RVTD MOBILITY TRAINING CENTER

LEGEND AND SYMBOLS

- DRAWING TITLE — INDICATES DRAWING NUMBER, NAME & SCALE
- DRAWING NUMBER
- DRAWING NAME
- DRAWING SCALE
- ELEVATION REFERENCE — REFER TO INDICATED DRAWING (1 / A101 / 1)
- SHEET WHERE SHOWN
- DRAWING NUMBER
- SIMILAR TO REFERENCE
- DETAIL REFERENCE — REFER TO INDICATED DRAWING (SIM / 1 / A101)
- DETAIL DESIGNATION
- SHEET WHERE SHOWN
- BUILDING SECTION REFERENCE (WALL SECTIONS UNFILLED ARROW) — INDICATES DIRECTION & POINT WHERE SECTION IS TAKEN
- SIMILAR TO REFERENCE
- DRAWING DESIGNATION
- SHEET WHERE SHOWN
- COLUMN GRID SYMBOL — COLUMN GRID LINE DESIGNATION (0)
- GRID NUMBER
- NORTH ARROW — INDICATES PROJECT NORTH
- PROJECT NORTH
- TRUE NORTH (TRUE)
- REVISION CLOUD
- REVISION NUMBER — 'DELTA' OCCURS AT EACH CHANGE
- REVISED AREA
- REVISION NUMBER
- KEYNOTE SYMBOL — SEE KEYNOTE LISTING (?)
- KEYNOTE NUMBER
- ROOM NAME/NUMBER SYMBOL — SEE FLOOR PLANS (ROOM NAME / 101 / 150 SF)
- ROOM NAME
- ROOM NUMBER
- ROOM AREA
- WALL TAG — SEE BUILDING ASSEMBLIES (10A-AFT)
- ASSEMBLY NUMBER
- MODIFIERS
- STUD SIZE
- DOOR TAG — SEE DOOR SCHEDULE (101)
- DOOR NUMBER
- WINDOW TAG — SEE WINDOW SCHEDULE (1t)
- WINDOW NUMBER
- CURTAIN WALL / STOREFRONT TAG — SEE CURTAIN WALL / STOREFRONT SCHEDULE (1i)
- CURTAIN WALL / STOREFRONT NUMBER
- CEILING TAG — SEE REFLECTED CEILING PLAN & BUILDING ASSEMBLIES (1t / 1' - 0" AFF)
- CEILING ASSEMBLY NUMBER
- INSTALLATION HEIGHT
- ROOF TAG — SEE ROOF PLAN & BUILDING ASSEMBLIES (Rx)
- ROOF ASSEMBLY NUMBER
- FINISH PLAN SYMBOL — OCCURS ON FINISH PLAN (100 / XXXXX / X / X/X / X)
- WEST WALL FINISH
- NORTH WALL FINISH
- ROOM NUMBER
- ROOM ABBREVIATION
- EAST WALL FINISH
- CEILING FINISH
- FLOOR FINISH & BASE
- SOUTH WALL FINISH
- EGRESS EXIT LIGHT — OCCURS ON EGRESS PLAN
- ILLUMINATED ARROW
- BRACKET WALL MOUNT
- FLUSH WALL MOUNT
- ILLUMINATION DIRECTION

SCALE: 3" = 1'-0" (0' 3" 6" 9" 1' 1'-4")
SCALE: 1 1/2" = 1'-0" (0' 6" 1' 2' 2'-8")
SCALE: 1/4" = 1'-0" (0' 2' 4' 8' 16')
SCALE: 1/8" = 1'-0" (0' 4' 8' 16' 32')

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LANDSCAPE

NAME
ADDRESS
MEDFORD, OR 97501

CONTACT: NAME
TITLE

PHONE:
FAX:
EMAIL:

MECHANICAL

NAME COLEBREIT ENGINEERING
ADDRESS 721 SW INDUSTRIAL WAY #110
BEND, OR 97702

CONTACT: BILL CARON
PE, DBIA

PHONE: 541-728-3293
FAX:
EMAIL: BILLCARON@COLEBREIT.COM

ELECTRICAL

NAME COLEBREIT ENGINEERING
ADDRESS 721 SW INDUSTRIAL WAY #110
BEND, OR 97702

CONTACT: BILL CARON
PE, DBIA

PHONE: 541-728-3293
FAX:
EMAIL: BILLCARON@COLEBREIT.COM

PLUMBING

NAME COLEBREIT ENGINEERING
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BEND, OR 97702

CONTACT: BILL CARON
PE, DBIA

PHONE: 541-728-3293
FAX:
EMAIL: BILLCARON@COLEBREIT.COM

GENERAL CONTRACTOR

TBD

OWNER

NAME RVTD
ADDRESS 3200 CRATER LAKE AVENUE
MEDFORD, OR 97504

CONTACT: PAIGE WEST
STRATEGIC PROGRAMS MANAGER

PHONE: 541-608-2429
FAX:
EMAIL: PWEST@RVTD.ORG

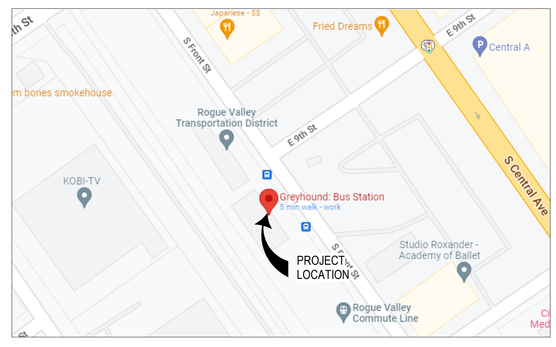
ARCHITECT

ORW ARCHITECTURE
29 S. GRAPE ST
MEDFORD, OREGON 97501

ARCHITECT OF RECORD
DAVID WILKERSON
DAVID@ORWARCH.COM

CONTACT: RYAN BURKE
PROJECT MANAGER
PHONE: 541.779.5237 x 12
FAX: 541.772.8472
EMAIL: RYAN@ORWARCH.COM

VICINITY MAP



PROJECT INFORMATION

LOCATION: - 220 S FRONT ST, MEDFORD, OR 97501
MAP & TAX LOT: - 371W30BC
BUILDING FOOTPRINT: - 2100.56 SF
FIRST FLOOR: - N/A
MEZZANINE: - N/A
BUILDING TYPE: - B
DESIGN CRITERIA FOR CITY OF MEDFORD:
ROOF SNOW LOAD: 25 LBS./SQ. FT. BELOW 2000' ELEVATION
WIND SPEED: 94.5 MPH.

CODES

2019 OREGON STRUCTURAL SPECIALTY CODE (OSSC)
2021 OREGON ENERGY EFFICIENCY SPECIALITY CODE (OZERCC)
2021 OREGON ELECTRICAL SPECIALTY CODE (OESC)
2021 OREGON MECHANICAL SPECIALTY CODE (OMSC)
2021 OREGON PLUMBING SPECIALTY CODE (OPSC)
NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
NFPA 72 NATIONAL FIRE ALARM AND SIIGNALING CODE

GENERAL NOTES

1. DO NOT SCALE DRAWINGS, CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING SITE DIMENSIONS. IF DISCREPANCIES ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION.
2. UNLESS SHOWN OTHERWISE, ALL DAMAGE CAUSED BY NEW WORK TO EXISTING AREAS OF THE SITE, CONSTRUCTION, FINISH CONSTRUCTION, ELECTRICAL OR MECHANICAL SYSTEMS SHALL BE REPAIRED TO MATCH EXISTING CONDITIONS OR AS FOUND PRIOR TO ANY DAMAGE.
3. ALL WORK SHALL BE IN ACCORDANCE WITH THE FIRE AND LIFE SAFETY CODES.
4. THE CONTRACTOR SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK AND SITE ACCESSIBILITY. THE CONTRACTOR IS REMINDED THAT THE PROJECT DRAWINGS INDICATE THE CONDITIONS AT THE SITE AS IT EXISTED. DEVIATIONS ENCOUNTERED DURING THE WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING STRUCTURES AT THE WORK AREA FROM WEATHER AND OTHER INCLEMENT CONDITIONS. ANY DAMAGE INCURRED DUE TO THE FAILURE BY THE CONTRACTOR TO PROPERLY PROTECT SUCH WORK SHALL BE REPAIRED AT CONTRACTOR EXPENSE.
6. THE CONTRACTOR SHALL DISPOSE OF ALL REMOVED AND /OR DEMOLISHED MATERIAL. WASTE & DEBRIS CAUSED BY THE NEW WORK. THIS MATERIAL SHALL BE REMOVED FROM THE PROPERTY AND TAKEN TO A LEGALLY-OPERATED DISPOSAL SITE.
7. ALL CONSTRUCTION TECHNIQUES, MATERIALS, AND FINISHES SHALL BE AS REQUIRED BY THE APPROPRIATE CODE AUTHORITIES. INSTALLATION SHALL FOLLOW THE MANUFACTURERS PUBLISHED SPECIFICATIONS AND/OR TRADE STANDARDS IN ADDITION TO MEETING OR EXCEEDING THE DESIGN STANDARDS.
8. ALL WEATHER EXPOSED SURFACES SHALL HAVE A WEATHER RESISTIVE BARRIER TO PROTECT THE INTERIOR WALL COVERING AND THE EXTERIOR OPENINGS SHALL BE FLASHED IN SUCH A MANNER AS TO MAKE THEM WATERPROOF.
9. ALL DIMENSIONS FROM FACE OF FRAMING UNLESS NOTED OTHERWISE.

ABBREVIATIONS

ACT	ACOUSTIC CEILING TILE
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AL	ALIGN
ALT	ALTERNATE
BD	BOARD
BLDG	BUILDING
BM	BEAM
BO	BOTTOM OF
BOS	BOTTOM OF STRUCTURE
BS	BACKSPLASH
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CJ	CONTROL JOINT
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONT	CONTINUOUS
CORR	CORRIDOR
CPT	CARPET
CTSK	COUNTERSUNK
CW	CURTAIN WALL
D-B	DESIGN BUILD
DBL	DOUBLE
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIMS	DIMENSIONS
DP	DISABLED PERSON
DW	DISHWASHER
EA	EACH
EJ	EXPANSION JOINT
ELECT	ELECTRICAL
EQ	EQUAL(Y)
EX	EXISTING
EXT	EXTERIOR
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR / FINISHED FACE
FIN	FINISH(ED)
FMG	FRAMING
FOM	FACE OF MASONRY
FOS	FACE OF STUD/ STRUCTURE
FR	FIRE RESISTANT
FRM	FRAMING
FRP	FIBER-REINFORCED PLASTIC
FRZR	FREEZER
FTG	FOOTING
GA	GYPSUM ASSOCIATION
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GWB	GYPSUM WALL BOARD
HC	HANDICAP
HDBD	HARDBOARD
HDR	HEADER
HDWD	HARDWOOD
HGT	HEIGHT
HR	HOUR
HVAC	HEATING/VENTILATING/AIR CONDITIONING
HW	HOT WATER
INSUL	INSULATION
INT	INTERIOR
LPG	LIQUID PROPANE GAS
MAX	MAXIMUM
MDL	MODEL
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
MW	MICROWAVE
MWRGWB	MOLD & WATER RESISTANT GYPSUM WALL BOARD
NIC	NOT IN CONTRACT
OC	ON CENTER
OCC	OCCUPANCY
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OPNG	OPENING
OVHG	OVERHANG
PC	PAINT COLOR
PLAM	PLASTIC LAMINATED
PSF	POUNDS PER SQUARE FOOT
PT	PAINT
PTW	PRESSURE TREATED WOOD
PWC	PLASTIC WALL COVERING
PWD	PLYWOOD
PWP	PLASTIC WALL PANEL
RB	RUBBER BASE
RD	ROOF DRAIN
REF	REFRIGERATOR
RM	ROOM
RO	ROUGH OPENING
RSF	RESILIENT SHEET FLOORING
SEP	SEPARATION
SF	STOREFRONT
SHTG	SHEATHING
SIM	SIMILAR
SM	SHEET METAL
SPECS	SPECIFICATIONS
SQFT	SQUARE FEET
SS	STAINLESS STEEL
STL	STEEL
STRUCT	STRUCTURAL/STRUCTURE
TO	TOP OF
TS	TUBE STEEL
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
UTIL	UTILITY
V-1HR	TYPE 5, 1 HOUR
V-NR	TYPE 5, NON-RATED
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VWC	VINYL WALL COVERING
WBG	WALL BUMPER GUARD
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE
WP	WATER PROOF
WRGB	WEATHER RESISTANT GYPSUM BOARD

SHEET INDEX

● ARCHITECTURAL - SD

A00.00	TITLE SHEET AND DRAWING INDEX
A00.10	CODE ANALYSIS & EGRESS DIAGRAM
A02.10	DEMOLITION FLOOR PLAN - LEVEL 01
A02.30	DEMOLITION REFLECTED CEILING PLAN - LEVEL 01
A03.10	FLOOR PLAN - LEVEL 01
A05.10	REFLECTED CEILING PLAN - LEVEL 01
A07.00	BUILDING ELEVATIONS
A07.01	BUILDING ELEVATIONS
A08.00	BUILDING SECTIONS
A09.00	WALL SECTIONS

DEFERRED SUBMITTALS

FIRE SPRINKLERS
FIRE ALARM

DESIGN-BUILD INFORMATION

ORW ARCHITECTURE
WWW.ORWARCHITECTURE.COM
29 S. GRAPE STREET
MEDFORD OR 97501
P 541.779.5237

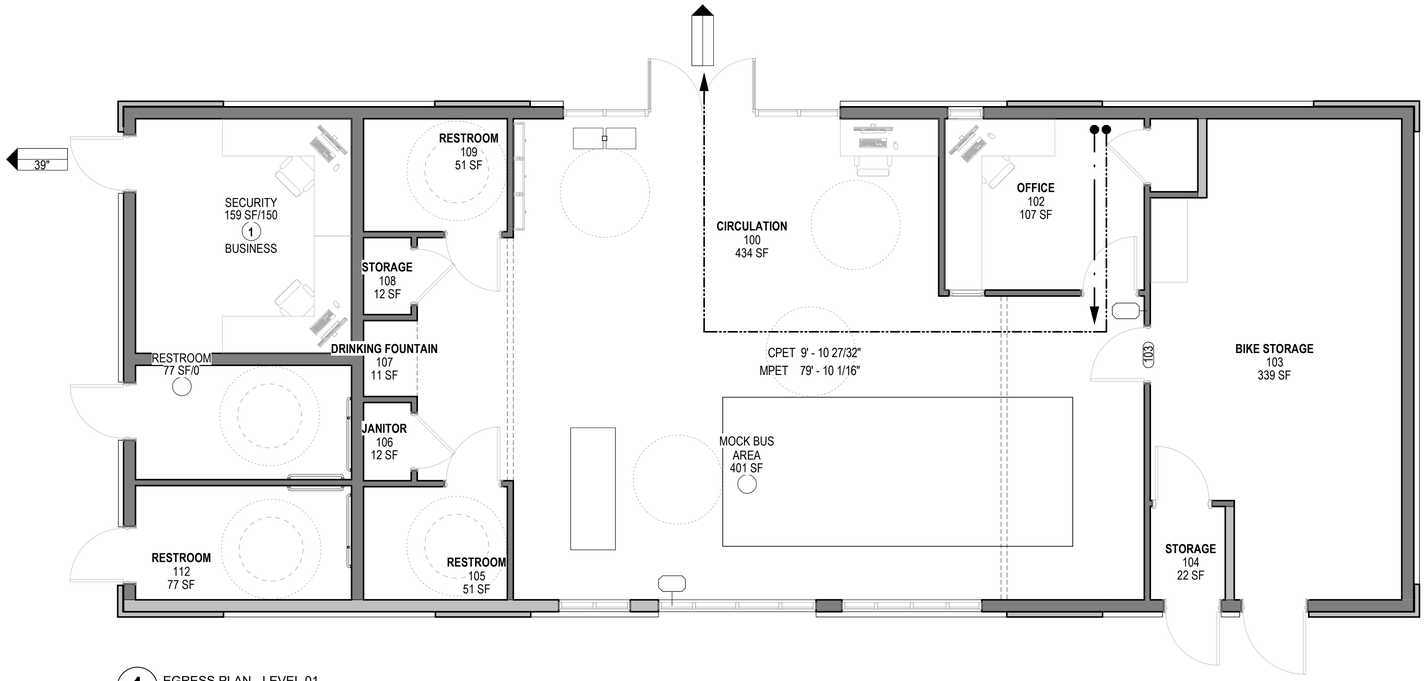
FOR REFERENCE ONLY

RVTD MOBILITY TRAINING CENTER
FRONT STREET
CLIENT NAME
MAP: LOT:
TITLE SHEET AND DRAWING INDEX

PROJECT	2229-02
DATE	10/27/2022

No.	Description	Date

A00.00



1 EGRESS PLAN - LEVEL 01
1/4" = 1'-0"

PLUMBING FIXTURE CALCULATIONS TABLE 2902.1

	AREA	OCC. GRP	OCC. LOAD	WC		UR	LAVATORIES		SHOWERS	
				M	F		M	F	M/F	
BUSINESS - ASSEMBLY AREA	XX SQFT	X	X							
BUSINESS	XX SQFT	X	X	X	X	X	X	X	X	REQUIRED
TOTAL		X	X	X	X	X	X	X	X	PROVIDED

* URINALS MAY REPLACE WC AT A RATIO OF 1 URINAL TO 2/3 WC. 3 UR = 2 WC

CODE ANALYSIS

ALLOWABLE AREA CALCULATIONS

Allowable Area Calculations (Table 503 and Section 506)

Fire Area or Building:		First
	All Floors	
	Occupancy Type	B
At	Tabular Area	XX
If	Increase due to Frontage (%)	XX
Is	Increase due to Sprinklers (%)	XX
Aa	Allowable Area	XX
If	Increase due to Frontage (%)	XX
P	Perimeter	XX
F	Frontage	XX
W	Width	XX
Maximum Designed Area per Floor		XX SF
Level One		XX SF
Level Two		XX SF
Level Three		XX SF

CODE ANALYSIS WORKSHEET

Code: 2014 Oregon Structural Specialty Code

Occupancy Classification (Chapter 3)
B Business

Occupancy Separations (Table 508.4) or Non-Separated Use (Section 508.3)
NA: Non-Separated Use Building

Construction Type and Fire Sprinkling: (Section 602 & Section 903)
VB: Fully Sprinklered per NFPA 13

Building Height & Number of Stories: (Table 503)
Tabulated 2 stories + 1 Story Increase = Maximum 3 Stories
3 Stories provided = OK
Tabulated Height 40 + 20 foot Increase = Maximum 60 feet
+/- 50 feet provided < 60 feet = OK

Incidental Uses - Separations Per (Table 509)
NA

Corridor Fire Resistance Rating (Table 1018.1 & Section 408.3)
NA Rating not required in fully sprinklered B Occupancy

Fire-Resistance Construction Requirements (Table 601)

Type V-B	Rating
Structural Frame	0
Exterior Bearing Walls	0
Interior Bearing Walls	0
Exterior Non Bearing Walls per Table 602	0
Interior Non Bearing Walls	0
Floor Construction	0
Roof Construction	0

CODE ANALYSIS WORKSHEET

Occupant Load Calculations
Factors as indicated on plans per (Table 1004.1.1)

Common Path of Egress Travel (Section 1014.3)
Group B Occupancy Fully Sprinklered = max 100 feet
See Exiting Diagram on Plan

Maximum Path of Exit Access Travel (Table 1016.2)
Group B Occupancy Fully Sprinklered = max 300 feet
See Exiting Diagram on Plan

Exit or Exit Access Doorway Placement (Section 1015.2.1)
Min of 1/2 of diagonal (1/3 of diagonal for sprinklered bldg)
Separation = 44 ft > 1/3 of 129

Accessible Means of Egress (Section 1007)
Stairways:
Clear width of 48" between handrails is not required per Section 1007.3; Exception 1
Elevator:
Elevator is not required to be an accessible means of egress in buildings of less than 4 stories.

Interior Exit Stairways (Section 10092, 1021 & 1022)
Each Story above the Second Story shall have a minimum of one.
Enclosure Construction shall be 1 hour fire-resistance rated Fire Barrier.
Stair shalll be separated from all levels by 1 hour fire-resistance rating.
Rating shall extend to bottom of roof deck or 1 hour fire-resistance rated roof assembly.

CODE ANALYSIS WORKSHEET

Exit Access Stairways (Section 1009.3 & 1021)
Unenclosed Exit Access Stairway allowed per Exception 1; 1009.3.
No Enclosure required. No construction requirements.
Stair will be separated from Level Three by 1 hour fire-resistance rating.
Rating shall extend from Level Three floor to bottom of roof deck or 1 hour fire-resistance rated roof assembly.

Vertical Openings (Section 712)
Section 712.1.1 - Shaft Enclosure:
Vertical openings contained entirely within a shaft enclosure are permitted.
Section 712.1.12 - Unenclosed Stairs & Ramps:
Vertical floor openings created by unenclosed stairs or ramps in accordance with section 1009.2 & 1009.3 shall be permitted.

Unenclosed Stair (Section 1009.2 & 1009.3)
1009.2: Travel distance is such that Interior Exit Stairways are not required.
1009.3: Exception 1; Exit Access Stairways that atmospherically communicate between only two stories are not required to be enclosed.
Level Three - Top of Stair will be separated from the remainder of the Level by 1 hour fire-resistance rating.
Rating shall extend from Level Three floor to bottom of roof deck or 1 hour fire-resistance rated roof assembly.

CODE ANALYSIS WORKSHEET

Shaft Enclosures (Section 713)
Section 713.4 - Fire-Resistance Rating
Shafts Connecting 3 Stories shall have 1 hour fire-resistance rating.
Shafts shall be constructed as a Fire Barrier per Section 707 & 711.
Enclosure at the bottom: 1 hour fire-resistance rating required.
Enclosure at the top: Rating shall extend to bottom of roof deck or 1 hour fire-resistance rated roof assembly.
Exterior walls of shafts shall be per Section 705: Not rating required.

Elevator Shaft Requirements (Section 713.14)
Shaft shall be constructed in accordance with Shaft Enclosures, Section 713 & Chapter 30.
Section 3004.1 - Vents Required
Hoistway venting is not required per Exception 1.

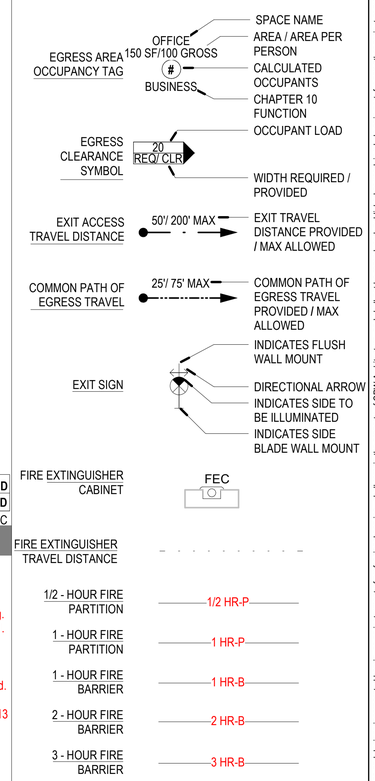
Elevator Lobby Requirements (Section 713.14.1)
Elevator lobby enclosure is not required per Exception 4; Section 713.14.1

Elevator Machine Room (Section 3006.4)
Elevator machine room shall be enclosed with Fire Barriers per Section 707 & Horizontal Assemblies per Section 711.
Fire Barriers and Horizontal Assemblies shall be 1 hour fire-resistance rated.

GENERAL NOTES

1. VERIFY PLACEMENT / NEED FOR:
   - COMMERCIAL:
     - KNOX BOX
   - RESIDENTIAL:
     - SMOKE DETECTOR
     - CO DETECTOR

LEGEND



Special Inspections:

EXCEL WORKSHEET CAN BE FOUND IN JOB FOLDER:
Documents\Design\17b_Building_Codes_Checklist
UPON COMPLETION, LINK EXCEL TO REVIT PROJECT VIA THE ADDIN DIROOTS: TABLE GEN or LINK A PDF.

ORW ARCHITECTURE
WWW.ORWARCHITECTURE.COM
29 S. GRAPE STREET
MEDFORD OR 97501
P 541.779.5237

FOR REFERENCE ONLY

RVTD MOBILITY TRAINING CENTER
FRONT STREET
CLIENT NAME
MAP: LOT:

CODE ANALYSIS & EGRESS DIAGRAM

PROJECT	2229-02
DATE	10/27/2022

No.	Description	Date

A00.10

SCALE: 3" = 1'-0"
SCALE: 1 1/2" = 1'-0"
SCALE: 1/4" = 1'-0"
SCALE: 1/8" = 1'-0"

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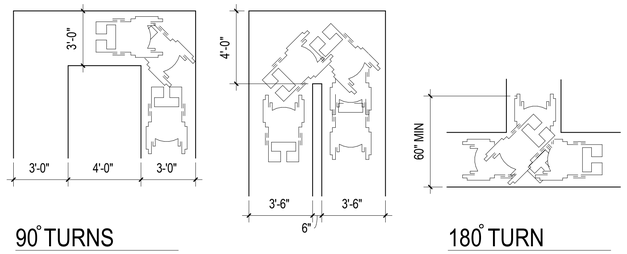
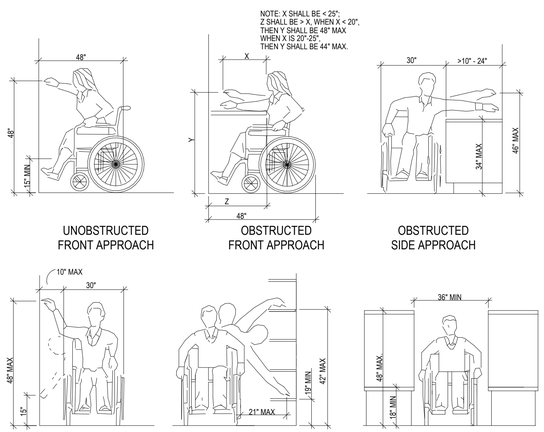
HANDICAP ACCESSIBILITY SHEET



90° TURNS

180° TURN



UNOBSTRUCTED FRONT APPROACH

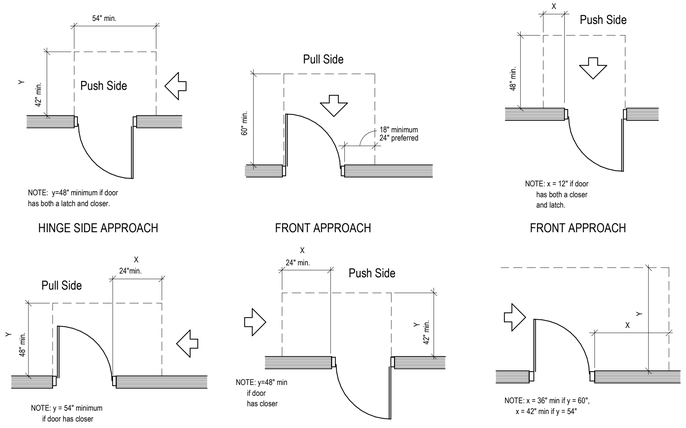
OBSTRUCTED FRONT APPROACH

OBSTRUCTED SIDE APPROACH

UNOBSTRUCTEDSI DE APPROACH

GENERAL REACH DIMENSIONS

NO SCALE



HINGE SIDE APPROACH

FRONT APPROACH

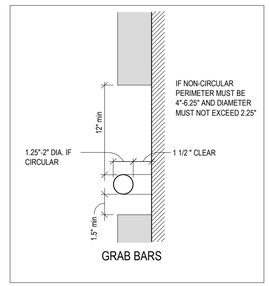
FRONT APPROACH

LATCH SIDE APPROACH

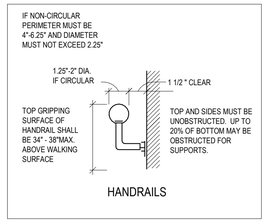
LATCH SIDE APPROACH

HINGE SIDE APPROACH

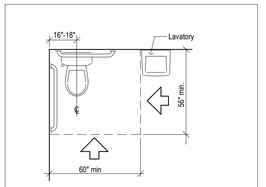
MANEUVERING CLEARANCES AT DOORS



GRAB BARS

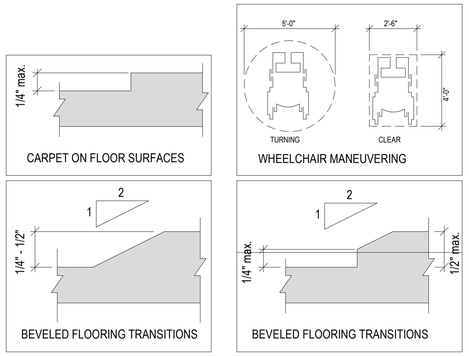


HANDRAILS



ACCESSIBLE SINGLE TOILET

NO SCALE

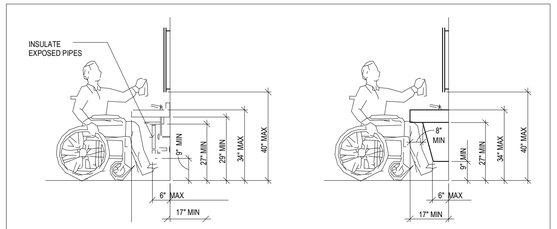


CARPET ON FLOOR SURFACES

WHEELCHAIR MANEUVERING

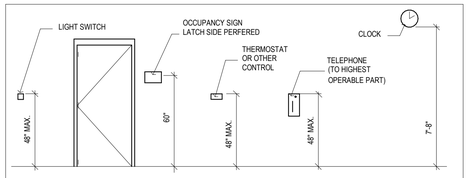
BEVELED FLOORING TRANSITIONS

BEVELED FLOORING TRANSITIONS



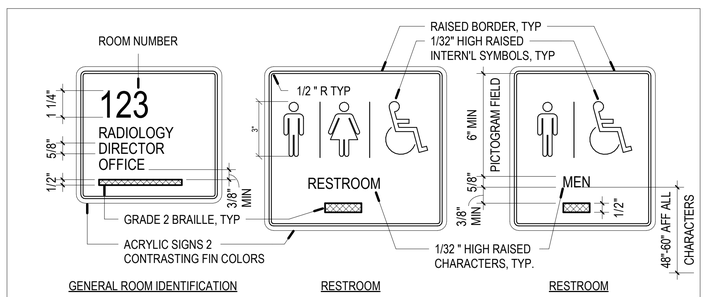
LAVATORY DIMENSIONS

NO SCALE



MOUNTING HEIGHT DIMENSIONS

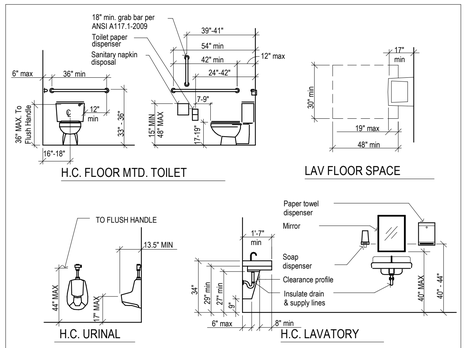
NO SCALE



INTERIOR SIGNAGE

NO SCALE

NOTE: MOUNT ACRYLIC SIGNS W/ DOUBLE SIDED FOAM TAPE



H.C. FLOOR MTD. TOILET

LAV FLOOR SPACE

H.C. URINAL

H.C. LAVATORY

BATHROOM FIXTURES & ACCESSORIES

NO SCALE

SCALE: 3" = 1'-0"

SCALE: 1 1/2" = 1'-0"

SCALE: 1/4" = 1'-0"

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

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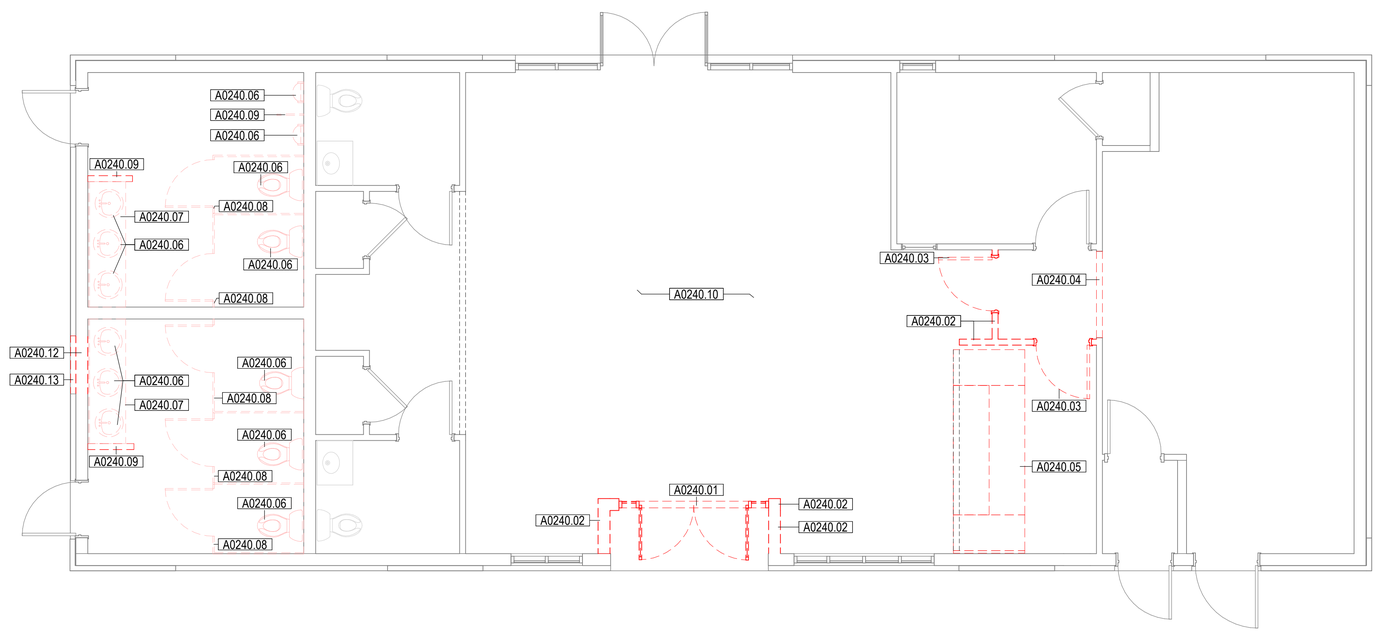
RVTD MOBILITY TRAINING CENTER
FRONT STREET
CLIENT NAME
MAP: LOT:
ACCESSIBILITY DETAILS

PROJECT	2229-02
DATE	10/27/2022

No.	Description	Date

A00.20



1 DEMO FLOOR PLAN - LEVEL 01
1/4" = 1'-0"

GENERAL NOTES

THE CONTRACTOR SHALL:

A. COORDINATE ALL DEMOLITION/PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVES. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS AND TO PROVIDE BUILDING USER'S SAFETY. EXCESSIVE NOISE OR VIBRATIONS SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE.
B. DISCONNECT & CAP UTILITIES AS NEEDED PER CURRENT APPLICABLE CODES.
C. VERIFY ALL EXISTING CONSTRUCTION, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
D. REMOVE, IN THEIR ENTIRETY, ALL EXISTING WALLS, FURRING, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKER BOARDS, ETC. AS REQUIRED TO EXECUTE THE DEMOLITION / CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
E. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ALL MATERIALS - CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO WORK BEING DONE.
F. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
G. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
H. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE, OR AS AUTHORIZED BY THE ARCHITECT.
J. PATCH FLOOR AND CEILING PENETRATIONS RESULTING FROM REMOVAL, OR REROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, ETC. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
K. SALVAGE ALL TOILET ACCESSORIES.
L. CAP ALL DISCONNECT MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR, PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
M. CONTRACTOR SHALL V.I.F. THAT THE AREA BEHIND THE EXISTING WALL IS VACANT OF ALL MECHANICAL, PLUMBING, & ELECTRICAL EQUIPMENT, AND OR STRUCTURAL COLUMNS BEFORE PROCEEDING WITH WALL DEMOLITION. PROMPTLY NOTIFY ARCHITECT IF MEP EQUIPMENT OR STRUCTURAL COLUMNS ARE DISCOVERED.
N. BUSINESS IS TO REMAIN OPERATIONAL DURING REGULAR BUSINESS HOURS.
P. WORK IS TO BE COMPLETED IN ?? PHASES. SEE PLAN
Q. CONTRACTOR TO PROVIDE ANY TEMPORARY ROADS OR CROSSINGS AS REQUIRED FOR EXECUTION OF THE CONTRACT. ALL TEMPORARY CONSTRUCTION SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.
R. ALL EXISTING VEGETATION, SHRUBS, AND TREES TO REMAIN SHALL BE PROTECTED AS REQUIRED TO PREVENT DAMAGE FROM CONSTRUCTION ACTIVITIES. ANY DAMAGED LANDSCAPING SHALL BE REPLACED WITH LIKE PRODUCT AND SIZE AT THE DIRECTION OF THE ARCHITECT/OWNER'S REPRESENTATIVE.
S. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND LANDSCAPE IRRIGATION. CARE SHOULD BE TAKEN TO AVOID DAMAGE TO OR DISTURBANCE OF EXISTING UTILITIES AND IRRIGATION. ALL EXISTING UTILIITIES AND ENCLOSURES SHALL BE PROTECTED AND REMAIN ACCESSIBLE AND SERVICEABLE DURING CONSTRUCTION.

LEGEND

DEMOLISHED

EXISITNG

KEYNOTES

#	NOTE
A0240.01	DEMOLISH (E) STOREFRONT
A0240.02	DEMOLISH (E) WALL
A0240.03	DEMOLISH (E) DOOR, DOOR FRAME AND HARWARE
A0240.04	DEMOLISH (E) OPENING
A0240.05	DEMOLISH (E) TICKET COUNTER
A0240.06	DEMOLISH (E) PLUMBING FIXTURES AND ACCESSORIES
A0240.07	DEMOLISH (E) COUNTER
A0240.08	DEMOLISH (E) TOILET PARTITIONS
A0240.09	DEMOLISH (E) HALF WALL
A0240.10	DEMOLISH (E) VCT FLOORING
A0240.12	DEMOLISH (E) WALL TO CREATE NEW OPENING
A0240.13	DEMOLISH (E) BRICK VENEER TO PROVIDE NEW OPENING

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FRONT STREET
CLIENT NAME
MAP:
LOT:
DEMOLITION FLOOR PLAN - LEVEL 01

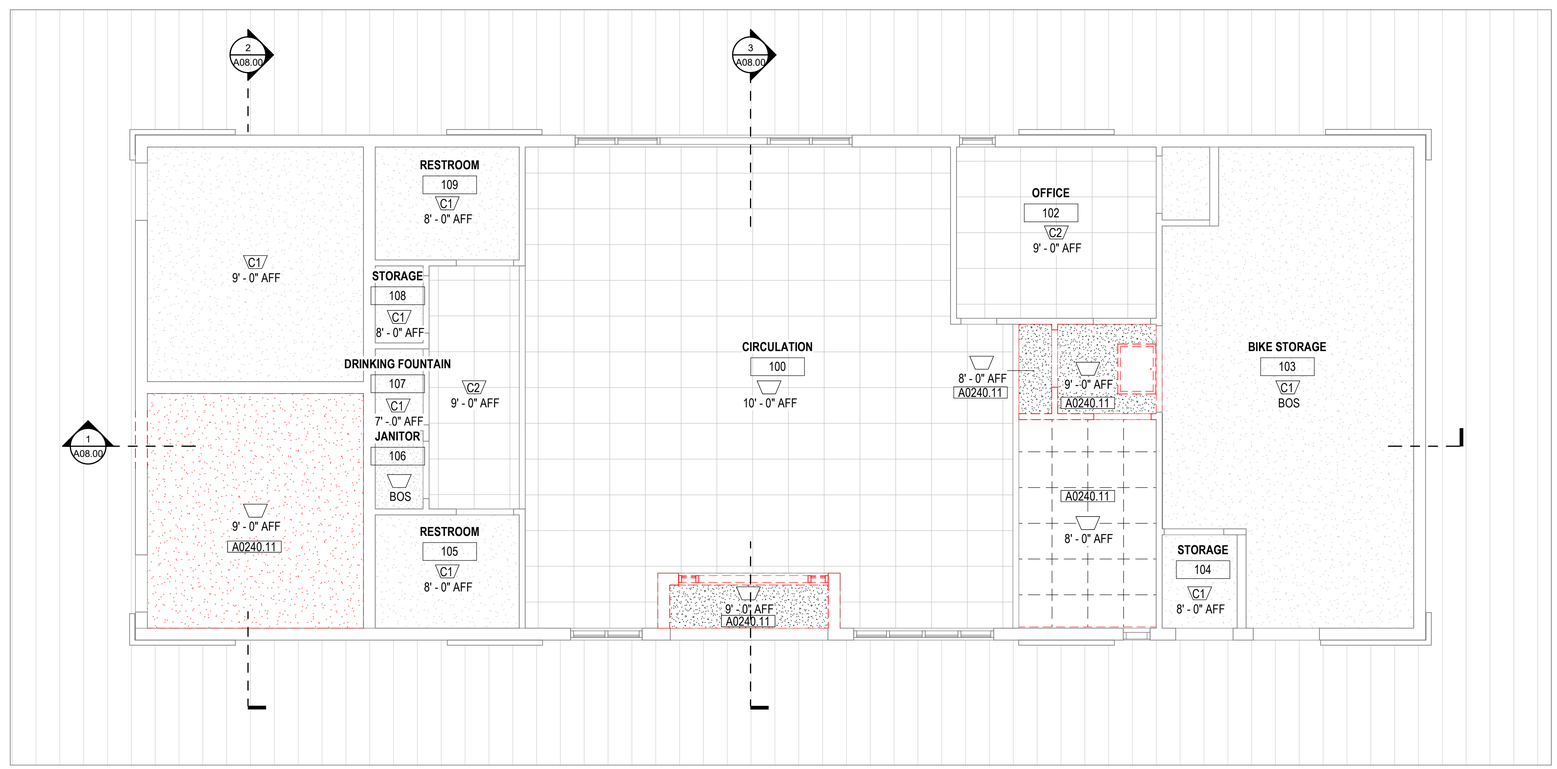
PROJECT	2229-02
DATE	10/27/2022

No.	Description	Date

A02.10

SCALE: 3" = 1'-0"
SCALE: 1 1/2" = 1'-0"
SCALE: 1/4" = 1'-0"
SCALE: 1/8" = 1'-0"

10/27/2022 9:34:38 AM BIM360: ORW Architecture\2229-02 RVTD Mobility\Project Files_Working\03_Arch



1 DEMO REFLECTED CEILING PLAN - LEVEL 01
1/4" = 1'-0"

GENERAL NOTES

THE CONTRACTOR SHALL:

A. COORDINATE ALL DEMOLITION/PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVES. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS AND TO PROVIDE BUILDING USER'S SAFETY. EXCESSIVE NOISE OR VIBRATIONS SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE.
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LEGEND

DEMOLISHED

EXISITNG

KEYNOTES

#	NOTE
A0240.11	DEMOLISH (E) REFLECTED CEILING

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FRONT STREET
CLIENT NAME
MAP: LOT:
DEMOLITION REFLECTED CEILING PLAN - LEVEL 01

PROJECT	2229-02
DATE	10/27/2022

No.	Description	Date

A02.30

SCALE: 3" = 1'-0"
SCALE: 1 1/2" = 1'-0"
SCALE: 1/4" = 1'-0"
SCALE: 1/8" = 1'-0"

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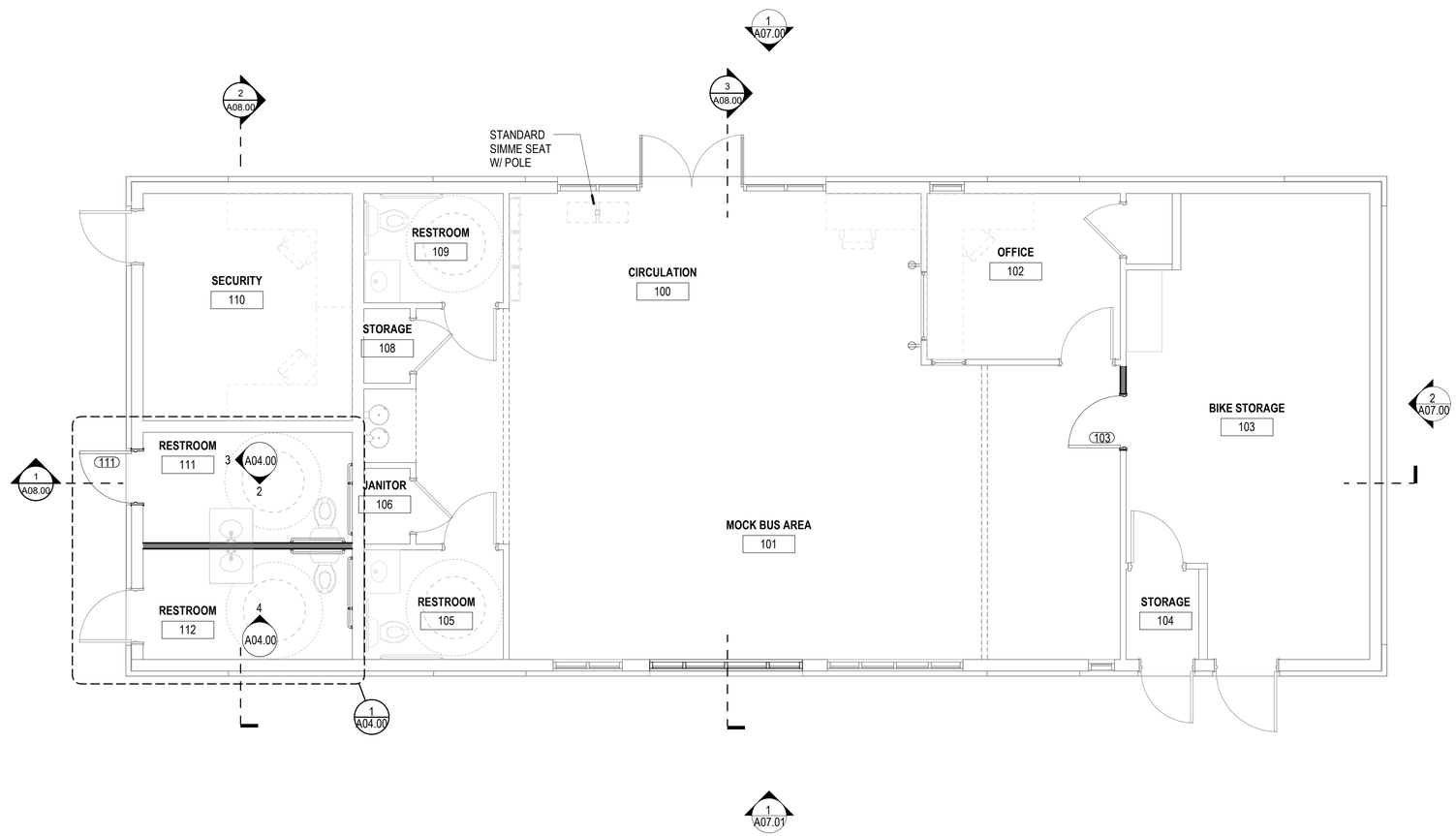

1 FLOOR PLAN - LEVEL 01
1/4" = 1'-0"

GENERAL NOTES

1. -

LEGEND

NEW

EXISTING

5'-0" CIRCLE

5'-7" ADA CIRCLE

KEYNOTES

#	NOTE

SCALE: 3" = 1'-0"

SCALE: 1 1/2" = 1'-0"

SCALE: 1/4" = 1'-0"

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

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RVTD MOBILITY TRAINING CENTER
FRONT STREET
CLIENT NAME
MAP: LOT:
FLOOR PLAN - LEVEL 01

PROJECT	2229-02
DATE	10/27/2022

No.	Description	Date

A03.10

SCALE: 3" = 1'-0"

SCALE: 1 1/2" = 1'-0"

SCALE: 1/4" = 1'-0"

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

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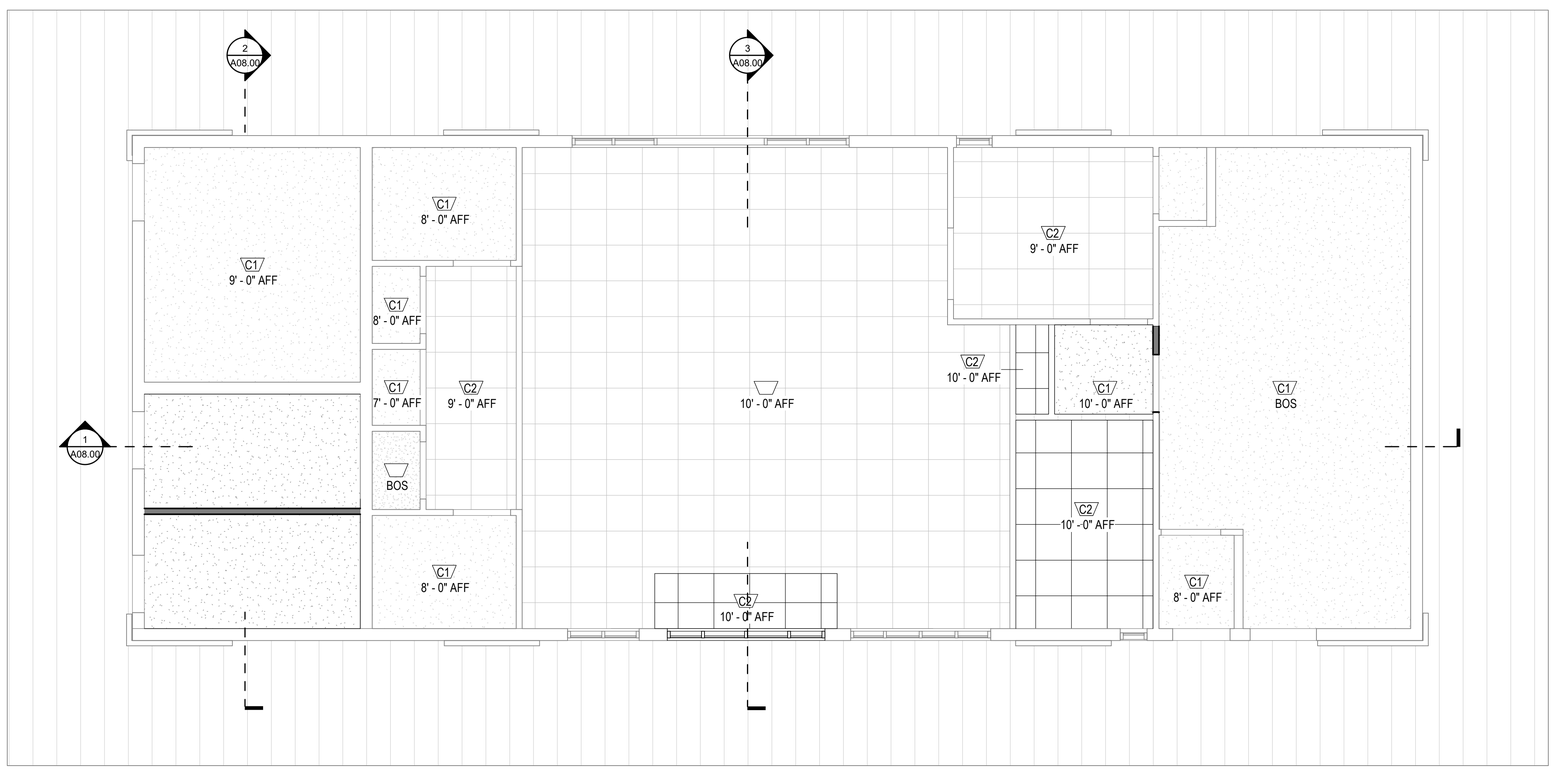

1 REFLECTED CEILING PLAN - LEVEL 01
1/4" = 1'-0"

GENERAL NOTES

1. -

LEGEND

LIGHT FIXTURES, SEE ELEC DWGS

CEILING FANS & GRILLES, SEE MECH DWGS

CEILING TYPES

C1 GYPSUM WALL BOARD

C2 2x2 ACT

4 SOFFIT

KEYNOTES

#	NOTE

ABBREVIATIONS

NOTE: SEE TITLE SHEET FOR ADDITIONAL ABBREVIATIONS

ACT	ACOUSTIC CEILING TILE
GWB	GYPSUM WALL BOARD
MTL	METAL
BOS	BOTTOM OF STRUCTURE

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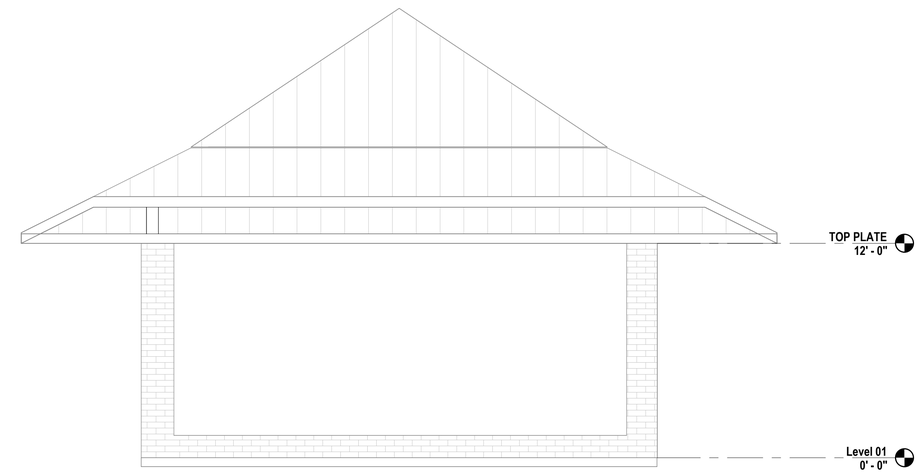
FRONT STREET
CLIENT NAME
MAP: LOT:
REFLECTED CEILING PLAN - LEVEL 01

PROJECT	2229-02
DATE	10/27/2022

No.	Description	Date

A05.10



2 BUILDING ELEVATION - EAST
1/4" = 1'-0"

1 BUILDING ELEVATION - NORTH
1/4" = 1'-0"

GENERAL NOTES

1. -

LEGEND

CMU-1

BR-1

MP-1

OPERABLE DOOR / WINDOW LOCATION

KEYNOTES

#	NOTE

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RVTD MOBILITY TRAINING CENTER
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CLIENT NAME
MAP: LOT:
BUILDING ELEVATIONS

PROJECT	2229-02
DATE	10/27/2022

No.	Description	Date

A07.00

SCALE: 3" = 1'-0"
SCALE: 1 1/2" = 1'-0"
SCALE: 1/4" = 1'-0"
SCALE: 1/8" = 1'-0"

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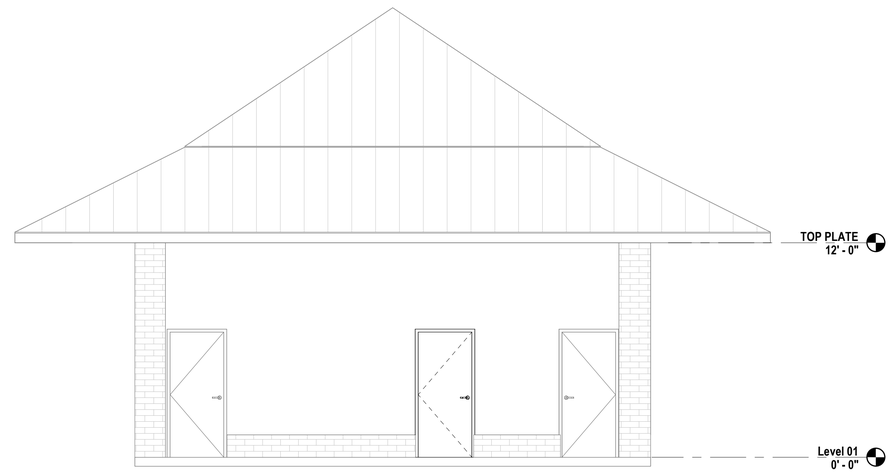

2 BUILDING ELEVATION - WEST
1/4" = 1'-0"

1 BUILDING ELEVATION - SOUTH
1/4" = 1'-0"

GENERAL NOTES

1. -

LEGEND

CMU-1

BR-1

MP-1

OPERABLE DOOR / WINDOW LOCATION

KEYNOTES

#	NOTE

SCALE: 3" = 1'-0"

SCALE: 1 1/2" = 1'-0"

SCALE: 1/4" = 1'-0"

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

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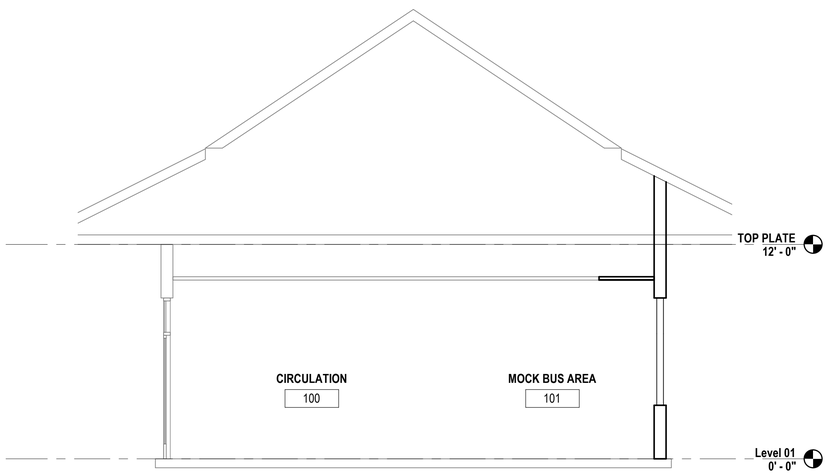
FRONT STREET
CLIENT NAME
MAP: LOT:
BUILDING ELEVATIONS

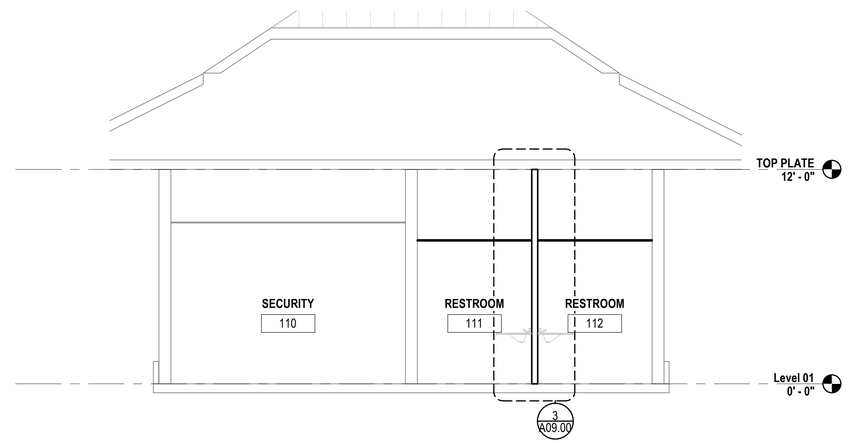
PROJECT	2229-02
DATE	10/27/2022

No.	Description	Date

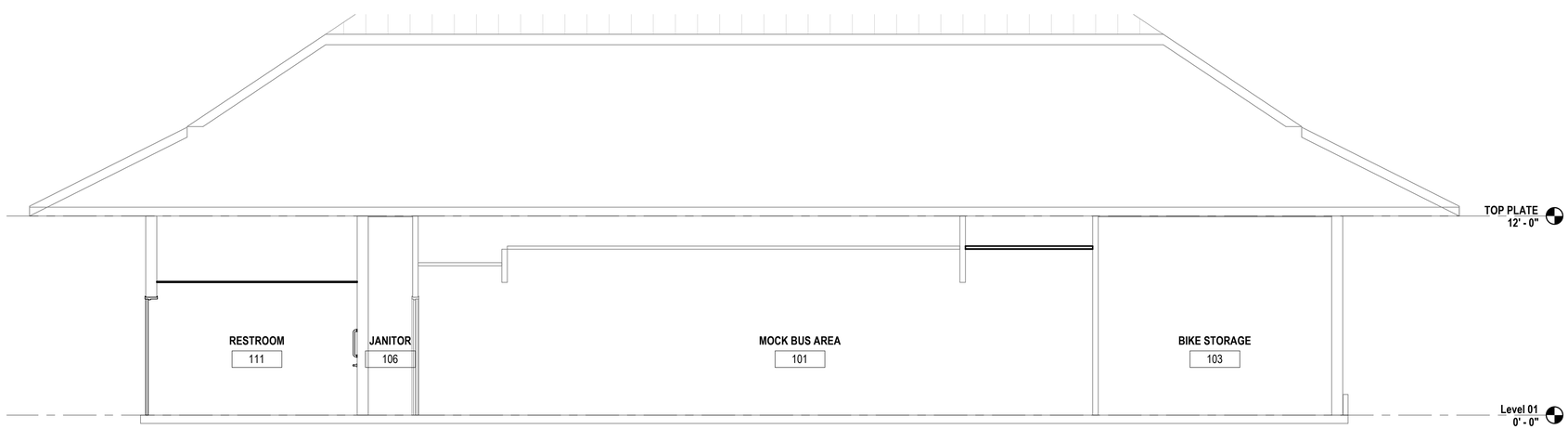
A07.01



3 ACROSS THROUGH MOBILITY CENTER
1/4" = 1'-0"



2 ACROSS THROUGH PUBLIC RESTROOM
1/4" = 1'-0"



1 CROSS THROUGH MOBILITY CENTER
1/4" = 1'-0"

GENERAL NOTES

1. -

LEGEND

CMU-1

BR-1

MP-1

OPERABLE DOOR / WINDOW LOCATION

KEYNOTES

#	NOTE

SCALE: 3" = 1'-0"

SCALE: 1 1/2" = 1'-0"

SCALE: 1/4" = 1'-0"

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

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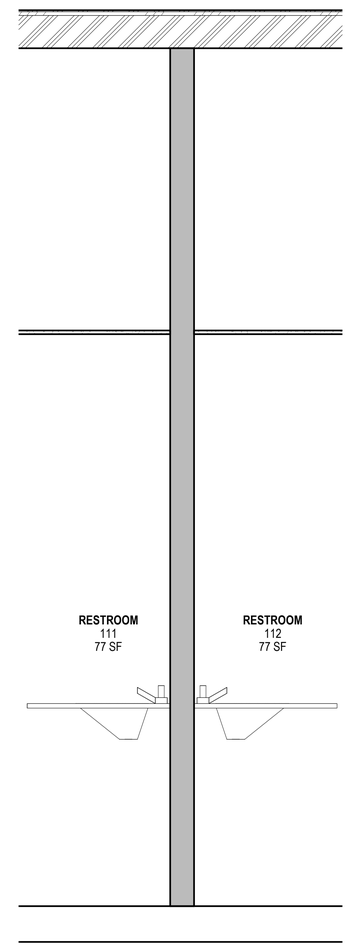
RVTD MOBILITY TRAINING CENTER
FRONT STREET
CLIENT NAME
MAP: LOT:
BUILDING SECTIONS

PROJECT	2229-02
DATE	10/27/2022

No.	Description	Date

A08.00



3 WALL @ RESTROOM
1" = 1'-0"

GENERAL NOTES

1. -

LEGEND

CMU-1

BR-1

MP-1

OPERABLE DOOR / WINDOW LOCATION

KEYNOTES

#	NOTE

SCALE: 3" = 1'-0"

SCALE: 1 1/2" = 1'-0"

SCALE: 1/4" = 1'-0"

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

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RVTD MOBILITY TRAINING CENTER

FRONT STREET
CLIENT NAME
MAP: LOT:

WALL SECTIONS

PROJECT	2229-02
DATE	10/27/2022

No.	Description	Date

A09.00

ELECTRICAL LEGEND

POWER SYMBOLS

SYMBOL	IDENTIFICATION
M	MOTOR CONNECTION
G	GENERATOR CONNECTION
F	FUSED DISCONNECT SWITCH XX/XX/XX = AMP SWITCH/POLES/AMP FUSE
	NON-FUSED DISCONNECT SWITCH XX/XX/XX = AMP SWITCH/POLES/AMP FUSE
J	JUNCTION BOX
J X	C = CEILING MOUNTED
J	JUNCTION BOX; WALL MOUNTED
J	JUNCTION BOX WITH WHIP-STYLE CONNECTION TO POWERED FURNITURE; POWER AND/OR DATA
T	TRANSFORMER; BOTTOM OF T DESIGNATES FRONT SIDE
	PANELBOARD OR TERMINAL CABINET; SURFACE MOUNTED
	PANELBOARD OR TERMINAL CABINET; FLUSH MOUNTED
	GROUND BUS BAR
	TRANSFORMER
	AUTOMATIC TRANSFER SWITCH
	NORMALLY OPEN CONTACT
	NORMALLY CLOSED CONTACT
	DRAWOUT CIRCUIT BREAKER; RATING AS SHOWN ON PLANS
	STATIONARY - CIRCUIT BREAKER; RATING AS SHOWN ON PLANS
	DISCONNECT; RATING AS SHOWN ON PLANS
	SWITCH AND FUSE; RATING AS SHOWN ON PLANS
	INVERTER
	GROUNDING POINT
M	UTILITY METER

LIGHTING SYMBOLS

SYMBOL	IDENTIFICATION
	LUMINAIRE; CEILING OR SURFACE MOUNTED
	LUMINAIRE; WALL MOUNTED
	AREA POLE WITH MOUNTED LUMINAIRE
	LUMINAIRE ON EMERGENCY POWER
	EXIT SIGN; CEILING MOUNTED; ARROWS AND FACES AS SHOWN ON PLANS
	EXIT SIGN; WALL MOUNTED; ARROWS AND FACES AS SHOWN ON PLANS
	EMERGENCY FIXTURE; DUAL LAMP HEAD

WIRING DEVICE SYMBOLS

SYMBOL	IDENTIFICATION
	20A, 125V, DUPLEX RECEPTACLE OUTLET
	20A, 125V, DOUBLE DUPLEX RECEPTACLE OUTLET
	SPECIAL PURPOSE RECEPTACLE OUTLET; RATING AS SHOWN; +18" AFF TP CENTERLINE
	20A, 125V, SINGLE RECEPTACLE OUTLET
X	A = ABOVE COUNTER C = CEILING MOUNTED G = GFCI S = SWITCHED RECEPTACLE T = TAMPER PROOF U = WITH (2) USB PORTS W = WEATHERPROOF COVER AND GFCI +#" = INCHES ABOVE FINISH FLOOR
	20A, 125V, DUPLEX RECEPTACLE OUTLET; FLOOR RECESSED
	20A, 125V, DOUBLE DUPLEX RECEPTACLE OUTLET; FLOOR RECESSED
	2-CHANNEL FLOOR BOX W/ (2) GANG POWER / (2) GANG DATA; PROVIDE 1"C. FROM EACH DATA OUTLET TO ACCESSIBLE CEILING SPACE. BASIS-OF-DESIGN: WIREMOLD 'RFB4'.
C J	COMMERCIAL CORD REEL RECEPTACLE; CEILING MOUNTED
$	SINGLE POLE SWITCH
$ X	3 = THREE WAY SWITCH 4 = FOUR-WAY SWITCH D = DIMMER SWITCH K = KEY OPERATED SWITCH M = MOTOR RATED SWITCH S = DUAL TECH SENSOR SWITCH T = INTERVAL TIMER V = LOW VOLTAGE SWITCH W = SINGLE POLE WEATHERPROOF SWITCH
	PUSH BUTTON SWITCH
OS	OCCUPANCY LIGHT CONTROL SWITCH; CEILING MOUNTED
OS	OCCUPANCY LIGHT CONTROL SWITCH; WALL MOUNTED
OS X	C = DUAL TECH WITH CORRIDOR PATTERN H = DUAL TECH WITH HIGH BAY SENSOR V = DUAL TECH WITH VACANCY SENSOR MODE
PS	PHOTOSENSOR; CEILING MOUNTED
PS X	D = DIMMING S = SWITCHED
EV	ELECTRIC VEHICLE CHARGING STATION
	HORN/STROBE COMBINATION; CEILING MOUNTED
	HORN/STROBE COMBINATION; WALL MOUNTED

ABBREVIATIONS

ABBRV.	IDENTIFICATION
AC	ALTERNATING CURRENT
AFF	ABOVE FINISH FLOOR
AF	FRAME RATING IN AMPERES
AS	SWITCH RATING IN AMPERES
AT	TRIP RATING IN AMPERES
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
C	CONDUIT
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED
CEC	CALIFORNIA ELECTRIC CODE
CL	CENTERLINE
CONN	CONNECTED
DC	DIRECT CURRENT
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
(E)	EXISTING TO REMAIN
ELEV	ELEVATOR
EMT	ELECTRO METALLIC TUBING
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FVNR	FULL-VOLTAGE, NON-REVERSING
FVR	FULL-VOLTAGE, REVERSING
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
IG	ISOLATED GROUND
LRC	LIGHTING RELAY CABINET
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
PH	PHASE
PP	POWER POLE
PTS	PNEUMATIC TUBE STATION
PVC	POLYVINYL CHLORIDE CONDUIT
(R)	RELOCATE EXISTING
RSC	RIGID STEEL CONDUIT
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE POLE, DOUBLE THROW
SPST	SINGLE POLE, SINGLE THROW
TB	TERMINAL BACKBOARD
TC	TERMINAL CABINET
TEL	TELEPHONE
UON	UNLESS OTHERWISE NOTED
VFD	VARIABLE FREQUENCY DRIVE
W	WEATHERPROOF
WAP	WIRELESS ACCESS POINT
W/	WITH
(X)	REMOVE EXISTING
XFMR	TRANSFORMER
XP	EXPLOSION PROOF

CONDUIT SYMBOLS

SYMBOL	IDENTIFICATION
	CONDUIT INSTALLED ABOVE FINISHED FLOOR OR GRADE
	CONDUIT INSTALLED BELOW FINISHED FLOOR OR BELOW GRADE
	INDICATES CONDUIT TURNING UP
	CONDUIT HOMERUN; ROUTE TO PANELBOARD, CABINET, OR TERMINAL BOARD INDICATED, AND TERMINATE CONDUCTORS TO CIRCUIT OVER CURRENT PROTECTIVE DEVICE

TELECOM SYMBOLS

SYMBOL	IDENTIFICATION
	TELEPHONE/DATA OUTLET; PROVIDE 1"C. W/ PULL-STRING TO ACCESSIBLE CEILING SPACE
X	C = CEILING MOUNTED; BACK BOX ONLY FOR FUTURE WAP UNLESS OTHERWISE NOTED

DESIGNATION SYMBOLS

SYMBOL	IDENTIFICATION
A	GRID LINE DESIGNATOR
####	FEEDER DESIGNATION TAG
#	SHEET KEYNOTE TAG
XX-#	MECHANICAL EQUIPMENT TAG
XX-#	CONTRACTOR EQUIPMENT TAG
#	REVISION DELTA WITH REVISION NUMBER
$ a.	LETTER INDICATES FIXTURES CONTROL (WHERE SHOWN)
#.	NUMBER INDICATES CIRCUIT NUMBER (WHERE SHOWN)

LEGEND NOTES:

A. ALL SYMBOLS MAY NOT BE USED IN THIS PROJECT.
B. SYMBOLS DO NOT ALWAYS REPRESENT REAL LIFE DIMENSIONS.
C. SEE BOOK SPECIFICATIONS FOR ADDITIONAL INFORMATION.
D. SEE DETAIL SHEETS FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.

ELECTRICAL SHEET KEY

SHEET NUMBER	DESCRIPTION

GENERAL ELECTRICAL NOTES

A. LOW VOLTAGE STUBS FOR EACH DATA SYMBOL TO CONSIST OF 4SQ W/ MR, 3/4" EMT TO ACCESSIBLE CEILING SPACE, BUSHING, PULL STRING.

B. WIRING METHODS ARE PER CODE. CONTRACTOR TO ASSUME MC FOR BRANCH CIRCUITS. MULTI-CIRCUIT MC ALLOWED. EMT W/ ALUMINUM CONDUCTORS FOR FEEDER ALLOWED.

C. EXISTING HOMERUNS FROM PANEL TO BE RE-PURPOSED AS FEASIBLE.

D. ASSUME PLUG CONTROL WILL NOT BE REQUIRED PER 2021 OEESC EXCEPTION BASED ON EXCEEDING LPD ALLOWANCES BY 5%.

E. FA IS DESIGN/BUILD.

F. DIVISION 26 HAS PATHWAYS AND DEVICE LOCATION ROUGH-IN ONLY FOR DIVISION 27 SYSTEMS.

G. ELECTRICAL SERVICE TO REMAIN LIVE DURING REMODEL.

PRELIMINARY
NOT FOR CONSTRUCTION

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RVTD MOBILITY
220 S Front St, Medford, OR 97501

REVISION SCHEDULE

--- SET --/--/----

JOB NUMBER: 2022####

SHEET TITLE
ELECTRICAL - LEGEND

SHEET NUMBER
E0.01

9/30/2022 1:37:34 PM

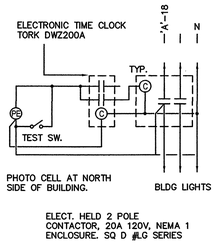
EXISTING FIXTURE SCHEDULE

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	INPUT WATTS	VOLTS	QUANTITY
'A'		(2) F32T8	2 TUBE TROFFER, A12 LENS	ELECTRONIC	CEILING	LITHONIA 2GT8 2 32 A12 120 GEB	62	120V 1P 2W	11
'AE'		(2) F32T8	2 TUBE TROFFER, A12 LENS EMERGENCY	ELECTRONIC	CEILING	LITHONIA 2GT8 2 32 A12 120 GEB EL14	64	120V 1P 2W	4
'B'		(2) F32T8	2 TUBE WRAP AROUND	ELECTRONIC	CEILING	LITHONIA DM 232 AR 120 GEB	64	120V 1P 2W	10
'BE'		(2) F32T8	2 TUBE WRAP AROUND EMERGENCY	ELECTRONIC	CEILING	LITHONIA DM 232 AR 120 GEB EL14	64	120V 1P 2W	6
'C'		(2) F31T8	2'X2' 2 TUBE TROFFER, A12 LENS	ELECTRONIC	CEILING	LITHONIA 2GT8 2 U31 A12 120 GEB	62	120V 1P 2W	2
'D'		(2) F32T8	WALL BRACKET	ELECTRONIC	CEILING	LITHONIA WS 232 A12 120 GEB	64	120V 1P 2W	1
'F'		(1) 32W CIRCLINE	SURFACE ROUND FLUORESCENT	ELECTRONIC	CEILING	LITHONIA 10991	40	120V 1P 2W	1
'G1'		(2) 26DTT	RECESSED FLUORESCENT DOWNLIGHT	ELECTRONIC	CEILING	LITHONIA LF8 2/26DTT GEB10 F802A	52	120V 1P 2W	1
'G2'		(1) 42TRT	RECESSED FLUORESCENT DOWNLIGHT	ELECTRONIC	RECESSED	LITHONIA L88F 42TRT GEB10 8B3	42	120V 1P 2W	14
'H'		(1) 50 MH	DECORATIVE EXTERIOR WALL BRACKET	ELECTRONIC	CEILING	ABOLITE FAL W 50 EMH120 RUS LV2 BALLAST – SMB2 50 EMH UE GWT	58	120V 1P 2W	10
'J'		(1) F32T8	1 TUBE STRIP W/ GUARD	ELECTRONIC	CEILING	LITHONIA S 132 120 GEBWGS	32	120V 1P 2W	3
'TC'	TC	(0)	ELECTRONIC TIME CLOCK		WALL	TORK DWZ200A	0	120V 1P 2W	1
'X'		(0)	LED EXIT LIGHT	ELECTRONIC	CEILING	LITHONIA LE P B 1 R 120 ELN SD	10	120V 1P 2W	3

INTERIOR LIGHTING CONTROL MATRIX TBD

NEW FIXTURE SCHEDULE TBD



A / E-3 **TIME CLOCK DETAIL W/ PHTO CELL**
N.T.S.

EXISTING LIGHTING CONTROL

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ELECTRICAL - LUMINAIRE SCHEDULE AND LIGHTING MATRIX

PROJECT:	2022####
DATE:	--/--/----

No.	Description	Date

E0.02

SITE PLAN FOR REFERENCE
ASSUME NO SCOPE

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	PANELBOARD, 120/208 VOLT 1Ø 3 WIRE, 3Ø 4 WIRE
	EQUIPMENT CABINET – AS INDICATED
	NON–FUSED DISCONNECT SWITCH, VOLTAGE AND RATING TO MATCH FEEDER CIRCUIT BREAKER.
	FUSED DISCONNECT SWITCH, VOLTAGE AND RATING TO MATCH FEEDER CIRCUIT BREAKER.
	FUSED DISCONNECT SWITCH, MOTOR STARTER, VOLTAGE AND RATING TO MATCH FEEDER CIRCUIT BREAKER.
J	JUNCTION BOX – SIZE AS REQUIRED BY NEC.
J D	DATA JUNCTION BOX – SIZE AS REQUIRED BY EQUIPMENT SUPPLIER.
	DUPLEX RECEPTACLE – 20A 125V GROUNDED TYPE, SPECIFICATION GRADE MOUNTED +17"℄, U.N.O.
	DUPLEX RECEPTACLE – 20A 125V GROUNDED TYPE, SPECIFICATION GRADE, MOUNTED ABOVE COUNTER +42"℄, U.N.O.
	QUADPLEX RECEPTACLE – TWO 20A 125V GROUNDED TYPE, SPECIFICATION GRADE, MOUNTED +17℄, U.N.O.
	QUADPLEX RECEPTACLE – TWO 20A 125V GROUNDED TYPE, SPECIFICATION GRADE, MOUNTED ABOVE COUNTER +42"℄, U.N.O.
GFIC	DUPLEX RECEPTACLE – 20A 125V GROUND FAULT CURRENT INTERUPTING, SPECIFICATION GRADE MOUNTED +42"℄, U.N.O.
WP GFIC	WEATHERPROOF DUPLEX RECEPTACLE – 20A 125V GROUND FAULT CURRENT INTERUPTING, SPCIFICATION GRADE, WEATHERPROOF COVER, MOUNTED +17" ℄, U.N.O.
	EQUIPMENT CONNECTION
	SPECIAL RECEPTACLE – NEMA CONFIGURATION TO MATCH EQUIPMENT CORDSET.
	CEILING EXHAUST FAN.
	MOTOR.
$	SWITCH, SINGLE POLE, 20A 120/277V, SPECIFICATION GRADE, MOUNTED +46"℄ U.N.O.
$3	SWITCH, THREE WAY, 20A 120/277V, SPECIFICATION GRADE, MOUNTED +46"℄ U.N.O.
$4	SWITCH, FOUR WAY, 20A 120/277V, SPECIFICATION GRADE, MOUNTED +46"℄ U.N.O.
$D	SWITCH, FLUORESCENT DIMMER, 600W 120/277V, SPECIFICATION GRADE, MOUNTED +46"℄ U.N.O.
$LV	SWITCH, MOMENTARY DOUBLE THROW CENTER OFF, 20A 120/277V, SPECIFICATION GRADE, MOUNTED +46"℄ U.N.O.
$(O)	SWITCH, OCCUPANCY SENSING TYPE WITH ADJUSTABLE TIMER AND BYPASS, 20A 120/277V, SPECIFICATION GRADE, MOUNTED +46"℄ U.N.O.
$M	SWITCH, MOTOR RATED WITH OVERLOAD HEATER.
TC	TIME CLOCK, ELECTRONIC SEVEN DAY, TWO CHANNEL WITH MULTIPLE ON/OFF PER DAY, ASTRONOMICAL.
	DATA OUTLET BACKBOX, 4–11/16" SQUARE WITH SINGLE GANG RAISED RING, MOUNTED +17" ℄ U.N.O., WITH 3/4" C. W/ PULL STRING CONTINUOUS TO DISTRIBUTION TERMINAL BACKBOARD.
	FLOOR POWER RECEPTACLE
	FLOOR DATA/TELEPHONE RECEPTACLE
	CABLE TV BACKBOX, 4" SQUARE WITH SINGLE GANG RAISED RING, MOUNTED +17" ℄ U.N.O., WITH 3/4" C. AND RG6 CABLE WITH FITTINGS TO ACCESSIBLE CEILING SPACE, CRAWL SPACE OR CONTINUOUS TO DISTRIBUTION BACKBOARD.
	STANDARD TELEPHONE BACKBOX, 4" SQUARE WITH SINGLE GANG RAISED RING, MOUNTED +17" ℄ U.N.O., WITH 3/4" C. AND CAT 6e CABLE TO ACCESSIBLE CEILING SPACE, CRAWL SPACE OR CONTINUOUS TO DISTRIBUTION BACKBOARD.
PE	PHOTO–ELECTRIC CELL – INSTALL ON NORTH SIDE OF BUILDING.
U.N.O.	UNLESS NOTED OTHERWISE.

(E)	EXISTING.
(R)	REMOVE.
(NL)	NIGHT LIGHT.
GFCI	GROUND FAULT CIRCUIT INTERUPTER.
WP	WEATHERPROOF.
MCP	MOTOR CIRCUIT PROTECTOR

2 / E0.2 — NUMBER / DETAIL CALLOUT / DRAWING

$A — LIGHT SWITCH; SWITCH FIXTURE CODE

LV — 3 CONDUCTOR 18 LOW VOLTAGE CABLE

T — SINGLE GANG RAISED RING WITH 1/2" CONDUIT MOUNTED +60" ℄, U.N.O. ON MECHANICAL DRAWINGS, WITH 1/2" C. TO ACCESSIBLE CEILING SPACE OR CONTINUOUS TO MECHANICAL UNIT. VERIFY WITH MECHANICAL CONTRACTOR.

ELECTRICAL SYMBOL NOTES

DEVICES AND DEVICE LOCATIONS ARE SHOWN DIAGRAMATICALLY AND ARE NOT TO SCALE. MOUNT BACKBOXES AND DEVICES CLOSELY TOGETHER HWERE INDICATED IN GROUPS. DO NOT INSTALL DEVICE BACKBOXES BACK TO BACK IN COMMON WALL. MAINTAIN A MINIMUM OF 12" SEPERAQTION.

PLAN VIEW OF SYMBOLS — ELEVATION VIEW OF DEVICES

EQUIPMENT AND APPARATUS CLEARENCES ARE SHOWN TO SCALE.

PANELBOARD

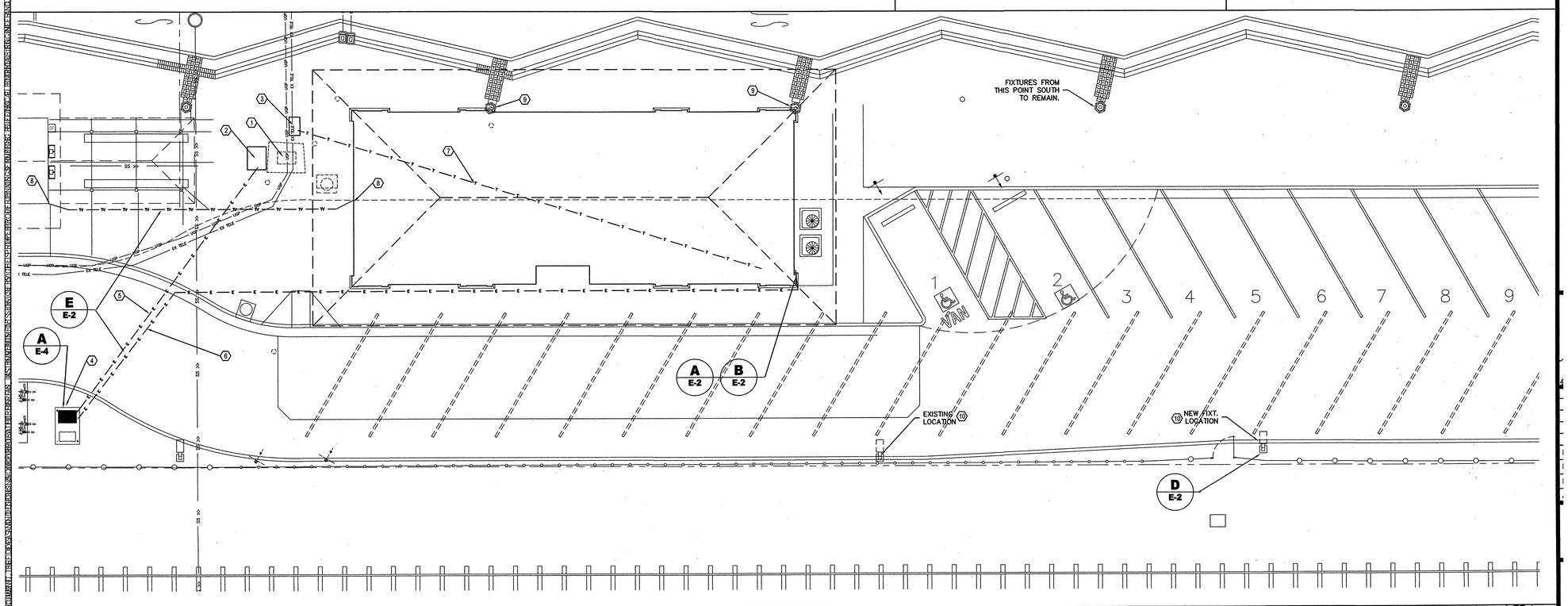
CLEARENCE ZONE 36" DEEP BY 30" WIDE MINIMUM

KEY NOTES

1. EXISTING UTILITY TRANSFORMER TO BE REMOVED.
2. FLUSH PULL BOX AS PER PACIFIC POWER. HIGH VOLTAGE CONDUIT AND CABLE TO BE ROUTED FROM TRANSFORMER THIS LOCATION. SECONDARY CONDUIT AND CABLE FROM TRANSFORMER TO RVTD BLDG. TO BE ROUTED HERE.
3. FLUSH PULLBOX TO INTERCEPT EXISTING TELEPHONE CONDUIT.
4. NEW TRANSFORMER PAD/VAULT TO BE INSTALLED HERE AS PER PACIFIC POWER.
5. FOUR 4"C. FOR POWER.
6. ONE 4"C. FOR NEW SERVICE.
7. ONE 4"C. FOR NEW TELEPHONE SERVICE.
8. TWO 1"C. UNDERGROUND FROM EXISTING BUILDING ACCESSIBLE ATTIC SPACE TO NEW TERMINAL BUILDING ACCESSIBLE ATTIC SPACE. CONDUITS NOT TO BE EXPOSED ON SIDE OF BUILDINGS.
9. EXISTING PARKING FIXTURES AND FOUNDATIONS TO BE REMOVED. REPAIR AND CONNECT EXISTING CONDUIT AND REPULL CONDUCTORS TO FIXTURES TO REMAIN.
10. EXISTING PARKING FIXTURE TO BE RELOCATED. REMOVE EXISTING FOUNDATION, EXTEND CONDUITAND WIRE, INSTALL NEW FOUNDATION, REINSTALL POLE AND FIXTURE AND CONNECT.

GENERAL NOTES

1. THE INTENT OF THESE DRAWINGS IS THAT THE CONTRACTOR SHALL PROVIDE A COMPLETE AND WORKING FACILITY. OBVIOUS OMISSIONS FROM THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER PRIOR TO BIDDING. FAILURE TO DO SO WILL BE CONSTRUED AS THE WILLINGNESS OF THE CONTRACTOR TO SUPPLY ALL NECESSARY MATERIALS AND LABOR FOR THE PROPER COMPLETION OF THE WORK.
2. THE WORK COVERED IN THESE DRAWINGS SHALL INCLUDE FURNISHING OF ALL LABOR, MATERIAL, EQUIPMENT AND SERVICES TO CONSTRUCT AND INSTALL THE ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS HEREIN. ALL WORK SHALL CONFORM THE THE MOST CURRENT NATIONAL ELECTRICAL CODE, LOCAL AND STATE CODES AS APPLICABLE.
3. CONTRACTOR SHALL ARRANGE FOR ALL PERMITS AND INSPECTIONS IN CONNECTION WITH THIS WORK. THE CONTRACTOR SHALL FURNISH THE OWNER WITH A CERTIFICATE OF APPROVAL FROM THE INSPECTION AUTHORITY AT THE COMPLETION OF THE WORK PRIOR TO APPLICATION FOR FINAL PAYMENT.
4. CONTRACTOR TO PROVIDE AND INSTALL ELECTRICAL SERVICE EQUIPMENT NOTED ON THE DRAWINGS.
5. CONTRACTOR TO VERIFY TELEPHONE, COMPUTER, LIGHTING AND POWER DEVICE LOCATIONS WITH OWNER BEFORE INSTALLATION.
6. ALL DEVICE PLATES TO HAVE IDENTIFICATION TAGS INDICATING PANEL AND CIRCUIT NUMBER. 1/4" LETTERS BLACK ON CLEAR. ALL JUNCTION BOXES TO HAVE PANEL AND CIRCUIT NUMBERS IDENTIFIED ON COVER.
7. SEE ARCHITECTURAL SITE PLAN FOR ANY ELECTRICAL DEMOLITION FOR THIS SITE. MAINTAIN CIRCUIT INTEGRITY FOR ANY SITE ELECTRICAL TO REMAIN.
8. INSTALL WIRING THROUGHOUT IN MC CABLE OR NMC CABLE, ALL WIRING TO BE #12 THHN CU UNLESS OTHERWISE INDICATED.
9. SWITCHES AND RECEPTACLES TO BE SPECIFICATION GRADE, WHITE IN COLOR WITH WHITE NYLON COVER PLATES.
10. SAFETY SWITCHES TO BE HEAVY DUTY WITH FUSES. INTERIOR SWITCHES TO HAVE NEMA 1 ENCLOSURES AND EXTERIOR SWITCHES TO HAVE NEMA 3R ENCLOSURES. SWITCHES TO BE THE QUICK– MAKE QUICK– BREAK TYPE.
11. CONTRACTOR TO PROVIDE AND INSTALL ELECTRICAL SERVICE EQUIPMENT'S NOTED ON THE DRAWINGS AND COORDINATE WITH POWER COMPANY FOR DISCONNECT AND RECONNECT..
12. PROVIDE AND INSTALL 4" SQUARE BOX, SINGLE GANG PLASTER RING, AND 1" CHASE TOACCESSIBLE CEILING/CRAWL SPACE WITH PULL STRING FOR CABLE TV, TELEPHONE, AND COMPUTER.



ELECTRICAL SITE PLAN 1/8" 1

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ELECTRICAL - SITE PLAN

PROJECT:	2022#####
DATE:	--/--/----

No.	Description	Date

E1.00

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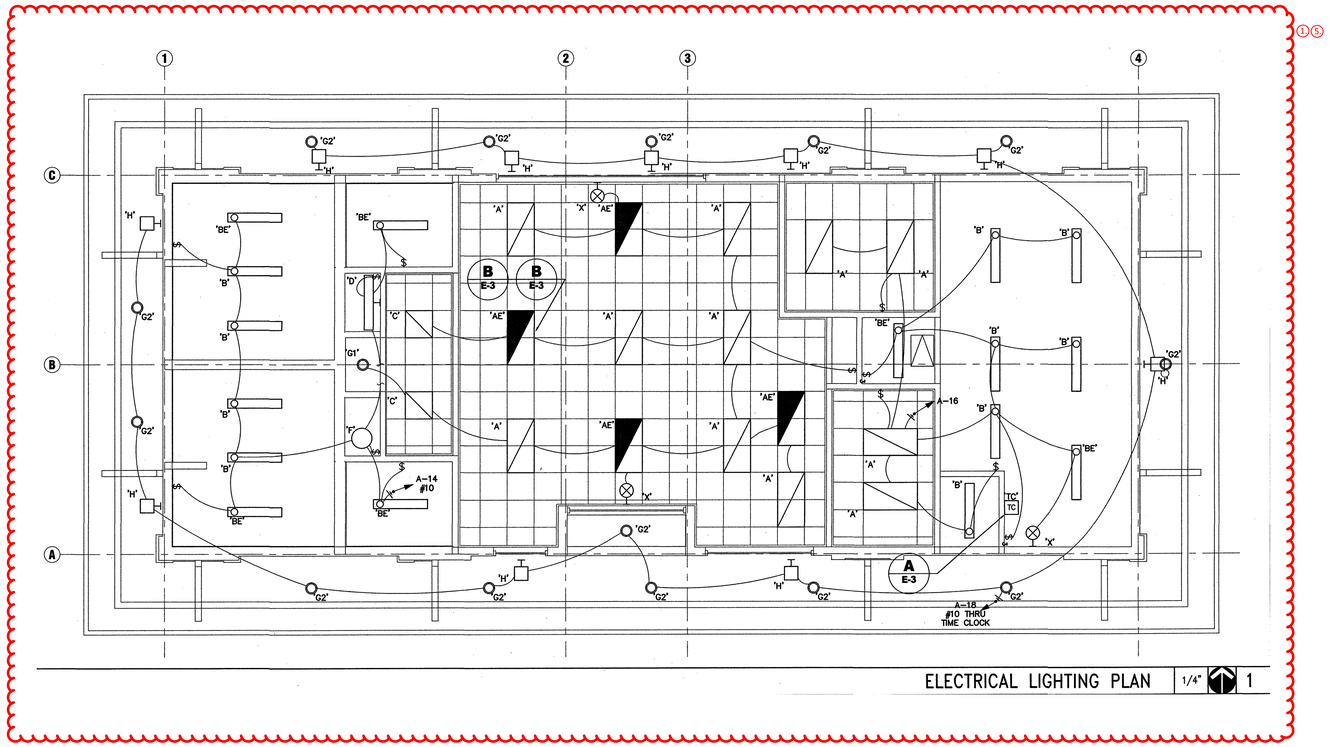


ELECTRICAL LIGHTING PLAN 1/4" 1

SHEET NOTES: (X)

1.ALL EXISTING LIGHTING AND CONTROLS TO BE REPLACED. EXISTING HOMERUNS AND BRANCH CIRCUIT WIRING TO BE RE-PURPOSED. SEE E3.01 FOR DETAILS

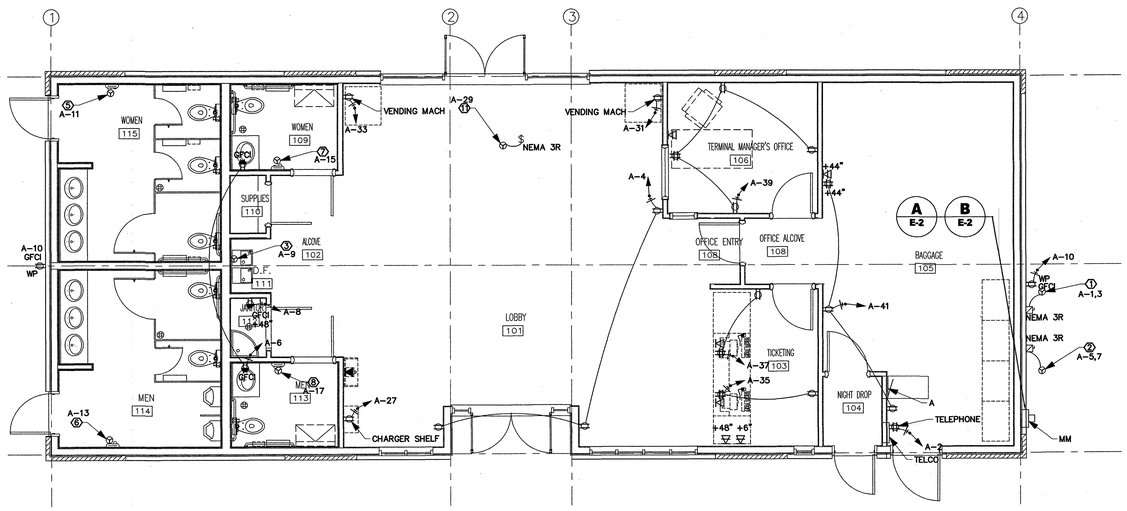
2. EXISTING PANEL 'A' TO REMAIN 'AS IS'. PROVIDE LOCK-OUT/TAG-OUT OF EXISTING BRANCH CKTS AS NECESSARY FOR DEMO AND CONSTRUCTION OTHER EXISTING CKTS TO REMAIN 'AS IS'.

3. EXISTING LOW VOLTAGE CABLING/DEVICES TO REMAIN 'AS IS'. DEMO IF NECESSARY FOR CONSTRUCTION.

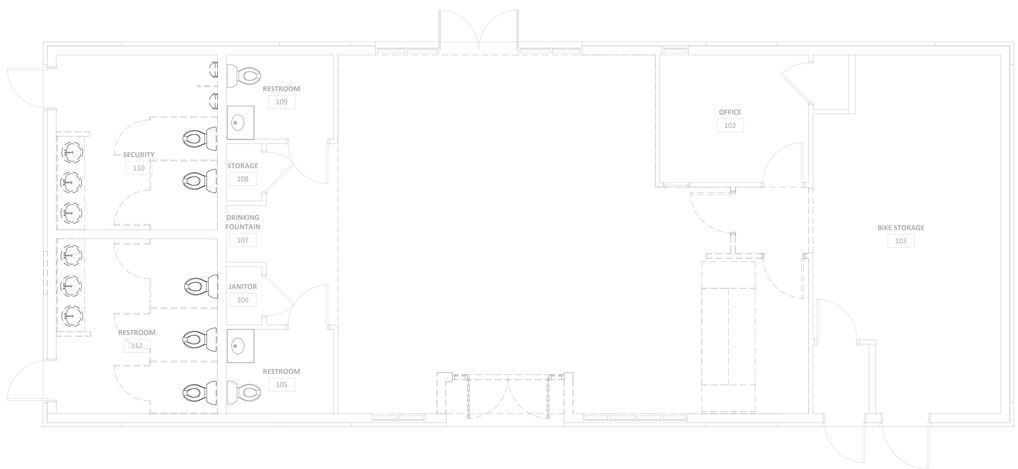
4. ALL EXISTING WALL AND CEILING MOUNTED LOW VOLTAGE SYSTEMS/DEVICES TO REMAIN 'AS IS'. IF DEMO NECESSARY, COORDINATE WITH GC.

5. RE-PURPOSE EXISTING HOMERUNS AND BRANCH CIRCUITS WHERE POSSIBLE. SEE E3.01 FOR PROPOSED NEW POWER, DATA, AND LIGHTING LAYOUT.

6. EXISTING DEVICE LOCATIONS THAT REMAIN TO BE REPLACED WITH NEW DEVICES. CONFIRM WITH ARCHITECT FOR COLOR AND FINISH.



ELECTRICAL MAIN FLOOR POWER PLAN 1/4" 1



1 E1.01 ELECTRICAL - LEVEL 01 FLOOR PLAN - ELECTRICAL DEMO
1/4" = 1'-0"

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ELECTRICAL - LEVEL 01 FLOOR PLAN - ELECTRICAL DEMO

PROJECT:	2022####
DATE:	--/--/----

No.	Description	Date

E1.01

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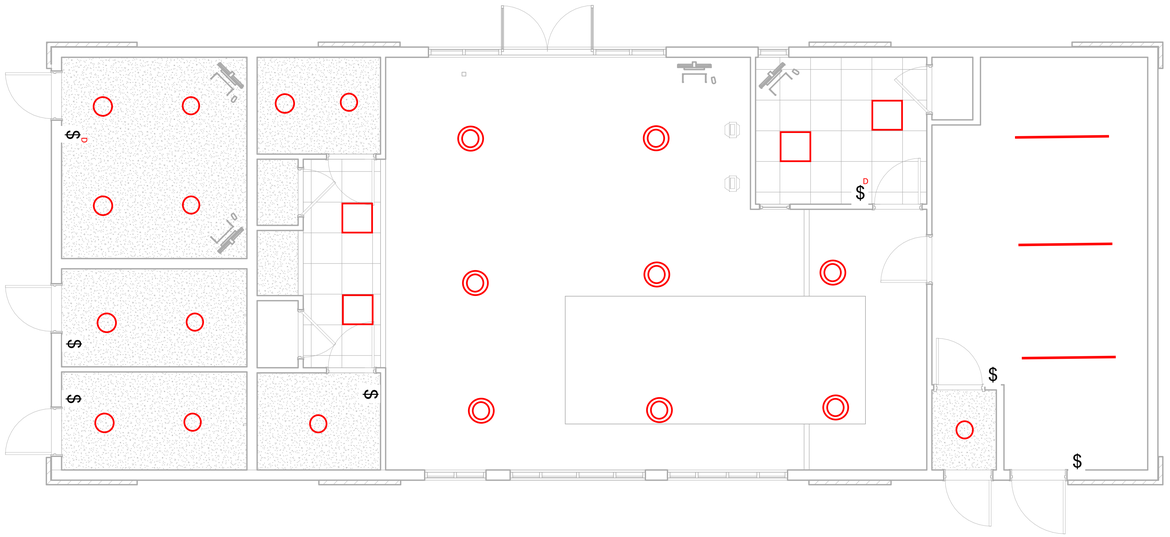


2 E3.01 ELECTRICAL - LEVEL 01 RCP - LIGHTING
1/4" = 1'-0"

ELECTRICAL SHEET NOTES:

A. LOW VOLTAGE STUBS FOR EACH DATA SYMBOL TO CONSIST OF 45Q W/ MR, 3/4" EMT TO ACCESSIBLE CEILING SPACE, BUSHING, PULL STRING.

B. WIRING METHODS ARE PER CODE. CONTRACTOR TO ASSUME MC FOR BRANCH CIRCUITS.

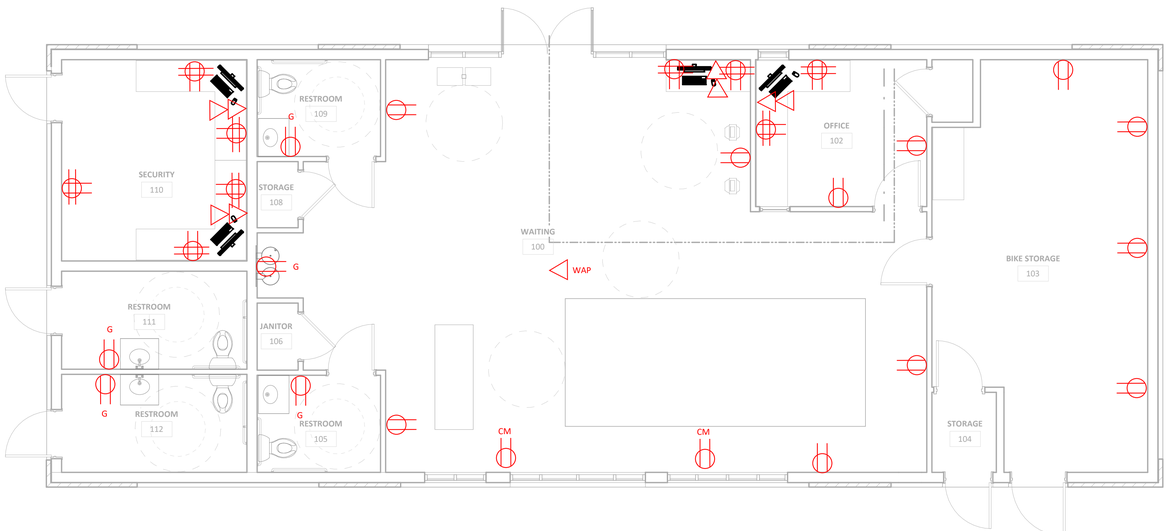
C. EXISTING HOMERUNS FROM PANEL 'A' TO BE RE-PURPOSED.

D. ASSUME PLUG CONTROL WILL NOT BE REQUIRED PER 2021 OEESC EXCEPTION BASED ON EXCEEDING LPD ALLOWANCES BY 5%.

E. ASSUME LIGHTING CONTROL PER ASHRAE 2019 90.1. ASSUME INDIVIDUAL ROOM CONTROLS. NO LCP IS ASSUMED. EXISTING EXTERIOR FIXTURES TO BE CONTROLLED BY TIMECLOCK.

F. EXISTING EXTERIOR LIGHTING TO BE REPLACED WITH NEW LED IN LIKE FOR LIKE LOCATIONS. SEE E1.01 FOR LOCATIONS AND TYPES.

G. NEW FIXTURES ARE LED. NEW TYPES TO BE COORDINATED WITH ARCHITECT AND ARE TBD.



1 E3.01 ELECTRICAL - LEVEL 01 FLOOR PLAN - POWER AND DATA
1/4" = 1'-0"

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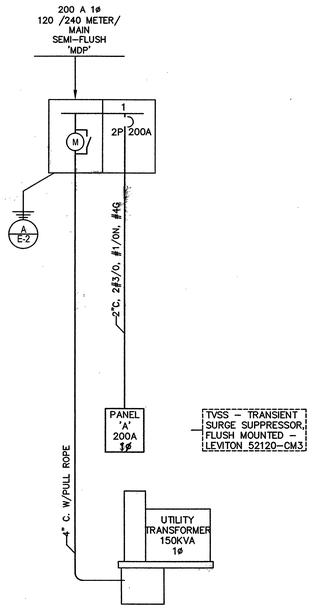
ELECTRICAL - LEVEL 01 FLOOR PLAN

PROJECT:	2022####
DATE:	--/--/----

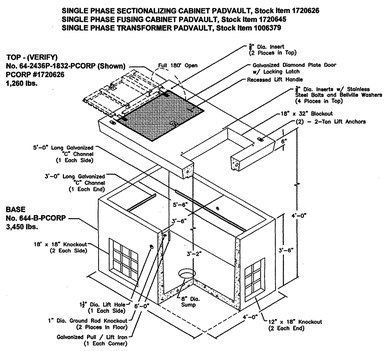
No.	Description	Date

E3.01



ELECTRICAL RISER DIAGRAM

N.T.S.



TRANSFORMER PAD/VAULT DETAIL

N.T.S.

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ELECTRICAL - ONE-LINE DIAGRAMS

PROJECT:	2022####
DATE:	--/--/----

No.	Description	Date

E5.01

EXISTING

NEW PANEL SCHEDULES FOR 'A'

EQUIPMENT SCHEDULE

CALLOUT TAG	CALLOUT	SYMBOL	NEMA	VOLTS	KVA	HP	CIRCUIT	WIRE CALLOUT	MCA	MOCP	FLA	DISCONNECT DESCRIPTION	DISCONNECT FUSE SIZE	DISCONNECT FUSE TYPE
1	AC/1		NEMA 3R	240V 2P 2W	5.09		A-1,3	1/2"C,2#10,#10G	25.9	45	20.7	60A 2P 3R	45	DUAL ELEMENT
2	AC/2		NEMA 3R	240V 2P 2W	5.09		A-5,7	1/2"C,2#10,#10G	25.9	45	20.7	60A 2P 3R	45	DUAL ELEMENT
3	DRINKING FOUNTAIN			120V 1P 2W	1		A-9	1/2"C,1#12,#12N,#12G						
3	EF-1	$		120V 1P 2W		1/6 HP					4.9		20	
5	ELECTRIC HAND DRYER			120V 1P 2W	2.2		A-11	1/2"C,1#10,#10N,#10G						
6	ELECTRIC HAND DRYER			120V 1P 2W	2.2		A-13	1/2"C,1#10,#10N,#10G						
7	ELECTRIC HAND DRYER			120V 1P 2W	2.2		A-15	1/2"C,1#10,#10N,#10G						
8	ELECTRIC HAND DRYER			120V 1P 2W	2.2		A-17	1/2"C,1#10,#10N,#10G						
9	HF-1	$		120V 1P 2W		1/2 HP	A-19	1/2"C,1#12,#12N,#12G	12	15	9.8	20A SP		
8	HF-2	$		120V 1P 2W		1/2 HP	A-21	1/2"C,1#12,#12N,#12G	12	15	9.8	20A SP		
11	SIGN CIRCUIT	$	NEMA 3R	120V 1P 2W	1.5		A-29	1/2"C,1#12,#12N,#12G						
12	WATER HEATER			240V 2P 2W	4.5		A-23,25	1/2"C,2#10,#10G				30A 2P NF		

MM

ROOM
MOUNTING FLUSH
FED FROM PPL
NOTE

VOLTS 240/120V 2P 3W
BUS AMPS 200
NEUTRAL 100%

AIC 22,000
MAIN BKR MLO
LUGS STANDARD

CKT #	CIRCUIT DESCRIPTION	KVA LOAD A	KVA LOAD B	BREAKER TRIP/POLES	COND.	FEEDER RACEWAY AND CONDUCTORS
1	PANEL A	20.6	18.7	200/2	CU	2"C,2#3/0,#3/0N,#4G
	TOTAL CONNECTED KVA BY PHASE	20.6	18.7			

	CONN. KVA	CALC. KVA			CONN. KVA	CALC. KVA	
LIGHTING	5.01	6.26	(125%)	CONTINUOUS	0	0	(125%)
LARGEST MOTOR	5.09	6.36	(125%)	HEATING	0	0	(100%)
OTHER MOTORS	8.44	8.44	(100%)	NONCONTINUOUS	13.3	13.3	(100%)
RECEPTACLES	7.4	7.4	(50%>10)	KITCHEN EQUIP	0	0	(N/A)
				NONCOIN/DIVERSE	0	0	(N/A)
				TOTAL KVA	39.2	41.8	

BALANCED PHASE AMPS 174

A

ROOM
MOUNTING FLUSH
FED FROM MM
NOTE

VOLTS 240/120V 2P 3W
BUS AMPS 200
NEUTRAL 100%

AIC 10,000
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	CIRCUIT DESCRIPTION	KVA LOAD A	KVA LOAD B	CKT #	CKT BKR	CIRCUIT DESCRIPTION	KVA LOAD A	KVA LOAD B
1	30/2	AC/1	2.54		2	20/1	TELEPHONE BOARD	0.36	
3	|			2.54	4	20/1	RECEPTACLE		0.54
5	30/2	AC/2	2.54		6	20/1	RECEPT	0.36	
7	|			2.54	8	20/1	RECEPT		0.18
9	20/1	DRINKING FOUNTAIN	1		10	20/1	RECEPT, WP RECEPT	0.36	
11	30/1	ELECTRIC HAND DRYER		2.2	12	20/1	ATTIC LIGHTING		0.276
13	30/1	ELECTRIC HAND DRYER	2.2		14	20/1	LIGHTING	0.616	
15	30/1	ELECTRIC HAND DRYER		2.2	16	20/1	LIGHTING		1.63
17	30/1	ELECTRIC HAND DRYER	2.2		18	20/1	LIGHTING	1.17	
19	20/1	HF-1		1.18	20	20/1	SPARE		0
21	20/1	HF-2	1.18		22	20/1	SPARE	0	
23	30/2	WATER HEATER		2.25	24	20/1	SPARE		0
25	|		2.25		26	20/1	SPARE	0	
27	20/1	CHARGER SELF		0.5	28	20/1	SPARE		0
29	20/1	SIGN CIRCUIT	1.5		30	20/1	SPARE	0	
31	20/1	VENDING MACHINE		1.2	32	20/1	SPARE		0
33	20/1	VENDING MACHINE	1.2		34	20/1	SPARE	0	
35	20/1	RECEPTACLE		0.54	36	20/1	SPARE		0
37	20/1	RECEPTACLE	0.54		38	20/1	SPARE	0	
39	20/1	RECEPT, RECEPTACLE		0.9	40	20/1	SPARE		0
41	20/1	RECEPTACLE	0.54		42	20/1	SPARE	0	
							TOTAL CONNECTED KVA BY PHASE	20.6	18.7
							TOTAL CONNECTED AMPS BY PHASE	171	156

	CONN. KVA	CALC. KVA			CONN. KVA	CALC. KVA	
LIGHTING	5.01	6.26	(125%)	CONTINUOUS	0	0	(125%)
LARGEST MOTOR	5.09	6.36	(125%)	HEATING	0	0	(100%)
OTHER MOTORS	8.44	8.44	(100%)	NONCONTINUOUS	13.3	13.3	(100%)
RECEPTACLES	7.4	7.4	(50%>10)	KITCHEN EQUIP	0	0	(N/A)
				NONCOIN/DIVERSE	0	0	(N/A)
				TOTAL KVA	39.2	41.8	

BALANCED PHASE AMPS 174

COLEBREIT ENGINEERING + AXIOM ENGINEERS
BEND | CORVALLIS
MONTEREY | NAPA | SANTA CRUZ

ORW ARCHITECTURE
WWW.ORWARCHITECTURE.COM
29 S GRAPE STREET
MEDFORD, OR 97501
P 541.779.5237

FOR REFERENCE ONLY

RVTD MOBILITY
220 S Front St, Medford, OR 97501
ORW

ELECTRICAL - SCHEDULES

PROJECT:	2022####
DATE:	--/--/----

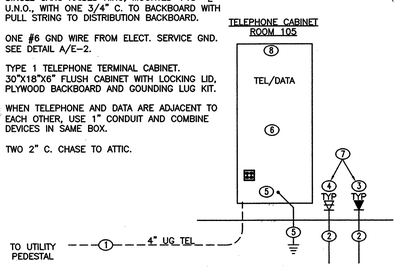
No.	Description	Date

E6.01

CONDUIT, WIRE & EQUIPMENT SCHEDULE

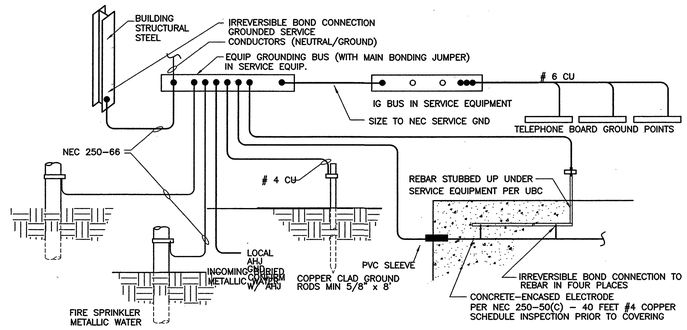
1. ONE 4" CONDUIT WITH PULL ROPE.
2. ONE 3/4" C. TO BACKBOARD WITH PULL STRING, W/ 4 11/16" SQUARE DEEP BOX, SINGLE GANG RAISED RING.
3. TELEPHONE OUTLET – ONE 3/4" C. TO BACKBOARD WITH PULL STRING, W/ 4 11/16" SQUARE DEEP BOX, SINGLE GANG RAISED RING.
4. DATA OUTLET BACKBOX, 4–11/16" SQUARE WITH SINGLE GANG RAISED RING, MOUNTED +13" @ U.N.O., WITH ONE 3/4" C. TO BACKBOARD WITH PULL STRING TO DISTRIBUTION BACKBOARD.
5. ONE #6 GND WIRE FROM ELECT. SERVICE GND. SEE DETAIL A/E–2.
6. TYPE 1 TELEPHONE TERMINAL CABINET. 30"X18"X6" FLUSH CABINET WITH LOCKING LID, PLYWOOD BACKBOARD AND GOUNDING LUG KIT.
7. WHEN TELEPHONE AND DATA ARE ADJACENT TO EACH OTHER, USE 1" CONDUIT AND COMBINE
8. DEVICES IN SAME BOX.

TWO 2" C. CHASE TO ATTIC.



DATA/TELEPHONE/TV RISER DIAGRAM

N.T.S.



1. INSTALL GROUNDING/BONDING CONDUCTORS IN PROTECTIVE RACEWAYS
2. ALL ISOLATED GROUND CONDUCTORS ARE GREEN WITH TRACER COLOR IN INSULATION, NO EXCEPTIONS

ELECTRICAL GROUNDING AND BONDING DETAIL

N.T.S.

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220 S Front St, Medford, OR 97501
ORW

ELECTRICAL - DETAILS

PROJECT:	2022####
DATE:	--/--/----

No.	Description	Date

E7.01

MEP Schematic Design Narrative

RVTD Mobility Training Center

130 E 8th St. Medford, OR 97501
Project: 20220492
Date: 10/27/2022

Created for:

ORW Architects

Prepared by:

Michael Miscione, PE
Bruce Jessup
Micah Tetreault
Michael Leavitt, PE

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Summary

The Rogue Valley Transportation District is remodeling two of its facilities located in downtown Medford. As a part of this project, the district would like to keep sustainability in mind. The scope of this project includes the reconfiguration of existing HVAC equipment, plumbing, electrical systems, specifications, bidding support services, and construction support services.

Mobility Training Center:
The Mobility Training center is located across the street from the Downtown Administration Building. At 220 S. Front St. The smaller of the two facilities is approximately 2,000 square feet, originally built to serve as a Greyhound Terminal in 2006. The building currently has a large passenger waiting area, a ticket counter, one private office, restrooms and a baggage holding area. This facility will be renovated to provide mobility training for the RVTD's bus system and Valley Lift. A mock bus system with will be provided to allow the public to learn how to use the transit at their own pace.

Criteria

Systems will be designed in accordance with the following:

Codes:

- **Current Oregon Plumbing Specialty Code**
- **Current Oregon Energy Efficiency Code**
- **Current Oregon Mechanical Specialty Code**
- **Current Oregon Structural Specialty Code**
- **Current Oregon Boiler and Pressure Vessel Specialty Code**

Standards:

- **ASHRAE – American Society of Heating, Refrigeration and Air-Conditioning Engineers.**
- **ASME – American Society of Mechanical Engineers**
- **ASPE – American Society of Plumbing Engineers**
- **ASTM – American Society of Testing Materials**
- **AWWA – American Water Works Association**
- **CISPI – Cast Iron Soil Pipe Institute**
- **CS – Commercial Standards**
- **EPA – Environmental Protection Agency**
- **FM – factory Mutual Engineering Corporation**
- **IBC – International Building Code**
- **NEC – National Electric code**
- **NFPA – National Fire Protection Association**
- **OSHA – Occupational Safety and Health Administration**
- **PDI – Plumbing and Drainage Institute**
- **UPC – Uniform Plumbing Code**
- **UL – Underwriters Laboratories**

General

The Mobility Training Center was formally a Greyhound Bus transfer station and will be remodeled to fit the needs of the Transportation Department. Two existing public restrooms on the building's exterior will be fully demolished. They will be replaced with (2) new single user restroom groups and a Security Office.

Demolition

All fixtures in existing public restrooms on the building's exterior are to be removed in their entirety. Waste and Vent piping to be removed back to a point in the dividing wall and capped in place. Cold Water and Hot Water piping to be removed to a point in the dividing wall and capped in place.

Storm

Existing Storm drains and piping to remain, no additional scope.

New Fixtures

- (2) Water Closets to be added total, one each new restroom.
- (2) Lavatories to be added total, one to each new restroom.
- (2) Floor drains w/ Trap primers to be added total, one to each new restroom.

Waste Connections

New and Re-utilized fixtures to be reconnected to Building mains with new branch waste and vent piping. Piping material for waste and vent will be cast iron as the basis of design.

Condensate

As the air conditioning units are both inside and outside the building cool air water can condense on the cooling coil in the form of condensate. Condensate must be collected and discharged to an approved location to prevent water damage.

Indoor cooling fan coils will require a condensate pump to pump condensate to an approved location, such as a lavatory tail piece, floor drain, or mop sink.

Water Connections

New and Re-utilized fixtures to be reconnected to Building mains with new branch piping. Piping material will be copper and PEX where appropriate.

Water Heater(s)

Existing Water heaters to remain.

Gas

The existing gas service will remain for the Administration building and Mobility Training Center.

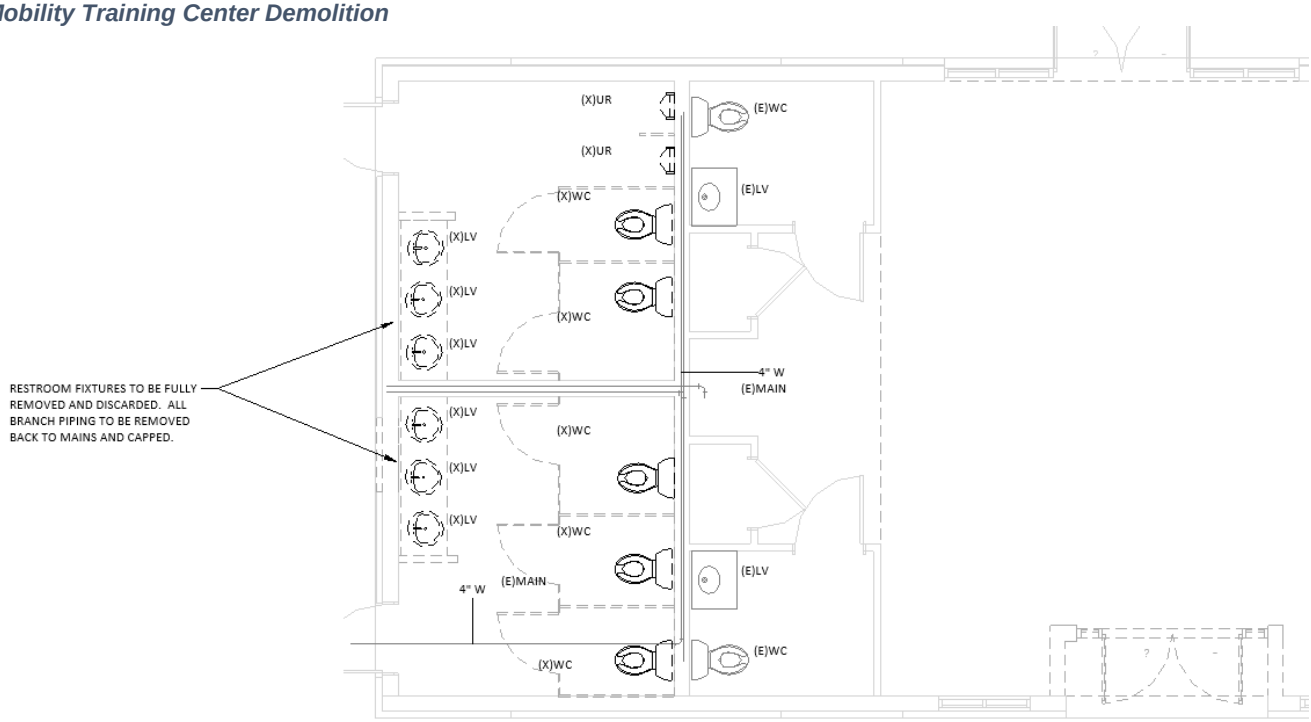
Calculations

The overall load capacity for both waste and water will be less than what exists in both buildings.

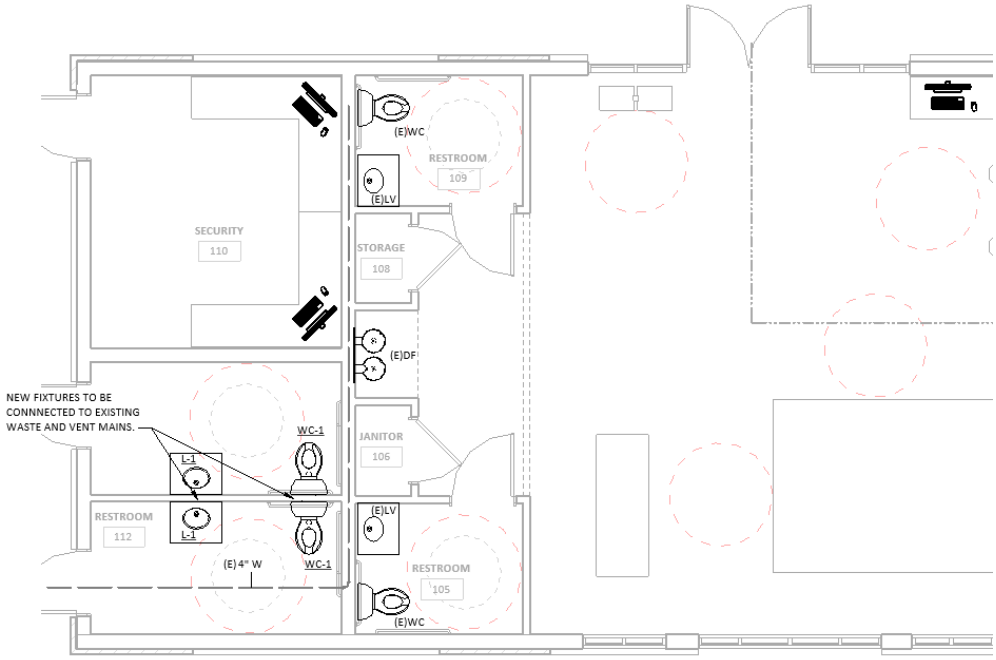
Systems Testing & Balancing

Testing and balancing of the cold and hot water systems shall be required. Detailed test procedures and balance reports shall be provided to Owner upon completion.

Mobility Training Center Demolition



Mobility Training Center Complete



Criteria

Systems will be designed in accordance with the following:

Codes:

- **Current Oregon Mechanical Specialty Code**
- **Current Oregon Energy Efficiency Code**
- **Current Oregon Plumbing Specialty Code**
- **Current (2019) Oregon Structural Specialty Code**

Standards:

- **ASHRAE 55 Thermal Environmental Conditions for Human Occupancy**
- **ASHRAE 62.1 Ventilation for Acceptable Indoor Air Quality**
- **NFPA 90A: Standard for the Installation of Air-Conditioning and Ventilating Systems, Current Edition**
- **NFPA 90B: Standard for the Installation of Warm Air Heating and Air-Conditioning Systems, Current Edition.**
- **NFPA 101: Life Safety Code, Current Edition**
- **Air Conditioning and Refrigeration Institute (ARI) Standards**
- **Air Moving and Air Conditioning Contractors National Association (SMACNA)**

General

The existing administration being renovated is served by existing HVAC system mainly comprised of 5 packaged gas-electric rooftop units (RTUs). These units are approximately 11 years old and will be reused for this project. Mechanical contractor to inspect and repair as needed to bring units into like new condition. See below for proposed equipment zoning.

The HVAC systems and equipment are sized based on existing and new layouts and Carrier Block Load calculations that comply with the following design conditions, as recommended by ASHRAE:

- **Outdoor Design Conditions**
  - Summer: 98°F OADB / 67°F OAWB
  - Winter: 21°F

- **Indoor Design Conditions**
  - In conditioned areas:
    - Cooling DB 75°F
    - Heating DB 70°F

- **Ductwork Design Criteria**
  - Maximum Friction Loss
    - 0.1 in wg / 100 ft.

- **Ventilation Criteria**
  - Complies with Oregon Mechanical Code, Chapter 4.

- Complies with ASHRAE Standard 62.1.
- Ventilation to exceed code minimum by 50% as requested by the county to help mitigate odors.

- **Envelope Assumptions**
  - Walls: Assumed U-factor of 0.51, based on R-19 insulation.
  - Roof: Assumed R-30 or U-factor of 0.32, (equates to current code minimum).
  - Windows: Assumed U-factor of 0.36 and solar heat gain coefficient of 0.38 (equates to current code minimum).

- **Internal Heat Gains**
  - All lighting loads calculated at 1 W/sq. ft.
  - Computer loads calculated at 150 W, per ASHRAE Fundamentals Manual.
  - Refrigerators calculated at 1200 BTUH, per ASHRAE Fundamentals Manual.
  - Typical office room occupancies calculated at 1 person and 1 computer per office, other room occupancies calculated from square footage and expected typical use.

Equipment Selection
Existing units on the admin building are Lennox packaged rooftop equipment to remain. Existing exhaust fans will be replaced with a larger CFM fan to meet the new exhaust needs and will be Twin City or Greenheck.

Energy Trust of Oregon
ColeBreit Engineering will discuss potential incentives with the Energy Trust of Oregon prior to completion of design.

Power Supply
All new equipment shall be served by 208V/3Ph power, to match existing wherever possible. Maintenance receptacle shall be provided within 25' of new equipment on rooftop and mechanical disconnect shall be within visual range of new equipment.

Grilles, Registers, and Diffusers
GRDs will be sized to a maximum NC (noise criteria) level of 30, which is standard in office areas to provide a quiet work environment. Secure first-floor areas will use detention-style grilles, and internal security grilles in ductwork to these areas. Basis of design will be Price, as per the existing record drawings.

Distribution Systems
Duct routing shall be re-designed as necessary to meet the requirements of the layout revisions in the remodeled areas, and new duct distribution systems shall be designed for the newly added areas. Ducts shall be constructed of galvanized sheet metal for low pressure applications and shall be insulated to meet code requirements for minimizing energy losses. All ducts are intended to be concealed.

Controls
Existing wall-mounted thermostats will be reused and relocated based on the new floor plan.

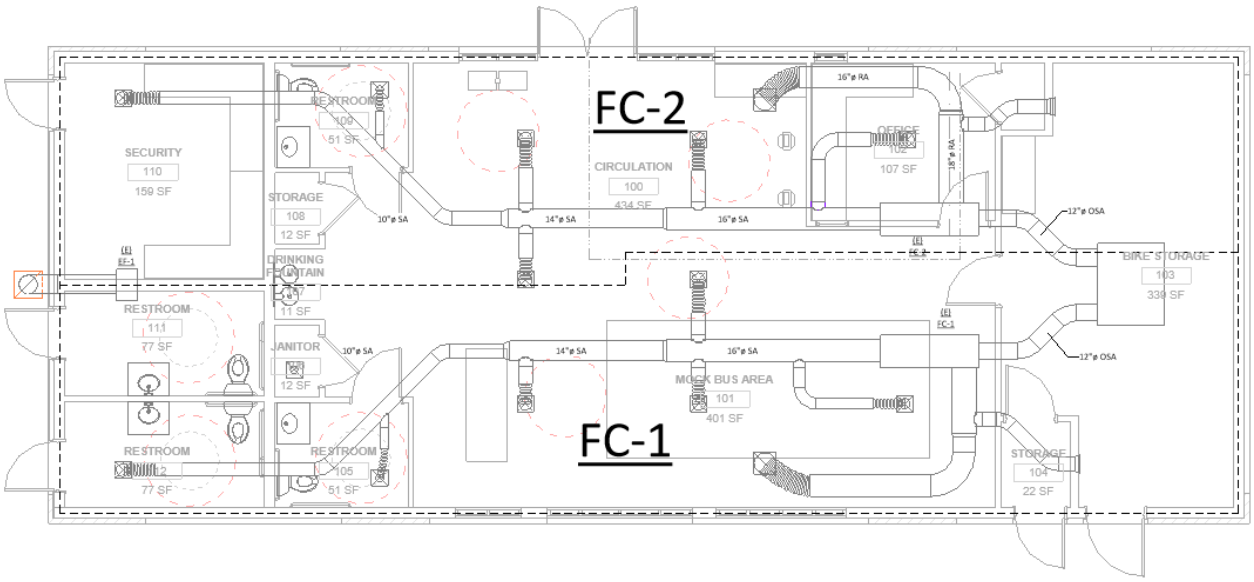
Systems Testing & Balancing

Testing, adjusting, and balancing shall include, but not be limited to air handling systems, air distribution ductwork, temperature control, general exhaust, and split system fan coil unit adjustments, and shall comply with project specifications.

Zoning

See the following zoning diagram for the mobility building reusing the existing split system fan coils. The existing fan will be reused and rebalanced for the new exhaust CFM needs of the building.

Downtown Admin Building Zoning Diagram with Duct Mains:



1 M2.01 MECHANICAL - LEVEL 01 FLOOR PLAN - MECHANICAL - HVAC
1/4" = 1'-0"

Criteria

Systems will be designed in accordance with the following:

Codes:

- **ANSI Electrical Systems**
- **ANSI 117.1 Accessibility Standard**
- **NFPA-70 (2017 Ed. with Oregon State Amendments)**
- **NFPA-110, Life Safety Code (2019 Ed.)**
- **International Building Code – 2018 Ed.**
- **2019 Oregon Structural Specialty Code**

Standards:

- **ADA – Americans with Disabilities Act**
- **ANSI – American National Standards Institute**
- **ANSI Electrical Systems**
- **ASTM – ASTM International**
- **Oregon Mechanical Code (most recent adopted edition)**
- **Oregon Plumbing Code (most recent adopted edition)**
- **Oregon Fire Code (most recent adopted edition)**
- **CSA – CSA International**
- **DSA – Division of the State Architect**
- **ETL – Electrical Testing Laboratories**
- **IEEE – Institute of Electrical and Electronics Engineers**
- **IES – Illuminating Engineering Society**
- **ISO – International Organization for Standardization**
- **NEC – National Electrical Code**
- **NECA – National Electrical Contractors Association**
- **NEMA – National Electrical Manufacturers Association**
- **NETA – National Electrical Testing Associations**
- **NFPA – National Fire Protection Association**
- **UL – Underwriters Laboratories Inc.**

Energy Code Requirements

The Oregon Energy Code updates require the following measures are achieved for this project:

- Local automatic lighting controls shall be installed within each space being remodeled.

Power – Utility Service

For the Mobility Training Center, the existing 200A MB 120/240V 1ph electrical service and Panel 'A' will remain 'AS-IS'. Existing circuits that are to remain during the remodel are to be safed-off for demo and construction.

Grounding System
The existing grounding electrode system will not be changed for the Mobility Training Center.

Wiring Methods
The existing feeders in the areas of remodel will be removed complete back to the panelboard that serves them. These pathways are not planned for reuse and new conduit and conductors will be installed where required to support new equipment and loads. Minimum conduit size of ¾" to provide for future adds/changes. Feeders and branch circuits will utilize copper conductors with 600Volt THWN/THHN insulation. Conductor size shall be a #12 AWG minimum. Aluminum conductors will not be permitted. Conductors will be sized to limit voltage drop to 1.5% in feeders and 3% in branch circuits. The use of metal clad (MC) cable is not currently planned.

Feeders and branch circuit shall be installed in raceway and shall generally be routed overhead; wiring beneath the slab will be provided only where required to back feed existing to remain loads if the branch circuit were cut during removal of the existing slabs. Galvanized rigid steel conduit or intermediate metal conduit shall be used for feeders, for circuit exposed to physical damage. Otherwise, electrical metallic tubing with steel compression fittings shall be used throughout.

In conference rooms, the power and communications distribution system must be designed to integrate with the architecture, while providing flexibility for the future. These areas will receive recessed multiuse floor boxes featuring power receptacles, data outlets, and AV connections as required. Typical spaces will have receptacles in the wall and branch circuit wiring overhead (above the dropped ceiling tiles).

Wiring Devices
Wiring devices in most areas will be commercial specification grade with thermoplastic cover plates (Architect to determine finish). Ground fault circuit interrupters (5 milliamp) will be provided for all 120 Volt, 20 Amp devices in areas where water is present.

For areas where there is the potential for severe use or unauthorized access to the wiring device or box cavity behind the plate, security grade wall plates will be used (remodeled detention and high security areas). The stainless steel, tamper resistant cover plates virtually eliminate unauthorized access to junction boxes and conductors. An upgraded redundant ground tab is provided to ensure the grounding integrity of the entire installation.

Surge Protection Devices
Surge Protection Devices (SPD) will be provided at the new distribution panelboards to help prevent equipment damage due to spikes in utility voltage.

Lighting
To meet stricter energy code requirements, LED based lighting sources will be used in the Mobility Training Center for consistency and uniformity.

Lighting temperature to be suggested at 3500K, a warm white to provide better color rendering, facial recognition, less eye strain, and a better match to natural daylight. Ultimately the lighting system will address specific "visibility" requirements for the project and each individual space. "Visibility" includes issues such as light quality, officer safety, occupant comfort, as well as aesthetics. A quality lighting system will not only add visual interest to a space, but may also increase employee productivity, performance, and safety. Once the visibility issues have been identified and addressed, the lighting system can be designed to provide maximum energy efficiency.

Our goal is to exceed the energy code requirements by at least 10% for the light systems while meeting the visibility and safety requirements for the County.

Site lighting to be updated on the exterior of the building using vandal resistant LED luminaires in the activity area. Modified parking and driving areas will be reviewed and updated as needed to provide IES recommend lighting levels (footcandles) in these spaces.

Lighting Controls

The Mobility Training Center is to have all new local occupant controls per space typical. All common areas, corridors, and exterior lighting to be controlled by analog control devices and/or astronomical timeclock.

All occupied spaces will also feature automatic lighting controls such as ceiling mounted dual-technology occupancy sensors. These sensors require both motion (ultra-sonic) and heat (IR) to turn on which prevents nuisance tripping. Hallway lighting will automatically turn-off if there is no activity within 30 minutes (adjustable). Private offices will have overhead or wall mounted occupancy sensors for individual control. Small storage closets, janitor rooms, and other spaces under 100 square feet will have wall mounted occupancy sensor switches which also allow for manual off control.

Emergency Lighting
The new egress lighting in the Mobility Center is to be provided by integral battery ballasts to provide 1FC of light levels along egress pathway shown by Architect.

Mechanical/Equipment Connections
Mechanical Equipment connections will be made for all new mechanical equipment by the electrical contractor. All motors 3/4HP and larger will be wired for 208V, 1 phase power. Motors less than 3/4HP will be wired for 120 volt, 1-phase power. Magnetic starters and VFD's will be furnished by the mechanical contractor and installed by the electrical contractor with the necessary power wiring to the starter and from the starter to the motor. All VFD's not integral to the factory assembled equipment will be physically mounted at the equipment by the electrical contractor. Necessary power wiring to the VFD and from the VFD to the motor is to be installed. Refer to the mechanical and plumbing sections of this narrative for equipment descriptions and locations.

Building equipment such as motorized projector screens and motorized window shades (located in the multi-purpose room) will be provided and installed by the electrical contractor.

Labeling
All electrical equipment will be provided with labelling that identifies the equipment name, voltage, power source, arc fault information, etc. Branch panels will be provided with type-written panel directories. All receptacles will be labelled with the panel and circuit number on stick-on labels (typically black lettering on white backgrounds). All junction boxes will be provided with panel name and circuits. An updated single line diagram will be provided in the existing electrical room.

Criteria – Performance Specification

Systems will be designed in accordance with the following:

Codes & Standards:

- **Oregon Building Code (most recent adopted edition)**
- **Oregon Electrical Code (most recent adopted edition)**
- **BICSI TDMM, 12th Edition**
- **ANSI/TIA-568-C.0 Generic Telecommunications Cabling for Customer Premises**
- **ANSI/TIA-568-C.1 Commercial Building Telecommunications Cabling Standard**
- **ANSI/TIA-568-C.2 Balanced Twisted-Pair Telecommunications Cabling and Components Standard**
- **ANSI/TIA-568-C.3 Optical Fiber Cabling Components Standard. Commercial Building Telecommunicating Cabling Standard**
- **ANSI/TIA-569-B Commercial Building Standard for Telecommunications Pathways and Spaces**
- **ANSI/TIA/EIA-606-A Administration Standard for Commercial Telecommunications Infrastructure**
- **ANSI-J-STD-607-A Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications**
- **Local Amendments to above Codes**

A comprehensive system of voice and data outlet boxes and raceway system will be installed to provide pathways from the telecommunications room to all points in the Administration Building and the Mobility Training Center. See SD Drawings for proposed tel/data locations. A minimum conduit size of 3/4" will be provided to every voice and data outlet in the remodel, routed from the device to accessible ceiling space.

Division 26 has rough-in and pathways only for all Division 27 systems. All new systems described below to be provided and installed by approved vendors of RVTD. Additional low voltage requirements to be coordinated between Contractor and Vendor.

Any new CCTV camera locations (design by county's independent contractor) will have backboxes and 1" conduit installed. All outlet boxes are to be 4-11/16" square, by 2-1/8" deep. A cable tray system will be provided along the corridors to serve as the backbone raceway (located above the ceiling tiles).

Performance specifications will be provided for including horizontal 4-pair unshielded twisted pair (UTP) Category 6 voice and data network cabling. Each standard telecommunications outlet (TO) will consist of three Category 6 ports that can be patched as a data port or a voice. All 4-pair cable will terminate at 8-pin, 8-contact Category 6 communication jacks located in the main data rack in the MDF room. Cabling to be labeled on both ends.

Access controlled doors, intrusion door contacts, motion detectors, alarm notification devices, detention grade "pop locks" (electronic remote controlled) and IP Video Surveillance recording system will be provided (expanded off existing system as needed).

The following systems for the Mobility Center have approved, existing vendors for the RVTD. Those systems to include:

- Access Control – Control locking and unlocking and monitoring of selected interior and exterior doors
- Tel/Data: RVTD IT to provide design requirements
- Internet Protocol (IP) Video Surveillance – IP cameras will be placed to monitor both interior and exterior spaces and will work in conjunction with the access control and intrusion system to deter and identify events.
- Intrusion Alarm – external and internal door monitoring for forced entry or door left ajar. During scheduled occupancy all alarms will report to building security system where appropriate action will be determined by officers. System will communicate with CCTV cameras to capture video documentation of events while events are happening.
- A raceway system of conduit, pull string, and outlet boxes will be provided for future adds/changes.
- The minimum conduit size to be 3/4”

Criteria – Performance Specification

The Mobility Center does not require a fire alarm system. If Fire Sprinkler system is installed, sprinkler flow monitoring for compliance with code requirements per AHJ will be necessary

END OF MEP SD NARRATIVE