This addendum forms a part of the Request for Proposal and modifies the original Documents dated **November 14, 2025** as noted below. Acknowledge receipt of this addendum in the space provided on Attachment B – Certifications / Residency Form. Failure to do so may subject the Proposer to disqualification.

QUESTIONS AND CLARIFICATIONS

Question: How many contractors will be selected in total for the Qualifications?

Answer: We will be selecting four contractors in addition to Triplett Wellman that has already been qualified, for a total of five contractors eligible.

REVISION TO QUALIFIED CONTRACTORS- ACROSS ENTIRETY OF DOCUMENT

*Change **all references** of Qualified Contractors as follows:*

*Change **Original***

From: ~~The intent is to pre-qualify four (4) Contractors.~~

To: The intent is to pre-qualify four (4) Contractors, not including Triplett Wellman, for a total of five (5) contractors selected.

ADD ATTACHMENT A: AMITY SCHOOL DISTRICT OFFICE BUILDING PERMIT SET BY FACET ARCHITECTURE*

Add Attachment A: Amity School District Office Building Permit Set by Facet Architecture **in its entirety.**

***Disclaimer**

The attached construction drawings are provided by the District for general reference only to illustrate the general scope and character of the project. These documents are issued strictly for informational purposes as part of the qualifications process.

Proposers shall not rely upon these drawings for estimating, bidding, or construction, and no claim, interpretation, or adjustment based on their content will be considered. The drawings represent the current design at the time of this release but remain subject to revision, clarification, or modification prior to any solicitation of construction pricing.

By accessing or downloading the documents, proposers acknowledge and accept that the District makes no representation or warranty regarding the accuracy, completeness, or current status of the information contained herein and assumes no liability for any use of these materials.

PRE-QUALIFICATION MEETING SIGN IN SHEET

Please review the attached sign in sheet; if corrections are required please send them to courtney.fastenau@hmkco.org

END OF ADDENDUM 1

Attachment A

AMITY SCHOOL
DISTRICT OFFICE BUILDING

PROJECT DIRECTORY

OWNER:
AMITY SCHOOL DISTRICT
807 S TRADE STREET
AMITY, OREGON 97101
PHONE: (503) 835-5050

CIVIL ENGINEER:
WESTECH ENGINEERING, INC.
3841 FAIRVIEW INDUSTRIAL DRIVE SE
SALEM, OREGON 97301
PHONE: (503) 585-2474

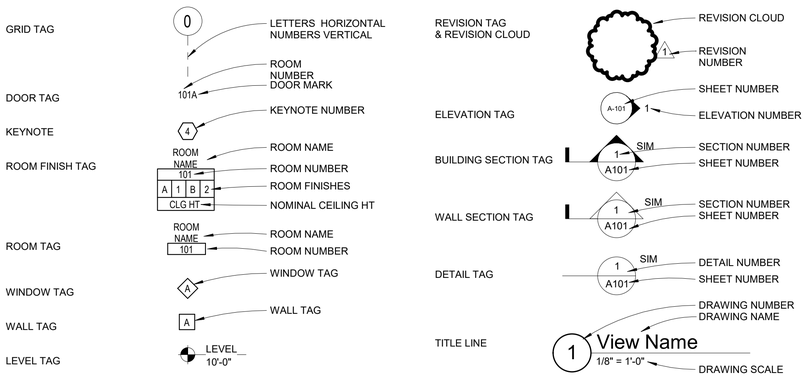
ARCHITECT:
FACET ARCHITECTS
3095 RIVER ROAD N
SALEM, OREGON 97303
PHONE: (503) 390-0281

STRUCTURAL ENGINEER:
MSC ENGINEERING, INC
3470 PIPEBEND PL NE, STE 120
SALEM, OREGON 97301
PHONE: (503) 399-1399

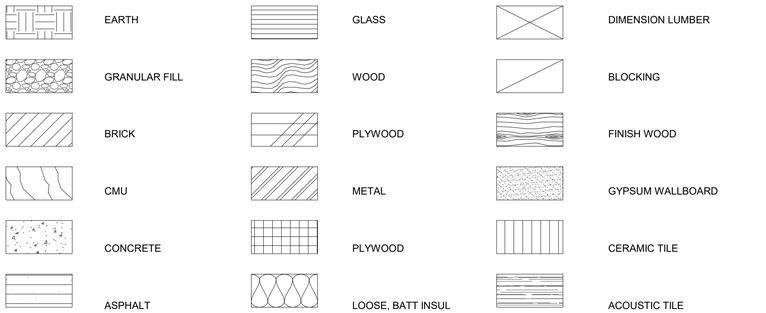
MECHANICAL ENGINEER:
RACI ENGINEERING
38515 PIT ROAD
PHILOMATH, OREGON 97370
PHONE: (541) 929-4222

ELECTRICAL ENGINEER:
LANDIS CONSULTING
6446 FAIRWAY AVENUE SE, STE 220
SALEM, OREGON 97306
PHONE: (503) 584-1576

SYMBOLS LEGEND



MATERIAL REFERENCE



CODE SUMMARY

GOVERNING BUILDING CODE: OSSC 2022 (IBC 2021)

THIS PROJECT COMPRISES REMOVING TWO MODULAR BUILDING AND PROVIDING ONE MODULAR BUILDING IN ITS PLACE AND ADDING PARKING IN FRONT OF THE BUILDING.

ZONING CODE	
PLANNING ZONE	R1 - LOW-DENSITY RESIDENTIAL
PUBLIC SCHOOL - CONDITIONAL USE	
BUILDING HEIGHT	
MAX ALLOWED:	23'-0" AT EAVES
PROPOSED HEIGHT:	11'-6" AT EAVES 19'-1" AT PEAK
PARKING	
MINIMUM PARKING REQUIRED (1/500 SF):	= 6 SPACES
PARKING PROVIDED:	= 7 SPACES

BUILDING CODE	
OCCUPANCY GROUP	B
CONSTRUCTION TYPE	V-B
NEW/EXIST/ADDITION/T.I./REMODEL	NON FIRE SPRINKLERED
ALLOWABLE BUILDING AREA	
(B OCC) BASIC (TYPE) ALLOWABLE	= 9,000 SF
ACTUAL BUILDING AREA	= 2,856 SF
OCCUPANT LOAD	
UNCONCENTRATED AREAS (15 NET)	= 33 OCC
CONCENTRATED AREAS (7 NET)	= 5 OCC
OFFICE AREAS (150 GROSS)	= 9 OCC
STORAGE AREAS (300 GROSS)	= 1 OCC
TOTAL BUILDING OCCUPANT LOAD:	= 48 OCC
MEANS OF EGRESS	
EXITS REQUIRED:	1
EXITS PROVIDED:	3
EXIT WIDTH REQUIRED: FACTORxTOTAL OCC	= 9.6 IN
EXIT WIDTH PROVIDED: # EXITSxWIDTH	= 108 IN
PLUMBING FIXTURES	
BUSINESS AREAS	
WATER CLOSETS REQUIRED:	2
WATER CLOSETS PROVIDED:	2
LAVATORIES REQUIRED:	2
LAVATORIES PROVIDED:	2

INDEX OF DRAWINGS

ABBREVIATIONS

(REFER TO CONSUTANT DRAWINGS FOR ADDITIONAL ABBREVIATIONS)

AB	ANCHOR BOLT
ACST	ACOUSTIC
ADJ	ADJUSTABLE, ADJUST
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATELY
ASPH	ASPHALT
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BM	BENCH MARK, BEAM
BOT	BOTTOM
BUR	BUILT-UP ROOFING
CAB	CABINET
CB	CATCH BASIN, CORNER BEAD
CG	CORNER GUARD
CHBD	CHALKBOARD
CI	CAST IRON
CJ	CONTROL JOINT
CLG	CEILING
CLR	CLEAR, CLEARANCE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONT	CONTINUOUS, CONTINUE
CONTR	CONTRACTOR
CNTR	COUNTER
CRS	COURSE, COURSES
CSK	COUNTERSINK, COUNTERSUNK
CW	COLD WATER
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DIV	DIVIDE, DIVIDED, DIVISION
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
E	EAST
EA	EACH
EF	EXHAUST FAN
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR
ENCL	ENCLOSURE
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXIST	EXISTING
EXP B	EXPANSION BOLT
EXT	EXTERIOR
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FH	FIRE HYDRANT
FHWS	FLATHEAD WOOD SCREW
FIN	FINISH, FINISHED
FIN FLR	FINISHED FLOOR
FL	FLOOR
FLASH	FLASHING
FTG	FOOTING
FOS	FACE OF STUD
GA	GAGE
GALV	GALVANIZED
GB	GRAB BAR
GL	GLASS
GLB	GLU-LAM BEAM
GYP BD	GYPSUM BOARD
HB	HOSE BIBB
HCP	HANDICAP, HOLLOW CORE
HDR	HEADER
HDW	HARDWARE
HC	HOLLOW CORE
HORIZ	HORIZONTAL
HS	HOLLOW STEEL, HIGH STRENGTH
HT	HEIGHT
HVAC	HEATING VENTILATING AIR CONDITIONING
HW	HOT WATER
INSUL	INSULATE, INSULATED, INSULATION
INT	INTERIOR
INV	INVERT
JAN	JANITOR
J-BOX	JUNCTION BOX
JST	JOIST
JT	JOINT
KD	KNOCKED DOWN
LAM	LAMINATE
LAV	LAVATORY
LS	LANDSCAPING
LT	LIGHT
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MI	MIRROR
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MT	MOUNT
MTL	METAL
N	NORTH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NUMBER
NTS	NOT TO SCALE
OA	OVERALL OUTSIDE AIR
OBS	OBSCURE
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED-CONTRACTOR INSTALLED
OH	OVERHEAD
OPG	OPENING
OFOI	OWNER FURNISHED-OWNER INSTALLED
OPP	OPPOSITE
PAF	POWDER ACUATED FASTNER
PBD	PARTICLE BOARD
PL	PROPERTY LINE, PLATE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PR	PAIR
PRKG	PARKING
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PT	POINT
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QUAL	QUALITY
R	RADIUS, RISER
RC	RESILIENT CHANNEL
RD	ROOF DRAIN
RECEP	RECEPTACLE
REF	REFERENCE, REFRIGERATOR
REINF	REINFORCE, REINFORCEMENT
REQD	REQUIRED
REV	REVISION, REVISED
RHWS	ROUND HEAD WOOD SCREW
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
S	SOUTH
SC	SOLID CORE
SCR	SCREW
SD	SOAP DISPENSER, SMOKE DETECTOR, STORM DRAIN
SF	SQUARE FOOT
SHTHG	SHEATHING
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION, SPECIFIED
SPKR	SPEAKER
SQ	SQUARE
SSK	SERVICE SINK
SST	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUC	STRUCTURE, STRUCTURAL
SUSP	SUSPENDED
T	TEMPERED, TREAD
TEL	TELEPHONE
T&G	TONGUE & GROOVE
THK	THICK, THICKNESS, THICKENED
TOC	TOP OF CURB
TPD	TOILET PAPER DISPENSER
TYP	TYPICAL
ULMT	UNDERLAYMENT
UON	UNLESS OTHERWISE NOTED
UR	URINAL
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VNR	VENEER
VTR	VENT THROUGH ROOF
WAINS	WAINSCOT
W	WEST, WIDE, WIDTH
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WH	WATER HEATER
W/O	WITHOUT
WP	WATERPROOFING
WT	WEIGHT
WWF	WELDED WIRE

SYMBOLS USED AS ABBREVIATIONS

@	AT
℄	CENTERLINE
°	DEGREE
±	PLUS/MINUS

FACET ARCHITECTS
Formerly Carlson Veit Junge Architects
3095 River Road N Salem, OR 97303 / 503.390.0281

REGISTERED ARCHITECT
ANGELA M. FLORES
SALEM, OREGON
STATE OF OREGON

project:
AMITY SCHOOL DISTRICT
DISTRICT OFFICE BUILDING
503 OAK AVENUE
AMITY, OREGON 97101

consultants:

revisions:

#	Description	Date

date: 10-03-25
project: 01825
drawn by: PK
checked by: AF

TITLE SHEET

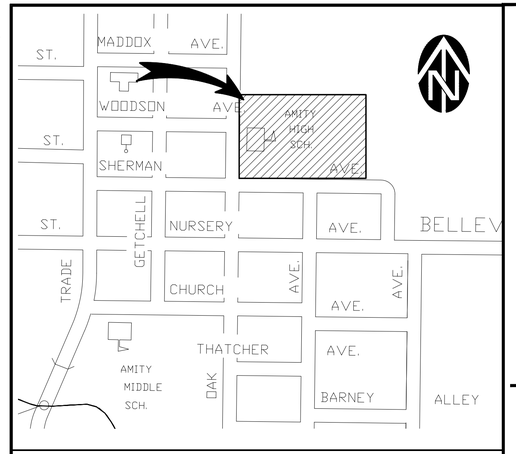
sheet: G-001
of:

Attachment A

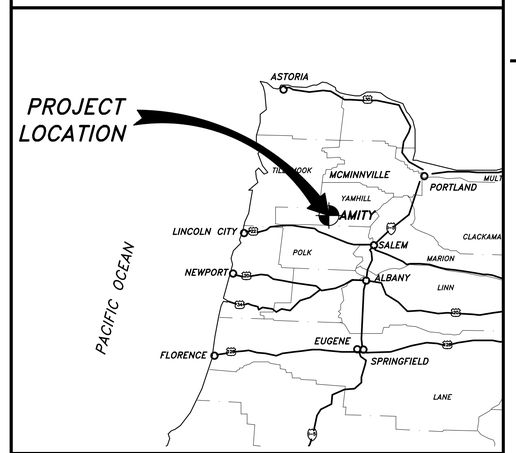
DRAWINGS FOR:

AMITY HS BUILDING ADDITION
503 OAK AVE
AMITY, OR 97101

PROJECT LOCATION
TAX LOT #R5420DC 07800
#063W350000400
SEC20, T5S, R4W., W.M.



VICINITY MAP



LOCATION MAP

SHEET LIST TABLE

#	SHEET TITLE
C0.0	COVER, INDEX, & LOCATION MAPS
C1.0	PRE-DEVELOPMENT EROSION CONTROL PLAN
C1.1	POST-DEVELOPMENT EROSION CONTROL PLAN
C1.2	EROSION CONTROL NOTES & DETAILS
C2.0	GRADING & DRAINAGE PLAN
C3.0	UTILITY PLAN
C4.0	SURFACING PLAN
C5.0	CONSTRUCTION NOTES
C5.1	CONSTRUCTION NOTES
C6.0	CONSTRUCTION DETAILS
C6.1	CONSTRUCTION DETAILS

BENCHMARK INFO

HORIZONTAL DATUM:
THE HORIZONTAL DATUM IS THE OREGON COORDINATE REFERENCE SYSTEM, SALEM ZONE, USING THE NAD 83(2011) EPOCH: 2010.00 DATUM REALIZATION.

VERTICAL DATUM:
DATUM: NAVD88 ESTABLISHED BY GEODETIC OBSERVATIONS ON MULTIPLE CONTROL POINTS USING THE TRIMBLE VRS NOW NETWORK AND GEOID12A.

EASEMENT STATEMENT:
A TITLE REPORT PROVIDED BY FIRST AMERICAN TITLE INSURANCE COMPANY, PREPARED SEPTEMBER 7, 2022, ORDER NUMBER 1039-3992215, DOES NOT IDENTIFY ANY EASEMENTS OF RECORD.

FOR:

FACET ARCHITECTS
3095 RIVER RD N
SALEM, OR 97303

ITEM	PROPOSED	EXISTING
SANITARY SEWER		SS
STORM DRAIN		SD
WATER		W
GAS		G
TELEPHONE		T
POWER		P
TELEVISION		TV
FENCE	X X	X X
RAILROAD		
CURB, DRIVEWAY, P.C.C. SIDEWALK		
HEDGE OR BRUSH		
TREES		
STREET OR ALLEY RIGHT OF WAY		
PLATTED LOT LINE		
PLATTED LOT LINE (ABANDONED)		
OWNERSHIP LINE		
EASEMENT OR TEMPORARY RIGHT OF WAY		
IMPROVEMENT DISTRICT BOUNDARY		
PROJECT CENTERLINE AND STATIONING	2 3 4 5+00	
CITY LIMITS LINE		

BARRICADE		
FLOW DIRECTION		
TELEPHONE MANHOLE		T
TELEPHONE PEDESTAL		TEL
SANITARY SEWER MANHOLE	S	S
STORM DRAIN MANHOLE	D	D
CATCH BASIN		
JUNCTION BOX		
FIRE HYDRANT AND VALVE		
WATER METER		
WATER VALVE		
POWER POLE		
POWER POLE W/ANCHOR		
POLE W/LUMINARE		
LIGHT POLE		
SIGN POST		
MAILBOX		
TRAFFIC SIGNAL		T.S
X-WALK SIGNAL		X-WK

SYMBOLS

AD AREA DRAIN
CB or CI CATCH BASIN
CO CLEANOUT
FIRE HYDRANT
GV GAS VALVE
WV WATER VALVE
GPW GAS/POWER/WATER METER
DSO DOWN SPOUT
T MANHOLE TELEPHONE
D MANHOLE STORM DRAIN
S MANHOLE SANITARY SEWER
SIGN POST
PED PEDESTAL
MAIL BOX
IV IRRIGATION VALVE
LIGHT POLE
UTILITY/POWER POLES
TP TEST PIT
MONUMENT FOUND

TREES - *TREENAME* DIAMETER (INCHES)/DRIP RADIUS (FEET)
NOTE: DIAMETER MEASURED AT BREAST HEIGHT

LINE TYPES

CATV LINE
COMMUNICATION LINE
EASEMENT LINE
FENCE LINE
FIBER OPTIC LINE
GAS LINE
EDGE OF GRAVEL LINE
OVERHEAD LINE
PHONE LINE
POWER LINE
SANITARY SEWER LINE
STORM DRAIN LINE
WATER LINE

ABBREVIATIONS

ASPH	ASPHALT
AD	AREA DRAIN
ASSY	ASSEMBLY
BLDG, BLD	BUILDING
BW	BOTTOM OF WALL
CATV	CABLE TELEVISION
CB	CATCH BASIN
CO	CLEAN-OUT
CONC	CONCRETE
CL, ℄	CENTERLINE
DIP	DUCTILE IRON PIPE
EG	EDGE OF GRAVEL
EOP, EP	EDGE OF PAVEMENT
ELEV	ELEVATION
EX, EXIST	EXISTING
FDC	FIRE DEPT. CONNECTOR
FT	FEET
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FI	FIELD INLET
FM	FORCE MAIN
GRAV	GRAVEL
GM	GAS METER
GP	GATE POST
GS	GROUND SHOT
GV	GAS VALVE
HC	HANDICAP
HYD	HYDRANT
IR	IRON ROD
IP	IRON PIPE
IRR	IRRIGATION
INV	INVERT
JB	JUNCTION BOX
LP	LIGHT POLE
M	METER, MAIN
MB	MAILBOX
MH	MANHOLE
OH	OVER-HEAD
P/L, P	PROPERTY LINE
PP	POWER POLE
PVC	POLYVINYL CHLORIDE
PWR	POWER
R, RAD	RADIUS
RPB	RAISED PLANTER BOX
ROW, R/W	RIGHT-OF-WAY
SS	SANITARY SEWER
SD	STORM DRAIN
SVC	SERVICE
SWK, S/W	SIDEWALK
TC	TOP OF CURB
TEL	TELEPHONE
TR	TRANSFORMER
TS	TRAFFIC SIGNAL
TW	TOP OF WALL
TYP	TYPICAL
UG, U/G	UNDER GROUND
UTIL	UTILITY
VLT	VAULT
W/	WITH
WM	WATER METER
WLM	WETLANDS MARKER
YPC	YELLOW PLASTIC CAP

811
Know what's below.
Call before you dig.

FACET ARCHITECTS
Formerly Carlson Veit Junge Architects
3095 River Road N Salem, OR 97303 / 503.390.0281

REGISTERED PROFESSIONAL ENGINEER
76415PE
DIGITALLY SIGNED
OREGON
NOV. 12, 2009
WILLIAM J. WELLS
RENEWS: 6/30/2026

WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS AND PLANNERS
3841 Fairview Industrial Dr. S.E., Suite 100, Salem, OR 97302
Phone: (503) 585-2474 Fax: (503) 585-3986
E-mail: westech@westech-eng.com

project:
AMITY SCHOOL DISTRICT
DISTRICT OFFICE BUILDING
503 OAK AVENUE
AMITY, OR 97101

consultants:

revisions:
1 ----
---

date: 10.03.25
project: 3577.0000.0
dwg file:
drawn by: AK
checked by: JW

COVER, INDEX, & LOCATION MAPS

sheet: C0.0
of:

Attachment A

0 5 10 20
(feet)

EROSION CONTROL LEGEND

- BIO–BAG
- SILT FENCE
- SILT SACK

DEMOLITION LEGEND

- (P) PROTECT
- (R) REMOVE
- (R1) CONTRACTOR TO COORDINATE W/ CITY FORCES TO ABANDON EXT'G DOMESTIC WATER METER
- (S) SAWCUT

NOTES

1. NO STOCKPILES OR CONCRETE WASHOUTS ALLOWED ON SITE.

OAK AVENUE

FORCED MAIN

SHERMAN AVENUE

DESIGN BY OTHERS
DESIGN GRADES SHOWN
HERE FOR COORDINATION

DESIGN BY OTHERS
DESIGN GRADES SHOWN
HERE FOR COORDINATION

EXISTING MODULAR BUILDING
F.F. = 166.02'

EXISTING MODULAR BUILDING
F.F. = 165.89'

INSTALL SILT SACKS AT
ALL DOWNSTREAM CB'S

20.00'

20.00'

20.75'

SDMH 05
R=162.43
16" IE IN (N)=156.96
12" IE IN (E)=157.06
16" IE OUT (S)=156.96

SDCB
R=161.18
10" IE (SE)=158.97

SDMH
R=161.88
16" IE (N)=156.18
8" IE (E)=156.7
16" IE (S)=156.18
8" IE (W)=157.03

SDCB
R=161.34
6" IE (E)=159.14
4" IE (S)=159.88

SDMH
R=162.09
8" IE (N)=154.75
8" IE (E)=155.05
8" IE (S)=154.63
8" IE (W)=155.72

SDCB
R=162.14
NO IE'S LISTED

SDCB
R=162.42
24" IE (N)=159.62
NO IE'S LISTED

FACET ARCHITECTS
Formerly Carlson Veit Junge Architects
3095 River Road N Salem, OR 97303 / 503.390.0281

REGISTERED PROFESSIONAL ENGINEER
76415PE
DIGITALLY SIGNED
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project:
AMITY SCHOOL DISTRICT
DISTRICT OFFICE BUILDING
503 OAK AVENUE
AMITY, OR 97101

consultants:

revisions:
1 ----
---

date: 10.03.25
project: 3577.0000.0
dwg file:
drawn by: AK
checked by: JW

PRE-DEVELOPMENT
EROSION
CONTROL PLAN

sheet:
C1.0
of:

10/7/2025 1:34:34 PM
C:\Users\akenyon\Desktop\Work (PC)\Projects\Facet Arch (FKA Carlson Veit)\Amity HS Module\Civil\Plots\C1.0 - EC Plan-Demo & Clearing.dwg, (C1.0 tab)

Attachment A

0 5 10 20
(feet)

EROSION CONTROL LEGEND

- BIO–BAG
- SILT FENCE
- SILT SACK

ALL DISTURBED AREAS SHALL BE HYDROSEEDED OR LANDSCAPED.

DESIGN BY OTHERS
DESIGN GRADES SHOWN
HERE FOR COORDINATION

TAP EXT'G SDMH
@ IE=160.77

SDCB
R=162.20
IE=160.87

SDCB
R=162.42
NO IE'S LISTED

SDMH 05
R=162.43
16" IE IN (N)=156.96
12" IE IN (E)=157.06
16" IE OUT (S)=156.96

SDMH
R=162.43
8" IE IN (E)=155.96
4" IE IN (E)=155.96
8" IE OUT (S)=155.96

OAK AVENUE

FORCED MAIN

FLUSH CURB

TC=FG
163.31

TC=FG
163.20

FG=162.85

TC=163.20
FG=162.70

TC=163.50

TC=163.60
FG=163.10

TC=163.15

FF=163.36

20.00'

20.00'

DESIGN BY OTHERS
DESIGN GRADES SHOWN
HERE FOR COORDINATION

AD
R=162.50
IE=161.44

SDCB
R=161.34
6" IE (E)=159.14
4" IE (S)=159.88

SDCB
R=161.18
10" IE (SE)=158.97

SDMH
R=161.88
16" IE (N)=156.18
8" IE (E)=156.7
16" IE (S)=156.18
8" IE (W)=157.03

SSMH
R=162.09
8" IE (N)=154.75
8" IE (E)=155.05
8" IE (S)=154.63
8" IE (W)=155.72

20.75'

INSTALL SILT SACKS AT
ALL DOWNSTREAM CB'S

SHERMAN AVENUE

DESIGN BY OTHERS
DESIGN GRADES SHOWN
HERE FOR COORDINATION

FACET ARCHITECTS
Formerly Carlson Veit Junge Architects
3095 River Road N Salem, OR 97303 / 503.390.0281

REGISTERED PROFESSIONAL ENGINEER
76415PE
DIGITALLY SIGNED
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Phone: (503) 585-2474 Fax: (503) 585-3986
E-mail: westech@westech-eng.com

project:
AMITY SCHOOL DISTRICT
DISTRICT OFFICE BUILDING
503 OAK AVENUE
AMITY, OR 97101

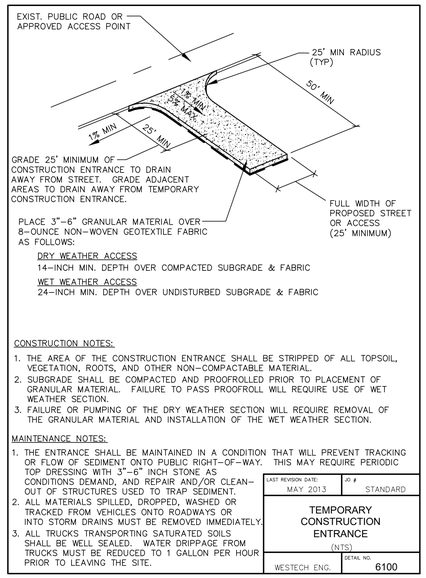
consultants:

revisions:
1 ----
---

date: 10.03.25
project: 3577.0000.0
dwg file:
drawn by: AK
checked by: JW

POST-DEVELOPMENT
EROSION
CONTROL PLAN

sheet:
C1.1
of:



CONSTRUCTION NOTES:

1. THE AREA OF THE CONSTRUCTION ENTRANCE SHALL BE STRIPPED OF ALL TOPSOIL, VEGETATION, ROOTS, AND OTHER NON–COMPACTABLE MATERIAL.
2. SUBGRADE SHALL BE COMPACTED AND PROOFROLLED PRIOR TO PLACEMENT OF GRANULAR MATERIAL. FAILURE TO PASS PROOFROLL WILL REQUIRE USE OF WET WEATHER SECTION.
3. FAILURE OR PUMPING OF THE DRY WEATHER SECTION WILL REQUIRE REMOVAL OF THE GRANULAR MATERIAL AND INSTALLATION OF THE WET WEATHER SECTION.

MAINTENANCE NOTES:

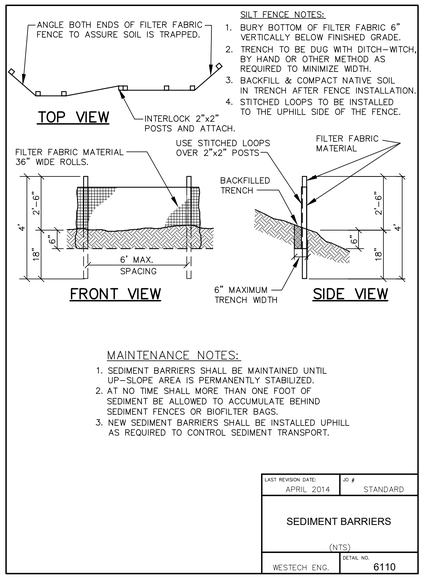
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF SEDIMENT ONTO PUBLIC RIGHT–OF–WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 3"–6" INCH STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN–OUT OF STRUCTURES USED TO TRAP SEDIMENT.
2. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
3. ALL TRUCKS TRANSPORTING SATURATED SOILS SHALL BE WELL SEALED. WATER DRIPPAGE FROM TRUCKS MUST BE REDUCED TO 1 GALLON PER HOUR PRIOR TO LEAVING THE SITE.

LAST REVISION DATE:	JO #
MAY 2013	STANDARD

TEMPORARY CONSTRUCTION ENTRANCE

(NTS)

WESTECH ENG.	DETAIL NO.
	6100



SILT FENCE NOTES:

1. BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE.
2. TRENCH TO BE DUG WITH DITCH–WITCH, BY HAND OR OTHER METHOD AS REQUIRED TO MINIMIZE WIDTH.
3. BACKFILL & COMPACT NATIVE SOIL IN TRENCH AFTER FENCE INSTALLATION.
4. STITCHED LOOPS TO BE INSTALLED TO THE UPHILL SIDE OF THE FENCE.

MAINTENANCE NOTES:

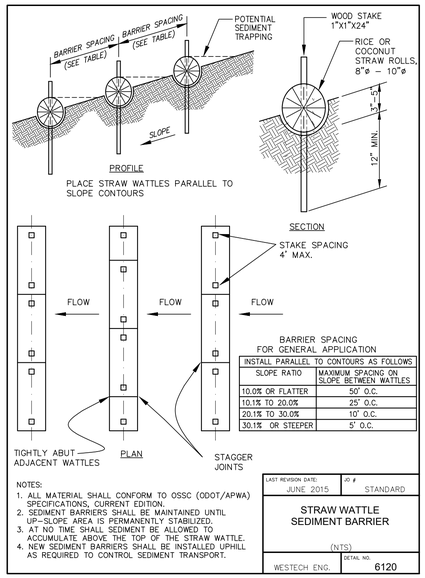
1. SEDIMENT BARRIERS SHALL BE MAINTAINED UNTIL UP–SLOPE AREA IS PERMANENTLY STABILIZED.
2. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE BEHIND SEDIMENT FENCES OR BIOFILTER BAGS.
3. NEW SEDIMENT BARRIERS SHALL BE INSTALLED UPHILL AS REQUIRED TO CONTROL SEDIMENT TRANSPORT.

LAST REVISION DATE:	JO #
APRIL 2014	STANDARD

SEDIMENT BARRIERS

(NTS)

WESTECH ENG.	DETAIL NO.
	6110



BARRIER SPACING FOR GENERAL APPLICATION

INSTALL PARALLEL TO CONTOURS AS FOLLOWS

SLOPE RATIO	MAXIMUM SPACING ON SLOPE BETWEEN WATTLES
10.0% OR FLATTER	50' O.C.
10.1% TO 20.0%	25' O.C.
20.1% TO 30.0%	10' O.C.
30.1% OR STEEPER	5' O.C.

NOTES:

1. ALL MATERIAL SHALL CONFORM TO OSSC (ODOT/APWA) SPECIFICATIONS, CURRENT EDITION.
2. SEDIMENT BARRIERS SHALL BE MAINTAINED UNTIL UP–SLOPE AREA IS PERMANENTLY STABILIZED.
3. AT NO TIME SHALL SEDIMENT BE ALLOWED TO ACCUMULATE ABOVE THE TOP OF THE STRAW WATTLE.
4. NEW SEDIMENT BARRIERS SHALL BE INSTALLED UPHILL AS REQUIRED TO CONTROL SEDIMENT TRANSPORT.

LAST REVISION DATE:	JO #
JUNE 2015	STANDARD

STRAW WATTLE SEDIMENT BARRIER

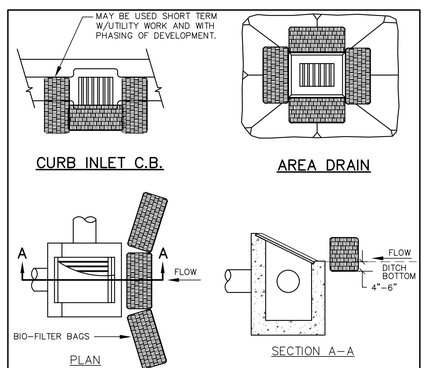
(NTS)

WESTECH ENG.	DETAIL NO.
	6120

EROSION CONTROL NOTES:

1. Clearing and grading erosion control measures shall be in place prior to site disturbance. All other necessary erosion control measures shall be implemented prior to starting work on the portion/phase of the project to which the measures are related. Erosion control measures shall be maintained in such a manner as to ensure that sediment and sediment–laden water does not enter the drainage system, roadways, or violate applicable water quality standards.
2. The erosion control construction, maintenance, replacement and upgrading of the erosion control facilities is the responsibility of the contractor until all construction is completed and approved, and permanent erosion control (i.e. vegetation/landscaping) is established on all disturbed areas.
3. All recommended erosion control procedures are dependent on construction methods, staging, site conditions, weather and scheduling. During the construction period, erosion control facilities shall be upgraded as necessary due to unexpected storm events and to ensure that sediment and sediment laden water does not leave the site.
4. The contractor is responsible for control of sediment transport. If an installed erosion control system does not adequately contain sediment on site, then the erosion control measures shall be adjusted or supplemented by the contractor as necessary to ensure that sediment laden water does not leave the site. Additional measures shall be provided as required to ensure that all paved areas are kept clean for the duration of the project. Additional interim measures will include, at a minimum, installation of silt fences in accordance with the details shown on the drawings. These measures shall be installed along all exposed embankments and cut slopes to prevent sediment transport.
5. All existing and newly constructed storm inlets and drains shall be protected until pavement surfaces are completed and/or vegetation is established.
6. Erosion control facilities and sediment fences on active sites shall be inspected by the contractor at least daily during any period with measurable precipitation. Any required repairs or maintenance shall be completed immediately. The erosion control facilities on inactive sites shall be inspected and maintained by the contractor a minimum of once a month or within 24 hours following the start of a storm event.
7. All catch basins and conveyance lines shall be cleaned prior to paving. The cleaning operation shall not flush sediment–laden water into the downstream system. The contractor shall remove all accumulated sediment from all impacted catch basins and storm pipes prior to acceptance by the Owner.
8. The contractor is solely responsible for protection of all adjacent property and downstream facilities from erosion and siltation during project construction. Any damage resulting from such erosion and siltation shall be corrected at the sole expense of the contractor.
9. Locate any portable toilets away from waters of the state and stormwater inlets or conveyances. Position portable toilets so they are secure and will not be tipped or knocked over.
10. The contractor shall provide site watering as necessary to prevent wind erosion of fine–grained soils.
11. Unless otherwise indicated on the drawings, all temporary erosion control facilities, including sediment fences, silt sacks, bio–bags, etc. shall be removed within 30 days after permanent landscaping/vegetation is established.
12. Sediment fences shall be constructed of continuous filter fabric to avoid use of joints. When joints are necessary, filter cloth shall be spliced together only at a support post, with a minimum 6–inch overlap, and both ends securely fastened to a post.
13. Sediment fence shall be installed per drawing details. Sediment fences shall have adequate support to contain all silt and sediment captured.
14. The standard strength filter fabric shall be fastened securely to stitched loops installed on the upslope side of the posts, and 6 inches of the fabric shall be extended into the trench. The fabric shall not extend more than 30 inches above the original ground surface. Filter fabric shall not be stapled to existing trees.
15. Bio–filter bags shall be clean 100 percent wood product waste. Bags shall be 18–inch x 18–inch x 30–inch, weigh approximately 45 lbs., and be contained in a bag made of 1/2–inch plastic mesh.
16. Sediment barriers shall be maintained until the up–slope area has been permanently stabilized. At no time shall more than 10–inches of sediment be allowed to accumulate behind sediment fences. No more than 2 inches of sediment shall be allowed to accumulate behind bio–filter bags. Sediment shall be removed prior to reaching the above stated depths. New sediment barriers shall be installed uphill as required to control sediment transport.
17. Stabilized construction entrances shall be installed at the beginning of construction and maintained for the duration of the project. Additional measures may be required to ensure that all paved areas are kept clean for the duration of the project.
19. The entrance shall be maintained in a condition that will prevent tracking or flow of mud onto the public right–of–way or approved access point. The entrance may require periodic top dressing as conditions demand, and repair and/or cleanout of any structures used to trap sediment.
18. The contractor shall verify that all trucks are well sealed when transporting saturated soils from the site. Water drippage from trucks transporting saturated soils must be reduced to less than 1 gallon per hour prior to leaving the site.
20. All materials spilled, dropped, washed, or tracked from vehicles onto roadways or into storm drains must be removed immediately, and protection provided for downstream inlets and catch basins to ensure sediment laden water does not enter the storm drain system.
21. Temporary grass cover measures must be fully established by October 15th, or other cover measures (i.e. erosion control blankets with anchors, 3–inches minimum of straw mulch, 6 mil HDPE plastic sheet, etc.) shall be in place over all disturbed soil areas until April 30th. To establish an adequate grass stand for controlling erosion by October 15th, it is recommended that seeding and mulching occur by September 1st. Straw mulch, if used, shall not leave any bare ground visible through the straw.
22. Minimum slope protection. For slopes steeper than 3H:1V but less than 2H:1V, use Tensar/North American Green Type S150 erosion control blanket. For slopes 2H:1V or steeper, use Tensar/North American Green Type SC150 erosion control blanket. Use a minimum of 2–inches straw mulch or Tensar/North American Green Type S150 for slopes flatter than 3H:1V. Slope protection shall be placed on all disturbed areas immediately after completion of each section of construction activity, until the erosion control seeding has been established. As an option during temporary or seasonal work stoppages, a 6–mil HDPE plastic sheet may be placed on exposed slopes. The plastic sheet shall be provided with an anchor trench at the top and bottom of the slope, and shall be sandbagged on the slopes as required to prevent damage or displacement by wind.
23. Permanent erosion control vegetation on all embankments and disturbed areas shall be re–established as soon as construction is completed.
24. Soil preparation. Topsoil should be prepared according to landscape plans, if available, or recommendations of grass seed supplier. It is recommended that slopes be textured before seeding by rack walking (i.e. driving a crawling tractor up and down the slopes to leave a pattern of cleat imprints parallel to slope contours) or other method to provide stable areas for seeds to rest.
25. When used, hydromulch shall be applied with grass seed at a rate of 2000 lbs. per acre between April 30 and June 10, or between September 1 and October 1. On slopes steeper than 10 percent, hydroseed and mulch shall be applied with a bonding agent (tackifier). Application rate and methodology to be in accordance with seed supplier recommendations.
26. When used in lieu of hydromulch, dry, loose, weed free straw used as mulch shall be applied at a rate of 4000 lbs. per acre (double the hydromulch application requirement). Anchor straw by working in by hand or with equipment (rollers, cleat trackers, etc.). Mulch shall be spread uniformly immediately following seeding.
27. When conditions are not favorable to germination and establishment of the grass seed, the seeded and mulched areas shall be irrigated as required to establish the grass cover.
28. Seeding. Recommended erosion control grass seed mix is as follows. Dwarf grass mix (low height, low maintenance) consisting of dwarf perennial ryegrass (80 % by weight), creeping red fescue (20 % by weight). Application rate shall be 100 lbs. per acre minimum.
29. Grass seed shall be fertilized at a rate of 10 lbs. per 1000 S.F with 16–16–16 slow release type fertilizer. Development areas within 50 feet of water bodies and wetlands must use a non–phosphorous fertilizer.

Last Revised: 04–29–25 (for less than 1 acre)



MAINTENANCE NOTES:

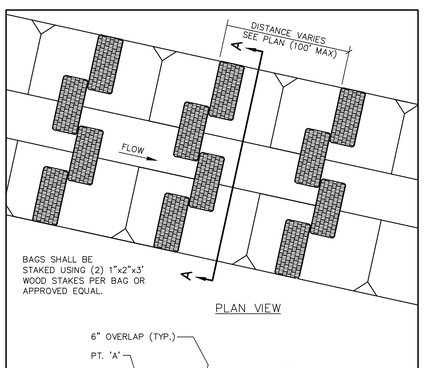
1. SEDIMENT BARRIERS SHALL BE MAINTAINED UNTIL UP–SLOPE AREA IS PERMANENTLY STABILIZED.
2. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE BEHIND SEDIMENT FENCES OR BIOFILTER BAGS.
3. NEW SEDIMENT BARRIERS SHALL BE INSTALLED UPHILL AS REQUIRED TO CONTROL SEDIMENT TRANSPORT.

LAST REVISION DATE:	JO #
APRIL 2014	STANDARD

INLET SEDIMENT CONTROL

(NTS)

WESTECH ENG.	DETAIL NO.
	6130



MAINTENANCE NOTES:

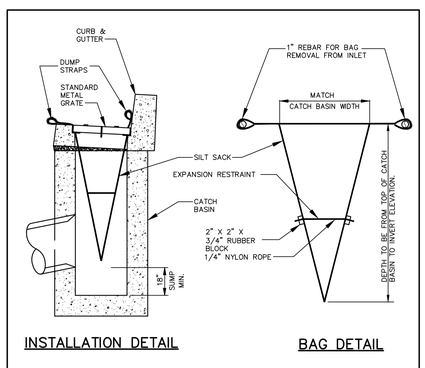
1. SEDIMENT BARRIERS SHALL BE MAINTAINED UNTIL UP–SLOPE AREA IS PERMANENTLY STABILIZED.
2. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE BEHIND BIOFILTER BAGS.
3. NEW SEDIMENT BARRIERS SHALL BE INSTALLED UPHILL AS REQUIRED TO CONTROL SEDIMENT TRANSPORT.
4. PT. 'A' SHALL BE 6" MIN. HIGHER THAN PT. 'B'.

LAST REVISION DATE:	JO #
APRIL 2014	STANDARD

DITCH AND SWALE EROSION PROTECTION

(NTS)

WESTECH ENG.	DETAIL NO.
	6140



NOTES:

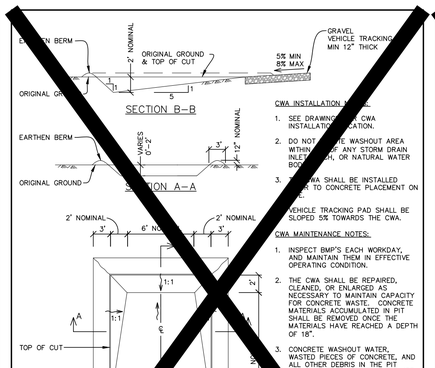
1. EMPTY SILT SACK AS NECESSARY.
2. SILTSACK SEDIMENT CONTROL DEVICE AS MANUFACTURED BY ACF ENVIRONMENTAL AND SUPPLIED BY ACF WEST (503) 771–5115 OR APPROVED EQUAL.

LAST REVISION DATE:	JO #
OCT 2002	STANDARD

SILTSACK INLET DETAIL

(NTS)

WESTECH ENG.	DETAIL NO.
	6150



CWA INSTALLATION NOTES:

1. SEE DRAWING FOR CWA INSTALLATION.
2. DO NOT LOCATE WASHOUT AREA WITHIN 50' OF ANY STORM DRAIN INLET, DITCH, OR NATURAL WATER BODY.
3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
4. VEHICLE TRACKING PAD SHALL BE SLOPED 5% TOWARDS THE CWA.

CWA MAINTENANCE NOTES:

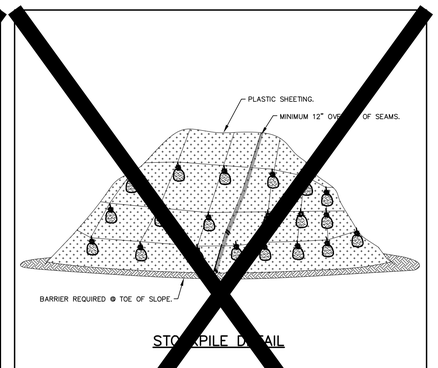
1. INSPECT BMP'S EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION.
2. THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS ACCUMULATED IN PIT SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 18".
3. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE, AND ALL OTHER DEBRIS IN THE PIT SHALL BE REMOVED FROM THE JOB SITE.
4. THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
5. WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

LAST REVISION DATE:	JO #
APR 2021	STANDARD

TEMPORARY CONCRETE WASHOUT AREA (CWA)

(NTS)

WESTECH ENG.	DETAIL NO.
	WE610



NOTES:

1. MINIMUM 12" OVERLAP OF ALL SEAMS REQUIRED.
2. SEDIMENT BARRIER REQUIRED @ TOE OF STOCK PILE.
3. COVER TO BE MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TIRES ON ROPES WITH A MAXIMUM 10' GRID SPACING IN ALL DIRECTIONS.
4. USE PLASTIC SHEETING TO EXTEND A MINIMUM OF 12" PAST THE BOTTOM OF THE PILE ONTO THE SURROUNDING GRADE ON ALL SIDES.

LAST REVISION DATE:	JO #
JAN 2019	STANDARD

STOCKPILE DETAIL

(NTS)

WESTECH ENG.	DETAIL NO.
	6170

FACET ARCHITECTS
Formerly Carlson Veit Junge Architects
3095 River Road N Salem, OR 97303 / 503.390.0281

REGISTERED PROFESSIONAL ENGINEER
76415PE
OREGON
NOV. 12, 2008
WILLIAM J. WELLS
RENEWS: 6/30/2026
DIGITALLY SIGNED

WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS AND PLANNERS
3841 Fairview Industrial Dr. S.E., Suite 100, Salem, OR 97302
Phone: (503) 585–2474 Fax: (503) 585–3986
E–mail: westech@westech–eng.com

project:
AMITY SCHOOL DISTRICT
DISTRICT OFFICE BUILDING
503 OAK AVENUE
AMITY, OR 97101

consultants:

revisions:
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date: 10.03.25
project: 3577.0000.0
dwg file:
drawn by: AK
checked by: JW

EROSION CONTROL NOTES & DETAILS

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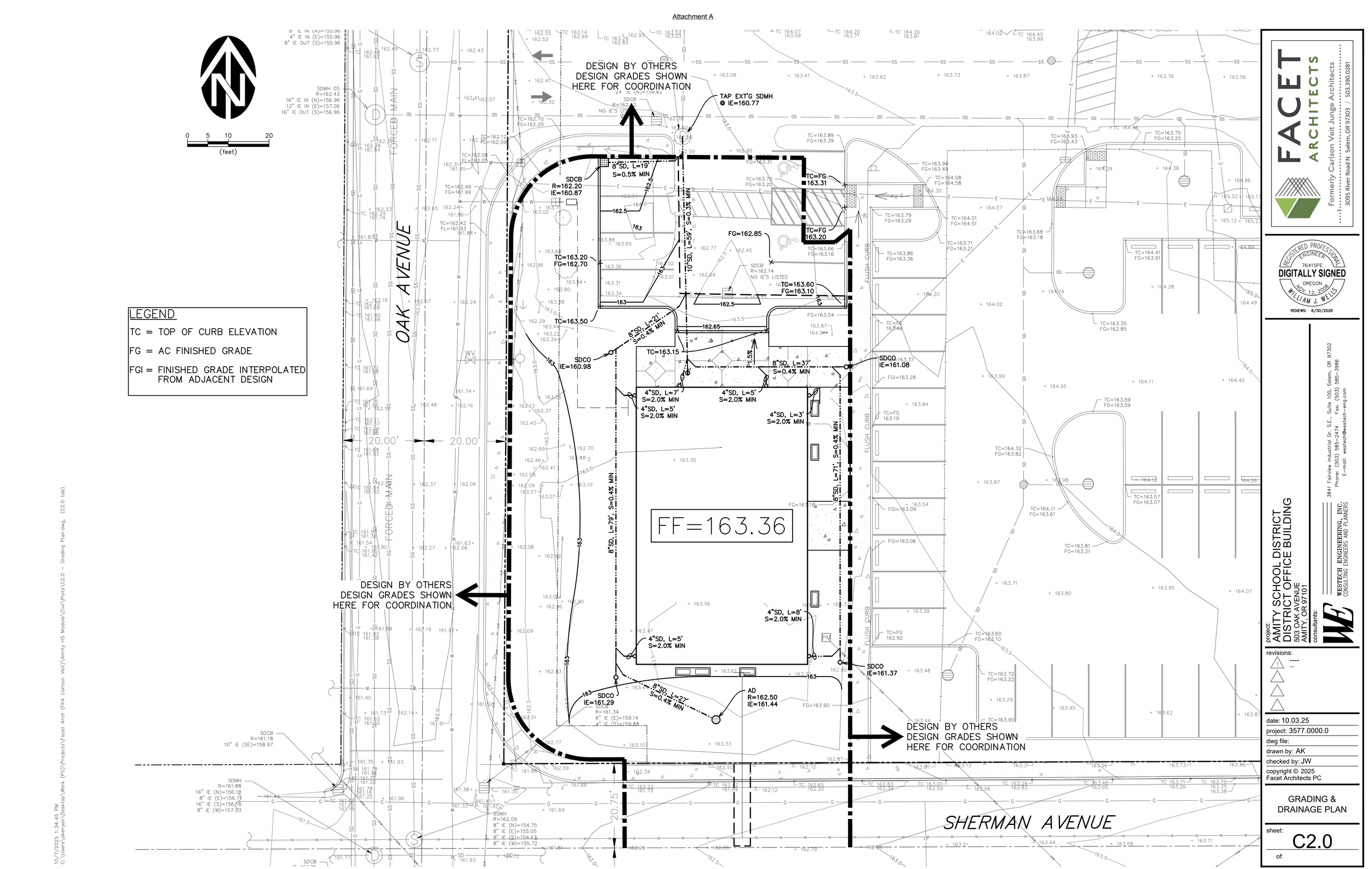
Attachment A



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date: 10.03.25
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dwg file:
drawn by: AK
checked by: JW

GRADING & DRAINAGE PLAN

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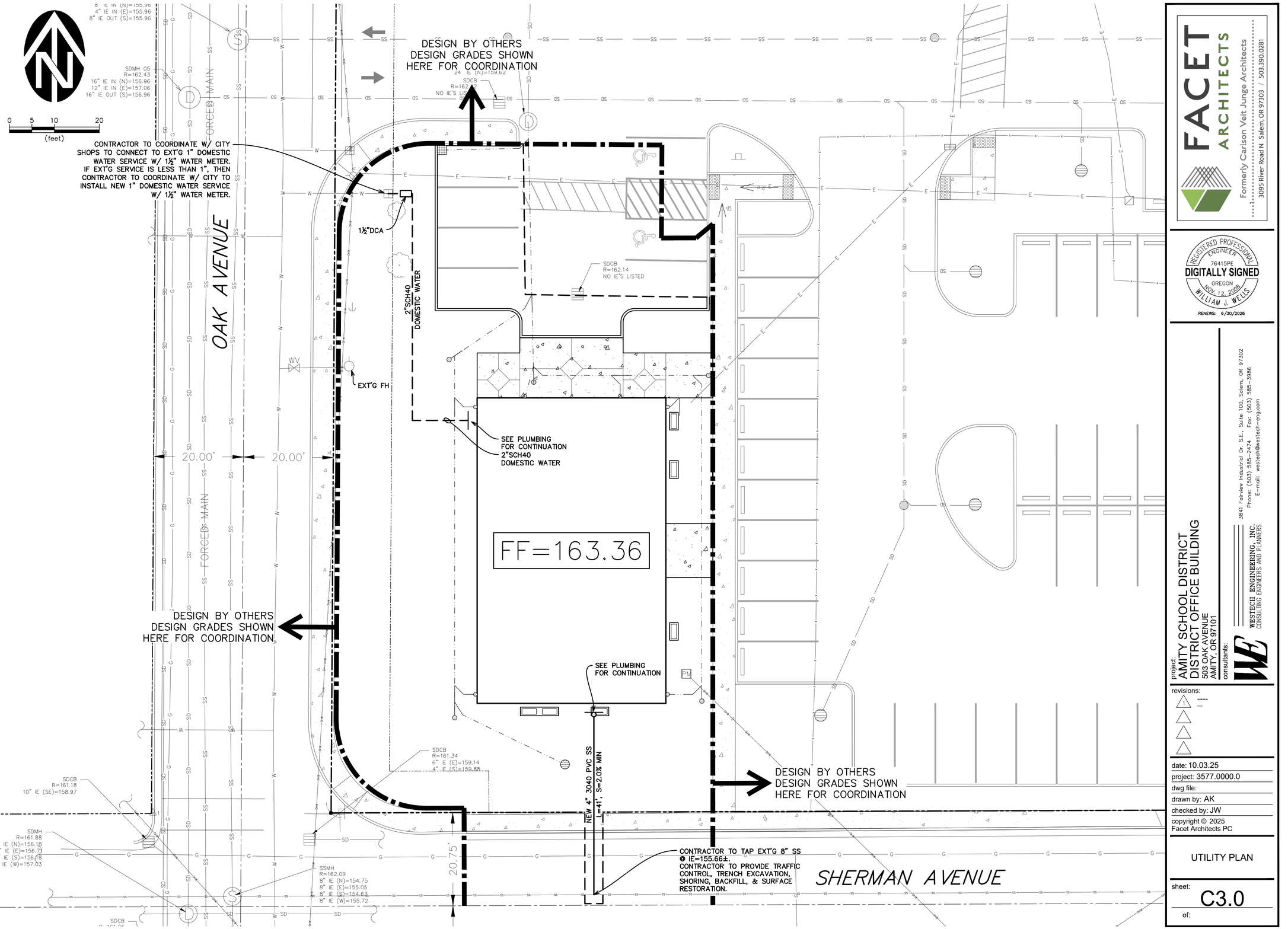
Attachment A



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revisions:
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project: 3577.0000.0
dwg file:
drawn by: AK
checked by: JW

UTILITY PLAN

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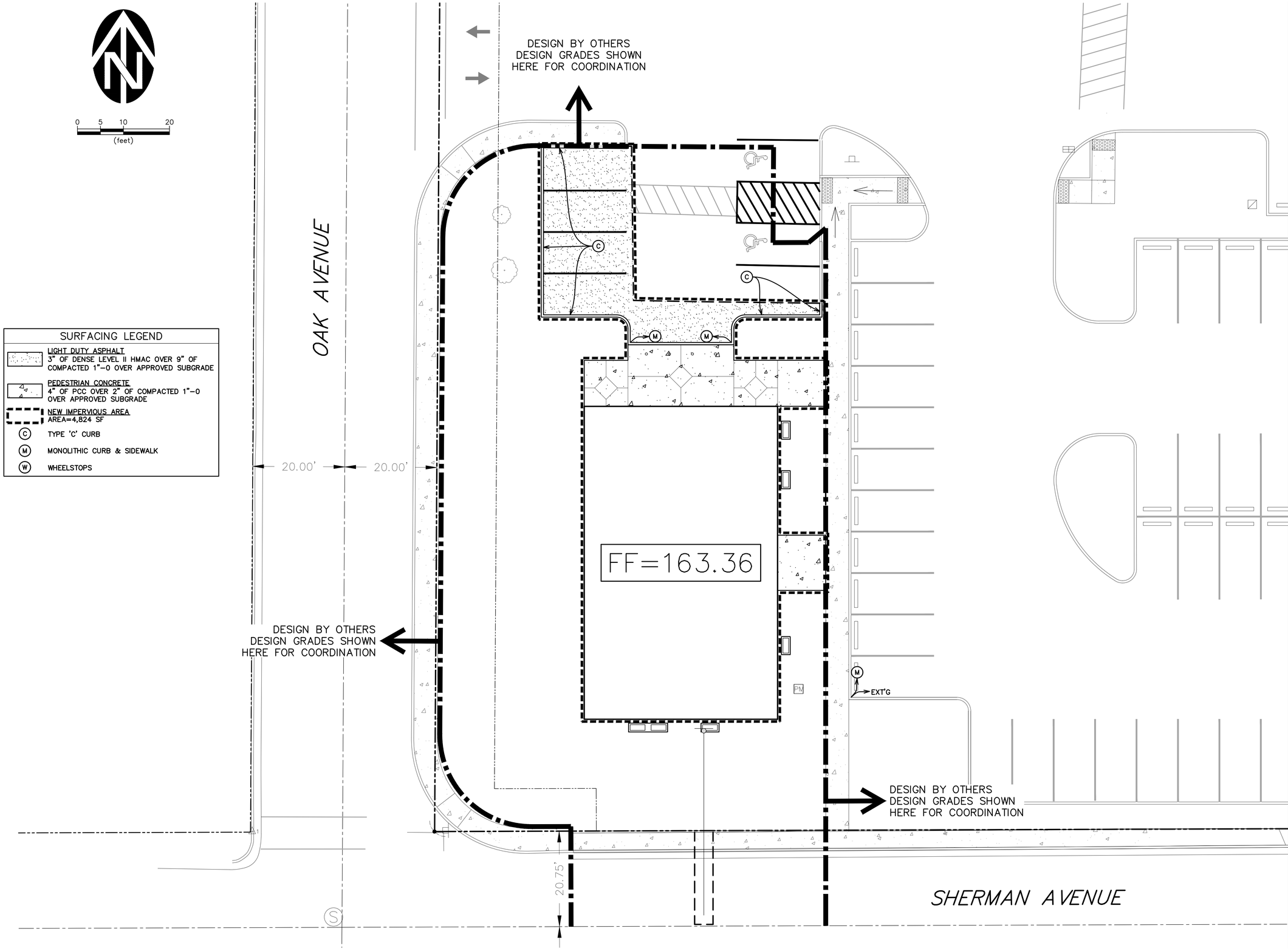
SURFACING LEGEND

- LIGHT DUTY ASPHALT — 3" OF DENSE LEVEL II HMAC OVER 9" OF COMPACTED 1"-0 OVER APPROVED SUBGRADE
- PEDESTRIAN CONCRETE — 4" OF PCC OVER 2" OF COMPACTED 1"-0 OVER APPROVED SUBGRADE
- NEW IMPERVIOUS AREA — AREA=4,824 SF
- (C) TYPE 'C' CURB
- (M) MONOLITHIC CURB & SIDEWALK
- (W) WHEELSTOPS



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revisions:
1 ----

date: 10.03.25
project: 3577.0000.0
dwg file:
drawn by: AK
checked by: JW

SURFACING PLAN

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GENERAL NOTES

1. Contractor shall procure, and conform to all construction permits required by the City of Amity and Yamhill County.

2. Owner to pay all project permit costs, including but not limited to utility tapping, TV, and chlorination costs. The Contractor shall coordinate with the Approving Agency to determine appropriate fees and provide the Owner with 48 hours notice prior to the required payment of fees or costs.

3. Oregon law requires the Contractor to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. Obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is 503-232-1987).

4. Contractor to notify City, County and all utility companies a minimum of 48 business hours (2 business days) prior to start of construction, and comply with all other notification requirements of the Approving Agency with jurisdiction over the work.

5. Contractor shall provide all bonds and insurance required by public and/or private agencies having jurisdiction. Where required by public and/or private agencies having jurisdiction, the Contractor shall submit a suitable maintenance bond prior to final payment.

6. All materials and workmanship for facilities in street right-of-way or easements shall conform to Approving Agencies' construction specifications wherein each has jurisdiction, including but not limited to the City, County, Oregon Health Division (OHD) and the Oregon Department of Environmental Quality (DEQ).

7. Unless otherwise approved by the Public Works Director, construction of all public facilities shall be done between 7:00 a.m. and 6:00 p.m., Monday through Saturday.

8. The Contractor shall perform all work necessary to complete the project in accordance with the approved construction drawings including such incidentals as may be necessary to meet the Approving Agencies' requirements and provide a completed project.

9. Any inspection by the City, County or other Approving Agency shall not, in any way, relieve the Contractor from any obligation to perform the work in strict compliance with the contract documents, applicable codes, and Approving Agency requirements.

10. Contractor shall maintain one complete set of approved drawings on the construction site at all times whereon he will record all approved deviations in construction from the approved drawings, as well as the station locations and depths of all existing utilities encountered. These field record drawings shall be kept up to date at all times and shall be available for inspection by the Approving Agency or Owner's Representative upon request. Failure to conform to this requirement may result in delay in payment and/or final acceptance of the project.

11. Upon completion of construction of all new facilities, Contractor shall submit a clean set of field record drawings containing all as-built information to the Engineer. All information shown on the Contractor's field record drawings shall be subject to verification. If significant errors or deviations are noted, an as-built survey prepared and stamped by a registered professional Land Surveyor shall be completed at the Contractor's expense.

12. The contractor shall retain and pay for the services of a registered Civil Engineer and/or Land Surveyor licensed in the State of Oregon to establish construction control and perform initial construction surveys to establish the lines and grades of improvements as indicated on the drawings. Staking for buildings, structures, curbs, gravity drainage pipes/structures and other critical improvements shall be completed using equipment accurate to 0.04 feet horizontally and 0.02 feet vertically, or better. Use of GPS equipment for final construction staking of these critical improvements is prohibited. The registered professional surveyor shall provide the design engineer with copies of all grade sheets for construction staking performed for the project.

13. See architectural drawings for site lighting, site dimensioning, and continuation of all utilities.

TRAFFIC CONTROL

14. Contractor shall erect and maintain barricades, warning signs, traffic cones (and all other traffic control devices required) per City, County requirements in accordance with the current MUTCD (including Oregon amendments). Access to driveways shall be maintained at all times. All traffic control measures shall be approved and in place prior to any construction activity. Prior to any work in the existing public right-of-way, Contractor shall submit final traffic control plan to the Approving Agency for review and issuance of a Lane Closure or Work in Right-of-Way Permit.

15. Prior to any work in the existing right-of-way, Contractor shall submit final traffic control plan to City of Amity for review and issuance of lane closure permit. Contractor to obtain a lane closure permit before construction starts for any work within the existing public right-of-way, including public street improvements or driveway connections to existing streets.

TESTING AND INSPECTION:

16. For public and private improvements, the Contractor shall be responsible to ensure that all required or necessary inspections are completed by authorized inspectors prior to proceeding with subsequent work which covers or that is dependent on the work to be inspected. Failure to obtain necessary inspection(s) and approval(s) shall result in the Contractor being fully responsible for all problems and/or corrective measures arising from uninspected work.

17. Unless otherwise specified, the attached "Required Testing and Frequency" table outlines the minimum testing schedule for private improvements on the project. This testing schedule is not complete, and does not relieve the Contractor of the responsibility of obtaining all necessary inspections or observations for all work performed, regardless of who is responsible for payment. Cost for retesting shall be borne by the Contractor.

EXISTING UTILITIES & FACILITIES:

18. The location and descriptions of existing utilities shown on the drawings are compiled from available records and/or field surveys. The Engineer or utility companies do not guarantee the accuracy or the completeness of such records. Contractor shall field verify locations and sizes of all existing utilities prior to construction.

19. Contractor shall field verify location and depth of all existing utilities where new facilities cross. All utility crossings marked or shown on the drawings shall be potholed using hand tools or other non-invasive methods prior to excavating or boring. Contractor shall be responsible for exposing potential utility conflicts far enough ahead of construction to make necessary grade or alignment modifications without delaying the work. If grade or alignment modification is necessary, Contractor shall notify the Design Engineer, and the Design Engineer or the Owner's Representative shall obtain approval from the Approving Agency prior to construction.

20. The Contractor shall be responsible for locating and marking all existing survey monuments of record (including but not limited to property and street monuments) prior to construction. If any survey monuments are removed, disturbed or destroyed during construction of the project, the Contractor shall retain and pay for the services of a Registered Professional Surveyor licensed in the State of Oregon to reference and replace all such monuments prior to final payment. The monuments shall be replaced within a maximum of 90 days, and the County Surveyor shall be notified in writing as required by per ORS 209.150.

21. All facilities shall be maintained in-place by the Contractor unless otherwise shown or directed. Contractor shall take all precautions necessary to support, maintain, or otherwise protect existing utilities and other facilities at all times during construction. Contractor to leave existing facilities in an equal or better-than-original condition and to the satisfaction of the Approving Agency and Owner's Representative.

22. Utilities or interfering portions of utilities that are abandoned in place shall be removed by the Contractor to the extent necessary to accomplish the work. The Contractor shall plug the remaining exposed ends of abandoned utilities after appropriate verification procedures have taken place.

23. Contractor shall remove all existing signs, mailboxes, fences, landscaping, etc., as required to avoid damage during construction and replace them to existing or better condition.

24. The Contractor shall be responsible for managing construction activities to ensure that public streets and right-of-ways are kept clean of mud, dust or debris. Dust abatement shall be maintained by adequate watering of the site by the Contractor.

GRADING, PAVING & DRAINAGE:

25. Contractor to review soils report prepared by GRI dated Feb 22, 2023, and conform to all recommendations listed in the report.

26. All materials and workmanship for compaction, fills, grading, rocking and paving within the public right-of-way shall conform to City of Amity Standard Construction Specifications.

27. Unless otherwise noted, all grading, rocking and paving to conform to Oregon Standard Specifications for Construction (OSSC/ODOT/APWA), 2021 edition.

28. Clear and grub within work limits all surface vegetation, trees, stumps, brush, roots, etc. Do not damage or remove trees except as approved by the Owner's Representative or as shown on the drawings. Protect all roots two inches in diameter or larger.

29. Strip work limits, removing all organic matter, which cannot be compacted into a stable mass. All trees, brush, and debris associated with clearing, stripping or grading shall be removed and disposed of off-site.

30. Immediately following stripping and grading operations, compact subgrade to 92% of the maximum dry density per AASHTO T-180 test method (Modified Proctor). Subgrade must be inspected and approved by the Owner's authorized representative before placing, engineered fills or fine grading for base rock.

31. Engineered fills shall be constructed and compacted in 6" lifts over approved subgrade. All fills shall be engineered and comply with the Oregon Structural Specialty Code, with each lift compacted to 92% of the maximum dry density per AASHTO T-180 test method (Modified Proctor).

32. Granular baserock shall conform to the requirements of OSSC (ODOT/APWA) 02630.10 (Dense Graded Base Aggregate), with no more than 10% passing the #40 sieve and no more than 5% passing the #200 sieve.

33. Compact granular baserock to 92% of the maximum dry density per AASHTO T-180 test method (Modified Proctor). Written baserock compaction test results from an independent testing laboratory must be received by the Owner's authorized representative before placing AC pavement, and a finished rock grade proof-roll (witnessed by the Owners authorized representative) must be performed.

34. A.C. pavement shall conform to OSSC (ODOT/APWA) 00745 (Hot Mixed Asphalt Concrete Pavement) for standard duty mix. Unless otherwise specified or shown on the drawings, base lifts shall be 3/4" dense graded mix, while wearing courses shall be 1/2" dense graded mix. Unless otherwise specified or shown on the drawings, A.C. pavement for parking lots and streets shall be Level 2 mix (50 blow Marshall) per OSSC (ODOT/APWA) 00744.13. A.C. Pavement shall be compacted to a minimum of 91% of maximum density as determined by the Rice standard method. Written AC pavement compaction test results from an independent testing laboratory must be received by the Owner's authorized representative before final payment.

35. Pavement surface shall be a smooth, well-sealed, tight mat without depressions or bird baths. Bony or open graded pavement surfaces shall be repaired to the satisfaction of the Owner's authorized representative, prior to final acceptance of the work.

36. HMAC mixtures shall be placed only when the surface is dry and weather conditions are such that proper handling, finishing and compaction can be accomplished. In no case shall bituminous mixtures be placed when the surface temperature is below the minimum established under 2021 OSSC (ODOT/APWA) 00744.40 (AC - Season and Temperature Limitations) or the project specifications, whichever is more stringent.

37. Contractor shall protect new pavement against traffic as required, until it has cooled sufficiently to avoid tracking.

38. For parking lots or private access drives, the final lift of AC pavement shall not be placed until after the building is fully enclosed and weatherproof, unless otherwise approved by the Owner's authorized representative.

39. Unless otherwise shown on the drawings or details, straight grades shall be run between all finish grade elevations and/or finish contour lines shown (exception: where grades are shown across sidewalks, slopes shall be adjusted to ensure that maximum allowable sidewalk cross slopes are not exceeded).

40. Finish pavement grades at transition to existing pavement shall match existing pavement grades or be feathered past joints with existing pavement as required to provide a smooth, free draining surface.

41. All existing or constructed manholes, cleanouts, monument boxes, gas valves, water valves and similar structures shall be adjusted to match finish grade of the pavement, sidewalk, landscaped area or median strip wherein they lie. Verify that all valve boxes and risers are clean and centered over the operating nut.

42. Unless otherwise shown on the drawings, no cut or fill slopes shall be constructed steeper than 3H:1V.

43. Unless otherwise shown on the landscape plans, all planter areas, and open space shall be backfilled with approved topsoil minimum 8" thick. Stripping materials shall not be used for planter backfill.

44. Contractor shall seed and mulch (uniformly by hand or hydroseed) all exposed slopes and disturbed areas which are not scheduled to be landscaped, including trench restoration areas. If the Contractor fails to apply seed and mulch in a timely manner during periods favorable for germination, or if the seeded areas fail to germinate, the Owner's Representative may (at his discretion) require the Contractor to install sod to cover such disturbed areas.

45. Grading shown on the drawings is critical to functioning of detention system and shall be strictly followed.

46. Contractor shall coordinate and ensure that detention pond volumes are inspected and approved by public agencies having jurisdiction before paving and landscaping.

CURBS & SIDEWALKS:

47. Unless otherwise shown or indicated on the drawings, 6-inches nominal curb exposure used for design of all parking lot and street grades.

48. Where new curbing connects to existing curbing or is installed along existing streets or pavement, the gutter grade shall match the existing street grades so as to allow drainage from the street to the gutter and through any transitions. The Contractor shall notify the Owner's Representative in writing of any grade discrepancies or problems prior to curb placement.

49. Road widening design is based on available survey taken at random intervals. Street pavement widening cross slope shall be a minimum of 2% and a maximum of 5% except at intersections, where the street cross slopes shall not exceed 2% maximum (intersection defined from end of curb radius both directions). Prior to placing curbs, Contractor shall field verify pavement widening cross slope and contact Engineer if the design pavement widening cross slope is not within the limits stated above.

50. Contractor shall construct all handicap access ramps in accordance with current ADA requirements.

51. Sidewalks shall be a minimum of 4-inches thick and standard residential driveways shall be a minimum of 6-inches thick. Commercial use driveways and alley approaches shall be minimum 8-inches thick. All curbs, sidewalks and driveways shall be constructed using 3300-psi concrete, and shall be cured with Type 1 or Type 1D clear curing compound. All sidewalks shall be ADA compliant.

52. Curb & sidewalk concrete shall be placed only during periods when it will not be damaged by rain (protect unhardened concrete from precipitation). Concrete shall not be placed on frozen baserock. Do not begin concrete placement until temperature in the shade is a minimum of 35°F and rising, and stop placement if air temperature falls below 35°F. Protect concrete from freezing for a minimum of 5 days after placement per OSSC (ODOT/APWA) 00440.40.d & 00756.40 or the project specifications, whichever is more stringent.

53. Contraction joints shall be installed directly over any pipes that cross under the sidewalk, to control cracking. In general, cracks in new curbs or sidewalks (at locations other than contraction joints) are not acceptable, and cracked panels shall be removed & replaced unless otherwise approved by the Approving Agency and the design engineer.

54. All sidewalks shall be ADA compliant. Direction of sidewalk cross slope shall conform with the slope direction shown on the grading plan. Sidewalk cross slopes shall not exceed 1:67 (1.5%) nor be less than 1%. Longitudinal slope shall not exceed 1:20 (5%).

55. Where trench excavation requires removal of PCC curbs and/or sidewalks, the curbs and/or sidewalks shall be sawcut and removed at a tooled joint unless otherwise authorized in writing by the Approving Agency. The sawcut lines shown on the drawings are schematic and not intended to show the exact alignment of such cuts.

56. Unless otherwise shown on the drawings, areas along curbs and sidewalks shall be backfilled with approved topsoil, as well as being seeded and mulched (or hydroseeded).

PIPED UTILITIES:

57. All tapping of existing sanitary sewer, storm drain mains, and manholes must be done by Contractor forces.

58. The Contractor shall have appropriate equipment on site to produce a firm, smooth, undisturbed subgrade at the trench bottom, true to grade. The bottom of the trench excavation shall be smooth, free of loose materials or tooth grooves for the entire width of the trench prior to placing the granular bedding material.

59. All pipes shall be bedded with minimum 6-inches of 3/4"-0 crushed rock bedding and backfilled with compacted 3/4"-0 crushed rock in the pipe zone (crushed rock shall extend a minimum of 12-inches over the top of the pipe in all cases). Unless CDF or other backfill is shown or noted on the drawings, crushed rock trench backfill shall be used under all improved areas, including pavement, sidewalks, foundation slabs, buildings, etc.

60. Granular trench bedding and backfill shall conform to the requirements of OSSC (ODOT/APWA) 02630.10 (Dense Graded Base Aggregate), 3/4"-0. Unless otherwise shown on the drawings, compact granular backfill to 92% of the maximum dry density per AASHTO T-180 test method (Modified Proctor).

61. Contractor shall arrange to abandon existing sewer and water services not scheduled to remain in service in accordance with approving agency requirements.

62. All piped utilities abandoned in place shall have all openings closed with concrete plugs with a minimum length equal to 2 times the diameter of the abandoned pipe.

63. The end of all utility service lines shall be marked with a 2-x-4 painted white and wired to pipe stub. The pipe depth shall be written on the post in 2" block letters.

64. All non-metallic water, sanitary and storm sewer piping shall have an electrically conductive insulated 12 gauge solid core copper tracer wire the full length of the installed pipe using blue wire for water and green wire for storm and sanitary piping. Tracer wire shall be extended up into all valve boxes, catch basins, manholes and lateral cleanout boxes. Tracer wire penetrations into manholes shall be within 18 inches of the rim elevation and adjacent to manhole steps. The tracer wire shall be tied to the top manhole step or otherwise supported to allow retrieval from the outside of the manhole. All tracer wire splices shall be made with waterproof splices or waterproof/corrosion resistant wire nuts.

65. No trenches in sidewalks, roads, or driveways shall be left in an open condition overnight. All such trenches shall be closed before the end of each workday and normal traffic and pedestrian flows restored.

66. Before mandrel testing, TV inspection or final acceptance of gravity pipelines, all trench compaction shall be completed and all sewers and storm drains flushed & cleaned to remove all mud, debris & foreign material from the pipelines, manholes and/or catch basins.

67. Where future extensions are shown upstream of new manholes (sewer or storm), catch basins or junction boxes, pipe stubs (with gasketed caps) shall be installed at design grades to a point 2' minimum outside of the structure.

WATER SYSTEM:

68. City forces to operate all valves, including fire hydrants, on existing public mains.

69. All water mains to be installed with a minimum 36 inch cover to finish grade unless otherwise noted or directed. Water service lines shall be installed with a minimum 30-inch cover. Deeper depths may be required as shown on the drawings or to avoid obstructions.

70. Unless otherwise shown or approved by the Engineer, all valves shall be flange connected to adjacent tees or crosses.

71. Thrust restraint shall be provided on all bends, tees and other direction changes per Approving Agency requirements and as specified or shown on the drawings.

72. Unless otherwise noted, water service pipe 3-inch and smaller on the private side of the meter shall be Schedule 40 PVC. Unless otherwise specified, private water service piping shall be hydrostatically pressure tested to a minimum of 150% of the maximum static pressure at the site. All materials and workmanship for all private water lines, including water lines located within any building envelope, shall be installed in conformance with Uniform Plumbing Code requirements. All water service pipe on the private side of the meter shall be installed by a licensed plumber in accordance with Uniform Plumbing Code requirements.

73. Domestic and fire backflow prevention devices and vaults shall conform to requirements of public and/or private agencies having jurisdiction. The Contractor shall be responsible for having backflow devices tested and certified prior to final acceptance of the work.

74. Contractor shall provide all necessary equipment and materials (including plugs, blowoffs, valves, service taps, etc.) required to flush, test and disinfect waterlines per the Approving Agency requirements.

75. The work shall be performed in a manner designated to maintain water service to buildings supplied from the existing waterlines. In no case shall service to any main line or building be interrupted for more than four (4) hours in any one-day. Contractor shall notify the Approving Agency and all affected residents and businesses a minimum of 24 business hours (1 business day) before any interruption of service.

76. Where new waterlines cross below or within 18-inches vertical separation above a sewer main or sewer service lateral, center one full length of waterline pipe at point of crossing the sewer line or sewer lateral. In addition (unless otherwise approved in writing by the Approving Agency, existing sewer mains and/or service laterals within this zone shall be replaced with a full length of Class 50 Ductile Iron or C-900 PVC pipe (DR 18) centered at the crossing in accordance with OAR 333-061 and Approving Agency requirements. Connect to existing sewer lines with approved rubber couplings. Example: For an 8-inch waterline with 36-inches cover, 4-inch service lateral inverts within 5.67=feet (68-inches) of finish grade must be DI or C-900 PVC at the crossing.

77. All waterlines, services and appurtenances shall be pressure tested for leakage. All testing shall conform to requirements as outlined in the specifications, Approving Agency standards and/or testing forms. The hydrostatic test shall be performed with all service line corporation stops open and meter stops closed, and with all hydrant line valves open. Prior to the start of each pressure test, the position of all mainline valves, hydrant line valves and service line corporation stops in the test segment shall be verified.

78. After the pressure test and prior to disinfecting, the water lines shall be thoroughly flushed through hydrants, blow offs or by other approved means.

79. Disinfection & Bacteriological Testing. All water mains and service lines shall be chlorine disinfected per Approving Agency requirements, AWWA C-651 or OAR 333-061 (25 mg/L minimum chlorine solution, 24 hours contact time), whichever is more stringent. Unless otherwise approved by the Approving Agency, a Representative from the Approving Agency shall witness the application of the chlorine solution and the chlorine testing at the end of the 24 hour contact period. After the 24 hour chlorine contact period, the free chlorine concentration shall be checked, and if it is found to be 10 mg/L or more, the chlorine solution shall be drained (otherwise the line shall be rechlorinated), the waterline flushed with potable water, and a minimum of two consecutive samples taken at least 24 hours apart shall be collected from the waterline for microbiological analysis (ie. one sample immediately after flushing, and another sample 24 hours later). Contractor to pay for laboratory analysis of water samples taken under the supervision of the Approving Agency. If the results of both analyses indicate that the water is free of coliform organisms, the waterline may be placed in service. Should the initial treatment prove ineffective, the chlorination shall be repeated until confirmed tests show acceptable results.

80. Disinfection of Connections. For connections which cannot be disinfected with the waterline mainlines as noted above, all fittings, valves and appurtenances, including tool surfaces which will come in contact with potable water, shall be thoroughly cleaned by washing with potable water and then swabbed or sprayed with a one percent (1%) hypochlorite solution (10,000 mg/L) in accordance with the requirements of AWWA C-651 and OAR 333-061.

STORM MANHOLES:

81. All precast manholes shall be provided with integral rubber boots. Where manholes without integral rubber boots are approved by the Owner's Representative and Approving Agency, a pipe joint shall be provided on all mainlines within 1.5 feet of the outside face of the manhole. Where required by Public Works, watertight lockdown lids required on all manholes outside of public right-of-way.

82. Openings for connections to existing manholes shall be made by core-drilling the existing manhole structure, and installing a rubber boot. Connections shall be watertight and shall provide a smooth flow into and through the manhole with no ponding. Small chipping hammers or similar light tools which will not damage or crack the manhole base may be used to shape channels, but may be used to enlarge existing openings only if authorized in writing by the Owner's Representative. Use of pneumatic jackhammers shall be prohibited.

83. Manhole channels depths (sewer & storm) shall be to the heights shown on the drawings, but in no case shall the channel depth be less than 2/3 of the pipe diameter. Channels, as well as shelves between the channels and the manhole walls, shall be sloped to drain per plan details.

84. Manholes constructed over existing sanitary sewers shall conform to the requirements of OSSC (ODOT/APWA) 490.41, Manholes over Existing Sewers. The existing pipe shall not be broken out until after the completion of the manhole test.

SANITARY SEWER SYSTEM:

85. Unless otherwise specified, sanitary sewer pipe shall be solid wall PVC in conformance with ASTM D3034, SDR 35 (≤15") or ATSM F-679, PS 46 (≥18"). Minimum stiffness shall be 46 psi per ASTM D-2412 and joint type shall be elastomeric gasket conforming to ASTM D-3212. All other appurtenances and installation to conform to the Approving Agency's specifications. All materials and workmanship for all private sanitary sewers, including sewers located within any building envelope, shall be installed in conformance with Uniform Plumbing Code requirements.

86. Unless otherwise specifically noted on the drawings, manufactured fittings (tee or wye per Approving Agency) shall be used for all lateral connections to new sewer mainlines.

87. Contractor shall provide all necessary materials, equipment and facilities to test sanitary sewer pipe and appurtenances for leakage in accordance with testing schedule herein or the Approving Agency's construction standards, whichever are more stringent. Sanitary sewer pipe and appurtenances shall be tested for leakage. Leakage tests shall include an air test of all sewer mains and laterals and vacuum testing of the manholes. Manhole testing shall be performed after completion of AC pavement and final surface restoration.

88. After manhole channeling and prior to mandrel testing and/or TV inspection, flush and clean all sewers, and remove all foreign material from the mainlines and manholes. Failure to clean all dirt, rock and debris from pipelines prior to TV inspection will result in the need to re-clean and re-TV the sewer lines.

89. Contractor shall conduct deflection test of flexible sanitary sewer pipes by pulling an approved mandrel through the completed pipeline following trench compaction. The diameter of the mandrel shall be 95% of the initial pipe diameter. Test shall be conducted not less than 30 days after the trench backfilling and compaction has been completed, unless otherwise approved by the Approving Agency.

90. Upon completion of all sanitary sewer construction, testing and repair, the Contractor shall conduct a color TV acceptance inspection of all mainlines in accordance with OSSC (ODOT/APWA) 445.74 to determine compliance with grade requirements of OSSC (ODOT/APWA) 445.40.b. The TV inspection shall be conducted by an approved technical service which is equipped to make audio-visual recordings of the TV inspections on DVD or flash drive. Unless otherwise required by the Approving Agency, a standard 1-inch diameter ball shall be suspended in front of the camera during the inspection to determine the depth of any standing water. Sufficient water to reveal low areas or reverse grades shall be discharged into the pipe immediately prior to initiation of the TV inspection. The DVD and written report shall be delivered to the Approving Agency.

STORM DRAIN SYSTEM:

91. Storm sewer pipe materials shall conform to the construction drawings and Approving Agency's requirements. Unless otherwise noted or shown on the drawings, storm sewer pipe materials with watertight joints shall conform to the attached "Storm Pipe Table". Contractor shall use uniform pipe material on each pipe run between structures unless otherwise directed or approved. Jointed HDPE pipe shall not be used for slopes exceeding ten percent (10%). All materials and workmanship for all private storm drains, including storm drains located within any building envelope, shall be installed in conformance with Uniform Plumbing Code requirements.

92. Contractor shall designate the pipe material actually installed on the field record drawings and provide this information for inclusion on the as-built drawings.

93. Catch basins and junction boxes shall be set square with buildings or with the edge of the parking lot or street wherein they lie. Storm drain inlet structures and paving shall be adjusted so water flows into the structure without ponding water.

94. Unless otherwise approved by the Engineer, all storm drain connections shall be by manufactured tees or saddles.

95. Unless otherwise shown on the drawings, all storm pipe inlets & outfalls shall be beveled flush to match the slope wherein they lie.

96. Sweep (deflect) storm sewer pipe into catch basins and manholes as required. Maximum joint deflection shall not exceed 5 degrees or manufacturers recommendations, whichever is less.

97. Unless otherwise shown or directed, install storm sewer pipe in accordance with manufacturer installation guidelines.

98. After manhole channeling and prior to mandrel testing or final acceptance, flush and clean all sewers, and remove all foreign material from the mainlines, manholes and catch basins.

99. Mandrel Testing. Contractor shall conduct deflection test of flexible storm sewer pipes by pulling an approved mandrel through the completed pipeline following trench compaction. The diameter of the mandrel shall be 95% of the initial pipe diameter. Test shall be conducted not more than 30 days after the trench backfilling and compaction has been completed.

100. TV Inspection. Upon completion of all storm sewer construction, testing and repair, the Contractor shall conduct a color TV acceptance inspection of all mainlines in accordance with OSSC (ODOT/APWA) 445.74 to determine compliance with grade requirements of OSSC (ODOT/APWA) 445.40.b. The TV inspection shall be conducted by an approved technical service which is equipped to make audio-visual recordings of the TV inspections on DVD (VHS video tape acceptable only upon prior written approval by Public Works). Unless otherwise required by the agency with jurisdiction, a standard 1-inch diameter ball shall be suspended in front of the camera during the inspection to determine the depth of any standing water. Sufficient water to reveal low areas or reverse grades shall be discharged into the pipe immediately prior to initiation of the TV inspection. The DVD and written report shall be delivered to the Approving Agency.

101. Prior to acceptance, the Owner's Representative may lamp storm lines upstream & downstream of structures to verify that the pipes are clean and there is no grout or concrete in the mainlines, and that there are no observable bellies in the line. When necessary, sufficient water to reveal low areas shall be discharged into the pipe by the Contractor prior to any such inspection by the Owner's Representative or the Approving Agency.

FRANCHISE & PRIVATE UTILITIES:

102. Unless otherwise shown on the drawings or approved by jurisdiction having authority, all new franchise and private utilities (power, cable TV, telephone, gas, data, communication, control, alarms, etc.) shall be installed underground. Installation of such utilities or associated conduits in a common trench with public water, sanitary sewer, or storm sewer is prohibited.

103. Contractor shall coordinate with gas, power, telephone, and cable TV Company for location of conduits in common trenches, as well as location or relocation of vaults, pedestals, etc. The Contractor shall be responsible for providing franchise utility companies adequate written notice of availability of the open trench (typically 10 days minimum), and reasonable access to the open trench. Unless otherwise approved in writing by the Approving Agency, all above-grade facilities shall be located in PUEs (where PUEs exist or will be granted by the development), and otherwise shall be placed in a location outside the proposed sidewalk location.

104. Unless otherwise approved by the Approving Agency, installation of private utilities (including either franchise utilities or private water, sewer or storm services) in a common trench with or within 3 feet horizontally of and paralleling public water, sanitary sewer or storm drains is prohibited.

105. Power, telephone and TV trenching and conduits shall be installed per utility company requirements with pull wire. Contractor shall verify with utility company for size, location and type of conduit before construction, and shall ensure that trenches are adequately prepared for installation per utility company requirements. All changes in direction of utility conduit runs shall have long radius steel bends.

106. Contractor shall notify and coordinate with franchise utilities for removal or relocation of power poles, vaults, pedestals, manholes, etc. to avoid conflict with Public utility structures, fire hydrants, meters, sewer or storm laterals, etc.

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revisions:
1 ----
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date: 10.03.25
project: 3577.0000.0
dwg file:
drawn by: AK
checked by: JW

CONSTRUCTION NOTES

sheet: C5.0
of:

STORM PIPE TABLE	
Cover Depth	6" – 18" Diameter
Less than 2' Cover	Class 50 ductile iron pipe with bell and spigot joints and rubber gasket.
2' to 2–1/2' Cover	Pipe specified for lesser cover depths –or– Class 3, ASTM C–14 non–reinforced concrete pipe with bell and spigot joints & rubber gaskets, ASTM 150 Type II cement. –or– PVC pipe conforming to AWWA C900 DR 18 (6"–12") or AWWA C–905 (14"–18") with bell and spigot joints and rubber gasket
2–1/2' to 15' Cover	Pipe specified for lesser cover depths –or– PVC pipe conforming to ASTM D–3034 PVC SDR 35 (6"–15") or ASTM F–679 PVC solid wall SDR 35 (18") with bell and spigot joints and rubber gasket. –or– HDPE (high density polyethlene) pipe conforming to AASHTO M–252, (8"–10") or AASHTO M–294 (12"–18"). For slopes less than 6% the pipe shall be ADS N–12 IB ST, Hancor Sure–Lok F477, or approved equal. For slopes greater than 6% the pipe shall be ADS N–12 IB WT, Hancor Blue Seal, or approved equal with watertight pressure testable fittings, –except– jointed HDPE (high density polyethylene) pipe referenced above not permitted for depth to invert greater than 12 feet.

REQUIRED TESTING AND FREQUENCY TABLE *Contractor to notify Owner's Representative prior to all testing, to allow Owner's Representative to be present if desired.*		Party Responsible for payment		
			Contractor	Others (see note 1)
Streets, Fire Lanes, Common Driveways, Parking Lots, Pads, Fills, etc.				
Subgrade	1 Test/4000 S.F./Lift (4 min), locations acceptable to approving agency (typically alternate sides of road or access aisles)	✓	See note 2 & note 3	
Engineered Fills	1 Test/4000 S.F./Lift (4 min), locations acceptable to approving agency	✓	See note 2 & note 5	
Baserock	1 Test/4000 S.F./Lift (4 min), locations acceptable to approving agency (typically alternate sides of road or access aisles)	✓	See note 2 & note 3	
Asphalt	1 Test/6000 S.F./Lift (4 min), locations acceptable to AA (typ. alternate as above)	✓	See note 2	
Piped Utilities, All				
Trench Backfill	1 Test/200 Foot Trench/Lift (4 min)	✓	See note 2	
Trench AC Restoration	1 Test/300 Foot Trench (4 min)	✓	See note 2	
Water				
Pressure Test	(to be witnessed by Owner's Representative or approving agency)	✓	See note 4	
Bacterial Water Test	Per Oregon Health Division	✓	See note 2	
Chlorine Residual Test	Per City Requirements	✓		
Sanitary Sewer				
Air Test	Per City or APWA Requirements, whichever is more stringent	✓	See note 4	
Mandrel	95% of actual inside diameter	✓	See note 4	
TV Inspection	All. Lines must be cleaned prior to TV work	✓		
Storm				
Mandrel	95% of actual inside diameter	✓	See note 4	
TV Inspection	All. Lines must be cleaned prior to TV work	✓		
Concrete, Block, etc.				
Slump, Air & Cylinders for structural & reinforced concrete, equipment slabs, curbs, sidewalks & PCC pavements. Unless otherwise specified, one set of cylinders per 100 cubic yards (or portion thereof) of each class of concrete placed per day. Slump & air tests required on same load as cylinders.		✓	See note 2	

Note 1: "Others" refers to Owner's authorized Representative or Approving Agency as applicable. Contractor responsible for scheduling testing. All testing must be completed prior to performing subsequent work.

Note 2: Testing must be performed by an approved independent testing laboratory.

Note 3: In addition to in–place density testing, the subgrade and base rock shall be proof–rolled with a loaded 10 yard dump truck provided by the Contractor. Baserock proofroll shall take place immediately prior to (within 24 hours of) paving, and shall be witnessed by the Owner's authorized Representative or approving agency. Location and pattern of testing and proofroll to be as approved or directed by said Owner's authorized Representative or approving agency.

Note 4: To be witnessed by the Owner's Representative or approving agency. The Contractor shall perform pretests prior to scheduling witnessed waterline or sanitary sewer pressure tests, or pipeline mandrel test.

Note 5: The approved independent laboratory retained by the Contractor shall provide a certification (stamped by an engineer licensed in the State of Oregon) that the subgrade was prepared and all engineered fills were placed in accordance with the provisions of the construction drawings and the contract documents.

Contractor to notify Owner's Representative prior to all testing, to allow Owner's Representative to be present if desired.

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RENEWS: 6/30/2026

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consultants:

revisions:
1 ----
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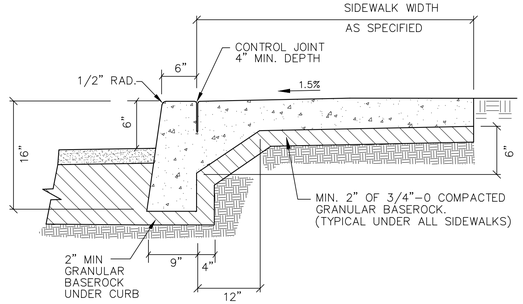
date: 10.03.25
project: 3577.0000.0
dwg file:
drawn by: AK
checked by: JW

CONSTRUCTION NOTES

sheet: C5.1
of:

Attachment A



TYPICAL SECTION

NTS

NOTES:

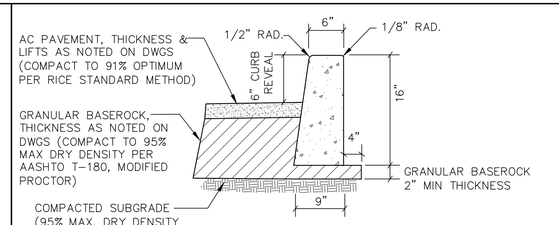
1. CONCRETE THICKNESS. 4" MIN. CONCRETE THICKNESS FOR STANDARD SIDEWALKS. 6" MIN CONCRETE THICKNESS THROUGH RESIDENTIAL DRIVEWAYS (INCLUDING WINGS). 8" MIN CONCRETE THICKNESS THROUGH COMMERCIAL/INDUSTRIAL DRIVEWAYS & ALLEY APPROACHES.
2. CONCRETE SHALL BE 3300 PSI @ 28 DAYS, MAX 5" SLUMP, 4.5% AIR (±1.5%).
3. INSTALL TOOLED CONTRACTION JOINTS AT 5' INTERVALS. SIDEWALKS 10' & WIDER SHALL HAVE A LONGITUDINAL CONTRACTION JOINT AT 5' MAX ON CENTER.
4. INSTALL AT LEAST 2 WEEP HOLES ON ALL LOTS. IN ADDITION TO WEEPHOLES AT DRIVEWAY WINGS, INSTALL ONE WEEPHOLE AT LOW POINT OF LOT, 5' MAX FROM P/L.
5. A CONTRACTION JOINT SHALL BE PLACED ALONG AND OVER WEEPHOLE & DRAIN PIPE.
6. SIDEWALKS SHALL BE LOCATED ENTIRELY WITHIN PRIVATE RIGHT-OF-WAYS OR SIDEWALK EASEMENTS, INCLUDING SIDEWALKS AT DRIVEWAY APRONS.

LAST REVISION DATE:	JO #
JAN 2024	STANDARD

MONOLITHIC CURB AND PRIVATE SIDEWALK

(NTS)

WESTECH ENG.	DETAIL NO. 2112



PAVEMENT/TYPE "C" CURB DETAIL

NTS

NOTES:

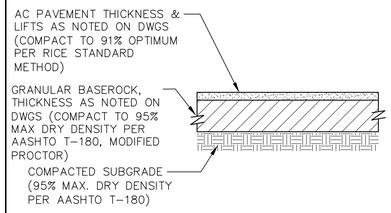
1. SEE GRADING PLAN OR SURFACING PLAN FOR LOCATION OF LIGHT AND HEAVY DUTY PAVEMENT, AS WELL AS PAVEMENT & BASEROCK THICKNESSES.
2. DESIGN SUBGRADES SHALL BE COMPACTED AND PROOF-ROLLED PRIOR TO PLACEMENT OF BASEROCK. IF SUBGRADE PASSES PROOF-ROLL BUT FAILS DENSITY TESTING, MIN. 4.5 OZ NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED ON SUBGRADE PRIOR TO PLACEMENT OF BASEROCK. FAILURE OF PROOF-ROLL WILL REQUIRE OVEREXCAVATION.
3. IF SUBGRADE FAILS THE PROOF-ROLL, SUBGRADE SHALL BE OVEREXCAVATED TO UNDISTURBED SOIL AND BACKFILLED WITH BASEROCK OVER MIN. 8.0-OZ. NON-WOVEN FABRIC AS REQUIRED TO ALLOW COMPACTION OF UPPER (DESIGN) BASEROCK SECTION AND TO MAINTAIN STRUCTURAL INTEGRITY OF NATIVE SUBGRADE SOILS. TYPICAL MIN. OVEREXCAVATION REQUIRED IS 12-INCHES. NO RUBBER TIRED EQUIPMENT ALLOWED ON SUBGRADE FOLLOWING OVEREXCAVATION.
4. SUBGRADE TO BE PROOFROLLED IMMEDIATELY PRIOR TO PLACING BASEROCK. BASEROCK TO BE PROOFROLLED IMMEDIATELY PRIOR TO PAVING.
5. CONTRACTION JOINTS SHALL BE PLACED AT 15' MIN. INTERVALS AND SHALL EXTEND AT LEAST 50% THROUGH THE CURB SECTION.
6. CURBS TO CURE A MINIMUM OF 7 DAYS PRIOR TO PLACING FINAL BASEROCK AND PAVING. USE TYPE 1 OR 1-D CLEAR CURING COMPOUND.
7. ALL CONCRETE SHALL BE 3300 PSI @ 28 DAYS, MAX 5" SLUMP, 4.5% AIR (±1.5%).

LAST REVISION DATE:	JO #
FEB 2024	X

PAVEMENT AND TYPE 'C' CURB DETAIL

(NTS)

WESTECH ENG.	DETAIL NO. 2390



SEE PLAN FOR SECTION

TYPICAL PAVEMENT SECTION

NTS

NOTES:

1. SEE GRADING PLAN OR SURFACING PLAN FOR LOCATION OF LIGHT AND HEAVY DUTY PAVEMENT, AS WELL AS PAVEMENT & BASEROCK THICKNESSES.
2. DESIGN SUBGRADES SHALL BE COMPACTED AND PROOF-ROLLED PRIOR TO PLACEMENT OF BASEROCK. IF SUBGRADE PASSES PROOF-ROLL BUT FAILS DENSITY TESTING, MIN. 4.5 OZ NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED ON SUBGRADE PRIOR TO PLACEMENT OF BASEROCK. FAILURE OF PROOF-ROLL WILL REQUIRE OVEREXCAVATION.
3. IF SUBGRADE FAILS THE PROOF-ROLL, SUBGRADE SHALL BE OVEREXCAVATED TO UNDISTURBED SOIL AND BACKFILLED WITH BASEROCK OVER MIN. 8.0-OZ. NON-WOVEN FABRIC AS REQUIRED TO ALLOW COMPACTION OF UPPER (DESIGN) BASEROCK SECTION AND TO MAINTAIN STRUCTURAL INTEGRITY OF NATIVE SUBGRADE SOILS. TYPICAL MIN. OVEREXCAVATION REQUIRED IS 12-INCHES. NO RUBBER TIRED EQUIPMENT ALLOWED ON SUBGRADE FOLLOWING OVEREXCAVATION.
4. SUBGRADE TO BE PROOFROLLED IMMEDIATELY PRIOR TO PLACING BASEROCK. BASEROCK TO BE PROOFROLLED IMMEDIATELY PRIOR TO PAVING.

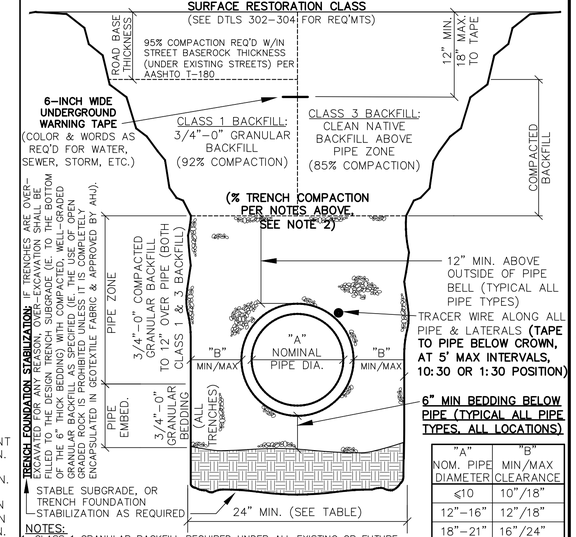
LAST REVISION DATE:	JO #
FEB 2024	X

PAVEMENT SECTION

(NTS)

WESTECH ENG.	DETAIL NO. 2391

TRENCH COMPACTION: CLASS 1 GRANULAR BACKFILL - 92% OPTIMUM PER AASHTO T-180 (MODIFIED PROCTOR)
CLASS 3 NATIVE BACKFILL - 85% OPTIMUM PER AASHTO T-180



"A" NOM. PIPE DIAMETER	"B" MIN/MAX CLEARANCE
≤10	10"/18"
12"-16"	12"/18"
18"-21"	16"/24"
24"-30"	18"/30"
>30"	24"/36"

(SEE NOTE 5)

NOTES:

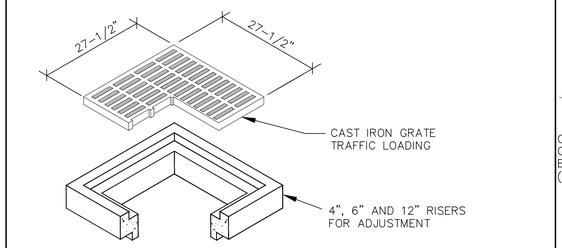
1. CLASS 1 GRANULAR BACKFILL REQUIRED UNDER ALL EXISTING OR FUTURE IMPROVED AREAS, INCLUDING STREETS, SHOULDERS, PARKING, SIDEWALKS, ETC.
2. SUBMIT WRITTEN BACKFILL COMPACTION TEST RESULTS PRIOR TO INSTALLING AC PAVEMENT OR CONCRETE SURFACE RESTORATION.
3. WHERE NEW PIPING IS IN SAME ALIGNMENT AS EXISTING PIPING, GRANULAR PIPE EMBEDMENT SHALL EXTEND TO A MIN. OF 6" BELOW THE NEW PIPING OR 6" BELOW EXISTING PIPING, WHICHEVER IS DEEPER.
4. SHORING NOTE, PIPE ZONE: FOR FLEXIBLE PIPE, BOTTOM OF TRENCH SHORING SHALL BE ABOVE PIPE SPRINGLINE PRIOR TO COMPACTING BACKFILL BELOW THE PIPE SPRINGLINE AND UNDER THE PIPE HAUNCHES (TO AVOID LOSS OF PIPE SIDE SUPPORT).
5. MINIMUM CLEARANCES SHOWN ("B") ASSUMES STANDARD 6" WALL TRENCH BOXES SET ON TRENCH BOTTOM, AND REPRESENTS WIDTH REQUIRED TO CONSOLIDATE GRANULAR MATERIAL UNDER PIPE HAUNCHES (TO AVOID LOSS OF SIDE SUPPORT WHEN TRENCH BOX IS MOVED OR PULLED FORWARD). TRENCH WIDTH REDUCTION REQUIRES PRIOR APPROVAL BASED ON ACTUAL TRENCH SHORING PROPOSED.

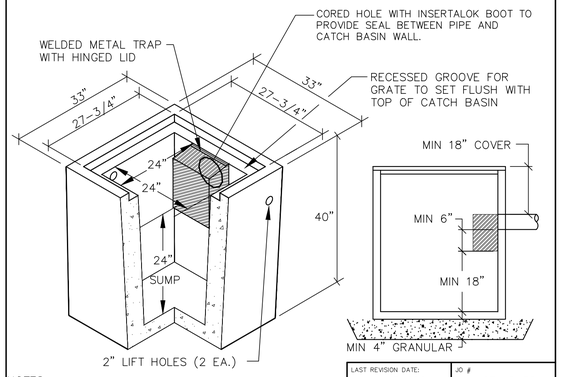
LAST REVISION DATE:	STANDARD
MAR 2024	

TRENCH BACKFILL, BEDDING, AND PIPE ZONE

(NTS)

WESTECH ENG.	DETAIL NO. 3010





NOTES:

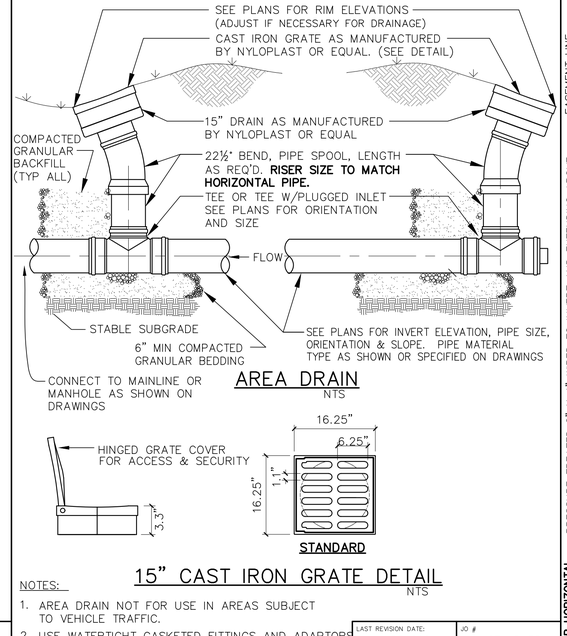
1. SEE CONSTRUCTION DRAWINGS FOR PIPE SIZE, LOCATION AND INVERT ELEVATION.
2. CONCRETE SHALL BE 4000 PSI @ 28 DAYS.
3. SET CB SQUARE WITH BUILDINGS OR WITH EDGE OF PARKING LOT, ALLEY OR DRIVEWAY WHEREIN IT LIES.
4. ADJUST PAVING SO WATER FLOWS TO CB WITH NO PONDING

LAST REVISION DATE:	JO #
MAR 2024	STANDARD

PARKING LOT CATCH BASIN or PUBLIC ALLEY CATCH BASIN (PRECAST CONCRETE)

(NTS)

WESTECH ENG.	DETAIL NO. 3150



AREA DRAIN

NTS

15" CAST IRON GRATE DETAIL

NTS

NOTES:

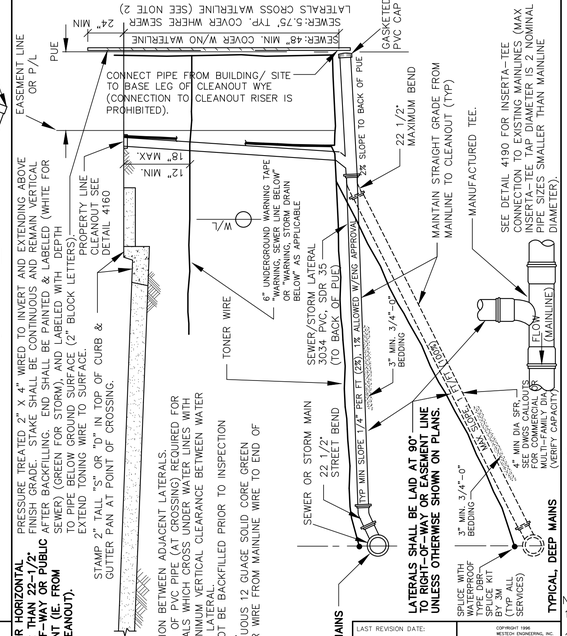
1. AREA DRAIN NOT FOR USE IN AREAS SUBJECT TO VEHICLE TRAFFIC.
2. USE WATERTIGHT GASKETED FITTINGS AND ADAPTORS FOR ALL PIPE CONNECTIONS.
3. ALL GRATES IN PEDESTRIAN AREAS SHALL CONFORM WITH ADA REQUIREMENTS, INCLUDING GRATE OPENING SIZE.

LAST REVISION DATE:	JO #
APR 2024	STANDARD

SLANTED GRATE PRIVATE AREA DRAIN, NON-TRAFFIC AREAS

(NTS)

WESTECH ENG.	DETAIL NO. 3551



NOTE: NO VERTICAL OR HORIZONTAL BENDS GREATER THAN 22-1/2° WITHIN RIGHT-OF-WAY OR PUBLIC UTILITY EASEMENT (E., FROM MAINLINE TO CLEANOUT).

PRESSURE TREATED 2" X 4" WIRED TO INVERT AND EXTENDING ABOVE FINISH GRADE. STAKE SHALL BE CONTINUOUS AND REMAIN VERTICAL AFTER BACKFILLING. END SHALL BE PAINTED & LABELED (WHITE FOR SEWER) (GREEN FOR STORM), AND LABELED WITH DEPTH TO PIPE BELOW GROUND SURFACE (2" BLOCK LETTERS). EXTEND TONING WIRE TO SURFACE.

NOTES:

1. MIN. 18" SEPARATION BETWEEN ADJACENT LATERALS.
2. ONE FULL LENGTH OF PVC PIPE (AT CROSSING) REQUIRED FOR ALL SEWER LATERALS WHICH CROSS UNDER WATER LINES WITH LESS THAN 18" MINIMUM VERTICAL CLEARANCE BETWEEN WATER LINE AND SERVICE LATERAL.
3. STORM LATERALS NOT BE BACKFILLED PRIOR TO INSPECTION BY PUBLIC WORKS.
4. INSTALL A CONTINUOUS 12 GUAGE SOLID CORE GREEN INSULATED TRACER WIRE FROM MAINLINE WIRE TO END OF LATERAL.

TYPICAL, SHALLOW MAINS

LATERALS SHALL BE LAID AT 90° TO RIGHT-OF-WAY OR EASEMENT LINE UNLESS OTHERWISE SHOWN ON PLANS.

TYPICAL, DEEP MAINS

LAST REVISION DATE:	COPYRIGHT 1996 WESTECH ENGINEERING, INC.
AUG 2024	

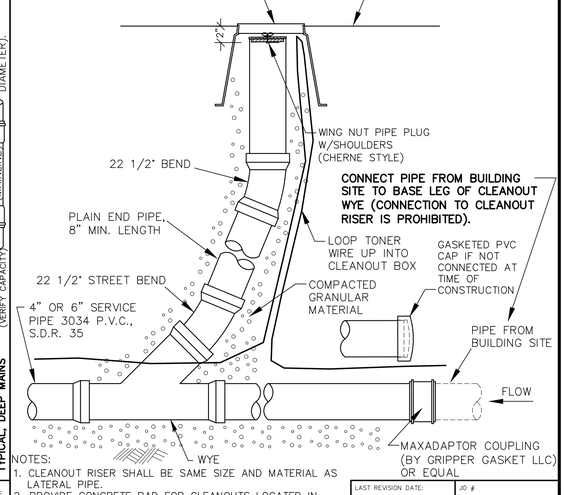
SEWER AND STORM SERVICE LATERALS

(NTS)

WESTECH ENG.	DETAIL NO. 4150

CLEANOUT COVERS: ALL SEWER CLEANOUT LIDS TO READ "SEWER".
ALL STORM CLEANOUT LIDS TO READ "STORM" OR "C/O".

1. NON-TRAFFIC AREAS:
   CARSON MODEL 910 T-COVER OR EQUAL (GREEN FOR SEWER, GREY FOR STORM).
2. TRAFFIC AREAS, INCLUDING DRIVEWAYS:
   8" X 4" CAST IRON FRAME & COVER, OLYMPIC M1007 OR EQUAL.
   8" X 6" CAST IRON FRAME & COVER, OLYMPIC M1018 OR EQUAL.
   (FOR CI CLEANOUTS IN UNPAVED AREAS, SET IN 6" THICK CONCRETE PAD)



NOTES:

1. CLEANOUT RISER SHALL BE SAME SIZE AND MATERIAL AS LATERAL PIPE.
2. PROVIDE CONCRETE PAD FOR CLEANOUTS LOCATED IN UNPAVED DRIVEWAYS OR TRAFFIC AREAS (6" THICK PAD TO BE 6" LARGER THAN CLEANOUT BOX FRAME ON ALL SIDES).
3. CLEANOUT PIPE SHALL BE LEFT A MINIMUM OF 18" ABOVE EXISTING GRADE UNTIL ALL CURBING IS INSTALLED AND ALL PRIVATE UTILITY TRENCHES ARE BACKFILLED. CLEANOUTS SHALL THEN BE SET NO MORE THAN 6" BELOW FINISH GRADE, AND CLEANOUT BOXES SET FLUSH WITH FINISH GRADE.

LAST REVISION DATE:	JO #
MAY 2024	STANDARD

STANDARD SERVICE LATERAL CLEANOUT (ON PRIVATE PROPERTY)

(NTS)

WESTECH ENG.	DETAIL NO. 4161

FACET ARCHITECTS
Formerly Carlson Veit Junge Architects
3095 River Road N Salem, OR 97303 / 503.390.0281

REGISTERED PROFESSIONAL ENGINEER
76415PE
DIGITALLY SIGNED
OREGON
NOV. 12, 2008
WILLIAM J. WELLS
RENEWS: 6/30/2026

3841 Fairview Industrial Dr. S.E., Suite 100, Salem, OR 97302
Phone: (503) 585-2474 Fax: (503) 585-3986
E-mail: westech@westech-eng.com
WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS AND PLANNERS

project:
AMITY SCHOOL DISTRICT
DISTRICT OFFICE BUILDING
503 OAK AVENUE
AMITY, OR 97101

consultants:

revisions:
1 ----
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date: 10.03.25
project: 3577.0000.0
dwg file:
drawn by: AK
checked by: JW

CONSTRUCTION DETAILS

sheet: C6.0
of:

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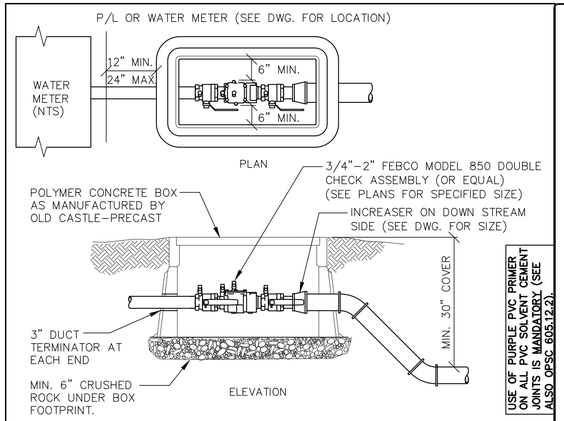


NOTES:

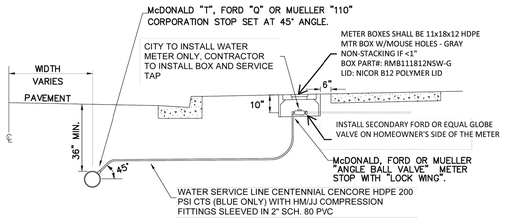
1. DCA– DOUBLE CHECK ASSEMBLY
2. DCA SHALL CONFORM TO REQUIREMENTS OF PUBLIC/PRIVATE AGENCIES HAVING JURISDICTION.
3. DCA & VAULT INSTALLATION SHALL MEET STATE OF OREGON, DEPARTMENT OF HUMAN RESOURCES, AND HEALTH DIVISION REQUIREMENTS.
4. CONTRACTOR SHALL HAVE DCA TESTED AND CERTIFIED PRIOR TO ACCEPTANCE BY OWNER.
5. VERIFY ADEQUATE CLEARANCES FOR TESTING AND REPAIR.
6. BRASS PLUGS SHALL BE INSTALLED IN TEST COCKS.
7. LOCK DOWN COVER WITH HEX HEAD BOLTS. COVER SHALL READ "WATER"
8. DCA SHALL NOT BE INSTALLED IN AREAS SUBJECT TO VEHICLE TRAFFIC AND PEDESTRIAN SIDEWALK AREAS.

DCA DIA.	BOX MODEL NO.	BOX NOMINAL DIMENSIONS AT TOP
3/4"	S1324B26AA	13" X 24" (26"D)
1"	S1324B26AA	13" X 24" (26"D)
1 1/2"	S1730B26AA	17" X 30" (26"D)
2"	S1730B26AA	17" X 30" (26"D)

LAST REVISION DATE:	JD #
AUG 2022	STANDARD

2" AND SMALLER DOUBLE CHECK ASSEMBLY (NTS)

WESTECH ENG. | DETAIL NO. 5310



ALL FITTINGS MUST BE COMPRESSION TYPE NO SOLDERED, FLARED OR JOINT FITTINGS

NOTES

1. SUBSTITUTES FOR ANY MATERIALS SHOWN SHALL BE APPROVED BY THE CITY ENGINEER
2. ALL PIPE AND STRUCTURE ZONES SHALL BE BACKFILLED USING ¾"-0" CRUSHED ROCK AND COMPACTED TO 91% MAXIMUM DENSITY AS DETERMINED BY AASHTO T–180
3. WHEN AN ACTIVE CATHODIC PROTECTED SYSTEM IS ENCOUNTERED, SCHEDULE 40 PVC SHALL BE INSTALLED ACCORDING TO STANDARD DRAWING NO. 316
4. METER BOX SHALL BE CENTERED OVER THE COMPLETED METER ASSEMBLY
5. METER BOX SHALL MATCH SIDEWALK GRADE (IF SIDEWALK EXISTS) OR BE SET FLUSH WITH GROUND SURFACE.
6. ALL FITTINGS SHALL BE COMPRESSION TYPE.
7. FOR LOCATION OF WATER MAIN, SEE STANDARD DRAWING NO. 103

CITY OF AMITY STANDARD CONSTRUCTION DRAWINGS
CITY HALL: 109 MADDOX AVENUE
MAILING ADDRESS: P.O. BOX 159 AMITY, OR 97101
OFFICE PHONE: (503) 835-3711

REVISIONS:

STANDARD 3/4" AND 1" WATER SERVICE

SCALE: N.T.S
DATE: March 2021
APPROVED BY: G. Mathis
STANDARD DRAWING 307

FACET ARCHITECTS
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3095 River Road N Salem, OR 97303 / 503.390.0281

REGISTERED PROFESSIONAL ENGINEER
76415PE
DIGITALLY SIGNED
OREGON
NOV. 12, 2008
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project:
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DISTRICT OFFICE BUILDING
503 OAK AVENUE
AMITY, OR 97101

consultants:

revisions:
1 ----
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date: 10.03.25
project: 3577.0000.0
dwg file:
drawn by: AK
checked by: JW

CONSTRUCTION DETAILS

sheet: C6.1
of:

AMITY SCHOOL DISTRICT OFFICE BUILDING

503 OAK AVENUE
AMITY, OREGON

DRAWINGS FOR:

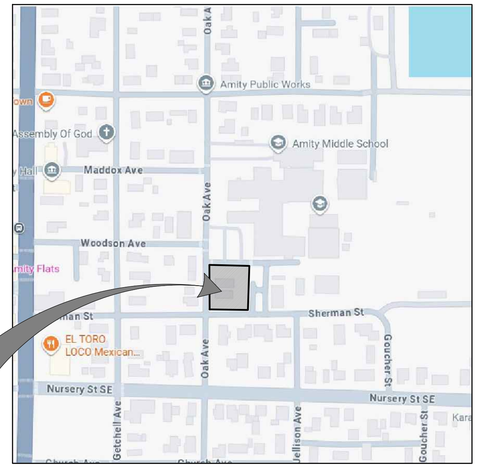
FACET ARCHITECTS
3095 RIVER ROAD N
SALEM, OREGON 97303
503 . 390 . 0281

LANDSCAPE ARCHITECT:

LAURUS DESIGNS, LLC
LAURA ANTONSON, RLA, ASLA
1012 PINE STREET
SILVERTON, OREGON 97381
503 . 784 . 6494
LAURA@LAURUSDESIGNS.COM

SHEET INDEX:

VICINITY MAP:



MAP COURTESY OF GOOGLE

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3095 River Road N Salem, OR 97303 / 503.390.0281

REGISTERED LANDSCAPE ARCHITECT
643
LAURA A. ANTONSON
OREGON
11/16/2007

1012 Pine Street
Silverton, Oregon 97381
503.784.6494
laurusdesigns.com

project:
AMITY SCHOOL DISTRICT
DISTRICT OFFICE BUILDING
503 OAK AVENUE
AMITY, OREGON 97101

consultants:
Laurus Designs, LLC

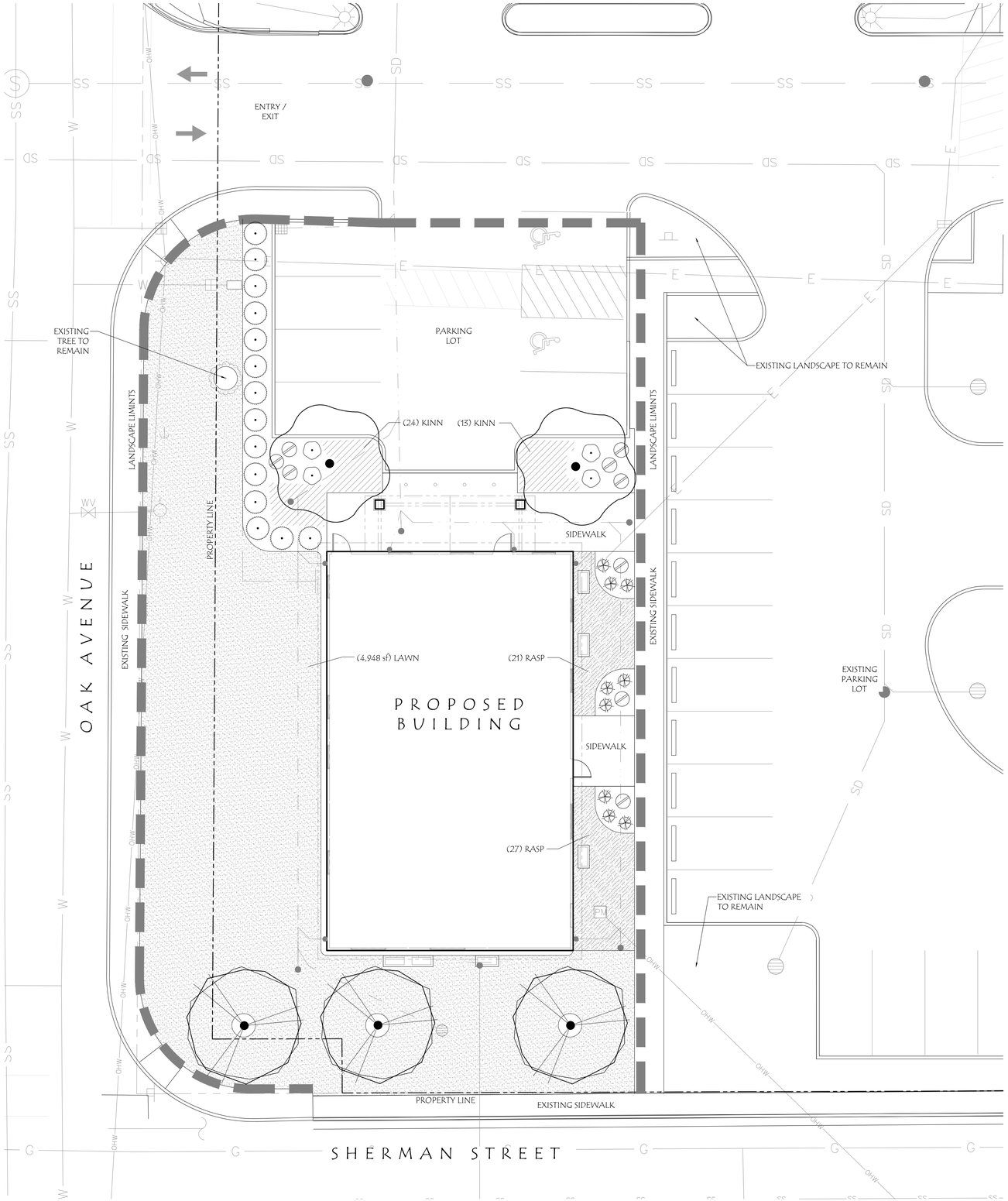
revisions:

date: 10-15-25
project: 1818P
drawn by: KN
checked by: LAA

COVER SHEET

sheet: L-000
of:

Attachment A



SITE INFORMATION:

DEVELOPED SITE AREA: 10,649 SF
PROPOSED LANDSCAPING: 4,824 SF

TREES REMOVED: 3
MITIGATION TREES REQUIRED: 3
TREES PROPOSED: 4

PARKING LOT LANDSCAPING:

TOTAL INTERIOR AREA OF OFF-STREET PARKING = 2,160 SF

MIN. 10% REQUIRED TO BE LANDSCAPED = 216 SF
INTERIOR LANDSCAPE PROVIDED = 728 SF

PARKING SPACES PROVIDED = 7
TREES REQUIRED (1 TREE / 10 SPACES) = 1

SCREENING = 4' HEIGHT MIN. HEDGE PROVIDED.

LEGEND:

EXISTING TREES TO REMAIN

GENERAL NOTES:

1. VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION. SEE CIVIL DRAWINGS. CALL BEFORE YOU DIG. NOTIFY LANDSCAPE ARCHITECT OF CONFLICTS.
2. SEE ARCHITECTURAL DRAWINGS FOR SITE PLAN.
3. SEE CIVIL DRAWINGS FOR GRADING AND UTILITIES.
4. PLANT SCHEDULE SEE THIS SHEET.
5. PLANTING NOTES SEE SHEET L-102.
6. PLANTING DETAILS SEE SHEETS L-102 AND L-103.
7. IRRIGATION PLAN SEE SHEET L-201.

PLANT SCHEDULE

TREES	QTY	BOTANICAL / COMMON NAME	SIZE
	2	PYRUS CALLERYANA `CHANTICLEER` / CHANTICLEER CALLERY PEAR	1 1/2" CAL., B&B
	3	TILIA CORDATA 'GREENSPIRE' / GREENSPIRE LITTLELEAF LINDEN	1 1/2" CAL., B&B

SHRUBS	QTY	BOTANICAL / COMMON NAME	SIZE
	9	ABELIA X GRANDIFLORA 'KALEIDOSCOPE' / KALEIDOSCOPE GLOSSY ABELIA	2 GAL.
	4	SPIRAEA JAPONICA `ANTHONY WATERER` / JAPANESE SPIREA	2 GAL.
	14	VACCINIUM OVATUM / EVERGREEN HUCKLEBERRY	5 GAL.

GRASSES / PERENNIALS	QTY	BOTANICAL / COMMON NAME	SIZE
	9	BOUTELOUA GRACILIS 'BLONDE AMBITION' / BLONDE AMBITION BLUE GRAMA	1 GAL.

GROUND COVERS		QTY	BOTANICAL / COMMON NAME	SIZE	SPACING
	KINN	37 (217 SF)	ARCTOSTAPHYLOS UVA-URSI / KINNIKINNICK	1 GAL.	30" o.c.
	RASP	48 (414 SF)	RUBUS CALYCINOIDES 'EMERALD CARPET' / EMERALD CARPET CREEPING BRAMBLE	1 GAL.	36" o.c.
	LAWN	4,824 SF	PROTIME PT301 WATER SMARTER FESCUE OR EQUAL	SOD OR SEED AT RATE OF 7-10 LBS PER 1,000 SF	

SCALE: 1" = 10' - 0"

0' 5' 10' 20'
SCALE

FACET ARCHITECTS
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REGISTERED 643
LAURA A. ANTONSON
OREGON
11/16/2007
LANDSCAPE ARCHITECT

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laurusdesigns.com

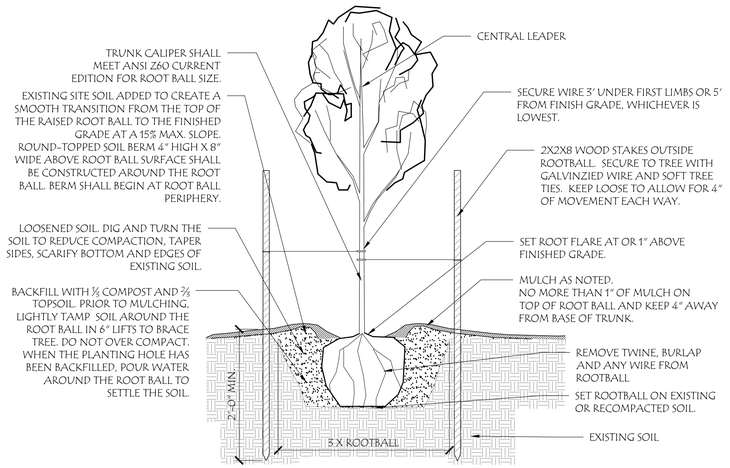
project:
AMITY SCHOOL DISTRICT
DISTRICT OFFICE BUILDING
503 OAK AVENUE
AMITY, OREGON 97101

revisions:

date: 10-15-25
project: 1818P
drawn by: KN
checked by: LAA

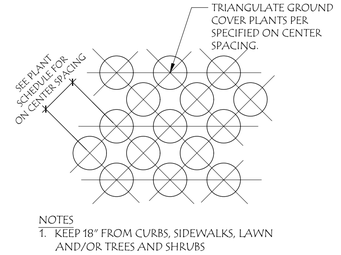
PLANTING PLAN

sheet: L-101
of:



1 TREE PLANTING AT 1 1/2" CALIPER OR GREATER

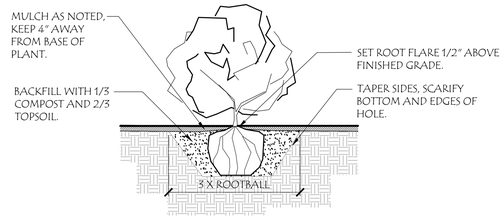
SCALE: NTS



NOTES
1. KEEP 18" FROM CURBS, SIDEWALKS, LAWN AND/OR TREES AND SHRUBS

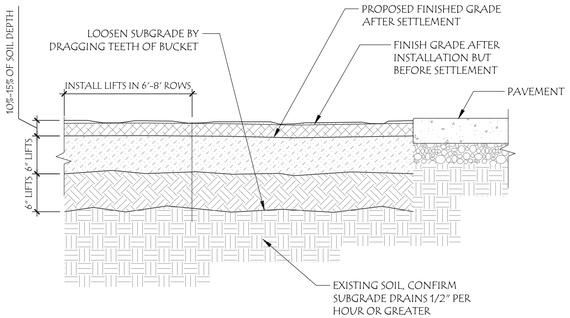
2 GROUND COVER SPACING DETAIL

SCALE: NTS



3 SHRUB AND GROUND COVER PLANTING DETAIL

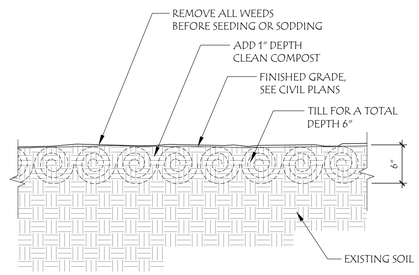
SCALE: NTS



NOTES:
1. MEANS AND METHODS OF SOIL COMPACTION SHALL BE DETERMINED AT TIME OF SOIL MOCK UP.
2. SOIL COMPACTION AFTER INSTALLATION SHALL BE 75 - 250 PSI AT SOIL MOISTURE BETWEEN FIELD CAPACITY AND WILTING POINT.
3. FOR SOIL DEPTHS SEE PLANTING SOIL SPECIFICATIONS OR PLANTING NOTES.
4. SEE PLANTING SOIL SPECIFICATIONS OR PLANTING NOTES FOR ADDITIONAL REQUIREMENTS.

4 MODIFIED EXISTING SOIL WITH AMENDMENTS

SCALE: NTS



NOTES:
1. SEE PLANTING SOIL SPECIFICATIONS OR PLANTING NOTES FOR ADDITIONAL REQUIREMENTS.

5 MODIFIED EXISTING SOIL FOR TURF

SCALE: NTS

GENERAL NOTES:

1. VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION. SEE CIVIL DRAWINGS. CALL BEFORE YOU DIG. NOTIFY LANDSCAPE ARCHITECT OF CONFLICTS.
2. SEE ARCHITECTURAL DRAWINGS FOR SITE PLAN.
3. SEE CIVIL DRAWINGS FOR GRADING AND UTILITIES.
4. PLANT SCHEDULE SEE SHEET L-101.
5. PLANTING NOTES SEE THIS SHEET.
6. PLANTING DETAILS SEE THIS SHEET AND L-103.
7. IRRIGATION PLAN SEE SHEET L-201.

GENERAL PLANTING NOTES:

1. THE LANDSCAPE CONTRACTOR IS TO THOROUGHLY REVIEW THE SITE. IF THERE ARE ANY DISCREPANCIES BETWEEN THE PLAN AND EXISTING CONDITIONS THE LANDSCAPE ARCHITECT IS TO BE IMMEDIATELY NOTIFIED.
2. IF THE LANDSCAPE CONTRACTOR STARTS WORK BEFORE SITE CONDITIONS ARE READY, THEY WILL BE RESPONSIBLE FOR ANY ADDITIONAL COSTS RELATING TO THE CONDITION.
3. PLANT MATERIALS SHALL BE FREE OF DISEASE, INJURY, AND INSECT INFESTATION. UNHEALTHY OR DAMAGED PLANTS SHALL BE REPLACED BY LANDSCAPE CONTRACTOR. ALL PLANT MATERIAL SHALL FOLLOW THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK PUBLICATIONS INCLUDING ANSI A300 AND ANSI Z60.
4. PLANTER BEDS: ALL PLANTER BEDS SHALL HAVE A MINIMUM DEPTH OF 8" WORKABLE TOPSOIL, COMPACTED AT A MAXIMUM OF 85% STANDARD PROCTOR MAXIMUM DRY DENSITY. TOPSOIL SHALL BE OVER ROCK-FREE SUBGRADE. SUBGRADE TO BE RIPPED AND TILLED TO 6" DEPTH AND REMOVE ALL DEBRIS 2" OR LARGER. SMALL PLANTER AREAS MAY REQUIRE REMOVAL OF COMPACTED SOIL, ROCK, GRAVEL TO AT LEAST 18" DEEP. LOOSEN AND AMEND SOIL BEFORE REPLACING IN 6" LIFTS TO FINISH GRADE.
5. LAWN BEDS: ALL LAWNS BEDS SHALL HAVE A MINIMUM DEPTH OF 3" WORKABLE TOPSOIL WITH 1" CLEAN, MATURE COMPOST. THOROUGHLY MIX AND TILL 2" INTO SUBGRADE FOR A TOTAL DEPTH OF 6" UNCOMPACTED, WORKABLE SOIL.
6. TOPSOIL MIX. AMEND EXISTING SOIL IN-SITU OR STOCK PILE. SOIL ON SITE. IMPORT TOPSOIL ONLY AS NECESSARY. CONDUCT A SOIL SAMPLE FOR EACH TYPE OF PLANTER AREA. SEND SAMPLES TO AN INDEPENDENT LABORATORY RECOGNIZED BY THE STATE DEPARTMENT OF AGRICULTURE AND SPECIALIZING IN AGRONOMIC SOIL ANALYSIS FOR TESTING AND AMENDMENT RECOMMENDATIONS.
7. SOIL AMENDMENTS: ADD A MINIMUM OF 3" CLEAN, MATURE COMPOST TO TOPSOIL FOR PLANTER AREAS AND 1" CLEAN, MATURE COMPOST FOR LAWN BEDS, TILL IN, FOR ALL BEDS.
   FOR BIDDING PURPOSES, ASSUME GENERAL SOIL AMENDMENTS AS FOLLOWS PER 1000' SF AT 6" LIFTS UNTIL SOIL ANALYSIS RECOMMENDATION IS COMPLETE, SEE ABOVE FOR COMPOST:
   - 25 LBS GYPSUM
   - 75 LBS LIME
   - 8 LBS SUPERPHOSPHATE
   - 3 LBS AMMONIUM NITRATE
   - 4 OZS ZINC SULFATE
   - 8 OZS MANGANESE SULFATE
8. MYCORRHIZAL FUNGI INOCULATE: USE A COMBINED ENDO AND ECTO MYCORRHIZAL FUNGI INOCULATE SUCH AS BIO-ORGANICS OR EQUAL AT A RATE OF:
   - 2" CAL. B&B TREE: 3 TEASPOONS
   - 5 GALLON: 2 TEASPOONS
   - 1-3 GALLON PLANT: 1 TEASPOON
   - 4" POT: 1/4 TEASPOON
   - SEED/TURF: 1 LB PER 2000 SF

   DO NOT USE ON RHODODENDRON/AZALEA, HUCKLEBERRY, SEDGE, RUSH, HEATH.
9. PLANTING: VERIFY SOIL IS APPROPRIATELY DRY FOR DIGGING. SEE DETAILS THIS SHEET FOR HOLE DEPTH, WIDTH AND BACKFILL. DEEP WATER IMMEDIATELY AFTER PLANTING.
10. MOUND PLANTING BED AREAS 3% FOR POSITIVE DRAINAGE AND AESTHETICS. SLOPE AWAY FROM BUILDINGS.
11. MULCH: SPREAD 2" MAX. DEPTH AGED FIR MULCH IN ALL PLANTER BEDS AND OPEN LANDSCAPE AREAS. KEEP MULCH AWAY FROM PLANT BASE.
12. FERTILIZER: DO NOT USE ADDITIONAL FERTILIZERS ON NEWLY PLANTED TREES FOR FIRST YEAR.
13. TREES: TREE STAKES TO BE REMOVED AFTER 6 MONTHS.
14. LAWN: PROVIDE 48" DIAMETER LAWN CUT-OUTS AROUND ALL TREES. MULCH CUT-OUTS, KEEP MULCH AT LEAST 4" AWAY FROM BASE OF TREE. KEEP LAWN 12" FROM FENCES AND BUILDINGS. MULCH AREAS AT FENCE AND BUILDING.
15. SEED: HYDROSEED IN SPRING AFTER MARCH 15TH OR FALL BEFORE OCTOBER 15TH. VERIFY SEED APPLICATION RATE WITH MANUFACTURER FOR HYDROSEEDING. CREATE SLURRY MADE OF SEED, WATER, MULCH MATERIAL. MIXTURE MUST BE COMBINED AND APPLIED IN SUCH A MANNER THAT THE RATE OF APPLICATION WILL RESULT IN AN EVEN DISTRIBUTION OF ALL MATERIAL. HYDRAULIC SEEDING EQUIPMENT SHALL BE CAPABLE OF APPLYING A HOMOGENOUS MIXTURE THROUGH A SPRAY NOZZLE. THE PUMP SHALL PRODUCE A SUFFICIENT PRESSURE TO APPLY A UNIFORM SPRAY CAPABLE OF REACHING ALL SEEDED AREAS FROM THE ROAD OR WALKWAYS. SEED SHALL NOT BE PLACED IN SLURRY PRIOR TO 30 MINUTES BEFORE APPLICATION. KEEP SEEDS MOIST AT ALL TIMES FOR 3 WEEKS OR UNTIL SEEDLINGS ARE 1 INCH TALL. GRASSES ARE CONSIDERED ESTABLISHED WHEN THE SEEDLINGS ARE WELL ROOTED AND CANNOT BE EASILY PULLED FROM THE SOIL.
16. PLANT QUANTITIES SHOWN ARE INTENDED TO ASSIST THE CONTRACTOR IN EVALUATING THEIR OWN TAKE-OFFS. IF THERE IS A DISCREPANCY BETWEEN PLANT QUANTITIES AND SYMBOLS SHOWN, USE THE LARGER OF THE TWO AMOUNTS. CONTRACTOR IS RESPONSIBLE FOR ALL FINAL QUANTITIES.
17. NOTIFY LANDSCAPE ARCHITECT OF SUBSTITUTIONS.
18. PLANTS TO BE UNDER WARRANTY FOR A MINIMUM OF 12 MONTHS STARTING FROM FULL COMPLETION.

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REGISTERED 643 LANDSCAPE ARCHITECT
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consultants:

revisions:

date: 10-15-25
project: 1818P
drawn by: KN
checked by: LAA

PLANTING NOTES AND DETAILS

sheet: L-102

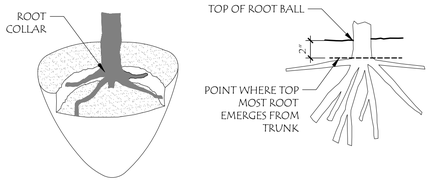
of:

Attachment A

GENERAL NOTES:

1. VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION. SEE CIVIL DRAWINGS. CALL BEFORE YOU DIG. NOTIFY LANDSCAPE ARCHITECT OF CONFLICTS.
2. SEE ARCHITECTURAL DRAWINGS FOR SITE PLAN.
3. SEE CIVIL DRAWINGS FOR GRADING AND UTILITIES.
4. PLANT SCHEDULE SEE SHEET L-101.
5. PLANTING NOTES SEE SHEET L-102.
6. PLANTING DETAILS SEE THIS SHEET AND L-102.
7. IRRIGATION PLAN SEE SHEET L-201.

ACCEPTABLE

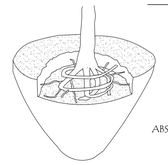


THE POINT WHERE TOP-MOST ROOT(S) EMERGES FROM THE TRUNK (ROOT COLLAR) SHOULD BE WITHIN THE TOP 2" OF SUBSTRATE. THE ROOT COLLAR AND THE ROOT BALL INTERIOR SHOULD BE FREE OF DEFECTS INCLUDING CIRCLING, KINKED, ASCENDING, AND STEM GIRDLING ROOTS. STRUCTURAL ROOTS SHALL REACH THE PERIPHERY NEAR THE TOP OF THE ROOT BALL.

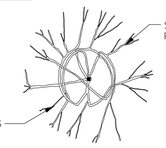
ROOTS RADIATE FROM TRUNK AND REACH SIDE OF ROOT BALL WITHOUT DEFECTING DOWN OR AROUND.

NOTES:
1- OBSERVATIONS OF ROOTS SHALL OCCUR PRIOR TO ACCEPTANCE. ROOTS AND SOIL MAY BE REMOVED DURING THE OBSERVATION PROCESS; SUBSTRATE/SOIL SHALL BE REPLACED AFTER THE OBSERVATIONS HAVE BEEN COMPLETED. DO NOT COVER ROOT FLARE.

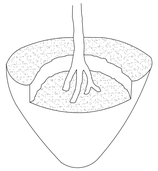
REJECTABLE



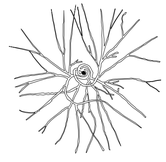
STRUCTURAL ROOTS CIRCLE INTERIOR OF ROOT BALL. NO STRUCTURAL ROOTS ARE HORIZONTAL AND REACH THE ROOT BALL PERIPHERY NEAR THE TOP OF THE ROOT BALL.



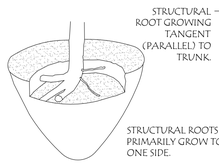
ONLY ABSORBING ROOTS REACH THE PERIPHERY NEAR THE TOP OF THE ROOT BALL. STRUCTURAL ROOTS MOSTLY WRAP OR ARE DEFLECTED ON THE ROOT BALL INTERIOR.

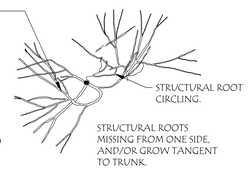


STRUCTURAL ROOTS DESCEND INTO ROOT BALL INTERIOR. NO STRUCTURAL ROOTS ARE HORIZONTAL AND REACH THE ROOT BALL PERIPHERY NEAR THE TOP OF THE ROOT BALL.



STRUCTURAL ROOTS CIRCLE AND DO NOT RADIATE FROM THE TRUNK.

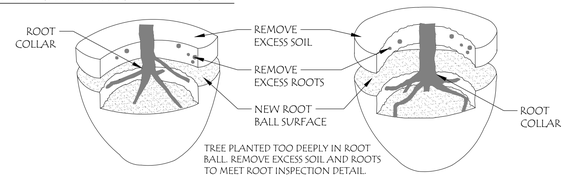




1 ROOT OBSERVATIONS: BALLED AND BURLAPPED

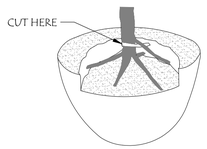
SCALE: NTS

STEP 1: REMOVE SOIL AND ROOTS OVER ROOT COLLAR

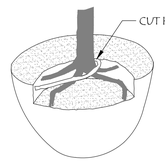


TREE PLANTED TOO DEEPLY IN ROOT BALL. REMOVE EXCESS SOIL AND ROOTS TO MEET ROOT INSPECTION DETAIL.

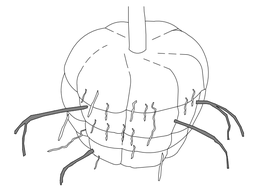
STEP 2: REMOVE DEFECTS



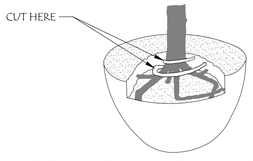
FIVE STRUCTURAL (LARGE) ROOTS SHOWN IN GRAY. REMOVE STRUCTURAL (WHITE) ROOT WRAPPING ROOT COLLAR.



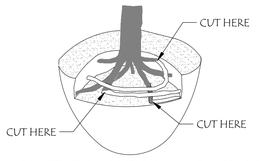
FOUR STRUCTURAL ROOTS SHOWN IN GRAY. REMOVE ROOT (WHITE) GROWING OVER STRUCTURAL ROOTS.



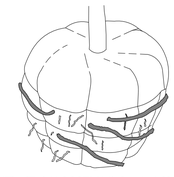
REMOVE STRUCTURAL ROOTS (4 SHOWN IN GRAY) EXTENDING FROM ROOT BALL.



SIX STRUCTURAL ROOTS SHOWN IN GRAY. REMOVE STRUCTURAL ROOTS (WHITE) GROWING OVER ROOT COLLAR BY CUTTING THEM JUST BEFORE THEY MAKE AN ABRUPT TURN.



SEVEN STRUCTURAL ROOTS SHOWN IN GRAY. REMOVE STRUCTURAL ROOTS (WHITE) GROWING AROUND OR OVER ROOT COLLAR BY CUTTING THEM JUST BEFORE THEY MAKE AN ABRUPT TURN.



REMOVE STRUCTURAL ROOTS (4 SHOWN IN GRAY) DEFLECTED ON ROOT BALL PERIPHERY. SMALL ROOTS (1/4" OR LESS) AT THE PERIPHERY OF THE ROOT BALL ARE NOT DEFINED AS DEFECTS AND DO NOT NEED TO BE REMOVED.

NOTES:
1- ALL TREES SHOWN ARE REJECTABLE UNLESS THEY UNDERGO RECOMMENDED CORRECTION.
2- FIRST STEP 1, THEN STEP 2. ADJUST HOLE DEPTH TO ALLOW FOR THE REMOVAL OF EXCESS SOIL AND ROOTS OVER THE ROOT COLLAR.
3- ROOTS AND SOIL MAY BE REMOVED DURING THE CORRECTION PROCESS; SUBSTRATE/SOIL SHALL BE REPLACED AFTER THE CORRECTION HAS BEEN COMPLETED. DO NOT COVER ROOT FLARE.
4- TREES SHALL PASS ROOT OBSERVATIONS DETAIL FOLLOWING CORRECTION.

2 ROOT CORRECTION: BALLED AND BURLAPPED

SCALE: NTS

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revisions:

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project: 1818P
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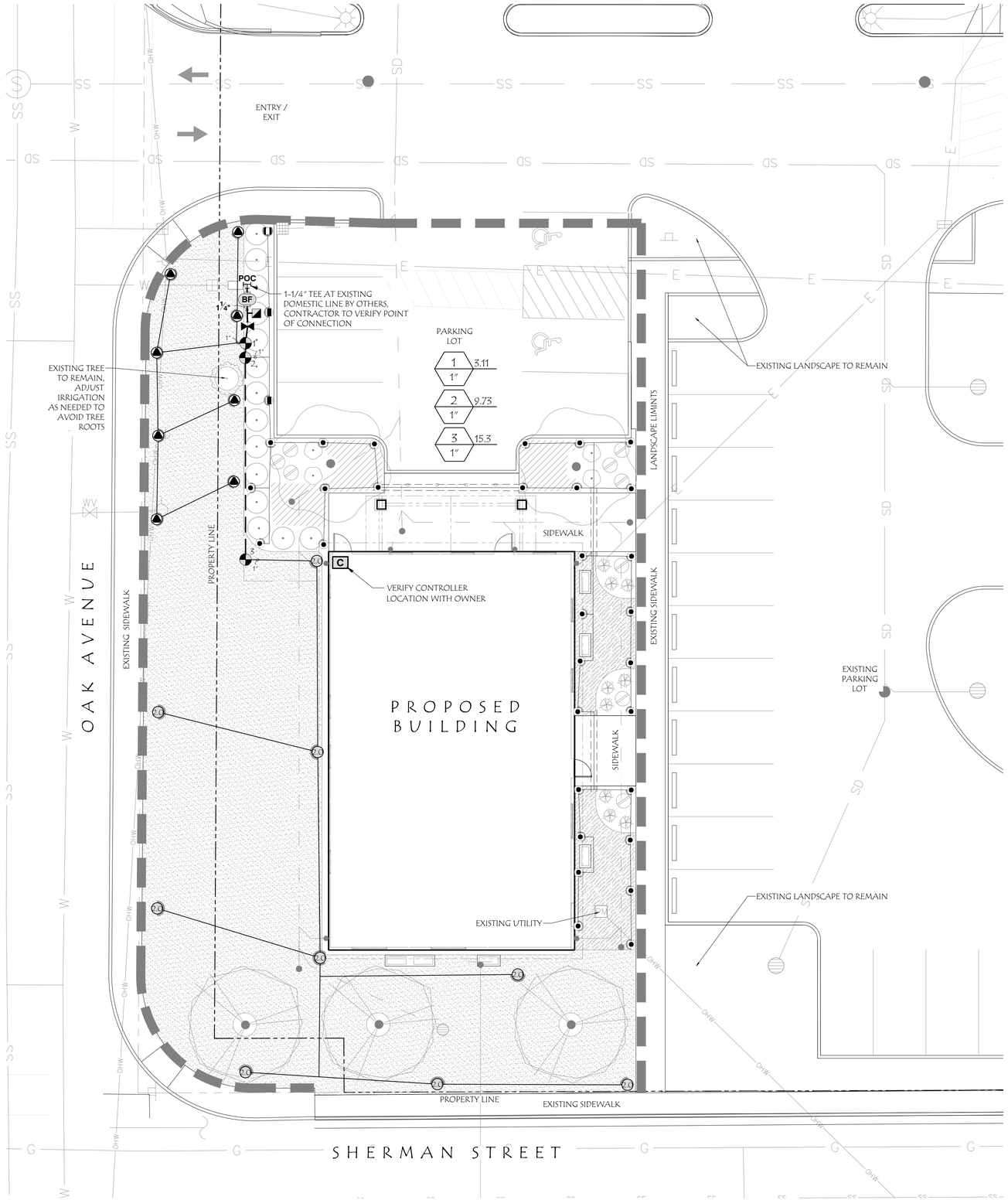
checked by: LAA

PLANTING DETAILS

sheet: L-103
of:

Attachment A



LEGEND:

EXISTING TREES TO REMAIN

VALVE CALLOUT

- VALVE NUMBER
- VALVE FLOW
- VALVE SIZE

GENERAL NOTES:

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2. SEE ARCHITECTURAL DRAWINGS FOR SITE PLAN.
3. SEE CIVIL DRAWINGS FOR GRADING AND UTILITIES.
4. IRRIGATION SCHEDULE SEE THIS SHEET.
5. IRRIGATION NOTES AND DETAILS SEE SHEET L-202.
6. PLANTING PLAN SEE SHEET L-101.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY*	PSI
1000	HUNTER MP1000 PROS-04-PRS40-CV-F TURF ROTATOR, 41N. POP-UP WITH CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.	8	40
LST SST RST	HUNTER MP STRIP PROS-06-PRS40-CV-F SHRUB ROTATOR, 61N. POP-UP WITH FACTORY INSTALLED CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE. LST=IVORY LEFT STRIP, SST=BROWN SIDE STRIP, RST=COPPER RIGHT STRIP ON PRS40 BODY.	3	40
800 A 800 F	HUNTER MP800SR PROS-06-PRS40-CV-F SHRUB ROTATOR, 61N. POP-UP WITH CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. ADJ=ORANGE AND GRAY (ARC 90-210), 360=LIME GREEN AND GRAY (ARC 360)	30	40

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY*	PSI	GPM	RADIUS
2.0	HUNTER I-20-04 2.0 TURF ROTOR, 41N. POP-UP. ADJUSTABLE AND FULL CIRCLE. PLASTIC RISER. DRAIN CHECK VALVE. STANDARD NOZZLE.	9	35	1.7	33'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY*
	HUNTER PGV-101G 1" PLASTIC ELECTRIC REMOTE CONTROL VALVE, FOR RESIDENTIAL/LIGHT COMMERCIAL USE. FEMALE NPT INLET/OUTLET. GLOBE CONFIGURATION, WITH FLOW CONTROL.	3
	HUNTER HQ-44LRC QUICK COUPLER VALVE, YELLOW RUBBER LOCKING COVER, RED BRASS AND STAINLESS STEEL, WITH 1" NPT INLET, 2-PIECE BODY.	1
	SHUT OFF VALVE BRASS, LINE SIZE	1
BF	ZURN 950XLT 1" DOUBLE CHECK VALVE ASSEMBLY	1
C	HUNTER P2C-400 (VERIFY LOCATION WITH OWNER) LIGHT COMMERCIAL & RESIDENTIAL CONTROLLER, 4-STATION BASE MODULE CONTROLLER, 120 VAC, OUTDOOR/INDOOR MODEL	1
POC	POINT OF CONNECTION 1 1/4" TEE AT DOMESTIC LINE (CONTRACTOR TO VERIFY)	1
	IRRIGATION LATERAL LINE: 1" PVC CLASS 200 SDR 21	715 LF
	IRRIGATION MAINLINE: PVC SCHEDULE 40	50 LF
	PIPE SLEEVE: 4" PVC SCHEDULE 40	52 LF

*QUANTITIES FOR ESTIMATING PURPOSES ONLY

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	HUNTER PGV-101G	1"	TURF ROTARY	3.11	54.9	41.5	47.0	0.31 in/h
2	HUNTER PGV-101G	1"	SHRUB ROTARY	9.73	52.4	42.6	48.1	0.51 in/h
3	HUNTER PGV-101G	1"	TURF ROTOR	15.3	52.4	38.8	45.0	0.4 in/h
	Common Wire				48.6			

SCALE: 1" = 10' - 0"

0' 5' 10' 20'

SCALE

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REGISTERED 643
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LANDSCAPE ARCHITECT

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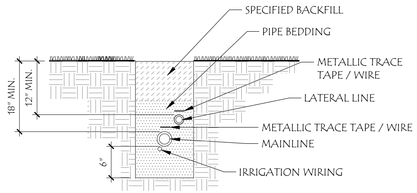
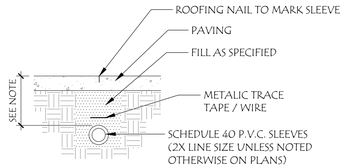
IRRIGATION PLAN

sheet: L-201
of:



1 TYPICAL TRENCHING

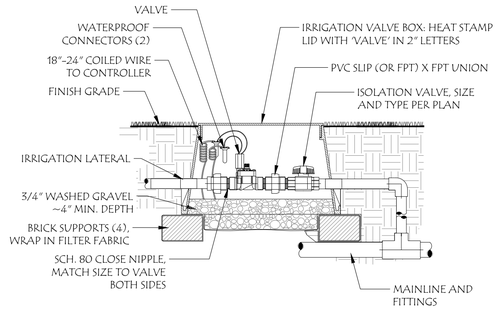
SCALE: NTS



NOTES:
1. EXTEND IRRIGATION SLEEVE 6" BEYOND EACH SIDE OF PAVING.
2. 18" MIN. DEPTH OF MAINLINE
3. 14" MIN. DEPTH OF LATERAL @ PAVING
4. 24" MIN. DEPTH OF LINES UNDER DRIVING SURFACES

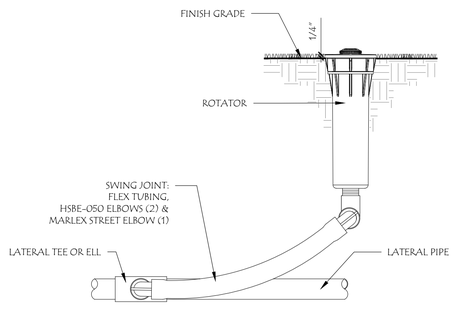
2 IRRIGATION SLEEVES

SCALE: NTS



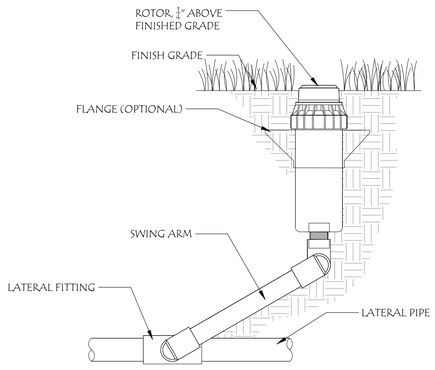
3 CONTROL ZONE VALVE

SCALE: NTS



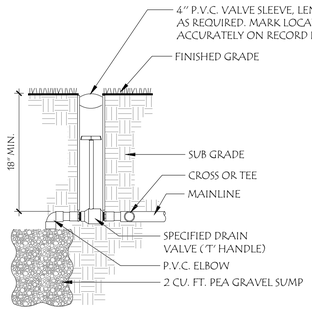
4 MP ROTATOR SWING JOINT

SCALE: NTS



5 POP-UP ROTOR

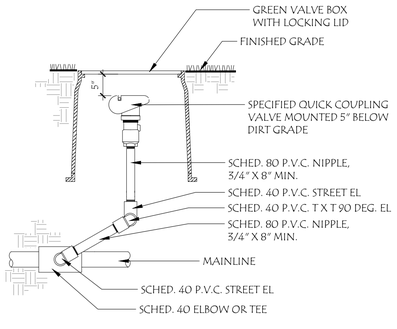
SCALE: NTS



NOTE:
MANUAL DRAIN VALVES ARE TO BE PLACED AT ALL LOW POINTS IN MAINLINE THROUGHOUT THE SITE.

6 MANUAL DRAIN VALVE

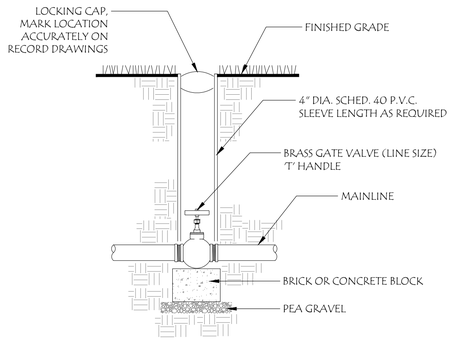
SCALE: NTS



NOTE:
SPACE 100' O.C. ALONG THE MAINLINE AND AS NOTED ON PLAN.

7 QUICK COUPLER VALVE

SCALE: NTS



8 BRASS SHUT OFF VALVE

SCALE: NTS

GENERAL NOTES:

1. VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION. SEE CIVIL DRAWINGS. CALL BEFORE YOU DIG. NOTIFY LANDSCAPE ARCHITECT OF CONFLICTS.
2. SEE ARCHITECTURAL DRAWINGS FOR SITE PLAN.
3. SEE CIVIL DRAWINGS FOR GRADING AND UTILITIES.
4. IRRIGATION SCHEDULE SEE SHEET L-201.
5. IRRIGATION NOTES AND DETAILS SEE THIS SHEET.
6. PLANTING PLAN SEE SHEET L-101.

IRRIGATION NOTES:

1. IRRIGATION SYSTEM DESIGN BASED ON 34.2 GPM AT 60 PSI. IF METER SIZE, FLOW (GPM) AND/OR STATIC PRESSURE (PSI) VARY, CONTACT LANDSCAPE ARCHITECT.
2. IRRIGATION DESIGN IS FROM THE POINT OF CONNECTION (POC) ONLY. IRRIGATION CONTRACTOR IS TO VERIFY POINT OF CONNECTION IN THE FIELD. INSTALLER IS TO CONFIRM THE MINIMUM DISCHARGE REQUIREMENTS OF THE POINT OF CONNECTION AS INDICATED ON THE LEGEND PRIOR TO INSTALLATION.
3. THE PRESSURE REQUIREMENT AT THE POINT OF CONNECTION IS BASED ON NO MORE THAN 5-FEET OF ELEVATION CHANGE IN THE AREAS OF IRRIGATION.
4. ALL PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ACCORDING TO LOCAL BUILDING, ELECTRICAL AND PLUMBING CODES.
5. IRRIGATION CONTRACTOR WILL ARRANGE INSPECTIONS REQUIRED BY LOCAL AGENCIES AND ORDINANCES DURING THE COURSE OF CONSTRUCTION AS REQUIRED. ALL WIRING TO BE PER LOCAL CODE. BACKFLOW PREVENTION PER LOCAL CODE.
6. LOCATION OF IRRIGATION COMPONENTS SHOWN ON DRAWINGS IS APPROXIMATE. ACTUAL PLACEMENT MAY VARY SLIGHTLY. PIPE LOCATIONS ARE DIAGRAMMATIC. VALVES AND MAINLINE SHOWN IN PAVED AREAS ARE FOR GRAPHIC CLARITY ONLY. ADJUST SLEEVE LOCATIONS AS NEEDED. USE ADDITIONAL SLEEVES SO THERE IS A MAXIMUM OF TWO LINES PER SLEEVE. LOCATE VALVES AT EDGE OF PLANT BEDS OR LAWN FOR GOOD ACCESS. PLACE VALVES INSIDE ROW LIMITS IF POSSIBLE, FIELD VERIFY.
7. INSTALL IRRIGATION MAINS WITH A MINIMUM 18" OF COVER BASED ON FINISH GRADES. INSTALL IRRIGATION LATERALS WITH A MINIMUM 12" OF COVER BASED ON FINISH GRADES. BACKFILL TRENCHES WITH NATIVE ON-SITE SOIL, FREE OF ROCK AND OTHER DELETERIOUS MATERIAL IN 4" LIFTS, TAMPING FIRMLY TO ENSURE COMPACTION, MATCH GRADE TO EXISTING PLANTER AREAS. IRRIGATION SLEEVES AT DRIVING SURFACES TO BE 24" DEEP. BACKFILL WITH NATIVE ON-SITE SOIL, FREE OF ROCK AND OTHER DELETERIOUS MATERIAL IN 4" LIFTS, TAMPING FIRMLY TO ENSURE COMPACTION. SEE CIVIL DRAWINGS FOR PAVEMENT DETAILS. SHARE TRENCHES WHENEVER POSSIBLE.
8. USE IN-LINE CHECK VALVES TO AVOID LOW LINE DRAINAGE.
9. PLACE ISOLATION VALVES AT POINT OF CONNECTION AND EACH VALVE BOX.
10. LAWN ROTATORS: 4" POP-UPS IN LAWN AREAS, SEE HEAD TYPES IN SCHEDULE. KEEP 2" FROM PAVING AND 4" FROM WALLS.
11. LAWN ROTORS: 4" POP-UPS IN LAWN AREAS, SEE HEAD TYPES IN SCHEDULE. KEEP 2" FROM PAVING AND 4" FROM WALLS.
12. SHRUB ROTATORS: 6" POP-UPS IN PLANTER AREAS, SEE HEAD TYPES IN SCHEDULE. KEEP 2" FROM PAVING AND 4" FROM WALLS.
13. CONTRACTOR MAY ADJUST HEAD RADIUS/NOZZLE SIZE TO IMPROVE FOR FULL PLANT COVERAGE. NOTIFY LANDSCAPE ARCHITECT FOR RECORD KEEPING.
14. VALVE BOXES: RAINBIRD VB-6RND OR APPROVED EQUAL. VALVE BOXES LOCATED WITHIN LANDSCAPE AREAS ARE TO HAVE A GREEN LID. VALVE BOXES LOCATED IN CONCRETE PAVEMENT ARE TO HAVE BLACK LID. IRRIGATION BOXES AT RAISED PLANTERS ARE TO HAVE 'METER HATCH' TO ACCESS ISOLATION VALVES.
15. CONTROLLER: EXTERIOR, VERIFY LOCATION WITH OWNER.
16. ALL WIRE SPLICES OR CONNECTIONS SHALL BE MADE WITH APPROVED WATERPROOF WIRE CONNECTORS AND BE IN A VALVE OR SPLICE BOX.
17. ALL CONTROL WIRING DOWNSTREAM OF THE CONTROLLER IS TO BE 14 AWG, UL APPROVED DIRECT BURY.
18. CONTRACTOR TO PROVIDE AS-BUILTS TO CLIENT AND INCLUDE ZONE INFORMATION IN CONTROLLER BOX.
19. THE DESIGN IS BASED ON THE SITE INFORMATION AND/OR DRAWING SUPPLIED WITH THE DESIGN CRITERIA BEING SET.AREA TO BE IRRIGATED, EQUIPMENT MANUFACTURER AND MODEL TO BE USED, WATER SOURCE INFORMATION, ELECTRICAL POWER AVAILABILITY, ETC...).

PVC PIPE SIZING SCHEDULE:

PIPE SIZING IS BASED ON GALLONS PER MINUTE (GPM) DEMAND DOWNLINE. FLOW VELOCITIES IN PIPE SHALL NOT EXCEED 5 FEET PER SECOND.

MAX. GPM, CLASS 200 PVC PIPE	MAX. GPM, SCHEDULE 40 PVC PIPE
3/4" = 10 GPM	3/4" = 8 GPM
1" = 16 GPM	1" = 12 GPM
1 1/4" = 26 GPM	1 1/4" = 22 GPM
1 1/2" = 35 GPM	1 1/2" = 30 GPM
2" = 55 GPM	2" = 50 GPM
2 1/2" = 80 GPM	2 1/2" = 70 GPM
3" = 120 GPM	3" = 110 GPM
4" = 200 GPM	4" = 190 GPM

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REGISTERED 643 LANDSCAPE ARCHITECT LAURA A. ANTONSON OREGON 11/16/2007

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revisions:
1
2

date: 10-15-25
project: 1818P
drawn by: KN
checked by: LAA

IRRIGATION NOTES AND DETAILS

sheet: L-202
of:

GENERAL NOTES

CODES AND STANDARDS:

A. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE 2022 OREGON STRUCTURAL SPECIALTY CODE AND 2021 EDITION INTERNATIONAL BUILDING CODE INCLUDING REFERENCE STANDARDS LISTED BELOW:
- AMERICAN NATIONAL STANDARDS INSTITUTE/AMERICAN SOCIETY OF CIVIL ENGINEERS - (ANSI/ASCE 7-2016)
- AMERICAN CONCRETE INSTITUTE (ACI 301 - 2016, ACI 318 - 2019)
- NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION (NDS - 2018)
- AMERICAN NATIONAL STANDARDS INSTITUTE/TRUSS PLATE INSTITUTE (ANSI/TPI 1-2014)

DESIGN LOADS:

A. ROOF LOADS:
DEAD LOAD = 15 psf +5psf SOLAR
SNOW LOAD = 20 psf (MIN.) or p_f + DRIFT
p_g = 15 psf p_f = 10.5 psf
c_e = 1.0 c_t = 1.0

B. ATTIC LOADS:
DEAD LOAD = 12 psf
LIVE LOAD = 65 psf MECHANICAL

C. WIND DESIGN DATA:
ULTIMATE WIND SPEED = 97 mph
EXPOSURE = "C"
RISK CATEGORY II
MWFRS - DIRECTIONAL PROCEDURE: (ASCE 7-16 CH. 27)
K_d = 0.85
G = 0.85
K_{zt} = 1.0

D. SEISMIC DESIGN DATA:
S_S = 0.909 S_1 = 0.455
SITE CLASS = D
S_{DS} = 0.727 S_{D1} = 0.559
SEISMIC DESIGN CATEGORY D
BASIC SEISMIC FORCE RESISTING SYSTEM:
- PLYWOOD SHEARWALLS R = 6.5
EQUIVALENT LATERAL FORCE ANALYSIS
RISK CATEGORY = II

E. IMPORTANCE FACTORS:
SNOW (I_s) = 1.0
SEISMIC (I_e) = 1.0

GENERAL REQUIREMENTS:

A. IT IS THE RESPONSIBILITY OF THE BUILDER/CONTRACTOR TO OBTAIN APPROPRIATE APPROVALS AND NECESSARY PERMITS FROM CITY, COUNTY, STATE, OR FEDERAL AGENCIES, AS REQUIRED.
B. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION METHODS, TECHNIQUES, SEQUENCING, AND SAFETY REQUIRED TO COMPLETE CONSTRUCTION.
C. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS PRIOR TO PROCEEDING WITH CONSTRUCTION. ALL DISCREPANCIES SHALL BE APPROVED BY THE ARCHITECT OR ENGINEER OF RECORD.
D. CONTRACTOR SHALL VERIFY ALL REQUIRED PENETRATIONS ON ARCHITECTURAL, MECHANICAL AND ELECTRICAL PLANS. ALL DIMENSIONS SHALL BE FIELD VERIFIED AS EARLY AS POSSIBLE.
E. CONTRACTOR SHALL THOROUGHLY REVIEW AND REDLINE ALL SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE ENGINEER AND ARCHITECT. SUBMIT SHOP DRAWINGS IN A TIMELY FASHION TO ALLOW 10 BUSINESS DAYS FOR REVIEW BY DESIGN TEAM. ALL MODIFICATIONS OR COMMENTS MADE DURING REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE PLANS OR SPECIFICATIONS.

STRUCTURAL INSPECTION AND TESTING:

A. CONTRACTOR SHALL PROVIDE WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK AS REQUIRED BY OSSC SECTION 1704.2.3.
B. ALL CONSTRUCTION SHALL BE INSPECTED IN CONFORMANCE WITH THE OREGON STRUCTURAL SPECIALTY CODE.
C. ALL ITEMS NOTED AS REQUIRING SPECIAL INSPECTION PER THE OREGON STRUCTURAL SPECIALTY CODE IN ACCORDANCE WITH SECTION 1705, SHALL BE PERFORMED BY A QUALIFIED PERSON WHO CAN DEMONSTRATE COMPETENCE FOR THE PARTICULAR TYPE OF CONSTRUCTION BEING INSPECTED. THE SPECIAL INSPECTIONS SHALL BE PERFORMED IN ADDITION TO THE INSPECTIONS REQUIRED BY THE OREGON STRUCTURAL SPECIALTY CODE, THE PLANS AND SPECIFICATIONS, THE ARCHITECT OF RECORD, AND THE BUILDING OFFICIALS.

REQUIRED SPECIAL INSPECTIONS

DESCRIPTION OF WORK IBC SECTION 1704	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS[3]	PERIODIC[3]	
PREFAB. CONSTRUCTION (1704.2.5)			REF. NOTE 5
CONCRETE (1705.3)			
REINFORCING PLACEMENT		X	
REINFORCING WELDING	X		REF. NOTE 4
ANCHOR BOLTS & INSERTS		X	
PREPARATION OF TEST SPECIMENS	X		F'_c=2500 psi
CONCRETE PLACEMENT	X		
SOILS (1705.6)			
GRADING, EXCAVATION & BACKFILL			BY GEOTECH
SOIL PREP PRIOR TO FOUNDATION PLACEMENT			BY GEOTECH
POST INSTALLED ANCHORS (1705.1.1 & TABLE 1705.3 (4))			
ADHESIVE ANCHOR INSTALLATION		X	REF. NOTE 6
MECHANICAL ANCHOR INSTALLATION		X	REF. NOTE 6

STRUCTURAL INSPECTION AND TESTING CONT.:

1. THE ITEMS MARKED WITH AN "X" SHALL BE INSPECTED IN ACCORDANCE WITH OSSC SECTION 1705 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE MATERIAL SAMPLING AND TESTING SECTION, THE PROJECT SPECIFICATIONS AND THE SPECIFIC GENERAL NOTES SECTIONS. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, ENGINEER, CONTRACTOR AND BUILDING OFFICIAL. ANY MATERIALS WHICH FAIL TO MEET THE PROJECT SPECIFICATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND TO THE BUILDING OFFICIAL. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.
2. SPECIAL INSPECTION IS NOT REQUIRED FOR WORK PERFORMED BY AN APPROVED FABRICATOR PER OSSC SECTION 1704.2.5.1.
3. CONTINUOUS SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON THE SITE AT ALL TIMES OBSERVING THE WORK REQUIRING THE SPECIAL INSPECTION. PERIODIC SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON THE SITE AT TIME INTERVALS NECESSARY TO CONFIRM THAT ALL WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE.
4. PERIODIC SPECIAL INSPECTION IS ONLY REQUIRED FOR WELDING OF ASTM A706 REINFORCING STEEL NOT GREATER THAN NO. 5 USED FOR EMBEDMENTS, PROVIDED THE MATERIALS, QUALIFICATIONS OF WELDING PROCEDURES AND WELDERS ARE VERIFIED PRIOR TO THE START OF WORK: PERIODIC INSPECTIONS ARE MADE OF WORK IN PROGRESS; AND A VISUAL INSPECTION OF ALL WELDS IS MADE PRIOR TO COMPLETION OR PRIOR TO SHIPMENT OF SHOP WELDING.
5. INSPECTION FOR PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE MATERIAL USED IN THE CONSTRUCTION TOOK PLACE ON SITE. CONTINUOUS INSPECTION WILL NOT BE REQUIRED DURING PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE.
6. POST INSTALLED ANCHORS REQUIRE PERIODIC INSPECTION (OSSC TABLE 1705.3) UNLESS A MORE STRINGENT REQUIREMENT IS IMPOSED BY THE INDIVIDUAL ANCHOR'S RESEARCH REPORT.

D. OWNER OR OWNERS REPRESENTATIVE TO RETAIN AN APPROVED SPECIAL INSPECTOR TO OBSERVE AND APPROVE ALL REQUIRED SPECIAL INSPECTION ITEMS.
E. SPECIAL INSPECTION REPORTS TO BE PROVIDED TO THE BUILDING OFFICIAL & DESIGN PROFESSIONALS IN A TIMELY MANNER AND IN ACCORDANCE WITH OSSC SECTION 1704.2.4.

FOUNDATIONS:

A. ALL FOOTINGS TO REST ON FIRM, UNDISTURBED SOIL, OR STRUCTURAL FILL, FREE OF ORGANIC MATERIAL, AND CAPABLE OF SUPPORTING A MINIMUM ALLOWABLE BEARING PRESSURE OF 1,500 psf. UNDER COMBINED DEAD AND LIVE LOADS. SEE GRI GEOTECH REPORT , DATED FEB. 22, 2023.
B. ALL SLABS-ON-GRADE SHALL BE UNDERLAIN BY A MINIMUM OF 6" OF FREE- DRAINING (LESS THAN 5% PASSING THE NO. 200 SIEVE), WELL GRADED, CRUSHED ROCK. THE BASE COURSE MATERIALS SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY.

CONCRETE:

A. ALL CONCRETE WORK SHALL CONFORM TO OSSC CHAPTER 19, "CONCRETE," ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE," ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE," ACI 117, "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS."
B. SPECIAL INSPECTIONS: ALL CONCRETE MIXES REQUIRE SPECIAL INSPECTION UNLESS OTHERWISE NOTED.
C. REINFORCING: ALL CONCRETE SHALL BE REINFORCED UNLESS SPECIFICALLY NOTED IN PLANS AND DETAILS. WHERE REINFORCING IS NOT INDICATED, PROVIDE REINFORCING AS SHOWN IN SIMILAR DETAILS AND VERIFY PLACEMENT WITH ENGINEER.
D. CONCRETE EXPOSED TO WEATHER: ALL CONCRETE MIXES EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED WITH AN AIR CONTENT OF 5% ±1%.
E. CONCRETE CAST AGAINST EXISTING: WHERE CONCRETE IS CAST AGAINST EXISTING OR PREVIOUSLY CURED CONCRETE, ROUGHEN CONTACT SURFACES TO 1/4" AMPLITUDE AND CLEAN SURFACE OF LAITANCE, FOREIGN MATTER, PAINT AND LOOSE PARTICLES.
F. FLY ASH: PORTLAND CEMENT CONTENT MAY BE REPLACED WITH UP TO 25% FLY ASH CONFORMING TO ASTM C618 (INCLUDING TABLE 2A) TYPE F OR TYPE C, PROVIDED THAT MIX STRENGTH IS SUBSTANTIATED BY TEST DATA.
G. SLAG: PORTLAND CEMENT CONTENT MAY BE REPLACED WITH UP TO 25% SLAG CEMENT CONFORMING TO ASTM C989, PROVIDED THAT MIX STRENGTH IS SUBSTANTIATED BY TEST DATA.
H. ADMIXTURES: WATER REDUCING ADMIXTURES CONFORMING TO ASTM C494 MAY BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SHALL BE INCORPORATED IN THE CONCRETE MIX DESIGN SUBMITTAL.
I. SLUMP: SLUMP REQUIRED FOR PROPER PLACEMENT SHALL BE DETERMINED BY THE CONTRACTOR AND SUPPLIER BASED UPON DELIVERY TIME AND METHOD OF PLACEMENT AND INCLUDED IN THE MIX DESIGN SUBMITTAL INCLUDING INFLUENCE OF ADDITIVES.
J. WATER: WATER SHALL BE CLEAN AND POTABLE. NO WATER SHALL BE ADDED IN FIELD UNLESS SPECIFICALLY APPROVED IN WRITING BY THE CONCRETE SUPPLIER AS A PROPORTION ALLOTTED WITHIN APPROVED CONCRETE MIX DESIGN.
K. SUBMITTALS: CONTRACTOR SHALL SUBMIT A COPY OF EACH CONCRETE MIX DESIGN AND (30) 28-DAY BREAK TEST RECORDS TO ENGINEER FOR REVIEW AND COMMENT. ALLOW SUFFICIENT TIME FOR REVIEW AND APPROVAL BEFORE DELIVERY.
L. WEATHER: CONTRACTOR SHALL CAREFULLY MONITOR THE WEATHER IN THE DAYS PRECEDING AND FOLLOWING SCHEDULED CONCRETE POURS. TEMPERATURES BELOW 40°F OR ABOVE 90°F CAN ADVERSELY AFFECT THE QUALITY OF CONCRETE. SIMILARLY, OTHER ENVIRONMENTAL FACTORS SUCH AS LOW HUMIDITY AND HIGH WIND SPEEDS CAN ALSO AFFECT THE QUALITY OF CONCRETE. CONTRACTOR IS TO BE FAMILIAR WITH AND READY TO IMPLEMENT PROCEDURES OUTLINED IN ACI 305 / ACI 306 IN THE EVENT OF WEATHER CONDITIONS.
M. PIPE & CONDUIT ARE NOT PERMITTED TO BE INSTALLED IN SLABS OR FOOTING TRENCHES WITHOUT PRIOR APPROVAL OF THE ARCHITECT OR ENGINEER.
N. CONCRETE MIX DESIGNS:

LOCATION	COARSE AGGREGATE SIZE	MAXIMUM WATER/CEMENT RATIO	MINIMUM COMPRESSIVE STRENGTH (F'_c)	ADD'L NOTES
FOUNDATIONS	1½"	.46	3,000	
SLABS ON GRADE	¾"	.44	3,500	1,2

NOTES:
1. PER ASTM F710, WHEN A FLOOR COVERING IS TO BE INSTALLED OVER A SLAB, A MINIMUM 10 MIL VAPOR RETARDER WITH A PERMEANCE OF 0.1 SHALL BE INSTALLED UNDER SLAB. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. EXCLUDES GROUND OR POLISHED SLAB FINISHES
3. SPECIAL INSPECTION NOT REQUIRED

REINFORCING STEEL:

A. ALL REINFORCING STEEL SHALL BE BILLET STEEL DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60, EXCEPT USE ASTM A706, GRADE 60 BARS WHERE WELDING IS REQUIRED. (NO. 3 BARS MAY BE GRADE 40). SUBMIT MILL CERTIFICATES FOR ALL BARS REQUIRING WELDING.
B. FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CRSI MSP-1-16 "MANUAL OF STANDARD PRACTICE" AND CHAPTER 25 OF ACI 318 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
C. ALL CONCRETE SLAB REINFORCING STEEL SHALL BE SUPPORTED AT THE REQUIRED HEIGHTS BY APPROVED BOLSTERS PRIOR TO POURING SLAB CONCRETE.
D. REINFORCING STEEL LAP SPLICES NOT OTHERWISE INDICATED SHALL BE ACI STANDARD CLASS B SPLICES STAGGERED BETWEEN ADJACENT BARS ONE LAP LENGTH MINIMUM.

BAR SIZE "D"	DEVELOPMENT FACTOR	DEVELOPMENT LENGTH	CLASS B LAP SPLICE LENGTH	
			BOTTOM BAR	TOP BAR
#3	44 x D	16.4"	21.4"	27.8"
#4	44 x D	21.9"	28.5"	37"
#5	44 x D	27.4"	35.6"	46.3"
#6	44 x D	32.9"	42.7"	55.5"
#7	55 x D	47.9"	62.3"	81"
#8	55 x D	54.8"	71.2"	92.6"

E. PROVIDE CORNER BARS SAME SIZE AND SPACING AS HORIZONTAL BARS AND PROJECT 48 DIAMETERS EACH WAY OR 2'-0" X 2'-0" MINIMUM UNLESS DETAILED OTHERWISE.
F. PROVIDE (2)-#5 BARS AROUND ALL OPENINGS AND RECESSES. EXTEND THESE BARS 24 INCHES BEYOND THE CORNER OF THE OPENINGS.
G. CONTRACTOR SHALL PROVIDE AND CAST IN ALL NECESSARY INSERTS.
H. ALL WELDED WIRE MESH SHALL BE FURNISHED IN FLAT SHEETS AND CONFORM TO ASTM A-185.

REINFORCING PROTECTION:

A. CONCRETE DEPOSITED AGAINST EARTH: 3 INCHES.
B. CONCRETE FORMED SURFACES EXPOSED TO GROUND AND WEATHER:
#5 AND SMALLER BAR - 1½ INCHES
#6 AND LARGER BAR - 2 INCHES
C. CONCRETE SURFACES NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:
#11 AND SMALLER BAR - ¾ INCHES
D. SLABS = ¾ INCHES

STRUCTURAL WOOD:

A. ALL STRUCTURAL WOOD MEMBERS SHALL BE DOUGLAS FIR-LARCH NO.2 OR BETTER GRADE AS NOTED IN NATIONAL DESIGN SPECIFICATIONS FOR STRESS GRADE LUMBER AND ITS FASTENINGS, UNLESS NOTED OTHERWISE. ALL POSTS SHALL BE DOUGLAS FIR #1 OR BETTER.
B. ALL STUDS TO BE DOUGLAS FIR #2 OR BETTER AS NOTED IN NATIONAL DESIGN SPECIFICATIONS FOR STRESS GRADE LUMBER.
C. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL BOLTS, AND PLATES AS REQUIRED TO COMPLETE THE JOB.
D. WASHERS SHALL BE USED UNDER ALL BOLT HEADS AND NUTS BEARING ON WOOD.
E. ALL WOOD MEMBERS IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESERVATIVE TREATED.
F. UNLESS NOTED OTHERWISE HEADERS ARE TO BE 4X8 DF/L #2 OR BETTER.
G. ALL NAILING NOT SHOWN SHALL BE AS CALLED FOR IN OSSC TABLE 2304.10.1 FASTENING SCHEDULE.
H. ALL NAILING INTO TREATED LUMBER SHALL BE GALVANIZED.
I. LAMINATING 2X BENDING MEMBERS (BEAMS):
-MINIMUM OF 3 ROWS 10D (0.148"X3") NAILS @ 12" O.C.
-IF USING 16D COMMON NAILS, THE NUMBER OF NAILING ROWS MAY BE DECREASED BY ONE.
-SIDE LOADED BEAMS SHALL BE CONNECTED WITH SIMPSON SDS SCREWS IN TWO ROWS WITH SPACING 16" O.C.
J. LAMINATING 2X COMPRESSION MEMBERS (COLUMNS):
-(2) 2X6 LAMINATIONS: (2) ROWS OF 10D COMMON NAILS @ 6" O.C.
-(3) 2X6 LAMINATIONS: (2) ROWS OF 30D COMMON NAILS @ 8" O.C.

PLYWOOD:

A. WALL SHEATHING:
15/32" PLYWOOD WALL SHEATHING APA RATED 24/0 EXPOSURE 1. LAY HORIZONTAL AND BLOCK ALL EDGES. ATTACH WITH 8D GALVANIZED COMMON NAILS 6" O.C. EDGES & 12" O.C. FIELD, UNLESS NOTED OTHERWISE IN SHEARWALL SCHEDULE.
B. ROOF SHEATHING:
15/32"-5 PLY PLYWOOD ROOF SHEATHING APA RATED 32/16 EXTERIOR GLUE CD-X W/ 8D GALVANIZED COMMON NAILS @ 6" O.C. EDGES AND 12" O.C. FIELD, UNLESS NOTED OTHERWISE ON PLANS. LAY PERPENDICULAR TO SUPPORTS AND STAGGER JOINTS. (BLOCK AS REQUIRED ON PLAN)

GLU-LAM BEAMS:

A. BEAMS TO BE BUILT IN ACCORDANCE WITH "STANDARD SPECIFICATIONS FOR STRUCTURAL GLUED LAMINATED MEMBERS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION".
B. GLUE-LAMINATED MEMBERS SHALL BE LAMINATED FROM COAST REGION DOUGLAS FIR LUMBER AND SHALL BE 24F-V4 STRUCTURAL GRADE FOR SINGLE SPANS, AND 24F-V8 STRUCTURAL GRADE FOR CONTINUOUS AND CANTILEVERED SPANS.
C. STRESSES:
F_b = 2,400 psi E= $1.8e^6$ F_v = 265 psi $F_{c\perp}$ = 650 psi

Digitally signed by Cameron Swearengin
Reason: I am approving this document
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Date: 2025.10.01 14:22:12-07'00'

FACET ARCHITECTS
Formerly Carlson Veit Junge Architects
3095 River Road N Salem, OR 97303 / 503.390.0281

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 63202
DIGITALLY SIGNED
OREGON
December 19, 2013
CAMERON B. SWEARENGIN
EXPIRES: JUNE 30, 2026

project: AMITY SCHOOL DISTRICT DISTRICT BUILDING
503 OAK AVENUE
AMITY, OR 97101

consultants: MSC ENGINEERS SINCE 1925
CONSULTING STRUCTURAL ENGINEERS
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Salem, OR 97301
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revisions:

date: 10-01-25
project: 250525
dwg file:
drawn by: JCP
checked by: CBS

GENERAL NOTES

sheet: S-001
of:

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Attachment A

GENERAL NOTES

WOOD FRAMED TRUSSES:

A. TRUSS DESIGN DRAWINGS AND TRUSS PLACEMENT DIAGRAM SHALL BE STAMPED BY AN ENGINEER LICENSED IN THE STATE OF OREGON RETAINED BY THE TRUSS MANUFACTURER.
B. ROOF TRUSSES TO CARRY ALL DEAD LOADS AND LOADS NOTED AS FOLLOWS. LOADS TO BE COMBINED PER OSSC CHAPTER 16 & ASCE 7 CHAPTER 2.
   - LIVE LOADS & ROOF LIVE LOADS PER OSSC CHAPTER 16, TABLE 1607.1 AND ASCE 7 CHAPTER 4, TABLE 4.3-1.
   - SNOW LOADS PER OSSC CHAPTER 16, SECTION 1608 AND ASCE 7 CHAPTER 7
   - WIND LOADS PER OSSC CHAPTER 16, SECTION 1609 AND ASCE 7 CHAPTER 26 AND CHAPTER 30.
C. ROOF TRUSSES TO BE DESIGNED TO RESIST ALL AXIAL LOADS AS SPECIFIED ON THE CONSTRUCTION DOCUMENTS.
D. FLOOR TRUSSES TO CARRY ALL DEAD LOADS AND LOADS NOTED AS FOLLOWS. LOADS TO BE COMBINED PER OSSC CHAPTER 16 & ASCE 7 CHAPTER 2.
   - LIVE LOADS PER OSSC CHAPTER 16, TABLE 1607.1 AND ASCE 7 CHAPTER 4, TABLE 4.3-1.
E. TRUSS MANUFACTURER'S DESIGN SHALL INCLUDE ALL TEMPORARY REQUIRED BRACING AND SHORING FOR THE ERECTION AND INSTALLATION OF THE ROOF TRUSSES.
F. TRUSS MANUFACTURER'S DESIGN SHALL INCLUDE ALL BLOCKING, BRIDGING, FASTENING, AND ATTACHING DEVICES TO CARRY THE SPECIFIED LOADS INCLUDING PLY TO PLY TRUSS CONNECTIONS.
G. ERECTION AND INSTALLATION OF THE ROOF TRUSSES BY THE CONTRACTOR SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND DESIGN SET FORTH BY THE MANUFACTURER.
H. THE TRUSS MANUFACTURER SHALL SUPPLY ALL TRUSSES, ASSOCIATED LOAD TRANSFER BLOCKS, HANGERS, BRACING, BRIDGING, BLOCKING, AND BEVELED PLATES AS REQUIRED TO COMPLETE THE ROOF TRUSS FRAMING.
I. EACH TRUSS SHALL BE ATTACHED TO THE DOUBLE TOP PLATE OF WALL WITH SIMPSON H1 CLIPS U.O.N ON CONSTRUCTION DOCUMENTS.
J. EACH GIRDER TRUSS SHALL BE ATTACHED TO A MINIMUM DOUBLE STUD IN WALL BELOW WITH SIMPSON LGT GIRDER TIEDOWN U.O.N ON CONSTRUCTION DOCUMENTS. EDGE NAIL WALL SHEATHING TO DOUBLE STUD.
K. MAKE ALL BOTTOM CHORD CONNECTIONS AFTER DEAD LOAD HAS BEEN APPLIED. PROVIDE DEFLECTION CAPABILITY UNLESS TRUSS DESIGNED FOR SUPPORT BY INTERIOR WALLS.
L. TRUSS MANUFACTURER SHALL SUBMIT TRUSS DESIGN DRAWINGS WITH ALL REQUIREMENTS AS SPECIFIED IN SECTION 2303.4.1.1 OF THE I.B.C AS FOLLOWS:
   1. SLOPE OR DEPTH, SPAN AND SPACING PER CONSTRUCTION DOCUMENTS.
   2. LOCATION OF ALL JOINTS AND SUPPORT LOCATIONS.
   3. NUMBER OF PLIES IF GREATER THAN ONE.
   4. REQUIRED BEARING WIDTHS ASSUMING AN ALLOWABLE COMPRESSION PERPENDICULAR TO GRAIN OF 625 psi (DF #2).
   5. DESIGN LOADS FOR **ROOF** AS APPLICABLE INCLUDING:
      I. TOP CHORD LIVE LOAD OF 20 psf (MIN.) OR APPROPRIATE SNOW LOAD.
         - Cd = 1.25 FOR ROOF LIVE LOAD
         - Cd = 1.15 FOR ROOF SNOW LOAD
      II. TOP CHORD DEAD LOAD OF 7 psf (MIN.).
      III. SOLAR DEAD LOAD 5 psf (MIN.) APPLIED @ TOP CHORD WHERE APPLICABLE
      IV. BOTTOM CHORD LIVE LOAD OF 10 psf (MIN). NEED NOT BE APPLIED SIMULTANEOUSLY WITH ROOF SNOW OR LIVE LOAD.
      V. BOTTOM CHORD DEAD LOAD OF 10 psf (MIN).
      VI. UPLIFT LOAD OF 8 psf ULTIMATE (MIN).
      VII. ADDITIONAL LOADS AND LOCATIONS, SUCH AS CONCENTRATED LOADS AND THEIR POINTS OF APPLICATION
      VIII. ENVIRONMENTAL DESIGN CRITERIA AND LOADS (WIND, RAIN, SNOW, SEISMIC, ETC).
   6. DESIGN LOADS FOR **FLOOR** AS APPLICABLE INCLUDING:
      I. TOP CHORD LIVE LOAD PER DESIGN LOADS.
         - Cd = 1.0 FOR LIVE LOAD
      II. TOP CHORD DEAD LOAD OF 15 psf (MIN).
      III. BOTTOM CHORD LIVE LOAD OF 10 psf (MIN). NEED NOT BE APPLIED SIMULTANEOUSLY WITH LIVE LOAD.
      IV. BOTTOM CHORD DEAD LOAD OF 10 psf (MIN).
      V. ADDITIONAL LOADS AND LOCATIONS, SUCH AS CONCENTRATED LOADS AND THEIR POINTS OF APPLICATION
      VI. ENVIRONMENTAL DESIGN CRITERIA AND LOADS (WIND, RAIN, SNOW, SEISMIC, ETC).
   7. OTHER LATERAL LOADS, INCLUDING DRAG STRUT LOADS IF SPECIFIED ON THE CONSTRUCTION DOCUMENTS.
   8. ADJUSTMENTS TO WOOD MEMBER AND METAL CONNECTOR PLATE DESIGN VALUE FOR CONDITIONS OF USE.
   9. MAXIMUM REACTION FORCE AND DIRECTION, INCLUDING MAXIMUM UPLIFT REACTION FORCES WHERE APPLICABLE.
   10. METAL-CONNECTOR-PLATE TYPE, SIZE AND THICKNESS OR GAGE, AND THE DIMENSIONED LOCATION OF EACH METAL CONNECTOR PLATE EXCEPT WHERE SYMMETRICALLY LOCATED RELATIVE TO THE JOINT INTERFACE.
   11. SIZE, SPECIES AND GRADE FOR EACH MEMBER TO BE SPECIFIED BY THE TRUSS MANUFACTURER.
   12. TRUSS-TO-TRUSS CONNECTIONS AND TRUSS FIELD ASSEMBLY REQUIREMENTS.
   13. CALCULATED SPAN-TO-DEFLECTION RATIO AND MAXIMUM VERTICAL AND HORIZONTAL DEFLECTION FOR LIVE AND TOTAL LOADS WITH THE MAXIMUM LIVE LOAD DEFLECTION LIMITED TO L/240 OF THE SPAN. LONG TERM CREEP OF 1.5 MUST BE APPLIED TO DEAD LOAD DEFLECTION.
   14. MAXIMUM AXIAL TENSILE AND COMPRESSION FORCES IN THE TRUSS MEMBERS.
   15. REQUIRED PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT LOCATION AND THE METHOD AND DETAILS OF RESTRAINT/BRACING TO BE USED IN ACCORDANCE WITH SECTION 2303.4.1.2 TO BE DESIGNED AND SET FORTH IN THE TRUSS DESIGN DRAWINGS BY THE TRUSS DESIGN PROFESSIONAL.

SHEAR WALL SCHEDULE NOTES:

A. CONTRACTOR SHALL INSTALL SHEAR TRANSFER CONNECTIONS FROM DIAPHRAGM TO SHEARWALLS IN ACCORDANCE TO DETAILS ATTACHED HEREIN.
B. THE ALLOWABLE SHEAR VALUES ARE APPLICABLE TO STUDS OF SPECIES GROUP II (DOUGLAS-FIR, SOUTHERN PINE).
C. USE SIMPSON A35 ANGLE TO ATTACH BLOCKING TO TOP PLATE AT FLOOR LINE. AT ROOF LINE USE SIMPSON H-1 CLIPS @ EA. TRUSS (U.N.O.).
D. BLOCK ALL PANEL EDGES U.N.O.
E. ALL NAILS REFERENCED ARE COMMON NAILS (I.E. 6D=0.113", 8D=0.131", 10D=0.148", 12D=0.148" AND 16D=0.162"), UNLESS REFERENCED OTHERWISE. VALUES OF OTHER STANDARD CONSTRUCTION FASTENERS WILL REQUIRE SPACING ADJUSTMENTS AND MUST BE APPROVED BY THE ENGINEER-OF-RECORD.
F. DO NOT PENETRATE SURFACE PLY OF SHEATHING WITH HEAD OF FASTENER.
G. USE HOT DIPPED GALVANIZED NAILS AT ALL EXTERIOR APPLICATIONS.
H. A.B. - ANCHOR BOLTS
I. WHERE PANELS ARE APPLIED ON BOTH SIDES OF THE WALL AND NAIL SPACING IS LESS THAN 6" O.C. ON EITHER SIDE, PANEL EDGES SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS OR FRAMING SHALL BE 3" NOMINAL OR THICKER AND NAILS ON EITHER SIDE SHALL BE STAGGERED.
J. FRAMING AT ADJOINING PANEL EDGES SHALL BE 3" NOMINAL OR WIDER AND NAILS SHALL BE STAGGERED WHERE 8D NAILS ARE SPACED 2" OR LESS O.C., OR WHERE 10D NAILS HAVING PENETRATION INTO FRAMING OF MORE THAN 1½" ARE SPACED 3" OR LESS O.C.
K. MINIMUM NAIL PENETRATIONS: 6D=1¼", 8D=1½", AND 10D=1⅝".
L. NAILS FOR GYPSUM WALLBOARD CAN BE COOLER OR WALLBOARD NAILS.
M. C-D, C-C SHEATHING, PLYWOOD PANEL SIDING, AND OTHER GRADES COVERED IN APA PLYWOOD DESIGN SPECIFICATION.
N. SHEATHING FACE GRAIN CAN BE APPLIED PERPENDICULAR OR PARALLEL TO WALL STUDS, PROVIDED STUDS ARE SPACED A MAXIMUM OF 16" O.C.
O. NOT ALL WALL TYPES SHOWN MAY BE USED ON PROJECT.
P. 3"x3"x¼" PLATE WASHER REQUIRED @ EA. A.B. PLACE WITHIN ½" OF STRUCTURAL PANEL SHEATHING

SHEAR WALL SCHEDULE[1,2,3,4,6,7,8,9]
(NOT ALL WALL TYPES SHOWN MAY BE USED ON PROJECT)

WALL TYPE	STRUCTURAL PANEL SHEATHING	EDGE NAILING	FIELD NAILING	REMARKS	A35 CLIP DOUBLE TOP PLATE CONN.[5]	SILL PLATE CONN. (A.B.) 5/8"DIA.10" LONG	SILL PLATE CONN. (A.B.) 3/4"DIA.10" LONG	SOLE PLATE CONNECTION	SHEAR VALUE (plf) SEISMIC	SHEAR VALUE (plf) WIND
A	7/16" OSB or 15/32" PLYWOOD	0.131"ø x 2.5" NAILS @ 6" O.C.	0.131"ø x 2.5" NAILS @ 12" O.C.		24" O.C.	2'-8" O.C.[10]	4'-0" O.C.[10]	16d NAILS @ 6" O.C.	260	325
B	7/16" OSB or 15/32" PLYWOOD	0.131"ø x 2.5" NAILS @ 4" O.C.	0.131"ø x 2.5" NAILS @ 12" O.C.		16" O.C.	1'-4" O.C.[10]	2'-8" O.C.[10]	16d NAILS @ 4½" O.C.	380	488
C	7/16" OSB or 15/32" PLYWOOD[11]	0.131"ø x 2.5" NAILS @ 3" O.C.	0.131"ø x 2.5" NAILS @ 12" O.C.		12" O.C.	1'-4" O.C.[10]	2'-0" O.C.[10]	16d NAILS @ 3½" O.C.	490	650
D	15/32" PLYWOOD[12]	0.148"ø x 3" NAILS @ 3" O.C.	0.148"ø x 3" NAILS @ 12" O.C.		9" O.C.	N/A	1'-4" O.C.[10]	(2) ROWS 16d NAILS @ 6" O.C.	600	840
E	15/32" PLYWOOD[12]	0.148"ø x 3" NAILS @ 2" O.C.	0.148"ø x 3" NAILS @ 12" O.C.		7" O.C.	N/A	1'-4" O.C.[10]	(2) ROWS 16d NAILS @ 5" O.C.	770	1032
F	½" G.W.B. MIN.	5d COOLER NAILS @ 4" O.C.	5d COOLER NAILS @ 12" O.C.	UNBLOCKED	24" O.C.	4'-0" O.C.	4'-0" O.C.	16d NAILS @ 6" O.C.	125	125
G	½" G.W.B. MIN.	NO. 6 x1½" SCREWS @ 4" O.C.	NO. 6 x 1½" SCREWS @ 12" O.C.	BLOCKED	24" O.C.	4'-0" O.C.	4'-0" O.C.	16d NAILS @ 6" O.C.	160	160

NOTES:
1. BLOCK ALL EDGES OF SHEATHING. U.O.N.
2. DO NOT BREAK SHEATHING SKIN BY OVER DRIVING NAILS.
3. PRE-DRILL AS REQUIRED TO AVOID SPLITTING SILLS, ETC.
4. NAILS SHOULD BE LOCATED ⅜" CLEAR OF PANEL EDGES.
5. USE SIMPSON A35 CLIPS TO ATTACH BLOCKING OR GABLE TO TOP PLATE AT FLOOR LINE. AT ROOF LINE USE SIMPSON H1 CLIPS AT EACH TRUSS (U.O.N.)
6. VALUES OF OTHER STANDARD CONSTRUCTION FASTENERS WILL REQUIRE SPACING ADJUSTMENTS AND MUST BE APPROVED BY THE ENGINEER-OF-RECORD.
7. USE HOT DIPPED GALVANIZED NAILS AT ALL EXTERIOR APPLICATIONS.
8. C-D, C-C SHEATHING, PLYWOOD PANEL SIDING, AND OTHER GRADES COVERED IN APA PLYWOOD DESIGN SPECIFICATION.
9. SHEATHING FACE GRAIN CAN BE APPLIED PERPENDICULAR OR PARALLEL TO WALL STUDS, PROVIDED STUDS ARE SPACED A MAXIMUM OF 16" OC.
10. 3"x3"x¼" WASHER REQUIRED AT EACH A.B. PLACE WITHIN ½" OF STRUCTURAL PANEL SHEATHING.
11. ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM ABUTTING PANELS SHALL NOT BE LESS THAN A 3" NOMINAL OR THICKER MEMBER OR (2) 2" MEMBERS NAILED WITH 10d NAILS 4" OC STAGGERED. PANEL JOINT NAILING SHALL BE STAGGERED.
12. FRAMING AT ADJOINING PANEL EDGES SHALL BE 3" NOMINAL MEMBER OR WIDER AND NAILS SHALL BE STAGGERED WHERE NAILS ARE SPACED 2" OR LESS OC, OR WHERE 10d NAILS HAVE PENETRATION INTO FRAMING OF MORE THAN 1½" ARE SPACED 3" OR LESS OC.

HOLDOWN SCHEDULE[1,2,3,4,5]
(NOT ALL HOLDOWN TYPES SHOWN MAY BE USED ON PROJECT)

MARK	HOLDOWN	ANCHOR[10] BOLT	ANCHOR SIZE	EMBED. LENGTH	MINIMUM MEMBER	ANCHORAGE TO WOOD	REMARKS	ALLOWABLE LOAD (WIND)	ALLOWABLE LOAD (SEISMIC)
HD	HDU2	SSTB16	⅝"ø	12⅝"	(2) 2x6[6]	(6) ¼"x2½"[7]		3,075#	3,075#
HD	HDU4	SSTB20	⅝"Ø	16½"	(2) 2x6[6]	(10) ¼"x2½"[7]		4,565#	4,565#
HD	HDU5	SSTB24	⅝"Ø	20½"	(2) 2x6[6]	(14) ¼"x2½"[7]		5,645#	5,645#
HD	HDU8	SSTB28	⅞"Ø	24½"	4x6	(20) ¼"x2½"[7]		6,970#	6,970#
HD	HDQ8	SSTB28	⅞"Ø	24½"	4x6[6]	(20) ¼"x3"[7]		7,630#	7,630#
HD	HDQ8	SSTB28	⅞"Ø	24½"	6x6	(20) ¼"x3"[7]		9,230#	9,230#
HD	HHDQ11	SB1x30	1"Ø	24"	6x6	(24) ¼"x2½"[7]		11,810#	11,810#
HD	HDU2	N/A	⅝"Ø[9]	N/A	(2) 2x6[6]	(6) ¼"x2½"[7]	NOTE 9	3,075#	3,075#
HD	MSTC28	N/A	N/A	N/A	(2) 2x6[6]	(12) 10d COMMON		1,155#	1,155#
HD	MSTC40	N/A	N/A	N/A	(2) 2x6[6]	(28) 10d COMMON		2,695#	2,695#
HD	MSTC52	N/A	N/A	N/A	(2) 2x6[6]	(44) 10d COMMON		4,235#	4,235#

HD DENOTES LOCATION OF HOLDOWN AT BOTTOM OF WALL

NOTES:
1. HOLDOWNS BY SIMPSON STRONG-TIE COMPANY, INC. SEE SIMPSON CATALOG FOR PROPER INSTALLATION.
2. HARDMOUNT ALL HOLDOWN ANCHORS PRIOR TO CONCRETE POUR.
3. EDGE NAIL SHEATHING TO ALL POSTS OR BOUNDARY MEMBERS AT HOLDOWNS.
4. LOCATE HD WITHIN 6" OF END OF SHEAR PANEL.
5. INSTALL HD MINIMUM OF 5" CLEAR FROM CORNER.
6. LAMINATE STUDS WITH 16d NAILS AT 12" O.C. STAGGERED. CLINCH TIPS OF NAILS.
7. USE SIMPSON SDS ¼"x8 WOOD SCREWS.
8. ASSUMES A DF SILL OR SOLE PLATE. 6x6 BOUNDARY MEMBER REQUIRED WITH HF SOLE PLATE.
9. ⅝"ø THREADED ROD THROUGH FLOOR TO HDU2 AT TOP OF LOWER WALL
10. LOCATE A.B. 3½" MIN. FROM SLAB EDGE

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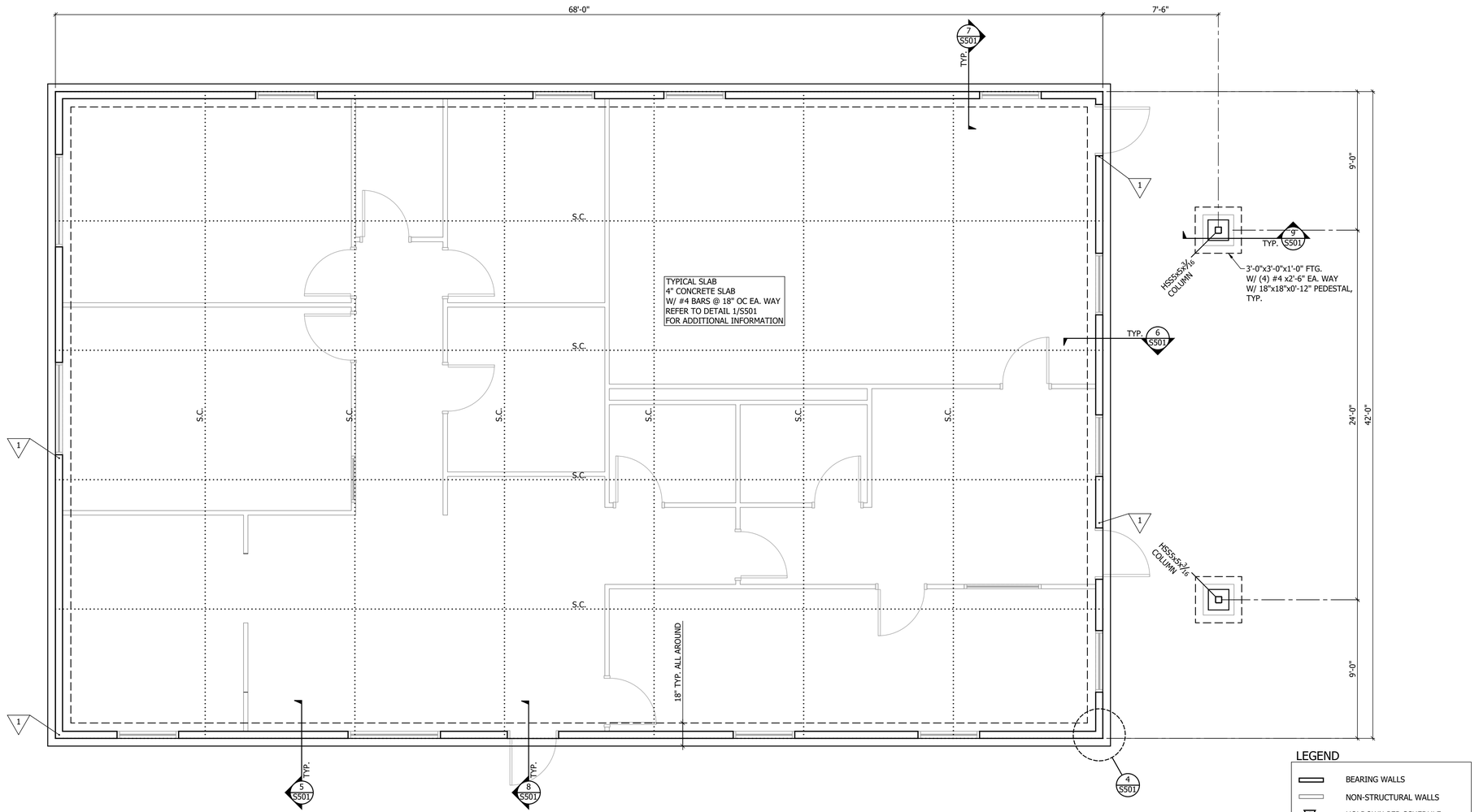
checked by: CBS

GENERAL NOTES

sheet:
S-002
of:

Attachment A



SHEET NOTES:

- SAWCUTS AND CONSTRUCTION JOINTS SHOWN ARE SUGGESTED. CONTRACTOR MAY VARY FOR EASE OF CONSTRUCTION. REFER TO DETAILS 2 & 3 ON S-501 FOR RECOMMENDED REQUIREMENTS.

FOUNDATION PLAN
1/4" = 1'-0"

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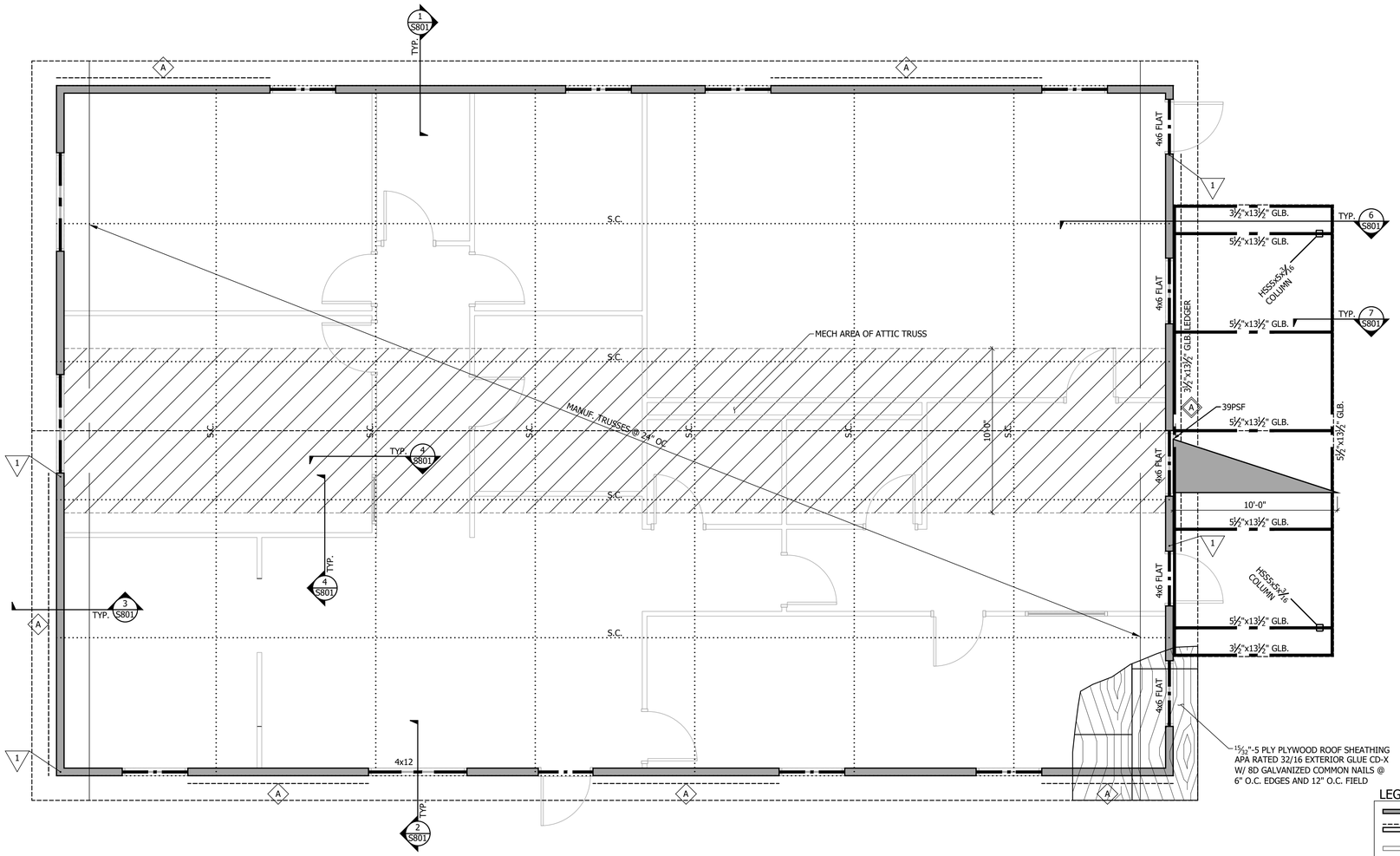
date: 10-01-25
project: 250525
dwg file:
drawn by: JCP
checked by: CBS

FOUNDATION PLAN

sheet:
S-101
of:

Attachment A



ROOF FRAMING PLAN
1/4" = 1'-0"

LEGEND

- BEARING WALLS
- SHEARWALL
- NON-STRUCTURAL WALLS PER ARCH.
- HOLDOWN PER SCHEDULE AT BASE OF WALL SHOWN
- SHEARWALL TYPE PER SCHEDULE
- SHEATH ENTIRE WALL (ABOVE & BELOW WINDOWS) ACCORDING TO SHEARWALL SCHEDULE
- SNOW DRIFT + P_f
- G.T. GIRDER TRUSS

TRUSS MANUFACTURER TO REFER TO STRUCTURAL PLANS FOR LAYOUT AND BEARING LOCATIONS.

TYPICAL HEADER TO BE 4x8 DF#2 U.O.N.

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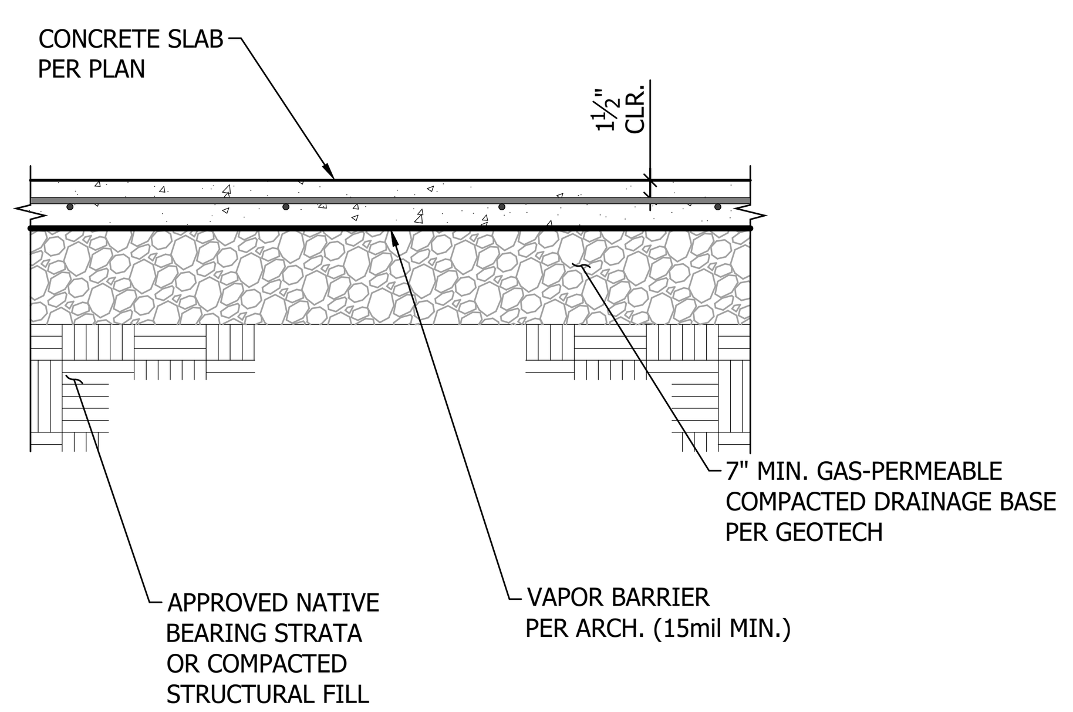
project: 250525
dwg file:
drawn by: JCP
checked by: CBS

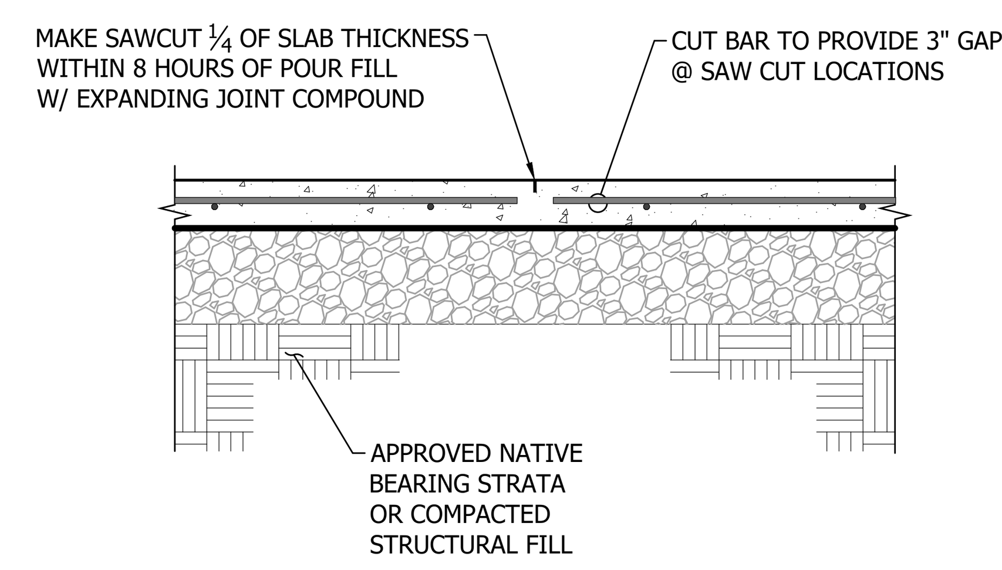
ROOF FRAMING PLAN

sheet: S-201
of:

NOTE: FIBERMESH MAY BE SUBSTITUTED FOR TEMPERATURE REINF. AT CONTRACTORS DISCRETION. CONTRACTOR TO SUBMIT TYPE AND QUANTITY OF FIBERMESH TO EOR FOR REVIEW AND APPROVAL.

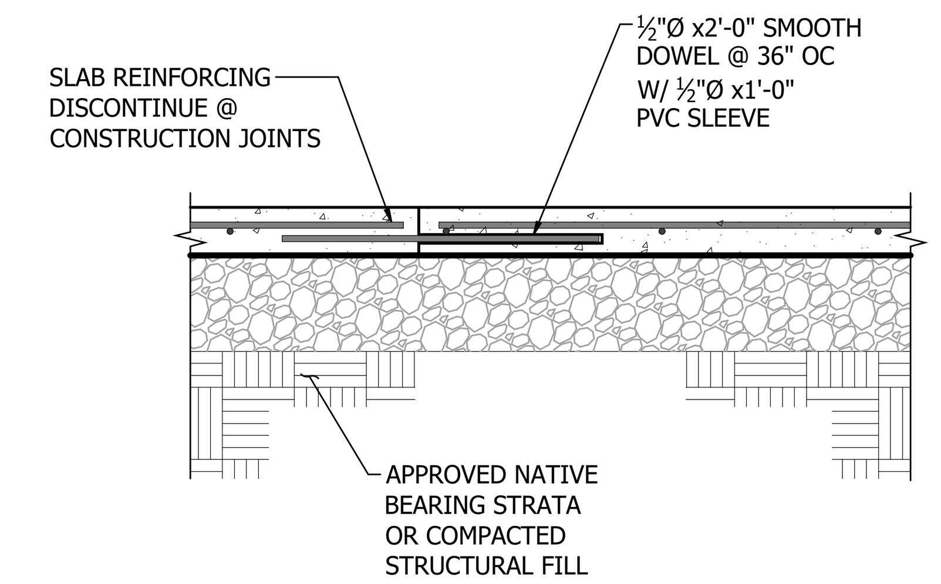


TYPICAL SLAB CONSTRUCTION — 1/S501
3/4" = 1'-0"



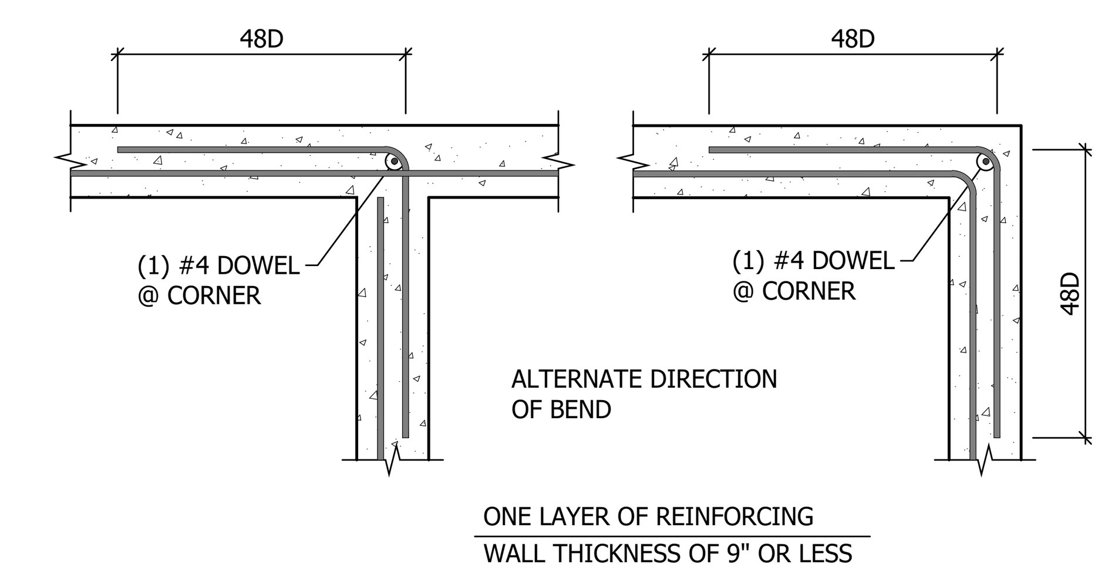
NOTE: REFER TO DETAIL 1/S501 FOR ADDITIONAL INFORMATION

TYPICAL SAWCUT — 2/S501
3/4" = 1'-0"



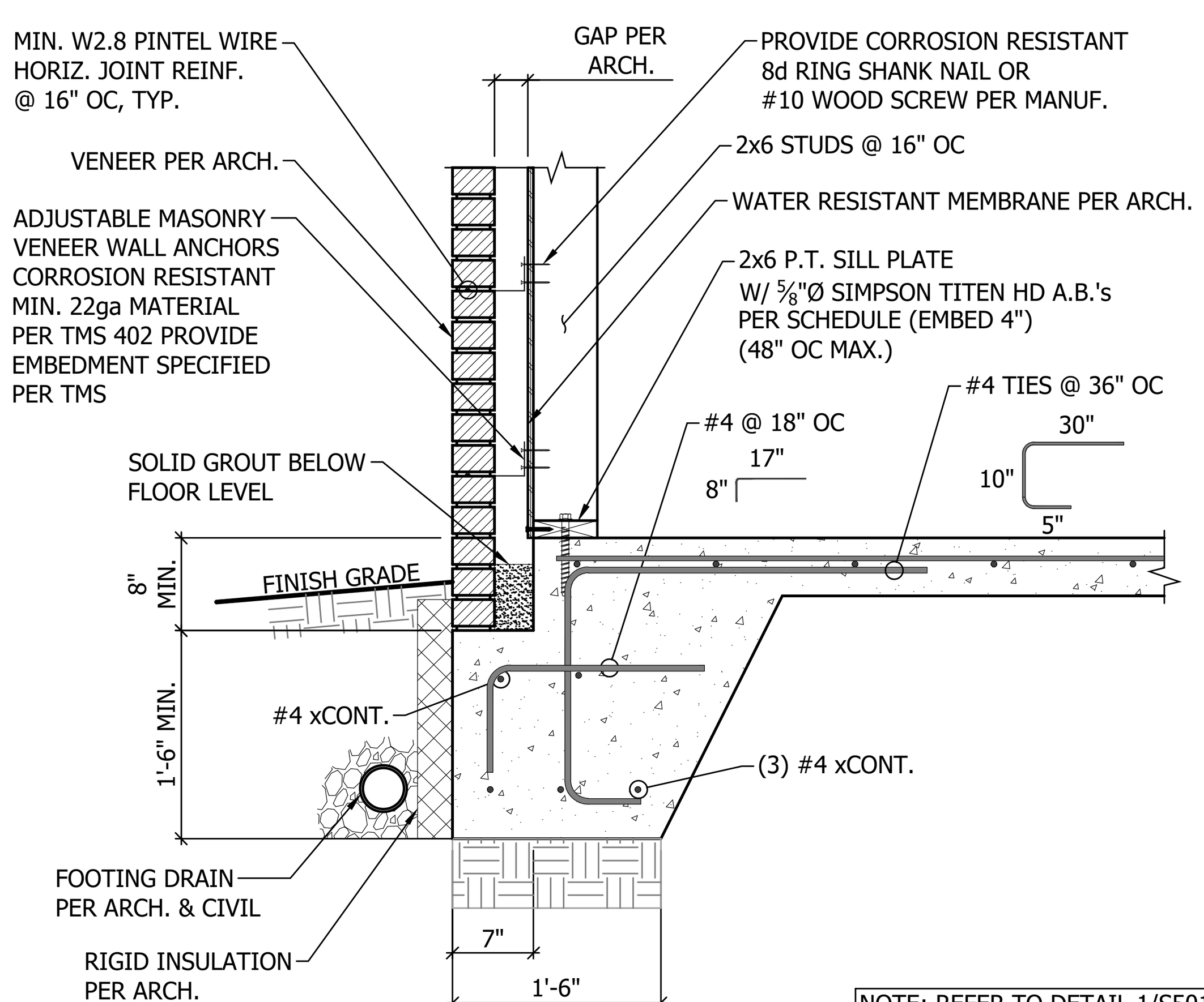
NOTE: REFER TO DETAIL 1/S501 FOR ADDITIONAL INFORMATION

TYPICAL CONSTRUCTION JOINT — 3/S501
3/4" = 1'-0"



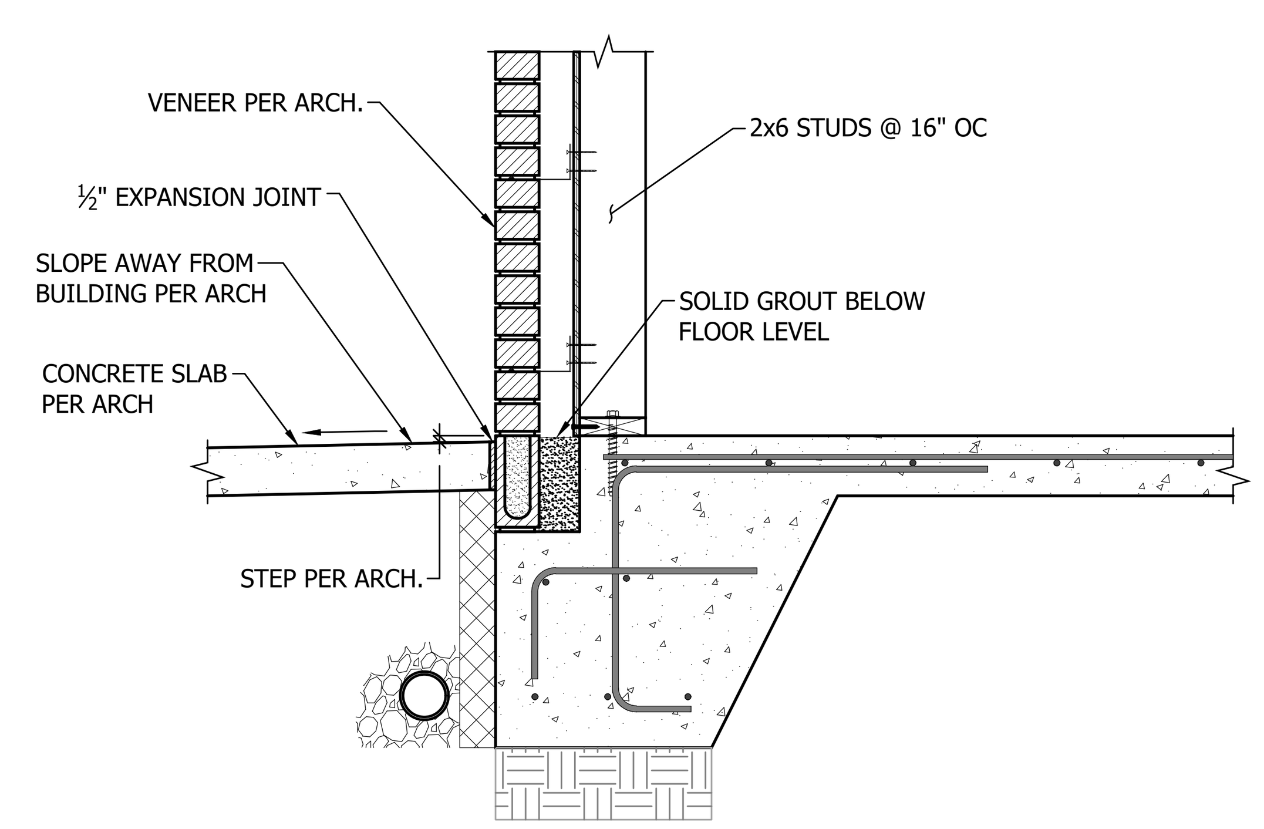
NOTE:
CORNER BARS TO MATCH THE SIZE OF HORIZONTAL REINFORCEMENT
(D) = DIAMETER OF BAR

TYPICAL CONCRETE CORNER REBAR DETAIL — 4/S501
3/4" = 1'-0"



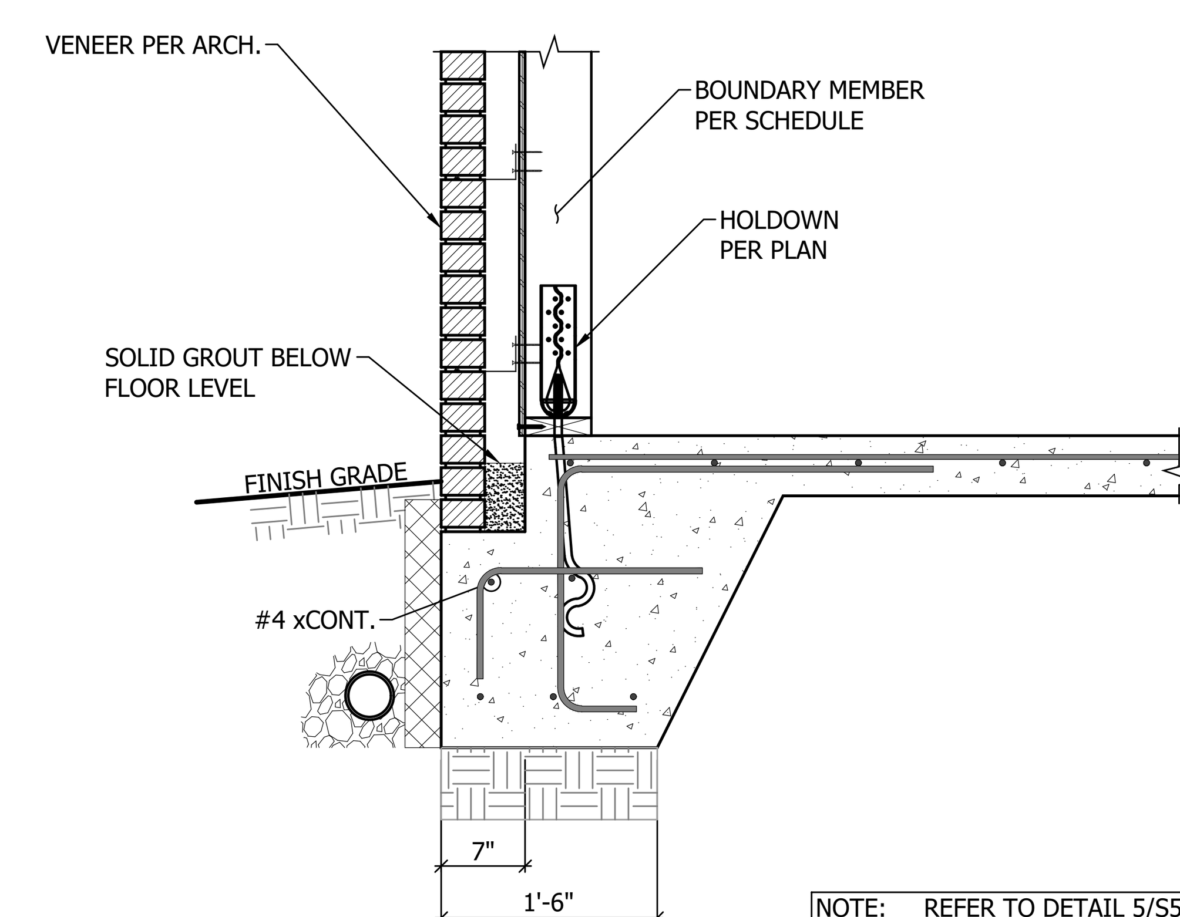
NOTE: REFER TO DETAIL 1/S501 FOR ADDITIONAL INFORMATION

PERIMETER FOOTING @ BRICK VENEER — 5/S5.1
3/4" = 1'-0"



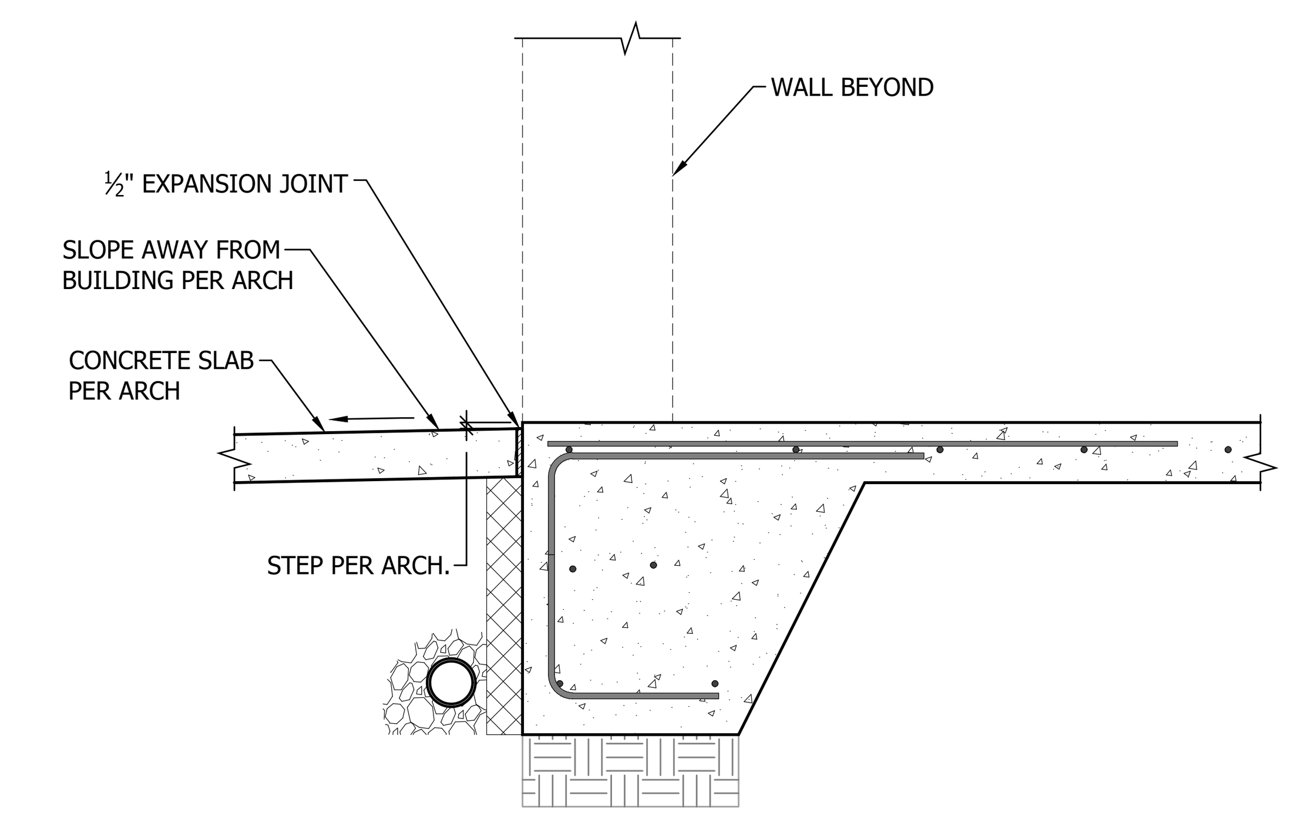
NOTE: REFER TO DETAIL 5/S501 FOR ADDITIONAL INFORMATION

TYPICAL SLAB EDGE — 6/S501
3/4" = 1'-0"



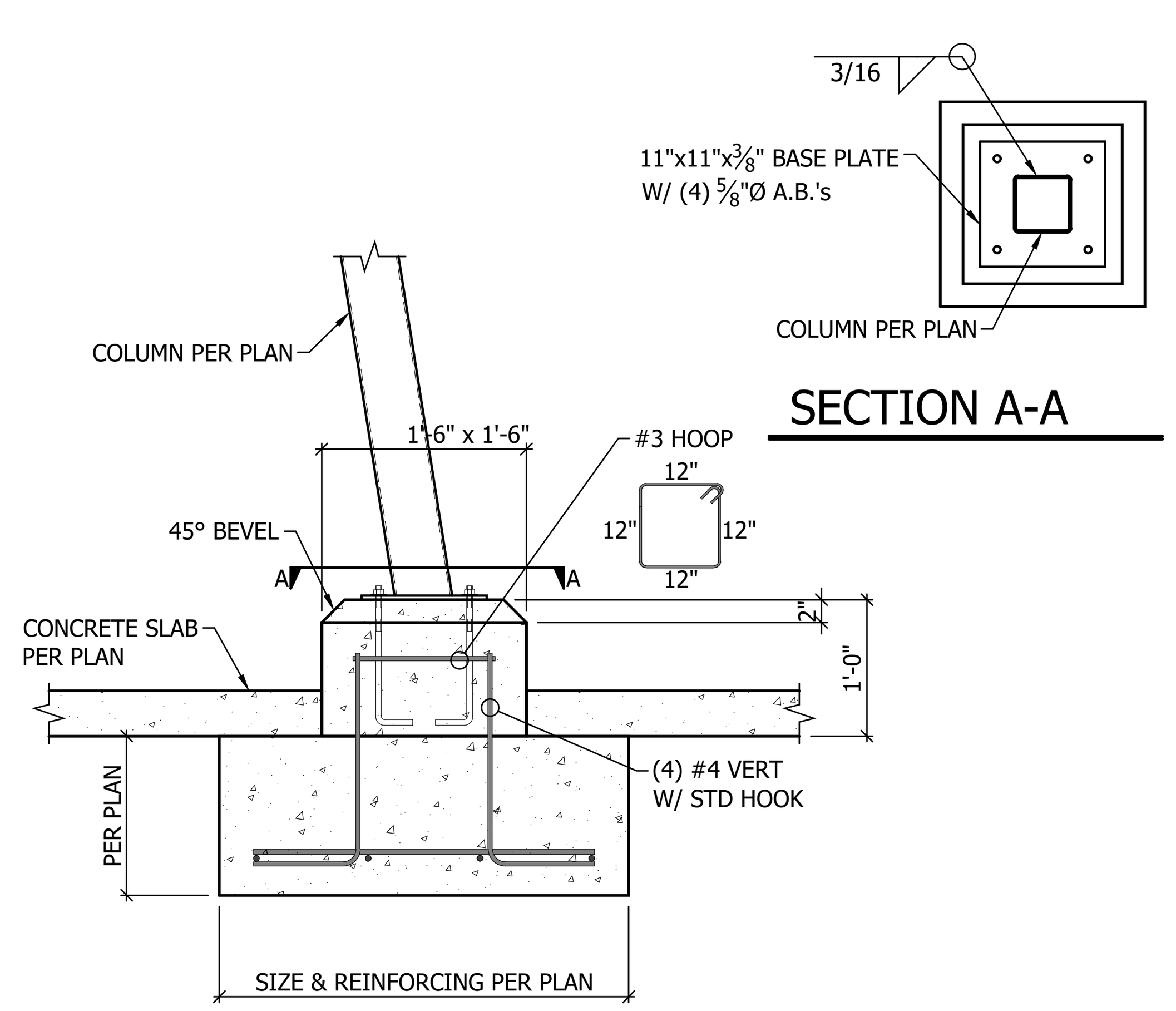
NOTE: REFER TO DETAIL 5/S501 FOR ADDITIONAL INFORMATION

TYPICAL SLAB EDGE @ HOLDOWN — 7/S501
3/4" = 1'-0"



NOTE: REFER TO DETAIL 6/S501 FOR ADDITIONAL INFORMATION

TYPICAL SLAB EDGE @ OPENING — 8/S501
3/4" = 1'-0"



COLUMN FOOTING — 9/S501
3/4" = 1'-0"

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December 19, 2013
CAMERON B. SWEARINGIN
EXPIRES: JUNE 30, 2026

project:
AMITY SCHOOL DISTRICT
DISTRICT BUILDING
503 OAK AVENUE
AMITY, OR 97101

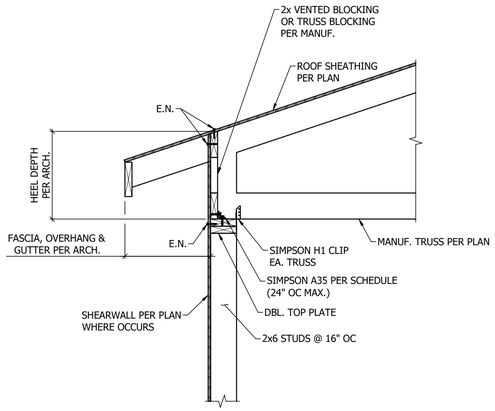
consultants:
MSC ENGINEERS
CONSULTING STRUCTURAL ENGINEERS
SINCE 1925

revisions:

date: 10-01-25
project: 250525
dwg file:
drawn by: JCP
checked by: CBS

FOUNDATION DETAILS

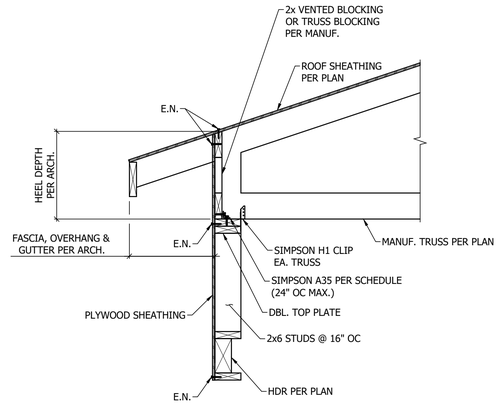
sheet:
S-501
of:



TRUSS CONNECTION @ EXTERIOR WALL

3/4" = 1'-0"

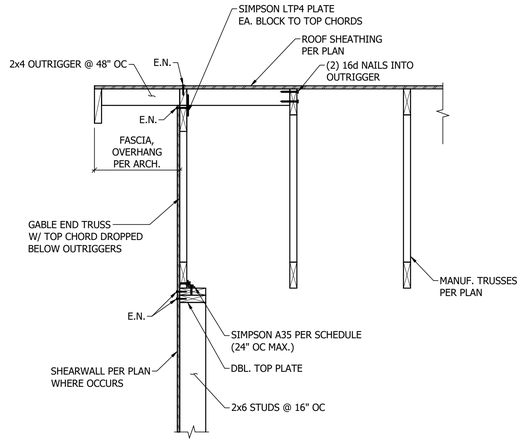
1 S801



TRUSS CONNECTION @ HEADER

3/4" = 1'-0"

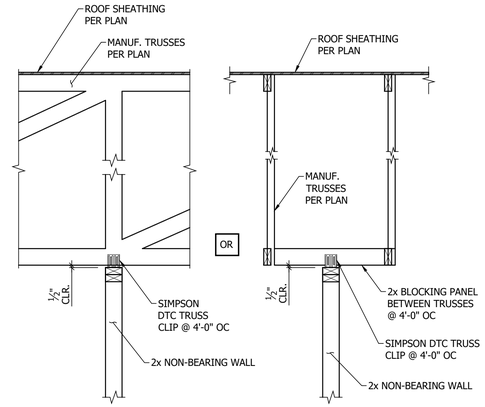
2 S801



GABLE END TRUSS @ EXTERIOR WALLS

3/4" = 1'-0"

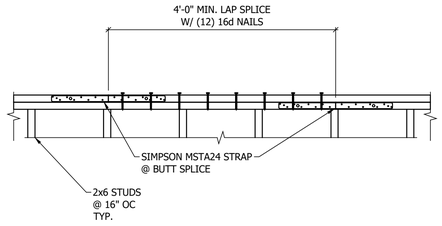
3 S801



TRUSS @ NON-BEARING WALL

3/4" = 1'-0"

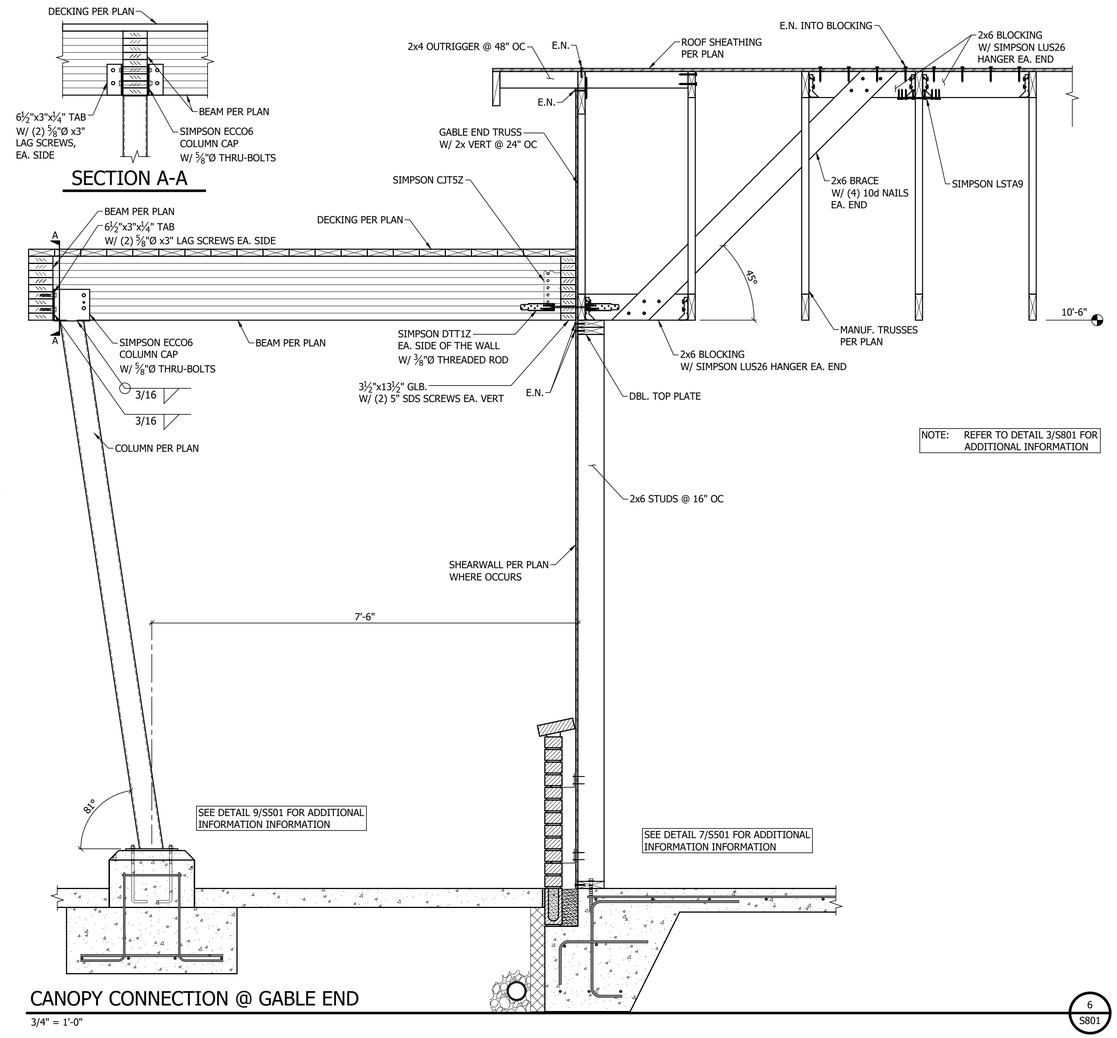
4 S801



TYPICAL DBL. TOP PLATE SPLICE

3/4" = 1'-0"

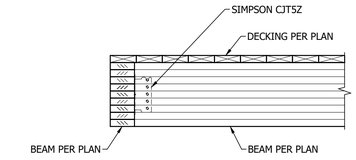
5 S801



CANOPY CONNECTION @ GABLE END

3/4" = 1'-0"

6 S801



BEAM TO BEAM CONNECTION

3/4" = 1'-0"

7 S801

FACET ARCHITECTS
Formerly Carlson Veit Junge Architects
3095 River Road N Salem, OR 97303 / 503.390.0281

STRUCTURAL
REGISTERED PROFESSIONAL
ENGINEER
63202
DIGITALLY SIGNED
OREGON
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CONSULTING STRUCTURAL ENGINEERS
3470 Pacebend Place NE
Suite 120
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SINCE 1925

revisions:

date: 10-01-25
project: 250525
dwg file:
drawn by: JCP
checked by: CBS

ROOF FRAMING
DETAILS

sheet:
S-801
of:

GENERAL NOTES

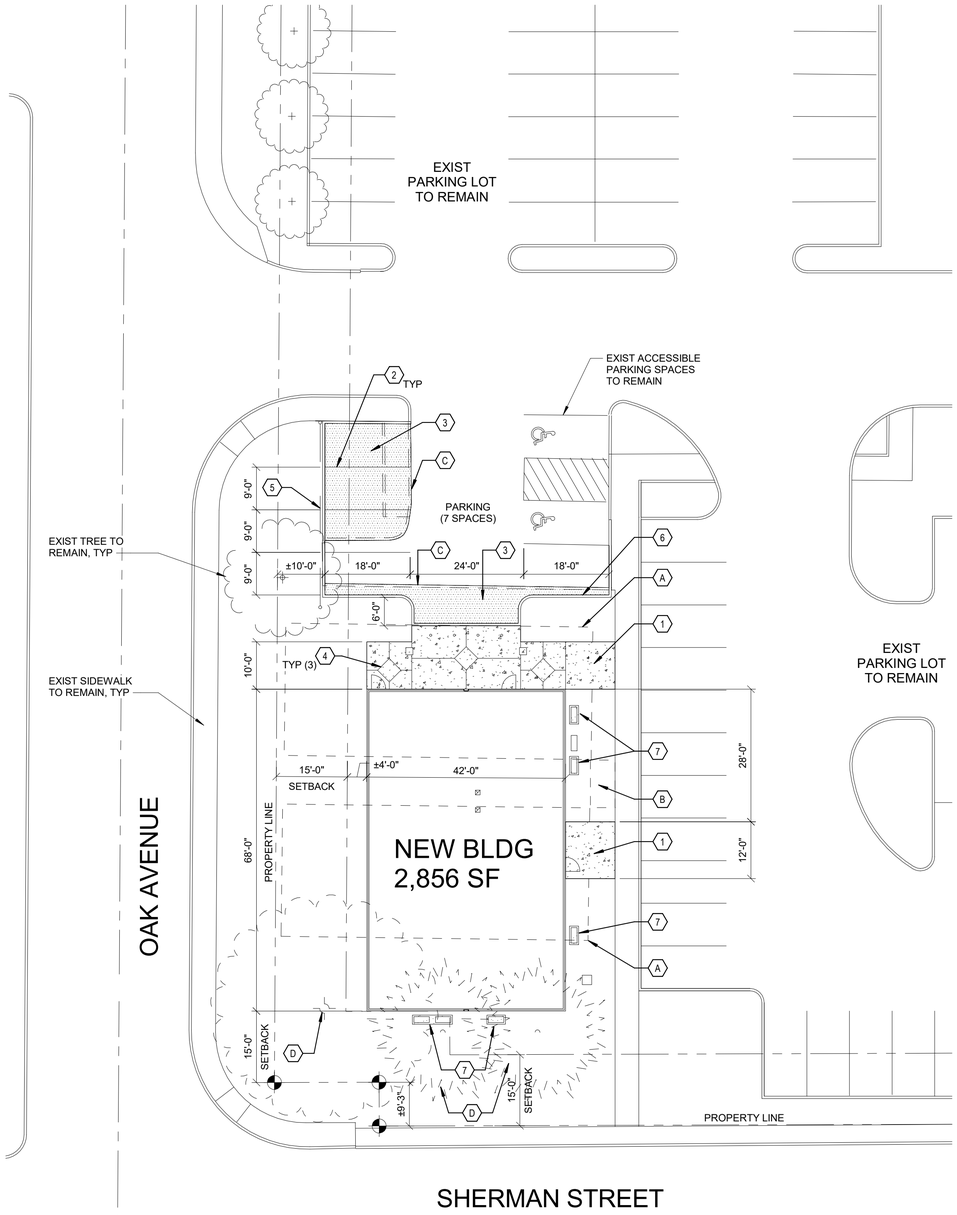
1. PATCH EXIST AC PAVING WHERE AFFECTED BY NEW WORK, ALL EDGES TO BE CLEAN SAWCUT

DEMOLITION NOTES

- (A) REMOVE EXISTING BUILDING (BY OTHERS)
- (B) REMOVE EXISTING CONCRETE
- (C) REMOVE EXISTING CURB & SIDEWALK
- (D) REMOVE EXISTING (3) TREES

CONSTRUCTION NOTES

- (1) NEW CONCRETE WALKWAY
- (2) NEW 4" WIDE WHITE PAINTED STRIPING
- (3) NEW AC PAVING
- (4) 42" X 42" STAMPED CONCRETE, LOGO TO FACE PARKING LOT
- (5) 5' TALL GALV CHAINLINK FENCE W/ SIGHT OBSCURING PRIVACY SLATS
- (6) NEW CONCRETE CURB, TYP
- (7) 4" CONCRETE HOUSEKEEPING PAD, REFER TO MECHANICAL



FLOOR PLAN
1/16" = 1'-0"

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REGISTERED ARCHITECT
ANGELA M. FLORES
SALEM, OREGON
STATE OF OREGON

project:
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AMITY, OREGON 97101

consultants:

revisions:

#	Description	Date

date: 10-03-25
project: 01825
drawn by: PK
checked by: AF

SITE PLAN

sheet: A-101
of:

DOOR SCHEDULE

DOOR MARK	SIZE W	SIZE HT	SIZE THK	DOOR TYPE	DOOR CONST	DOOR FINISH	DOOR GLASS	FRAME CONST	FRAME FINISH	FRAME ELEVATION/DETAILS	RATING	HARDWARE	REMARKS
101A	3'-0"	7'-0"	1 3/4"	C	HS	ME	1" T/IN	HS	ME	1,2,3/A-502	-	1.0	NOTE 1
102A	3'-0"	7'-0"	1 3/4"	B	SC	WT	1/4" T	HS	ME	4/A-502	-	4.0	
102B	3'-0"	7'-0"	1 3/4"	B	HS	ME	1" T/IN	HS	ME	1,2,3/A-502	-	2.0	NOTE 1
103A	3'-0"	7'-0"	1 3/4"	D	SC	WT	1/4" T	HS	ME	4/A-502	-	3.0	NOTE 1
103B	3'-0"	7'-0"	1 3/4"	B	SC	WT	1/4" T	HS	ME	4/A-502	-	4.0	
104A	3'-0"	7'-0"	1 3/4"	B	SC	WT	1/4" T	HS	ME	4/A-502	-	3.0	NOTE 1
104B	3'-0"	7'-0"	1 3/4"	B	HS	ME	1" T/IN	HS	ME	4/A-502	-	2.0	NOTE 1
106A	3'-0"	7'-0"	1 3/4"	B	SC	WT	1/4" T	HS	ME	4/A-502	-	4.0	
107A	3'-0"	7'-0"	1 3/4"	B	SC	WT	1/4" T	HS	ME	4/A-502	-	4.0	
108A	3'-0"	7'-0"	1 3/4"	A	SC	WT	-	HS	ME	4/A-502	-	5.0	
109A	3'-0"	7'-0"	1 3/4"	B	SC	WT	1/4" T	HS	ME	4/A-502	-	4.0	
110A	3'-0"	7'-0"	1 3/4"	A	SC	WT	-	HS	ME	4/A-502	-	5.0	
111A	3'-0"	7'-0"	1 3/4"	A	SC	WT	-	HS	ME	4/A-502	-	6.0	
112A	3'-0"	7'-0"	1 3/4"	A	SC	WT	-	HS	ME	4/A-502	-	6.0	

TYPE
SEE DOOR TYPES

CONSTRUCTION
SC = SOLID CORE WOOD
AL = ALUMINUM
HS = HOLLOW STEEL

FINISH
WT = WOOD TRANSPARENT
ME = METAL ENAMEL
AN = ANODIZED ALUMINUM

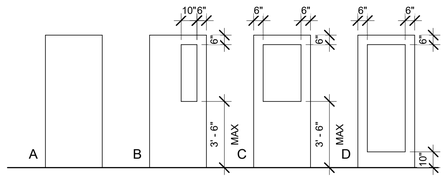
GLASS
T = TEMPERED
T/IN = TEMPERED INSULATING

ELEVATION
SEE FRAME ELEVATIONS

RATING
20, 25, 60, 90 MINUTES
FIRE RATING IN MINUTES

HARDWARE
NUMBER REFERS TO HARDWARE GROUP IN HARDWARE SCHEDULE

REMARKS
1. CARD READER



DOOR TYPES

WINDOW SCHEDULE

WDW MARK	NOMINAL WINDOW SIZE W	NOMINAL WINDOW SIZE HT	OPERATION TYPE	FRAME MATERIAL	FRAME FINISH	FRAME ELEVATION	GLASS THICKNESS	GLASS TYPE	GLASS COLOR	REMARKS
A	6' - 0"	4' - 2"	F/SL	V	FF	A-201	1"	T/IN	CO	NOTE 1
B	4' - 0"	4' - 2"	F/SL	V	FF	A-201	1"	T/IN	CO	NOTE 1
C	4' - 0"	2' - 8"	SL	V	FF	A-201	1"	T/IN	CO	NOTE 1
D	5' - 0"	4' - 4"	SL	AL	AN	A-201	1/4"	T	C	
E	3' - 0"	4' - 2"	F	HS	ME	A-201	1/4"	T	C	NOTE 1

OPERATION TYPE
F = FIXED
SL = SLIDER

FRAME MATERIAL
V = VINYL
AL = ALUMINUM
HS = HOLLOW STEEL

FRAME FINISH
ME = METAL ENAMEL
FF = FACTORY FINISH
AN = ANODIZED ALUMINUM

FRAME ELEVATIONS
SEE FRAME ELEVATIONS

GLASS THICKNESS
NUMBER REFERS TO OVERALL GLAZING THICKNESS.

GLASS TYPE
T = TEMPERED
T/IN = TEMPERED INSULATING

GLASS COLOR
C = CLEAR
CO = LOW-E COATED

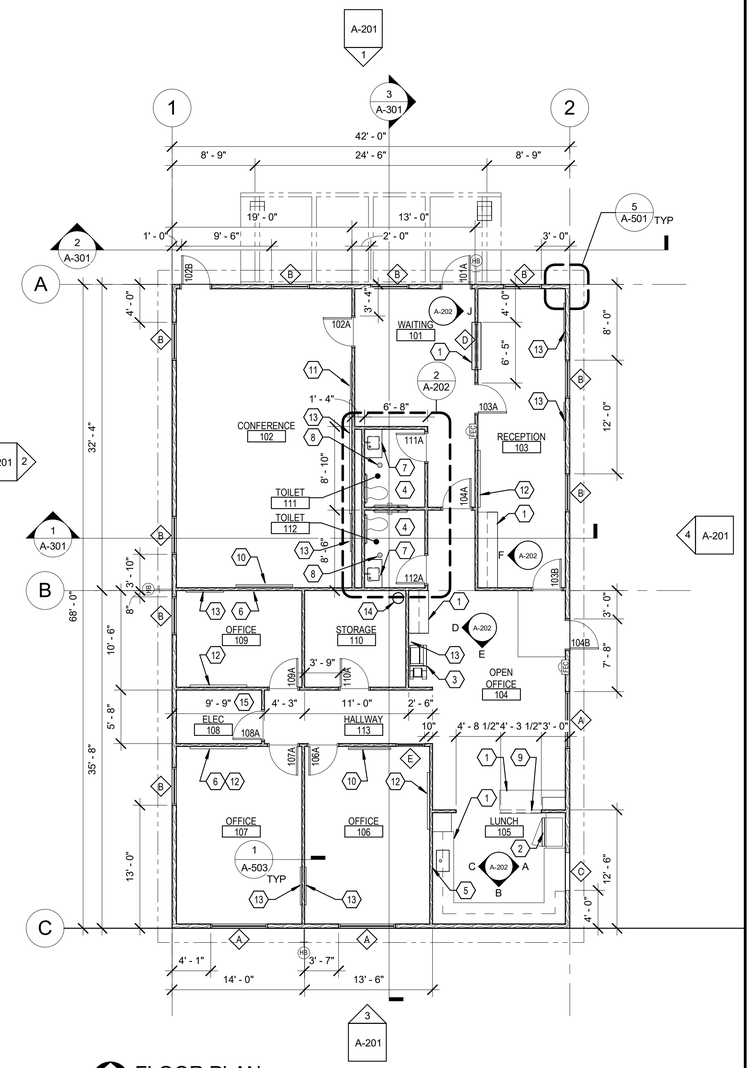
REMARKS
1. PROVIDE WINDOW SHADES

GENERAL NOTES

1. ALL EXTERIOR WALLS TO BE 2x6 WOOD STUDS @ 16" OC WITH R-21 BATT INSULATION, WRB, 1" CONTINUOUS INSULATION WITH 'Z' FURRING AND EXTERIOR FINISHES PER ELEVATIONS; PROVIDE (1) LAYER GYP BOARD AT INTERIOR FINISH. ALL INTERIOR WALLS TO BE 2x4 WOOD STUDS @ 16" OC WITH (1) LAYER GYP BOARD EACH SIDE, UON
2. PROVIDE PAINT AT INTERIOR AND EXTERIOR, UP TO (4) EXTERIOR COLORS. REFER TO FINISH SCHEDULE FOR INTERIOR COLORS
3. APPLIANCES TO BE OFCI
4. GRID LINES ALIGN W/ EXTERIOR FACE OF STUD.
5. SEAL ALL JOINTS AND CRACKS IN CONCRETE SLAB ON GRADE IN ACCORDANCE WITH OSSC 1811.2 FOR RADON CONTROL METHODS.

CONSTRUCTION NOTES

1. PLAM CASEWORK
2. OFCI REFRIGERATOR W/ PLUMBING FOR ICE MAKER
3. OFOI COPIER
4. PROVIDE TOILET ACCESSORIES INCLUDING GRAB BARS, PTD, TPD, MI, SD, TSCD, SNR, CH
5. PROVIDE SD & PTD
6. PROVIDE BACKING IN WALL FOR FUTURE TV, SEE DETAIL 2 / A-503
7. SOLID SURFACE COUNTER WITH INTEGRAL SINK, MANUAL FAUCET, AND CONCEALED WALL BRACKETS
8. FLOOR DRAIN
9. PARTIAL-HEIGHT WALL
10. PROVIDE BACKING AND MONITOR MOUNT FOR OFCI TV, SEE DETAIL 2 / A-503
11. 12 FT LONG MARKER BOARD
12. 6 FT LONG MARKER BOARD
13. 4 FT LONG TACKBOARD
14. RADON EXHAUST FAN, COORDINATE WITH MECHANICAL
15. PROVIDE PLYWOOD AT WALLS UP TO 8'-4" AFF, THIS ROOM



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

FACET ARCHITECTS
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revisions:

Description	Date

date: 10-03-25
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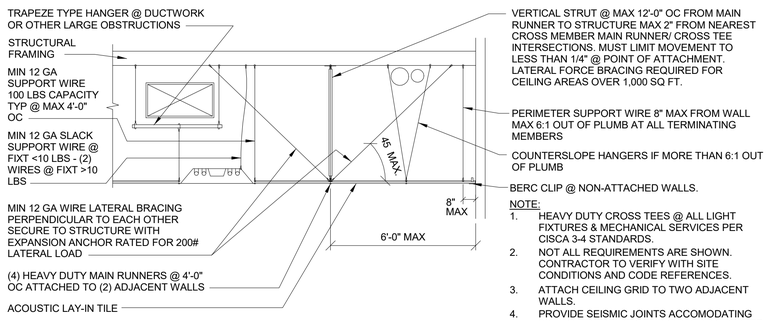
drawn by: PK
checked by: AF

FLOOR PLAN

sheet: A-102
of:

CONSTRUCT SUSPENDED CEILINGS IN ACCORDANCE WITH NORTHWEST WALL & CEILING BUREAU - TECHNICAL BULLETIN 401.



NOTE:
1. HEAVY DUTY CROSS TEES @ ALL LIGHT FIXTURES & MECHANICAL SERVICES PER CISCA 3-4 STANDARDS.
2. NOT ALL REQUIREMENTS ARE SHOWN. CONTRACTOR TO VERIFY WITH SITE CONDITIONS AND CODE REFERENCES.
3. ATTACH CEILING GRID TO TWO ADJACENT WALLS.
4. PROVIDE SEISMIC JOINTS ACCOMODATING 3/4" MOVEMENT AT CEILING AREAS GREATER THAN 2,500 SQ FT.

1 SUSPENDED CEILING DETAIL
1/2" = 1'-0"

CEILING LEGEND

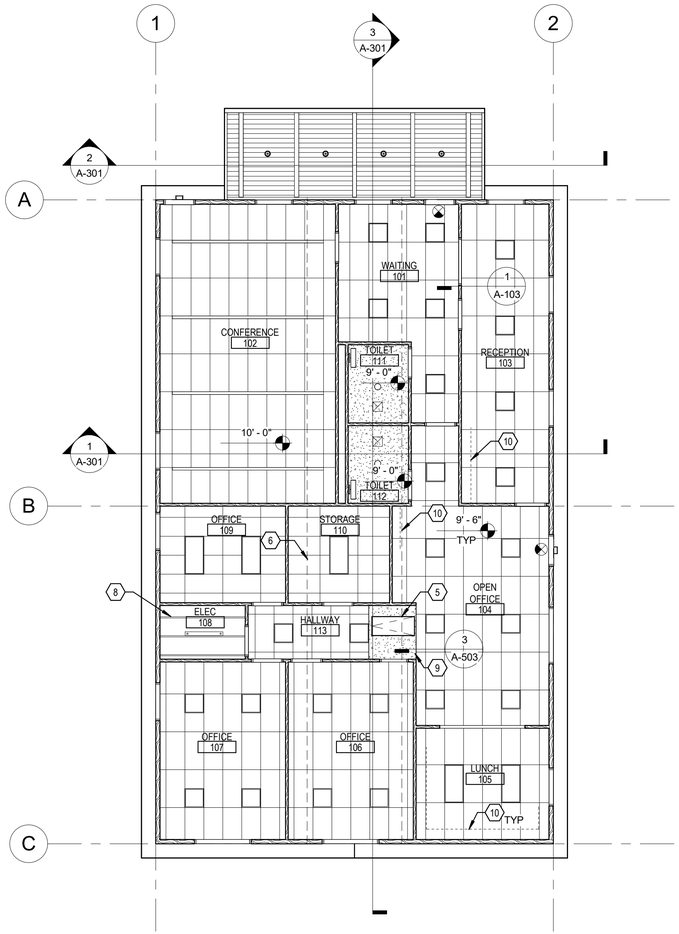
- NEW 2X4 SUSP CLG
- NEW GYP BD CLG
- 3x6 T&G CAR DECKING, STAINED
- NEW LED LINEAR SEE RCP FOR SIZE
- NEW 2x4 LED RECESSED TROFFER
- NEW 2x2 LED RECESSED TROFFER
- NEW RECESSED CAN LIGHT
- EMERGENCY EXIT LIGHT

GENERAL NOTES

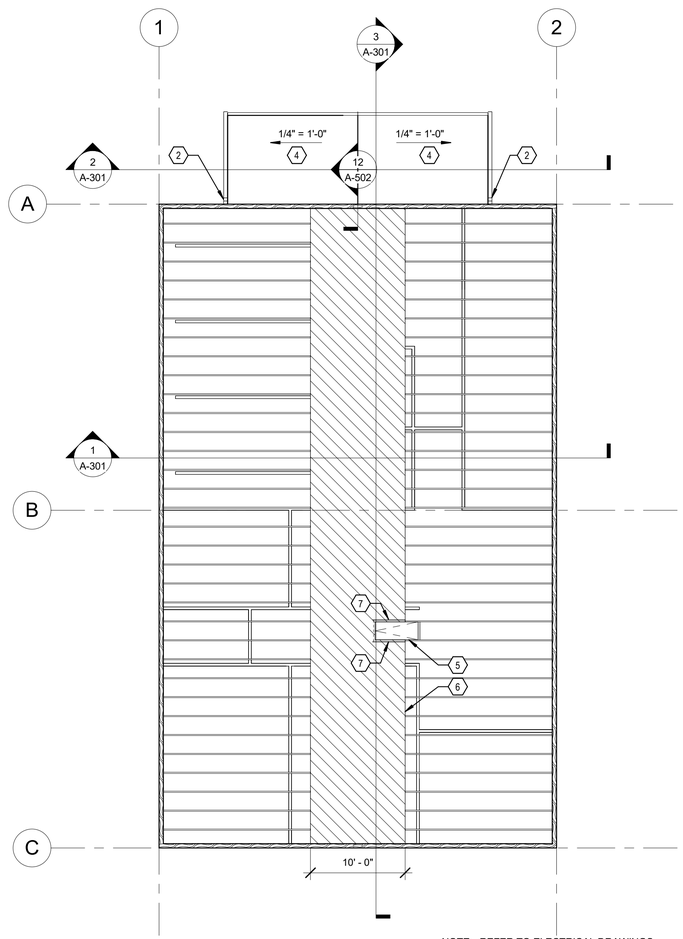
1. ALL CEILING GRIDS TO BE CENTERED IN ROOM, UON
2. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPES
3. HVAC DIFFUSERS SHOWN FOR REFERENCE ONLY; REFER TO MECHANICAL DRAWINGS FOR DIFFUSER GRILLE TYPES AND LOCATIONS
4. ROOF PENETRATIONS NOT SHOWN. COORDINATE WORK WITH OTHER TRADES

CONSTRUCTION NOTES

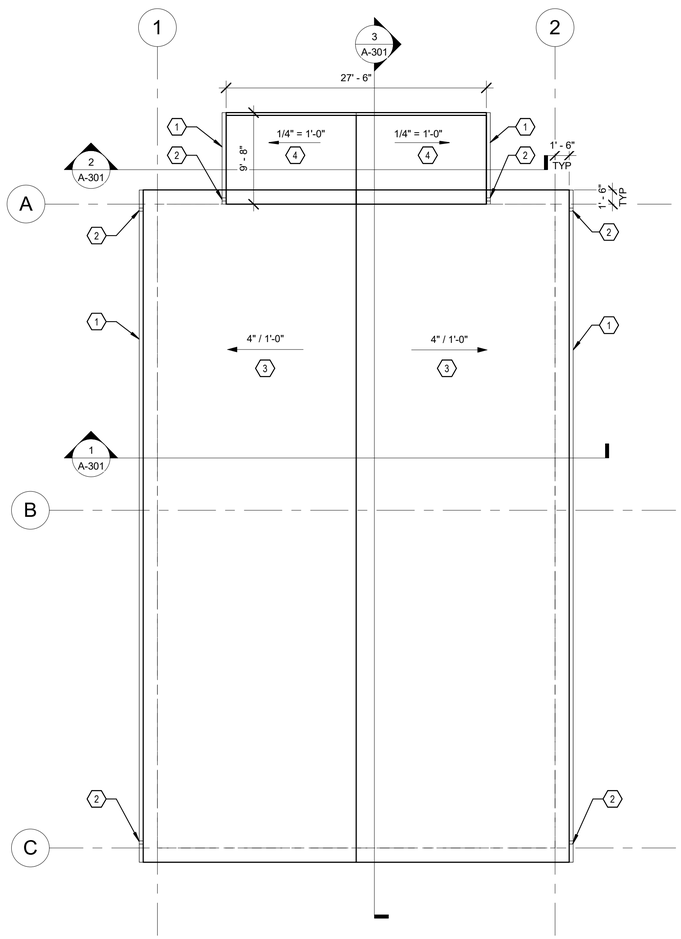
1. 5" 'F' STYLE GUTTER
2. PREFINISHED DOWNSPOUT, SIZE PER MECHANICAL
3. ASPHALT SHINGLE ROOFING
4. TPO SINGLE PLY MEMBRANE ROOFING
5. ATTIC ACCESS HATCH
6. ATTIC CATWALK, PROVIDE 3/4" PLYWOOD ENTIRE AREA
7. 42" WOOD SAFETY RAIL, PROVIDE CHAIN WITH LATCH BETWEEN POSTS AT HATCH ENTRANCE
8. OPEN TO STRUCTURE
9. GYP BOARD AT BOTTOM OF TRUSSES, PROVIDE BLKG AS REQUIRED. PROVIDE SOFFIT WALLS DOWN TO CEILING GRID
10. UNDER-CABINET LIGHTS



REFLECTED CEILING PLAN
1/8" = 1'-0"



ATTIC PLAN
NOTE: REFER TO ELECTRICAL DRAWINGS FOR LIGHTING TYPES AND LOCATIONS



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

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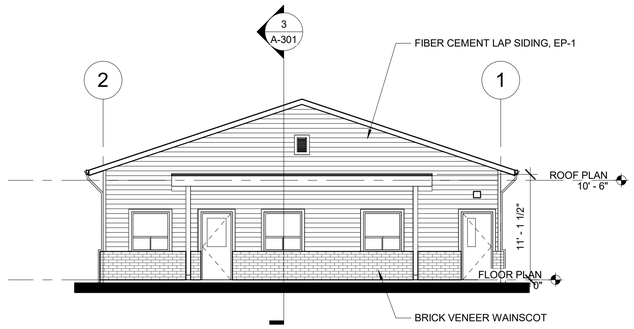
date: 10-03-25
project: 01825
drawn by: PK
checked by: AF

REFLECTED CEILING PLAN & ROOF PLAN

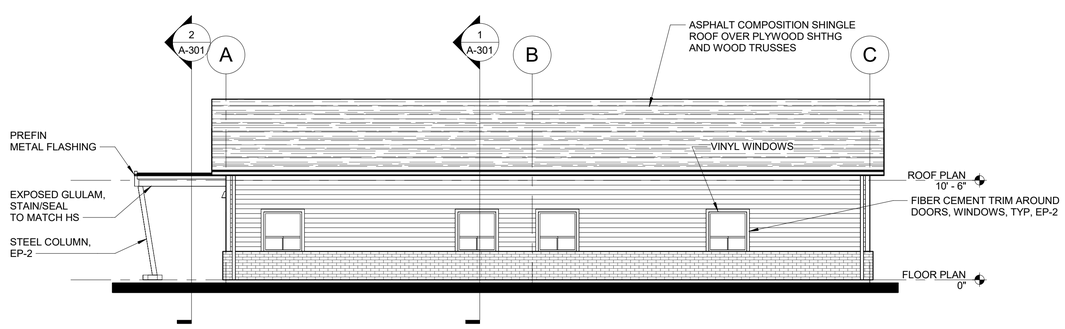
sheet: A-103

of:

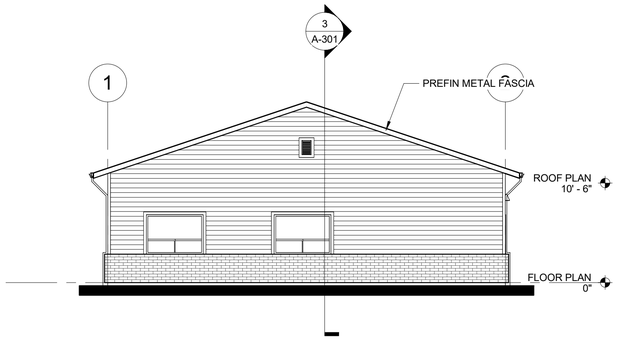
Attachment A



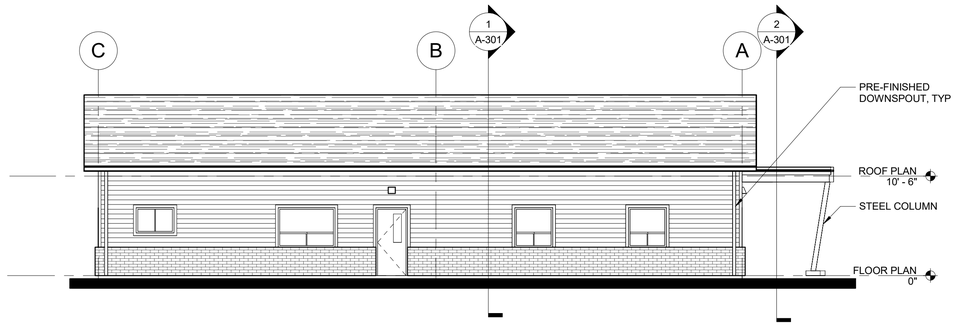
1 NORTH ELEVATION
1/8" = 1'-0"



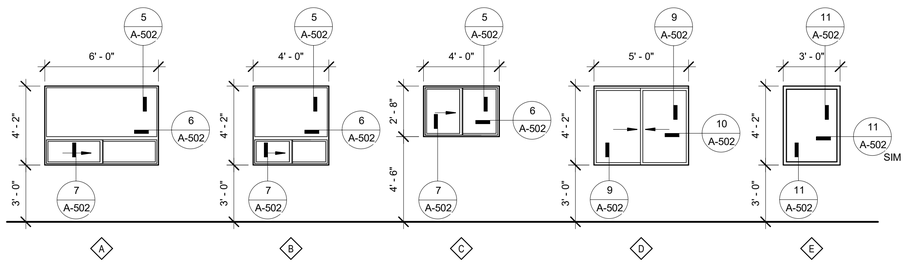
2 WEST ELEVATION
1/8" = 1'-0"



3 SOUTH ELEVATION
1/8" = 1'-0"



4 EAST ELEVATION
1/8" = 1'-0"



WINDOW ELEVATIONS
1/4" = 1'-0"

EXTERIOR FINISH SCHEDULE				
ITEM CODE	MATERIAL TYPE	MANUFACTURER	COLOR	NOTES
EP-1	EXTERIOR PAINT	-	-	FIELD
EP-2	EXTERIOR PAINT	-	-	TRIM @ DRS & WINDOWS / STL COLUMNS
EP-3	EXTERIOR PAINT	-	-	-
EP-4	EXTERIOR PAINT	-	-	-
EP-5	EXTERIOR PAINT	-	-	-

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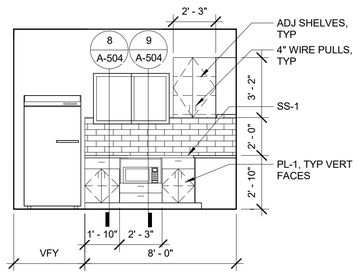
EXTERIOR ELEVATIONS

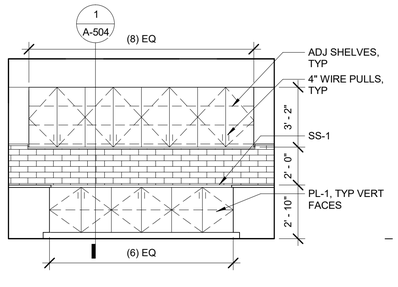
sheet: A-201

of:

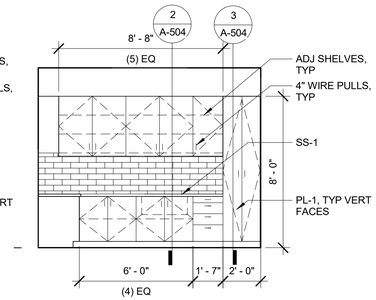
Attachment A



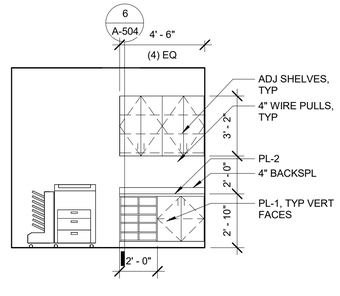
A LUNCH 105 - EAST
1/4" = 1'-0"



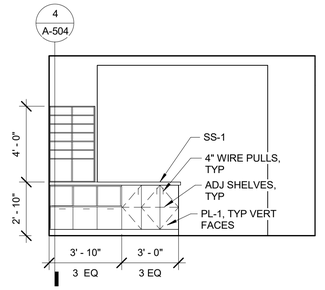
B LUNCH 105 - SOUTH
1/4" = 1'-0"



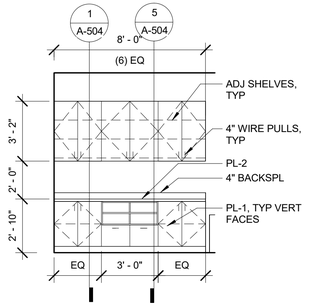
C LUNCH 105 - WEST
1/4" = 1'-0"



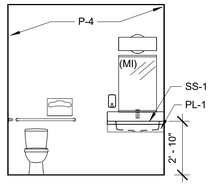
D OPEN OFFICE 104
1/4" = 1'-0"



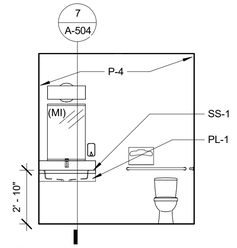
E OPEN OFFICE 104 - SOUTH
1/4" = 1'-0"



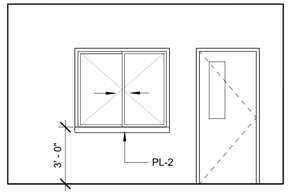
F RECEPTION 103
1/4" = 1'-0"



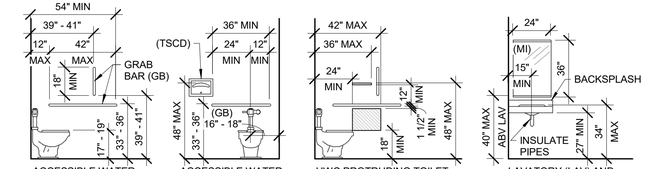
G RESTROOM 111A
1/4" = 1'-0"

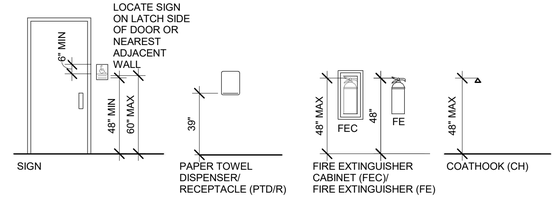


H RESTROOM 112A
1/4" = 1'-0"



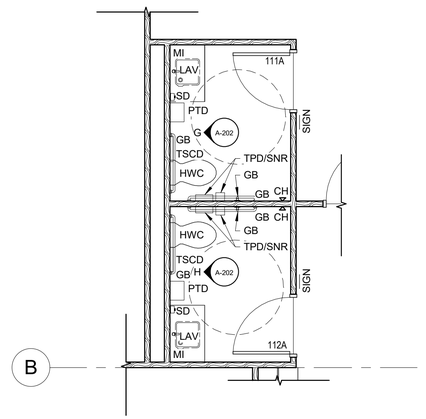
J WAITING 101 - TRANSACTION COUNTER
1/4" = 1'-0"





TYPICAL UNLESS OTHERWISE NOTED
ALL DIMENSIONS ARE CLEAR FINISH

1 FIXTURE MOUNTING HEIGHTS
1/4" = 1'-0"



2 LARGE SCALE PLAN
1/4" = 1'-0"

FACET ARCHITECTS
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REGISTERED ARCHITECT
ANGELA M. FLORES
SALEM, OREGON
STATE OF OREGON

project:
AMITY SCHOOL DISTRICT
DISTRICT OFFICE BUILDING
503 OAK AVENUE
AMITY, OREGON 97101

consultants:

revisions:

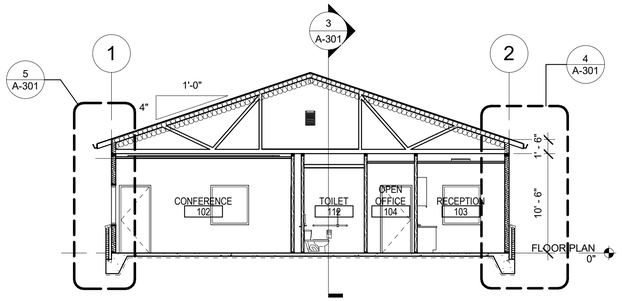
#	Description	Date

date: 10-03-25
project: 01825
drawn by: SS,PK
checked by: AF

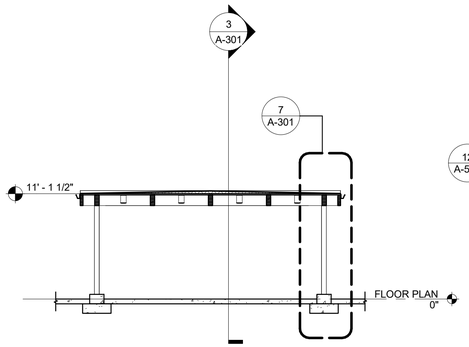
INTERIOR ELEVATIONS

sheet: A-202

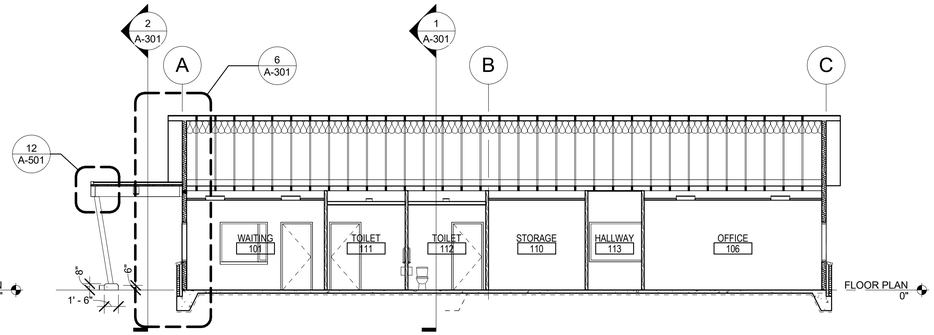
of:



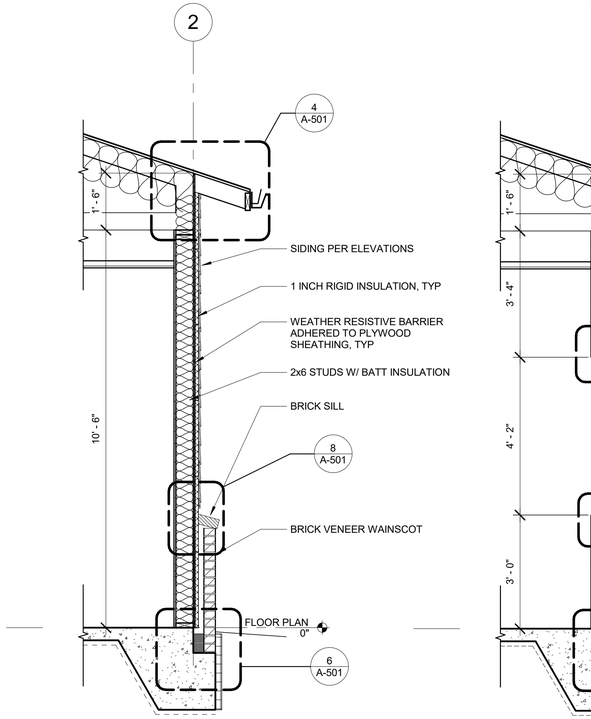
1 SECTION
1/8" = 1'-0"



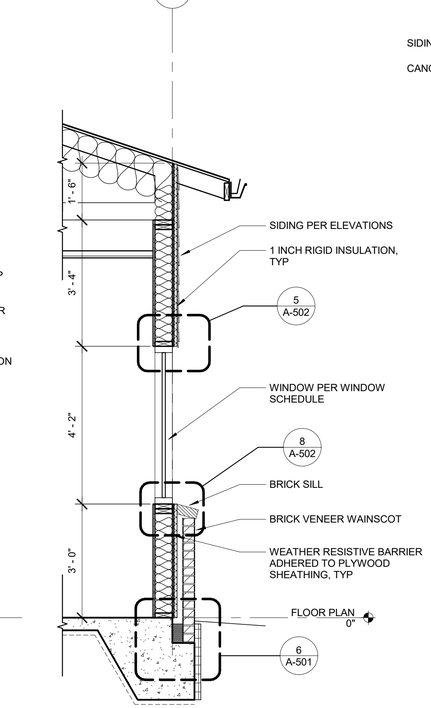
2 SECTION
1/8" = 1'-0"



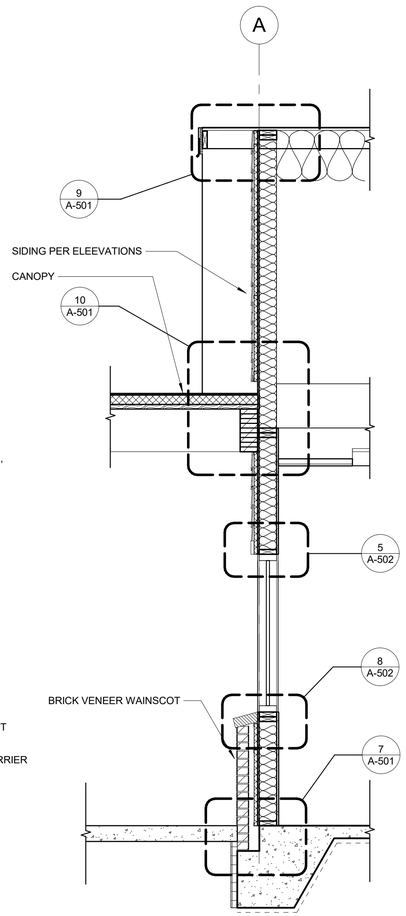
3 SECTION
1/8" = 1'-0"



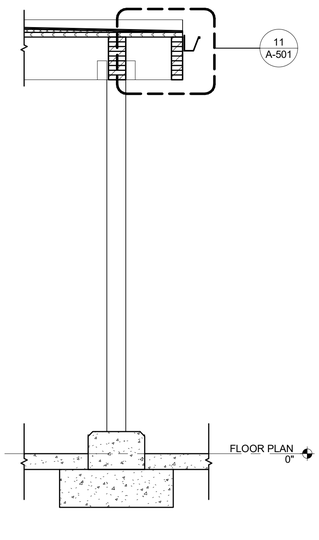
4 WALL SECTION
1/2" = 1'-0"



5 WALL SECTION AT WINDOW
1/2" = 1'-0"



6 WALL SECTION
1/2" = 1'-0"



7 COLUMN SECTION
1/2" = 1'-0"

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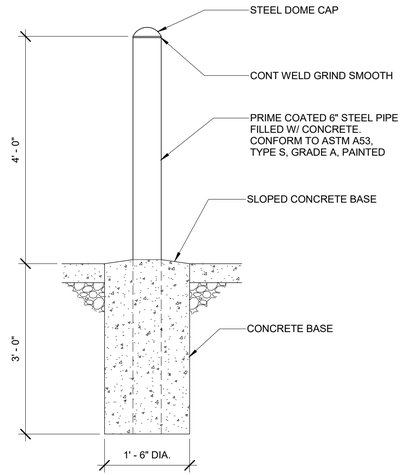
date: 10-03-25
project: 01825
drawn by: Author
checked by: Checker

BUILDING SECTIONS

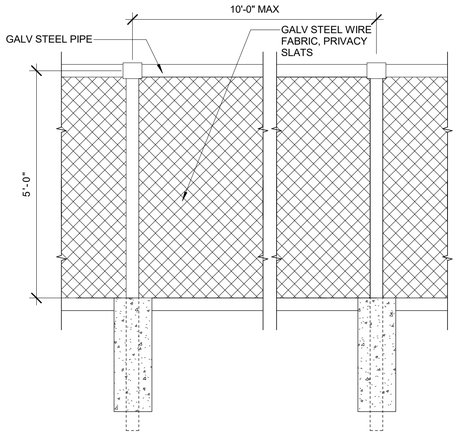
sheet: A-301

of:

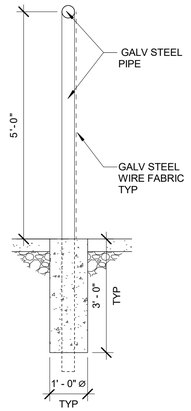
Attachment A



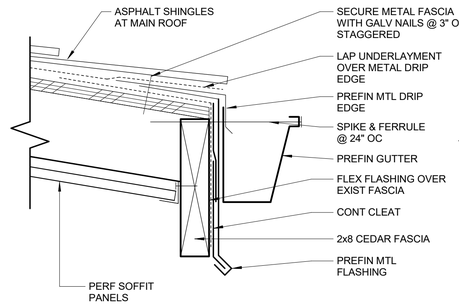
1 PIPE BOLLARD
3/4" = 1'-0"



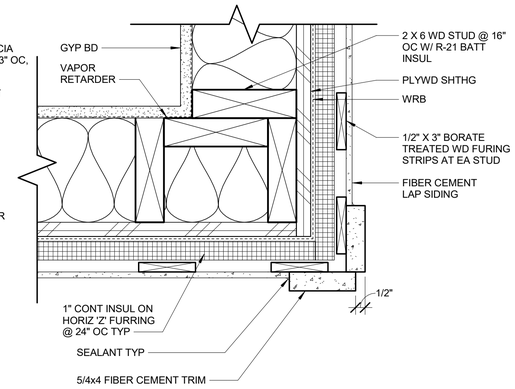
2 FENCE ELEVATION DETAIL
1/2" = 1'-0"



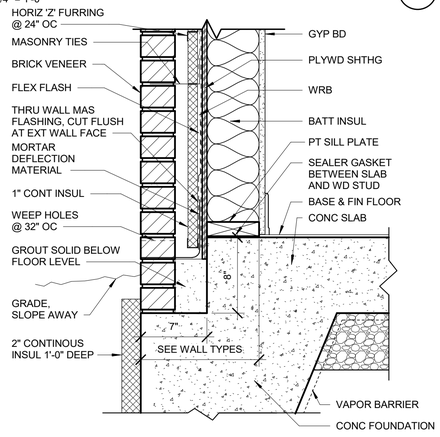
3 FENCE SECTION DETAIL
1/2" = 1'-0"



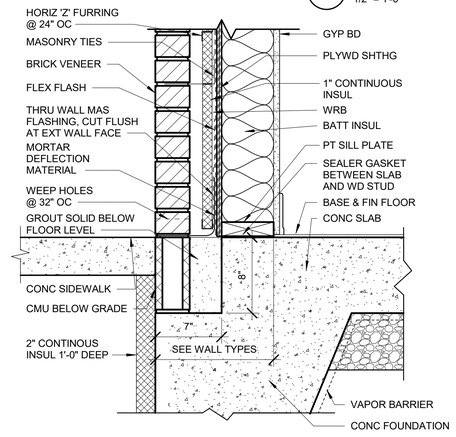
4 ROOF AT EAVE
3" = 1'-0"



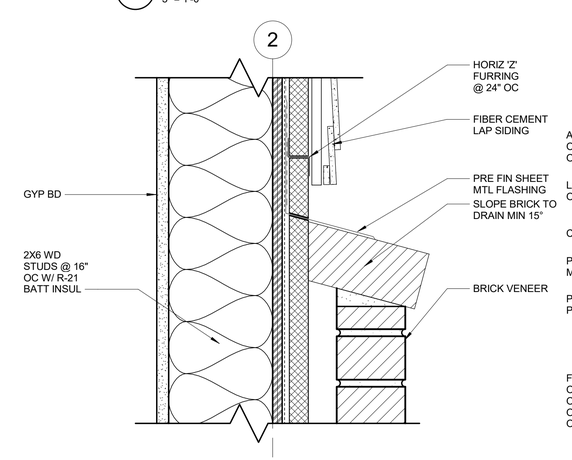
5 EXT WALL AT EXT CORNER
3" = 1'-0"



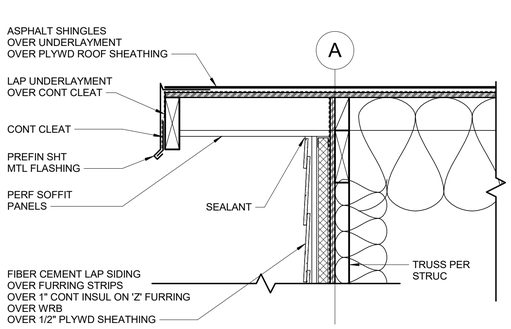
6 WALL TO FOOTING AT BRICK VENEER - LANDSCAPE
1 1/2" = 1'-0"



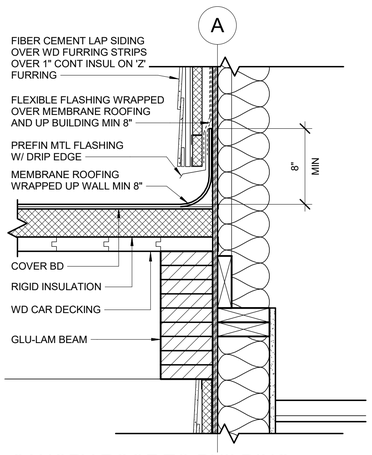
7 WALL TO FOOTING AT BRICK VENEER - SIDEWALK
1 1/2" = 1'-0"



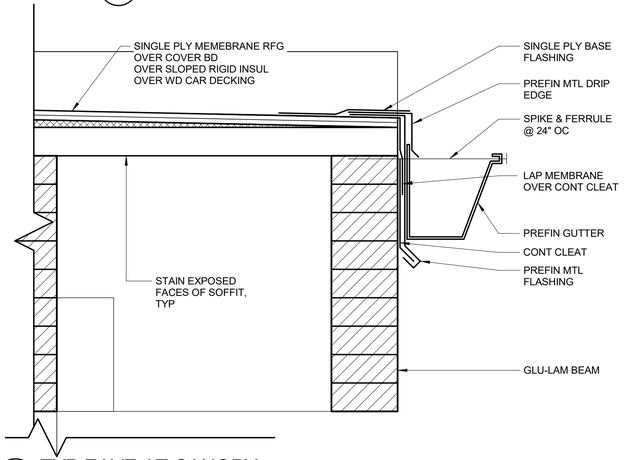
8 BRICK AT SIDING
3" = 1'-0"



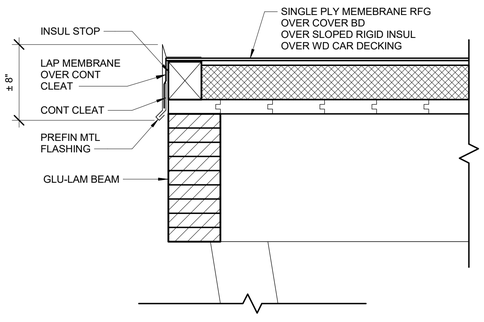
9 TYP ROOF RAKE
1 1/2" = 1'-0"



10 CANOPY ROOF TO BUILDING
1 1/2" = 1'-0"



11 TYP EAVE AT CANOPY
3" = 1'-0"



12 TYP RAKE AT CANOPY
1 1/2" = 1'-0"

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project:
AMITY SCHOOL DISTRICT
DISTRICT OFFICE BUILDING
503 OAK AVENUE
AMITY, OREGON 97101

consultants:

revisions:

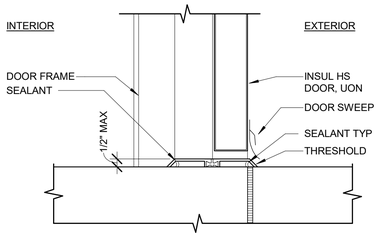
	Description	Date

date: 10-03-25
project: 01825
drawn by: PK
checked by: AF

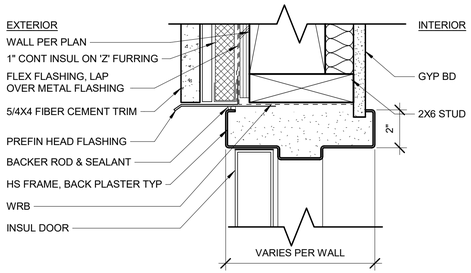
EXTERIOR & WALL DETAILS

sheet: A-501
of:

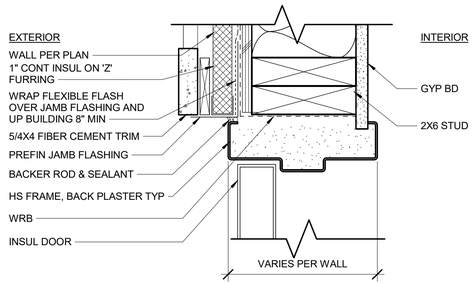
Attachment A



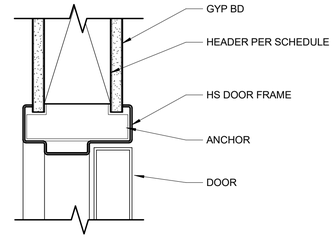
1 EXTERIOR DOOR SILL
3" = 1'-0"



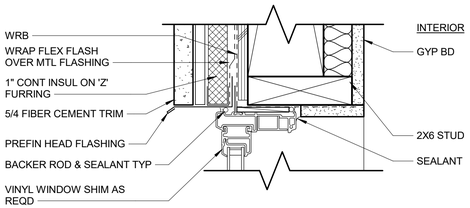
2 HS DOOR HEAD
3" = 1'-0"



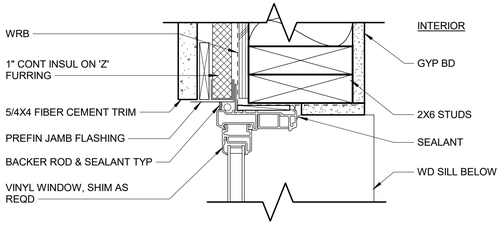
3 HS DOOR JAMB
3" = 1'-0"



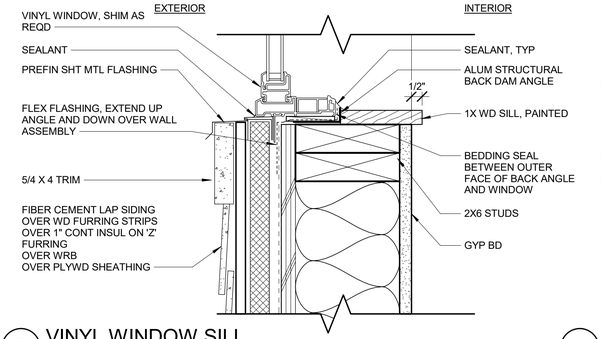
4 TYP DOOR HEAD/JAMB SIM
3" = 1'-0"



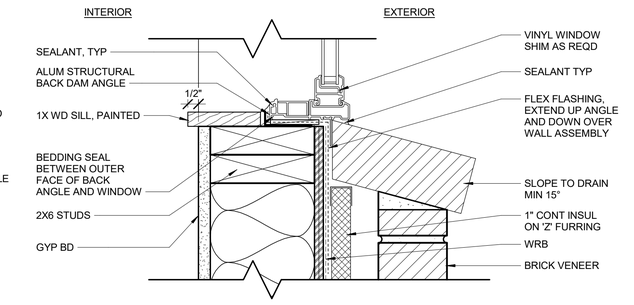
5 VINYL WINDOW HEAD
3" = 1'-0"



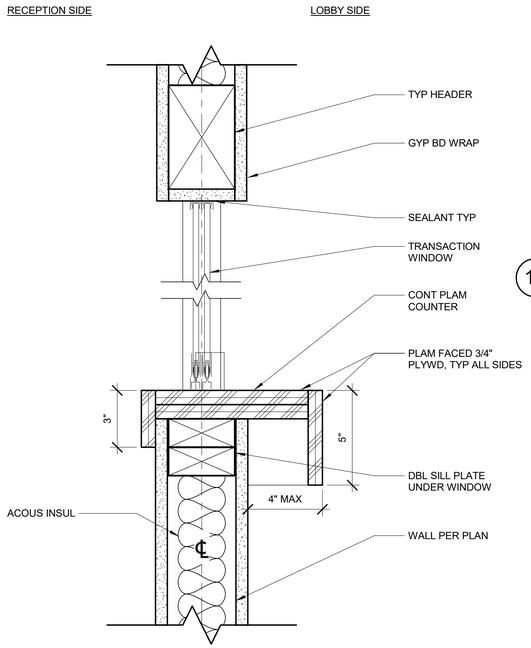
6 VINYL WINDOW JAMB
3" = 1'-0"



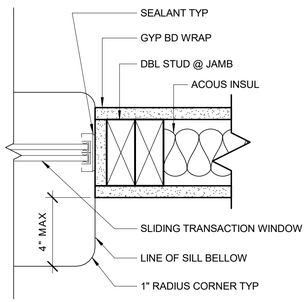
7 VINYL WINDOW SILL
3" = 1'-0"



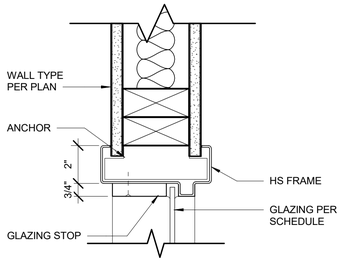
8 WINDOW - VINYL - SILL AT BRICK
3" = 1'-0"



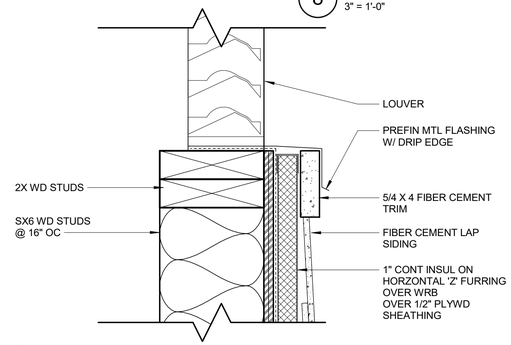
9 WINDOW INT SLIDING HEAD/SILL
3" = 1'-0"



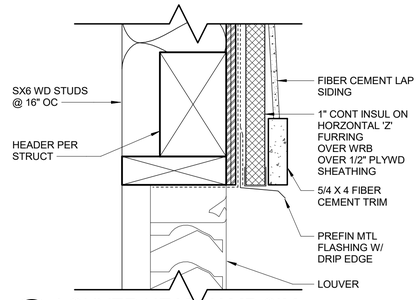
10 WINDOW INT SLIDING JAMB
3" = 1'-0"



11 WINDOW INT HS - HEAD/JAMB SIM
3" = 1'-0"



12 TYP LOUVER SILL
3" = 1'-0"



13 LOUVER HEAD/JAMB SIM
3" = 1'-0"

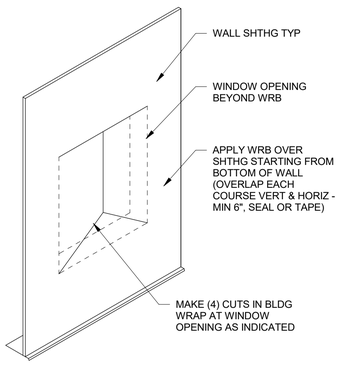


DIAGRAM 1

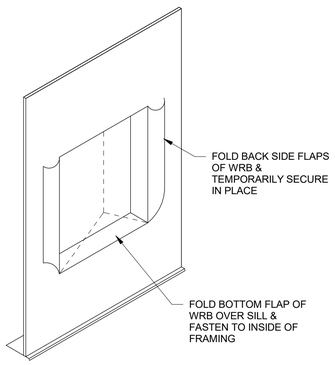


DIAGRAM 2

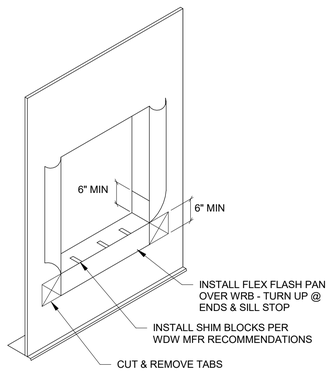


DIAGRAM 3

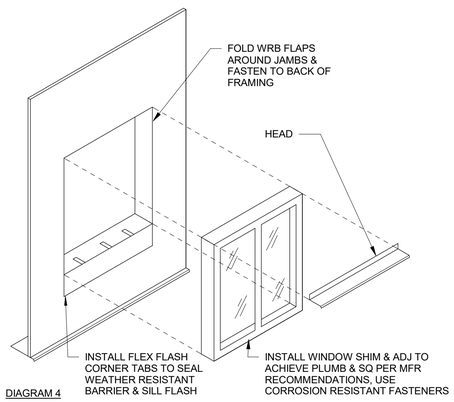


DIAGRAM 4

14 WINDOW FLASHING INSTALLATION
1/2" = 1'-0"

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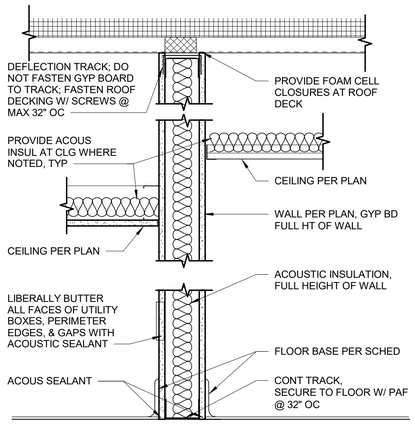
date: 10-03-25
project: 01825
drawn by: PK
checked by: AF

DOOR AND WINDOW DETAILS

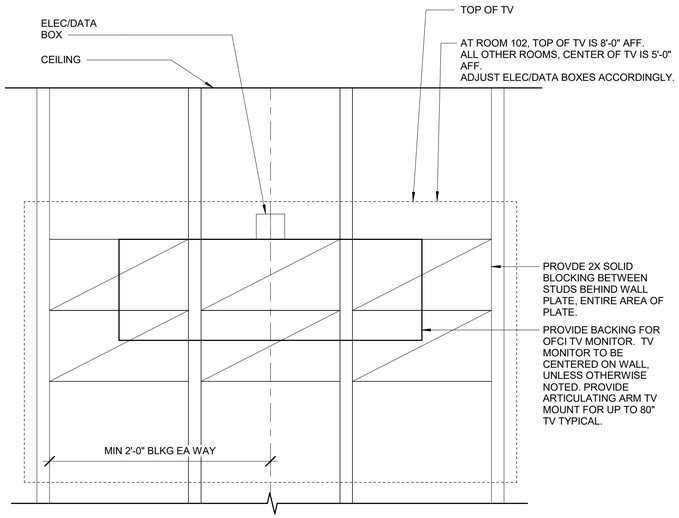
sheet: A-502

of:

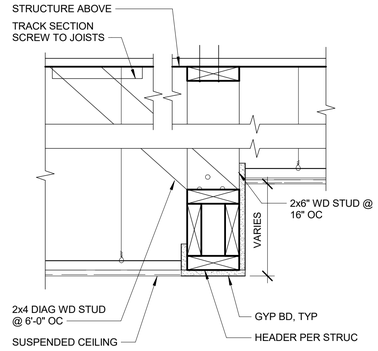
Attachment A



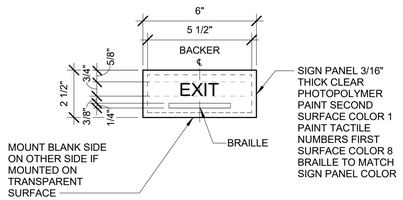
1 TYP AC WALL
1 1/2" = 1'-0"



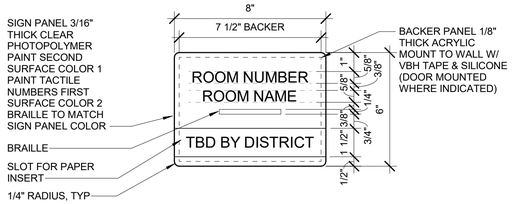
2 TV MOUNT DIAGRAM
1" = 1'-0"



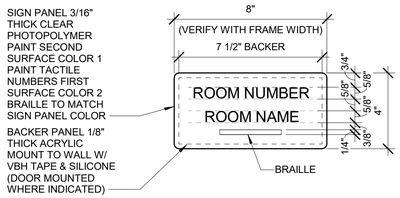
3 BULKHEAD WOOD DETAIL
1 1/2" = 1'-0"



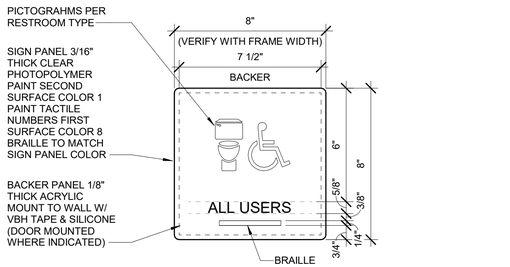
A SIGN TYPE 5 @ EXIT



C SIGN TYPE 1 @ CLASSROOM & OFFICE



B SIGN TYPE 2 @ WALL



D SIGN TYPE 4 @ RESTROOMS

4 INTERIOR SIGNAGE DETAIL
3" = 1'-0"

SIGN SCHEDULE

DOOR MARK	RM NO.	ROOM	SIGN TYPE
101A	101	WAITING	A
102A	102	CONFERENCE	C
102B	102	CONFERENCE	A
103A	103	RECEPTION	C
103B	103	RECEPTION	C
104A	104	OPEN OFFICE	A
104B	104	OPEN OFFICE	A
-	105	LUNCH	B
106A	106	OFFICE	C
107A	107	OFFICE	C
108A	108	ELEC	B
109A	109	OFFICE	C
110A	110	STORAGE	B
111A	111	TOILET	D
112A	112	TOILET	D

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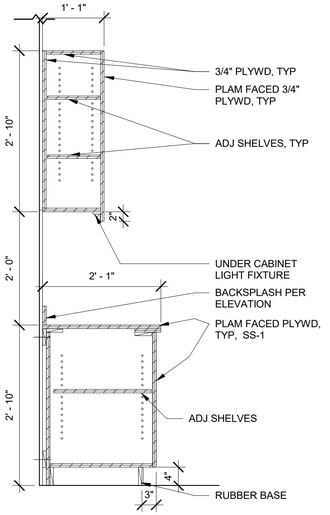
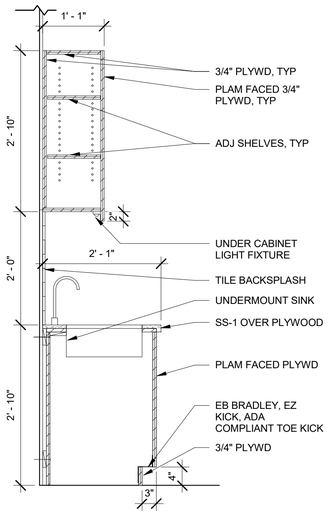
drawn by: SS
checked by: AMF

INTERIOR DETAILS

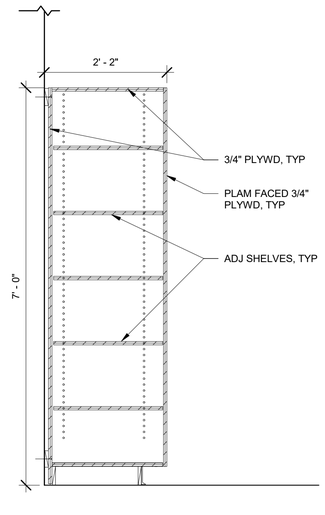
sheet: A-503
of:



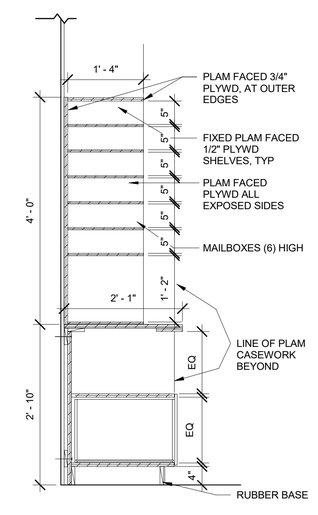
1 TYPICAL CASEWORK
3/4" = 1'-0"



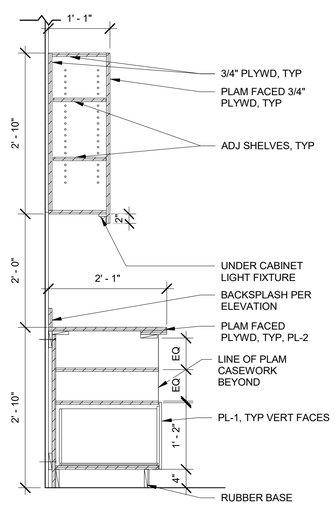
2 SINK DETAIL
3/4" = 1'-0"



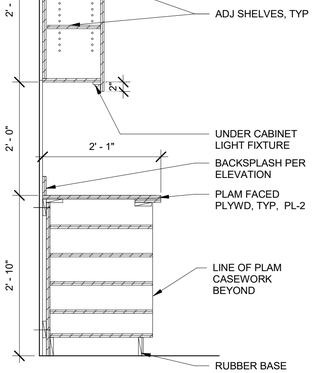
3 STORAGE CABINET
3/4" = 1'-0"



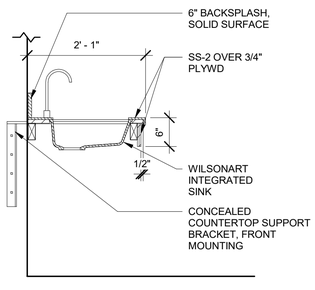
4 MAIL
3/4" = 1'-0"



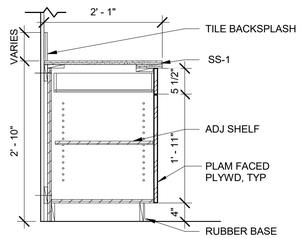
5 RECEPTION 103 CASEWORK
3/4" = 1'-0"



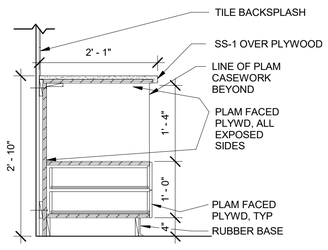
6 OPEN OFFICE 104 CASEWORK
3/4" = 1'-0"



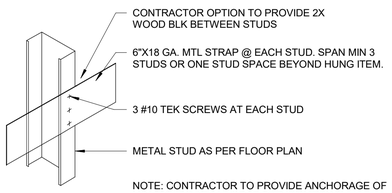
7 RESTROOM SINK DETAIL
3/4" = 1'-0"



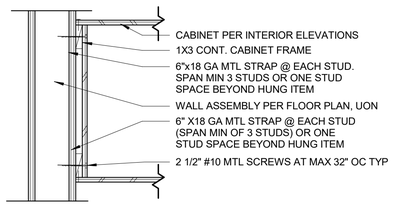
8 LOWER CASEWORK
3/4" = 1'-0"



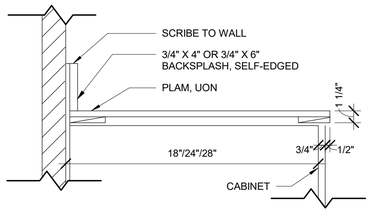
9 MICROWAVE
3/4" = 1'-0"



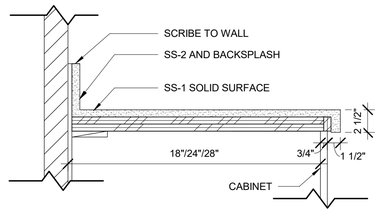
10 BACKING PLATE TYP AT CABS
1 1/2" = 1'-0"



11 CABINET ANCHORAGE
1 1/2" = 1'-0"



12 COUNTERTOP DETAIL
1 1/2" = 1'-0"



13 SS COUNTERTOP DTL
1 1/2" = 1'-0"

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STATE OF OREGON

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AMITY SCHOOL DISTRICT
DISTRICT OFFICE BUILDING
503 OAK AVENUE
AMITY, OREGON 97101

consultants:

revisions:

#	Description	Date

date: 10-03-25
project: 01825
drawn by: SS
checked by: AMF

CASEWORK DETAILS

sheet: A-504
of:

Attachment A

ROOM FINISH SCHEDULE

WT	DESCRIPTION	MANUFACTURER	STYLE	COLOR/FINISH	SIZE	GRID/GROUT/ NOTES	NOTES
FLOORING							
CPT-1	CARPET TILE	TARKETT POWERBOND	THREAD CRAFT 11569	SMOLDER 60804	6' WIDE		-
LVT-1	VINYL FLOORING	TARKETT	PCFH FRENCH OAK	SAVOY 4613/ EMBOSS RG	6"X36"		-
SC	SEALED						
SV-1	SHEET VINYL	TARKETT IQ OPTIMA		DARK GREY 866	6'-6" WIDE, 2MM	FORMERLY CATHEDRAL WALL 200	
WO	WALK OFF CARPET	CONNEXUS	SUPER NOP 52	CHARCOAL			-
PAINT							
P-1	PAINT	SHERWIN WILLIAMS	SEMI-GLOSS	SW 7014 ELDER WHITE	-	-	FIELD COLOR/ CEILINGS
P-2	PAINT	SHERWIN WILLIAMS	SEMI-GLOSS	SW 7044 AMAZING GRAY	-		ACCENT
P-3	PAINT	CUSTOM	SEMI-GLOSS	AMITY BLUE R:4 G:66 B:191	-		ACCENT
P-4	PAINT	SHERWIN WILLIAMS	SEMI-GLOSS	SW 7014 ELDER WHITE	-		EXPOXY PAINT
RUBBER BASE							
RB-1	RUBBER BASE	TARKETT		BLACK 40 SATIN	4"	-	
SOLID SURFACE							
SS-1	QUARTZ	WILSONART QUARTZ		LORAINE Q1012	3CM THICK	-	LUNCH ROOM
SS-2	SOLID SURFACE	WILSONART QUARTZ		GREY BEOLA	3CM THICK	WITH SOLID SURFACE ACRYLIC SINK IN DESIGNER WHITE	TOILET ROOMS
SURFACES							
PL-1	LAMINATE	WILSONART	-	LIMBER MAPLE 10734-60	-	-	VERTICAL FACE CABNETRY
PL-2	LAMINATE	WILSONART	-	HANDSPUN DOVE 5034-38	-	-	HORIZONTAL SURFACES UON
TILE							
T-1	WALL TILE	ARIZONA TILE	SUBWAY TILE	ARTE WHITE GLOSSY	3"X12"		WALL TILE/ BACKSPLASH - RUNNING BOND
TRANSITIONS							
TS-1	TRANSITION	SCHLUTER	JOLLY	ALUMINUM	-		EXPOSED EDGES OF BACKSPLASH
WALL PROTECTION							
CG-1	CORNER GUARDS	-		STAINLESS STEEL	-		
W-1	PLYWOOD UP TO 8'-4"						ELECTRICAL ROOM

FINISH LEGEND

FINISH TAG

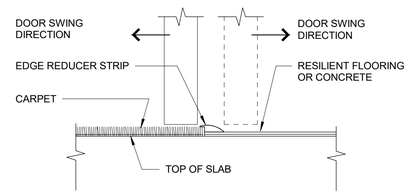
FLOOR DIRECTION

GENERAL NOTES

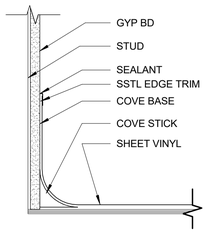
1. ALL WALLS TO BE PAINTED P-1, UON.
2. INSTALL RUBBER REDUCER STRIP AT ALL CARPET TO RESILIENT FLOORING TRANSITIONS.
3. ALL WALLS TO RECEIVE BASE RB-1, UON.
4. REFER TO A-202 FOR INTERIOR ELEVATIONS & LARGE SCALE PLANS.
5. FLOORING TO RUN BELOW ALL CASEWORK/ COUNTERTOPS THAT ARE OPEN BELOW.

CONSTRUCTION NOTES

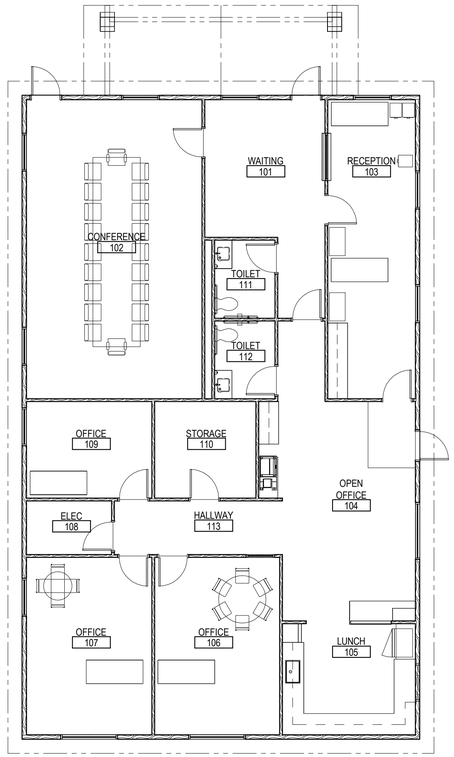
1. PROVIDE "WARRIOR HEAD" GRAPHIC TO THIS WALL. COORDINATE W/ OWNER FOR DESIGN GRAPHICS.
2. PROVIDE AMITY "A" GRAPHIC ON THIS WALL, COORDINATE W/ OWNER FOR DESIGN GRAPHICS.



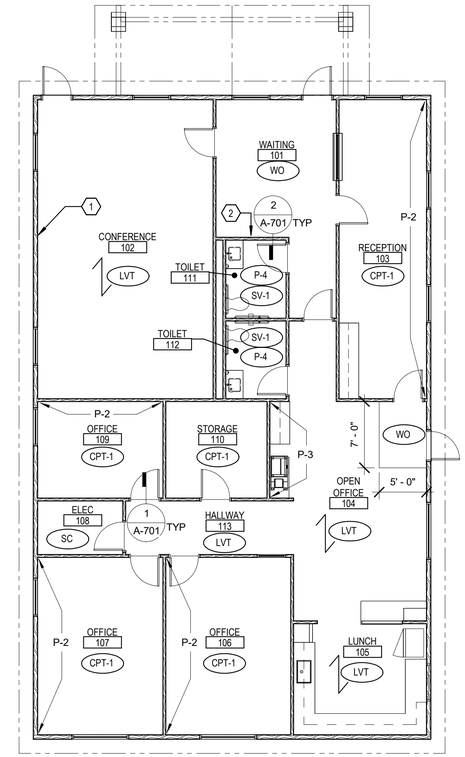
1 FLOOR TRANSITION TYP
3" = 1'-0"



2 COVE BASE DETAIL
3" = 1'-0"



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



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

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revisions:

#	Description	Date

date: 10-03-25
project: 01825
drawn by: SS
checked by: AMF

FINISH PLAN

sheet: A-701
of:

AMITY SD OFFICE BUILDING
HVAC, PLUMBING

WORK SCOPE

THE WORK UNDER THIS CONTRACT IS TO PROVIDE THE LABOR, MATERIAL, AND EQUIPMENT FOR THE COMPLETE INSTALLATION OF THE HVAC AND PLUMBING SYSTEMS DESCRIBED. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION, STARTUP, AND OPERATIONAL CHECKOUT FOR A FULLY FUNCTIONAL SYSTEM.

THE DRAWINGS AND WORK SCOPE ARE NOT INTENDED TO BE COMPREHENSIVE OF ALL WORK TO BE DONE UNDER THIS CONTRACT. SPECIFICATIONS, DRAWINGS, AND WORK SCOPE MUST BE USED IN THEIR ENTIRETY TO DEVELOP FULL UNDERSTANDING OF THE WORK TO BE DONE UNDER THIS CONTRACT.

CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMPONENTS REQUIRED FOR COMPLETE MECHANICAL AND PLUMBING SYSTEMS INCLUDING BUT NOT LIMITED TO MISCELLANEOUS FITTINGS, BRACKETS, SUPPORTS, MECHANICAL PARTS, CONTROLS, WIRE & CONDUIT (NOT INCLUDED IN DIVISION 26), RELAYS, END SWITCHES, TRANSFORMERS, DISCONNECTS, CONTROL ENCLOSURES, ETC. COMPLETE SYSTEMS SHALL MEET ALL REQUIREMENTS IN CONSTRUCTION DOCUMENTS, LOCAL AND STATE CODES, AND MANUFACTURERS' INSTALLATION INSTRUCTIONS. BRING ANY CONFLICTING REQUIREMENTS TO THE ENGINEER'S ATTENTION FOR RESOLUTION BEFORE PURCHASING OR INSTALLING SYSTEM.

CONTRACTOR SHALL PROVIDE AND INSTALL A CODE COMPLIANT ACTIVE SOIL DEPRESSURIZATION SYSTEM.

CONTRACT WORK SHALL INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING MECHANICAL SYSTEMS: THE INSTALLATION OF SPLIT SYSTEM HEAT PUMPS, THE INSTALLATION OF A ENERGY RECOVERY VENTILATION SYSTEM TO PROVIDE CODE REQUIRED OUTSIDE AIR.

CONTRACT WORK SHALL INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING PLUMBING SYSTEMS: RESTROOMS, DOMESTIC WATER SUPPLY FOR A REFRIGERATOR ICE MAKER, DOMESTIC WATER SUPPLY FOR A RESIDENTIAL TYPE DISHWASHER, ROOF DRAINS, MISCELLANEOUS HOSE BIBS, CONDENSATE DRAINS, ROOF DRAIN DOWNSPOUTS, ETC.

WORK COVERED BY CONTRACT DOCUMENTS

THESE DRAWINGS AND THE SPECIFICATIONS, FOR THE AMITY SCHOOL DISTRICT OFFICE, SUMMARIZE THE WORK. THE REQUIREMENTS OF BOTH MUST BE MET UNDER THIS CONTRACT. THE WORK IS LISTED BY SPECIFICATION DIVISION AND IS SUMMARIZED BELOW. REFER TO BOTH PLANS AND SPECIFICATIONS FOR A COMPLETE DESCRIPTION OF THE WORK.

DIVISION 22 - PLUMBING

SECTION 22 01 00 - BASIC PLUMBING MATERIALS AND METHODS

COORDINATE THE VARIOUS TRADES; APPLY AND PAY FOR PERMITS; SUPPLY SUBMITTALS, O&M MANUALS, AS-BUILT DOCUMENTATION; AND COORDINATE SAFETY.

SECTION 22 05 00 - PLUMBING SPECIALTIES

FURNISH AND INSTALL PIPE HANGERS, SUPPORTS, IDENTIFICATION, AND VALVES.

SECTION 22 07 00 - INSULATION - PLUMBING

INSULATE THE FOLLOWING: HOT WATER PIPING, CONDENSATE PIPING, INTERIOR DOWNSPOUTS, AND COLD-WATER PIPING. INSULATION OF INTERIOR DOWNSPOUTS, COLD WATER, AND CONDENSATE PIPE SHALL INCLUDE INSULATION AND CONTINUOUS VAPOR BARRIER FOR ALL CLAMPS, FITTINGS, VALVES, CONNECTIONS, AND UNIONS.

22 08 00 - PLUMBING - DOMESTIC

FURNISH AND INSTALL DOMESTIC COLD AND HOT WATER SYSTEM, SANITARY, ROOF DRAINS, AND VENTS.

DIVISION 23 - HEATING, VENTILATION, & AIR CONDITIONING

SECTION 23 01 00 - BASIC MECHANICAL MATERIALS & METHODS

COORDINATE THE VARIOUS TRADES; APPLY AND PAY FOR PERMITS; SUPPLY SUBMITTALS, O&M MANUALS, AS-BUILT DOCUMENTATION; AND COORDINATE SAFETY.

SECTION 23 05 00 - HEATING, VENTILATION, & AIR CONDITIONING (HVAC)

INSTALL DEDICATED OUTSIDE AIR DAMPERS. INSTALL HEAT PUMP UNITS ON AN ELEVATED FRAMES TO PREVENT ICE DAMMING. INSTALL HEAT PUMPS AND FAN COILS. INSTALL ENERGY RECOVERY VENTILATION SYSTEM INCLUDING ELECTRIC SUPPLY AIR DUCT HEATER.

SECTION 23 05 93 - TESTING AND BALANCING

PROVIDE TEST AND BALANCE FOR THE ENERGY RECOVERY VENTILATION OSA SUPPLY AND EXHAUST DUCTING SYSTEMS.

SECTION 23 09 00 INSTRUMENTATION AND CONTROLS

PROVIDE AND INSTALL THE SPLIT SYSTEM HEAT PUMP FACTORY SUPPLIED CONTROL SYSTEMS. PROVIDE AND INSTALL AN ON/OFF CONTROL SWITCH AND TIME CLOCK IN THE ELECTRICAL ROOM TO CONTROL AND SCHEDULE THE ENERGY RECOVERY VENTILATOR OPERATION. THE ENERGY RECOVERY VENTILATOR SHALL HAVE INTERNAL ISOLATION DAMPERS THAT AUTOMATICALLY OPEN WHEN THE ENERGY RECOVERY VENTILATOR IS RUNNING AND SHUT WHEN THE ENERGY RECOVERY VENTILATOR IS NOT RUNNING. THE ENERGY RECOVERY VENTILATOR SHALL HAVE VARIABLE SPEED SUPPLY AND EXHAUST FANS THAT ARE SET BY TAB TO PROVIDE THE OUTSIDE AIR FLOW AND EXHAUST AIR FLOW SPECIFIED IN THE CONSTRUCTION DOCUMENTS.

GENERAL CONSTRUCTION NOTES

GENERAL

ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND REGULATIONS AS ENFORCED BY THE STATE OF OREGON AND THE LOCAL CODE AUTHORITY.

INSTALL ALL WORK PARALLEL AND PLUMB TO BUILDING LINES.

ALL DUCTWORK, PIPING, AND EQUIPMENT SHALL BE INSTALLED IN A MANNER AND IN LOCATIONS TO AVOID OBSTRUCTION, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR.

REFRIGERANT LINES SHALL BE SUPPORTED BY FOAMING THE REFRIGERANT LINE INTO A PVC PIPE SLEEVE AND CLAMPING THE SLEEVE TO STRUCTURE OR A TRAPEZE HANGER. REFRIGERANT LINE SETS MAY SHARE A PVC PIPE SLEEVE. THE PVC SLEEVE SHALL BE SIZED LARGE ENOUGH NOT TO COMPRESS THE REFRIGERANT PIPE INSULATION AND ALLOW ROOM TO FOAM THE REFRIGERANT LINE IN PLACE ON ALL SIDES. LABEL ALL PIPE SLEEVES WITH SHARPIE MARKER TO IDENTIFY THE FCU OR BC SERVED AND IDENTIFY THE ASSOCIATED HP UNIT IF MORE THAN ONE HP IS INSTALLED.

NO ATTEMPT HAS BEEN MADE TO SHOW ALL PIPE SUPPORTS, LOCATIONS, AND EXPANSION JOINTS. REFER TO SPECIFICATIONS FOR THIS.

ALL EXPOSED HVAC DIFFUSERS, GRILLES, DUCTING, AND MISCELLANEOUS COMPONENTS SHALL BE PAINTED WHITE TO MATCH WALLS AND CEILING. COORDINATE COLOR CHOICE WITH ARCHITECT. IN AREAS WHERE CEILING OR WALLS ARE NOT WHITE, COORDINATE COLOR CHOICE WITH ARCHITECT.

MECHANICAL HVAC

TO INSURE THE STRUCTURAL INTEGRITY OF THE BUILDING, ALL CUTTING REQUIRED FOR THE INSTALLATION OF DUCTS, PIPING, AND CONDUIT IS TO BE CLEARED THROUGH THE ENGINEER PRIOR TO START OF WORK.

ELECTRICAL SHALL PROVIDE CONVENIENCE OUTLET WITHIN 25 FEET OF ALL HVAC EQUIPMENT FOR MAINTENANCE SERVICE. CONTRACTOR SHALL CONFIRM ELECTRIC OUTLET LOCATIONS AND COORDINATE WITH ELECTRICAL CONTRACTOR.

DUCTWORK

PROVIDE ESSENTIALLY AIR TIGHT SHEET METAL DUCTWORK. DUCTWORK SHALL CONFORM TO ASHRAE, LATEST EDITION, AND CONSTRUCTED PER SMACNA MANUAL OF HVAC DUCT CONSTRUCTION STANDARDS AND IN ACCORDANCE WITH INTERNATIONAL MECHANICAL CODE, LATEST EDITION.

ALL FIELD DUCTING JOINTS AND SEAMS SHALL BE ESSENTIALLY AIR TIGHT, ADJUSTABLE DUCT FITTINGS ARE NOT ALLOWED. ALL FIELD JOINTS MUST HAVE ENGINEERED MECHANICAL FASTENERS OR SHALL BE SECURED WITH A MINIMUM OF 3 EQUALLY SPACED RIVETS OR SCREWS. FIELD JOINTS MUST BE GASKETED OR SEALED WITH MASTIC. ALL DUCTING SHALL BE SEALED TO SMACNA SEAL CLASS A.

DUCT SIZES LISTED ARE NET INSIDE DIMENSIONS. ALLOW FOR SHEET METAL AND INSULATION THICKNESS.

ALL DUCTWORK CROSSING OR TERMINATING AT A FIRE RATED BARRIER SHALL BE CONSTRUCTED OF STAINLESS OR GALVANIZED SHEET STEEL WITH A MINIMUM METAL THICKNESS OF 26 GAGE AND RUN CONTINUOUSLY FROM THE AIRHANDLER OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS.

REFER TO SPECIFICATION FOR DUCTWORK QUALITY REQUIREMENTS.

DUCTWORK SHALL COMPLY WITH OREGON STRUCTURAL SPECIALTY CODE 1613.1.

SHEET METAL TO COMPLY WITH ASTM A-525, WITH 1-1/4 OZ COATING AND BEAR STAMP OF MANUFACTURER.

NO INTERIOR INSULATION IN DUCTWORK IS PERMITTED UNLESS SPECIFICALLY CALLED OUT ON PLANS FOR NOISE DEADENING.

FLEX DUCT IS ALLOWED FOR CONNECTION TO CEILING MOUNTED GRILLES AND DIFFUSERS IN PUSH UP GRID CEILINGS ONLY. DUCTING CONNECTIONS ABOVE HARD LID CEILINGS OR INACCESSIBLE SPACES SHALL BE HARD DUCTED.

DUCT ACCESSORIES

TURNING VANES SHALL BE AIRFOIL, DOUBLE THICKNESS TYPE. TURNING VANES ARE REQUIRED WHETHER SHOWN OR NOT FOR ALL DUCT ELBOW ANGLES GREATER THAN 45 DEGREES.

VOLUME DAMPERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA DETAILS FOR BUTTERFLY-TYPE DAMPERS WITH DURO-DYNE QUADLINE DAMPER QUADRANTS. DAMPER SHAFTS SHALL HAVE SEALS.

DUCT CONNECTORS SHALL BE IMC, SMACNA, OR APPROVED MANUFACTURED JOINING SYSTEM.

FLEXIBLE DUCT CONNECTORS SHALL BE IMPREGNATED DUROPRENE GLASS FABRIC, LOW SMOKE DEVELOPMENT. PROVIDE WITH THE NECESSARY ANGLE, STRAPS, BOLTS, OR CLIPS TO SECURE THE MATERIAL TO THE EQUIPMENT AND DUCT.

BALANCING DAMPERS

PROVIDE BALANCING DAMPERS FOR EACH SUPPLY AND RETURN OUTLET.

BALANCING DAMPERS TO BE QUADRANT DAMPER INSTALLED IN DUCTWORK WITH LOCKING LEVER.

OBD GRILL DAMPERS NOT ALLOWED UNLESS CALLED OUT OR APPROVED BY ENGINEER.

WHERE BALANCING DAMPERS ARE NOT DIRECTLY ACCESSIBLE FOR ADJUSTMENT, FROM EITHER OCCUPIED SPACE OR DESIGNATED MECHANICAL ROOMS, PROVIDE REMOTE OPERATORS TO CEILING BOX IN OCCUPIED SPACE SERVED OR TO AN EASILY ACCESSIBLE SPACE IN A DESIGNATED MECHANICAL ROOM. REMOTELY OPERATED ELECTRIC BALANCING DAMPERS ARE ALSO APPROVED. LEAVE DAMPER ELECTRICAL WIRES SECURED IN A VISIBLE LOCATION ABOVE CEILING. LABEL DAMPER OPERATOR AS SUPPLY, RETURN, OR EXHAUST, AND INCLUDE ROOM SERVED. WHERE MULTIPLE ELECTRIC BALANCING DAMPERS ARE ACCESSED FROM THE SAME LOCATION, PROVIDE A DRAWING THAT IDENTIFIES WHICH BRANCH IS CONTROLLED BY WHICH CONTROL WIRE.

GRILLES AND DIFFUSERS

CEILING SUPPLY AIR DIFFUSERS SHALL BE PERFORATED PLATE STYLE WITH MODULAR CORE DESIGN FOR FIELD ADJUSTABLE THROW PATTERN.

CEILING SUPPLY AIR DIFFUSERS SHALL BE DESIGNED AS DROP IN STYLE FOR BOTH GRID AND HARD LID CEILINGS. PROVIDE AND INSTALL BLOCKING AND SURFACE MOUNT ADAPTER FRAME FOR HARD LID CEILINGS. CONFIRM DIFFUSER STYLE MATCHES INSTALLATION, GRID, AND CEILING TILE STYLE BEFORE ORDERING.

CEILING RETURN AIR GRILLES SHALL BE A PERFORATED PLATE STYLE AND FINISH SHALL MATCH THE SUPPLY AIR GRILLES.

CEILING RETURN GRILLES SHALL BE DESIGNED AS DROP IN STYLE FOR BOTH GRID AND HARD LID CEILINGS. PROVIDE AND INSTALL BLOCKING AND SURFACE MOUNT ADAPTER FRAME FOR HARD LID CEILINGS. CONFIRM GRILLE STYLE MATCHES INSTALLATION, GRID, AND CEILING TILE STYLE BEFORE ORDERING.

PLUMBING

NO ATTEMPT HAS BEEN MADE TO SHOW ALL PIPE SUPPORTS, LOCATIONS AND EXPANSION JOINTS. REFER TO SPECIFICATIONS FOR THIS.

PROVIDE ANGLE STOPS OR SHUT-OFF VALVES AND UNIONS AT ALL EQUIPMENT AND FIXTURE CONNECTIONS.

ALL SUPPLY /RETURN LINES SHALL BE CLEARLY MARKED WITH FUNCTION AND FLOW DIRECTION.

SEAL ALL PIPING AT WALL AND FLOOR PENETRATIONS WITH APPROVED SEALANT.

ALL PIPING SHALL COMPLY WITH LOCAL CODES AND CONFORM TO SEISMIC REQUIREMENTS WHERE SEISMIC BRACING IS REQUIRED. A RUN OF PIPE SHALL HAVE A MINIMUM OF TWO TRAVERSE BRACES AND ONE LONGITUDINAL BRACE. A RUN IS DEFINED AS A LENGTH OF PIPE WITHOUT ANY CHANGE IN DIRECTION. BRANCH LINES MAY NOT BE USED TO BRACE MAIN LINES.

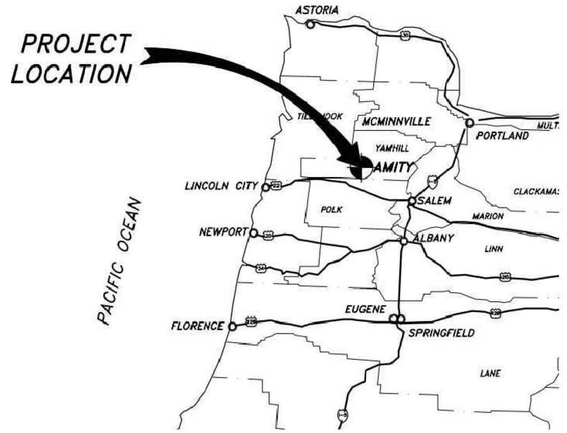
CONTROLS

INSTALLATION OF HVAC CONTROLS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.

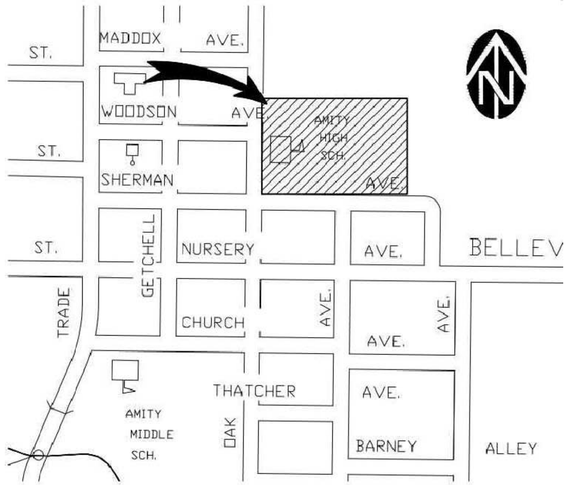
CONTROLS SHALL BE PACKAGED EQUIPMENT CONTROLS. EACH FAN COIL SHALL HAVE A WALL MOUNTED THERMOSTAT. EACH FAN COIL SHALL BE CONFIGURED FOR TEMPERATURE CONTROL BASED ON THE SPACE TEMPERATURE SENSOR IN THE WALL MOUNTED THERMOSTAT.

THE ENERGY RECOVERY VENTILATOR SHALL BE CONTROLLED BY A CONTRACTOR PROVIDED AND INSTALLED TIMECLOCK AND EQUIPMENT ON/OFF SWITCH MOUNTED IN THE ELECTRICAL ROOM.

LOCATION MAP



VICINITY MAP



DRAWING INDEX

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DECEMBER 31, 2026
ALAN LOUIS WRIGHT
EXPIRATION DATE JUNE 30, 2026

RACI Engineering

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raci-engineering.com

revisions:

	Description	Date

date: 10-03-25
project: 19
drawn by: YD
checked by: AW

COVER SHEET

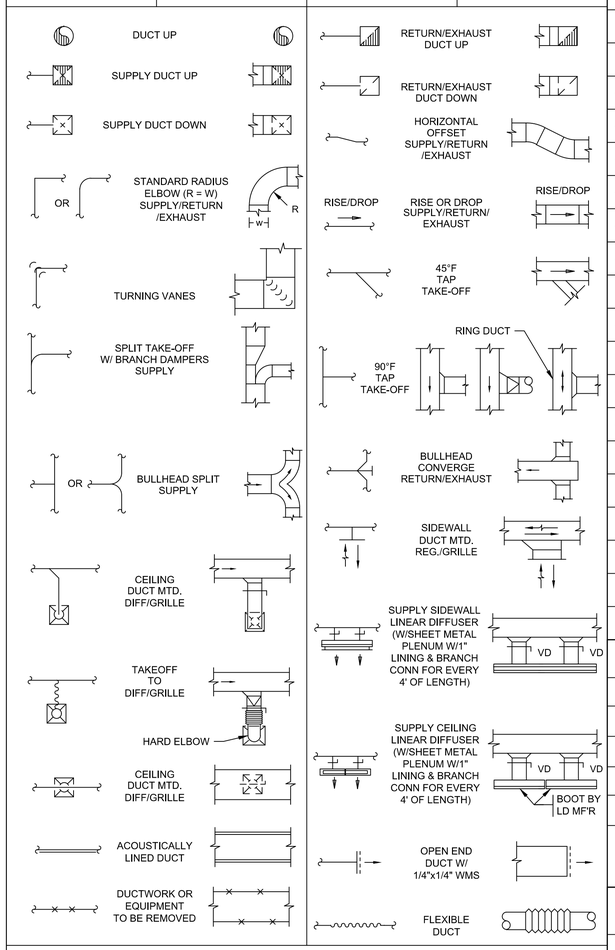
sheet: **MP-001**

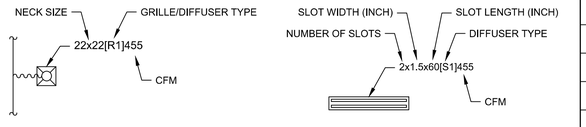
of:

Attachment A

DUCTWORK SYMBOLS

SINGLE LINE	DOUBLE LINE	SINGLE LINE	DOUBLE LINE





LEGEND AND ABBREVIATIONS

SYMBOL OR ABBREVIATION	DEFINITION	SYMBOL OR ABBREVIATION	DEFINITION
--CD--------	CONDENSATE DRAIN	COTG	CLEANOUT TO GRADE
— R -—---—	REFRIGERANT PIPING (LIQUID / GAS)	DS	DOWN SPOUT
EA	EXHAUST AIR	ET	EXPANSION TANK
OA	OUTSIDE AIR	FCO	FLOOR CLEANOUT
RA	RETURN AIR	FD	FLOOR DRAIN
SA	SUPPLY AIR	HB	HOSE BIBB
—SS—	SEWER PIPE ABOVE GRADE	L	LAVATORY
– –SS– – – – –	SEWER PIPE BELOW GRADE	S	SINK
– – –V– – – – – –	VENT	SH	SHOWER HEAD
—CW—-—-—	DOMESTIC COLD WATER	TP	TRAP PRIMER
—HW—-—-—	DOMESTIC HOT WATER	WC	WATER CLOSET
—SD—-—-—	STORM DRAIN ABOVE GRADE	WH	WATER HEATER
– –SD– – – – –	STORM DRAIN ABOVE GRADE	WCO	WALL CLEANOUT
—~—	EXTENSION & CONTINUATION		
O—	PIPE UP		
G—	PIPE DOWN		
	HOSE BIBB		
TSW	TIMER SWITCH		
	POINT OF CONNECTION TO EXISTING		

MINIMUM DUCT INSULATION THICKNESS

DUCT TYPE	LOCATION	R-VALUE
SUPPLY / RETURN	EXTERIOR (1)	R-12
SUPPLY / RETURN	UNCONDITIONED SPACE AND BURIED	R-6
SUPPLY / RETURN	INDIRECTLY CONDITIONED SPACE (2, 3)	R-1.9
OUTSIDE AIR	WITHIN CONDITIONED SPACE (NOT CONSIDERED PART OF THE BUILDING ENVELOPE)	R-12 (DAMPER AT ENVELOPE PENETRATION)

NOTES:
1. INCLUDES ATTICS ABOVE INSULATED CEILINGS, PARKING GARAGES AND CRAWLSPACES.
2. INCLUDES RETURN AIR PLENUMS WITH OR WITHOUT EXPOSED ROOFS ABOVE.
3. RETURN DUCTS IN THIS DUCT LOCATION DO NOT REQUIRE INSULATION.

MINIMUM PIPE INSULATION THICKNESS

FLUID OPERATING TEMPERATURE RANGE AND USAGE, °F	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE, INCH				
	CONDUCTIVITY, BTU·IN/(H·FT²·°F)	MEAN RATING TEMPERATURE, °F	<1	1 TO <1.5	1.5 TO <4	4 TO <8	>8
> 350	0.32 - 0.34	250	4.5	5.0	5.0	5.0	5.0
251 - 350	0.29 - 0.32	200	3.0	4.0	4.5	4.5	4.5
201 - 250	0.27 - 0.30	150	2.5	2.5	2.5	3.0	3.0
141 - 200	0.25 - 0.29	125	1.5	1.5	2.0	2.0	2.0
105 - 140	0.21 - 0.28	100	1.0	1.0	1.5	1.5	1.5
40 - 104	0.21 - 0.27	75	0.5	0.5	1.0	1.0	1.0
< 40	0.20 - 0.26	50	0.5	1.0	1.0	1.0	1.5

ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
AMPS	AMPERAGE
APD	AIR PRESSURE DROP, INCH
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER MINUTE
EA	EXHAUST AIR
EF	EXHAUST FAN
EDB	ENTERING DRY BULB
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB
EWT	ENTERING WATER
FV	FACE VELOCITY
GPM	GALLONS PER MINUTE
HP	HORSE POWER
KW	KILOWATTS
L	LOUVER
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MAU	MAKEUP AIR UNIT
MIN	MINIMUM
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MD	MOTORIZED DAMPER
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
OA	OUTSIDE AIR
OS	OCCUPANCY SENSOR
PRV	PRESSURE RELIEF VALVE
RA	RETURN AIR
RET	RETURN
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SUP	SUPPLY
TON	~12,000 BTUH (3.5kW) COOLING CAPACITY
VD	VOLUME DAMPER
VTR	VENT THROUGH ROOF
WPD	WATER PRESSURE DROP, INCH

(E) EXISTING

(N) NEW

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EXPIRATION DATE JUNE 30, 2026

RACI Engineering

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raci-engineering.com

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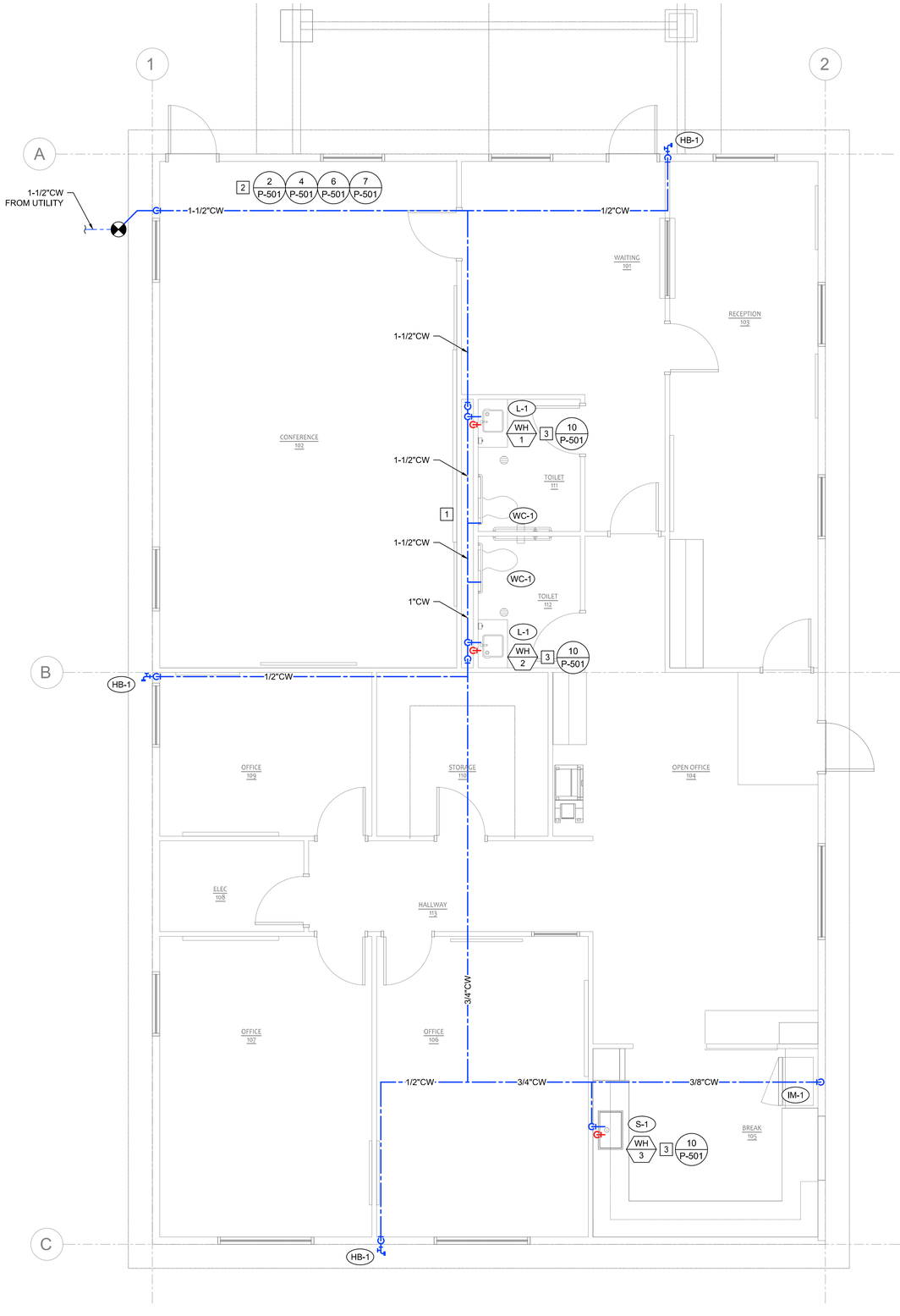
#	Description	Date

date: 10-03-25
project: 19
drawn by: YD
checked by: AW

SYMBOLS, LEGEND, ABBREVIATIONS

sheet:
MP-002
of:

Attachment A



1 **DOMESTIC WATER PLUMBING PLAN**

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

0 2 4 8 16

NORTH

GENERAL NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODES IN ACCORDANCE WITH THE CURRENT UNIFORM PLUMBING CODE.
3. ALL NEW MATERIAL, METHODS, AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE BUILDING STANDARDS AS APPROVED BY THE OWNER.
4. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
5. COORDINATE WITH OTHER TRADES EXACT LOCATION OF PIPING WITH EQUIPMENT, LIGHTING, DUCTING, ETC.
6. COORDINATE FINAL EQUIPMENT CONNECTION LOCATIONS WITH FINISH PLUMBER.
7. COORDINATE FORMING OF FLOOR CONSTRUCTION TO RECEIVE DRAINS TO REQUIRED INVERT ELEVATIONS.
8. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS, BEST PRACTICES, AND WARRANTY.
9. INSULATE ALL COLD AND HOT WATER PIPES AND PROVIDE PIPE IDENTIFICATION AS CALLED OUT IN SPECIFICATIONS.
10. FIRE CAULK ALL FIRE WALL PENETRATIONS.
11. CONTRACTOR TO VERIFY THE LOCATION, INVERT, SIZE, MATERIAL, AND CONDITION OF ALL EXISTING UTILITIES THAT WILL BE AFFECTED BY THE WORK.
12. SLOPE ALL SEWERS 1/4" PER FOOT WHEN POSSIBLE. NO LINES SHALL BE LESS THAN 1/8" PER FOOT.
13. ALL VENT PIPING SHALL BE ABOVE FLOOD RIM LEVEL OF HIGHEST FIXTURE BEFORE CONNECTION TO COMMON VENTS.
14. HORIZONTAL DRAINAGE PIPE SHALL BE PROVIDED WITH A CLEANOUT AT ITS UPPER TERMINAL, AND EACH RUN OF PIPING, THAT IS MORE THEN 100 FEET IN TOTAL DEVELOPED LENGTH. CLEANOUTS SHALL BE PROVIDED IN A DRAINAGE LINE FOR EACH AGGREGATE HORIZONTAL CHANGE OF DIRECTION EXCEEDING 135 DEGREES.
15. COORDINATE EQUIPMENT LABELING AND MARKING OF SERVICE POINT ACCESS WITH OWNER/MAINTENANCE STAFF.
16. SEISMIC BRACING IS REQUIRED ON ALL PLUMBING EQUIPMENT AND PIPE GREATER THAN 20 LBS. SUCH EQUIPMENT AND PIPE MUST HAVE A MINIMUM OF TWO TRANSVERSE BRACES AND ONE LONGITUDINAL BRACE. BRANCH LINES MAY NOT BE USED AS A SUBSTITUTE FOR SEISMIC BRACING.

KEYED NOTES

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND INSTALL FULLY FUNCTIONAL PLUMBING SYSTEM AS SHOWN IN THESE PLANS AND SPECIFICATIONS.
2. ABOVE CEILING IN ATTIC. PROVIDE SERVICE ACCESS VIA ADJACENT ROOM OR ATTIC ACCESS.
3. WATER HEATER UNDER SINK.

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drawn by: YD
checked by: AW

DOMESTIC WATER PLUMBING PLAN

sheet: **P-101**
of:

Attachment A

GENERAL NOTES

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6. COORDINATE FINAL EQUIPMENT CONNECTION LOCATIONS WITH FINISH PLUMBER.
7. COORDINATE FORMING OF FLOOR CONSTRUCTION TO RECEIVE DRAINS TO REQUIRED INVERT ELEVATIONS.
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15. COORDINATE EQUIPMENT LABELING AND MARKING OF SERVICE POINT ACCESS WITH OWNER/MAINTENANCE STAFF.
16. SEISMIC BRACING IS REQUIRED ON ALL PLUMBING EQUIPMENT AND PIPE GREATER THAN 20 LBS. SUCH EQUIPMENT AND PIPE MUST HAVE A MINIMUM OF TWO TRANSVERSE BRACES AND ONE LONGITUDINAL BRACE. BRANCH LINES MAY NOT BE USED AS A SUBSTITUTE FOR SEISMIC BRACING.

KEYED NOTES

1 PROVIDE ALL MATERIALS AND EQUIPMENT AND INSTALL FULLY FUNCTIONAL PLUMBING SYSTEM AS SHOWN IN THESE PLANS AND SPECIFICATIONS.

2 COORDINATE WITH MECHANICAL CONTRACTOR FOR CONDENSATE DRAINS FROM HVAC EQUIPMENT. PROVIDE CONNECTION LOCATION/S TO SANITARY SEWER WITH APPROPRIATE AIR GAP AND TRAP.

1 **SANITARY SEWER AND VENT PLUMBING PLAN**

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

0 2 4 8 16

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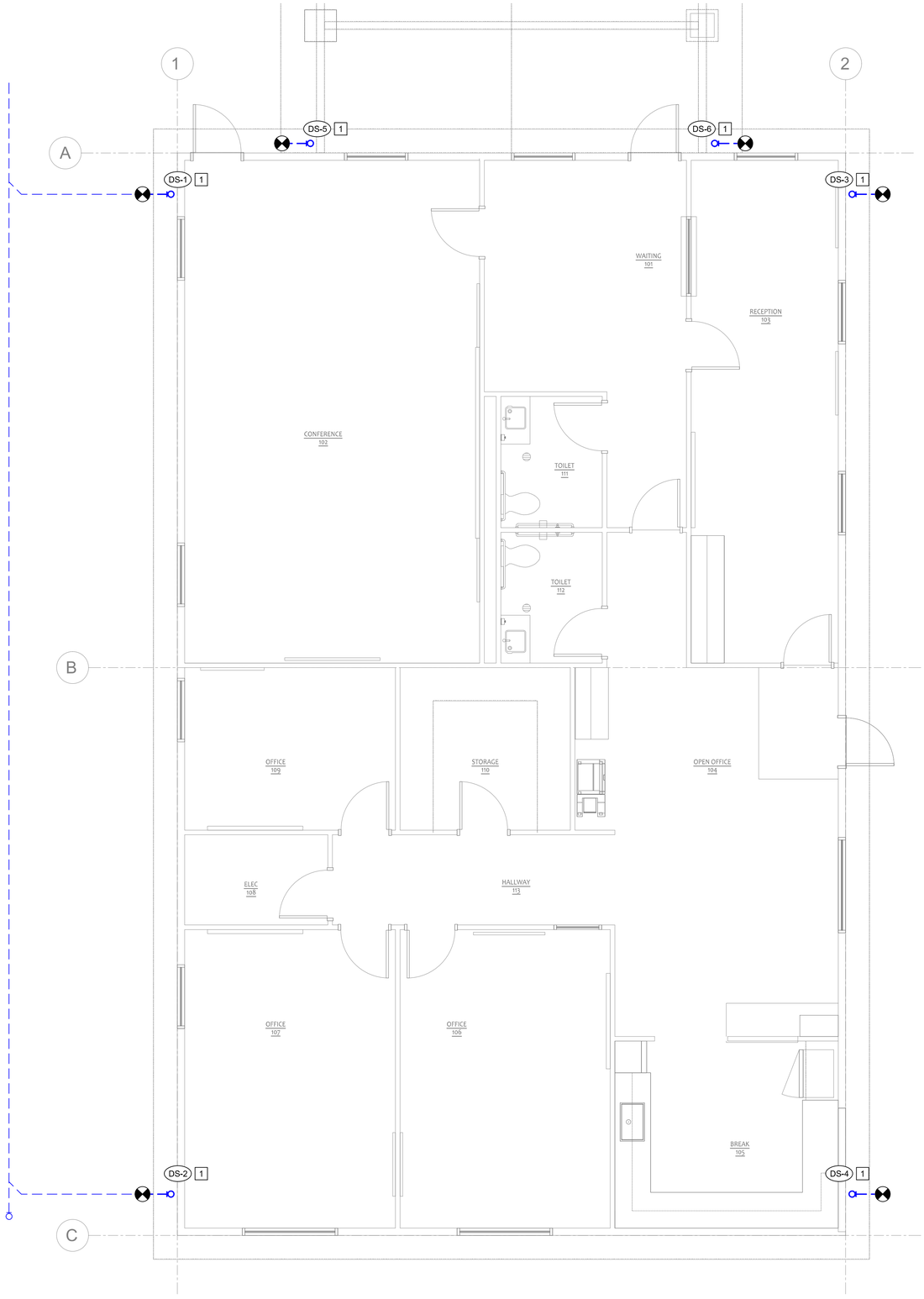
project: 19
drawn by: YD
checked by: AW

SANITARY SEWER AND VENT PLUMBING PLAN

sheet: **P-102**
of:

Attachment A



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KEYED NOTES

[1] PROVIDE ALL MATERIALS AND EQUIPMENT AND INSTALL FULLY FUNCTIONAL STORM DRAINAGE SYSTEM AS SHOWN IN THESE PLANS AND SPECIFICATIONS. COORDINATE WITH CIVIL PLANS FOR CONNECTION POINTS.

STORM DRAIN SCHEDULE

	SF	60min/100yr rainfall		Drain	Max Horizontal
		Inch/Hr	GPM/SF	GPM	Size (In.)	Area Allowed (SF)
DS-1	800	1	0.01	8	2	2,880
DS-2	800	1	0.01	8	2	2,880
DS-3	800	1	0.01	8	2	2,880
DS-4	800	1	0.01	8	2	2,880
DS-5	140	1	0.01	1.4	2	2,880
DS-6	140	1	0.01	1.4	2	2,880

1 **STORM DRAINAGE PLAN**
SCALE: 1/4" = 1'-0"
0 2 4 8 16

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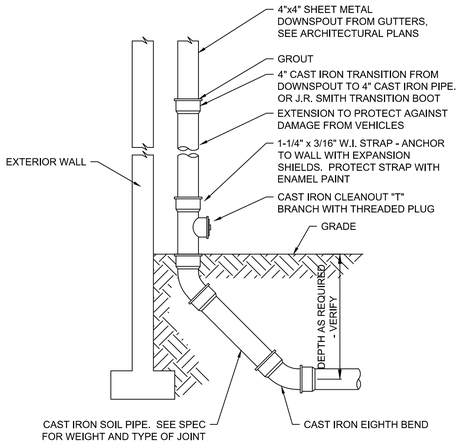
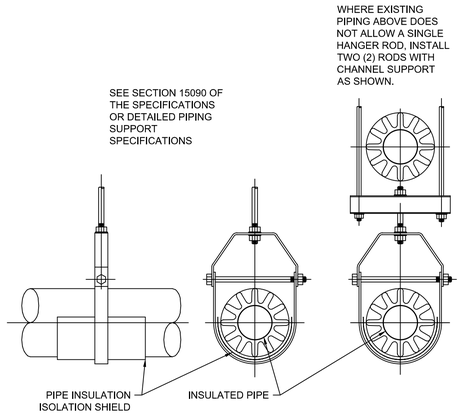
drawn by: YD
checked by: AW

STORM DRAINAGE PLAN

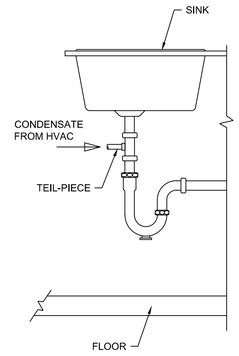
sheet: **P-103**
of:



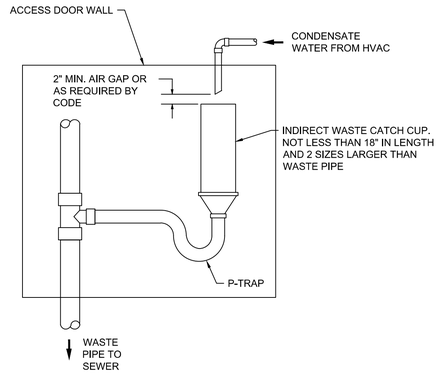
1 **DOWNSPOUT DRAIN DETAIL**
SCALE: NOT TO SCALE



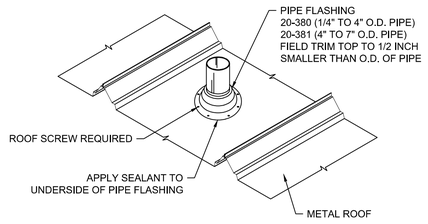
2 **TYPICAL PIPING SUPPORT**
SCALE: NOT TO SCALE



3 **INDIRECT WASTE DETAIL**
SCALE: NOT TO SCALE

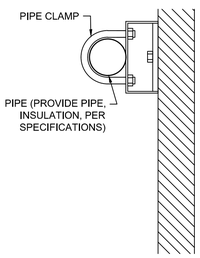


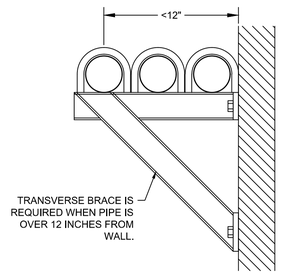
4 **INDIRECT WASTE DETAIL**
SCALE: NOT TO SCALE



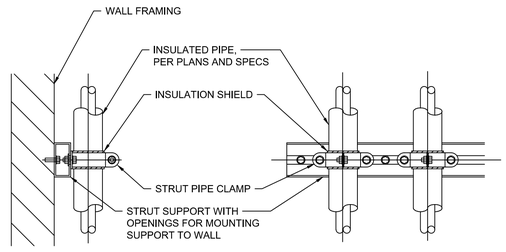
GENERAL NOTES:
1. HOLE IN ROOF PANEL MUST BE 1-1/2 INCHES LARGER THAN PIPE TO ALLOW FOR CONTRACTION/EXPANSION MOVEMENT

5 **ROOF VENT PENETRATION DETAIL (VTR)**
SCALE: NOT TO SCALE





6 **WALL MOUNT PIPE SUPPORT DETAIL**
SCALE: NOT TO SCALE



7 **PIPING SUPPORT DETAIL**
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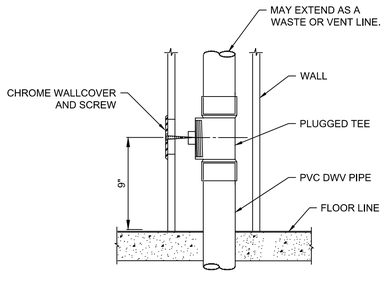

8 **WALL CLEAN-OUT DETAIL**
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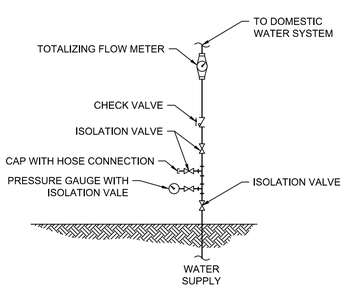
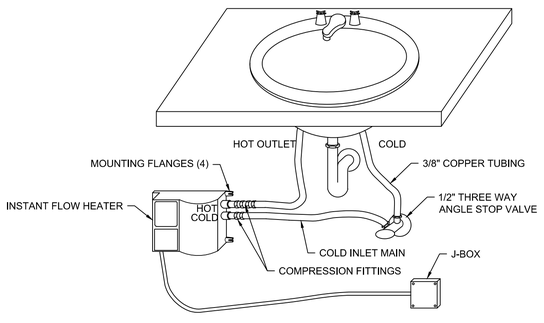


9 **WATER RISER SCHEMATIC**
SCALE: NOT TO SCALE



10 **INSTANT ELECTRICAL WATER HEATER**
SCALE: NOT TO SCALE

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revisions:

#	Description	Date

date: 10-03-25
project: 19
drawn by: YD
checked by: AW

PLUMBING DETAILS

sheet: P-501
of:

Design Loads

* Denotes Flush-O-Meter Valve

Mark	Fixture	Qnty	Water Supply Fixture Units		Drainage Fixture Units	
			Each	Total	Each	Total
WC- 1	Water Closet - ADA - wall mount	2	*	70	4	8
L- 1	Lavatory counter mount	2	1	2	2	4
S- 1	Sink double bowl	1	1.5	1.5	2	2
HB- 1	Hose Bibb	3	2.5	7.5	-	-
IM- 1	Ice Maker	1	2	2	-	-
	Totals			83		14

Plumbing Schedule

Mark	Fixture	Connection Sizes				Remarks
		CW	HW	W	V	
WC- 1	Water Closet - ADA - wall mount	1"	-	4"	2"	TOTO CT708 w/ SC534 & Siphon Jet valve
L- 1	Lavatory counter mount	1/2"	1/2"	1 1/2"	1 1/4"	PER ARCH. w/ ZURN Z81000-7M (1GPM)
S- 1	Sink double bowl	3/4"	3/4"	2"	1 1/2"	KOHLER K-5409 w/ K-24982
HB- 1	Hose Bibb	3/4"	-	-	-	WOODFORD MB67 w/ Tee Key
IM- 1	Ice Maker	1/2"	-	FS	-	TBD

WATER HEATERS SCHEDULE

Equipment	Model #	GPM	Input			Pipe Size *
			V/Ph/Hz	kW	AMPS	
WH-01	CRONOMITE CMI-20L/208*	1	208/1/60	4.16	20	1/2
WH-02	CRONOMITE CMI-20L/208*	1	208/1/60	4.16	20	1/2
WH-03	CRONOMITE R-68L/208	1.5	208/1/60	14.15	68	3/4
Total				22.47	108	

*INTEGRAL ASSE 1070 THERMOSTATIC MIXING VALVE

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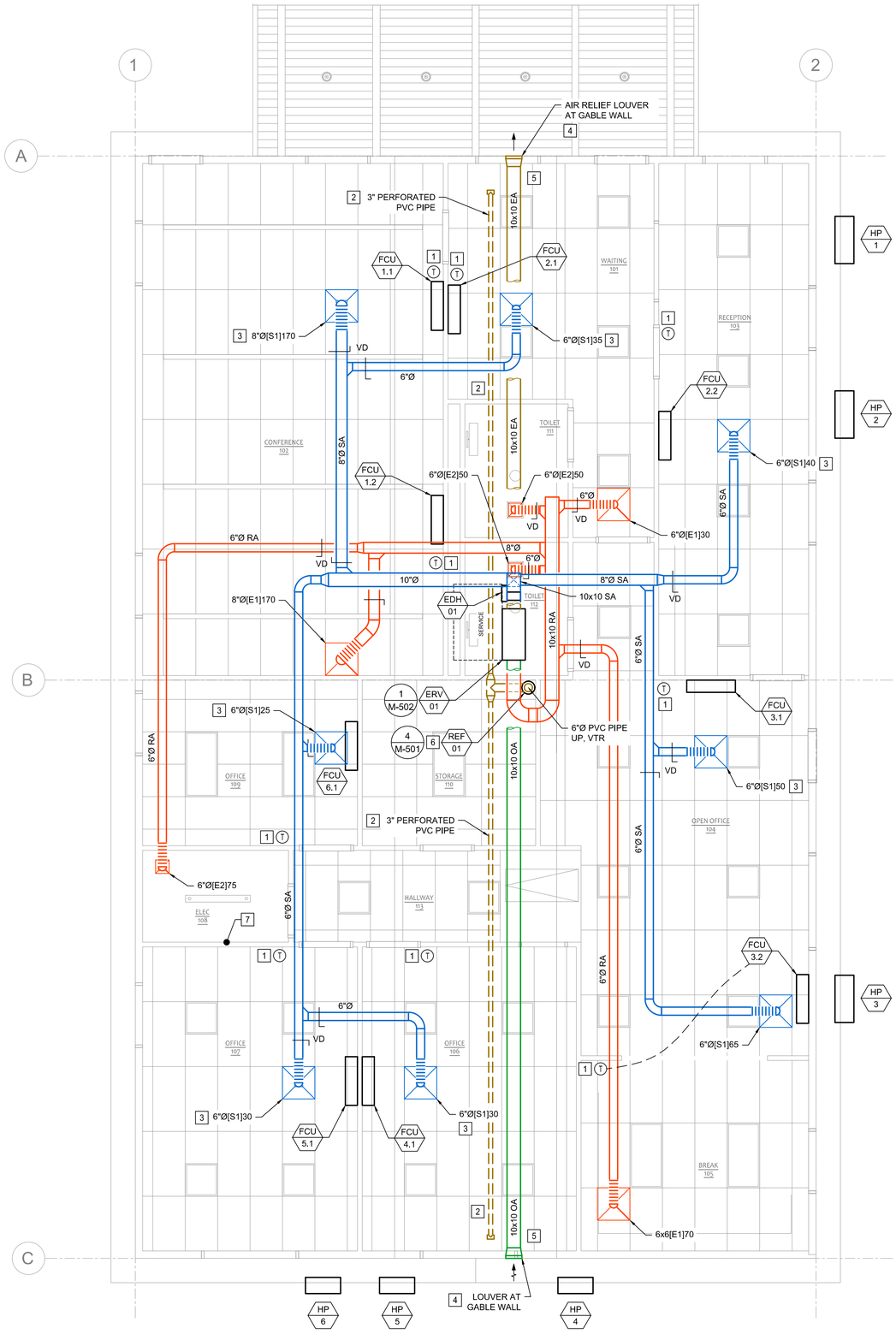
#	Description	Date

date: 10-03-25
project: 19
drawn by: YD
checked by: AW

PLUMBING SCHEDULES

sheet:
P-601
of:

Attachment A



GENERAL NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. AND ALL STATE AND LOCAL CODE REQUIREMENTS.

KEYED NOTES

1. WALL THERMOSTAT WITH SETPOINT AND SPACE TEMPERATURE DISPLAY. MOUNT MINIMUM 4' AND MAXIMUM 5' ABOVE FINISHED FLOOR.
2. ACTIVE SOIL DEPRESSURIZATION (RADON) PERFORATED PVC PIPE BELOW SLAB. REFER TO M-501 DETAILS 4, 5.
3. ADJUST MODULAR CORE TO THROW INTO FANCOIL.
4. GREENHECK EEH-401 12"W X 18"H LOUVER AT GABLE WALL. SEE ARCHITECTURAL DOCUMENTS FOR PLACEMENT AND COLOR. COORDINATE INSTALLATION WITH FRAMERS.
5. PROVIDE AND INSTALL R-8 DUCT INSULATION AND VAPOR BARRIER BETWEEN LOUVER AND ERV.
6. LOCATE RADON FAN WHERE IT IS ACCESSIBLE FOR MAINTENANCE AND REPLACEMENT. PROVIDE AND INSTALL LINE OF SIGHT DISCONNECT.
7. LOCATE RADON FAN TIMECLOCK AND ON/OFF SWITCH ON WALL WHERE IT IS PROTECTED FROM DOOR SWING.

1 **MECHANICAL PLAN**

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

0 2 4 8 16

NORTH

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Alan L. Wright
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DECEMBER 31, 2026
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EXPIRATION DATE JUNE 30, 2026

RACI Engineering

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503 OAK AVENUE
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MECHANICAL PLAN

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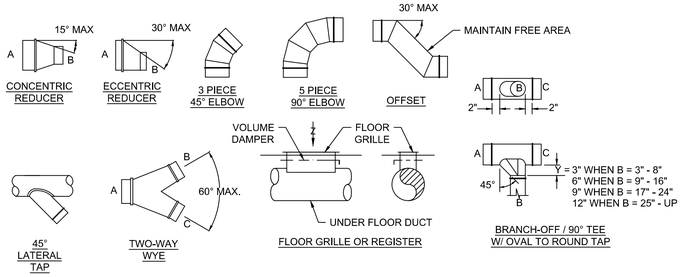
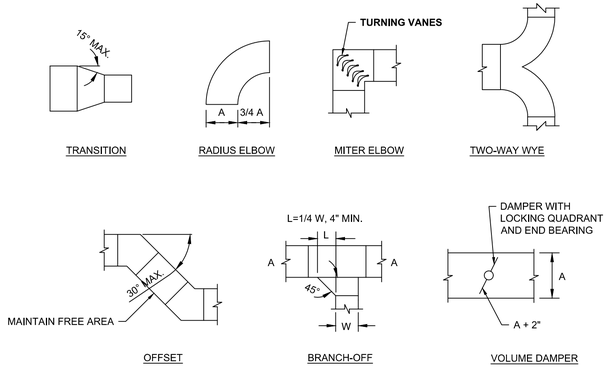
of:



GENERAL CONSTRUCTION DETAIL. APPLIES TO ALL RELEVANT CONSTRUCTION EVEN WHERE NOT CALLED OUT DIRECTLY.

1 ROUND DUCT CONSTRUCTION DETAILS

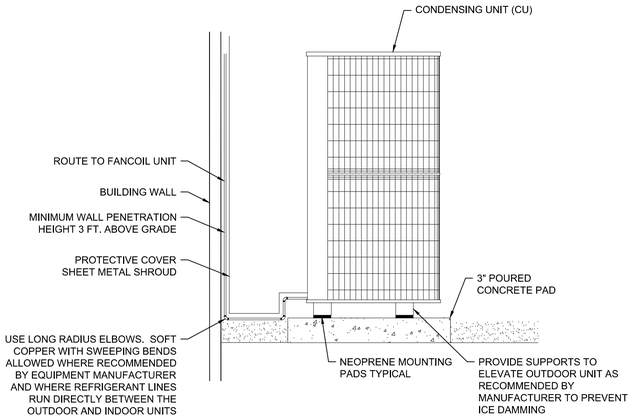
SCALE: NOT TO SCALE



GENERAL CONSTRUCTION DETAIL. APPLIES TO ALL RELEVANT CONSTRUCTION EVEN WHERE NOT CALLED OUT DIRECTLY.

2 RECTANGULAR DUCT CONSTRUCTION DETAILS

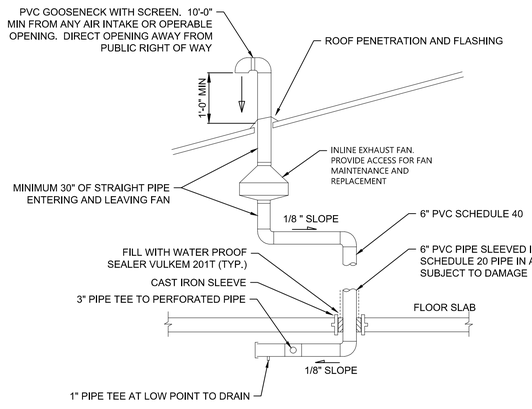
SCALE: NOT TO SCALE



CONTRACTOR IS RESPONSIBLE FOR SEISMIC DESIGN AND RESTRAINTS

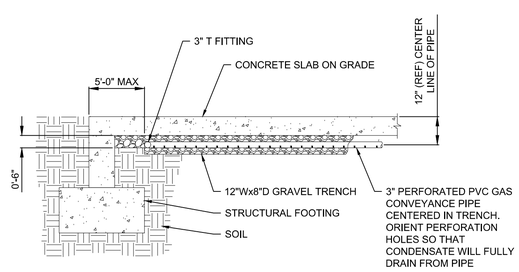
3 HEAT PUMP UNIT INSTALLATION DETAIL

SCALE: NOT TO SCALE



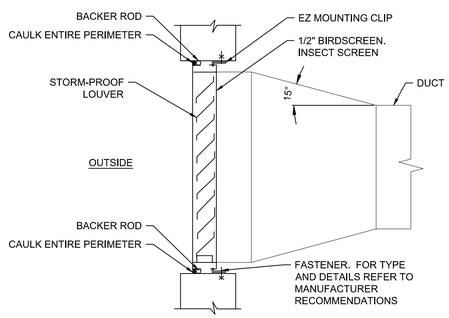
4 RADON EXHAUST FAN DETAIL

SCALE: NOT TO SCALE



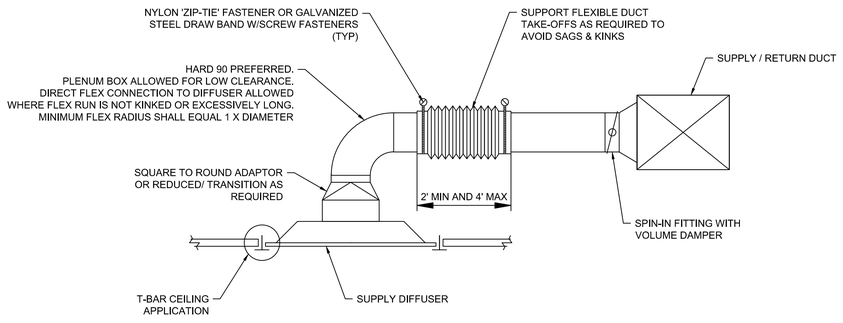
5 UNDERSLAB RADON PIPING DETAIL

SCALE: NOT TO SCALE



6 LOUVER CONNECTION DETAIL

SCALE: NOT TO SCALE



7 TYPICAL LAY-IN DIFFUSER/GRILLE CONNECTION DETAIL

SCALE: NOT TO SCALE

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MECHANICAL DETAILS

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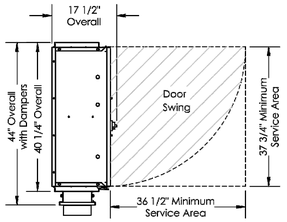
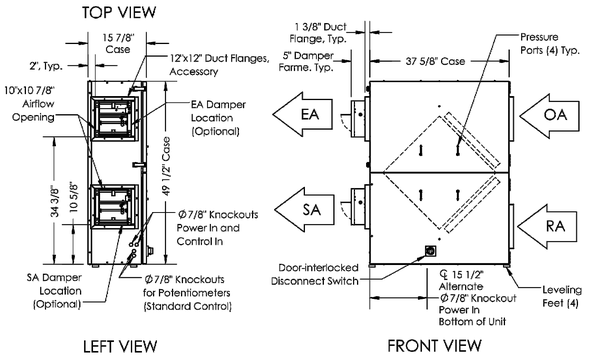


ABBREVIATIONS
EA: Exhaust Air to Outside
OA: Outside Air Intake
RA: Room Air to be Exhausted
SA: Supply Air to Inside

INSTALLATION ORIENTATION
Unit may be installed in any orientation.

NOTE
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.

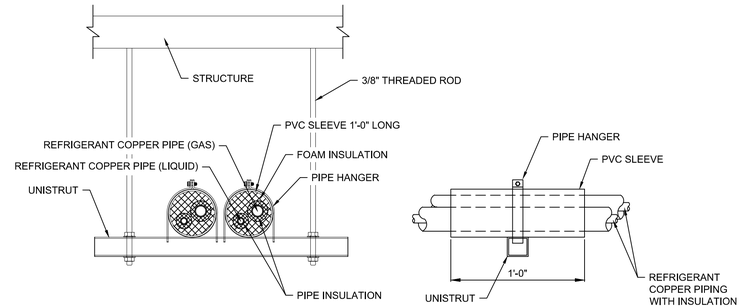
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



Model: HE07INH
Drawing Type: Unit Dimension
Version: AUG23

RenewAire
Energy Recovery Ventilation

1 ENERGY RECOVERY VENTILATION
SCALE: NOT TO SCALE



NOTES:
1. FOAM PREINSULATED REFRIGERANT PIPE INTO PVC SLEEVE. LEAVE SPACE BETWEEN REFRIGERANT PIPES AND BETWEEN REFRIGERANT PIPES AND SLEEVE. DO NOT CRUSH REFRIGERANT PIPE INSULATION TOGETHER OR AGAINST SLEEVE.
2. CONTRACTOR SHALL PROVIDE ALL HARDWARE, UNISTRUT, AND BRACKETS AS REQUIRED. CONTRACTOR SHALL PROVIDE LATERAL SEISMIC CABLING OR STRUT BRACING AS REQUIRED. CONTRACTOR RESPONSIBLE FOR ALL SEISMIC AND STRUCTURAL CALCULATIONS.

GENERAL CONSTRUCTION DETAIL. APPLIES TO ALL RELEVANT CONSTRUCTION EVEN WHERE NOT CALLED OUT DIRECTLY.

2 REFRIGERANT PIPING SUPPORT DETAIL
SCALE: NOT TO SCALE

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MECHANICAL DETAILS

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Attachment A

DEDICATED OUTSIDE AIR W/ HEAT RECOVERY

UNIT	MODEL	Air Quantities			WINTER ENERGY RECOVERY					SUMMER ENERGY RECOVERY					Fan					weight	
ID #	Number	CFM	Supply @SP	Exhaust @SP	OAT deg. F	RAT deg. F	DAT deg. F	Sens. Recovery %	Total Energy Recovery %	OAT deg. F	RAT deg. F	DAT deg. F	Sens. Recovery %	Total Energy Recovery %	Power kW	Volt/Phase/Hz	Unit FLA	Unit MCA	Unit MOP	lbs.	Notes
ERV-1	HE07-JINH-S15BB---GN3---L	470	0.7	0.5	25.8	70	56.7	69.9	64.3	92.3	75	80.2	69.9	58.4	0.357	208/1/60	9.62	6.2	15	158	1, 2, 3

Model number based on RenewAire, refer to specifications for acceptable manufacturers.
CFM in cubic feet per minute.
SP is external Static Pressure in inches of water column
OAT = Design outside air temperature in degree F
DAT = Design heat recovery supply air temperature in degree F
RAT = Design heating exhaust air temperature entering heat wheel in degree F
Fan (SF/RF) HP is installed fan motor horsepower required for air quantity design criteria.
Unit FLA is total full load circuit amperes.
Weight is net operating weight based on equipment model less external mounted options.
Notes:
1 Provide all options for heat recovery control
2 Contractor responsible for all required equipment controls installation
3 Provide factory startup

RADON FAN SCHEDULE

UNIT	MODEL	Air Quantities		POWER		Weight	CONTROL	NOTES
ID #	Number	CFM	@ SP	W	Volt/Phase/Hz	Lbs	METHOD	
REF-101	Rn-4EC-4	200	2	174	120/1/60	9	DISCONNECT SWITCH	1, 2, 3, 4

Rn Model number based on Fantech.
CFM in cubic feet per minute.
SP is total Static Pressure in inches of water column
Weight is net operating weight based on equipment model less external mounted options.
NOTES:
1. HARD WIRE FAN POWER. PROVIDE AND INSTALL DISCONNECT SWITCH. LABEL SWITCH "MAINTAIN ON. OFF FOR SERVICE ONLY"
2. ADJUST FAN SPEED TO ACHIEVE 200 CFM OR 1" W.C. STATIC PRESSURE, WHICHEVER IS ACHIEVED AT A LOWER FAN SPEED.
3. INCLUDE PRESSURE SENSOR ALARM OPTION.
4. LOCATE AUDIBLE ALARM IN A NORMALLY OCCUPIED LOCATION TO INDICATE FAN MALFUNCTION.

INDOOR SPLIT SYSTEM FAN COIL EQUIPMENT LIST

UNIT		MODEL	CALCULATED	CALCULATED	EQUIPMENT	EQUIPMENT		POWER			WEIGHT	
ID #	Space	Number	HEATING LOAD Btuh	COOLING LOAD Btuh	HEATING Btuh	COOLING Btuh	Refrigerant Type	Volt/Phase/Hz	MCA	RLA	IN (LBS)	Notes / Options
FC-1.1	Conference 102	FTXV09AVJU9	8,050	8,500	9,250	8,600	R-32	208/1/60	N/A	N/A	19	1, 2, 3, 4
FC-1.2	Conference 102	FTXV09AVJU9	8,050	8,500	9,250	8,600	R-32	208/1/60	N/A	N/A	19	1, 2, 3, 4
FC-2.1	Waiting 101	CTXV07AVJU9	5,800	4,400	7,650	7,000	R-32	208/1/60	N/A	N/A	19	1, 2, 3, 4
FC-2.2	Reception 103	FTXV09AVJU9	8,250	4,600	9,250	8,600	R-32	208/1/60	N/A	N/A	19	1, 2, 3, 4
FC-3.1	Open Office 104	FTXV12AVJU9	11,000	7,300	11,680	10,860	R-32	208/1/60	N/A	N/A	19	1, 2, 3, 4
FC-3.2	Break 105	CTXV07AVJU9	6,050	6,400	6,820	6,340	R-32	208/1/60	N/A	N/A	19	1, 2, 3, 4
FC-4.1	Office 106	FTXF09BVJU9	3,700	2,750	10,000	9,000	R-32	208/1/60	N/A	N/A	19	1, 2, 3, 4
FC-5.1	Office 107	FTXF09BVJU9	6,775	3,500	10,000	9,000	R-32	208/1/60	N/A	N/A	19	1, 2, 3, 4
FC-6.1	Office 109	FTXF09BVJU9	3,000	2,350	10,000	9,000	R-32	208/1/60	N/A	N/A	19	1, 2, 3, 4

Model number based on Daikin, refer to specifications for acceptable manufacturers.
CFM in cubic feet per minute.
Minimum outside air per requirement of IMC chapter 4 provided by DOAS HRV.
Btuh based on 1.08 x CFM x Air Temperature Differential (EAT-LAT)
INDOOR DESIGN CONDITIONS: SUMMER 74° F DB
INDOOR DESIGN CONDITIONS: WINTER 70° F DB
EAT = Entering air temperature in degree F; LAT = Leaving air temperature in degree F
db is dry bulb temperature in degree F and wb is entering wet bulb temperature in degree F
Fan HP is indoor air circulation fan motor horsepower required for air quantity design criteria.
Unit FLA is total full load circuit amperes.
Weight is net operating weight based on equipment model less external mounted options.

Notes:
1 Provide and install programmable thermostate Daikin Model DTST-LTE-LA-A
2 Where condensate cannot gravity drain, provide and install manufacturer approved Aspen Pumps Model DACA-CP4-1.
3 Power is provided from the outdoor unit.
4 Route condensate drain to sink tailpiece.

AIR-COOLED HEAT PUMP OUTDOOR UNIT SCHEDULE

TAG	Model	Calculated Cooling Load	Calculated Heating Load	Equipment Cooling Capacity	Equipment Heating Capacity		Refrigerant Charge	Max System Charge	Max Allowable Charge	POWER			EFFICIENCY							
ID #	Number	(BTU/h)	(BTU/h)	(BTU/h)	(BTU/h)	Refrigerant	(lbs)	(lbs)	(lbs)	Voltage/HZ/Phase	MCA	MOP	SEER2	DOE SEER2	EER2	HSPF2	DOE HSPF2	Heating COP @5F	Weight (lbs)	Notes / Options
HP-1	3MXM24AVJU9	17,000	16,100	23,000	24,000	R-32	4.90	6.3	25.0	208V / 60 / 1-phase	19.9	25	21.0	14.3	12.0	10.0	7.5	1.8	140	1, 2, 3
HP-2	3MXM24AVJU9	13,700	17,100	23,000	24,000	R-32	4.90	6.3	28.0	208V / 60 / 1-phase	19.9	25	21.0	14.3	12.0	10.0	7.5	1.8	140	1, 2, 3
HP-3	3MXM24AVJU9	13,700	17,100	23,000	24,000	R-32	4.90	6.3	28.0	208V / 60 / 1-phase	19.9	25	21.0	14.3	12.0	10.0	7.5	1.8	140	1, 2, 3
HP-4	RXF09BVJU9	2,750	3,700	9,000	10,900	R-32	1.65	1.8	11.0	208V / 60 / 1-phase	11.6	15	21.0	14.3	12.5	10.2	7.5	2.0	63	1, 2, 3
HP-5	RXF09BVJU9	3,500	6,800	9,000	10,900	R-32	1.65	1.8	11.0	208V / 60 / 1-phase	11.6	15	21.0	14.3	12.5	10.2	7.5	2.0	63	1, 2, 3
HP-6	RXF09BVJU9	2,350	2,950	9,000	10,900	R-32	1.65	1.8	6.0	208V / 60 / 1-phase	11.6	15	21.0	14.3	12.5	10.2	7.5	2.0	63	1, 2, 3

MODEL NUMBER BASED ON DAIKIN. REFER TO SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS.
OUTDOOR DESIGN CONDITIONS: SUMMER 92.2° F DB / 66.7° F WB
OUTDOOR DESIGN CONDITIONS: WINTER 25° F DB / 11.9° F DEW POINT
INDOOR DESIGN CONDITIONS: SUMMER 74° F DB
INDOOR DESIGN CONDITIONS: WINTER 70° F DB
HEAT PUMP MUST OPERATE AT AN AMBIENT OUTDOOR TEMPERATURE OF AT LEAST 115° F
HEAT PUMP MUST SHUTDOWN TO SELF PROTECT IF AMBIENT OUTDOOR TEMPERATURE EXCEEDS THE ALLOWABLE OPERATING HIGH AMBIENT TEMPERATURE LIMIT.
HEAT PUMP MUST AUTOMATICALLY RESTART FROM A HIGH AMBIENT TEMPERATURE SHUTDOWN WHEN THE AMBIENT TEMPERATURE DROPS TO A VALUE OF NO LESS THAN 100° F
HEAT PUMP MUST PROVIDE RATED HEATING CAPACITY DOWN TO AN AMBIENT TEMPERATURE OF 20° F OR LOWER.
HEAT PUMP MUST CONTINUE TO PROVIDE HEAT DOWN TO AN AMBIENT TEMPERATURE OF 5° F OR LOWER.

Notes
1 Provide manufacturer recommended equipment stand to elevate heat pump to prevent ice damming.
2 Ensure that liquid condensate, from the defrost cycle, will not drain across sidewalks, walkways, patios, other pedistrian areas, or automotive parking areas.
3 Protect refrigerant linsets from damage where pedistrians or maintenance technicians can walk between the outdoor unit and the building.

DUCT HEATERS

UNIT	MODEL	Air Quantities	HEATING							weight	
ID #	Number	CFM	Temp In	Temp Out	kW	Volt/Phase/Hz	Unit FLA	Unit MCA	Unit MOPD	in pounds	Notes
EDH-1	EK-1010002SCCHR--21F1SV-N	470	51.5	65	2	208/1/60	9.62	12.02	15	25	1

Model number based on Renewair, refer to specifications for acceptable manufacturers.
CFM in cubic feet per minute.
ISP is internal Static Pressure in inches of water column
Minimum outside air per requirement of IMC chapter 4.
Btuh based on 1.08 x CFM x Air Temperature Differential (EAT-LAT)
EAT = Entering air temperature in degree F; LAT = Leaving air temperature in degree F
Fan HP is indoor air circulation fan motor horsepower required for air quantity design criteria.
Unit FLA is total full load circuit amperes.
Weight is net operating weight based on equipment model less external mounted options.
Notes:
1 Provide and install SCR controller and supply air temperature sensor to maintain 65 F (adjustable) supply air temp.

AIR TERMINAL SCHEDULE

UNIT	MODEL							BLADE SPACING	BLADE	NOTES
ID #	NUMBER	SERVICE	TYPE	MATERIAL	MOUNTING	BORDER	PATTERN	INCHES	DEFLECTION	
S1	PDMC	SUPPLY	DIFFUSER	STEEL	LAY-IN	STEEL	ADJUSTABLE	-	ADJUSTABLE	1,2
E1	PDDR	EXHAUST	GRILLE	STEEL	LAY-IN	STEEL	FIXED	N/A	N/A	1,2
E2	PDDR	EXHAUST	GRILLE	STEEL	SURFACE	STEEL	FIXED	N/A	N/A	1,2

MODEL NUMBER BASED ON PRICE PRODUCT, REFER TO SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS.

NOTES:
1 FINISH SHALL BE WHITE ANODIC ACRYLIC PAINT.
2 PROVIDE SQUARE TO ROUND TRANSITION AS REQUIRED.

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MECHANICAL
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Electrical Abbreviations & Symbol Legend

Attachment A

Abbreviations

A	AMPERE
AC	ALTERNATING CURRENT, AIR CONDITIONING UNIT
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AVAILABLE INTERRUPTING CAPACITY
AF	AMPERE FRAME / AMPERE FUSED
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ARMS	ARC FLASH REDUCTION MAINTENANCE SYSTEM
AT	AMPERE TRIP
AV	AUDIO / VIDEO
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BFG	BELOW FINISHED GRADE
BLDG	BUILDING
C	CONDUIT
CAT	CATEGORY
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED
CKT	CIRCUIT
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY
CU	COPPER
dB	DECIBEL
DC	DIRECT CURRENT
DIM	DIMENSION
DIV	DIVISION
DTL	DETAIL
DWG	DRAWING
EL	ELEVATION
EMT	ELECTRICAL METALLIC TUBING
EOLR	END OF LINE RESISTOR
FACP	FIRE ALARM CONTROL PANEL
FF	FINISH FLOOR
FLA	FULL LOAD AMPERES
FT	FOOT, FEET
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HH	HAND HOLE
HP	HORSEPOWER
ID	IDENTIFICATION
IDC	INITIATING DEVICE CIRCUIT
IDF	INTERMEDIATE DISTRIBUTION FRAME
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IG	ISOLATED GROUND
IT	INFORMATION TECHNOLOGY
JB	JUNCTION BOX
KAIC	THOUSAND AMPS INTERRUPTING CURRENT
KCMIL	THOUSNAD CIRCULAR MILS
KVA	KILOVOLT-AMPERE
KW	KILOWATT
LAN	LOCAL AREA NETOWRK
LED	LIGHT EMITTING DIODE
LS	LIMIT SWITCH
LSI	ELECTRONIC TRIP UNIT ADJUSTABLE LONG TIME DELAY, SHORT TIME DELAY, INSTANTANEOUS TRIP
LSIG	ELECTRONIC TRIP UNIT WITH ADJUSTABLE LONG TIME DELAY, SHORT TIME DELAY, INSTANTANEOUS TRIP, AND GROUND FAULT
LV	LOW VOLTAGE
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MDF	MAIN DISTRIBUTION FRAME
MHz	MEGAHERTZ
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
N	NEUTRAL
NAC	NOTIFICATION APPLIANCE CIRCUIT
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANFACTRERS ASSOCIATION
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FUNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FRNISEHD, OWNER INSTALLED
ø	PHASE
PB	PULL BOX, PANIC BUTTON, PUSH BUTTON
PE	PHOTO EYE
PNL	PANEL
POE	POWER OVER ETHERNET
PTZ	PAN, TILT, ZOOM
RF	RADIO FREEQUENCY
RFI	REQUEST FOR INFORMATION
SPD	SURE PROTECTION DEVICE
STD	STANDARD
SW	SWITCH
T/M	THERMAL MAGNETIC CIRCUIT BREAKER
TBD	TO BE DETERMINED
TV	TELEVISION/MONITOR OUTLET
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UH	UNIT HEATER
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRPTIBLE POWER SUPPLY
UON	UNLESS OTHERWISE NOTED
USB	UNIVERSAL SERIAL BUS
V	VOLTS, VOLTAGE
VA	VOLT-AMP
VFD	VARIABLE REQUENCY DRIVE
W	WATT, WIRE
WAN	WIDE AREA NETOWRK
WAP	WIRELESS ACCESS POINT
WI-FI	WIRELESS FIDELITY
W/	WITH
W/O	WITHOUT
XFMR	TRANSFORMER
Y	WYE
1P	ONE POLE
2P	TWO POLE
3P	THREE POLE
4P	FOUR POLE

Annotation

(N)	INDICATES NEW EQUIPMENT.
(E)	INDICATES EXISTING EQUIPMENT TO REMAIN.
(D)	INDICATES EXISTING EQUIPMENT TO BE DEMOLISHED.
(RR)/(RD)	INDICATES EXISTING EQUIPMENT OR DEVICE TO BE REMOVED AND REINSTALLED.
PXXX	CONDUIT & CONDUCTOR CALLOUT. REFER TO CONDUIT & CONDUCTOR SCHEDULE.
XX	KEYED NOTE CALLOUT. REFER TO CORRESPONDING SHEET KEYNOTES.
XX	KEYED NOTE CALLOUT. REFER TO CORRESPONDING SHEET KEYNOTES.
XX	KEYED NOTE CALLOUT. REFER TO CORRESPONDING SHEET KEYNOTES.
XX-XX	MECHANICAL EQUIPMENT CALLOUT. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE.
X EX.XX	DETAIL CALLOUT. REFER TO DETAIL AND SHEET AS INDICATED ON CALLOUT.
XX'-XX"	FIXTURE MOUNTING CALLOUT. HEIGHT ABOVE FINISHED FLOOR (A.F.F.)
XXXXX	EQUIPMENT CALLOUT. REFER TO NEMA CONNECTION SCHEDULE.
X EX.XX	SECTION CALLOUT. REFER TO DETAIL AND SHEET AS INDICATED ON CALLOUT.
# EX.XX #	ELEVATION CALLOUT. REFER TO DETAIL AND SHEET AS INDICATED ON CALLOUT.

Power Distribution

	DUPLEX RECEPTACLE, MOUNTED AT 18" AFF, UON.
	SIMPLEX RECEPTACLE, MOUNTED AT 18" AFF, UON.
	QUADPLEX RECEPTACLE, MOUNTED AT 18" AFF, UON.
	GFCI DUPLEX RECEPTACLE, MOUNTED AT 18" AFF, UON.
	GFCI QUADPLEX RECEPTACLE, MOUNTED AT 18" AFF, UON.
	TAMPERPROOF DUPLEX RECEPTACLE, MOUNTED AT 18" AFF, UON.
	TAMPERPROOF QUADPLEX RECEPTACLE, MOUNTED AT 18" AFF, UON.
	NEMA SPECIAL RECEPTACLE, MOUNTED AT 18" AFF, UON. NEMA CONFIGURATION AS INDICATED.
	SIDE HATCHED RECEPTACLE, TO BE WIRED TO SWITCHED CIRCUIT.
	CENTER HATCHED RECEPTACLE TO BE WIRED TO EMERGENCY CIRCUIT.
	RECEPTACLE MOUNTED ON CEILING.
	RECEPTACLE MOUNTED IN-COUNTER.
	DISCONNECT SWITCH.
	FUSED DISCONNECT SWITCH.
	ENCLOSED CIRCUIT BREAKER.
	COMBINATION STARTER.
	POWER POLE.
	PANELBOARD SURFACE MOUNT.
	PANELBOARD FLUSH MOUNT.
	MAIN DISTRIBUTION PANEL.
	UTILITY CT METER.
	UTILITY TRANSFORMER.

Lighting

	TROFFER LUMINAIRE, SURFACE, RECESS, OR PENDANT MOUNTED AS INDICATED ON THE DRAWINGS.
	DOWNLIGHT LUMINAIRE, SURFACE, RECESS, OR PENDANT MOUNTED AS INDICATED ON THE DRAWINGS.
	UNDERCABINET LUMINAIRE.
	EMERGENCY BATTERY PACK LUMINAIRE, WALL OR CEILING MOUNTED.
	LINEAR PENDANT MOUNTED LUMINAIRE.
	LINEAR WALL MOUNTED LUMINAIRE.
	BOLLARD LUMINAIRE.
	SITE LUMINAIRE POLE MOUNTED. NUMBER OF HEADS AS SHOWN.
	TRACK LUMINAIRE.
	SPOT LUMINAIRE.
	WALL MOUNTED LUMINAIRE.
	RING PENDANT LUMINAIRE.
	WALL WASH LUMINAIRE POINTED IN DIRECTION AS SHOWN.
	EXIT SIGN, WALL OR CEILING MOUNTED, SINGLE FACE WITH DIRECTIONAL CHEVRONS AS INDICATED ON DRAWINGS.
	EXIT SIGN, WALL OR CEILING MOUNTED, DOUBLE FACE WITH DIRECTIONAL CHEVRONS AS INDICATED ON DRAWINGS.
	HALF HATCHED LUMINAIRE TO BE WIRED TO EMERGENCY CIRCUIT
	FULL HATCHED LUMINAIRE TO BE WIRED TO NIGHTLIGHT CIRCUIT.

Switches

S	SINGLE POLE SWITCH - MOUNTED AT 42" AFF, UON.
	LOW VOLTAGE 0-10 VOLT DIMMING SWITCH - MOUNTED AT 42" AFF, UON.
M M	OCCUPANCY SENSOR - CEILING OR WALL MOUNTED.
PP	OCCUPANCY SENSOR POWER PACK.
PC PC	PHOTOCELL - CEILING OR WALL MOUNTED.
	ADA DOOR PUSHPLATE.
	EMERGENCY STOP SWITCH, MUSHROOM HEAD.
	PUSHBUTTON, SINGLE OR DOUBLE.

One-Line Diagram

	CIRCUIT BREAKER.
	DRAWOUT CIRCUIT BREAKER.
	ENCLOSED CIRCUIT BREAKER.
	MOTOR STARTER CONTACT.
	DISCONNECT SWITCH.
	ENCLOSED DISCONNECT SWITCH.
	FUSED DISCONNECT SWITCH.
	ENCLOSED FUSED DISCONNECT SWITCH.
	CURRENT TRANSFORMER METER.
	GENERATOR, CONFIGURATION AS INDICATED ON DRAWING.
	EQUIPMENT GROUND.
	MOTOR, RATED AS INDICATED ON DRAWINGS.
	NEMA CONNECTION.
	PANEL.
	TRANSFER SWITCH, WITH FUSES OR BREAKERS AS SHOWN ON DRAWINGS.
	TRANSFORMER

Access Control & Security

	ACCESS CONTROL - DOOR CONTACT. PROVIDE 3/4" CONDUIT FROM DOOR FRAME TO ACCESSIBLE CEILING OR SECURITY JUNCTION BOX AS SHOWN ON THE DRAWINGS.
	ACCESS CONTROL - CARD READER. PROVIDE 3/4" CONDUIT FROM DOOR FRAME TO ACCESSIBLE CEILING OR SECURITY JUNCTION BOX AS SHOWN ON THE DRAWINGS.
	ACCESS CONTROL - ELECTRIC STRIKE. PROVIDE 3/4" CONDUIT FROM DOOR FRAME TO ACCESSIBLE CEILING OR SECURITY JUNCTION BOX AS SHOWN ON THE DRAWINGS.
K	ACCESS CONTROL - KEY PAD. PROVIDE 3/4" CONDUIT FROM DOOR FRAME TO ACCESSIBLE CEILING OR SECURITY JUNCTION BOX AS SHOWN ON THE DRAWINGS.
	ACCESS CONTROL - MAGNETIC LOCK. PROVIDE 3/4" CONDUIT FROM DOOR FRAME TO ACCESSIBLE CEILING OR SECURITY JUNCTION BOX AS SHOWN ON THE DRAWINGS.
RX	ACCESS CONTROL - REQUEST TO EXIT. PROVIDE 3/4" CONDUIT FROM DOOR FRAME TO ACCESSIBLE CEILING OR SECURITY JUNCTION BOX AS SHOWN ON THE DRAWINGS.
PB	ACCESS CONTROL - ELECTRIFIED PANIC BAR. PROVIDE 3/4" CONDUIT FROM DOOR FRAME TO ACCESSIBLE CEILING OR SECURITY JUNCTION BOX AS SHOWN ON THE DRAWINGS.
S	ACCESS CONTROL - SECURITY JUNCTION BOX. SIZED AS RECOMMENDED BY SECURITY SYSTEM MANUFACTURER.
CI	ACCESS CONTROL - CAMERA / INTERCOM.
	ACCESS CONTROL - PANIC BUTTON.
	SECURITY CAMERA - CEILING MOUNTED.
	SECURITY CAMERA - WALL MOUNTED.
IS	INTRUSION SENSOR - CEILING MOUNTED.
IS	INTRUSION SENSOR - WALL MOUNTED.
IK	INTRUSION KEYPAD.

Low Voltage

	ETHERNET OUTLET MOUNTED AT 18" AFF, UON.
	COAXIAL OUTLET MOUNTED AT 18" AFF, UON.
	PHONE OUTLET MOUNTED AT 18" AFF, UON.
	LOW VOLTAGE OUTLET CEILING MOUNTED.
	WIRELESS ACCESS POINT CEILING MOUNTED.
	WIRELESS ACCESS POINT WALL MOUNTED.
	DIGITAL CLOCK.
	FLOORBOX DATA.
	POKETHRU DATA.
	IT RACK.
	VERTICAL WIRE MANAGEMENT.

Audio/Visual

	AV OUTLET - WALL MOUNTED AT 18" AFF, UON. SEE AUDIO VISUAL DETAILS FOR CONFIGURATIONS.
	AUDIO VIDEO OUTLET - CEILING MOUNTED.
S	AUDIO SPEAKER - WALL MOUNTED AT 96" AFF, UON.
S	AUDIO SPEAKER - CEILING MOUNTED.
P	PAGING SPEAKER - WALL MOUNTED AT 96" AFF, UON.
P	PAGING SPEAKER - CEILING MOUNTED.
P	PAGING HORN - WALL MOUNTED AT 96" AFF, UON.
I	INTERCOM SPEAKER - WALL MOUNTED AT 96" AFF, UON.
I	INTERCOM SPEAKER - CEILING MOUNTED.
I	INTERCOM CALL BUTTON - MOUNTED AT 42", UON.
AE	ADMINISTRATION CONSOLE. PROVIDE ONE (1) CAT6 CABLE.
	AV PROJECTOR - CEILING MOUNTED.
AE	AUDIO ENHANCEMENT DEVICE.

General Electrical Notes

1. ALL 120-VOLT, 20-AMP LIGHTING AND RECEPTACLE BRANCH CIRCUIT SHALL BE 2-#10, 1-#10G IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL INCREASE THE LIGHTING AND RECEPTACLE BRANCH CIRCUIT CONDUCTORS FOR VOLTAGE DROP BASED ON ACTUAL LENGTH OF THE INSTALLED CIRCUIT. THE UNGROUNDED, GROUNDED, AND GROUNDING CONDUCTORS SHALL BE SIZED, AT MINIMUM, AS FOLLOWS:
   #10 AWG FOR ALL CIRCUITS GREATER THAN 100-FT.
   #8 AWG FOR ALL CIRCUITS GREATER THAN 150-FT.
2. GROUNDED (NEUTRAL) CONDUCTORS SHALL NOT BE SHARED BETWEEN BRANCH CIRCUITS, UNLESS SHOWN ON THE DRAWINGS.
3. ALL EXIT SIGNS SHALL BE WIRED TO THE LOCAL LIGHTING BRANCH CIRCUIT AHEAD OF ALL SWITCHING, UON.
4. PROVIDE 0-10V DIMMING CONDUCTORS TO ALL LUMINAIRES WHICH ARE CONTROLLED BY 0-10V DIMMERS SHOWN ON THE DRAWINGS.

Drawing Symbol Variables

3	THREE WAY SWITCH.
4	FOUR WAY SWITCH.
#J	QUANTITY OF JACKS AND HORIZONTAL CABLES. J = CAT6, JA = CAT6A, JE = CAT5E
+XX	MOUNTING UNITS EXPRESSED IN INCHES TO CENTERLINE ABOVE FINISHED FLOOR OR GRADE.
C	MOUNTED HORIZONTALLY AT 4" ABOVE COUNTERTOP.
CL	CLOCK.
DR	DUAL RELAY.
E	RED EMERGENCY SWITCH.
EL	ELEVATOR RECALL.
ETR	EXISTING DEVICE SHALL REMAIN.
G	GLASS BREAK SENSOR.
K	KEYED SWITCH.
LF	LOW FREQUENCY.
LV	LOW VOLTAGE SWITCH.
M	MOTOR RATED TOGGLE SWITCH.
NEX	REPLACE EXISTING WIRING DEVICE AND FACEPLATE WITH NEW. BACK BOX AND CONDUIT SHALL REMAIN.
O	INTEGRAL OCCUPANCY SENSOR.
P	ADA PHONE, VERIFY HEIGHT WITH ARCHITECT / OWNER.
REX	REMOVE EXISTING DEVICE / EQUIPMENT.
TK	MOUNTED IN TOE KICK OF CASEWORK.
TV	MOUNTED ADJACENT TO TV AT 60" AFF, UON.
V	VANDAL RESISTANT.
WG	WIREGUARD.
WP	WEATHERPROOF.

Miscellaneous

J J	JUNCTION BOX (ROUND, SQUARE).
T	THERMOSTAT.
R	RELAY.
	CORD REEL.
	MOTOR / EXHAUST FAN.
	CEILING FAN.
	UTILITY POLE.
	WEATHERHEAD.
	GROUND ROD.
	GROUND ROD WITH TEST WELL.
	SURFACE RACEWAY / WIREMOLD.
	FIRE RATED BACKBOARD.
	GROUND BUS BAR.

Raceways

	CONDUIT AND/OR CONDUCTORS INSTALLED ABOVE GRADE, CONCEALED IN WALL OR CEILING SPACE.
	CONDUIT AND/OR CONDUCTORS INSTALLED ABOVE GRADE, BELOW SLAB.
	CONDUIT TURNED DOWN.
	CONDUIT TURNED UP.
	CONDUIT STUBBED AND CAPPED.
	CONDUIT DIRECT CONNECTION TO EQUIPMENT.
	FLEXIBLE CONNECTION TO EQUIPMENT.
	CONDUIT / WIRING CONTINUATION.
	HOMERUN TO PANELBOARD.
	CABLE TRAY. SIZE AND TYPE AS INDICATED ON DRAWINGS.

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503 OAK AVENUE
AMITY, OREGON 97101

consultants:

revisions:

	Description	Date

date: 10-03-25
project: 01825
drawn by: JCL
checked by: DML

ELECTRICAL SYMBOL LEGEND AND ABBREVIATIONS

sheet: E-001

of:

ELECTRICAL LOAD SUMMARY			
Feeder Description: 208/120V, 3PH			
Load Description	Connected Load KVA	Demand Factor	Demand Load KVA
Lighting	4.3	125%	5.3
Plug Loads	8.5	100%;50%	8.5
Mechanical Loads	38.2	100%	38.2
Plumbing Loads	20.8	100%	20.8
IT Loads	6.2	100%	6.2
Total Load	78.0	KVA	79.1
Total Ampacity	94	Amps	219
Proposed Feeder Capacity		Amps	300
Spare Feeder Capacity		Amps	81

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ELECTRICAL CALCULATIONS

sheet: E-002

of:

Attachment A

TO UTILITY

(E) UTILITY TRANSFORMER
50,590 AIC

(E) MAIN SERVICE PANEL

2,000A, 208/120V, 3Ø, 4W

UTILITY PULLING SECTION | FEEDER SECTION

UTILITY METER M

2000A | 100A (TVSS) | 100A | 800A | 200A | 225A | 100A | 175A | 100A | 90A | 50A | 200A | 200A | 200A | 200A | 600A | 400A | 200A | 200A | 200A | 400AF 300AT (1)

P101 (3)

GENERATOR
35KVA
208/120V

100A

100A

(E) ATS
100A
4P, 4W

F | BLDG D | BLDG G | ELEV | 2A | 2B | 2C | 2D | 2D1 | 2F | 2G | 2H | 2K | DO-A (2)

25 ELEV. CTRL | 20 AHU-1 SUPPLY | 15 AHU-1 RETURN

E2

2C1 | 2D2 | 2F1

E | 2E2 | 2E3 | 2E4

(E) SUB DISTRIBUTION PANEL-MS

800A, 208/120V, 3Ø, 4W

800A

200A | 200A | 200A | 200A | 200A | 200A | 100A | 100A | 100A

ENERGY METER M | ENERGY METER M | ENERGY METER M

A | B | C | D | F | G | 2MA | 2L2A | 2P1A

2P2A

SHEET KEY NOTES

1. CONTRACTOR SHALL REMOVE EXISTING 200A MODULAR BREAKERS (2 TOTAL) AND REPLACE WITH NEW 400AF, THREE POLE BREAKER. EXISTING SWITCHBOARD IS SQUARE D QED STYLE, CATALOG 169553300-001. CONTRACTOR SHALL FIELD VERIFY CATALOG NUMBER PRIOR TO ORDERING NEW BREAKER.
2. PROVIDE GROUNDING ELECTRODE CONNECTION FOR SEPARATE STRUCTURE AS REQUIRED BY NEC 250.32. PROVIDE 1 - #1/0 TO WATER SERVICE, 1 - #6 TO TWO (2) GROUND RODS, AND 1 - #4 TO CONCRETE ENCASED ELECTRODE.
3. PULL NEW P101 CONDUCTORS THROUGH EXISTING 2.5" CONDUIT AND 3.0" CONDUIT TO EXISTING IN-GROUND JUNCTION BOX THEN THRU NEW CONDUITS INDICATED. SEE ELECTRICAL SITE PLAN E-100 FOR ADDITIONAL INFORMATION.

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ELECTRICAL
ONE-LINE DIAGRAM

sheet: E-010
of:

Attachment A

LUMINAIRE SCHEDULE

FIXTURE NO.	DESCRIPTION	LAMP TYPE	LUMENS (MINIMUM)	CRI	COLOR TEMP.	DRIVER	EMERGENCY DRIVER	INTEGRAL MOTION/PHOTO SENSOR	CONTROLS	VOLTAGE	LOAD	MFR.	MODEL NUMBER
C4	SURFACE MOUNTED 6" DIAMETER x 7-3/4" HIGH LED CYLINDER, HEAVY-GAUGE ALUMINUM CONSTRUCTION, MEDIUM BATWING DISTRIBUTION, MATTE DIFFUSE OPTICAL FINISH, PARABOLIC BLACK ANODIZED TRIM, MATTE BLACK FINISH, PROVIDE SURFACE MOUNT WITH RECESSED J-BOX MOUNTING OPTION, AND WET LOCATION LISTED.	LED	2,000 LM	80	3000K	STANDARD 0-10V DIMMING	NO	NO	WIRELESS POWERPACK	UNV	21 WATTS	LITHONIA	LDN6CYL SERIES
C4E	SURFACE MOUNTED 6" DIAMETER x 7-3/4" HIGH LED CYLINDER, HEAVY-GAUGE ALUMINUM CONSTRUCTION, MEDIUM BATWING DISTRIBUTION, MATTE DIFFUSE OPTICAL FINISH, PARABOLIC BLACK ANODIZED TRIM, MATTE BLACK FINISH, PROVIDE SURFACE MOUNT WITH RECESSED J-BOX MOUNTING OPTION, AND WET LOCATION LISTED. PROVIDE 10-WATT EMERGENCY BATTERY PACK.	LED	2,000 LM	80	3000K	STANDARD 0-10V DIMMING	YES INTEGRAL BATTERY	NO	WIRELESS POWERPACK	UNV	21 WATTS	LITHONIA	LDN6CYL SERIES
D4	RECESSED 4" DIAMETER, 4-3/4" HIGH DOWNLIGHT, DIE-CAST ALUMINUM HOUSING, WIDE DISTRIBUTION, WHITE PAINTED SELF-FLANGED, SEMI-SPECULAR CLEAR REFLECTOR, AND WET LOCATION LISTED.	LED	2,000 LM	80	3500K	STANDARD 0-10V DIMMING	NO	NO	INTEGRAL WIRELESS	UNV	14 WATTS	LITHONIA	LDN4 SERIES
I4E	SURFACE MOUNTED STRIP LUMINAIRE, 48" L x 3.5" W x 2.75" H WITH COLD-ROLLED STEEL HOUSING, FLAT LENS DIFFUSER, GENERAL DISTRIBUTION, AND DAMP LOCATION LISTED, BAKED WHITE FINISH. PROVIDE INTEGRAL BATTERY PROVIDE INTEGRAL NLIGHT AIR CONTROL INTERFACE FOR EMERGENCY CIRCUIT.	LED	4,000 LM	80	3500K	STANDARD 0-10V DIMMING	YES INTEGRAL BATTERY	YES	INTEGRAL WIRELESS	UNV	32 WATTS	LITHONIA	CLX SERIES
I4P	PENDANT MOUNTED STRIP LUMINAIRE, 48" L x 3.5" W x 2.75" H WITH COLD-ROLLED STEEL HOUSING, FLAT LENS DIFFUSER, GENERAL DISTRIBUTION, AND DAMP LOCATION LISTED, BAKED WHITE FINISH. PROVIDE INTEGRAL NLIGHT AIR CONTROL INTERFACE.	LED	4,000 LM	80	3500K	STANDARD 0-10V DIMMING	NO	YES	INTEGRAL WIRELESS	UNV	32 WATTS	LITHONIA	CLX SERIES
LRXX	XX' L x 2-1/8" W x 4-3/8"H RECESSED LINEAR LUMINAIRE WITH COLD-ROLLED STEEL HOUSING, FLUSH LENS STYLE, WHITE SATIN POWDERCOATED FINISH, STANDARD DISTRIBUTION. PROVIDE ACOUSTIC CEILING GRID MOUNTING TYPE. LENGTH SHALL BE CONTINUOUS IN FEET WITH LENGTH AS SHOWN ON THE DRAWINGS. PROVIDE INTEGRAL NLIGHT AIR CONTROL INTERFACE AND INTEGRAL DUAL TECH SENSOR	LED	600 LM / FT	80	3500K	STANDARD 0-10V DIMMING	NO	YES	INTEGRAL WIRELESS	UNV	6 WATTS / FT	MARK ARCHITECTURAL LIGHTING	SLOT 2 RECESSED LED SERIES
LRXXE	XX' L x 2-1/8" W x 4-3/8"H RECESSED LINEAR LUMINAIRE WITH COLD-ROLLED STEEL HOUSING, FLUSH LENS STYLE, WHITE SATIN POWDERCOATED FINISH, STANDARD DISTRIBUTION. PROVIDE ACOUSTIC CEILING GRID MOUNTING TYPE. PROVIDE ONE (1) 4 FOOT SECTION WITH INTEGRAL BATTERY BACKUP, SECTION AS SHOWN ON THE DRAWINGS. LENGTH SHALL BE CONTINUOUS IN FEET WITH LENGTH AS SHOWN ON THE DRAWINGS. PROVIDE INTEGRAL NLIGHT AIR CONTROL INTERFACE AND INTEGRAL DUAL TECH SENSOR	LED	600 LM / FT	80	3500K	STANDARD 0-10V DIMMING	YES INTEGRAL BATTERY	YES	INTEGRAL WIRELESS	UNV	6 WATTS / FT	MARK ARCHITECTURAL LIGHTING	SLOT 2 RECESSED LED SERIES
PL1	32" L x 14" W x 7.75" H SITE LUMINAIRE WITH DIE-CAST ALUMINUM HOUSING, SINGLE HEAD, TYPE 4 DISTRIBUTION, INTEGRAL SURGE PROTECTION, 0-10V DIMMING DRIVER, AND TEXTURED BLACK FINISH. PROVIDE ACCESSORY DIMMING MOTION SENSOR. MOTION SENSOR SHALL BE SUITABLE FOR 250 POLE APPLICATIONS. PROVIDE 4" POLE MOUNT ARM. LUMINAIRE SHALL BE MOUNTED ON 20' HIGH X 4" SQUARE 0.12" THICK STEEL POLE WITH HAND HOLE AND TEXTURED BLACK FINISH. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE POLE STYLE TOP AND POLE DRILL PATTERN BASED ON THE NUMBER OF LUMINAIRE HEADS BEING PROVIDED ON THE POLES. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANCHOR BOLTS PER THE MANUFACTURER'S INSTALLATION REQUIREMENTS.	LED	7,400 LM	80	3000K	STANDARD 0-10V	NO	YES	INTEGRAL WIRELESS	UNV	51 WATTS	LITHONIA	DSX1 SERIES
RA2	RECESSED 24" W x 24" L x 4-1/2"H INDIRECT LUMINAIRE, CENTER SOFT WHITE ACRYLIC CENTER SHIELDING, COLD ROLLED STEEL HOUSING, WHITE ENAMEL FINISH. PROVIDE INTEGRAL NLIGHT AIR CONTROL INTERFACE AND INTEGRAL DUAL TECH SENSOR.	LED	3,500 LM	80	3500K	STANDARD 0-10V DIMMING	NO	YES	INTEGRAL WIRELESS	UNV	28 WATTS	MARK ARCHITECTURAL LIGHTING	WHISPER SERIES
RA2E	RECESSED 24" W x 24" L x 4-1/2"H INDIRECT LUMINAIRE, CENTER SOFT WHITE ACRYLIC CENTER SHIELDING, COLD ROLLED STEEL HOUSING, WHITE ENAMEL FINISH. PROVIDE INTEGRAL BATTERY PROVIDE INTEGRAL NLIGHT CONTROL INTERFACE FOR EMERGENCY CIRCUIT AND INTEGRAL DUAL TECH SENSOR.	LED	3,500 LM	80	3500K	STANDARD 0-10V DIMMING	YES INTEGRAL BATTERY	YES	INTEGRAL WIRELESS	UNV	28 WATTS	MARK ARCHITECTURAL LIGHTING	WHISPER SERIES
RA4	RECESSED 24" W x 48" L x 4-1/2"H INDIRECT LUMINAIRE, CENTER SOFT WHITE ACRYLIC CENTER SHIELDING, COLD ROLLED STEEL HOUSING, WHITE ENAMEL FINISH. PROVIDE INTEGRAL NLIGHT AIR CONTROL INTERFACE AND INTEGRAL DUAL TECH SENSOR.	LED	4,000 LM	80	3500K	STANDARD 0-10V DIMMING	NO	YES	INTEGRAL WIRELESS	UNV	31 WATTS	MARK ARCHITECTURAL LIGHTING	WHISPER SERIES
UC22	4"W x 22"L x 1" H UNDERCABINET TASK LIGHT WITH, ALUMINUM HOUSING, INTEGRATED HIGH/LOW/OFF SWITCH, WHITE FINISH.	LED	900 LM	90	3500K	STANDARD 0-10V DIMMING	NO	NO	LINE VOLTAGE	UNV	12 WATTS	KELVIX	UNICAB SERIES
UC40	4"W x 40"L x 1" H UNDERCABINET TASK LIGHT WITH, ALUMINUM HOUSING, INTEGRATED HIGH/LOW/OFF SWITCH, WHITE FINISH.	LED	1,400 LM	90	3500K	STANDARD 0-10V DIMMING	NO	NO	LINE VOLTAGE	UNV	20 WATTS	KELVIX	UNICAB SERIES
V2	24" W x 2-1/4" L x 3" H SURFACE MOUNTED VANITY LUMINAIRE WITH STEEL HOUSING, TEXTURED WHITE FINISH, CLEAR ACRYLIC DIFFUSER, TAMPER PROOF SCREW SET OPTION, AND DAMP LOCATION LISTED.	LED	1,200 LM	90	3500K	STANDARD 0-10V	NO	NO	LINE VOLTAGE	UNV	18 WATTS	TERON	VICEROY SLT SERIES
W1E	9" W x 8" H x 5.5" D WALL MOUNTED LUMINAIRE WITH DIE-CAST ALUMINUM HOUSING, FORWARD THROW DISTRIBUTION, TEXTURED BLACK FINISH, ACRYLIC LENSES, AND IP66 LISTED. PROVIDE INTEGRAL BATTERY.	LED	1,200 LM	70	3000K	STANDARD 0-10V DIMMING	YES INTEGRAL BATTERY	NO	INTEGRAL WIRELESS	UNV	24 WATTS	LITHONIA	WEDGE 1 SERIES
X1	SINGLE FACE EXIT SIGN WITH BRUSHED ALUMINUM HOUSING. RED LETTERS AND CHEVRONS, UL 924 LISTED, AND DAMP LOCATION LISTED. INTEGRAL NICKLE CADMIUM BATTERY WITH SELF DIAGNOSTICS. PROVIDE CHEVRONS WITH DIRECTIONS AS SHOWN ON THE DRAWINGS. PROVIDE MOUNTING OPTION AS SHOWN ON THE DRAWINGS.	LED	N/A	N/A	N/A	N/A	NO	NO	N/A	UNV	1 WATTS	ISOLITE	LPDC2 SERIES

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project: 01825
drawn by: JCL
checked by: DML

LUMINAIRE SCHEDULE

sheet: E-011

of:

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

EQUIPMENT	TAG	SHEET REF	ELECTRICAL								CONDUIT		CONDUCTORS			PANEL	CIRCUIT	LOCAL DISCONNECT	DISCONNECT RATING	NOTES
			VOLTAGE	PHASE	MCA	MOCP	HP	WATTS	FLA	FLA @ 125%	QTY	SIZE	UNGROUNDED	GROUNDED	GROUNDING					
HEAT PUMP	HP-1	E-101	208	1	19.9	25	-	-	-	-	1	0.75 INCH	2 - #10	-	1 - #10	DO-A	25,27	Yes	30 AS	-
HEAT PUMP	HP-2	E-101	208	1	19.9	25	-	-	-	-	1	0.75 INCH	2 - #10	-	1 - #10	DO-A	29,31	Yes	30 AS	-
HEAT PUMP	HP-3	E-101	208	1	19.9	25	-	-	-	-	1	0.75 INCH	2 - #10	-	1 - #10	DO-A	33,35	Yes	30 AS	-
HEAT PUMP	HP-4	E-101	208	1	11.6	15	-	-	-	-	1	0.75 INCH	2 - #12	-	1 - #12	DO-A	37,39	Yes	30 AS	-
HEAT PUMP	HP-5	E-101	208	1	11.6	15	-	-	-	-	1	0.75 INCH	2 - #12	-	1 - #12	DO-A	24,26	Yes	30 AS	-
HEAT PUMP	HP-6	E-101	208	1	11.6	15	-	-	-	-	1	0.75 INCH	2 - #12	-	1 - #12	DO-A	28,30	Yes	30 AS	-
FAN COIL UNIT	FC-1.1	E-101	-	-	-	-	-	-	-	-	1	0.75 INCH	-	-	-	-	-	No	-	1
FAN COIL UNIT	FC-1.2	E-101	-	-	-	-	-	-	-	-	1	0.75 INCH	-	-	-	-	-	No	-	1
FAN COIL UNIT	FC-2.1	E-101	-	-	-	-	-	-	-	-	1	0.75 INCH	-	-	-	-	-	No	-	1
FAN COIL UNIT	FC-2.2	E-101	-	-	-	-	-	-	-	-	1	0.75 INCH	-	-	-	-	-	No	-	1
FAN COIL UNIT	FC-3.1	E-101	-	-	-	-	-	-	-	-	1	0.75 INCH	-	-	-	-	-	No	-	1
FAN COIL UNIT	FC-3.2	E-101	-	-	-	-	-	-	-	-	1	0.75 INCH	-	-	-	-	-	No	-	1
FAN COIL UNIT	FC-4.1	E-101	-	-	-	-	-	-	-	-	1	0.75 INCH	-	-	-	-	-	No	-	1
FAN COIL UNIT	FC-5.1	E-101	-	-	-	-	-	-	-	-	1	0.75 INCH	-	-	-	-	-	No	-	1
FAN COIL UNIT	FC-6.1	E-101	-	-	-	-	-	-	-	-	1	0.75 INCH	-	-	-	-	-	No	-	1
TANKLESS WATER HEATER	WH-01	E-101	208	1	-	-	-	4,160	-	-	1	0.75 INCH	2 - #10	-	1 - #10	DO-A	32,34	Yes	30 AS	-
TANKLESS WATER HEATER	WH-02	E-101	208	1	-	-	-	4,160	-	-	1	0.75 INCH	2 - #10	-	1 - #10	DO-A	36,38	Yes	30 AS	-
TANKLESS WATER HEATER	WH-03	E-101	208	1	-	-	-	14,150	-	-	1	1.25 INCH	2 - #4	-	1 - #8	DO-A	40,42	Yes	100 AS	-
ENERGY RECOVERY...	ERV-1	E-101	208	1	6.2	15	-	-	-	-	1	0.75 INCH	2 - #12	-	1 - #12	DO-A	41,43	Yes	30 AS	-
ELECTRIC DUCT HEATER	EDH-1	E-101	208	1	-	-	-	2,000	-	-	1	0.75 INCH	2 - #12	-	1 - #12	DO-A	44,46	Yes	30 AS	-
RADON EXHAUST FAN	REF-1	E-101	120	1	-	-	-	169	-	-	1	0.75 INCH	1 - #12	1 - #12	1 - #12	DO-A	45	Yes	30 AS	-

NOTES:
[1] FAN COIL UNITS FED FROM HEAT PUMP UNITS. PROVIDE 0.75" CONDUIT BETWEEN INDOOR AND OUTDOOR UNITS AND INSTALL WIRING PER MANUFACTURERS INSTRUCTIONS.

POWER CONDUIT / CONDUCTOR SCHEDULE

CONDUIT ID NO.	CONDUIT		CONDUCTORS PER CONDUIT					FROM	TO	DESCRIPTION	NOTES
	QUANTITY	SIZE	UNGROUNDED	GROUNDED	GROUNDING	CABLE	SPARE				
P101	1	3.0 INCH	6 - #2/0	2 - #2/0	1 - #3	-	-	(E) MAIN SERVICE PANEL	PANEL DO-A	-	1,2

NOTES:
[1] INSTALL IN EXISTING CONDUIT BETWEEN EXISTING SERVICE SWITCHBOARD AND IN GROUND JUNCTION BOX AS SHOWN ON THE DRAWINGS. PROVIDE NEW CONDUIT AND WIRING FROM JUNCTION BOX TO NEW PANEL DO-A.
[2] CONDUCTORS ARE RATED FOR 273 AMPS AFTER DERATING AT 70% FOR MULTIPLE CURRENT CARRYING CONDUCTORS IN A SINGLE RACEWAY PER NEC TABLE 310.15 (c) (1). THE DERATING CALCULATION WAS APPLIED USING THE 90-DEGREE AMPACITY COLUMN FOR COPPER CONDUCTORS WITH THWN-2 INSULATION PER NEC TABLE 310.16. THE GROUNDING CONDUCTOR WAS UPSIZED AS REQUIRED BY NEC 250.122 (b).

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MAY 08, 2012
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EXPIRES: 12-31-2026

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AMITY, OREGON 97101

consultants:

revisions:

Description	Date

date: 10-03-25
project: 01825
drawn by: JCL
checked by: DML

ELECTRICAL SCHEDULES

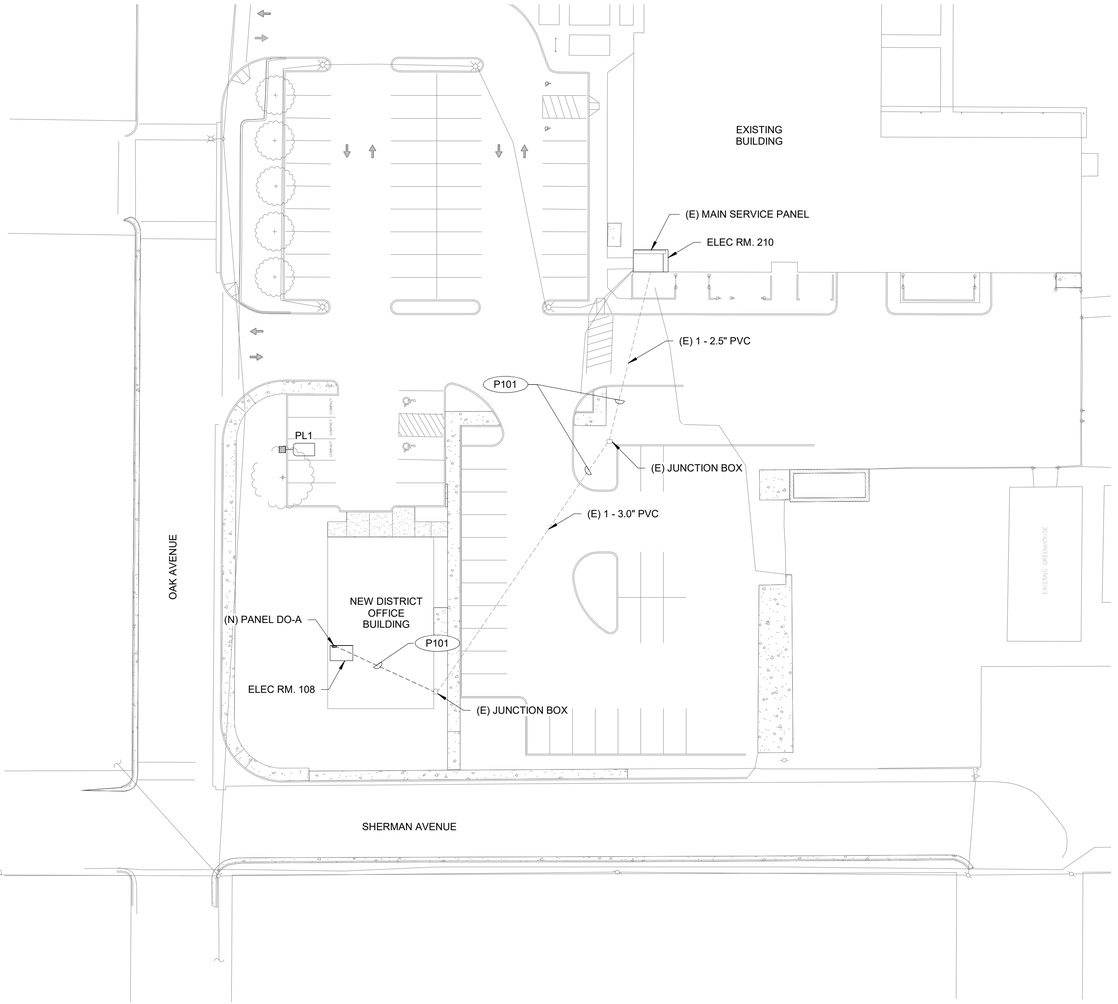
sheet: E-012

of:

Attachment A

GENERAL SHEET NOTES

1. COORDINATE ALL ELECTRICAL SITE WORK WITH CIVIL & ARCHITECTURAL DRAWINGS.



1 ELECTRICAL SITE PLAN
1" = 30'-0"

0' 15' 30'

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ELECTRICAL SITE PLAN

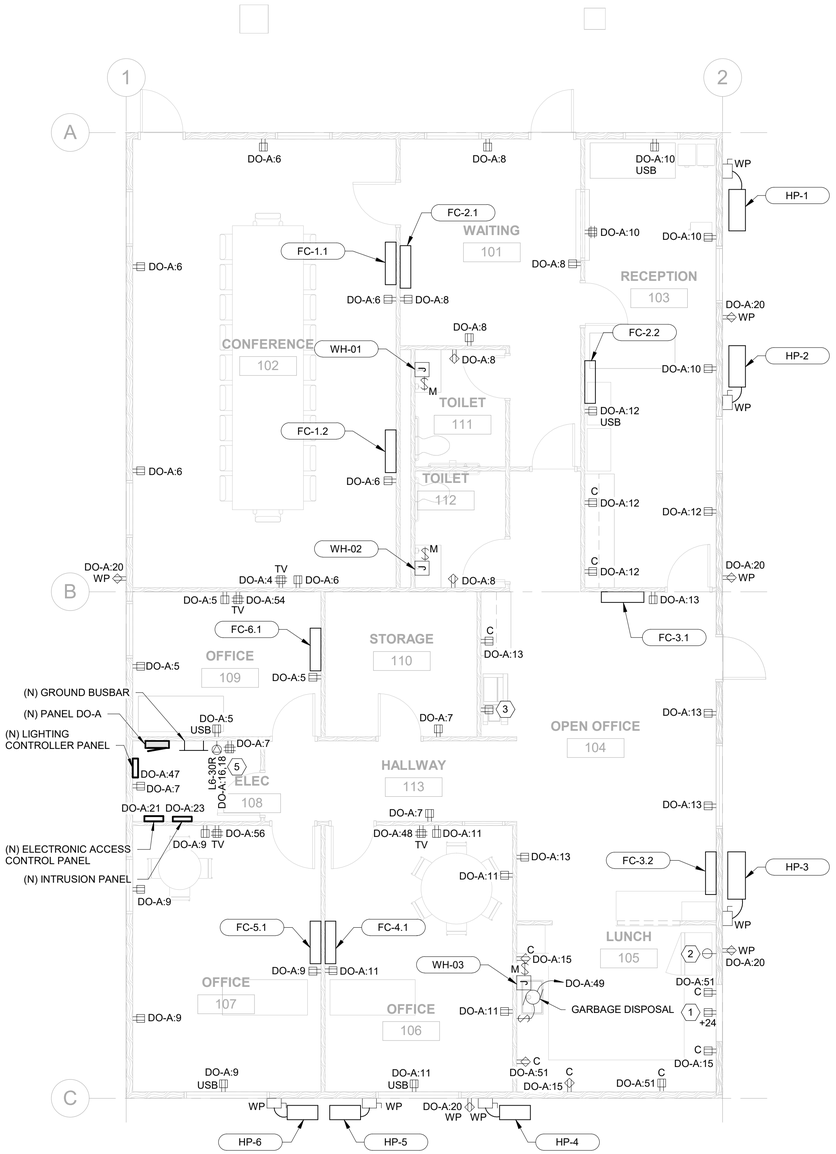
sheet: E-100
of:

GENERAL SHEET NOTES

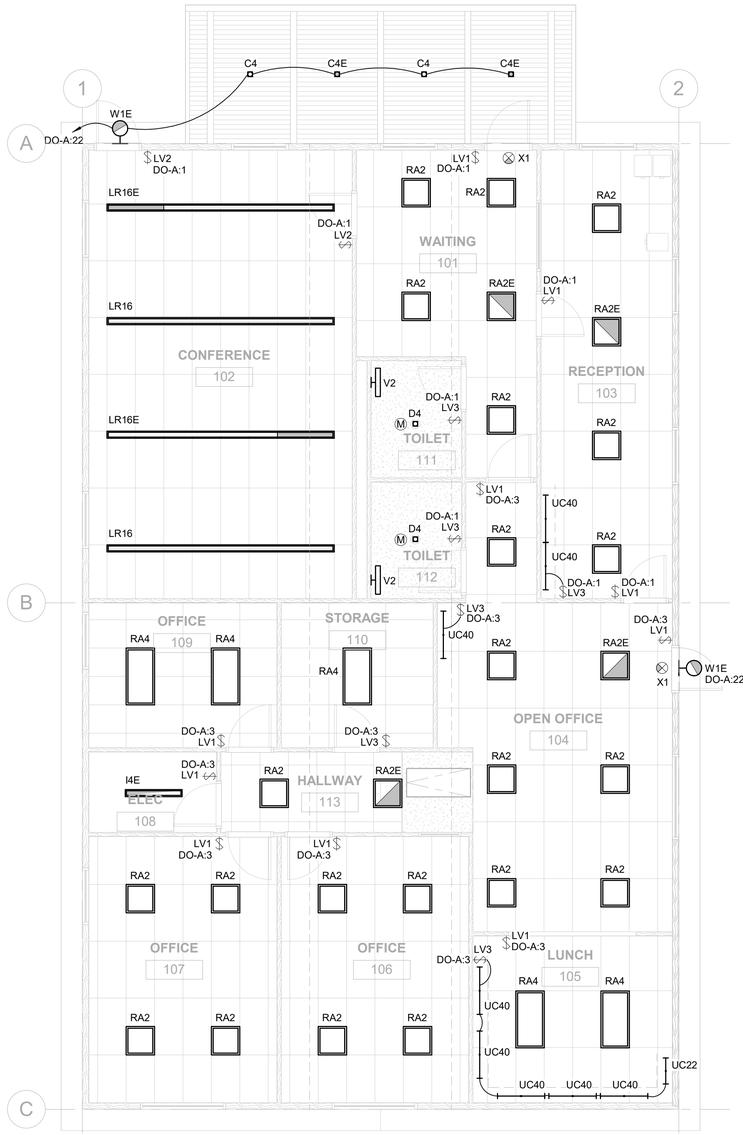
1. REFERENCE LUMINAIRE SCHEDULE ON SHEET E-011 FOR LUMINAIRE INFORMATION.
2. WIRE ALL EXIT SIGNS ON THIS SHEET TO PANEL DO-A, CIRCUIT #2. AHEAD OF ALL SWITCHING.
3. REFERENCE MECHANICAL CONNECTION SCHEDULE ON SHEET E-011 FOR ALL MECHANICAL EQUIPMENT POWER CONNECTIONS.

SHEET KEY NOTES

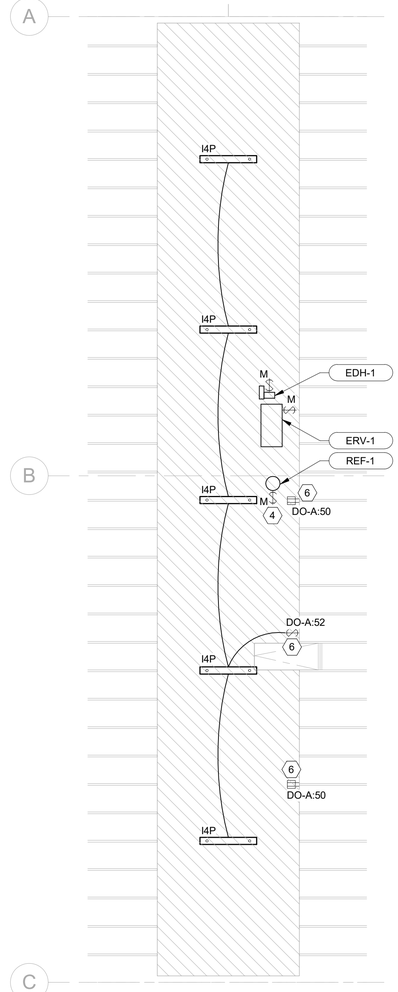
1. DEDICATED RECEPTACLE FOR MICROWAVE, WIRE TO PANEL DO-A, CIRCUIT #17.
2. DEDICATED RECEPTACLE FOR REFRIGERATOR, WIRE TO PANEL DO-A, CIRCUIT #19.
3. DEDICATED RECEPTACLE FOR COPIER, WIRE TO PANEL DO-A, CIRCUIT #14.
4. PROVIDE LABELING AS INDICATED ON MECHANICAL DRAWINGS.
5. PROVIDE 2 - #10, 1 - #10G IN 3/4" CONDUIT.
6. MOUNT RECEPTACLE AND LIGHT SWITCH TO NEAREST STRUCTURAL FRAMING MEMBER.



1 POWER PLAN
3/16" = 1'-0"



2 LIGHTING PLAN
3/16" = 1'-0"



3 ATTIC ELECTRICAL PLAN
3/16" = 1'-0"

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date: 10-03-25
project: 01825
drawn by: JCL
checked by: DML

POWER & LIGHTING PLAN

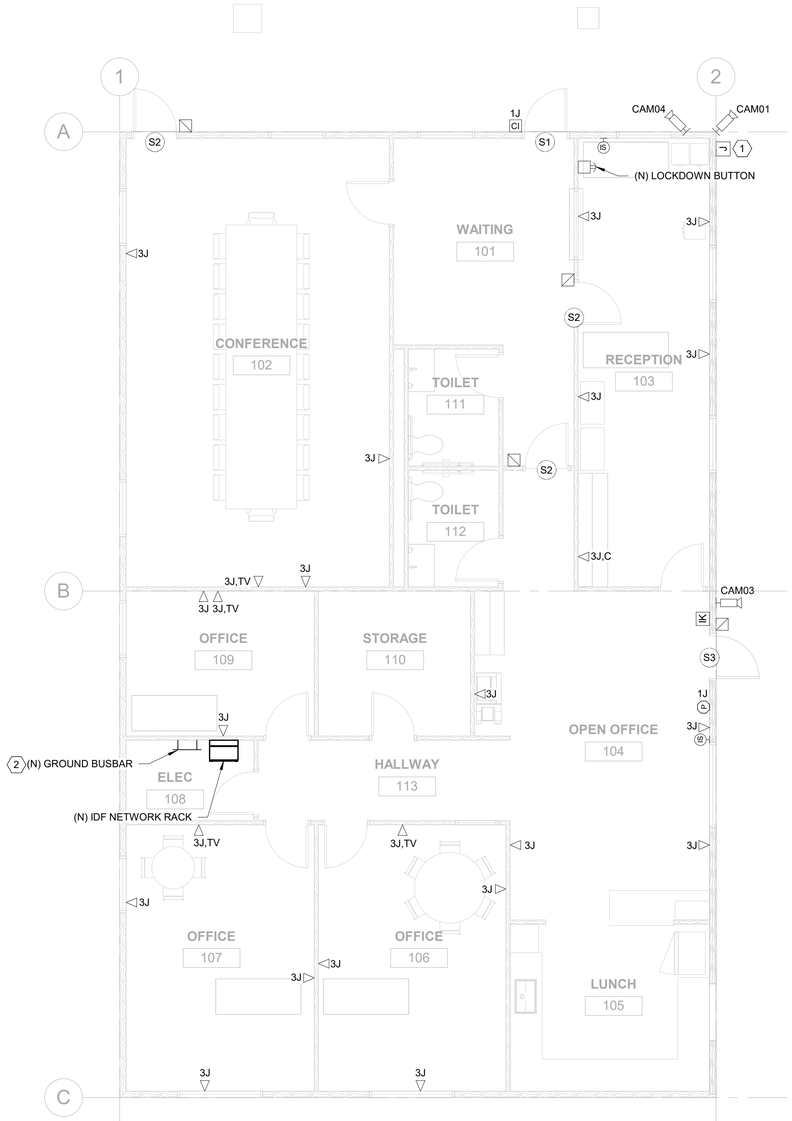
sheet: E-101
of:

GENERAL SHEET NOTES

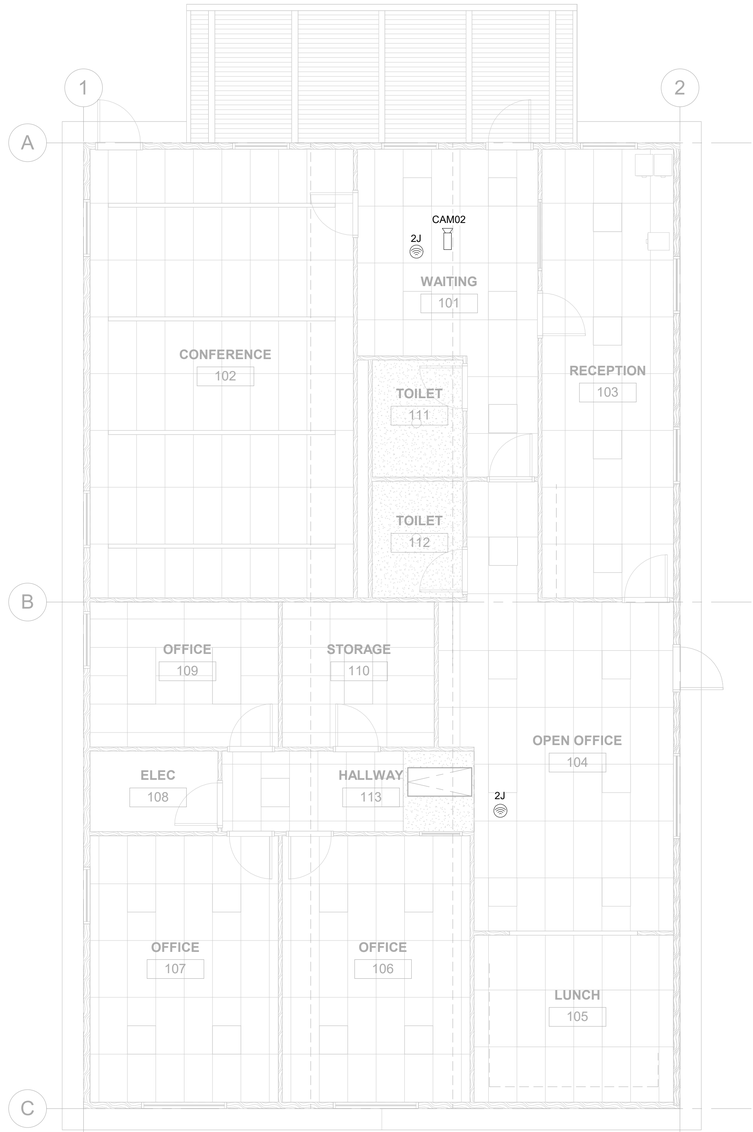
1. SEE ACCESS CONTROL DETAILS ON SHEET E-201 FOR A COMPLETE DETAIL OF ACCESS CONTROL DOOR COMPONENTS, WIRING AND CONDUITS. NOT ALL ACCESS CONTROL DEVICES SHOWN ON PLANS FOR CLARITY.
2. SEE SECURITY DETAILS AND VIDEO SURVEILLANCE CAMERA SCHEDULE ON SHEET E-201 FOR ADDITIONAL DETAILS.

SHEET KEY NOTES

1. OFOI POINT TO POINT WIRELESS ACCESS POINT. PROVIDE EXTERIOR MOUNTED WATER PROOF BELL BOX AND CAT6 HORIZONTAL BACKBONE CABLE BACK TO NETWORK RACK IN ELEC 108. CONTRACTOR SHALL PROVIDE LIQUID-TIGHT FLEXIBLE CONDUIT FOR CABLING TO CONNECT FROM THE BELL BOX TO THE ACCESS POINT. COORDINATE INSTALLATION WITH OWNER.
2. PROVIDE GROUNDING CONNECTION FROM RACK TO GROUND BUS. PROVIDE 1 - #2 STRANDED COPPER.



1 TECHNOLOGY PLAN
3/16" = 1'-0"



2 CEILING TECHNOLOGY PLAN
3/16" = 1'-0"

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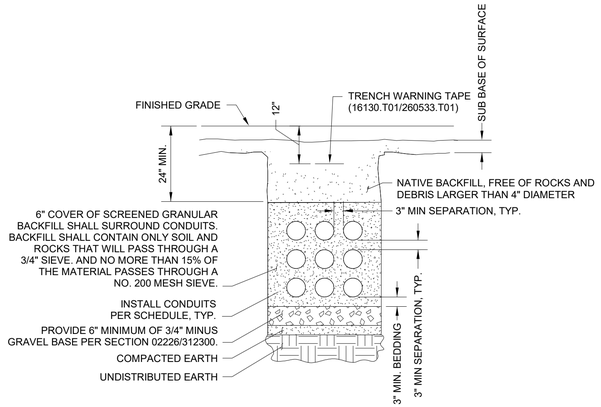
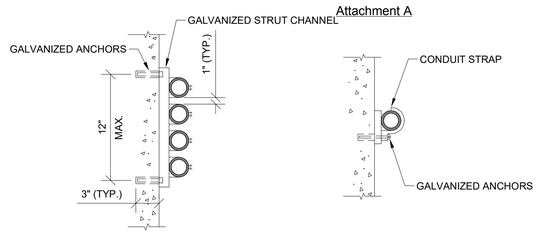
TECHNOLOGY PLAN

sheet: E-102
of:



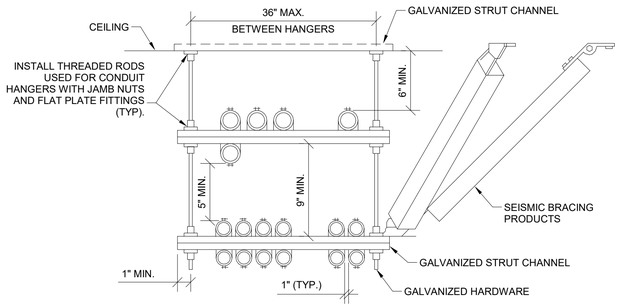
1 UNDERGROUND DUCT BANK DETAIL
NTS

Attachment A



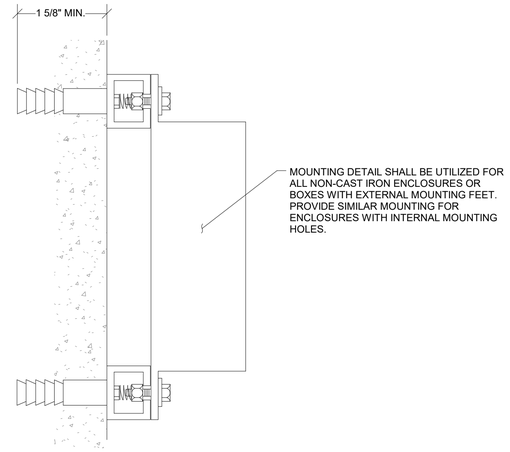
WALL MOUNTED

CEILING OR WALL MOUNTED

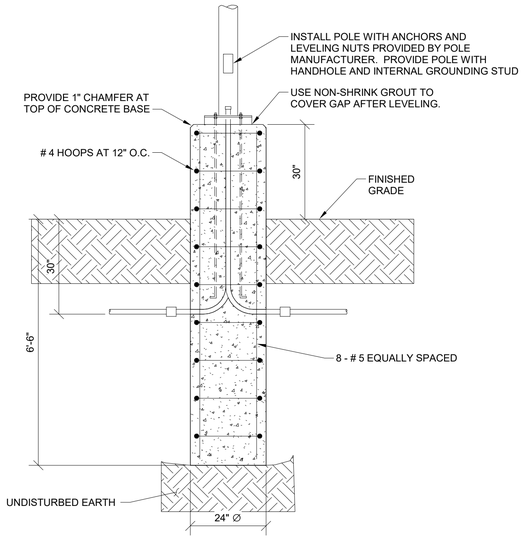


TRAPEZE MOUNTED

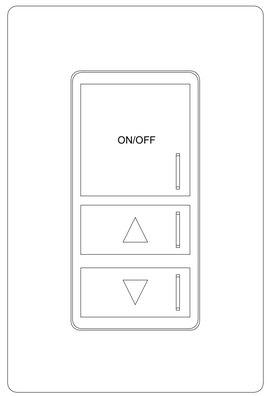
2 CONDUIT MOUNTING DETAIL
NTS



3 ENCLOSURE MOUNTING DETAIL
NTS

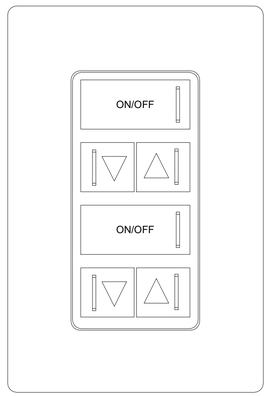


4 ROADWAY LIGHTING POLE BASE DETAIL
NTS



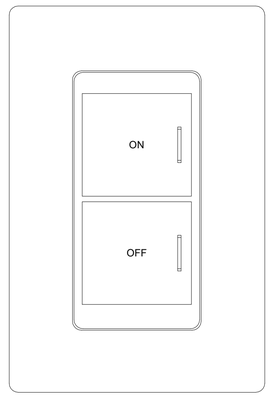
PART#: rPODMA DX
STYLE: 1-ZONE, ON/OFF, RAISE/LOWER
TAG: LV1

5 SINGLE ZONE DIMMING
NTS



PART#: rPODMA 2P DX
STYLE: 2-ZONE, ON/OFF, RAISE/LOWER
TAG: LV2

6 TWO ZONE DIMMING
NTS



PART#: rPODMA
STYLE: 1-ZONE, ON/OFF
TAG: LV3

7 SINGLE ZONE ON/OFF
NTS

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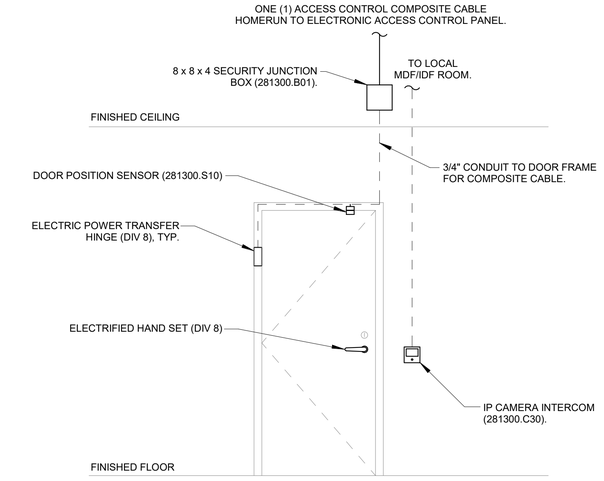
	Description	Date

date: 10-03-25
project: 01825
drawn by: JCL
checked by: DML

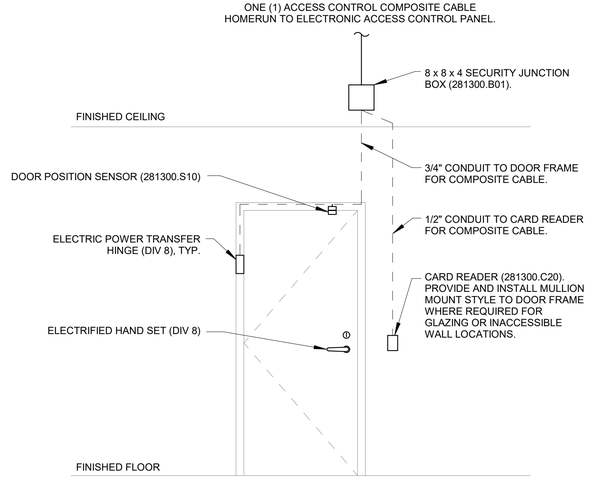
ELECTRICAL
DETAILS

sheet: E-200

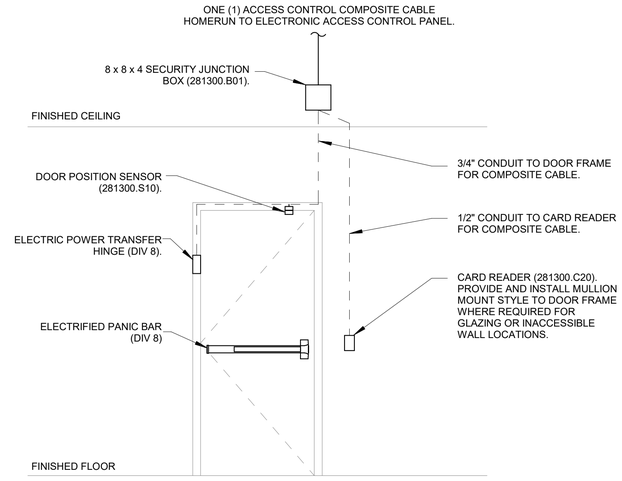
of:



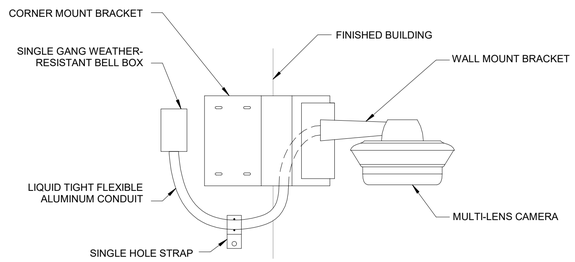
S1 CAMERA INTERCOM, ELECTRIC LOCKSET, DOOR CONTACT
NTS



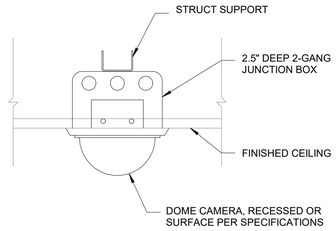
S2 CARD READER, ELECTRIC LOCKSET, DOOR CONTACT
NTS



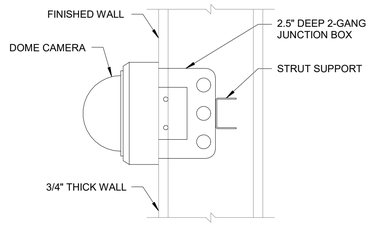
S3 CARD READER, ELECTRIC PANIC BAR, ELECTRIC POWER TRANSFER, DOOR CONTACT
NTS



1 CORNER MOUNT CAMERA DETAIL
1 1/2" = 1'-0"



2 RECESSED MOUNT CAMERA DETAIL
1 1/2" = 1'-0"



3 WALL MOUNT CAMERA DETAIL
1 1/2" = 1'-0"

VIDEO SURVEILLANCE CAMERA SCHEDULE

CAMERA ID	SHEET REF	CAMERA FIELD OF VIEW	CAMERA MOUNTING	CAMERA TYPE	MOUNTING HEIGHT
CAM01	E-102	NORTHEAST EXTERIOR	WALL MOUNTED	SINGLE LENS	12'-0"
CAM02	E-102	WAITING 101	CEILING MOUNTED	MULTI LENS	-
CAM03	E-102	EAST EXTERIOR	WALL MOUNTED	SINGLE LENS	12'-0"
CAM04	E-102	NORTHEAST EXTERIOR	WALL MOUNTED	SINGLE LENS	12'-0"

NOTES:
[1] ALL CAMERAS TO BE PROVIDED WITH TWO (2) CAT6 HORIZONTAL CABLES.
[2] OWNER SHALL PROVIDE ALL REQUIRED MOUNTING ACCESSORIES FOR THE MOUNTING TYPE INDICATED. ACCESSORIES SHALL BE BY THE SAME MANUFACTURER AS THE CAMERA MANUFACTURER AND APPROVED FOR THE SPECIFIED CAMERA MODEL.
[3] CAMERAS SHALL BE OWNER FURNISHED, OWNER INSTALLED. CONTRACTOR SHALL PROVIDE CONDUIT, BOXES AND CABLING REQUIRED FOR FINAL INSTALLATION.

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project: 01825
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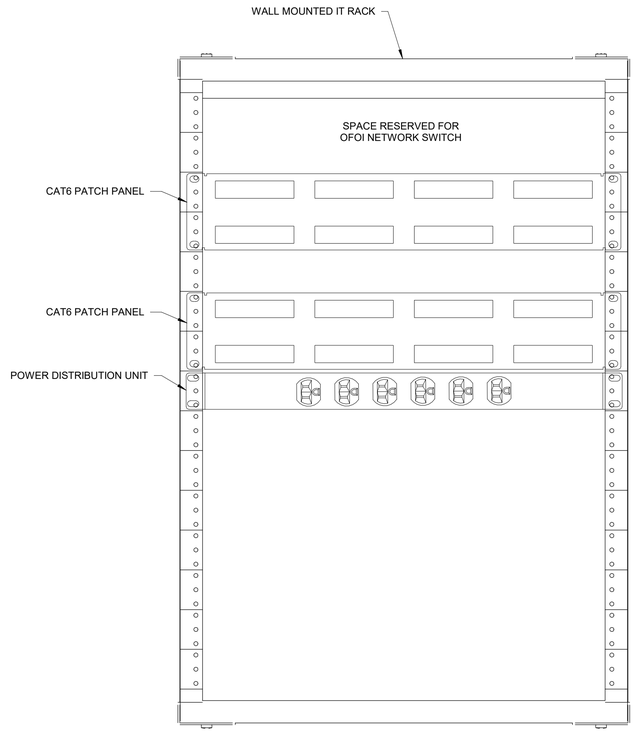
SECURITY DETAILS

sheet: E-201
of:

Attachment A



1 IDF RACK ELEVATION
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checked by: DML

IDF RACK
ELEVATION

sheet: E-202

of:

Attachment A

PANEL NAME: PANEL DO-A
VOLT/PHASE: 208/120V, 3Ø
NUM. POLES: 72
A/C RATING: 42,000
NOTES: NEW PANEL
REF. KEY NOTE #:

LOCATION: ELEC. 108
FED FROM: (E) MAIN SERVICE PANEL
BREAKER MOUNTING: BOLTED
MAIN LUGS ONLY
BUS RATING AMPS: 400
SPD: YES

NOTES	LOAD DESCRIPTION	LOAD TYPE	VA L1	VA L2	VA L3	TRIP RATING AMPS	CIRCUIT NUMBER	CIRCUIT NUMBER	TRIP RATING AMPS	VA L1	VA L2	VA L3	LOAD TYPE	LOAD DESCRIPTION	NOTES
	LIGHTS RM. 101,102,103,111,112	L	730			20	1	2	20	2			L	EXIT SIGNS	
	LIGHTS RM. 104,105,106,107,108,109,110,113	L		815		20	3	4	20		360		R	TV RECEPTACLE RM. 102	
	RECEPTACLES RM. 109	R			720	20	5	6	20			1,080	R	RECEPTACLE RM. 102	
	RECEPTACLES RM. 108,110,113	R	900			20	7	8	20	1,080			R	RECEPTACLES RM. 101,111,112	
	RECEPTACLES RM. 107	R		900		20	9	10	20		720		R	RECEPTACLES RM. 103	
	RECEPTACLES RM. 106	R			900	20	11	12	20			720	R	RECEPTACLES RM. 103	
	RECEPTACLES RM. 104	R	900			20	13	14	20	600			E	COPIER RM. 104	
	RECEPTACLES RM. 105	R		540		20	15	16	30		1,200		R	IT RACK NEMA RECEPTACLE RM. 108	
	MICROWAVE RM. 105	A			600	20	17	18				1,200	R		
1	REFRIGERATOR RM. 105	A	1,200			20	19	20	20	720			R	EXTERIOR RECEPTACLE	
	ACCESS CONTROL PANEL RM. 108	E		600		20	21	22	20		140		L	NORTH/EAST EXTERIOR LIGHTS	
	INTRUSION PANEL RM. 108	E			600	20	23	24	15			1,206	H	HEAT PUMP HP-5	
	HEAT PUMP HP-1	H	2,069			25	25	26		1,206			H		
		H		2,069			27	28	15		1,206		H	HEAT PUMP HP-6	
	HEAT PUMP HP-2	H			2,096	25	29	30				1,206	H		
		H	2,096				31	32	30	2,080			H	TANKLESS WATER HEATER WH-01 RM. 111	
	HEAT PUMP HP-3	H		2,096		25	33	34			2,080		H		
		H			2,096		35	36	30			2,080	H	TANKLESS WATER HEATER WH-02 RM. 112	
	HEAT PUMP HP-4	H	1,206			15	37	38		2,080			H		
		H		1,206			39	40	70		7,075		H	TANKLESS WATER HEATER WH-03 RM. 105	
	ENERGY RECOVERY VENTILATOR ERV-1 RM. 112	H			644	15	41	42				7,075	H		
		H	644				43	44	15	1,000			H	ELECTRIC DUCT HEATER EDH-1 RM. 112	
	RADON EXHAUST FAN REF-1 RM. 112	H		169		20	45	46			1,000		H		
	LIGHTING CONTROL PANEL RM. 108	E			600	20	47	48	20			360	R	TV RECEPTACLE RM. 106	
	GARBAGE DISPOSAL RM. 105	M	600			20	49	50	20	360			R	ATTIC RECEPTACLES	
	RECEPTACLES RM. 105	R		360		20	51	52	20		160		L	ATTIC LIGHTS	
	SPARE				-	20	53	54	20			360	R	TV RECEPTACLE RM. 109	
	SPARE		-			20	55	56	20	360			R	TV RECEPTACLE RM. 107	
	SPARE			-		20	57	58	20		-			SPARE	
	SPARE				-	20	59	60	20			-		SPARE	
	SPARE		-			20	61	62	20	-				SPARE	
	SPARE			-		20	63	64	20		-			SPARE	
	SPARE				-	20	65	66	20			-		SPARE	
	SPARE		-			20	67	68		10			R		
	SPARE			-		20	69	70	30		10		R	SURGE PROTECTION DEVICE	
	SPARE				-	20	71	72				10	R		

TOTAL LOAD:	10,345	8,755	8,256
COMBINED LOAD:	19,843	22,706	23,553

TOTAL LOAD:	9,498	13,951	15,297

CONNECTED LOAD: 66,102
DEMAND LOAD: 64,679
DEMAND AMPS: 180

Load Type Key		Demand Factor	Connected Load	Demand Load	
R	General Purpose Receptacle	100% First 10kVA, 50% thereafter	13,770	11,885	
L	Lighting	125% Load	1,847	2,309	
M1	Largest Motor	125% Load	0	0	
M	Motor	100% Load	600	600	
A	Appliance	100% Load	1,800	1,800	
H	HVAC	100% Load	45,685	45,685	
K	Kitchen	100% Load	0	0	XX - Units of Equipment - See NEC Table 220.56
E	Equipment	100% Load	2,400	2,400	
T	Transformer	100% Load	0	0	
W	Welder	100% Load	0	0	
RV	Recreational Vehicle	100% Load	0	0	XX - RV Sites - See NEC Table 551.71 (A)

NOTES:
[1] PROVIDE GFCI TYPE CIRCUIT BREAKER.

FACET ARCHITECTS
Formerly Carlson Veit Junge Architects
3095 River Road N Salem, OR 97303 / 503.390.0281

REGISTERED PROFESSIONAL ENGINEER
86683
Digitally Signed
OREGON
MAY 08, 2012
BENJAMIN E. PERRY
EXPIRES: 12-31-2026

LANDIS CONSULTING
Salem
503-584-1576
www.landisconsulting.com

project:
AMITY SCHOOL DISTRICT
DISTRICT OFFICE BUILDING
503 OAK AVENUE
AMITY, OREGON 97101

consultants:

revisions:

#	Description	Date

date: 10-03-25
project: 01825
drawn by: JCL
checked by: DML

PANEL SCHEDULE

sheet: E-300
of:

AMITY SCHOOL DISTRICT
DISTRICT OFFICE PROJECT
PRE-PROPOSAL CONFERENCE SIGN IN
NOVEMBER 18, 2025

Company: Gerding Builders Contact: Stacy Rodgers
Address: 200 SW Airport Ave., Corvallis, OR 97333
Email: stacyr@gerdingbuilders.com
Phone: 541-753-2012 Cell: 541-745-4011

Company: CB Const, INC Contact: Derek Howard
Address: 1202 Adams Ave., La Grande, OR 97850
Email: dhoward@cbconst.us
Phone: 541-663-4188 Cell: 541-786-5315

Company: Rich Parr Contractors Contact: Rich
Address: PO Box 205
Email: yamaparr@hotmail.com
Phone: 971-237-2481 Cell: _____

Company: Haworth Inc. Contact: Troy Haworth
Address: 13500 OR-99W, McMinville, OR 97128
Email: troy@haworthinc.net and taylor@haworthinc.net
Phone: 503-550-3272 Cell: same

Company: Robinson Construction Co Contact: Leo Bogatyrenko
Address: 8060 NE Walker Rd., Hillsboro, OR 97124
Email: bids@robcon.com
Phone: 971-464-6218 Cell: _____

Company: Triplett Wellman Contact: Nick Wellman
Address: 1717 Mt.Jefferson Ave, Woodburn, OR 97071
Email: nick@triplettwellman.com
Phone: _____ Cell: _____

The District will only accept Proposals from those firms who signed in at the Mandatory Pre-Proposal Conference. The District will not accept responses where an attendee subrogates their attendance to a firm not in attendance.

Company: Brockamp & Jaeger Contact: Craig Shearmire
Address: 15796 S Boardwalk St., Oregon City, OR 97045
Email: craigs@brockamp-jaeger.com
Phone: 503-655-9151 Cell: 503-849-2576

Company: P & C Construction Contact: Braeden Bittner
Address: 2133 NW York Street, Portland, OR 97210
Email: bbittner@builtbypandc.com
Phone: 503-665-0165 Cell: 971-343-6143

Company: Cedar Mill Construction Company Contact: Will Turner
Address:
Email: will.turner@cedarmillcc.com
Phone: 503-332-6458 Cell:

Company: Inline Construction Contact: Ted Jeffery
Address: 18880 SW Shaw St., Aloha, OR 97078
Email: tedj@inlinecc.com
Phone: 503-642-5117 Cell: 503-302-3123

Company: Kirby Nagelhout Contact: Shannon Stoiner
Address: 9965 SW Arctic Drive, Portland, OR 97005
Email: shannons@kirbynagelhout.com
Phone: 503-530-8420 Cell: 909-576-5099

Company: Contact:
Address:
Email:
Phone: Cell:

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