, SEE SHEET C1.55 OF MASS GRADING SET FOR DETAILS.
- MATERIALS STORAGE AND PARKING AREAS PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #37.
- PROVIDE STABILIZED ENTRANCE PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #40. THIS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL ASPHALT BASE MATERIAL IS INSTALLED. PROVIDE SWEEPING DAILY OR AS NEEDED TO REMOVE ANY TRACKING OF MUD AND/OR DIRT ONTO EXISTING ASPHALT. SEE SHEET C1.55 OF MASS GRADING SET FOR DETAILS.
- PORTION OF DISTURBED AREA TO BE ADDITIONALLY STABILIZED WITH MATTING PER DETAIL 7/ C1.55 OF MASS GRADING SET.
- AREAS THAT WILL BE UN WORKED FOR MORE THAN 14 DAYS SHALL RECEIVE STRAW MULCH OR OTHER EFFECTIVE APPLICATION TO PROTECT EXPOSED SOILS FROM WIND AND WATER EROSION. SEE DETAILS SHEET C1.55 OF MASS GRADING SET.
- ASPHALT STABILIZATION AREAS, COORDINATE WITH MATERIALS SHEETS.
- COMPACTED GRAVEL STABILIZATION AREAS, COORDINATE WITH MATERIALS SHEETS.
- LANDSCAPE STABILIZATION AREAS PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #32, COORDINATE WITH LANDSCAPE SHEETS.

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STAMP:

RICEfergusMILLER

THE LAND GROUP

SITE PLAN ONLY PERMIT - CONSTRUCTION DOCUMENTS | BID SET

Project:
TWIN FALLS FIRE DEPARTMENT
JIM BIERI REGIONAL FIRE TRAINING FACILITY
430 VICTORY AVE
TWIN FALLS, ID 83301

Revisions:

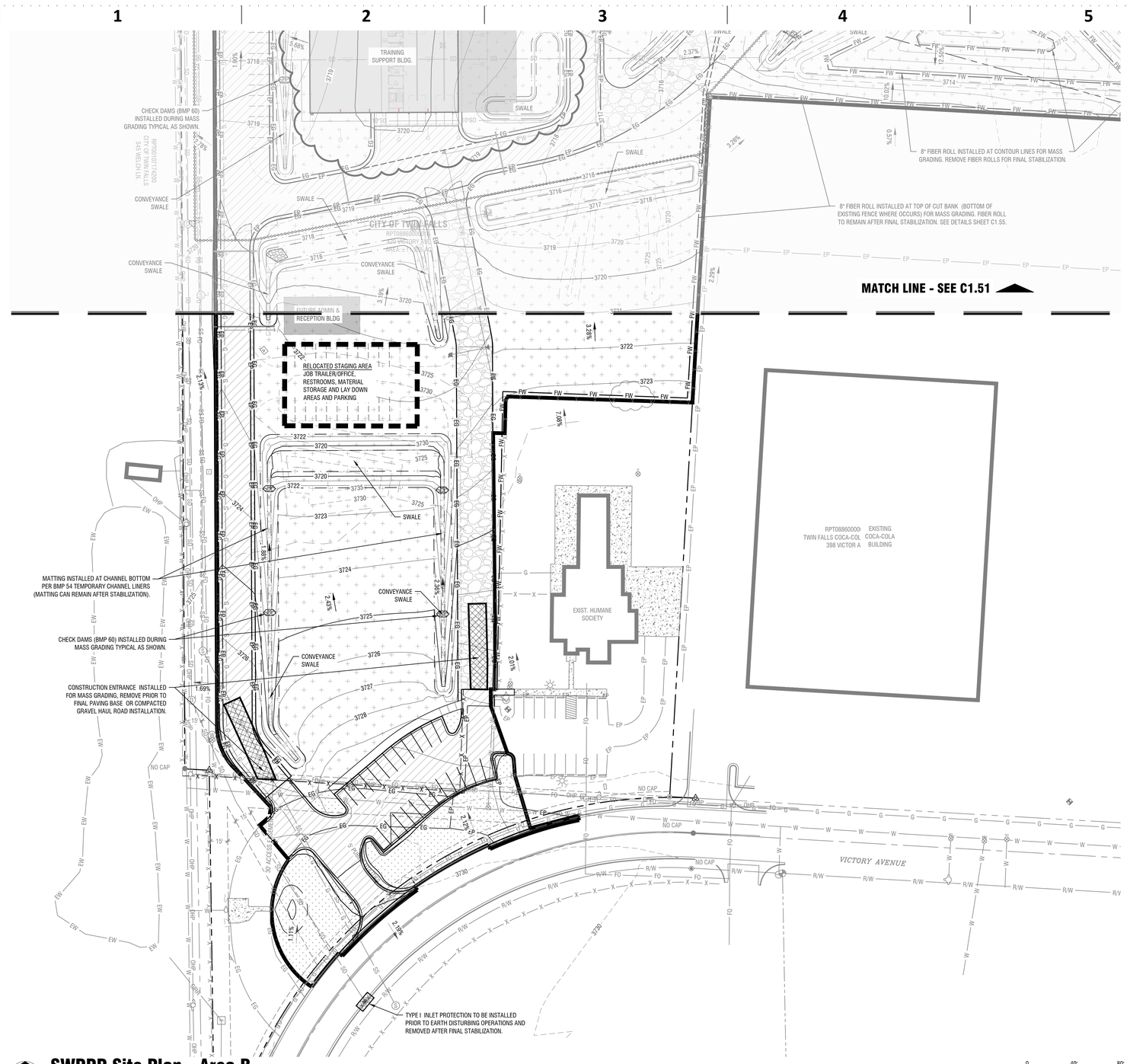
1 REVS	REVISION 1	12/21/2021
2 CITY	CITY COMMENTS	01/04/2022
3 PR-01	PR-01	05/02/2022
4 PR-02	PR-02	09/23/2022
5 ASI001	ASI-001 – PROOF SET	01/10/2023

Project No:	120104
Date:	02.04.2022
Checked By:	EC/BS
Drawn By:	CRJL

Sheet Name:
SWPPP Site Plan - Area A

Sheet No:
C1.51

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE FOR ALL INSPECTIONS



SWPPP Site Plan - Area B

Horizontal Scale: 1" = 40'

0 40' 80'

ESC/SWPPP Legend

- APPROXIMATE LIMIT OF DISTURBANCE
- 3716 PROPOSED GROUND CONTOUR (ONE-FOOT INTERVAL)
- 3716 EXISTING GROUND CONTOUR (ONE-FOOT INTERVAL)
- FW FIBER ROLL PER STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #64. SEE DETAILS ON SHEET C1.55 OF MASS GRADING SET.
- SF SF SILT FENCE PER STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #65. SEE DETAIL ON SHEET C155 OF MASS GRADING SET.
- W CONCRETE WASHOUT PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #49 AND DETAIL ON SHEET C155 OF MASS GRADING SET.
- R PORTABLE RESTROOM PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #50.
- W XXX RECTANGULAR DROP INLET PROTECTION TYPE I PER BMP #13, SEE SHEET C1.55 OF MASS GRADING SET FOR DETAILS.
- MATERIALS STORAGE AND PARKING AREAS PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #37.
- PROVIDE STABILIZED ENTRANCE PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #40. THIS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL ASPHALT BASE MATERIAL IS INSTALLED. PROVIDE SWEEPING DAILY OR AS NEEDED TO REMOVE ANY TRACKING OF MUD AND/OR DIRT ONTO EXISTING ASPHALT. SEE SHEET C1.55 OF MASS GRADING SET FOR DETAILS.
- PORTION OF DISTURBED AREA TO BE ADDITIONALLY STABILIZED WITH MATTING PER DETAIL 7/ C1.55 OF MASS GRADING SET.
- AREAS THAT WILL BE UN WORKED FOR MORE THAN 14 DAYS SHALL RECEIVE STRAW MULCH OR OTHER EFFECTIVE APPLICATION TO PROTECT EXPOSED SOILS FROM WIND AND WATER EROSION. SEE DETAILS SHEET C1.55 OF MASS GRADING SET.
- ASPHALT STABILIZATION AREAS, COORDINATE WITH MATERIALS SHEETS.
- COMPACTED GRAVEL STABILIZATION AREAS, COORDINATE WITH MATERIALS SHEETS.
- LANDSCAPE STABILIZATION AREAS PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #32, COORDINATE WITH LANDSCAPE SHEETS.

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SITE PLAN ONLY PERMIT - CONSTRUCTION DOCUMENTS | BID SET

Project:
TWIN FALLS FIRE DEPARTMENT
JIM BIERI REGIONAL FIRE TRAINING FACILITY
430 VICTORY AVE
TWIN FALLS, ID 83301

Revisions:

1 REVS	REVISION 1	12/21/2021
2 CITY	CITY COMMENTS	01/04/2022
3 PR-01	PR-01	05/02/2022
4 PR-02	PR-02	09/23/2022
5 ASI001	ASI-001 -- PROOF SET	01/10/2023

Project No:	120104
Date:	02.04.2022
Checked By:	EC/BS
Drawn By:	CR/JL

Sheet Name:
SWPPP Site Plan - Area B

Sheet No:
C1.52

CITY APPROVED PLANS
Reviewed for Code Compliance
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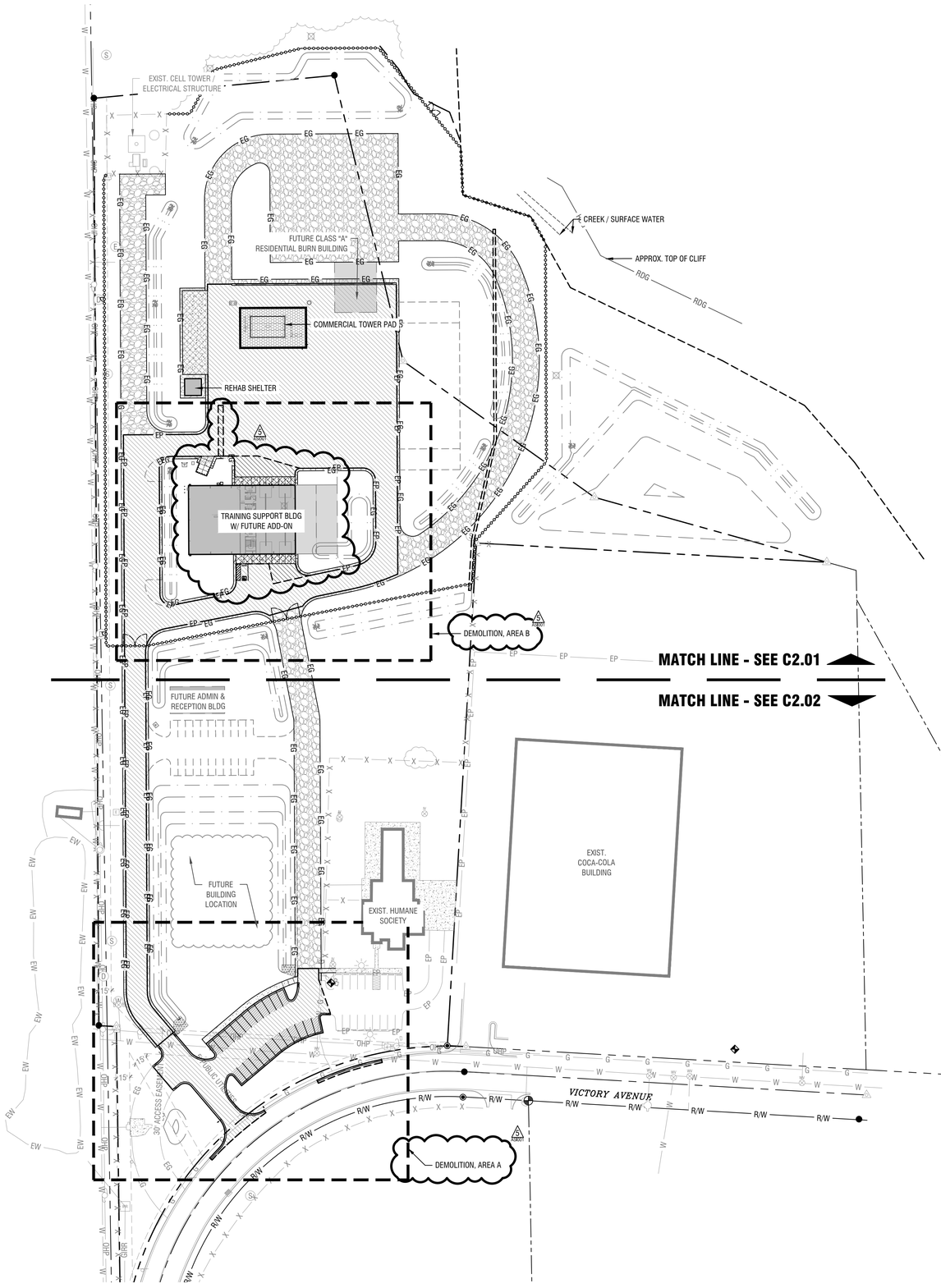
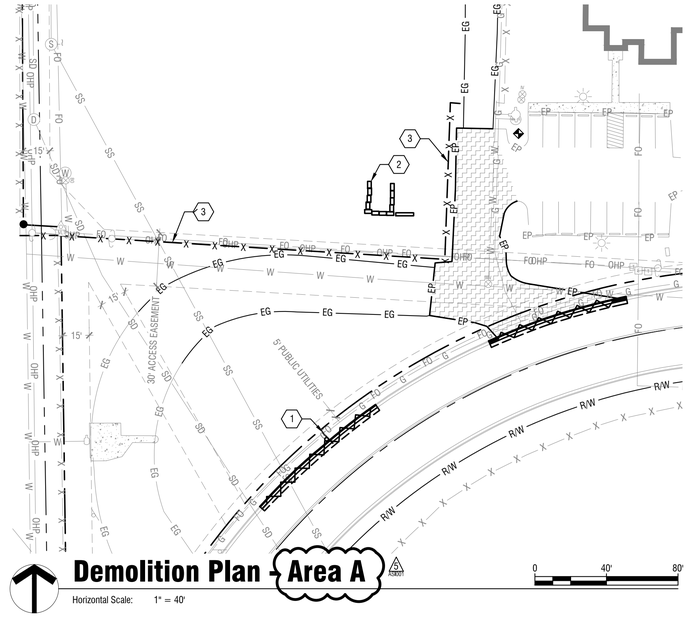


Site Layout & Materials Plan - Overall & Demolition

Horizontal Scale: 1" = 70'



Demolition Plan - Area A

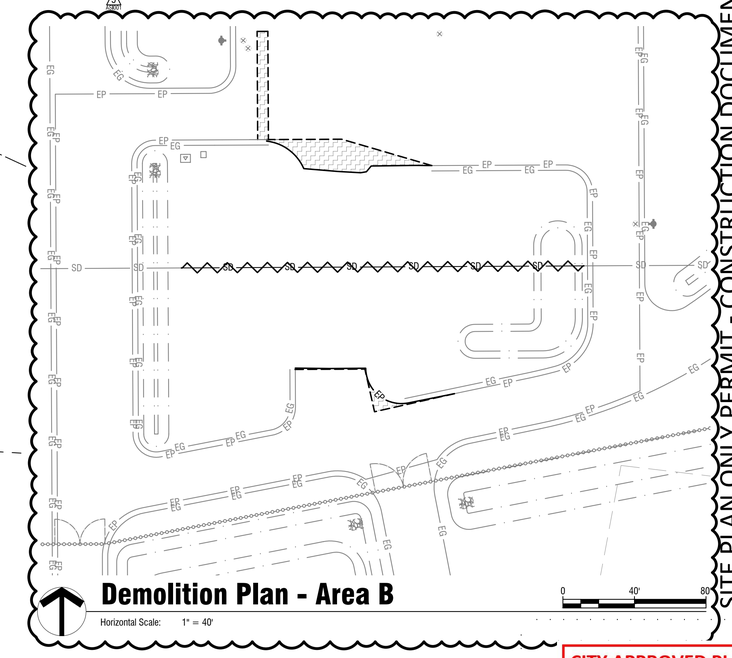
Horizontal Scale: 1" = 40'

Demolition Keynotes:

1. REMOVE AND SALVAGE SIGN, REFER TO C2.02 FOR INSTALLATION LOCATION.
2. CONCRETE BLOCK STOCKPILE, COORDINATE REMOVAL WITH OWNER FOR DESTINATION LOCATION.
3. REMOVE AND DISPOSE OF FENCING AND ALL RELATED APPURTENANCES OFFSITE.

Demolition Legend:

- REMOVE AND DISPOSE OF HARDSCAPE OFFSITE.
- SAWCUT LINE
- 10-IN CLAY UNDERDRAIN OR CURB & GUTTER TO BE REMOVED
- FENCE TO BE REMOVED



Demolition Plan - Area B

Horizontal Scale: 1" = 40'

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JIM BIERI REGIONAL FIRE TRAINING FACILITY
430 VICTORY AVE
TWIN FALLS, ID 83301

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5 ASI01	ASI-001	01/19/2023

Project No:	120104
Date:	02.04.2022
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Drawn By:	CR/JL

Sheet Name:

Site Layout & Materials Plan - Overall & Demolition

Sheet No:

C2.00

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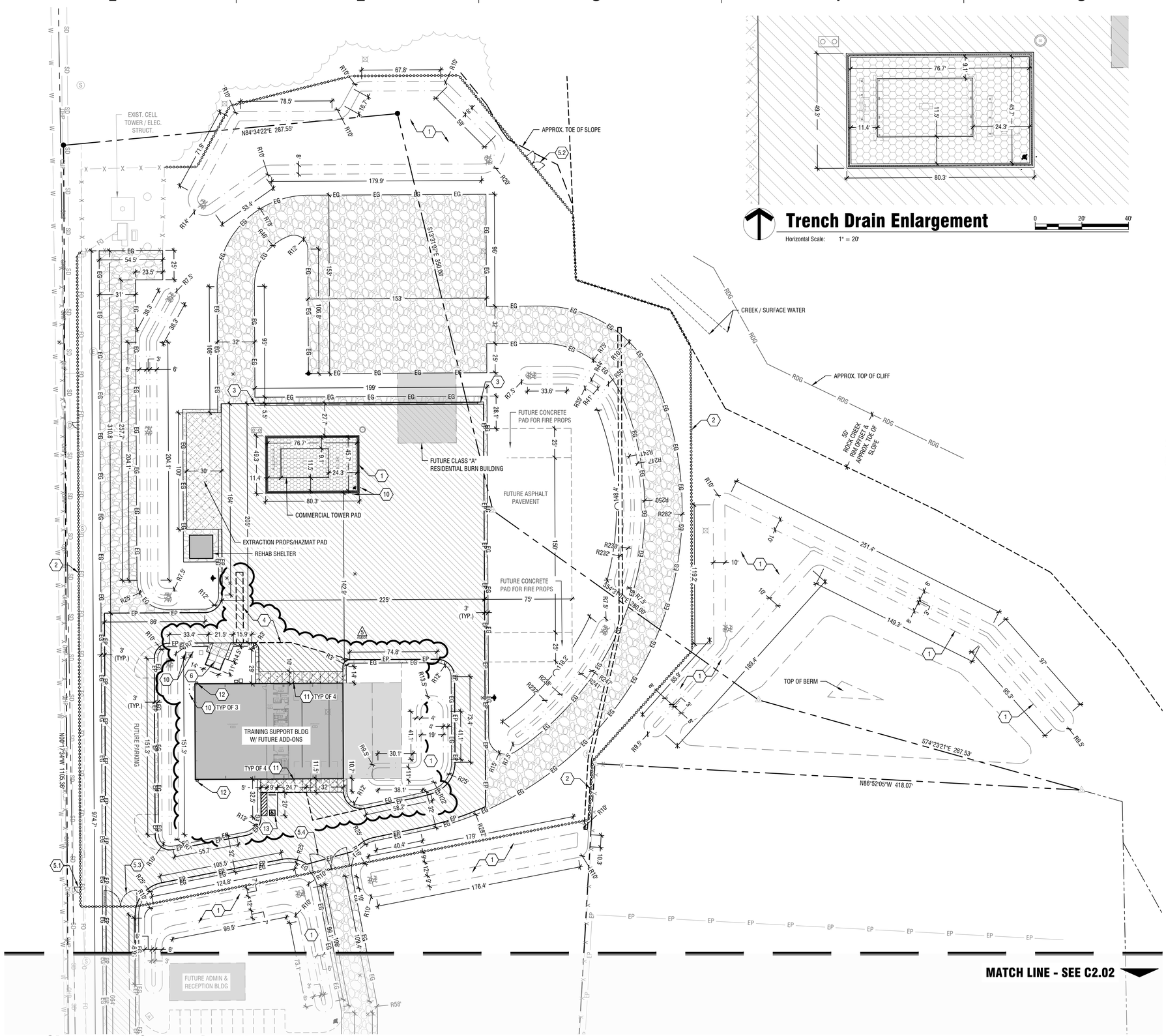

Site Layout & Materials Plan - Area A

Horizontal Scale: 1" = 40'

0 40' 80'

Trench Drain Enlargement

Horizontal Scale: 1" = 20'

0 20' 40'

Sheet Notes:

1. CONTRACTOR SHALL COMPLY WITH ALL CONSTRUCTION NOTES, ON PLAN SHEET C0.00.
2. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
3. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LAYOUT OF PROPOSED IMPROVEMENTS RELATIVE TO EXISTING BUILDINGS AND SITE, BRINGING ANY DISCREPANCIES TO THE ATTENTION OF THE ENGINEER PRIOR TO COMMENCING WORK.
4. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE MEASURED FROM FACE OF CURB, EDGE OF WALK, EDGE OF PAVEMENT, EDGE OF FOUNDATION, EDGE OF WALLS OR EDGE OF GRAVEL. WHERE EDGE OF GRAVEL IS DIMENSIONED ADJACENT TO EDGE OF PAVEMENT, EDGE OF PAVEMENT IS 3-FT FROM EDGE OF GRAVEL.
5. GRAVEL SECTION THICKNESS ACCOMMODATES FUTURE PAVING EFFORTS. TOP 3" WILL BE REMOVED TO ALLOW INSTALLATION OF 3" ASPHALT DEPTH.

Keynotes:

1. PROPOSED STORM WATER INFILTRATION FACILITY OR STRUCTURE, REFER TO SHEET C4.01 & C5.01 FOR MORE INFORMATION.
2. INSTALL 6-FT CHAIN LINK FENCE AND GATES WHERE APPLICABLE, EXTENTS AND GATE LOCATIONS SHALL BE CONFIRMED WITH OWNER PRIOR TO INSTALLATION.
3. INSTALL CURB TERMINUS PER ISPWC SD-707.
4. PROVIDE NEAT SAW CUT LINE OF ASPHALT AND/OR CONCRETE.
5. INSTALL MANUAL GATE, REFER TO SPECIFICATION SECTION 32 31 13.
   - 5.1. 5-FT MAN GATE
   - 5.2. (2) 8-FT DUAL MANUAL SWING GATE
   - 5.3. (2) 14-FT DUAL MANUAL SWING GATE
   - 5.4. (2) 16-FT DUAL MANUAL SWING GATE
6. SCREENED TRASH ENCLOSURE, REFER TO ARCHITECTURAL & STRUCTURAL FOR ADDITIONAL INFORMATION.
7. WHITE PAVEMENT MARKING PER SPECIFICATION SECTION 32 13 13.
8. INSTALL 30-IN x 30-IN STOP SIGN (R1-1) PER ISPWC SD-1130.
9. REINSTALL CHEVRON SYMBOL SIGN, SIMILAR TO ISPWC SD-1130.
10. INSTALL STEEL BOLLARD PER DETAIL 9/C2.50.
11. STEEL BOLLARD. REFER TO DETAIL E2/A1.91.
12. INSTALL 12" x 24" PRECAST CONCRETE SPLASH BLOCK. COORDINATE LOCATION WITH ARCHITECTURAL DOWNSPOUT.
13. ACCESSIBLE PARKING. REFER TO DETAIL 10/C2.50 FOR ADDITIONAL INFORMATION.

Material & Line Legend:

- HEAVY DUTY ASPHALT PAVEMENT PER DETAIL 1/C2.50. (BOLD HATCH IS PROPOSED WITH SUPPORT BUILDING)
- LIGHT DUTY ASPHALT PAVEMENT PER DETAIL 2/C2.50.
- GRAVEL ROAD PER DETAIL 3/C2.50. (BOLD HATCH IS PROPOSED WITH SUPPORT BUILDING)
- HEAVY DUTY CONCRETE PER DETAIL 4/C2.50.
- LIGHT DUTY CONCRETE PER CITY OF TWIN FALLS STANDARD DRAWING TFSD-709, REFER TO PLAN FOR DIMENSIONS.
- STRUCTURAL CONCRETE SECTION, REFER TO STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.
- INSTALL 8-IN DEPTH OF D_{50} = 0.33' ANGULAR RIPRAP ABOVE DRAINAGE GEOTEXTILE.
- CURB & CATCH PLATE GUTTER PER DETAIL 7/C2.50.
- CURB & REVERSE PLATE GUTTER PER DETAIL 6/C2.50.
- 6-FT CHAIN LINK FENCE PER SPECIFICATION SECTION 32 31 13.
- GATE, REFER TO KEYNOTES AND SPECIFICATION SECTION 32 31 13.

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CONSTRUCTION

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Site Layout & Materials Plan - Area A

Sheet No:

C2.01

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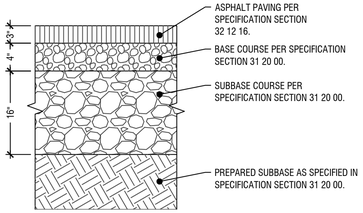
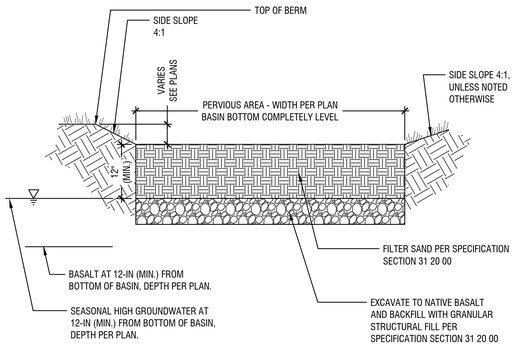
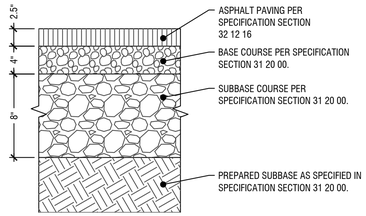


1 Heavy Duty Asphalt Section

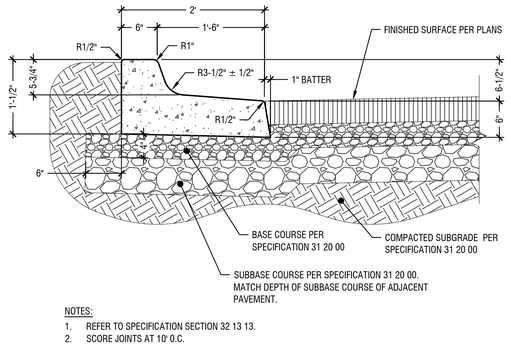
Scale: NTS



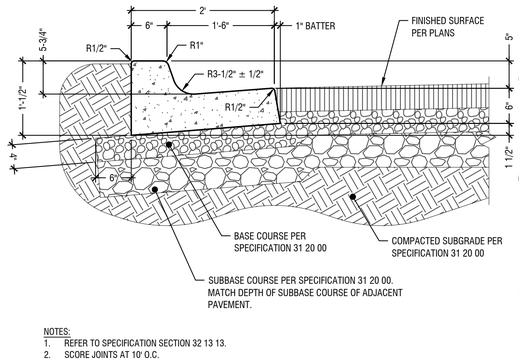


2 Light Duty Asphalt Section

Scale: NTS



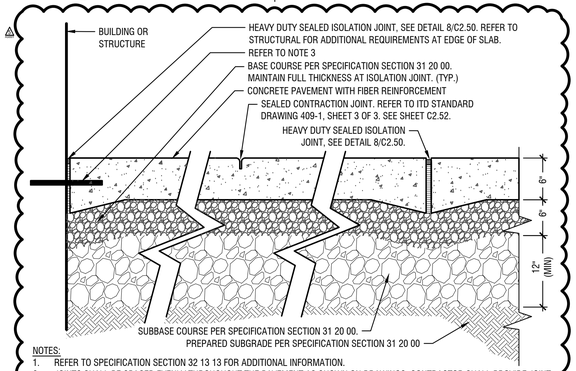
NOTES:
1. REFER TO SPECIFICATION SECTION 32 13 13.
2. SCORE JOINTS AT 10' O.C.



NOTES:
1. REFER TO SPECIFICATION SECTION 32 13 13.
2. SCORE JOINTS AT 10' O.C.

3 Gravel Road Section

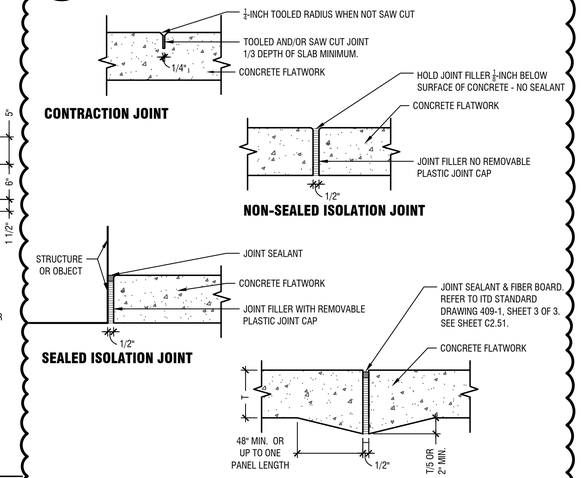
Scale: NTS



NOTES:
1. REFER TO SPECIFICATION SECTION 32 13 13 FOR ADDITIONAL INFORMATION.
2. JOINTS SHALL BE SPACED EVENLY THROUGHOUT THE PAVEMENT AS SHOWN ON DRAWINGS. CONTRACTOR SHALL PROVIDE JOINT LAYOUT AND POUR SEQUENCE LAYOUT PLAN FOR REVIEW AND APPROVAL.
3. 18" LONG ¾" DIA. EPOXY-COATED PLAIN BAR DOWEL, EMBEDDED 9" INTO STEM WALL/FLOOR SLAB AT 12" O.C. AT ALL DOORS & GARAGE BAYS. DRILL STEM WALL/FLOOR SLAB FOR TIGHT FIT. LUBRICATE OR COAT DOWEL. TWO-PART EPOXY RESIN **PROHIBITED**
4. INSTALL HEAVY DUTY ISOLATION JOINTS AT ALL CONSTRUCTION JOINTS AND POUR TERMINUS LOCATIONS ASSOCIATED WITH POUR SEQUENCE.

4 Heavy Duty Concrete Flatwork

Scale: NTS



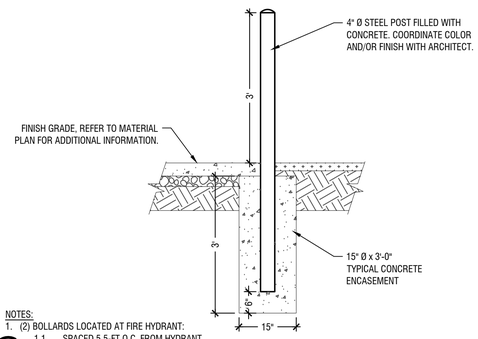
NOTES:
1. REFER TO SPECIFICATION SECTION 32 13 13 FOR ADDITIONAL INFORMATION.
2. SEE MATERIALS AND LAYOUT PLANS FOR JOINT PATTERN AND LOCATION.
3. USE ISOLATION JOINTS AT ALL LOCATIONS WHERE DIFFERENTIAL MOVEMENT BETWEEN THE PAVEMENT AND A STRUCTURE MAY OCCUR.
4. USE HEAVY DUTY SEALED ISOLATION JOINTS AT ALL CONSTRUCTION JOINTS AND POUR TERMINUS LOCATIONS ASSOCIATED WITH POUR SEQUENCE.
5. PROVIDE ISOLATION JOINT AT ALL ELECTRICAL FIXTURE BASES AND UTILITY STRUCTURES UNLESS NOTED OTHERWISE.

8 Concrete Control Joints

Scale: NTS

5 Infiltration Swale

Scale: NTS



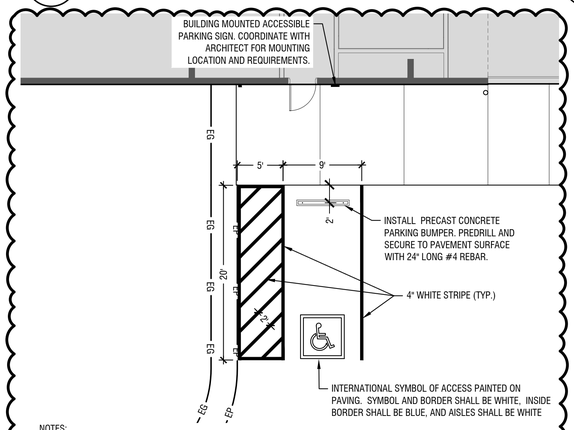
NOTES:
1. (2) BOLLARDS LOCATED AT FIRE HYDRANT:
   1.1. SPACED 5.5-FT O.C. FROM HYDRANT
2. (3) BOLLARDS LOCATED AT GAS METER SHALL:
   2.1. NOT BE SPACED MORE THAN 4-FT O.C.
   2.2. NOT BE LOCATED LESS THAN 3-FT FROM GAS METER, MEASURED FROM OUTSIDE OF BOLLARD.
3. (2) BOLLARDS LOCATED AT TRANSFORMER SHALL:
   3.1. BE LOCATED 12" BEYOND PAD CORNERS @ 45° ANGLE AS TO NOT IMPEDE 10-FT CLEARANCE AT FACE/OPENING. COORDINATE FINAL LOCATION AND ADDITIONAL REQUIREMENTS WITH IDAHO POWER.

9 Steel Site Bollard

Scale: NTS

6 Curb & Reverse Plate Gutter

Scale: NTS



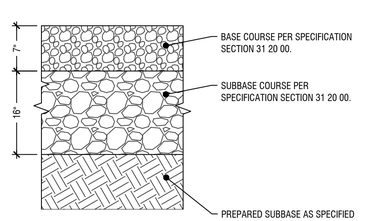
NOTES:
1. PAVEMENT MARKINGS PER SPECIFICATION 32 12 16 & 32 13 13.

10 Accessible Parking Layout

Scale: NTS

7 Curb & Catch Plate Gutter

Scale: NTS



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Drawn By:	CR/JL

Sheet Name:
Site Details

Sheet No:
C2.50

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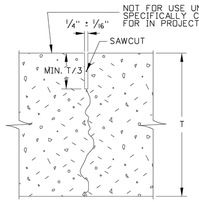
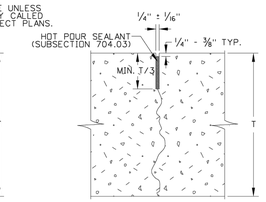
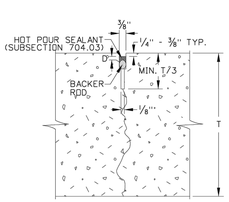


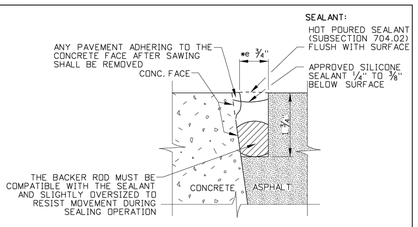
SINGLE CUT
(NO SEALANT)



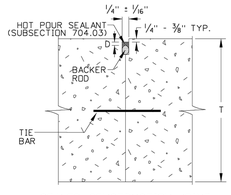
SINGLE CUT
(FIELD-INSTALLED SEALANT)



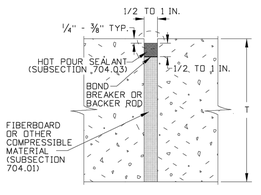
WIDENED CUT
(FIELD-INSTALLED SEALANT)



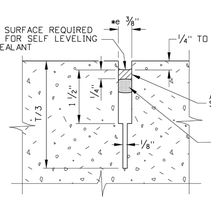
CONCRETE TO ASPHALT



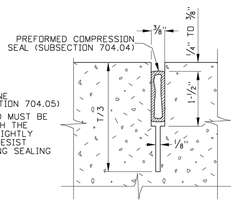
SEALED CONSTRUCTION JOINT
(FIELD-INSTALLED SEALANT)



ISOLATION JOINT
(FIELD-INSTALLED SEALANT)



SILICONE SEALANT

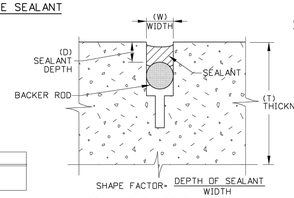


COMPRESSION SEAL

NOTES:

1. FOR HOT-POURED SEALANT, SHAPE FACTOR D/W = 1 (TYPICAL, ONLY IF BACKER ROD USED)
2. FOR SILICONE SEALANT, D/W = 0.5 (TYPICAL)
3. FOR TWO-COMPONENT COLD-POURED SEALANT, D/W = 0.5 (TYPICAL)
4. FOR PREFORMED COMPRESSION SEAL, W IS SIZED FOR SLAB & CLIMATE
5. SUBSECTION REFERENCES ARE ITD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
6. SEALANTS AND PREFORMED SEALS SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
7. SAW CUT TO CONTROL SLAB CRACKING SHALL BE T/3 DEEP."T" EQUALS DESIGN THICKNESS OF CONC. PAVEMENT.

CROSS-SECTIONS:



SEALANT SHAPE FACTOR

SUB-NOTES

*@ DIMENSIONING REFERS TO SEALANT RESERVOIR ONLY.

ORIGINAL STORED AT: ITD, Headquarters 5311 West State Boise, Idaho

PROFESSIONAL ENGINEER REGISTERED LICENSED 6390 STATE OF IDAHO MICHAEL J. SANTI

REVISIONS									
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	04-84	GB	6	01-91	GB	11	09-08	JRV
2	01-85	GB	7	12-92	AS	12	10-10	PLR
3	08-85	GB	8	04-93	MSM	13	08-11	RSC
4	08-86	GB	9	01-97	AS	14	04-13	RDL
5	11-89	GB	10	11-01	MSM			

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 409-1_0513.dgn

DRAWING DATE: APRIL, 1984

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: LOREN THOMAS
HIGHWAYS PROGRAM OVERSIGHT ENGINEER
ORIGINAL SIGNED BY: TOM COLE
CHIEF ENGINEER

STANDARD DRAWING

PORTLAND CEMENT CONCRETE PAVEMENT

REQUIRES SHEETS 1 OF 3 & 2 OF 3

English

STANDARD DRAWING NO.

409-1

SHEET 3 OF 3

ENTIRE SHEET

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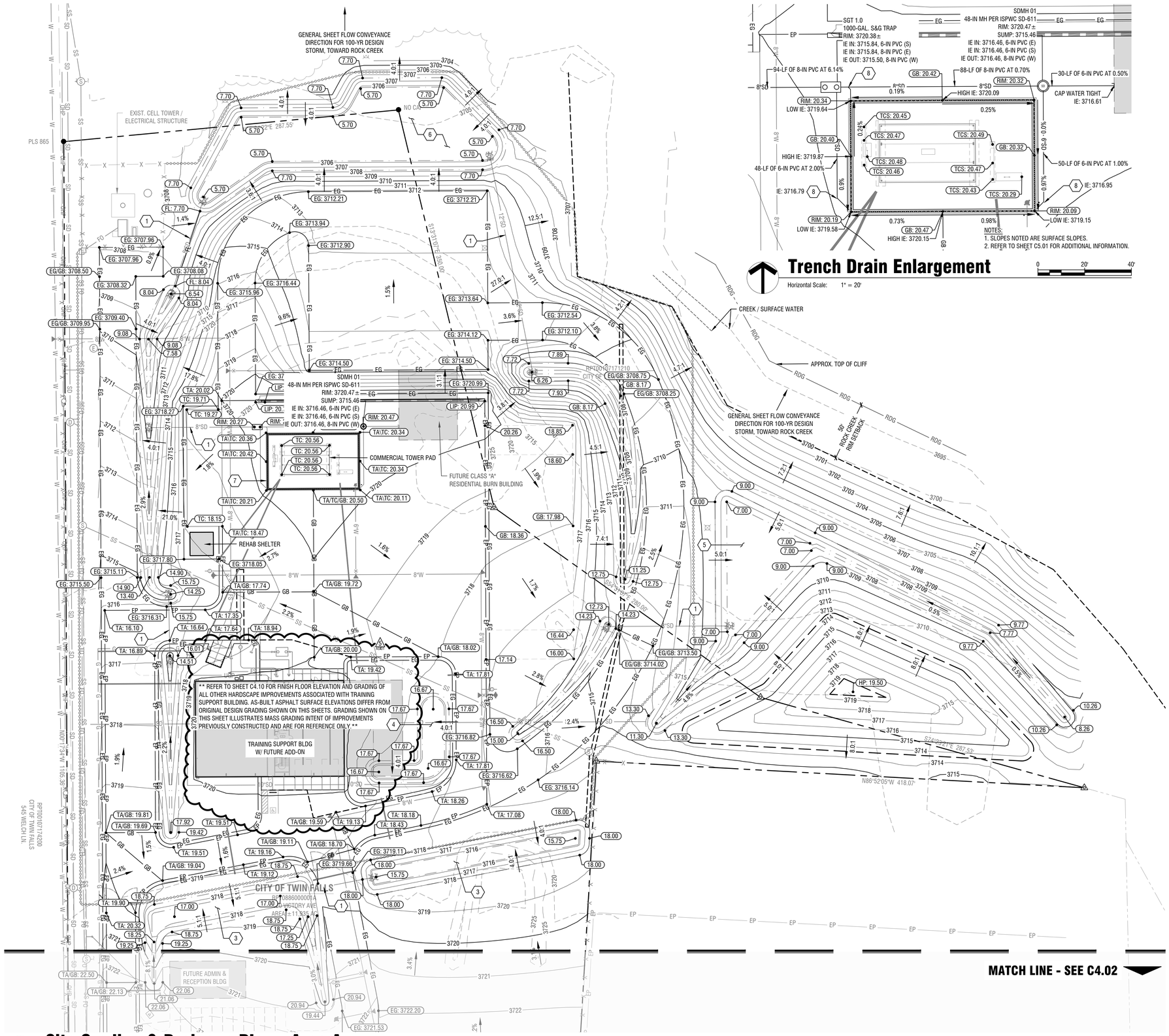
4 PR-02	PR-02	09/23/2022
5 ASI001	ASI-001	01/19/2023

Project No: 120104
Date: 02.04.2022
Checked By: EC/BS
Drawn By: CR/JL

Sheet Name:
Site Details

Sheet No:
C2.52



Site Grading & Drainage Plan - Area A

Horizontal Scale: 1" = 40'

0 40' 80'

Trench Drain Enlargement

Horizontal Scale: 1" = 20'

0 20' 40'

Sheet Notes:

1. CONTRACTOR SHALL COMPLY WITH ALL NOTES ON SHEET C0.00.
2. SPOT ELEVATIONS INDICATE FINISH GRADE OF TOP OR BOTTOM OF DRAINAGE SWALE, OR OTHER SURFACE AS INDICATED BY THE FOLLOWING ABBREVIATIONS:
   - EG-EDGE OF GRAVEL
   - FF-FINISH FLOOR
   - FG-FINISH GRADE
   - FL-FLOW LINE
   - GB-GRADE BREAK
   - HP-HIGH POINT
   - LIP-LIP OF GUTTER
   - TA-TOP OF ASPHALT
   - TC-TOP OF CONCRETE
   - TCS-TOP OF CONCRETE AT STAIR COLUMN
3. EXISTING CONTOURS ARE AT 5-FT INTERVALS, PROPOSED CONTOURS ARE AT 1-FT INTERVALS.
4. ADD 3700' TO ALL SPOT ELEVATIONS FOR ACTUAL ELEVATION.
5. ALL CORRUGATED METAL PIPE (CMP) AND COUPLING BANDS SHALL BE GALVANIZED

Keynotes:

1. REFER TO SHEETS C5.01 & C5.02 FOR ADDITIONAL INFORMATION ON CULVERT INSTALLATION.
2. BASIN A:
   ANTICIPATED SEASONAL HIGH GROUNDWATER ELEV. = 3716.00'
   ANTICIPATED BASALT ELEV. = 3717.51'
3. BASIN B:
   ANTICIPATED SEASONAL HIGH GROUNDWATER ELEV. = 3714.54'
   ANTICIPATED BASALT ELEV. = 3712.34'
4. BASIN C:
   ANTICIPATED SEASONAL HIGH GROUNDWATER ELEV. = 3715.67'
   ANTICIPATED BASALT ELEV. = 3710.67'
5. BASIN D:
   ANTICIPATED SEASONAL HIGH GROUNDWATER ELEV. = 3705.97'
   ANTICIPATED BASALT ELEV. = 3704.47'
6. BASIN E:
   ANTICIPATED SEASONAL HIGH GROUNDWATER ELEV. = 3704.01'
   ANTICIPATED BASALT ELEV. = 3703.32'
7. SEE ENLARGEMENT FOR TRENCH DRAIN RIM ELEVATIONS.
8. CONNECT BOTTOM OUTLET FROM TRENCH DRAIN TO STORM DRAIN MAIN LINE. INSTALL 45-DEG BEND OR WYE FITTING TO CONNECT 4-IN TRENCH DRAIN OUTLET PIPE TO STORM DRAIN MAIN LINE. INSTALL PER MANUFACTURE'S RECOMMENDATIONS AND PROJECT SPECIFICATIONS.

Grading Legend:

- GRADE BREAK — GB — GB —
- FLOW LINE — FL —
- TOP/TOE OF SLOPE
- TOP/BOTTOM OF DRAINAGE SWALE OR BASIN
- PROPOSED PHASE 1 OR FUTURE BUILDING PAD. REFER TO SPECIFICATION SECTION 31 20 00 FOR EXCAVATION, SUBGRADE PREP AND BACKFILL REQUIREMENTS AT BUILDING FOUNDATIONS AND SLABS.

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE FOR ALL INSPECTIONS

pivot north ARCHITECTURE
PIVOT NORTH ARCHITECTURE, PLLC.
1101 W. GROVE STREET
BOISE, ID 83702
www.pivotnorthdesign.com

STAMP: PROFESSIONAL ENGINEER LICENSED 13437 STATE OF IDAHO ERIC CRONIN 01/19/2023

RICEfergusMILLER

THE LAND GROUP

SITE PLAN ONLY PERMIT - CONSTRUCTION DOCUMENTS | BID SET

Project:
TWIN FALLS FIRE DEPARTMENT
JIM BIERI REGIONAL FIRE TRAINING FACILITY
430 VICTORY AVE
TWIN FALLS, ID 83301

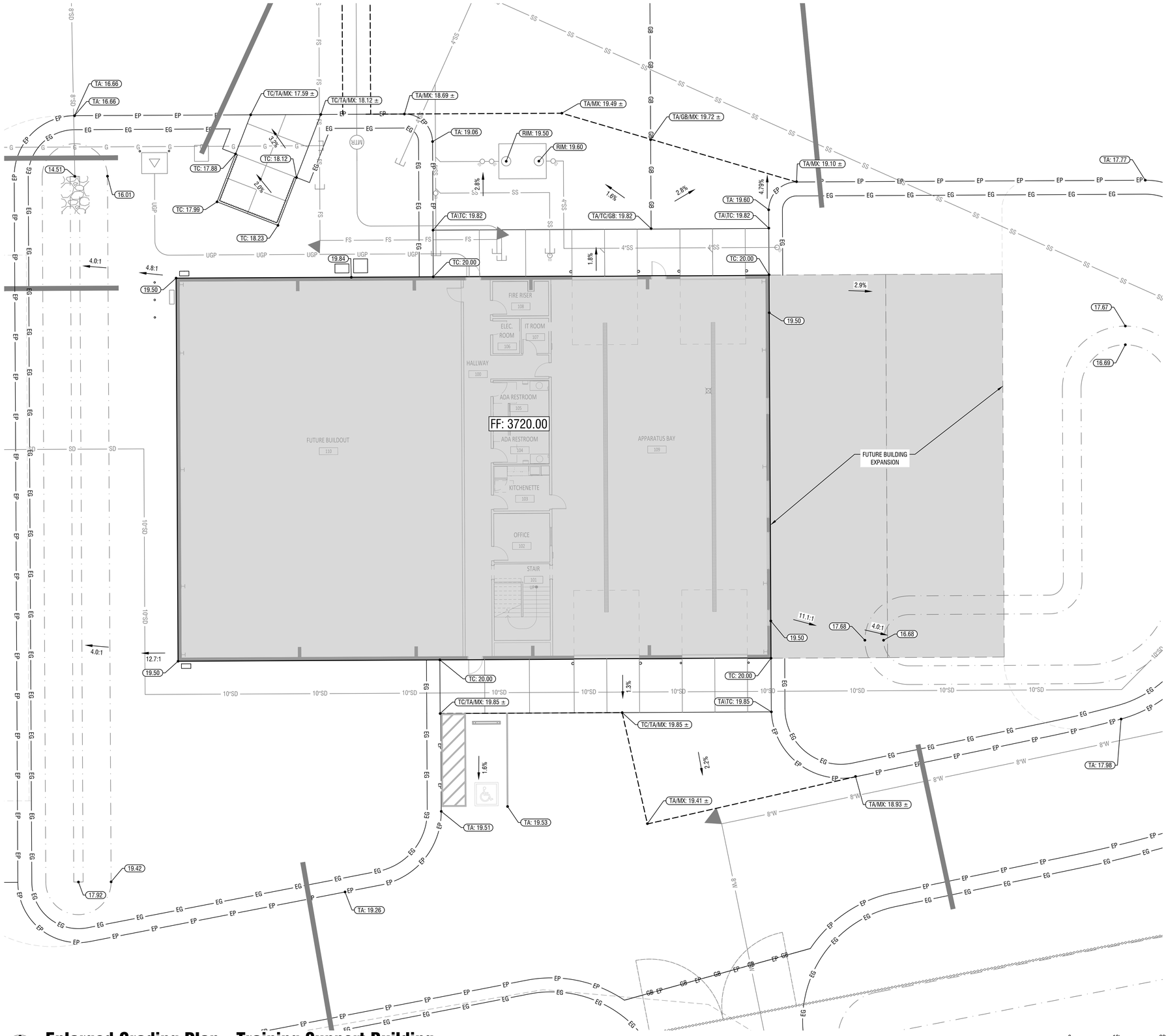
Revisions:

1 REV1	REVISION 1	12/21/2021
2 CITY	CITY COMMENTS	01/04/2022
3 PR-01	PR-01	05/02/2022
4 PR-02	PR-02	09/23/2022
5 ASI-001	ASI-001	01/19/2023

Project No:	120104
Date:	02.04.2022
Checked By:	EC/BS
Drawn By:	CR/JL

Sheet Name:
Site Grading & Drainage Plan - Area A

Sheet No:
C4.01



Sheet Notes:

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   - FF-FINISH FLOOR
   - FG-FINISH GRADE
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   - GB-GRADE BREAK
   - HP-HIGH POINT
   - LIP-LIP OF GUTTER
   - TA-TOP OF ASPHALT
   - TC-TOP OF CONCRETE
   - TCS-TOP OF CONCRETE AT STAIR COLUMN
3. ADD 3700' TO ALL SPOT ELEVATIONS FOR ACTUAL ELEVATION.

Grading Legend:

GRADE BREAK	GB GB
FLOW LINE	FL
APPROXIMATE SAW CUT LIMITS	
TOP/BOTTOM OF DRAINAGE SWALE OR BASIN	
PROPOSED PHASE 1 OR FUTURE BUILDING PAD. REFER TO SPECIFICATION SECTION 31 20 00 FOR EXCAVATION, SUBGRADE PREP AND BACKFILL REQUIREMENTS AT BUILDING FOUNDATIONS AND SLABS.	

Enlarged Grading Plan - Training Support Building

Horizontal Scale: 1" = 10'

0 10' 20'

ENTIRE SHEET

CITY APPROVED PLANS
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Project:
TWIN FALLS FIRE DEPARTMENT
JIM BIERI REGIONAL FIRE TRAINING FACILITY
430 VICTORY AVE
TWIN FALLS, ID 83301

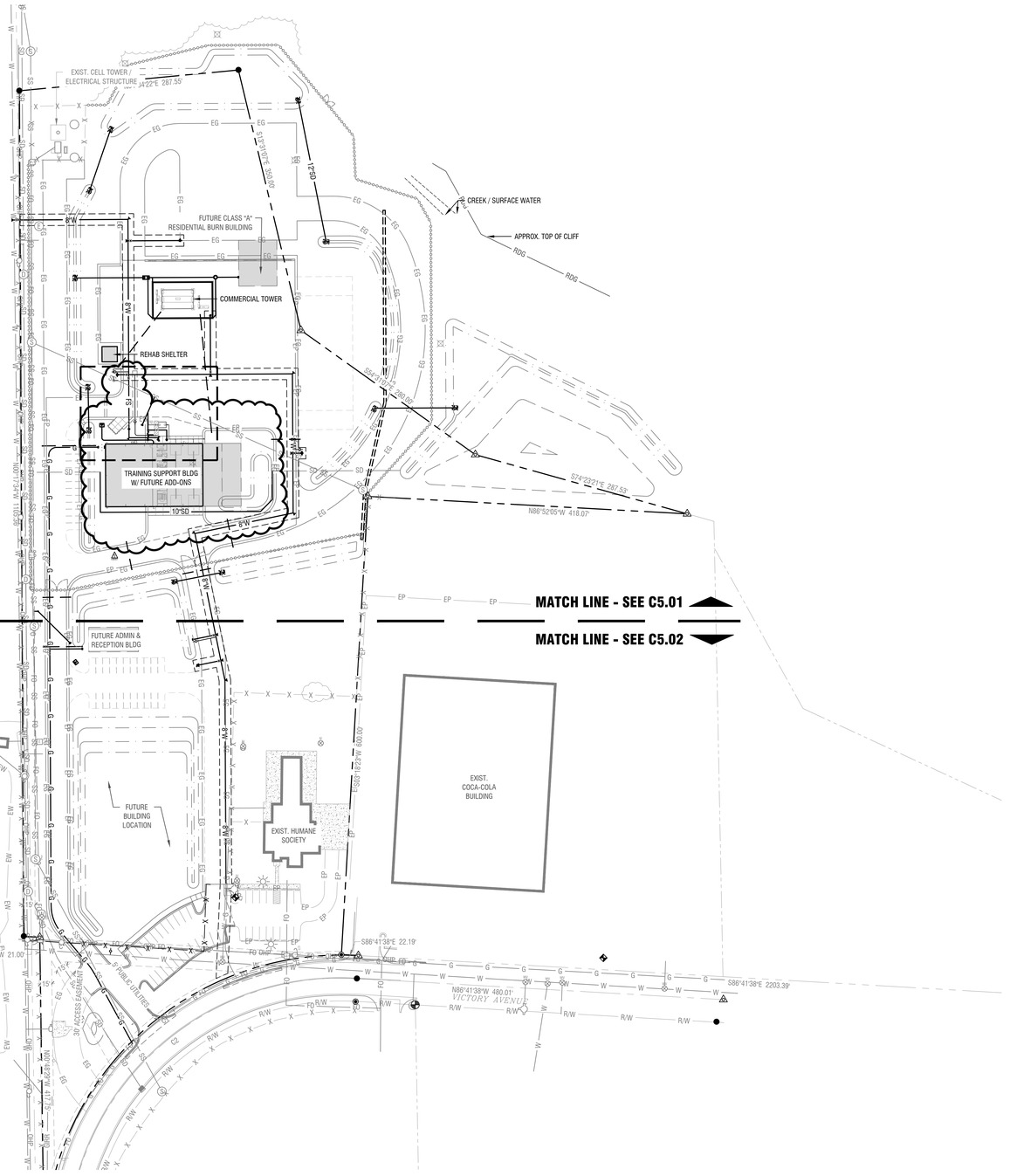
Revisions:

1 REV1	REVISION 1	12/21/2021
2 CITY	CITY COMMENTS	01/04/2022
3 PR-01	PR-01	05/02/2022
4 PR-02	PR-02	09/23/2022
5 ASI001	ASI-001	01/19/2023

Project No:	120104
Date:	02.04.2022
Checked By:	EC/BS
Drawn By:	CR/JL

Sheet Name:
Enlarged Grading Plan - Training Support Building

Sheet No:
C4.10



Site Utility Plan - Overall

Horizontal Scale: 1" = 70'

0 70' 140'

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Project:
TWIN FALLS FIRE DEPARTMENT
JIM BIERI REGIONAL FIRE TRAINING FACILITY
430 VICTORY AVE
TWIN FALLS, ID 83301

Revisions:

1	REVISION 1	12/21/2021
CITY	CITY COMMENTS	01/04/2022
PR01	PR-01	05/02/2022
PR02	PR-02	09/23/2022
ASI001	ASI-001 – PROOF SET	01/10/2023

Project No:	120104
Date:	02.04.2022
Checked By:	EC/BS
Drawn By:	CR/JL

Sheet Name:
Site Utility Plan - Overall

Sheet No:
C5.00

CITY APPROVED PLANS
Reviewed for Code Compliance
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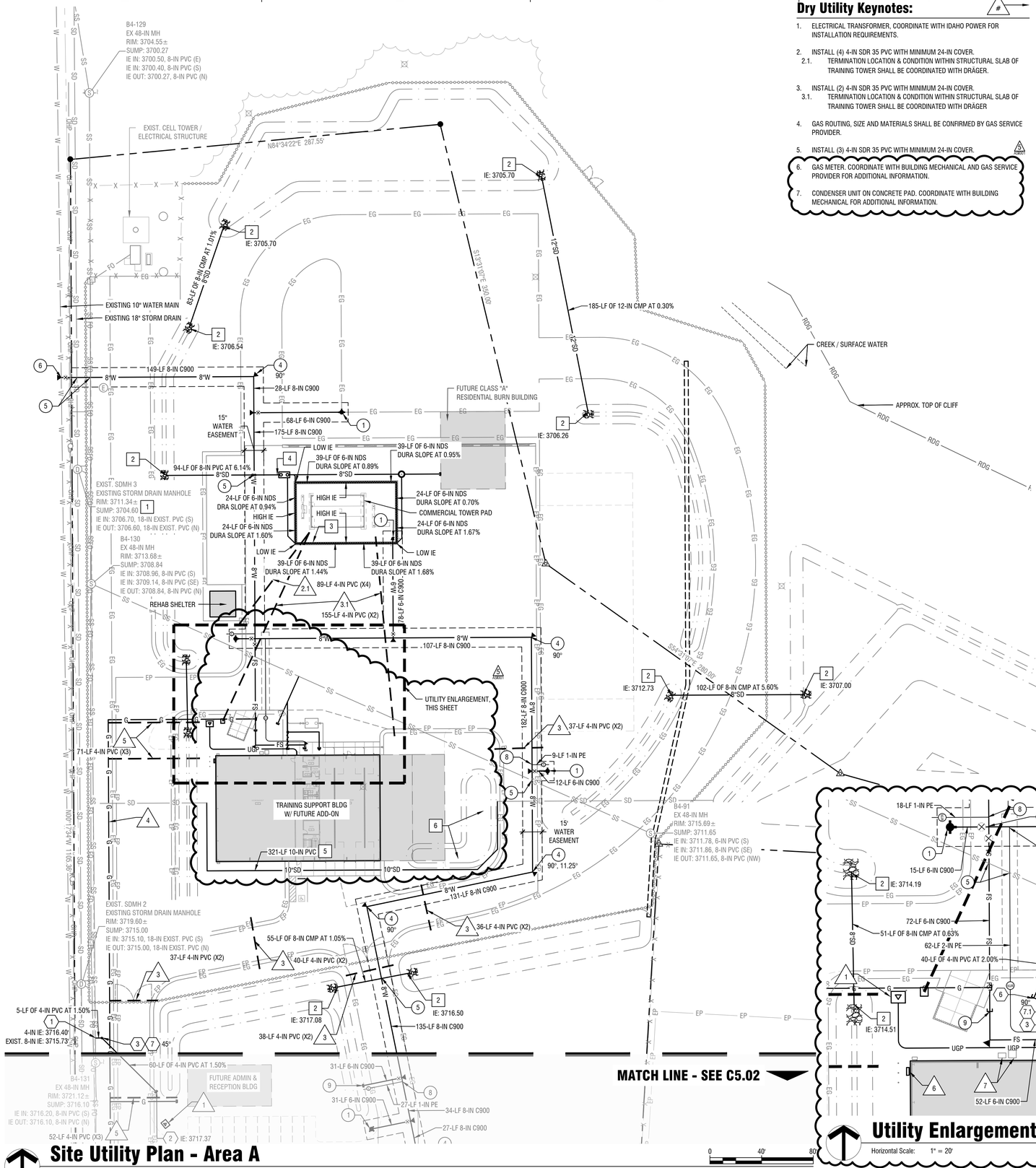

Dry Utility Keynotes:

1. ELECTRICAL TRANSFORMER, COORDINATE WITH IDAHO POWER FOR INSTALLATION REQUIREMENTS.
2. INSTALL (4) 4-IN SDR 35 PVC WITH MINIMUM 24-IN COVER.
   2.1. TERMINATION LOCATION & CONDITION WITHIN STRUCTURAL SLAB OF TRAINING TOWER SHALL BE COORDINATED WITH DRÄGER.
3. INSTALL (2) 4-IN SDR 35 PVC WITH MINIMUM 24-IN COVER.
   3.1. TERMINATION LOCATION & CONDITION WITHIN STRUCTURAL SLAB OF TRAINING TOWER SHALL BE COORDINATED WITH DRÄGER
4. GAS ROUTING, SIZE AND MATERIALS SHALL BE CONFIRMED BY GAS SERVICE PROVIDER.
5. INSTALL (3) 4-IN SDR 35 PVC WITH MINIMUM 24-IN COVER.
6. GAS METER. COORDINATE WITH BUILDING MECHANICAL AND GAS SERVICE PROVIDER FOR ADDITIONAL INFORMATION.
7. CONDENSER UNIT ON CONCRETE PAD. COORDINATE WITH BUILDING MECHANICAL FOR ADDITIONAL INFORMATION.

Storm Drain Keynotes:

1. EXISTING STORM DRAIN MANHOLE INFORMATION WAS NOT AVAILABLE AT TIME OF INITIAL SURVEY. CONTRACTOR SHALL BRING ANY DISCREPANCIES TO THE ENGINEER'S ATTENTION PRIOR TO COMMENCING WORK SHOULD CONNECTIONS BE MADE IN THE FUTURE.
2. INSTALL FLARED END SECTION ON CULVERT, PROVIDE D_{50} = 0.50' RIP-RAP AT 3-FT BEYOND PIPE INVERT AND 1-FT ON EITHER SIDE OF PIPE. RIP-RAP SHALL BE SET FLUSH WITH PROPOSED FINISH GRADE AT INVERT.
3. INSTALL TRENCH DRAIN PER DETAIL 4/C2.51 WITH DUCTILE IRON SLOTTED GRATE (PART NO.: DS-232 LOAD CLASS D, COORDINATE WITH MANUFACTURER FOR FRAME REQUIREMENTS), REFER TO C4.01 FOR ADDITIONAL INFORMATION. COORDINATE WITH COMMERCIAL TOWER PLANS FOR INTERNAL DRAIN(S) LOCATIONS, CONNECT INTERNAL DRAIN(S) TO TRENCH DRAIN.
4. REFER TO TRENCH DRAIN ENLARGEMENT C4.01 FOR STORM WATER INFORMATION EASTERLY OF THIS POINT.
5. GROUNDWATER TILE REROUTE. INSTALL IN ACCORDANCE WITH SPECIFICATION SECTION 33 40 00. PROVIDE UNIFORM GRADIENT BETWEEN POINTS OF CONNECTION.
6. RECONSTRUCT DRAINAGE BASIN AS REQUIRED IN CONJUNCTION WITH GROUNDWATER TILE REROUTE. REFER TO SHEET C4.01 AND DETAIL 5/C2.50.

Line Legend:

UTILITY LINEWORK AND SYMBOLS BOLD ARE PROPOSED, FADED BACK ARE EXISTING

- WATER VALVE
- WATER METER
- FIRE HYDRANT
- FROST FREE HYDRANT / SPIGOT
- WATER MANHOLE
- BLOW OFF
- STORM DRAIN MANHOLE
- RECTANGULAR INLET
- SANITARY SEWER MANHOLE - PROPOSED 48"Ø
- PRESSURE IRRIGATION VALVE
- IRRIGATION BOX
- POWER POLE
- GUY WIRE
- STREET LIGHT
- ELECTRIC MANHOLE
- ELECTRIC BOX
- ELECTRIC VAULT
- TRANSFORMER
- EASEMENT LINE
- SS — SS — SANITARY SEWER LINE (SIZE AS INDICATED)
- SD — SD — STORM DRAIN LINE (SIZE AS INDICATED)
- W — W — WATER LINE (SIZE AS INDICATED)
- GIRR — GRAVITY IRRIGATION LINE
- OHP — OVERHEAD POWER LINE
- G — G — GAS LINE
- FO — FO — FIBER OPTICS LINE
- FS — FIRE SERVICE

Sheet Notes:

A. CONTRACTOR SHALL COMPLY WITH ALL CONSTRUCTION NOTES, ON PLAN SHEET C0.00.

B. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.

C. COORDINATE INSTALLATION OF ELECTRICAL CONDUITS AND IRRIGATION SLEEVES WITH RESPECTIVE DRAWINGS AND CONTRACTORS.

D. REFER TO TOPOGRAPHIC SURVEY, PLAN SHEET C1.00 FOR ADDITIONAL INFORMATION.

E. UTILITY CONTRACTORS ARE RESPONSIBLE FOR VERIFYING LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND TIE IN POINTS PRIOR TO CONSTRUCTION. IF CONFLICTS OR DISCREPANCIES EXIST, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER IMMEDIATELY FOR ADDITIONAL DIRECTION.

F. DRY UTILITY LOCATIONS ARE APPROXIMATE AND SHOWN FOR REFERENCE ONLY. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER FOR ROUTING. COORDINATION WITH ARCHITECT, MECHANICAL AND ELECTRICAL ENGINEERING CONSULTANTS WILL BE REQUIRED TO UNDERSTAND PROPOSED LOADS AND SITE LIGHTING NEEDS.

G. REFER TO SITE GRADING PLAN SHEET C4.00 FOR FINISH GRADING INFORMATION.

H. PIPE LENGTHS NOTED MAY DIFFER FROM ACTUAL INSTALLED LENGTH AND ARE PROVIDED FOR REFERENCE.

I. BOTH DOMESTIC AND FIRE SERVICE WATER LINES REQUIRE A BACKFLOW PREVENTION DEVICE AT THE POINT OF ENTRY TO THE BUILDING OR PROP. THE TYPE OF DEVICE IS CONTINGENT ON THE DEGREE OF HAZARD AND MUST MEET IDAHO DEQ STANDARDS.

J. ALL WATER SERVICE LINES SHALL BE CONSTRUCTED WITH MINIMUM CLASS 200 POLYETHYLENE PIPE CONFORMING TO AWWA C-901.

K. ALL WATER DISTRIBUTION MAINS INCLUDING FIRE SERVICE LATERALS SHALL BE CONSTRUCTED WITH CLASS 165 PVC PIPE CONFORMING TO AWWA C-900.

L. ALL PVC STORM DRAIN OR SEWER PIPE SHALL BE ASTM D3034 SDR-35 PVC. ALL CORRUGATED METAL PIPE (CMP) AND COUPLING BANDS SHALL BE GALVANIZED AND CONFORM TO AASHTO M36 AND AASHTO M218.

M. ALL PIPE FITTINGS, BENDS AND JOINTS SHALL BE WATER TIGHT. PROVIDE REQUIRED FITTINGS TO TRANSITION BETWEEN PIPE MATERIAL, SIZE AND TYPE.

N. THE HORIZONTAL SEPARATION OF POTABLE WATER MAINS AND NON-POTABLE WATER MAINS (SANITARY SEWER, STORM DRAIN, AND IRRIGATION) SHALL BE A MINIMUM OF TEN (10) FEET. THE HORIZONTAL SEPARATION OF NON-POTABLE SERVICES AND POTABLE WATER SERVICES OR POTABLE WATER MAINS SHALL BE A MINIMUM OF SIX (6) FEET. WHERE IT IS NECESSARY FOR A POTABLE WATER MAIN AND NON-POTABLE WATER MAIN TO CROSS WITH LESS THAN EIGHTEEN (18) INCHES OF VERTICAL SEPARATION, THE CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 542.07 OF THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08) AND SECTION 430.02 OF THE WASTEWATER RULES (IDAPA 58.01.16).

Water Keynotes:

1. INSTALL FIRE HYDRANT PER CITY OF TWIN FALLS STANDARD DRAWING TFSD-404.
2. COORDINATE CONTINUATION WITH BUILDING MECHANICAL.
   2.1. 6-IN FIRE SERVICE CONNECTION
   2.2. 2-IN DOMESTIC WATER SERVICE CONNECTION, TRANSITION TO 2.5-IN FOR CONTINUATION WITHIN BUILDING, PROVIDE AND INSTALL FITTINGS AS REQUIRED.
3. INSTALL 1-8" CROSS, 2-8"x6" REDUCERS, 2-6" GATE VALVES AND THRUST BLOCK PER ISPWC SD-403.
4. INSTALL 8" BEND(S) WITH ANGLE(S) NOTED (XX°) AND THRUST BLOCK PER ISPWC SD-403.
5. POTABLE/NON-POTABLE WATER SEPARATION REQUIRED. SEE SHEET NOTE N/THIS SHEET.
6. HOT-TAP EXISTING 10-IN WATER MAIN FOR 8-IN GATE VALVE AND MAIN LINE, INSTALL THRUST BLOCKING PER ISPWC SD-403.
7. CONNECT TO EXISTING WATER STUB, CONFIRM SUITABILITY OF CONNECTION PRIOR TO COMMENCING CONSTRUCTION, BRING ANY DISCREPANCIES TO ENGINEER.
8. INSTALL 1-IN WATER SERVICE CONNECTION & 1-IN CITY-APPROVED WATER METER PER CITY OF TWIN FALLS STANDARD DRAWING TFSD-401.
9. INTERCEPT AND EXTEND FIRE SERVICE FROM EXISTING STUB LOCATION TO POINT OF CONNECTION WITH BUILDING MECHANICAL. INSTALL PIPE AND (2) 90-DEG ELBOWS WITH THRUST BLOCKS AS SHOWN.
10. REMOVE AND DISPOSE OF 1-IN WATER SERVICE CONNECTION & 1-IN CITY-APPROVED WATER METER, SAW CUT ASPHALT PAVEMENT AND INSTALL 2-IN WATER SERVICE AND 2-IN WATER METER PER CITY OF TWIN FALLS STANDARD DRAWING TFSD-402A. EXTEND 2-IN SERVICE BEOND METER BOX TO POINT OF CONNECTION WITH BUILDING MECHANICAL.

Sewer Keynotes:

1. TAP EXISTING 8" SEWER MAIN IN ACCORDANCE WITH CITY OF TWIN FALLS STANDARD DRAWING TFSD-511.
2. CAP WATER TIGHT AND MARK SEWER STUB PER ISPWC SD-512.
   2.1. OMIT ABOVE GRADE MARKER.
3. INSTALL CLEANOUT PER DETAIL 1/C2.51.
4. INSTALL 1000-GALLON SAND & GREASE TRAP PER DETAIL 3/C2.51.
5. FLAMMABLE LIQUIDS INTERCEPTOR AND ASSOCIATED PIPING.
   5.1. INTERCEPT EXISTING SEWER SERVICE. COORDINATE WITH BUILDING MECHANICAL FOR CONNECTION AND INVERT TRANSITION.
6. ABANDON SEWER SERVICE STUB IN-PLACE. REMOVE ABOVE GRADE MARKER.
7. INSTALL 4" BEND/FITTING AS NOTED.
   7.1. INTERCEPT EXISTING SERVICE STUB AND EXTEND AS NOTED. REMOVE ±13-LF SOUTH OF CONNECTION POINT.
8. COORDINATE WITH BUILDING MECHANICAL FOR CONTINUATION

CITY APPROVED PLANS
Reviewed for Code Compliance
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pivot north ARCHITECTURE

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STAMP: PROFESSIONAL ENGINEER LICENSED 13437 STATE OF IDAHO ERIC CRONIN 01/19/2023

RICEfergusMILLER

THE LAND GROUP

SITE PLAN ONLY PERMIT - CONSTRUCTION DOCUMENTS | BID SET

Project:
TWIN FALLS FIRE DEPARTMENT
JIM BIERI REGIONAL FIRE TRAINING FACILITY
430 VICTORY AVE
TWIN FALLS, ID 83301

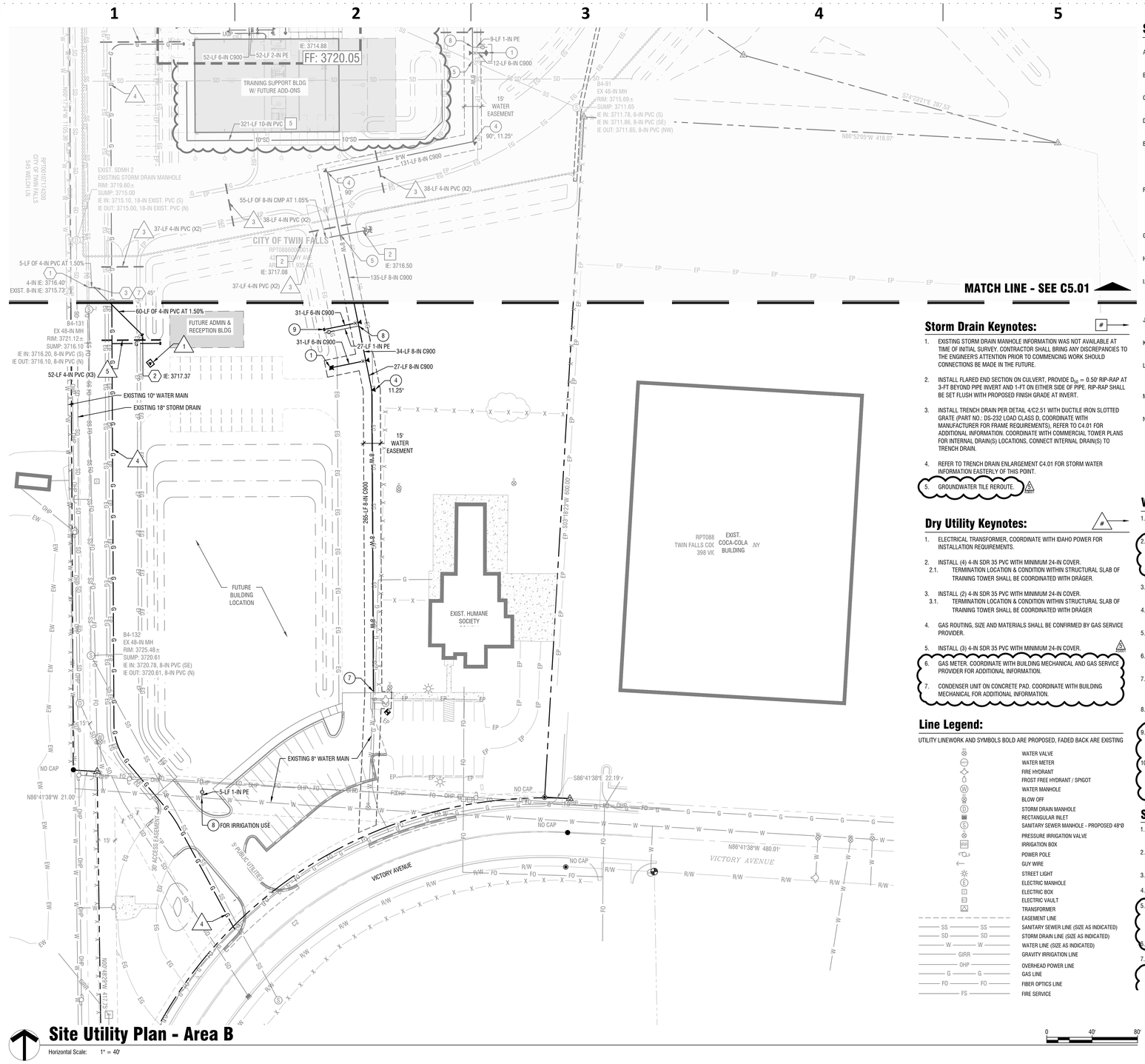
Revisions:

1 REVS	REVISION 1	12/21/2021
2 CITY	CITY COMMENTS	01/04/2022
3 PR01	PR-01	05/02/2022
4 PR02	PR-02	09/23/2022
5 ASI001	ASI-001	01/19/2023

Project No: 120104
Date: 02.04.2022
Checked By: EC/BS
Drawn By: CR/JL

Sheet Name: Site Utility Plan - Area A

Sheet No: C5.01



Site Utility Plan - Area B

Horizontal Scale: 1" = 40'

0 40' 80'

Storm Drain Keynotes:

1. EXISTING STORM DRAIN MANHOLE INFORMATION WAS NOT AVAILABLE AT TIME OF INITIAL SURVEY. CONTRACTOR SHALL BRING ANY DISCREPANCIES TO THE ENGINEER'S ATTENTION PRIOR TO COMMENCING WORK SHOULD CONNECTIONS BE MADE IN THE FUTURE.
2. INSTALL FLARED END SECTION ON CULVERT, PROVIDE D_{50} = 0.50' RIP-RAP AT 3-FT BEYOND PIPE INVERT AND 1-FT ON EITHER SIDE OF PIPE. RIP-RAP SHALL BE SET FLUSH WITH PROPOSED FINISH GRADE AT INVERT.
3. INSTALL TRENCH DRAIN PER DETAIL 4/C2.51 WITH DUCTILE IRON SLOTTED GRATE (PART NO.: DS-232 LOAD CLASS D, COORDINATE WITH MANUFACTURER FOR FRAME REQUIREMENTS), REFER TO C4.01 FOR ADDITIONAL INFORMATION. COORDINATE WITH COMMERCIAL TOWER PLANS FOR INTERNAL DRAIN(S) LOCATIONS, CONNECT INTERNAL DRAIN(S) TO TRENCH DRAIN.
4. REFER TO TRENCH DRAIN ENLARGEMENT C4.01 FOR STORM WATER INFORMATION EASTERLY OF THIS POINT.
5. GROUNDWATER TILE REROUTE. (ASSIST)

Dry Utility Keynotes:

1. ELECTRICAL TRANSFORMER. COORDINATE WITH IDAHO POWER FOR INSTALLATION REQUIREMENTS.
2. INSTALL (4) 4-IN SDR 35 PVC WITH MINIMUM 24-IN COVER.
   2.1. TERMINATION LOCATION & CONDITION WITHIN STRUCTURAL SLAB OF TRAINING TOWER SHALL BE COORDINATED WITH DRÄGER.
3. INSTALL (2) 4-IN SDR 35 PVC WITH MINIMUM 24-IN COVER.
   3.1. TERMINATION LOCATION & CONDITION WITHIN STRUCTURAL SLAB OF TRAINING TOWER SHALL BE COORDINATED WITH DRÄGER
4. GAS ROUTING, SIZE AND MATERIALS SHALL BE CONFIRMED BY GAS SERVICE PROVIDER.
5. INSTALL (3) 4-IN SDR 35 PVC WITH MINIMUM 24-IN COVER. (ASSIST)
6. GAS METER. COORDINATE WITH BUILDING MECHANICAL AND GAS SERVICE PROVIDER FOR ADDITIONAL INFORMATION.
7. CONDENSER UNIT ON CONCRETE PAD. COORDINATE WITH BUILDING MECHANICAL FOR ADDITIONAL INFORMATION.

Line Legend:

UTILITY LINEWORK AND SYMBOLS BOLD ARE PROPOSED, FADED BACK ARE EXISTING

- WATER VALVE
- WATER METER
- FIRE HYDRANT
- FROST FREE HYDRANT / SPIGOT
- WATER MANHOLE
- BLOW OFF
- STORM DRAIN MANHOLE
- RECTANGULAR INLET
- SANITARY SEWER MANHOLE - PROPOSED 48"Ø
- PRESSURE IRRIGATION VALVE
- IRRIGATION BOX
- POWER POLE
- GUY WIRE
- STREET LIGHT
- ELECTRIC MANHOLE
- ELECTRIC BOX
- ELECTRIC VAULT
- TRANSFORMER
- EASEMENT LINE
- SANITARY SEWER LINE (SIZE AS INDICATED)
- STORM DRAIN LINE (SIZE AS INDICATED)
- WATER LINE (SIZE AS INDICATED)
- GRAVITY IRRIGATION LINE
- OVERHEAD POWER LINE
- GAS LINE
- FIBER OPTICS LINE
- FIRE SERVICE

Sheet Notes:

A. CONTRACTOR SHALL COMPLY WITH ALL CONSTRUCTION NOTES, ON PLAN SHEET C0.00.

B. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.

C. COORDINATE INSTALLATION OF ELECTRICAL CONDUITS AND IRRIGATION SLEEVES WITH RESPECTIVE DRAWINGS AND CONTRACTORS.

D. REFER TO TOPOGRAPHIC SURVEY, PLAN SHEET C1.00 FOR ADDITIONAL INFORMATION.

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F. DRY UTILITY LOCATIONS ARE APPROXIMATE AND SHOWN FOR REFERENCE ONLY. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER FOR ROUTING. COORDINATION WITH ARCHITECT, MECHANICAL AND ELECTRICAL ENGINEERING CONSULTANTS WILL BE REQUIRED TO UNDERSTAND PROPOSED LOADS AND SITE LIGHTING NEEDS.

G. REFER TO SITE GRADING PLAN SHEET C4.00 FOR FINISH GRADING INFORMATION.

H. PIPE LENGTHS NOTED MAY DIFFER FROM ACTUAL INSTALLED LENGTH AND ARE PROVIDED FOR REFERENCE.

I. BOTH DOMESTIC AND FIRE SERVICE WATER LINES REQUIRE A BACKFLOW PREVENTION DEVICE AT THE POINT OF ENTRY TO THE BUILDING OR PROP. THE TYPE OF DEVICE IS CONTINGENT ON THE DEGREE OF HAZARD AND MUST MEET IDAHO DEQ STANDARDS.

J. ALL WATER SERVICE LINES SHALL BE CONSTRUCTED WITH MINIMUM CLASS 200 POLYETHYLENE PIPE CONFORMING TO AWWA C-901.

K. ALL WATER DISTRIBUTION MAINS INCLUDING FIRE SERVICE LATERALS SHALL BE CONSTRUCTED WITH CLASS 165 PVC PIPE CONFORMING TO AWWA C-900.

L. ALL PVC STORM DRAIN OR SEWER PIPE SHALL BE ASTM D3034 SDR-35 PVC. ALL CORRUGATED METAL PIPE (CMP) AND COUPLING BANDS SHALL BE GALVANIZED AND CONFORM TO AASHTO M36 AND AASHTO M218.

M. ALL PIPE FITTINGS, BENDS AND JOINTS SHALL BE WATER TIGHT. PROVIDE REQUIRED FITTINGS TO TRANSITION BETWEEN PIPE MATERIAL, SIZE AND TYPE.

N. THE HORIZONTAL SEPARATION OF POTABLE WATER MAINS AND NON-POTABLE WATER MAINS (SANITARY SEWER, STORM DRAIN, AND IRRIGATION) SHALL BE A MINIMUM OF TEN (10) FEET. THE HORIZONTAL SEPARATION OF NON-POTABLE SERVICES AND POTABLE WATER SERVICES OR POTABLE WATER MAINS SHALL BE A MINIMUM OF SIX (6) FEET. WHERE IT IS NECESSARY FOR A POTABLE WATER MAIN AND NON-POTABLE WATER MAIN TO CROSS WITH LESS THAN EIGHTEEN (18) INCHES OF VERTICAL SEPARATION, THE CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 542.07 OF THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08) AND SECTION 430.02 OF THE WASTEWATER RULES (IDAPA 58.01.16).

Water Keynotes:

1. INSTALL FIRE HYDRANT PER CITY OF TWIN FALLS STANDARD DRAWING TFSD-404.
2. COORDINATE CONTINUATION WITH BUILDING MECHANICAL. (ASSIST)
   2.1. 6-IN FIRE SERVICE CONNECTION
   2.2. 2-IN DOMESTIC WATER SERVICE CONNECTION, TRANSITION TO 2.5-IN FOR CONTINUATION WITHIN BUILDING, PROVIDE AND INSTALL FITTINGS AS REQUIRED.
3. INSTALL 1-8" CROSS, 2-8"x6" REDUCERS, 2-6" GATE VALVES AND THRUST BLOCK PER ISPWC SD-403.
4. INSTALL 8" BEND(S) WITH ANGLE(S) NOTED (XX°) AND THRUST BLOCK PER ISPWC SD-403.
5. POTABLE/NON-POTABLE WATER SEPARATION REQUIRED. SEE SHEET NOTE N/THIS SHEET.
6. HOT-TAP EXISTING 10-IN WATER MAIN FOR 8-IN GATE VALVE AND MAIN LINE, INSTALL THRUST BLOCKING PER ISPWC SD-403.
7. CONNECT TO EXISTING WATER STUB. CONFIRM SUITABILITY OF CONNECTION PRIOR TO COMMENCING CONSTRUCTION, BRING ANY DISCREPANCIES TO ENGINEER.
8. INSTALL 1-IN WATER SERVICE CONNECTION & 1-IN CITY-APPROVED WATER METER PER CITY OF TWIN FALLS STANDARD DRAWING TFSD-401.
9. INTERCEPT AND EXTEND FIRE SERVICE FROM EXISTING STUB LOCATION TO POINT OF CONNECTION WITH BUILDING MECHANICAL. INSTALL PIPE AND (2) 90-DEG ELBOWS WITH THRUST BLOCKS AS SHOWN. (ASSIST)
10. REMOVE AND DISPOSE OF 1-IN WATER SERVICE CONNECTION & 1-IN CITY-APPROVED WATER METER, SAW CUT ASPHALT PAVEMENT AND INSTALL 2-IN WATER SERVICE AND 2-IN WATER METER PER CITY OF TWIN FALLS STANDARD DRAWING TFSD-402A. EXTEND 2-IN SERVICE BEOND METER BOX TO POINT OF CONNECTION WITH BUILDING MECHANICAL.

Sewer Keynotes:

1. TAP EXISTING 8" SEWER MAIN IN ACCORDANCE WITH CITY OF TWIN FALLS STANDARD DRAWING TFSD-511.
2. CAP WATER TIGHT AND MARK SEWER STUB PER ISPWC SD-512.
   2.1. OMIT ABOVE GRADE MARKER.
3. INSTALL CLEANOUT PER DETAIL 1/C2.51.
4. INSTALL 1000-GALLON SAND & GREASE TRAP PER DETAIL 3/C2.51. (ASSIST)
5. FLAMMABLE LIQUIDS INTERCEPTOR AND ASSOCIATED PIPING.
   5.1. INTERCEPT EXISTING SEWER SERVICE. COORDINATE WITH BUILDING MECHANICAL FOR CONNECTION AND INVERT TRANSITION.
6. ABANDON SEWER SERVICE STUB IN-PLACE. REMOVE ABOVE GRADE MARKER.
7. INSTALL 4" BEND/FITTING AS NOTED.
   7.1. INTERCEPT EXISTING SERVICE STUB AND EXTEND AS NOTED. REMOVE ±13-LF SOUTH OF CONNECTION POINT. (ASSIST)

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THE LAND GROUP

SITE PLAN ONLY PERMIT - CONSTRUCTION DOCUMENTS | BID SET

Project:
TWIN FALLS FIRE DEPARTMENT
JIM BIERI REGIONAL FIRE TRAINING FACILITY
430 VICTORY AVE
TWIN FALLS, ID 83301

Revisions:

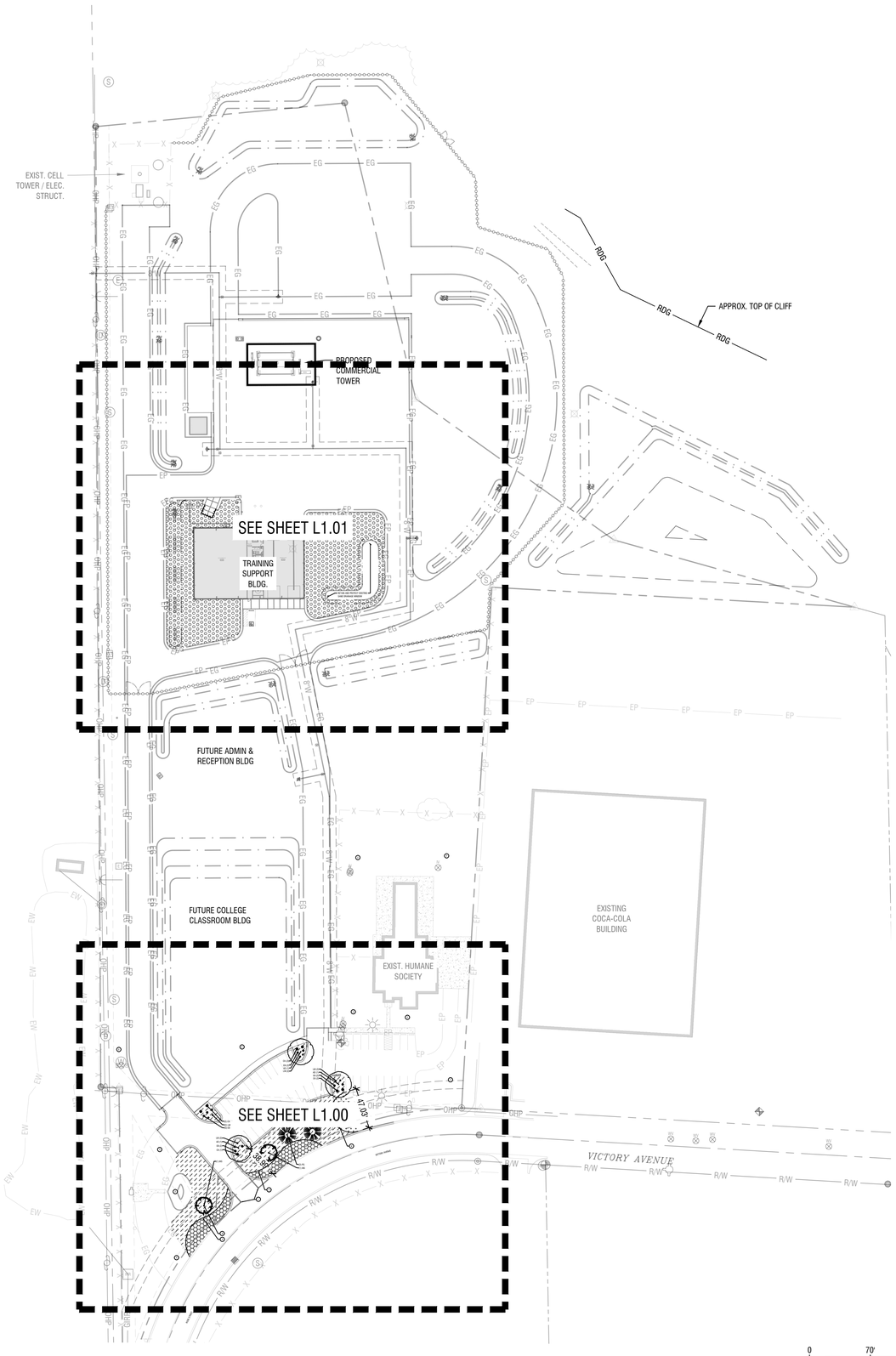
1 REV1	REVISION 1	12/21/2021
2 CITY	CITY COMMENTS	01/04/2022
3 PR01	PR-01	05/02/2022
4 PR02	PR-02	09/23/2022
5 ASI01	ASI-001 – PROOF SET	01/10/2023

Project No: 120104
Date: 02.04.2022
Checked By: EC/BS
Drawn By: CR/JL

Sheet Name:
Site Utility Plan - Area B

Sheet No:
C5.02

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE
FOR ALL INSPECTIONS



Landscape Plan - Overall

Horizontal Scale: 1" = 70'

0 70' 140'

Project Information:

PROJECT DEVELOPMENT TYPE: COMMERICAL
EXISTING SITE ZONING: M-2; HEAVY MANUFACTURING DISTRICT
PROJECT SITE ZONING: UNCHANGED, M-2 WILL REMAIN
PROJECT STREET FRONTAGES: VICTORY AVENUE & ROSE STREET

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE FOR ALL INSPECTIONS

ENTIRE SHEET

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Project:

TWIN FALLS FIRE DEPARTMENT
JIM BIERI REGIONAL FIRE TRAINING FACILITY
430 VICTORY AVE
TWIN FALLS, ID 83301

Revisions:

1 REVS	REVISION 1	12/21/2021
2 CITY	CITY COMMENTS	01/04/2022
3 PR-01	PR-01	05/02/2022
4 PR-02	PR-02	09/23/2022
5 ASI001	ASI-001	01/19/2023

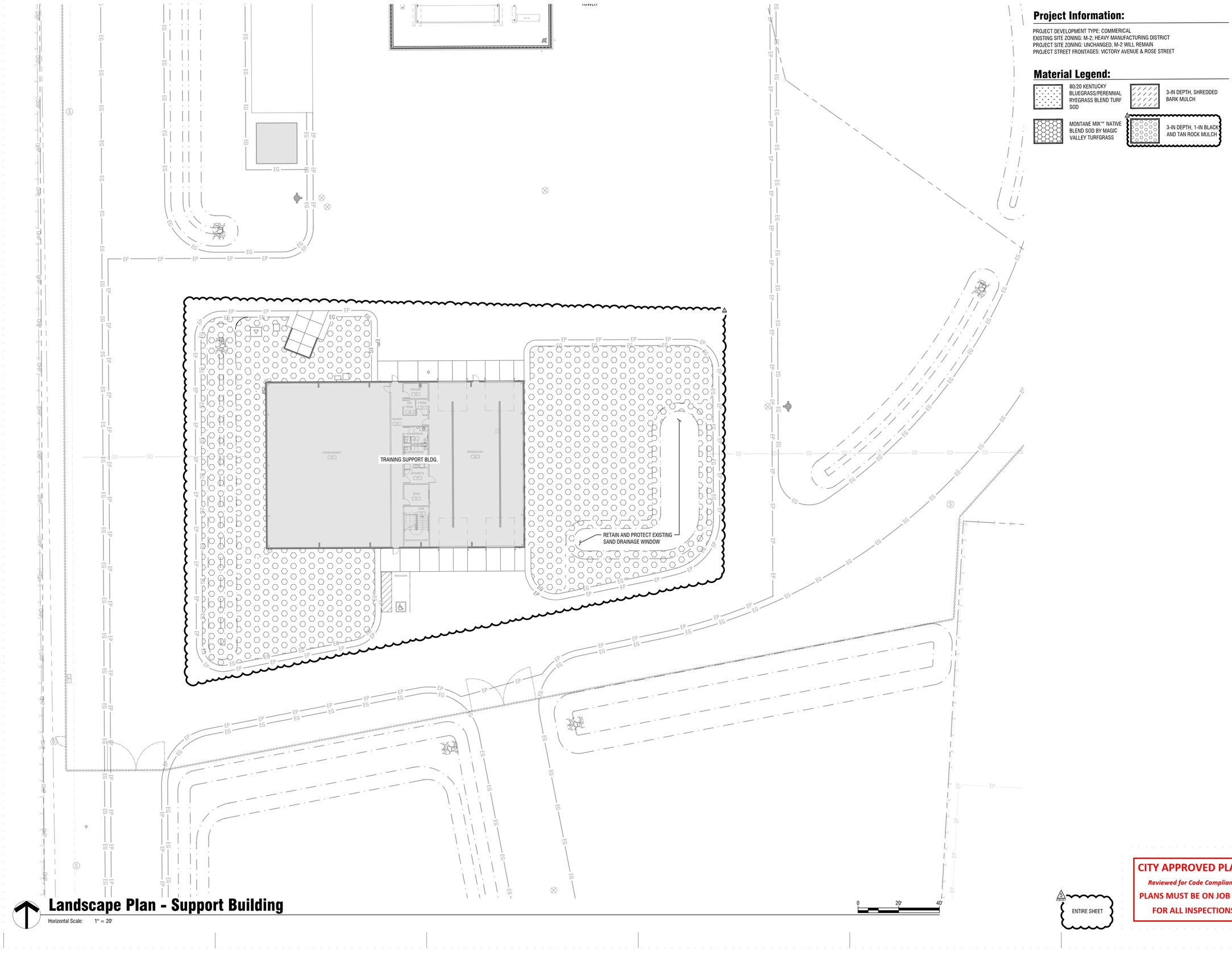
Project No:	120104
Date:	02.04.2022
Checked By:	EC/BS
Drawn By:	CR/JL

Sheet Name:

Landscape Plan - Overall

Sheet No:

L0.00



Landscape Plan - Support Building

Horizontal Scale: 1" = 20'

Project Information:

PROJECT DEVELOPMENT TYPE: COMMERICAL
EXISTING SITE ZONING: M-2; HEAVY MANUFACTURING DISTRICT
PROJECT SITE ZONING: UNCHANGED, M-2 WILL REMAIN
PROJECT STREET FRONTAGES: VICTORY AVENUE & ROSE STREET

Material Legend:

- 80/20 KENTUCKY BLUEGRASS/PERENNIAL RYEGRASS BLEND TURF SOD
- 3-IN DEPTH, SHREDDED BARK MULCH
- MONTANE MIX™ NATIVE BLEND SOD BY MAGIC VALLEY TURFGRASS
- 3-IN DEPTH, 1-IN BLACK AND TAN ROCK MULCH

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SITE PLAN ONLY PERMIT - CONSTRUCTION DOCUMENTS | BID SET

Project:
TWIN FALLS FIRE DEPARTMENT
JIM BIERI REGIONAL FIRE
TRAINING FACILITY
430 VICTORY AVE
TWIN FALLS, ID 83301

Revisions:

1 REVS	REVISION 1	12/21/2021
2 CITY	CITY COMMENTS	01/04/2022
3 PR-01	PR-01	05/02/2022
4 PR-02	PR-02	09/23/2022
5 ASI001	ASI-001	01/19/2023

Project No:	120104
Date:	02.04.2022
Checked By:	EC/BS
Drawn By:	CR/JL

Sheet Name:
Landscape Plan - Support Building

Sheet No:
L1.01

5 ENTIRE SHEET

CITY APPROVED PLANS
Reviewed for Code Compliance
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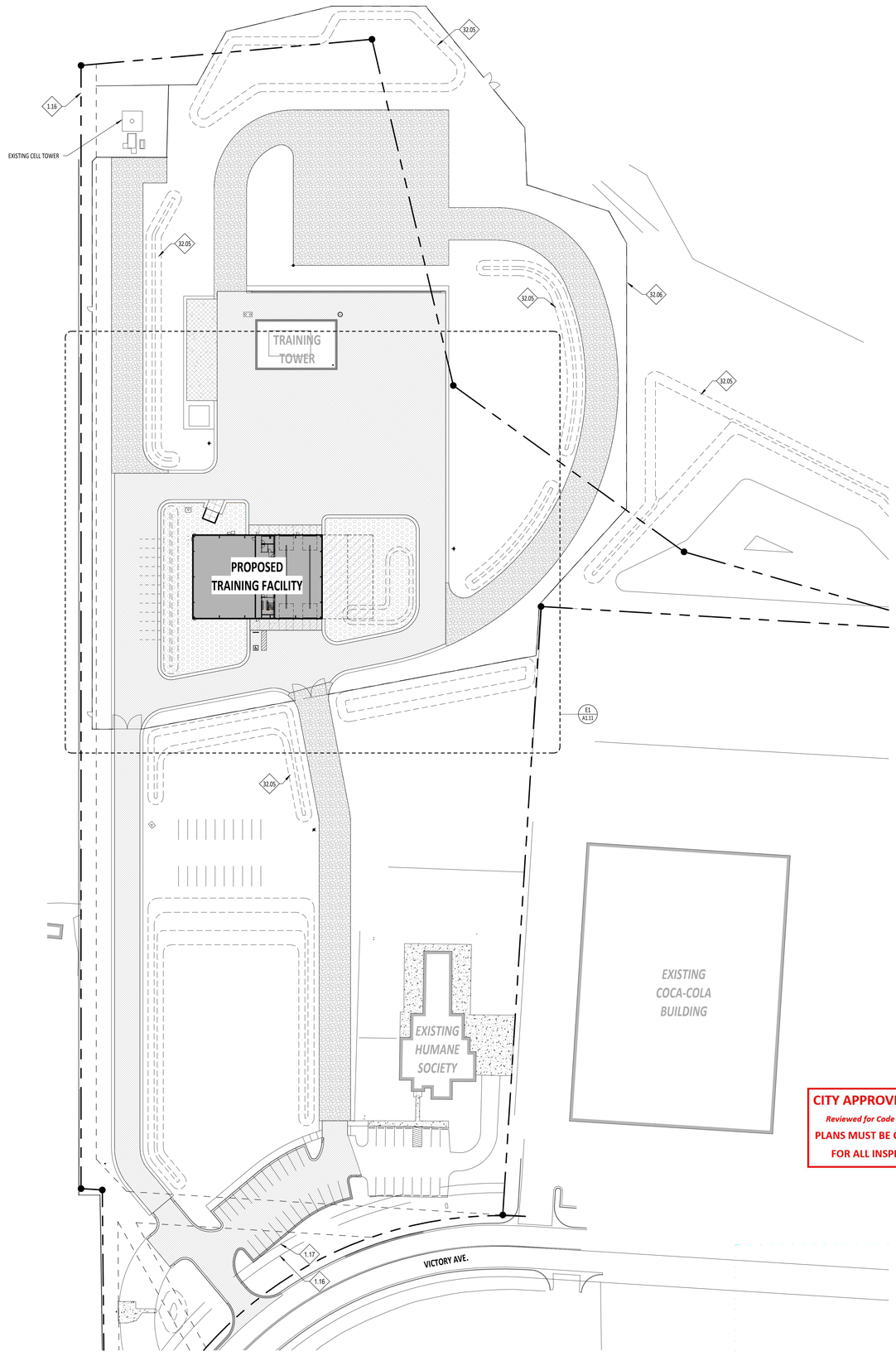

E3 / A1.01 SITE PLAN
1" = 50'-0"

NOTES - REFERENCE NOTES

1.16	PROPERTY LINE. RE: CIVIL DRAWINGS.
1.17	SETBACK LINE. RE: CIVIL DRAWINGS.
32.05	RETENTION POND AREA - TYPICAL. RE: CIVIL DRAWINGS.
32.06	NEW FENCING AND GATES. RE: CIVIL DRAWINGS.

GENERAL NOTES - SITE PLAN

1. PRIOR TO START OF CONSTRUCTION, CONTRACTOR TO VERIFY POSITION AND CONDITION OF ALL EXISTING BENCHMARKS.
2. EXISTING BENCHMARKS ARE NOT TO BE DISTURBED.
3. COORDINATE WITH CIVIL FOR GRADING AND DRAINAGE ELEVATIONS.
4. ANY DISCREPANCIES IN ACTUAL FIELD CONDITIONS, IF AT ODDS WITH INDICATIONS IN THESE DOCUMENTS, SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT OR CONSTRUCTION MANAGER.
5. FOR THE SOILS INVESTIGATION REPORT OF THIS SITE, REFERENCE PART 'C'- GEOTECHNICAL INFORMATION IN THE SPECIFICATIONS. COPIES OF THE SOILS INVESTIGATION REPORT ARE AVAILABLE FROM THE CONSTRUCTION MANAGER, THE GEOTECHNICAL ENGINEER, AND THE ARCHITECT.
6. ALL ROAD/UTILITY IMPROVEMENT WORK WHICH IS INTERRELATED WITH SIMILAR WORK ON ADJACENT PROPERTIES SHALL BE FULLY COORDINATED BETWEEN CONTRACTORS. VERIFY WITH CONSTRUCTION MANAGER.
7. FINAL POSITIONING OF ALL SITE FIRE UTILITIES SHALL BE SUBJECT TO THE APPROVAL OF THE APPROPRIATE FIRE AUTHORITIES. CONTRACTOR SHALL VERIFY.
8. IN CASE OF CONFLICT BETWEEN ARCHITECTURAL & CIVIL DRAWINGS, AS TO EXACT LOCATIONS/EXTENT OF CAST-IN-PLACE CONCRETE CURBS ONLY, VS CAST-IN-PLACE CURB/GUTTER, CIVIL DRAWINGS SHALL GOVERN.
9. IN CASE OF CONFLICT BETWEEN ARCHITECTURAL AND CIVIL DRAWINGS, AS TO ELEVATIONS OF FLOOR OR ENTRY LEVEL, CIVIL DRAWINGS SHALL GOVERN.
10. RE: CIVIL FOR ADDITIONAL SITE DETAILING AND SCOPE.

LEGEND

- HEAVY DUTY ASPHALT PAVING. RE: CIVIL DRAWINGS.
- HEAVY DUTY CONCRETE. RE: CIVIL DRAWINGS.
- GRAVEL ROAD. RE: CIVIL DRAWINGS.
- BUILDING FOOTPRINT
- 3"-DEPTH, 1" BLACK AND TAN ROCK MULCH RE: CIVIL DRAWINGS.
- FENCING, RE: 32 33 00 IN THE SPECIFICATIONS.
- C.I.P. CONCRETE CURB/GUTTER (COORDINATE WITH CIVIL DRAWINGS).
- FIRE HYDRANT
- PROPERTY LINE
- LIGHT POLE

CITY APPROVED PLANS
Reviewed for Code Compliance
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AR-984494
STATE OF IDAHO
CLINT SIEVERS

RICEfergusMILLER

Project:
TWIN FALLS TRAINING FACILITY
430 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

PERMIT SET - 02.29.2024

Project No:	19-029
Date:	02/29/2024
Checked By:	TB/RC
Drawn By:	AM/MH

Sheet Name:
COMPOSITE SITE PLAN

Sheet No:
A1.01

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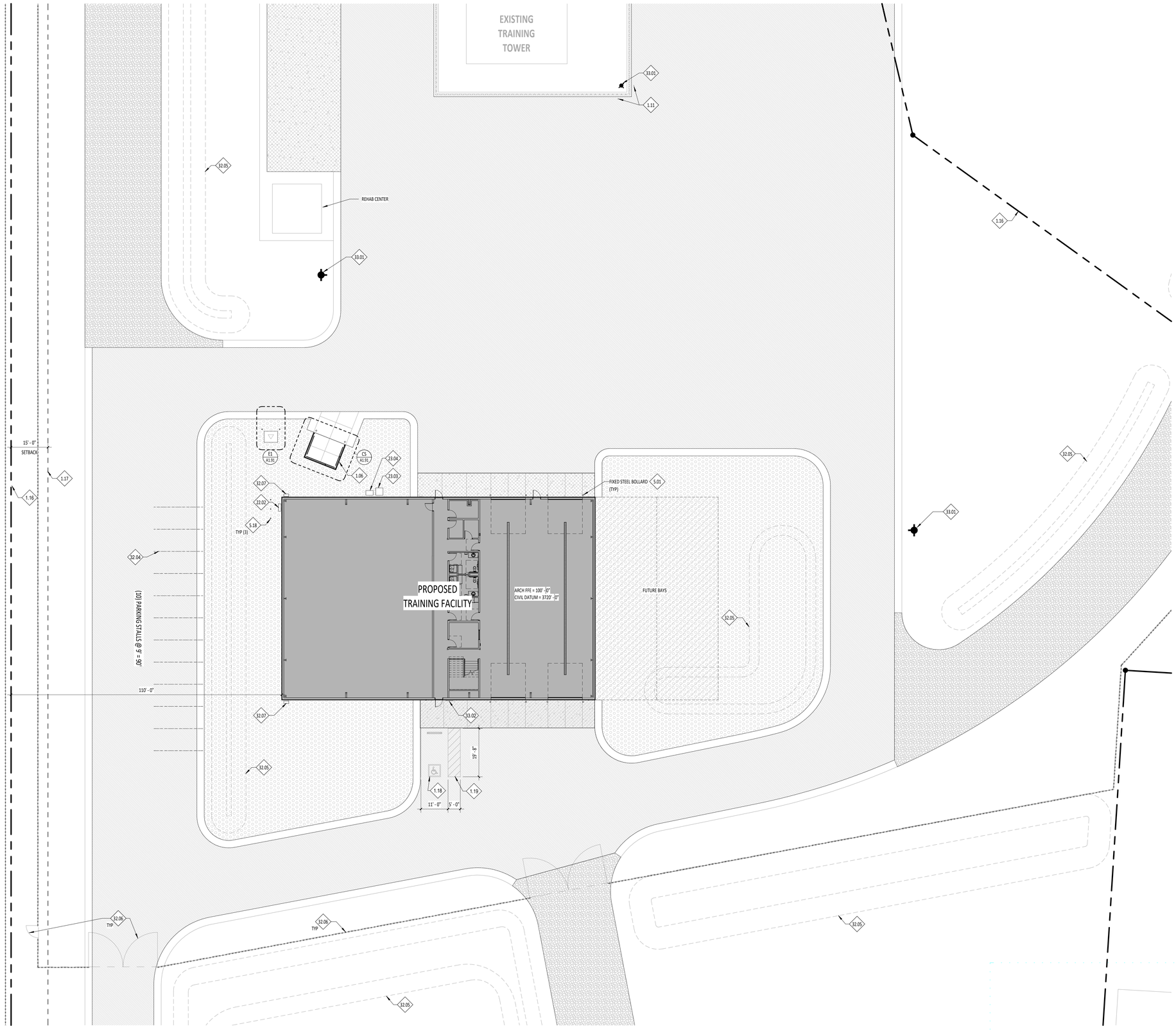

E1 A1.11 ENLARGED SITE PLAN
1/16" = 1'-0"

NOTES - REFERENCE NOTES

1.06 TRASH ENCLOSURE. COORDINATE WITH SHEET A1.91.
1.11 COORDINATE WITH CIVIL DRAWINGS FOR DRAINAGE CONNECTIONS AT GRADE.
1.16 PROPERTY LINE. RE: CIVIL DRAWINGS.
1.17 SETBACK LINE. RE: CIVIL DRAWINGS.
1.18 SIGNAGE PAINTED ON CONCRETE FLATWORK TO FACE STREET. COORDINATE WITH CIVIL DRAWINGS.
1.19 PAINTED STRIPING. COORDINATE WITH CIVIL DRAWINGS.
5.01 FACE OF BOLLARDS TO ALIGN WITH OVERHEAD DOOR JAMBS. PRIME AND PAINT P-3. RE: DETAIL E2/A1.91.
5.18 4" FIXED STEEL BOLLARD. RE: CIVIL DRAWINGS. PRIME AND PAINT P-3.
22.02 GAS METER. COORDINATE WITH PLUMBING DRAWINGS.
23.03 CONDENSING UNIT. COORDINATE WITH MECHANICAL DRAWINGS.
23.04 AIR CONDITIONING UNIT. COORDINATE WITH MECHANICAL DRAWINGS.
32.04 FUTURE PARKING STRIPING
32.05 RETENTION POND AREA - TYPICAL. RE: CIVIL DRAWINGS.
32.06 NEW FENCING AND GATES. RE: CIVIL DRAWINGS.
32.07 CONCRETE SPLASH BLOCK. COORDINATE WITH CIVIL DRAWINGS.
33.01 FIRE HYDRANT. COORDINATE WITH CIVIL DRAWINGS.
33.02 STATE APPROVED DISABLED PARKING SIGN AND VAN ACCESSIBLE SIGNAGE. REFLECTIVE ALUMINUM SHEET PLATE. APPLY SIGN TO BUILDING WITH SCREW FASTENER AND NEOPRENE WASHER. RE: CIVIL DRAWINGS.

GENERAL NOTES

1. SEE SHEET A1.01 SITE PLAN FOR COMPOSITE SITE PLAN AND REFERENCE NOTES, DIMENSIONS, ETC., NOT INDICATED ON THIS DRAWING.
2. ALL RADIUS AND LINEAR DIMENSIONS ARE TO FACE OF CURB, UNLESS INDICATED OTHERWISE.
3. COORDINATE WITH LANDSCAPE DRAWINGS FOR ALL LANDSCAPING.

LEGEND

- HEAVY DUTY ASPHALT PAVING. RE: CIVIL DRAWINGS.
- HEAVY DUTY CONCRETE. RE: CIVIL DRAWINGS.
- GRAVEL ROAD. RE: CIVIL DRAWINGS.
- BUILDING FOOTPRINT
- 3"-DEPTH, 1" BLACK AND TAN ROCK MULCH RE: CIVIL DRAWINGS.
- FENCING, RE: 32 33 00 IN THE SPECIFICATIONS.
- C.I.P. CONCRETE CURB/GUTTER (COORDINATE WITH CIVIL DRAWINGS).
- FIRE HYDRANT
- PROPERTY LINE
- LIGHT POLE

N

CITY APPROVED PLANS
Reviewed for Code Compliance
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Project: TWIN FALLS TRAINING FACILITY
430 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

1	CITY REVISIONS	02/27/2023

PERMIT SET - 02.29.2024

Project No:	19-029
Date:	02/29/2024
Checked By:	TB/RC
Drawn By:	AM/MH

Sheet Name:
ENLARGED SITE PLAN

Sheet No:
A1.11

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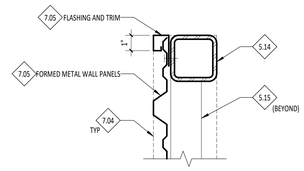
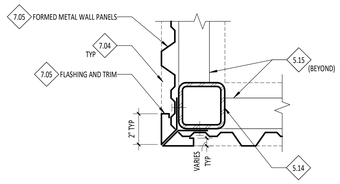
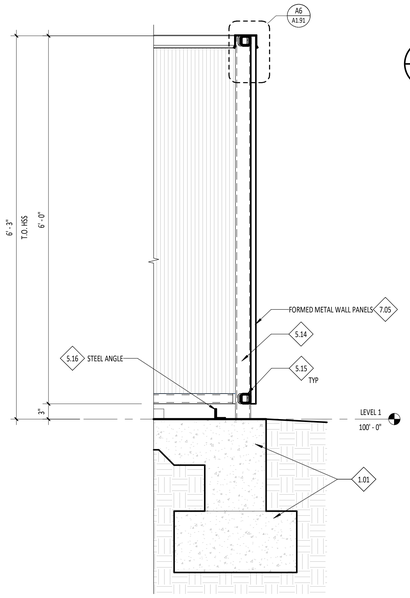


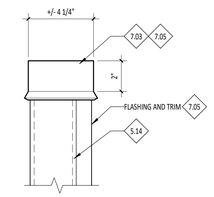
B2 A1.91 PLAN DETAIL @ METAL EDGE TRIM
3" = 1'-0"



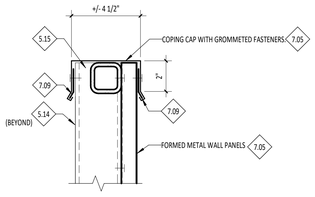
C2 A1.91 PLAN DETAIL @ METAL CORNER TRIM
3" = 1'-0"



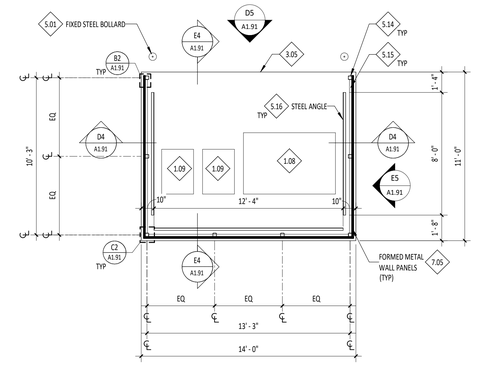
C4 A1.91 TRASH ENCLOSURE SECTION DETAIL
1" = 1'-0"



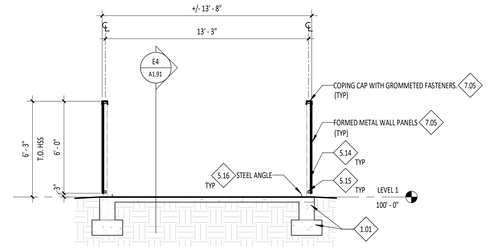
A5 A1.91 PARAPET END CAP DETAIL
3" = 1'-0"



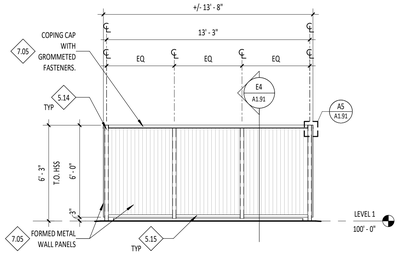
A6 A1.91 PARAPET SECTION DETAIL
3" = 1'-0"



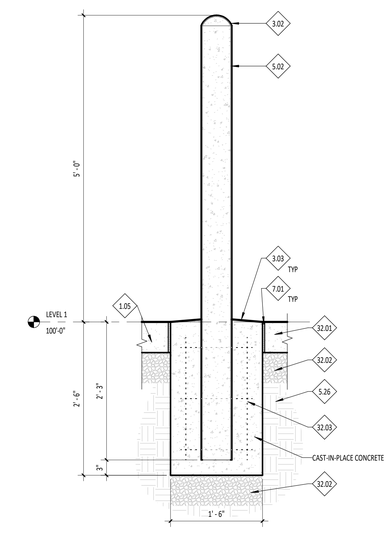
C5 A1.91 ENLARGED FLOOR PLAN - TRASH ENCLOSURE
1/4" = 1'-0"



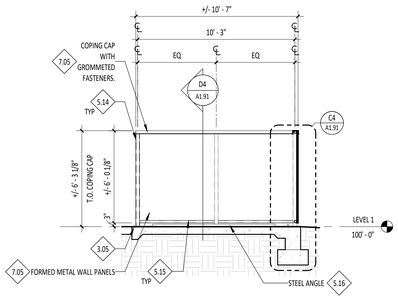
D4 A1.91 BUILDING SECTION - TRASH ENCLOSURE - NORTHEAST
1/4" = 1'-0"



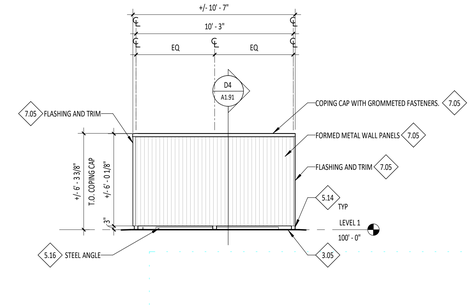
D5 A1.91 BUILDING ELEVATION - TRASH ENCLOSURE - SOUTHWEST
1/4" = 1'-0"



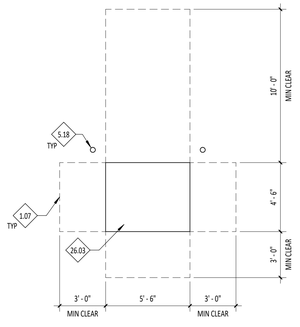
E2 A1.91 6" EXTERIOR STEEL BOLLARD DETAIL
1" = 1'-0"



E4 A1.91 BUILDING SECTION - TRASH ENCLOSURE - SOUTHEAST
1/4" = 1'-0"



E5 A1.91 BUILDING ELEVATION - TRASH ENCLOSURE - NORTHWEST
1/4" = 1'-0"



E1 A1.91 ENLARGED FLOOR PLAN - TRANSFORMER
1/4" = 1'-0"

NOTES - REFERENCE NOTES

1.01	COORDINATE WITH STRUCTURAL DRAWINGS.
1.05	COORDINATE WITH CIVIL AND LANDSCAPE DRAWINGS.
1.07	GENERATOR CLEARANCES. COORDINATE WITH ELECTRICAL DRAWINGS.
1.08	O.F.O.I. DUMPSTER
1.09	O.F.O.I RECYCLING BIN
3.02	FILL BOLLARD WITH CONCRETE, ROUND TOP.
3.03	CONCRETE FOOTING, SMOOTH FINISH, SLOPE TOP TO ENSURE POSITIVE DRAINAGE. COORDINATE WITH STRUCTURAL DRAWINGS.
3.05	SLOPE SLAB TO FRONT OF ENCLOSURE. COORDINATE WITH STRUCTURAL DRAWINGS.
5.01	FACE OF BOLLARDS TO ALIGN WITH OVERHEAD DOOR JAMBS. PRIME AND PAINT P-3. RE: DETAIL E2/A1.91.
5.02	6" DIAMETER SCHEDULE 40, STEEL PIPE SET IN CONCRETE FOOTING. PRIME AND PAINT P-3.
5.14	3X3 HSS COLUMN. PAINT P-3. RE: STRUCTURAL DRAWINGS.
5.15	2X2 HSS RAIL. PAINT P-3 RE: STRUCTURAL DRAWINGS.
5.16	2" X 2" STEEL ANGLE EPOXY BOLTED AND ANCHORED TO PAVING AT 24" O.C.
5.18	4" FIXED STEEL BOLLARD. RE: CIVIL DRAWINGS. PRIME AND PAINT P-3.
5.26	(3) #4 REBAR HOOPS WITH (3) VERTICAL REBAR FOR CONCRETE REINFORCEMENT.
7.01	SEALED ISOLATION JOINT
7.03	CREATE COPING END CAP WITH METAL FLASHING PER MANUFACTURERS RECOMMENDATIONS.
7.04	COPING CAP ABOVE.
7.05	PREFINISHED COLOR TO MATCH EXTERIOR METAL PANEL OF PRE-ENGINEERED METAL BUILDING. 24 GA. MINIMUM.
7.07	COPING CAP WITH GROMMETED FASTENERS.
7.09	CONTINUOUS CLEAT FASTENED AT COLUMNS. 24 GA. MINIMUM.
26.03	POWER TRANSFORMER. COORDINATE WITH ELECTRICAL DRAWINGS.
32.01	ASPHALT FLATWORK. RE: CIVIL DRAWINGS.
32.02	BASE COURSE. RE: CIVIL DRAWINGS.
32.03	COMPACTED SUBGRADE. RE: CIVIL DRAWINGS.

GENERAL NOTES

1. SEE SHEET A1.01 SITE PLAN FOR OVERALL SITE LAYOUT, REFERENCE NOTES, DIMENSIONS, ETC., NOT INDICATED ON THE DRAWING.
2. METAL WALL PANEL TO MATCH PROFILE, GUAGE, AND COLOR OF CHOSEN EXTERIOR METAL WALL PANEL ON PRE-ENGINEERED METAL BUILDING. COORDINATE WITH CONTRACTOR.
3. PAINT ALL EXPOSED STEEL HSS TRASH ECLOSURE FRAME P-3. RE: FINISH SCHEDULE.

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RICEfergusMILLER

Project: TWIN FALLS TRAINING FACILITY
430 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

PERMIT SET - 02.29.2024

Project No:	19-029
Date:	02/29/2024
Checked By:	TB
Drawn By:	AM/MH

Sheet Name:
SITE DETAILS

Sheet No:
A1.91

CITY APPROVED PLANS
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PLANS MUST BE ON JOB SITE
FOR ALL INSPECTIONS

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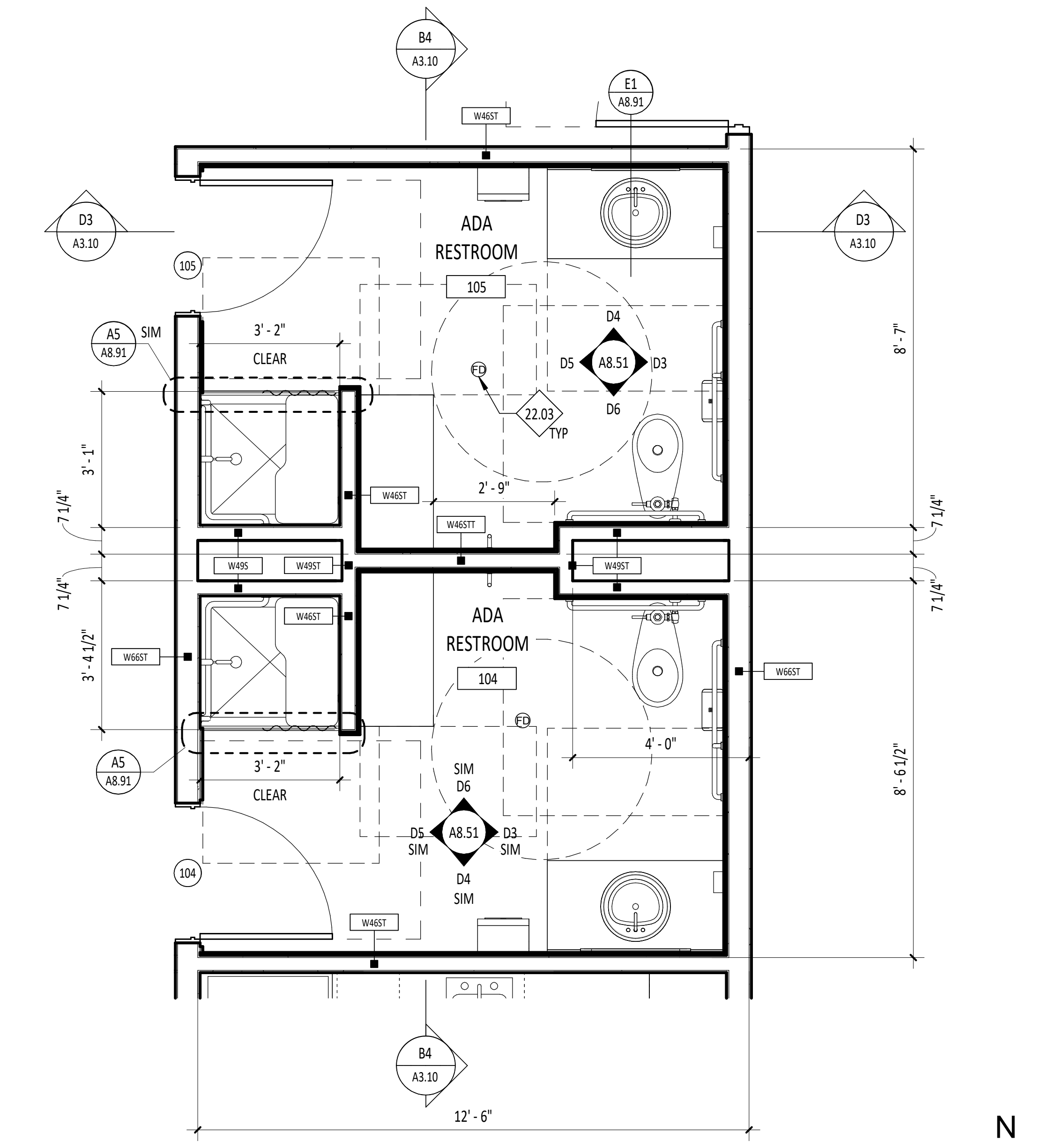
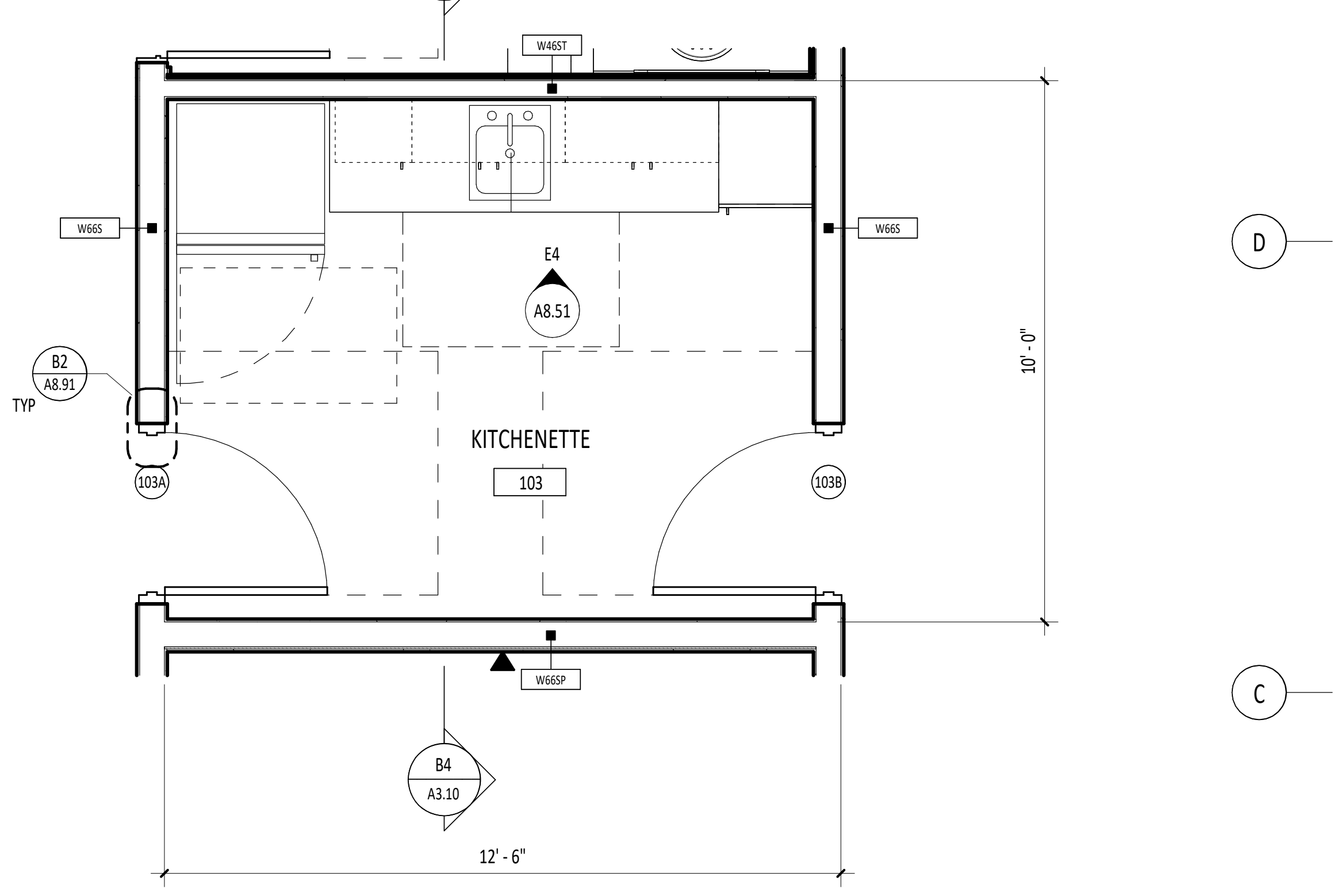
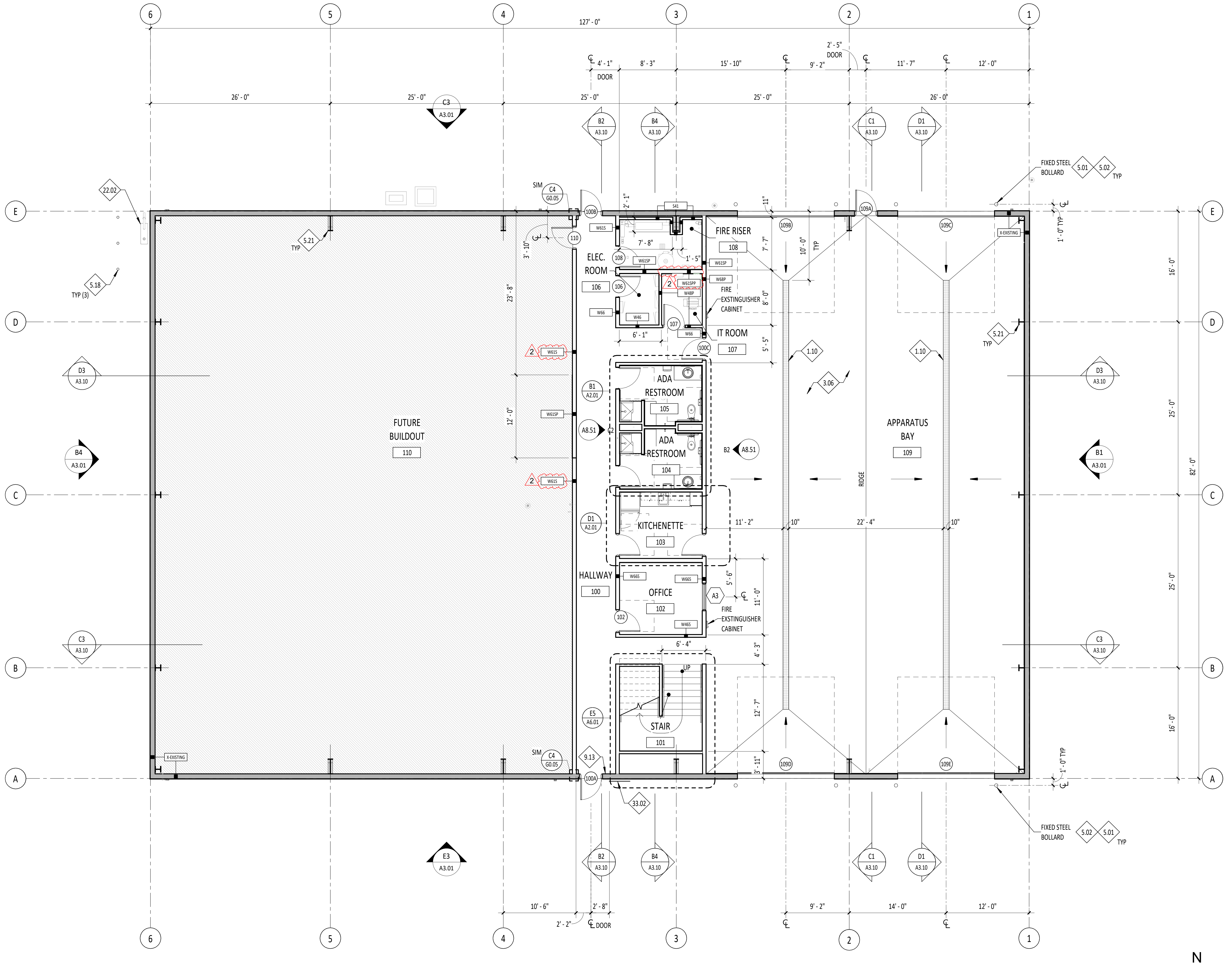


B1 ENLARGED PLAN - RR/SHOWER 106 & 107
A2.01 3/8" = 1'-0"



D1 ENLARGED PLAN - KITCHENETTE 104
A2.01 3/8" = 1'-0"



E2 COMPOSITE FLOOR PLAN - LEVEL 1
A2.01 1/8" = 1'-0"

NOTES - REFERENCE NOTES

1.10	COORDINATE WITH PLUMBING DRAWINGS.
3.06	SLOPE TO DRAIN. APPARATUS BAY SLOPE TO BE 1/8" MIN. TO 1/4" MAX. TO TRENCH DRAINS.
5.01	FACE OF BOLLARDS TO ALIGN WITH OVERHEAD DOOR JAMBS. PRIME AND PAINT P-3. RE: DETAIL E2/A1.91.
5.02	6" DIAMETER SCHEDULE 40, STEEL PIPE SET IN CONCRETE FOOTING. PRIME AND PAINT P-3.
5.18	4" FIXED STEEL BOLLARD. RE: CIVIL DRAWINGS. PRIME AND PAINT P-3.
5.21	PREFABRICATED METAL BUILDING STEEL STRUCTURE TO BE PROVIDED BY OTHERS. COORDINATE WITH ARCHITECT IF ANY CHANGES OCCUR.
9.13	PROVIDE 5/8" GYPSUM WALL BOARD TO 6" ABOVE CEILING AT X-EXTERIOR WALL TYPE IN HALLWAY 100.
22.02	GAS METER. COORDINATE WITH PLUMBING DRAWINGS.
22.03	FLOOR DRAIN. RE: PLUMBING DRAWINGS.
33.02	STATE APPROVED DISABLED PARKING SIGN AND VAN ACCESSIBLE SIGNAGE. REFLECTIVE ALUMINUM SHEET PLATE. APPLY SIGN TO BUILDING WITH SCREW FASTENER AND NEOPRENE WASHER. RE: CIVIL DRAWINGS.

GENERAL NOTES - FLOOR PLANS

1. UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO THE FACE OF STUDS FOR GWB WALLS / PARTITIONS.
2. UNLESS NOTED OTHERWISE ALL GWB WALLS SHALL HAVE A 4" STUD FRAME RETURN AT ALL DOOR AND WINDOW JAMBS.
3. FOR SIZES OR MARKERBOARDS AND TACK BOARDS RE: SPECIFICATION SECTION DIVISION 10 - VISUAL DISPLAY SURFACES.
4. RE: SHEET G2.01b FOR BUILDING OCCUPANCY PLANS AND FIRE RESISTIVE CONSTRUCTION REQUIREMENTS.
5. SEE ENLARGED PLANS FOR ADDITIONAL WALL TYPES.
6. FOR WALLS NOT DESIGNATED WITH A WALL TYPE, COORDINATE WITH STRUCTURAL DRAWINGS & WALL SECTIONS.
7. COORDINATE NOTES WITH G0.02 FOR MASTER KEYNOTE LIST.
8. APPARATUS BAY SLAB SLOPE TO BE 1/8" MIN. TO 1/4" MAX. TO TRENCH DRAINS.

LEGEND

(XXXX)	DOOR SYMBOL, RE: SHEET A7.01
■─ XXXXXXX	WALL TYPE, RE: SHEET G0.04
⬡ XXX	WINDOW TYPE, RE: SHEET A7.11
▭	FIRE EXTINGUISHER CABINET. RE: DIVISION 10 - SPECIALTIES 10 AND SHEET G2.01b.
(FD)	FLOOR DRAIN. RE: PLUMBING DRAWINGS.
▨	FUTURE BUILDOUT (PHASE II - TI)
■	PRE-ENGINEERED RIGID FRAME STRUCTURE PROVIDED BY OTHERS (CUT POCHE)
□	PRE-ENGINEERED RIGID FRAME STRUCTURE PROVIDED BY OTHERS (SURFACE)

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AR-98494
CLINT SIEVERS

RICEfergusMILLER

Project:
TWIN FALLS TRAINING FACILITY
430 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

2	CITY REVISIONS	02/26/2024

PERMIT SET - 02.29.2024

Project No:	19-029
Date:	02/29/2024
Checked By:	TB/RC
Drawn By:	TB/AM/MH

Sheet Name:

COMPOSITE FLOOR PLAN - LEVEL 1 & ENLARGED PLANS

Sheet No:

A2.01

CITY APPROVED PLANS
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PLANS MUST BE ON JOB SITE
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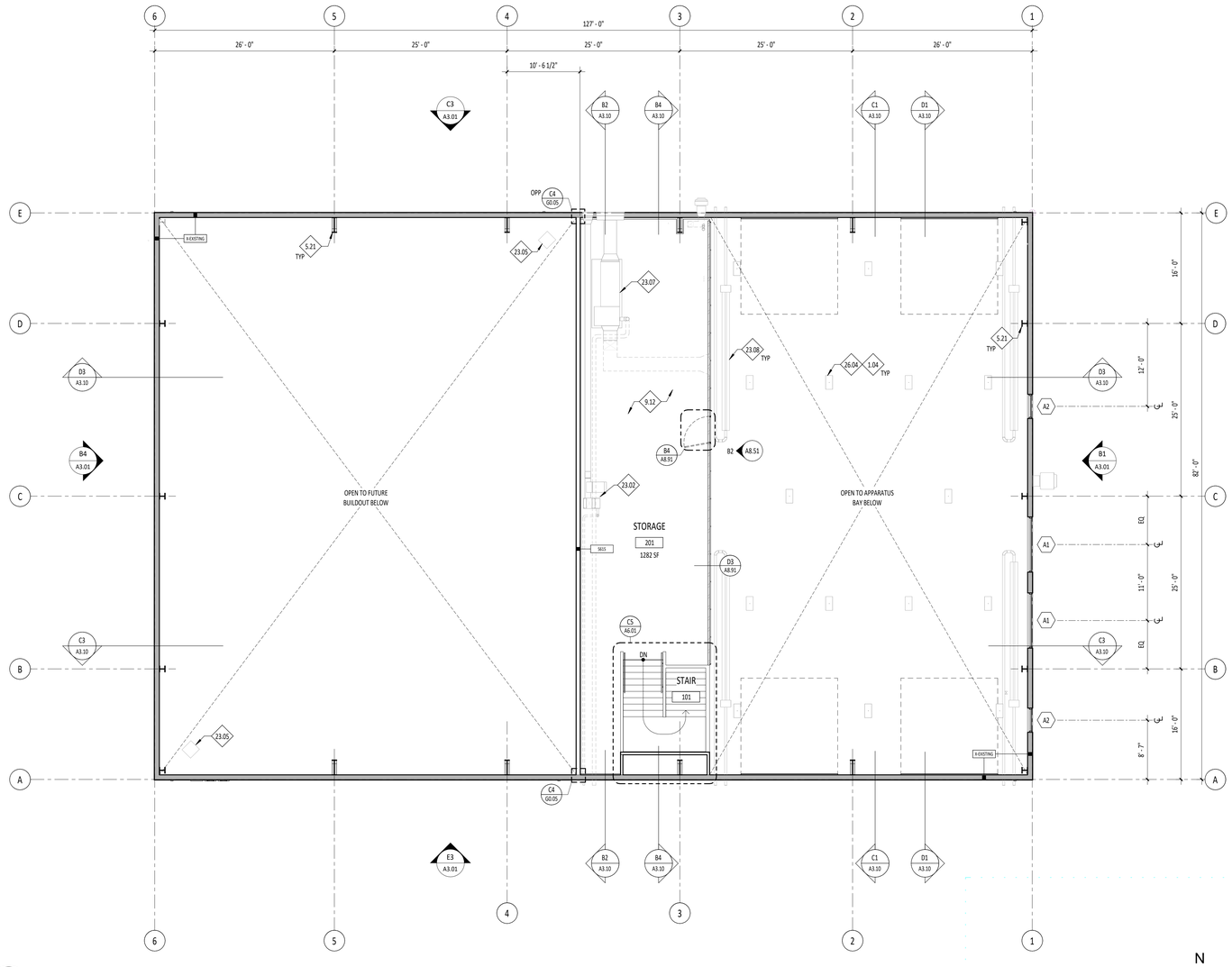

E2 A2.02 COMPOSITE FLOOR PLAN - LEVEL 2
1/8" = 1'-0"

NOTES - REFERENCE NOTES

1.04	COORDINATE WITH REFLECTED CEILING PLAN.
5.21	PREFABRICATED METAL BUILDING STEEL STRUCTURE TO BE PROVIDED BY OTHERS. COORDINATE WITH ARCHITECT IF ANY CHANGES OCCUR.
9.12	SLIP RESISTANCE FLOORING.
23.02	MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL DRAWINGS.
23.05	ELECTRIC UNIT HEATER. MOUNT AT MIN. 9' HEIGHT. RE: MECHANICAL DRAWINGS.
23.07	MAKE UP AIR UNIT. RE: MECHANICAL DRAWINGS.
23.08	GAS FIRED RADIANT HEATER. RE: MECHANICAL DRAWINGS.
26.04	LIGHT FIXTURE. COORDINATE WITH ELECTRICAL DRAWINGS.

GENERAL NOTES - FLOOR PLANS

1. UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO THE FACE OF STUDS FOR GWB WALLS / PARTITIONS.
2. UNLESS NOTED OTHERWISE ALL GWB WALLS SHALL HAVE A 4" STUD FRAME RETURN AT ALL DOOR AND WINDOW JAMBS.
3. FOR SIZES OR MARKERBOARDS AND TACK BOARDS RE: SPECIFICATION SECTION DIVISION 10 - VISUAL DISPLAY SURFACES.
4. RE: SHEET G2.01b FOR BUILDING OCCUPANCY PLANS AND FIRE RESISTIVE CONSTRUCTION REQUIREMENTS.
5. SEE ENLARGED PLANS FOR ADDITIONAL WALL TYPES.
6. FOR WALLS NOT DESIGNATED WITH A WALL TYPE, COORDINATE WITH STRUCTURAL DRAWINGS & WALL SECTIONS.
7. COORDINATE NOTES WITH G0.02 FOR MASTER KEYNOTE LIST.
8. APPARATUS BAY SLAB SLOPE TO BE 1/8" MIN. TO 1/4" MAX. TO TRENCH DRAINS.

LEGEND

- XXXX — DOOR SYMBOL, RE: SHEET A7.01
- XXXXXX — WALL TYPE, RE: SHEET G0.04
- XXX — WINDOW TYPE, RE: SHEET A7.11
- FIRE EXTINGUISHER CABINET. RE: DIVISION 10 - SPECIALTIES 10 AND SHEET G2.01b.
- FD — FLOOR DRAIN. RE: PLUMBING DRAWINGS.
- FUTURE BUILDOUT (PHASE II - TI)
- PRE-ENGINEERED RIGID FRAME STRUCTURE PROVIDED BY OTHERS (CUT POCHE)
- PRE-ENGINEERED RIGID FRAME STRUCTURE PROVIDED BY OTHERS (SURFACE)

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LICENSED PROFESSIONAL ARCHITECT — AR-98494 — STATE OF IDAHO — CLINT SIEVERS

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Project: TWIN FALLS TRAINING FACILITY
430 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

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Drawn By:	TB/AM/MH

Sheet Name:
COMPOSITE FLOOR PLAN - LEVEL 2

Sheet No:
A2.02

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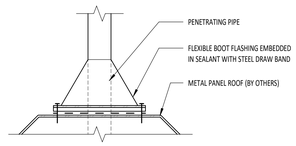
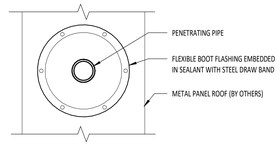
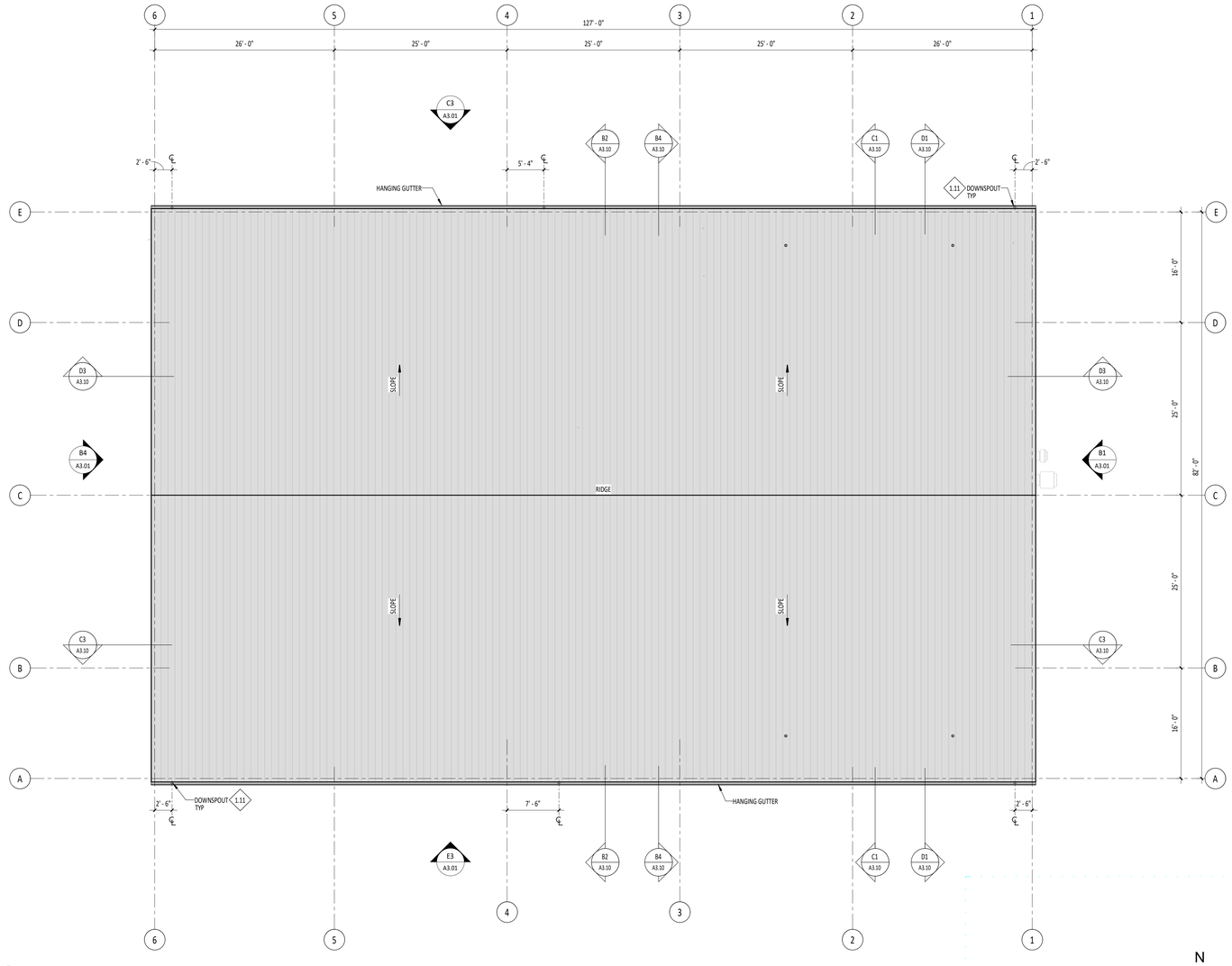




B6 / A2.31 FLEXIBLE BOOT FLASHING DETAIL
3" = 1'-0"



E2 / A2.31 COMPOSITE ROOF PLAN
1/8" = 1'-0"

N

NOTES - REFERENCE NOTES

1.11 COORDINATE WITH CIVIL DRAWINGS FOR DRAINAGE CONNECTIONS AT GRADE.

GENERAL NOTES

1. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION AND NUMBER OF OTHER ROOF PENETRATIONS (I.E., VENT STACKS, VENT PIPES, CONDUIT PENETRATIONS, ETC.). FLASH ALL PENETRATIONS WEATHER TIGHT. COORDINATE WITH ROOF DETAILS.
2. ALL METAL ROOF FLASHING DETAILS SHALL BE PER MANUFACTURER'S. RECOMMENDATIONS AND REVIEWED BY THE ARCHITECT FOR DESIGN INTENT.
3. EXTERIOR SHELL AND ROOF SHOWN IN DRAWINGS ARE FOR REFERENCE ONLY. PREFABRICATED BUILDING TO BE PROVIDED BY OTHERS. COORDINATE WITH ARCHITECT IF ANY CHANGES OCCUR.

LEGEND

HATCH PATTERN INDICATES AREAS OF STANDING SEAM METAL ROOF PANELS PER MANUFACTUER. PROVIDED BY OTHERS.

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LICENSED PROFESSIONAL ARCHITECT AR-984494 STATE OF IDAHO CLINT SIEVERS

RICEfergusMILLER

Project: TWIN FALLS TRAINING FACILITY
430 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

Project No: 19-029
Date: 02/29/2024
Checked By: TB/RC
Drawn By: AM

Sheet Name:
COMPOSITE ROOF PLAN & ROOF DETAILS

PERMIT SET - 02.29.2024

Sheet No:
A2.31

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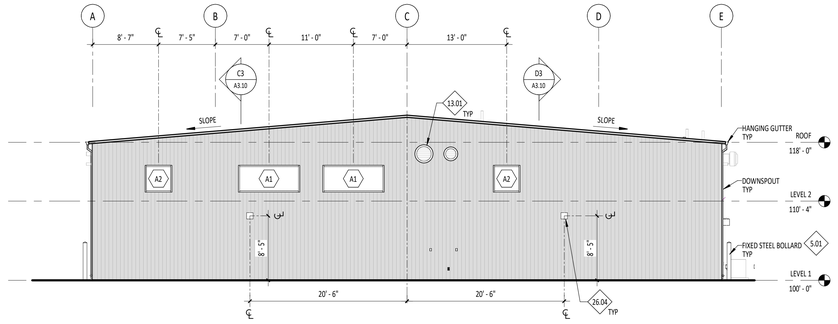
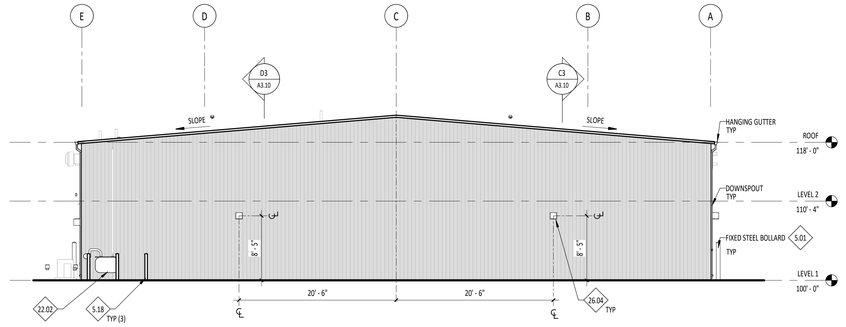


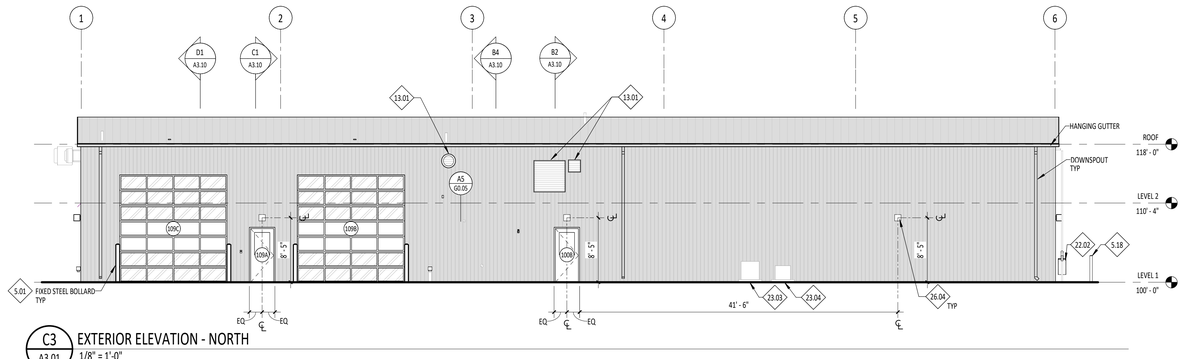
B1 A3.01 EXTERIOR ELEVATION - EAST

1/8" = 1'-0"



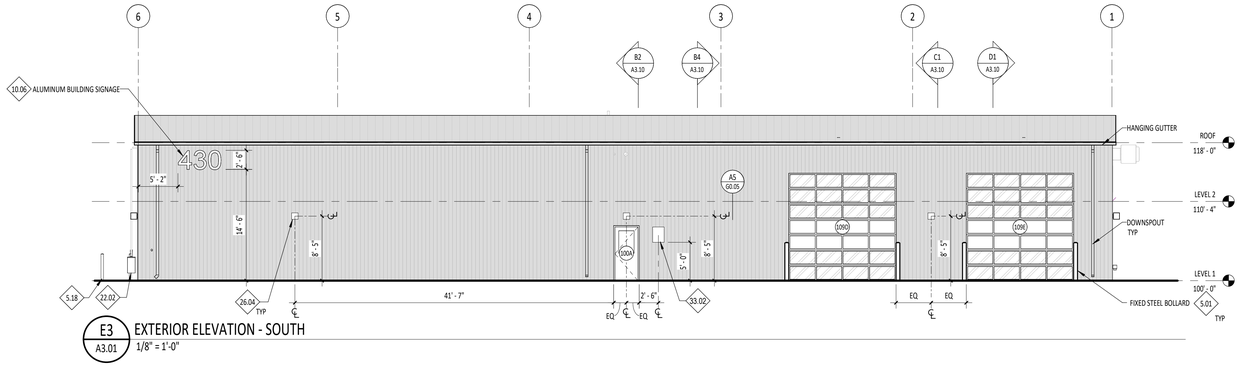
B4 A3.01 EXTERIOR ELEVATION - WEST

1/8" = 1'-0"



C3 A3.01 EXTERIOR ELEVATION - NORTH

1/8" = 1'-0"



E3 A3.01 EXTERIOR ELEVATION - SOUTH

1/8" = 1'-0"

NOTES - REFERENCE NOTES

5.01	FACE OF BOLLARDS TO ALIGN WITH OVERHEAD DOOR JAMBS. PRIME AND PAINT P-3. RE: DETAIL E2/A1.91.
5.18	4" FIXED STEEL BOLLARD. RE: CIVIL DRAWINGS. PRIME AND PAINT P-3.
10.06	LASER CUT ALUMINUM ADDRESS LETTERS WITH A POWDER COAT FINISH TO BE MOUNTED ON 18GA. PRE-FINISHED BACKING PLATE TO MATCH METAL PANEL. FONT TBD BY OWNER.
13.01	COORDINATE WITH PRE-ENGINEERED METAL BUILDING MANUFACTURER TO PROVIDE FRAMINGAND TRIM FLASHING FOR ALL ROUGH OPENINGS.
22.02	GAS METER. COORDINATE WITH PLUMBING DRAWINGS.
23.03	CONDENSING UNIT. COORDINATE WITH MECHANICAL DRAWINGS.
23.04	AIR CONDITIONING UNIT. COORDINATE WITH MECHANICAL DRAWINGS.
26.04	LIGHT FIXTURE. COORDINATE WITH ELECTRICAL DRAWINGS.
33.02	STATE APPROVED DISABLED PARKING SIGN AND VAN ACCESSIBLE SIGNAGE. REFLECTIVE ALUMINUM SHEET PLATE. APPLY SIGN TO BUILDING WITH SCREW FASTENER AND NEOPRENE WASHER. RE: CIVIL DRAWINGS.

GENERAL NOTES

1. RE: FLOOR PLANS FOR EXTERIOR DOOR AND WINDOW TYPES.
2. EXTERIOR SHELL AND ROOF SHOWN IN DRAWINGS ARE FOR REFERENCE ONLY. PREFABRICATED BUILDING TO BE PROVIDED BY OTHERS. COORDINATE WITH ARCHITECT IF ANY CHANGES OCCUR.
3. PROVIDE AND INSTALL TRIM AND WEATHER-TIGHT CONDITION AT ALL MECHANICAL LOUVERS AND PIPE PENETRATIONS

LEGEND

- HATCH PATTERN INDICATES AREAS OF METAL PANEL PER MANUFACTURER. PROVIDED BY OTHERS.
- HATCH PATTERN INDICATES AREAS OF STANDING SEAM METAL ROOF PANELS PER MANUFACTUER. PROVIDED BY OTHERS.
- HATCH IN FRAME UNITS INDICATES AREAS OF FULLY-TEMPERED FLOAT GLASS. RE: DIVISION 088000 IN THE SPECIFICATIONS.
- NO HATCH AREA IN FRAME UNITS INDICATES AREAS OF FLOAT GLASS. RE: DIVISION 088000 IN THE SPECIFICATIONS.
- HATCH IN FRAME UNITS INDICATES AREAS OF METAL PANEL PROVIDED BY DOOR MANUFACTURER.

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Project: TWIN FALLS TRAINING FACILITY
430 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

PERMIT SET - 02.29.2024

Project No:	19-029
Date:	02/29/2024
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Sheet Name:
BUILDING ELEVATIONS

Sheet No:
A3.01

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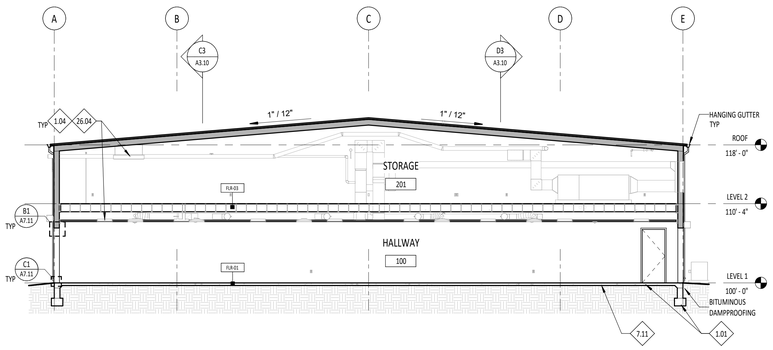
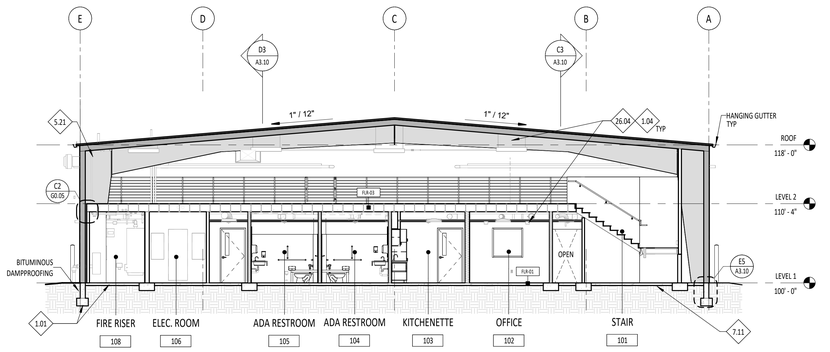
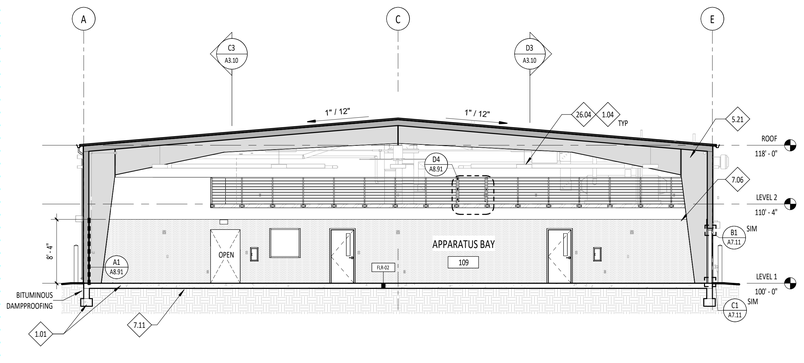


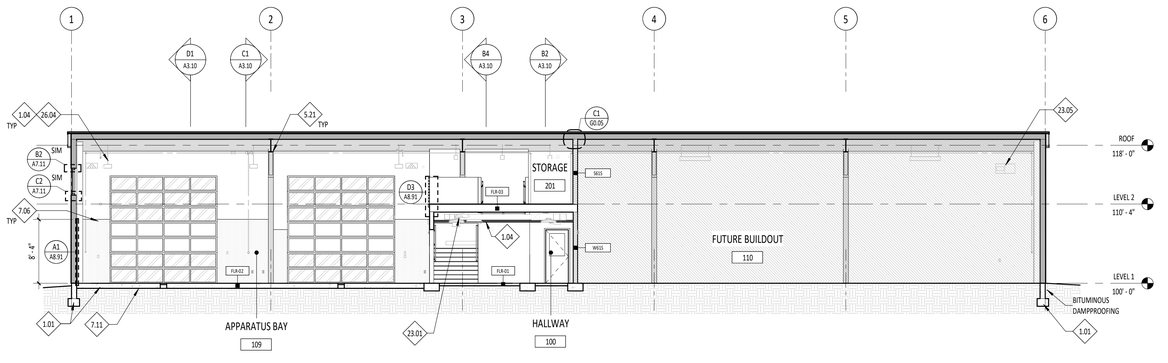
B2 A3.10 BUILDING SECTION (GRID 4)
1/8" = 1'-0"



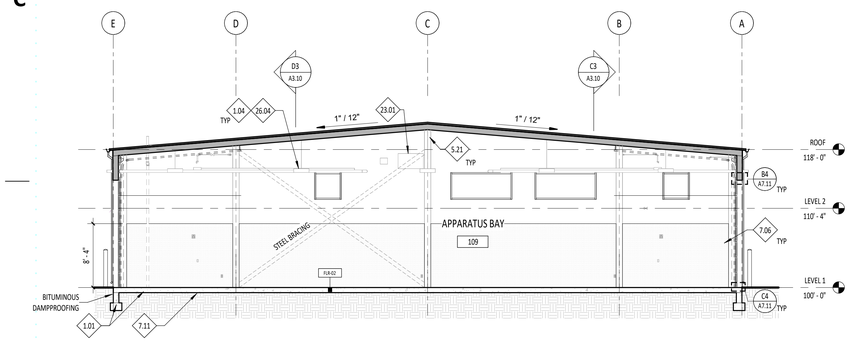
B4 A3.10 BUILDING SECTION (GRID 3)
1/8" = 1'-0"



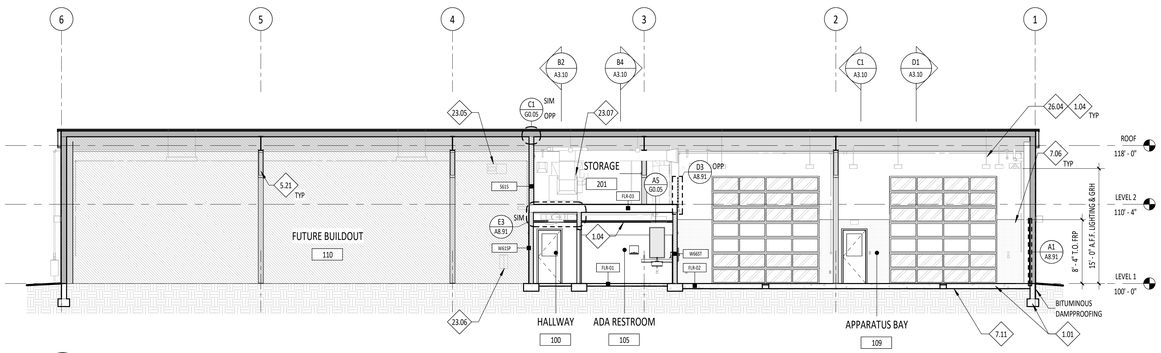
C1 A3.10 BUILDING SECTION (GRID 2)
1/8" = 1'-0"



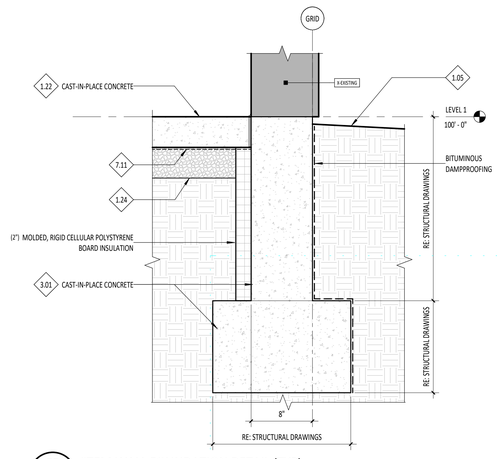
C3 A3.10 BUILDING SECTION (GRID B)
1/8" = 1'-0"



D1 A3.10 BUILDING SECTION (GRID 1)
1/8" = 1'-0"



D3 A3.10 BUILDING SECTION (GRID D)
1/8" = 1'-0"



E5 A3.10 STEM WALL FOUNDATION DETAIL (TYP)
1 1/2" = 1'-0"

NOTES - REFERENCE NOTES

1.01	COORDINATE WITH STRUCTURAL DRAWINGS.
1.04	COORDINATE WITH REFLECTED CEILING PLAN.
1.05	COORDINATE WITH CIVIL AND LANDSCAPE DRAWINGS.
1.22	RE: FLOOR PLANS, BUILDING SECTIONS AND STRUCTURAL DRAWINGS FOR FLOOR TYPES.
1.24	4" GRAVEL CAPILLARY LAYER. COORDINATE WITH CIVIL DRAWINGS.
3.01	CONCRETE STEM WALL AND FOOTING. COORDINATE WITH STRUCTURAL DRAWINGS.
5.21	PREFABRICATED METAL BUILDING STEEL STRUCTURE TO BE PROVIDED BY OTHERS. COORDINATE WITH ARCHITECT IF ANY CHANGES OCCUR.
7.06	FIBER REINFORCED PANELING WITH PLYWOOD BACKING PROVIDED BY CONTRACTOR.
7.11	15 MIL VAPOR BARRIER.
23.01	COOORDINATE WITH MECHANICAL DRAWINGS.
23.05	ELECTRIC UNIT HEATER. MOUNT AT MIN. 9' HEIGHT. RE: MECHANICAL DRAWINGS.
23.06	DUCTLESS SPLIT SYSTEM INDOOR UNIT. RE: MECHANICAL DRAWINGS.
23.07	MAKE UP AIR UNIT. RE: MECHANICAL DRAWINGS.
26.04	LIGHT FIXTURE. COORDINATE WITH ELECTRICAL DRAWINGS.

GENERAL NOTES

1. FOR REINFORCING OF CONCRETE SLABS, FOOTINGS AND FOUNDATIONS, COORDINATE WITH STRUCTURAL DRAWINGS.
2. FOR WINDOW TYPES, COORDINATE WITH FLOOR PLANS.
3. RE: FLOOR PLANS FOR WALL TYPES.
4. PROVIDE BITUMINOUS DAMPPROOFING ON ALL EXTERIOR FOUNDATION WALLS AS PER SPECIFICATION SECTION 07115. PROVIDE BELOW GRADE ONLY.

LEGEND

- FUTURE BUILDOUT (PHASE II - TI)
- PRE-ENGINEERED RIGID FRAME STRUCTURE PROVIDED BY OTHERS (CUT POCHE)
- PRE-ENGINEERED RIGID FRAME STRUCTURE PROVIDED BY OTHERS (SURFACE)

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LICENSED PROFESSIONAL ARCHITECTS — AR-984494 — STATE OF IDAHO — CLINT SIEVERS

RICEfergusMILLER

Project: TWIN FALLS TRAINING FACILITY
430 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

PERMIT SET - 02.29.2024

Project No:	19-029
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Drawn By:	TB/AM

Sheet Name:
BUILDING SECTIONS & EXTERIOR DETAILS

Sheet No:
A3.10

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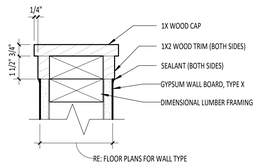
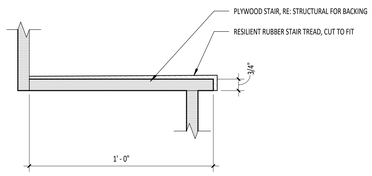
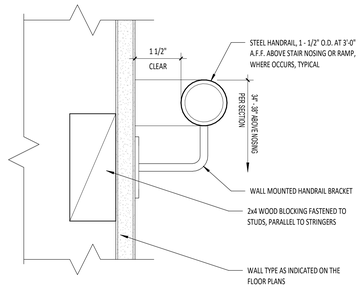


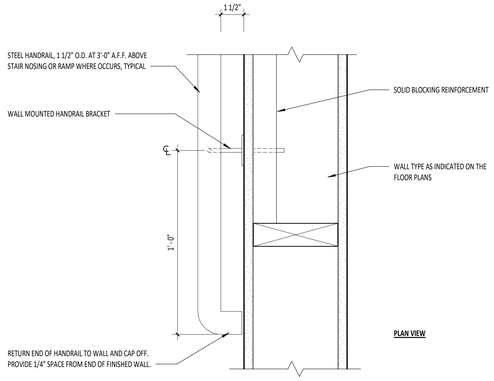
B1 A6.01 WOOD CAP DETAIL
3" = 1'-0"



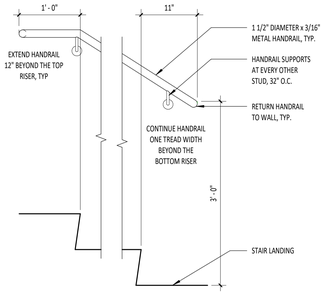
B2 A6.01 RUBBER STAIR TREAD DETAIL
3" = 1'-0"



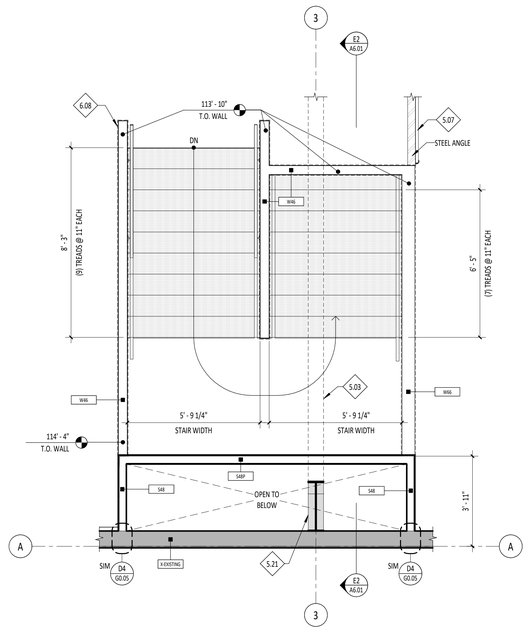
B3 A6.01 MTL HANDRAIL STD BRACKET
6" = 1'-0"



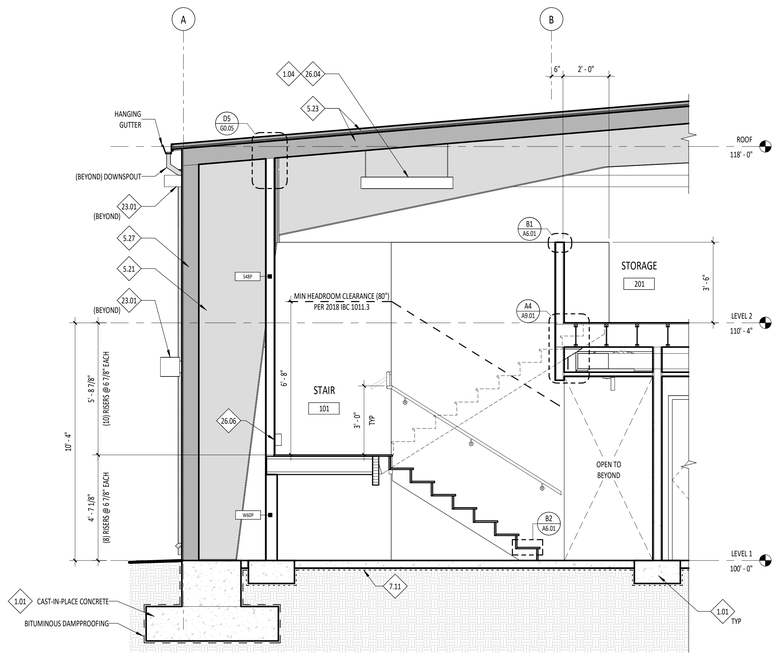
C2 A6.01 TYPICAL HANDRAIL MOUNTING DETAIL
3" = 1'-0"



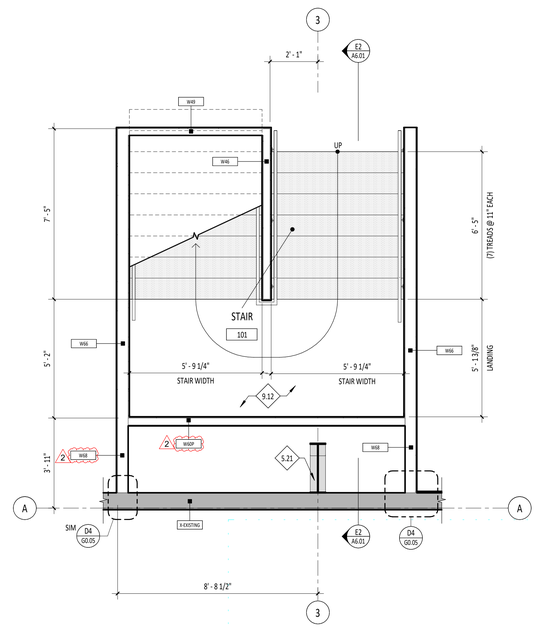
C3 A6.01 TYP HANDRAIL EXTENSIONS
1" = 1'-0"



C5 A6.01 ENLARGED STAIR PLAN - LEVEL 2
3/8" = 1'-0"



E2 A6.01 STAIR SECTION (EAST/WEST)
3/8" = 1'-0"



E5 A6.01 ENLARGED STAIR PLAN - LEVEL 1
3/8" = 1'-0"

NOTES - REFERENCE NOTES

1.01	COORDINATE WITH STRUCTURAL DRAWINGS.
1.04	COORDINATE WITH REFLECTED CEILING PLAN.
5.03	LINE OF PRE-ENGINEERED RIGID FRAME STRUCTURE ABOVE. RE: BUILDING AND STAIR SECTIONS.
5.07	1 1/2" DIAMETER STEEL RAIL WELDEED TO STEEL POST.
5.21	PREFABRICATED METAL BUILDING STEEL STRUCTURE TO BE PROVIDED BY OTHERS. COORDINATE WITH ARCHITECT IF ANY CHANGES OCCUR.
5.23	PREMANUFACTURED METAL BUILDING ROOF ASSEMBLY TO BE PROVIDED BY OTHERS. COORDINATE WITH ARCHITECT IF ANY CHANGES OCCUR.
5.27	PREMANUFACTURED METAL BUILDING WALL ASSEMBLY AND INSULATION TO BE PROVIDED BY OTHERS. COORDINATE WITH ARCHITECT IF ANY CHANGES OCCUR.
6.08	DASHED LINE INDICATES AREAS OF WOOD CAP. RE: DETAIL B1/A6.01
7.11	15 MIL VAPOR BARRIER.
9.12	SLIP RESISTANCE FLOORING.
23.01	COOORDINATE WITH MECHANICAL DRAWINGS.
26.04	LIGHT FIXTURE. COORDINATE WITH ELECTRICAL DRAWINGS.
26.06	ELECTRIC BASEBOARD RADIANT HEATER. RE: ELECTRICAL DRAWINGS.

GENERAL NOTES

1. FOR REINFORCING OF CONCRETE SLABS, FLOORINGS AND FOUNDATIONS COORDINATE WITH STRUCTURAL DRAWINGS.
2. FOR STAIR STRUCTURE COORDINATE WITH STRUCTURAL DRAWINGS.
3. FOR WINDOW TYPES, RE: FLOOR PLANS.
4. PROVIDE BITUMINOUS DAMPPROOFING ON ALL EXTERIOR FOUNDATION WALLS AS PER SPECIFICATION SECTION 07115. PROVIDE BELOW GRADE ONLY.
5. PAINT ALL GUARD AND HANDRAIL SYSTEMS PAINT COLOR P-3, UNLESS OTHERWISE NOTED. RE: DIVISION 9 SECTION "INTERIOR PAINTING".
6. RE: SHEET A8.00 FOR ROOM FINISH SCHEDULE.

LEGEND

- PRE-ENGINEERED RIGID FRAME STRUCTURE PROVIDED BY OTHERS (CUT POCHE)
- PRE-ENGINEERED RIGID FRAME STRUCTURE PROVIDED BY OTHERS (SURFACE)
- RESILIANT RUBBER STAIR COVERING, RE: FINISH SCHEDULE.

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LICENSED PROFESSIONAL ARCHITECT AR-984494 CLINT SIEVERS STATE OF IDAHO

RICEfergusMILLER

Project: TWIN FALLS TRAINING FACILITY
430 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

1	CITY REVISIONS	02/27/2023
2	CITY REVISIONS	02/26/2024

PERMIT SET - 02.29.2024

Project No:	19-029
Date:	02/29/2024
Checked By:	TB/RC
Drawn By:	TB/AM

Sheet Name:
STAIR PLAN, SECTIONS AND DETAILS

Sheet No:
A6.01

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE FOR ALL INSPECTIONS

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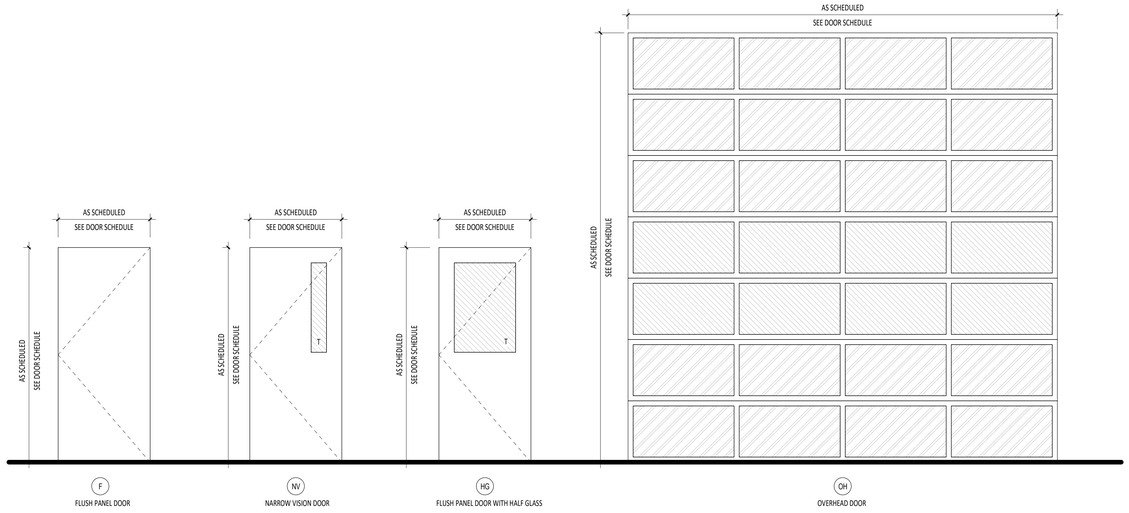
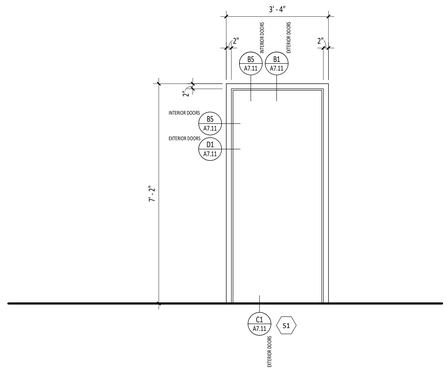
SCHEDULE - DOOR

DOOR #	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DOOR HARDWARE	Fire Rating	REMARKS
100A	HG	3' - 0"	7' - 0"	HM	P-3	S1	HM	P-3	GROUP 02		
100B	HG	3' - 0"	7' - 0"	HM	P-3	S1	HM	P-3	GROUP 02		
100C	NV	3' - 0"	7' - 0"	WD	FF	S1	HM	P-3	GROUP 05		
102	NV	3' - 0"	7' - 0"	WD	FF	S1	HM	P-3	GROUP 06		
103A	NV	3' - 0"	7' - 0"	WD	FF	S1	HM	P-3	GROUP 04		
103B	NV	3' - 0"	7' - 0"	WD	FF	S1	HM	P-3	GROUP 04		
104	F	3' - 0"	7' - 0"	WD	FF	S1	HM	P-3	GROUP 03		
105	F	3' - 0"	7' - 0"	WD	FF	S1	HM	P-3	GROUP 03		
106	F	3' - 0"	7' - 0"	WD	FF	S1	HM	P-3	GROUP 09		
107	F	3' - 0"	7' - 0"	WD	FF	S1	HM	P-3	GROUP 07		
108	F	3' - 0"	7' - 0"	WD	FF	S1	HM	P-3	GROUP 08	45 MIN	MINIMUM 45 MINUTE RATING TO FIRE RISER ROOM
109A	HG	3' - 0"	7' - 0"	HM	FF	S1	HM	P-3	GROUP 02		
109B	OH	14' - 0"	14' - 0"	PER MANUFACTURER	FF	PER MANUFACTURER	PER MANUFACTURER	P-3	GROUP 01		
109C	OH	14' - 0"	14' - 0"	PER MANUFACTURER	FF	PER MANUFACTURER	PER MANUFACTURER	P-3	GROUP 01		
109D	OH	14' - 0"	14' - 0"	PER MANUFACTURER	FF	PER MANUFACTURER	PER MANUFACTURER	P-3	GROUP 01		
109E	OH	14' - 0"	14' - 0"	PER MANUFACTURER	FF	PER MANUFACTURER	PER MANUFACTURER	P-3	GROUP 01		
110	F	3' - 0"	7' - 0"	HM	P-3	S1	HM	P-3	GROUP 08	45 MIN	MINIMUM 45 MINUTE RATING TO FUTURE BUILDOUT



DOOR TYPES

1/2" = 1'-0"



STEEL FRAME TYPES

1/2" = 1'-0"

GENERAL NOTES

1. PAINT ALL METAL FRAMES & ACCESSORIES, P-3.
2. PAINT EXTERIOR FACES OF EXTERIOR DOORS & FRAMES, P-5.
3. ALL HOLLOW METAL FRAME GLAZING STOPS TO BE PLACED ON ROOM SIDE OPPOSITE FROM HALLWAY / CORRIDOR
4. PROVIDE FULLY TEMPERED GLASS UNITS WHERE REQUIRED BY I.B.C. SECTION 2406 AND SPECIFICATION SECTION 08 80 00 GLAZING.
5. PROVIDE FLOAT GLASS, PER SPECIFICATION SECTION 08 80 00, AT CONDITIONS OTHER THAN DESCRIBED IN GENERAL NOTE 3 OF DRAWING SHEET.
6. COORDINATE WITH FLOOR PLANS AND SECTIONS FOR WALL TYPES.
7. CONTRACTOR TO INSTALL PREFINISHED FLASHING AND TRIM AT ALL NEW DOOR AND WINDOW LOCATIONS TO SHED WATER TO THE EXTERIOR AND PROVIDE A WEATHER-TIGHT SEAL. REMOVE EXISTING SIDING AND FASTENERS AS REQUIRED TO INSTALL NEW WORK AND RE-ASSEMBLE WEATHER-PROOF CONDITIONS

LEGEND

HATCH IN FRAME UNITS INDICATES AREAS OF FULLY-TEMPERED FLOAT GLASS. RE: DIVISION 088000 IN THE SPECIFICATIONS.

NO HATCH AREA IN FRAME UNITS INDICATES AREAS OF FLOAT GLASS. RE: DIVISION 088000 IN THE SPECIFICATIONS.

HATCH IN FRAME UNITS INDICATES AREAS OF METAL PANEL PROVIDED BY DOOR MANUFACTURER.

HATCH IN DETAILS INDICATES AREAS OF PRE-ENGINEERED RIGID FRAME STRUCTURE PROVIDED BY OTHERS.

ABBREVIATIONS

ALUM	- ALUMINUM
FF	- FACTORY FINISH AS SPECIFIED
HM	- HOLLOW METAL
HPC	- HIGH PERFORMANCE COATING
M	- MINUTES
P#	- PAINT COLOR "NUMBER" (RE: DIVISION 9 SECTION "INTERIOR PAINTING".
WD	- WOOD
S	- SMOKE
AN	- ANODIZED
T	- TEMPERED GLASS

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LICENSED PROFESSIONAL ARCHITECT AR-984494 STATE OF IDAHO CLINT SIEVERS

RICEfergusMILLER

Project: TWIN FALLS TRAINING FACILITY
430 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

1	CITY REVISIONS	02/27/2023

Project No:	19-029
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DOOR SCHEDULE & TYPES

PERMIT SET - 02.29.2024

CITY APPROVED PLANS
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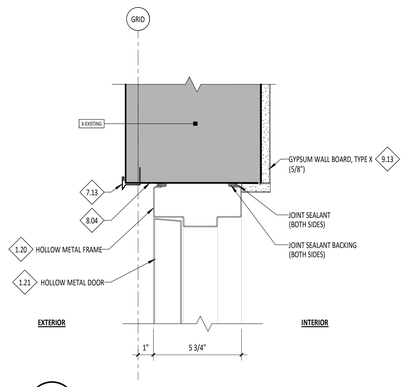
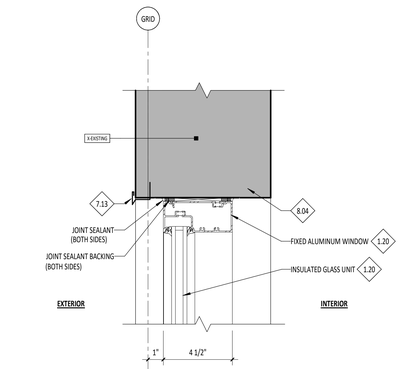
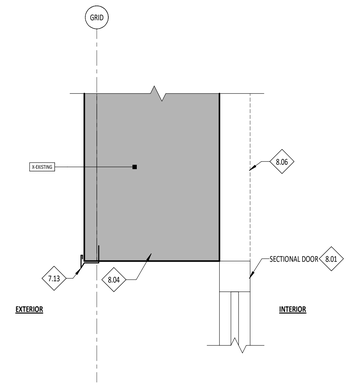


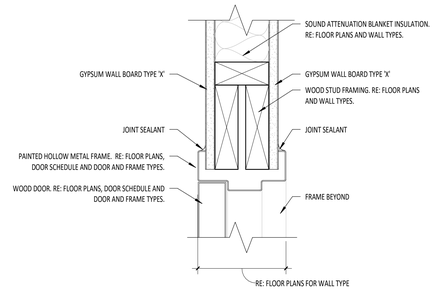
B1 A7.11 TYP HEAD DETAIL @ EXTERIOR HM DOOR
3" = 1'-0"



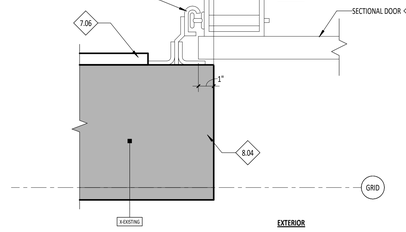
B2 A7.11 TYP HEAD DETAIL @ EXTERIOR WINDOWS
3" = 1'-0"



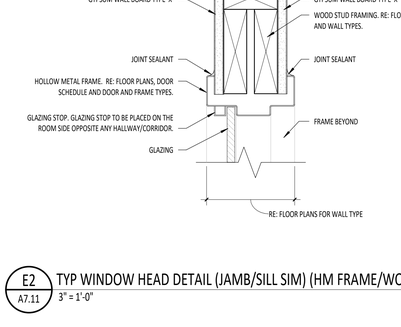
B4 A7.11 TYP HEAD DETAIL @ EXTERIOR SECTIONAL DOORS
3" = 1'-0"



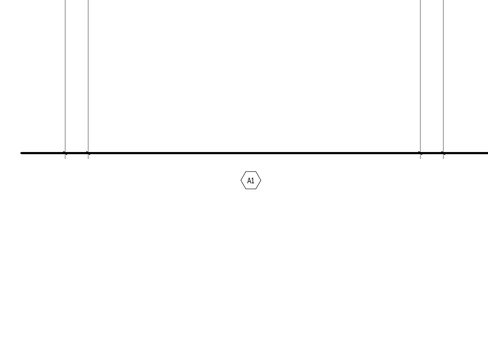
B5 A7.11 TYP HEAD DETAIL (JAMB SIM) (HM FRAME/WOOD FRAMED WALL)
3" = 1'-0"



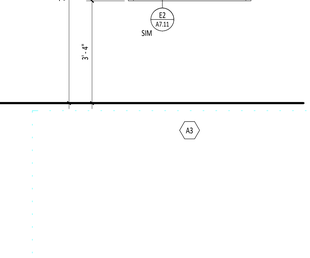
C1 A7.11 TYP THRESHOLD DETAIL @ EXTERIOR HM DOOR
3" = 1'-0"



C2 A7.11 TYP SILL DETAIL @ EXTERIOR WINDOWS
3" = 1'-0"



C4 A7.11 TYP SILL DETAIL @ SECTIONAL DOORS
3" = 1'-0"



C5 A7.11 SADDLE THRESHOLD DETAIL
3" = 1'-0"

D1 A7.11 TYP JAMB DETAIL @ EXTERIOR HM DOOR
3" = 1'-0"

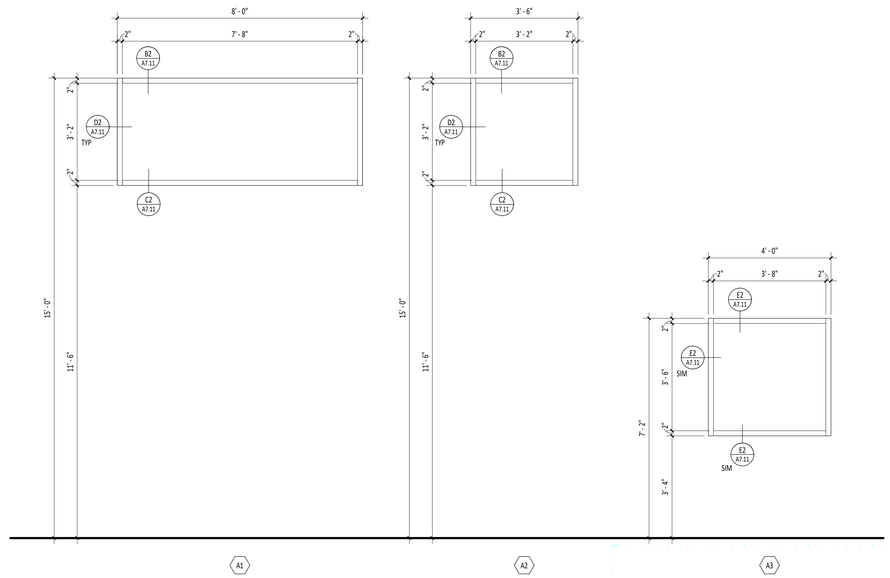
D2 A7.11 TYP JAMB DETAIL @ EXTERIOR WINDOWS
3" = 1'-0"

E1 A7.11 TYP JAMB DETAIL @ EXTERIOR SECTIONAL DOORS
3" = 1'-0"

E2 A7.11 TYP WINDOW HEAD DETAIL (JAMB/SILL SIM) (HM FRAME/WOOD FRAMED WALL)
3" = 1'-0"

ALUMINUM FRAME TYPES

1/2" = 1'-0"



NOTES - REFERENCE NOTES

1.05	COORDINATE WITH CIVIL AND LANDSCAPE DRAWINGS.
1.20	RE: FLOOR PLANS AND FRAME TYPES.
1.21	RE: FLOOR PLANS, DOOR SCHEDULE AND DOOR AND FRAME TYPES.
3.07	TAPER CONCRETE AT SECTIONAL DOORWAY LOCATIONS.
7.06	FIBER REINFORCED PANELING WITH PLYWOOD BACKING PROVIDED BY CONTRACTOR.
7.13	PREFINISHED HEAD FLASHING WITH DRIP EDGE. RE: PRE-ENGINEERED METAL BUIDLING DRAWINGS.
8.01	DOOR AS SCHEDULED.
8.04	COORDINATE HEADER, JAMB, AND SILL STRUCTURE AND TRIM WITH PRE-ENGINEERED METAL BUILDING DRAWINGS.
8.06	INSTALL ADDITIONAL STEEL ANGLE OR BENT PLATE AS REQUIRED TO SUPPORT DOOR TRACK AND CONNECTION.
9.13	PROVIDE 5/8" GYPSUM WALL BOARD TO 6" ABOVE CEILING AT X-EXTERIOR WALL TYPE IN HALLWAY 100.

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LICENSED PROFESSIONAL ARCHITECT AR-984494 STATE OF IDAHO CLINT SIEVERS

RICE fergus MILLER

Project: TWIN FALLS TRAINING FACILITY
430 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

PERMIT SET - 02.29.2024

Project No:	19-029
Date:	02/29/2024
Checked By:	TB/RC
Drawn By:	TB/AM/MH

Sheet Name:
FRAME TYPES & FRAME DETAILS

Sheet No:
A7.11

CITY APPROVED PLANS
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SCHEDULE - SIGNAGE

DOOR #	SIGN LOCATION	SIGN COPY	BRAILLE	GRAPHIC SYMBOL	SIGN TYPE	MOUNTING
100C	APPARATUS BAY 109	MAIN CORRIDOR	Yes	N/A	A	LATCH SIDE OF DOOR, BOTTOM OF SIGN AT 48" AFF
102	OFFICE 102	OFFICE	Yes	N/A	A	LATCH SIDE OF DOOR, BOTTOM OF SIGN FLUSH WITH TOP OF WALL PROTECTION PANEL
103A	KITCHENETTE 103	KITCHENETTE	Yes	N/A	A	LATCH SIDE OF DOOR, BOTTOM OF SIGN FLUSH WITH TOP OF WALL PROTECTION PANEL
103B	KITCHENETTE 103	KITCHENETTE	Yes	N/A	A	LATCH SIDE OF DOOR, BOTTOM OF SIGN AT 48" AFF
104	RESTROOM 104	RESTROOM	Yes	MALE, FEMALE, ADA	B	LATCH SIDE OF DOOR, BOTTOM OF SIGN FLUSH WITH TOP OF WALL PROTECTION PANEL
105	RESTROOM 105	RESTROOM	Yes	MALE, FEMALE, ADA	B	LATCH SIDE OF DOOR, BOTTOM OF SIGN FLUSH WITH TOP OF WALL PROTECTION PANEL
106	ELECTRICAL 106	ELECTRICAL	Yes	N/A	A	LATCH SIDE OF DOOR, BOTTOM OF SIGN FLUSH WITH TOP OF WALL PROTECTION PANEL
107	IT ROOM 107	IT	Yes	N/A	A	LATCH SIDE OF DOOR, BOTTOM OF SIGN FLUSH WITH TOP OF WALL PROTECTION PANEL
108	FIRE RISER ROOM	FIRE RISER	No	N/A	C	APPLIED TO FACE OF DOOR
108	FIRE RISER ROOM	FIRE RISER	Yes	N/A	A	LATCH SIDE OF DOOR, BOTTOM OF SIGN FLUSH WITH TOP OF WALL PROTECTION PANEL
CASED OPENING	STAIR 101	STAIR TO MEZZANINE	Yes	N/A	A	PER ELEVATION WITH BOTTOM OF SIGN AT 48" AFF
CASED OPENING	STAIR 101	STAIR TO MEZZANINE	Yes	N/A	A	PER ELEVATION WITH BOTTOM OF SIGN AT 48" AFF

SIGNAGE GENERAL NOTES

1. SIGNAGE TYPE, CONSTRUCTION AND MOUNTING TO COMPLY WITH ALL ACCESSIBILITY CODES IN RELATION TO, BUT NOT LIMITED TO, RAISED CHARACTERS, BRAILLE, PICTOGRAPHS AND MOUNTING LOCATIONS.
2. ALL MOUNTING METHODS TO BE NON-EXPOSED FASTENING

SIGN TYPES

A
TYPE: ACRYLIC PANEL WITH RAISED CHARACTERS
SIZE: 8"W x 5"H
BRAILLE: GRADE 2

B
TYPE: ACRYLIC PANEL WITH RAISED CHARACTERS
SIZE: 8"W x 12"H
BRAILLE: GRADE 2
PICTOGRAPH: 6" HIGH

C
TYPE: VINYL APPLIED LETTERS
SIZE: 2"H
COLOR: CONTRASTING WITH DOOR

SCHEDULE-ACCESSORY

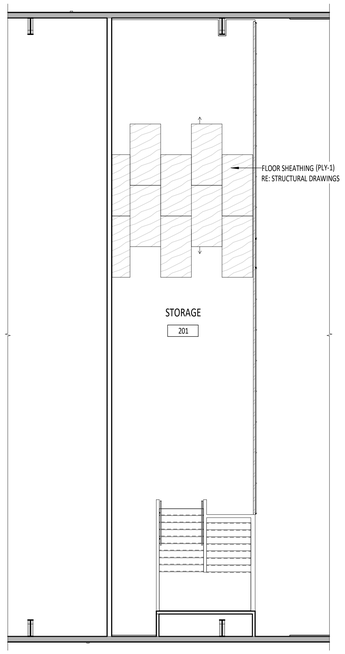
Key Name	ACCESSORY	MODEL	RESPONSIBILITY
-	SOAP DISPENSER		OFOI
-	PAPER TOWEL DISPENSER		OFOI
-	TOILET TISSUE DISPENSER		OFOI
RA-1	GRAB BARS	MANUF: ASI / STYLE: 3800 / SIZE: PER DRAWINGS / FINISH: MATTE BLACK	CFCI
RA-2	MIRROR	MANUF: ASI / STYLE: 0600 / SIZE: 24" x 48" / FINISH: MATTE BLACK	CFCI
RA-3	CLOTHES HOOK	MANUF: ASI / STYLE: 7340-41 / FINISH: MATTE BLACK	CFCI
RA-4	SHOWER CURTAIN ROD	MANUF: BOBRICK / STYLE: B-207 SERIES	CFCI

SCHEDULE - ROOM FINISH

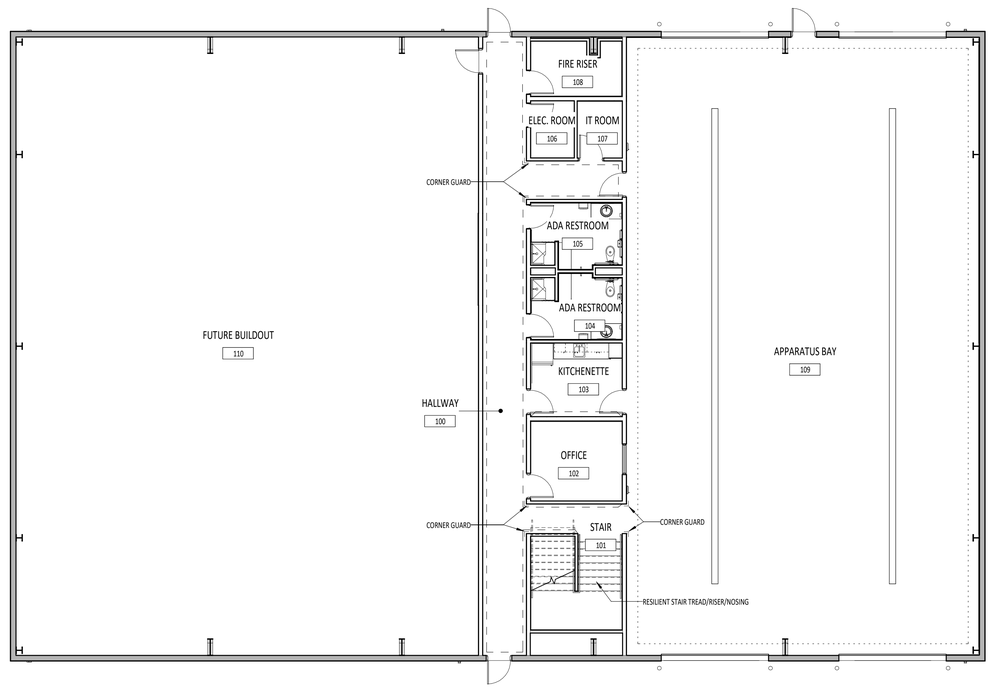
ROOM NO.	ROOM TITLE	FLOOR MAT.	FLOOR BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	CASEWORK CABINETRY	CASEWORK COUNTER TOP	CASEWORK TRANS TOP	REMARKS
100	HALLWAY	PC-1	CT-3	WP-1/P-1	WP-1/P-1	WP-1/P-1	WP-1/P-1	-	-	-	1
101	STAIR	RSC-1	-	P-1	P-1	P-1	P-1	-	-	-	
102	OFFICE	PC-1	CT-4	P-1	P-1	P-1	P-1	-	-	-	
103	KITCHENETTE	PC-1	CT-3 / CT-4	P-1	P-1	WP-1/P-1	P-1	PL-1	PL-2	-	
104	ADA RESTROOM	PC-1	MCB-1	P-2 / CT-1 / CT-2	P-2 / CT-1 / CT-2	P-2 / CT-1 / CT-2	P-2 / CT-1 / CT-2	-	SDS-1	-	1
105	ADA RESTROOM	PC-1	MCB-1	P-2 / CT-1 / CT-2	P-2 / CT-1 / CT-2	P-2 / CT-1 / CT-2	P-2 / CT-1 / CT-2	-	SDS-1	-	1
106	ELEC. ROOM	SC-1	RB-1	P-1	P-1	P-1	P-1	-	-	-	
107	IT ROOM	SC-1	RB-1	PLY-1	PLY-1	PLY-1	PLY-1	-	-	-	
108	FIRE RISER	SC-1	RB-1	P-1	P-1	P-1	P-1	-	-	-	
109	APPARATUS BAY	SC-1	MCB-2	FRP-1	FRP-1	FRP-1	P-1 / FRP-1	-	-	-	1, 3
110	FUTURE BUILDOUT		-	-	-	-	-	-	-	-	
201	STORAGE	PLY-1 / EP-1	RB-1	-	-	-	PLY-1	-	-	-	2

SCHEDULE - FINISH LEGEND

FINISH	PRODUCT DESCRIPTION	MANUFACTURER	STYLE/PATTERN/COLOR/FINISH	SIZE	COMMENTS
CG-1	CORNER GUARD	INPRO	STYLE: ALUMINUM CORNER GUARD	1-1/2" WING	
CT-1	CERAMIC WALL TILE	DALTILE	STYLE: COLOR WHEEL LINEAR / COLOR:ARCTIC WHITE / FINISH: MATTE	4" x 16"	INSTALL: 1/2 BRICK OFFSET
CT-2	CERAMIC WALL TILE	DALTILE	STYLE: COLOR WHEEL LINEAR / COLOR:ARCTIC WHITE / FINISH: MATTE	4" x 16" BULLNOSE	
CT-3	PORCELAIN WALL BASE	DALTILE	STYLE: SOCIETY / COLOR: PARK LANE GRAY / FINISH: MATTE	4" x 24" CUT SQUARE EDGE TILE	
CT-4	PORCELAIN WALL BASE	DALTILE	STYLE: SOCIETY / COLOR: PARK LANE GRAY / FINISH: MATTE	3" x 24" BULLNOSE	
EP-1	SLIP RESISTANT EPOXY PAINT	DURA GRIP	HIGH PERFORMANCE NON-SLIP EPOXY PAINT / COLOR: AMBER CLEAR		
FRP-1	FIBER REINFORCED PANELING	CRANE COMPOSITES	STYLE: VARIETEX / COLOR: TBD / FINISH: LINEN	4'-0" x 8'-0"	ALUMINUM TRIM
HD-1	HARDWARE-DRAWER PULL	GLIDERITE HARDWARE	STYLE: SOLID SQUARE BAR PULL-87227 / FINISH: MATTE BLACK	5" CENTER TO CENTER	
MCB-1	METAL COVE BASE	SCHLUTER	STYLE: DILEX AHKA / COLOR: ANNODIZED ALUMINUM		PROVIDE JOINT COVERS & MATCHING VERTICAL EDGE & INSIDE CORNER TRIM.
MCB-2	METAL COVE BASE	JTC METALS	STYLE: KICK / THICKNESS: 18GA / FINISH: BRUSHED		RE: A8.91 FOR DETAIL, PROVIDE JOINT COVERS & MATCHING VERTICAL EDGE & INSIDE CORNER TRIM.
P-1	PAINT-FIELD	SHERWIN WILLIAMS	COLOR: GREEK VILLA - 7551 /FINISH: FLAT	-	
P-2	PAINT-ACCENT	SHERWIN WILLIAMS	COLOR: BASIL-6194 / FINISH: EGGSHELL	-	
P-3	PAINT-INTERIOR DOOR FRAMES & RAILINGS	SHERWIN WILLIAMS	COLOR: IRON ORE-7069 / FINISH: SEMI-GLOSS	-	
P-4	PAINT-CEILING	SHERWIN WILLIAMS	COLOR:HIGH REFLECTIVE WHITE-7757/ FINISH: FLAT	-	
P-5	PAINT-EXTERIOR FACE OF DOORS	SHERWIN WILLIAMS	COLOR: TBD / FINISH: SEMI-GLOSS	-	
PC-1	POLISHED CONCRETE FLOOR	N/A	STYLE: SALT & PEPPER / FINISH: MATTE	-	
PL-1	PLASTIC LAMINATE - BASE CABINETS & W.P.	FORMICA	PATTERN: BEIGE ELM 5794-NG		
PL-2	PLASTIC LAMINATE COUNTER	ARBORITE	PATTERN: INUKSHUK CARBON P346-RM		
PLY-1	PLYWOOD	N/A	FINISH: NON-SLIP CLEAR COAT	-	
RB-1	RESILIENT WALL BASE	ROPPE	STYLE: PINNACLE w/TOE / COLOR: BLACK BROWN	4" HIGH	
RSC-1	RESILIENT STAIR COVERING	ROPPE	STYLE: RENEW / COLOR: SMOKE-R174 / FINISH: HAMMERED		INSTALL MATCHING TILES ON LANDING
SC-1	SEALED CONCRETE	N/A	FINISH: LIGHT BROOM		
SDS-1	QUARTZ SURFACE	WILSONART	PATTERN: DESERT VIEW-Q4043	2CM	
WP-1	WALL PROTECTION	FORMICA	STYLE: FORMICA HARDSTOP PANEL /PATTERN: BEIGE ELM 5794-NG	4' HIGH PANELS	RUN GRAIN VERTICALLY



E2 A8.00 FINISH FLOOR PLAN - LEVEL 2
1/8" = 1'-0"



E3 A8.00 FINISH FLOOR PLAN - LEVEL 1
1/8" = 1'-0"

NOTES - REFERENCE NOTES

REMARKS

1. REFER TO INTERIOR ELEVATIONS FOR LOCATIONS AND EXTENTS OF FINISH MATERIALS.
2. PLYWOOD WALL PANEL TO EXTEND FROM FINISH FLOOR TO 8'-0" AFF. FIELD VERIFY HORIZONTAL GIRT LOCATION.
3. FRP ON PLYWOOD WALL PANEL TO BE SUPPLIED & INSTALLED BY CONTRACTOR. RE: A8.91 FOR METAL BASE DETAIL.
4. INSTALL BROOM FINISH WITH SEALER/DENSIFIER ON CONCRETE FLOORING OF APPARATUS BAY.

GENERAL NOTES

1. RE: ROOM FINISH SCHEDULE SHEET FOR ADDITIONAL INFORMATION ON FLOOR AND WALL FINISHES.
2. TILE PATTERNS MUST MAINTAIN EXACT CONFIGURATION SHOWN.
3. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. RE: REFLECTED CEILING PLANS FOR CEILING AND SOFFIT PAINT COLOR LOCATIONS.
5. ALL TILE PATTERNS ARE TO BE FULL TILES EXCEPT WHERE PATTERN IS INTERRUPTED BY PORTIONS OF BUILDING. SEE INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
6. PROVIDE ADA COMPLIANT FLOOR ACCESSORIES FOR FLOORING TRANSITIONS.
7. NOT ALL FLOOR FINISHES ARE SHOWN ON FLOOR FINISH PLANS. RE: ROOM FINISH SCHEDULE FOR ALL FLOOR FINISH LOCATIONS.

ABBREVIATIONS

FLOOR FINISHES

MCB	METAL COVE BASE
PC	POLISHED CONCRETE
PLY	PLYWOODD
SC	SEALED CONCRETE

WALL BASE

CT	CERAMIC TILE
MCB	METAL COVE BASE
RB	RESILIENT BASE

WALL FINISHES

CG	CORNER GUARD
CT	CERAMIC TILE
FRP	PLASTIC SHEET PANELING
P	PAINT
WP	WALL PROTECTION

CEILINGS

APC	ACOUSTICAL PANEL CEILING
GBD	GYPSUM BOARD

CASEWORK

PL	PLASTIC LAMINATE
SDS	SOLID SURFACE

LEGEND

PRE-ENGINEERED RIGID FRAME STRUCTURE PROVIDED BY OTHERS (CUT POCHE)

PRE-ENGINEERED RIGID FRAME STRUCTURE PROVIDED BY OTHERS (SURFACE)

WALL PROTECTION

WP-1

FRP

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LICENSED PROFESSIONAL ARCHITECT AR-984494 STATE OF IDAHO CLINT SIEVERS

RICEfergusMILLER

Project: TWIN FALLS TRAINING FACILITY
430 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

Project No: 19-029
Date: 02/29/2024
Checked By: TB/RC
Drawn By: TB/AM

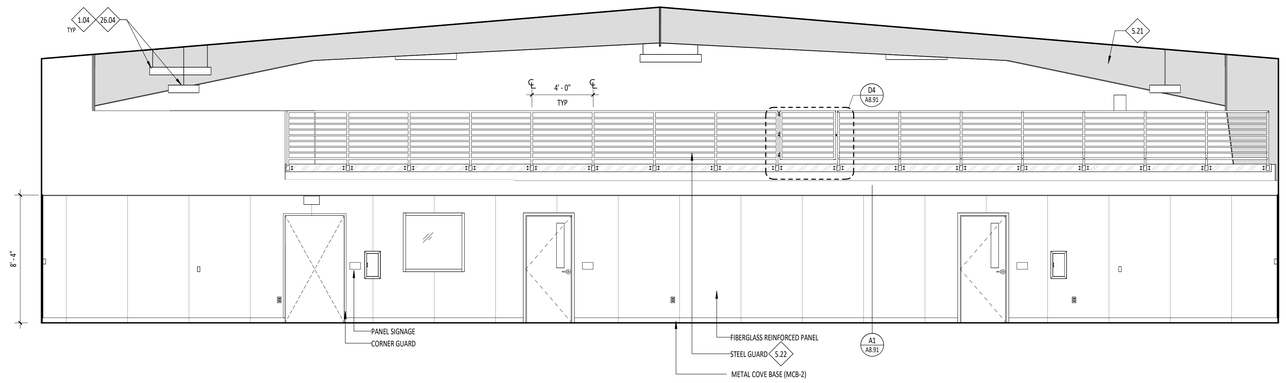
Sheet Name:
ROOM FINISH SCHEDULE, FINISH PLANS & SIGNAGE SCHEDULE

PERMIT SET - 02.29.2024

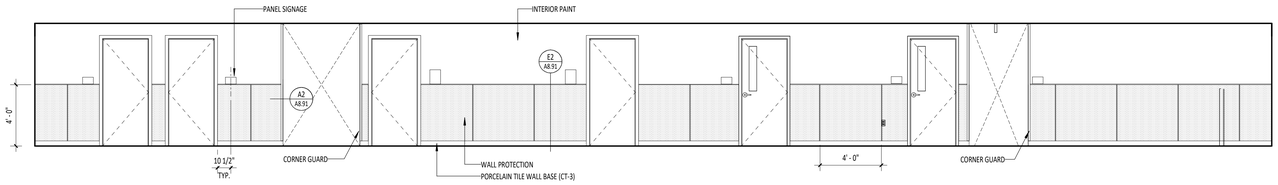
Sheet No:
A8.00

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE FOR ALL INSPECTIONS

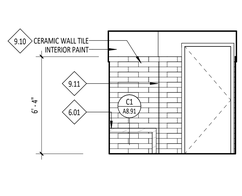
2/29/2024 2:18:33 PM



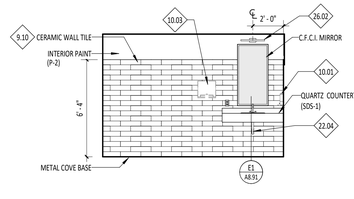
B2 / A8.51 APPARATUS BAY - 109 WEST
1/4" = 1'-0"



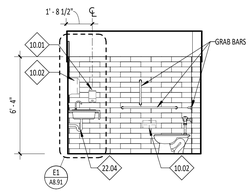
C2 / A8.51 HALLWAY - EAST
1/4" = 1'-0"



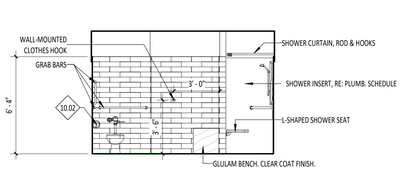
D5 / A8.51 ADA RR - 105 WEST
1/4" = 1'-0"



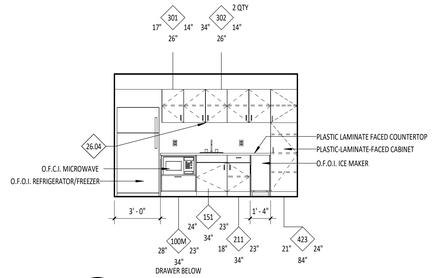
D4 / A8.51 ADA RR - 105 NORTH
1/4" = 1'-0"



D3 / A8.51 ADA RR - 105 EAST
1/4" = 1'-0"



D6 / A8.51 ADA RR - 105 SOUTH
1/4" = 1'-0"



E4 / A8.51 KITCHENETTE - 104 NORTH
1/4" = 1'-0"

NOTES - REFERENCE NOTES

1.04	COORDINATE WITH REFLECTED CEILING PLAN.
5.21	PREFABRICATED METAL BUILDING STEEL STRUCTURE TO BE PROVIDED BY OTHERS. COORDINATE WITH ARCHITECT IF ANY CHANGES OCCUR.
5.22	Z-PERLINS (BEYOND) OF PREMANUFACTURED METAL BUILDING ROOF ASSEMBLY TO BE PROVIDED BY OTHERS. RE: PRE-ENGINEERED METAL BUILDING DRAWINGS. COORDINATE WITH ARCHITECT IF ANY CHANGES OCCUR.
6.01	GLULAM BENCH. CLEAR COAT FINISH.
9.10	INSTALL BULLNOSE PIECE AT TOP ROW, TYP.
9.11	INSTALL JOLLY PROFILE TILE MATCHING WALL TILE AT OUTSIDE CORNERS, TYP.
10.01	O.F.O.I. SOAP DISPENSER
10.02	O.F.O.I. TOILET PAPER DISPENSER
10.03	O.F.O.I. PAPER TOWEL DISPENSER
22.04	INSULATE EXPOSED PLUMBING, TYP.
26.02	COORDINATE WITH LIGHTING PLANS.
26.04	LIGHT FIXTURE. COORDINATE WITH ELECTRICAL DRAWINGS.

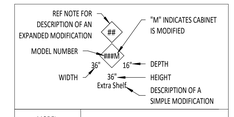
GENERAL NOTES

1. RE: ROOM FINISH SCHEDULE AND FINISH FLOOR PLANS FOR MATERIAL AND FINISH INFORMATION.
2. RE: BUILDING INFORMATION SHEETS FOR CODE AND FIRE INFORMATION.
3. RE: FLOOR PLANS AND DOOR SCHEDULE FOR DOOR AND FRAME TYPES.
4. PROVIDE RWB OR SCHEDULED BASE AT ALL TOE SPACES OF ALL CABINETS, SIDES OF CABINETS AND ALL KNEE SPACES BELOW CABINETS. RE: DIVISION 9, SECTION "RESILIENT BASE AND ACCESSORIES".
5. PROVIDE BLOCKING FOR ALL WALL-MOUNTED ACCESSORIES AND EQUIPMENT.
6. PAINT ALL EXPOSED STEEL RAILING ASSEMBLY AND ANGLE P-3. RE: FINISH SCHEDULE.

LEGEND

- PRE-ENGINEERED RIGID FRAME STRUCTURE PROVIDED BY OTHERS (CUT POCHE)
- PRE-ENGINEERED RIGID FRAME STRUCTURE PROVIDED BY OTHERS (SURFACE)

CASEWORK TAG LEGEND



MODEL NUMBER	INDICATES MODEL NUMBER OF AWS CABINET.
M	INDICATES A MODIFIED VERSION OF THE AWS CABINET MODEL REPRESENTED BY THE PRECEDING NUMBER.
MODIFICATION	A DESCRIPTION OF THE MODIFICATION MADE INDICATED BY THE (M) FOLLOWING THE MODEL NUMBER.
WIDTH	INDICATES WIDTH OF CABINET, DIMENSIONED FROM OUTSIDE FACE TO OUTSIDE FACE.
DEPTH	INDICATES DEPTH OF CABINET, DIMENSIONED FROM FACE OF WALL TO FACE OF CABINET EXCLUDING CABINET DOOR WHEN DOOR APPLIES.
HEIGHT	INDICATES HEIGHT OF CABINET, DIMENSIONED FROM FACE OF FINISHED FLOOR TO TOP OF COUNTERTOP FOR BASE CABINETS AND FROM BOTTOM OF CABINET TO TOP OF CABINET FOR UPPER CABINETS.

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Project No:	19-029
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Drawn By:	AM/MH

Sheet Name:
INTERIOR ELEVATIONS

PERMIT SET - 02.29.2024

CITY APPROVED PLANS
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PLANS MUST BE ON JOB SITE FOR ALL INSPECTIONS

Sheet No:
A8.51

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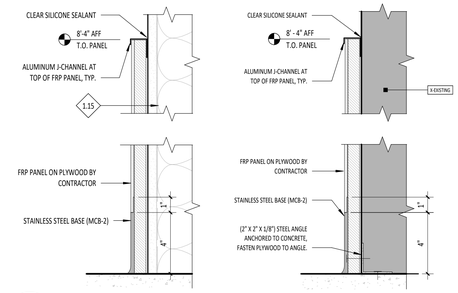
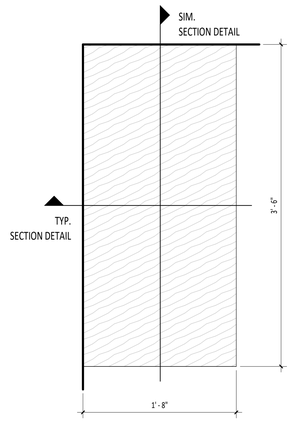
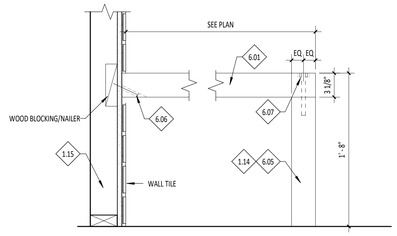


A1 A8.91 METAL COVE BASE (MCB-2) DETAIL
3" = 1'-0"

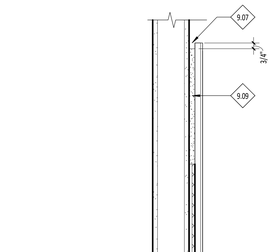


PLAN

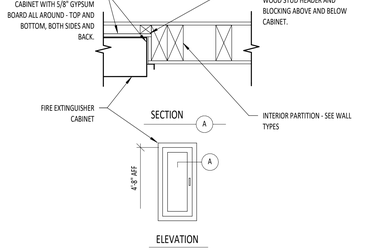


SECTION

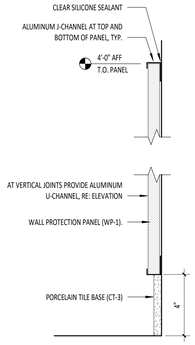
C1 A8.91 RESTROOM BENCH DETAIL
1 1/2" = 1'-0"



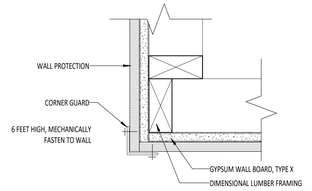
E1 A8.91 SECTION @ RESTROOM SINK
1 1/2" = 1'-0"



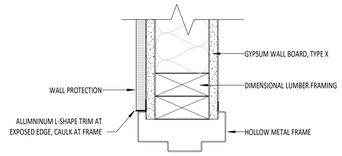
D2 A8.91 FIRE EXTINGUISHER CABINET DETAIL- SEMI RECESSED
3" = 1'-0"



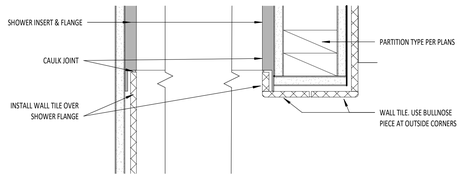
E2 A8.91 LAMINATE FACED WALL PANEL
3" = 1'-0"



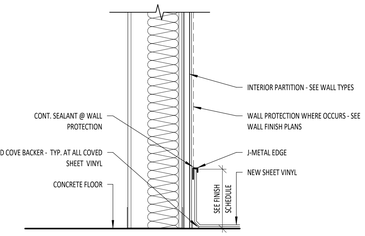
A2 A8.91 TYP CORNER GUARD DETAIL
3" = 1'-0"



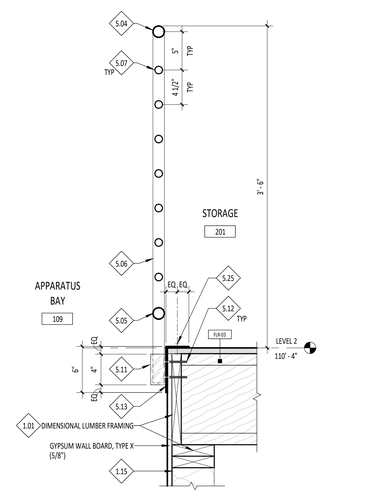
B2 A8.91 TYP WALL PROTECTION AT DOOR FRAME (PLAN)
3" = 1'-0"



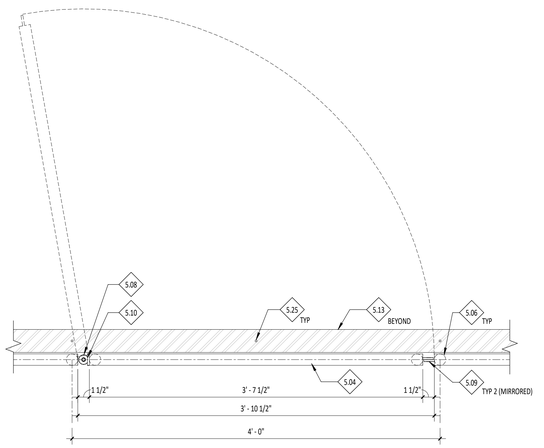
A5 A8.91 TILE @ SHOWER FLANGE
3" = 1'-0"



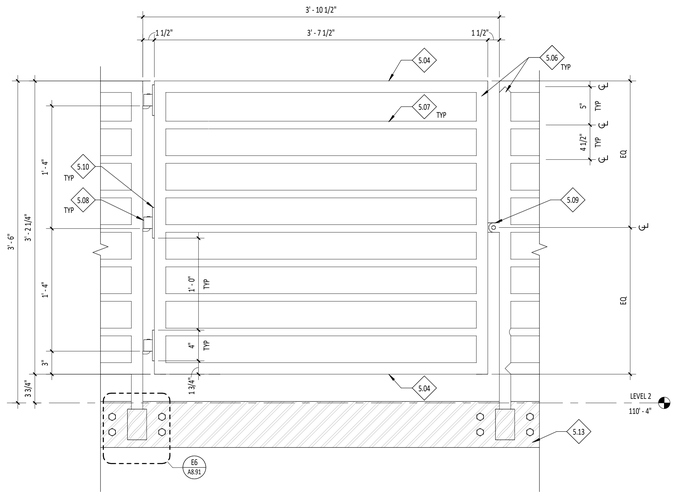
B3 A8.91 COVED BASE DETAIL
3" = 1'-0"



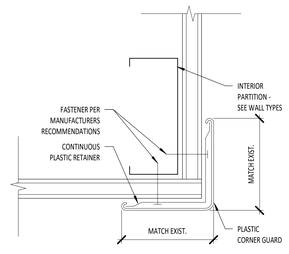
D3 A8.91 REMOVABLE RAIL SECTION DETAIL
1 1/2" = 1'-0"



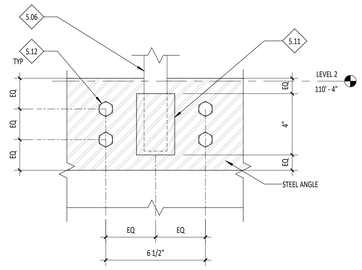
B4 A8.91 PLAN - RAILING GATE
1 1/2" = 1'-0"



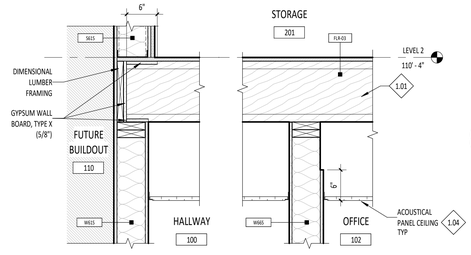
D4 A8.91 ELEVATION - RAILING GATE
1 1/2" = 1'-0"



E4 A8.91 CORNER GUARD DETAIL
3" = 1'-0"



E6 A8.91 REMOVABLE RAIL DETAIL ELEVATION
3" = 1'-0"



E3 A8.91 MEZZANINE FLOOR DETAIL @ HALLWAY 100
1" = 1'-0"

NOTES - REFERENCE NOTES

1.01	COORDINATE WITH STRUCTURAL DRAWINGS.
1.04	COORDINATE WITH REFLECTED CEILING PLAN.
1.14	WHERE OCCURS
1.15	RE: FLOOR PLANS, WALL TYPES, AND/OR WALL SECTIONS.
5.04	1-1/2" DIAMETER STEEL HANDRAIL WELDED TO STEEL POST.
5.05	1-1/2" DIAMETER STEEL RAIL WELDED TO STEEL POST.
5.06	1-1/2" DIAMETER STEEL POST.
5.07	1 1/2" DIAMETER STEEL RAIL WELDED TO STEEL POST.
5.08	1 1/2" PIPE SLEEVE, HINGE WELD TO STEEL PLATE.
5.09	1 1/4" X 1/4" DIAMETER STEEL TAB, HINGE WELD TO STEEL POST, PROVIDE 1/2" DIAMETER HOLE FOR SECURING CLOSED.
5.10	1 1/2" X 4" STEEL PLATE WELDED TO STEEL POST.
5.11	2 1/2" X 4" COLLAR TO RECEIVE STEEL POST, WELDED TO STEEL ANGLE.
5.12	1/2" X 3" STEEL LAG BOLT. ENSURE BACKING SECURED BEHIND FASTENER.
5.13	6" X 3" X 3/16" STEEL ANGLE.
5.25	COUNTERSINK SCREW 24" O.C.
6.01	GLULAM BENCH. CLEAR COAT FINISH.
6.05	GLULAM LEG. CLEAR COAT FINISH.
6.06	SCREW BOTTOM OF GLULAM BENCH WITHIN POCKET HOLE JOINERY TO BLOCKING.
6.07	COUNTERSUNK SOS SCREW.
7.02	ADHESIVE
9.07	REVEAL AT TOP AND SIDES OF MIRROR.
9.08	RE: FINISH SCHEDULES XX.XX
9.09	TEMPERED HARDBOARD TO MATCH THICKNESS OF WALL TILE. PAINT TO MATCH WALL.

GENERAL NOTES

1. RE: ROOM FINISH SCHEDULE AND FINISH FLOOR PLANS FOR MATERIAL AND FINISH INFORMATION.
2. RE: BUILDING INFORMATION SHEETS FOR CODE AND FIRE INFORMATION.
3. RE: FLOOR PLANS AND DOOR SCHEDULE FOR DOOR AND FRAME TYPES.
4. PROVIDE RWB OR SCHEDULED BASE AT ALL TOE SPACES OF ALL CABINETS, SIDES OF CABINETS AND ALL KNEE SPACES BELOW CABINETS. RE: DIVISION 9, SECTION "RESILIENT BASE AND ACCESSORIES".
5. PROVIDE BLOCKING FOR ALL WALL-MOUNTED ACCESSORIES AND EQUIPMENT.
6. PAINT ALL EXPOSED STEEL RAILING ASSEMBLY AND ANGLE P-3. RE: FINISH SCHEDULE.

CITY APPROVED PLANS
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LICENSED PROFESSIONAL ARCHITECT AR-984494 STATE OF IDAHO CLINT SIEVERS

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Project: TWIN FALLS TRAINING FACILITY
430 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

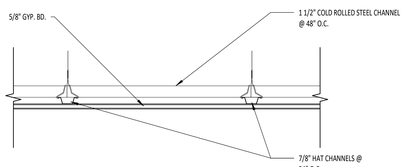
PERMIT SET - 02.29.2024

Project No:	19-029
Date:	02/29/2024
Checked By:	TB/RC
Drawn By:	TB/AM/MH

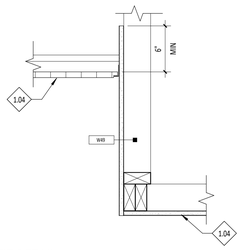
Sheet Name:
INTERIOR DETAILS

Sheet No:
A8.91

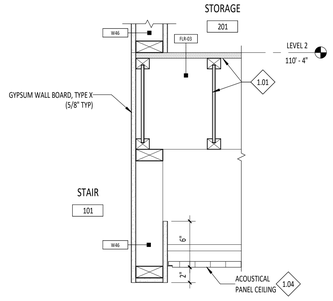
2/29/2024 2:18:41 PM



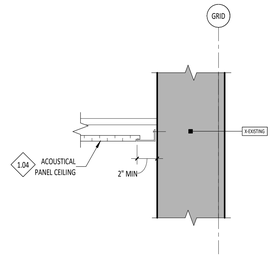
A1 A9.01 SUSPENDED CEILING DETAIL
1 1/2" = 1'-0"



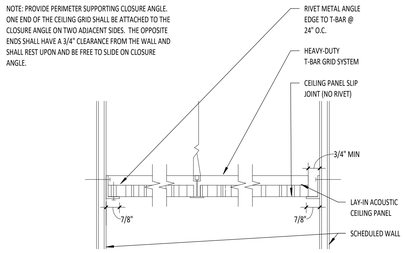
A2 A9.01 SOFFIT DETAIL
1 1/2" = 1'-0"



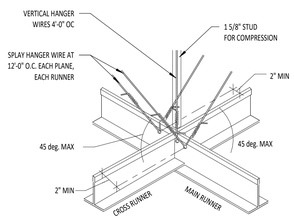
A4 A9.01 STAIR CEILING TO MEZZANINE WALL DETAIL
1 1/2" = 1'-0"



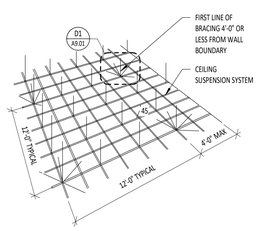
A5 A9.01 CEILING DETAIL @ APC TO EXISTING WALL
1 1/2" = 1'-0"



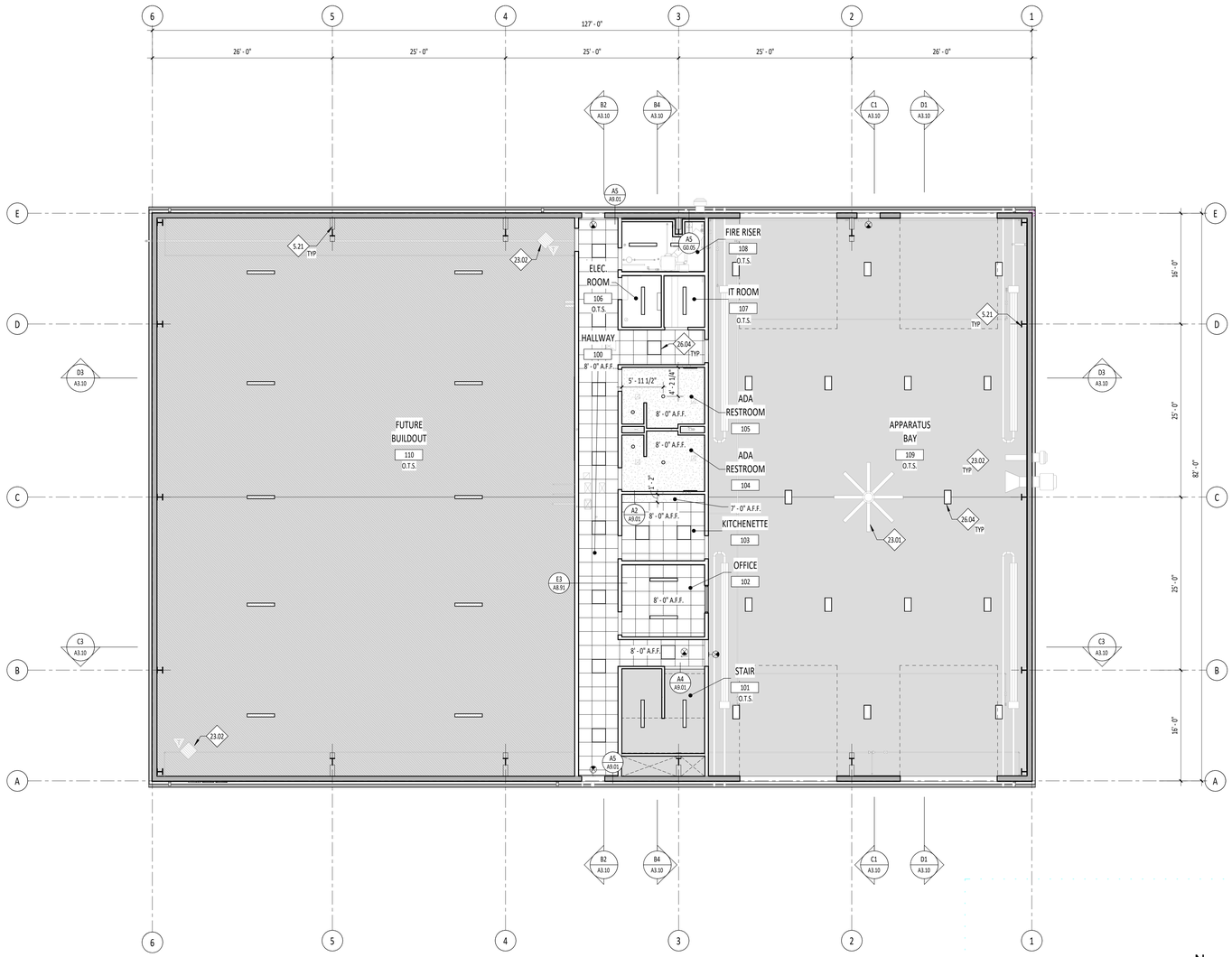
C1 A9.01 TYPICAL LAY-IN CEILING TILE EDGE DETAIL
3" = 1'-0"



D1 A9.01 TYPICAL SEISMIC BRACING DETAIL-01
12" = 1'-0"



E1 A9.01 TYPICAL SEISMIC BRACING DETAIL-02
12" = 1'-0"



E2 A9.01 COMPOSITE CEILING PLAN - LEVEL 1
1/8" = 1'-0"

NOTES - REFERENCE NOTES

1.01	COORDINATE WITH STRUCTURAL DRAWINGS.
1.04	COORDINATE WITH REFLECTED CEILING PLAN.
5.21	PREFABRICATED METAL BUILDING STEEL STRUCTURE TO BE PROVIDED BY OTHERS. COORDINATE WITH ARCHITECT IF ANY CHANGES OCCUR.
23.01	COOORDINATE WITH MECHANICAL DRAWINGS.
23.02	MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL DRAWINGS.
26.04	LIGHT FIXTURE. COORDINATE WITH ELECTRICAL DRAWINGS.

GENERAL NOTES

1. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL ITEMS TO BE PROVIDED AT THE CEILING PLANE AND IN THE WORK.
2. CENTER ALL LIGHT FIXTURES AND SPRINKLER HEADS IN THEIR RESPECTIVE CEILING PANEL.
3. ALL SOFFIT DIMENSIONS SHOWN ARE TO FACE OF FINISH.
4. COORDINATE WITH MECHANICAL & ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR PHYSICAL SIZES OF ALL CEILING GRILLES, DIFFUSERS, FIXTURES, CANS, AND ALL RELATED ITEMS.
5. PROVIDE ACCESS PANELS IN HARD LID CEILINGS AS REQUIRED TO MAINTAIN AND ADJUST MECHANICAL EQUIPMENT.

LEGEND

	2' X 2' ACOUSTIC CEILING SUSPENSION SYSTEM WITH ACOUSTICAL PANEL CEILING UNITS, APC-1, U.O.N. RE: DIVISION 09 IN THE SPECIFICATIONS.
	GYPSUM BOARD CEILING ON STEEL FRAMING AND SUPPORT SYSTEM. PAINT - P-4, U.O.N. RE: DIVISION 09 IN THE SPECIFICATIONS.
O.T.S.	OPEN TO STRUCTURE
	FUTURE BUILDOUT (PHASE II - TI)
	PRE-ENGINEERED RIGID FRAME STRUCTURE PROVIDED BY OTHERS (CUT POCHE)
	PRE-ENGINEERED RIGID FRAME STRUCTURE PROVIDED BY OTHERS (SURFACE)
	VERTICAL SERVICE DROP/CHASE. COORDINATE WITH MECHANICAL DRAWINGS.
	LIGHTING FIXTURES. COORDINATE WITH ELECTRICAL DRAWINGS.
X' - X" A.F.F.	CEILING HEIGHT ABOVE FINISH FLOOR

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116 S. 6TH STREET
BOISE, ID 83702
www.pivotnorthdesign.com

STAMP

LICENSED PROFESSIONAL ARCHITECT AR-984494 STATE OF IDAHO CLINT SIEVERS

RICEfergusMILLER

Project: TWIN FALLS TRAINING FACILITY
430 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

PERMIT SET - 02.29.2024

Project No:	19-029
Date:	02/29/2024
Checked By:	TB/RC
Drawn By:	TB/AM

Sheet Name:
COMPOSITE CEILING PLAN - LEVEL 1 & CEILING DETAILS

Sheet No:
A9.01

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE FOR ALL INSPECTIONS

2/29/2024 2:18:45 PM

STRUCTURAL SHEET INDEX

SHEET NUMBER	SHEET NAME	ISSUE LOG: 100% DD	ISSUE LOG: PERMIT SET
S0.00	ABBREVIATIONS, SYMBOLS AND SHEET INDEX		
S1.01	GENERAL NOTES		
S1.02	GENERAL NOTES		
S2.01	LEVEL 1 - COMPOSITE FLOOR PLAN		
S2.02	LEVEL 2 - COMPOSITE FLOOR PLAN		
S6.01	CONCRETE DETAILS		
S7.01	WOOD FRAMING DETAILS		
S7.02	WOOD FRAMING DETAILS		
S7.03	TYPICAL COLD FORMED STEEL DETAILS		

ISSUE LOG KEY:
X ISSUED AS PART OF A SET
- NOT AS PART OF ISSUED SET
* FOR INFORMATION ONLY

STRUCTURAL ABBREVIATIONS

(E)	EXISTING
AB	ANCHOR BOLT
ADD'L	ADDITIONAL
ADJ	ADJUSTABLE
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISH FLOOR
ANCH	ANCHOR
ARCH	ARCHITECTURAL
B.O.	BOTTOM OF
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BN	DIAPHRAGM BOUNDARY NAILING
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BTWN	BETWEEN
C	CAMBER
CAP	CAPACITY
CC	CENTER TO CENTER
CDF	CONTROLLED DENSITY FILL
CIP	CAST-IN-PLACE
CJ	CONSTRUCTION OR CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CTR	CENTER
CY	CUBIC YARD
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DCW	DEMAND CRITICAL WELD
DEMO	DEMOLISH
DET	DETAIL
DF	DOUGLAS FIR
DIA	DIAMETER
DIAG	DIAGONAL
DKG	DECKING
DN	DOWN
DWF	DEFORMED WIRE FABRIC
DWG	DRAWING
DWL	DOWEL
EA	EACH
EF	EACH FACE
EL	ELEVATION
ELECT	ELECTRICAL
ELEV	ELEVATOR
EN	PANEL EDGE NAILING
EQ	EQUAL OR EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR
F	FAHRENHEIT
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISH FLOOR
FLR	FLOOR
FOB	FACE OF BUILDING
FS	FAR SIDE
FT	FEET
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GEN	GENERAL
GL	GLUED LAMINATED TIMBER
GOV	GOVERNMENT
GR	GRADE
GWB	GYPSUM WALL BOARD
HF	HEM-FIR
HGR	HANGER
HK	HOOK
HORIZ	HORIZONTAL
HP	HIGH POINT
HSS	HOLLOW STRUCTURAL SECTION
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IF	INSIDE FACE
IN	INCH
INFO	INFORMATION
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIP (1,000 LBS.)
KSF	KIPS PER SQUARE FOOT
LF	LINEAL FOOT
LFH	LONG FACE HORIZONTAL
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LNGT	LONGITUDINAL
LP	LOW POINT
LSL	LAMINATED STRAND LUMBER
LVL	LAMINATED VENEER LUMBER
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NS	NONSHRINK
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
PAF	POWER ACTUATED FASTENER
PC	PIECE
PC	PILE CAP
PEN	PENETRATION
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PLWD	PLYWOOD
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POST-TENSIONED
PT	PRESERVATIVE-TREATED
PWT	PREFABRICATED WOOD TRUSS
R	RADIUS
RD	ROOF DRAIN
REINF	REINFORCING
REQ'D	REQUIRED
RND	ROUND
RO	ROUGH OPENING
RTN	RETURN
SC	SLIP CRITICAL
SCHED	SCHEDULE
SECT	SECTION
SFRS	SEISMIC FORCE-RESISTING SYSTEM
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SOG	SLAB-ON-GRADE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENER
STIRR	STIRRUP
STL	STEEL
STRUCT	STRUCTURAL
SUPP	SUPPORT
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T.O.	TOP OF
THK	THICK(NESS)
THRU	THROUGH
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UT	ULTRASONIC TESTING
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WD	WOOD
WF	WIDE FLANGE
WHS	WELDED HEADED STUD
WP	WORK POINT

STRUCTURAL DRAWING SYMBOLS

GRIDLINE

SURFACE - SLOPE UP

SURFACE - STEPPED

SURFACE - SLOPE DOWN

SURFACE - SLOPE TWO WAYS

UNDISTURBED SOIL, COMPACTED SOIL, BACKFILL, OR ANY PREPARED SUBGRADE.

NORTH ARROW

DETAIL SYMBOL

BUILDING SECTION CUTS

ELEVATION OF WALL OR FRAME

DETAIL SECTION

SPOT ELEVATION AS INDICATED
T.O. DECK
T.O.CONC.
T.O. STEEL
T.O. PLY
DECK BRG

ELEVATION OF LEVEL

WORKPOINT

DIRECTION OF DOWNWARD SLOPE

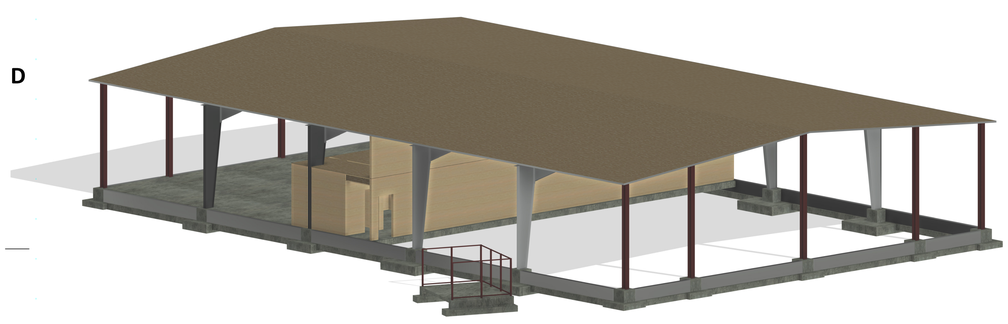
CONCRETE WALL ABOVE

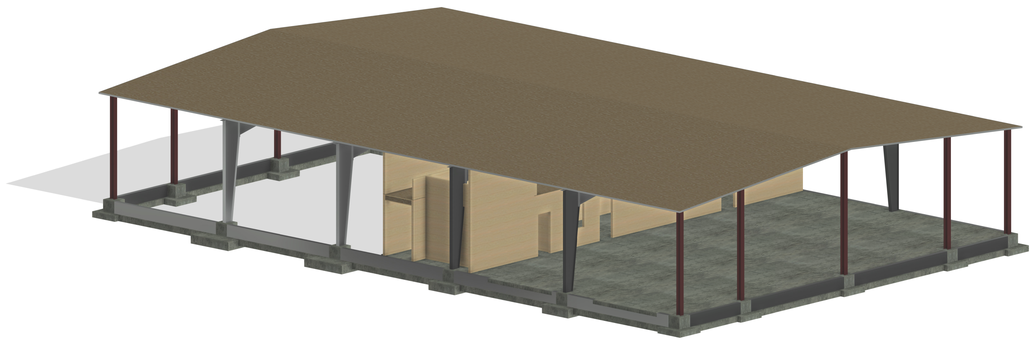
CMU WALL ABOVE

WOOD/CFS STRUCTURAL W

WALL BELOW

ISOMETRIC VIEWS





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STAMP

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PROFESSIONAL ENGINEER REGISTERED STATE OF IDAHO 12033 JUSTIN W. WILLIAMS

Project:
TWIN FALLS FIRE TRAINING CENTER
420 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

PERMIT SET - 01.20.2023

Project No:	10212100013
Date:	01/20/2023
Checked By:	JW
Drawn By:	KPFF

Sheet Name:
ABBREVIATIONS, SYMBOLS AND SHEET INDEX

Sheet No:
S0.00

20/Jan/23 4:11:50 PM

GENERAL STRUCTURAL NOTES

CAST-IN-PLACE CONCRETE:

GENERAL:

1. COMPLY WITH THE PROVISIONS OF ACI 301 AND ACI 117, EXCEPT AS MODIFIED BY THESE CONTRACT DOCUMENTS.
2. MANUFACTURER QUALIFICATIONS: CERTIFIED ACCORDING TO NRMCA's "CERTIFICATION OF READY MIXED CONCRETE PRODUCTION FACILITIES.

PRODUCTS:

1. CONCRETE MIXTURES: PREPARE DESIGN MIXTURES FOR EACH TYPE AND STRENGTH OF CONCRETE, PROPORTIONED ON THE BASIS OF LABRATORY TRIAL MIXTURES OR FIELD TEST DATA OR BOTH, ACCORDING TO ACI 301.

CONCRETE MIXTURES					
LOCATIONS IN STRUCTURE	DESIGN STRENGTH	MAX UNIT WEIGHT	MAX W/C RATIO	TARGET AIR CONTENT	EXPOSURE CATEGORIES
FOOTINGS AND FOUNDATION WALLS	4,000 PSI	145 PCF	0.45	7.5%	F0, S0, W0, C0
SLAB ON GRADE	4,000 PSI	145 PCF	0.45	0.0%	F0, S0, W0, C0
NORMAL WEIGHT CONCRETE DECK	4,000 PSI	145 PCF	0.50	0.0%	F0, S0, W0, C0
LIGHTWEIGHT CONCRETE FILL OVER DECK	4,000 PSI	110 PCF	0.50	0.0%	F0, S0, W0, C0
CURBS, PADS, TOPPING SLABS, ETC.	3,000 PSI	145 PCF	0.50	0.0%	F0, S0, W0, C0
WALLS AND BUILDING FRAME MEMBERS	4,000 PSI	145 PCF	0.50	0.0%	F0, S0, W0, C0

EXECUTION:

1. OPENINGS, POCKETS, ETC., LARGER THAN 6" SHALL NOT BE PLACED IN CONCRETE SLABS, DECKS, OR WALLS UNLESS SPECIALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE ARCHITECT WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., LARGER THAN 6" NOT SHOWN ON THE STRUCTURAL DRAWINGS.
2. PIPES AND CONDUITS EMBEDDED IN CONCRETE:
   A. PIPES LARGER THAN 1-1/2" DIAMETER SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY ARCHITECT.
   B. PIPES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS.
   C. DO NOT STACK CONDUITS. SPACE EMBEDDED PIPES AND CONDUITS AT A MINIMUM OF AT A MINIMUM OF 3 DIAMETERS CLEAR FROM OTHER EMBEDDED PIPES/CONDUITS AND 1 1/2" CLEAR FROM REINFORCING BARS.
   D. NO CONDUITS SHALL BE PLACED IN CONCRETE FILL OVER METAL DECK.
3. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED WITHOUT ARCHITECT REVIEW AND APPROVAL.
4. SCREED CONCRETE FILL OVER STEEL DECK TO A CONSTANT THICKNESS AS SPECIFIED IN THE DECKING SCHEDULE. DO NOT EXCEED THE SPECIFIED DECK THICKNESS BY MORE THAN 1/2".
5. ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED SHALL BE CLEANED AND ROUGHENED TO 1/4" AMPLITUDE.

REINFORCING STEEL:

GENERAL:

1. DETAIL, FABRICATE, AND INSTALL REINFORCING IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 301, ACI 117, AND THE "CRSI MANUAL OF STANDARD PRACTICE."

PRODUCTS:

1. REINFORCING STEEL: ASTM A615, GRADE 60, DEFORMED
2. WELDED WIRE REINFORCEMENT (WWR): ASTM A1064

EXECUTION:

1. PROVIDE THE MINIMUM CONCRETE COVER FOR REINFORCEMENT IN CAST-IN-PLACE CONCRETE (NON-PRESTRESSED) AS INDICATED IN THE TABLE BELOW.

MINIMUM CONCRETE CLEAR COVER		
LOCATION	BAR SIZE	CLEAR COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	ALL	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	#6 & LARGER	2"
	#5 & SMALLER	1 1/2"
SLABS, WALLS, OR JOISTS NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND	#14 & LARGER	1 1/2"
	#11 & SMALLER	3/4"
BEAM AND COLUMN TIES & STIRRUPS NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	ALL	1 1/2"

FOUNDATION:

GEOTECHNICAL INVESTIGATION:

1. GEOTECHNICAL INFORMATION AND FOUNDATION DESIGN IS BASED ON THE FOLLOWING GEOTECHNICAL REPORTS AND SUPPLEMENTS/ADDENDUMS. COPIES OF THE REPORTS SHALL BE AVAILABLE AT THE JOBSITE AT ALL TIMES.

REPORT/ADDENDUM TITLE	PREPARED BY	DATE
GEOTECHNICAL ENGINEERING REPORT FOR TWIN FALLS FIRE TRAINING FACILITY -T200068G	ATLAS	07.28.20

GEOTECHNICAL DESIGN CRITERIA:

SPREAD OR CONTINUOUS FOOTINGS:

ANTICIPATED BEARING MATERIAL	ALLOWABLE BEARING CAPACITY	MINIMUM FROST DEPTH	ALLOWABLE LATERAL RESISTANCE		SUBGRADE MODULUS
			PASSIVE RESISTANCE	COEFFICIENT OF FRICTION	
COMPETENT, UNDISTRUBED, NATIVE LEAN CLAY SOILS, SANDY SILTY CLAY SOILS, SANDY SILT SOILS, OR COMPACTED STRUCTURAL FILL	1500 PSF	30 IN.	303 PSF/FT	0.35	N/A

FOUNDATION REQUIREMENTS:

1. STRUCTURAL FILL: COMPACT ALL SOIL BELOW FOUNDATIONS AND SLABS-ON-GRADE TO MINIMUM 95% OF OPTIMUM DRY DENSITY PER ASTM D1557.
2. FROST PROTECTION: AT EXTERIOR FOOTINGS, PROVIDE MINIMUM FROST DEPTH INDICATED IN SCHEDULE FROM LOWEST ADJACENT GRADE TO BOTTOM OF FOOTING. VERIFY THAT FOOTING ELEVATIONS AND FINAL GRADES INDICATED WILL PROVIDED THIS MINIMUM DEPTH. NOTIFY ARCHITECT OF ANY LOCATIONS THAT MAY NOT ACHIEVE THIS MINIMUM FROST DEPTH.
3. PROVIDE DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER AND/OR SEEPAGE.
4. EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE AND REINFORCING.
5. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR GROUT HAS ATTAINED FULL DESIGN STRENGTH. BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL DESIGN STRENGTH.
6. REMOVE ALL ABANDONED FOOTINGS, UTILITIES, ETC. NEW FOOTINGS MUST EXTEND INTO UNDISTURBED SOILS.
7. THE DESIGN GROUNDWATER ELEVATION IS __ FEET BELOW EXISTING GRADE PER THE GEOTECHNICAL INVESTIGATION REPORT.

DESIGN CRITERIA:

FLOOR LIVE LOADS:

MEZZANINE ROOF 125 PSF (N0 REDUCTION)

STAIRS 100 PSF (NO REDUCTION)

ROOF LIVE LOADS:

ROOF 20 PSF (REDUCIBLE)

ROOF SNOW LOADS: (SECTION 1603.1.3 OF THE CODE):

GROUND SNOW LOAD: P_g = 15 PSF

FLAT ROOF SNOW LOAD: P_f = 12.6 PSF

MINIMUM SNOW LOAD: P_m = 25 PSF

SNOW EXPOSURE FACTOR: C_e = 1.0

SNOW LOAD IMPORTANCE FACTOR: I_s = 1.0

SLOPE FACTOR: C_s = 1.0

THERMAL FACTOR: Ct = 1.2

RAIN LOADS:

RAIN INTENSITY: *i* = 4 in/hr

WIND DESIGN DATA:

WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609 OF THE CODE.

RISK CATEGORY: II

BASIC WIND SPEED: V = 115 MPH (3-SECOND GUST)

WIND EXPOSURE: B

INTERNAL PRESSURE COEFFICIENT: GC_{pi} = ± 0.18

EARTHQUAKE DESIGN DATA:

SITE AND OCCUPANCY PARAMETERS	
SEISMIC IMPORTANCE FACTOR	I_e = 1.00
RISK CATEGORY	II
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS	S_S = 0.194
	S_1 = 0.082
SITE CLASS	D
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS	S_{DS} = 0.207
	S_{D1} = 0.132
SEISMIC DESIGN CATEGORY	B

BUILDING PARAMETERS - METAL BUILDING	
SEISMIC FORCE RESISTING SYSTEM	ODINARY STEEL MOMENT FRAMES
SEISMIC RESPONSE COEFFICIENTS	C_S = 0.069
RESPONSE MODIFICATION FACTOR	R = 3
SYSTEM OVERSTRENGTH FACTOR	Ω_0 = 3
DEFLECTION AMPLIFICATION FACTOR	C_d = 3
ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE
INELASTIC STORY DRIFT	Δ_0 =
DESIGN BASE SHEAR	V = 9.21 K

BUILDING PARAMETERS - MEZZANINE	
SEISMIC FORCE RESISTING SYSTEM	WOOD SHEAR WALL
SEISMIC RESPONSE COEFFICIENTS	C_S = 0.032
RESPONSE MODIFICATION FACTOR	R = 6.5
SYSTEM OVERSTRENGTH FACTOR	Ω_0 = 3
DEFLECTION AMPLIFICATION FACTOR	C_d = 4
ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE
INELASTIC STORY DRIFT	Δ_0 =
DESIGN BASE SHEAR	V = 4 K

GENERAL:

STRUCTURAL DRAWINGS:

1. STRUCTURAL DRAWINGS ARE A PORTION OF THE CONTRACT DOCUMENTS AND ARE INTENDED TO BE USED WITH OTHER DRAWINGS, SPECIFICATIONS, AND DOCUMENTS ENUMERATED IN THE OWNER/CONTRACTOR AGREEMENT.
2. REVIEW AND COORDINATE THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY IDENTIFIED SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE.
3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.

CODE REQUIREMENTS AND REFERENCED STANDARDS:

1. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES:

   2018 INTERNATIONAL BUILDING CODE (IBC) AND LATEST REVISIONS REFERRED TO HERE AS "THE CODE", AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK AND THOSE CODES & STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.

2. ASTM SPECIFICATIONS AND REFERENCED STANDARDS ON THE DRAWINGS SHALL BE THE VERSION REFERENCED IN CHAPTER 35 OF THE CODE OR AS REFERENCED IN THE APPLICABLE DESIGN STANDARD.

EXISTING CONDITIONS:

1. VERIFY EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS PRIOR TO STARTING CONSTRUCTION. NOTIFY THE ARCHITECT ANY DISCREPANCIES OR INCONSISTENCIES.
2. INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, NOTIFY THE ARCHITECT IMMEDIATELY.

TEMPORARY CONDITIONS:

1. THE CONTRACT DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION, INCLUDING BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER DO NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
2. THE CONTRACT STRUCTURAL DRAWINGS SHOW THE BUILDING IN ITS FINAL INTENDED POSITION. MAKE PROVISIONS IN THE CONSTRUCTION SEQUENCING OF THE BUILDING TO TAKE INTO ACCOUNTS SHRINKAGE, CREEP, SHORTENING, THERMAL EXPANSION, ETC.
3. SPREAD OUT CONSTRUCTION MATERIALS IF PLACED ON FRAMED ROOF OR FLOOR. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

DEFERRED SUBMITTALS:

1. PER IBC SECTION 107.3.4.1, DRAWINGS AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS SHALL BEAR THE SEAL AND SIGNATURE OF THE STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN AND SHALL BE SUBMITTED TO THE ARCHITECT AND THE BUILDING DEPARTMENT FOR REVIEW PRIOR TO FABRICATION. DEFERRED SUBMITTALS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
   - STEEL JOISTS AND GIRDERS
   - METAL STAIRS, LADDERS, AND RAILINGS
   - PRE-ENGINEERED WOOD TRUSSES
   - CONTINUOUS ROD TIEDOWN SYSTEM
   - EXTERIOR COLD FORMED METAL FRAMING
   - CURTAIN WALL, WINDOW WALL, AND OTHER GLAZING SYSTEMS
   - MEP EQUIPMENT ANCHORAGE AND SEISMIC BRACING

OTHER DRAWINGS:

1. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
   A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED
   B. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS UNLESS NOTED AND/OR DETAILED ON THE STRUCTURAL DRAWINGS
   C. SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC
   D. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN
   E. FLOOR AND ROOF FINISHES
   F. MISCELLANEOUS DRAINAGE AND WATERPROOFING
   G. ALL FIREPROOFING REQUIREMENTS INCLUDING FIREPROOFING OF STRUCTURAL STEEL
   H. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS
2. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
   A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.
   B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
   C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.
   D. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.

TESTING, INSPECTIONS, AND OBSERVATIONS

STRUCTURAL OBSERVATIONS:

1. KPFF WILL PERFORM STRUCTURAL OBSERVATION BASED ON THE REQUIREMENTS OF CHAPTER 17 OF THE CODE AT THE STAGES OF CONSTRUCTION LISTED BELOW. CONTRACTOR SHALL NOTIFY ARCHITECT AND PROVIDE ACCESS FOR KPFF TO PERFORM THESE OBSERVATIONS.
2. KPFF WILL ISSUE AN OBSERVATION REPORT TO ARCHITECT FOR DISTRIBUTION TO THE OWNER AND CONTRACTOR. OBSERVATION REPORT WILL IDENTIFY WORK OBSERVED AND ANY WORK NOT IN CONFORMANCE WITH CONTRACT DOCUMENTS.
3. STRUCTURAL OBSERVATION IS TO VERIFY GENERAL CONFORMANCE WITH THE STRUCTURAL DRAWINGS. STRUCTURAL OBSERVATIONS DO NOT REPLACE THE NEED FOR SPECIAL INSPECTION AS REQUIRED BY CHAPTER 17 OF THE CODE.

STRUCTURAL OBSERVATIONS	
ITEM	**TIMING/FREQUENCY OF OBSERVATION**
A. FOUNDATIONS	PRIOR TO FIRST CONCRETE PLACEMENT, AFTER REINFORCING IS INSTALLED AND TIED.
B. CONCRETE WALLS	PRIOR TO FIRST CONCRETE WALL PLACEMENT. AFTER REINFORCING IN INSTALLED AND TIED.
C. MASONRY SHEARWALLS	DURING CONSTRUCTION OF MASONRY SHEARWALLS
D. STEEL FRAME	AFTER EACH LEVEL OF STEEL IS ERECTED, PRIOR TO APPLICATION OF FIRE PROOFING.
E. LATERAL FORCE RESISTING SYSTEM	AFTER EACH LEVEL ERECTED, PRIOR TO APPLICATION OF FINISHES.
F. CONCRETE DIAPHRAGMS	PRIOR TO FIRST CONCRETE AT EACH FLOOR LEVEL, AFTER REINFORCING STEEL IS INSTALLED
G. STEEL DECK DIAPHRAGMS	AFTER STEEL DECK IS INSTALLED AND ATTACHED TO STRUCTURE. PRIOR TO ROOFING ISTALLATION.

SPECIAL INSPECTION AND TESTING:

1. SPECIAL INSPECTION WILL BE PROVIDED BY A THIRD-PARTY TESTING AGENCY, RETAINED BY THE OWNER TO VERIFY COMPLIANCE WITH ITEMS SUMMERIZED IN THE STATEMENT OF SPECIAL INSPECTION.
2. CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE AND ACCESS FOR THE SPECIAL INSPECTOR TO PERFORM THESE INSPECTIONS.

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PROFESSIONAL ENGINEER REGISTERED 12033 STATE OF IDAHO JASON W. WILLIAMS

Project: TWIN FALLS FIRE TRAINING CENTER
420 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

Project No: 10212100013
Date: 01/20/2023
Checked By: JW
Drawn By: KPFF

Sheet Name:
GENERAL NOTES

Sheet No:
S1.01

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GENERAL STRUCTURAL NOTES

COLD-FORMED METAL FRAMING:

GENERAL

1. FABRICATE AND INSTALL COLD-FORMED METAL FRAMING ACCORDING TO THE FOLLOWING PROVISIONS:
   A. AISI S100, "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".
   B. AISI S200, "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING".
   C. WELDING OF COLD-FORMED METAL FRAMING: AWS D1.3, "SPECIFICATIONS FOR WELDING SHEET STEEL IN STRUCTURES."

PRODUCTS

1. PROVIDE GALVANIZED COLD-FORMED STEEL STUDS, TRACKS, AND FURRING CHANNELS CONFORMING WITH ICC-ES #3064P, "PRODUCT TECHNICAL GUIDE" BY THE STEEL STUD MANUFACTURERS ASSOCIATION AND THE FOLLOWING:
   A. MATERIAL SPECIFICATION:
      a. 16 GAGE AND THICKER: ASTM A653, GRADE 50 OR ASTM A1003, GRADE 50, TYPE H
      b. 18 GAGE AND THINNER: ASTM A653, GRADE 33 OR ASTM A1003, GRADE 33, TYPE H
   B. MINIMUM SECTION PROPERTIES: BASED ON ICC-ES #3064P, "PRODUCT TECHNICAL GUIDE" BY THE STEEL STUD MANUFACTURERS ASSOCIATION.
2. SHEET STEEL FOR VERTICAL DEFLECTION AND DRIFT CLIPS:
   A. MATERIAL SPECIFICATION: ASTM A653, GRADE 50 OR ASTM A1003, GRADE 50, TYPE H
   B. COATING: G90
3. FASTENERS:
   A. EXPANSION ANCHORS: HILTI KB-TZ, PER ICC ESR-1917
   B. POWER-ACTUATED FASTENERS: 0.157" HILTI X-U PER ICC ESR-2269
   C. SHEET METAL SCREWS: HILTI KWIK-FLEX OR ELCO DRIL-FLEX PER ICC ESR-3332

EXECUTION

1. INSTALL COLD-FORMED STEEL FRAMING ACCORDING TO AISI S200 AND TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

PRE-ENGINEERED METAL BUILDING

DESIGN OF THE PRE-ENGINEERED METAL BUILDING AND ANCHORAGE OF METAL BUILDING COMPONENTS TO THE FOUNDATION SHALL BE BY THE PRE-ENGINEERED METAL BUILDING SUPPLIER. DESIGN OF THE PRE-ENGINEERED METAL BUILDING AND IT'S COMPONENTS SHALL BE CONDUCTED UNDER SUPERVISION OF PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON AND DESIGNED IN ACCORDANCE WITH THE DESIGN CRITERIA SECTION OF THE GENERAL NOTES. SPECIAL INSPECTION REQUIRED BY THE AUTHORITY HAVING JURISDICTION FOR METAL BUILDING COMPONENTS SHALL BE SPECIFIED BY THE METAL BUILDING ENGINEER.

THE PRE-ENGINEERED METAL BUILDING SCOPE SHALL INCLUCE THE PRIMARY BUILDING FRAME, ROOF, AND EXTERIOR WALLS. SEE ARCHITECTURAL DRAWINGS FOR PENETRATION LOCATIONS IN EXTERIOR ENVELOPE, DIMENSIONAL INFORMATION, AND OTHER REQUIREMENTS REGARDING THE PRE-ENGINEERED METAL BUILDING SCOPE ITEMS. SEE STRUCTURAL PLAN DRAWINGS FOR ADDITIONAL PRE-ENGINEERED METAL BUILDING REQUIREMENTS.

FOUNDATION DESIGN IS BASED ON PRE-ENGINEERED COLUMN REACTIONS, ADDENDUM 1 SET PROVIDED BY NUCOR BUILDING SYSTEMS AND DATED 01/03/2023.

ROUGH CARPENTRY:

GENERAL:

1. COMPLY WITH THE REQUIREMENTS IN CHAPTER 23 OF THE CODE AND AF&PA'S WCD 1, "DETAILS FOR CONVENTIONAL WOOD FRAME CONSTRUCTION," UNLESS OTHERWISE INDICATED

PRODUCTS:

2. DIMENSIONAL LUMBER FRAMING:
   A. SPECIES, GRADE, AND MOISTURE CONTENT NOTED BELOW:

DIMENSIONAL LUMBER			
USE	SPECIES	GRADE	MOISTURE CONTENT
LUMBER 2" TO 4" THICK x 5" OR WIDER (JOISTS/RAFTERS)	DOUGLAS FIR-LARCH	#2 & BETTER	KD (15%)
LUMBER 2" TO 3" THICK x 4" TO 6" WIDE (STUDS)	DOUGLAS FIR-LARCH	#2 & BETTER	KD (15%)
LUMBER 5x5 AND GREATER (BEAMS)	DOUGLAS FIR-LARCH	#1	S-DRY (19%)
LUMBER 5x5 AND GREATER (POSTS)	DOUGLAS FIR-LARCH	#1	S-DRY (19%)

3. FIRE-RETARDANT-TREATED MATERIALS
   A. APPLICATION: TREAT ALL LUMBER IN 3 HOUR FIRE RATED WALLS AND EXTERIOR WALLS IN TYPE III CONSTRUCTION. SEE ARCHITECTURAL DRAWINGS FOR FIRE RATED WALL LOCATIONS AND DETAILS.
4. ENGINEERED WOOD PRODUCTS:
   A. STRUCTURAL COMPOSITE LUMBER MADE FROM WOOD VENEERS WITH GRAIN PRIMARILY PARALLEL TO MEMBER LENGTHS, EVALUATED AND MONITORED ACCORDING TO ASTM D 5456 AND MANUFACTURED WITH AN EXTERIOR-TYPE ADHESIVE COMPLYING WITH ASTM D 2559. PROVIDE PRODUCTS THAT CONFORM TO THE FOLLOWING MINIMUM DESIGN STRESS:

STRUCTURAL COMPOSITE LUMBER			
PRODUCT TYPE & USE	FLEXURAL STRESS, F_b	SHEAR STRESS, F_v	MODULUS OF ELASTICITY
LAMINATED VENEER LUMBER (LVL)	2,600 psi	285 psi	2.0 x 10^6 psi
PARALLEL STRAND LUMBER (PSL)			
BEAM	2,900 psi	290 psi	2.0 x 10^6 psi
COLUMN	2,400 psi	190 psi	1.8 x 10^6 psi
LAMINATED STRAND LUMBER (LSL)			
BEAM	2,325 psi	310 psi	1.55 x 10^6 psi
COLUMN	1,700 psi	425 psi	1.3 x 10^6 psi

5. FASTENERS:
   A. WHERE ROUGH CARPENTRY IS EXPOSED TO WEATHER, IN GROUND CONTACT, PRESERVATIVE TREATED, FIRE RETARDANT TREATED, OR IN AREA OF HIGH RELATIVE HUMIDITY, PROVIDE FASTENERS WITH HOT-DIP ZINC COATING COMPLYING WITH ASTM A 153.
   B. NAILS: ASTM F1667, COMMON TYPE.
6. WOOD CONNECTORS:
   A. PROVIDED BASIS OF DESIGN HANGERS, STRAPS, TIES, HOLD DOWNS, ETC, AS INDICATED ON THE DRAWINGS.
   B. WHERE CONNECTORS ARE IN EXPOSED, EXTERIOR APPLICATIONS OR IN CONTACT WITH PRESERVATIVE TREATED LUMBER, PROVIDE HOT-DIP GALVANIZED OR STAINLESS STEEL CONNECTORS.

EXECUTION:

1. WHERE POSTS OR MULTIPLE STUDS UNDER BEAMS OR HEADERS ARE CALLED FOR ON DRAWINGS THOSE POSTS OR MULTIPLE STUDS SHALL BE CARRIED TO THE FOUNDATLON/PODIUM LEVEL U.N.O.
2. JOIST BLOCKING AND BRIDGING:
   A. PROVIDE FULL DEPTH SOLID BLOCKING BETWEEN JOISTS OVER SUPPORT AND BELOW PARTITION WALLS.
   B. PROVIDE FULL DEPTH BRIDGING AT 8'-0" O.C. MAX, NOT MORE THAN 8'-0" FROM SUPPORT.
3. PROVIDE DOUBLE JOISTS UNDER NON-BEARING WALLS RUNNING PARALLEL TO JOISTS.
4. PROVIDE REQUIRED FIRE STOPPING, BACKING FOR INTERIOR FINISHES, NONBEARING WALLS, AND OTHER NON-STRUCTURAL FRAMING THAT ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
5. SECURELY ATTACH ROUGH CARPENTRY WORK TO SUBSTRATE BY ANCHORING AND FASTENING AS INDICATED, COMPLYING WITH TABLE 2304.10.1 OF THE CODE AND THE ICC-ES REPORT FOR THE FASTENER.
6. INSTALL WOOD CONNECTORS PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND THE ICC-ES REPORT.

SHEATHING:

GENERAL:

1. SHEATHING MATERIAL: STAMPED WITH APA TRADEMARK

PRODUCTS:

1. APA RATED SHEATHING
   A. PLYWOOD SHEATHING: EITHER DOC PS1 OR DOC PS2, EXTERIOR STRUCTURAL 1 SHEATHING WITH SPAN RATING AN THICKNESS AS INDICATED BELOW
   B. ORIENTED STRAND BOARD (OSB) SHEATHING: DOC PS2, EXPOSURE 1, STRUCTURAL 1 SHEATHING WITH SPAN RATING AND THICKNESS INDICATED BELOW

SHEATHING SCHEDULE			
ELEMENT	EDGE CONFIGURATION	SPAN RATING	NOMINAL THICKNESS
ROOF SHEATHING	SQUARE	24/16	15/32"
FLOOR SHEATHING	T & G	32/16	23/32"
WALL SHEATHING	SQUARE	16/0	7/16"

EXECUTION:

1. ROOF SHEATHING: INSTALL WITH FACE GRAIN OR STRENGTH AXIS PERPENDICULAR TO SUPPORTS. STAGGER END JOINTS. NAIL SHEATHING TO FRAMING AS INDICATED
2. FLOOR SHEATHING: INSTALL WITH FACE GRAIN OR STRENGTH AXIS PERPENDICULAR TO SUPPORTS. STAGGER END JOINTS. GLUE AND NAIL SHEATHING TO FRAMING AS INDICATED
3. WALL SHEATHING: INSTALL SHEATHING VERTICALLY TO THE WALL. NAIL SHEATHING TO WALL FRAMING AS INDICATED.
4. NAILING PATERN
   A. SEE SHEAR WALL AND DIAPHRAGM NAILING SCHEDULES FOR BLOCKING AND NAILING REQUIREMENTS AT SHEAR WALLS AND DIAPHRAGMS.
   B. 10d AT 6" o.c. AT ALL SUPPORTED EDGES AND OVER SHEAR WALLS AND 10d AT 12" o.c. AT ALL INTERMEDIATE SUPPORTS, U.N.O. SEE PLANS.

GLUED LAMINATED BEAMS:

1. GLUED LAMINATED MEMBERS SHALL BE MANUFACTURED ACCORDING TO THE AITC 117 "THE STANDARD SPECIFICATIONS FOR STRUCTURAL GLUED LAMINATED DOUGLAS FIR TIMBER." LATEST EDITION. ADHESIVE SHALL BE FOR WET CONDITION OF SERVICE AND AN AITC CERTIFICATE OF INSPECTION IS REQUIRED.
2. GLUED LAMINATED BEAMS SHALL PROVIDE STRESS VALUES THAT MEET OR EXCEED THE FOLLOWING :

   BENDING FB (BOTTOM FIBERS)..... 2400 PSI
   BENDING FB (TOP FIBERS) - SINGLE SPAN..... 1850 PSI
   BENDING FB (TOP FIBERS) - MULTIPLE SPANS OR CANTILEVERS..... 2400 PSI
   HORIZONTAL SHEAR FV..... 265 PSI
   MODULUS OF ELASTICITY..... 1800 KSI.
   COMPRESSION PERPENDICULAR TO GRAIN..... 650 PSI

3. APPEARANCE GRADE SHALL BE:
   INDUSTRIAL, WHEN CONCEALED FROM VIEW. ARCHITECTURAL, WHEN EXPOSED TO VIEW.
4. MANUFACTURER SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
5. WHERE GLUED LAMINATED BEAMS ARE USED FOR FIRE RATING, PROVIDE (2) ADDITIONAL OUTER LAMINATIONS TOP AND BOTTOM.

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PROFESSIONAL ENGINEER REGISTERED 12033 STATE OF IDAHO JUSTIN W. WILLIAMS

Project: TWIN FALLS FIRE TRAINING CENTER
420 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

Project No: 10212100013
Date: 01/20/2023
Checked By: JW
Drawn By: KPFF

Sheet Name:
GENERAL NOTES

Sheet No:
S1.02

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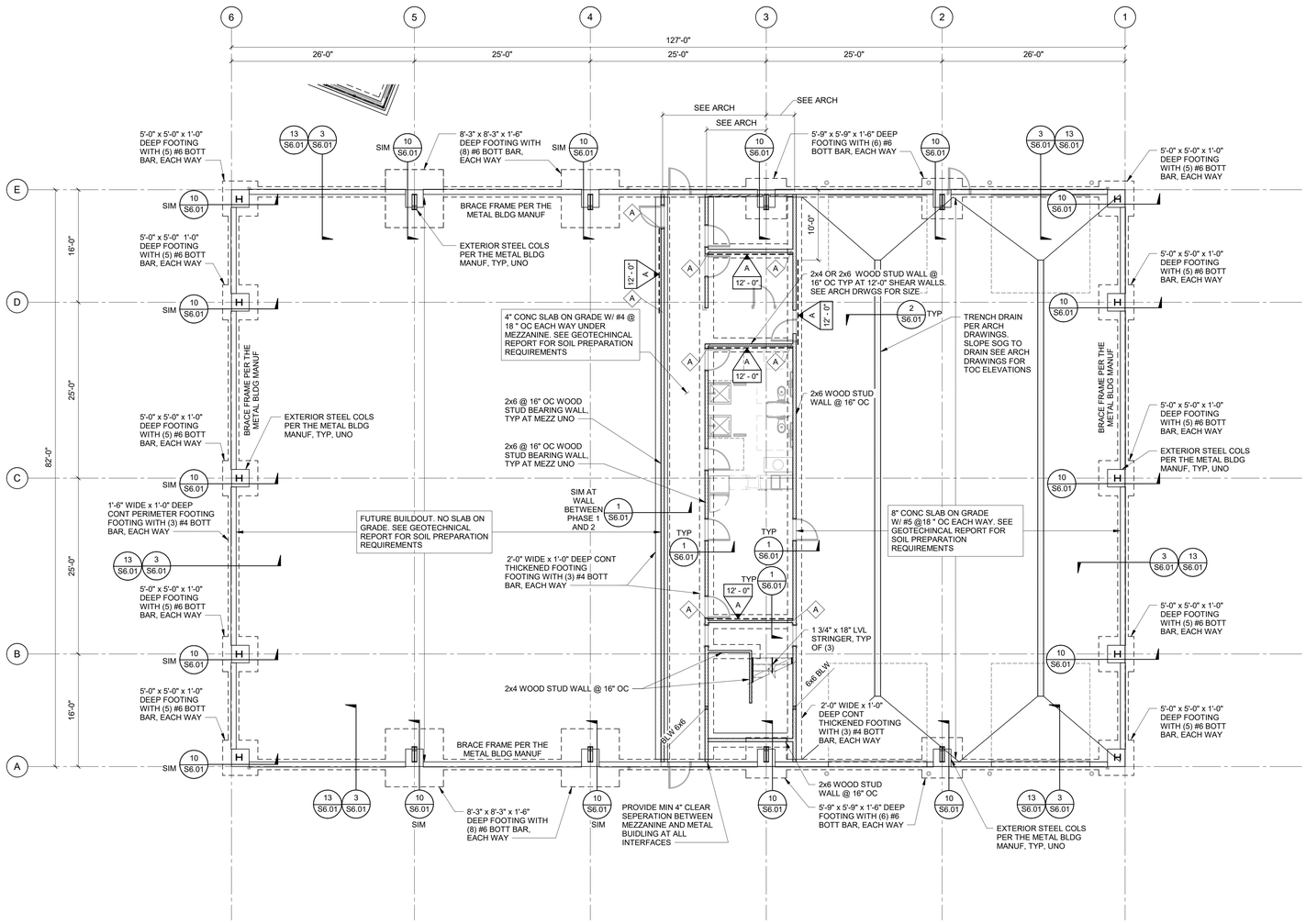
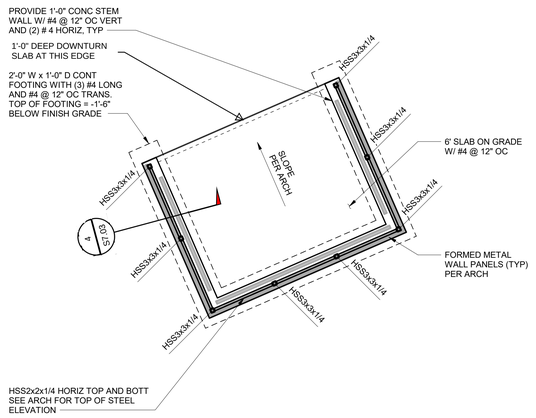


1 S2.01 LEVEL 1 - COMPOSITE FLOOR PLAN

1/8" = 1'-0"

PLAN NORTH



2 S2.01 TRASH ENCLOSURE

1/4" = 1'-0"

SHEET NOTES:

1. SEE GENERAL NOTES SHEET,S1.01, FOR MORE INFORMATION.
2. SEE METAL BUILDING DRAWINGS FOR ADDITIONAL DETAILS AT BRACED FRAMES, STEEL FRAME MEMBERS AND EXTERIOR WALL CONNECTION DETAILS.
3. SEE CIVIL DRAWINGS FOR SITE ELEVATIONS.
4. SEE ARCHITECTURAL DRAWINGS FOR TOP OF SLAB ELEVATIONS AND WALL LOCATIONS.
5. SEE GEOTECHNICAL REPORT FOR ALL EXCAVATION AND SOIL PREPARATION REQUIREMENTS. CURRENT BASIS OF DESIGN BEARING PRESSURE = 1500 PSF.
6. ALL TOP OF PERIMETER FOOTINGS TO BE -1'-0" BELOW THE FINISH FLOOR ELEVATION, TYP, UNO. TOP OF FOOTINGS AT EXTERIOR CONTINUOUS FOOTINGS PER 3/S6.01 AND 13/S6.01 SHALL BE -1'-6" BELOW FINISH FLOOR ELEVATION, TYP, UNO.
7. PROVIDE 3/4" DIAM. GR. 36, F1554 ANCHOR BOLTS AT ALL STEEL METAL BUILDING COLUMNS.
8. 2' - 8" / A — INDICATES SHEAR WALL PER DETAILS 1/S7.01 AND 3/S7.01. A = SHEAR WALL TYPE. X'-X" = SHEAR WALL LEGNTH.
9. INDICATES WOOD STUD WALL PER DETAIL 1/S7.01

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PROFESSIONAL ENGINEER
12033
STATE OF IDAHO
JOSEPH W. WILLIAMS

Project: TWIN FALLS FIRE TRAINING CENTER

420 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

PERMIT SET - 01.20.2023

Project No:	1021210013
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LEVEL 1 - COMPOSITE FLOOR PLAN

Sheet No:

S2.01

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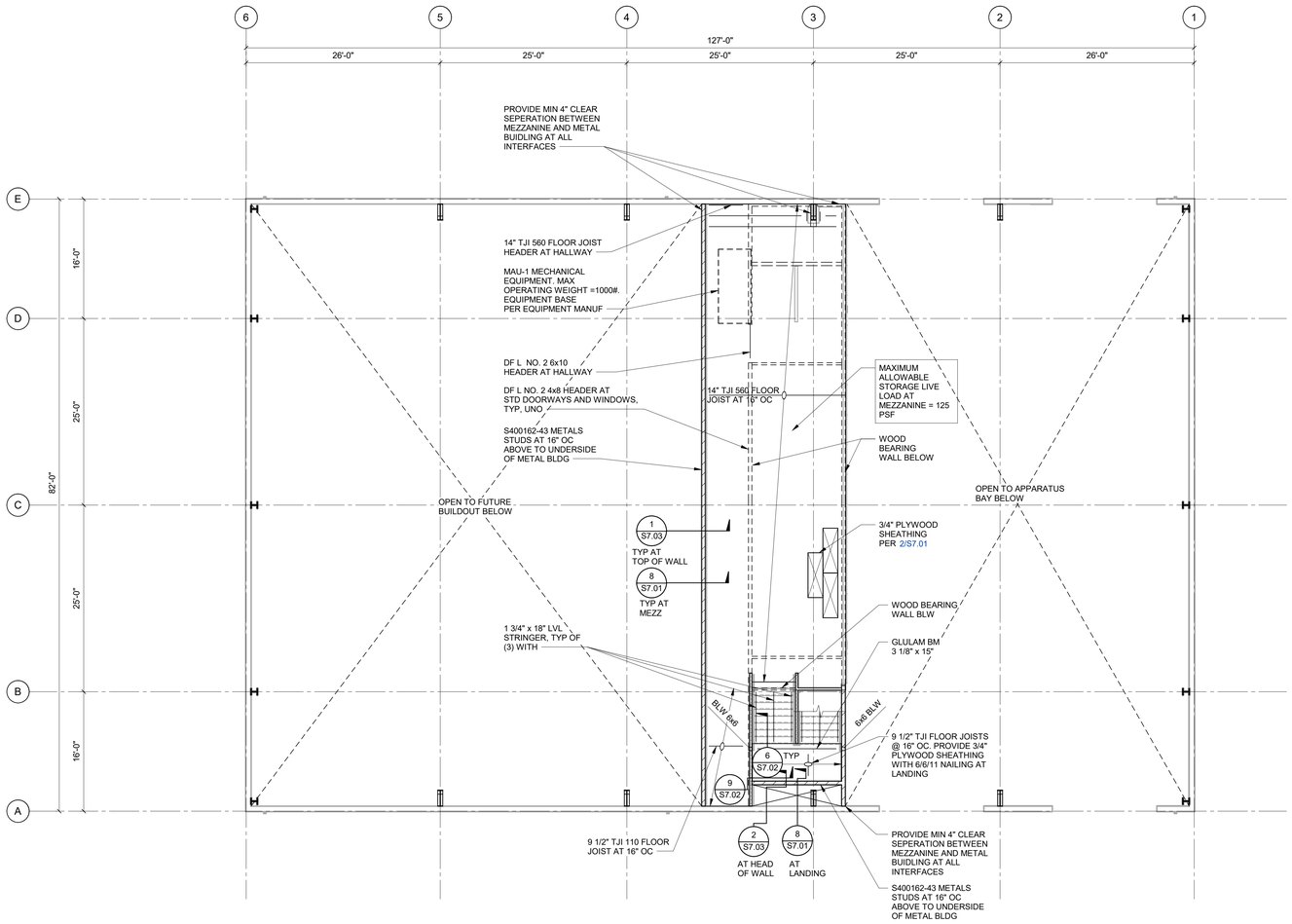

1 S2.02 LEVEL 2 - COMPOSITE FLOOR PLAN

1/8" = 1'-0"

PLAN NORTH

SHEET NOTES:

1. SEE GENERAL NOTES SHEET,S1.01, FOR MORE INFORMATION.
2. SEE METAL BUILDING DRAWINGS FOR ADDITIONAL DETAILS AT BRACED FRAMES, STEEL FRAME MEMBERS AND EXTERIOR WALL CONNECTION DETAILS.
3. SEE CIVIL DRAWINGS FOR SITE ELEVATIONS.
4. SEE ARCHITECTURAL DRAWINGS FOR TOP OF SLAB ELEVATIONS AND WALL LOCATIONS.
5. SEE ARCHITECTURAL DRAWINGS FOR TOP OF MEZZANINE ELEVATION.

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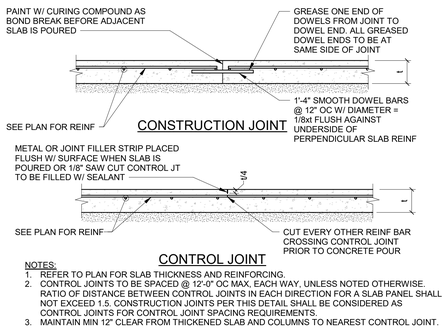
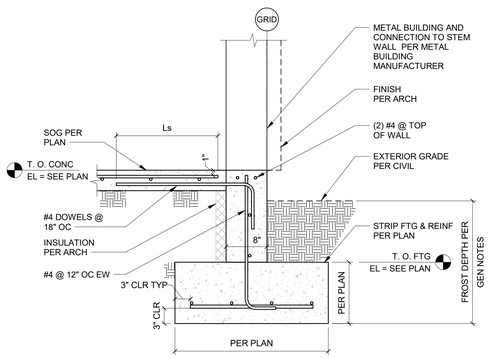


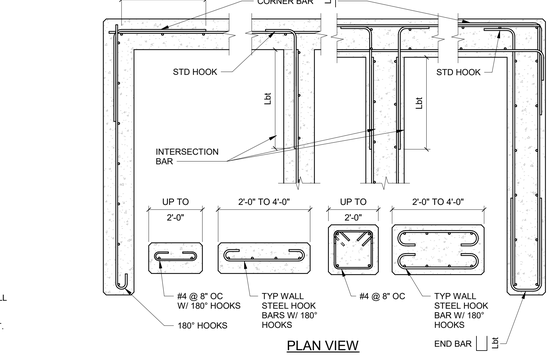
12 S6.01 TYP SOG CONTROL & CONSTRUCTION JOINTS

NO SCALE



13 S6.01 TYPICAL STEM WALL

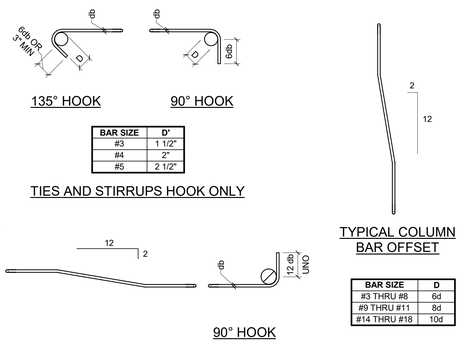
1" = 1'-0"



PLAN VIEW

8 S6.01 TYP CONCRETE WALL DETAILS

NO SCALE

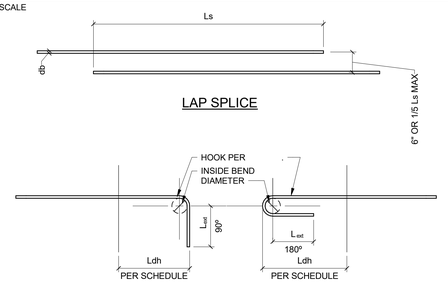


BAR SIZE	D'
#3	1 1/2"
#4	2"
#5	2 1/2"

BAR SIZE	D
#3 THRU #8	6d
#9 THRU #11	8d
#14 THRU #18	10d

5 S6.01 REINFORCING BAR BENDING DETAIL

NO SCALE



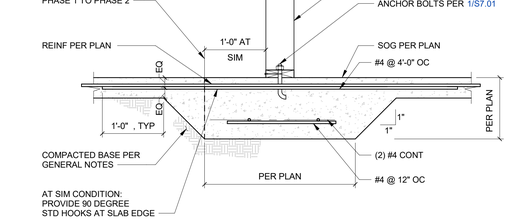
BAR SIZE	TOP BARS		OTHERS BARS		L_{dh}	L_{dt}
	L_d	L_s	L_d	L_s		
#4	25"	32"	19"	25"	9"	8"
#5	31"	40"	24"	31"	12"	10"
#6	37"	48"	28"	37"	14"	12"
#7	54"	70"	42"	54"	17"	14"
#8	62"	80"	47"	62"	19"	16"
#9	70"	90"	54"	70"	21"	18"
#10	78"	102"	60"	78"	24"	20"
#11	87"	113"	67"	87"	27"	22"

NOTES:
1. DEVELOPMENT LENGTHS ARE FOR 4 ksi CONCRETE
2. USE THE LENGTHS IN THIS SCHEDULE, UNLESS NOTED OTHERWISE.
3. A TOP BAR IS A HORIZONTAL BAR WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW IT.

ABBREVIATIONS
d_b = BAR DIAMETER
L_d = DEVELOPMENT LENGTH
L_s = CLASS B LAP SPLICE LENGTH
L_{dh} = HOOKED BAR DEVELOPMENT LENGTH
L_{dt} = TERMINATOR DEVELOPMENT LENGTH

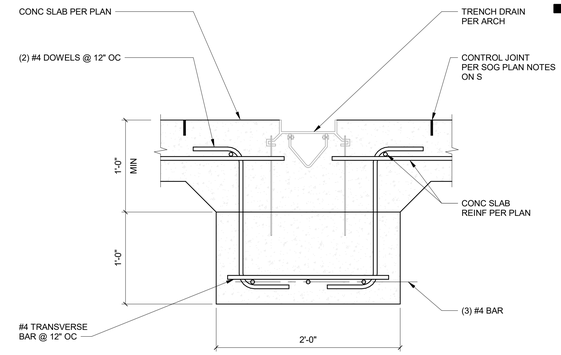
6 S6.01 DEVELOPMENT AND SPLICE LENGTH

NO SCALE



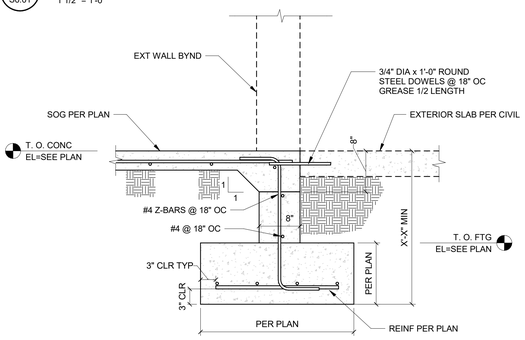
1 S6.01 INTERIOR STRIP FTG @ BEARING WALLS

1" = 1'-0"



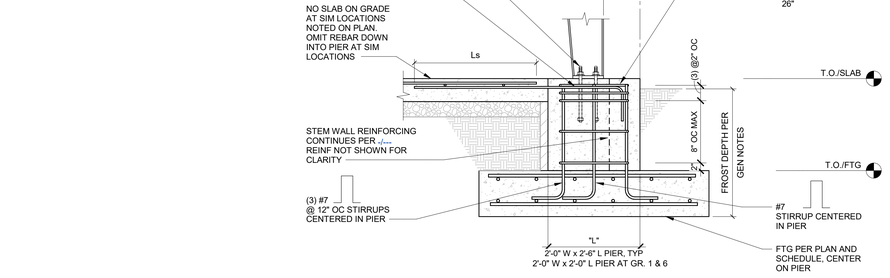
2 S6.01 TRENCH DRAIN DETAIL

1 1/2" = 1'-0"



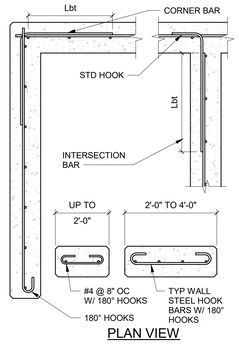
3 S6.01 STEM WALL AT ENTRY

1" = 1'-0"



10 S6.01 TYPICAL PIER FOOTING

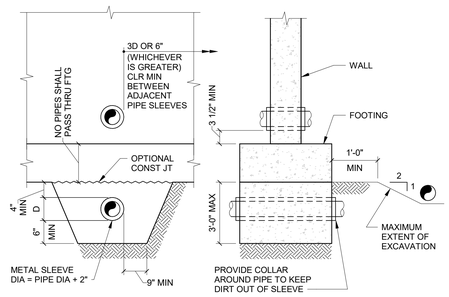
3/4" = 1'-0"



PLAN VIEW

11 S6.01 TYP CONCRETE WALL DETAILS

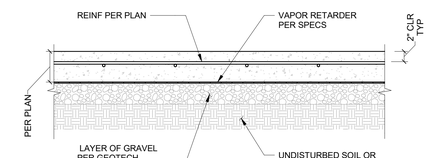
NO SCALE



NOTES:
1. STEP FOOTING PER TYPICAL STEPPED FOOTING DETAIL AS REQUIRED TO SATISFY THESE CONDITIONS.
2. GENERAL CONTRACTOR TO COORDINATE EXACT DEPTH AND LOCATION OF PIPE.
3. "D" SHALL NOT EXCEED 8".

7 S6.01 TYP DETAIL OF PIPE AT FOOTINGS

NO SCALE



NOTES:
1. REFER TO GEOTECH REPORT AND PROJECT SPECIFICATIONS FOR SUBGRADE PREPARATION REQUIREMENTS.
2. SEE PROJECT SPECIFICATIONS FOR VAPOR RETARDER INFORMATION.
3. INSTALL VAPOR RETARDER PER MANUFACTURER RECOMMENDATIONS.

4 S6.01 SLAB ON GRADE

NO SCALE

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Project: TWIN FALLS FIRE TRAINING CENTER
420 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

PERMIT SET - 01.20.2023

Project No:	10212100013
Date:	01/20/2023
Checked By:	JW
Drawn By:	KPFF

Sheet Name:
CONCRETE DETAILS

Sheet No:
S6.01

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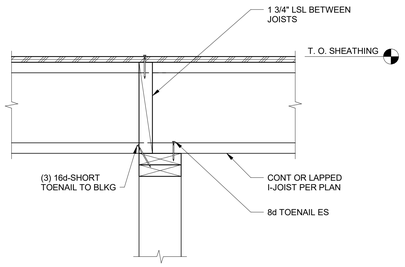
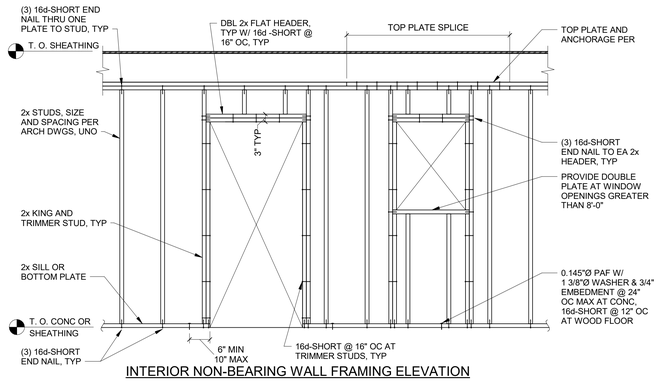
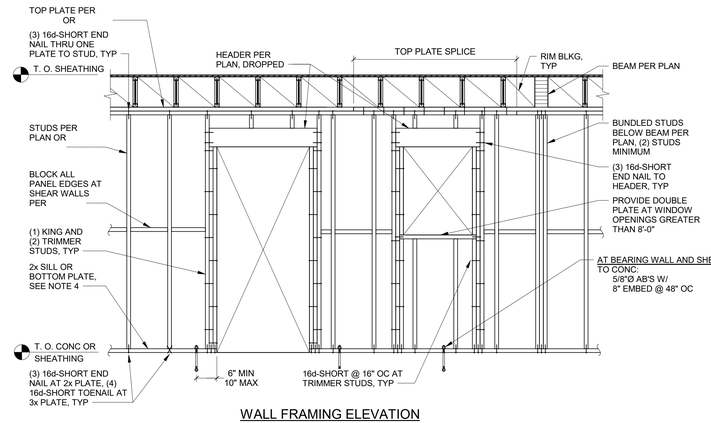


TYP INTERIOR BEARING WALL - FRAMING PERPENDICULAR

6 / S7.01 — NO SCALE



INTERIOR NON-BEARING WALL FRAMING ELEVATION



WALL FRAMING ELEVATION

NOTES (APPLIES TO ALL ELEVATIONS):
1. FRAMING NAILING NOT SHOWN SHALL BE AS INDICATED IN TABLE 2304.10.1.
2. SILL PLATES TO BE PRESERVATIVE-TREATED WHERE IN CONTACT WITH CONCRETE.

TYP STUD WALL FRAMING ELEVATION

1 / S7.01 — NO SCALE

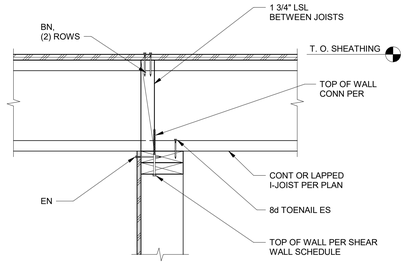
HOLD-DOWN AND COMPRESSION STUD SCHEDULE

TYPE MARK	HOLD-DOWN	THREADED ROD SIZE	WASHER PL SIZE	MIN ROD EMBEDMENT INTO FOOTING	COMPRESSION STUDS, SEE NOTE 1
A	HDU2-SDS2.5	5/8"	1/2x2-1/2x0'-2 1/2"	8"	(2) 2x

NOTES:
1. FASTEN COMPRESSION STUDS TOGETHER WITH 10D NAILS AT 12' OC STAGGERED.
2. MATCH COMPRESSION STUD WIDTH TO WALL THICKNESS.

HOLD-DOWN AND COMPRESSION STUD SCHEDULE

7 / S7.01 — NO SCALE



TYP INTERIOR SHEAR WALL - FRAMING PERPENDICULAR (1-SIDED)

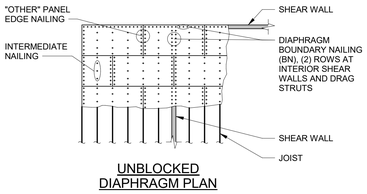
4 / S7.01 — NO SCALE

ROOF/FLOOR DIAPHRAGM NAILING SCHEDULE

ALL VALUES ARE BASED ON 2018 IBC AND SDPWS-18 FOR STRUCTURAL PANEL DIAPHRAGMS WITH FRAMING OF DOUGLAS FIR-LARCH

LOCATION	SHEATING MATERIAL	EDGE CONFIGURATION	SPAN RATING	NOMINAL THICKNESS	BLOCKING REQUIRED	MIN FRAMING AND BLKG WIDTH	NUMBER OF LINES OF FASTENERS	FASTENER SPACING				SEISMIC ALLOWABLE SHEAR (LBS/FT)
								DIAPHRAGM BOUNDARIES, SEE NOTE 3	CONTINUOUS PANEL EDGES	OTHER PANEL EDGES	INTERMEDIATE FRAMING MEMBERS	
FLOOR	SHEATING	T & G	48/24	3/4	NO	2x	1	6" OC	-	6" OC	12" OC	215

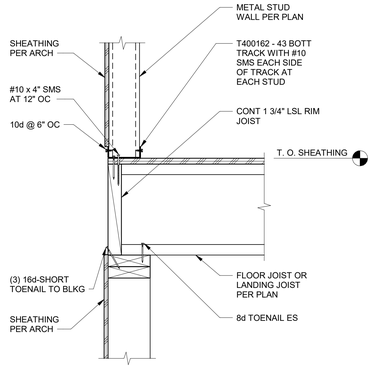
NOTES:
1. SHEATHING NAIL SIZE SHALL BE 0.148"Ø (10d) WITH 1-1/2" MINIMUM PENETRATION INTO FRAMING.
2. ORIENT SHEATHING PERPENDICULAR TO FLOOR/ROOF FRAMING. STAGGER SHEATHING.
3. DIAPHRAGM BOUNDARIES INCLUDE DIAPHRAGM PERIMETER, SHEAR WALLS, AND DRAG STRUTS INDICATED ON PLAN.



UNBLOCKED DIAPHRAGM PLAN

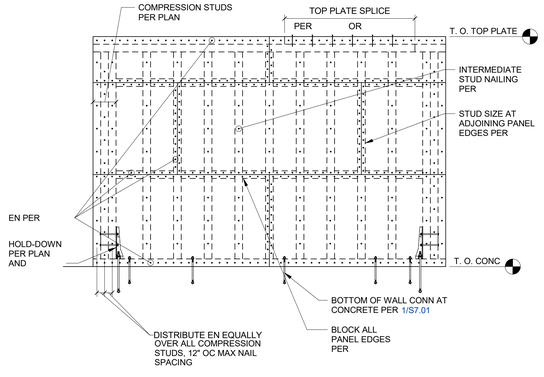
ROOF/FLOOR DIAPHRAGM NAILING SCHEDULE

2 / S7.01 — NO SCALE



WOOD WALL FRAMING INTERFACE WITH RATED PARTITION

8 / S7.01 — NO SCALE



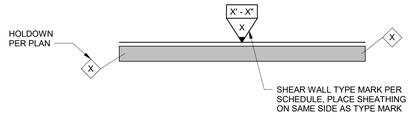
TYP SHEAR WALL NAILING

5 / S7.01 — NO SCALE

WOOD- FRAMED SHEAR WALL SCHEDULE

SW TYPE	WALL SHEATHING APA RATED	EDGE NAILING	MINIMUM RIM BOARD THICKNESS	FRAMING AT PANEL EDGES	BLOCKING AT ALL PANEL EDGES	ANCHOR BOLT TO CONCRETE FOUNDATION OR WELDED THREADED ROD TO STEEL BEAM	SILL PLATE AT FOUNDATION	TOP OF WALL CONNECTION	ALLOWABLE SHEAR WALL CAPACITY (PLF)	
									SEISMIC	WIND
A	15/32"	10d @ 6" OC	1 3/4"	2x	2x	1/S7.01	P.T. 2x	SDS25600 @ 16" OC	310	392.5

NOTES:
1. SHEATHING NAIL SIZE SHALL BE 0.148"Ø WITH 1-1/2" MINIMUM PENETRATION INTO FRAMING.
2. SHEATING THICKNESS SHALL BE 15/32" WITH A SPAN OF16/0.
3. INSTALL SHEATHING PANELS EITHER HORIZONTALLY OR VERTICALLY.
4. WHERE NAIL SPACING IS LESS THAN 4" OC, STAGGER EDGE NAILING 1/2".
5. REFER TO 5/S7.01 FOR SHEAR WALL NAILING DETAIL.
6. PRESSURE TREATED SILL PLATE SHALL BE 3x FRAMING.
7. USE NEAR EDGE SPACING WHEN ANCHOR BOLTS ARE WITHIN 12" OF A SLAB EDGE OR SHAFT OPENING, OR ARE PLACED IN A STEM WALL.
8. WALL BOUNDARIES INCLUDE TOP PLATE, BOTTOM PLATE, SILL PLATE, AND COMPRESSION STUDS, UNO.
9. FASTENER SPACING AT INTERMEDIATE MEMBERS SHALL BE 6" OC WHERE STUD SPACING IS 24" OC AND AT 12" OC WHERE STUDS ARE SPACED 16" OC OR LESS.



SHEAR WALL LEGEND

WOOD SHEAR WALL SCHEDULE

3 / S7.01 — NO SCALE

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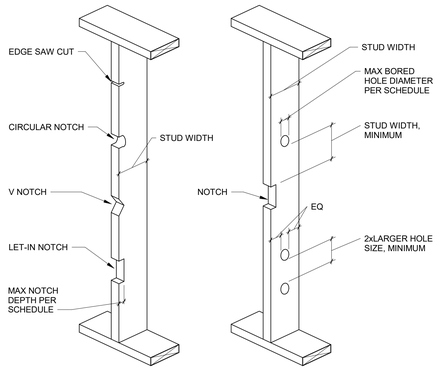
420 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

PERMIT SET - 01.20.2023

Project No: 10212100013
Date: 01/20/2023
Checked By: JW
Drawn By: KPFF

Sheet Name: WOOD FRAMING DETAILS

Sheet No: S7.01



NOTCHES IN STUDS BORED HOLES IN STUDS

5 S7.02 TYP WALL STUD PENETRATIONS

NO SCALE

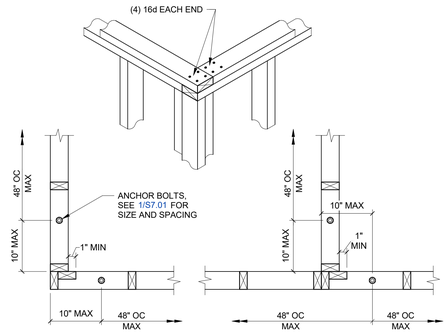
EXTERIOR/BEARING/SHEAR WALL STUD PENETRATION

STUD SIZE	MAX NOTCH DEPTH	MAX BORED HOLE DIAMETER
2x4 & 3x4	7/8"	1-3/8"Ø
2x6 & 3x6	1-3/8"	2-1/8"Ø
2x8 & 3x8	1-3/4"	2-7/8"Ø

NON-BEARING WALL STUD PENETRATION

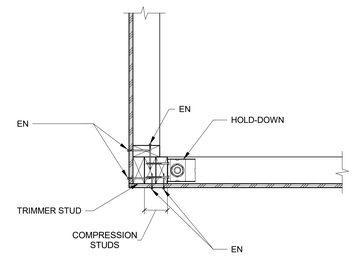
STUD SIZE	MAX NOTCH DEPTH	MAX BORED HOLE DIAMETER
2x4 & 3x4	1-3/8"	2"Ø
2x6 & 3x6	2-1/8"	3-1/4"Ø
2x8 & 3x8	2-7/8"	4-1/4"Ø

NOTES:
1. DO NOT NOTCH OR BORE HOLES IN MORE THAN TWO ADJACENT STUDS WITHOUT APPROVAL BY STRUCTURAL ENGINEER.
2. NOTCHES AND BORED HOLES ARE NOT PERMITTED IN SHEAR WALL COMPRESSION STUDS.

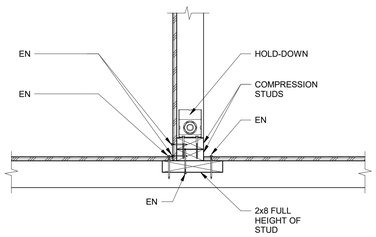


1 S7.02 TYP STUD WALL CORNER

NO SCALE



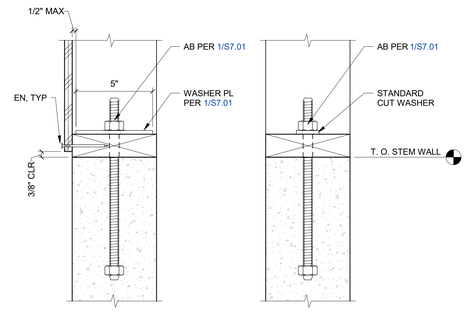
CORNER



TEE INTERSECTION

6 S7.02 TYP COMPRESSION STUD INTERSECTION

NO SCALE

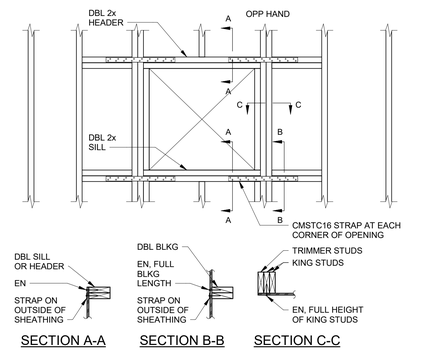


SHEAR WALL BEARING WALL

NOTES:
1. CENTER ANCHOR BOLTS ON THE SILL PLATE.

2 S7.02 TYP ANCHOR BOLTS AT STEM WALL

NO SCALE

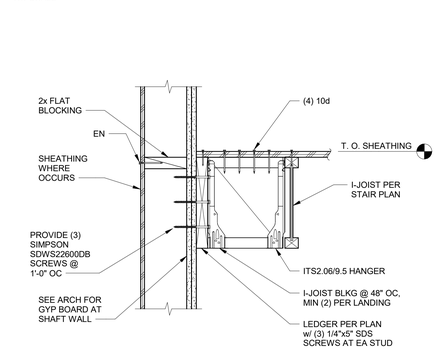


SECTION A-A SECTION B-B SECTION C-C

NOTES:
1. WALL SHEATHING NOT SHOWN FOR CLARITY.

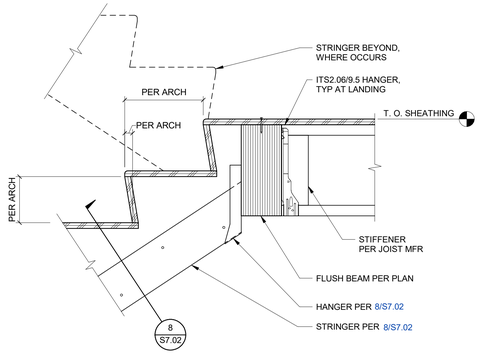
3 S7.02 STRAPS AROUND SHEAR WALL OPENINGS

NO SCALE



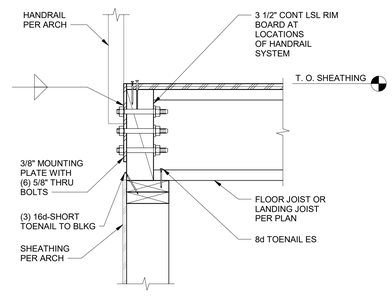
9 S7.02 INTERMEDIATE STAIR LANDING - JOIST PARALLEL TO SHAFT WALL

1 1/2" = 1'-0"



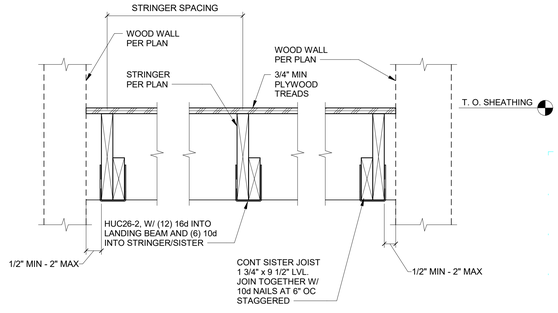
7 S7.02 STRINGER CONN TO LANDING

NO SCALE



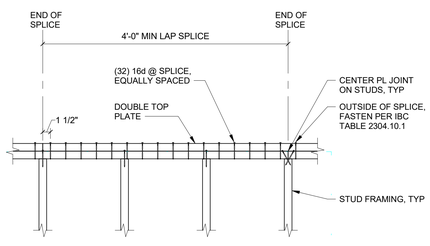
10 S7.02 WOOD WALL FRAMING INTERFACE WITH RATED PARTITION

NO SCALE



8 S7.02 STRINGER SECTION

NO SCALE



NOTES:
1. PROVIDE CONTINUOUS TOP PLATES WITHOUT JOINTS WHERE WALLS ARE 12'-0" OR LESS IN LENGTH.

4 S7.02 TYP TOP PLATE SPLICE

NO SCALE

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Project No:	10212100013
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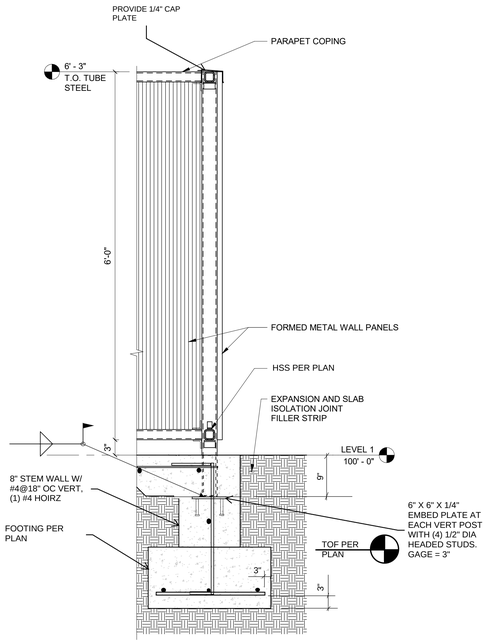
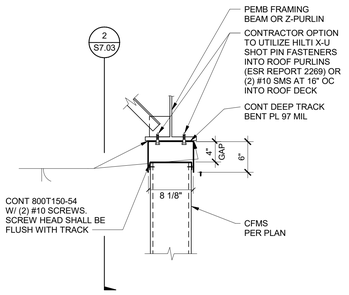
Sheet Name:
WOOD FRAMING DETAILS

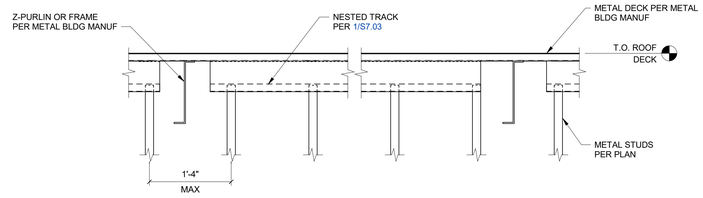
Sheet No:
S7.02



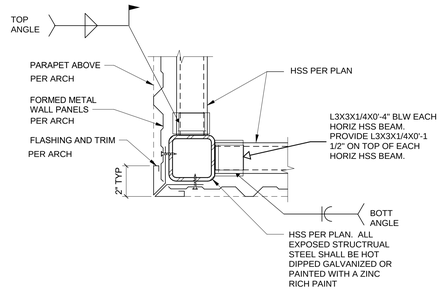
4 S7.03 TRASH ENCLOSURE SECTION DETAIL
1" = 1'-0"



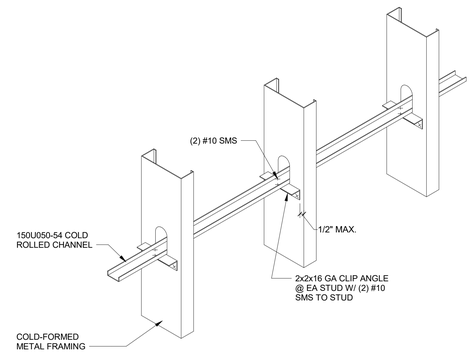
1 S7.03 NESTED DEFLECTION TRACK AT TOP OF INTERIOR DEMISING WALL
1" = 1'-0"



2 S7.03 HEAD OF WALL DETAIL AT METAL BUILDING FRAMING
1" = 1'-0"



5 S7.03 PLAN DETAIL @ METAL CORNER TRIM
3" = 1'-0"



3 S7.03 TYP COLD-FORMED STUD BRIDGING
NO SCALE

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Drawn By:	KPFF

Sheet Name:
TYPICAL COLD FORMED STEEL DETAILS

Sheet No:
S7.03

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GENERAL LEGEND
(Not all symbols listed below are used on these drawings)

ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION
	X / X-X	SECTION DESIGNATION SECTION CUT ON THIS SHEET			CAP END OF PIPE
				SLOPE	PITCH DOWN IN DIRECTION OF ARROW
					PIPE ANCHOR
	X / X-X	VIEW REFERENCE DESIGNATION VIEW REFERENCE ON THIS SHEET			PIPE ALIGNMENT GUIDE
					UNION OR FLANGE
	X / 1-2-3	EQUIPMENT UNIT IDENTIFICATION EQUIPMENT UNIT NUMBER (UNIT SERVED - FLOOR - SEQUENCE #)			CONCENTRIC PIPE REDUCER
					ECCENTRIC PIPE REDUCER
	A / 10 / 250	DIFFUSER IDENTIFICATION DIFFUSER NECK DIAMETER DIFFUSER CFM	PRV		PRESSURE REDUCING VALVE
			PTRV		PRESSURE AND/OR TEMPERATURE RELIEF VALVE
					ISOLATION VALVE (RE: SPEC FOR TYPE)
	B / 24X24 / 9999	LINEAR DIFFUSER IDENTIFICATION LINEAR DIFFUSER NECK DIAMETER LINEAR DIFFUSER LENGTH LINEAR DIFFUSER CFM			VERTICAL PIPE VALVE
			CV		CHECK VALVE
	Z-48" / FTR / 3'-6" / 2R	FINNED TUBE RADIATOR ACTIVE ELEMENT LENGTH EQUIPMENT UNIT IDENTIFICATION EQUIPMENT UNIT NUMBER RADIATOR ENCLOSURE LENGTH (OR W-W=WALL-TO-WALL)			SOLENOID / MOTORIZED VALVE
					SOLENOID VALVE
					HOSE END DRAIN VALVE
	2	KEY NOTE REFERENCE	P/T		PRESSURE / TEMPERATURE TAP
	1	KITCHEN/OWNER/MEDICAL EQUIPMENT REFERENCE			STRAINER
		TYPICAL ROOM REFERENCE (TOP = RM #, BOTTOM = FLR)			STRAINER W/ BLOWDOWN
		POINT OF CONNECTION, NEW TO EXISTING			BRAIDED FLEXIBLE PIPE CONNECTOR
		POINT OF DISCONNECTION, DEMO			DOUBLE-BOWL FLEXIBLE PIPE CONNECTOR
		DIRECTION OF FLOW IN PIPE			THERMOMETER
		DUCTWORK, PIPING AND EQUIPMENT TO BE REMOVED			PRESSURE GAUGE
(E)		EXISTING			SIGHT GLASS
(N)		NEW	C.A.P.		CEILING ACCESS PANEL
(R)		RELOCATED			PUMP
(F)		FUTURE	TB		THRUST BLOCK
DIA	Ø	DIAMETER	MAV		MANUAL AIR VENT
WAD		WALL ACCESS DOOR	AAV		AUTOMATIC AIR VENT
NIC		NOT IN CONTRACT			
AFF		ABOVE FINISHED FLOOR			
GC		GENERAL CONTRACTOR			
MC		MECHANICAL CONTRACTOR			
EC		ELECTRICAL CONTRACTOR			
UNO		UNLESS NOTED OTHERWISE			
C		COMMON			
NC		NORMALLY CLOSED			
NO		NORMALLY OPEN			

DOUBLE/SINGLE LINE DUCT LEGEND
(Not all symbols listed below are used on these drawings)

SINGLE LINE	DOUBLE LINE	SINGLE LINE	DOUBLE LINE	SINGLE LINE	DOUBLE LINE	SINGLE LINE	DOUBLE LINE
45° TEE (ROUND)		90° TEE (RECTANGULAR) SEE DETAIL		FLEX DUCT RIGID — FLEX — RIGID — FLEX		90° RADIUS ELBOW	
45° TEE (RECTANGULAR)		90° TEE (ROUND) CONICAL TEE		MANUAL VOLUME DAMPER		90° ELBOW	
DUCT SPLIT		GRD RUNOUT TAKEOFF WITH VOLUME DAMPER RND SEC		REDUCER 20 8		45° ELBOW	

HVAC LEGEND
(Not all symbols listed below are used on these drawings)

ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION
HWS	—HWS—	HEATING WATER SUPPLY PIPING			SUPPLY DUCT UP / DOWN
HWR	—HWR—	HEATING WATER RETURN PIPING			RETURN DUCT UP / DOWN
HTWS	—HTWS—	HIGH TEMPERATURE HEATING WATER SUPPLY PIPING			EXHAUST DUCT UP / DOWN
HTWR	—HTWR—	HIGH TEMPERATURE HEATING WATER RETURN PIPING			ROUND DUCT UP / ROUND DUCT DOWN
CHWS	—CHWS—	CHILLED WATER SUPPLY PIPING	48F12		FLAT OVAL DUCTWORK
CHWR	—CHWR—	CHILLED WATER RETURN PIPING			FLEXIBLE DUCT CONNECTION
D	—D—	COOLING COIL DRAIN PAN PIPING	BDD		BACKDRAFT DAMPER
CWS	—CWS—	CONDENSER WATER SUPPLY PIPING	TCD		TEMP. CONTROL DAMPER-OPPOSED BLADE
CWR	—CWR—	CONDENSER WATER RETURN PIPING	TCD		TEMP. CONTROL DAMPER- PARALLEL BLADE
GHWS	—GHWS—	GLYCOL HEATING WATER SUPPLY PIPING	MVD		MANUAL VOLUME DAMPER
GHWR	—GHWR—	GLYCOL HEATING WATER RETURN PIPING	MD		DUCT MOTORIZED DAMPER
PCWS	—PCWS—	PROCESS CHILLED WATER SUPPLY PIPING			CONICAL FITTING WITH MVD
PCWR	—PCWR—	PROCESS CHILLED WATER RETURN PIPING			SPIN-IN FITTING WITH MVD
LPS	—LPS—	LOW PRESSURE STEAM SUPPLY PIPING (0 - 15#)	FD		DUCT FIRE DAMPER
LPC	—LPC—	LOW PRESSURE CONDENSATE RETURN PIPING	FSD		COMBINATION DUCT FIRE/SMOKE DAMPER
MPS	—MPS—	MEDIUM PRESSURE STEAM SUPPLY PIPING (16# - 60#)	SD		DUCT SMOKE DAMPER
MPC	—MPC—	MEDIUM PRESSURE CONDENSATE RETURN PIPING			DUCT SMOKE DETECTOR
HPS	—HPS—	HIGH PRESSURE STEAM SUPPLY PIPING (61# - 125#)	DAD		DUCT ACCESS DOOR
HPC	—HPC—	HIGH PRESSURE CONDENSATE RETURN PIPING			TURNING VANES IN DUCT ELBOW
PC	—PC—	PUMPED CONDENSATE PIPING			
BBD	—BBD—	BOILER BLOWDOWN PIPING	EP		ELECTRIC-PNEUMATIC CONTROL VALVE
BF	—BF—	BOILER FEED WATER PIPING	PE		PNEUMATIC-ELECTRIC CONTROL SWITCH
RL	—RL—	REFRIGERANT LIQUID PIPING		S / SD	WALL SWITCH / EMERGENCY SWITCH
RS	—RS—	REFRIGERANT SUCTION PIPING		TS	TEMPERATURE SENSOR
RHG	—RHG—	REFRIGERANT HOT GAS PIPING		T	WALL MOUNTED THERMOSTAT
TT	TT	THERMOSTATIC STEAM TRAP		CO2	WALL MOUNTED CARBON DIOXIDE SENSOR
F&T	F&T	FLOAT AND THERMOSTATIC STEAM TRAP		O	WALL MOUNTED OXYGEN SENSOR
IBT	IBT	INVERTED BUCKET STEAM TRAP		H	HUMIDISTAT
TCV		(2 OR 3-WAY) TEMPERATURE CONTROL VALVE			UNIT MOUNTED THERMOSTAT
		VENTURI METER		P / PM	PRESSURE SENSOR / PRESSURE MONITOR
BV		CALIBRATED BALANCING VALVE			UNDERCUT DOOR
AFV		AUTO FLOW VALVE			LOUVER IN DOOR
RSV		REFRIGERANT SERVICE VALVE		RISE	DUCT RISE
DPS	DP	DIFFERENTIAL PRESSURE SWITCH		DROP	DUCT DROP
FS		FLOW SWITCH	A.L.		ACOUSTICALLY LINED DUCTWORK
EJ		EXPANSION JOINT	TCOAD		TEMPERATURE CONTROL OUTSIDE AIR DAMPER
BJ		BALL JOINT EXPANSION COMPENSATOR	TCRAD		TEMPERATURE CONTROL RETURN AIR DAMPER
SA		SUPPLY AIR	TCEAD		TEMPERATURE CONTROL EXHAUST AIR DAMPER
RA		RETURN AIR	SP IN WC		STATIC PRESSURE IN INCHES WATER COLUMN
EA		EXHAUST AIR	EOMD		END OF MAIN DRIP
OA		OUTSIDE AIR	SCCR		SHORT CIRCUIT CURRENT RATING
			SD		SUPPLY AIR DEVICE
			RG		RETURN AIR DEVICE
			RG		RETURN AIR DEVICE WITH SOUND BOOT
			EG		EXHAUST AIR DEVICE

BAS CONTROL LEGEND & NOTES
(Not all symbols listed below are used on these drawings)

ABBR.	SYMBOL	DESCRIPTION
D.I.	D.I.	DIGITAL INPUT
D.O.	D.O.	DIGITAL OUTPUT
A.I.	A.I.	ANALOG INPUT
A.O.	A.O.	ANALOG OUTPUT

GENERAL NOTES:
1. THE TEMPERATURE CONTROL MATRIX, CONTROL DIAGRAMS, AND THE SEQUENCE OF OPERATIONS ARE ALL BINDING AND COMPLEMENTARY. IF THERE IS A DISCREPANCY BETWEEN THEM, THE WORST CASE SCENARIO SHALL BE USED FOR BIDDING PURPOSES. ADDITIONAL COSTS WILL NOT BE ALLOWED FOR DISCREPANCIES BETWEEN THE SPECIFICATIONS AND THE DRAWINGS.
2. IN ADDITION TO THE DDC POINTS LISTED, THE CONTRACTOR SHALL CAREFULLY REVIEW ALL DRAWINGS, ALL SPECIFICATIONS, AND ALL SEQUENCES OF OPERATION. THE DOCUMENTS ARE ALL INCLUSIVE AND COMPLIMENTARY TO EACH OTHER. THE PROJECT SHALL INCLUDE ANY AND ALL NECESSARY DDC POINTS TO SUPPORT THE REQUIREMENTS OF ALL THE DOCUMENTS.
3. ALWAYS REFER TO DRAWINGS FOR QUANTITY.
4. PROVIDE OPEN PROTOCOL COMMUNICATION WITH FACTORY SUPPLIED CONTROLLER.
5. BAS CONTRACTOR SHALL COORDINATE STATUS LEVEL FOR EACH ALARM POINT WITH THE OWNER TO DETERMINE WHICH ONES REQUIRE IMMEDIATE ATTENTION.
6. IF THERE IS A DISCREPANCY BETWEEN ANY DOCUMENTATION, THE WORST CASE SCENARIO SHALL BE USED FOR BIDDING PURPOSES. ADDITIONAL COSTS WILL NOT BE ALLOWED FOR DISCREPANCIES BETWEEN THE SPECIFICATIONS AND DRAWINGS.

F-1 — OUTSIDE AIR VENTILATION CALCULATIONS (OA)

AIR SYSTEM TAG | ROOM OCCUPANCY CLASSIFICATON | Code Basis: IMC 2021 | ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8 | SYSTEM OCCUPANT DIVERSITY (D) = 100% | OUTSIDE AIR SUMMARY

ROOM NAME AND NUMBER	PRIMARY	SECONDARY	ZONE AREA (SF) (Az)	ZONE PRIMARY AIR CFM (Vpz)	PEOPLE OUTSIDE AIR RATE (CFM) (Rp)	AREA OUTSIDE AIR RATE (CFM/SF) (Ra)	OCCUPANT DENSITY #/1000 SF	TOTAL PEOPLE (Pz)	BREATHING ZONE OUTSIDE AIR CFM (Vbz)	ZONE OUTSIDE AIR CFM (Voz)	PRIMARY OUTSIDE AIR FRACTION (Zp)	PEOPLE OUTSIDE AIR CFM	ROOM OUTSIDE AIR CFM
100 HALLWAY	PUBLIC SPACES	CORRIDORS	480	400	0.0	0.06	0	0	29	36	0.090	0	29
101 STAIR	PUBLIC SPACES	CORRIDORS	312	50	0.0	0.06	0	0	19	23	0.468	0	19
102 OFFICE	OFFICES	OFFICE SPACES	120	80	5.0	0.06	5	1	10	13	0.159	3	7
103 KITCHENETTE	OFFICES	BREAK ROOM	120	150	5.0	0.06	30	4	25	32	0.210	18	7
104 ADA RESTROOM	PUBLIC SPACES	TOILET ROOM	96	85	0.0	0.00	0	0	0	0	0.000	0	0
105 ADA RESTROOM	PUBLIC SPACES	TOILET ROOM	96	85	0.0	0.00	0	0	0	0	0.000	0	0
106 ELEC. ROOM	PUBLIC SPACES	TOILET ROOM	96	0	0.0	0.00	0	0	0	0	0.000	0	0
107 IT ROOM	PUBLIC SPACES	TOILET ROOM	92	0	0.0	0.00	0	0	0	0	0.000	0	0
108 FIRE RISER	PUBLIC SPACES	CORRIDORS	120	0	0.0	0.00	0	0	0	0	0.000	0	0

Project: TWIN FALLS TRAINING CENTER | Total Supply Air CFM = 850 | Uncorrected Outside Air Intake, CFM (Vou) = 83 | < < < < < OA Sum | 21 | 62

Location: TWIN FALLS, IDAHO | Critical Zone Outside Air Fraction (MAX Zp) = 0.468 | System Ventilation Efficiency (Ev) = 0.630 | Corrected Outside Air Intake, CFM (Vot) = 132 | Corrected Outside Air as % of Supply Air = 15.5%

EF-2 — EXHAUST AIR CALCULATIONS

AIR SYSTEM TAG | ROOM OCCUPANCY CLASSIFICATON | Code Basis: IMC 2018 | ZONE VENTILATION EFFECTIVENESS (Ez) = 1.0 | SYSTEM OCCUPANT DIVERSITY (D) = 100% | OUTSIDE AIR SUMMARY

ROOM NUMBER	ROOM NAME	PRIMARY	SECONDARY	ZONE AREA (SF) (Az)	ZONE PRIMARY AIR CFM (Vpz)	PEOPLE OUTSIDE AIR RATE (CFM) (Rp)	AREA EXHAUST AIR RATE (CFM/SF) (Ra)	OCCUPANT DENSITY #/1000 SF	TOTAL PEOPLE (Pz)	BREATHING ZONE OUTSIDE AIR CFM (Vbz)	ZONE OUTSIDE AIR CFM (Voz)	PRIMARY OUTSIDE AIR FRACTION (Zp)	PEOPLE OUTSIDE AIR CFM	ROOM OUTSIDE AIR CFM
102	APPARATUS BAY	IMC 404 - ENCLOSED PARKING GARAGE	---	3,680	200	5.0	0.05	0	0	184	184	0.920	0	184

Project: TWIN FALLS FIRE TRAINING | Total Supply Air CFM = 200 | Uncorrected Outside Air Intake, CFM (Vou) = 184 | < < < < < OA Sum | 0 | 184

Location: TWIN FALLS, ID | Critical Zone Outside Air Fraction (MAX Zp) = 0.920 | System Ventilation Efficiency (Ev) = 1.000 | Corrected Outside Air Intake Air, CFM (Vot) = 184 | Corrected Outside Air as % of Supply Air = 92.0%

UNLESS NOTED OTHERWISE ALL SCHEDULED DATA IS LISTED AT ELEVATION 3800 FT

HVAC PLAN NOTES:

1. ALL SUPPLY AIR DIFFUSERS ARE 4-WAY AIR PATTERN UNLESS SHOWN OTHERWISE.
2. DUCT SIZE OF BRANCH DUCT TO AIR DEVICE SHALL BE THE SAME SIZE AS NECK SIZE OF AIR DEVICE UNLESS NOTED OTHERWISE.
3. ALL HEATING WATER SUPPLY AND RETURN BRANCH PIPING TO TERMINAL BOXES SHALL BE 3/4" UNLESS NOTED OTHERWISE. ALL PIPING TAKE-OFFS FROM MAINS SHALL BE TOP TAKE-OFFS WITH SWING JOINTS.
4. BRANCH DUCT SIZE TO INLET OF ALL TERMINAL BOXES SHALL BE THE SAME SIZE AS THE INLET SCHEDULED UNLESS NOTED OTHERWISE. BRANCH DUCTS TO TERMINAL BOXES EXCEEDING 15' OR TWO ELBOWS, SHALL BE UP-SIZED TO NEXT STANDARD DIAMETER.
5. UNLESS OTHERWISE NOTED, ALL SUPPLY AIR DUCTWORK SHALL BE EXTERNALLY WRAPPED TO THICKNESS AS STATED IN SPECIFICATIONS AND RETURN AND EXHAUST DUCTWORK IS NEITHER LINED NOR WRAPPED.
6. PROVIDE ROOM AIR BALANCE TO ACHIEVE POSITIVE (+) OR NEGATIVE (-) AT THE DIFFERENTIAL PRESSURE INDICATED ON THE DRAWINGS.
7. PROVIDE EOMD AT ALL LOW POINTS FOR STEAM SUPPLY PIPING AS REQUIRED WHICH MAY NOT NECESSARILY BE SHOWN.
8. ALL BRANCH STEAM SUPPLY AND CONDENSATE RETURN PIPING FROM MAINS SHALL BE TOP TAKE-OFFS WITH SWING JOINTS.
9. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF PENETRATION DETAILS.
10. DUCT SIZES INDICATED ARE SHEET METAL SIZES. WHERE INTERNAL DUCT LINING IS PROVIDED, SHEET METAL SHALL NOT BE INCREASED IN SIZE.

GENERAL NOTES:

1. WORK INCLUDED IN THE CONTRACT IS DENOTED IN BOLD. EXISTING CONDITIONS TO REMAIN ARE DENOTED LIGHTLY.
2. A DETAILED METHOD OF PROCEDURE IS REQUIRED WHEN A CONSTRUCTION ACTIVITY AFFECTS THE SAFETY OF THE OCCUPANTS, OWNER'S EQUIPMENT OR VALUABLE CONTENTS OR ANY SYSTEM WHICH SUPPORTS THESE SYSTEMS; OR ESSENTIALLY AFFECTS THE BUILDING MANAGEMENT, OPERATIONS OR SECURITY.
3. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK AND SHALL NOTIFY THE ENGINEER/ARCHITECT OF ANY DISCREPANCIES FOR RESOLUTION.
4. COORDINATE WORK WITH ALL TRADES.
5. CONTRACTOR IS RESPONSIBLE FOR SECURING AND WEATHERPROOFING ANY ROOF OPENING NOT COMPLETED DURING WORKING HOURS.
6. COORDINATE ALL DUCTWORK AND PIPING WITH EQUIPMENT, STRUCTURE, ETC.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR DEACTIVATION OF ROOF-MOUNTED EQUIPMENT AND ASSOCIATED INDOOR EQUIPMENT. ONLY ONE UNIT SHALL BE TAKEN OUT OF SERVICE AT ANY TIME, WITH REMAINDER OF UNITS LEFT OPERATIONAL.
8. CONTRACTOR SHALL NOT SHUT DOWN / TAKE OUT OF SERVICE ANY SYSTEMS WITHOUT FIRST COORDINATING WITH OWNER AND PREPARING M.O.P.

DEMOLITION GENERAL NOTES:

1. EXISTING ITEMS TO REMAIN ARE DENOTED LIGHTLY UNLESS OTHERWISE NOTED. ALL ITEMS SHOWN DASHED & BOLD SHALL BE REMOVED UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL NOT SHUT-OFF OR PUT-OUT OF SERVICE ANY SYSTEMS OR SERVICE WITHOUT FIRST COORDINATING WITH THE OWNER.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE AND UNDERSTAND THE EXTENT OF THE REMODEL WORK REQUIRED PRIOR TO BID. NO EXTRAS WILL BE ALLOWED FOR WORK REQUIRED TO ACHIEVE THE END RESULT AS INDICATED BY THE CONTRACT DOCUMENT.
4. CONTRACTOR SHALL DETERMINE AND COORDINATE THE EXACT EXTENT OF DEMOLITION TO FACILITATE ALL WORK INDICATED BY THE CONTRACT DOCUMENT.
5. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOR RESOLUTION.
6. ALL ITEMS IDENTIFIED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY UNLESS OTHERWISE NOTED. REMOVED ITEMS SHALL BE TURNED OVER TO THE OWNER UNLESS OTHERWISE NOTED AND STORED IN THE AREA DESIGNATED BY THE OWNER. REMOVE FROM SITE AND LEGALLY DISPOSE OF ALL ITEMS THE OWNER CHOOSES NOT TO ACCEPT.
7. WHERE EXISTING PIPING, T.C. TUBING/WIRING ETC. ARE TO BE REMOVED FROM WALLS WHICH ARE REMAINING, THE WALLS SHALL BE REPAIRED TO MATCH ORIGINAL CONDITIONS.
8. WHERE EXISTING PIPING TO BE REMOVED PASSES THROUGH FLOORS, THEY SHALL BE CUT BACK TO WITHIN CONCRETE AND FILLED WITH GROUT TO ACHIEVE A SMOOTH AND EVEN FINISH WITH CONCRETE SURFACE.

COMcheck Software Version 4.1.1.0

Mechanical Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Twin Falls Training Facility
Location: Twin Falls, Idaho
Climate Zone: 5b
Project Type: New Construction

Construction Site: 420 Victory Avenue, Twin Falls, ID 83301
Owner/Agent:
Designer/Contractor:

Additional Efficiency Package(s)

High Performance SWH

Mechanical Systems List

Quantity — System Type & Description

2 — ELECTRIC UNIT HEATERS EUH (Single Zone):
Heating: 1 each - Unit Heater, Electric, Capacity = 17 kBtu/h
No minimum efficiency requirement applies
Fan System: UNIT HEATERS | WORK AREAS -- Compliance (Motor nameplate HP method) : Passes
Fans:
FAN 22 Supply, Constant Volume, 300 CFM, 0.0 motor nameplate hp, 0.0 fan efficiency grade

1 — FURNACE W/AC (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 52 kBtu/h
Proposed Efficiency = 95.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Cooling: 1 each - Field-Assembled DX System, Capacity = 25 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: None
No minimum efficiency requirement applies
Fan System: FURNACE W/AC | OFFICE AREA -- Compliance (Motor nameplate HP method) : Passes
Fans:
FAN 34 Supply, Constant Volume, 854 CFM, 0.8 motor nameplate hp, 0.8 fan efficiency grade

1 — LOW INTENSITY IR (Single Zone):
Heating: 4 each - Radiant Heater, Gas, Capacity = 75 kBtu/h
No minimum efficiency requirement applies
Fan System: None

1 — SPLIT SYSTEM (Single Zone):
Cooling: 1 each - Field-Assembled DX System, Capacity = 18 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: None
No minimum efficiency requirement applies
Fan System: SPLIT SYSTEM HEAT PUMPS | SLEEPING ROOMS -- Compliance (Motor nameplate HP method) : Passes
Fans:
FAN 33 Supply, Constant Volume, 290 CFM, 0.2 motor nameplate hp, 0.0 fan efficiency grade

1 — GAS WATER HEATER:
Gas Storage Water Heater, Capacity: 100 gallons, Input Rating: 199 kBtu/h w/ Circulation Pump
Proposed Efficiency: 96.00 % Et, Required Efficiency: 80.00 % Et

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE FOR ALL INSPECTIONS

pivot north ARCHITECTURE
PIVOT NORTH ARCHITECTURE, PLLC.
116 S. 6TH STREET
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www.pivotnorthdesign.com

STAMP
Jeff Jessee — PROFESSIONAL ENGINEER — LICENSED — IDAHO — LYNN JESSEE
Digitally signed by Jeff Jessee
DN: cn=Jeff Jessee, o=Rice Fergus Miller, ou=Engineering, email=jjessee@rfmeng.com, c=US
Date: 2024.02.29 08:37:16 -07'00'

RICEfergusMILLER

CATOR | RUMA & ASSOCIATES, CO
420 South Orchard Street, Boise, ID 83705
(208) 343-3663 • www.catorruma.com

Project: TWIN FALLS TRAINING FACILITY
420 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

1	CITY REVISIONS	2/27/23

PERMIT SET – 02.29.2024

Project No: 19-029
Date: 2/29/2024
Checked By: JLJ
Drawn By: NAH

Sheet Name:
MECHANICAL LEGENDS & NOTES

Sheet No:
M0.01

2/29/2024 2:32:40 PM
P:\Work\2020\2020-481 Twin Falls Fire Training Facility\Cad

FURNACE SCHEDULE

REMARKS:
1. REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS, INCLUDING COORDINATION OF VOLTAGE, PHASE, SCCR, WIRE SIZES, AND OVERCURRENT PROTECTIVE DEVICES.
   REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR MINIMUM FAULT CURRENT RATING THAT EACH UNIT SHALL EXCEED. UNIT NAMEPLATE SHALL INDICATE THE SHORT CIRCUIT CURRENT RATING.
2. REFER TO MECHANICAL LEGENDS AND NOTES SHEET FOR PROJECT ELEVATION.

DESIG.				FAN DATA										REFRIGERANT COOLING COIL								GAS-FIRED HEATING SECTION						FILTER DATA				UNIT SIZE						
																	EAT		LAT																		
NAME	NO.	MFR.	MODEL	ARRANGE (HORIZ / VERT / TWINNED)	SUPPLY CFM AT ELEV	O.A. CFM AT ELEV	ESP IN. W.C. AT S.L.	FAN WHEEL DIA. (INCHES)	APPROX. RPM	MOTOR TYPE (ECM OR PSC)	POWER	VOLTAGE	PHASE	REFRIG TYPE	COND UNIT TAG	MBH SENS	MBH TOTAL	DB °F	WB °F	DB °F	WB °F	MBH INPUT AT S.L.	MBH OUTPUT AT S.L.	COMB. EFF.	MBH OUTPUT AT ELEV	EAT °F	LAT °F	ARRANG (FLAT OR VEE)	TYPE (DISPOSE / WASHABLE / ELECTRONIC)	AREA SF	MERV	L (IN)	W (IN)	H (IN)	OPER WEIGHT (LBS)	CONTROL	REMARKS
F	1	TRANE	59XZB080	VERT	850	150	0.00	0	0	ECM	0.75 HP	120	1	410	CU-1	16.6	24.8	80	67	59	57	80.0	76.8	96%	66.4	58	147	FLAT	DISPOSABLE	5.3	8	29	18	34	127	THERMOSTAT	1,2

AIR COOLED CONDENSING UNIT SCHEDULE

REMARKS:
1. REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS, INCLUDING COORDINATION OF VOLTAGE, PHASE, SCCR, WIRE SIZES, AND OVERCURRENT PROTECTIVE DEVICES.
   REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR MINIMUM FAULT CURRENT RATING THAT EACH UNIT SHALL EXCEED. UNIT NAMEPLATE SHALL INDICATE THE SHORT CIRCUIT CURRENT RATING.
2. REFER TO SOUND DATA SCHEDULE FOR SOUND INFORMATION.
3. REFER TO MECHANICAL LEGENDS AND NOTES SHEET FOR PROJECT ELEVATION.

DESIG.						AHRI EFFICIENCY							COMPRESSORS						SIZE (INCHES)				ELECTRICAL					
NAME	NO.	MFR	MODEL	MATCHED SYSTEM COMPONENT	NOMINAL TONS COOL	AHRI SEER	EER	IPLV	TOTAL MBH AT ELEV	AMBIENT AIR TEMP (°F)	LOW AMBIENT AIR TEMP (°F)	REFRIG TYPE	TYPE	NUMBER	CONTROL STAGES	LOW STG VARIABLE SCROLL (YES/NO)	HOT GAS BYPASS (YES/NO)	SOUND LEVEL (dBA)	L	W	H	OPER WEIGHT (LBS)	VOLTAGE	PHASE	MCA	MOCP	CONTROL	REMARKS
CU	1	TRANE	4TTR3024	F-1	2	13.4	11.7	0	24.8	95	0	410	SCROLL	1	1	No	No	74	29	26	29	169	208	1	REMARK 1	REMARK 1		1,2,3

DUCTLESS SPLIT SYSTEM INDOOR UNIT SCHEDULE

REMARKS:
GENERAL: UNITS SUPPLIED ON THE PROJECT SHALL BE THE MOST RECENT SERIES CURRENTLY MANUFACTURED.
1. REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS, INCLUDING COORDINATION OF VOLTAGE, PHASE, SCCR, WIRE SIZES, AND OVERCURRENT PROTECTIVE DEVICES.
   REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR MINIMUM FAULT CURRENT RATING THAT EACH UNIT SHALL EXCEED. UNIT NAMEPLATE SHALL INDICATE THE SHORT CIRCUIT CURRENT RATING.
2. POWER FOR LINE VOLTAGE SOURCE MAY ROUTE THROUGH OUTDOOR UNIT FOR CONTROL AND MAIN SWITCH PURPOSES. MECHANICAL CONTRACTOR SHALL COORDINATE MFR REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
3. REFRIGERANT CHARGE VARIES DEPENDENT UPON SIZE & LENGTH OF RUN OF PIPING.
4. PROVIDE WIRED REMOTE CONTROL PANEL WITH INTEGRAL SPACE TEMPERATURE SENSOR. PROVIDE SETUP PER MANFACTURER'S INSTRUCTIONS AND TEMPERATURE SETPOINTS REQUIRED BY THESE PLANS AND SPECIFICATIONS.
5. PROVIDE CONDENSATE PUMP FOR EACH UNIT.
6. PROVIDE DRAIN PAN LEVEL SENSOR AT UNIT FOR SHUTDOWN UPON OVERFLOW OF CONDENSATE PAN.
7. PROVIDE FACTORY DISCONNECT ON UNIT.

DESIG.					SUPPLY FAN								COOLING COIL - REFRIGERANT (AHRI)					FILTER		SIZE (INCHES)					
																ENTERING AIR								
NAME	NO.	MFR	MODEL	MOUNTING STYLE	CFM (SL)	FAN SPEED	POWER	SOUND POWER (dBA)	VOLTAGE	PHASE	MCA	MOCP	TOTAL MBH (SL)	SENS HEAT RATIO	SENS. MBH (SL)	DB (°F)	WB (°F)	STYLE	TYPE	L	W	H	OPER WEIGHT (LBS)	POWER SOURCE COMMENT	REMARKS
DS	1	DAIKIN	FAQ18TAVJU	HIGH WALL	500	HIGH	0	43	208	1	REMARK 1	REMARK 1	18.0	0.76	13.7	80	67	WASHABLE	YNTHETICS	41	10	12	31	POWER FROM LINE VOLTAGE SOURCE	1,2,3,4,5,6,7

DUCTLESS SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

REMARKS:
GENERAL: UNITS SUPPLIED ON THE PROJECT SHALL BE THE MOST RECENT SERIES CURRENTLY MANUFACTURED.
1. REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS, INCLUDING COORDINATION OF VOLTAGE, PHASE, SCCR, WIRE SIZES, AND OVERCURRENT PROTECTIVE DEVICES.
   REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR MINIMUM FAULT CURRENT RATING THAT EACH UNIT SHALL EXCEED. UNIT NAMEPLATE SHALL INDICATE THE SHORT CIRCUIT CURRENT RATING.
2. PROVIDE FACTORY-SUPPLIED, FIELD-INSTALLED INTAKE AND DISCHARGE WIND BAFFLES FOR LOW AMBIENT OPERATION OF OUTDOOR UNIT EITHER AS PROVIDED BY THE MANUFACTURER OR SHOP-FABRICATED PER MANUFACTURER'S INSTRUCTIONS.
3. REFER TO ASSOCIATED INDOOR UNIT SCHEDULE FOR ADDITIONAL REMARKS APPLICABLE TO OUTDOOR UNITS.

DESIG.						COOLING CAPACITY						REFRIGERANT		SIZE (INCHES)				ELECTRICAL					
NAME	NO.	MFR	MODEL	MATCHED SYSTEM COMPONENT	OPERATING FUNCTION	NOMINAL TONS (SL)	TOTAL MBH (SL)	AMBIENT AIR (°F)	LOW AMBIENT (°F)	AHRI SEER	SOUND POWER (dBA)	TYPE	CHARGE (LBS)	L	W	H	OPER WEIGHT (LBS)	VOLTAGE	PHASE	MCA	MOCP	CONTROL	REMARKS
DSO	1	DAIKIN	RZR18TAVJUA	DS-1	COOLING ONLY	1.5	18.0	105	-20	17	58	410	4.90	24	11	22	172	208	1	REMARK 1	REMARK 1	WALL MOUNTED WIRED REMOTE CONTROLLER	1,2,3

AIR DEVICE SCHEDULE

REMARKS:
GENERAL - APPLIES TO ALL AIR DEVICES: MANUAL VOLUME DAMPERS SHALL BE ACCEPTABLE IN DUCTWORK AT THE BRANCH POINT OF THE RUNOUT DUCT OR IN-LINE TO THE AIR DEVICE BY THE CONTRACTOR INSTALLING DUCTWORK. A DAMPER LOCATED AT THE AIR DEVICE SHALL BE ACCEPTABLE WHEN PERMITTED BY ENGINEER ON A CASE-BY-CASE BASIS OR WHEN THE MANUFACTURER REQUIRES AN INTEGRAL MANUAL VOLUME DAMPER.
1.

DESIG.	FUNCTION	STYLE	MFR.	MODEL	FRAME STYLE	MODULE SIZE	MATERIAL	FINISH	REMARKS
A	CEILING SUPPLY	PLAQUE FACE FIXED PATTERN, SQUARE DIFFUSER	PRICE	SPD	LAY-IN	24x24	STEEL	WHITE	
B	CEILING RETURN, TRANSFER	MODULAR PERFORATED FACE GRILLE	PRICE	PDDR	LAY-IN	SEE PLANS	STEEL	WHITE	
C	CEILING EXHAUST	EGGCRATE FACE GRILLE	PRICE	80	SURFACE	SEE PLANS	ALUMINUM	WHITE	
D	SIDEWALL SUPPLY	ADJUSTABLE VANES, DOUBLE DEFLECTION, 3/4" O.C.	PRICE	520	SURFACE	SEE PLANS	STEEL	WHITE	
E	SIDEWALL EXHAUST	FIXED ANGLE VANES, 3/4" O.C.	PRICE	530	SURFACE	SEE PLANS	STEEL	WHITE	BLADES PARALLEL WITH LONG DIMENSION, UPTURNED FOR VISION BLOCK

MAKE UP AIR UNIT SCHEDULE

COMMON NOTES (APPLIE...:
A. REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS, INCLUDING COORDINATION OF VOLTAGE, PHASE, SCCR, WIRE SIZES, AND OVERCURRENT PROTECTIVE DEVICES.
   REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR MINIMUM FAULT CURRENT RATING THAT EACH UNIT SHALL EXCEED. UNIT NAMEPLATE SHALL INDICATE THE SHORT CIRCUIT CURRENT RATING.
B. UNIT HEIGHT DOES NOT INCLUDE HEIGHT OF CURB.
C. PROVIDE BASE RAIL OR CURB HEIGHT TO ACCOMMODATE CONDENSATE DRAIN P-TRAP.
D. PROVIDE SHAFT GROUNDING RINGS FOR EACH BEARING ON MOTORS POWERED THROUGH VARIABLE FREQUENCY DRIVES.
E. MINIMUM 2-ROW HEATING COIL.
F. MINIMUM 6-ROW COOLING COIL.
G. PROVIDE A GRAVITY BACKDRAFT DAMPER ON EACH FAN IN A MULTI-FAN SECTION.
H. REFER TO SOUND DATA SCHEDULE FOR SOUND INFORMATION.
I. REFER TO MECHANICAL LEGENDS AND NOTES SHEET FOR PROJECT ELEVATION.

UNIT SPECIFIC REMARKS:
1. PROVIDE SEISMIC SPRING ISOLATION CURB.

DESIG.						SUPPLY FAN SECTION												GAS HEATING SECTION									UNIT SIZE						DESIG.	
						OPERATION AT ELEV				WHEEL				MOTORS EACH FAN				AT ELEV															
NAME	NO.	AREA SERVED	MFR	MODEL NO.	OUTSIDE AIR CFM MIN.	CFM	ESP (IN WC)	TSP (IN WC)	NO. OF FANS	DIA. (IN)	TYPE (AF/BI/FC)	DRIVE (BELT/ DIRECT)	RPM APPROX.	REQ'D BHP	MAX POWER (HP)	VOLTAGE	PHASE	CFM	AIR P.D. (IN WC)	GAS PRESS RANGE (IN WC)	MBH INPUT AT S.L.	MBH OUTPUT AT S.L.	MBH OUTPUT AT ELEV	TURNDOWN RATIO	EAT °F	LAT °F	L (IN)	W (IN)	H (IN)	OPER WEIGHT (LBS)	CONTROL	REMARKS	NAME	NO.
MAU	1	APP BAY	GREENHECK	IGX-P112-H12-MF-G	2,760	2,760	0.50	0.84	1	15	FA	DIRECT	2394	0.8	1.0	208	3	2760	0.14	7-14	178.1	142.5	0.0	4:1	0	0	111	44	39	0	SEE SPEC	1	MAU	1

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Project:
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MECHANICAL SCHEDULES

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FAN SCHEDULE

GENERAL REMARKS:

A. REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS, INCLUDING COORDINATION OF VOLTAGE, PHASE, SCCR, WIRE SIZES, AND OVERCURRENT PROTECTIVE DEVICES. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR MINIMUM FAULT CURRENT RATING THAT EACH UNIT SHALL EXCEED. UNIT NAMEPLATE SHALL INDICATE THE SHORT CIRCUIT CURRENT RATING.
B. PROVIDE SHAFT GROUNDING RINGS FOR EACH BEARING ON MOTORS POWERED THROUGH VARIABLE FREQUENCY DRIVES.
C. FEG = FAN EFFICIENCY GRADE IN ACCORDANCE WITH AMCA 205.
D. FAN E.S.P. INCLUDES DAMPER PRESSURE DROP. INCULDE DAMPER PRESSURE DROP IN SUBMITTAL.
E. REFER TO SOUND DATA SCHEDULE FOR SOUND INFORMATION.
F. REFER TO MECHANICAL LEGENDS AND NOTES SHEET FOR PROJECT ELEVATION.

SPECIFIC REMARKS:

1. PROVIDE WIRED WALL CONTROLLER, RE: ELECTRICAL FOR LOCATION.
2. PROVIDE CURB, DISCONNECT SWITCH AND BIRD SCREEN. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. INTERLOCKED WITH LIGHT SWITCH.
4. FAN TO RUN CONTINUOUSLY WITH WALL SWITCH TO OVERRIDE.

DESIG.												MOTOR										BACKDRAFT DAMPER (BDD)			SIZE (INCHES)					
NAME	NO.	MFR	MODEL	FAN TYPE	SERVICE	FAN CLASS	WHEEL DIA. (INCHES)	CFM AT ELEV.	E.S.P. (IN. W.C.)	APPROX. RPM	TIP SPEED (FPM)	REQ'D BHP	POWER	VOLTAGE	PHASE	ECM (YES/NO)	VFD (YES/NO)	RELAY (YES/NO)	STARTER (YES/NO)	VFD BYPASS (YES/NO)	DRIVE TYPE	TYPE & LOCATION	THROAT HEIGHT (INCHES)	THROAT WIDTH (INCHES)	L	W	H	OPER. WEIGHT (LBS.)	CONTROL	REMARKS
DF	1	BIG ASS FAN	ESSENCE	HIGH VOLUME LOW SPEED	APP BAY	I	120.0	0	0.00	0		0.00	10 FLA	120	1	No	Yes	Yes	No	No	DIRECT				120	120	24	50	MANUAL	1
EF	1	GREENHECK	CUE-160-VG	UPBLAST	APP BAY PURGE	I	18.0	2760	0.50	1163	5062	0.08	0.75 HP	120	1	Yes	No	No	No	No	DIRECT	GRAVITY	19	19	0	29	30	82	CO MONITOR	2
EF	2	GREENHECK	CUE-080-VG	UPBLAST	APP BAY GENERAL	I	11.0	200	0.50	1566	4460	0.04	0.1 HP	120	1	Yes	No	No	No	No	DIRECT	GRAVITY	16	16	0	22	13	35	MANUAL	2
EF	3	GREENHECK	CUE-080-VG	UPBLAST	GENERAL	I	11.0	270	0.50	1666	4743	0.06	0.1 HP	120	1	Yes	No	No	No	No	DIRECT	GRAVITY	16	16	0	22	13	35	MANUAL	2

UNIT HEATER SCHEDULE (ELECTRIC)

REMARKS:

1. REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS, INCLUDING COORDINATION OF VOLTAGE, PHASE, SCCR, WIRE SIZES, AND OVERCURRENT PROTECTIVE DEVICES. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR MINIMUM FAULT CURRENT RATING THAT EACH UNIT SHALL EXCEED. UNIT NAMEPLATE SHALL INDICATE THE SHORT CIRCUIT CURRENT RATING.
2. PRODUCT IS SUITABLE FOR INSTALLATION AT ALTITUDES ABOVE 6000 FEET.
3. REFER TO PLANS FOR THERMOSTAT LOCATION. REMOTE OR INTEGRAL. PROVIDE 2-STAGE THERMOSTAT CONTROL WHERE 2-STAGE HEATING ELEMENT IS INDICATED.
4. UNITS PROVIDED WITH INTEGRAL AUTOMATIC RESETTING LIMIT CONTROL FOR OVER-TEMPERATURE CONDITION ON HEATER.
5. INTEGRAL LINE VOLTAGE THERMOSTAT.

DESIG.				HEATING CAPACITY			FAN MOTOR		AIR TEMP		SIZE (INCHES)			OPER. WEIGHT (LBS)	ELECTRICAL		MAX MTG. HEIGHT TO BOTTOM (FT.)	CONTROL	REMARKS
NAME	NO.	MFR	MODEL	POWER	MBH	STAGES	AIRFLOW (CFM)	NO.	EAT (°F)	LAT (°F)	L	D	H		VOLTAGE	PHASE			
EUH	1	MARKEL	F3FUH12C03	12.5 KW	42.7	1	800	1	60	117	22	21	15	45	208	3	10	NOTE 5	1,2,3,4
EUH	2	MARKEL	F3FUH12C03	12.5 KW	42.7	1	800	1	60	117	22	21	15	45	208	3	10	NOTE 5	1,2,3,4
EUH	3	MARKEL	F1FUH03003	3.3 KW	11.3	1	400	1	60	90	20	19	13	36	208	1	9	NOTE 5	1,2,3,4

ELECTRIC BASEBOARD SCHEDULE

REMARKS:

1. REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS, INCLUDING COORDINATION OF VOLTAGE, PHASE, SCCR, WIRE SIZES, AND OVERCURRENT PROTECTIVE DEVICES. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR MINIMUM FAULT CURRENT RATING THAT EACH UNIT SHALL EXCEED. UNIT NAMEPLATE SHALL INDICATE THE SHORT CIRCUIT CURRENT RATING.
2. INTEGRAL LINE VOLTAGE THERMOSTAT.

DESIG.				HEATING CAPACITY		MATERIAL		ENCLOSURE		ELECTRICAL			
NAME	NO.	MFR	MODEL	BTUH	POWER	WATTS / FT	FIN MATERIAL	HEIGHT (IN.)	DEPTH (IN.)	VOLTAGE	PHASE	CONTROL	REMARKS
EBBR	1	MARKEL	DBFPD8250ITS	--	2 KW	250	ALUMINUM	6	4	208	1	NOTE 2	1

LOUVER SCHEDULE

REMARKS:

1. COLOR TO MATCH MANUFACTURER OF METAL BUILDING.

DESIG.				INTAKE OR DISCHARGE	OVERALL SIZE (IN.)			FREE AREA (SF)	PEAK AIRFLOW (CFM)	AIR VELOCITIES		AIR P.D. AT SEA LEVEL (IN W.C)	MATERIAL	FINISH	REMARKS
NAME	NO.	MFR	MODEL		L	H	D			FACE AREA (FPM)	FREE AREA (FPM)				
WL	1	GREENHECK	ESK-602	INTAKE	48	48	6	8.46	2760	170	330	0.02	ALUMINUM	NOTE 1	1
WL	2	GREENHECK	ESK-602	INTAKE	18	18	6	0.78	270	120	350	0.02	ALUMINUM	NOTE 1	1

DUCT PRESSURE CLASSIFICATION SCHEDULE

DUCT TYPE	MATERIAL	PRESSURE CLASS	REMARKS
LOW PRESSURE SUPPLY	GALVANIZED STEEL [STAINLESS STEEL]	+2"	
LOW PRESSURE EXHAUST	GALVANIZED STEEL [STAINLESS STEEL]	-2"	
RETURN / TRANSFER AIR	GALVANIZED STEEL	+/-2"	

REMARKS:

1.

EQUIPMENT SOUND DATA SCHEDULE

REMARKS:

1.

DESIG.		INLET NC (Hz)							RADIATED NC (Hz)							DISCHARGE NC (Hz)								
NAME	NO.	63	125	250	500	1K	2K	4K	8K	63	125	250	500	1K	2K	4K	8K	63	125	250	500	1K	2K	4K	8K	SONES	REMARKS
EF	1	74	80	79	76	70	68	64	61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14.5	
EF	2	72	75	69	62	61	58	51	47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.9	
EF	3	72	75	69	62	61	58	51	47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.9	
MAU	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	74	70	75	72	77	77	75	69	18.1	

GAS FIRED RADIANT HEATER SCHEDULE

REMARKS:

1. MOUNT AT 15'-0" AFF TO BOTTOM OF UNIT.

DESIG.				HEATING STAGE OF BURNER	BURNER INPUT CAPACITY (BTUH)	BURNER	REMARKS
NAME	NO.	MFR.	MODEL				
GRH	1	SPACE RAY	LTS-40	2	40000	INDUCED DRAFT	1
GRH	2	SPACE RAY	LTS-40	2	40000	INDUCED DRAFT	1
GRH	3	SPACE RAY	LTS-40	2	40000	INDUCED DRAFT	1
GRH	4	SPACE RAY	LTS-40	2	40000	INDUCED DRAFT	1

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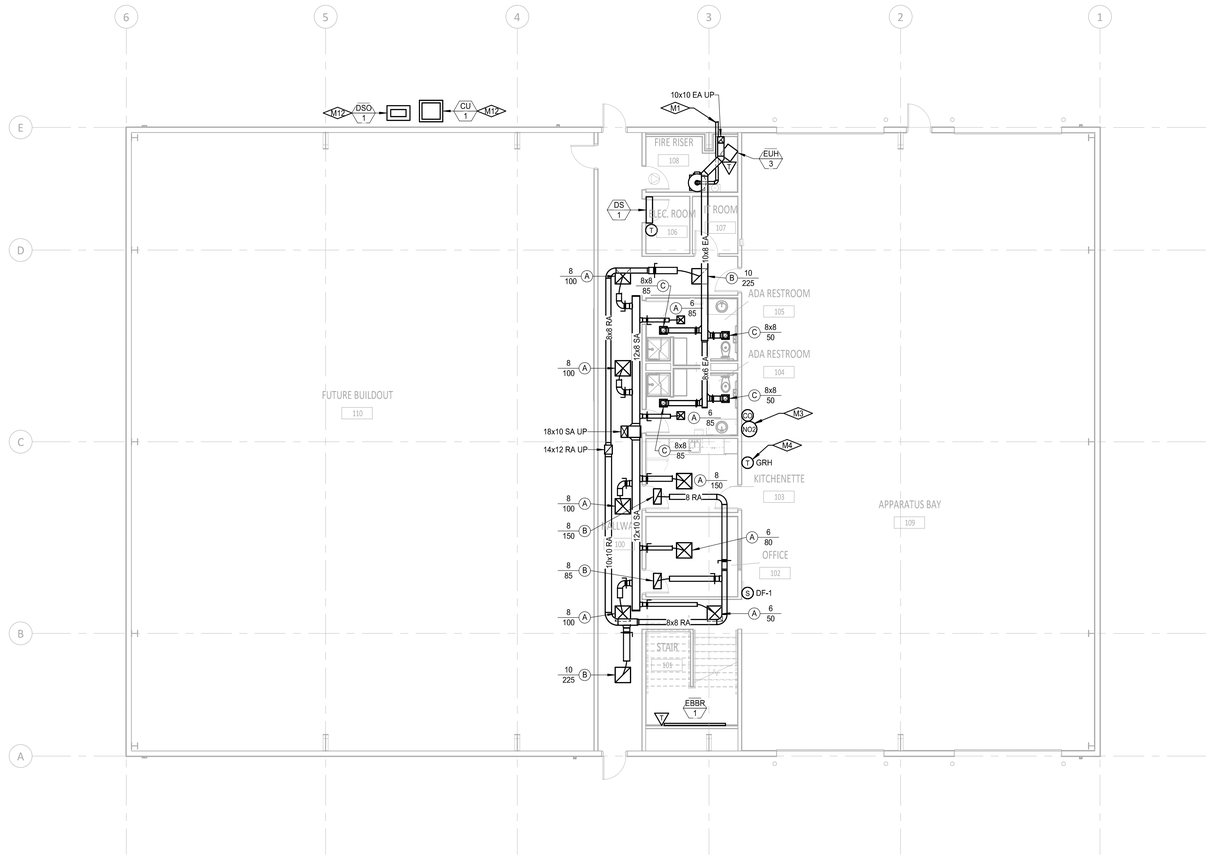
KEYNOTES

M1	WATER HEATER CONCENTRIC VENT KIT THRU WALL, REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS.
M3	CO AND NO2 MONITORS ON BOTH SIDES OF APP BAY, INTERLOCK WITH PURGE EXHAUST.
M4	ALL GRH TO BE CONTROLLED BY SINGLE LOW VOLTAGE TWO-STAGE THERMOSTAT, PROVIDE TRANSFORMER, MANUFACTURERS RELAY BOARD, ETC. AS REQUIRED.
M12	SET OUT DOOR CONDENSING UNIT ON CONCRETE HOUSEKEEPING PAD.



LEVEL 1 - HVAC PLAN

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

1"

IF LINE DOES NOT MEASURE 1 INCH, DRAWING IS NOT TO SCALE

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LEVEL 1 - HVAC PLAN

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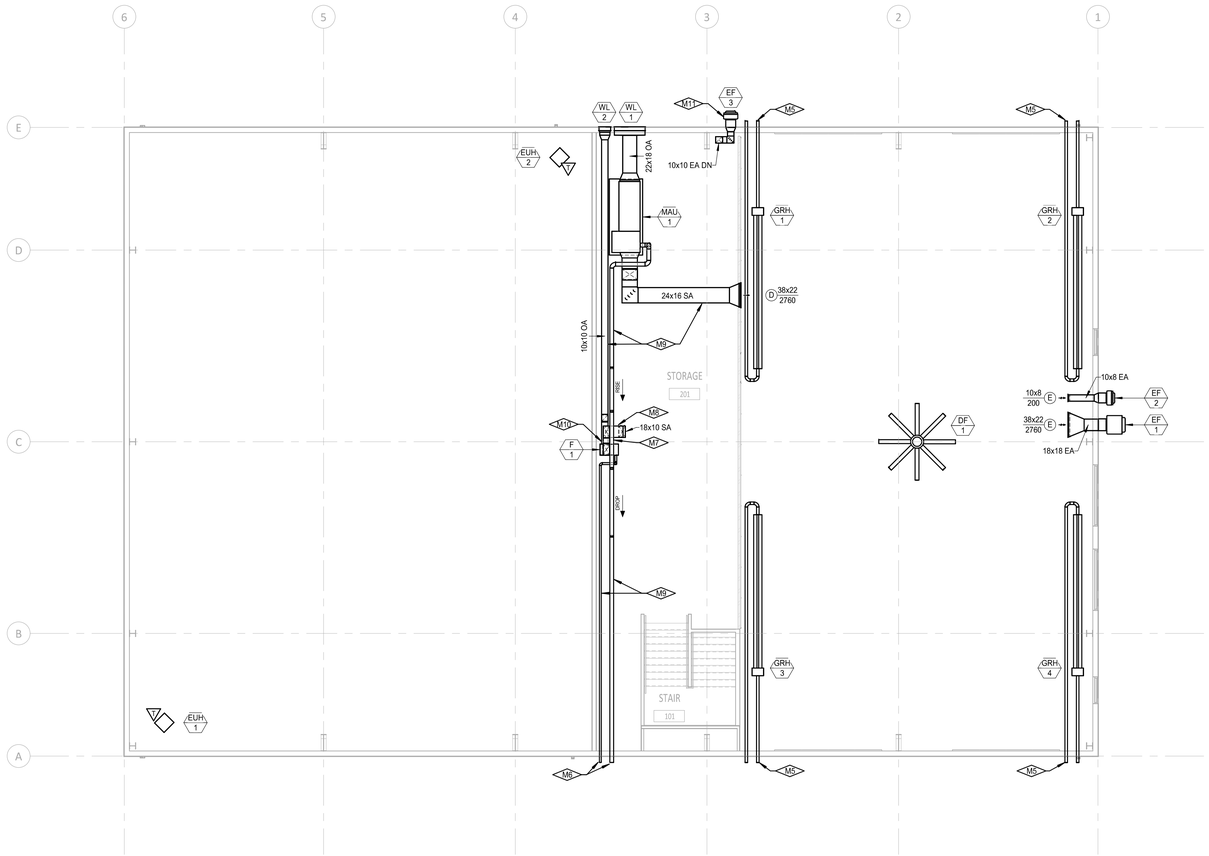
KEYNOTES

M5	EXTEND GRH VENT FLUE PAST ROOF OVERHANG.
M6	EXTEND FLUES FROM MAU AND FURNACE PAST ROOF OVERHANG.
M7	ROUTE MAU FLUE UP OVER FURNACE DUCTWORK.
M8	OFFSET DUCTWORK IN RISE TO ALLOW ROUTING IN CEILING SPACE BELOW.
M9	ROUTE DUCT AS HIGH AS POSSIBLE IN MEZZANINE
M10	CONNECT OUTSIDE AIR DUCT TO RETURN SECTION OF FURNACE. BALANCE TO 270 CFM.
M11	INSTALL FAN A MINIMUM OF 10' FROM OUTSIDE AIR WALL LOUVER.



LEVEL 2 - HVAC PLAN

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

1"

IF LINE DOES NOT MEASURE 1 INCH, DRAWING IS NOT TO SCALE

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LEVEL 2 - HVAC PLAN

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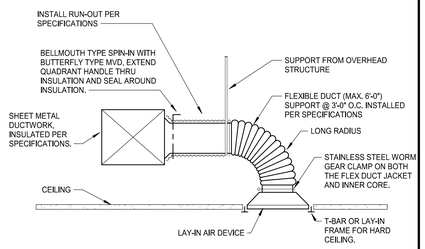


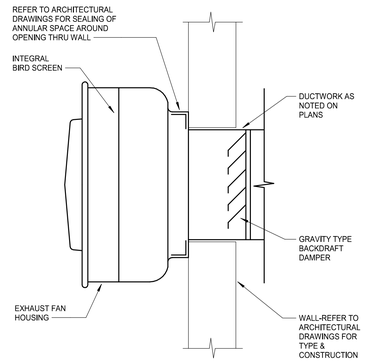
NOTE:
CEILING DIFFUSER SHOWN; REGISTERS AND GRILLES SIMILAR.

HARD CEILING INSTALLATIONS:
1. PROVIDE LAY-IN FRAME TO ALLOW AIR DEVICE TO BE REMOVED,
2. LOCATE MVD TO BE ACCESSIBLE. IF SPIN-IN IS NOT ACCESSIBLE PROVIDE A SEPARATE MVD ACCESSIBLE BY REMOVING THE GRILLE IN LIEU OF THE ONE AT THE SPIN-IN.

ROUND NECK AIR DEVICE DETAIL

SCALE: NONE

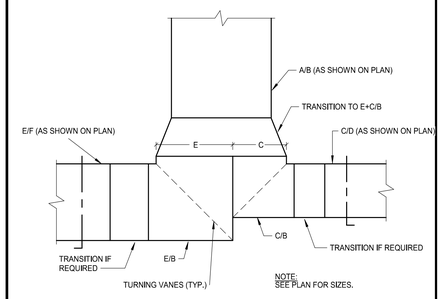
3713-08



WALL EXHAUST FAN DETAIL

SCALE: NONE

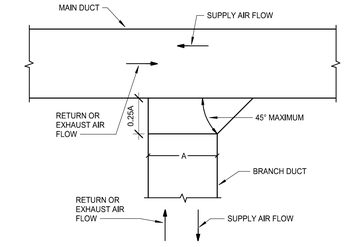
3400-12



SPLITTER DUCT DETAIL

SCALE: NONE

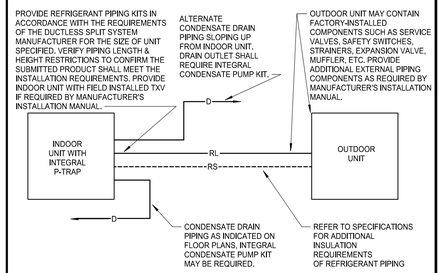
3300-07



DUCT TAKE-OFF DETAIL

SCALE: NONE

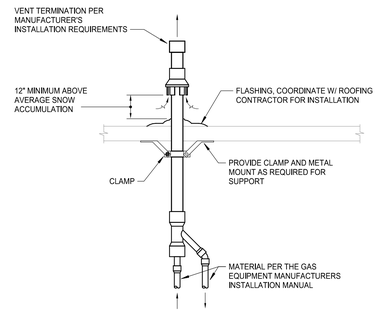
3300-02



DUCTLESS SPLIT SYSTEM PIPING DETAIL

SCALE: NONE

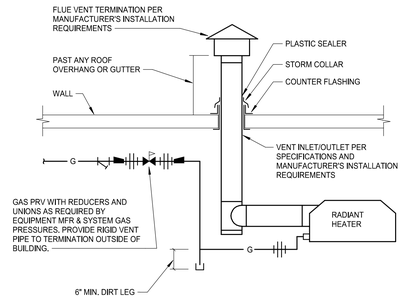
2316-07



CONCENTRIC VENT KIT DETAIL

SCALE: NONE

5400-05



GAS FIRED RADIANT HEATER DETAIL

SCALE: NONE

5533-01

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GENERAL LEGEND
(Not all symbols listed below are used on these drawings)

ABBR.	SYMBOL	DESCRIPTION
	X / X-X	SECTION DESIGNATION SECTION CUT ON THIS SHEET
	X / X-X	VIEW REFERENCE DESIGNATION VIEW REFERENCE ON THIS SHEET
	X / 1'-0"	EQUIPMENT UNIT IDENTIFICATION EQUIPMENT UNIT NUMBER (UNIT SERVED - FLOOR - SEQUENCE #)
	A 10 / 250	DIFFUSER IDENTIFICATION DIFFUSER NECK DIAMETER DIFFUSER CFM
	B 8@24"L / 9999	LINEAR DIFFUSER IDENTIFICATION LINEAR DIFFUSER NECK DIAMETER LINEAR DIFFUSER LENGTH LINEAR DIFFUSER CFM
	2'-6" / FTR / 3'-0" / 28	FINNED TUBE RADIATOR ACTIVE ELEMENT LENGTH EQUIPMENT UNIT IDENTIFICATION EQUIPMENT UNIT NUMBER RADIATOR ENCLOSURE LENGTH (OR W-W=WALL-TO-WALL)
	1	KEY NOTE REFERENCE
	T	KITCHEN/OWNER/MEDICAL EQUIPMENT REFERENCE
		TYPICAL ROOM REFERENCE (TOP = RM #; BOTTOM = FLR)
		POINT OF CONNECTION, NEW TO EXISTING
		POINT OF DISCONNECTION, DEMO
		DIRECTION OF FLOW IN PIPE
		DUCTWORK, PIPING AND EQUIPMENT TO BE REMOVED
(E)		EXISTING
(N)		NEW
(R)		RELOCATED
(F)		FUTURE
DIA	Ø	DIAMETER
WAD		WALL ACCESS DOOR
NIC		NOT IN CONTRACT
AFF		ABOVE FINISHED FLOOR
GC		GENERAL CONTRACTOR
MC		MECHANICAL CONTRACTOR
EC		ELECTRICAL CONTRACTOR
UNO		UNLESS NOTED OTHERWISE
C		COMMON
NC		NORMALLY CLOSED
NO		NORMALLY OPEN

ABBR.	SYMBOL	DESCRIPTION
		CAP END OF PIPE
	SLOPE	PITCH DOWN IN DIRECTION OF ARROW
		PIPE ANCHOR
		PIPE ALIGNMENT GUIDE
		UNION OR FLANGE
		CONCENTRIC PIPE REDUCER
		ECCENTRIC PIPE REDUCER
PRV		PRESSURE REDUCING VALVE
PTRV		PRESSURE AND/OR TEMPERATURE RELIEF VALVE
		ISOLATION VALVE (RE: SPEC FOR TYPE)
		VERTICAL PIPE VALVE
CV		CHECK VALVE
		SOLENOID / MOTORIZED VALVE
		SOLENOID VALVE
		HOSE END DRAIN VALVE
P/T	P/T	PRESSURE / TEMPERATURE TAP
		STRAINER
		STRAINER W/ BLOWDOWN
		BRAIDED FLEXIBLE PIPE CONNECTOR
		DOUBLE-BOWL FLEXIBLE PIPE CONNECTOR
		THERMOMETER
		PRESSURE GAUGE
		SIGHT GLASS
C.A.P.		CEILING ACCESS PANEL
		PUMP
TB		THRUST BLOCK
MAV		MANUAL AIR VENT
AAV		AUTOMATIC AIR VENT

FIRE PROTECTION LEGEND
(Not all symbols listed below are used on these drawings)

ABBR.	SYMBOL	DESCRIPTION
F	F	FIRE SERVICE PIPING
O.S.&Y.		O.S.&Y. GATE VALVE W/ TAMPER SWITCH
FS		FLOW SWITCH
PIV		POST INDICATOR VALVE
FDC		FIRE DEPARTMENT CONNECTION

ABBR.	SYMBOL	DESCRIPTION
		NEW SPRINKLER HEAD
		EXISTING SPRINKLER HEAD
		RELOCATED SPRINKLER HEAD
		SIDEWALL SPRINKLER HEAD
	D24	DRY SPRINKLER HEAD (SHAFT LENGTH)
FHC		FIRE HOSE CABINET
FVC		FIRE VALVE CABINET
A/S		AUTOMATIC FIRE SPRINKLER

FIRE PROTECTION NOTES:

1. FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE INSTALLATION OF A COMPLETE AND PROPERLY FUNCTIONING FIRE PROTECTION SYSTEM.
2. THE FIRE PROTECTION WORK INVOLVES ENGINEERING AND DESIGN BY THE CONTRACTOR TO DETERMINE THE EXTENT OF NEW WORK AND THE MODIFICATION AND EXTENSION OF EXISTING SYSTEMS TO PROVIDE FULL COVERAGE TO THE PROJECT AREA SHOWN ON THESE AND THE ARCHITECTURAL PLANS.
3. THE INFORMATION PRESENTED ON THESE DRAWINGS IS DIAGRAMMATIC. IT DOES NOT NECESSARILY REPRESENT ALL ELBOWS, OFFSETS, HANGERS, ETC., REQUIRED FOR A COMPLETE WORKING SYSTEM.
4. ALL FIRE PROTECTION SYSTEMS INSTALLED SHALL BE IN ACCORDANCE WITH NFPA-13, 14, 20, ETC. AND LOCAL BUILDING CODES AND ORDINANCES.
5. FIRE PROTECTION CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL NEW FIRE PROTECTION EQUIPMENT AND PIPING WITH ALL OTHER TRADES PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND SYSTEM INSTALLATION, SO AS NOT TO INTERFERE WITH THE ROUTING OF NEW DUCTWORK, PLUMBING PIPING, ETC.
6. PROVIDE ALL FITTINGS, RISER NIPPLES, ARM-OVERS, HANGERS, ETC. TO MAINTAIN CONFORMANCE WITH APPLICABLE STANDARDS AND TO POSITION THE SPRINKLERS IN THE PROPER LOCATIONS.
7. SEAL ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS AND CEILINGS WITH FIRE STOPPING MATERIALS AS REQUIRED.
8. FOR REMODEL AREAS NEW SPRINKLERS SHALL MATCH EXISTING SPRINKLERS.
9. PROVIDE FIELD COORDINATION OF PIPING AND SPRINKLER INSTALLATIONS WITH DUCTWORK, LIGHTS, SMOKE DETECTORS, DIFFUSERS, ETC.

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Project:
TWIN FALLS TRAINING FACILITY
420 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

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Project No:	19-029
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Drawn By:	DI

Sheet Name:
FIRE PROTECTION LEGENDS & NOTES

Sheet No:
F0.01

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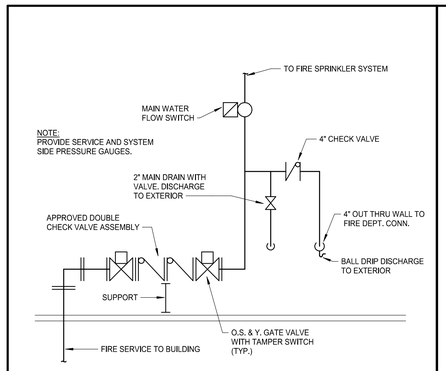
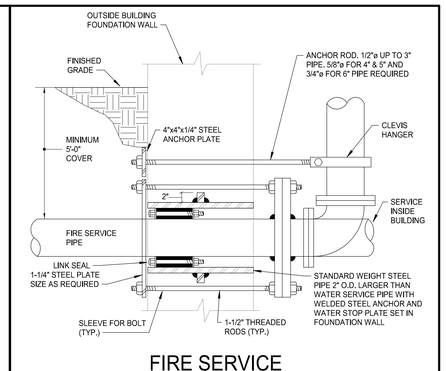


FIRE LINE ENTRY DETAIL

SCALE: NONE

1000-05



FIRE SERVICE SLEEVE DETAIL

SCALE: NONE

(211000)

1000-08

KEYNOTES

PROTECT AS REQUIRED PER NFPA, PROVIDE DRY SYSTEM OR SIDEWALLS IN AREAS SUBJECT TO FREEZING. STANDARD SEMI-RECESS SPRINKLERS FOR LOWERED CEILINGS AND UPRIGHT SPRINKLERS FOR EXPOSED CEILINGS IN OTHER AREAS.

MECHANICAL, ELECTRICAL, AND IT SPACES. NO SPRINKLER PIPING IN THESE AREAS OTHER THAN PIPING SERVING SPRINKLERS DIRECTLY IN THAT ROOM.

LEVEL 1 - FIRE PROTECTION PLAN

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

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LEVEL 1 - FIRE PROTECTION PLAN

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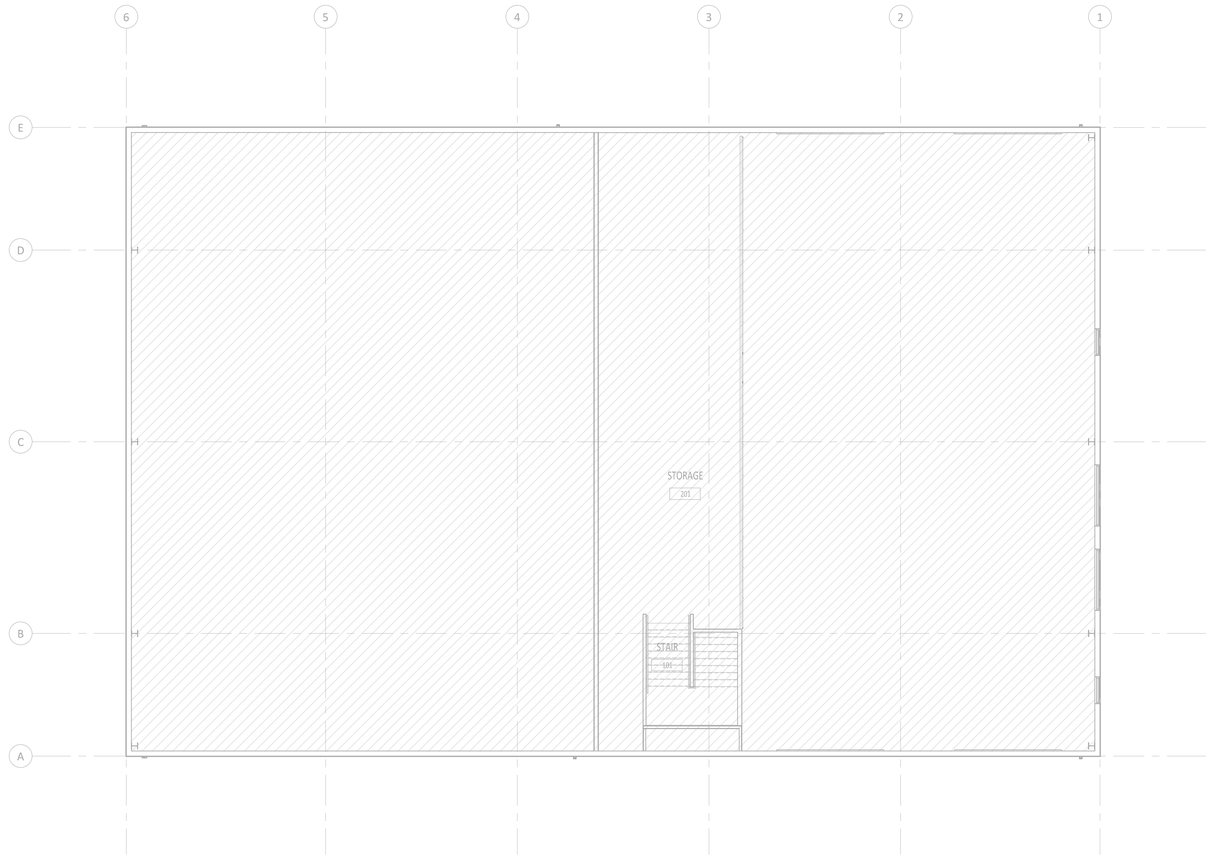
KEYNOTES



PROTECT AS REQUIRED PER NFPA. PROVIDE DRY SYSTEM OR SIDEWALLS IN AREAS SUBJECT TO FREEZING. STANDARD SEMI-RECESS SPRINKLERS FOR LOWERED CEILINGS AND UPRIGHT SPRINKLERS FOR EXPOSED CEILINGS IN OTHER AREAS.

MECHANICAL, ELECTRICAL, AND IT SPACES. NO SPRINKLER PIPING IN THESE AREAS OTHER THAN PIPING SERVING SPRINKLERS DIRECTLY IN THAT ROOM.

LEVEL 2 - FIRE PROTECTION PLAN

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

1"
IF LINE DOES NOT MEASURE 1 INCH, DRAWING IS NOT TO SCALE

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LEVEL 2 - FIRE PROTECTION PLAN

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GENERAL LEGEND
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	X / X-X	SECTION DESIGNATION SECTION CUT ON THIS SHEET
	X / X-X	VIEW REFERENCE DESIGNATION VIEW REFERENCE ON THIS SHEET
	X / T-S	EQUIPMENT UNIT IDENTIFICATION EQUIPMENT UNIT NUMBER (UNIT SERVED - FLOOR - SEQUENCE #)
	A 10 / 250	DIFFUSER IDENTIFICATION DIFFUSER NECK DIAMETER DIFFUSER CFM
	B 6x24"L / 9999	LINEAR DIFFUSER IDENTIFICATION LINEAR DIFFUSER NECK DIAMETER LINEAR DIFFUSER LENGTH LINEAR DIFFUSER CFM
	2'-6" / FTR / 3'-0" / 29	FINNED TUBE RADIATOR ACTIVE ELEMENT LENGTH EQUIPMENT UNIT IDENTIFICATION EQUIPMENT UNIT NUMBER RADIATOR ENCLOSURE LENGTH (OR W-W=WALL-TO-WALL)
	X	KEY NOTE REFERENCE
	1	KITCHEN/OWNER/MEDICAL EQUIPMENT REFERENCE
		TYPICAL ROOM REFERENCE (TOP = RM #, BOTTOM = FLR)
		POINT OF CONNECTION, NEW TO EXISTING
		POINT OF DISCONNECTION, DEMO
		DIRECTION OF FLOW IN PIPE
		DUCTWORK, PIPING AND EQUIPMENT TO BE REMOVED
(E)		EXISTING
(N)		NEW
(R)		RELOCATED
(F)		FUTURE
DIA	Ø	DIAMETER
WAD		WALL ACCESS DOOR
NIC		NOT IN CONTRACT
AFF		ABOVE FINISHED FLOOR
GC		GENERAL CONTRACTOR
MC		MECHANICAL CONTRACTOR
EC		ELECTRICAL CONTRACTOR
UNO		UNLESS NOTED OTHERWISE
C		COMMON
NC		NORMALLY CLOSED
NO		NORMALLY OPEN

ABBR.	SYMBOL	DESCRIPTION
		CAP END OF PIPE
	SLOPE	PITCH DOWN IN DIRECTION OF ARROW
		PIPE ANCHOR
		PIPE ALIGNMENT GUIDE
		UNION OR FLANGE
		CONCENTRIC PIPE REDUCER
		ECCENTRIC PIPE REDUCER
PRV		PRESSURE REDUCING VALVE
PTRV		PRESSURE AND/OR TEMPERATURE RELIEF VALVE
		ISOLATION VALVE (RE: SPEC FOR TYPE)
		VERTICAL PIPE VALVE
CV		CHECK VALVE
		SOLENOID / MOTORIZED VALVE
		SOLENOID VALVE
		HOSE END DRAIN VALVE
P/T	P/T	PRESSURE / TEMPERATURE TAP
		STRAINER
		STRAINER W/ BLOWDOWN
		BRAIDED FLEXIBLE PIPE CONNECTOR
		DOUBLE-BOWL FLEXIBLE PIPE CONNECTOR
		THERMOMETER
		PRESSURE GAUGE
		SIGHT GLASS
C.A.P.		CEILING ACCESS PANEL
		PUMP
TB		THRUST BLOCK
MAV		MANUAL AIR VENT
AAV		AUTOMATIC AIR VENT

PLUMBING LEGEND
(Not all symbols listed below are used on these drawings)

ABBR.	SYMBOL	DESCRIPTION
CW	——CW——	DOMESTIC COLD WATER PIPING
HW	——HW——	DOMESTIC HOT WATER PIPING
HWC	——HWC——	DOMESTIC HOT WATER CIRC PIPING
CW-S	——CW-S——	SOFTENED DOMESTIC COLD WATER PIPING
HW-S	——HW-S——	SOFTENED DOMESTIC HOT WATER PIPING
140°F HW	——140°F HW	DOMESTIC HOT WATER PIPING @ TEMP SHOWN
140°F HWC	——140°F HWC	DOMESTIC HOT WATER CIRC PIPING @ TEMP SHOWN
TW	——TW——	TEPID WATER PIPING
TWC	——TWC——	TEPID WATER CIRC PIPING
ICW	——ICW——	INDUSTRIAL COLD WATER PIPING
IHW	——IHW——	INDUSTRIAL HOT WATER PIPING
IHWC	——IHWC——	INDUSTRIAL HOT WATER CIRC PIPING
NPCW	——NPCW——	NON-POTABLE COLD WATER PIPING
NPHW	——NPHW——	NON-POTABLE HOT WATER PIPING
NPHR	——NPHR——	NON-POTABLE HOT WATER CIRC PIPING
V	——V——	VENT PIPING
AV	——AV——	ACID RESISTANT VENT PIPING
W	——W——	WASTE PIPING
W	——W——	WASTE PIPING BELOW FLOOR
AW	——AW——	ACID RESISTANT WASTE PIPING
AW	——AW——	ACID RESISTANT WASTE PIPING BELOW FLOOR
GW	——GW——	GREASE WASTE (TO GREASE INTERCEPTOR)
GW	——GW——	GREASE WASTE PIPING BELOW FLOOR
SD	——SD——	STORM DRAIN PIPING
SD	——SD——	STORM DRAIN PIPING BELOW FLOOR
OD	——OD——	OVERFLOW DRAIN PIPING
OD	——OD——	OVERFLOW DRAIN PIPING BELOW FLOOR
CA	——CA——	COMPRESSED AIR
G	——G——	NATURAL GAS PIPING

ABBR.	SYMBOL	DESCRIPTION
GCO/SCO		GRADE CLEANOUT / SURFACE CLEANOUT
FCO		FLOOR CLEANOUT
WCO		WALL CLEANOUT
CO		LINE CLEANOUT
AD		AREA DRAIN
FD		FLOOR DRAIN
FS		FLOOR SINK
RD / OD		ROOF DRAIN OR OVERFLOW DRAIN
VB		ATMOSPHERIC VACUUM BREAKER
BFP		BACKFLOW PREVENTER
SA		SHOCK ARRESTOR W / ISOLATION VALVE
GC		GAS SHUT-OFF VALVE
		STOP AND DRAIN VALVE
BV		BALANCING VALVE
WH		WALL HYDRANT
HB		HOSE BIBB
RH		ROOF HYDRANT
YH		YARD HYDRANT
DSN		DOWNSPOUT NOZZLE
MH		MANHOLE
CI		CAST IRON
CB		CATCH BASIN
VTR		VENT THRU ROOF
IE		INVERT ELEVATION
PVC		POLYVINYL CHLORIDE

GENERAL NOTES:

1. WORK INCLUDED IN THE CONTRACT IS DENOTED IN BOLD. EXISTING CONDITIONS TO REMAIN ARE DENOTED LIGHTLY.
2. A DETAILED METHOD OF PROCEDURE IS REQUIRED WHEN A CONSTRUCTION ACTIVITY AFFECTS THE SAFETY OF THE OCCUPANTS, OWNER'S EQUIPMENT OR VALUABLE CONTENTS OR ANY SYSTEM WHICH SUPPORTS THESE SYSTEMS, OR ESSENTIALLY AFFECTS THE BUILDING MANAGEMENT, OPERATIONS OR SECURITY.
3. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK AND SHALL NOTIFY THE ENGINEER/ARCHITECT OF ANY DISCREPANCIES FOR RESOLUTION.
4. COORDINATE WORK WITH ALL TRADES.
5. CONTRACTOR IS RESPONSIBLE FOR SECURING AND WEATHERPROOFING ANY ROOF OPENING NOT COMPLETED DURING WORKING HOURS.
6. COORDINATE ALL PIPING WITH EQUIPMENT, STRUCTURE, ETC.
7. CONTRACTOR SHALL NOT SHUT DOWN / TAKE OUT OF SERVICE ANY SYSTEMS WITHOUT FIRST COORDINATING WITH OWNER AND PREPARING M.O.P.

PLUMBING NOTES:

1. CONTRACTOR SHALL NOT SHUT-OFF/PUT OUT OF SERVICE ANY SYSTEMS/SERVICES WITHOUT FIRST COORDINATING WITH OWNER.
2. THIS CONTRACTOR SHALL COORDINATE LOCATIONS OF PIPING WITH OTHER TRADES AND ADVISE ARCHITECT/ENGINEER OF ANY POSSIBLE CONFLICTS. VERIFY EXACT LOCATIONS, ELEVATIONS AND DIMENSIONS OF STRUCTURAL MEMBERS AND OPENINGS.
3. SEE SPECIFICATIONS FOR WATER HAMMER ARRESTOR SIZING. ALL FLUSH VALVES AND SOLENOID OPERATED EQUIPMENT SHALL HAVE A WATER HAMMER ARRESTOR.
4. SEE PLUMBING FIXTURE SCHEDULE FOR PIPE SIZING TO INDIVIDUAL PLUMBING FIXTURES.
5. ALL EXISTING FIXTURES AND EQUIPMENT TO BE REMOVED SHALL HAVE ALL ASSOCIATED PIPING CONTROLS, HANGERS, SUPPORTS AND ANY MISCELLANEOUS ASSOCIATED SERVICE OR PART REMOVED COMPLETELY.
6. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF PENETRATION DETAILS.
7. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE ELEVATIONS AND LOCATIONS.
8. INVERT ELEVATIONS SHOWN ARE BASED ON A GROUND FLOOR FINISH ELEVATION OF 100'-0".
9. SEE ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR DIMENSIONED LOCATION OF PLUMBING FIXTURES AND WALLS.
10. PROVIDE CLEANOUTS IN ACCESSIBLE LOCATIONS PER THE PROJECT SPECIFICATIONS AND LOCAL PLUMBING CODES.

FOUNDATION PLUMBING NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK.
2. COORDINATE WORK WITH ALL TRADES.
3. SEE ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR EXACT LOCATION OF PLUMBING FIXTURES AND WALLS.
4. PROVIDE A WALL CLEANOUT ON ALL VERTICAL VENT PIPING SERVING BELOW GRADE HORIZONTAL WASTE PIPING.

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Jeff Jesse

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PLUMBING LEGENDS & NOTES

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PLUMBING FIXTURE SCHEDULE

NOTES:
1. REFER TO GENERAL SPECIFICATIONS FOR WATER CLOSETS, URINALS, LAVATORIES, SINKS AND MISCELLANEOUS FIXTURE REQUIREMENTS.
2. GRAB BARS BY ARCHITECT.
3. THIS SCHEDULE INCLUDES ITEMS THAT MAY NOT BE INCLUDED IN THE DRAWING DOCUMENTS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND MOUNTING HEIGHT.

	FIXTURE					TRIM		ELECTRICAL ACCESSORY REQUIREMENTS I,R/BATTERY/HP		CONNECTIONS				
DESIG.	FIXTURE NAME	FIXTURE DESCRIPTION	MANUFACTURER	MODEL	SIZE	MANUFACTURER	MODEL		FLOW	WASTE	VENT	CW	HW	REMARKS
HB-1	HOSE BIB	ANTI-SIPHON FREEZELES WALL HYDRANT	WOODFORD	65	N/A	N/A	N/A	N/A	-	-	-	3/4"	-	COORDINATE LENGTH WITH WALL THICKNESS
HB-2	HOSE BIB	INDOOR HOSE BIBB WITH TEE KEY AND VACUUM BREAKER, PROVIDE CHROME PLATED FINISH OVER CAST BRASS.	WOODFORD	24P	N/A	N/A	N/A	N/A	-	-	-	3/4"	-	
LAV-1 (ADA)	LAVATORY (ADA)	UNDERMOUNT, SELF-RIMMING, VITREOUS CHINA 17" DIA., MANUAL OPERATED FAUCET	AMERICAN STANDARD	0495.300	14-1/8" X 17 1/8"	AMERICAN STANDARD	7353.101	MANUAL	1.2 GPM	1 1/2"	1 1/2"	1/2"	1/2"	PROVIDE TRAP, TAILPIECE AND ANGLE STOPS. PROVIDE WITH ASSE 1070 MIXING VALVE AND PRE-FABRICATED INSULATION KIT ON ALL EXPOSED PIPING. INSTALL PER ADA STANDARDS.
S-1 (ADA)	1 COMPT. SINK (ADA)	SELF-RIMMING, STAINLESS STEEL, 19" X 18" X 6 1/2", 1-HOLE PUNCH, CENTER DRAIN, MANUAL OPERATED FAUCET	ELKAY	LRAD191865 PD	19" X18" X 6 1/2"	ELKAY	LKAV3031	MANUAL	1.8 GPM	2"	1 1/2"	1/2"	1/2"	MATTE BLACK FAUCET FINISH. PROVIDE TRAP, TAILPIECE AND ANGLE STOPS. PROVIDE WITH ASSE 1070 MIXING VALVE. INSTALL PER ADA STANDARDS.
SH-1 (ADA)	SHOWER (ADA)	BARRIER-FREE DESIGN, SMOOTH WALL, GELCOAT ENCLOSURE, PRE-LEVELED BASE, CENTER DRAIN. PROVIDE DRAIN, FOLD-UP SEAT, PRESSURE BALANCING MIXING VALVE, HAND HELD SHOWER HEAD WITH SLIDE BAR, SOAP DISH, CURTAIN ROD WITH SHOWER CURTAIN, COORDINATE ROUGH-IN OPENING SIZE WITH GENERAL CONTRACTOR PRIOR TO WORK COMMENCING. MECHANICAL CONTRACTOR TO VERIFY IF RIGHT HAND OR LEFT HAND SHOWER IS REQUIRED. INSTALL PER ADA GUIDELINES.	AQUATIC	1363BFSC	38" X 38-1/4" X 77"	AQUATIC	1363BFSC	MANUAL	-	2"	2"	1/2"	1/2"	WHITE TRIM
TMV-1	THERMOSTATIC MIXING VALVE	HOT WATER TEMPERATURE CONTROL VALVE	WATTS	N-170-M3	NA	N/A	N/A	N/A	5/115 GPM	-	-	1"	1"	
WC-1 (ADA)	WATER CLOSET (ADA)	WALL MOUNTED, ELONGATED BOWL, WITH BATTERY OPERATED DUAL FLUSH VALVE	AMERICAN STANDARD	3351.576	N/A	SELECTRONIC	3351.576	BATTERY	1.1/1.6 GPF	4"	2"	1"	-	PROVIDE WITH AMERICAN STANDARD TOILET SEAT MODEL NUMBER 5901.100. PROVIDE ANGLE STOP, INSTALL PER ADA STANDARDS.

DOMESTIC WATER HEATER AND STORAGE TANK SCHEDULE

REMARKS:
1. REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS, INCLUDING COORDINATION OF VOLTAGE, PHASE, SCCR, WIRE SIZES, AND OVERCURRENT PROTECTIVE DEVICES (OCPD). REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR MINIMUM FAULT CURRENT RATING THAT EACH UNIT SHALL EXCEED.
2. UNIT NAMEPLATE SHALL INDICATE THE SHORT CIRCUIT CURRENT RATING.
3. GPM PERFORMANCE FOR GAS WATER HEATERS IS DERATED DUE TO PROJECT ELEVATION.
4. REFER TO MECHANICAL LEGENDS AND NOTES SHEET FOR PROJECT ELEVATION.

DESIG.						MBH NATURAL GAS					DOMESTIC WATER CONDITIONS					ELECTRICAL		SIZE (INCHES)					
NAME	NO.	MFR.	MODEL	LOCATION	EFFICIENCY RATING	INPUT AT S.L.	OUTPUT AT S.L.	OUTPUT AT ELEV.	PRESSURE LOW (IN WC)	PRESSURE HIGH (IN WC)	RECOVERY RATE (GPH)	TEMP RISE (°F)	EWT (°F)	LWT (°F)	STORAGE CAPACITY (GAL)	VOLTAGE	PHASE	DIA	L	W	H	OPER. WEIGHT (LBS)	REMARKS
WH	1	AO SMITH	BTH-199(A)	FIRE RISER ROOM	97	199	193.0	164.0	3.5	14	235	95	55	150	100.0	120	1	28	31	28	76	523	1-4

DOMESTIC HOT WATER THERMAL EXPANSION TANK SCHEDULE

REMARKS:
1. ALL MATERIALS IN CONTACT WITH WATER SHALL BE NSF/ANSI 61 COMPLIANT.

DESIG.					TANK			SIZE (INCHES)			
NAME	NO.	TYPE	MANUFACTURER	MODEL	TOTAL VOL (GAL)	ACCEPTANCE FACTOR	ACCEPTANCE VOL (GAL)	DIA	H	WEIGHT (LBS)	REMARKS
DET	1	DIAPHRAGM	AMTROL THERM-X-TROL	ST-12	4.4	0.73	3.2	11	15	36	1

PLUMBING PUMP SCHEDULE

REMARKS:
1. REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS, INCLUDING COORDINATION OF VOLTAGE, PHASE, SCCR, WIRE SIZES, AND OVERCURRENT PROTECTIVE DEVICES (OCPD). REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR MINIMUM FAULT CURRENT RATING THAT EACH UNIT SHALL EXCEED. UNIT NAMEPLATE SHALL INDICATE THE SHORT CIRCUIT CURRENT RATING.
2. SET TO LOW SPEED.

DESIG.						PIPE SIZE					MOTOR			
TYPE	NO.	MFR.	MODEL	PUMP TYPE	SERVICE	SUCTION (IN.)	DISCHARGE (IN.)	MAX PUMP OPER (°F)	GPM	TOTAL DYNAMIC HEAD (FT.)	RPM	VOLTAGE	PHASE	REMARKS
DCP	1	BELL AND GOSSETT	NBF-25	INLINE CIRCULATOR	DOMESTIC HOT WATER RECIRCULATION	1.00	1.00	120	1.5	7.5	2950	115	1	1,2

PLUMBING SPECIALTY SCHEDULE

NOTES:
1.

DESIG.	FIXTURE TYPE	LOCATION	MANUFACTURER	MODEL #	REMARKS
FD-1	FLOOR DRAIN	TOILET ROOM / SHOWERS	J.R. SMITH	2005Y-05-P05 0-NB	CAST IRON DRAIN, 5" MINIMUM STRAINER SIZE, ROUND GRATE. PROVIDE WITH TRAP PRIMER.
FS-1	FLOOR SINK	MECHANICAL ROOM	J.R. SMITH	3101	CAST IRON FLOOR SINK W/ BUCKET STRAINER, ACID RESISTANT ENAMEL COATED, WITH HALF GRATE. PROVIDE WITH TRAP PRIMER. SEE PLANS FOR SIZE.
TD-1	TRENCH DRAIN	APP BAYS	J.R. SMITH	9878	10" WIDE TRENCH DRAIN SYSTEM WITH INTEGRAL DUCTILE IRON EDGE RAIL. PROVIDE TRENCH DRAIN WITH EXTRA HEAVY DUTY LOAD CLASS E DUCTILE IRON SLOTTED GRATE RATED FOR COMMERCIAL TRUCK TRAFFIC. REFERENCE ARCHITECTURAL PLANS FOR OVERALL DIMENSIONS. PROVIDE WITH 4" BOTTOM OUTLET. SEAL CHANNEL JOINTS WITH MANUFACTURER'S APPROVED SEALANT AND PER MANUFACTURER'S INSTRUCTIONS. PROVIDE WITH TRAP PRIMER. CONNECT TRAP PRIMER TO PRIMER PANEL.
TP-1	TRAP PRIMER	SEE PLANS	PPP	PTS	CONTRACTOR TO VERIFY NUMBER OF OUTLETS REQUIRED.

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Project: TWIN FALLS TRAINING FACILITY
420 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

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Project No:	19-029
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Sheet Name:
PLUMBING SCHEDULES

Sheet No:
P0.02

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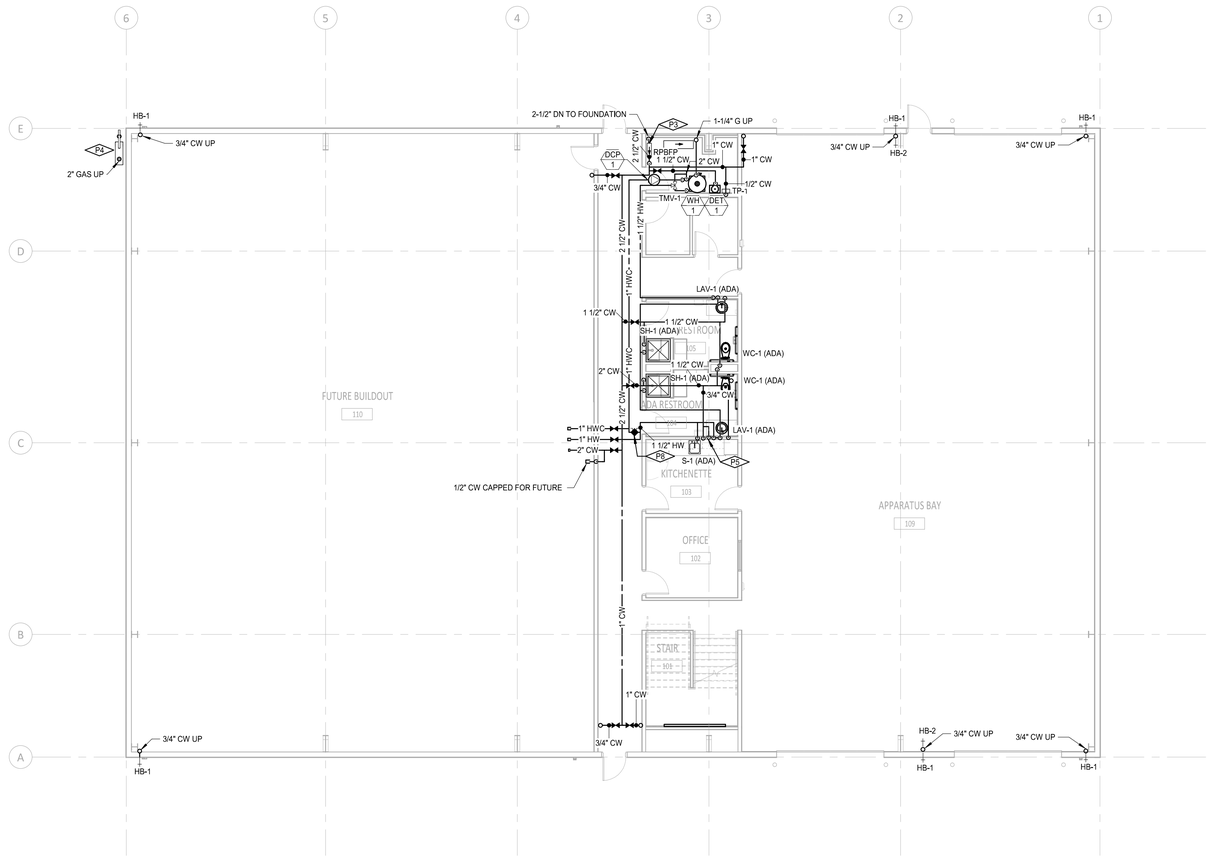
KEYNOTES

P3	WATTS LF009 RPBP DRAINS INTO FLOOR SINK.
P4	0.5 PSI GAS METER. COORDINATE WITH INTERMOUNTAIN GAS. GAS SERVICE LINE SHALL BE SLEEVED UP TO 6" ABOVE FINISHED GRADE FOR VENTING TO ATMOSPHERE.
P5	ROUTE 1/2" CW TO ICE MAKER. PROVIDE WITH WATTS LF009 REDUCED PRESSURE BACKFLOW PREVENTER. DRAIN TO FLOOR SINK.
P8	1.5 GPM

BUILDING NATURAL GAS LOAD SUMMARY

TAG	EQUIPMENT DESCRIPTION	MBH
WH-1	WATER HEATER	199.9
GRH-1	GAS RADIANT HEATER	40
GRH-2	GAS RADIANT HEATER	40
GRH-3	GAS RADIANT HEATER	40
GRH-4	GAS RADIANT HEATER	40
MAU-1	MAKEUP AIR UNIT	200
F-1	FURNACE	80
	TOTAL	640



LEVEL 1 - DOMESTIC WATER PLAN

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

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LEVEL 1 - DOMESTIC WATER PLAN

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P2.01

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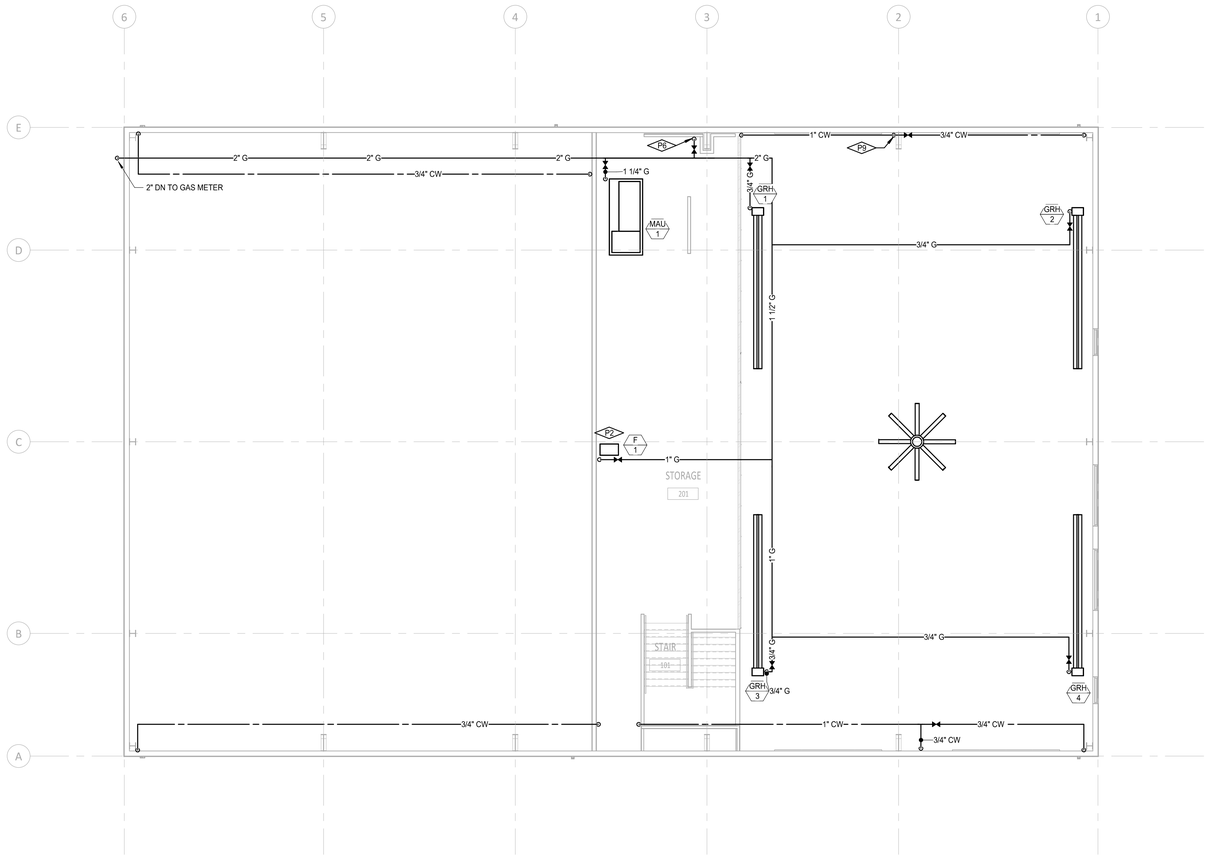
KEYNOTES	
P2	GRAVITY DRAIN CONDENSATE FULL SIZED FROM FURNACE DOWN INTO NEAREST SINK WYE TAILPIECE IN RESTROOM BELOW USING A COPPER DRAIN PIPE. ENSURE FURNACE CONDENSATE IS ROUTED THROUGH ACID NEUTRALIZATION KIT PRIOR TO DRAIN.
P6	1-1/4" GAS LINE DOWN TO WH-1.
P9	3/4" CW WITH ISOLATION VALVE DROPS DOWN AND TEES OFF TO SERVE BOTH HOSE BIBS.



LEVEL 2 - DOMESTIC WATER PLAN
SCALE: 1/8" = 1'-0"

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LEVEL 2 - DOMESTIC WATER PLAN

Sheet No:
P2.02

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1"
IF LINE DOES NOT MEASURE 1 INCH, DRAWING IS NOT TO SCALE

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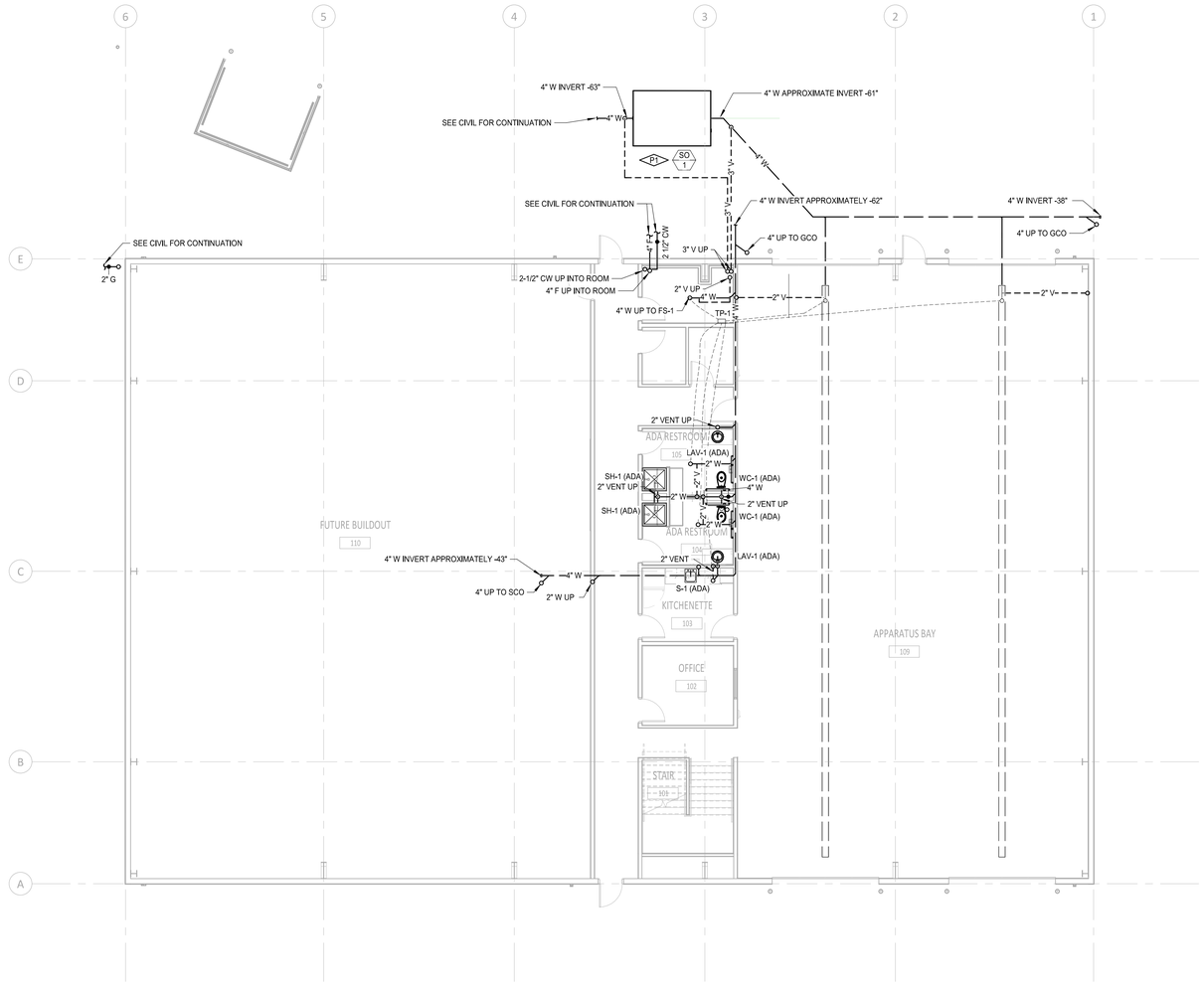
KEYNOTES	
P1	1,000 GALLON SAND AND OIL INTERCEPTOR. SEE INTERCEPTOR DETAIL ON SHEET P5.01 FOR MORE INFORMATION.



FOUNDATION - WASTE & VENT PLAN

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

1"
IF LINE DOES NOT MEASURE 1 INCH, DRAWING IS NOT TO SCALE

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FOUNDATION - WASTE & VENT PLAN

Sheet No:
P2.10

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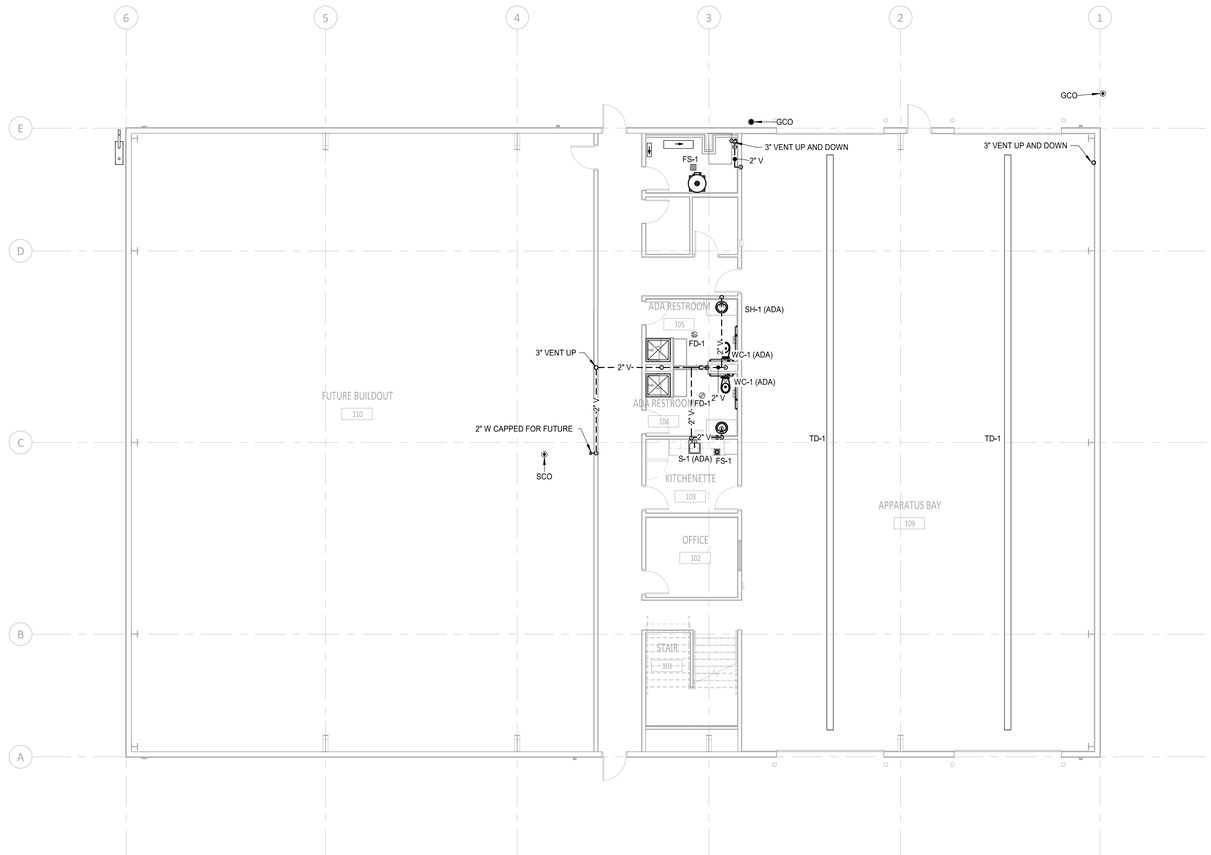
KEYNOTES



LEVEL 1 - WASTE & VENT PLAN
SCALE: 1/8" = 1'-0"

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LEVEL 1 - WASTE & VENT PLAN

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P2.11

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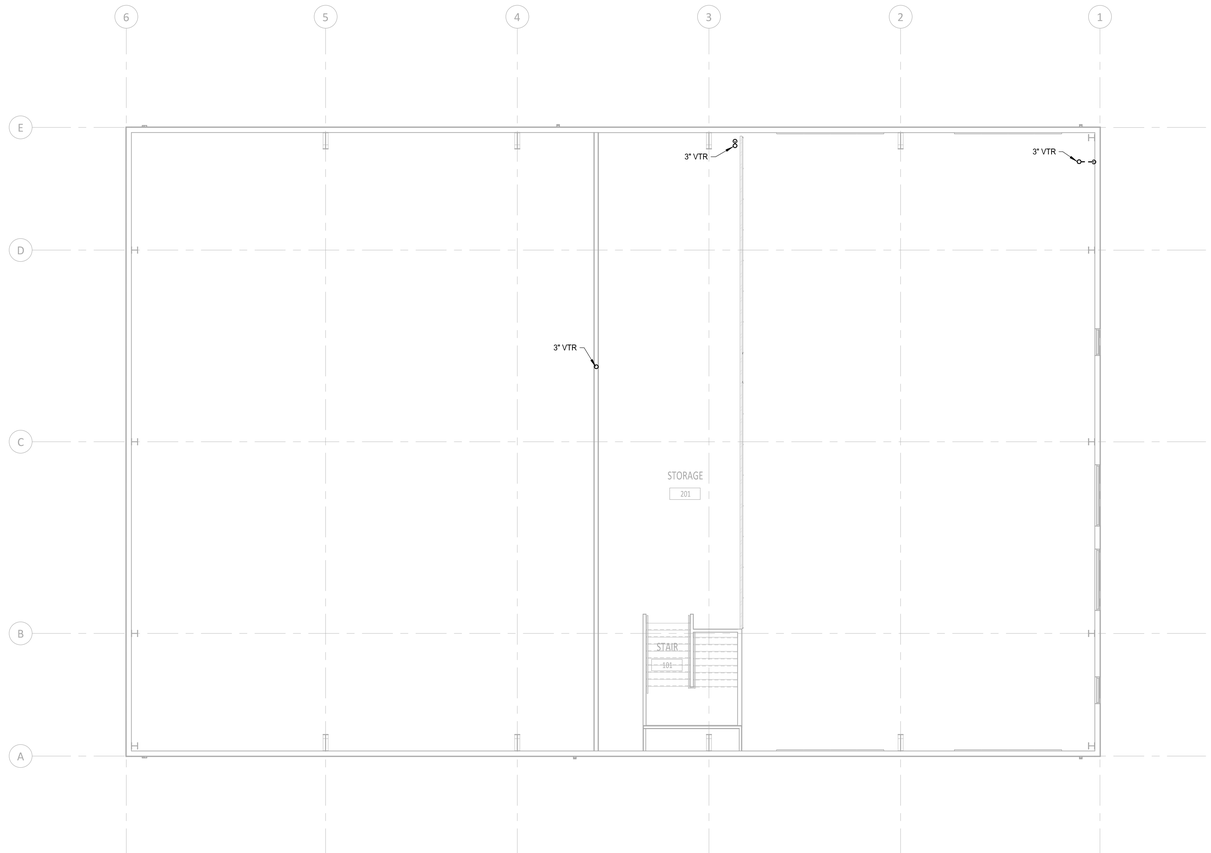
KEYNOTES



LEVEL 2 - WASTE & VENT PLAN

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

1"

IF LINE DOES NOT MEASURE 1 INCH, DRAWING IS NOT TO SCALE

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LEVEL 2 - WASTE & VENT PLAN

Sheet No:

P2.12

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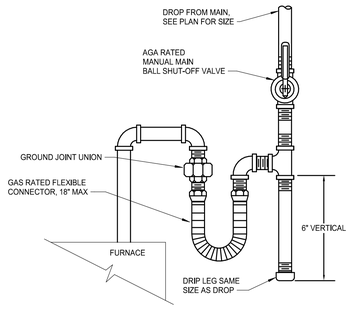
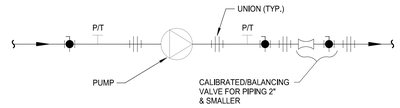


GAS LINE CONNECTION DETAIL

SCALE: NONE

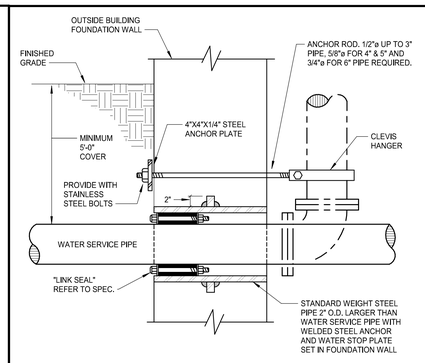
1123-02



DOMESTIC HOT WATER CIRC. IN-LINE PUMP PIPING DETAIL

SCALE: NONE

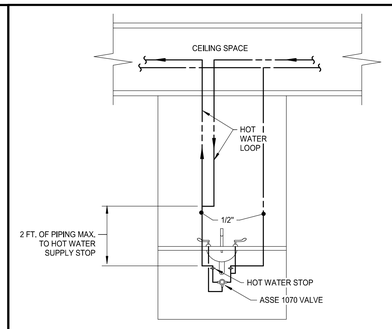
1023-03



WATER SERVICE SLEEVE DETAIL

SCALE: NONE

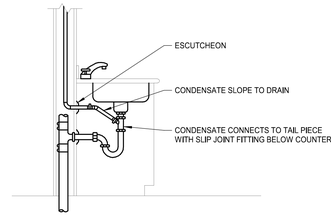
1110-02



HOT WATER RECIRCULATION DETAIL FOR PUBLIC LAVATORY FAUCETS

SCALE: NONE

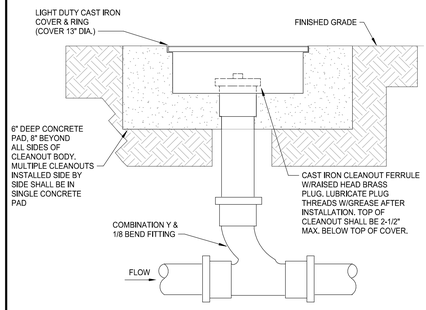
1110-09



CONDENSATE TO LAVATORY DETAIL

SCALE: NONE

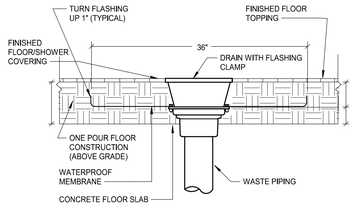
1319-09



GRADE CLEANOUT DETAIL

SCALE: NONE

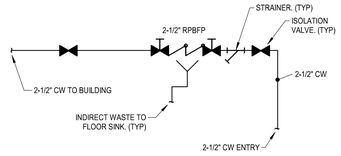
1319-04



FLOOR/SHOWER DRAIN FLASHING DETAIL

SCALE: NONE

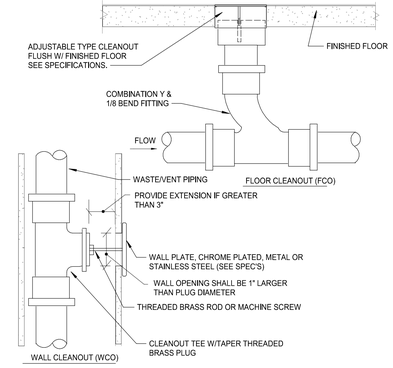
1319-05



DOMESTIC WATER ENTRY DETAIL

SCALE: NONE

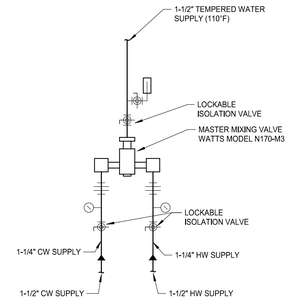
1000-05



CLEANOUT DETAIL

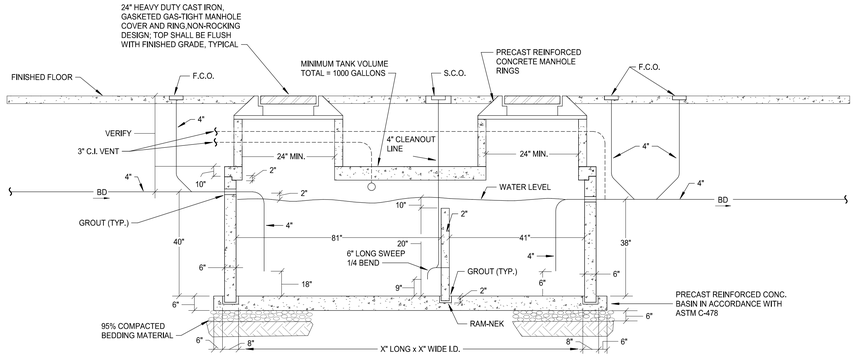
SCALE: NONE

1319-08



MASTER TEMPERING VALVE PIPING DETAIL

SCALE: NONE



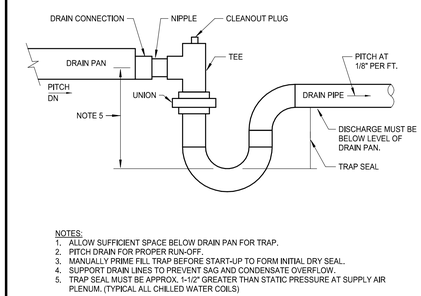
NOTES

1. SEAL ALL PENETRATIONS WATERTIGHT.
2. SEE PLANS FOR PIPE SIZES, INVERT ELEVATIONS AND ROUTING.
3. SECONDARY COMPARTMENT HAS VOLUME EQUAL TO 1/3 OF TOTAL CAPACITY.
4. ALL PIPE AND FITTINGS SHALL BE CAST IRON.
5. WALLS AND BOTTOM SHALL BE REINFORCED THROUGHOUT WITH 2x6, 6/10 MESH.
6. COVER SHALL BE REINFORCED LONGITUDINALLY WITH NO. 6 REBAR ON 6" CENTERS, NO. 4 REBAR ON 6" CENTERS WIDTH WAYS, AND NO. 8 REBAR DIAGONALLY AROUND ACCESS HOLES.
7. S. & O. INTERCEPTOR SHALL MEET THE APPROVAL OF LOCAL AUTHORITY.
8. ALL CONSTRUCTION SHALL CONFORM TO H-20 LIVE LOAD LOADING.
9. INTERCEPTOR WALLS AND BOTTOM SLAB SHALL E DESIGNED FOR AN EQUIVALENT FLUID SOIL PRESSURE OF 30 Pcf/ft, INCLUDING TRUCK LEADING SURCHARGE NOTED IN NOTE 8 ABOVE
10. DESIGN CRITERIA: UNIT WEIGHT OF SOIL = 120 Pcf, LIVE LOADS = AASHTO H-20, CONCRETE STRENGTH = 4000 Psi. (TYPE II CEMENT).

SAND AND OIL INTERCEPTOR DETAIL

SCALE: NONE

1323-02



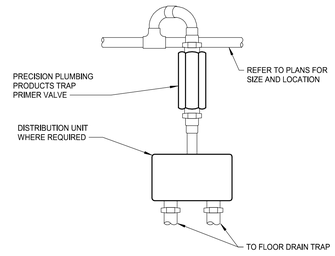
NOTES:

1. ALLOW SUFFICIENT SPACE BELOW DRAIN PAN FOR TRAP.
2. PITCH DRAIN FOR PROPER RUN-OFF.
3. MANUALLY PRIME FILL TRAP BEFORE START-UP TO FORM INITIAL DRY SEAL.
4. SUPPORT DRAIN LINES TO PREVENT SAG AND CONDENSATE OVERFLOW.
5. TRAP SEAL MUST BE APPROX. 1-1/2" GREATER THAN STATIC PRESSURE AT SUPPLY AIR PLENUM. (TYPICAL ALL CHILLED WATER COILS)

CONDENSATE DRAIN PIPING DETAIL

SCALE: NONE

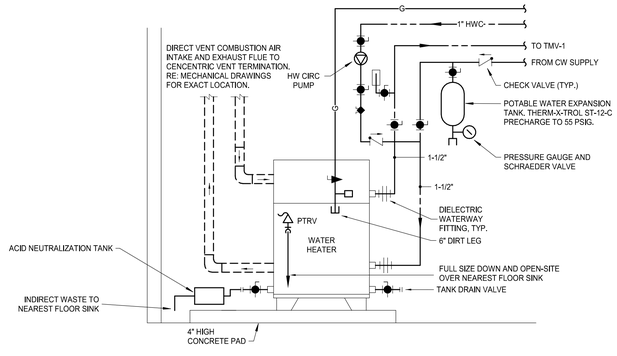
8000-19



TRAP PRIMER DETAIL

SCALE: NONE

1119-07



CONDENSING GAS WATER HEATER PIPING DETAIL

SCALE: NONE

3000-07 05.04.22

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POWER LEGEND
(Not all symbols listed below are used on these drawings)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SINGLE RECEPTACLE		ELECTRICAL PANELBOARD, CONTROL PANEL, OR OTHER CABINET AS NOTED
	DUPLEX RECEPTACLE	PM	PLUG MOLD (MULTI-OUTLET ASSEMBLY)
	DOUBLE DUPLEX RECEPTACLE	WM	WIREMOLD (SURFACE RACEWAY)
	DUPLEX RECEPTACLE, HALF SWITCHED		CONDUIT CONCEALED
CLG	DUPLEX RECEPTACLE, CEILING MOUNTED	UG	CONDUIT, UNDERGROUND OR CONCEALED IN FLOOR AS ALLOWED PER SPECIFICATIONS
	DUPLEX RECEPTACLE, FLOOR MOUNTED		CONDUIT TURNING DOWN
	DOUBLE DUPLEX RECEPTACLE, FLOOR MOUNTED		CONDUIT TURNING UP
	SPECIAL RECEPTACLE		CONDUIT CAPPED
	SPECIAL RECEPTACLE, FLOOR MOUNTED		GROUND BAR
	JUNCTION BOX, FLOOR OR CEILING MOUNTED		MAIN SWITCHBOARD/DISTRIBUTION CENTER
	JUNCTION BOX, WALL MOUNTED	T	TRANSFORMER
M	MOTOR	CT	CURRENT TRANSFORMER
	DISCONNECT SWITCH (NON-FUSED)	T	THERMOSTAT
	DISCONNECT SWITCH (FUSED)	GANN	GENERATOR ANNUNCIATOR PANEL
	VARIABLE SPEED DRIVE WITH DISCONNECT	A-1	SHADING INDICATES EMERGENCY SYSTEM TEXT INDICATES PANEL AND CIRCUIT DESIGNATION
	ENCLOSED CIRCUIT BREAKER		UTILITY METER
S	TOGGLE SWITCH		POWER POLE

LIGHTING LEGEND
(Not all symbols listed below are used on these drawings)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A	SHADING INDICATES EM SYSTEM, LOWER CASE SUBSCRIPT INDICATES SWITCHING, UPPER CASE SUBSCRIPT INDICATES LUMINAIRE TYPE (TYP)		PENDANT LUMINAIRE - SINGLE SUSPENSION
	TROFFER - RECESSED		PENDANT LUMINAIRE - MULTIPLE SUSPENSION
	SURFACE LUMINAIRE		WALL MOUNTED LUMINAIRE
	LINEAR LUMINAIRE - RECESSED		IN-WALL LUMINAIRE
A B	FIELD MEASURED LUMINAIRE LENGTH AND SHAPE DENOTED BY LINEWORK SUBSCRIPT IN RECTANGLE INDICATES LUMINAIRE TYPE		POLE LUMINAIRE - ARM MOUNTED
	DOWNLIGHT - RECESSED		POLE LUMINAIRE - POST TOP
	DOWNLIGHT - SURFACE		BOLLARD
	EXIT SIGN - CEILING MOUNTED		TRACK HEAD AND TRACK
	EXIT SIGN - WALL MOUNTED (FLUSH TO WALL)		EXTERIOR STAKE MOUNTED
	EXIT SIGN - WALL MOUNTED (PROJECTS FROM WALL)		EMERGENCY LIGHTING UNIT - WALL MOUNTED
	INDICATES EXIT SIGN FACES - SINGLE OR DOUBLE		EMERGENCY LIGHTING UNIT - CEILING MOUNTED
	INDICATES EXIT SIGN CHEVRONS - LEFT/RIGHT OR BOTH		INDICATES DIRECTIONAL AIMING
	CONTROLLED DAYLIGHTING ZONE. FIXTURES COMPLETELY/PARTIALLY WITHIN THE BOUNDARY OF THE DAYLIGHT ZONE (SEE LIGHTING PLAN) TO BE CONTROLLED BY PHOTOCELL TO BE PLACED WITHIN THIS REGION.		UN-CONTROLLED DAYLIGHTING ZONE. THIS REGION EXPOSED TO EXTERIOR GLAZING IS EXEMPTED FROM THE REQUIREMENTS FOR DAYLIGHT CONTROLS BASED ON ONE OF THE EXEMPTIONS LISTED IN IECC 2018, C405.2.3.2-3.

CONTROLS LEGEND
(Not all symbols listed below are used on these drawings)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
S_A	SINGLE POLE SWITCH (SUBSCRIPT DENOTES SWITCHING)	S_{VS}	VARIABLE SPEED/SPEED CONTROLLER SWITCH
S_2	TWO POLE SWITCH	S_{EP}	EXPLOSION PROOF SWITCH
S_3	THREE-WAY SWITCH	S_{TO}	THERMAL OVERLOAD SWITCH
S_4	FOUR-WAY SWITCH	S_{MC}	MOMENTARY CONTACT SWITCH
S_K	KEY OPERATED SWITCH	S	COMBINATION SWITCH AND DUPLEX RECEPTACLE
S_M	MANUAL SWITCH, HORSEPOWER RATE	P	PHOTOCELL
S_D	DIMMER SWITCH		PUSH BUTTON
S_{PI}	SWITCH WITH PILOT LIGHT (PILOT LIGHT IS 'ON' WHEN SWITCH IS 'ON')	TC	TIME CLOCK
S_P	SWITCH WITH PILOT LIGHT LOCATOR (CONTINUOUSLY LIGHTED HANDLE)		OCCUPANCY SENSOR - WALL MOUNTED IR=INFRARED, US=ULTRASONIC, DT=DUAL TECHNOLOGY
S_{LV}	LOW VOLTAGE SWITCH		

FIRE ALARM SYSTEM LEGEND
(Not all symbols listed below are used on these drawings)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL	F	MANUAL PULL STATION
NAC	FIRE ALARM (NAC) POWER SUPPLY	AIM	ADDRESSABLE INPUT MODULE
LCD	FIRE ALARM REMOTE ANNUNCIATOR PANEL (LCD)	AOM	ADDRESSABLE OUTPUT MODULE
FAA	FIRE ALARM ANNUNCIATOR PANEL (LED)		FIRE ALARM STROBE (cd= CANDELA RATING 15, 30, 75, 95, 110, 177)
TPR	FIRE ALARM TRANSPONDER PANEL		MASS NOTIFICATION STROBE (cd= CANDELA RATING 15, 30, 75, 95, 110, 177)
RACP	RESCUE ASSISTANCE SYSTEM BASE UNIT		FIRE ALARM HORN/VISIBLE (C = CEILING MOUNT))
ARCM	AREA OF REFUGE COMMUNICATION MASTER UNIT		FIRE ALARM SPEAKER/VISIBLE (C = CEILING MOUNT))
ARCR	AREA OF REFUGE COMMUNICATION REMOTE UNIT		MASS NOTIFICATION SPEAKER/VISIBLE (C = CEILING MOUNT))
MAP	GRAPHIC ZONE MAP	H	FIRE ALARM HORN (C = CEILING MOUNT))
FFSC	FIRE FIGHTER SMOKE CONTROL PANEL	H	FIRE ALARM SPEAKER (C = CEILING MOUNT))
S, B, T	SMOKE DETECTOR (P=PHOTOELECTRIC, SB=WITH SOUNDER BASE, BR=BEAM RECEIVER, BT=BEAM TRANSMITTER)	H	MASS NOTIFICATION SPEAKER (C = CEILING MOUNT))
CO, CO/A	SMOKE ALARM (120 VAC SINGLE STATION)	RA	RESCUE ASSISTANCE TELEPHONE STATION
H, S, T	HEAT DETECTOR (F = FIXED TEMPERATURE, R = RATE OF RISE)	X	FIRE FIGHTER TELEPHONE (J = JACK, H = HANDSET)
S, RTS	DUCT SMOKE DETECTOR S=SUPPLY, R=RETURN	DH, DH	MAGNETIC DOOR HOLD
RTS	DUCT DETECTOR REMOTE INDICATOR ALARM AND TEST	VS	TAMPER SWITCH
IN, RI	REMOTE INDICATOR LIGHT	WF	FLOW DETECTOR SWITCH
S	FIRE/SMOKE DAMPER	PS	PRESSURE SWITCH
S	SMOKE DAMPER	SS	SURGE SUPPRESSOR
H, CO, CO	CARBON MONOXIDE ALARM/DETECTOR	H, X, X	FLAME DETECTOR (UV=ULTRAVIOLET, IR=INFRARED)

ONE-LINE DIAGRAM LEGEND
(Not all symbols listed below are used on these drawings)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DISCONNECT SWITCH	A	PANELBOARD "A"
	DISCONNECT SWITCH, FUSED	PM	EM=ENERGY METER, PM=POWER METER, CM=CIRCUIT MONITOR
	CIRCUIT BREAKER	VS	VOLTMETER TEST SWITCH
	FUSE	AS	AMMETER TEST SWITCH
	GROUND	V	VOLTMETER
T ##	STEP DOWN TRANSFORMER, ## INDICATES KVA	A	AMMETER
TK ##	K-RATED STEP DOWN TRANSFORMER ## INDICATES KVA, # INDICATES K RATING	XXX	SEE FEEDER/MEC/TRANSFORMER SCHEDULES FOR FEEDER SIZE
	CURRENT TRANSFORMER	G	ENGINE GENERATOR
	POTENTIAL TRANSFORMER		CONTACTOR/RELAY/CAPACITOR (AS NOTED)
OR	SERVICE ENTRANCE TRANSFORMER		TRANSFER SWITCH - ATS=AUTOMATIC, MTS=MANUAL
	METER	GFI	GROUND FAULT INTERRUPTER
	EQUIPMENT ENCLOSURE	SPD	SURGE PROTECTIVE DEVICE
	SERVICE WEATHERHEAD	ST	SHUNT TRIP
ISCA	SHORT CIRCUIT CURRENT AVAILABLE		TERMINATIONS LS=LOAD BREAK, NLB=NO LOAD BREAK
X	KIRK KEY INTERLOCK, SUBSCRIPT INDICATES INTERLOCKED GROUP		DRAW-OUT DEVICE
X	ELECTRICAL INTERLOCK, SUBSCRIPT INDICATES INTERLOCKED GROUP		PLUG-IN DEVICE
	MECHANICAL INTERLOCK	EO	ELECTRICALLY OPERATED

REFERENCE SYMBOLS LEGEND
(Not all symbols listed below are used on these drawings)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A	KEY NOTE REFERENCE	1	KITCHEN/OWNER/MEDICAL EQUIPMENT REFERENCE
LPA-8	TYPICAL CIRCUIT NUMBER	E	EXISTING TO REMAIN
TG8	TYPICAL LUMINAIRE TYPE	E	EXISTING TO BE REMOVED
A	TYPICAL ROOM REFERENCE (TOP = RM #, BOTTOM = FLR)	E	EXISTING TO BE RELOCATED
MR	MECHANICAL EQUIPMENT REFERENCE	E	EXISTING TO REMAIN - REPLACE DEVICE
LC1	LIGHTING CONTROL / EQUIPMENT REFERENCE	E	EXISTING TO BE REMOVED AND REPLACED
LC1	ELECTRICAL ACCESSORIES REFERENCE		

ABBREVIATIONS LEGEND
(Not all symbols listed below are used on these drawings)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A	AMPERES	MCP	MOTOR CIRCUIT PROTECTOR
AC	ABOVE COUNTER, MOUNT HORIZONTALLY TO CENTERLINE OF DEVICE, +6" ABOVE COUNTER OR BACK SPLASH	MEC	SEE MECHANICAL EQUIPMENT SCHEDULE
AFF	ABOVE FINISHED FLOOR	MIN	MINIMUM
AFG	ABOVE FINISHED GRADE	MLO	MAIN LUGS ONLY
ANN	ANNUNCIATOR	MTS	MANUAL TRANSFER SWITCH
ARF	ABOVE RAISED FLOOR	NC	NORMALLY CLOSED
ASSD	AIR SAMPLING SMOKE DETECTION	NIC	NOT IN CONTRACT
ATS	AUTOMATIC TRANSFER SWITCH	NL	NIGHT LIGHT
BFG	BELOW FINISHED GRADE	NO	NORMALLY OPEN
C	CONDUIT	NTS	NOT TO SCALE
CATV	CABLE TELEVISION	OC	ON CENTER
CB	CIRCUIT BREAKER	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
CCTV	CLOSED CIRCUIT TELEVISION	OFOI	OWNER FURNISHED, OWNER INSTALLED
(E)	EXISTING	OSWF	ON SITE WORK FORCE
EM	EMERGENCY	PB	PULL BOX
EMDC	EMERGENCY MAIN DISTRIBUTION CENTER	SB	STAND-BY
EP	EXPLOSION PROOF	SDC	SUB-DISTRIBUTION CENTER
EPO	EMERGENCY POWER OFF	TP	TAMPER PROOF
EVO	EMERGENCY VENTILATION ON/OFF	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
EWC	ELECTRIC WATER COOLER	TYP	TYPICAL
FA	FIRE ALARM	UF	UNDER FLOOR
G	GROUND	UG	UNDER GROUND
GCP	GENERATOR CONTROL PANEL	UON	UNLESS OTHERWISE NOTED
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UPS	UNINTERRUPTIBLE POWER SUPPLY
HOA	HAND OFF AUTOMATIC	V	VOLTS
IG	ISOLATED GROUND	VFD	VARIABLE FREQUENCY DRIVE
MAX	MAXIMUM	W/	WITH
MCB	MAIN CIRCUIT BREAKER	W/O	WITHOUT
MCC	MOTOR CONTROL CENTER	WP	WEATHER PROOF
MDC	MAIN DISTRIBUTION CENTER	XFMR	TRANSFORMER

FEEDER SCHEDULE

KEY	CONDUCTORS	C"
1G	1 # 8 G	3/4
7G	1 # 3/0 G	3/4
40.2	2 # 8	3/4
250.4G	4 # 250 , 1 # 4 G	3
400.4	2 [4 # 3/0	2 1/2]

GENERAL NOTES:

1. PROTECT STRUCTURE AND OWNER EQUIPMENT FROM DAMAGE. IMMEDIATELY REPLACE OR REPAIR, TO ORIGINAL CONDITION, DAMAGE CAUSED BY THE CONTRACTOR WHETHER EQUIPMENT APPEARS TO BE CURRENTLY IN USE OR NOT, UNLESS WRITTEN AUTHORIZATION FROM THE OWNER INDICATED OTHERWISE. PREPARE LISTING OF ALL EXISTING DAMAGED ITEMS AND SUBMIT TO OWNER PRIOR TO BEGINNING WORK.
2. INSTALL CONDUIT CONCEALED IN FINISHED AREAS UNLESS OTHERWISE NOTED. PAINT EXPOSED CONDUIT TO MATCH EXISTING FINISHES WITHIN THE SURROUNDING AREA.
3. DO NOT ROUTE CONDUIT WITHIN STRUCTURAL OR TOPPING SLABS OF FLOORS UNLESS SPECIFICALLY NOTED OTHERWISE AND WRITTEN APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.
4. FIRE SEAL ALL FIRE RATED WALL AND FLOOR PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS.
5. COORDINATE EXACT REQUIREMENTS AND LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN AND ORDERING MATERIALS OR EQUIPMENT.
6. A DETAILED WRITTEN METHOD OF PROCEDURE IS REQUIRED WHEN A CONSTRUCTION ACTIVITY OR AN OUTAGE AFFECTS THE SAFETY OF OCCUPANTS, TELEPHONE/DATA/FIRE ALARM EQUIPMENT OR COMPONENTS OF ANY SYSTEM WHICH SUPPORTS THIS EQUIPMENT OR ESSENTIALLY AFFECTS THE BUILDING MANAGEMENT, OPERATIONS OR SECURITY. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. EXISTING INFORMATION SHOWN ON THE DRAWINGS HAS BEEN TAKEN FROM OWNER FURNISHED DRAWINGS AND/OR LIMITED FIELD OBSERVATIONS. CATOR, RUMA & ASSOCIATES IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THESE DRAWINGS.
8. FIELD LOCATE EXISTING UNDERGROUND PUBLIC AND OWNER UTILITIES OF ALL TRADES AND BUILDING GROUNDING/LIGHTNING PROTECTION SYSTEMS PRIOR TO ANY EXCAVATION. REPLACE OR REPAIR DAMAGED UTILITIES AND GROUNDING/LIGHTNING PROTECTION SYSTEMS TO ORIGINAL CONDITION.
9. PROVIDE SEPARATE INSULATED GROUNDING CONDUCTOR IN ALL FEEDER, HOMERUN AND BRANCH CIRCUITS.

ONE-LINE DIAGRAM NOTES:

1. PANELBOARDS INDICATED ON ONE LINE DIAGRAMS DO NOT SHOW ALL BRANCH CIRCUITS. REFER TO PANELBOARD SCHEDULE(S).
2. PANEL NAMING LEGEND "1234"
   A. H=277/480V, L=120/208V, LCP-LIGHTING CONTROL PANEL,
   B. PANELBOARD DESIGNATION (LENGTH AS REQUIRED) ARBITRARY A,B,C, DESIGNATION PER FLOOR.
3. COORDINATE MOUNTING, CONDUIT, WIRE, AND OCPD SIZE FOR SPD'S WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

SITE PLAN NOTES:

1. FEEDERS SHOWN ON SITE PLAN ARE DIAGRAMMATIC AND REPRESENT A PRELIMINARY SUGGESTED ROUTING. ACTUAL ROUTING SHALL BE SUBMITTED AND ACCEPTED PRIOR TO INSTALLATION.
2. COORDINATE UTILITY/OWNER REQUIREMENTS AND PROVIDE INSTALLATION IF NECESSARY FOR ALL UTILITY/OWNER PROVIDED EQUIPMENT. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION WITH UTILITY COORDINATION. COORDINATE WITH ARCHITECT/ENGINEER LOCATION OF TRANSFORMERS, PADS, CONNECTION CABINETS, METER SOCKETS/METERS, ETC. AS REQUIRED BY UTILITY/OWNER.
3. EXTERIOR LIGHTING, POLE BASES, AND OTHER ELECTRICAL EQUIPMENT AND/OR DEVICES ARE SHOWN DIAGRAMMATICALLY AND ARE NOT NECESSARILY SHOWN TO SCALE. IF DIMENSIONS ARE NOT INDICATED ON PLAN DRAWING, SUBMIT PROPOSED SPACINGS AND LOCATIONS WITH DIMENSIONS FOR ACCEPTANCE PRIOR TO INSTALLATION.
4. EXTERIOR LIGHTING INCLUDING: LIGHT POLE MOUNTED EQUIPMENT; WALL MOUNTED OR UNDER CANOPIES AT BUILDING ENTRANCES/EXITS; SIGNS; LOW LEVEL BOLLARDS AND LANDSCAPE LIGHTING; ETC. SHALL BE CONNECTED TO LIGHTING CONTROL ZONE INDICATED IN LIGHTING CONTROL MATRIX UNLESS OTHERWISE SHOWN.
5. PROVIDE LIGHTNING PROTECTION SYSTEM, SEE SPECIFICATION FOR DESIGN AND CONSTRUCTION REQUIREMENTS.

POWER PLAN NOTES:

1. MAKE ALL FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT REQUIRING ELECTRICAL CONNECTION. THIS SHALL INCLUDE BUT NOT BE LIMITED TO ALL MECHANICAL AND OTHER EQUIPMENT INCLUDED IN THIS PROJECT.
2. COORDINATE EXACT REQUIREMENTS AND LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
3. PROVIDE FUSES SIZED PER EQUIPMENT MANUFACTURER'S REQUIREMENTS.
4. DISCONNECT SWITCH LOCATIONS ARE SHOWN DIAGRAMMATICALLY AND SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS TO SUIT EQUIPMENT AND SPACE. DISCONNECT SWITCHES SHALL BE WITHIN SIGHT OF THE EQUIPMENT THEY SERVE AND MOUNTED AT 6'-3", MAXIMUM, TO TOP OF CABINET. MAINTAIN NEC WORK SPACE REQUIREMENTS.
5. RECEPTACLES INDICATED TO BE MOUNTED ABOVE COUNTER ARE TO BE MOUNTED HORIZONTALLY 6" ABOVE COUNTER UNLESS OTHERWISE NOTED.
6. PROVIDE 4 11/16" SQUARE, 2 1/8" DEEP OUTLET BOX, SINGLE GANG MUD RING AND BLANK SINGLE GANG COVER PLATE FOR ALL INDIVIDUAL TELEPHONE, DATA, COMBINATION TELE/DATA AND TELEVISION OUTLETS. [ROUTE 1" CONDUIT WITH PULL WIRE TO 6" ABOVE ACCESSIBLE CEILING] (OR) [PROVIDE 1"C. FROM INDIVIDUAL TELEPHONE, DATA, COMBINATION TELE/DATA AND TELEVISION OUTLETS TO NEAREST CORRIDOR CABLE TRAY LOCATION UNLESS OTHERWISE NOTED], PROVIDE INSULATED THROAT CONNECTOR ON CONDUIT END.
7. COORDINATE AND VERIFY EXACT MOUNTING LOCATIONS OF WALL AND FLOOR DEVICES WITH ARCHITECTURAL ELEVATIONS, AND ANY FURNITURE OR SPECIALTY EQUIPMENT SUPPLIER DRAWINGS PRIOR TO ROUGH-IN.
8. ALL GENERAL PURPOSE RECEPTACLES IN SHOP AREAS SHALL BE GFI AND MOUNTED AT +42" AFF.
9. NO RECEPTACLES SHALL BE MOUNTED BELOW +18" AFF.
10. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V CIRCUIT.
11. CIRCUITS MAY BE COMBINED INTO HOMERUNS OF UP TO SIX (6) CURRENT CARRYING CONDUCTORS, INCLUDING NEUTRALS, UNLESS OTHERWISE INDICATED. WHERE CIRCUITS ARE COMBINED WITHIN A SINGLE CONDUIT, PROVIDE STRIPING FOR FULL LENGTH OF NEUTRAL CONDUCTOR INSULATION TO MATCH THE COLOR CODE OF THE ASSOCIATED PHASE CONDUCTOR. SEE SPECIFICATION FOR COLOR CODES.
12. GFCI RECEPTACLES ARE NOT GENERALLY SHOWN ON DRAWINGS, ALL RECEPTACLE OUTLETS LOCATED IN TOILET ROOMS, SHOWER ROOMS, LOCKER ROOMS, GARAGES, SERVICE BAYS, ROOFTOPS, OUTDOOR LOCATIONS, MECHANICAL ROOMS, WITHIN 6 FEET OF A SINK, AT ELECTRIC WATER COOLERS, OR OTHER WET LOCATIONS SHALL BE PROVIDED WITH GFCI PROTECTION PER NEC ARTICLE 210 AND NEC SECTION 422.5. PROVIDE GFCI RECEPTACLES IN ELEVATOR PITS, HOISTWAYS, MACHINE ROOMS, CONTROL SPACES, AND CONTROL ROOMS PER NEC SECTION 620.85. ADDITIONAL GFCI PROTECTION TO BE PROVIDED AS INDICATED. WHERE GFCI DEVICES ARE REQUIRED AND/OR SHOWN, BUT ARE NOT ACCESSIBLE WHEN EQUIPMENT IS INSTALLED, I.E. VENDING MACHINES, ETC., PROVIDE BLANK FACE GFCI DEVICE AND COVERPLATE AHEAD OF INACCESSIBLE RECEPTACLES, MOUNT ADJACENT TO EQUIPMENT AT SWITCH HEIGHT UNLESS OTHERWISE SHOWN.
13. 120V POWER HAS BEEN SHOWN ON DRAWINGS TO J-BOXES IDENTIFIED FOR BAS CONTROLS, DAMPER ACTUATORS AND OTHER MISCELLANEOUS POWER TO OPERATE MECHANICAL CONTROLS AND DEVICES. COORDINATE ALL 120V REQUIREMENTS WITH MECHANICAL CONTROLS AND EQUIPMENT AND MAKE ALL CONNECTIONS REQUIRED TO THESE OR OTHER 120V MECHANICAL CIRCUITS AS REQUIRED. DO NOT CONNECT THESE LOADS TO OTHER CIRCUITS WITH LOADS OTHER THAN THOSE IDENTIFIED HERE.
14. ALL OUTDOOR AND ROOFTOP RECEPTACLES SHALL BE OUTDOOR RATED AND SHALL HAVE A WEATHERPROOF IN USE COVER.

FIRE ALARM PLAN NOTES:

1. FIRE ALARM EQUIPMENT AND DEVICES SHOWN ON THESE DRAWING INDICATE THE INTENT, PERFORMANCE, AND SCOPE OF THE SYSTEM. THE FULL DESIGN OF THE FIRE ALARM SYSTEM SHALL BE DONE BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE A SHOP DRAWING SUBMITTAL FOR APPROVAL BY THE LOCAL FIRE DEPARTMENT AND/OR THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL ARRANGE TO HAVE THE FIRE ALARM SYSTEM SUBMITTAL SEALED AND SIGNED BY A REGISTERED PROFESSIONAL ENGINEER WHO WILL ASSUME THE DUTY OF ENGINEER OF RECORD FOR THE FIRE ALARM SYSTEM DESIGN. THE ELECTRICAL ENGINEER OF RECORD AT CATOR, RUMA & ASSOCIATES, CO. WILL NOT BE RESPONSIBLE FOR SEALING AND SIGNING THE FIRE ALARM SYSTEM SHOP DRAWING SUBMITTAL.
2. WALL OR CEILING MOUNT FIRE ALARM REMOTE INDICATORS ABOVE THE DOOR OF ASSOCIATED ROOMS AS SHOWN.
3. LOCATE SMOKE DETECTORS PER NFPA 72 AND MANUFACTURERS REQUIREMENTS. THE LOCATIONS OF SMOKE DETECTORS ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. DETECTORS SHALL NOT BE PLACED WITHIN 3'-0" OF ANY CEILING MOUNTED HVAC SUPPLY AIR DEVICE.
4. PROVIDE GRAPHIC ZONE MAP/ANNUNCIATORS AND FIRE ALARM CONTROL UNITS AS SHOWN AND REQUIRED. SUBMIT SHOP DRAWINGS AND LOCATIONS TO ENGINEER AND BUILDING/FIRE DEPARTMENT(S) FOR REVIEW PRIOR TO INSTALLATION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. LOCATE ALL CONTROL PANELS AND POWER SUPPLIES IN TELECOM OR ELECTRICAL ROOMS/CLOSETS. VERIFY OTHER LOCATIONS WITH OWNER PRIOR TO INSTALLATION/ROUGH-IN. COORDINATE WITH OTHER TRADES AND DOCUMENT FINAL LOCATIONS IN SUBMITTALS.

LIGHTING PLAN NOTES:

1. REFER TO ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS FOR EXACT MOUNTING LOCATIONS OF DEVICES AND LUMINAIRES.
2. COORDINATE LUMINAIRE LOCATIONS WITH MECHANICAL PIPING, DUCTWORK, ETC., TO AVOID CONFLICTS. SEE SPECIFICATIONS FOR COORDINATION REQUIREMENTS.
3. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V AND 277V CIRCUIT.
4. CIRCUITS MAY BE COMBINED INTO HOMERUNS OF UP TO SIX (6) CURRENT CARRYING CONDUCTORS, INCLUDING NEUTRALS. UNLESS OTHERWISE INDICATED. WHERE CIRCUITS ARE COMBINED WITHIN A SINGLE CONDUIT, PROVIDE STRIPING FOR FULL LENGTH OF NEUTRAL CONDUCTOR INSULATION TO MATCH THE COLOR CODE OF THE ASSOCIATED PHASE CONDUCTOR. SEE SPECIFICATION FOR COLOR CODES.
5. FIELD COORDINATE EXACT LOCATION OF CEILING MOUNTED OCCUPANCY SENSORS PER MANUFACTURER'S INSTRUCTIONS. OCCUPANCY/VACANCY SENSING DEVICES ARE SHOWN FOR GENERAL DESIGN INTENT ONLY. CONTRACTOR SHALL PROVIDE THE TYPE AND QUANTITY OF OCCUPANCY/VACANCY SENSING DEVICES AS NECESSARY FOR PROPER COVERAGE AND CONTROL OF LUMINAIRES WHERE INDICATED ON THE LIGHTING PLANS. FIELD ADJUSTMENT TO DEVICE LOCATIONS SHALL BE MADE AS REQUIRED TO CAPTURE ALL OCCUPANTS, WHETHER SITTING AT A DESK OR MOVING AROUND THE SPACE. ADDITIONAL DEVICES SHALL BE PROVIDED AND FIELD ADJUSTMENTS SHALL BE MADE AS NECESSARY, AT NO ADDITIONAL COST TO OWNER. CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.

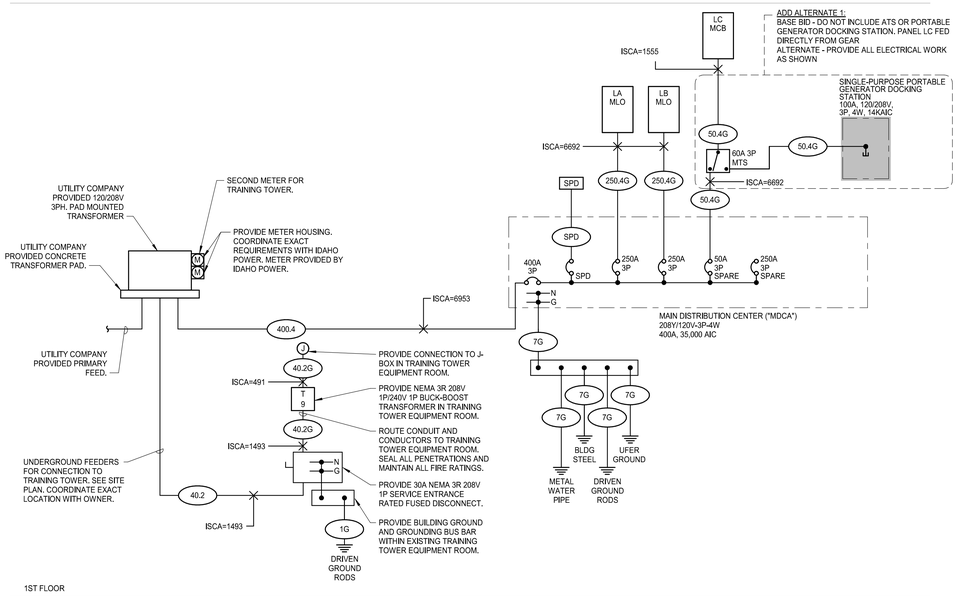
TRANSFORMER SCHEDULE

REMARKS:
1. **OVERCURRENT PROTECTION IS SIZED PER NEC 450.3.**
2. **ALL CONDUCTORS ARE COPPER. SEE PLANS FOR INCREASED CONDUCTOR SIZES DUE TO VOLTAGE DROP, ETC.**
3. **SECONDARY BONDING AND GROUNDING CONDUCTORS ARE SIZED PER NEC 250.66 AND 250.102.**
4. **DIMENSIONS, WEIGHTS & BTUH OUTPUT SHOWN ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY FROM MANUFACTURER TO MANUFACTURER.**
5. **FOR K-RATED TRANSFORMERS, PROVIDE PARALLEL NEUTRAL CONDUCTORS LUGS AT TRANSFORMERS, LOW VOLTAGE PANELBOARD, DISCONNECTS AND/OR LOAD.**
6. **CONDUIT 40% FILL RATIO IS BASED ON EMT.**

Type	PRI FLA 480V	SEC FLA 208V	PRIMARY CB	PRIMARY SWITCH	PRIMARY FUSE	PRIMARY CONDUCTORS	PRIMARY C"	SECONDARY CB	SECONDARY SWITCH	SECONDARY FUSE	SECONDARY CONDUCTORS	SECONDARY C"	GEC CONDUCTORS	GEC C"	DIMENSIONS HIGH	DIMENSIONS WIDE	DIMENSIONS DEEP	WEIGHT	BTUH OTPT	NOTE
T9	10.8	25	15 A 3 P	30 A 3 P	FRN-R- 30	2 # 8 , 1 # 10 G	3/4	30 A 3 P	30 A 3 P	FRN-R- 30	2 # 8 , 1 # 10 G	3/4	1 # 8	3/4	14.75	19.13	12.25	235		

ELECTRICAL ONE-LINE DIAGRAM

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



CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE FOR ALL INSPECTIONS

PERMIT SET – 02.29.2024

pivot north ARCHITECTURE
PIVOT NORTH ARCHITECTURE, PLLC.
116 S. 6TH STREET
BOISE, ID 83702
www.pivotnorthdesign.com

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RICE*fergus*MILLER

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Project: TWIN FALLS TRAINING FACILITY
420 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

Project No:	19-029
Date:	2/29/2024
Checked By:	KO
Drawn By:	BRE

Sheet Name:
ELECTRICAL LEGENDS & NOTES

Sheet No:
E0.01

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GENERAL EQUIPMENT SCHEDULE

COMMON NOTES:

A. PRIOR TO WORK, VERIFY ELECTRICAL REQUIREMENTS (VOLTAGE, AMPERAGE, RECOMMENDED OCPD, CONDUCTORS, AND DISCONNECT) FOR EACH PIECE OF EQUIPMENT.
B. PRIOR TO WORK, VERIFY EXACT LOCATION FOR EACH PIECE OF EQUIPMENT WITH ARCHITECT AND/OR OWNER.

SPECIFIC REMARKS:

1. PROVIDE NEMA 5-20 RECEPTACLE.
2. CONFIRM NEMA CONFIGURATION PRIOR TO INSTALL OF DEVICE AND FEEDER.

KEY	#	ITEM	HP	FLA	LOAD	EQ LOAD (VA)	VOLTAGE	FEEDERS			PROTECTION			REMARKS
								WIRE	GROUND	CONDUIT	BREAKER	DISCONNECT	FUSE	
G/D		GARBAGE DISPOSAL	0.5	0 A	0 VA	1176 VA	120 V/ 1ph	2#12	#12G	3/4"	20 A			
ICE		ICE MAKER	0	0 A	1800 VA	1800 VA	120 V/ 1ph	2#12	#12G	3/4"	20 A			2
MICR		MICROWAVE	0	0 A	1000 VA	1000 VA	120 V/ 1ph	2#12	#12G	3/4"	20 A			1
OH		OVERHEAD DOOR	0.5	0 A	0 VA	1176 VA	120 V/ 1ph	2#12	#12G	3/4"	20 A	S		
REF		REFRIGERATOR	0	0 A	500 VA	500 VA	120 V/ 1ph	2#12	#12G	3/4"	20 A			1

MECHANICAL EQUIPMENT SCHEDULE

COMMON NOTES:

A. PRIOR TO WORK, VERIFY ELECTRICAL REQUIREMENTS (VOLTAGE, AMPERAGE, RECOMMENDED OCPD, CONDUCTORS, AND DISCONNECT) FOR EACH PIECE OF EQUIPMENT.
B. PRIOR TO WORK, VERIFY EXACT LOCATION FOR EACH PIECE OF EQUIPMENT.
C. COORDINATE AND PROVIDE ALL FIELD CONNECTIONS AS REQUIRED.
D. COORDINATE 120V POWER CONNECTIONS TO DAMPERS AND OTHER CONTROL CIRCUITS. GROUP EQUIPMENT CONTROL CIRCUITS SUCH THAT FAILURE OF ONE CONTROL CIRCUIT DOES NOT AFFECT OPERATION OF OTHER EQUIPMENT. FOR EXAMPLE, DO NOT CONNECT A DAMPER ASSOCIATED WITH ONE AIR HANDLING UNIT TO THE SAME BRANCH CIRCUIT AS DAMPERS ASSOCIATED WITH A DIFFERENT AIR HANDLING UNIT.
E. FEEDERS, BREAKERS, DISCONNECTS, AND FUSING APPLIES TO FIELD-INSTALLED AND/OR FACTORY-INSTALLED EQUIPMENT.
F. COORDINATE LOCATION OF VFD(S) AND WORKING SPACE CLEARANCES. IF INSTALLED REMOTE FROM EQUIPMENT, PROVIDE CIRCUIT CONNECTION FROM VFD TO MOTOR(S).
G. WHERE MULTIPLE MOTORS ARE SERVED BY A SINGLE VFD, COORDINATE FIELD-WIRING REQUIREMENTS WITH EQUIPMENT VENDOR.

SPECIFIC REMARKS:

1. CONNECT EQUIPMENT TO EMERGENCY POWER.
2. CONNECT EQUIPMENT TO GENERATOR STANDBY POWER.
3. PROVIDE EQUIPMENT WITH INTEGRAL DISCONNECT SWITCH AND FUSING AS INDICATED.
4. PROVIDE EQUIPMENT WITH VFD(S) INCLUDING INTEGRAL DISCONNECT SWITCH AND FUSING AS INDICATED.
5. PROVIDE CONNECTION TO FACTORY-FURNISHED LIGHTS AND RECEPTACLE(S).
6. PROVIDE COMBINATION STARTER/ DISCONNECT SWITCH.
7. PROVIDE EXPLOSIONPROOF WIRING AND DISCONNECT SWITCH.
8. EQUIPMENT IS FUTURE. PROVIDE SPACE AND MOUNTING HARDWARE/ PROVISIONS IN ASSOCIATED PANELBOARD OR SWITCHBOARD.
9. TWO MOTORS @___HP EACH. PROVIDE SINGLE POINT CONNCETION TO DUPLEX CONTROL PANEL FURNISHED WITH EQUIPMENT. PROVIDE CONNECTIONS FROM CONTROL PANEL TO EACH MOTOR.

KEY	#	ITEM	HP	FLA	LOAD	EQ LOAD (VA)	VOLTAGE	FEEDERS			PROTECTION			REMARKS
								WIRE	GROUND	CONDUIT	BREAKER	DISCONNECT	FUSE	
CU	1	CONDENSING UNIT	0.5	0 A	0 VA	1123 VA	208 V/ 1ph	2#12	#12G	3/4"	20 A	S		
DCP	1	DOMESTIC CIRCULATION PUMP	0	0 A	125 VA	125 VA	208 V/ 1ph	2#12	#12G	3/4"	20 A	S		
DF	1	DESTRATIFICATION FAN	0	10 A	0 VA	1200 VA	120 V/ 1ph	2#12	#12G	3/4"	20 A	S		
DS	1	DUCTLES SPLIT SYSTEM INDOOR UNIT	0	0 A	130 VA	130 VA	208 V/ 1ph	2#12	#12G	3/4"	20 A	S		
DSO	1	DUCTLESS SPLIT SYSTEM OUTDOOR UNIT	0	0 A	39 VA	39 VA	208 V/ 1ph	2#12	#12G	3/4"	20 A	S		
EBBR	1	ELECTRIC BASEBOARD HEATER	0	0 A	2000 VA	2000 VA	208 V/ 1ph	2#12	#12G	3/4"	20 A	S		
EF	1	EXHAUST FAN	0.75	0 A	0 VA	1581 VA	208 V/ 1ph	2#12	#12G	3/4"	20 A	S		
EF	2	EXHAUST FAN	0.1	1 A	0 VA	168 VA	120 V/ 1ph	2#12	#12G	3/4"	20 A	S		
EF	3	EXHAUST FAN	0.1	1 A	0 VA	168 VA	120 V/ 1ph	2#12	#12G	3/4"	20 A	S		
EUH	1	ELECTIC UNIT HEATER	0	0 A	12500 VA	12500 VA	208 V/ 3ph	3#6	#10G	1"	45 A	60 A	45 A	
EUH	2	ELECTRIC UNIT HEATER	0	0 A	12500 VA	12500 VA	208 V/ 3ph	3#6	#10G	1"	45 A	60 A	45 A	
EUH	3	ELECTRIC UNIT HEATER	0	0 A	3300 VA	3300 VA	208 V/ 1ph	2#12	#12G	3/4"	20 A	S		
GRH	1	GAS RADIANT HEATER	0	3 A	0 VA	312 VA	120 V/ 1ph	2#12	#12G	3/4"	20 A	S		
GRH	2	GAS RADIANT HEATER	0	3 A	0 VA	312 VA	120 V/ 1ph	2#12	#12G	3/4"	20 A	S		
GRH	3	GAS RADIANT HEATER	0	3 A	0 VA	312 VA	120 V/ 1ph	2#12	#12G	3/4"	20 A	S		
GRH	4	GAS RADIANT HEATER	0	3 A	0 VA	312 VA	120 V/ 1ph	2#12	#12G	3/4"	20 A	S		
MAU	1	MAKE-UP AIR UNIT	0.5	0 A	0 VA	865 VA	208 V/ 3ph	3#12	#12G	3/4"	15 A	30 A	5 A	
WH	1	WATER HEATER	0	0 A	600 VA	600 VA	208 V/ 1ph	2#12	#12G	3/4"	20 A	S		

LUMINAIRE SCHEDULE

COMMON NOTES:

A. CATALOG NUMBER REFERS TO FIRST NAME LISTED UNDER MANUFACTURER PER LUMINAIRE TYPE. REMAINING MANUFACTURERS LISTED ARE CONSIDERED TO BE EQUIVALENT PRODUCTS FOR THIS PROJECT AND SHALL MEET ALL CRITERIA LISTED INCLUDING THAT CALLED FOR BY THE SPECIFIC LUMINAIRE CATALOG NUMBER. CATALOG NUMBERS DO NOT NECESSARILY REPRESENT COMPLETE CATALOG NUMBERS. ALL ITEMS LISTED IN THE DESCRIPTION SHALL BE PROVIDED.
B. REFER TO LIGHTING SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
C. PROVIDE UNIT PRICING FOR ALL LUMINAIRES BY TYPE AND SUBMIT WITH BID FORM.
D. PROVIDE AN EMERGENCY BALLAST TEST SWITCH FOR RECESSED DOWNLIGHTS ON CEILING ADJACENT TO LUMINAIRE.
E. PROVIDE FLICKER FREE LED DRIVERS MEETING IEEE 1789.

SPECIFIC REMARKS:

1. VERIFY EXACT MOUNTING HEIGHT WITH ARCHITECT AND PROVIDE APPROPRIATE SUSPENSION LENGTH.
2. VERIFY FINISH WITH ARCHITECT.
3. PROVIDE ALL MOUNTING HARDWARE, LAMP HEADS, ACCESSORIES, ETC. FOR A COMPLETE AND OPERATIONAL TRACK LIGHTING SYSTEM.
4. PROVIDE ALL MOUNTING HARDWARE, CONNECTORS, DRIVERS, ACCESSORIES, ETC. FOR A COMPLETE AND OPERATIONAL COVE LIGHTING SYSTEM.
5. REFER TO POLE BASE DETAIL FOR MORE INFORMATION.
6. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING DETAILS.

TYPE	DESCRIPTION	LAMP		BALLAST/DRIVER			APPARENT LOAD	MANUFACTURER	CATALOG SERIES	FINISH	MOUNTING	REMARKS
		COLOR	LUMENS	TYPE	DIM LEVEL	VOLTAGE						
D1	6" DIAMETER DOWNLIGHT, CLEAR SEMI-SPECULAR REFLECTOR, MEDIUM WIDE DISTRIBUTION, SELF-FLANGED	4000K	1500	0-10V	10%	120 V	6 VA	LITHONIA HALO PRESCOLITE	LDN6 HC6 LFR-6RD	CLEAR	RECESSED	
D1E	6" DIAMETER DOWNLIGHT, CLEAR SEMI-SPECULAR REFLECTOR, MEDIUM WIDE DISTRIBUTION, SELF-FLANGED, INTEGRAL BATTERY BACKUP WITH MINIMUM 90 MINUTE BATTERY LIFE	4000K	1500	0-10V	10%	120 V	6 VA	LITHONIA HALO PRESCOLITE	LDN6 HC6 LFR-6RD	CLEAR	RECESSED	
EW1	EXTERIOR WALL MOUNT FULL CUTOFF WALL PACK TYPE SCONCE, FLAT END CAP, 8" DEPTH, RECTALINEAR SHAPE	4000K	2500	0-10V	10%	120 V	26 VA	LITHONIA DSSL HUBBELL	DSXW1 W-SPEC RWL1	BLACK	WALL	
EW1E	EXTERIOR WALL MOUNT FULL CUTOFF WALL PACK TYPE SCONCE, FLAT END CAP, 8" DEPTH, RECTALINEAR SHAPE	4000K	2500	0-10V	10%	120 V	26 VA	LITHONIA DSSL HUBBELL	DSXW1 W-SPEC RWL1	BLACK	WALL	
S1	LED HIGH BAY, CLEAR ACRYLIC LENS	4000K	12000	0-10V	10%	120 V	77 VA	LITHONIA METALUX ALBEO	IBG OHB ABC1	WHITE	PENDANT, +15'-0" AFF TO BOTTOM	1
S1E	LED HIGH BAY, CLEAR ACRYLIC LENS, INTEGRAL BATTERY BACKUP WITH MINIMUM 90 MINUTE BATTERY LIFE	4000K	12000	0-10V	10%	120 V	77 VA	LITHONIA METALUX ALBEO	IBG OHB ABC1	WHITE	PENDANT, +15'-0" AFF TO BOTTOM	1
S2	4' LINEAR STRIP LED, CLEAR ACRYLIC LENS	4000K	5000	0-10V	10%	120 V	25 VA	LITHONIA METALUX COLUMBIA	CLX SNLED MPS	WHITE	SURFACE	
S2E	4' LINEAR STRIP LED, CLEAR ACRYLIC LENS, INTEGRAL BATTERY BACKUP WITH MINIMUM 90 MINUTE BATTERY LIFE	4000K	5000	0-10V	10%	120 V	25 VA	LITHONIA METALUX COLUMBIA	CLX SNLED MPS	WHITE	SURFACE	
S3	4' LINEAR STRIP LED, CLEAR ACRYLIC LENS	4000K	5000	0-10V	10%	120 V	25 VA	LITHONIA METALUX COLUMBIA	CLX SNLED MPS	WHITE	AIRCRAFT CABLE, 7'-0" AFF TO BOTTOM UON	1
S3E	4' LINEAR STRIP LED, CLEAR ACRYLIC LENS, INTEGRAL BATTERY BACKUP WITH MINIMUM 90 MINUTE BATTERY LIFE	4000K	5000	0-10V	10%	120 V	25 VA	LITHONIA METALUX COLUMBIA	CLX MPS SNLED	WHITE	AIRCRAFT CABLE, 7'-0" AFF TO BOTTOM UON	1
S4E	4' LINEAR STRIP LED, CLEAR ACRYLIC LENS, INTEGRAL BATTERY BACKUP WITH MINIMUM 90 MINUTE BATTERY LIFE	4000K	5000	0-10V	10%	120 V	25 VA	LITHONIA METALUX COLUMBIA	CLX SNLED MPS	WHITE	PENDANT, +17'-0" AFF TO BOTTOM	1
T1	2' X 2' VOLUMETRIC LENSED TROFFER	4000K	3300	0-10V	10%	120 V	26 VA	LITHONIA METALUX COLUMBIA	BLT SERIES CRUZE ST 22CZ2 LCAT22	WHITE	RECESSED	
T1E	2' X 2' VOLUMETRIC LENSED TROFFER, INTEGRAL BATTERY BACKUP WITH MINIMUM 90 MINUTE BATTERY LIFE	4000K	3300	0-10V	10%	120 V	26 VA	LITHONIA METALUX COLUMBIA	BLT SERIES CRUZE ST 22CZ2 LCAT22	WHITE	RECESSED	
U1	LINEAR LED IN EXTRUDED ALUMINUM HOUSING, CUT TO LENGTH OF CABINET, WHITE FROSTED ACRYLIC LENS, ROCKER SWITCH	4000K	300/FT	0-10V	10%	120 V	20 VA	KELVIX ELITE	UNICAB TPLE	SILVER	SURFACE UNDER CABINET	
W1	RESTROOM VANITY, HORIZONTAL MOUNT, 2' LENGTH, RECTANGLE MOUNTING PLATE, ~2" SQUARE PROFILE ACRYLIC DIFFUSER	4000K	1720	0-10V	10%	120 V	21 VA	DALS ARTIKA PRO ADELPHI	LEDVAN003-CC-24 VAN OXYGEN	BLACK	WALL, +4" ABOVE MIRROR TO CENTER	
X1	SINGLE FACE WALL-MOUNTED EXIT SIGN, ARROWS AS INDICATED	GREEN	NA	NA	NA	120 V	3 VA	LITHONIA MULE LIGHTING DUALLITE	EDG CEL LE	MIRRORED	WALL	
X2	SINGLE FACE CEILING-MOUNTED EXIT SIGN, ARROWS AS INDICATED	GREEN	NA	NA	NA	120 V	0 VA	LITHONIA MULE LIGHTING DUALLITE	EDG CEL LE	MIRRORED	CEILING	

LIGHTING CONTROL MATRIX

COMMON NOTES:

A. NOT ALL SPACE NAMES ARE LISTED FOR EACH LIGHTING CONTROL TYPE. REFER TO PLANS FOR ALL SPACES TO BE CONTROLLED.
B. SPACES MAY CONTAIN MULTIPLE ZONES OF CONTROL. REFER TO PLANS FOR QUANTITY OF ZONES, SWITCHES, ETC.
C. PROVIDE THE QUANTITY OF SENSORS AS REQUIRED FOR FULL COVERAGE OF THE SPACE. DEVICES SHOWN ON PLAN ARE FOR DESIGN INTENT ONLY AND DO NOT NECESSARILY REFLECT THE EXACT QUANTITY REQUIRED FOR FULL COVERAGE.
D. WHERE A SINGLE SWITCH/DIMMER IS DENOTED WITH MULTIPLE SWITCH LEGS, DESIGN INTENT IS A SINGLE-GANG DEVICE WITH MULTIPLE-MODE CONTROL.
E. ALL NON-NETWORKED SPACES WITH SENSORS SHALL BE PROVIDED WITH MANUAL 'OFF' MEANS.
F. WHERE NETWORKED SPACES HAVE NO MANUAL 'OFF' MEANS WITHIN SPACE, PROVIDE LABELED MEANS OF SHUTOFF AT CONTROLLER LOCATION FOR NO MORE THAN 5,000 SQUARE FEET.

SPECIFIC REMARKS:

1. COORDINATE TIME SCHEDULE WITH OWNER. OCCUPANCY SENSOR OVERRIDE AFTER-HOURS.
2. UTILIZE 'FLICK WARNING' PRIOR TO TIMED LIGHTING SHUTOFF.
3. CENTRAL LIGHTING CONTROL SYSTEM TO HAVE CAPABILITY OF MANUALLY DIMMING EXTERIOR LIGHTING LEVELS.
4. PHOTOCELL CONTROL WITH SHUTOFF FROM DUSK AND OFF AT DAWN.

KEY:

ON / OFF — M = MANUAL (SWITCH), A = AUTOMATIC (SENSOR), T = TIME SCHEDULE, P = EXTERIOR PHOTOCELL, #% = CONTROL TO #% LIGHT LEVEL
CONTROL — 0-10V DIMMING, ELV DIMMING, STEP DIMMING, DMX CONTROL
OCC / VAC — DT = DUAL TECHNOLOGY, PIR = PASSIVE INFRARED, CLG = CEILING MOUNT, WALL = WALL CORNER MOUNT, SW = INTEGRAL TO WALL SWITCH
DAYLIGHT — CALIBRATE BOTTOM LIMIT OF DAYLIGHT SENSOR TO DENOTED FOOTCANDLE LEVEL AT HEIGHT LISTED
INTERFACE — AV = ALLOW OVERRIDE BY A/V SYSTEM, BAS = COMMUNICATE OCCUPIED/UNOCCUPIED STATE TO BAS, VAV = TIE SENSOR RELAY DIRECTLY TO VAV BOX IN ROOM
NETWORK — X = CONNECT ZONE TO CENTRAL LIGHTING CONTROL SYSTEM
EMERGENCY — X = ROUTE CIRCUIT THROUGH CENTRAL LIGHTING INVERTER WITH MINIMUM 90 MINUTE BATTERY BACKUP. SEE ONE-LINE DIAGRAM FOR INVERTER POWER.

TYPE	SPACE	ON	OFF	CONTROL	OCCUPANCY / VACANCY SENSOR			DAYLIGHT SENSOR		INTERFACE	NETWORK	EMERGENCY	REMARKS
					TECH	MOUNT	DELAY (MIN.)	TARGET LEVEL (FC)	MEASURED HEIGHT (IN.)				
LC0a	EXTERIOR BUILDING-MOUNTED	P	P	0-10V							X	X	3,4
LC1	CORRIDOR	T/A	T/A	0-10V	DT	CLG	20	20	0		X	X	1,2
LC2	RESTROOM	A	A		DT	CLG	20					X	
LC5	MEPT	M	M									X	
LC8	PRIVATE OFFICE	M	A	0-10V	DT	SW	5					X	
LC9a	APP BAY	M	A							EM	X	X	
LC9b	KITCHENETTE	M	A	0-10V	DT	CLG	20	50	30	EM	X	X	
LC9c	MEZZANINE	M	A	0-10V	DT	CLG	20					X	

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PROFESSIONAL ENGINEER — LICENSED — 17703 — 02/29/2024 — STATE OF IDAHO — KYLE E. OLSON — Electrical

RICEfergusMILLER
CATOR | RUMA & ASSOCIATES, CO.
420 South Orchard Street, Boise, ID 83705
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Project: TWIN FALLS TRAINING FACILITY
420 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

PERMIT SET – 02.29.2024

Project No: 19-029
Date: 2/29/2024
Checked By: KO
Drawn By: BRE

Sheet Name: ELECTRICAL SCHEDULES

Sheet No: E0.02

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE FOR ALL INSPECTIONS

2/29/2024 2:31:38 PM
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COMcheck Software Version 4.1.5.5
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title:
Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power, 1.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Fire Station	10103	0.48	4819
		Total Allowed Watts =	4819

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Fire Station				
T1: Other:	1	12	26	312
S1: Other:	1	18	77	1386
S2: Other:	1	27	25	675
D1: Other:	1	4	6	24
U1: Other:	1	2	20	40
W1: Other:	1	2	21	42
			Total Proposed Watts =	2479

Interior Lighting PASSES: Design 49% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Kyle Olson, PE - Electrical Engineer — Signature — 02/29/2024
Name - Title — Date

COMcheck Software Version 4.1.5.5
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title:
Project Type: New Construction
Exterior Lighting Zone 2 (Light industrial area with limited nighttime use (LZ2))

Construction Site: Owner/Agent: Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
N App Bay Entrance (Pedestrian and vehicular entrances and exits)	38 ft of door	14	Yes	532
S App Bay Entry (Pedestrian and vehicular entrances and exits)	38 ft of door	14	Yes	532
Exterior edifice (Walkway < 10 feet wide)	320 ft of	0.5	Yes	160
N Entry (Pedestrian and vehicular entrances and exits)	3 ft of door	14	Yes	42
S Entry (Pedestrian and vehicular entrances and exits)	3 ft of door	14	Yes	42
		Total Tradable Watts (a) =		1308
		Total Allowed Watts =		1308
		Total Allowed Supplemental Watts (b) =		400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
N App Bay Entrance (Pedestrian and vehicular entrances and exits 38 ft of door width): Tradable Wattage				
EW1: Other:	1	1	26	26
S App Bay Entry (Pedestrian and vehicular entrances and exits 38 ft of door width): Tradable Wattage				
EW1: Other:	1	1	26	26
Exterior edifice (Walkway < 10 feet wide 320 ft of walkway length): Tradable Wattage				
EW1: Other:	1	6	26	156
N Entry (Pedestrian and vehicular entrances and exits 3 ft of door width): Tradable Wattage				
EW1: Other:	1	1	26	26
S Entry (Pedestrian and vehicular entrances and exits 3 ft of door width): Tradable Wattage				
EW1: Other:	1	1	26	26
			Total Tradable Proposed Watts =	260

Exterior Lighting PASSES: Design 85% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Kyle Olson, PE - Electrical Engineer — Signature — 02/29/2024
Name - Title — Date

COMcheck Software Version 4.1.5.5
Inspection Checklist

Energy Code: 2018 IECC

Requirements: 81.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C103.2 [PR8][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2.2 [EL22][1]	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1, C405.2.1.1 [EL18][1]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1.2 [EL19][1]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.1.3 [EL20][1]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.2.1, C405.2.2.2 [EL21][1]	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3, C405.2.3.1, C405.2.3.2 [EL23][1]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight-responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.4 [EL26][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.4 [EL27][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.5 [EL28][1][2]	Manual controls required by the energy code are in a location with ready access to occupants and located where the controlled lights are visible, or identify the area served and their status.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.6 [EL30][1][2]	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.3 [EL6][1]	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.6 [EL26][1]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.7 [EL27][1]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.8.2, C405.8.2.1 [EL28][1]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.9 [EL29][1]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][1]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.4.1 [FI18][1]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
C405.5.1 [FI19][1]	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Exterior Lighting fixture schedule for values.*
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5.1 [FI16][1]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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PROFESSIONAL ENGINEER LICENSED 17703 STATE OF IDAHO KYLE E. OLSON 02/29/2024 Electrical

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Project: TWIN FALLS TRAINING FACILITY
420 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

PERMIT SET – 02.29.2024

Project No: 19-029
Date: 2/29/2024
Checked By: KO
Drawn By: BRE

Sheet Name:
ELECTRICAL COMCHECK

Sheet No:
E0.03

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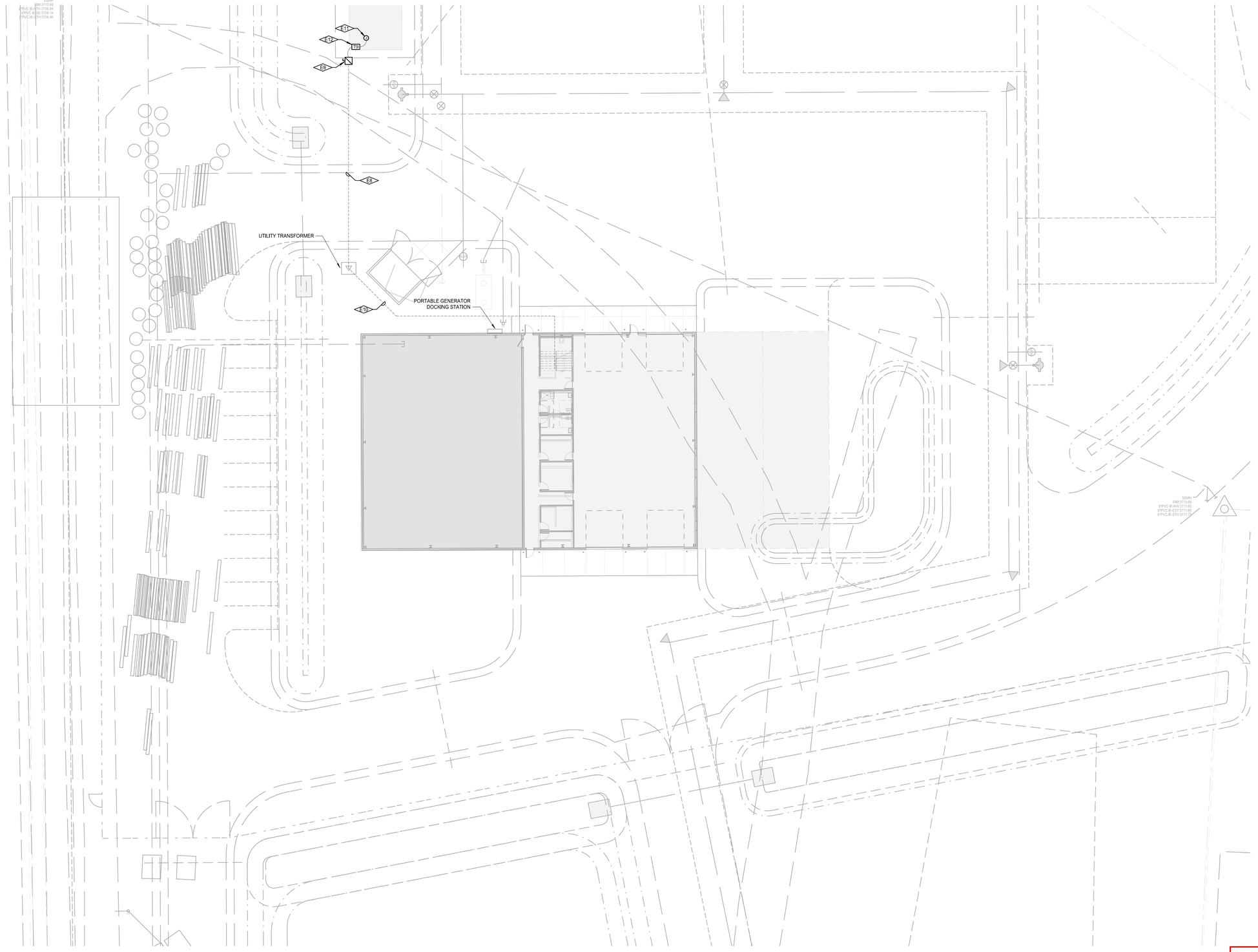
KEYNOTES	
E8	PROVIDE CONNECTION FROM UTILITY TRANSFORMER TO NEW TRAINING TOWER. SEE ONE-LINE DIAGRAM.
E9	MOUNT SERVICE ENTRANCE RATED DISCONNECT AT TRAINING TOWER EXTERIOR.
E10	APPROXIMATE ROUTING FOR SERVICE ENTRANCE FEEDER.
E11	COORDINATE LOCATION OF EXISTING J-BOX IN TRAINING TOWER EQUIPMENT ROOM FOR POWER CONNECTION.
E12	WALL MOUNT BUCK-BOOST TRANSFORMER WITHIN TRAINING TOWER EQUIPMENT ROOM - COORDINATE EXACT LOCATION WITH OWNER.



Electrical Site Plan (1"=30')
SCALE: 1 : 180

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE
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PROFESSIONAL ENGINEER
LICENSED
17703
02/29/2024
STATE OF IDAHO
KYLE E. OLSON
Electrical

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Sheet Name:
ELECTRICAL SITE PLAN

Sheet No:
E1.01

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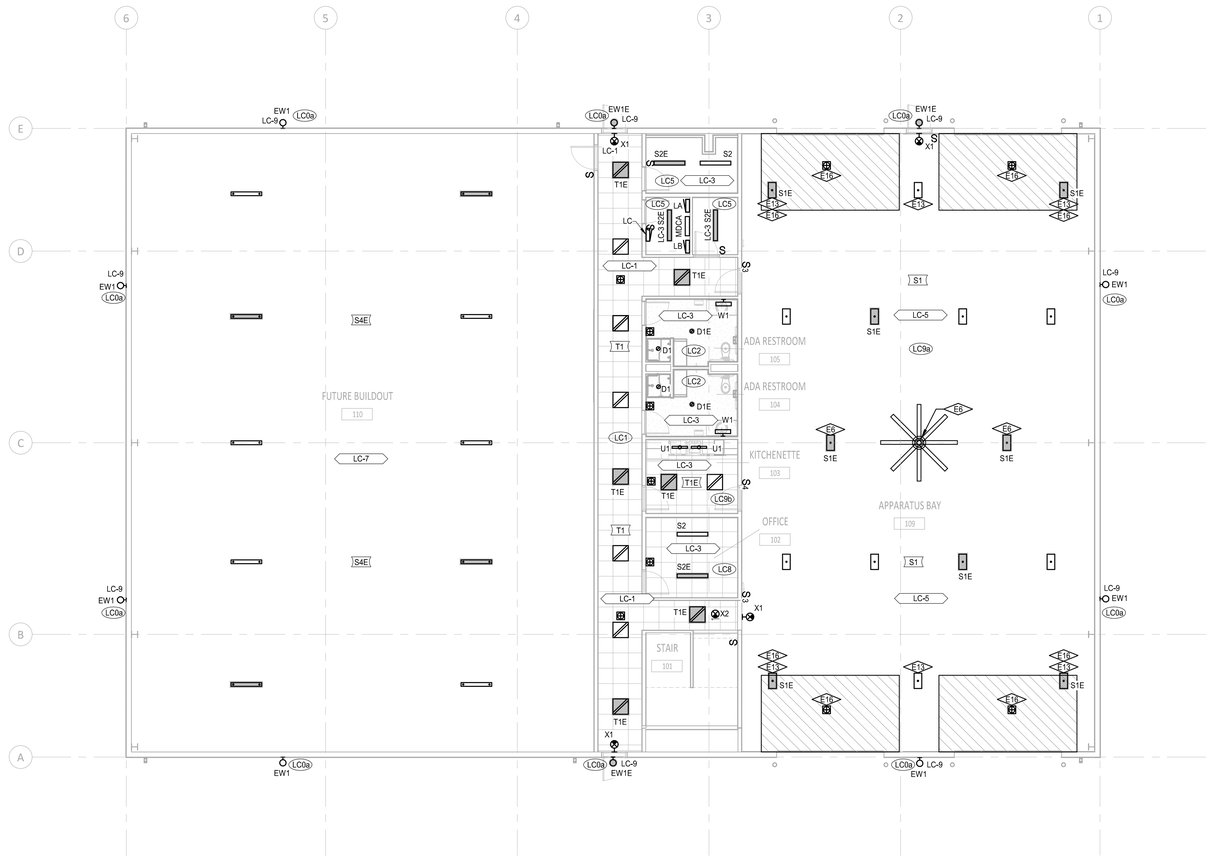
KEYNOTES

E6	COORDINATE MOUNTING OF FIXTURES NEAR DESTRATIFICATION FAN. BOTTOM OF FIXTURE TO BE MOUNTED BELOW FAN HEIGHT. FIXTURES SHOULD NOT BE MOUNTED WITHIN 5' OF DESTRATIFICATION FAN.
E13	COORDINATE MOUNTING OF FIXTURES IN PATH OF OVERHEAD DOOR TRACK AND GAS RADIANT HEATER. FIXTURE TO BE MOUNTED AT LEVEL WITH GAS RADIANT HEATER AND NO LOWER.
E16	FIXTURES WITHIN AREA OF DAYLIGHTING ZONE TO BE CONTROLLED BY DAYLIGHT SENSOR.



LEVEL 1 - LIGHTING PLAN

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

1"

IF LINE DOES NOT MEASURE 1 INCH, DRAWING IS NOT TO SCALE

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Project No:	19-029
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Sheet Name:
LEVEL 1 - LIGHTING PLAN

Sheet No:
E2.01

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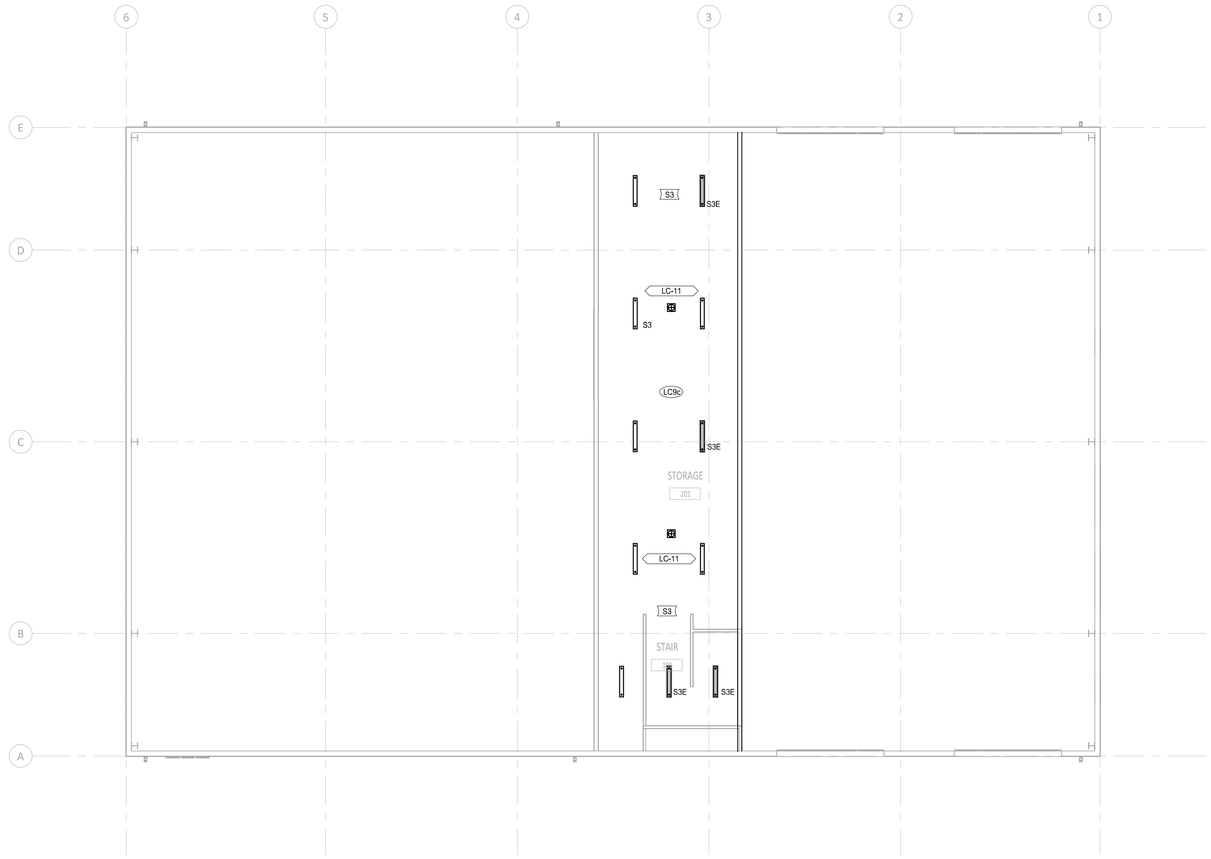
KEYNOTES



LEVEL 2 - LIGHTING PLAN

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

1"

IF LINE DOES NOT MEASURE 1 INCH, DRAWING IS NOT TO SCALE

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Sheet Name:
LEVEL 2 - LIGHTING PLAN

Sheet No:
E2.02

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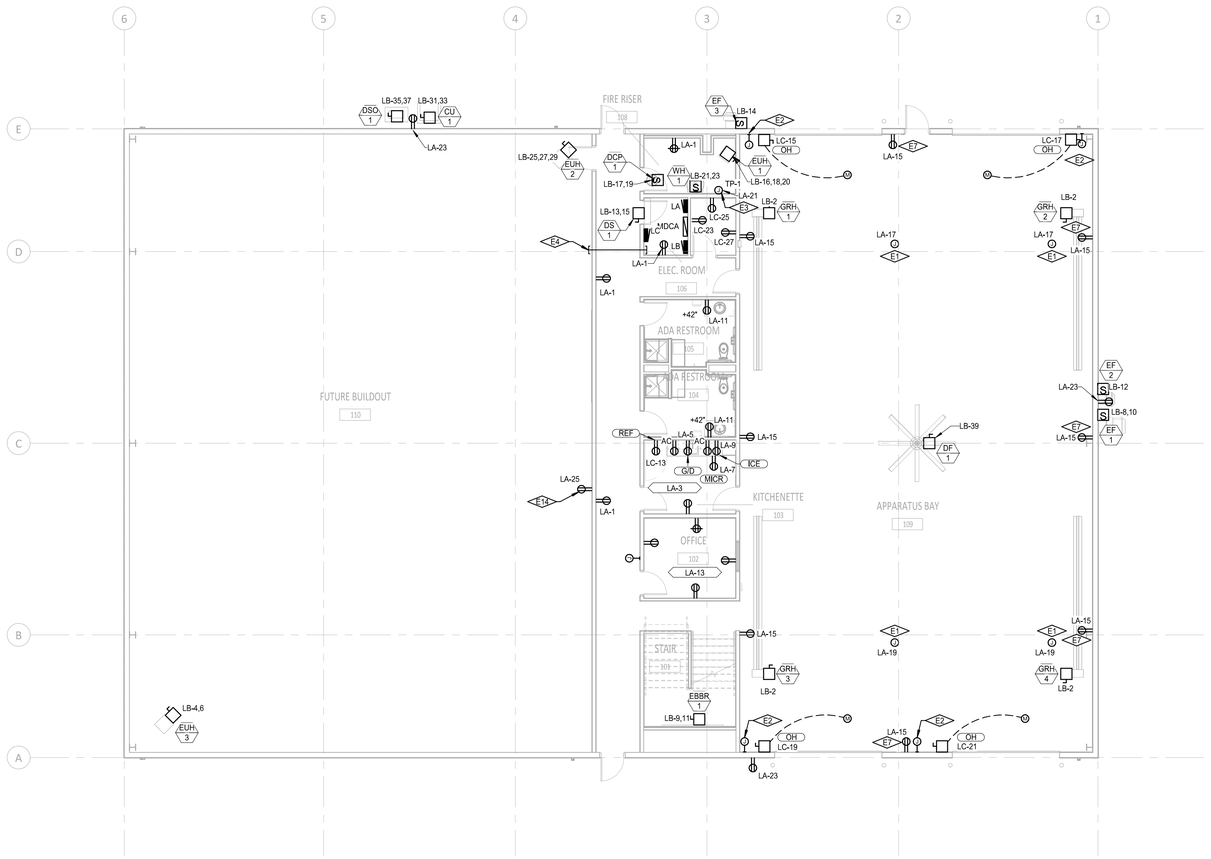
KEYNOTES	
E1	PROVIDE SURFACE MOUNTED JUNCTION BOX AND 30A SO CORD REEL WITH SIMPLEX RECEPTACLE AND ASSOCIATED STRAIN RELIEF MOUNTED AT APPROXIMATELY 6' AFF FOR SHORE POWER AT APPROXIMATE LOCATION INDICATED. ROUTE 2#10 AND 1#10 GROUND CONDUCTORS FROM PANEL FOR POWER. COORDINATE INSTALLATION WITH OWNER PRIOR TO ROUGH-IN. REFER TO 'SURFACE MOUNTED CORD REEL DETAIL.
E2	PROVIDE SINGLE GANG J-BOX AT 48" AFF WITH 1/2" CONDUIT ROUTED TO OVERHEAD DOOR OPERATOR. COORDINATE WITH OVERHEAD DOOR SHOP DRAWINGS
E3	PROVIDE 120V CONNECTION FOR TRAP PRIMER TP-1. COORDINATE WITH MECHANICAL CONTRACTOR FOR DETAILS AND LOCATION.
E4	PROVIDE 2-2"C FROM ELECRICAL ROOM STUBBED THROUGH WALL TO FUTURE BUILDOUT SPACE. COORDINATE EXACT LOCATION IN FUTURE BUILDOUT AREA WITH OWNER.
E7	FIELD COORDINATE SURFACE MOUNTED DEVICES IN METAL BUILDING PANEL LINERS.
E14	PROVIDE RECEPTACLE FOR DRINKING FOUNTAIN IN FUTURE TENANT SPACE. COORDINATE EXACT LOCATION WITH OWNER.



LEVEL 1 - POWER PLAN

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

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1	CITY REVISIONS	2/27/23

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Sheet Name:
LEVEL 1 - POWER PLAN

Sheet No:
E2.11

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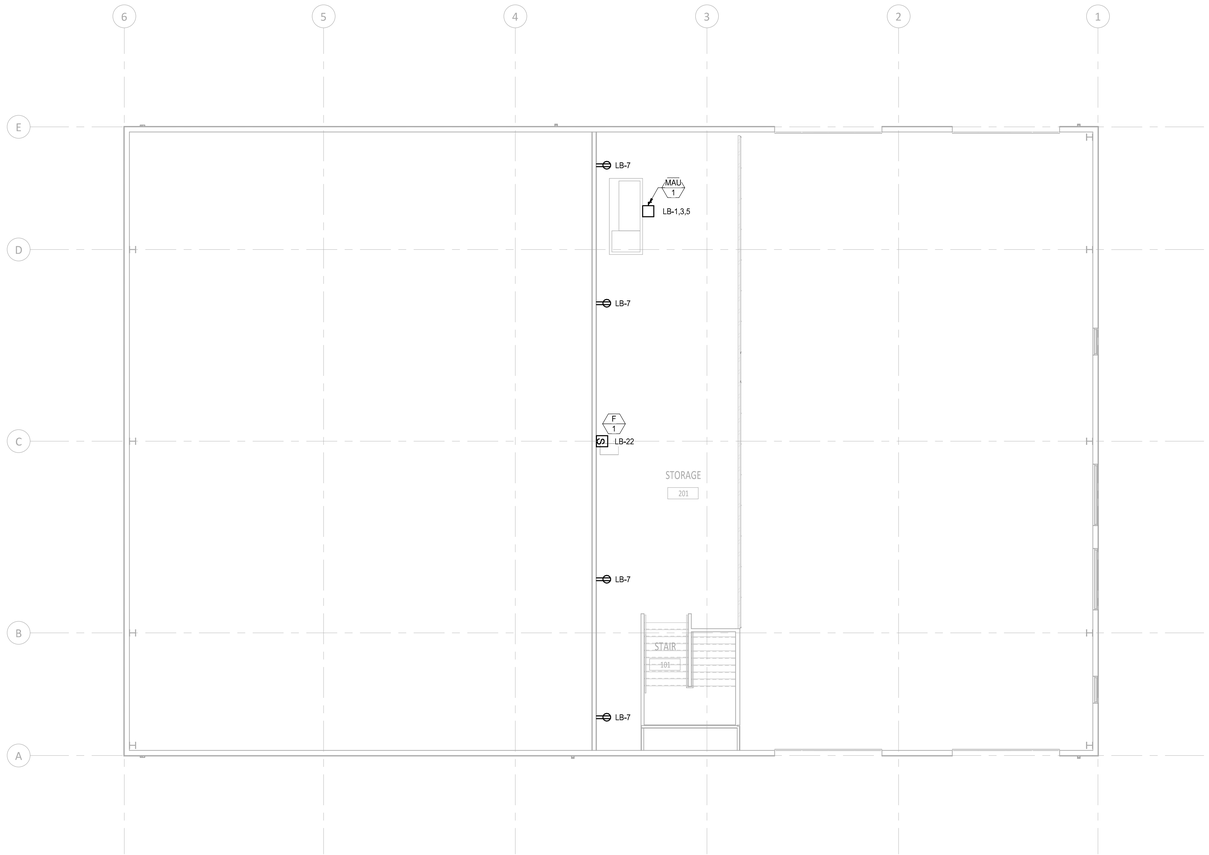
KEYNOTES



LEVEL 2 - POWER PLAN
SCALE: 1/8" = 1'-0"

1"
IF LINE DOES NOT MEASURE 1 INCH, DRAWING IS NOT TO SCALE

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LEVEL 2 - POWER PLAN

Sheet No:
E2.12

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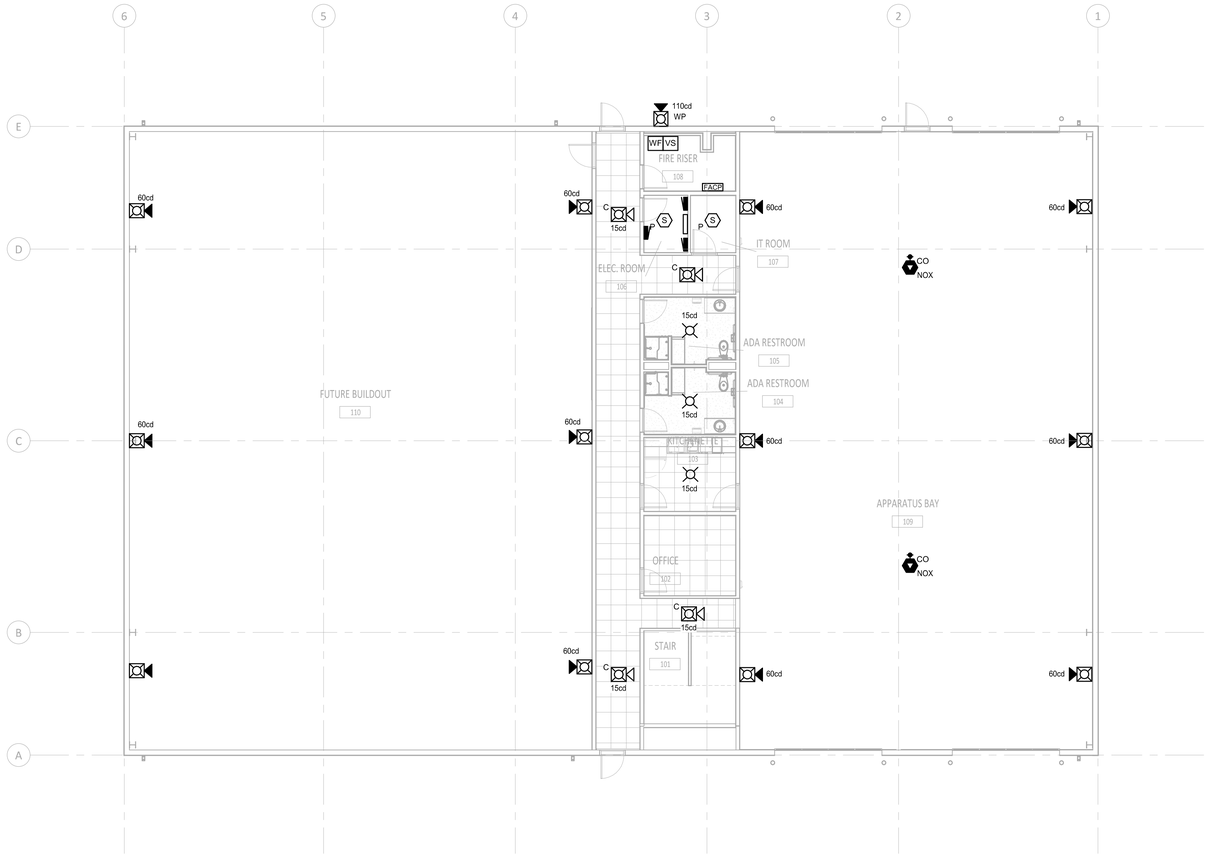
KEYNOTES



LEVEL 1 - FIRE ALARM PLAN

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

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LEVEL 1 - FIRE ALARM PLAN

Sheet No:
E2.21

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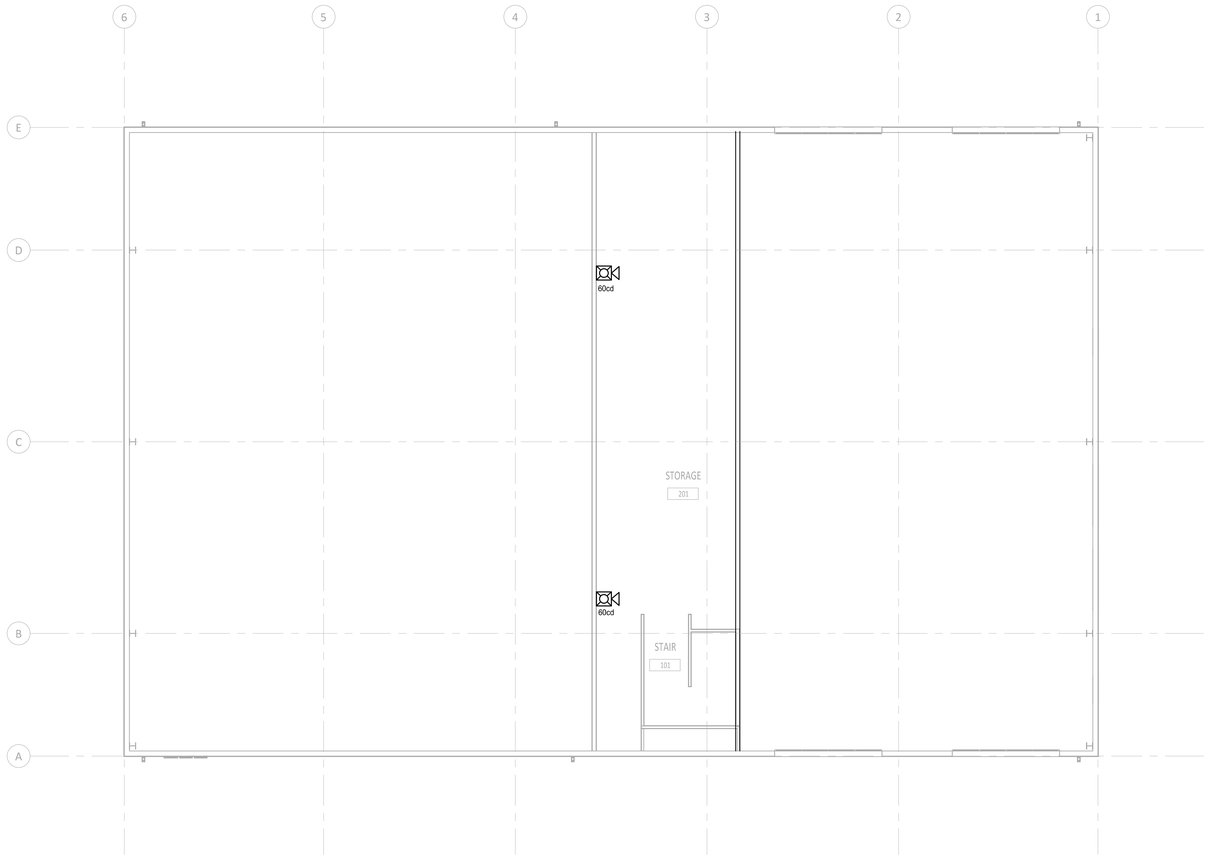
KEYNOTES



LEVEL 2 - FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"

1"
IF LINE DOES NOT MEASURE 1 INCH, DRAWING IS NOT TO SCALE

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Project No:	19-029
Date:	2/29/2024
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Sheet Name:
LEVEL 2 - FIRE ALARM PLAN

Sheet No:
E2.22

Panel LA

Location: ELEC. ROOM 106
Supply From: MDCA
Mounting: Surface
Enclosure: Type 1

Voltage: 120/208 Wye
Phase: 3
Wire: 4

A.I.C. Rating: 10,000
Mains Type: MLO
Bus Rating: 225 A

Circuit Notes:

Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note
	1	R-HALL	R	20 A	1	720 VA	0 VA		1	20 A	--	SPARE	2	
	3	R-KITCHEN	R	20 A	1		540 VA	0 VA	1	20 A	--	SPARE	4	
	5	GARBAGE DISPOSAL	R	20 A	1			1176 VA	0 VA	1	20 A	--	SPARE	6	
	7	R-ICE MAKER	K	20 A	1	1800 VA	0 VA			1	20 A	--	SPARE	8	
	9	R-MICROWAVE	K	20 A	1		1000 VA	0 VA		1	20 A	--	SPARE	10	
	11	R-RESTROOMS	R	20 A	1			360 VA	0 VA	1	20 A	--	SPARE	12	
	13	R-OFFICE 102	R	20 A	1	720 VA	0 VA		1	20 A	--	SPARE	14	
	15	R-APP BAY	R	20 A	1		1440 VA	0 VA		1	20 A	--	SPARE	16	
	17	G-APP BAY CEILING	G	30 A	1			360 VA	0 VA	1	20 A	--	SPARE	18	
	19	G-APP BAY CEILING	G	30 A	1	360 VA	0 VA		1	20 A	--	SPARE	20	
	21	TP-1	G	20 A	1		180 VA	0 VA	1	20 A	--	SPARE	22	
	23	R-EF SERVICE	R	20 A	1			540 VA	0 VA	1	20 A	--	SPARE	24	
	25	DRINKING FOUNTAIN	R	20 A	1	180 VA	0 VA		1	20 A	--	SPARE	26	
	27	SPARE	--	20 A	1		0 VA	0 VA	1	20 A	--	SPARE	28	
	29	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	30	
	31	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	32	
	33	SPARE	--	20 A	1		0 VA	0 VA	1	20 A	--	SPARE	34	
	35	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	36	
	37	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	38	
	39	SPARE	--	20 A	1		0 VA	0 VA	1	20 A	--	SPARE	40	
	41	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	42	
				Total Load:		3780 VA	3160 VA	2436 VA						
				Total Amps:		32 A	27 A	20 A						
				Phase Balance:		19 % A-B	34 % B-C	60 % C-A						

Load	Type	Connected Load	Demand Factor	Demand Load	Panel Totals	
L	Lighting	0 VA	0.00%	0 VA	**Power Factor:**	1
R	Receptacle	5676 VA	100.00%	5676 VA		
M	Motor	0 VA	0.00%	0 VA	**Total Connected Load:**	9376 VA
C	Continuous	0 VA	0.00%	0 VA	**Total Connected Current:**	26 A
G	General	900 VA	100.00%	900 VA		
K	Kitchen	2800 VA	100.00%	2800 VA	**Total Demand Load:**	9376 VA
E	Existing	0 VA	0.00%	0 VA	**Total Demand Current:**	26 A
O	Other	0 VA	0.00%	0 VA		

General Notes:

Panel LB

Location: ELEC. ROOM 106
Supply From: MDCA
Mounting: Surface
Enclosure: Type 1

Voltage: 120/208 Wye
Phase: 3
Wire: 4

A.I.C. Rating: 10,000
Mains Type: MLO
Bus Rating: 225 A

Circuit Notes:

Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note
	1					288 VA	1248 VA		1	20 A	M	APP BAY RAD HEATER	2	
	3	MAU-1	M	15 A	3			288 VA	1650 VA				4	
	5							288 VA	1650 VA	2	20 A	M	EUH-3	6	
	7	R-MEZZANINE	R	20 A	1	720 VA	790 VA							8	
	9	EBBR-1	M	20 A	2			1000 VA	790 VA	2	15 A	M	EF-1	10	
	11								1000 VA	168 VA	1	15 A	M	EF-2	12	
	13	DS-1	M	15 A	2	65 VA	168 VA				1	15 A	M	EF-3	14	
	15							65 VA	4167 VA						16	
	17	DCP-1	M	20 A	2				63 VA	4167 VA	3	20 A	M	EUH-1	18	
	19					63 VA	4167 VA								20	
	21	WATER HEATER	M	20 A	2			300 VA	180 VA						22	
	23									300 VA	--	1	15 A	R	FURNACE	22
	25					4167 VA	--					1	--	--	SPACE	26
	27	EUH-2	M	20 A	3			4167 VA	--			1	--	--	SPACE	28
	29									4167 VA	--	1	--	--	SPACE	30
	31	CU-1	M	20 A	2	562 VA	--					1	--	--	SPACE	32
	33							562 VA	--			1	--	--	SPACE	34
	35	DSO-1	M	15 A	2					20 VA	--	1	--	--	SPACE	36
	37					20 VA	--					1	--	--	SPACE	38
	39	DESTRATIFICATION FAN	M	20 A	1			1200 VA	--			1	--	--	SPACE	40
	41										--	1	--	--	SPACE	42
				Total Load:		12257 VA		14369 VA		11822 VA						
				Total Amps:		103 A		120 A		99 A						
				Phase Balance:		17 % A-B		22 % B-C		4 % C-A						

Load	Type	Connected Load	Demand Factor	Demand Load	Panel Totals	
L	Lighting	0 VA	0.00%	0 VA	**Power Factor:**	1
R	Receptacle	900 VA	100.00%	900 VA		
M	Motor	37547 VA	108.32%	40672 VA	**Total Connected Load:**	38447 VA
C	Continuous	0 VA	0.00%	0 VA	**Total Connected Current:**	107 A
G	General	0 VA	0.00%	0 VA		
K	Kitchen	0 VA	0.00%	0 VA	**Total Demand Load:**	41572 VA
E	Existing	0 VA	0.00%	0 VA	**Total Demand Current:**	115 A
O	Other	0 VA	0.00%	0 VA		

General Notes:

Switchboard MDCA

Location: ELEC. ROOM 106
Supply From:
Mounting: Surface

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 35,000
Mains Type: MCB
Bus Rating: 400 A
MCB Rating: 400 A

Circuit Notes:

Load	Type	A	B	C	Note
LA	Spare; R; K; G	3780 VA	3160 VA	2436 VA	
LB	R; M	12257 VA	14369 VA	11822 VA	
SPARE	--	0 VA			
		16037 VA	17529 VA	14258 VA	
Refer to one-line diagram for space, spare, and circuit breaker quantities.		136 A	148 A	119 A	
		9	25	14	
		% A-B	% B-C	% C-A	

Load	Type	Connected Load	Demand Factor	Demand Load	Switchboard Totals	
L	Lighting	0 VA	0.00%	0 VA	**Power Factor:**	
R	Receptacle	6576 VA	100.00%	6576 VA		
M	Motor	37547 VA	108.32%	40672 VA	**Total Connected Load:**	47823 VA
C	Continuous	0 VA	0.00%	0 VA	**Total Connected Current:**	133 A
G	General	900 VA	100.00%	900 VA		
K	Kitchen	2800 VA	100.00%	2800 VA	**Total Demand Load:**	50948 VA
E	Existing	0 VA	0.00%	0 VA	**Total Demand Current:**	141 A
O	Other	0 VA	0.00%	0 VA		

General Notes:

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ELECTRICAL PANEL SCHEDULES

Sheet No:
E4.01

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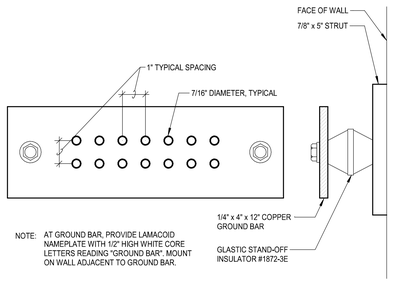
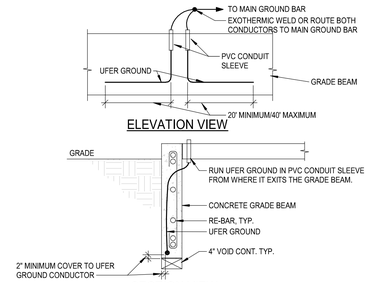
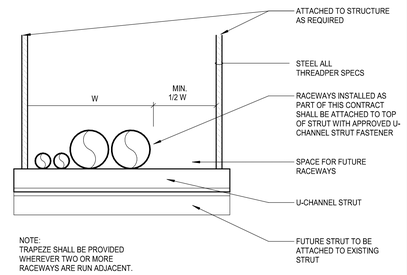


GROUND BAR DETAIL
NO SCALE



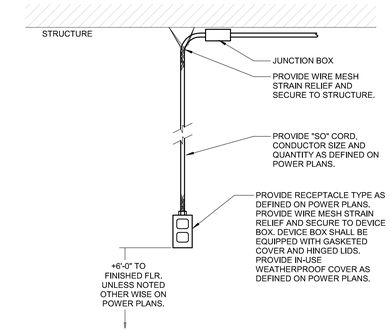
NOTES:
1. INSTALL 20' MINIMUM/40' MAXIMUM UFER GROUND CONDUCTOR IN EACH DIRECTION. PROVIDE BARE COPPER CONDUCTOR SIZED PER NEC TABLE 250-94 OR AS INDICATED ON THE DRAWINGS (#4 AWG SHALL BE THE MINIMUM SIZE).
2. ROUTE UFER GROUND CONDUCTOR, THROUGH PVC CONDUIT SLEEVE.
3. AVOID CONTACT WITH RE-BAR IN CONCRETE. DO NOT TIE DIRECTLY TO RE-BAR, USE SEPARATOR APPROVED BY STRUCTURAL
4. COORDINATE ACTUAL UFER GROUND CONDUCTOR INSTALLATION WITH STRUCTURAL.

UFER GROUND DETAIL
NO SCALE

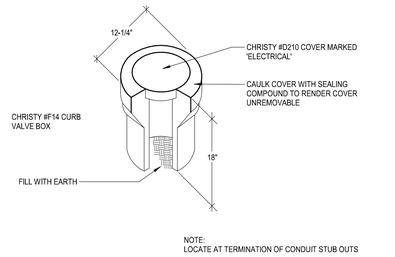


TRAPEZE DETAIL
NO SCALE

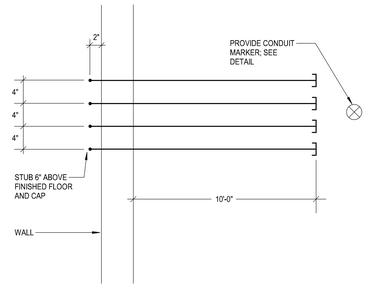
NOTE: SEE SPECIFICATIONS FOR ADDITIONAL SUPPORT, SEISMIC AND OTHER REQUIREMENTS.



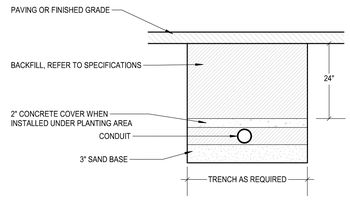
SURFACE MOUNTED CORD DROP DETAIL
NO SCALE



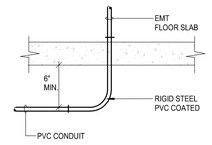
CONDUIT MARKER DETAIL
NO SCALE



TYPICAL CONDUIT STUB
NO SCALE

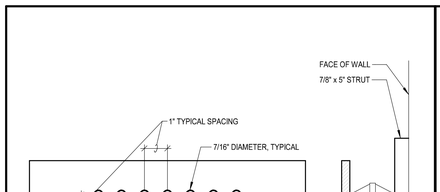


PLASTIC BRANCH CIRCUIT CONDUIT INSTALLATION
NO SCALE



NOTE: PROVIDE LONG SWEEP ELBOWS FOR DATA AND COMMUNICATION CONDUIT INSTALLATION.

CONDUIT RISER DETAIL
NO SCALE



MAIN DISTRIBUTION CENTER NAMEPLATE DETAIL
SCALE: FULL

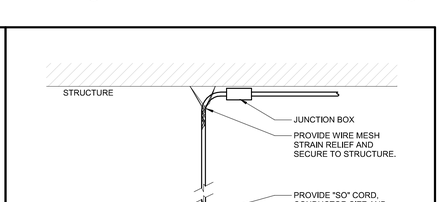
NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.
2. REWORD NAMEPLATE FOR FIELD CONDITIONS.
3. AMP RATING SHALL INDICATE BUS RATING.

SUB-DISTRIBUTION CENTER AND BRANCH PANELBOARD NAMEPLATE DETAIL
SCALE: FULL

NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.
2. REWORD NAMEPLATE FOR FIELD CONDITIONS.
3. AMP RATING SHALL INDICATE BUS RATING.

UTILIZATION EQUIPMENT NAMEPLATE DETAIL
SCALE: FULL

NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.
2. REWORD NAMEPLATE FOR FIELD CONDITIONS.
3. HP SHALL INDICATE HORSEPOWER.



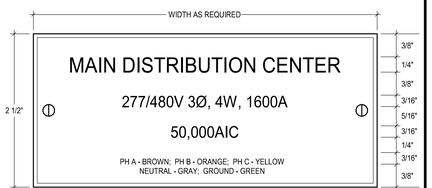
GROUND CONDUCTOR TAG DETAIL
NO SCALE

ALL GROUNDING WORK DONE UNDER THIS CONTRACT SHALL INCLUDE THE FOLLOWING UNLESS SPECIFICALLY EXCLUDED:

A. TAG ALL GROUNDING ELECTRODE CONDUCTORS AND ASSOCIATED BONDING CONDUCTORS AT THEIR POINT OF ATTACHMENT TO GROUND BUS AND GROUNDING ELECTRODE (WHERE POSSIBLE) WITH A ROUND WHITE CORE. GREEN PHENOLIC NAMEPLATE AS SHOWN IN DETAIL 'A'.

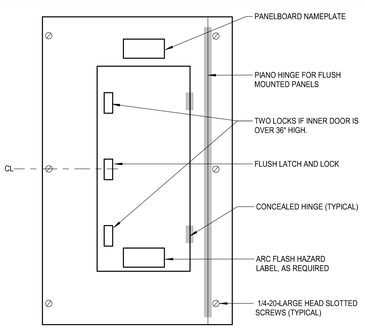
B. IDENTIFY ABOVE REFERENCED CONDUCTORS WITH 6" BAND OF GREEN TAPE AT EACH END AND AT 10'INTERVALS WHERE RUN EXPOSED. STENCIL CONDUITS CONTAINING THESE CONDUCTORS "MAIN GROUND" IN GREEN KROY LETTERS. 1/2" DIAMETER OF CONDUIT IN HEIGHT.

C. SHOW GROUNDING ELECTRODE SYSTEM CONNECTIONS BY IDENTIFYING (ON THE RECORD DRAWING MARK-UPS) WHERE (ROOM NO. AND/OR NAME) AND TO WHAT (ROD, WATER PIPE, GROUND BUS, ETC.) THEY TERMINATE.



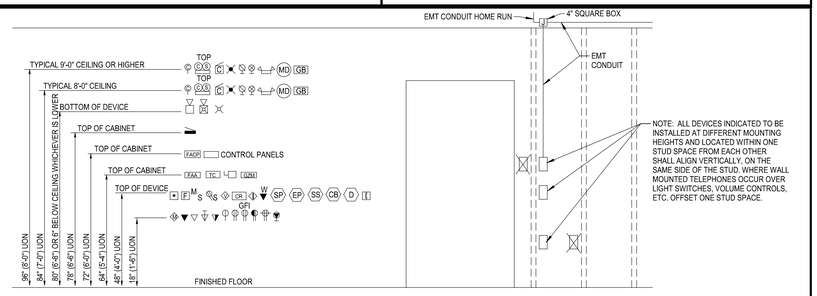
SERVICE ENTRANCE LABEL SECONDARY NAME PLATE DETAIL MAX AVAILABLE FAULT CURRENT
SCALE: FULL

NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.



HINGED TRIM TO BOX PANEL FRONT
NO SCALE

NOTES:
1. ALL BOLTS SHALL HAVE LARGE (3/8") ROUND HEAD. NO WASHERS ALLOWED.
2. TYPICAL FOR ALL 120/208V BRANCH PANELBOARDS.



TYPICAL DEVICE MOUNTING HEIGHTS
NO SCALE

NOTES:
1. HEIGHTS SHOWN ARE TYPICAL TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
2. WHERE EVER DEVICES ARE INDICATED TO BE ABOVE DOORS, DEVICE SHALL BE CENTERED BETWEEN TOP OF DOOR TRIM AND CEILING LINE.
3. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE.
4. DEVICE MOUNTING HEIGHTS SHALL BE PER MOST CURRENT VERSION OF GOVERNING CODES AND STANDARDS NEC, IBC, NFPA, ADA, ETC. WHERE DESCREPANCIES BECOME EVIDENT CONSULT THE ARCHITECT AND ENGINEER OF RECORD.

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Electrical

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Project: TWIN FALLS TRAINING FACILITY
420 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

PERMIT SET – 02.29.2024

Project No:	19-029
Date:	2/29/2024
Checked By:	KO
Drawn By:	BRE

Sheet Name:
ELECTRICAL DETAILS

Sheet No:
E5.01

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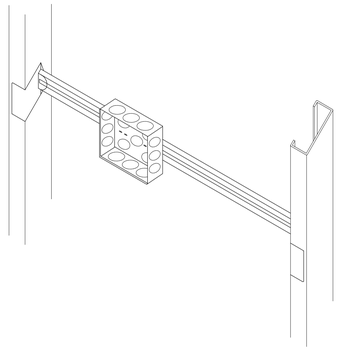
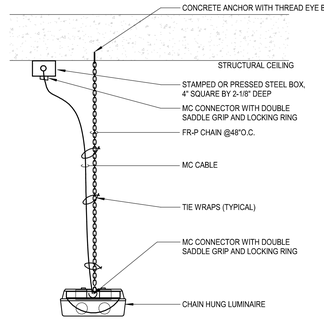
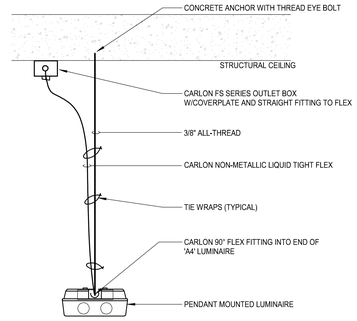


OUTLET BOX SUPPORT DETAIL
NO SCALE



CHAIN HUNG LUMINAIRE MOUNTING DETAIL
NO SCALE
NOTE: SEE SPECIFICATIONS FOR ADDITIONAL SUPPORT, SEISMIC AND OTHER REQUIREMENTS.



PENDANT LUMINAIRE MOUNTING DETAIL
NO SCALE
NOTE: SEE SPECIFICATIONS FOR ADDITIONAL SUPPORT, SEISMIC AND OTHER REQUIREMENTS.

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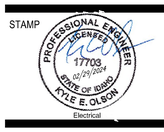

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Sheet Name:
ELECTRICAL DETAILS

Sheet No:
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ABBREVIATIONS LEGEND
(Not all symbols listed below are used on these drawings)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AC	ABOVE COUNTER; MOUNT HORIZONTALLY TO CENTERLINE OF DEVICE, +6" ABOVE COUNTER OR BACK SPLASH	NTS	NOT TO SCALE
AFF	ABOVE FINISHED FLOOR	OC	ON CENTER
AFG	ABOVE FINISHED GRADE	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
ARF	ABOVE RAISED FLOOR	OFOI	OWNER FURNISHED, OWNER INSTALLED
BFG	BELOW FINISHED GRADE	OSWF	ON SITE WORK FORCE
BIO	BIO-HAZARD	PB	PULL BOX
C	CONDUIT	PZ	PIEZO/SOUNDER
CATV	CABLE TELEVISION	POS	POINT OF SALES
CCTV	CLOSED CIRCUIT TELEVISION	SB	STAND-BY
CTRL	CONTROL	SCH	SCHEDULER
(E)	EXISTING	TC	TIME CLOCK
EM	EMERGENCY	TP	TAMPER PROOF
EP	EMERGENCY PHONE	TR	TELECOMMUNICATIONS ROOM
ETC	ELAPSE TIME CLOCK	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
EWB	ELECTRIC WHITE BOARD	TYP	TYPICAL
FA	FIRE ALARM	UF	UNDER FLOOR
G	GROUND	UG	UNDER GROUND
I/O P	INPUT / OUTPUT PLATE	UON	UNLESS OTHERWISE NOTED
LD	LOCK DOWN	UPS	UNINTERRUPTIBLE POWER SUPPLY
MAX	MAXIMUM	W/	WITH
MIN	MINIMUM	W/O	WITHOUT
NC	NORMALLY CLOSED	WM	WIREMOLD
NIC	NOT IN CONTRACT	WP	WEATHER PROOF
NO	NORMALLY OPEN	RIO	ROUGH IN ONLY

REFERENCE SYMBOLS LEGEND
(Not all symbols listed below are used on these drawings)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
D	NOTE REFERENCE	###	DOOR NUMBER
1	OWNER/MEDICAL EQUIPMENT REFERENCE		EXISTING TO BE RELOCATED
SHEET #	# = TYPICAL LAYOUT TYPE		TR ZONE LINE
#	T# = LOCATION OF TYPICAL LAYOUT TYPE INFORMATION		REVISION

TECHNOLOGY LEGEND
(Not all symbols listed below are used on these drawings)

SYMBOL	DESCRIPTION		SYMBOL	DESCRIPTION	
	WALL FIELD		# XXX	CEILING MOUNTED OUTLET (# = QTY OF CABLES; XXX= SEE BELOW)	
	TELECOM GROUND BAR			AV = AUDIO VISUAL	SEC = SECURITY
	WIRE BASKET TRAY			WAP=WIRELESS ACCESS POINT	PRJ = PROJECTOR
	CABLE TRAY				
	J-HOOK PATHWAY		T XXX	DATA POWER POLE (XXX = SEE BELOW)	
#	FLOOR SPACE BOX DATA OUTLET(# = QTY OF CABLES)			SEC = SECURITY	SR = SURFACE RACEWAY
#	POKE-THRU (# = QTY OF CABLES)		ZZ	TELEVISION COAXIAL CABLE (ZZ = ELEVATION)	
# XXX ZZ	DATA OUTLET (# = QTY OF CABLES; XXX = SEE BELOW ZZ = ELEVATION)			CEILING MOUNTED TELEVISION COAXIAL OUTLET	
	D = MEDICAL/SUPPLY DISPENSER RED = RED PHONE		J	FLOOR JBOX	
	EEG = EEG NETWORK	T = TRANSLATION PHONE	J XXX	POKE THRU: (XXX = SEE BELOW)	
	EP = EMERGENCY PHONE	TC = TIME CLOCK		FF = FURNITURE FEED	AV = AUDIO VISUAL
	F = FACP	W = WALL PHONE	J XXX ZZ	WALL MOUNTED JBOX (XXX = SEE BELOW; ZZ = ELEVATION)	
	POS = POINT OF SALE	AV = AUDIO VISUAL		DIS = DISPLAY	AV = AUDIO VISUAL
	RAD = RADIOLOGY NETWORK	PRT = PRINTER	PB YY	PULLBOX (YY = SIZE)	
	SR = SURFACE RUNWAY	MFP = MULTI FUNCTIONS PRINTER	C XXX	CLOCK OUTLET (XXX = SEE BELOW)	
	BAS = BUILDING AUTOMATION SYSTEM	WP = WEATHER PROOF		DS = DOUBLE SIDED	DIGITAL (PROVIDE 1 CAT 6 CONNECTION)
	SCH = SCHEDULER	SEC = SECURITY		A = ANALOG	
	CP = CONTROL PANEL	CLK = CLOCK	CS XXX	COMBINATION CLOCK/SPEAKER OUTLET (XXX = SEE BELOW)	
				A = ANALOG	D = DIGITAL
			C	CEILING MOUNTED CLOCK	
			DAS	DISTRIBUTED ANTENNA SYSTEM	
			WAP	WIRELESS ACCESS POINT ENCLOSURE	
				EQUIPMENT RACK	
				WIRE MANAGER	
				CABINET	

SECURITY LEGEND
(Not all symbols listed below are used on these drawings)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	
	WALL FIELD	CR XXX	CARD READER (XXX = SEE BELOW)	
IS	INTERCOM DOOR STATION		BIO = BIOMETRIC	KP = INTEGRATED KEYPAD
IM	INTERCOM MASTER STATION		IL = INTEGRATED LOCK	CB = CODE BLUE ELEVATOR CALL
DA	DURESS ALARM	AO	DOOR AUTO OPENER	
MD	MOTION DETECTOR	DH	DOOR CONTACT	
MD	CEILING MOUNTED MOTION DETECTOR	EL	ELECTRIC DOOR LOCK	
GB	GLASS BREAK DETECTOR	ES	ELECTRIC DOOR STRIKE	
GB	CEILING MOUNTED GLASS BREAK DETECTOR	RX	REQUEST TO EXIT	
PP	PUSH PAD	EH	ELECTRIC HINGE	
KP	KEYPAD	EP	ELECTRIC POWER TRANSFER	
XX	FIXED PTZ SECURITY CAMERA CLG MOUNTED(XX=CAMERA SCHEDULE NUMBER)	PS	POWER SUPPLY	
XX	FIXED SECURITY CAMERA WALL MOUNTED(XX=CAMERA SCHEDULE NUMBER)	ML	MAGNETIC DOOR LOCK	
XX	MULTI SENSOR SECURITY CAMERA (XX=CAMERA SCHEDULE NUMBER)	LO	LOCK OUT	
ECB	EMERGENCY CALL BOX	LD	LOCK DOWN	
		DR	DOOR RELEASE	
			SECURITY CAMERA FIELD OF VIEW	

TECHNOLOGY RESPONSIBILITY MATRIX

	GC		EC		MC		SCC		SEC		OW	
	CF	CI	CF	CI	CF	CI	CF	CI	CF	CI	OF	OI
STRUCTURED CABLING												
CONDUIT/BOX ROUGH-IN/SLEEVE			X	X								
GROUNDING/POWER/LIGHTING			X	X								
CABLE TRAY			X	X								
CABLING							X	X				
TELECOM ROOM EQUIPMENT												
• RACKS/LADDER RACK							X	X				
• RACKS/LADDER RACK GROUND							X	X				
• PDU											X	X
• UPS											X	X
PATCH CORDS											X	X
FIRE STOP							X	X				
NETWORK EQUIPMENT											X	X
BACKBOARD	X	X										
TELECOM ROOM COOLING					X	X						
WIRELESS LAN												
CONDUIT/BOX ROUGH-IN/SLEEVE			X	X								
CABLING							X	X				
ACCESS POINT ENCLOSURE							X	X				
ACCESS POINT											X	X
CONTROLLER/NETWORK SWITCH											X	X
PROGRAMMING/TESTING/VERIFICATION											X	X
ACCESS CONTROL												
CONDUIT/BOX ROUGH-IN			X	X								
GROUNDING/POWER			X	X								
CABLING											X	X
CENTRAL POWER SUPPLIES											X	X
DOOR HARDWARE*												
• INTEGRATED LOCK											X	X
• ELECTRIFIED LOCK/HARDWARE	X	X										
• DOOR CONTACT											X	X
• REQUEST TO EXIT DEVICE											X	X
ACCESS CONTROL SYSTEM EQUIPMENT											X	X
PROGRAMMING											X	X
LICENSING											X	X
FIRE ALARM INTEGRATION			X	X								
LOCK DOWN INTEGRATION	N/A											
AUTO OPENER INTEGRATION			X	X								
VIDEO SURVEILLANCE INTEGRATION											X	X
CLIENT WORKSTATION LICENSING/SOFTWARE											X	X
CLIENT WORKSTATION HARDWARE											X	X
BADGING EQUIPMENT											X	X
NETWORK SWITCH											X	X

GC = GENERAL CONTRACTOR
EC = ELECTRICAL CONTRACTOR
MC = MECHANICAL CONTRACTOR
SCC = STRUCTURED CABLING CONTRACTOR
SEC = SECURITY CONTRACTOR
AVC = AUDIO VISUAL CONTRACTOR
OHP = OVERHEAD PAGING CONTRACTOR
OW = OWNER

CF = CONTRACTOR FURNISHED
CI = CONTRACTOR INSTALLED
OF = OWNER FURNISHED
OI = OWNER INSTALLED

GENERAL NOTES:

1. WORK INCLUDED IN THE CONTRACT IS DENOTED IN BOLD. EXISTING CONDITIONS TO REMAIN ARE DENOTED LIGHTLY.
2. PROTECT STRUCTURE AND OWNER EQUIPMENT FROM DAMAGE. IMMEDIATELY REPLACE OR REPAIR, TO ORIGINAL CONDITION, DAMAGE CAUSED BY THE CONTRACTOR WHETHER EQUIPMENT APPEARS TO BE CURRENTLY IN USE OR NOT, UNLESS WRITTEN AUTHORIZATION FROM THE OWNER INDICATED OTHERWISE. PREPARE LISTING OF ALL EXISTING DAMAGED ITEMS AND SUBMIT TO OWNER PRIOR TO BEGINNING WORK.
3. INSTALL CONDUIT CONCEALED IN FINISHED AREAS UNLESS OTHERWISE NOTED. PAINT EXPOSED CONDUIT TO MATCH EXISTING FINISHES WITHIN THE SURROUNDING AREA.
4. DO NOT ROUTE CONDUIT WITHIN STRUCTURAL OR TOPPING SLABS OF FLOORS UNLESS SPECIFICALLY NOTED OTHERWISE AND WRITTEN APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.
5. FIRE SEAL ALL FIRE RATED WALL AND FLOOR PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS.
6. A DETAILED WRITTEN METHOD OF PROCEDURE IS REQUIRED WHEN A CONSTRUCTION ACTIVITY OR AN OUTAGE AFFECTS THE SAFETY OF OCCUPANTS, TELEPHONE/DATA/FIRE ALARM EQUIPMENT OR COMPONENTS OF ANY SYSTEM WHICH SUPPORTS THIS EQUIPMENT OR ESSENTIALLY AFFECTS THE BUILDING MANAGEMENT, OPERATIONS OR SECURITY. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. EXISTING INFORMATION SHOWN ON THE DRAWINGS HAS BEEN TAKEN FROM OWNER FURNISHED DRAWINGS AND/OR LIMITED FIELD OBSERVATIONS. CATOR, RUMA & ASSOCIATES IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THESE DRAWINGS.

TECHNOLOGY PLAN NOTES:

1. PROVIDE 4 11/16" SQUARE DEEP OUTLET BOX AND SINGLE GANG MUD RING FOR ALL TELE/DATA OUTLETS. ROUTE 1" CONDUIT FROM EACH OUTLET TO ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE. PROVIDE INSULATED THROAT CONNECTOR ON CONDUIT END. KEEP ALL EXPOSED CONDUITS TIGHT TO STRUCTURE.
2. PROVIDE 4 11/16" SQUARE DEEP OUTLET BOX AND SINGLE GANG MUD RING FOR ALL SECURITY, AND ACCESS CONTROL. ROUTE 3/4" CONDUIT FROM EACH OUTLET TO ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE. PROVIDE INSULATED THROAT CONNECTOR ON CONDUIT END. KEEP ALL EXPOSED CONDUITS TIGHT TO STRUCTURE.
3. ALL CONDUITS DEDICATED FOR TECHNOLOGY SYSTEMS SHALL BE INSTALLED IN EMT UNLESS OTHERWISE NOTED. FLEX CONDUIT SHALL NOT BE USED WITHOUT PRIOR APPROVAL FROM ENGINEERT OR OWNER.
4. CONDUITS DEDICATED FOR TECHNOLOGY SYSTEMS SHOULD NOT EXCEED 100' OR CONTAIN MORE THAN 180 DEGREES OF TOTAL BENDS WITHOUT UTILIZING APPROPRIATELY SIZED PULL BOXES.
5. MINIMUM BEND RADII FOR CONDUITS DEDICATED FOR TECHNOLOGY SYSTEMS SHALL BE 6 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS 2" OR LESS AND 10 TIMES THE DIAMETER OF THE CONDUITS EXCEEDING 2". L-BENDS SHALL NOT BE USED.
6. PROVIDE AN 8' SERVICE LOOP AT STATION END OF ALL CABLE RUNS.
7. PROVIDE CAT 6 CABLE WITH A 20' SERVICE LOOP AT ALL WIRELESS ACCESS POINT LOCATIONS. TERMINATE CABLE ON A SURFACE MOUNT OULTLET BOX.
8. HOMERUN ALL VOICE, DATA, AND TELEVISION CABLES TO DESIGNATED CONTROL PANELS, PATCH PANELS, OR WALL FIELDS IN TELECOMMUNICATION ROOM. PROVIDE J-HOOK TYPE CABLE SUPPORTS IN OPEN OR ACCESSIBLE CEILING SPACE AS REQUIRED TO SUPPORT CABLES IN ROUTE TO TELECOMMUNICATIONS ROOM. ROUTE CABLE SUPPORTS SUCH THAT CABLE VISIBILITY WILL BE MINIMIZED IN ANY OPEN CEILING AREAS.
9. COORDINATE AND VERIFY EXACT MOUNTING LOCATIONS OF WALL, CEILING, AND FLOOR DEVICES WITH ARCHITECTURAL ELEVATIONS, AND ANY FURNITURE OR SPECIALTY EQUIPMENT SUPPLIER DRAWINGS PRIOR TO ROUGH-IN.
10. PROVIDE A HYBRID CABLE WITH THE FOLOOWING CONDUCTOR COMBINATIONS FOR ACCESS CONTROL DEVICEC LOCATIONS: 22/6 SHIELDED - 16/4 - 22/4 - 22/2 .

CITY APPROVED PLANS
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Sheet Name:
TECHNOLOGY LEGENDS & NOTES

Sheet No:
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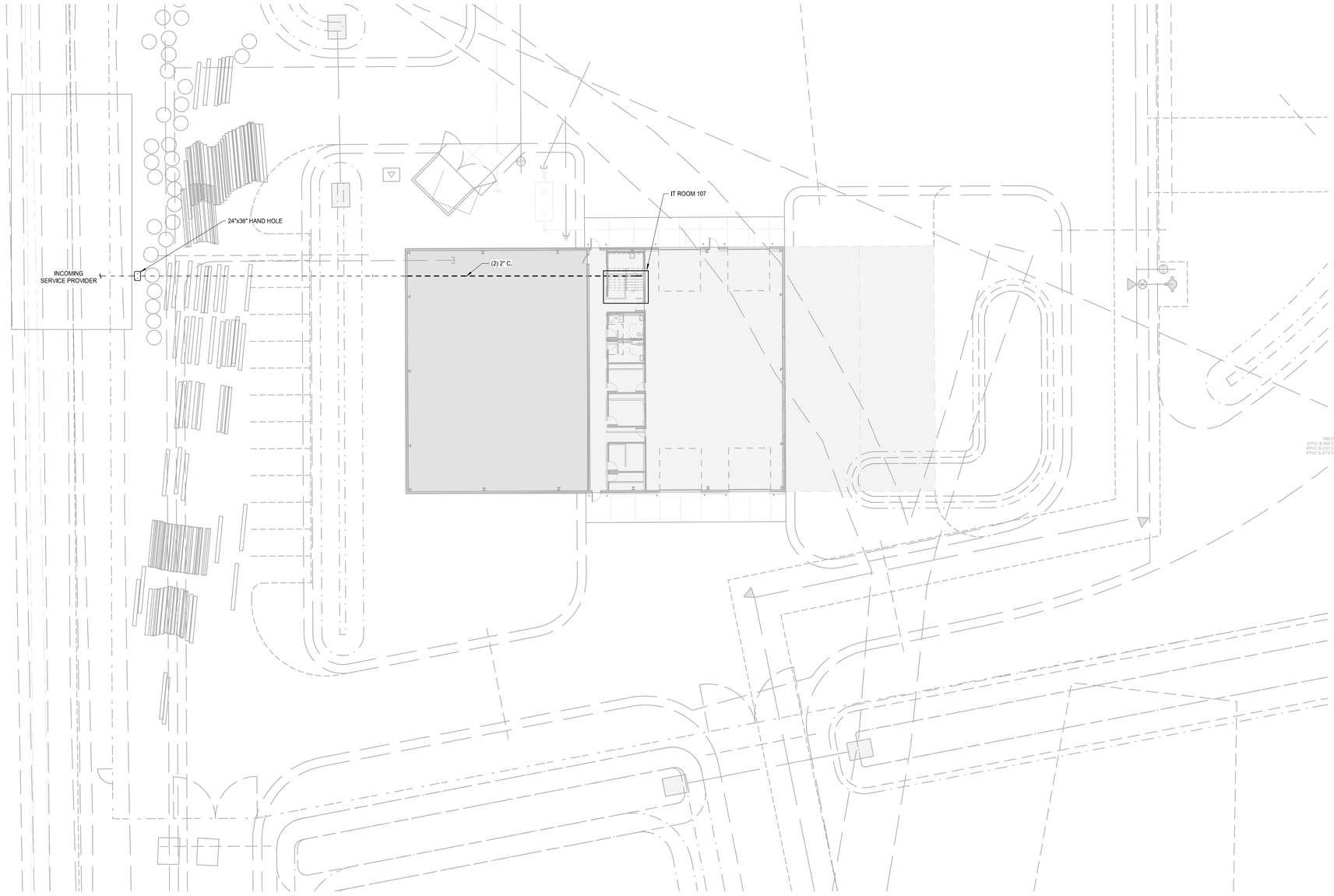
KEYNOTES



TECHNOLOGY SITE PLAN
SCALE: 1/16" = 1'-0"

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Project:
TWIN FALLS TRAINING FACILITY
420 VICTORY AVENUE, TWIN FALLS, ID 83301-5593

PERMIT SET – 02.29.2024

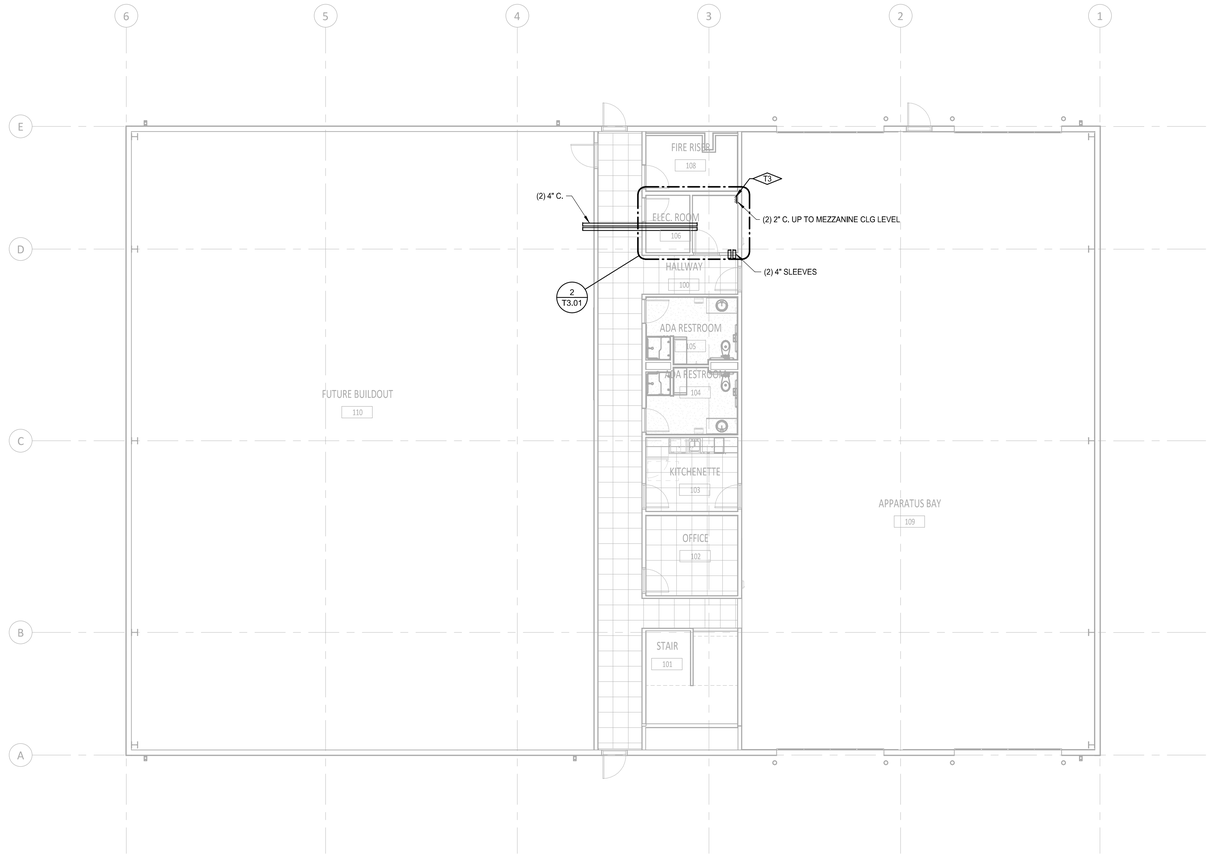
Project No:	19-029
Date:	2/29/2024
Checked By:	CMK
Drawn By:	JMS

Sheet Name:
TECHNOLOGY SITE PLAN

Sheet No:
T1.01

2/29/2024 2:01:03 PM
P:\Work\2020\2020-481 Twin Falls Fire Training Facility\Cad

KEYNOTES	
T3	ROUTE (1) 2" C. WITH WEATHER HEAD TO ROOF FOR RADIO ANTENNA. COORDINATE EXACT ANTENNA LOCATION WITH ARCHITECT AND RADIO VENDOR.



LEVEL 1 - TECHNOLOGY PATHWAY PLAN

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

CITY APPROVED PLANS
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LEVEL 1 - TECHNOLOGY PATHWAY PLAN

Sheet No:
T2.01

2/29/2024 2:31:04 PM
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KEYNOTES

LEVEL 2 - TECHNOLOGY PATHWAY PLAN
SCALE: 1/8" = 1'-0"

1"
IF LINE DOES NOT MEASURE 1 INCH, DRAWING IS NOT TO SCALE

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LEVEL 2 - TECHNOLOGY PATHWAY PLAN

Sheet No:
T2.02

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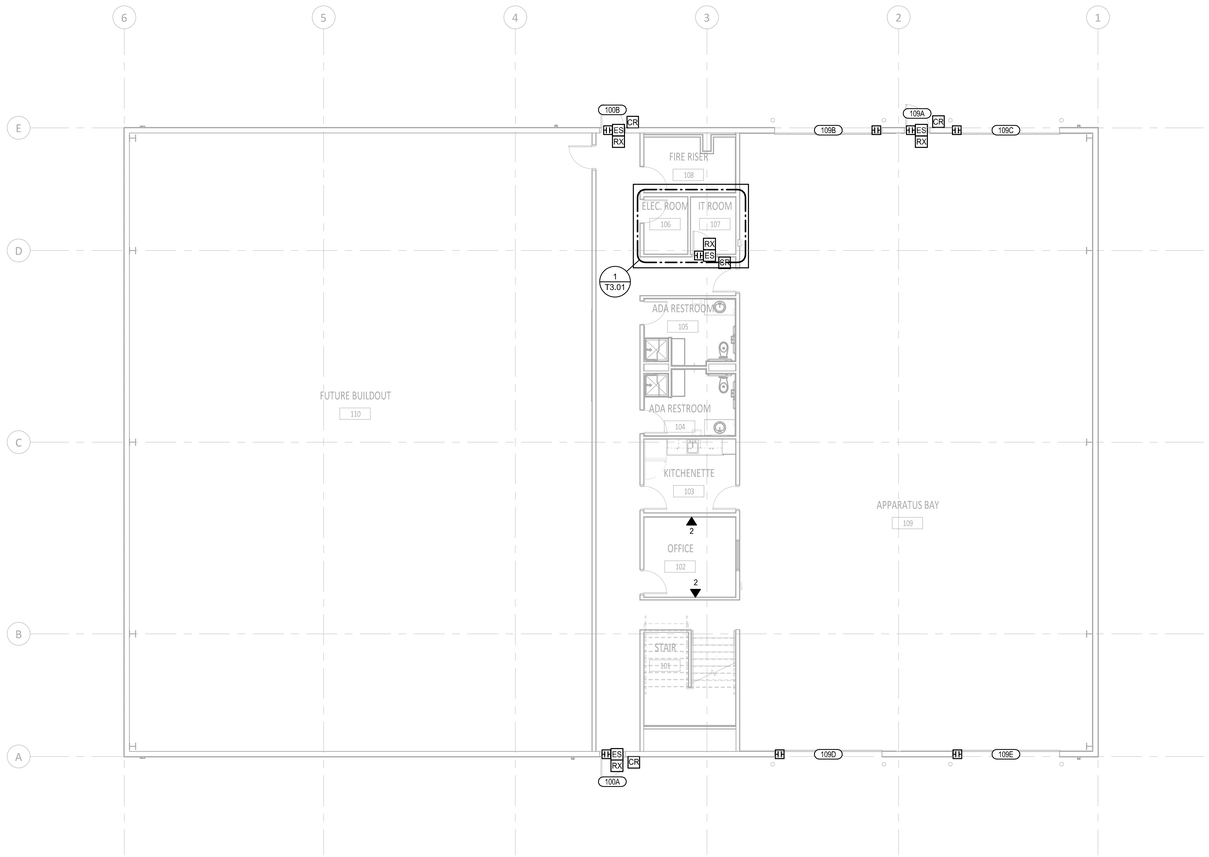
KEYNOTES



LEVEL 1 - TECHNOLOGY FLOOR PLAN

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

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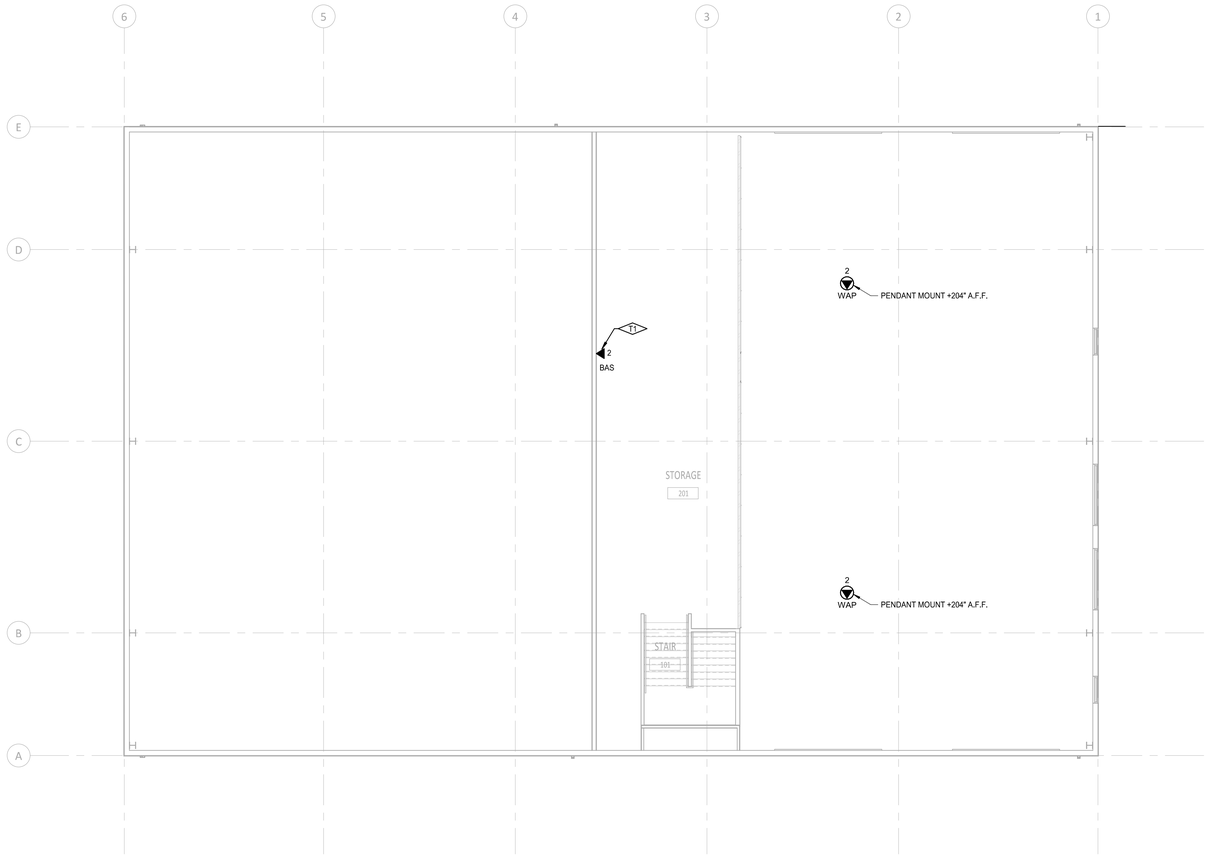
Sheet Name:
LEVEL 1 - TECHNOLOGY FLOOR PLAN

Sheet No:
T2.11

2/29/2024 2:01:06 PM
P:\Active\2020\2020-181 Twin Falls Fire Training Facility\Cad

KEYNOTES	
T1	COORDINATE EXACT LOCATION AND TERMINATION REQUIREMENTS WITH MECHANICAL CONTRACTOR.



LEVEL 2 - TECHNOLOGY FLOOR PLAN

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

1"
IF LINE DOES NOT MEASURE 1 INCH, DRAWING IS NOT TO SCALE

CITY APPROVED PLANS
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LEVEL 2 - TECHNOLOGY FLOOR PLAN

Sheet No:
T2.12

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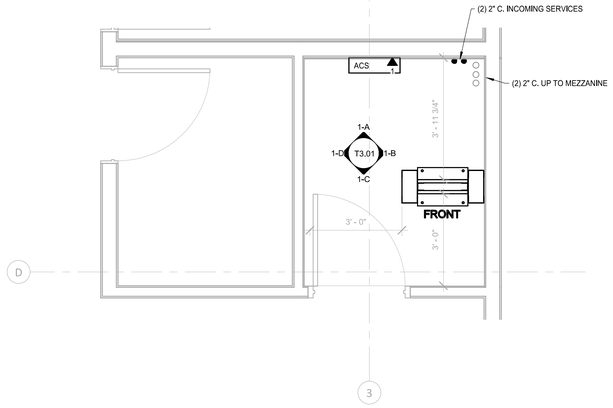
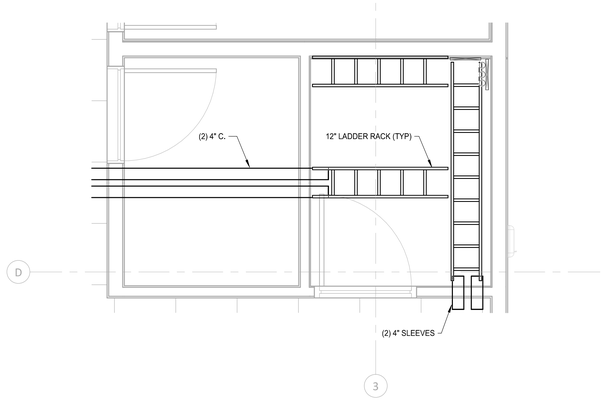
KEYNOTES

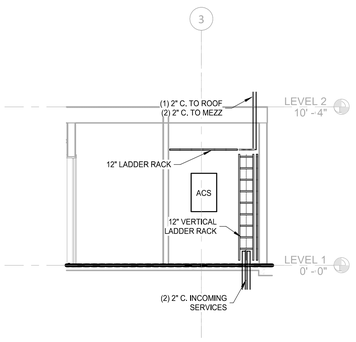


1 / T2.11 TECHNOLOGY FLOOR PLAN - IT ROOM 107
SCALE: 1/2" = 1'-0"

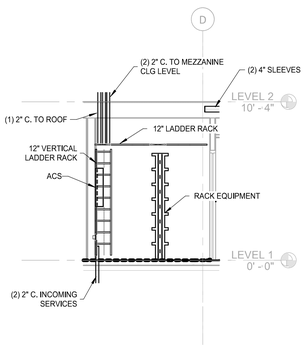


2 / T2.01 TECHNOLOYG RCP PLAN - IT ROOM 107
SCALE: 1/2" = 1'-0"

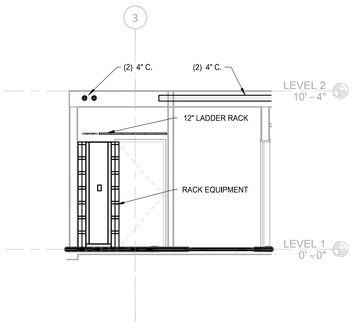
NOTE:
PROVIDE 3/4" AC GRADE FIRE RETARDANT PLYWOOD FROM 6" ABOVE FLOOR LEVEL TO 8'-6" A.F.F. ON THE INTERIOR WALLS. PAINT WHITE, LEAVING ONE FIRE RATING STAMP VISIBLE PER PIECE OF PLYWOOD.



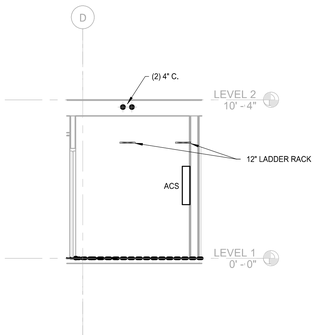
ELEVATION 1-A
SCALE: NONE



ELEVATION 1-B
SCALE: NONE



ELEVATION 1-C
SCALE: NONE



ELEVATION 1-D
SCALE: NONE

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Sheet Name:
TECHNOLOGY ENLARGED PLAN SERIES

Sheet No:
T3.01

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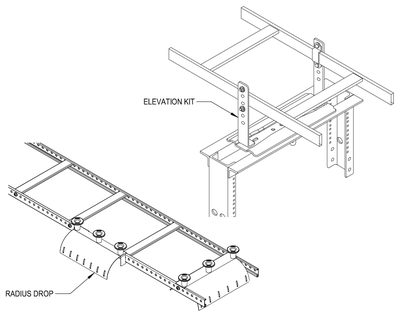
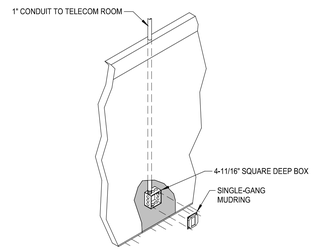


LADDER RACK ACCESSORIES

NO SCALE

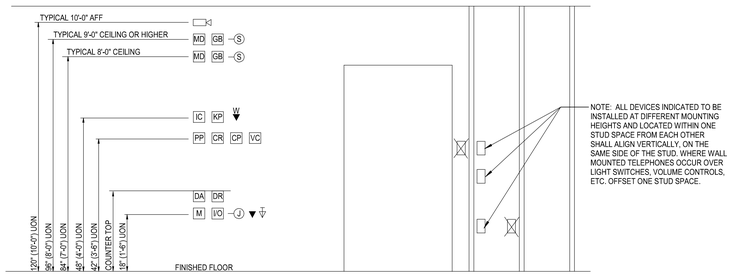
NOTES:

1. PROVIDE RADIUS DROP AT EACH EQUIPMENT RACK LOCATION.
2. PROVIDE ELEVATION KIT AS REQUIRED FOR LADDER RACK INSTALLATION.



OUTLET ROUGH-IN DETAIL

NO SCALE

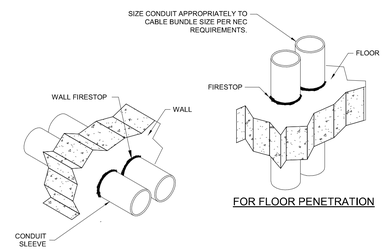


TYPICAL DEVICE MOUNTING HEIGHTS

NO SCALE

NOTES:

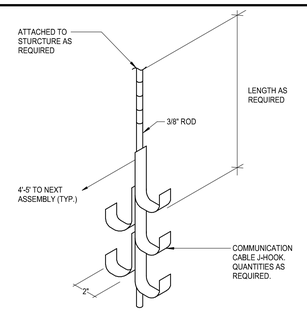
1. HEIGHTS SHOWN ARE TYPICAL TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
2. WHERE EVER DEVICES ARE INDICATED TO BE ABOVE DOORS, DEVICE SHALL BE CENTERED BETWEEN TOP OF DOOR TRIM AND CEILING LINE.
3. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE.



FOR FLOOR PENETRATION

RATED WALL PENETRATION DETAIL

NO SCALE



NOTE:
ALL WIRES AND CABLES SHALL BE SUPPORTED. MAXIMUM SPACING BETWEEN HOOKS SHALL BE 4' to 5'. ATTACH HOOK ASSEMBLY TO BUILDING STRUCTURE. ALL CABLE RUNS TO BE PERPENDICULAR AND PARALLEL TO BUILDING WALLS.

CABLE SUPPORT SYSTEM DETAIL

NO SCALE

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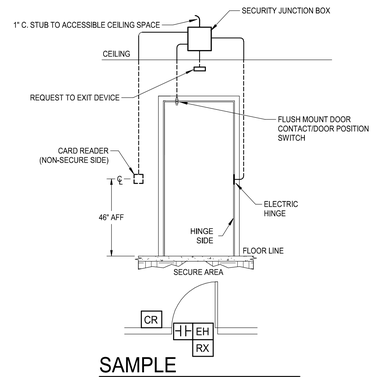
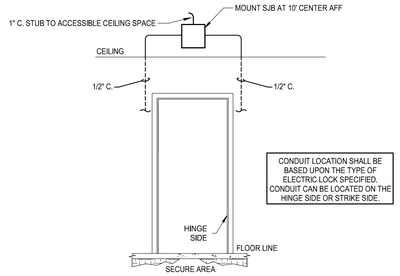
DOOR DETAIL NOTES

1. COORDINATE SECURITY ROUGH-IN REQUIREMENTS WITH SECURITY VENDOR.
2. SECURITY JUNCTION BOX (SJB) SHALL BE 6X6X6 WITH SCREW COVER.
3. ENCLOSURE AND CONDUIT TO BE PROVIDED BY ELECTRICAL CONTRACTOR (EC).
4. DOOR HEADER CONDUIT TO BE STUBBED TO JUST ENTER HEADER FRAME 3" TO 4" FROM OPENING SIDE OF DOOR.
5. IF CONDUIT IS REQUIRED, INSTALL BY APPLICABLE CODE AND AUTHORITY HAVING JURISDICTION (AHJ).
6. ALL DOOR HARDWARE SHOULD BE COORDINATED WITH ARCHITECT OWNER, AND DOOR CONTRACTOR. CONSULT DIVISION 08 SPECIFICATIONS. FOR HARDWARE COORDINATION.
7. COORDINATE ROUGH-IN REQUIREMENTS WITH SECURITY VENDOR.

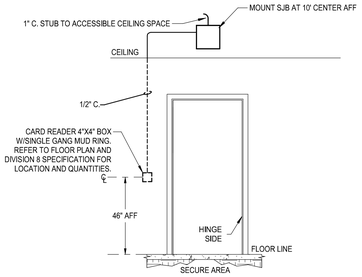


SAMPLE
NO SCALE

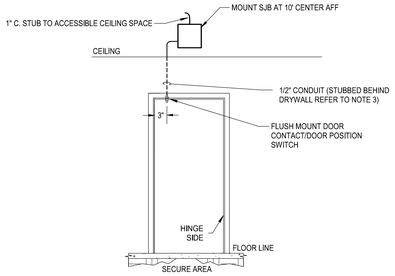
ELECTRIC LOCK NOT SPECIFIED



EL — SINGLE DOOR
NO SCALE



CR — SINGLE DOOR
NO SCALE



HH — SINGLE DOOR
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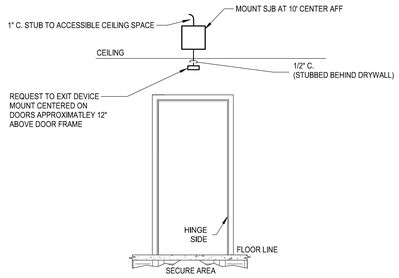
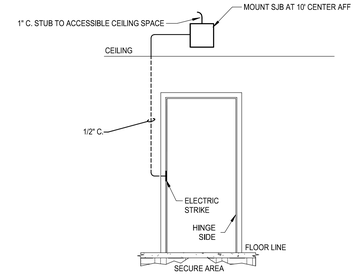


RX — SINGLE DOOR
NO SCALE



ES — SINGLE DOOR
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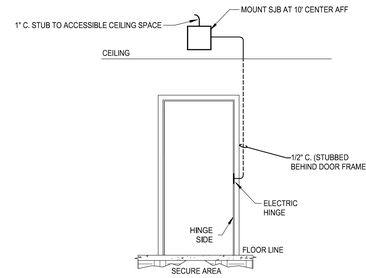

EH — SINGLE DOOR
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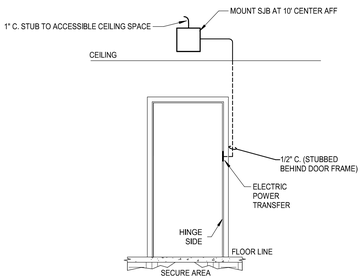

EP — SINGLE DOOR
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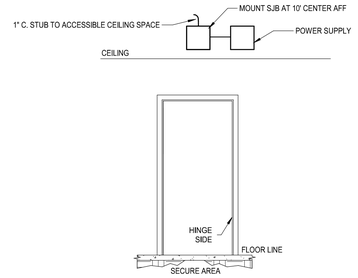
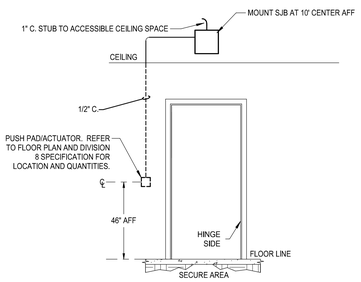
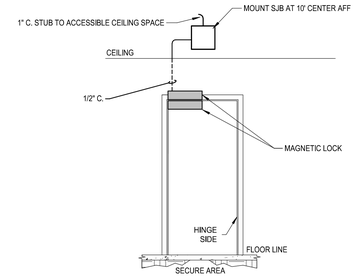


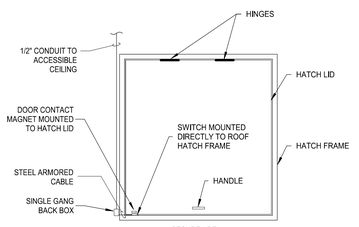
PS — SINGLE DOOR
NO SCALE



PP — SINGLE DOOR
NO SCALE

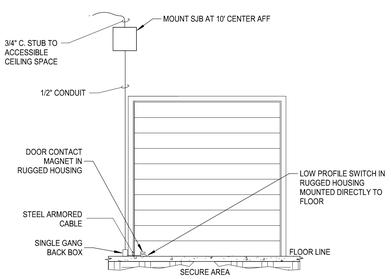


ML — SINGLE DOOR
NO SCALE



NOTES:
1. SECURITY JUNCTION BOX (SJB) SHALL BE 4X4 WITH SCREW COVER.
2. ENCLOSURE AND CONDUIT TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
3. IF CONDUIT IS REQUIRED, INSTALL BY APPLICABLE CODE AND AUTHORITY HAVING JURISDICTION (AHJ).

ROOF HATCH
NO SCALE



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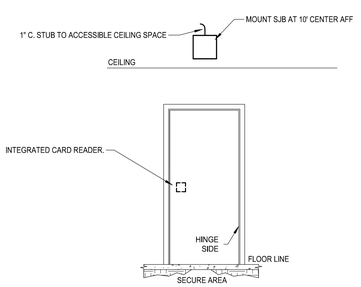
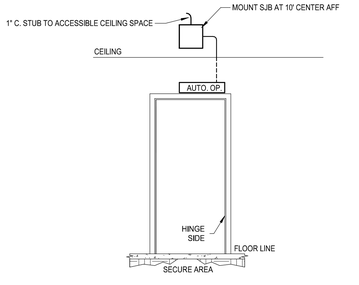
3. IF CONDUIT IS REQUIRED, INSTALL BY APPLICABLE CODE AND AUTHORITY HAVING JURISDICTION (AHJ).

ROLL UP DOOR
NO SCALE



CR IL — SINGLE DOOR
NO SCALE



AO — SINGLE DOOR
NO SCALE

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SINGLE DOOR SECURITY DETAILS

Sheet No:
T5.02

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GENERAL NOTES:

1. MATERIALS

	ASTM DESCRIPTION
STRUCTURAL STEEL PLATE	A529 / A572 / A1011
HOT ROLLED MILL SHAPES	A36 / A529 / A500
HHS ROUND	A500
HHS RECTANGULAR	A500
COLD FORM SHAPES	A653 / A1011
ROOF AND WALL SHEETING	A653 / A792
BOLTS	A307 / A325 / A490
CABLE	A475
RODS	A529 / A572

2. STRUCTURAL PRIMER NOTE:

SHOP COAT PRIMER IS INTENDED TO PROTECT THE STEEL FRAMING FOR A SHORT PERIOD OF TIME. STORAGE IN EXTREME COLD TEMPERATURES OR WINTER SNOW CONDITIONS, INCLUDING TRANSPORTATION ON SALTED OR CHEMICALLY TREATED ROADS WILL ADVERSELY AFFECT THE DURABILITY AND LONGEVITY OF THE PRIMER. THE COAT OF SHOP PRIMER DOES NOT PROVIDE THE UNIFORMITY OF APPEARANCE, OR THE DURABILITY AND CORROSION RESISTANCE OF A FIELD APPLIED FINISH COAT OF PAINT OVER A SHOP PRIMER. MINOR ABRASIONS TO THE SHOP COAT PRIMER CAUSED BY HANDLING, LOADING, SHIPPING, UNLOADING AND ERECTION ARE UNAVOIDABLE AND ARE NOT THE RESPONSIBILITY OF THE METAL BUILDING MANUFACTURER. METAL BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR THE DETERIORATION OF THE PRIMER OR CORROSION THAT MAY RESULT FROM ATMOSPHERIC AND ENVIRONMENTAL CONDITIONS NOR THE COMPATIBILITY OF THE PRIMER TO ANY FIELD APPLIED COATING.

3. BUILDING ERECTION NOTES:

THE GENERAL CONTRACTOR AND/OR ERECTOR IS RESPONSIBLE TO SAFELY AND PROPERLY ERECT THE METAL BUILDING SYSTEM IN CONFORMANCE WITH THESE DRAWINGS, OSHA REQUIREMENTS, AND EITHER MBMA OR CSA S16 STANDARDS PERTAINING TO PROPER ERECTION. TEMPORARY SUPPORTS SUCH AS GUYS, BRACES, FALSEWORK, CRIBBING OR OTHER ELEMENTS FOR ERECTION ARE TO BE DETERMINED, FURNISHED AND INSTALLED BY THE ERECTOR. THESE SUPPORTS MUST SECURE THE STEEL FRAMING, OR PARTLY ASSEMBLED STEEL FRAMING, AGAINST LOADS COMPARABLE IN INTENSITY TO THOSE FOR WHICH THE STRUCTURE WAS DESIGNED IN ADDITION TO LOADS RESULTING FROM THE ERECTION OPERATION. SECONDARY WALL AND ROOF FRAMING (PURLINS, GIRTS AND/OR JOIST) ARE NOT DESIGNED TO FUNCTION AS A WORKING PLATFORM OR TO PROVIDE AS AN ANCHORAGE POINT FOR A FALL ARREST /SAFETY TIE OFF.

4. SPECIAL INSPECTION:

SPECIAL INSPECTIONS AND TESTING THAT MAY BE REQUIRED BY GOVERNMENTAL OR OTHER AUTHORITY DURING CONSTRUCTION AND/OR STEEL FABRICATION (COLLECTIVELY, "INSPECTIONS") ARE NOT THE RESPONSIBILITY OF THE PEMB MANUFACTURER, AND TO THE EXTENT REQUIRED IT SHALL BE THE RESPONSIBILITY OF THE OWNER AND/OR THE OWNER'S REPRESENTITIVE. IN THE EVENT INSPECTIONS ARE REQUIRED, THE OWNER AND/OR THE OWNER'S REPRESENTITIVE SHALL EMPLOY A THIRD PARTY QUALITY ASSURANCE TESTING AGENCY APPROVED BY THE RELEVANT AUTHORITY. IF SUCH REQUIREMENTS ARE NOT SPECIFICALLY INCLUDED IN THE PEMB MANUFACTURER'S SALES DOCUMENTS, NO INSPECTIONS BY THE PEMB MANUFACTURER OR AT THE PEMB MANUFACTURER'S FACILITY SHALL BE MADE. THE PEMB MANUFACTURER'S FACILITIES ARE ACCREDITED BY IAS AC472.

5. A325 & A490 BOLT TIGHTENING REQUIREMENTS:

IT IS THE RESPONSIBILITY OF THE ERECTOR TO ENSURE PROPER BOLT TIGHTNESS IN ACCORDANCE WITH APPLICABLE REGULATIONS. FOR PROJECTS IN THE UNITED STATES, SEE THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS OR FOR PROJECTS IN CANADA, SEE THE CAN/CSA S16 LIMIT STATES DESIGN OF STEEL STRUCTURES FOR MORE INFORMATION.

THE FOLLOWING CRITERIA MAY BE USED TO DETERMINE THE BOLT TIGHTNESS (I.E., "SNUG-TIGHT" OR "FULLY-PRETENSIONED"), UNLESS REQUIRED OTHERWISE BY LOCAL JURISDICTION OR CONTRACT REQUIREMENTS:

A) ALL A490 BOLTS SHALL BE "FULLY-PRETENSIONED".
B) ALL A325 BOLTS IN PRIMARY FRAMING (RIGID FRAMES AND BRACING) MAY BE "SNUG-TIGHT", EXCEPT AS FOLLOWS: "FULLY-PRETENSION" A325 BOLTS IF:
   a) BUILDING SUPPORTS A CRANE SYSTEM WITH A CAPACITY GREATER THAN 5 TONS.
   b) BUILDING SUPPORTS MACHINERY THAT CREATES VIBRATION, IMPACT, OR STRESS-REVERSALS ON THE CONNECTIONS. THE ENGINEER-OF-RECORD FOR THE PROJECT SHOULD BE CONSULTED TO EVALUATE FOR THIS CONDITION.
   c) THE PROJECT SITE IS LOCATED IN A HIGH SEISMIC AREA. FOR IBC-BASED CODES, "HIGH SEISMIC AREA" IS DEFINED AS "SEISMIC DESIGN CATEGORY" OF 'D', 'E', OR 'F'. SEE THE "BUILDING LOADS" SECTION ON THIS PAGE FOR THE DEFINED SEISMIC DESIGN CATEGORY FOR THIS PROJECT.
   d) ANY CONNECTION DESIGNATED IN THESE DRAWINGS AS "A325-SC". "SLIP-CRITICAL (SC)" CONNECTIONS MUST BE FREE OF PAINT, OIL, OR OTHER MATERIALS THAT REDUCE FRICTION AT CONTACT SURFACES. GALVANIZED OR LIGHTLY-RUSTED SURFACES ARE ACCEPTABLE.
C) IN CANADA, ALL A325 AND A490 BOLTS SHALL BE "FULLY-PRETENSIONED", EXCEPT FOR SECONDARY MEMBERS (PURLINS, GIRTS, OPENING FRAMING, ETC.) AND FLANGE BRACES.

SECONDARY MEMBERS (PURLINS, GIRTS, OPENING FRAMING, ETC.) AND FLANGE BRACE CONNECTIONS MAY ALWAYS BE "SNUG-TIGHT", UNLESS INDICATED OTHERWISE IN THESE DRAWINGS.

6. GENERAL DESIGN NOTES:

1) ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS ARE DESIGNED IN ACCORDANCE WITH ANSI/AISC 360 "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" OR THE CAN/CSA S16 "LIMIT STATES DESIGN OF STEEL STRUCTURES", AS REQUIRED BY THE SPECIFIED BUILDING CODE.
2) ALL WELDING OF STRUCTURAL STEEL IS BASED ON EITHER AWS D1.1 "STRUCTURAL WELDING CODE - STEEL" OR CAN/CSA W59 "WELDED STEEL CONSTRUCTION (METAL ARC WELDING)", AS REQUIRED BY THE SPECIFIED BUILDING CODE.
3) ALL COLD FORMED MEMBERS ARE DESIGNED IN ACCORDANCE WITH ANSI/AISI S100 OR CAN/CSA S136 "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", AS REQUIRED BY THE SPECIFIED BUILDING CODE.
4) ALL WELDING OF COLD FORMED STEEL IS BASED ON AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL" OR CAN/CSA W59 "WELDED STEEL CONSTRUCTION (METAL ARC WELDING)", AS REQUIRED BY THE SPECIFIED BUILDING CODE.
5) ALL NUCOR BUILDING GROUP FACILITIES ARE IAS AC-472 ACCREDITED FOR DESIGN AND FABRICATION OF METAL BUILDING SYSTEMS. FOR PROJECTS IN CANADA, DESIGN AND FABRICATION ARE DONE ONLY IN FACILITIES THAT ARE ALSO CAN/CSA A660 AND W47.1 CERTIFIED.
6) IF JOISTS ARE INCLUDED WITH THIS PROJECT, THEY ARE SUPPLIED AS A PART OF THE SYSTEMS ENGINEERED METAL BUILDING AND ARE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1926.758 OF THE OSHA SAFETY STANDARDS FOR STEEL ERECTION, DATED JANUARY 18, 2001.
7) COLUMN BASE PLATES ARE DESIGNED NOT TO EXCEED THE ALLOWABLE BEARING STRESS OF CONCRETE THAT HAS A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I. AT 28 DAYS.

BUILDING INFORMATION

PRIMER COLORS
PRIMARY PRIMER COLOR: RED SECONDARY PRIMER COLOR: RED

ROOF SHEETING
TYPE: SS3 GAUGE: 24 FINISH: Galvalume Plus CLIP TYPE: Short
THERMAL BLOCKS: YES EPS FOAM SPACER: No ROOF LINE TRIM, PAINTED: Brite Red PVDF
YES☒ NO☐ DOWNSPOUTS PAINTED: Brite Red PVDF GUTTERS PAINTED: Brite Red PVDF
YES☒ NO☐ INSULATION 4.38 INCH (NOT BY MBS)
YES☐ NO☒ PIPE JACKS, SIZE: QUANTITY:
YES☐ NO☒ RIDGE VENTS, 10'-0" LONG X 9" THROAT. QUANTITY:
YES☐ NO☒ ROOF FRAMED OPENINGS, SEE ROOF FRAMING PLAN FOR SIZES
YES☐ NO☒ COMPOSITE SS3 DECK, TYPE: N/A GAUGE: FINISH:

WALL SHEETING
TYPE: RPW GAUGE: 26 FINISH: Pearl Gray PVDF
CORNER TRIM, PAINTED: Brite Red PVDF BASE TRIM, PAINTED: Burnished Slate SP
YES☐ NO☒ WALKDOORS, QUANTITY: PAINTED:
YES☐ NO☒ WINDOWS, QUANTITY: PAINTED:
YES☒ NO☐ INSULATION 4.38 INCH (NOT BY MBS)

WALL FRAMED OPENINGS
YES☒ NO☐ FRAMED OPENING TRIM, PAINTED: Brite Red PVDF
SIZES: FSW: (2) 14'-0"X14'-0" (1) 3'-4"X7'-2"
BSW: (2) 3'-4"X7'-2" (2) 14'-0"X14'-0"
LEW: none
REW: (2) 3'-4"X7'-2"

BUILDING OPTIONS

YES☐ NO☒ LINER PANELS
FRAMED OPENING TRIM, PAINTED:
WALL: TYPE: GAUGE: FINISH: WALL TRIM, PAINTED:
CEILING: TYPE: GAUGE: FINISH:

YES☐ NO☒ TRANSLUCENT PANELS
WALL:
ROOF:
INSULATED PANELS? YES☐ NO☐

YES☐ NO☒ EAVE EXTENSION
PROJ: TYPE: GAUGE: FINISH: SOFFIT TRIM AT BUILDING LINE PAINTED:

YES☐ NO☒ RAKE EXTENSION
PROJ: TYPE: GAUGE: FINISH: SOFFIT TRIM AT BUILDING LINE PAINTED:

YES☐ NO☒ CANOPY
AT EAVE LINE ☐ BELOW EAVE ☐ PROJECTION: CLEAR UNDER CANOPY BEAM:
ROOF PANEL: TYPE: GAUGE, FINISH:
SOFFIT PANEL: TYPE: GAUGE, FINISH: SOFFIT TRIM AT BUILDING LINE PAINTED:

YES☐ NO☒ PARTITION WALLS
WALL PANEL: TYPE: GAUGE, FINISH: TRIM PAINTED:

YES☐ NO☒ WAINSCOT
WALL PANEL: TYPE: GAUGE, FINISH:
BASE TRIM PAINTED: JAMB TRIM PAINTED: TRANSITION TRIM PAINTED:

YES☐ NO☒ FASCIA
PROJ: TOP OF FASCIA HEIGHT:
FACE PANEL, TYPE: GAUGE, FINISH: CAP TRIM PAINTED:
BACK PANEL, TYPE: GAUGE, FINISH: BASE TRIM PAINTED:
☐ CLOSED SYSTEM, CLEAR UNDER SOFFIT TRIM:
SOFFIT PANEL, TYPE: GAUGE, FINISH: SOFFIT TRIM AT BUILDING LINE PAINTED:
☐ OPEN SYSTEM, (NO SOFFIT PANEL PROVIDED) CLEAR UNDER SOFFIT TRIM:

YES☐ NO☒ PARAPET
☐ STRUCTURAL PARAPET ☐ NON-STRUCTURAL PARAPET TOP OF PARAPET HEIGHT:
BACK PANEL, TYPE: GAUGE, FINISH:

YES☐ NO☒ CRANES (SEE CRANE PLAN FOR ADDITIONAL INFORMATION)
YES☐ NO☒ MEZZANINE (SEE MEZZANINE PLAN FOR ADDITIONAL INFORMATION)

THE DRAWINGS AND THE METAL BUILDING THEY REPRESENT ARE THE PRODUCT OF THE METAL BUILDING MANUFACTURER. THE REGISTERED PROFESSIONAL ENGINEER'S SEAL PERTAINS ONLY TO THE REQUIREMENTS LISTED HEREIN FOR THE MATERIALS DESIGNED AND SUPPLIED BY THE METAL BUILDING MANUFACTURER. THE REGISTERED PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS EMPLOYED OR ENGAGED BY THE METAL BUILDING MANUFACTURER AND DOES NOT SERVE AS OR REPRESENT THE PROJECT ENGINEER OF RECORD AND SHALL NOT BE CONSTRUED AS SUCH.

7. GLOSSARY OF ABBREVIATIONS:

A.B. = ANCHOR BOLTS	MAX = MAXIMUM	REQ'D = REQUIRED
BS = BOTH SIDES	M.B. = MACHINE BOLTS	REV. = REVISION
B.U. = BUILT-UP	MBS = METAL BUILDING SUPPLIER	SIM = SIMILAR
DIA = DIAMETER	TBD = TO BE DETERMINED	SL = STEEL LINE
FLG = FLANGE	N/A = NOT APPLICABLE	N.S. = NEAR SIDE
F.S = FAR SIDE	NIC = NOT IN CONTRACT	MIN = MINIMUM
GA. = GAUGE	SLV = SHORT LEG VERTICAL	TYP = TYPICAL
H.S.B. = HIGH STRENGTH BOLTS	O.A.L. = OVERALL LENGTH	PL = PLATE
HT. = HEIGHT	O.C. = ON CENTER	
LLV = LONG LEG VERTICAL	U.N.O. = UNLESS NOTED OTHERWISE	

PEMB = PRE-ENGINEERED METAL BUILDING MANUFACTURER
?? = PART MARK TO BE DETERMINED AND WILL BE UPDATED ON CONSTRUCTION DRAWINGS

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE FOR ALL INSPECTIONS

AMERICAN BUILDINGS
a NUCOR brand
MBMA MEMBER
IAS ACCREDITED Metal Building Systems AC 472

BUILDING LOADS

DESIGN CODE: IBC 18
ROOF LIVE LOAD: 25.00 PSF MBMA OCC. CLASS: II
LIVE LOAD REDUCIBLE No
GROUND SNOW LOAD: 15.0 PSF SNOW EXP. FACTOR, Ce: 1.0000
SNOW IMPORTANCE FACTOR, Is: 1.00
100 YEAR RAINFALL INTENSITY (IN/HR): 4.00
WIND: 115 / 89 MPH (Vult) / (Vasd) ELEVATION: 3729 FT.
C & C PRESSURES (PSF): 16 / -22
EXPOSURE: B
UL 90 NO
R-Panel Roof-Const. No. **161** ; **R-Panel** Roof w/ Translucent Panel-Const. No. **167**
SS3 Roof-Const. No. **552** ; **SS3** Roof w/ Translucent Panel-Const. No. **590** ;
Composite CFR Roof-Const. No. **552A** ; **LS9** Roof-Const. No. **332** .
SEISMIC INFORMATION Ss: 0.194 S1: 0.082
Design Sds/Sd1: 0.207 / 0.131 Site Class: D
Seismic Imp. Factor: 1.00 Seismic Design Category: B
Analysis Procedure: Equivalent Lateral Force Method
Basic SFRS: Not Detailed for Seismic

NOTES:
1) COLLATERAL DEAD LOADS, UNLESS OTHERWISE NOTED, ARE ASSUMED TO BE UNIFORMLY DISTRIBUTED. WHEN SUSPENDED SPRINKLER SYSTEMS, LIGHTING, HVAC EQUIPMENT, CEILINGS, ETC., ARE SUSPENDED FROM ROOF MEMBERS, CONSULT THE M.B.S. IF THESE CONCENTRATED LOADS EXCEED 500 POUNDS (USING THE WEB MOUNT DETAIL) OR 200 POUNDS (USING THE FLANGE MOUNT DETAIL), OR IF INDIVIDUAL MEMBERS ARE LOADED SIGNIFICANTLY MORE THAN OTHERS.

2) THE DESIGN OF STRUCTURAL MEMBERS SUPPORTING GRAVITY LOADS IS CONTROLLED BY THE MORE CRITICAL EFFECT OF ROOF LIVE LOAD OR ROOF SNOW LOAD, AS DETERMINED BY THE APPLICABLE CODE.

3) Pm IS BASED ON THE MINIMUM ROOF SNOW LOAD CALCULATED PER BUILDING CODE OR THE CONTRACT SPECIFIED SNOW LOAD, WHICHEVER IS GREATER. THIS VALUE, Pm, IS ONLY APPLIED IN COMBINATION WITH THE DEAD AND COLLATERAL LOADS. ROOF SNOW IN OTHER LOADING CONDITIONS IS DETERMINED PER THE SPECIFIED BUILDING CODE.

	BUILDING		
ROOF DEAD (PSF):	3.50	ROOF SNOW Pm (PSF):	25.00
PRI. COL. (PSF):	5.00	WIND ENCLOSURE:	Closed
SEC. COL. (PSF):	5.00	GCpi:	+/-0.18
SNOW Ct:	1.20	SEISMIC R:	3
SNOW Cs:	1.00	SEISMIC Cs:	0.069
ROOF SNOW Ps (PSF):	12.60	BASE SHEAR (KIPS):	9.21

11/3/2022
I am approving this document

DRAWING INDEX

ISSUE	DWN	CHK	ENG	PE	DATE
ANCHOR BOLTS FOR CONST	MBS	CAY	MFM	MO	11/01/2022
FOR BUILD DEPT. REVIEW	MBS	CAY	MFM		11/03/2022

AMERICAN BUILDINGS a NUCOR brand
2260 TEMPA DRIVE
MODESTO, CA 95354
PHONE: (209) 236-0580
FAX: (209) 236-0588

PROJECT NAME: TF FIRE TRAINING-PO
430 VICTORY ROAD, TWIN FALLS, ID 83301
CUSTOMER NAME: STARR CORPORATION
TWIN FALLS, ID 83303
JOB NUMBER: N22J0683A
SHEET TITLE

PROFESSIONAL ENGINEER LICENSED 13897 STATE OF IDAHO MASAAKI ORIKURA 11/03/2022

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SHEET C1 of 2

STRUCTURAL OBSERVATIONS, TESTS, AND INSPECTION:

1) WHEN STRUCTURAL OBSERVATIONS ARE REQUIRED AS PER IBC 1704.6, OBSERVATIONS SHALL BE PERFORMED BY AN INDEPENDENT ENGINEERING AGENCY EMPLOYED BY THE ARCHITECT OR OWNER.
2) THE SPECIAL INSPECTOR'S DUTIES ARE AS DESCRIBED IN SPECIAL INSPECTION. THE SPECIAL INSPECTOR'S DUTIES ARE AS DESCRIBED IN IBC 1704.3 AND IBC 1705
3) ALL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AND INSPECTION AGENCY EMPLOYED BY THE OWNER OR ARCHITECT.
4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND INSPECTION FIRM WITH A SCHEDULE TO FACILITATE THE PROPER COORDINATION OF WORK.
5) PORTIONS OF WORK REQUIRING SPECIAL INSPECTION:

AGENCY RESPONSIBLE FOR INSPECTION AND TESTING TO BE NAMED BY OWNER LATER.

	YES	NO	N/A
A. STRUCTURAL STEEL:			
1. MILL REPORTS AND IDENTIFICATION OF STEEL (AFFIDAVIT OF COMPLIANCE)	☐	■	☐
2. SAMPLING AND TESTING OF SPECIMENS	☐	■	☐
B. WELDING:			
1. ALL STRUCTURAL WELDING (INCLUDES DECKING AND WELDED STUDS), EXCEPT WELDING IN APPROVED SHOPS PER IBC 1704.2.2	■	☐	☐
2. ULTRASONIC TESTING OF FULL PENETRATION WELD CONNECTIONS AT MOMENT FRAMES, BRACED FRAMES, BEAM SPLICES, AND FIELD WELDS.	☐	■	☐
3. STRUCTURAL LIGHT GAGE METAL FRAME WELDING	☐	■	☐
C. BOLTING:			
1. HIGH STRENGTH BOLT A325SC AND A490SC (PRETENSION VERIFICATION)	■	☐	☐
2. HIGH STRENGTH BOLT A325N AND A490X (PER COVER SHEET NOTES)	■	☐	☐
3. EXPANSION/ADHESIVE ANCHORS IN CONCRETE OR MASONRY	■	☐	☐

THIS BUILDING SYSTEM DESIGN IS BASED ON UNIFORMLY APPLYING THE CONTRACT-SPECIFIED LIVE LOAD AND ROOF SNOW LOAD. IN ADDITION, THE DESIGN IS BASED ON APPLYING A CODE-DEFINED LIVE LOAD (INCLUDING APPLICABLE REDUCTIONS) AND A CODE-DEFINED SNOW LOAD (BASED ON CONTRACT-SPECIFIED GROUND SNOW) FOR ALL PARTIAL LOADING AND UNBALANCED SNOW LOAD CONDITIONS.

FOR OCCUPANCY (RISK) CATEGORY I OR II, IBC PROVISIONS INDICATE THAT SINGLE-STORY BUILDINGS SHALL HAVE "NO DRIFT LIMIT" PROVIDED THAT INTERIOR WALLS, PARTITIONS, CEILINGS, AND EXTERIOR WALL SYSTEMS HAVE BEEN DESIGNED TO ACCOMMODATE THE SEISMIC STORY DRIFTS. INTERIOR WALLS, PARTITIONS, CEILINGS, OR EXTERIOR WALL SYSTEMS NOT PROVIDED BY THE METAL BUILDING MANUFACTURER SHALL BE DESIGNED AND DETAILED BY OTHERS TO ACCOMMODATE THE SEISMIC STORY DRIFTS. SEISMIC DRIFT VALUES MAY BE OBTAINED FROM THE METAL BUILDING MANUFACTURER.

IF SNOW GUARDS OR OTHER DEVICES INTENDED TO HOLD SNOW AND/OR ICE ACCUMULATION ON THE ROOF SYSTEM ARE TO BE USED ON THIS PROJECT, THEY MUST BE INSTALLED UNDER THE GUIDANCE OF THE PROJECT "ENGINEER OF RECORD" (EOR), NOT THE METAL BUILDING MANUFACTURER, SO AS NOT TO EXCEED THE DESIGN ROOF SNOW LOAD ON THIS PROJECT.

ACCESSORIES (DOORS, WINDOWS, ETC.) NOT PROVIDED BY THE METAL BUILDING MANUFACTURER MUST BE DESIGNED AS "COMPONENTS AND CLADDING" IN ACCORDANCE WITH THE SPECIFIC WIND PROVISIONS OF THE REFERENCED BUILDING CODE DISPLAYED ON THE COVER PAGE OF THIS DRAWING PACKET.

FRAMED OPENINGS HAVE BEEN DESIGNED TO SUPPORT WIND LOAD NORMAL TO THE WALL BASED ON THE STANDARD BUILDING CODE CRITERIA. FRAMED OPENINGS HAVE NOT BEEN DESIGNED FOR ANY ADDITIONAL MOMENT OR CATENARY FORCES FROM THE DOOR. ANY CHANGE TO THE INFORMATION SHOWN HERE WILL REQUIRE AN ENGINEERING INVESTIGATION AND POSSIBLE BUILDING REINFORCEMENT.

CITY APPROVED PLANS
Reviewed for Code Compliance
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ISSUE	DWN	CHK	ENG	PE	DATE
ANCHOR BOLTS FOR CONST	MBS	CAY	MFM	MO	11/01/2022
FOR BUILD DEPT. REVIEW	MBS	CAY	MFM		11/03/2022

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PROJECT NAME
TF FIRE TRAINING-PO
430 VICTORY ROAD, TWIN FALLS, ID 83301

CUSTOMER NAME
STARR CORPORATION
TWIN FALLS, ID 83303

JOB NUMBER
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SHEET TITLE

PROFESSIONAL ENGINEER LICENSED 13897 STATE OF IDAHO MASAAKI ORIKURA
11/03/2022

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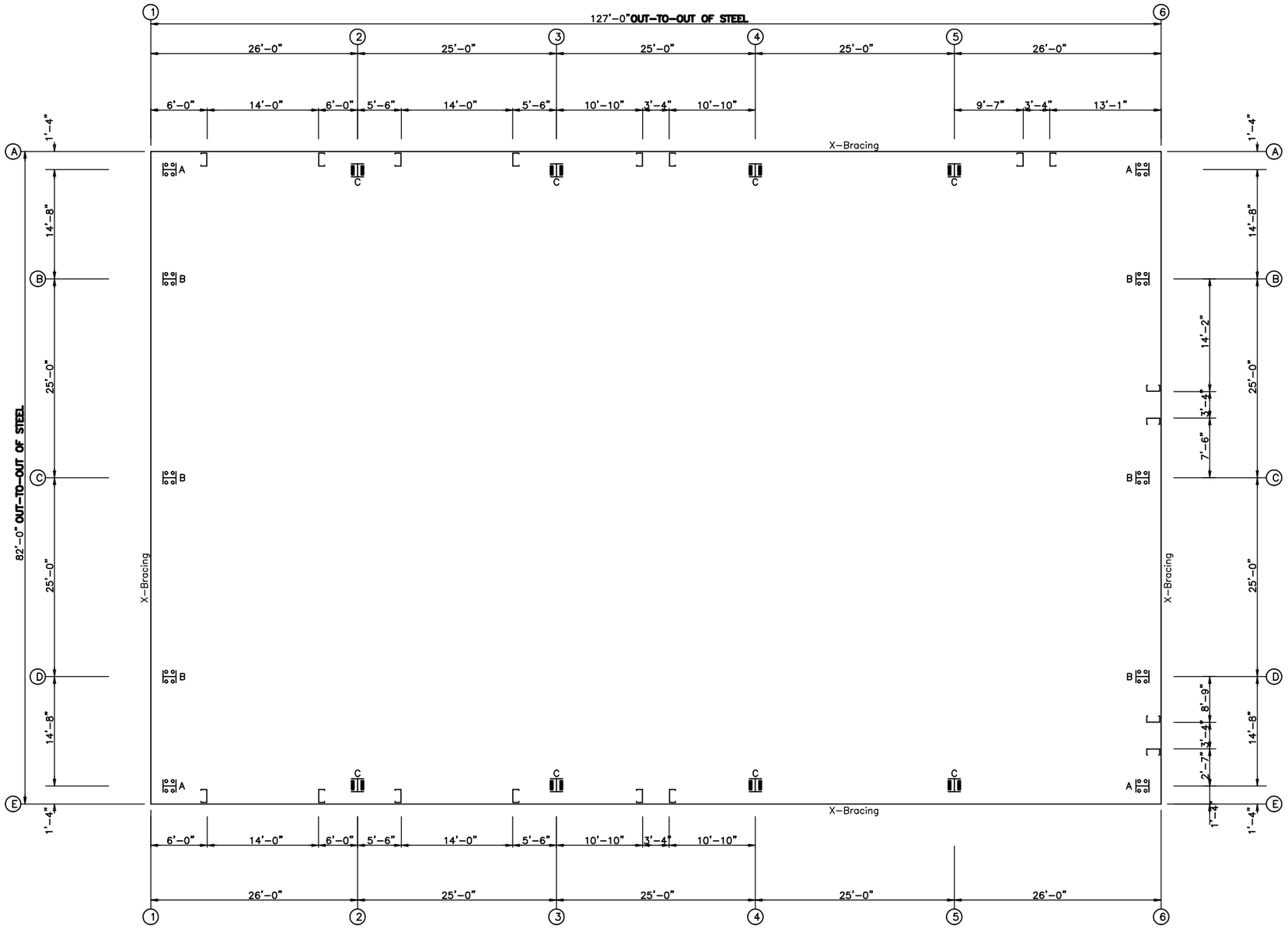

ANCHOR BOLT PLAN
NOTE: All Base Plates @ 100'-0" (U.N.)

○ Dia= 3/4"
⊠ Dia=1"

ANCHOR BOLT SUMMARY					
	Qty	Locate	Dia (in)	Type	Proj (in)
○	40	Endwall	3/4"	F1554	3.00
⊠	48	Frame	1"	F1554	3.00

ANCHOR BOLT PLAN

GENERAL NOTES

1. THE SPECIFIED ANCHOR ROD DIAMETER ASSUMES F1554 GRADE 36 UNLESS NOTED OTHERWISE. ANCHOR ROD MATERIAL OF EQUAL DIAMETER MEETING OR EXCEEDING THE STRENGTH REQUIREMENTS SET FORTH ON THESE DRAWINGS MAY BE UTILIZED AT THE DISCRETION OF THE FOUNDATION DESIGN ENGINEER. ANCHOR ROD EMBED-MENT LENGTH SHALL BE DETERMINED BY THE FOUNDATION DESIGN ENGINEER.
2. METAL BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR PROJECT FOUNDATION DESIGN. THE FOUNDATION DESIGN IS THE RESPONSIBILITY OF A REGISTERED PROFESSIONAL ENGINEER, FAMILIAR WITH LOCAL SITE CONDITIONS.
3. ANCHOR RODS, NUTS, FLAT WASHERS FOR ANCHOR RODS, EXPANSION BOLTS, AND CONCRETE/MASONRY EMBEDMENT PLATES ARE NOT BY METAL BUILDING MANUFACTURER.
4. THE ANCHOR ROD LOCATIONS PROVIDED BY METAL BUILDING MANUFACTURER SATISFY PERTINENT REQUIREMENTS FOR THE DESIGN OF THE MATERIALS SUPPLIED BY THE METAL BUILDING MANUFACTURER. IT IS THE RESPONSIBILITY OF THE FOUNDATION ENGINEER TO MAKE CERTAIN THAT SUFFICIENT EDGE DISTANCE IS PROVIDED FOR ALL ANCHOR RODS IN THE DETAILS OF THE FOUNDATION DESIGN.
5. DRAWINGS ARE NOT TO SCALE. SEE DETAILS FOR COLUMN ORIENTATION.
6. THE ANCHOR ROD PLAN INDICATES WHERE THE ANCHOR RODS ARE TO BE PLACED AS WELL AS THE FOOTPRINT OF THE METAL BUILDING. IT IS ESSENTIAL THAT THESE ANCHOR ROD PATTERNS BE FOLLOWED. IF THESE SETTINGS DIFFER FROM THE ARCHITECTURAL FOUNDATION PLANS, THE METAL BUILDING MANUFACTURER MUST BE CONTACTED IMMEDIATELY – BEFORE CONCRETE IS PLACED.
7. "SINGLE" CEE COLUMNS SHALL BE ORIENTED WITH THE "TOES" TOWARD THE LOW EAVE UNLESS NOTED OTHERWISE.
8. ALL DIMENSIONS ARE OUT TO OUT OF STEEL. IF CONCRETE NOTCH IS REQUIRED THEN THE REQUIRED DIMENSION SHOULD BE ADDED TO OBTAIN THE OUT TO OUT OF CONTRETE DIMENSIONS.
9. FINISHED FLOOR ELEVATION = 100'-0" BOTTOM OF BASE PLATE = 100'-0" UNLESS NOTED OTHERWISE.

CITY APPROVED PLANS
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ISSUE	DWN	CHK	ENG	PE	DATE
ANCHOR BOLTS FOR CONST	MBS	CAY	MFM	MO	11/01/2022
FOR BUILD DEPT. REVIEW	MBS	CAY	MFM		11/03/2022

NUCOR BUILDINGS GROUP
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PROJECT NAME
TF FIRE TRAINING-PO
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SHEET
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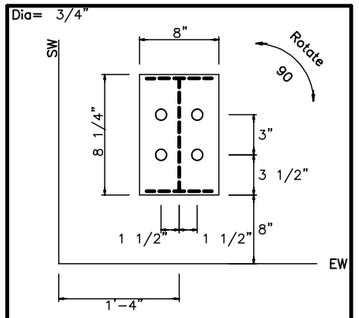
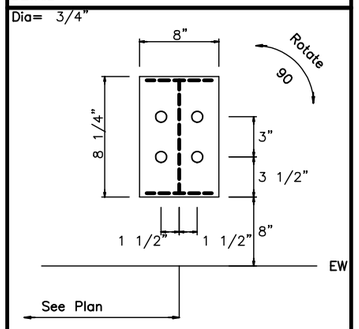
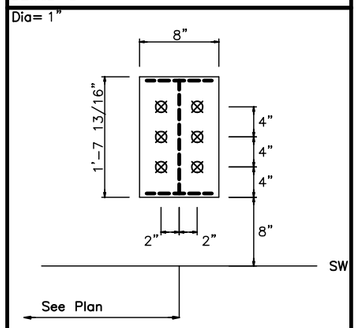


DETAIL A

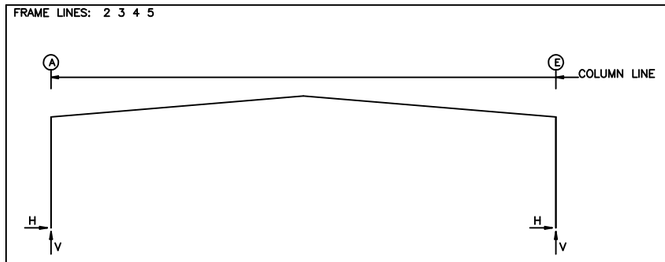


DETAIL B



DETAIL C

FRAME LINES: 2 3 4 5



RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc. Bolt Qty	Bolt Dia	Base Plate (in) Width	Length	Thick	Elev. (in)
2*	A	6	1.000	8.000	19.81	0.625	0.0
2*	E	6	1.000	8.000	19.81	0.625	0.0

2* Frame lines: 2 3 4 5

ENDWALL COLUMN: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc. Bolt Qty	Bolt Dia	Base Plate (in) Width	Length	Thick	Elev. (in)
1	A	4	0.750	8.000	8.250	0.375	0.0
1	B	4	0.750	8.000	8.250	0.375	0.0
1	C	4	0.750	8.000	8.250	0.375	0.0
1	D	4	0.750	8.000	8.250	0.375	0.0
1	E	4	0.750	8.000	8.250	0.375	0.0
6	E	4	0.750	8.000	8.250	0.375	0.0
6	D	4	0.750	8.000	8.250	0.375	0.0
6	C	4	0.750	8.000	8.250	0.375	0.0
6	B	4	0.750	8.000	8.250	0.375	0.0
6	A	4	0.750	8.000	8.250	0.375	0.0

GENERAL NOTES

1. ALL LOADING CONDITIONS ARE EXAMINED. THE MAXIMUM AND MINIMUM HORIZONTAL (H) AND VERTICAL (V) REACTIONS AND THE CORRESPONDING VERTICAL (V) OR HORIZONTAL (H) REACTIONS ARE REPORTED.
2. REACTIONS ARE PROVIDED BY LOAD CASE IN ORDER TO AID THE FOUNDATION ENGINEER IN DETERMINING THE APPROPRIATE LOAD FACTORS AND COMBINATIONS TO BE USED WTIH EITHER WORKING STRESS OR ULTIMATE STRENGTH DESIGN METHODS. WIND LOAD CASES ARE GIVEN FOR EACH PRIMARY WIND DIRECTION.
3. FOR ASCE7-10 AND LATER BASED BUILDING CODES, THE UNFACTORED LOAD CASE REACTIONS DUE TO WIND ARE GENERATED USING THE ULTIMATE DESIGN WIND SPEED (Vult).
4. POSITIVE (+) REACTIONS ARE AS SHOWN ABOVE. FOUNDATION LOADS ARE IN OPPOSITE DIRECTIONS.
5. BRACING REACTIONS ARE IN THE PLANE OF THE BRACE WITH THE HORIZONTAL REACTION (H) ACTING AWAY FROM THE BRACED BAY AND THE VERTICAL REACTION (V) ACTING DOWNWARD.

****** RIGID FRAME LOAD CASE ABBREVIATIONS: ******
Wind_L1/Wind_R1: LATERAL WIND FROM THE LEFT/RIGHT, CASE 1
Wind_L2/Wind_R2: LATERAL WIND FROM THE LEFT/RIGHT, CASE 2
Wind_Ln1/Wind_Ln2: LONGITUDINAL WIND, CASE 1/2
Seismic_L/Seismic_R: LATERAL SEISMIC LOAD FROM LEFT/RIGHT
LWIND#_L#E/LWIND#_R#E: LONGITUDINAL WIND EDGE ZONES
F#UNB_SL_L/F#UNB_SL_R: UNBALANCED ROOF SNOW WITH WIND FROM LEFT/RIGHT
F#PAT_LL #/F#PAT_SL #: PARTIAL LIVE/SNOW LOADING FOR CONTINUOUS BEAM SYSTEMS

****** ENDWALL COLUMN LOAD CASE ABBREVIATIONS: ******
Collat: COLLATERAL LOAD
Rafter Wind_L/Rafter Wind_R: LATERAL WIND FROM THE LEFT/RIGHT
Brace Wind_L/Brace Wind_R: LATERAL WIND FROM THE LEFT/RIGHT
Wind_P/Wind_S: LONGITUDINAL WIND PRESSURE/SUCTION ON COLUMNS
Wind_Ln: LONGITUDINAL WIND SUCTION ON ROOF
Seis_L/Seis_R: LATERAL SEISMIC LOAD FROM LEFT/RIGHT
E#UNB_SL_L/E#UNB_SL_R: UNBALANCED ROOF SNOW WITH WIND FROM LEFT/RIGHT
E#PAT_LL #/E#PAT_SL #: PARTIAL LIVE/SNOW LOADING FOR CONTINUOUS BEAM SYSTEMS

FOUNDATION DESIGN NOTES:

1. THE ORIENTATION OF THE ANCHOR BOLT DETAILS SHOWN ON THIS PAGE MAY NOT COINCIDE WITH THE ACTUAL COLUMN ORIENTATION SHOWN ON THE ANCHOR BOLT DRAWING. PLEASE REFERENCE THE SIDEWALL (SW) AND ENDWALL (EW) STEEL LINES SHOWN ON THE ANCHOR BOLT DETAILS WITH THE ANCHOR BOLT PLAN DURING LAYOUT OF COLUMN AND ANCHOR BOLT LOCATIONS.
2. COLUMN BASE PLATES MAY HAVE MORE HOLES THAN ARE REQUIRED DUE TO PRODUCTION LIMITATIONS. PLEASE FOLLOW ANCHOR BOLT DETAILS FOR QUANTITY OF ANCHOR BOLTS REQUIRED. EXTRA BASE PLATE HOLES DO NOT NEED INFILLED PER THE MBS DESIGN SPECIFICATIONS.

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert
2*	A	3.9	5.7	4.3	5.5	21.3	27.4	10.7	13.8	-14.0	-16.2	-5.5	-11.2
2*	E	-3.9	5.7	-4.3	5.5	-21.3	27.4	-10.7	13.8	5.5	-11.2	14.0	-16.2

Frame Line	Column Line	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert
2*	A	-11.0	-9.3	-2.5	-4.2	-7.7	-15.2	-8.2	-12.2	-1.0	-0.4	1.0	0.4
2*	E	2.5	-4.2	11.0	-9.3	8.2	-12.2	7.7	-15.2	-1.0	0.4	1.0	-0.4

Frame Line	Column Line	MIN_SNOW Horiz	MIN_SNOW Vert	F1UNB_SL_L Horiz	F1UNB_SL_L Vert	F1UNB_SL_R Horiz	F1UNB_SL_R Vert
2*	A	21.3	27.4	9.1	13.7	9.1	8.0
2*	E	-21.3	27.4	-9.1	8.0	-9.1	13.7

2* Frame lines: 2 3 4 5

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind Left1 Vert	Wind Right1 Vert	Wind Left2 Vert	Wind Right2 Vert	Wind Press Horz	Wind Suct Horz	Wind Long1 Vert	Wind Long2 Vert
1	A	0.5	0.3	1.6	0.8	-1.0	-0.8	-0.6	-0.3	-1.2	1.3	-1.2	-0.7
1	B	2.0	1.9	9.4	4.7	-6.7	-3.9	-4.6	-1.8	-3.0	3.3	-6.7	-3.9
1	C	1.6	1.5	7.2	3.6	-4.1	-3.9	-2.7	-2.5	-4.2	4.5	-3.7	-3.8
1	D	2.0	1.9	9.4	4.7	-3.7	-6.7	-1.6	-4.6	-3.0	3.3	-3.9	-6.6
1	E	0.5	0.3	1.6	0.8	-0.8	-1.0	-0.3	-0.6	-1.2	1.3	-0.7	-1.2

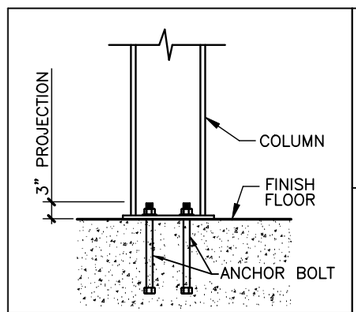
Frm Line	Col Line	Seis Left Vert	Seis Right Vert	MIN_SNOW Horz	MIN_SNOW Vert	E1UNB_SL_L Horz	E1UNB_SL_L Vert	E1UNB_SL_R Horz	E1UNB_SL_R Vert
1	A	0.0	0.0	0.0	1.6	0.0	0.5	0.0	0.2
1	B	0.0	0.0	0.0	9.4	0.0	5.8	0.0	1.4
1	C	-0.1	0.0	0.0	7.2	0.0	3.5	0.0	3.5
1	D	0.1	0.0	0.0	9.4	0.0	1.4	0.0	5.8
1	E	0.0	0.0	0.0	1.6	0.0	0.2	0.0	0.5

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind Left1 Vert	Wind Right1 Vert	Wind Left2 Vert	Wind Right2 Vert	Wind Press Horz	Wind Suct Horz	Wind Long1 Vert	Wind Long2 Vert
6	E	0.5	0.3	1.6	0.8	-1.0	-0.8	-0.6	-0.3	-1.2	1.3	-1.2	-0.7
6	D	2.0	1.9	9.4	4.7	-6.7	-3.7	-4.6	-1.6	-3.0	3.3	-6.6	-3.9
6	C	1.6	1.5	7.2	3.6	-3.9	-4.1	-2.5	-2.7	-4.2	4.5	-3.8	-3.7
6	B	2.0	1.9	9.4	4.7	-3.9	-6.7	-1.8	-4.6	-3.0	3.3	-3.9	-6.7
6	A	0.5	0.3	1.6	0.8	-0.8	-1.0	-0.3	-0.6	-1.2	1.3	-0.7	-1.2

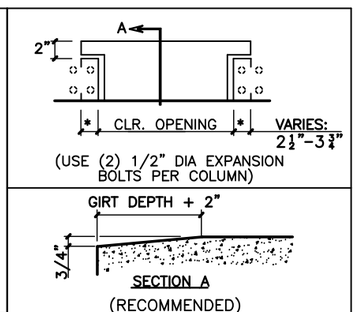
Frm Line	Col Line	Seis Left Vert	Seis Right Vert	MIN_SNOW Horz	MIN_SNOW Vert	E2UNB_SL_L Horz	E2UNB_SL_L Vert	E2UNB_SL_R Horz	E2UNB_SL_R Vert
6	E	0.0	0.0	0.0	1.6	0.0	0.5	0.0	0.2
6	D	0.0	0.1	0.0	9.4	0.0	5.8	0.0	1.4
6	C	0.0	-0.1	0.0	7.2	0.0	3.5	0.0	3.5
6	B	0.0	0.0	0.0	9.4	0.0	1.4	0.0	5.8
6	A	0.0	0.0	0.0	1.6	0.0	0.2	0.0	0.5

BUILDING BRACING REACTIONS

Wall Loc	Wall Line	Col Line	± Reactions(k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel_Shear (lb/ft) Wind	Seis
L_EW	1	C,D	2.4	1.9	1.2	0.9		
F_SW	E	4,5	7.0	4.5	4.8	3.1		
R_EW	6	D,C	2.4	1.9	1.2	0.9		
B_SW	A	5,4	7.0	4.5	4.8	3.1		



TYPICAL COLUMN BASE PLATE DETAIL



(RECOMMENDED)
TYPICAL OVERHEAD DOOR FRAMED OPENING

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE FOR ALL INSPECTIONS

ISSUE	DWN	CHK	ENG	PE	DATE
ANCHOR BOLTS FOR CONST	MBS	CAY	MFM	MO	11/01/2022
FOR BUILD DEPT. REVIEW	MBS	CAY	MFM		11/03/2022

AMERICAN BUILDINGS a NUCOR brand
2260 TEMAYA DRIVE
MODESTO, CA 95354
PHONE: (209) 236-0580
FAX: (209) 236-0688

PROJECT NAME: TF FIRE TRAINING-PO
430 VICTORY ROAD, TWIN FALLS, ID 83301
CUSTOMER NAME: STARR CORPORATION
TWIN FALLS, ID 83303
JOB NUMBER: N22J0683A
SHEET TITLE

PROFESSIONAL ENGINEER LICENSED 13897 STATE OF IDAHO MASAAKI ORIKURA 11/03/2022

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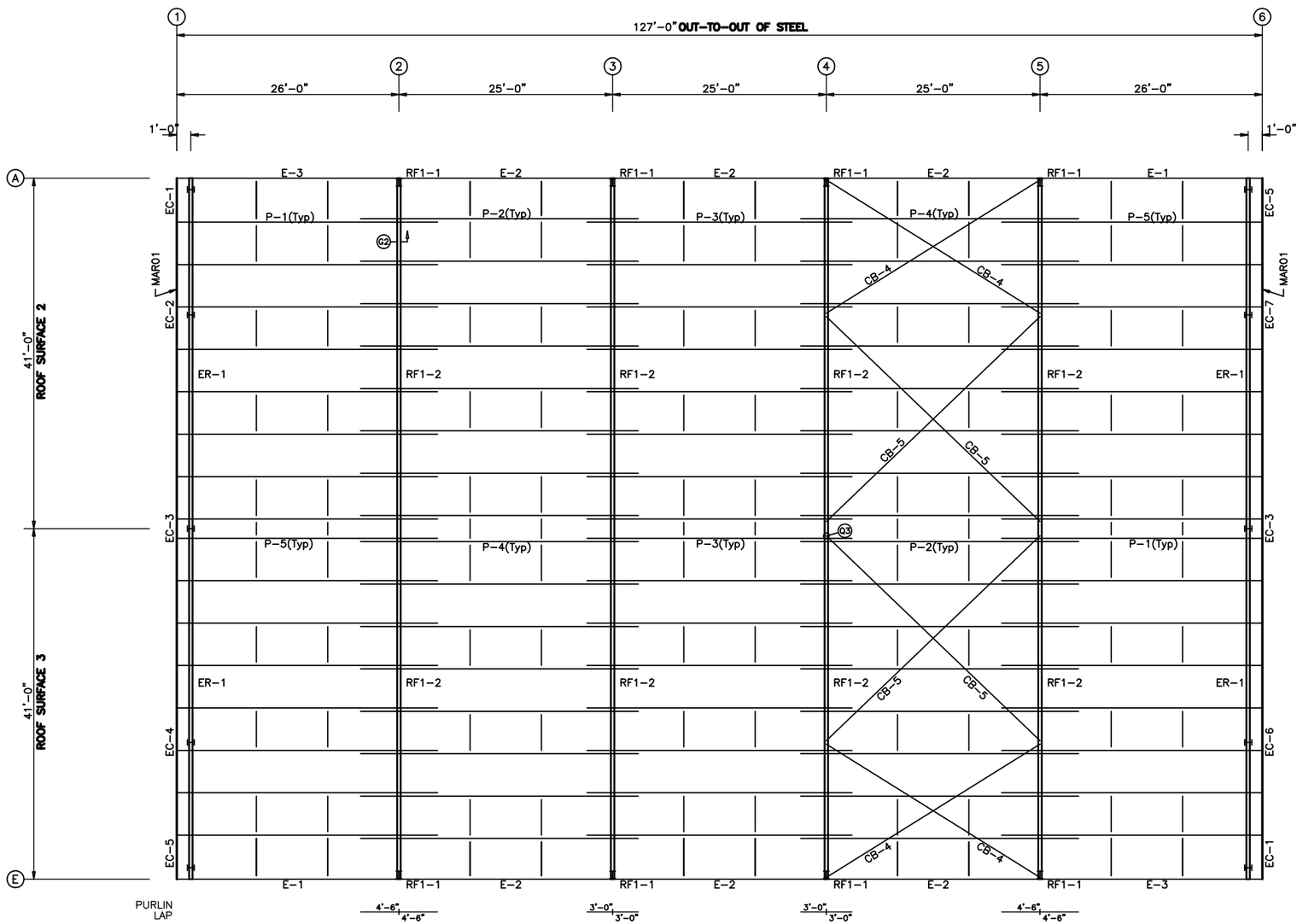
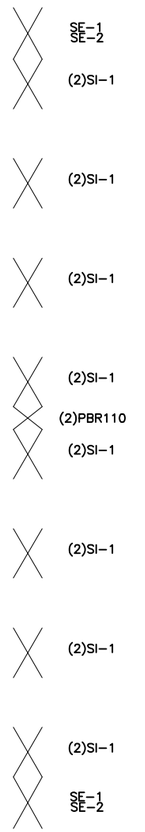
SHEET F2 of 2



ROOF FRAMING PLAN



PURLIN BRACING

(2) ROWS PER BAY
SEE D- FOR SPACING

MEMBER TABLE ROOF PLAN		
MARK	PART	LENGTH
P-1	95Z089	365.750
P-2	95Z060	390.000
P-3	95Z060	372.000
P-4	95Z060	390.000
P-5	95Z089	365.750
E-1	95E075	311.625
E-2	95E075	299.750
E-3	95E075	311.625
CB-4	RD05-	352.000
CB-5	RD05-	421.000
PBR110	PBR110	34.188
SI-1	PBX-6244	62.437
SE-1	PBX-6256	62.562
SE-2	PBX-6306	63.062

ROOF FRAMING PLAN

GENERAL NOTES

1. PLACE TAGGED END OF RAFTERS TOWARDS THE LOW EAVE.
2. STD. ROD/CABLE SIZES PER PART PREFIX ARE:

ROD		CABLE	
RD05-	= 5/8" ROD	CA02-	= 1/4" CABLE
RD06-	= 3/4" ROD	CA03-	= 3/8" CABLE
RD07-	= 7/8" ROD	CA04-	= 1/2" CABLE
RD08-	= 1" ROD		
RD09-	= 1 1/8" ROD		
RD10-	= 1 1/4" ROD		

3. PURLIN AND EAVE STRUT CONNECTIONS UTILIZE BOTH A307 AND A325 BOLTS. REFER TO THE DETAILS FOR SPECIFIC USAGE REQUIREMENTS.
4. THIS DRAWING IS NOT TO SCALE.

CITY APPROVED PLANS
Reviewed for Code Compliance
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ANCHOR BOLTS FOR CONST	MBS	CAY	MFM	MO	11/01/2022
FOR BUILD DEPT. REVIEW	MBS	CAY	MFM		11/03/2022

NUCOR AMERICAN BUILDINGS a brand
2260 TEMAYA DRIVE
MODESTO, CA 95354
PHONE: (209) 236-0580
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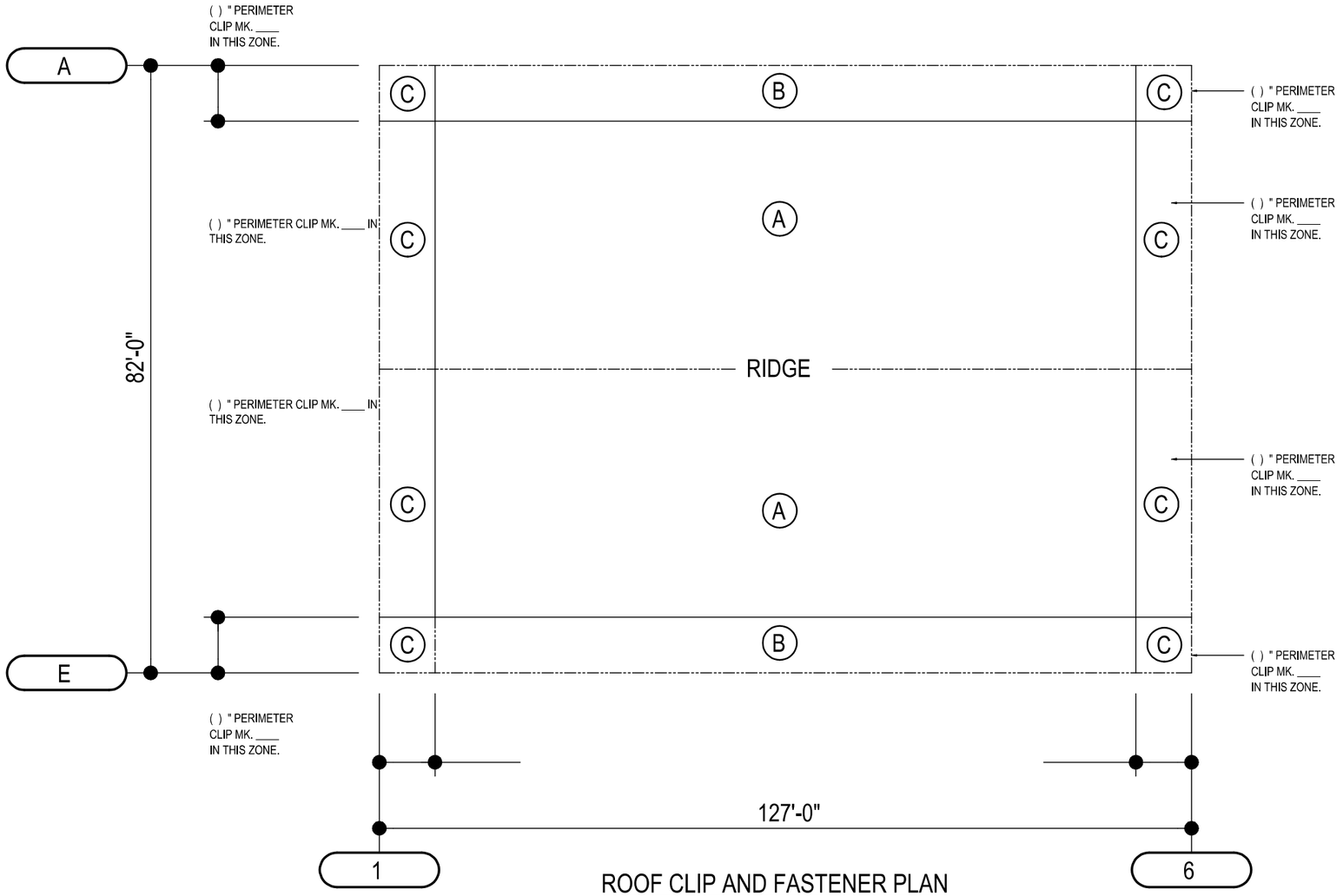
SHEET: E1 of 8



ROOF CLIP AND FASTENER PLAN

STANDARD CLIPS	
PART #	PART DESCRIPTION
S3PC-1	SHORT CLIP
S3PC-1R	SHORT CLIP - REINFORCED
S3PC-2T	TALL CLIP
S3PC-2TR	TALL CLIP - REINFORCED
S3PC-5T	SUPER TALL CLIP

PERIMETER CLIPS	
PART #	PART DESCRIPTION
S3PC-1P	12" SHORT CLIP
S3PC-2TP	12" TALL CLIP

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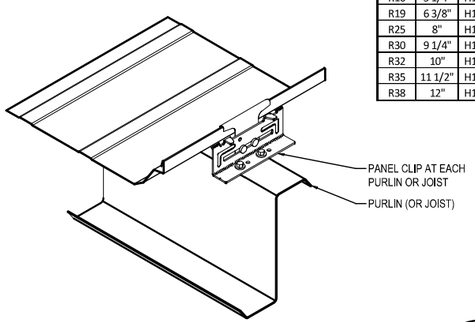
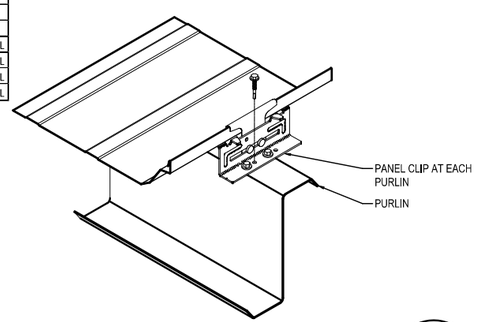
STANDARD CLIP

INSULATION		FASTENER		
R_	THICK	PURLIN	JOIST	CLIP
NONE	0"	H1020	H1070	ALL
R7	2"	H1020	H1070	SHORT
R10	3 3/8"	H1020	H1070	SHORT
R11	3 3/4"	H1020	H1070	SHORT
R13	4 3/8"	H1020	H1070	SHORT/TALL
R16	5 1/4"	H1020	H1070	TALL
R19	6 3/8"	H1020	H1070	TALL
R25	8"	H1025	H1075	TALL
R30	9 1/4"	H1025	H1075	SUPER TALL
R32	10"	H1025	H1075	SUPER TALL
R35	11 1/2"	H1025	H1075	SUPER TALL
R38	12"	H1025	H1075	SUPER TALL



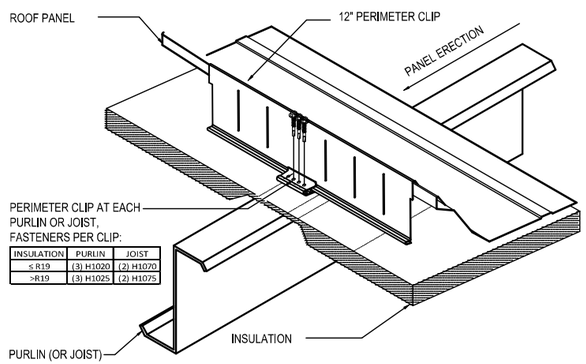
(2) FASTENERS PER CLIP AT PURLIN/JOIST — A

STANDARD CLIP



(3) FASTENERS PER CLIP AT PURLIN — B

PERIMETER CLIP



(3) FASTENERS PER CLIP AT PURLIN
(2) FASTENERS PER CLIP AT JOIST — C

CRITICAL SEAMER ORDERING INFORMATION

ROOF TYPE	SS3
PANEL GAUGE	24 GA.
SQUARE FOOTAGE (ENTIRE ROOF)	10414 SQ. FT
ROOF PITCH	1 :12
SEAM HEIGHT	3"
ENDLAPS	☐ YES ☒ NO
GALVALUME OR PAINTED ROOF	☐ GALVALUME ☒ PAINTED
PERIMETER CLIPS REQUIRED	☐ YES ☒ NO

PLEASE NOTE THAT ALL SEAMER ORDERS WILL TAKE APPROXIMATELY 5-7 WORKING DAYS FOR DELIVERY TO JOB SITE FROM DATE OF ORDER.

DIROOFSEAMERS.COM
PHONE (888) 343-0456

ISSUE	DWN	CHK	ENG	PE	DATE
ANCHOR BOLTS FOR CONST	MBS	CAY	MFM	MO	11/01/2022
FOR BUILD DEPT. REVIEW	MBS	CAY	MFM		11/03/2022

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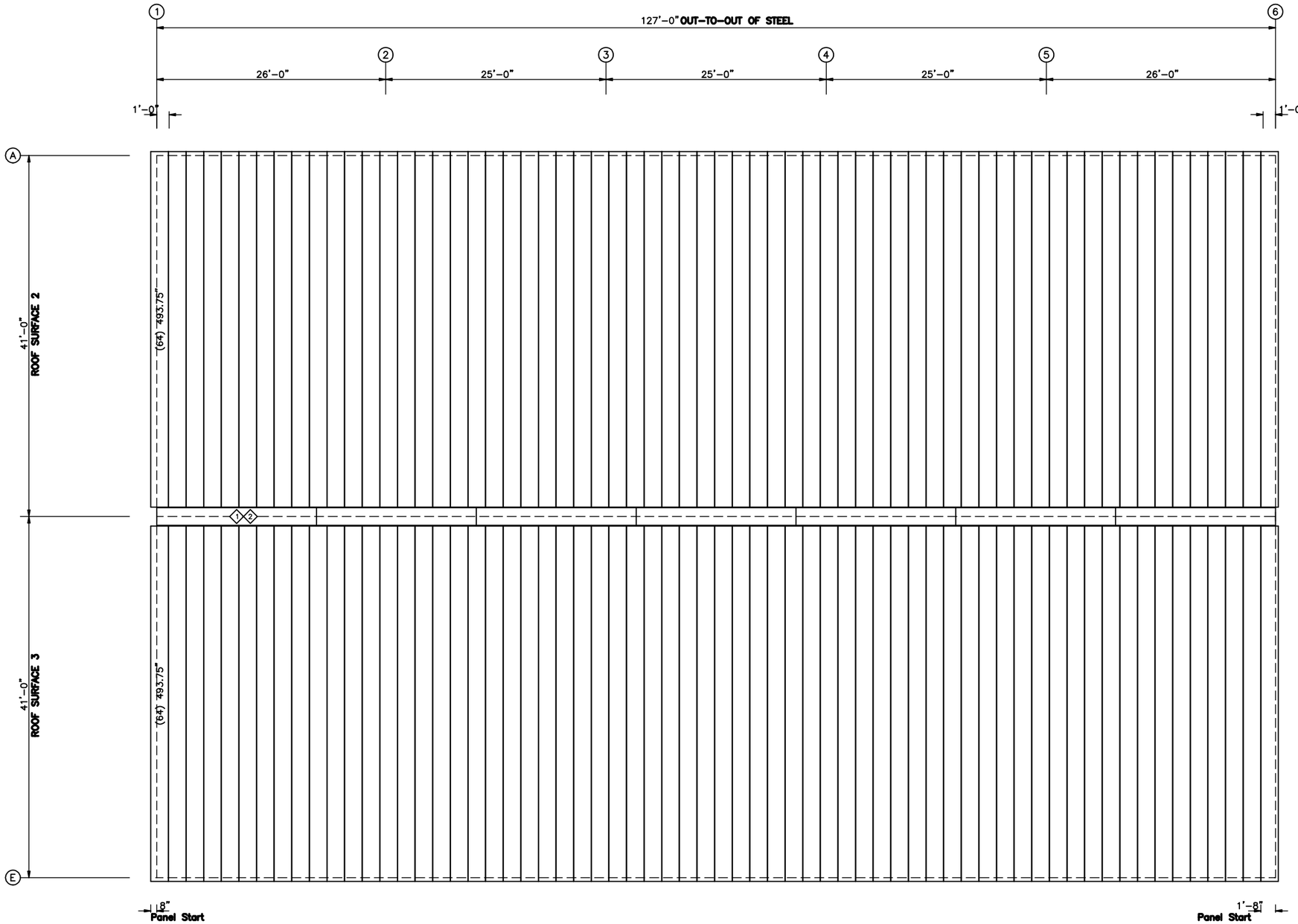
SHEET E2 of 8

EA6016

TRIM TABLE ROOF PLAN			
◇ID	PART	LENGTH	DETAIL
1	RTP2121	121.000	TRIM_444
2	RTP2242	242.000	TRIM_444



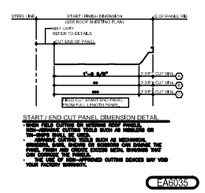
ROOF SHEETING PLAN

PANELS: 24 Ga. SS3 – Galvalume Plus

CITY APPROVED PLANS

Reviewed for Code Compliance

PLANS MUST BE ON JOB SITE FOR ALL INSPECTIONS



EARNS5

ISSUE	DWN	CHK	ENG	PE	DATE
ANCHOR BOLTS FOR CONST	MBS	CAY	MFM	MO	11/01/2022
FOR BUILD DEPT. REVIEW	MBS	CAY	MFM		11/03/2022

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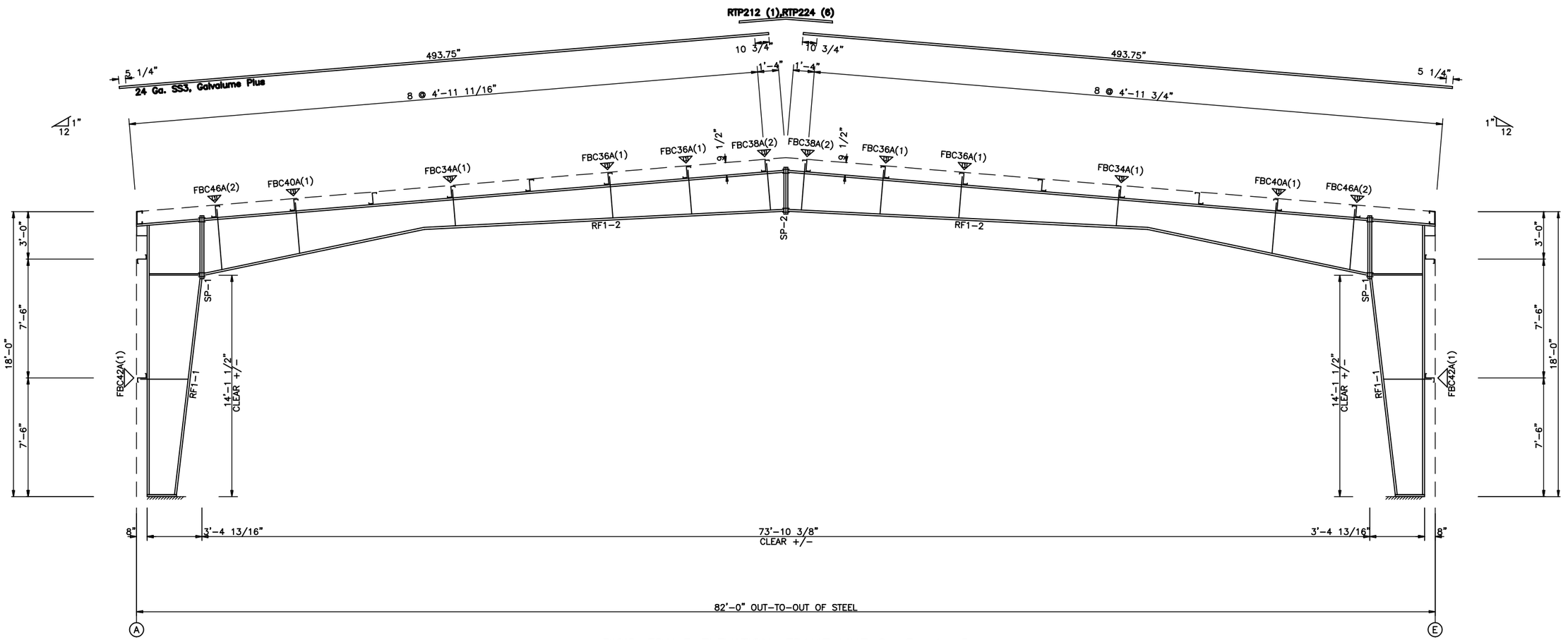
SHEET
E3 of 8

SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP–1	4	4	0	A325	0.875	3.00	8"	3/4"	4'–0"
SP–2	4	4	0	A325	0.625	2.25	6"	5/8"	2'–10 3/8"

MEMBER TABLE					
Mark	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF1–1	19.0/40.0	0.164	165.3	8 x 5/16" x 206.0	8 x 1/2" x 166.6
	40.0/40.0	0.313	44.1	8 x 1/2" x 48.2	
RF1–2	40.0/19.0	0.188	170.2	6 x 3/8" x 443.1	6 x 1/2" x 171.4
	19.0/28.0	0.150	276.2		6 x 1/4" x 274.0

CONNECTION PLATES	
☐ ID	Mark/Part
1	FBL&N01



RIGID FRAME ELEVATION: FRAME LINE 2 3 4 5

GENERAL NOTES

1. ▽ INDICATES FLANGE BRACING LOCATIONS. (1) = ONE SIDE; (2) = TWO SIDES.
2. IF FLANGE BRACING IS REQUIRED ON BOTH SIDES OF AN EXPANDABLE RIGID FRAME, THE OPPOSITE SIDE FLANGE BRACES WILL HAVE TO BE INSTALLED AT THE TIME OF FUTURE EXPANSION. THESE FLANGE BRACES HAVE BEEN PROVIDED, AS REQUIRED, FOR THIS FUTURE CONDITION.
3. RIGID FRAMES SHALL HAVE 50% OF THEIR BOLTS INSTALLED AND TIGHTENED ON BOTH SIDES OF THE WEB ADJACENT TO EACH FLANGE BEFORE THE HOISTING EQUIPMENT IS RELEASED.
4. INTERIOR COLUMN METAL TAG IS ORIENTED TOWARD THE LOW EAVE OF THE BUILDING.

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE
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ISSUE	DWN	CHK	ENG	PE	DATE
ANCHOR BOLTS FOR CONST	MBS	CAY	MFM	MO	11/01/2022
FOR BUILD DEPT. REVIEW	MBS	CAY	MFM		11/03/2022

NUCOR AMERICAN BUILDINGS a brand
2260 TEMAYA DRIVE
MODESTO, CA 95354
PHONE: (209) 236-0580
FAX: (209) 236-0588

PROJECT NAME
TF FIRE TRAINING-PO
430 VICTORY ROAD, TWIN FALLS, ID 83301

CUSTOMER NAME
STARR CORPORATION
TWIN FALLS, ID 83303

JOB NUMBER
N22J0683A

SHEET TITLE

PROFESSIONAL ENGINEER LICENSED 13897 STATE OF IDAHO MASAAKI ORIKURA
11/03/2022

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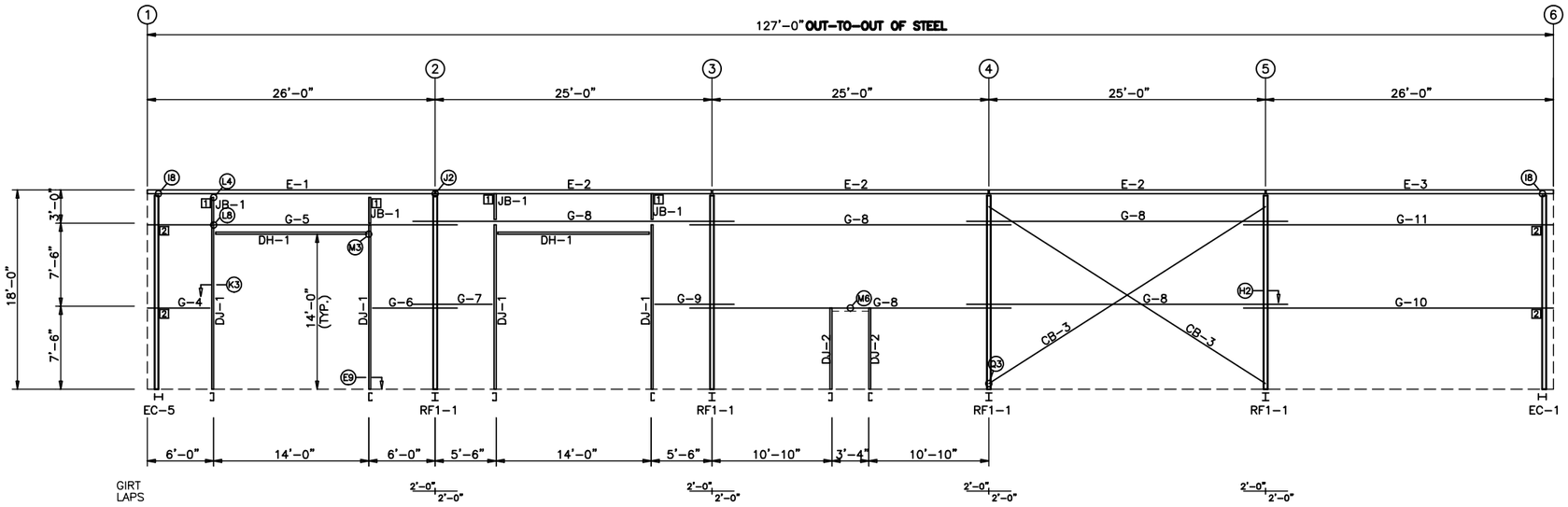
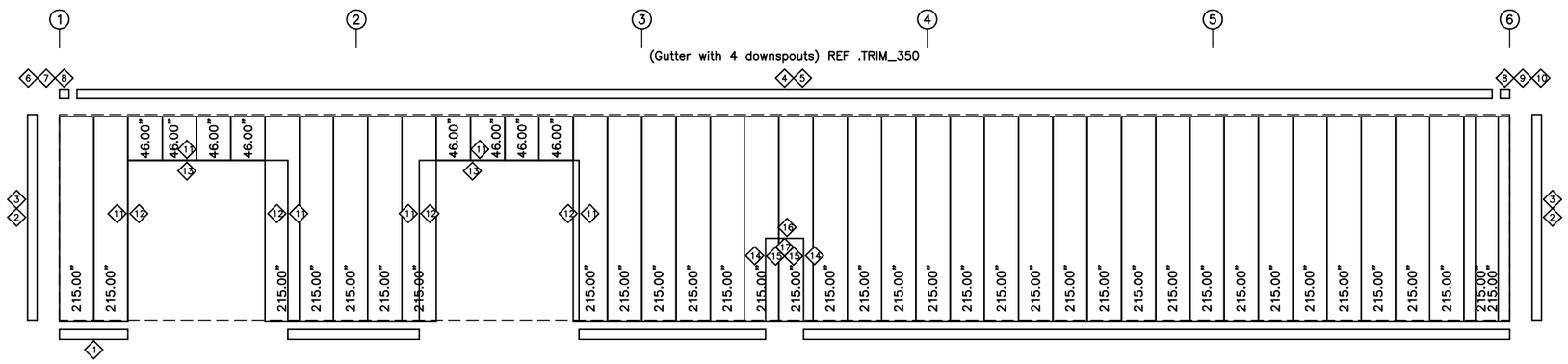
SHEET
E4 of 8



SIDEWALL FRAMING: FRAME LINE E



SIDEWALL SHEETING & TRIM: FRAME LINE E

PANELS: 26 Ga. RPW – Pearl Gray PVDF

TRIM TABLE FRAME LINE E			
◇ID	PART	LENGTH	DETAIL
1	BSA242	242.000	TRIM_364
2	COB242	242.000	TRIM_353
3	MFR121	121.000	TRIM_353
4	GSA121	121.000	TRIM_452
5	GSA242	242.000	TRIM_452
6	H4000AL	10.120	
7	RSCL	9.250	
8	RSCE	9.250	
9	H4000AR	10.120	
10	RSCR	9.250	
11	CC8169	169.000	TRIM_375
12	JTA169	169.000	TRIM_373
13	HTA172	172.000	TRIM_373
14	CC8121	121.000	TRIM_375
15	JTA087	87.000	TRIM_373
16	CW8040	40.000	TRIM_375
17	HTA044	44.000	TRIM_373

MEMBER TABLE FRAME LINE E		
MARK	PART	LENGTH
DJ-1	J08C060	180.000
DJ-2	J08C060	90.000
DH-1	J08C060	168.000
E-1	95E075	311.625
E-2	95E075	299.750
E-3	95E075	311.625
G-4	08Z060	68.750
G-5	08Z075	335.750
G-6	08Z060	93.000
G-7	08Z060	87.000
G-8	08Z060	348.000
G-9	08Z060	87.000
G-10	08Z075	335.750
G-11	08Z060	335.750
CB-3	RD05-	365.000
JB-1	J08C060	25.000

CONNECTION PLATES FRAME LINE E	
☐ID	MARK/PART
1	JCE01
2	GCC03&bt

SIDEWALL FRAMING PLAN

GENERAL NOTES

1. STD. ROD/CABLE SIZES PER PART PREFIX ARE:

ROD		CABLE	
RD05-	= 5/8" ROD	CA02-	= 1/4" CABLE
RD06-	= 3/4" ROD	CA03-	= 3/8" CABLE
RD07-	= 7/8" ROD	CA04-	= 1/2" CABLE
RD08-	= 1" ROD		
RD09-	= 1 1/8" ROD		
RD10-	= 1 1/4" ROD		

2. ROD/CABLE BRACING THAT OCCURS IN FLUSH OR INSET GIRT CONDITIONS WILL REQUIRE FIELD SLOTTING OF GIRT WEBS TO ALLOW FOR BRACING.
3. FRAMED OPENINGS WHICH ARE FIELD LOCATED WILL REQUIRE FIELD CUTTING OF GIRTS AND SHEETING.
4. THIS DRAWING IS NOT TO SCALE.

CITY APPROVED PLANS
Reviewed for Code Compliance
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ANCHOR BOLTS FOR CONST	MBS	CAY	MFM	MO	11/01/2022
FOR BUILD DEPT. REVIEW	MBS	CAY	MFM		11/03/2022

NUCOR AMERICAN BUILDINGS a brand
2260 TEMAYA DRIVE
MODESTO, CA 95354
PHONE: (209) 236-0580
FAX: (209) 236-0588

PROJECT NAME: TF FIRE TRAINING-PO
430 VICTORY ROAD, TWIN FALLS, ID 83301
CUSTOMER NAME: STARR CORPORATION
TWIN FALLS, ID 83303
JOB NUMBER: N22J0683A
SHEET TITLE

PROFESSIONAL ENGINEER LICENSED 13897 STATE OF IDAHO MASAAKI ORIKURA 11/03/2022

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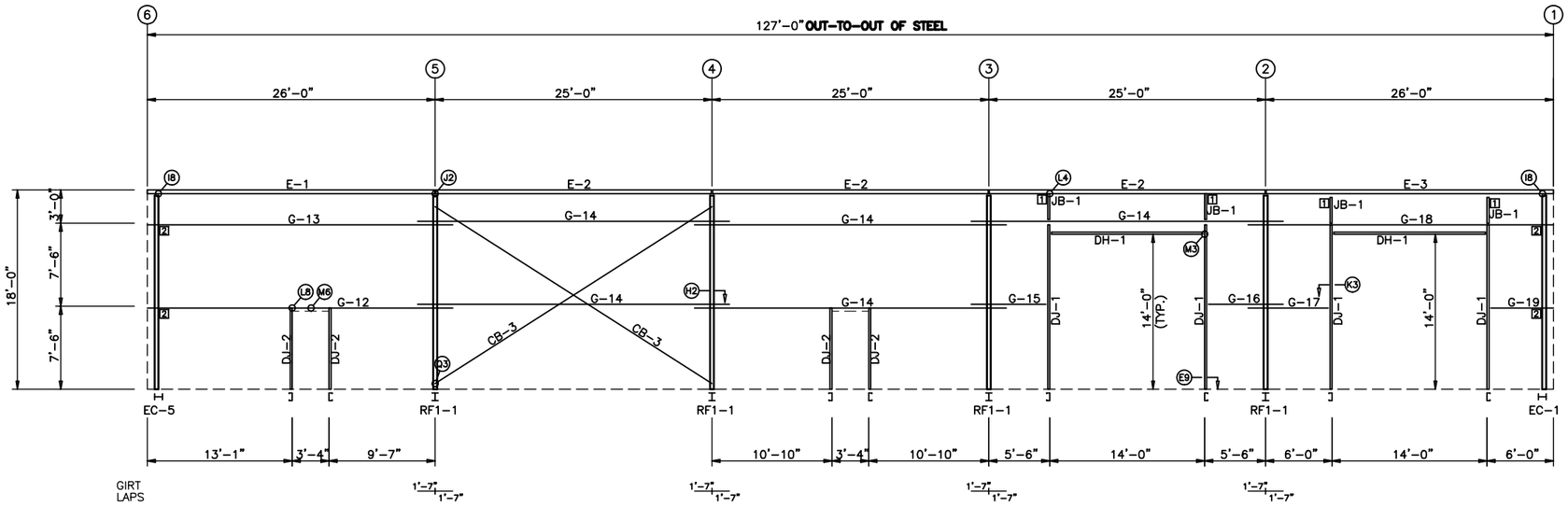
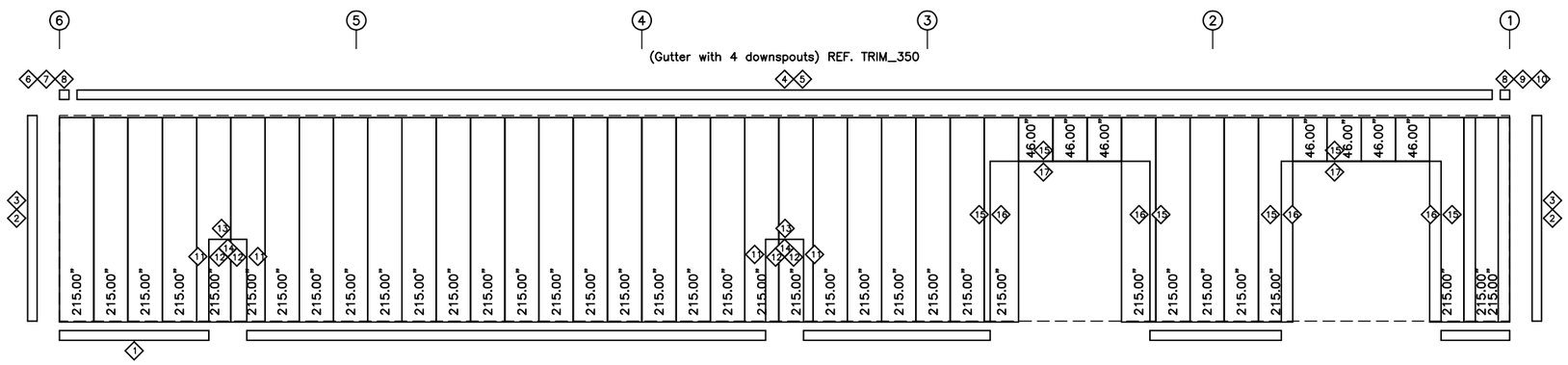
SHEET E5 of 8



SIDEWALL FRAMING: FRAME LINE A



SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26 Ga. RPW – Pearl Gray PVDF

TRIM TABLE FRAME LINE A			
◇ID	PART	LENGTH	DETAIL
1	BSA242	242.000	TRIM_364
2	COB242	242.000	TRIM_353
3	MFR121	121.000	TRIM_353
4	GSA121	121.000	TRIM_452
5	GSA242	242.000	TRIM_452
6	H4000AL	10.120	
7	RSCL	9.250	
8	RSCE	9.250	
9	H4000AR	10.120	
10	RSCR	9.250	
11	CC8121	121.000	TRIM_375
12	JTA087	87.000	TRIM_373
13	CW8040	40.000	TRIM_375
14	HTA044	44.000	TRIM_373
15	CC8169	169.000	TRIM_375
16	JTA169	169.000	TRIM_373
17	HTA172	172.000	TRIM_373

MEMBER TABLE FRAME LINE A		
MARK	PART	LENGTH
DJ-1	J08C060	180.000
DJ-2	J08C060	90.000
DH-1	J08C060	168.000
E-1	95E075	311.625
E-2	95E075	299.750
E-3	95E075	311.625
G-12	08Z075	330.750
G-13	08Z060	330.750
G-14	08Z060	338.000
G-15	08Z060	82.000
G-16	08Z060	82.000
G-17	08Z060	88.000
G-18	08Z075	330.750
G-19	08Z060	68.750
CB-3	RD05-	365.000
JB-1	J08C060	25.000

CONNECTION PLATES FRAME LINE A	
□ID	MARK/PART
1	JCE01
2	GCC03&bt

SIDEWALL FRAMING PLAN

GENERAL NOTES

1. STD. ROD/CABLE SIZES PER PART PREFIX ARE:

ROD		CABLE	
RD05-	= 5/8" ROD	CA02-	= 1/4" CABLE
RD06-	= 3/4" ROD	CA03-	= 3/8" CABLE
RD07-	= 7/8" ROD	CA04-	= 1/2" CABLE
RD08-	= 1" ROD		
RD09-	= 1 1/8" ROD		
RD10-	= 1 1/4" ROD		

2. ROD/CABLE BRACING THAT OCCURS IN FLUSH OR INSET GIRT CONDITIONS WILL REQUIRE FIELD SLOTTING OF GIRT WEBS TO ALLOW FOR BRACING.
3. FRAMED OPENINGS WHICH ARE FIELD LOCATED WILL REQUIRE FIELD CUTTING OF GIRTS AND SHEETING.
4. THIS DRAWING IS NOT TO SCALE.

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FOR BUILD DEPT. REVIEW	MBS	CAY	MFM		11/03/2022

NUCOR AMERICAN BUILDINGS a brand
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430 VICTORY ROAD, TWIN FALLS, ID 83301
CUSTOMER NAME: STARR CORPORATION
TWIN FALLS, ID 83303
JOB NUMBER: N22J0683A
SHEET TITLE

PROFESSIONAL ENGINEER LICENSED 13897 STATE OF IDAHO MASAAKI ORIKURA 11/03/2022

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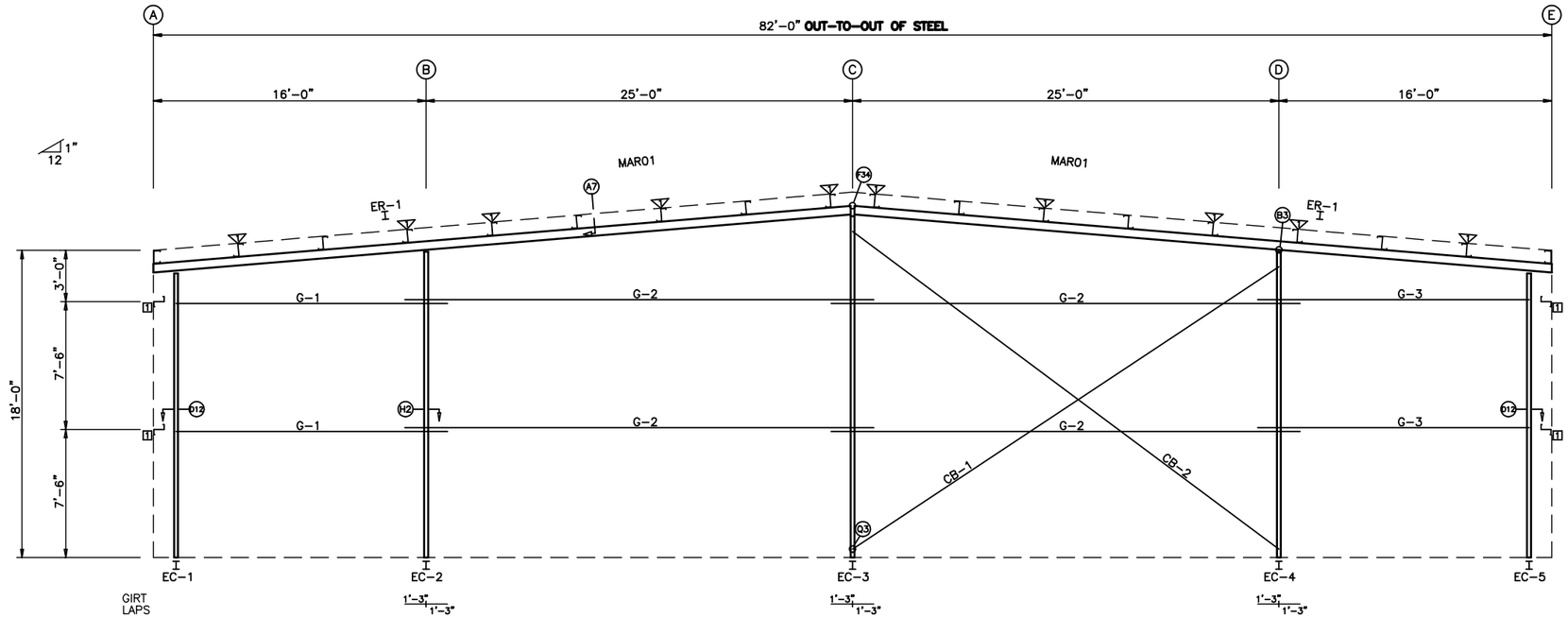
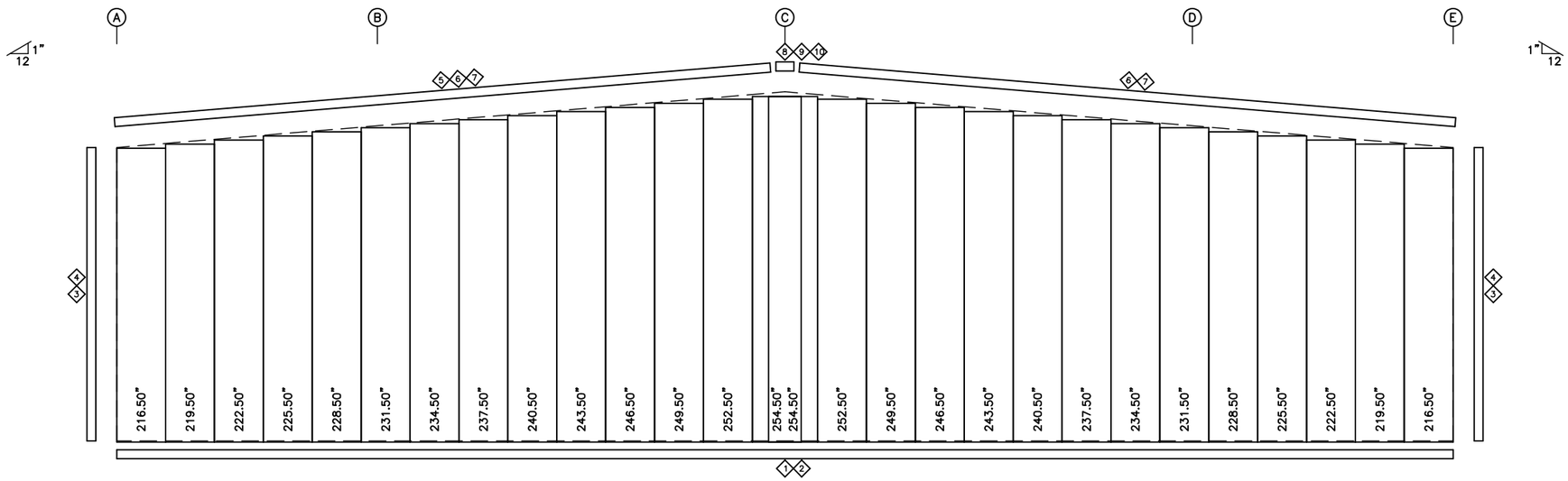
SHEET: E6 of 8



ENDWALL FRAMING: FRAME LINE 1



ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Ga. RPW – Pearl Gray PVDF

BOLT TABLE FRAME LINE 1				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-1	4	A325	1/2"	2"
Columns/Raf	4	A325	1/2"	2"

TRIM TABLE FRAME LINE 1			
◇ID	PART	LENGTH	DETAIL
1	BSA121	121.000	TRIM_364
2	BSA242	242.000	TRIM_364
3	COB242	242.000	TRIM_353
4	MFR121	121.000	TRIM_353
5	RSA121	121.000	TRIM_399
6	RSA242	242.000	TRIM_399
7	RTR121	121.000	TRIM_399
8	MPAA01	26.440	
9	MPP01	14.380	

MEMBER TABLE FRAME LINE 1		
MARK	PART	LENGTH
EC-1	W8x10	199.813
EC-2	W8x10	214.438
EC-3	W8x10	239.313
EC-4	W8x10	214.438
EC-5	W8x10	199.813
ER-1	W8x18	492.500
G-1	08Z060	198.500
G-2	08Z060	330.000
G-3	08Z060	198.500
CB-1	RD05-	369.000
CB-2	RD05-	384.000

FLANGE BRACE TABLE FRAME LINE 1			
▽ ID	# SIDES	MARK	CLIP
1	1	FBC30	FBL&N01

CONNECTION PLATES FRAME LINE 1	
□ID	MARK/PART
1	GCC03&bt

ENDWALL FRAMING PLAN

GENERAL NOTES

1. STD. ROD/CABLE SIZES PER PART PREFIX ARE:

ROD		CABLE	
RD05-	= 5/8" ROD	CA02-	= 1/4" CABLE
RD06-	= 3/4" ROD	CA03-	= 3/8" CABLE
RD07-	= 7/8" ROD	CA04-	= 1/2" CABLE
RD08-	= 1" ROD		
RD09-	= 1 1/8" ROD		
RD10-	= 1 1/4" ROD		

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FOR BUILD DEPT. REVIEW	MBS	CAY	MFM		11/03/2022

NUCOR BUILDINGS GROUP
AMERICAN BUILDINGS
a NUCOR brand
2260 TEMAYA DRIVE
MODESTO, CA 95354
PHONE: (209) 236-0580
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PROJECT NAME: TF FIRE TRAINING-PO
430 VICTORY ROAD, TWIN FALLS, ID 83301

CUSTOMER NAME: STARR CORPORATION
TWIN FALLS, ID 83303

JOB NUMBER: N22J0683A

SHEET TITLE

PROFESSIONAL ENGINEER LICENSED 13897 STATE OF IDAHO MASAAKI ORIKURA 11/03/2022

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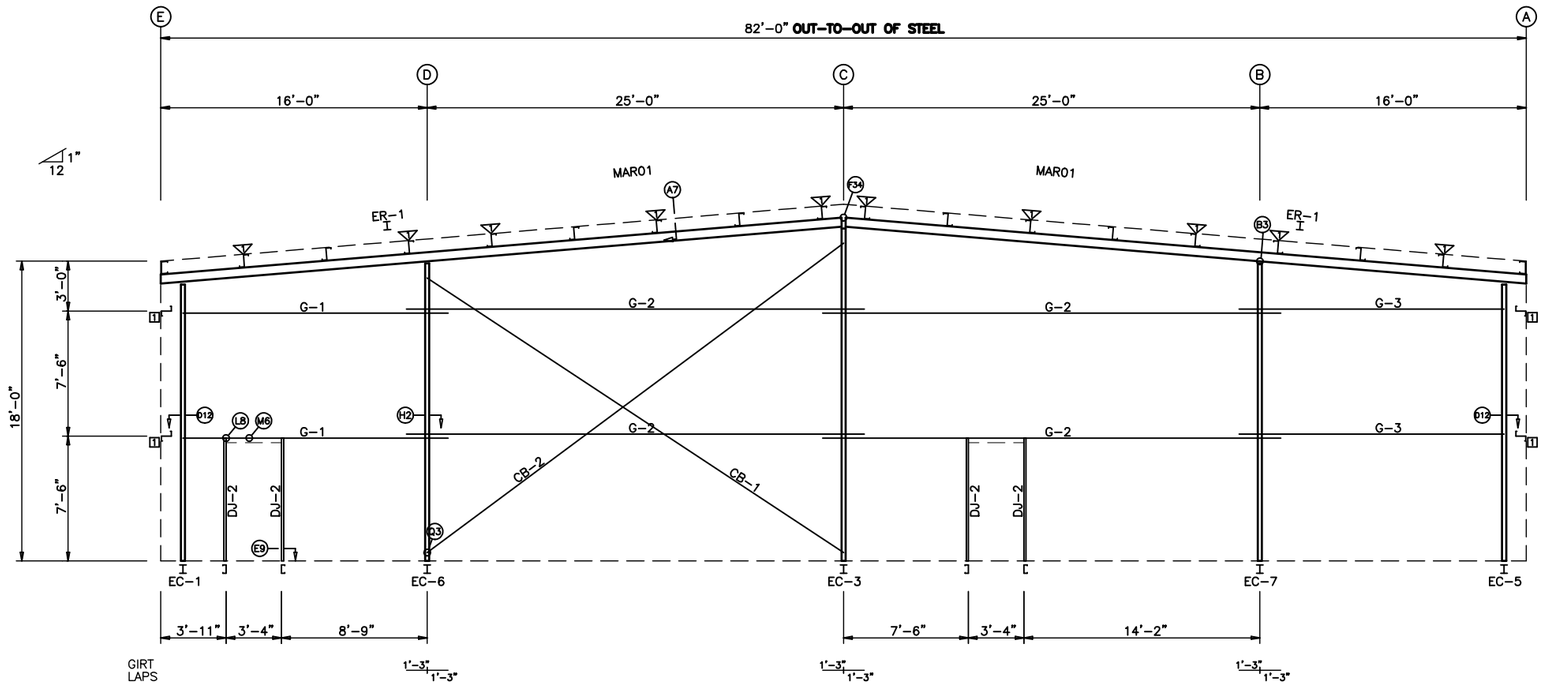
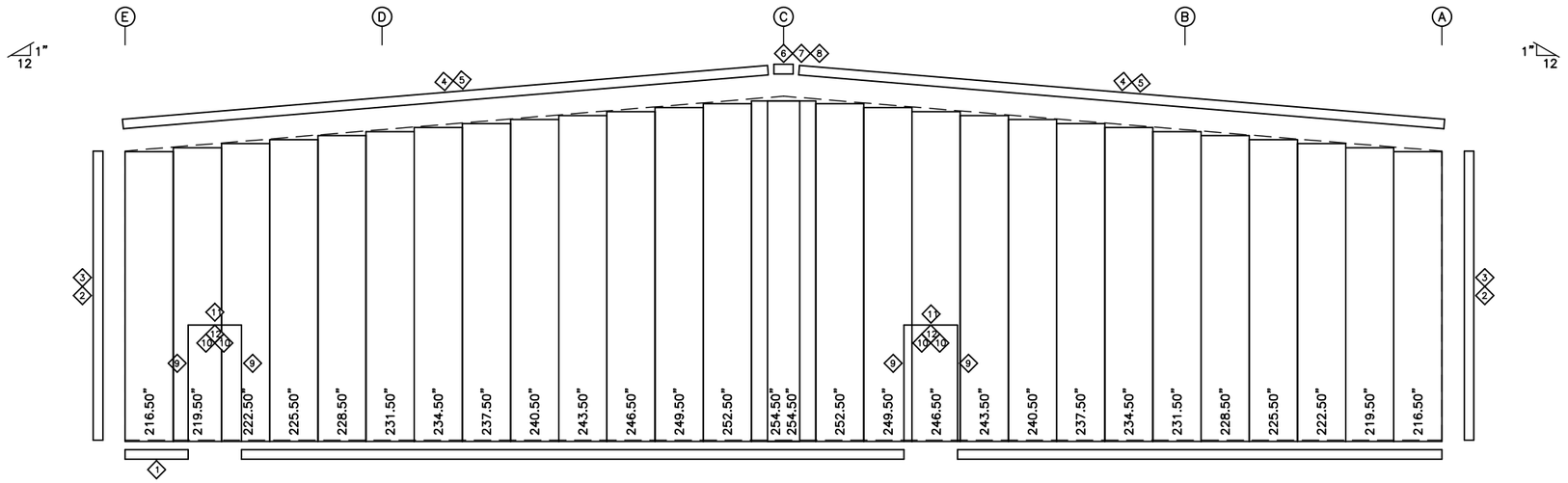
SHEET: E7 of 8



ENDWALL FRAMING: FRAME LINE 6



ENDWALL SHEETING & TRIM: FRAME LINE 6

PANELS: 26 Ga. RPW – Pearl Gray PVDF

CITY APPROVED PLANS

Reviewed for Code Compliance

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BOLT TABLE FRAME LINE 6				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-1	4	A325	1/2"	2"
Columns/Raf	4	A325	1/2"	2"

TRIM TABLE FRAME LINE 6			
◇ID	PART	LENGTH	DETAIL
1	BSA242	242.000	TRIM_364
2	COB242	242.000	TRIM_353
3	MFR121	121.000	TRIM_353
4	RSA242	242.000	TRIM_399
5	RTR121	121.000	TRIM_399
6	MPAA01	26.440	
7	MPP01	14.380	
8	CC8121	121.000	TRIM_375
9	JTA087	87.000	TRIM_373
10	CW8040	40.000	TRIM_375
11	HTA044	44.000	TRIM_373

MEMBER TABLE FRAME LINE 6		
MARK	PART	LENGTH
EC-1	W8x10	199.813
EC-3	W8x10	239.313
EC-5	W8x10	199.813
EC-6	W8x10	214.438
EC-7	W8x10	214.438
ER-1	W8x18	492.500
DJ-2	J08C060	90.000
G-1	08Z060	198.500
G-2	08Z060	330.000
G-3	08Z060	198.500
CB-1	RD05-	369.000
CB-2	RD05-	384.000

FLANGE BRACE TABLE FRAME LINE 6			
▽ ID	# SIDES	MARK	CLIP
1	1	FBC30	FBL&N01

CONNECTION PLATES FRAME LINE 6	
□ID	MARK/PART
1	GCC03&bt

ENDWALL FRAMING PLAN

GENERAL NOTES

1. STD. ROD/CABLE SIZES PER PART PREFIX ARE:

ROD		CABLE	
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RD06-	= 3/4" ROD	CA03-	= 3/8" CABLE
RD07-	= 7/8" ROD	CA04-	= 1/2" CABLE
RD08-	= 1" ROD		
RD09-	= 1 1/8" ROD		
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FOR BUILD DEPT. REVIEW	MBS	CAY	MFM		11/03/2022

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JOB NUMBER: N22J0683A

SHEET TITLE

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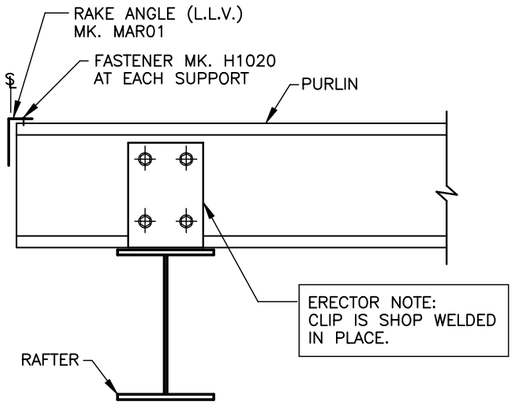
SHEET E8 of 8

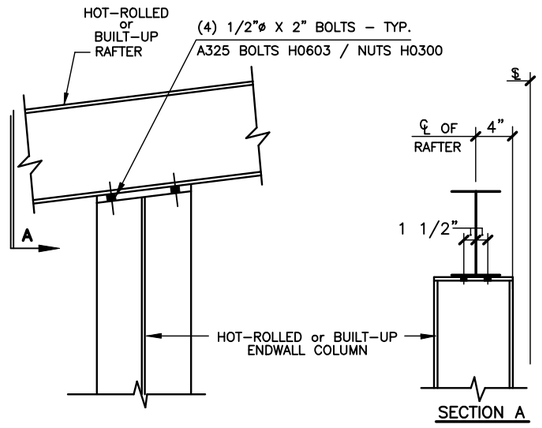


WELDED CLIP @ ENDWALL RAFTER

BB0050

USE (4) 1/2" x 1 1/4" A307
BOLTS H0500 / NUTS H0400
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

A7



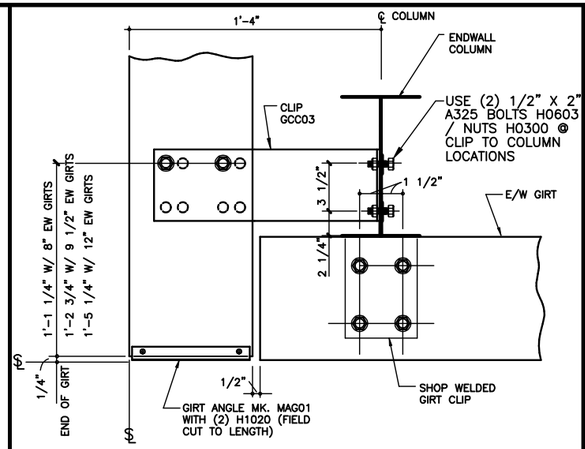
ENDWALL COLUMN TO RAFTER

AB0090

HOT-ROLLED or BUILT-UP COLUMN to RAFTER

REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

B3

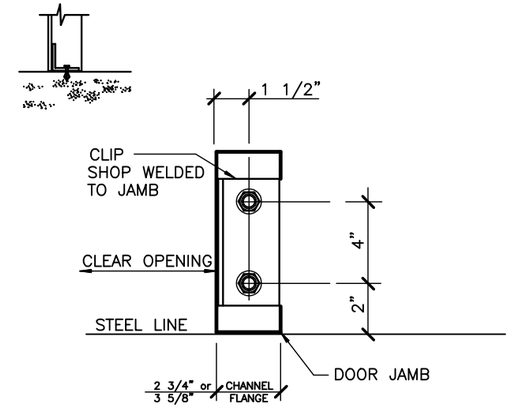


BYPASS ENDWALL GIRT AT CORNER

CF0010

USE (6) 1/2" x 1 1/4" A307
BOLTS H0500 / NUTS H0400
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

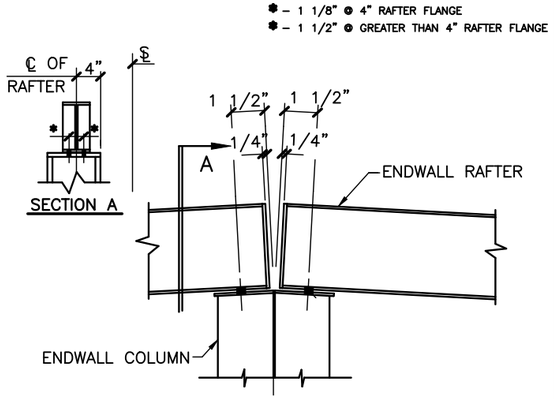
D12



JAMB TO FINISHED FLOOR

ATTACHMENT TO SLAB BY OTHERS

E9

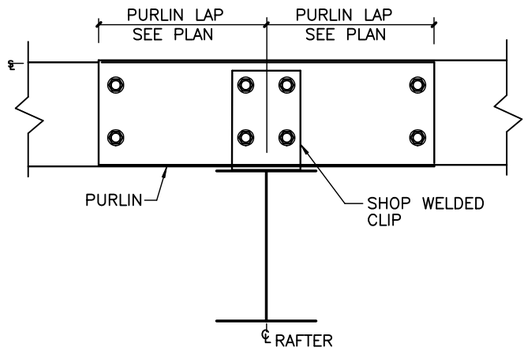


ENDWALL COLUMN TO RAFTER

AC0140

USE (4) 1/2" x 2" A325
BOLTS H0603 / NUTS H0300
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

F34



PURLIN TO INTERIOR FRAME RAFTER

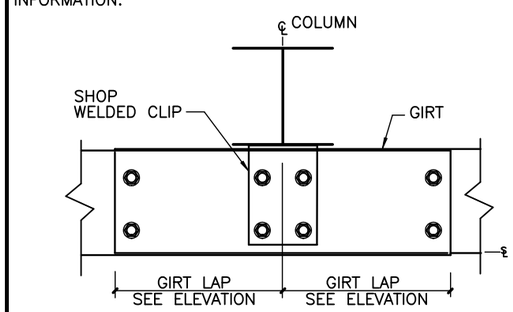
BB0050

USE (8) 1/2" x 1 1/4" A307
BOLTS H0500 / NUTS H0400
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

G2

ERECTOR NOTE:

AT EACH LAPPED GIRT CONNECTION, (1) 1/2" X 1 1/4" THIN HEAD BOLT H0510/NUT H0400 MUST BE USED TO ATTACH THE FIRST GIRT TO THE GIRT CLIP. THE BOLT/NUT ASSEMBLY MUST BE WRENCH TIGHT PRIOR TO THE LAPPED GIRT BEING INSTALLED. REFERENCE THE STANDARD "LAPPED GIRT DETAIL" FOR MORE INFORMATION.



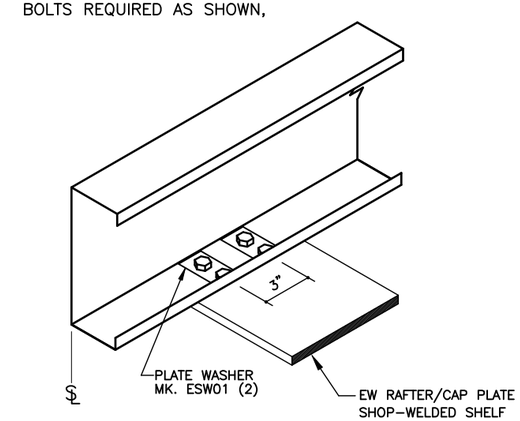
GIRT TO COLUMN

CI0020

USE (7) 1/2" x 1 1/4" A307
BOLTS H0500 / NUTS H0400
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

H2

BOLTS REQUIRED AS SHOWN,



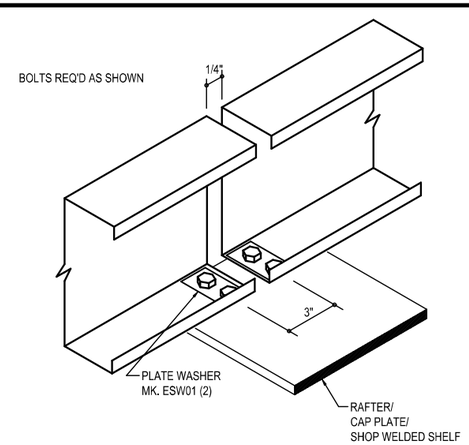
EAVE STRUT TO ENDWALL RAFTER

BA0080

USE (4) 1/2" x 2" A325 BOLTS H0603 / NUTS H0300

REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

I8



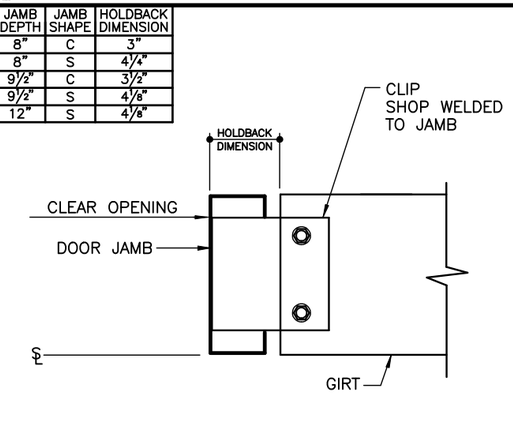
LOW EAVE EAVE STRUT AT BYPASS GIRTS

BA0020

USE (4) 1/2" x 2" A325 BOLTS H0603 / NUTS H0300
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

J2

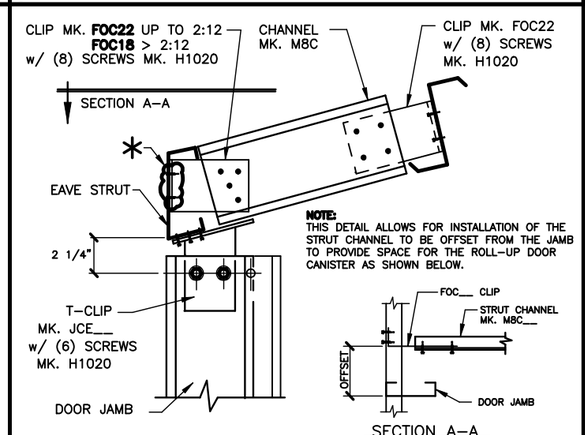
JAMB DEPTH	JAMB SHAPE	HOLDBACK DIMENSION
8"	C	3"
8"	S	4 1/4"
9 1/2"	C	3 1/2"
9 1/2"	S	4 1/8"
12"	S	4 1/8"



GIRT TO JAMB

USE (2) 1/2" x 1 1/4" A307
BOLTS H0500 / NUTS H0400
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

K3



JAMB TO EAVE STRUT

* – DO NOT ALIGN SCREWS WITH HOLES IN CLIP
USE (2) 1/2" x 1 1/4" A307 BOLTS H0500 / NUTS H0400
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

L4

CITY APPROVED PLANS
Reviewed for Code Compliance
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ISSUE	DWN	CHK	ENG	PE	DATE
ANCHOR BOLTS FOR CONST	MBS	CAY	MFM	MO	11/01/2022
FOR BUILD DEPT. REVIEW	MBS	CAY	MFM		11/03/2022

NUCOR AMERICAN BUILDINGS a brand
2260 TEMAYA DRIVE
MODESTO, CA 95354
PHONE: (209) 236-0580
FAX: (209) 236-0688

PROJECT NAME
TF FIRE TRAINING-PO
430 VICTORY ROAD, TWIN FALLS, ID 83301

CUSTOMER NAME
STARR CORPORATION
TWIN FALLS, ID 83303

JOB NUMBER
N22J0683A

SHEET TITLE

PROFESSIONAL ENGINEER LICENSED 13897 STATE OF IDAHO MASAAKI ORIKURA 11/03/2022

SHEET
D1 of 9

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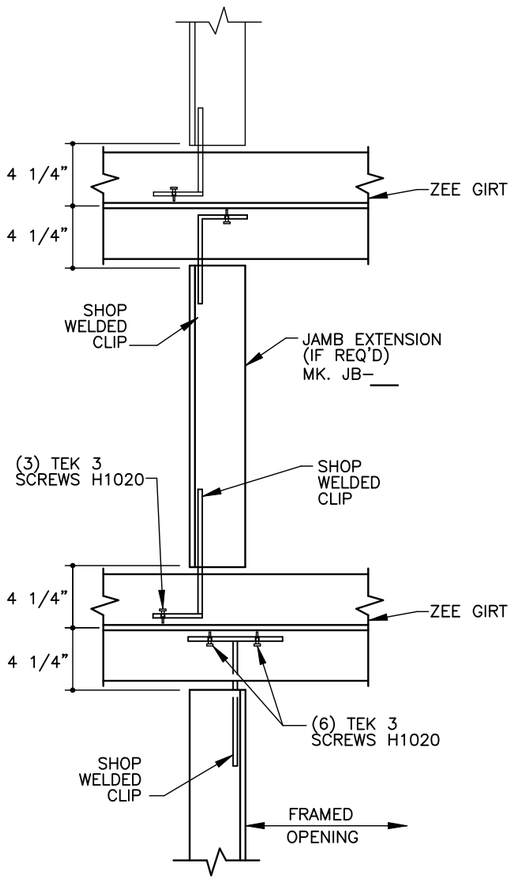
ERECTOR NOTES:

–IF THE T–CLIP IS LOCATED IN THE SAME LOCATION AS NESTED GIRT BOLTS, THE NESTED GIRT BOLTS CAN BE REMOVED.

–PRE–DRILL HOLES AT NESTED ZEE GIRTS AND DOUBLE CEE GIRTS AS REQUIRED.

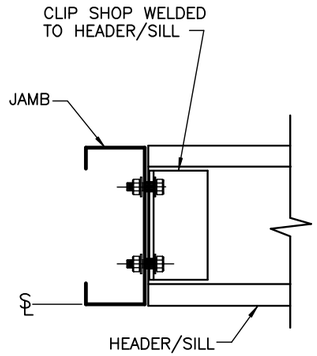


DOOR JAMB TO GIRT

REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

L8

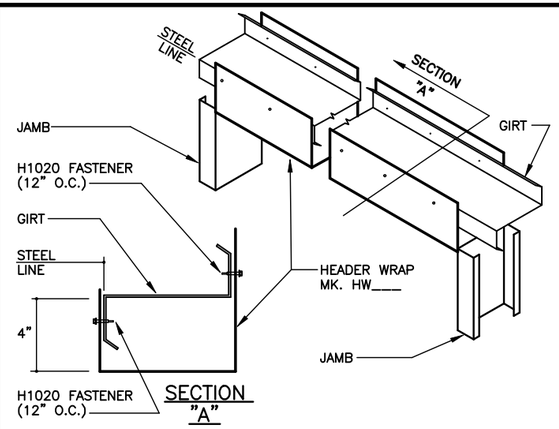
CG0070



HEADER/SILL TO JAMB

USE (2) 1/2" x 1 1/4" A307 BOLTS H0500 / NUTS H0400
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

M3



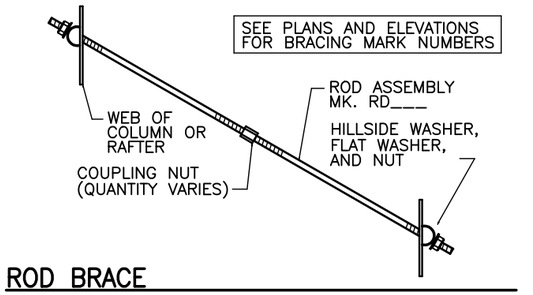
CG0025

HEADER WRAP DETAIL

M6

ROD DIAMETER	MARK NUMBER	HILLSIDE WASHERS	FLAT WASHERS	A307/A325 NUTS	COUPLING NUTS
5/8" ø	RD05–__	(2) H0930	(2) H0210	(2) H0310	H0810
3/4" ø	RD06–__	(2) H0930	(2) H0220	(2) H0320	H0820
7/8" ø	RD07–__	(2) H0930	(2) H0230	(2) H0325	H0830
1" ø	RD08–__	(2) H0960	(2) H0240	(2) H0330	H0840
1 1/8" ø	RD09–__	(2) H0960	(2) H0250	(2) H0450	H0850
1 1/4" ø	RD10–__	(2) H0960	(2) H0260	(2) H0340	H0860

SEE PLANS AND ELEVATIONS FOR BRACING MARK NUMBERS



ROD BRACE

WEB TO WEB

Q3

AF0010

ISSUE	DWN	CHK	ENG	PE	DATE
ANCHOR BOLTS FOR CONST	MBS	CAY	MFM	MO	11/01/2022
FOR BUILD DEPT. REVIEW	MBS	CAY	MFM		11/03/2022

AMERICAN BUILDINGS a NUCOR brand
2260 TEMAYA DRIVE
MODESTO, CA 95354
PHONE: (209) 236-0580
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430 VICTORY ROAD, TWIN FALLS, ID 83301

CUSTOMER NAME
STARR CORPORATION
TWIN FALLS, ID 83303

JOB NUMBER
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SHEET TITLE

PROFESSIONAL ENGINEER LICENSED 13897 STATE OF IDAHO MASAAKI ORIKURA
11/03/2022

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SHEET
D2 of 9

HEX HEAD BOLT
WASHER
WASHER
NUT
SLOT
SLOT

SLOT TO SLOT CONNECTIONS

WASHERS REQUIRED ON BOTH SIDES OF MATERIAL IF SLOTS ARE ON BOTH SIDES. (EXCEPTION: SEE DETAIL AT RIGHT FOR LAPPED ZEE MEMBERS)

HEX HEAD BOLT
WASHER
NUT
SLOT
HOLE

SLOT TO HOLE CONNECTIONS

ONE WASHER REQUIRED ON SLOTTED SIDE ONLY.

HEX HEAD BOLT
NUT
HOLE
HOLE

HOLE TO HOLE CONNECTIONS

NO WASHERS REQUIRED WHEN SLOTS ARE NOT USED.

BUTTON HEAD BOLT
WASHER
NUT
SLOT
SLOT

SLOT TO SLOT CONNECTIONS

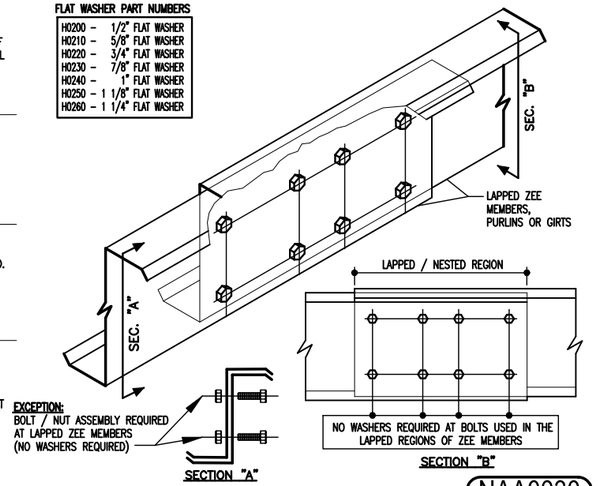
WASHER REQUIRED AT NUT SIDE ONLY FOR BUTTON HEAD BOLTS. (BUTTON HEAD BOLTS HAVE MATERIAL GRABBING FINS UNDER THE HEAD, A WASHER IS NOT NEEDED ON BOLT HEAD SIDE).

WASHER REQUIREMENTS ERECTOR NOTE

(UNLESS NOTED OTHERWISE ON DRAWINGS)

FLAT WASHER PART NUMBERS

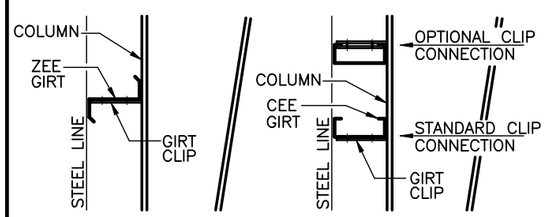
H0200 –	1/2" FLAT WASHER
H0210 –	5/8" FLAT WASHER
H0220 –	3/4" FLAT WASHER
H0230 –	7/8" FLAT WASHER
H0240 –	1" FLAT WASHER
H0250 –	1 1/8" FLAT WASHER
H0260 –	1 1/4" FLAT WASHER



NAA0030

ERECTOR NOTE: UNLESS SPECIFICALLY NOTED OTHERWISE, STANDARD ZEE GIRT ORIENTATION IS TO HAVE THE GIRT TOED DOWN AT THE STEEL LINE AS SHOWN IN THE DETAIL BELOW.

UNLESS SPECIFICALLY NOTED OTHERWISE, STANDARD CEE GIRT ORIENTATION IS TO HAVE THE GIRT TOED UP AS SHOWN IN THE DETAIL BELOW. STANDARD CLIP ATTACHMENT IS BELOW THE GIRT, HOWEVER SOME DETAILS REQUIRE THAT THE CLIP BE ABOVE THE GIRT. (REFER TO THE GIRT DETAILS ON THE ERECTION DRAWINGS FOR REQUIREMENTS) BOTH CLIP ATTACHMENTS ARE SHOWN IN THE DETAIL BELOW.

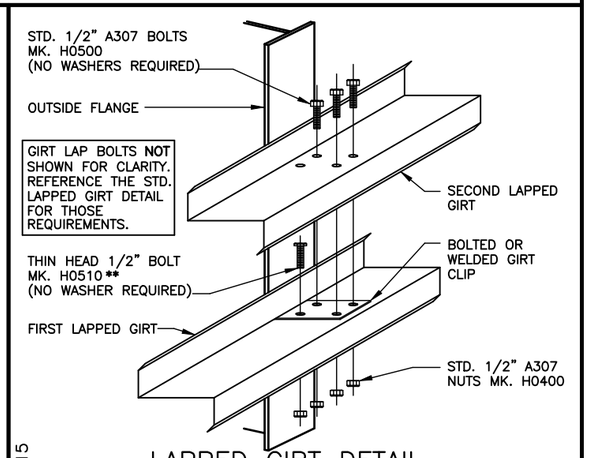


ZEE GIRT ORIENTATION — CEE GIRT ORIENTATION

STANDARD GIRT ORIENTATION DETAIL

NOTE: BYPASS GIRT CONDITION IS SHOWN FOR REFERENCE ONLY. YOUR PROJECT MAY HAVE FLUSH OR INSET GIRTS.

CC0005



LAPPED GIRT DETAIL

LAPPED GIRTS @ INTERIOR BAY COLUMNS

** THE THIN HEAD 1/2" A307 BOLT MUST BE INSTALLED INTO THE FIRST GIRT AND CLIP OF A LAPPED CONDITION. THE BOLT/NUT ASSEMBLY MUST BE WRENCH TIGHT PRIOR TO THE SECOND LAPPED GIRT BEING INSTALLED.

CC0015

TYPICAL FIELD WELD REQUIREMENTS ERECTOR NOTE:

(UNLESS NOTED OTHERWISE ON DRAWINGS)

ALL FIELD WELDING **MUST BE PERFORMED BY AWS/CWB CERTIFIED WELDERS WHO ARE QUALIFIED** FOR THE WELDING PROCESSES AND POSITIONS INDICATED.

ALL WORK MUST BE **COMPLETED AND INSPECTED IN ACCORDANCE WITH THE APPLICABLE AWS/CWB SPECIFICATIONS.**

WELD ELECTRODES USED FOR THE SMAW (OR STICK) WELD PROCESS **MUST BE 70 KSI/483 MPa MATERIAL AND LOW HYDROGEN CONTENT.**

GALVANIZED STEEL FIELD WELDING RECOMMENDATIONS

PREPARATION OF WELD AREA

AWS D–19.0, WELDING ZINC COATED STEEL, CALLS FOR WELDS TO BE MADE ON STEEL THAT IS FREE OF ZINC IN THE AREA TO BE WELDED. FOR GALVANIZED STRUCTURAL COMPONENTS, THE ZINC COATING SHOULD BE REMOVED AT LEAST ONE TO FOUR INCHES (2.5–10 cm) FROM EITHER SIDE OF THE INTENDED WELD ZONE AND ON BOTH SIDES OF THE WORKPIECE. GRINDING BACK THE ZINC COATING IS THE PREFERRED AND MOST COMMON METHOD; BURNING THE ZINC AWAY OR PUSHING BACK THE MOLTEN ZINC FROM THE WELD AREA ARE ALSO EFFECTIVE.

TOUCH–UP OF WELD AREA

WELDING ON GALVANIZED SURFACES DESTROYS THE ZINC COATING ON AND AROUND THE WELD AREA. RESTORATION OF THE AREA WILL BE PERFORMED IN ACCORDANCE WITH ASTM A 780, STANDARD PRACTICE FOR REPAIR OF DAMAGED AND UNCOATED AREAS OF HOT–DIP GALVANIZED COATINGS, WHICH SPECIFIES THE USE OF PAINTS CONTAINING ZINC DUST, ZINC–BASED SOLDERS OR SPRAYED ZINC. ALL TOUCHUP AND REPAIR METHODS ARE CAPABLE OF BUILDING A PROTECTIVE LAYER TO THE THICKNESS REQUIRED BY ASTM A 780.

SAFETY & HEALTH

WHEN WELDING DIRECTLY ON GALVANIZED STEEL IS UNAVOIDABLE, OSHA PERMISSIBLE EXPOSURE LIMITS (PELS) MAY BE EXCEEDED AND EVERY PRECAUTION, INCLUDING HIGH–VELOCITY CIRCULATING FANS WITH FILTERS, AIR RESPIRATORS AND FUME–EXTRACTION SYSTEMS SUGGESTED BY AWS, SHOULD BE EMPLOYED. FUMES FROM WELDING GALVANIZED STEEL CAN CONTAIN ZINC, IRON, AND LEAD. FUME COMPOSITION TYPICALLY DEPENDS ON THE COMPOSITION OF THE MATERIALS USED, AS WELL AS THE HEAT APPLIED BY THE PARTICULAR WELDING PROCESS. IN ANY EVENT, GOOD VENTILATION MINIMIZES THE AMOUNT OF EXPOSURE TO FUMES.

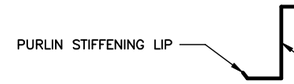
PRIOR TO WELDING ON ANY METAL, CONSULT ANSI/ASC Z–49.1, SAFETY IN WELDING, CUTTING AND ALLIED PROCESSES, WHICH CONTAINS INFORMATION ON THE PROTECTION OF PERSONNEL AND THE GENERAL AREA, VENTILATION AND FIRE PREVENTION.

INFORMATION COURTESY OF AMERICAN GALVANIZERS ASSOCIATION

TYPICAL FIELD WELD REQUIREMENTS

NAA0040

COLLATERAL DEAD LOADS, UNLESS OTHERWISE NOTED, ARE ASSUMED TO BE UNIFORMLY DISTRIBUTED. WHEN SUSPENDED SPRINKLER SYSTEMS, LIGHTING, HVAC EQUIPMENT, CEILINGS, ETC. ARE SUSPENDED FROM ROOF MEMBERS, CONSULT ENGINEER OF RECORD IF THESE CONCENTRATED LOADS EXCEED 500 POUNDS (USING THE WEB MOUNT DETAIL) OR 200 POUNDS (USING THE FLANGE MOUNT DETAIL), OR IF INDIVIDUAL MEMBERS ARE LOADED SIGNIFICANTLY MORE THAN OTHERS.



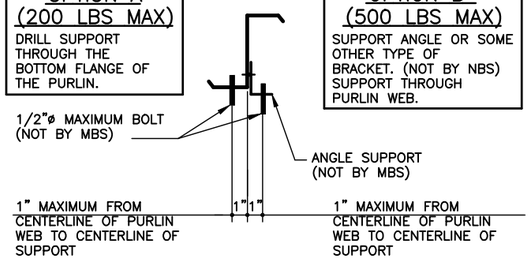
GENERAL RESTRICTION:

UNDER NO CIRCUMSTANCES CAN THE PURLIN STIFFENING LIP BE FIELD MODIFIED FROM THE FACTORY SUPPLIED CONDITION. ALSO DO NOT HANG ANYTHING FROM PURLIN STIFFENING LIP.

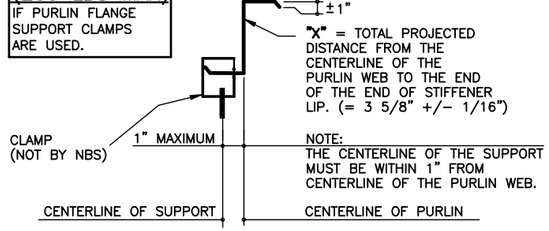
OPTIONS FOR SUPPORT ATTACHMENTS

OPTION A (200 LBS MAX)
DRILL SUPPORT THROUGH THE BOTTOM FLANGE OF THE PURLIN.

OPTION B (500 LBS MAX)
SUPPORT ANGLE OR SOME OTHER TYPE OF BRACKET. (NOT BY NBS) SUPPORT THROUGH PURLIN WEB.



OPTION C: (200 LBS MAX)
IF PURLIN FLANGE SUPPORT CLAMPS ARE USED.



PURLIN SUPPORT METHODS

B00010

NBD0130

ISSUE	DWN	CHK	ENG	PE	DATE
ANCHOR BOLTS FOR CONST	MBS	CAY	MFM	MO	11/01/2022
FOR BUILD DEPT. REVIEW	MBS	CAY	MFM		11/03/2022

AMERICAN BUILDINGS a NUCOR brand
2260 TEMPA DRIVE
MODESTO, CA 95354
PHONE: (209) 236-0580
FAX: (209) 236-0588

PROJECT NAME: TF FIRE TRAINING-PO
430 VICTORY ROAD, TWIN FALLS, ID 83301
CUSTOMER NAME: STARR CORPORATION
TWIN FALLS, ID 83303
JOB NUMBER: N22J0683A
SHEET TITLE

FBC__ INDICATES LENGTH OF FLANGE BRACE IN INCHES
BLANK LENGTH

FBH– COUNTER (1–999)
SPECIAL LENGTH FLANGE BRACE
BLANK LENGTH

FBE__ COUNTER (01–07)
COPED FLANGE BRACE
BLANK LENGTH

FBJ– COUNTER (1–999)
SPECIAL LENGTH COPED FLANGE BRACE
BLANK LENGTH

FBF– COUNTER (1–999)
3" X 3" X 1/4" BRACE ANGLE
BLANK LENGTH

FBK__ INDICATES LENGTH OF FLANGE BRACE IN INCHES
BLANK LENGTH

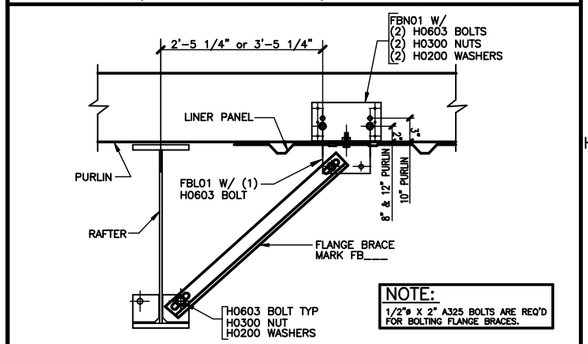
FLANGE BRACE MARK NUMBERS

NAG0003

AG0003

ATTENTION

INSTALL FBN01 PRIOR TO INSTALLING UNDERSIDE FABRIC, VAPOR BARRIER, OR LINER PANEL.



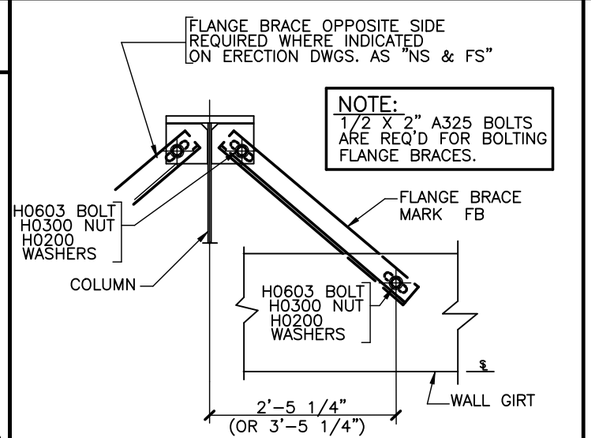
TYP FLANGE BRACE @ PURLIN & RAFTER

SEE PLANS AND ELEVATIONS FOR FLANGE BRACE PART MARKS

FIELD CUT AND FLATTEN PANEL RIB IF INTERFERENCE WITH FLANGE BRACE OCCURS.

ANGLE_101

AC0110



TYP FLANGE BRACE @ BU COL & GIRT

NOTE: SEE PLANS AND ELEVATIONS FOR FLANGE BRACE PART MARKS

NAG0030

AG0030

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE FOR ALL INSPECTIONS

PROFESSIONAL ENGINEER LICENSED 13897 STATE OF IDAHO MASAAKI ORIKURA 11/03/2022

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SHEET D3 of 9

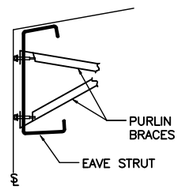
INSTALLATION INSTRUCTIONS

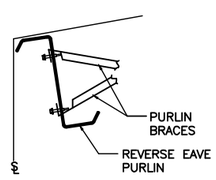
1) FOR PURLIN BRACE "X", INSERT ANGLES "BACK-TO-BACK" INTO THE FACTORY PUNCHED SLOTS. BEND TABS AS SHOWN AND FASTEN THROUGH TAB WITH (1) H1020 FASTENER PER END.

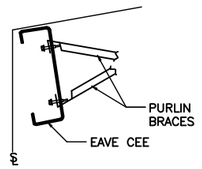
2) CONNECT PURLIN BRACE "X" AT THE ANGLE INTERSECTION WITH (1) H1020 FASTENER.

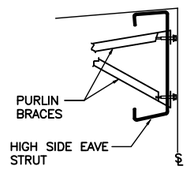
3) PURLIN BRACING IS NOT TO DISTORT OR ALTER PURLINS FROM THEIR INTENDED SHAPE OR LOCATION.

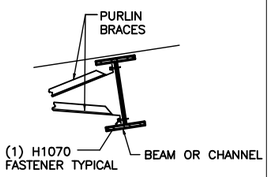
4) SEE DETAILS BELOW FOR ADDITIONAL INFORMATION WHEN ATTACHING TO ALTERNATE FRAMING MEMBERS.



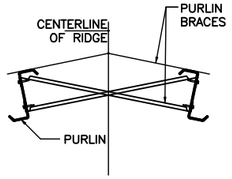




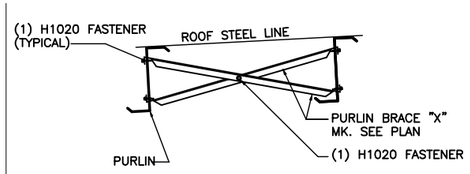


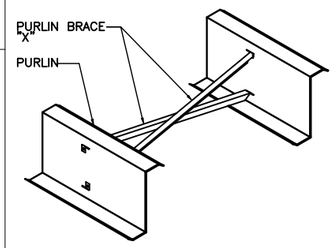


NOTE: IF CHANNEL, IT MAY BE TOED UP OR DOWN.



BE0010



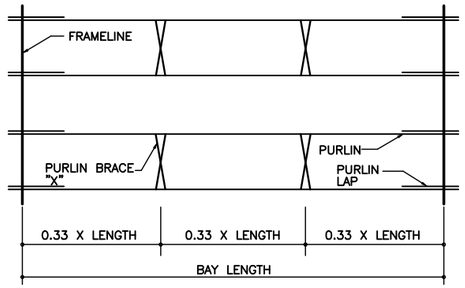


NOTE: PURLIN BRACING ATTACHMENT METHOD IS THE SAME REGARDLESS OF THE SECONDARY MEMBER TYPE (ZEE, CEE, EAVE STRUT, BEAM, ETC.)

PLAN VIEW OF PURLIN BRACING LOCATIONS PER BAY

1) SEE ROOF FRAMING PLAN(S) FOR PURLIN BRACE MARK NUMBERS, QUANTITIES AND LOCATIONS.

2) (2) ROWS OF PURLIN BRACING IS SHOWN BELOW FOR REFERENCE ONLY, ACTUAL NUMBER OF ROWS MAY VARY PER BAY AND PER PROJECT, SEE ROOF FRAMING PLAN(S) FOR SPACING.



PURLIN BRACING ATTACHMENT METHODS

ANGLE_130

ISSUE	DWN	CHK	ENG	PE	DATE
ANCHOR BOLTS FOR CONST	MBS	CAY	MFM	MO	11/01/2022
FOR BUILD DEPT. REVIEW	MBS	CAY	MFM		11/03/2022

NUCOR BUILDINGS GROUP a brand of AMERICAN BUILDINGS
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TWIN FALLS, ID 83303

JOB NUMBER
N22J0683A

SHEET TITLE

PROFESSIONAL ENGINEER LICENSED 13897 STATE OF IDAHO MASAAKI ORIKURA
11/03/2022

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE FOR ALL INSPECTIONS

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SHEET
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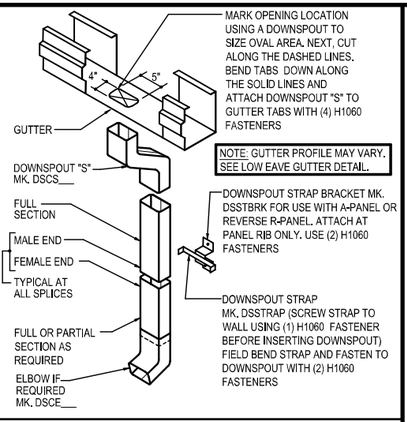
USE (4) POP RIVETS MK. H1100 AT ALL ELBOW, "S", AND DOWNSPOUT CONNECTIONS U.N.O.

ERECTOR NOTES:
1. MITERING OF THE "S" WILL BE REQUIRED AT SLOPES OVER 4:12 FOR PROPER LINE UP WITH THE DOWNSPOUT.

2. IF PROJECT CONTRACT SPECIFIES "S" SHAPES AT THE BOTTOM OF THE DOWNSPOUT IN LIEU OF ELBOWS, SEE DETAIL GA0105.

3. LOCATE ONE DOWNSPOUT STRAP AT EVERY "S", ELBOW AND DOWNSPOUT SPLICE.

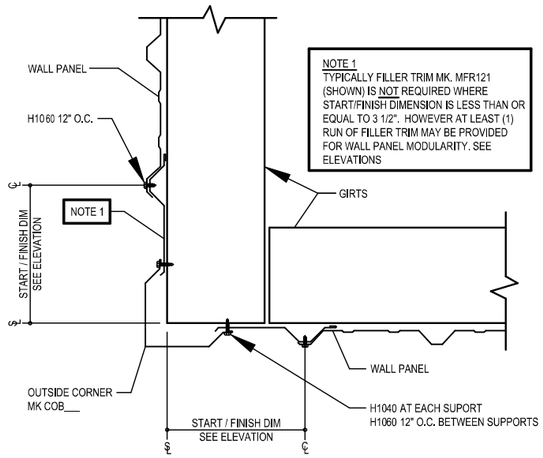


DOWNSPOUT STRAP (MK. DSSTRAP) AND STRAP BRACKETS (MK. DSSTBRK) ARE ALSO PROVIDED FOR MASONRY WALL APPLICATIONS AS WELL AS FOR ATTACHMENT TO COLUMNS. FASTENERS TO MASONRY ARE NOT PROVIDED. H1060 FASTENERS ARE PROVIDED FOR COLUMN ATTACHMENT APPLICATIONS. PRE-DRILLING WILL BE REQUIRED.

STANDARD CORRUGATED DOWNSPOUT DETAIL

REFERENCE GUTTER AND DOWNSPOUT SCHEDULE FOR DOWNSPOUT MARK NUMBERS

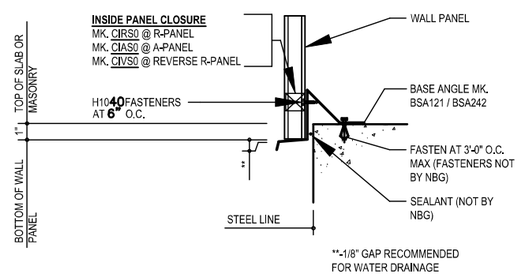
TRIM 350



OUTSIDE CORNER DETAIL

TRIM 353

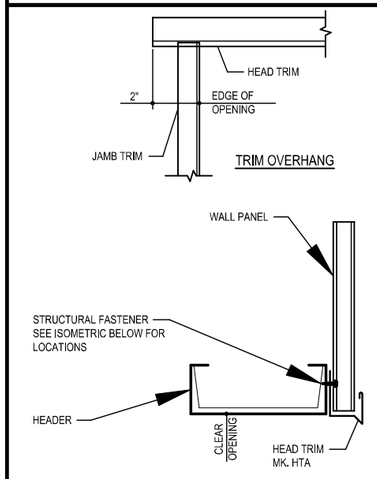
* FIELD MITER BASE ANGLE TRIM AT CORNERS *



BASE ANGLE TRIM DETAIL

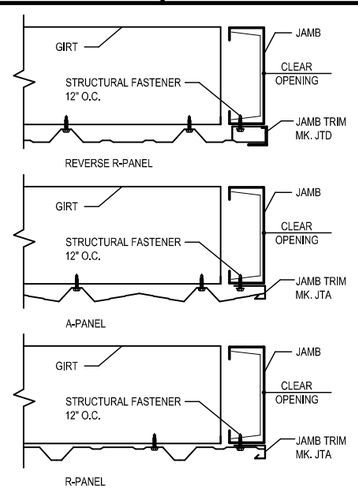
SEE WALL SHEETING ERECTION NOTES FOR WALL PANEL FASTENER LOCATIONS

TRIM 364



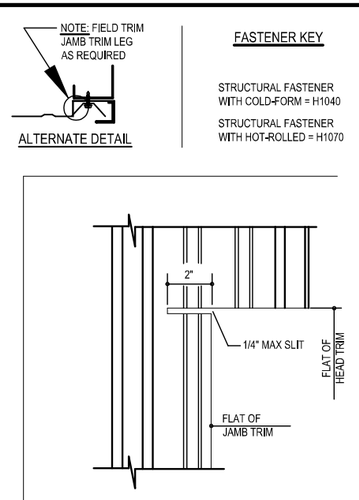
STEP 1 - INSTALL HEAD TRIM

INSTALL HEAD TRIM PRIOR TO INSTALLING WALL PANEL



STEP 2 - INSTALL JAMB TRIM

FIELD CUT WALL PANELS AS REQUIRED AFTER JAMB TRIM INSTALLATION



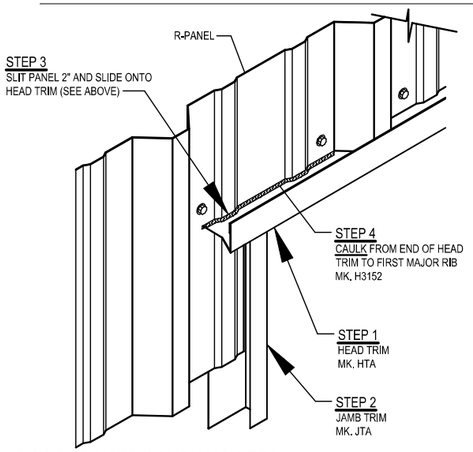
STEP 3 - SLIT WALL PANEL

SLIT WALL PANEL AS SHOWN PRIOR TO INSTALLING TO ALLOW PANEL TO SLIDE AROUND HEAD TRIM.

FASTENER KEY

STRUCTURAL FASTENER WITH COLD-FORM = H1040

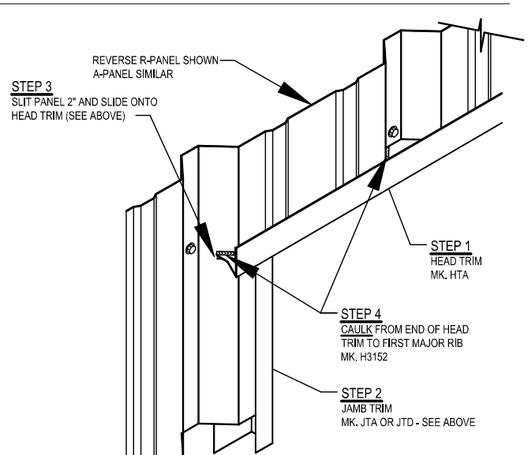
STRUCTURAL FASTENER WITH HOT-ROLLED = H1070

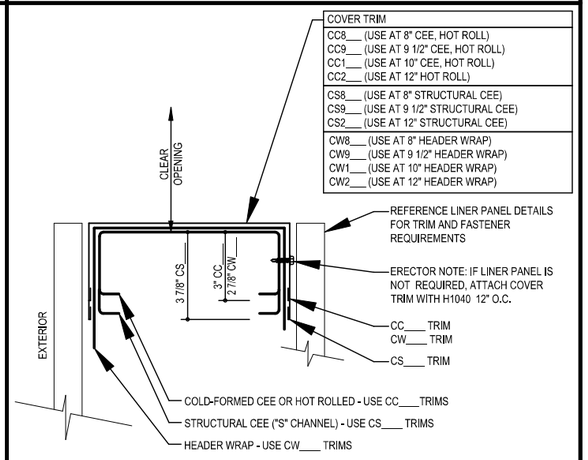


DOOR FRAMED OPNENING DETAIL

FOR ALL STANDARD WALL PANEL TYPES
LEFT HAND SHOWN, RIGHT HAND SIMILAR

TRIM 373





FRAMED OPNENING COVER TRIM

FOR ALL STANDARD WALL PANEL TYPES
SILL SHOWN, HEAD AND JAMBS SIMILAR

TRIM_375

ISSUE	DWN	CHK	ENG	PE	DATE
ANCHOR BOLTS FOR CONST	MBS	CAY	MFM	MO	11/01/2022
FOR BUILD DEPT. REVIEW	MBS	CAY	MFM		11/03/2022

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PROJECT NAME
TF FIRE TRAINING-PO
430 VICTORY ROAD, TWIN FALLS, ID 83301

CUSTOMER NAME
STARR CORPORATION
TWIN FALLS, ID 83303

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SHEET
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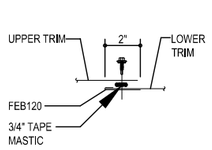
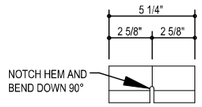
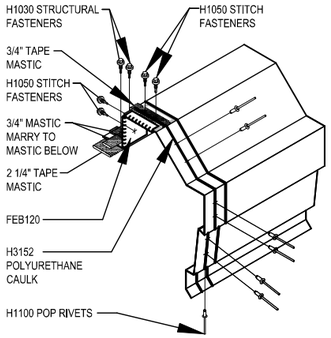
RAKE LAP & FLASHING BACKER

SLIDE FIELD CUT SECTION OF FLASHING ENDLAP BACKER ONTO THE LOWER TRIM PIECE AS SHOWN BELOW. PLACE TAPE MASTIC NEXT TO HEM OF THE BACKER (NOT ON TOP OF HEM). APPLY CONTINUOUS BEAD OF CAULK 1" FROM END OF TRIM DOWN PROFILE OF TRIM. FASTEN LAP WITH STITCH FASTENERS AND POP RIVETS AS SHOWN. ROOF STRUCTURAL FASTENERS SHOULD BE USED TO FASTEN THROUGH PANEL FLAT INTO RAKE ANGLE.

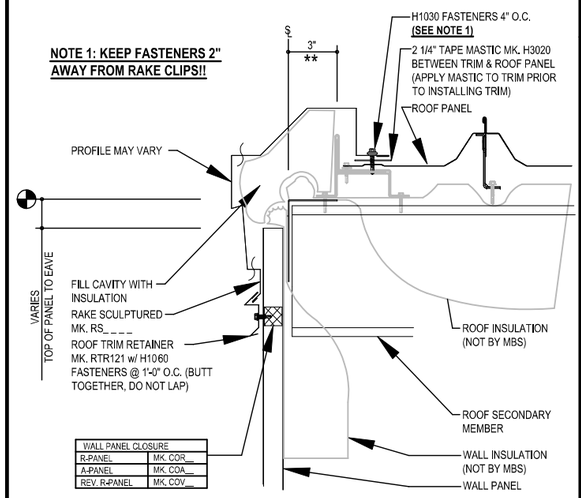




FLASHING ENDLAP BACKER
FIELD CUT FROM STANDARD FEB120



NOTE 1: KEEP FASTENERS 2" AWAY FROM RAKE CLIPS!!



WALL PANEL CLOSURE	
R-PANEL	MK. COR_
A-PANEL	MK. COA_
REV. R-PANEL	MK. COV_

RAKE SCULPTURED DETAIL

RAKE SCULPTURED DETAIL w/ WALL PANELS
SEE WALL SHEETING ERECTION NOTES FOR WALL PANEL FASTENER LOCATIONS

TRIM_399

METAL PEAK BOX AND PEAK PLATE PREPERATION

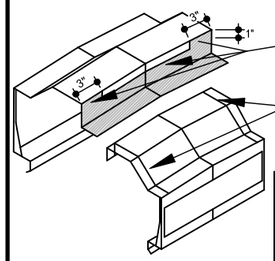
PEAK BOX PREPARATION
STEP 1

ERECTOR NOTE:

PRIOR TO INSTALLING THE FIRST OR LAST PIECE OF RIDGE CAP, THE PEAK BOX AND PEAK PLATE NEED TO BE INSTALLED.

PEAK BOX

START BY FIELD CUTTING THE BACK LEG OF THE PEAK BOX OFF AS SHOWN BELOW. NEXT APPLY A CONTINUOUS BEAD OF **POLYURETHANE TUBE CAULK (H3152)** ON THE UNDERSIDE OF THE PEAK BOX WHERE IT COMES IN CONTACT WITH THE RAKE TRIMS. APPLY **POLYURETHANE TUBE CAULK (H3152)** TO ANY GAPS ON THE UNDERSIDE OF THE PEAK BOX IN THE MITERED AREA.



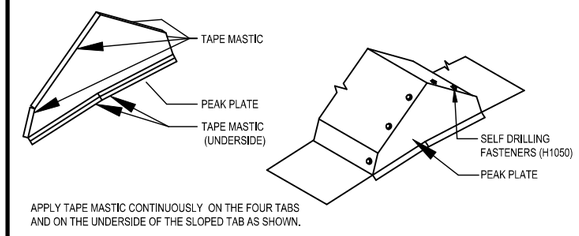
MEASURE DOWN 1" AND FIELD CUT THE LOWER PORTION OF PEAK BOX OFF AS SHOWN. ALSO NOTCH 3" TO ALLOW TO FIT AROUND OUTSIDE CLOSURE

APPLY A CONTINUOUS BEAD OF TUBE CAULK ON THE UNDERSIDE OF THE PEAK BOX AT ALL AREAS WHERE IT COMES IN CONTACT WITH THE RAKE TRIM.

ROOF SLOPE	PEAK BOX	PEAK PLATE
0.5:12	MPA A 50	MPP50
1:12	MPA A 01	MPP01
2:12	MPA A 02	MPP02
3:12	MPA A 03	MPP03
4:12	MPA A 04	MPP04
5:12	MPA A 05	MPP05
6:12	MPA A 06	MPP06

PEAK PLATE WITH RIDGE CAP PREPARATION
STEP 2

START BY APPLYING A CONTINUOUS STRIP OF **1 ½" TAPE MASTIC (H3001)** TO THE TOP OF THE FOUR TABS AND THE UNDERSIDE OF THE SLOPED TAB AS SHOWN. NEXT PLACE THE PEAK PLATE INSIDE OF THE RIDGE CAP AND FASTEN WITH **(6)** TRIM COLORED **(H1050)** FASTENERS.



APPLY TAPE MASTIC CONTINUOUSLY ON THE FOUR TABS AND ON THE UNDERSIDE OF THE SLOPED TAB AS SHOWN.

RIDGE CAP WITH METAL PEAK BOX INSTALLATION

DETAIL SHOWN WITH ROOF AND WALL PANEL.

EG7630

METAL PEAK BOX & PEAK PLATE INSTALLATION AT STANDARD RAKE TRIM
STEP 3

CENTER THE PREPARED PEAK BOX OVER THE RIDGE. ONCE CENTERED, PUSH THE PEAK BOX DOWN AND OVER THE RAKE TRIMS. MAKE SURE THE BACK LIP OF THE PEAK BOX IS BETWEEN THE OUTSIDE PANEL CLOSURE AND THE RAKE TRIM. TO ACHIEVE THIS YOU MAY NEED TO BACK OUT THE FASTENER ON THE OUTSIDE PANEL CLOSURE TAB AND THEN RE-INSTALL.FINISH INSTALLING THE RAKE RETAINER TRIM OVER THE PEAK BOX.

INSTALL CONTINUOUS **1 1/2" TAPE MASTIC (H3001)** ALONG THE TOP OF THE OUTSIDE PANEL CLOSURE ON BOTH SIDES OF THE RIDGE. REMOVE THE PAPER BACKING ONLY AS WORK PROGRESSES.

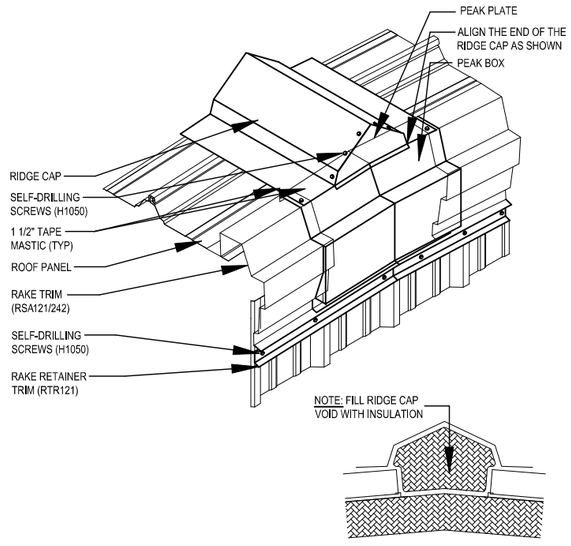
AFTER THE PEAK BOX IS IN PLACE, EXTEND THE **1 1/2" TAPE MASTIC (H3001)** FROM THE OUTSIDE PANEL CLOSURE TO THE SLOPED FACE TO THE PEAK BOX. NEXT, INSTALL SHORT PIECES OF **1 1/2" TAPE MASTIC (H3001)** TO THE FLAT PORTION OF THE RIDGE CAP (AS SHOWN).

CENTER THE PREPARED SECTION OF RIDGE CAP OVER THE OUTSIDE PANEL CLOSURE AND FASTEN WITH (5) RIDGE CAP COLORED SELF-DRILLING SCREWS **(H1050)** PER PANEL WIDTH. (2" FROM EACH RIB AND 5" O/C IN BETWEEN). BE SURE THAT THE EDGE OF THE RIDGE CAP IS FLUSH WITH THE SLOPED FACE.

START THE RIDGE CAP FLUSH WITH THE SLOPED EDGE OF THE RAKE TRIM AS SHOWN IN THE DETAIL BELOW.

RIDGE CAP MUST BE PROPERLY POSITIONED BEFORE TOUCHING THE MASTIC. **MASTIC CANNOT BE REUSED.**

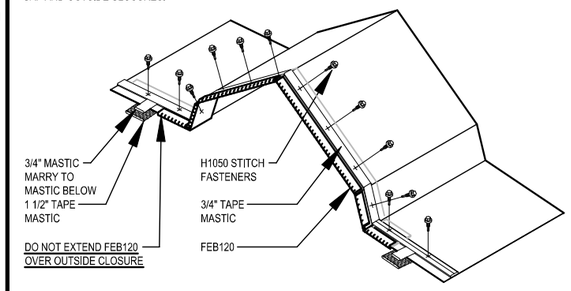
FASTEN THE RIDGE CAP TO THE RAKE TRIM USING SELF-DRILLING **H1050** SCREWS. **DO NOT PLACE ANY FASTENERS IN THE PEAK BOX.** DOING SO WILL NOT ALLOW THE RAKE TRIM TO "FLOAT" WITH THE EXPANSION AND CONTRACTION OF THE ROOF SYSTEM

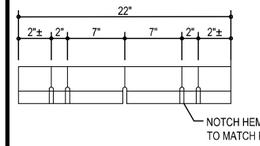


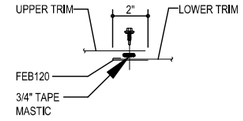
TRIM_400

RIDGE CAP LAP & FLASHING BACKER

SLIDE FIELD CUT SECTION FLASHING ENDLAP BACKER ONTO THE LOWER TRIM PIECE. PLACE TAPE MASTIC NEXT TO HEM OF THE BACKER (NOT ON TOP OF HEM). MARRY LAP MASTIC WITH MASTIC BETWEEN RIDGE CAP AND OUTSIDE CLOSURES.

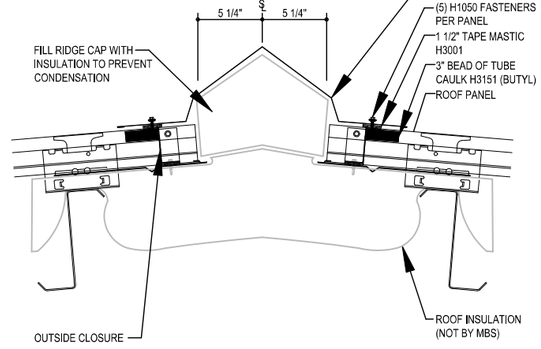






FLASHING ENDLAP BACKER
FIELD CUT FROM STANDARD FEB120

H1020 FASTENERS (PURLINS) / H1070 FASTENERS (JOIST) AND H2200 INSULATION WASHERS HAVE BEEN SUPPLIED AT 12" O.C. FOR INSULATION ATTACHMENT AT RIDGE.



RIDGE TRIM DETAIL

RIDGE TRIM DETAIL

TRIM_444

ISSUE	DWN	CHK	ENG	PE	DATE
ANCHOR BOLTS FOR CONST	MBS	CAY	MFM	MO	11/01/2022
FOR BUILD DEPT. REVIEW	MBS	CAY	MFM		11/03/2022

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PROJECT NAME
TF FIRE TRAINING-PO
430 VICTORY ROAD, TWIN FALLS, ID 83301

CUSTOMER NAME
STARR CORPORATION
TWIN FALLS, ID 83303

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SHEET
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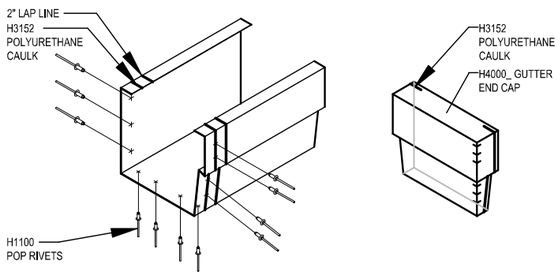
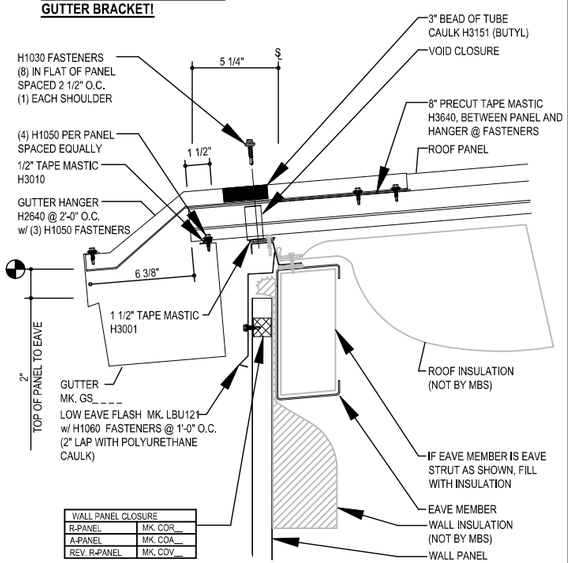
GUTTER LAP & END CAP

APPLY BEAD OF POLYURETHANE CAULK 1" FROM END OF TRIM AND LAP SECTIONS 2" AND FASTEN AS SHOWN. TO TERMINATE THE GUTTER APPLY POLYURETHANE CAULK TO THREE SIDES OF END CAP AND TOP RETURN AREA AS SHOWN AND INSERT 1/2" INTO END OF GUTTER. ATTACH WITH RIVETS SAME AS END LAP.



NOTE 1: PANEL RIB MUST BE SEAMED PRIOR TO INSTALLING GUTTER BRACKET!



ON-SLOPE GUTTER DETAIL

EAVE GUTTER DETAIL w/ WALL PANELS
SEE WALL SHEETING ERECTION NOTES FOR WALL PANEL FASTENER LOCATIONS

TRIM_452

BUILDING & PANEL PREPARATION

STEP 1: PLUMB AND SQUARE1: PLUMB AND SQUARE
THE FIRST STEP IN THE SUCCESSFUL INSTALLATION OF WALL PANELS IS TO HAVE THE PRIMARY FRAMING PLUMB AND SQUARE. FOR BEST RESULTS, IT IS RECOMMENDED THAT A TRANSIT BE USED WHEN ERECTING THE STRUCTURAL STEEL. MAKE SURE THAT THE FOUNDATION AND BUILDING STRUCTURE IS SQUARE, LEVEL, AND CORRECT TO THE OUT-TO-OUT STEEL LINE DIMENSIONS.
SEE FIGURE "A"

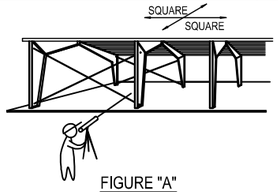


FIGURE "A"

STEP 2: GIRT BLOCKING2: GIRT BLOCKING
BLOCK GIRTS TO "LEVEL" POSITION BEFORE STARTING THE WALL SHEETING OR INSULATION. CHECK TO BE SURE THAT THE EAVE STRUT AND GIRTS ARE STRAIGHT AND PLUMB, TO ALIGN THE GIRTS, CUT TEMPORARY WOOD BLOCKING TO THE PROPER LENGTH AND INSTALL BETWEEN THE LINES OF GIRTS. THIS BLOCKING CAN BE MOVED FROM BAY TO BAY WHICH WILL REDUCE THE NUMBER OF PIECES REQUIRED. NORMALLY, ONE LINE OF BLOCKING PER BAY WILL BE SUFFICIENT BUT WIDER BAYS MAY REQUIRE MORE. IT IS RECOMMENDED TO BLOCK AT LEAST TWO BAYS AND LEAP FROG THE BLOCKING AS A BAY IS SHEETED. BLOCKING SHOULD NOT BE REMOVED UNTIL THE FULL BAY HAS BEEN SHEETED.
SEE FIGURE "B"

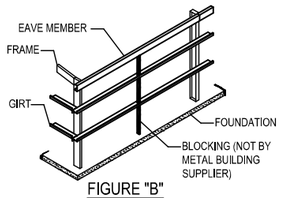


FIGURE "B"

STEP 3: PRE-DRILL PANEL LAP3: PRE-DRILL PANEL LAP
STACK PANELS WITH ENDS FLUSH ON A LEVEL PLACE ON THE GROUND IN PILES NOT EXCEEDING 10 PANELS. THEN PLACE SMALL WOODEN BLOCKS UNDER SIDE-LAPPING EDGE OF STACK OF PANELS TO HOLD THEM AT CORRECT HEIGHT AND POSITION WHILE DRILLING FASTENER HOLES. HOLD PANELS TIGHTLY TOGETHER AT EACH END WITH CLAMPING PLIERS. CAREFULLY MARK POSITIONS FOR SIDE-LAP FASTENERS ON TOP OF HIGH RIB. FASTENERS SHOULD BE LOCATED "ON CENTER" OF HIGH RIB. DRILL HOLES FOR "STITCH" FASTENER (USE #1,-7/32" - 15/64" DRILL-BIT) ON TOP SHEET OF SIDE-LAP. BE SURE PANELS ARE WELL NESTED BEFORE DRILLING.
SEE FIGURE "C"

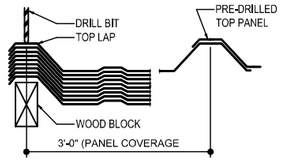


FIGURE "C"

FIELD CUTTING PANELS

WHEN FIELD CUTTING OR MITERING WALL PANELS, NON-ABRASIVE CUTTING TOOLS SUCH AS NIBBLERS OR TIN-SNIPS SHALL BE USED. ABRASIVE CUTTING TOOLS SUCH AS MECHANICAL GRINDERS OR POWER SAWS CAN DAMAGE THE MATERIAL FINISH AND CREATE EXCESS METAL SHAVINGS THAT CAN CORRODE THE PANELS. THE USE OF NON-APPROVED CUTTING DEVICES MAY VOID THE FACTORY WARRANTY.

ANY METAL SHAVINGS THAT ARE CREATED NEED TO BE CLEANED FROM THE PANEL TO PREVENT SCRATCHING AND/OR CORROSION. THE MANUFACTURER WILL NOT ACCEPT CLAIMS FOR DAMAGE/DETERIORATION DUE TO USE OF UNAPPROVED TOOLS.

FASTENER INSTALLATION

RECOMMENDED TOOL TYPES: SEE ALSO FASTENER SCHEDULETOOL TYPES: SEE ALSO FASTENER SCHEDULE
4 AMP OR HIGHER RATED TOOLS (DO NOT USE IMPACTING TOOLS)
2000 - 2500 RPM SCREW GUN WITH TORQUE ADJUSTABLE CLUTCH
MANUAL OR ELECTRIC RIVET TOOL

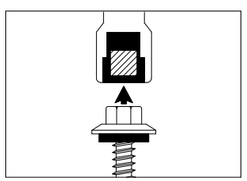
DO NOT USE IMPACTING TOOLSNOT USE IMPACTING TOOLS
TO ASSURE PROPER VOLTAGE TO THE TOOL, EXTENSION CORDS SHOULD BE CHECKED FOR PROPER WIRE SIZE/CHORD LENGTH.
16 GAGE WIRE, MAXIMUM CHORD LENGTH = 100'
14 GAGE WIRE, MAXIMUM CHORD LENGTH = 200'
12 GAGE WIRE, MAXIMUM CHORD LENGTH = 300'

DRIVING TIPS:TIPS:
SET THE NUT DRIVER AS DESCRIBED BELOW PRIOR TO INSTALLING FASTENERS TO PREVENT FASTENER WOBBLE...

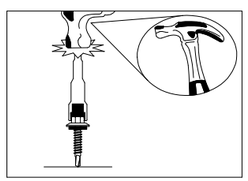
COMPRESS THE INSULATION AT FASTENER LOCATION WITH ONE HAND WHILE DRIVING THE FASTENER WITH THE OTHER. THIS WILL HELP KEEP THE PANEL FLAT AND PREVENT THE FASTENER FROM "WALKING". DRIVE FASTENERS PERPENDICULAR TO PANEL SURFACE.

EXCESSIVE PRESSURE CAN CAUSE DRILL POINT FAILURE. LET THE FASTENER DO THE WORK.

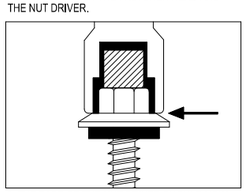
DO NOT OVER TIGHTEN FASTENERS AS THIS WILL LEAD TO PANEL DIMPLING AND DISTORTION.



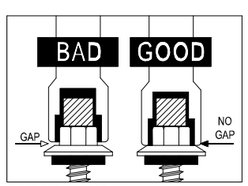
1. PUT THE TOP OF THE FASTENER INTO THE NUT DRIVER. NOTE: FOR PAINTED FASTENERS, PLACE A SINGLE OR DOUBLED LAYER OF PLASTIC BETWEEN THE FASTENER HEAD AND THE NUT DRIVER.



2. PLACE THE POINT OF THE FASTENER ONTO A HARD SURFACE AND FIRMLY HIT THE TOP OF THE NUT DRIVER 2-3 TIMES.



3. THE BASE OF THE NUT DRIVER SHOULD NOW BE CONTACTING THE TOP OF THE HEAD OF THE FASTENER WITH NO GAPS.



4. BAD SET VS. GOOD SET.

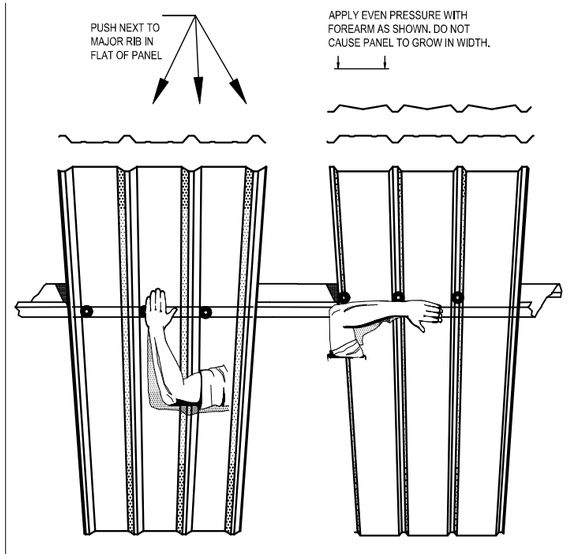


FIGURE "E"

PANEL INSTALLATION & FASTENER SEQUENCE

STEP 1: INSTALL FIRST PANEL1: INSTALL FIRST PANEL
INSTALL THE FIRST WALL PANEL AT THE BUILDING CORNER AND ALIGN THE PANEL RIB WITH THE STEEL LINE AS SHOWN IN THE CORNER DETAILS USING THE START/FINISH DIMENSION SHOWN ON THE PLAN. IT IS EXTREMELY IMPORTANT THAT THE FIRST WALL PANEL IS INSTALLED PLUMB AND SQUARE. USE A LEVEL OR A TRANSIT TO AID IN THIS PROCESS.

PLACE A 1/8" SHIM ON THE BASE TRIM UNDER THE PANEL TO HOLD THE PANEL OFF THE BASE TRIM. ENSURE THAT THE WEIGHT OF THE PANEL DOES NOT FORCE BASE TRIM TO EXCESSIVELY BEND DOWN. BASE TRIM SHOULD HAVE A SLIGHT SLOPE TO ALLOW WATER TO RUN OUT AND NOT SIT ON BASE TRIM.
SEE FIGURE "D" - TO RIGHT

WHEN INSTALLING THE PANEL, APPLY PRESSURE EVENLY TO AVOID DISTORTING THE PANEL AND CAUSING OIL CANNING.
SEE FIGURE "E" - ABOVE

RECOMMENDED PANEL FASTENING SEQUENCE IS SHOWN TO THE RIGHT. THIS PATTERN AIDS IN PLUMBING AS WELL AS MAINTAINING PANEL COVERAGE / MODULARITY. SOME APPLICATIONS MAY REQUIRE MODIFIED SEQUENCE AND WILL BE BEST DETERMINED IN THE FIELD. DO NOT ATTACH PANEL AT BASE AND TOP AND WORK TOWARD THE MIDDLE OF THE

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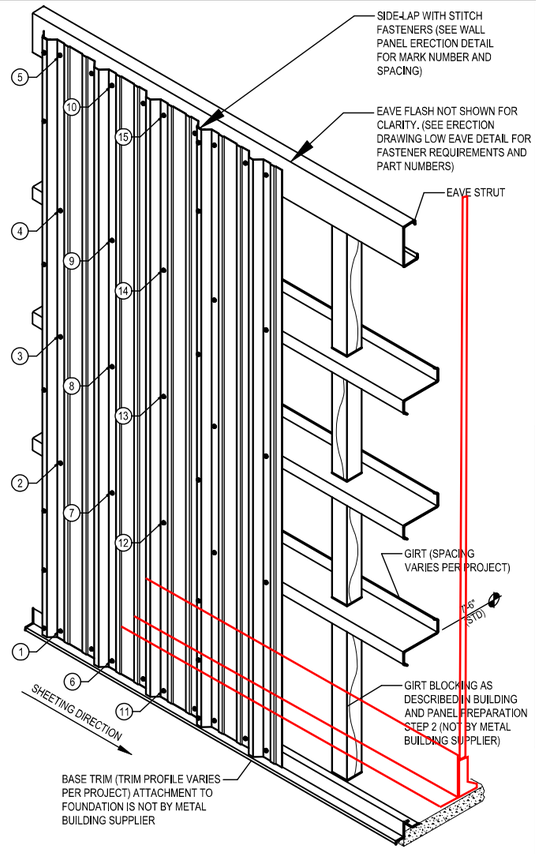
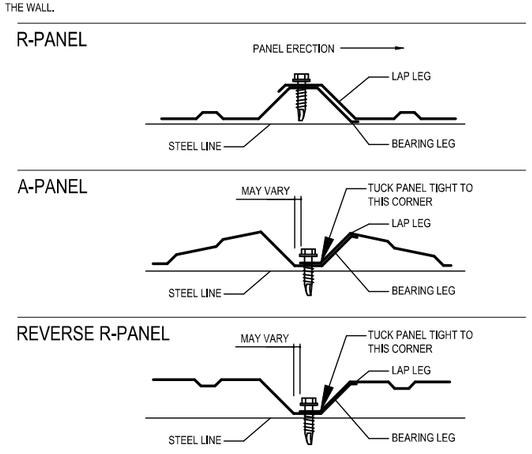


NOTE: BASE TRIM PROFILES ARE MANUFACTURED WITH A 5°D SLOPE TO PROMOTE WATER SHED. ENSURE SLOPE IS PRESENT TO PREVENT HOLDING WATER. DO NOT ALLOW WEIGHT OF PANEL TO OVER BEND TRIM CREATING LARGER GAP AT RIB OF PANEL.

FIGURE "D"

PANEL ORIENTATION AND ALIGNMENT

NOTE THE ORIENTATION OF THE PROFILE AND BEARING LEG FOR THE LEADING EDGE OF THE PANEL. PANELS SHOULD BE INSTALLED AS SHOWN BELOW TO HELP MAINTAIN PANEL MODULARITY / COVERAGE FOR THE LENGTH OF THE WALL.



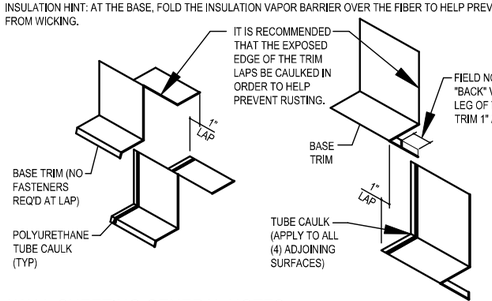
BASE TRIM LAP SEALANT

AT BASE TRIM LAPS, APPLY A BEAD OF POLYURETHANE TUBE CAULK (H3152) TO ALL ADJOINING SURFACES AND LAP 1". SEE BASE TRIM DETAIL FOR THE SPECIFIC TRIM FOR YOUR PROJECT.

IF JOB HAS OPTIONAL FOAM PANEL CLOSURES ORDERED AT BASE, ATTACH TO INSIDE OF WALL PANEL AT BASE AND FASTEN THROUGH PANEL AND CLOSURE, INTO BASE TRIM. FASTENING PATTERN WILL VARY PER WALL PANEL TYPE. REFER TO THE WALL PANEL ERECTION DETAIL FOR MORE FASTENING INFO.

USE SUPPLIED BASE CORNER PIECES OR FIELD MITER BASE TRIM AT CORNERS.

INSULATION HINT: AT THE BASE, FOLD THE INSULATION VAPOR BARRIER OVER THE FIBER TO HELP PREVENT WATER FROM WICKING.



WALL SHEETING GENERAL NOTES

ISSUE	DWN	CHK	ENG	PE	DATE
ANCHOR BOLTS FOR CONST	MBS	CAY	MFM	MO	11/01/2022
FOR BUILD DEPT. REVIEW	MBS	CAY	MFM		11/03/2022

AMERICAN BUILDINGS a NUCOR brand
2260 TEMAYA DRIVE
MODESTO, CA 95354
PHONE: (209) 236-0580
FAX: (209) 236-0588

PROJECT NAME: TF FIRE TRAINING-PO
430 VICTORY ROAD, TWIN FALLS, ID 83301
CUSTOMER NAME: STARR CORPORATION
TWIN FALLS, ID 83303
JOB NUMBER: N22J0683A
SHEET TITLE: 301

PROFESSIONAL ENGINEER LICENSED 13897 STATE OF IDAHO MASAKI ORIKURA
11/03/2022

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SHEET: D7 of 9

DESIGN AND PERFORMANCE CRITERIA

ROOF SYSTEM
THE ROOF SYSTEM CONSISTS OF 24 GAUGE PANELS WITH A NOMINAL COVERAGE OF 2'-0" AND A PANEL SEAM THAT IS 3 1/2", 4 1/2" AND 5 1/2" HIGH DEPENDING ON CLIP TYPE USED. REFER TO THE DETAILS AND SECTIONS FOR SPECIFIC PANEL CLIP TYPE.

PANEL CLIP SPACING
THE ROOF SYSTEM USES A CLIP TO ATTACH THE PANELS TO THE ROOF SECONDARY MEMBERS. PANEL CLIP SPACING REQUIREMENTS AS A STANDARD ARE REQUIRED AT EVERY PURLIN AND/OR ROOF JOIST.
FOR STRUCTURES NOT SUPPLIED BY MBS: MAXIMUM CLIP SPACING IS TO BE 5'-0" FOR PURLIN ROOFS AND 5'-6" FOR JOIST ROOFS.

PANEL CLIP FASTENING REQUIREMENTS
STANDARD CLIP FASTENERS ARE DESIGNED TO FASTEN TO A STEEL STRUCTURAL MEMBER OF .060" MINIMUM THICKNESS (16 GA.). A MINIMUM OF TWO FASTENERS ARE REQUIRED TO ENGAGE THE STRUCTURAL MEMBER AT EVERY PANEL CLIP LOCATION. IN CERTAIN INSTANCES, THREE FASTENERS MAY BE REQUIRED PER CLIP REQUIRED. LOOK ON CHART AT RIGHT AND IN THE ERECTION DRAWINGS FOR YOUR SPECIFIC FASTENER REQUIREMENTS. FASTENER PULLOUT VALUES ARE DEPENDENT UPON PROJECT LOCATION, SIZE, BUILDING CODE AND LOADING.

ROOF TOP UNITS AND CURB SUPPORTS
THE ROOF SYSTEM IS ELEVATED ABOVE THE TOP OF THE ROOF SECONDARY STRUCTURAL MEMBERS. THE ROOF CURB SUB-FRAMING IS LEVEL WITH THE SECONDARY STRUCTURAL MEMBERS. REFER TO THE DETAILS FOR PROPER JAMB LOCATIONS AND DIMENSIONS.

THE ROOF SYSTEM IS DESIGNED AS A FLOATING SYSTEM. CURB FRAMING AND FLASHING MUST BE DESIGNED ACCORDINGLY TO ALLOW THE CURB SYSTEM TO FLOAT WITH THE ROOF DURING THERMAL EXPANSION AND CONTRACTION. ROOF CURBS SHALL NOT SPAN THE RIDGE OF A BUILDING.

INSULATION REQUIREMENTS
INSULATION IS RECOMMENDED TO BE USED IN ALL ROOF APPLICATIONS TO AVOID PROBLEMS WITH CONDENSATION FORMING ON THE UNDERSIDE OF THE SHEETING. THIS ALSO PROVIDES A BUFFER BETWEEN THE PURLINS AND THE ROOF TO ELIMINATE NOISE AND POSSIBLE DAMAGE DUE TO METAL-TO-METAL CONTACT. NOISE REDUCING FOAM TAPE CAN BE SUPPLIED FOR USE IN LIMITED APPLICATIONS (CANOPIES, ETC.) WHEN INCLUDED AS PART OF THE ROOF ORDER. REFER TO THE DETAILS FOR FOAM TAPE REQUIREMENTS.

PAINTED ROOF
PAINTED STANDING SEAM ROOF PANELS ARE OFTEN PROVIDED BY MBS. IN THIS CASE, GUTTER BRACKETS AND OUTSIDE CLOSURES WILL BE PAINTED TO MATCH THE ROOF COLOR AS A STANDARD.

MASTIC APPLICATION

TEMPERATURE EXTREMES
TEMPERATURE EXTREMES MUST BE CONSIDERED DURING INSTALLATION OF THE ROOF DUE TO THE SENSITIVITY OF MASTICS. THE RECOMMENDED INSTALLATION TEMPERATURE RANGE IS 20-120 DEGREES FAHRENHEIT. AT COLDER TEMPERATURES, THE MASTIC STIFFENS RESULTING IN LOSS OF ADHESION AND COMPRESSIBILITY. AT HOTTER TEMPERATURES, THE MASTIC BECOMES TOO SOFT FOR PRACTICAL HANDLING. ON COLD BUT SUNNY DAYS, THE PANEL SURFACE MAY BECOME WARM ENOUGH TO ACCEPT THE APPLICATION OF HEATED MASTIC EVEN THOUGH THE AIR TEMPERATURE IS BELOW 20 DEGREES FAHRENHEIT.

WHEN OVERNIGHT TEMPERATURES FALL BELOW FREEZING, THE MASTIC SHOULD BE STORED IN A HEATED ROOM SO IT WILL BE WARM ENOUGH TO USE THE FOLLOWING DAY. ON HOT DAYS, THE MASTIC CARTONS SHOULD BE STORED OFF THE ROOF IN A COOL AND SHADED AREA. WHILE ON THE ROOF, MASTIC ROLLS SHOULD BE KEPT SHADED UNTIL ACTUAL USE.

IN VERY COLD WEATHER, IT IS RECOMMENDED THAT THE FASTENERS BE TIGHTENED SLOWLY AND ONLY TIGHT ENOUGH THAT THE MASTIC IS IN FULL CONTACT WITH THE PANEL OR FLASHING. THEN ON THE NEXT SUNNY DAY, COMPLETE THE TIGHTENING PROCESS AFTER THE SUN WARMS THE PANEL AND FLASHING SURFACES.

CONTAMINATION
TO ASSURE PROPER ADHESION AND SEALING, THE MASTIC MUST HAVE COMPLETE CONTACT WITH ADJOINING SURFACES. CONTAMINANTS SUCH AS WATER OIL, DIRT AND DUST PREVENT SUCH CONTACT. THE PANEL AND FLASHING SURFACES MUST BE DRY AND THOROUGHLY CLEANED OF ALL CONTAMINANTS. BEFORE APPLYING TAPE MASTIC, THE MASTIC SHOULD BE CHECKED FOR CONTAMINANTS. IF THE MASTIC SURFACES ARE CONTAMINATED, IT MUST NOT BE USED.

DURING COOL WEATHER, CONDENSATION OR LIGHT MIST CAN ACCUMULATE ON THE PANEL AND FLASHING SURFACE AND NOT BE EASILY NOTICED. IT IS RECOMMENDED THAT THE MASTICS ALWAYS BE KEPT UNDER PROTECTIVE COVER AND THAT THE PANEL AND FLASHING SURFACES BE WIPED DRY IMMEDIATELY BEFORE INSTALLATION.

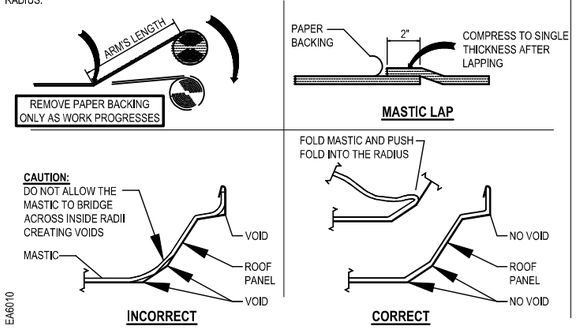
TAPE MASTIC IS PROVIDED WITH A PROTECTIVE PAPER TO REDUCE CONTAMINATION. INCOMPLETE REMOVAL OF THE PROTECTIVE PAPER WILL PREVENT THE MASTIC ADHESION TO THE PANEL OR FLASHING SURFACES. ALWAYS CHECK THAT THE PROTECTIVE PAPER IS COMPLETELY REMOVED. DO NOT REMOVE THE PROTECTIVE PAPER UNTIL IMMEDIATELY BEFORE THE PANEL OR FLASHING IS INSTALLED OVER THE MASTIC.

COMPRESSION
TO ASSURE PROPER COMPRESSION AND SEAL, THE TAPE MASTIC MUST BE COMPRESSED BETWEEN THE PANEL AND FLASHING SURFACES WITH FIRM AND UNIFORM PRESSURE. IN MOST CASES, THE REQUIRED PRESSURE IS APPLIED BY THE CLAMPING ACTION OF SCREWS PULLING THE ADJOINING SURFACES TOGETHER. HOWEVER, THE TAPE SEALANT'S RESISTANCE TO PRESSURE BECOMES GREATER IN COLD WEATHER.

DURING COLD WEATHER, THE FASTENERS MUST BE TIGHTENED SLOWLY TO ALLOW THE MASTIC TIME TO COMPRESS. IF THE FASTENERS ARE TIGHTENED TOO FAST, THE FASTENERS MAY STRIP OUT BEFORE THE MASTIC COMPRESSES ADEQUATELY, OR THE PANEL OR FLASHING MAY DEFORM IN THE IMMEDIATE AREA OF THE FASTENER, LEAVING THE REST OF THE MASTIC INSUFFICIENTLY COMPRESSED.

INSIDE CORNERS
AN INSIDE RADIUS, SUCH AS WHERE THE PANEL FLAT MEETS A RIB, IS USUALLY THE MOST CRITICAL AREA TO SEAL. A COMMON MISTAKE FOR THE INSTALLER IS TO BRIDGE THE MASTIC ACROSS THE INSIDE RADIUS.

WHEN THE LAPPING PANEL OR FLASHING IS PUSHED INTO PLACE, THE BRIDGED MASTIC IS STRETCHED AND THINNED. THE MASTIC MAY THEN BE TOO THIN TO ADEQUATELY SEAL THIS CRITICAL AREA. WHEN TAPE MASTIC IS APPLIED AT AN INSIDE RADIUS, IT IS RECOMMENDED THAT THE MASTIC BE FOLDED BACK, THEN PUSH THE MASTIC FOLD INTO THE RADIUS.



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ERECTORS RESPONSIBILITY

REGULATIONS
REGULATIONS SET FORTH BY THE OCCUPATIONAL SAFETY AND HEALTH ACT, LOCAL, STATE, AND/OR FEDERAL AGENCIES SHOULD BE ADHERED TO AT ALL TIMES. MBS IS NOT RESPONSIBLE FOR INJURY, DAMAGE, OR FAILURE, WHICH MAY BE THE RESULT FROM FAILING TO MEET ANY OF THESE REGULATIONS.

IN COMPLIANCE WITH THE HAZARD COMMUNICATION RULE 1910:1200, MATERIAL SAFETY DATA SHEETS (MSDS) HAVE BEEN PROVIDED FOR YOUR USE AND SAFETY. THESE DATA SHEETS SHOULD BE MADE AVAILABLE TO ALL PERSONNEL THAT COME IN CONTACT WITH THESE PRODUCTS. THESE DATA SHEETS WILL GIVE YOU THE NECESSARY INFORMATION TO PROPERLY HANDLE SUCH MATERIALS AND WHAT TO DO IN CASE OF AN EMERGENCY. (THE MSDS SHEETS ARE LOCATED ONLINE AND ARE AVAILABLE UPON REQUEST).

THE ERECTOR OF THE ROOF SYSTEM IS RESPONSIBLE FOR THE SAFE EXECUTION OF THIS MANUAL. THESE INSTRUCTIONS ARE INTENDED TO DESCRIBE THE SEQUENCE AND PROPER PLACEMENT OF PARTS. THEY ARE NOT INTENDED TO PRESCRIBE COMPREHENSIVE SAFETY PROCEDURES. THE PROCEDURES IN THIS MANUAL ARE BELIEVED TO BE RELIABLE. HOWEVER, MBS SHALL NOT BE RESPONSIBLE FOR INJURY, DAMAGE, OR FAILURE DUE TO THE MISAPPLICATION OF THESE PROCEDURES, IMPROPER ERECTION TECHNIQUES, OR NEGLIGENCE

WALKING AND WORKING ON ROOF PANELS
DO NOT PLACE BUNDLES OF PANELS ON THE ROOF STRUCTURE WITHOUT FIRST VERIFYING THE STRUCTURE WILL SAFELY SUPPORT THE CONCENTRATED WEIGHT OF THE PANELS AND THE WEIGHT OF THE INSTALLATION CREW. SOME ROOF STRUCTURES MAY NOT BE DESIGNED TO SUPPORT THE WEIGHT OF A FULL PANEL BUNDLE WITHOUT ADDITIONAL STRUCTURE SUPPORT.

DO NOT USE A ROOF PANEL AS A WORKING PLATFORM. AN UNSECURED PANEL COULD COLLAPSE UNDER THE WEIGHT OF A PERSON STANDING BETWEEN PURLINS OR AT THE PANEL END.

DO NOT WALK ON THE LAST INSTALLED PANEL RUN, AS THE UNSECURED EDGE COULD COLLAPSE UNDER A PERSON'S WEIGHT. WHEN INSTALLING CLIPS OR MAKING END LAP CONNECTIONS, ETC., STAND WHERE THE ROOF STRUCTURAL WILL SUPPORT YOUR WEIGHT.

AN APPROVED AND SAFE WALKING PLATFORM SHOULD BE USED IN HIGH TRAFFIC AREAS TO PREVENT THE ROOF PANEL FROM BEING DEFORMED, SCRATCHED, OR SCUFFED.

SAFETY EQUIPMENT
THE USE OF SAFETY EQUIPMENT FOR THE ROOF PANEL INSTALLATION IS RECOMMENDED AT ALL TIMES DURING THE INSTALLATION PROCESS. HOWEVER, WHEN USING LANYARDS, ENSURE THAT THE CLASP, BELT HOOKS AND WIRE CABLES ARE COVERED IN SUCH A MANNER THAT THEY WILL NOT SCRATCH THE PANEL SURFACE IF ACCIDENTALLY DRAGGED ALONG THE PANEL.

CREW SIZE
THE LENGTH OF THE INDIVIDUAL ROOF PANELS SHOULD BE CONSIDERED WHEN DETERMINING CREW SIZE. IT IS RECOMMENDED THAT UNDER NORMAL CONDITIONS, THERE BE ONE PERSON FOR EVERY TEN FEET OF PANEL LENGTH, PLUS ONE.

PANEL OVERHANG
DO NOT STAND ON THE END OF UNSUPPORTED (CANTILEVERED) PANELS AT THE EAVE OR RIDGE. STANDING ON THE CANTILEVER PORTION MAY RESULT IN PANEL COLLAPSE.

POINT LOADS
WHEN PROPERLY SUPPORTED BY THE STRUCTURAL STEEL, PANELS ARE DESIGNED TO SUPPORT UNIFORM LOADS, WHICH ARE EVENLY DISTRIBUTED OVER THE PANEL SURFACES. POINT LOADS THAT OCCUR IN SMALL OR CONCENTRATED AREAS, SUCH AS HEAVY EQUIPMENT, LADDER, OR PLATFORM FEET, ETC., MAY CAUSE PANEL DEFORMATION OR EVEN PANEL COLLAPSE.

SLICK SURFACES
PANEL SURFACES AND STRUCTURAL STEEL SURFACES ARE HARD, SMOOTH, AND NONABSORBENT, WHICH CAUSES THESE SURFACES TO BE VERY SLICK WHEN WET OR COVERED WITH SNOW OR ICE. EVEN BLOWING SAND OR HEAVY DUST CAN MAKE THESE SURFACES DIFFICULT TO WALK ON WITHOUT SLIPPING.

UNPAINTED PANEL SURFACES ARE OFTEN COATED WITH OIL TO ACCOMMODATE THE PANEL-FABRICATION PROCESS. ALTHOUGH DESIGNED TO WASH AWAY OR EVAPORATE DURING NORMAL WEATHER, THE OIL ON NEW PANELS CAN BE EXTREMELY SLICK, ESPECIALLY DURING PERIODS OF LIGHT RAIN AND DEW.
CAUTION MUST BE EXERCISED TO PREVENT SLIPPING AND FALLING ONTO THE ROOF SURFACE OR EVEN SLIDING OFF THE ROOF. NON-SLIP FOOTWEAR IS A NECESSITY AND NON-SLIP WORKING PLATFORMS ARE RECOMMENDED.

ELECTRICAL CONDUCTANCE
METAL PANELS ARE EXCELLENT ELECTRICAL CONDUCTORS. A COMMON CAUSE OF INJURY IS THE CONTACT OF METAL PANELS WITH POWER LINES DURING HANDLING AND INSTALLATION. THE LOCATION OF ALL POWER LINES MUST BE NOTED AND, IF POSSIBLE, FLAGGED. THE INSTALLATION PROCESS MUST BE ROUTED TO AVOID ACCIDENTAL CONTACT WITH ALL POWER LINES AND HIGH VOLTAGE SERVICES AND EQUIPMENT. ALL TOOLS AND POWER CORDS MUST BE PROPERLY INSULATED AND GROUNDED AND THE USE OF APPROVED GROUND FAULT CIRCUIT BREAKERS IS RECOMMENDED.

FALSE SECURITY OF INSULATION
BLANKET AND RIGID BOARD INSULATION BLOCK THE INSTALLER'S VIEW OF THE GROUND BELOW THE ROOF. SERIOUS INJURY CAN OCCUR WHEN THE INSTALLER GETS A FALSE SENSE OF SECURITY BECAUSE HE CANNOT SEE THE GROUND AND STEPS THROUGH THE INSULATION.

SHARP EDGES
SOME EDGES OR PANELS AND FLASHING ARE RAZOR SHARP AND CAN CAUSE SEVERE CUTS IF PROPER PROTECTIVE HAND GEAR IS NOT WORN. BE CAREFUL NOT TO INJURE OTHERS WHILE MOVING PANELS AND FLASHING.

COORDINATION WITH OTHER TRADES
SUPPORTS FOR THE ROOF SYSTEM SHALL BE PROVIDED AND ARE REQUIRED AS SHOWN IN THE SECTIONS AND AS NOTED IN THESE SPECIFICATIONS. ALL NECESSARY CLEARANCE DIMENSIONS FOR PROPER ELEVATIONS RELATIVE TO THE ROOF PANELS HAVE BEEN SHOWN. THE ERECTOR SHALL BE RESPONSIBLE FOR COORDINATING THESE DIMENSIONAL REQUIREMENTS WITH OTHER TRADES ASSOCIATED WITH THE BUILDING ROOF SYSTEM.

ERECTION CARE
THE ERECTOR MUST BE SKILLED IN THE ERECTION OF METAL BUILDING SYSTEMS AND IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LOCAL, FEDERAL AND STATE CONSTRUCTION AND SAFETY REGULATIONS INCLUDING OSHA REGULATIONS AS WELL AS ANY APPLICABLE REQUIREMENTS OF LOCAL, NATIONAL OR INTERNATIONAL UNION RULES OR PRACTICES. THE ERECTOR REMAINS SOLELY RESPONSIBLE FOR THE SAFETY AND APPROPRIATENESS OF ALL TECHNIQUES AND METHODS UTILIZED BY ITS CREWS IN THE ERECTION OF THE METAL BUILDING SYSTEM AND/OR THE ROOF SYSTEM. THE ERECTOR IS ALSO RESPONSIBLE FOR SUPPLYING ANY SAFETY DEVICES SUCH AS SCAFFOLDS, RUNWAYS, NETS, ETC. WHICH MAY BE REQUIRED TO SAFELY ERECT THE METAL BUILDING SYSTEM AND/OR ROOF SYSTEM.

THE ERECTOR OF THE ROOF SYSTEM SHALL EXERCISE GREAT CARE AND ATTENTION TO THE DETAILS AS SHOWN ON THESE DRAWINGS TO INSURE A SECURE AND PROPER FIT OF ALL COMPONENTS. MBS SHALL NOT BE RESPONSIBLE FOR SUPERVISING AND/OR COORDINATING THE ERECTION OF THE ROOF SYSTEM WITH OTHER TRADES.

DUE CONSIDERATION MUST BE GIVEN BY THE ERECTOR TO THE EFFECTS OF THERMAL EXPANSION AND CONTRACTION WHEN ERECTING A ROOF TIE-IN TO AN EXISTING STRUCTURE TO INSURE A SAFE, SECURE, WEATHERTIGHT CONDITION. FLASHING FOR TIE-INS TO EXISTING BUILDINGS IS TYPICALLY NOT INCLUDED AS PART OF THE MATERIAL PROVIDED BY MBS. REFER TO THE SECTIONS/DETAILS FOR SPECIFIC MATERIALS PROVIDED BY MBS.

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE FOR ALL INSPECTIONS

THERMAL BLOCKS

PURPOSE
THERMAL BLOCKS ARE USED IN BOTH INSULATED AND UN-INSULATED CONDITIONS. THEY PROVIDE IMPROVED THERMAL PERFORMACNE WERE INSULATION HAS BEEN COMPRESSED AT THE SECONDARY MEMBERS UNDER THE PANEL. THEY ALSO PROVIDE SUPPORT TO THE PANEL AND REDUCE PANEL FUTTERING AND RUMBLE IN UN-INSULATED CONDITIONS. UN-INSULATED CONDITIONS UTILIZE THERMAL BLOCKS OR FOAM SPACERS THAT HAVE ADHESIVE TO ADHEAR TO THE SECONDARY MEMBER TO PREVENT THEM FROM FALLING OUT OF PLACE..

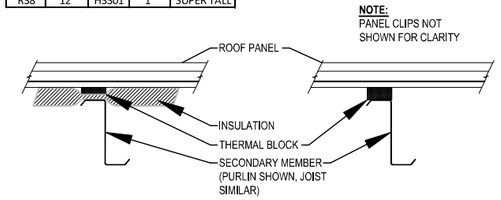
LOCATIONS
THERMAL BLOCKS OR FOAM SPACERS ARE TO BE USED OVER ANY SECONDARY MEMBER WITH THE EXCEPTION OF THE EAVE MEMBER WHRE THE EAVE PLATE IS LOCATED.

INSULATED ROOF

INSULATION		BLOCK		
R_	THICK	MK #	THCK	CLIP
R7	2"	N/A	N/A	SHORT
R10	3 3/8"	N/A	N/A	SHORT
R11	3 3/4"	N/A	N/A	SHORT
R13	4 3/8"	N/A	N/A	SHORT
R13	4 3/8"	H3303	1 1/2"	TALL
R16	5 1/4"	H3301	1"	TALL
R19	6 3/8"	H3301	1"	TALL
R25	8"	H3301	1"	TALL
R30	9 1/4"	H3301	1"	SUPER TALL
R32	10"	H3301	1"	SUPER TALL
R35	11 1/2"	H3301	1"	SUPER TALL
R38	12"	H3301	1"	SUPER TALL

UN-INSULATED ROOF

BLOCK		
MK #	THCK	CLIP
H3310	1/2"	SHORT
H3305	1 1/2"	TALL
H3307	2 1/2"	SUPER TALL



NOTE:
PANEL CLIPS NOT SHOWN FOR CLARITY

ROOF SYSTEM COMPONENT WITH DETAILING

DEFINITION
COMPONENTS WITH DETAILING DEFINITION IS A CASE WHERE MBS IS PROVIDING THE ROOF SYSTEM TO BE USED IN CONJUNCTION WITH ANOTHER STRUCTURE. MBS REFERS TO THAT AS A "COMPONENTS WITH DETAILING." THIS SIMPLY MEANS THAT MBS SHALL CALCULATE THE QUANTITIES AND LENGTHS FOR THE MATERIAL REQUIRED. MBS IS PERFORMING NO ENGINEERING STUDY OF THE EXISTING STRUCTURE. THE ENGINEER OF RECORD ON THE PROJECT SHALL BE RESPONSIBLE FOR COORDINATING THE ROOF SYSTEM WITH THE OTHER TRADES OF THE PROJECT TO INSURE A SAFE, QUALITY AND PROPER APPLICATION OF THE ROOF SYSTEM.

DIAPHRAGM
THE ROOF IS DESIGNED TO ACCOMMODATE THERMAL EXPANSION AND CONTRACTION AND WILL NOT ACT AS A DIAPHRAGM FOR RESISTING LATERAL LOAD FORCES OR PROVIDING LATERAL STABILITY TO THE ROOF STRUCTURAL MEMBERS. DUE CONSIDERATION FOR THIS MUST BE ADDRESSED BY THE PROJECT ENGINEER OF RECORD. IN ADDITION, THE ROOF SYSTEM, BECAUSE IT IS DESIGNED TO FLOAT, WILL NOT SUPPORT STRUCTURAL MEMBERS LATERALLY. WHEN REPLACING AN EXISTING SCREWDOWN ROOF, ADDITIONAL BRACING MAY BE REQUIRED TO LATERALLY SUPPORT THE MEMBERS. ENGINEERING AND MATERIAL FOR THESE USES SHALL NOT BE PROVIDED BY MBS.

BUILDING & PANEL PREPARATION

STEP 1: PLUMB AND SQUARE
THE FIRST STEP IN THE SUCCESSFUL INSTALLATION OF WALL PANELS IS TO HAVE THE PRIMARY FRAMING PLUMB AND SQUARE. FOR BEST RESULTS, IT IS RECOMMENDED THAT A TRANSIT BE USED WHEN ERECTING THE STRUCTURAL STEEL. MAKE SURE THAT THE FOUNDATION AND BUILDING STRUCTURE IS SQUARE, LEVEL, AND CORRECT TO THE OUT-TO-OUT STEEL LINE DIMENSIONS.
SEE FIGURE "A"

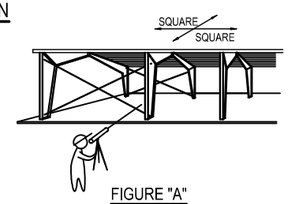


FIGURE "A"

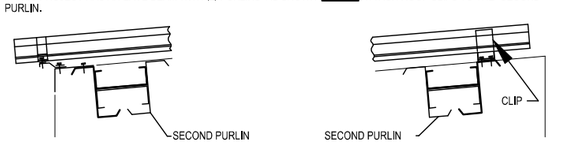
FIELD CUTTING PANELS

WHEN FIELD CUTTING OR MITERING WALL PANELS, NON-ABRASIVE CUTTING TOOLS SUCH AS NIBBLERS OR TIN-SNIPS SHALL BE USED. ABRASIVE CUTTING TOOLS SUCH AS MECHANICAL GRINDERS OR POWER SAWS CAN DAMAGE THE MATERIAL FINISH AND CREATE EXCESS METAL SHAVINGS THAT CAN CORRODE THE PANELS. THE USE OF NON-APPROVED CUTTING DEVICES MAY VOID THE FACTORY WARRANTY.

ANY METAL SHAVINGS THAT ARE CREATED NEED TO BE CLEANED FROM THE PANEL TO PREVENT SCRATCHING AND/OR CORROSION. THE MANUFACTURER WILL NOT ACCEPT CLAIMS FOR DAMAGE/DETERIORATION DUE TO USE OF UNAPPROVED TOOLS.

SPECIAL CONDITION AT A STRONG-BACK EAVE BEAM

IF THIS PROJECT HAS AN EAVE BEAM WITH (2) PURLINS, AS SHOWN, DO NOT ATTACH ROOF CLIPS TO THE "SECOND" PURLIN.



FASTENER INSTALLATION

RECOMMENDED TOOL TYPES: SEE ALSO FASTENER SCHEDULE
4 AMP OR HIGHER RATED TOOLS (DO NOT USE IMPACTING TOOLS)
2000 - 2500 RPM SCREW GUN WITH TORQUE ADJUSTABLE CLUTCH
MANUAL OR ELECTRIC RIVET TOOL

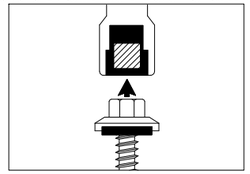
DO NOT USE IMPACTING TOOLS
TO ASSURE PROPER VOLTAGE TO THE TOOL, EXTENSION CORDS SHOULD BE CHECKED FOR PROPER WIRE SIZE/CHORD LENGTH.
16 GAGE WIRE, MAXIMUM CHORD LENGTH = 100'
14 GAGE WIRE, MAXIMUM CHORD LENGTH = 200'
12 GAGE WIRE, MAXIMUM CHORD LENGTH = 300'

DRIVING TIPS:
SET THE NUT DRIVER AS DESCRIBED BELOW PRIOR TO INSTALLING FASTENERS TO PREVENT FASTENER WOBBLE..

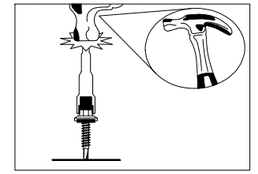
SOCKET EXTENSIONS (4" OR 6") ARE RECOMMENDED TO BE USED FOR INSTALLING PANEL CLIP FASTENERS TO MAINTAIN VERTICAL FASTENER INSTALLATION.

EXCESSIVE PRESSURE CAN CAUSE DRILL POINT FAILURE. LET THE FASTENER DO THE WORK.

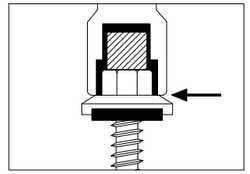
DO NOT OVER TIGHTEN FASTENERS AS THIS WILL LEAD TO PANEL DIMPLING AND DISTORTION.



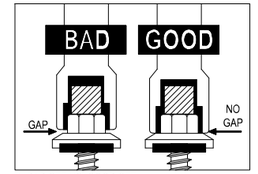
1. PUT THE TOP OF THE FASTENER INTO THE NUT DRIVER. NOTE: FOR PAINTED FASTENERS, PLACE A SINGLE OR DOUBLED LAYER OF PLASTIC BETWEEN THE FASTENER HEAD AND THE NUT DRIVER.



2. PLACE THE POINT OF THE FASTENER ONTO A HARD SURFACE AND FIRMLY HIT THE TOP OF THE NUT DRIVER 2-3 TIMES.



3. THE BASE OF THE NUT DRIVER SHOULD NOW BE CONTACTING THE TOP OF THE HEAD OF THE FASTENER WITH NO GAPS.



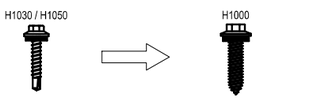
4. BAD SET VS. GOOD SET.

SEALING MATERIAL COMPRESSED UNDER CAP OF FASTENER.

SEALING MATERIAL VISIBLE UNDER CAP OF FASTENER.

SEALING MATERIAL COMPRESSED BUT DIMPLED THE PANEL / TRIM.

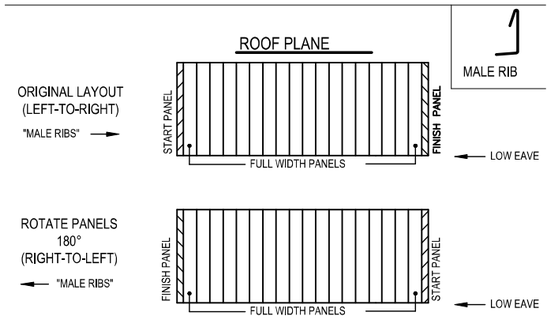
STRIP A FASTENER?
IF YOU STRIP H1030 OR H1050 REPLACE IT WITH H1000
IF YOU STRIP H1000 IN ENDLAP YOU MUST REBUILD THE ENDLAP



ROOF SHEETING DIRECTION

1.) THE ROOF SHEETING PLAN IS SHOWN WITH THE ROOF PANELS BEING ERECTED FROM "LEFT-TO-RIGHT". IF THE DESIRE IS TO ERECT THE ROOF PANELS FROM "LEFT-TO-RIGHT", FOLLOW THE ROOF SHEETING PLAN AS SHOWN. IF THE DESIRE IS TO ERECT THE ROOF PANELS FROM "RIGHT-TO-LEFT", FOLLOW THE INSTRUCTIONS SHOWN BELOW.

2.) WHEN SETTING BUNDLES OF PANELS ON THE ROOF, THE "MALE RIB" MUST ALWAYS BE AWAY FROM THE END OF THE BUILDING WHERE THE SHEETING WILL BEGIN.



SS360 GENERAL NOTES

GENERAL ROOF PANEL NOTES

ISSUE	DWN	CHK	ENG	PE	DATE
ANCHOR BOLTS FOR CONST	MBS	CAY	MFM	MO	11/01/2022
FOR BUILD DEPT. REVIEW	MBS	CAY	MFM		11/03/2022

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PROJECT NAME: TF FIRE TRAINING-PO
430 VICTORY ROAD, TWIN FALLS, ID 83301
CUSTOMER NAME: STARR CORPORATION
TWIN FALLS, ID 83303
JOB NUMBER: N22J0683A
SHEET TITLE

PROFESSIONAL ENGINEER LICENSED 13897 STATE OF IDAHO MASAKI ORIKURA 11/03/2022

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SHEET D8 of 9

BASIC INSTALLATION SEQUENCE

THE FOLLOWING STEPS OUTLINE THE BASIC INSTALLATION OF THE ROOF SYSTEM. REFERENCE THE SPECIFIC DETAILS WITHIN THIS ERECTION DRAWING SET FOR CONDITIONS SPECIFIC TO THIS PROJECT.

START PANEL PREPARATION
THE ROOF SYSTEM IS DESIGNED TO BE ELEVATED AND FLOAT ABOVE THE ROOF SUPPORT MEMBERS. BEGIN AT THE LOWER RAKE CORNER BY INSTALLING THE EAVE PLATE. (REFERENCE EAVE PLATE INSTALLATION BELOW)

AFTER EAVE PLATE HAS BEEN INSTALLED, STITCH THE FIRST ROLL OF ROOF INSULATION FROM RIDGE / HIGH EAVE TO LOW EAVE.

INSTALL THE RAKE CLIPS AND RAKE ANGLE TO SUPPORT / SECURE THE START PANEL. (REFERENCE RAKE ANGLE / RAKE CLIP PREPARATION TO THE RIGHT)

FIELD CUT AND INSTALL START PANEL
THE START PANEL IS SUPPLIED AS A FULL SHEET AND WILL NEED TO BE CUT. REFER TO THE ROOF SHEETING PLAN FOR START / FINISH DIMENSIONS AND RAKE DETAILS TO DETERMINE PROPER PANEL CUT. INSTALL THE START PANEL (LOW EAVE PANEL FIRST IF PANEL RUN IS LONG ENOUGH TO REQUIRE ENDLAPS) BY SECURING THE PANEL TO THE EAVE PLATE AND RAKE ANGLE. (REFERENCE LOW EAVE AND RAKE DETAILS). INSTALL PANEL CLIPS ON LEADING EDGE OF PANEL AS SHOWN IN THE PANEL CLIP DETAIL. CONTINUE TO INSTALL UPSLOPE START PANEL IF ENDLAPS ARE REQUIRED. REFERENCE THE BACKUP PLATE DETAIL AND ENDLAP DETAIL FOR ATTACHMENT OF START PANEL(S) AT RAKE ANGLE.

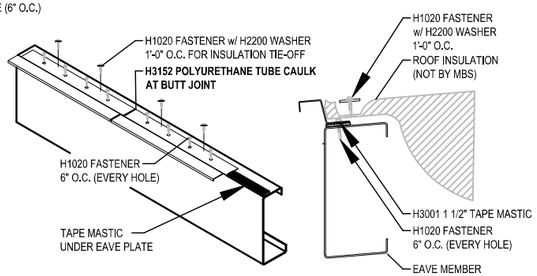
INTERMEDIATE PANEL & MODULARITY
THE INTERMEDIATE PANELS (FULL PANELS) SHOULD BE INSTALLED BY ROLLING THE PANEL INTO PLACE ENSURING THE SEAM IS FULLY ENGAGED. SECURE THE PANELS WITH PANEL CLIPS AND THE LOW EAVE ACROSS THE ROOF. IT IS RECOMMENDED TO INSTALL THE OUTSIDE CLOSURE AT THE HIGH EAVE / RIDGE AS THE ROOF PROGRESSES. THIS WILL HELP MAINTAIN MODULARITY. (REFERENCE HIGH EAVE / RIDGE DETAILS)

FINISH PANEL
THE FINISH PANEL IS SIMILAR TO THE START PANEL INSTALLATION. THE RAKE ANGLE CLIPS AND RAKE ANGLE NEEDS TO BE INSTALLED ON TOP OF THE INSULATION PRIOR TO INSTALLING THE FINISH PANEL. THE FINISH PANEL SHOULD BE FIELD CUT AND ROLLED INTO PLACE AND SECURED TO THE RAKE ANGLE SIMILAR TO THE START PANEL.

TRIM INSTALLATION
TRIM INSTALLATION CAN BE DONE AFTER THE ROOF PANELS ALL HAVE BEEN INSTALLED OR CAN BE INSTALLED AS ENOUGH PANELS HAVE BEEN INSTALLED FOR ATTACHMENT OF TRIMS. (REFERENCE TRIM DETAILS)

EAVE PLATE INSTALLATION

PLACE TAPE MASTIC ON TO OF EAVE MEMBER PRIOR TO INSTALLING EAVE PLATE. INSTALL EAVE PLATE BY FASTENING EVERY HOLE TO EAVE MEMBER (6" O.C.) PRIOR TO INSULATION BEING INSTALLED. SECURE INSULATION WITH FASTENER & INSULATION RETAINER WASHER. NOTE: IF NO ROOF INSULATION IS USED SECURE EAVE PLATE IN EVERY HOLE (6" O.C.)

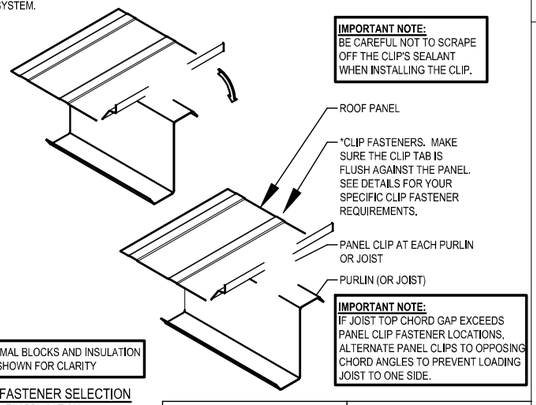


NOTE: H1020/H1070 (PURLIN/JOIST) FASTENER w/ H2200 WASHER
1'-0" O.C. FOR INSULATION TIE-OFF PROVIDED AT HIGH SIDE / RIDGE

SHORT EAVE PLATE		TALL EAVE PLATE		SUPPER TALL EAVE PLATE	
EPS108	BASIC EAVE / GUTTER	EPT108	BASIC EAVE / GUTTER	EPX108	BASIC EAVE / GUTTER

PANEL CLIP INSTALLATION

BEFORE INSTALLING THE PANEL CLIP, FEEL FOR THE SUPPORT MEMBER BELOW THE INSULATION. ALIGN CLIP CENTERED OVER THE SUPPORT MEMBER AND ROLL CLIP OVER THE MALE HOOK OF THE PANEL. FASTEN CLIP WITH FASTENERS AS SPECIFIED IN THE DETAILS BASED ON THE SUPPORT MEMBER AND INSULATION UTILIZED FOR THE ROOF SYSTEM.



CLIP FASTENER SELECTION

R-Boost™ APPLICATION
SEE DETAIL FA2010

PURLIN APPLICATION
H1020 FOR INSULATION ≤R-19 (6 3/8")
H1025 FOR INSULATION >R-19 (6 3/8") AND ≤R-38 (12")

JOIST APPLICATION
H1070 FOR INSULATION ≤R-19 (6 3/8")
H1075 FOR INSULATION >R-19 (6 3/8") AND ≤R-38 (12")

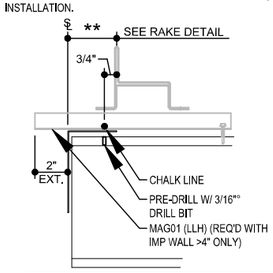
STANDARD CLIPS		PERIMETER CLIPS	
PART #	PART DESCRIPTION	PART #	PART DESCRIPTION

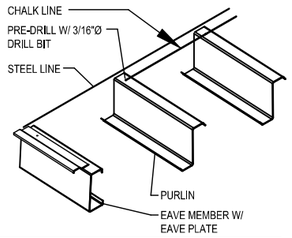
RAKE ANGLE / RAKE CLIP PREPARATION

PRIOR TO INSTALLING THE ROOF INSULATION THE SECONDARY MEMBER WILL NEED TO BE PRE-DRILLED FOR THE RAKE CLIPS. PRE-DRILLING WILL MAKE INSTALLATION OF THE RAKE AND CLIPS MUCH EASIER AFTER INSULATION IS IN PLACE. DO NOT INSTALL RAKE CLIPS UNTIL INSULATION (IF REQUIRED) IS INSTALLED. **RAKE CLIP IS INSTALLED ON TOP OF THE INSULATION.**

SNAP A CHALK LINE AS SHOWN BELOW FROM HIGH EAVE / RIDGE TO LOW EAVE. DRILL 3/16" ØØ HOLE CENTERED ON SECONDARY MEMBER. THIS IS HELPS TO ALIGN THE START PANEL.

NOTE: IMP WALL PANEL >4" THICK REQUIRE ANGLES ON TOP OF SECONDARY MEMBER EXTENDED BEYOND STEEL LINE TO ALLOW FOR RAKE CLIP ATTACHMENT. ATTACH WITH (1) H1020 / H1070 TO PURLIN / JOIST PRIOR TO RAKE CLIP INSTALLATION.





RAKE ANGLE / RAKE CLIP INSTALLATION

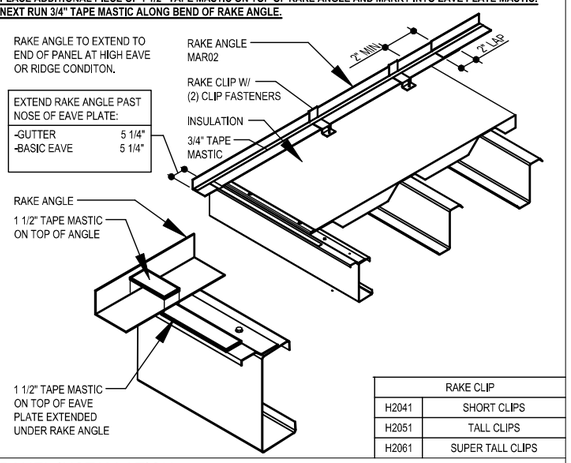
AFTER INSULATION IS IN PLACE AND PRIOR TO INSTALLING THE RAKE CLIPS AND RAKE ANGLE APPLY 1 1/2" TAPE MASTIC ON TOP OF THE EAVE PLATE BUT ONLY REMOVE PAPER BACKING WHERE THE RAKE ANGLE WILL REST. THIS WILL SEAL BETWEEN THE EAVE PLATE AND THE RAKE ANGLE.

SLIDE RAKE CLIPS ONTO RAKE ANGLE PRIOR TO SECURING THE RAKE CLIPS TO THE SECONDARY MEMBERS. PLACE THE RAKE CLIPS AND ANGLE OVER THE INSULATION USING A SMALL DRIFT PIN TO LOCATE THE PRE-DRILLED HOLE. INSTALL FASTENER THROUGH OPPOSITE CLIP HOLE INTO SECONDARY MEMBER. REMOVE DRIFT PIN AND INSTALL SECOND FASTENER TO SECURE CLIP. NOTE: (2) SCREWS ARE REQUIRED IN EVERY CLIP. DO NOT CUT INSULATION OUT FROM AROUND THE CLIP.

PLACE ADDITIONAL PIECE OF 1 1/2" TAPE MASTIC ON TOP OF RAKE ANGLE AND MARRY INTO EAVE PLATE MASTIC. NEXT RUN 3/4" TAPE MASTIC ALONG BEND OF RAKE ANGLE.

RAKE ANGLE TO EXTEND TO END OF PANEL AT HIGH EAVE OR RIDGE CONDITON.

EXTEND RAKE ANGLE PAST NOSE OF EAVE PLATE:	
-GUTTER	5 1/4"
-BASIC EAVE	5 1/4"

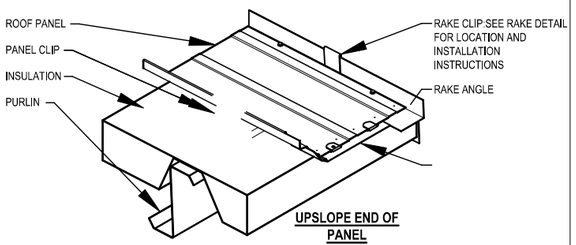


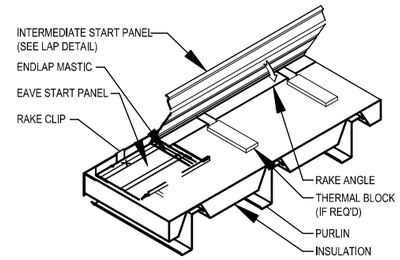
RAKE CLIP	
H2041	SHORT CLIPS
H2051	TALL CLIPS
H2061	SUPER TALL CLIPS

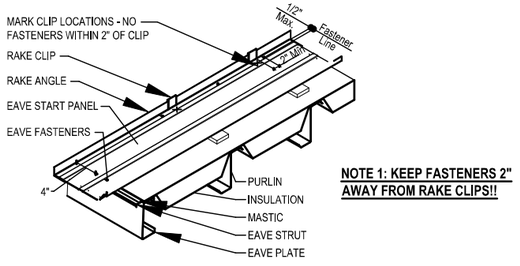
PANEL INSTALLATION

BACKUP PLATE INSTALLATION

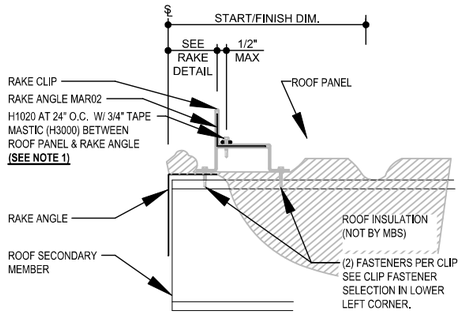
THE BACKUP PLATE PROVIDES SUPPORT AT THE ENDLAP AND HIGH SIDE OF THE PANEL TO ALLOW FOR COMPRESSION OF SEALANTS. THE BACK UP PLATE HAS NOTCHES THAT SLIDE ONTO THE PANEL TO LOCATE AND HOLD THE BACKUP PLATE IN PLACE. AT THE RAKE CONDITION, THE BACKUP PLATE IS TO BE FIELD CUT FLUSH WITH THE HORIZONTAL LEG OF THE RAKE ANGLE. DO NOT EXTEND BACKUP PLATE ON TOP OF RAKE ANGLE.



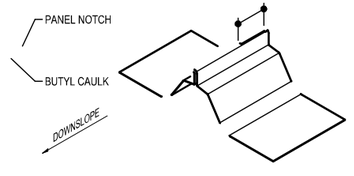




NOTE 1: KEEP FASTENERS 2" AWAY FROM RAKE CLIPS!!



PANEL HIGH EAVE PREPARATION



OUTSIDE CLOSURE MASTIC INSTALLATION

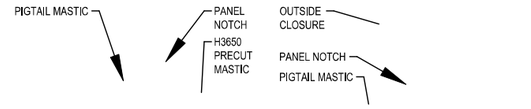
STEP 1: APPLY THE PRECUT MASTIC ACROSS THE PANEL WITH THE BOTTOM OF THE MASTIC IN LINE WITH THE NOTCH. PRESS THE MASTIC INTO THE CORNERS OF THE TRAPEZOID TO ENSURE THERE ARE NO GAPS. CUT A 2" PIECE OF THE PRECUT MASTIC TO PLACE A PIGTAIL AROUND THE PANEL RIB WHERE THE NOTCH IS LOCATED. FOLD PIGTAIL AS SHOWN AND PRESS INTO VOID UNDER SEAM. MARRY PIGTAIL TO PRECUT AND SEAL END OF PANEL SEAM.

STEP 2: ALIGN THE OUTSIDE CLOSURE WITH THE NOTCH AND SEAT INTO THE PRECUT MASTIC. ATTACH THE OUTSIDE CLOSURE THROUGH THE PREPUNCHED HOLES THROUGH THE PANEL AND INTO THE BACKUP PLATE.

STEP 3: INSTALL FASTENER THROUGH RIB INTO ADJACENT OUTSIDE CLOSURE TO DRAW THEM TOGETHER.

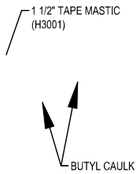
STEP 4: PRIOR TO INSTALLING TRIM, APPLY BUTYL CAULK DOWN PROFILE OF TRAPEZOID AND 1" MIN ONTO PANEL FLAT. ALSO APPLY BUTYL CAULK FULL LENGTH OF NOTCH AND ACROSS JOINT OF ADJACENT OUTSIDE CLOSURES. ROLL OUT TAPE MASTIC ACROSS TOP OF OUTSIDE CLOSURES FOR TRIM SEALANT.

NOTE: OUTSIDE CLOSURE CANNOT BE INSTALLED IN THE START / FINISH PANEL UNTIL THE RAKE TRIM IS INSTALLED.



STEP 1

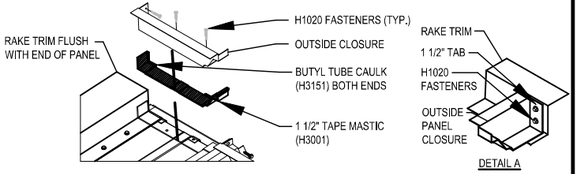
STEP 2



STEP 3

STEP 4

OUTSIDE CLOSURE AT START / FINSH PANEL: CUT CLOSURE TO LENGTH LEAVING AN EXTRA 1 1/2" TO FORM A TAB THAT WILL SEAL TO BACK OF RAKE TRIM. PRE-DRILL THIS TAB TO ACCEPT FASTENER.



VOID CLOSURE INSTALLATION

IT IS CRITICAL TO ENSURE THAT THE TAPE MASTIC OVER THE CLOSURE DOES NOT LEAVE GAPS AT THE CORNERS AND THAT THE BUTYL CAULK IN PANEL RIB JOINS THE TAPE MASTIC OVER THE CLOSURE.

MK. H3640

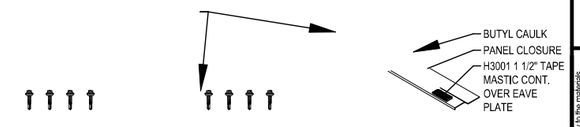
STEP 1: APPLY MASTIC TO TOP SIDE OF CLOSURE. DO NOT REMOVE PAPER BACKING. EXTEND MASTIC 1/2" BEYOND CLOSURE AND COMPRESS TO SINGLE THICK

STEP 2: LIFT PANEL RIB AND POSITION CLOSURE UNDER THE MAIL RIB AND INSTALL FASTENER THROUGH PREPUNCH HOLE.

CITY APPROVED PLANS
Reviewed for Code Compliance
PLANS MUST BE ON JOB SITE FOR ALL INSPECTIONS

STEP 3: REMOVE PAPER BACKING FROM MASTIC AND PRESS PANEL FIRMLY INTO PLACE.

STEP 4: APPLY BUTYL CAULK TO INSIDE FACE AND TOP OF SEAM OVER CLOSURE.



SS360 BASIC INSTALLATION DETAIL

BASIC PANEL INSTALLATION INSTRUCTIONS
SEE ROOFLINE TRIM DETAILS FOR FURTHER INFORMATION

FA6011

ISSUE	DWN	CHK	ENG	PE	DATE
ANCHOR BOLTS FOR CONST	MBS	CAY	MFM	MO	11/01/2022
FOR BUILD DEPT. REVIEW	MBS	CAY	MFM		11/03/2022

AMERICAN BUILDINGS a NUCOR brand
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PROFESSIONAL ENGINEER LICENSED 13897 STATE OF IDAHO MASAAKI ORIKURA
11/03/2022

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SHEET: D9 of 9