# The Chehalis Tribe Elder Center

BID DOCUMENTS

arc ARCHITECTS
119 S MAIN ST
SUITE 200
SEATTLE, WA
98104-2579
206 322 3322

The Chehalis Tribe
Chehalis Elders Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:

**COVER**

SCALE:
DRAWN: AJ, CS
CHECKED: PRC
PROJECT NO: 2020006.100

SHEET:
**T0.0**

# The Chehalis Tribe Elder Center

## BID DOCUMENTS


a|r|c ARCHITECTS

119 S MAIN ST
SUITE 200
SEATTLE, WA
98104-2579
206 322 3322


## GOVERNING CODES

2018 INTERNATIONAL BUILDING CODE

ICC/ANSI 1171-2009 ACCESSIBILITY CODE

2018 ENERGY CODE

2018 INTERNATIONAL MECHANICAL CODE

2018 UNIFORM PLUMBING CODE

2018 NATIONAL ELECTRICAL CODE

2018 UNIFORM FIRE CODE

## VICINITY MAP

## DESIGN TEAM


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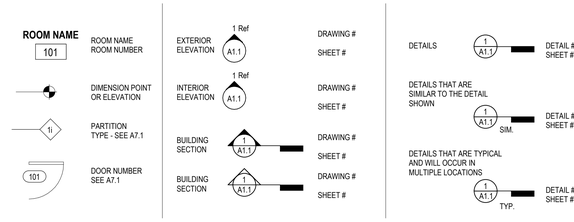
## GENERAL NOTES

1. DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY AND WHAT IS CONTAINED IN ONE SHALL BE CONSIDERED TO BE INCLUDED IN BOTH.
2. THE CONTRACT DOCUMENTS ARE COMPRISED OF THE DRAWINGS, PROJECT MANUAL AND ADDENDA (IF ANY). THE CONTRACT DOCUMENTS ARE CONSIDERED INCOMPLETE UNLESS ALL ELEMENTS LISTED ARE PRESENT.
3. IN THE CASE OF A CONFLICT BETWEEN ANY ASPECT OF THE CONTRACT DOCUMENTS AND ANOTHER, CONTACT THE ARCHITECT IMMEDIATELY FOR DIRECTION.
4. ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND ORDINANCES. IF A CONFLICT ARISES BETWEEN WHAT IS SHOWN IN THE CONTRACT DOCUMENTS AND AN APPLICABLE CODE, PROMPTLY NOTIFY ARCHITECT FOR DETERMINATION OF HOW TO PROCEED
5. DO NOT SCALE DRAWINGS
6. PERFORM EXCAVATION & FOUNDATION WORK IN CONFORMANCE WITH THE SOILS REPORT AND CONSTRUCTION DOCUMENTS
7. DRAWINGS INDICATE GENERAL & TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER, TYPICAL DETAILS SHALL APPLY.

## LEGEND




## ABBREVIATIONS

| | |
|---|---|
| ∠ | ANGLE |
| ℄ | CENTER LINE |
| # | NUMBER |
| ⅊ | PROPERTY LINE |
| A.B. | ANCHOR BOLT |
| A/C | AIR CONDITIONING |
| A.C.T. | ACOUSTICAL TILE CEILING |
| ADJ. | ADJACENT |
| A.F.F. | ABOVE FINISH FLOOR |
| ALT. | ALTERNATE |
| ARCH. | ARCHITECT(URAL) |
| AVG. | AVERAGE |
| A.W.P. | ACOUSTICAL WALL PANEL |
| BD. | BOARD |
| BLK'G. | BLOCKING |
| BOT. | BOTTOM |
| CAB. | CABINET |
| C.B. | CATCH BASIN |
| C.F. | CUBIC FEET |
| C.J. | CONTROL JOINT |
| CLG. | CEILING |
| CLR. | CLEAR(ANCE) |
| C.M.U. | CONCRETE MASONRY UNIT |
| C.O. | CLEAN OUT |
| COL. | COLUMN |
| CONC. | CONCRETE |
| CONT. | CONTINUOUS |
| COORD. | COORDINATE |
| CPT. | CARPET |
| C.T. | CERAMIC TILE |
| C.Y. | CUBIC YARDS |
| D.F. | DRINKING FOUNTAIN |
| D.H. | DOUBLE HUNG |
| DIM. | DIMENSION |
| DISP. | DISPENSER |
| DIV. | DIVISION |
| DN. | DOWN |
| DR. | DOOR |
| D.S. | DOWN SPOUT |
| DWG. | DRAWING |
| E. | EAST (COORDINATE) |
| EA. | EACH |
| E.B. | EXPANSION BOLT |
| E.J. | EXPANSION JOINT |
| ELEC. | ELECTRICAL |
| ELEV. | ELEVATION |
| ENCL. | ENCLOSURE |
| EQ. | EQUAL |
| EQUIP. | EQUIPMENT |
| E.W.C. | ELECTRIC WATER COOLER |
| EXT. | EXTERIOR |
| F.A. | FIRE ALARM |
| F.C.O. | FLOOR CLEANOUT |
| F.D. | FLOOR DRAIN |
| F.E. | FIRE EXTINGUISHER |
| F.E.C. | FIRE EXTINGUISHER CABINET |
| F.F. | FINISH FLOOR |
| F.F.E. | FINISH FLOOR ELEVATION |
| F.S. | FROM SLAB |
| F.H. | FIRE HYDRANT |
| FIN. | FINISH |
| FND. | FOUNDATION |
| F.O.C. | FACE OF CONCRETE |
| F.O.F. | FACE OF FOUNDATION |
| F.O.I.C. | FURNISHED BY OWNER / INSTALLED BY CONTRACTOR |
| F.O.I.O | FURNISHED BY OWNER/ INSTALLED BY OWNER |
| F.O.M | FACE OF MASONRY |
| F.O.S. | FACE OF STUD OR STRUCTURE |
| F.P. | FIRE PROOF |
| F.PLY | FINISH PLYWOOD |
| GA. | GUAGE |
| GALV. | GALVANIZED |
| G.C. | GENERAL CONTRACTOR |
| GLULAN | GLUE LAMINATED |
| GND. | GROUND |
| GR. | GRADE |
| G.W.B. | GYPSUM WALLBOARD |
| H.B. | HOSE BIB |
| H.C. | HOLLOW CORE |
| HDBD. | HARDBOARD |
| HDR. | HEADER |
| HDWR. | HARDWARE |
| HDWD. | HARDWOOD |
| H.M. | HOLLOW METAL |
| H.V.A.C | HEATING / VENTILATION / AIR CONDITIONING |
| I.D. | INSIDE DIAMETER (DIM.) |
| INSUL | INSULATED / INSULATION |
| INT. | INTERIOR |
| JT. | JOINT |
| KIT. | KITCHEN |
| LAF | LIQUID-APPLIED MEMBRANE FLASHING |
| L.F. | LINEAL FEET |
| L.T.WT. | LIGHT WEIGHT |
| MAS. | MASONRY |
| M.B. | MACHINE BOLT |
| M.B. | MARKER BOARD |
| M.D.F. | MEDIUM DENSITY FIBERBOARD |
| M.D.O. | MEDIUM DENSITY OVERLAY |
| M.D.X. | MEDIUM DENSITY EXTERIOR OVERLAY |
| MECH. | MECHANICAL |
| MEMB. | MEMBRANE |
| MFG. | MANUFACTURING |
| MFR. | MANUFACTURER |
| MIN. | MINIMUM |
| MIR. | MIRROR |
| M.O. | MASONRY OPENING |
| MTL. | METAL |
| N. | NORTH |
| N.I.C. | NOT IN CONTRACT |
| NOM. | NOMINAL |
| N.T.S. | NOT TO SCALE |
| O.C. | ON CENTER |
| O.H. | OPPOSITE HAND |
| OPN'G. | OPENING |
| OPP. | OPPOSITE |
| PERF. | PERFORATED |
| P.L. | PROPERTY LINE |
| P-LAM. | PLASTIC LAMINATE |
| PR. | PAIR |
| PT. | PINT, POINT |
| P.T. | PRESSURE TREATED |
| PTD. | PAINTED |
| PTN. | PARTITION |
| P.V.C. | POLYVINYL CHLORIDE PIPE |
| Q.T. | QUARRY TILE |
| R. | RADIUS, RISER |
| REF. | REFER(ENCE) |
| REFR. | REFRIGERATOR |
| REINF. | REINFORCED |
| RESIL. | RESILIENT |
| REV. | REVISION, REVISED |
| R.O. | ROUGH OPENING |
| RWL | RAIN WATER LEADER |
| S. | SOUTH |
| SAM | SELF-ADHERED MEMBRANE |
| S.C. | SOLID CORE |
| S.C.D. | SEAT COVER DISPENSER |
| S.D. | SOAP DISPENSER, STORM DRAIN |
| S.F. | SQUARE FEET |
| SHT. | SHEET |
| SHWR. | SHOWER |
| SIM. | SIMILAR |
| S.N.D. | SANITARY NAPKIN DISPENSER |
| S.N.R. | SANITARY NAPKIN RECEPACLE |
| S.S. | STAINLESS STEEL |
| S.S.P. | STAINLESS STEEL WALL PANEL |
| STL. | STEEL |
| STA. | STATION |
| S.T.C | SOUND TRANSMISSION CLASS |
| ST.S. | STANDING SEAM |
| SUB. | SUBSTITUTE |
| SUSP. | SUSPENDED |
| SV | SHEET VINYL |
| SYM. | SYMMETRICAL |
| SYS. | STYSTEM |
| T. | TREAD |
| TB | TACK BOARD |
| T.O.C. | TOP OF CURB |
| TEL. | TELEPHONE |
| TER | TERRAZZO |
| T.O.P. | TOP OF PLATE OR PAVEMENT |
| T.P.D. | TOILET PAPER DISPENSER |
| T.O.W. | TOP OF WALL |
| TYP. | TYPICAL |
| UNF. | UNFINISHED |
| U.O.N. | UNLESS OTHERWISE NOTED |
| V. | VENT |
| V.B. | VAPOR BARRIER |
| V.C.T. | VINYL COMPOSITION TILE |
| W. | WEST, EIDTH |
| W.C. | WATER CLOSET |
| WD. | WOOD |
| WDW. | WINDOW |
| W.G. | WIRED GLASS |
| W.H. | WATER HEATER |
| WIN. | WINDOW |
| W.P. | WATER PROOF(ING) |
| W.R. | WATER RESISTANT |
| WT. | WEIGHT |
| W.W.F. | WELDED WIRE FABRIC |
| W.O.M. | WALK OFF MAT |

## PROJECT DESCRIPTION

CONSTRUCTION OF A NEW 11,321 SF (EXCLUDING FISH PIT) ELDER CENTER FOR THE CONFEDERATED TRIBES OF THE CHEHALIS RESERVATION. THE NEW FACILITY WILL INCLUDE SEPARATE SPACES FOR DINING, CLASSROOM, CULTURAL ROOM, FITNESS AND MEDICAL SUITE, A LIBRARY/COMPUTER ROOM AND TWO ENTERTAINMENT ROOMS. THE CENTER IS SUPPORTED BY A COMMERCIAL KITCHEN AND STAFF OFFICES. THE BUILDING IS ANTICIPATED TO BE OF TYPE V-B CONSTRUCTION INCLUDING BOTH LIGHT WOOD FRAMING AND HEAVY TIMBER (PEELER POLE) ELEMENTS.

## DRAWING LIST


GENERAL

T0.0 COVER SHEET
T1.0 PROJECT INFO
T1.1 CODE & LIFE SAFETY

CIVIL

C001 CIVIL COVER SHEET
C002 GENERAL NOTES
C101 T.E.S.C PLAN
C102 TESC DETAILS
C201 PAVING & HORIZONTAL CONTROL PLAN
C202 SITE DETAILS
C203 SITE DETAILS
C301 GRADING & STORM DRAINAGE PLAN
C302 STORM DRAINAGE DETAILS
C303 STORM DRAINAGE DETAILS
C401 UTILITY PLAN
C402 UTILITY DETAILS
C403 UTILITY DETAILS

STRUCTURAL

S0.1 STRUCTURAL NOTES AND DRAWING LIST
S0.2 STATEMENT OF SPECIAL INSPECTIONS
S1.0 LOAD MAPS
S2.1A FOUNDATION AND FIRST FLOOR PLAN
S2.1B SHEAR WALL PLAN
S2.2A ROOF FRAMING PLAN
S2.2B ROOF NAILING AND REINFORCING PLAN
S3.01 SECTIONS AND ELEVATIONS
S3.02 SECTIONS AND ELEVATIONS
S4.01 TYPICAL CONCRETE DETAILS
S4.02 TYPICAL CONCRETE DETAILS
S4.03 TYPICAL CONCRETE DETAILS
S5.01 TYPICAL WOOD DETAILS
S5.11 WOOD DETAILS
S5.12 WOOD DETAILS
S5.21 SHEAR WALL SCHEDULE & DETAILS
S5.22 SHEAR WALL DETAILS
S6.01 ENCLOSURE SECTIONS AND DETAILS

ARCHITECTURAL

A1.1 SITE PLAN
A2.1 1st FLOOR PLAN
A2.2 ROOF PLAN
A3.1 EXTERIOR ELEVATIONS
A3.2 EXTERIOR ELEVATIONS
A3.3 BUILDING SECTIONS
A3.4 BUILDING SECTIONS
A4.1 WALL SECTIONS
A5.1 INTERIOR ELEVATIONS
A5.2 INTERIOR ELEVATIONS
A5.3 INTERIOR ELEVATIONS
A5.4 INTERIOR ELEVATIONS
A5.5 RESTROOM PLANS AND INTERIOR ELEVATIONS
A5.6 RESTROOM PLANS AND INTERIOR ELEVATIONS
A6.1 1st FLOOR RCP
A7.1 SCHEDULES - DOOR, PARTITION
A8.1 EXT DETAILS - TYPICAL WATERPROOFING
A8.2 EXTERIOR DETAILS
A8.3 EXTERIOR DETAILS
A8.4 EXTERIOR DETAILS
A8.5 EXTERIOR DETAILS
A9.1 INTERIOR DETAILS
A9.2 INTERIOR DETAILS
A9.3 SIGNAGE
A10.1 1st FLOOR FINISH PLAN
T0.0 COVER
T1.0 PROJECT INFO
T1.1 CODE & LIFE SAFETY & PERMIT NOTES

MECHANICAL / PLUMBING / FIRE PROTECTION

M001 LEGEND, ABBREVIATIONS LIST, & GENERAL NOTES
M002 SCHEDULES
M003 SCHEDULES
M100 FIRST FLOOR HVAC PLAN
M101 FIRST FLOOR HVAC PIPING PLAN
M102 FIRST FLOOR HVAC RCP PLAN
M103 ROOF HVAC PLAN
M200 DETAILS
M300 MECHANICAL PIPING DIAGRAMS
M301 MECHANICAL AIR FLOW DIAGRAMS
M302 SEQUENCE OF OPERATIONS AND POINTS LIST

P001 LEGENDS, ABBREVIATIONS, AND GENERAL NOTES
P002 SCHEDULES
P100 FOUNDATION PLUMBING PLAN
P200 PLUMBING DETAILS
P300 PLUMBING DIAGRAMS
P301 PLUMBING CALCULATIONS

FP100 FIRST FLOOR FIRE PROTECTION PLAN

ELECTRICAL

E1.0 LEGEND, ONE LINE DIAGRAM, DETAILS, & SCHEDULES
E1.1 ELECTRICAL SITE PLAN
E2.1 1ST FLOOR PLAN - LIGHTING
E3.1 1ST FLOOR PLAN - POWER
E3.2 ROOF PLAN - POWER
E3.3 KITCHEN PLAN - POWER
E4.1 FLOOR PLAN - COMM
E5.1 FLOOR PLAN - ESS
E6.0 SCHEDULES
E6.1 SCHEDULES
E6.2 PUMP SYSTEM SCHEMATIC & COMM RISER

FOOD SERVICE - KITCHEN

FS-1 EQUIPMENT PLAN AND SCHEDULE
FS-2 ELECTRICAL ROUGH-INS PLAN
FS-3 PLUMBING ROUGH-INS PLAN
FS-4 BUILDING WORKS PLAN
FS-5 REFRIG. ROUGH-INS PLAN
FS-6 ELEVATIONS AND DETAILS
FSR-1 REFRIGERATION ENGINEERING
FSR-2 REFRIGERATION ENGINEERING
FSV-1 EXHAUST HOOD ENGINEERING
FSV-2 EXHAUST HOOD ENGINEERING

LANDSCAPE

L1.00 TREE PRESERVATION PLAN
L1.01 TREE PRESERVATION PLAN
L1.10 LANDSCAPE MATERIALS PLAN
L1.11 LANDSCAPE MATERIALS PLAN
L1.20 SITE LAYOUT AND DIMENSIONING PLAN
L1.21 SITE LAYOUT AND DIMENSIONING PLAN
L2.00 IRRIGATION PLAN
L2.01 IRRIGATION PLAN & NOTES
L2.10 IRRIGATION SCHEDULES
L3.00 PLANTING PLAN
L3.01 PLANTING PLAN
L3.10 PLANTING SCHEDULE
L5.00 HARDSCAPE DETAILS
L5.01 HARDSCAPE DETAILS
L5.02 HARDSCAPE DETAILS
L5.03 HARDSCAPE DETAILS
L5.10 IRRIGATION DETAILS
L5.11 IRRIGATION DETAILS
L5.12 IRRIGATION DETAILS
L5.20 PLANTING DETAILS
L5.21 PLANTING DETAILS

FISH PIT STRUCTURE BY OWNER

FLOOR PLAN
ELEV PLAN
ROOF PLAN
ROOF FRAME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ISSUE DATE: APRIL 16, 2021

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CONTENTS:

**PROJECT INFO**

SCALE: 1/4" = 1'-0"
DRAWN: AW
CHECKED: PRC
PROJECT NO: 2020006.100

SHEET:

**T1.0**

## OCCUPANT LOAD

| wt | Name | Gross Area | Non-Occupiable Room Area | Net Room Area | Classification - IBC Table 1004.1.2 | Area Per Occupant | Occupancy Load |
|---|---|---|---|---|---|---|---|
| 100 | VESTIBULE | 480 SF | 0 SF | 480 SF | Unoccupied Space | 0 SF | |
| 101 | LOBBY/HALLS | 448 SF | 0 SF | 448 SF | Unoccupied Space | 0 SF | |
| 102 | RECEPTION | 206 SF | 40 SF | 166 SF | Business Areas - With Sprinkler Protection | 130 SF | 2 |
| 103 | OFFICE | 110 SF | 0 SF | 110 SF | Business Areas - With Sprinkler Protection | 130 SF | 1 |
| 104 | OFFICE | 105 SF | 0 SF | 105 SF | Business Areas - With Sprinkler Protection | 130 SF | 1 |
| 105 | MEDICAL | 144 SF | 20 SF | 124 SF | Business Areas - With Sprinkler Protection | 130 SF | 1 |
| 106 | FITNESS | 436 SF | 0 SF | 436 SF | Exercise Rooms | 50 SF | 9 |
| 107 | JAN. | 27 SF | 0 SF | 27 SF | Accessory Storage Areas, Mechanical Equipment Room | 300 SF | 1 |
| 108 | FIT. UNI. | 81 SF | 0 SF | 81 SF | Unoccupied Space | 0 SF | |
| 109 | WOMEN | 47 SF | 0 SF | 47 SF | Unoccupied Space | 0 SF | |
| 110 | TV 1 | 314 SF | 30 SF | 284 SF | Educational - Classroom Area | 20 SF | 15 |
| 111 | TV 2 | 310 SF | 30 SF | 280 SF | Educational - Classroom Area | 20 SF | 15 |
| 112 | MEN | 46 SF | 0 SF | 46 SF | Unoccupied Space | 0 SF | |
| 113 | LIBRARY | 785 SF | 50 SF | 735 SF | Library - Reading Rooms | 50 SF | 15 |
| 114 | CULTURAL ROOM | 768 SF | 40 SF | 728 SF | Educational - Classroom Area | 20 SF | 37 |
| 115 | STORAGE | 212 SF | 0 SF | 212 SF | Unoccupied Space | 0 SF | |
| 116 | MEN | 221 SF | 20 SF | 201 SF | Unoccupied Space | 0 SF | |
| 117 | WOMEN | 237 SF | 20 SF | 217 SF | Unoccupied Space | 0 SF | |
| 118 | CLASSROOM | 598 SF | 0 SF | 598 SF | Educational - Classroom Area | 20 SF | 30 |
| 119 | CLOSET | 53 SF | 0 SF | 53 SF | Unoccupied Space | 0 SF | |
| 120 | PART. ST. | 24 SF | 0 SF | 24 SF | Unoccupied Space | 0 SF | |
| 121 | DINING ROOM | 733 SF | 40 SF | 693 SF | Assembly without Fixed Seats - Unconcentrated (Tables and Chairs) | 15 SF | 47 |
| 122 | UNI | 54 SF | 0 SF | 54 SF | Unoccupied Space | 0 SF | |
| 123 | KITCHEN OFFICE | 70 SF | 0 SF | 70 SF | Business Areas - With Sprinkler Protection | 130 SF | 1 |
| 124 | PANTRY | 175 SF | 0 SF | 175 SF | Accessory Storage Areas, Mechanical Equipment Room | 300 SF | 1 |
| 125 | MECH. | 203 SF | 0 SF | 203 SF | Accessory Storage Areas, Mechanical Equipment Room | 300 SF | 1 |
| 126 | STOR. | 158 SF | 0 SF | 158 SF | Accessory Storage Areas, Mechanical Equipment Room | 300 SF | 1 |
| 127 | IT | 56 SF | 0 SF | 56 SF | Accessory Storage Areas, Mechanical Equipment Room | 300 SF | 1 |
| 128 | ELEC. | 85 SF | 0 SF | 85 SF | Accessory Storage Areas, Mechanical Equipment Room | 300 SF | 1 |
| 129 | KITCHEN | 710 SF | 0 SF | 710 SF | Kitchens, Commercial | 200 SF | 4 |
| 130 | OUTDOOR DINING | 586 SF | 0 SF | 586 SF | Assembly without Fixed Seats - Unconcentrated (Tables and Chairs) | 15 SF | 40 |
| 131 | FIRE RISER | 93 SF | 0 SF | 93 SF | Accessory Storage Areas, Mechanical Equipment Room | 300 SF | 1 |
| 132 | W.HALL | 858 SF | 0 SF | 858 SF | Unoccupied Space | 0 SF | |
| 134 | IT CLO. | 16 SF | 0 SF | 16 SF | Unoccupied Space | 0 SF | |
| Grand total | | 9450 SF | | | | | 225 |

## OCCUPANT LOAD BY CLASS

| wtwt | Name | Occupancy Class - IBC Table 2902.1 | Occupancy Load |
|---|---|---|---|
| 100 | VESTIBULE | Assembly: A-3 (Auditoriums/Gyms) | |
| 101 | LOBBY/HALLS | Assembly: A-3 (Auditoriums/Gyms) | |
| 102 | RECEPTION | Assembly: A-3 (Auditoriums/Gyms) | 2 |
| 103 | OFFICE | Assembly: A-3 (Auditoriums/Gyms) | 1 |
| 104 | OFFICE | Assembly: A-3 (Auditoriums/Gyms) | 1 |
| 105 | MEDICAL | Assembly: A-3 (Auditoriums/Gyms) | 1 |
| 106 | FITNESS | Assembly: A-3 (Auditoriums/Gyms) | 9 |
| 107 | JAN. | Assembly: A-3 (Auditoriums/Gyms) | 1 |
| 108 | FIT. UNI. | Assembly: A-3 (Auditoriums/Gyms) | |
| 109 | WOMEN | Assembly: A-3 (Auditoriums/Gyms) | |
| 110 | TV 1 | Assembly: A-3 (Auditoriums/Gyms) | 15 |
| 111 | TV 2 | Assembly: A-3 (Auditoriums/Gyms) | 15 |
| 112 | MEN | Assembly: A-3 (Auditoriums/Gyms) | |
| 113 | LIBRARY | Assembly: A-3 (Auditoriums/Gyms) | 15 |
| 114 | CULTURAL ROOM | Assembly: A-3 (Auditoriums/Gyms) | 37 |
| 115 | STORAGE | Assembly: A-3 (Auditoriums/Gyms) | |
| 116 | MEN | Assembly: A-3 (Auditoriums/Gyms) | |
| 117 | WOMEN | Assembly: A-3 (Auditoriums/Gyms) | |
| 118 | CLASSROOM | Assembly: A-3 (Auditoriums/Gyms) | 30 |
| 119 | CLOSET | Assembly: A-3 (Auditoriums/Gyms) | |
| 120 | PART. ST. | Assembly: A-3 (Auditoriums/Gyms) | |
| 121 | DINING ROOM | Assembly: A-3 (Auditoriums/Gyms) | 47 |
| 122 | UNI | Assembly: A-3 (Auditoriums/Gyms) | |
| 123 | KITCHEN OFFICE | Assembly: A-3 (Auditoriums/Gyms) | 1 |
| 124 | PANTRY | Assembly: A-3 (Auditoriums/Gyms) | 1 |
| 125 | MECH. | Assembly: A-3 (Auditoriums/Gyms) | 1 |
| 126 | STOR. | Assembly: A-3 (Auditoriums/Gyms) | 1 |
| 127 | IT | Assembly: A-3 (Auditoriums/Gyms) | 1 |
| 128 | ELEC. | Assembly: A-3 (Auditoriums/Gyms) | 1 |
| 129 | KITCHEN | Assembly: A-3 (Auditoriums/Gyms) | 4 |
| 130 | OUTDOOR DINING | Assembly: A-3 (Auditoriums/Gyms) | 40 |
| 131 | FIRE RISER | Assembly: A-3 (Auditoriums/Gyms) | 1 |
| 132 | W.HALL | Assembly: A-3 (Auditoriums/Gyms) | |
| 134 | IT CLO. | Assembly: A-3 (Auditoriums/Gyms) | |
| Assembly: A-3 (Auditoriums/Gyms) | | | 225 |
| Grand total | | | 225 |

## PLUMBING CALCULATIONS

| A-3 OCCUPANTS: 225 | | Assembly: Auditoriums without permanent seating, art galleries, exhibition halls, museums, lecture halls, libraries, arcades and gymnasiums | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | WATER CLOSETS | | | URINALS | LAVATORIES | | |
| 50 % MALE | 50 % FEMALE | UNISEX | MALE | FEMALE | MALE | UNISEX | MALE | FEMALE |
| 112.5 | 112.5 | 0 | 1 | 2 | 0 | 0 | 1 | 1 |

| SUMMARY OF REQ'D TOTAL OCCUPANTS: 225 | | This summary table tallies the individual fixtures as required by occupancy group(s) above into total required fixtures and compares that to the number of fixtures provided in the documents, see below | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TOTAL WATER CLOSETS | | | TOTAL URINALS | TOTAL LAVATORIES | | | TOTAL BATHTUBS OR SHOWERS | TOTAL DRINKING FOUNTAINS | TOTAL SERVICE SINKS |
| 50 % MALE | 50 % FEMALE | UNISEX | MALE | FEMALE | MALE | UNISEX | MALE | FEMALE | | | |
| 112.5 | 112.5 | 0 | 1 | 2 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| Provided | | 2 | 2 | 4 | 2 | 2 | 3 | 3 | 1 | 2 | 2 |

## PERMIT NOTES

1. DEFERRED PERMIT SUBMITTALS INCLUDE BUT ARE NOT LIMITED TO:
STORMWATER POLLUTION PREVENTION PLAN (SWPPP), ELECTRICAL, FIRE ALARM, AUTOMATIC FIRE SPRINKLER

2. SEE STRUCTURAL FOR SPECIAL INSPECTION REQUIREMENTS AND ADDITIONAL DEFERRED PERMIT SUBMITTALS

3. GEOTECHNICAL INSPECTIONS SCHEDULE SHALL INCLUDE PRECONSTRUCTION MEETING, SUB/SURFACE DRAINAGE INSTALLATION, EROSION CONTROL - PERMANENT AND TEMPORARY, OBSERVATION AND MONITORING EXCAVATION, VERIFYING FILL AND COMPACTION, SOIL BEARING VERIFICATION.

4. THE KITCHEN RANGEHOOD REQUIRES ACCEPTANCE TESTING BY LOCAL BUILDING OFFICIAL FOR TYPE 1 HOOD INSTALLATION, INTERNAL LIGHT TEST FOR EXHAUST DUCT, AND FIRE SUPPRESSION TRIP TEST ACCEPTANCE. THE MANUFACTURER'S INSTALLATION MANUAL FOR THE RANGEHOOD FIRE EXTINGUISHING SYSTEM SHALL BE AVAILABLE FOR USE BY THE INSPECTOR FOR THE ACCEPTANCE TEST. THE RANGEHOOD MUST BE CONNECTED TO THE FIRE ALARM SYSTEM.

## BUILDING CODE NOTES

**303.4 ASSEMBLY GROUP A-3. GROUP A-3 OCCUPANCY INCLUDES ASSEMBLY USES INTENDED FOR WORSHIP, RECREATION OR AMUSEMENT AND OTHER ASSEMBLY USES NOT CLASSIFIED ELSEWHERE IN GROUP A INCLUDING BUT NOT LIMITED TO:**
**...**
**COMMUNITY HALLS**
**...**

**TABLE 504.3 ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLANE**
**OCCUPANCY CLASSIFICATION = A**
**SPRINKLERED = YES**
**CONSTRUCTION TYPE = V-B**
**MAXIMUM BUILDING HEIGHT = 60'**

**TABLE 504.4 ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE**
**OCCUPANCY CLASSIFICATION = A-3**
**SPRINKLERED = YES**
**CONSTRUCTION TYPE = V-B**
**MAXIMUM NUMBER OF STORIES = 2**

**TABLE 506.2 ALLOWABLE AREA FACTOR IN SQUARE FEET**
**OCCUPANCY CLASSIFICATION = A-3**
**SPRINKLERED = S1**
**CONSTRUCTION TYPE = V-B**
**MAXIMUM BUILDABLE AREA = 24,000 SF**

**506.2.1 SINGLE OCCUPANCY, ONE-STORY BUILDING AREA MODIFCATION**
**Aa = At + (NS x If)**
**Aa = (24,000 + (6,000 x .75)**
**= 24,000 + 4,500**
**MODIFIED MAXIMUM BUILDABLE = 28,500 SF / FLOOR**
**ACTUAL PROPOSED SINGLE FLOOR AREA = 11,115 SF**

**506.3.1-506.3.3 FRONTAGE INCREASE**
**If = (F/P - 0.25)W/30**
**If = (556'/556' - 0.25)30/30**
**If = (1 - 0.25)1**
**If = .75**

**602.5 TYPE V CONSTRUCTION.**
**TYPE V CONSTRUCTION IS THAT TYPE OF CONSTRUCTION IN WHICH THE STRUCTURAL ELEMENTS, EXTERIOR WALLS AND INTERIOR WALLS ARE OF ANY MATERIALS PERMITTED IN THIS CODE.**

**THE DESIGNED BUILDING SQUARE FOOTAGES BY FLOOR ARE AS FOLLOWS:**
**FIRST FLOOR = 11,321 SF**

**ROOF DRAINAGE CALCULATIONS ARE SHOWN ON THE ROOF PLAN SHEETS**

## ENERGY CODE NOTES

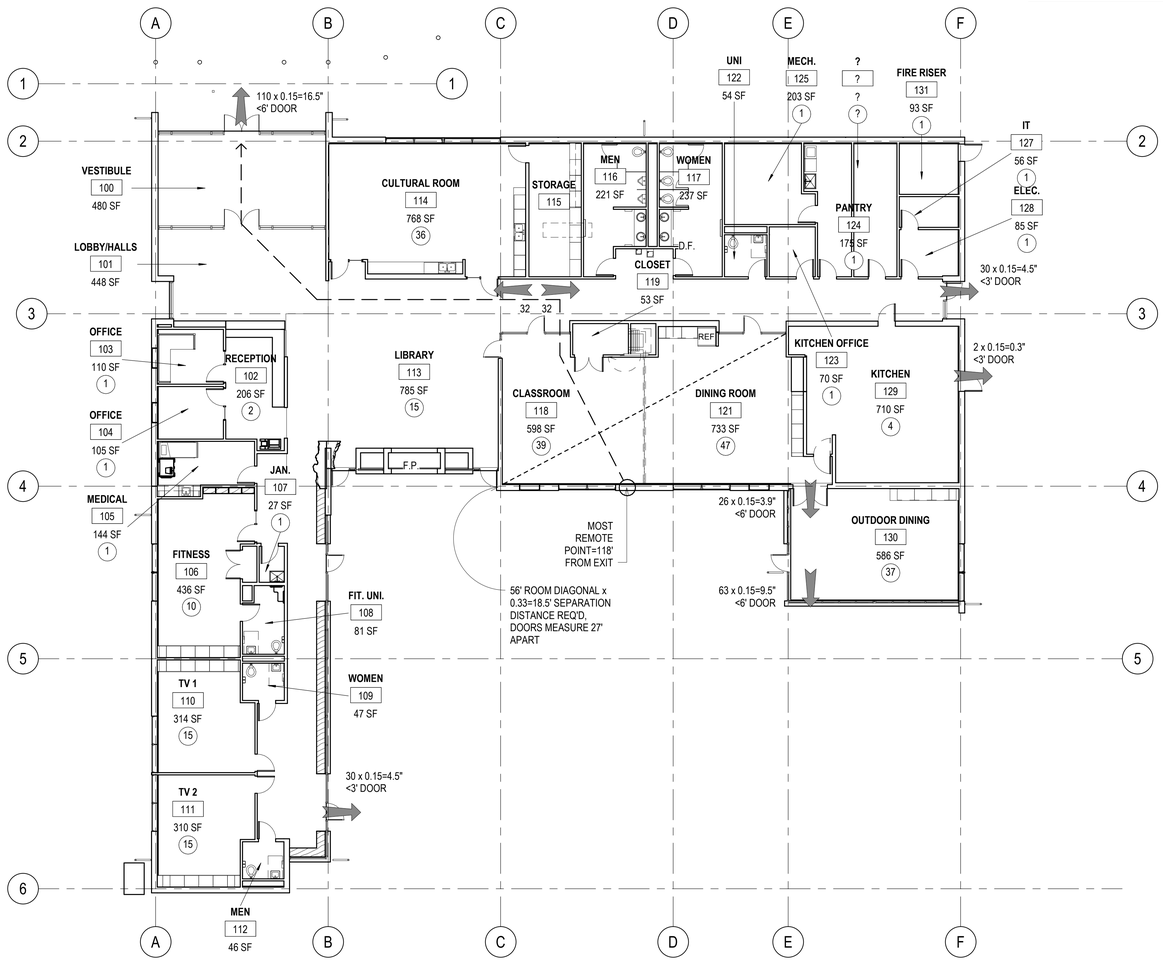
**2012 WASHINGTON STATE COMMERCIAL ENERGY CODE**
**CLIMATE ZONE: GRAY'S HARBOR COUNTY - 4C**

**TABLE C402.2**
**ROOF INSULATION: MIN R-38 C.I.**
**WALL INSULATION FOR WOOD FRAMED: MIN R-21 INT**
**UNHEATED SLABS: R-10 FOR 24" PERIMETER**
**HEATED SLABS: R-10 CONTINUOUS**
**OPAQUE DOORS: U=.037**

**TABLE C402.3 FENESTRATION REQUIREMENTS**
**WINDOWS / VERTICAL FENESTRATIONS: FIXED 0.38 MAX**
**OPERABLE 0.40 MAX, ENTRANCE DOORS 0.60 MAX SHGC: 0.40 MAX.**

**C402.3.1 MAXIMUM GLAZING IS 30% OF GROSS ABOVE GRADE WALL AREA**

**C402.4.7 VESTIBULES.**
**ALL BUILDING ENTRANCES SHALL BE PROTECTED WITH AN ENCLOSED VESTIBULE, WITH ALL DOORS OPENING INTO AND OUT OF THE VESTIBULE EQUIPPED WITH SELF-CLOSING DEVICES...**




1 FIRE, LIFE SAFETY PLAN
3/32" = 1'-0"


a|r|c ARCHITECTS
119 S MAIN ST
SUITE 200
SEATTLE, WA
98104-2579
206 322 3322


# The Chehalis Tribe Chehalis Elders Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

**BID DOCUMENTS**

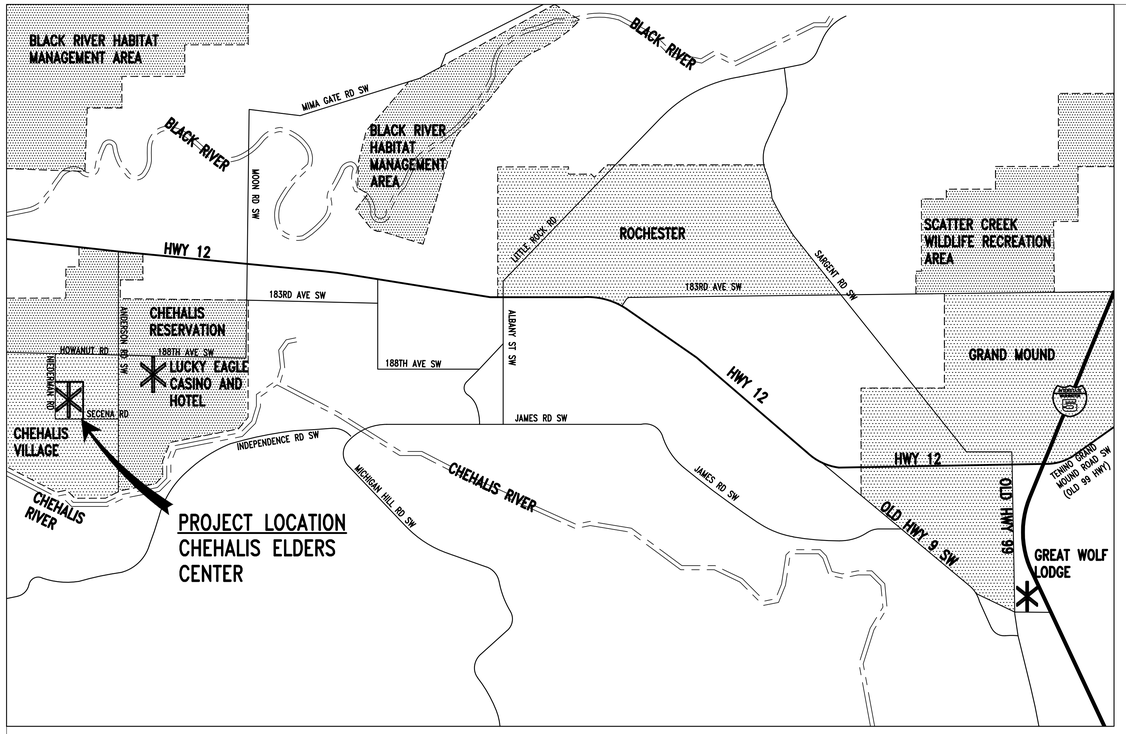
ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

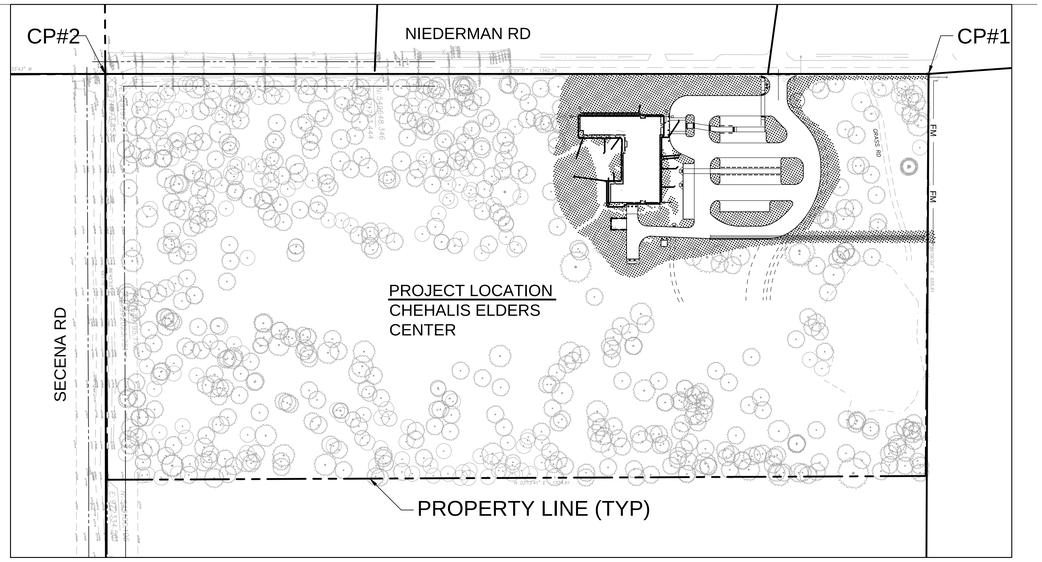
CONTENTS:
**CODE & LIFE SAFETY & PERMIT NOTES**

SCALE: **3/32" = 1'-0"**
DRAWN: **AW**
CHECKED: **PRC**
PROJECT NO: 2020006.100

SHEET:
**T1.1**




VICINITY MAP
NTS
NORTH




SITE MAP
SCALE; 1"=100'
NORTH
0 50 100 200
1 inch = 100 feet

SURVEY SITE NOTES WERE PREPARED BY THE SURVEYOR AND ARE SHOWN HEREON FOR REFERENCE ONLY. REFER TO THE SURVEY SHEETS PREPARED BY SOUND SURVEYORS INC., DATED NOV 2014, FOR ALL SURVEY INFORMATION

## SURVEY SITE NOTES:

1. EXISTING SURFACE FEATURES, TOPOGRAPHIC CONDITIONS, AND UNDERGROUND UTILITIES SHOWN ARE BASED ON SURVEY INFORMATION PROVIDED BY SOUND SURVEYORS, INC. AS PART OF THE PROPOSAL DOCUMENTS. SOUND SURVEYORS, INC. PROVIDED SURVEY FOR THE CHEHALIS TRIBE ELDERS CENTER INFRASTRUCTURE AND SUPPORT FACILITIES ON AUGUST, 2016.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS IN THE FIELD BEFORE STARTING WORK AND SHALL IMMEDIATELY NOTIFY THE DESIGN TEAM OF ANY DISCREPANCIES WITH RESPECT TO THE PLANS.
3. BEFORE EXCAVATION OR TRENCHING, CONTRACTOR SHALL SUBMIT A UTILITY LOCATE REQUEST (CALL BEFORE YOU DIG) THROUGH THE STATE OF WASHINGTON UTILITY NOTIFICATION CENTER IN ACCORDANCE WITH STATE OF WASHINGTON LAW: CHAPTER 19.122 RCW ±UNDERGROUND UTILITIES. NO EXCAVATION MAY BEGIN UNTIL THE TIME STATED ON THE LOCATE TICKET. THE ONE-CALL PHONE NUMBER FOR UTILITY LOCATES IS: 1-800-424-5555.
4. SITE ACCESS DURING CONSTRUCTION IS LIMITED TO STABILIZED CONSTRUCTION ENTRANCES.

SURVEY DESCRIPTION:
THE WEST ONE HALF OF THE SOUTHWEST ONE QUARTER OF THE SOUTHEAST ONE QUARTER OF SECTION 3, TOWNSHIP 15 NORTH, RANGE 4 WEST OF THE WILLAMETTE MERIDIAN GRAYS HARBOR COUNTY, STATE OF WASHINGTON.

BASIS OF BEARING:
TIE FROM SOUTH 1/16 COR N-S CL SECTION 3, TO SOUTH 1/4 COR WA STATE PLANE SOUTH ZONE NAD 83/91.

VERTICAL DATUM:
NAVD88
1/16 COR. MON.
ELEVATION: 117.49

CONTROL POINTS:
CP#1; SO. 1/16 N-S CL
ELEVATION: 117.49

CP#2; 3.25" BLM DISC-7" BELOW 2RM-2BT

## LEGEND

- PROPERTY/ RIGHT-OF-WAY LINE
- APPROX. LIMIT OF WORK
- SD — STORM DRAIN CULVERT
- 115 — PROPOSED CONTOUR
- RIDGE LINE
- 115.0 — SPOT ELEVATION
- 2% — FLOW
- CATCH BASIN
- YARD DRAIN
- STORM DRAIN CHANNEL
- CONCRETE STORM CHANNEL
- CISTERN
- SS — SANITARY SEWER SERVICE
- FM — FORCE MAIN
- W — W — WATER MAIN/LATERAL SERVICE
- WA — DOMESTIC WATER SERVICE
- FS — FIRE SERVICE
- CLEANOUT
- GREASE INTERCEPTOR VAULT
- GATE VALVE
- POST INDICATOR VALVE
- FIRE HYDRANT ASSEMBLY
- THRUST BLOCK
- TEE
- BLIND FLANGE W/ TB
- G — GAS (PROPANE)
- LIFT STATION

## ABBREVIATIONS

| | |
|---|---|
| CB | CATCH BASIN |
| CO | CLEANOUT |
| DIP | DUCTILE IRON PIPE |
| EX | EXISTING |
| FDC | FIRE DEPARTMENT CONNECTION |
| FDCO | FOUNDATION DRAINAGE CLEANOUT |
| FHA | FIRE HYDRANT ASSMBLY |
| FM | FORCE MAIN |
| GV | GATE VALVE |
| IE | INVERT ELEVATION |
| LF | LINEAR FEET |
| LT | LEFT |
| MH | MANHOLE |
| MJ | MECHANICAL JOINT |
| PIV | POST INDICATOR VALVE |
| PVC | POLYVINYL CHLORIDE |
| RD | ROOF DRAIN |
| RJ | RESTRAINED JOINT |
| RT | RIGHT |
| SDCO | STORM DRAINAGE CLEANOUT |
| SS | SANITARY SEWER |
| SSCO | SANITARY SEWER CLEANOUT |
| SSS | SANITARY SIDE SEWER |
| SSMH | SIDE SEWER MANHOLE |
| SD | STORM DRAIN |
| STA | STATION |
| STD | STANDARD |
| TB | THRUST BLOCK |
| TESC | TEMPORARY EROSION AND SEDIMENT CONTROL |
| TYP | TYPICAL |
| W | WATER |
| W/ | WITH |

## CIVIL SHEET INDEX

| SHEET NO | DRAWING TITLE |
|---|---|
| C001 | CIVIL COVER SHEET |
| C002 | GENERAL NOTES |
| C101 | TESC PLAN |
| C102 | TESC DETAILS |
| C201 | PAVING AND HORIZONTAL CONTROL PLAN |
| C202 | SITE DETAILS |
| C203 | SITE DETAILS |
| C301 | GRADING AND STORM DRAINAGE PLAN |
| C302 | STORM DRAINAGE DETAILS |
| C303 | STORM DRAINAGE DETAILS |
| C401 | UTILITY PLAN |
| C402 | UTILITY DETAILS |
| C403 | UTILITY DETAILS |

Call 811 two business days before you dig


a|r|c ARCHITECTS
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98104-2579
206 322 3322

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com


JOHN DAN EBERHARDT
STATE OF WASHINGTON
31745
REGISTERED PROFESSIONAL ENGINEER
04/09/2021

# The Chehalis Tribe
# Chehalis Elders Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

BID DOCUMENTS

ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:
CIVIL COVER SHEET

| | |
|---|---|
| SCALE: | AS NOTED |
| DRAWN: | KWP |
| CHECKED: | JDE / KEC |
| PROJECT NO: | 115318 |

SHEET:
C001

Apr 09, 2021 - 5:04pm EmailsE X:\115000-115400\115318 (Chehalis Elder Center)\CADD\Design\CEC-001-CV.dwg
Xref Filename: \ X-CEC-TB \ Dashboard \ X-CEC-SV \ X-CEC-SP \ X-CEC-LP_PLAN \ X-CEC-API\

## GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION AND COORDINATION OF ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL REVIEW THE DRAWINGS PRIOR TO STARTING CONSTRUCTION AND BRING ALL PROBLEMS IMMEDIATELY TO THE ATTENTION OF THE ENGINEER IN ORDER TO AVOID DELAYS. A COPY OF THE APPROVED PLANS MUST BE ON-SITE WHENEVER CONSTRUCTION IS IN PROGRESS.

2. PRE-CONSTRUCTION MEETING – PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL SCHEDULE AND ATTEND A PRE-CONSTRUCTION CONFERENCE WITH UTILITY PROVIDERS CONSTRUCTION INSPECTION PERSONNEL.

2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE OR HAVE LOCATED BY THE APPROPRIATE COMPANIES ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.

3. EXISTING UTILITIES – EXISTING UTILITY LOCATIONS SHOWN ARE BASED ON FIELD LOCATES AND CAD/PDF FILE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ADDITIONAL UTILITIES INFORMATION FROM THE APPROPRIATE AGENCIES AND SHALL FIELD VERIFY ALL LOCATIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT THE UNDERGROUND UTILITY LOCATE SERVICES, AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. THE OWNER OR OWNER REPRESENTATIVE AND THE ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.

4. TOPOGRAPHY & SURVEY CONTROL – TOPOGRAPHY & SURVEY CONTROL SHOWN ON THESE DRAWINGS ARE BASED ON A TOPOGRAPHIC SURVEY BY SOUND SURVEYORS, INC. DATED NOVEMBER 2014. ALL TOPOGRAPHY SHOWN ON THE DESIGN PLANS MUST BE FIELD VERIFIED AT THE BEGINNING OF CONSTRUCTION TO ENSURE EXISTING CONDITIONS CONFORM TO THE DESIGN PLANS.

5. GEOTECHNICAL & SUBSURFACE INVESTIGATION – GEOTECHNICAL & SUBSURFACE INFORMATION FOR THE SITE IS PROVIDED BY THE PROJECT GEOTECHNICAL ENGINEER. A COPY OF THE REPORT CAN BE OBTAINED BY CONTACTING THE OWNER.

6. PERMITS – THE CONTRACTOR SHALL OBTAIN ALL LOCAL, STATE AND FEDERAL PERMITS AS REQUIRED. THE CONTRACTOR SHALL CONDUCT ALL WORK IN CONFORMANCE WITH THE VARIOUS LOCAL, STATE AND FEDERAL PERMITS AND APPROVALS REQUIRED FOR THE PROJECT.

7. ALL DISTURBED AREAS SHALL BE RESTORED IN KIND TO MATCH EXISTING CONDITIONS.

8. SITE FEATURE AND UTILITIES NOT SHOWN TO BE REMOVED SHALL REMAIN AND PROTECTED FROM DAMAGE. IF DAMAGED THEY SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.

9. AS-BUILT DRAWINGS – THE CONTRACTOR SHALL MAINTAIN "AS-BUILT" INFORMATION ABOUT THE PROJECT AS IT IS CONSTRUCTED. THE "AS-BUILT" INFORMATION SHALL BE CERTIFIED BY A STATE OF WASHINGTON LICENSED LAND SURVEYOR.

## STORMWATER POLLUTION PREVENTION (SWPP) NOTES:

1. CONTRACTOR IS RESPONSIBLE TO ENSURE SWPP MEASURES CONFORM TO THE REQUIRMENTS OF THE 2019 DEPARTMENT OF ECOLOGY (ECOLOGY) STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON.

2. SWPP FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENT FOR ANTICIPATED SITE CONDITIONS. CONTRACTOR SHALL UPGRADE SWPP FACILITIES TO ACCOUNT FOR ALL STORM EVENTS.

3. TEMPORARY DISCHARGES FROM THE SITE MUST MEET ALL NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO WATER QUALITY, MONITORING, AND REPORTING REQUIREMENTS.

4. PRIOR TO LEAVING THE CONSTRUCTION SITE, STORMWATER RUNOFF FROM DISTURBED AREAS SHALL RUN THROUGH A SEDIMENT POND OR OTHER APPROPRIATE SEDIMENT REMOVAL BMP. CONTRACTOR SHALL UPGRADE THE BMP'S AS APPROPRIATE TO TRAP SEDIMENT ON-SITE. TRAPPED SEDIMENT SHALL BE DISPOSED OF LEGALLY.

5. REFER TO THE STORMWATER POLLUTION PREVENTION REPORT FOR STORMWATER DISCHARGE TESTING REQUIREMENTS.

6. SITE INSPECTIONS SHALL BE CONDUCTED BY A CERTIFIED EROSION AND SEDIMENTATION CONTROL LEAD (CESCL) WHO SHALL BE PRESENT ON-SITE OR ON-CALL AT ALL TIMES.

7. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED AFTER EVERY MEASURABLE RAINFALL EVENT.

8. LAY DOWN AREA TO BE GRADED FLAT AND STABILIZED USING ONSITE GRAVEL OR HYDROSEEDED AT THE OPTION OF THE CONTRACTING OFFICER.

9. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SWPP FACILITIES TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE NATURAL OR PUBLIC DRAINAGE SYSTEMS. AS CONSTRUCTION PROGRESSES AND CONDITIONS DICTATE, ADDITIONAL FACILITIES MAY BE REQUIRED TO ENSURE COMPLETE SEDIMENTATION CONTROL OF THE PROJECT. THEREFORE, DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS CREATED BY CONSTRUCTION ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES TO PROTECT ADJACENT PROPERTIES.

10. ALL SWPP FACILITIES SHALL BE INSPECTED DAILY WHEN THERE IS DISCHARGE FROM THE SITE AND WEEKLY WHEN NO DISCHARGE OCCURS.

11. SWPP FACILITIES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ENSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. MAINTENANCE AND REPAIR SHALL BE CONDUCTED IN ACCORDANCE WITH THE 2019 EDITION OF THE "STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON" AS PUBLISHED BY THE DEPARTMENT OF ECOLOGY.

12. ALL SWPP MEASURES SHALL BE REMOVED FROM THE SITE WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED AS DETERMINED BY THE OWNER. TRAPPED SEDIMENT SHALL BE DISPOSED OF LEGALLY AND ANY AREAS DISTURBED DURING TRAPPED SEDIMENT REMOVAL SHALL BE PERMANENTLY STABILIZED.

13. CATCH BASIN PROTECTION (SILT SOCKS AT A MINIMUM) SHALL BE FITTED TO ALL CATCH BASINS WITHIN 500 FT OF THE PROJECT AND REMAIN IN PLACE UNTIL PROJECT COMPLETION AS DETERMINED BY THE OWNER. ONCE PROJECT IS COMPLETE, CATCH BASIN PROTECTION SHALL BE FULLY REMOVED FROM ALL CATCH BASINS AND TRAPPED SEDIMENT SHALL BE DISPOSED OF LEGALLY.

14. THE CONTRACTOR SHALL KEEP STREETS CLEAN AT ALL TIMES BY SWEEPING. WASHING OF STREETS WILL NOT BE ALLOWED. CONTRACTOR IS REQUIRED TO CLEAN ALL STREETS AFFECTED BY THE WORK OF THIS CONTRACT.

15. CONSTRUCTION ENTRANCE SHALL BE PLACED WHERE SHOWN ON THIS PLAN. RELOCATION OF CONSTRUCTION ENTRANCE MAY ONLY BE DONE WITH APPROVAL FROM THE CITY.

16. ALL SLOPES GREATER THAN 3:1 SHALL BE STABILIZED WITH COMPOST SOCKS, EROSION CONTROL COIR FABRICS, OR OTHER APPROPRIATE SLOPE STABILIZATION BMP.

17. CONTRACTOR SHALL CONTROL DUST GENERATED FROM CONSTRUCTION ACTIVITIES PER BMP C140 BY STABILIZING TOPSOIL, INCREASING SURFACE MOISTURE, AND COVERING EXPOSED SURFACES TO PREVENT EROSION. CONTRACTOR SHALL EMPLOY MEASURES TO ENSURE THAT MUD AND SEDIMENT DO NOT LEAVE THE SITE.

18. CONCRETE WASHOUT SHALL NOT OCCUR IN STREETS OR NEAR STORM DRAINS. ALL CONCRETE HANDLING SHALL BE PER BMP C151: CONCRETE HANDLING IN THE 2019 DEPARTMENT OF ECOLOGY (ECOLOGY) STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON.

19. CONSTRUCTION FENCING LIMITS SHOWN ARE SCHEMATIC IN NATURE AND REPRESENT THE MAXIMUM FENCING ANTICIPATED AT START OF CONSTRUCTION. AS CONSTRUCTION WORK PROGRESSES CONTRACTOR SHALL UPDATE FENCING LIMITS AS NECESSARY TO MAINTAIN SITE SAFETY AND SECURITY WHILE ALLOWING FOR CONTINUOUS PEDESTRIAN AND VEHICULAR ACCESS AROUND THE SITE TO THE MAXIMUM EXTENT PRACTICABLE. CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO RELOCATING FENCING.

20. BARE AND/OR DISTURBED SOILS SHALL REMAIN UNCOVERED AND/OR STABILIZED FOR NO MORE THAN 2 DAYS FROM OCTOBER 1 THROUGH APRIL 30, AND FOR NO MORE THAN 7 DAYS FROM MAY 1 THROUGH SEPTEMBER 30.

21. ANY AREA STRIPPED OF VEGETATION, WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 15 DAYS SHALL BE STABILIZED WITH THE APPROVED ESC METHODS.

22. DIVERT SEDIMENT LADEN RUNOFF AWAY FROM AREAS DESIGNATED FOR PERMANENT INFILTRATION FACILITIES.

23. CONTRACTOR IS RESPONSIBLE TO IMMEDIATELY CLEAN UP SPILLS WITH APPROPRIATE DISPOSAL METHODS AND SHALL NOTIFY ECOLOGY, THE LOCAL JURISDICTION, AND THE LOCAL SEWER AUTHORITY IF A SPILL MAY REACH SANITARY OR STORM SEWERS, GROUND WATER, OR SURFACE WATER, IN ACCORDANCE WITH FEDERAL AND ECOLOGY SPILL REPORTING REQUIREMENTS.

24. MAINTENANCE, FUELING, AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, SOLVENT AND DE-GREASING CLEANING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO DRAINAGE WATER RUNOFF SHALL BE CONDUCTED USING SPILL PREVENTION AND CONTROL MEASURES PER BMP S426.

25. BMPS SHALL BE USED TO PREVENT OR TREAT CONTAMINATION OF DRAINAGE WATER BY PH-MODIFYING SOURCES. THESE SOURCES INCLUDE, BUT ARE NOT LIMITED TO, BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHING AND CURING WATERS, WASTE STREAMS GENERATED FROM CONCRETE GRINDING AND SAWING, EXPOSED AGGREGATE PROCESSES, AND CONCRETE PUMPING AND MIXER WASHOUT WATERS. CONSTRUCTION SITE OPERATORS MAY BE REQUIRED TO ADJUST THE PH OF DRAINAGE WATER IF NECESSARY TO PREVENT A VIOLATION OF WATER QUALITY STANDARDS. CONSTRUCTION SITE OPERATORS MUST OBTAIN WRITTEN APPROVAL FROM ECOLOGY PRIOR TO USING CHEMICAL TREATMENT OTHER THAN CARBON DIOXIDE (CO2) OR DRY ICE TO ADJUST PH.

26. APPLICATION OF FERTILIZERS AND PESTICIDES SHALL BE CONDUCTED IN A MANNER AND AT APPLICATION RATES THAT WILL NOT RESULT IN LOSS OF CHEMICAL TO DRAINAGE WATER. MANUFACTURERS' LABEL REQUIREMENTS FOR APPLICATION RATES AND PROCEDURES SHALL BE FOLLOWED.

## GENERAL NOTES: (WATER INSTALLATION)

1. WATER MAINS EQUAL TO OR LESS THAN 12 INCHES IN DIAMETER SHALL BE AQQA C900 CLASS 200, C905 CLASS 235.

2. GATE VALVES SHALL BE RESILIENT WEDGE, NRS (NON-RISING STEM) WITH O-RINGS REALS. VALVE ENDS SHALL BE MECHANICAL JOINT OR ANSI FLANGES. VALVES SHALL CONFORM TO AWA 509-80. GATE VALVES SHALL BE MUELLER A2370, M & H STYLE 3067, AMERICAN FLOW CONTROL SERIES 500, OR AS APPROVED BY CHEHALIS TRIBE. EXISTING VALVES WILL BE OPERATED BY CHEHALIS TRIBAL EMPLOYEES ONLY.

3. HYDRANTS SHALL BE THE DRY BARREL TYPE AND ONE OF THE FOLLOWING: MUELLER CENTRURION OR CLOW F2500. HYDRANTS SHALL BE BAGGED UNTIL SYSTEM IS APPROVED. ALL HYDRANTS SHALL BE EQUIPPED WITH STORZ ADAPTERS.

4. ALL LINES SHALL BE CHLORINATED AND TESTED.

5. ALL PIPE AND SERVICES SHALL BE INSTALLED WITH 12 GAUGE COATED COPPER TONING WIRE SECURED WITH DUCT TAPE TO TOP OF PIPE TO PREVENT MOVEMENT DURING BACKFILLING, BROUGHT UP AND TIED OFF AT TOP OF VALVE BOX. THERE SHALL BE TWO (2) FEET OF SLACK EXPOSED IN THE VALVE BOX FOR CONNECTION BY LOCATOR. THE TONING WIRE SHALL BE TESTED PRIOR TO ACCEPTANCE.

6. DETECTABLE MARKING TAPE SHALL BE INSTALLED OVER ALL WATER LINES THE TAPE SHALL BE PLACED TWELVE (12) INCHES ABOVE THE TOP OF THE PIPE AND SHALL EXTEND ITS ENTIRE LENGTH DETECTABLE MARKING TAPE SHALL MEET THE REQUIREMENTS OF SECTION 9-15.18 OF THE STANDARD SPECIFICATIONS.

7. ALL WATER MAINS SHALL BE STAKED FOR GRADES AND ALIGNMENT BY AN ENGINEERING OR SURVEYING FIRM CAPABLE OF PERFORMING SUCH WORK

8. CALL UNDERGROUND LOCATE AT 1-800-424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATIONS.

9. WHERE CONNECTION REQUIRE "FIELD VERIFICATION", CONNECTION POINTS WILL BE EXPOSED BY CONTRACTOR AND FITTINGS VERIFIED TWO WORKING DAYS PRIOR TO DISTRIBUTING SHUT-DOWN NOTICES.

10. TAPS AND OTHER DISRUPTIONS TO THE EXISTING WATER SYSTEM SHALL ONLY OCCUR MONDAY THROUGH THURSDAY BETWEEN THE HOURS OF 8:00 A.M. AND 2:00 P.M. EACH DAY, AND SHALL NOT OCCUR ON SATURDAY, SUNDAY, OR ANY HOLIDAY RECOGNIZED BY THE CHEHALIS TRIBE WITHOUT THE APPROVAL OF THE CHEHALIS TRIBE.

11. AT ANY CONNECTION TO AN EXISTING LINE, WHERE A NEW VALVE IS NOT INSTALLED, THE EXISTING VALVE MUST BE PRESSURE TESTED TO CHEHALIS TRIBAL STANDARDS PRIOR TO CONNECTION IF AN EXISTING VALVE FAILS TO PASS THE TEST, THE CONTRACTOR SHALL MAKE THE NECESSARY PROVISIONS TO TEST THE NEW LINE PRIOR TO CONNECTION TO THE EXISTING SYSTEM OR INSTALL A NEW VALVE.

12. ALL COMMUNITY WATER SYSTEMS SHALL COMPLY WITH THE CROSS-CONNECTION CONTROL REQUIREMENTS.

13. NO LOT LINE WATER MAINS ARE ALLOWED.

Call 811 two business days before you dig


a|r|c ARCHITECTS
119 S MAIN ST
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SEATTLE, WA
98104-2579
206 322 3322

kpff
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Seattle, WA 98101
206.622.5822
www.kpff.com


JOHN DAN EBERHARDT, STATE OF WASHINGTON, 31745, REGISTERED PROFESSIONAL ENGINEER
04/09/2021

# The Chehalis Tribe Chehalis Elders Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
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CONTENTS:

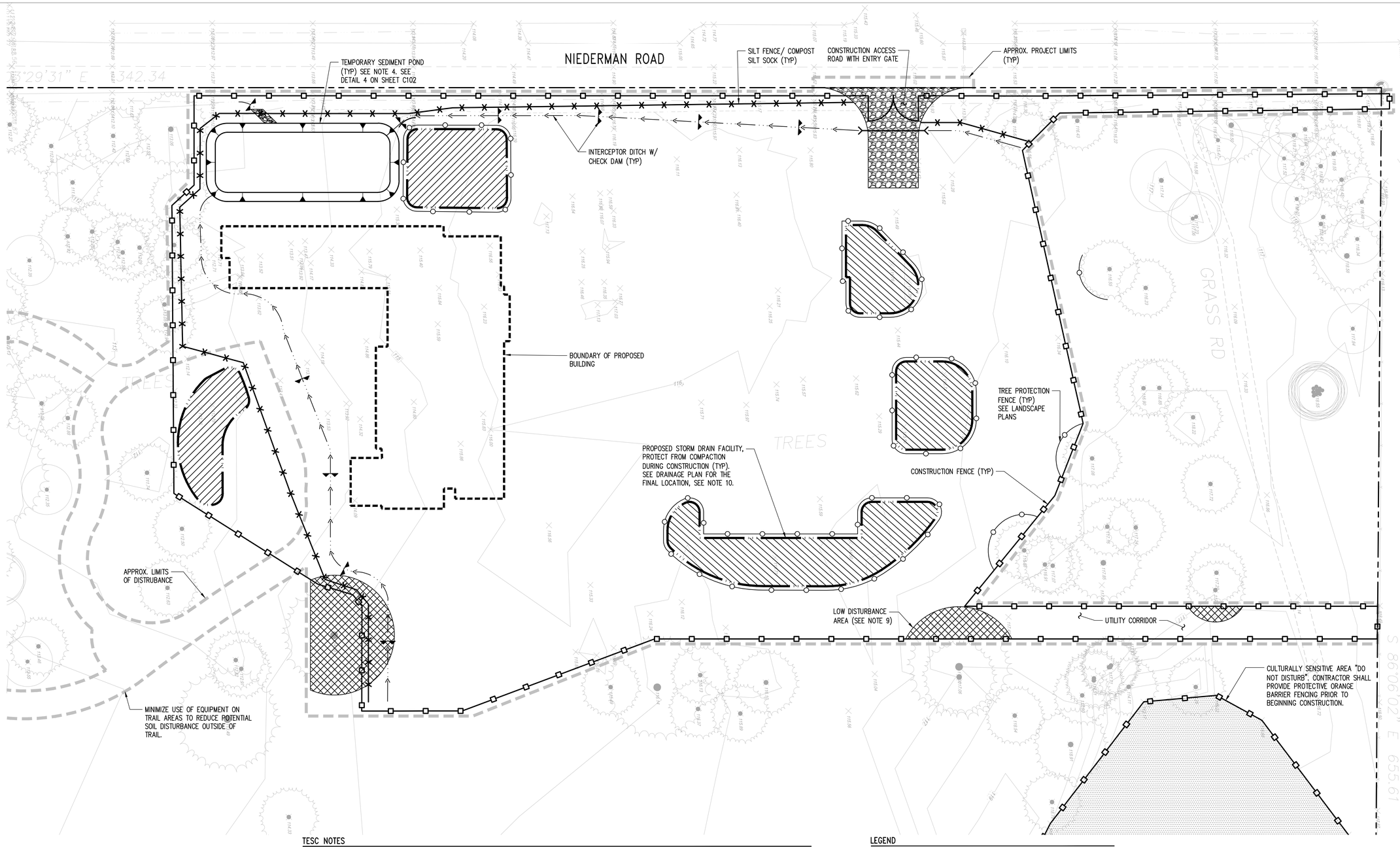
**GENERAL NOTES**

| | |
|---|---|
| SCALE: | AS NOTED |
| DRAWN: | KWP |
| CHECKED: | JDE / KEC |
| PROJECT NO: | 115318 |

SHEET:

**C002**


Apr 09, 2021 - 5:04pm Emerald X:\115000-115499\115318 (Chehalis Elder Center)\CADD\Design\CEC-001-CV.dwg
Xref Filename: \ X-CEC-TB \ Eberhardt \ X-CEC-SV \ X-CEC-SP \ X-CEC-LP_PLNT \ X-CEC-AP\




## TESC NOTES

1. CONTRACTOR TO FIELD LOCATE TESC CONTROLS TO ADJUST TO CHANGING SITE CONDITIONS AND CONSTRUCTION PROGRESS.
2. PROVIDE PROTECTION IN ALL DOWNSTREAM INLETS AND CATCH BASINS WITHIN 500 FEET OF THE PROPERTY.
3. PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE THROUGH THE USE OF PERIMETER CONTROLS SUCH AS FILTER FABRIC FENCE, COMPOST SOCKS, STRAW WATTLES, INTERCEPTOR DITCHES OR BERMS.
4. MINIMUM TEMPORARY SEDIMENT POND VOLUME = 9,870 CUBIC FOOT OF WATER. ADJUST THE SIZE OF THE POND AS NEEDED TO MEET THE WATER QUALITY DISCHARGE REQUIREMENTS.
5. CONTRACTOR TO REMOVE AND DISPOSE OF ALL TESC MEASURES AT THE COMPLETION OF THE PROJECT WHEN ALL DISTURBED AREAS HAVE BEEN FULLY STABILIZED.
6. INTERCEPTOR DITCH ELEVATIONS SHOWN SCHEMATICALLY FOR FULLY EXCAVATED SITE CONDITION. CONTRACTOR TO FIELD ADJUST LOCATION AND SLOPE TO MAINTAIN 0.5% MIN.
7. INTERCEPTOR DITCH TO BE ARMORED/DIKED AS NECESSARY TO CONTROL EROSION WITHIN THE SWALES THEMSELVES.
8. PROTECT EXISTING TREES TO REMAIN AS SHOWN. REFER TO LANDSCAPE PLANS FOR TREE PROTECTIONS.
9. IN LOW DISTURBANCE AREAS, MINIMIZE SOIL REMOVAL TO PREVENT DAMAGE TO EXISTING TREES. SEE LANDSCAPE PLANS FOR TREE PROTECTION.
10. TO PREVENT SOIL COMPACTION, VEHICLE AND EQUIPMENT TRAFFIC SHALL BE PROHIBITED OVER INFILTRATION AREAS AND SEDIMENTATION FROM OCCURRING WITHIN THE FOOTPRINT OF INFILTRATION FACILITY. TO ADDRESS POTENTIAL SMEARING AND SEALING OF SUBGRADE SOIL SURFACE FROM EXCAVATION, CONTRACTOR SHALL SCARIFY AND RAKE THE SIDES SLOPES AND THE BOTTOM OF THE INFILTRATION FACILITY.

## LEGEND

- PROPERTY/ RIGHT-OF-WAY LINE
- APPROX. LIMIT OF WORK
- BUILDING OUTLINE
- STORMWATER FACILITY
- CONSTRUCTION FENCE
- INTERCEPTOR DITCH (5 / C102)
- SILT FENCE/ COMPOST SOCK (1 / C102) (2 / C102)
- TREE PROTECTION FENCE (4 / C102)
- CHECK DAM (6 / C102)
- CUT SLOPE
- STORM DRAIN FACILITY
- STABILIZED CONSTRUCTION ENTRANCE (3 / C102)
- LOW DISTURBANCE AREA

0 10 20 40
1 inch = 20 feet

Call 811 two business days before you dig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JOHN DAN EBERHARDT STATE OF WASHINGTON 31745 REGISTERED PROFESSIONAL ENGINEER
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**TESC PLAN**

SCALE: AS NOTED
DRAWN: KWP
CHECKED: JDE / KEC
PROJECT NO: 115318

SHEET:

**C101**

Apr 09, 2021 – 5:00pm EricaGF X:\115000-115400\115318 (Chehalis Elder Center)\CAD\Design\C0C-100-EC.dwg
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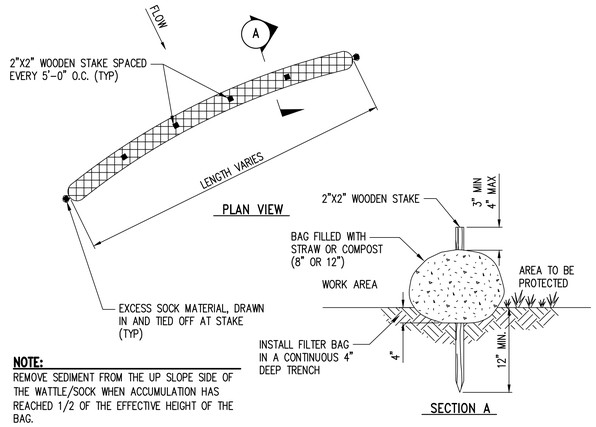
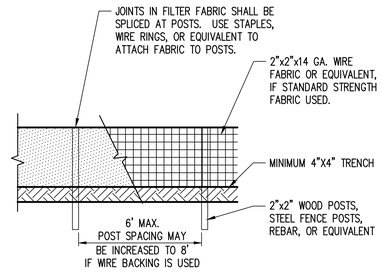
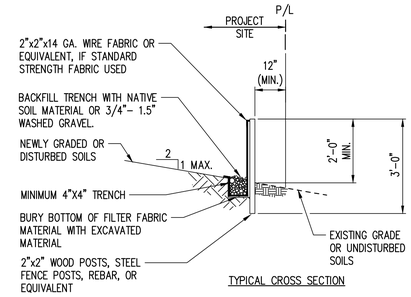



**NOTE:**
REMOVE SEDIMENT FROM THE UP SLOPE SIDE OF THE WATTLE/SOCK WHEN ACCUMULATION HAS REACHED 1/2 OF THE EFFECTIVE HEIGHT OF THE BAG.

## STRAW WATTLE\COMPOST SOCK DETAIL (1 / C101)
NTS



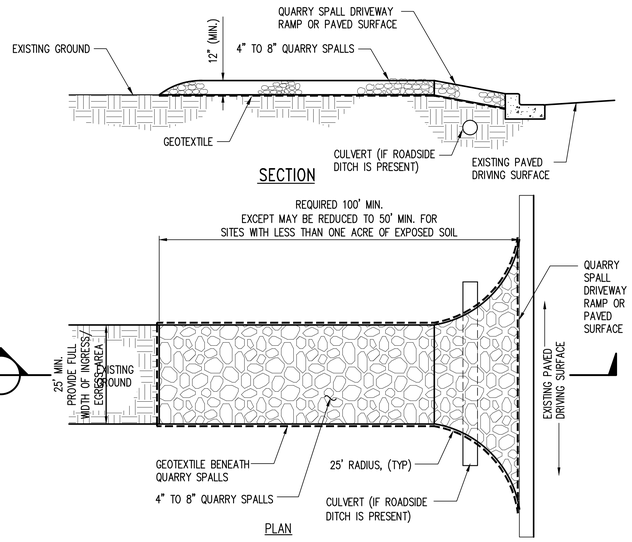

**MAINTENANCE STANDARDS:**

1. ANY DAMAGE TO THE FENCE SHALL BE REPAIRED IMMEDIATELY.
2. IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT TRAP OR POND.
3. IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGNS OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCURS, REPLACE THE FENCE OR REMOVE THE TRAPPED SEDIMENT.
4. SEDIMENT MUST BE REMOVED WHEN THE SEDIMENT IS 6" HIGH.
5. IF THE FILTER FABRIC HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.
6. WHERE THE FENCE IS INSTALLED, THE SLOPE SHALL BE NO STEEPER THAN 2H:1V.

**NOTE:**
STANDARD STRENGTH FABRIC REQUIRES USE OF FABRIC REINFORCING. USE 2"x2" WIRE MESH, PRE-FABRICATED POLYMERIC MESH, SAFETY FENCE OR EQUAL TO INCREASE THE STRENGTH OF THE FABRIC. THE STRENGTH OF THE REINFORCING MATERIAL SHALL BE EQUIVALENT TO OR GREATER THAN 180 LBS GRAB TENSILE STRENGTH.

| FILTER FABRIC SPECIFICATIONS | |
|---|---|
| AOS (ASTM D4751) | 30 SIEVE MAX. SIZE (0.60 mm) FOR SLIT FILM WOVEN 50 MAX.-100 MIN. SIEVE SIZE (0.30-0.15 mm) FOR ALL OTHER GEOTEXTILE TYPES |
| WATER PERMITTIVITY (ASTM D4491) | 0.02 SEC-1 MINIMUM |
| GRAB TENSILE STRENGTH (ASTM D4632) | 180LBS MIN. FOR EXTRA STRENGTH FABRIC<br>100LBS MIN. FOR STANDARD STRENGTH FABRIC |
| GRAB TENSILE ELONGATION (ASTM D4632) | 30% MAX. |
| ULTRAVIOLET RESISTANCE (ASTM D4355) | 70% MAX. |

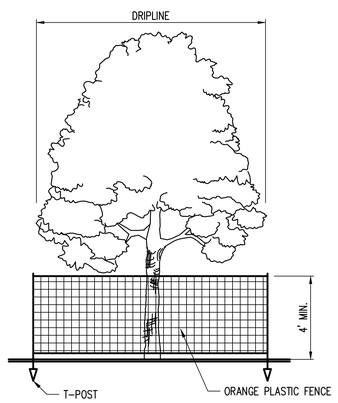
## SILT FENCE DETAIL (2 / C101)
NTS




**MAINTENANCE STANDARDS**

1. QUARRY SPALLS SHALL BE ADDED IF THE PAD IS NO LONGER IN ACCORDANCE WITH THE SPECIFICATIONS.
2. IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE STREET SWEEPING, AN INCREASE IN THE DIMENSIONS OF THE ENTRANCE, OR THE INSTALLATION OF A WHEEL WASH. IF WASHING IS USED, IT SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK, AND WASH WATER SHALL DRAIN TO A SEDIMENT TRAP OR POND.
3. ANY SEDIMENT THAT IS TRACKED ONTO PAVEMENT SHALL BE REMOVED IMMEDIATELY BY SWEEPING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED OR STABILIZED ON-SITE. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN SWEEPING IS INEFFECTIVE AND THERE IS A THREAT TO PUBLIC SAFETY. IF IT IS NECESSARY TO WASH THE STREETS, THE CONSTRUCTION OF A SMALL SUMP SHALL BE CONSIDERED. THE SEDIMENT WOULD THEN BE WASHED INTO THE SUMP.
4. ANY QUARRY SPALLS THAT ARE LOOSENED FROM THE PAD AND END UP ON THE ROADWAY SHALL BE REMOVED IMMEDIATELY.
5. IF VEHICLES ARE ENTERING OR EXITING THE SITE AT POINTS OTHER THAN THE CONSTRUCTION ENTRANCE(S), FENCING SHALL BE INSTALLED TO CONTROL TRAFFIC.

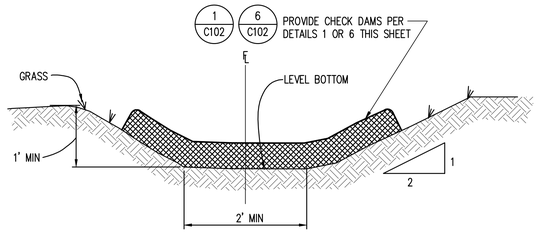
## CONSTRUCTION ENTRANCE DETAIL (3 / C101)
NTS




**NOTES:**

1. TEMPORARY FENCE SHALL BE PLACED AT DRIPLINE OF TREE TO BE SAVED. FENCE SHALL COMPLETELY ENCIRCLE TREE(S). INSTALL FENCE POSTS USING T-POST ONLY. AVOID DRIVING POSTS OR STAKES INTO MAJOR ROOTS.
2. TREATMENT OF ROOTS EXPOSED DURING CONSTRUCTION: FOR ROOTS OVER 1" IN DIAMETER DAMAGED DURING CONSTRUCTION. MAKE A CLEAN STRAIGHT CUT TO REMOVE DAMAGED PORTION OF ROOT. ALL EXPOSED ROOTS SHALL BE TEMPORARILY COVERED WITH DAMP BURLAP TO PREVENT DRYING, AND COVERED WITH SOILS AS SOON AS POSSIBLE.
3. WORK WITHIN PROTECTION FENCE SHALL BE DONE MANUALLY. NO STOCKPILING OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MACHINERY SHALL BE ALLOWED WITHIN THE LIMITS OF THE FENCING.
4. WITHIN CLEARING/GRADING LIMITS OR AT THE EDGE OF THE CLEARING/GRADING LIMITS, TREE PROTECTION MAY BE INSTALLED AROUND GROUPS OF TREES.

## 4-FT ORANGE BARRIER TREE PROTECTION DETAIL (4 / C101)
NTS




## INTERCEPTOR SWALE (5 / C101)
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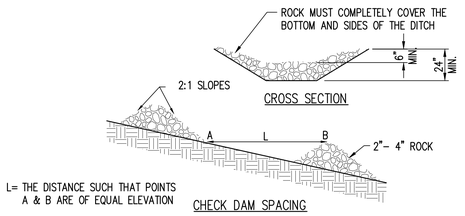
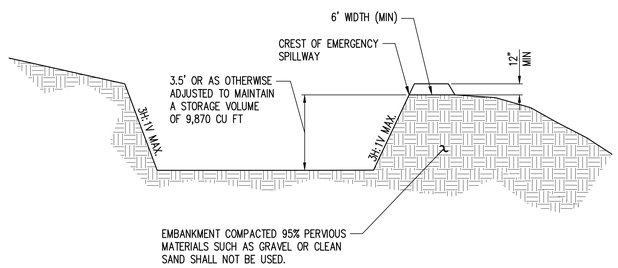



**MAINTENANCE STANDARDS**

1. ANY SEDIMENT DEPOSITION OF MORE THAN 0.5 FEET SHALL BE REMOVED SO THAT THE CHANNEL IS RESTORED TO ITS DESIGN CAPACITY.
2. IF THE CHANNEL CAPACITY IS INSUFFICIENT FOR THE DESIGN STORM, IT MUST BE DETERMINED WHETHER THE PROBLEM IS LOCAL (E.G., A CONSTRICTION OR BEND) OR THE CHANNEL IS UNDERDESIGNED. IF THE PROBLEM IS LOCAL, THE CHANNEL CAPACITY MUST BE INCREASED THROUGH CONSTRUCTION OF A BERM(S) OR BY EXCAVATION. IF THE PROBLEM IS UNDERDESIGN, THE DESIGN ENGINEER SHALL BE NOTIFIED AND THE CHANNEL REDESIGNED TO A MORE CONSERVATIVE STANDARD TO BE APPROVED BY KING COUNTY.
3. THE CHANNEL SHALL BE EXAMINED FOR SIGNS OF SCOURING AND EROSION OF THE BED AND BANKS. IF SCOURING OR EROSION HAS OCCURRED, AFFECTED AREAS SHALL BE PROTECTED BY RIP-RAP OR AN EROSION CONTROL BLANKET OR NET.

## ROCK CHECK DAMS (6 / C101)
NTS




## TEMPORARY SEDIMENT POND CROSS-SECTION (7 / C101)
NTS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JOHN DAN EBERHARDT, STATE OF WASHINGTON, 31745, REGISTERED PROFESSIONAL ENGINEER
04/09/2021

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# Chehalis Elders Center

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THE CHEHALIS TRIBE

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CONTENTS:
**TESC DETAILS**

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| SCALE: | AS NOTED |
| DRAWN: | KWP |
| CHECKED: | JDE / KEC |
| PROJECT NO: | 115318 |

SHEET:
**C102**


Apr 09, 2021 - 5:00pm Emailed: X:\115300-115400\115318 (Chehalis Elder Center)\CADD\Design\CEC-500-01.dwg
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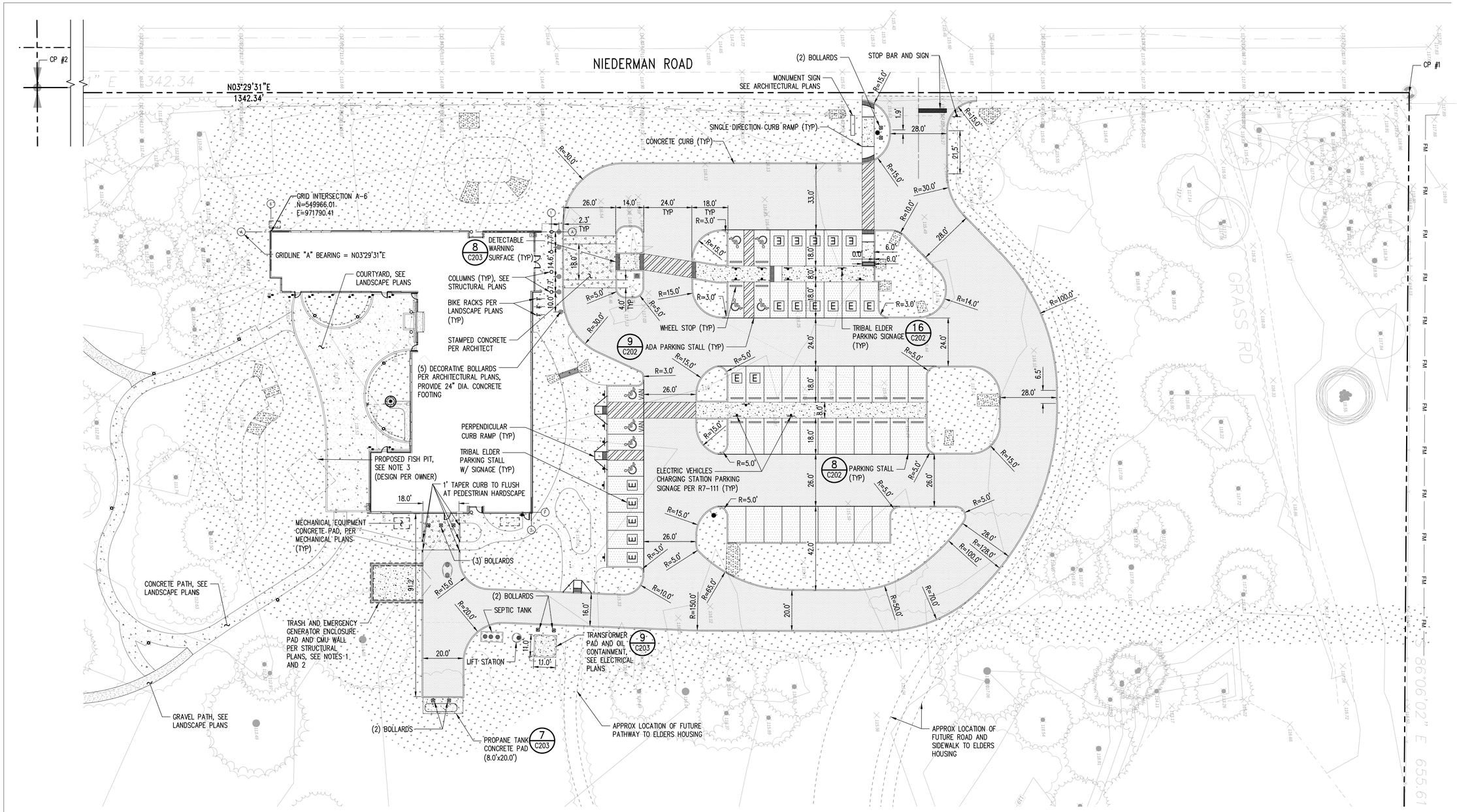


## GRADING AND STORM DRAINAGE NOTES

1. CONTRACTOR SHALL PROVIDE 4" THICK COMPACTED SUBGRADE AND BASE MATERIAL TO AT LEAST 95 PERCENT OF MDD BELOW SLAB.
2. DESIGN ASSUMES THE GENERATOR MODEL SELECTED WILL NOT REQUIRE EXTERNAL SPILL CONTAINMENT. CONTRACTOR TO VERIFY WITH THE PROJECT'S ELECTRICAL ENGINEER PRIOR TO CONSTRUCTION.
3. REPLICATE EXISTING FISH PIT AT THIS LOCATION. CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO CONSTRUCTION.

## LEGEND

- PROPERTY/ RIGHT-OF-WAY LINE
- CONCRETE CURB — 14 C202
- PERPENDICULAR CURB RAMP — 1 C203
- CONCRETE WHEEL STOP — 2 C203
- SIGN(S)
- STOP BAR — 10 C202
- ELDER PARKING STALLS — 12 C202
- BOLLARDS — 10 C203
- HEAVY DUTY ASPHALT PAVEMENT — 6 C202
- LIGHT DUTY ASPHALT PAVEMENT — 5 C202
- CONCRETE PAVEMENT — 4 C202
- CONCRETE SIDEWALK — 7 C202
- PAVEMENT MARKINGS — 9 C202, 11 C202
- CONCRETE PATH, SEE LANDSCAPE PLANS
- LANDSCAPE AREAS, SEE LANDSCAPE PLANS

0 10 20 40
1 inch = 20 feet

Call 811 two business days before you dig


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THE CHEHALIS TRIBE

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CONTENTS:

**PAVING AND HORIZONTAL CONTROL PLAN**

| | |
|---|---|
| SCALE: | AS NOTED |
| DRAWN: | KWP |
| CHECKED: | JDE / KEC |
| PROJECT NO: | 115318 |

SHEET:

**C201**

Apr 15, 2021 – 4:27pm Emerald X:\115000-115400\115318 (Chehalis Elder Center)\CADD\Dwgs\CEC-200-SP.dwg
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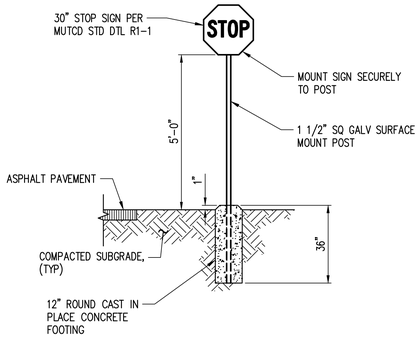
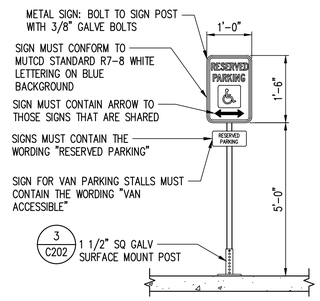



## STOP SIGN DETAIL (1 / C201)
NTS

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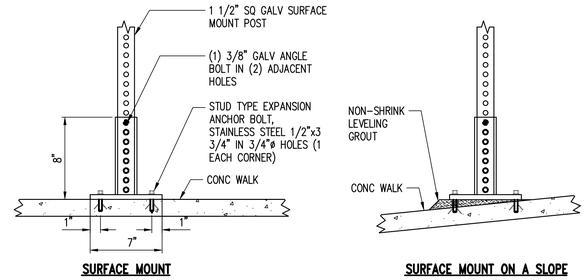


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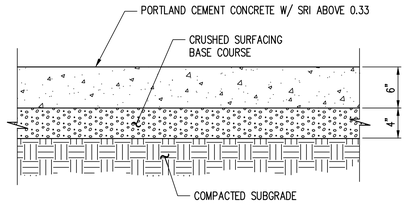


## CONCRETE PAVEMENT SECTION (4 / C201)
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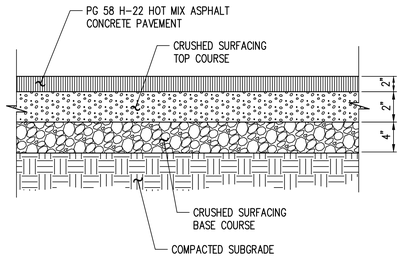


## LIGHT DUTY ASPHALT PAVEMENT SECTION (5 / C201)
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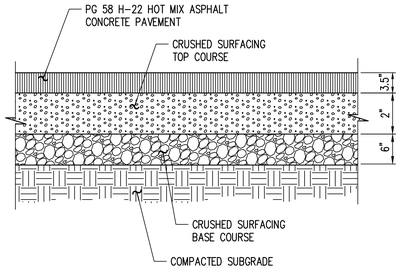


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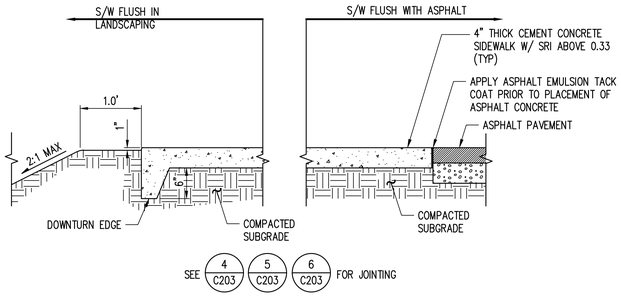


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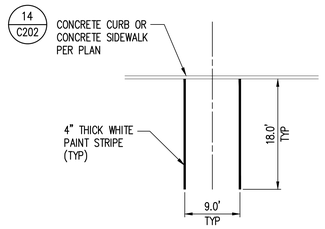


## PERPENDICULAR PARKING STALL DETAIL (8 / C201)
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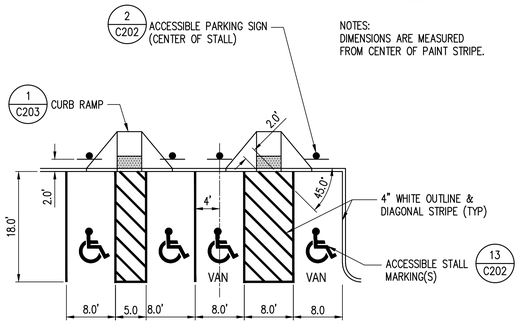
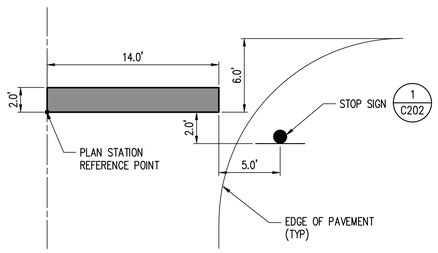
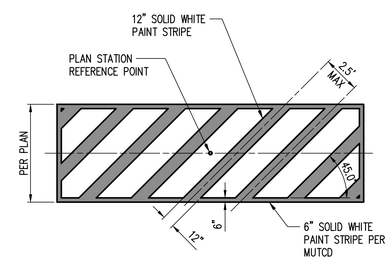


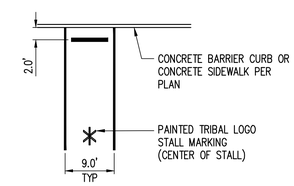

## ADA PARKING STALLS (9 / C201)
NTS




## STOP BAR DETAIL (10 / C201)
NTS




## CROSS WALK BAR DETAIL (11 / C201)
NTS




## TRIBAL ELDER PARKING STALL AND SIGN (12 / C201)
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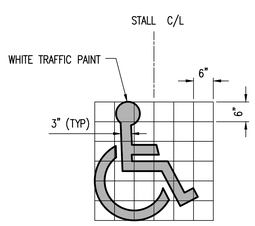
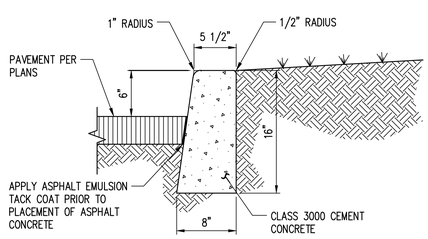



ACCESSIBLE STALL MARKING

## ADA ACCESSIBLE MARKING (13 / C201)
NTS




## CONCRETE CURB DETAIL (14 / C201)
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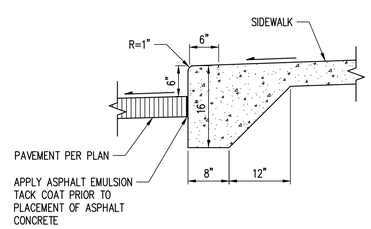
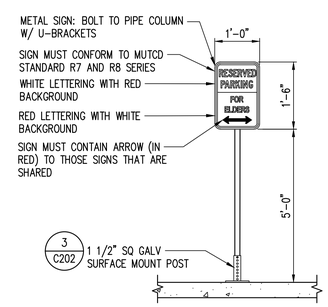



## MONOLITHIC CURB DETAIL (15 / C201)
NTS




## RESERVED PARKING FOR ELDERS SIGN (16 / C201)
NTS


arc ARCHITECTS
119 S MAIN ST
SUITE 200
SEATTLE, WA
98104-2579
206 322 3322

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com


LONG DAN EBERHARDT, STATE OF WASHINGTON, 31745, REGISTERED PROFESSIONAL ENGINEER
04/09/2021

# The Chehalis Tribe Chehalis Elders Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: APRIL 16, 2021

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| | | |

CONTENTS:

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| | |
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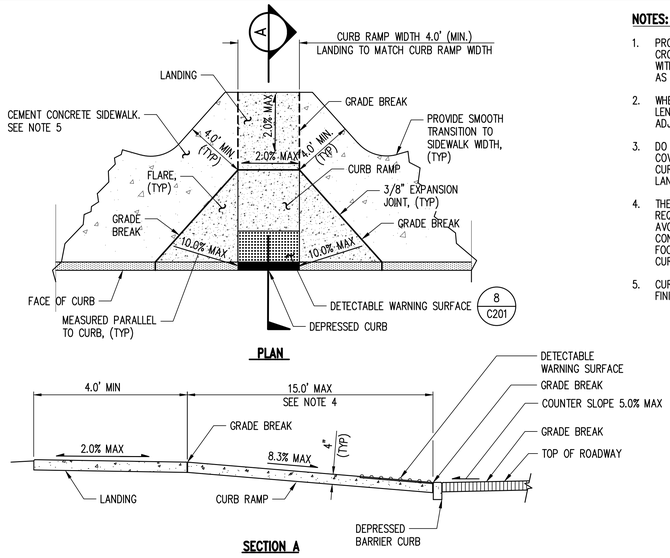
| SCALE: | AS NOTED |
| DRAWN: | KWP |
| CHECKED: | JDE / KEC |
| PROJECT NO: | 115318 |

SHEET:

**C202**


Apr 09, 2021 - 5:10pm EmerisJE
Xref Filename: \ X-CEC-TB \ Eberhardt\
X:\115000-115400\115318 (Chehalis Elder Center)\CADD\Design\CEC-500-07.dwg

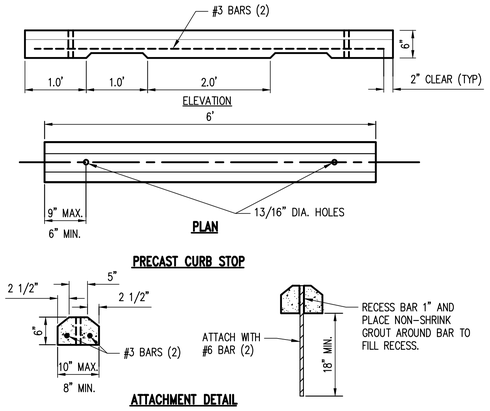



**NOTES:**

1. PROVIDE A SEPARATE CURB RAMP FOR EACH CROSSWALK. CURB RAMP LOCATION SHALL BE PLACED WITHIN THE WIDTH OF THE ASSOCIATED CROSSWALK, OR AS SHOWN IN THE CONTRACT PLANS
2. WHERE "GRADE BREAK" IS CALLED OUT, THE ENTIRE LENGTH OF THE GRADE BREAK BETWEEN THE TWO ADJACENT SURFACE PLANES SHALL BE FLUSH.
3. DO NOT PLACE GRATINGS, JUNCTION BOXES, ACCESS COVERS, OR OTHER APPURTENANCES IN FRONT OF THE CURB RAMP OR ON ANY PART OF THE CURB RAMP OR LANDING.
4. THE CURB RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE CURB RAMP SHALL AS FLAT AS FEASIBLE.
5. CURB RAMP, LANDING, & FLARES SHALL RECEIVE BROOM FINISH. SEE WSDOT STANDARD SPECIFICATIONS 8-14.

## TYPICAL PERPENDICULAR CURB RAMP TYPE A (1 / C201)

NTS



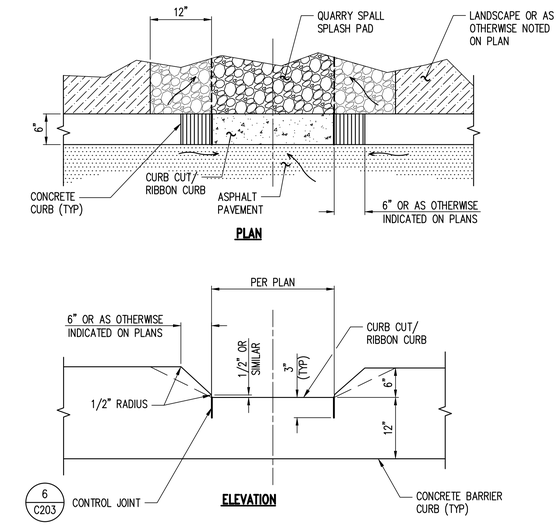

**PRECAST CURB STOP**

**NOTES:**

1. THE NON-SHRINK GROUT USED TO ATTACH THE PRECAST CURB SHALL CONSIST OF 3:1 SAND AND CEMENT. GROUT TO A DEPTH OF 1" FROM THE TOP OF THE BUMPER.
2. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.

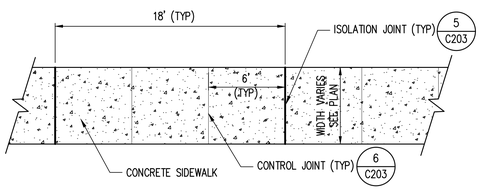
## CONCRETE WHEEL STOP DETAIL (2 / C201)

NTS




## CONCRETE TRANSITION CURB DETAIL (3 / C201)

SCALE: 1"=1'

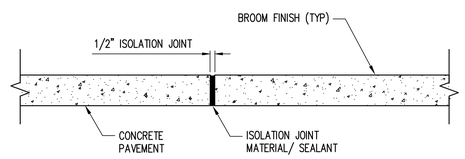



**NOTES:**

1. CONTRACTOR SHALL MAINTAIN JOINTS AT A 3:2 RATIO UNLESS SPECIFIED OTHERWISE BY ENGINEER.

## CONCRETE SIDEWALK DETAIL (4 / C201)

NTS

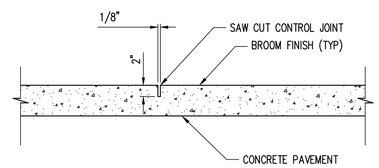



**NOTE:**

PROVIDE ISOLATION JOINTS AT INTERFACE WITH STRUCTURES (UTILITY AND BUILDING ELEMENTS)

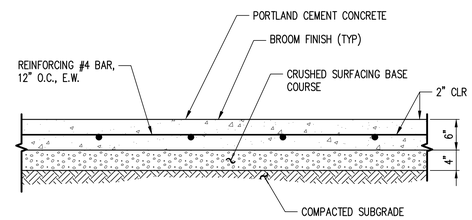
## ISOLATION JOINT DETAIL (5 / C201)

NTS




## CONTROL JOINT DETAIL (6 / C201)

NTS

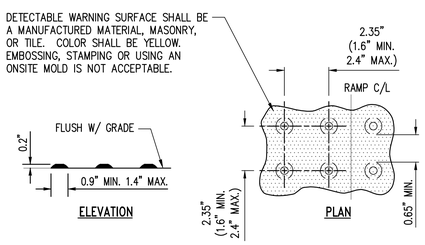



**NOTES:**

1. COMPACT SUBGRADE AND BASE MATERIAL TO AT LEAST 95 PERCENT OF MDD.
2. MINIMUM CONCRETE STRENGTH SHALL BE 4,000 PSI.

## PROPANE TANK CONCRETE PAD (7 / C201)

NTS

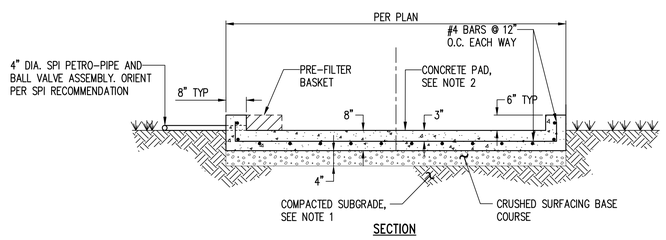



**GENERAL NOTES:**

1. DIMENSIONS SHOWN ARE NOMINAL DIMENSIONS.
2. THE DETECTABLE WARNING SURFACE SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP (EXCLUSIVE OF FLARES) OR THE LANDING.
3. THE EDGE OF THE DETECTABLE WARNING SURFACE SHALL BE PLACED ALONG THE BACK OF THE CURB LINE.
4. THE ROWS OF TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL BE PARALLEL WITH THE DIRECTION OF WHEEL CHAIR TRAVEL.
5. IF A CURB IS NOT PRESENT, PLACE THE DETECTABLE WARNING SURFACE AT THE EDGE OF THE PAVEMENT.
6. IF A CURB RAMP IS REQUIRED, THE LOCATION OF THE DETECTABLE WARNING SURFACE MUST BE AT THE BOTTOM OF THE RAMP.

## DETECTABLE WARNING SURFACE (8 / C201)

NTS

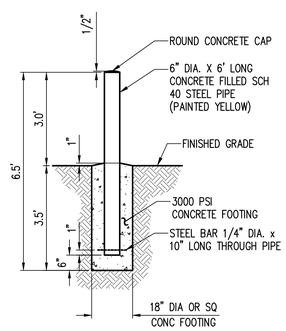



**NOTES:**

1. COMPACT SUBGRADE AND BASE MATERIAL TO AT LEAST 95 PERCENT OF MDD.
2. MINIMUM CONCRETE STRENGTH SHALL BE 4,000 PSI.

## TRANSFORMER CONCRETE PAD AND OIL CONTAINMENT DETAIL (9 / C201)

SCALE: NTS




**NOTE**

1. THE BOLLARD SHALL BE 6" ID, SCHEDULE 40 GALVANIZED STEEL PIPE FILLED WITH CONCRETE AND ROUNDED CAP.

## PERMANENT BOLLARD DETAIL (10 / C201)

NTS


a|r|c ARCHITECTS
119 S MAIN ST
SUITE 200
SEATTLE, WA
98104-2579
206 322 3322

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
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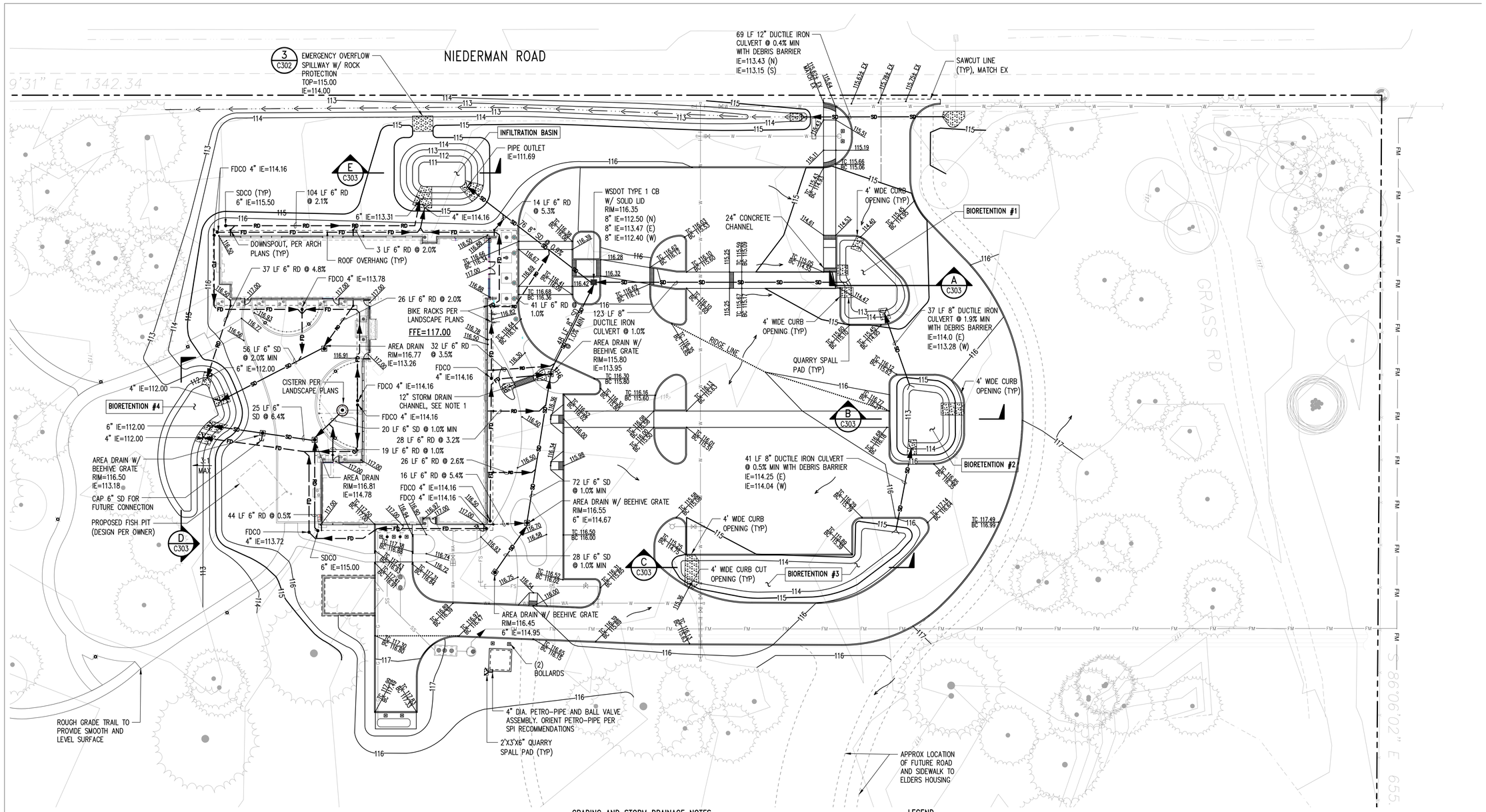
| PROJECT NO: | 115318 |

SHEET:

**C203**


Apr 09, 2021 - 5:00pm EmeliaE
Xref Filename: \ X-CEC-TB \ Eberhardt\
X:\115000-115400\115318 (Chehalis Elder Center)\CADD\Design\CEC-500-D7.dwg




## GRADING AND STORM DRAINAGE NOTES

1. STORM DRAIN CHANNEL SHALL BE NDS PRO SERIES CHANNEL DRAIN W/ PEDESTRIAN GRATE OR EQUIVALENT PRODUCT. SIZE PER PLAN.
2. CONTRACTOR SHOULD PROTECT INFILTRATION FACILITIES DURING CONSTRUCTION.
3. SEE LANDSCAPE PLANS FOR TREE PROTECTION, PLANTING, TRAILS, COURTYARD GRADING, AND OTHER SITE FEATURES.
4. CONTRACTOR SHALL FURNISH AND INSTALL COMPOST AMEND SOIL AND HYDROSEED ALL DISTURBED AREAS.
5. FOUNDATION DRAIN PIPE SHALL BE SLOPED AT 0.5% MIN. UNLESS OTHERWISE SPECIFIED. WHERE FOUNDATION DRAIN PIPE IS LESS THEN 0.5% CONTRACTOR SHALL CONFIRM SLOPE WITH GEOTECHNICAL CONSULTANT PRIOR TO INSTALLATION.
6. CONTRACTOR SHALL PROVIDE SLEEVES, AS REQUIRED, FOR PVC PIPE CROSSING BENEATH FOOTINGS OR THROUGH CONCRETE WALLS AND FOUNDATION ELEMENTS. SEE STRUCTURAL PLANS FOR DETAILS AND COORDINATE WITH THE STRUCTURAL ENGINEER.

## LEGEND

- PROPERTY/ RIGHT-OF-WAY LINE
- SD — STORM DRAIN CULVERT
- GRADE BREAK
- RD — ROOF DRAIN
- FD — FOUNDATION DRAIN (4 / C302)
- 115 — PROPOSED CONTOUR
- FLOW LINE
- 115.0 — SPOT ELEVATION
- 2% — FLOW
- WSDOT TYPE 1 CATCH BASIN PER PLAN (CB)
- AREA DRAIN (AD) (5 / C302)
- STORM DRAIN CHANNEL
- FOUNDATION/STORM DRAIN CLEAN OUT (FDCO/SDCO) (1 / C302)
- QUARRY SPALL PAD/SLOPE PROTECTION (2 / C302)
- DOWNSPOUT (PER ARCHITECTURAL PLANS)
- CONCRETE CHANNEL (7 / C302)

0 10 20 40
1 inch = 20 feet

811 Call 811 two business days before you dig


arc ARCHITECTS
119 S MAIN ST
SUITE 200
SEATTLE, WA
98104-2579
206 322 3322

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
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CONTENTS:

## GRADING AND STORM DRAINAGE PLAN

| | |
|---|---|
| SCALE: | AS NOTED |
| DRAWN: | KWP |
| CHECKED: | JDE / KEC |
| PROJECT NO: | 115318 |

SHEET:

# C301


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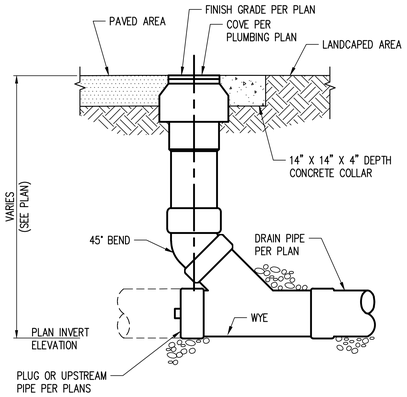
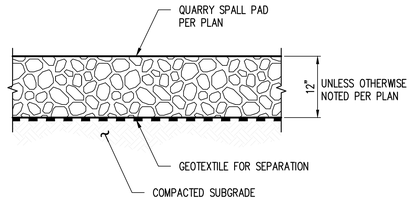


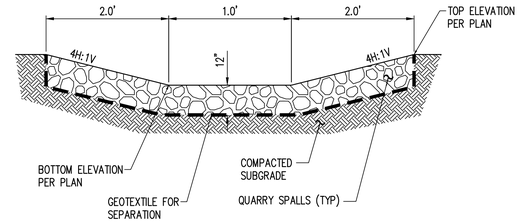

## FOUNDATION/ STORM DRAIN CLEANOUT DETAIL (1 / C301)

NTS




## QUARRY SPALL PAD/ SLOPE PROTECTION DETAIL (2 / C301)

NTS




## EMERGENCY OVERFLOW SPILLWAY DETAIL (3 / C301)

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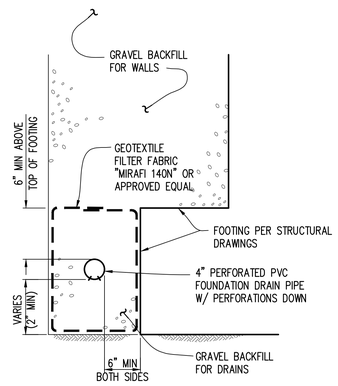
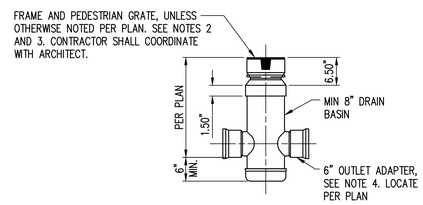



## FOOTING DRAINAGE SECTION (4 / C301)

NTS

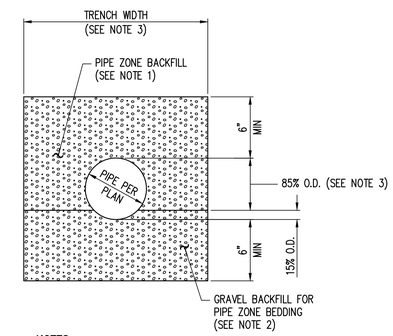



**NOTES:**

1. AREA DRAINS SHALL BE ADVANCED DRAINAGE SYSTEMS (ADS) NYLOPLAST DRAIN BASINS, OR APPROVED EQUAL.
2. FRAME SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3. OPENINGS IN PEDESTRIAN GRATE SHALL MEET ADA REQUIREMENTS.
4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC.
5. STANDARD DRAIN BASIN HAS FIXED ADAPTER LOCATIONS OF 0° & 180°. CUSTOM DRAIN BASIN ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°.
6. DIMENSIONS ARE FOR REFERENCE ONLY, ACTUAL DIMENSIONS MAY VARY.

## AREA DRAIN DETAIL (5 / C301)

NTS

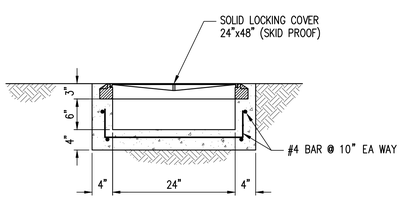



**NOTES:**

1. SEE 2020 WSDOT STANDARD SPECIFICATIONS SECTION 7-08.3(3) FOR PIPE ZONE BACKFILL.
2. SEE 2020 WSDOT STANDARD SPECIFICATIONS SECTION 9-03.12(3) FOR GRAVEL BACKFILL PIPE ZONE BEDDING.
3. FOR SANITARY SEWER INSTALLATION, CONCRETE PIPE SHALL BE BEDDED TO SPRING LINE.

## STORM PIPE TRENCH DETAIL (6 / C301)

NTS




## 24-INCH CONCRETE CHANNEL SECTION (7 / C301)

NTS


a|r|c ARCHITECTS
119 S MAIN ST
SUITE 200
SEATTLE, WA
98104-2579
206 322 3322

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1601 5th Avenue, Suite 1600
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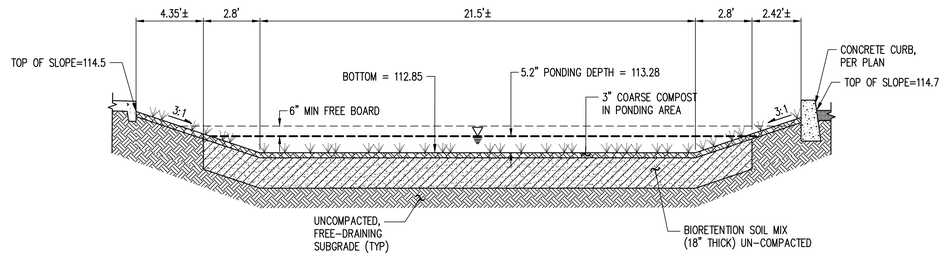
| DRAWN: | KWP |
| CHECKED: | JDE / KEC |
| PROJECT NO: | 115318 |

SHEET:

**C302**

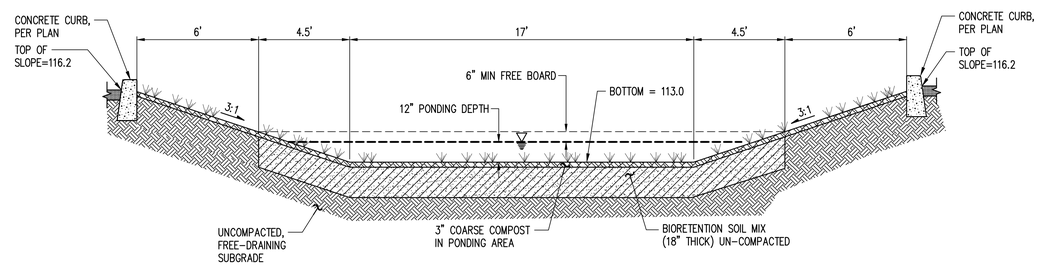

Apr 09, 2021 - 5:00pm EmerGuE X:\115000-115400\115318 (Chehalis Elder Center)\CADD\Design\CEC-500-07.dwg
Xref Filename: \ X-CEC-TB \ Eberhardt\




## BIORETENTION #1 SECTION

SCALE: NTS

A / C301




## BIORETENTION #2 SECTION

SCALE: NTS

B / C301

### BIOINFILTRATION SOIL MIX

1. MIX 60%-65% GRAVELLY SAND AND 35%-40% COMPOST. PLACE MATERIAL IN LOCATIONS AS INDICATED IN THE PLANS TO A SETTLED DEPTH OF 18-INCHES. CEC ≥5 MEQ/100 GRAMS; PERCENT FINES 2-5%.
2. GRAVELLY SAND GRADATION SHALL BE PER ASTM D 422:

   SIEVE SIZE PERCENT PASSING:

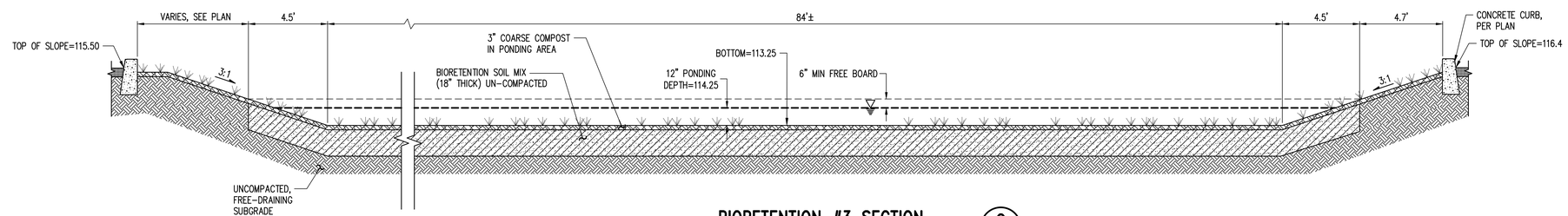
   2-INCH 100%;

   3/4-INCH 70- 100%;

   1/4-INCH 50-80%;

   US NO. 40 15-40%;

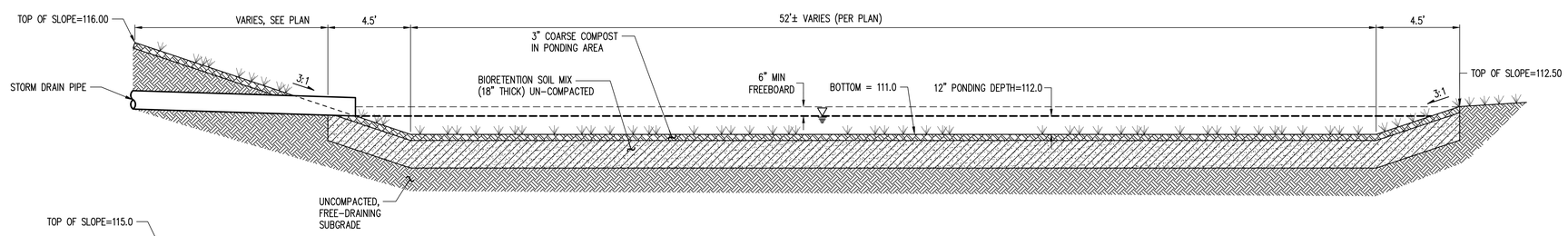
   US NO. 200 0-3%.
3. PLACE SOIL IN LIFTS NOT EXCEEDING 6 INCHES. THE SOIL MIXTURE SHOULD BE UNIFORM, FREE OF STONES STUMPS, ROOTS, OR OTHER SIMILAR OBJECTS LARGER THAN 2 INCHES.
4. ON-SITE SOIL MIXING OR PLACEMENT IS NOT ALLOWED IF SOIL IS SATURATED OR SUBJECT TO SATURATION WITHIN 48 HOURS.
5. COVERED MATERIAL SHALL BE STORED ACCORDINGLY TO PREVENT WETTING OR SATURATION.
6. ORGANIC MATTER IN COMPOST PER 8-10% BY WEIGHT.
7. PLANTING PER LANDSCAPE PLAN.




## BIORETENTION #3 SECTION

SCALE: NTS

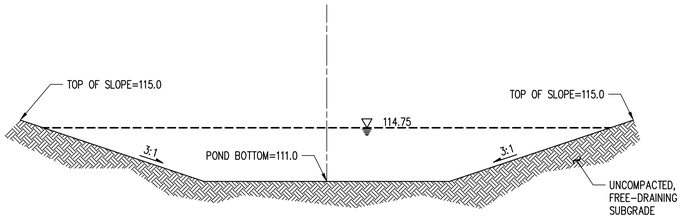
C / C301




## BIORETENTION #4 SECTION

SCALE: NTS

D / C301




## INFILTRATION BASIN DETAIL

NTS

E / C301


arc ARCHITECTS
119 S MAIN ST
SUITE 200
SEATTLE, WA
98104-2579
206 322 3322

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com


JOHN DAN EBERHARDT, STATE OF WASHINGTON, 31745, REGISTERED PROFESSIONAL ENGINEER
04/09/2021

# The Chehalis Tribe
# Chehalis Elders Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:

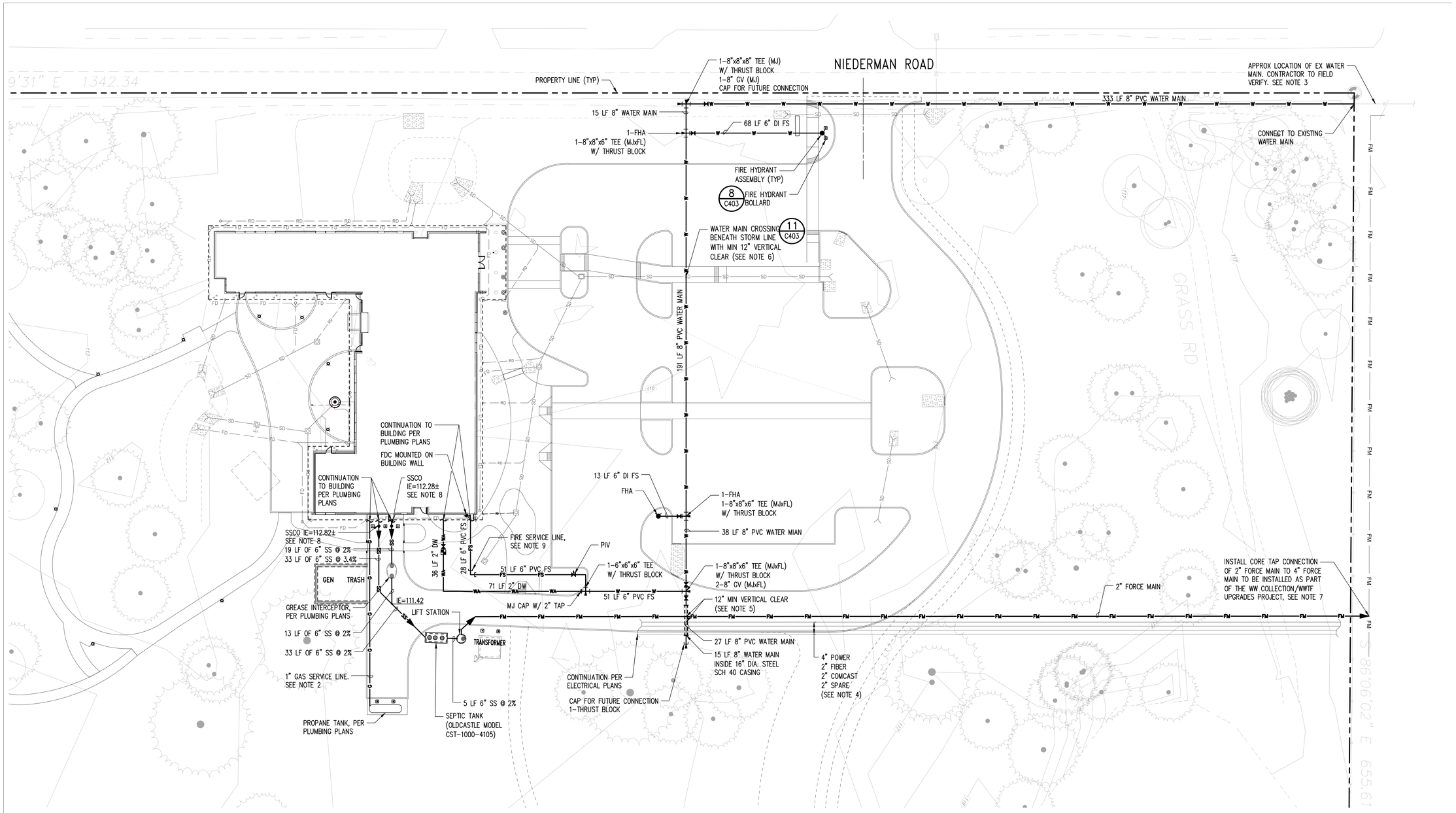
**STORM DRAINAGE DETAILS**

| | |
|---|---|
| SCALE: | AS NOTED |
| DRAWN: | KWP |
| CHECKED: | JDE / KEC |
| PROJECT NO: | 115318 |

SHEET:

**C303**

Apr 09, 2021 - 5:00pm EmesKE
Xref Filename: \ X-CEC-TB \ Eberhardt\
X:\115000-115400\115318 (Chehalis Elder Center)\CADD\Design\CEC-500-01.dwg




## UTILITY NOTES

1. REFER TO GENERAL NOTES ON SHEET C002 FOR WATER MAIN REQUIREMENTS.
2. PROVIDE GAS SERVICE TO BUILDING IN ACCORDANCE WITH LATEST PSE GAS SERVICE HANDBOOK.
3. APPROXIMATE LOCATION OF EXISTING WATER MAIN HAS BEEN SHOWN BASED ON PLANS PROVIDED BY CHEHALIS PLANNING DEPARTMENT.
4. FOR ELECTRICAL AND COMMUNICATION DETAILS SEE ELECTRICAL PLANS. CONTRACTOR SHALL COORDINATE AND PROVIDE AN OPEN TRENCH FOR GRAYS HARBOR PUBLIC UTILITY TO INSTALL THE DUCT BANK.
5. SANITARY SEWER FORCE MAIN AND ELECTRICAL DUCT BANK SHALL CROSS BENEATH WATER MAIN WITH A MINIMUM OF 12-INCH VERTICAL SEPARATION.
6. INSTALL WATER MAIN AT A STRAIGHT GRADE WITH CONSTANT SLOPE (NO VERTICAL BENDS) FROM NIEDERMAN ROAD CROSSING THE SITE TO THE EAST TO THE FUTURE POINT OF CONNECTION.
7. APPROXIMATE LOCATION OF THE EXISTING SANITARY SEWER FORCE MAIN HAS BEEN SHOWN BASED ON THE PLANS PROVIDED BY CENTURY WEST ENGINEERING.
8. TRANSITION TO LARGER SEWER PIPE DIAMETER AT CLEAN OUT.
9. ALL FIRE SERVICE LINES SHALL UTILIZE RESTRAINED JOINTS.

## LEGEND

- PROPERTY/ RIGHT-OF-WAY LINE
- APPROX LIMIT OF WORK
- SS — SANITARY SEWER SERVICE (5 / C403)
- FM — SANITARY SEWER FORCE MAIN
- W — WATER MAIN/LATERAL SERVICE (5 / C403)
- WA — 2" DOMESTIC WATER SERVICE
- FS — FIRE SERVICE
- SANITARY SEWER CLEANOUT (1 / C402)
- GREASE INTERCEPTOR VAULT
- GATE VALVE (2 / C403)
- POST INDICATOR VALVE (PIV) (8 / C403)
- FIRE HYDRANT ASSEMBLY (1 / C403)
- DOMESTIC WATER METER (9 / C403)
- THRUST BLOCK (3 / C403) (4 / C403)
- TEE
- BLIND FLANGE W/ TB
- G — GAS (PROPANE) (3 / C402)
- LIFT STATION (2 / C402)
- CASING PIPE (10 / C403)

0 10 20 40
1 inch = 20 feet

Call 811 two business days before you dig


arc ARCHITECTS
119 S MAIN ST
SUITE 200
SEATTLE, WA
98104-2579
206 322 3322

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1601 5th Avenue, Suite 1600
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CONTENTS:

**UTILITY PLAN**

| | |
|---|---|
| SCALE: | AS NOTED |
| DRAWN: | KWP |
| CHECKED: | JDE / KEC |
| PROJECT NO: | 115318 |

SHEET:

**C401**


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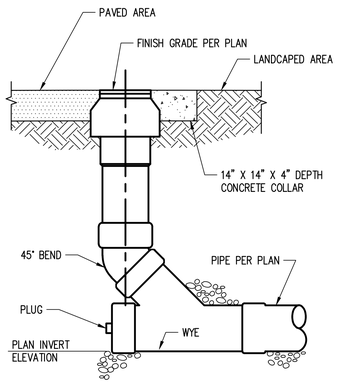
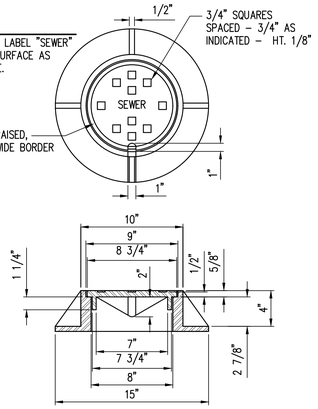
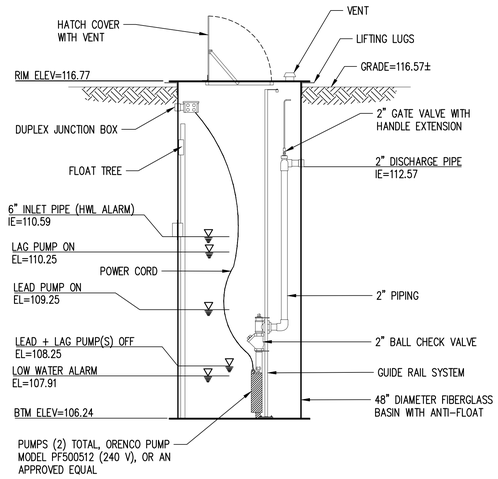



SANITARY SEWER CLEANOUT DETAIL 1 C401
NTS

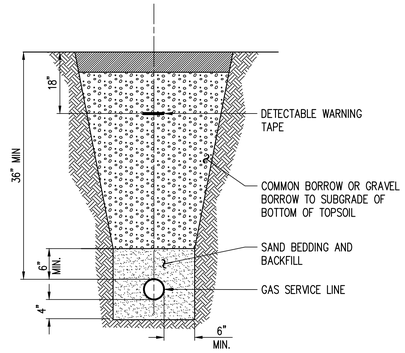
**NOTE:**
LID TO HAVE LABEL "SEWER" CAST INTO SURFACE AS APPROPRIATE.




CAST IRON RING & COVER




SANITARY SEWER LIFT STATION DETAIL 2 C401
NTS




NOTE
1. PROVIDE 12 INCH SEPARATION FROM ALL UTILITIES, MINIMUM.
2. PROVIDE GAS UTILITY IN ACCORDANCE WITH LOCAL INSTALLATION REQUIREMENTS.

GAS (PROPANE) TRENCH DETAIL 3 C401
NTS


a|r|c ARCHITECTS
119 S MAIN ST
SUITE 200
SEATTLE, WA
98104-2579
206 322 3322

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
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**UTILITY DETAILS**

SCALE: AS NOTED
DRAWN: KWP
CHECKED: JDE / KEC
PROJECT NO: 115318

SHEET:
**C402**


Apr 09, 2021 - 5:01pm Emelia€
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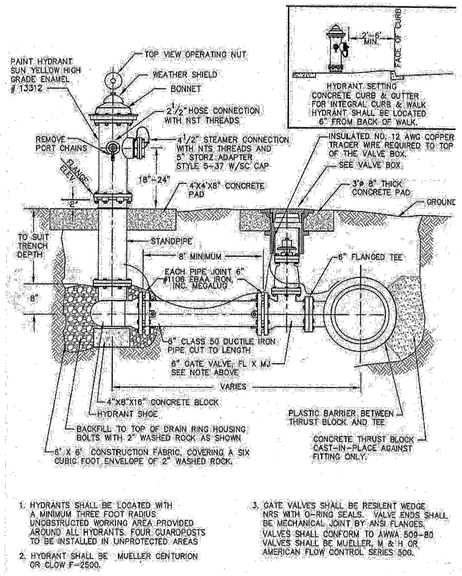
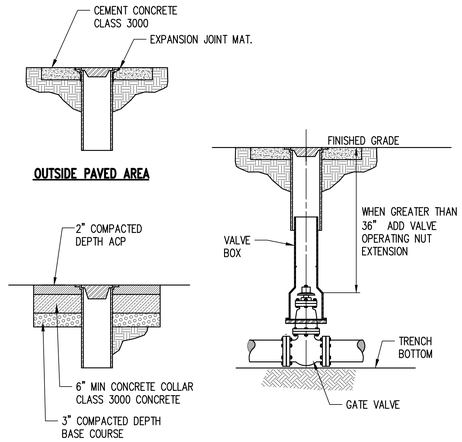



1. HYDRANTS SHALL BE LOCATED WITH A MINIMUM THREE FOOT RADIUS UNOBSTRUCTED WORKING AREA PROVIDED AROUND ALL HYDRANTS. FOUR GUARDPOSTS TO BE INSTALLED IN UNPROTECTED AREAS
2. HYDRANT SHALL BE MUELLER CENTURION OR GLOW F-2500.
3. GATE VALVES SHALL BE RESILENT WEDGE NRS WITH O-RING SEALS. VALVE ENDS SHALL BE MECHANICAL JOINT BY ANSI FLANGES. VALVES SHALL CONFORM TO AWWA 509-80 VALVES SHALL BE MUELLER, M & H OR AMERICAN FLOW CONTROL SERIES 500.

## FIRE HYDRANT ASSEMBLY
NTS — 1 / C401



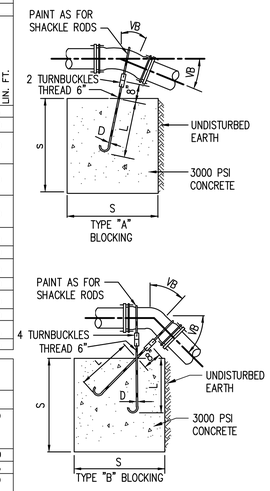

## GATE VALVE AND VALVE BOX DETAIL
NTS — 2 / C401

TYPE "A" BLOCKING
FOR 11 1/4°–22 1/2° VERTICAL BENDS

| PIPE SIZE NOMINAL DIAMETER- INCHES | TEST PRESSURE | VB VERTICAL BEND DEGREES | No. OF CU. FT. OF CONC. BLOCKING | S SIDE OF CUBE LIN. FT. | D DIAM. OF SHACKLE RODS (2) INCHES | L DEPTH OF RODS IN CONCRETE LIN. FT. |
|---|---|---|---|---|---|---|
| 4" | 300 | 11 1/4 | 8 | 2 | 5/8" | 1.5 |
| | | 22 1/2 | 11 | 2.2 | | 2.0 |
| 6" | 300 | 11 1/4 | 11 | 2.2 | 5/8" | 2.0 |
| | | 22 1/2 | 25 | 2.9 | | |
| 8" | 300 | 11 1/4 | 16 | 2.5 | 5/8" | 2.0 |
| | | 22 1/2 | 47 | 3.6 | | |
| 10" | 250 | 11 1/4 | 38 | 3.4 | 5/8" | 2.0 |
| | | 22 1/2 | 75 | 4.2 | | |
| 12" | 250 | 11 1/4 | 32 | 3.2 | 5/8" | 2.0 |
| | | 22 1/2 | 88 | 4.5 | 7/8" | 3.0 |
| 16" | 225 | 11 1/4 | 70 | 4.1 | 7/8" | 3.0 |
| | | 22 1/2 | 184 | 5.7 | 1 1/8" | 4.0 |
| 20" | 200 | 11 1/4 | 91 | 4.5 | 7/8" | 3.0 |
| | | 22 1/2 | 225 | 6.1 | 1 1/4" | 4.0 |
| 24" | 200 | 11 1/4 | 128 | 5.0 | 1" | 3.5 |
| | | 22 1/2 | 320 | 6.8 | 1 3/8" | 4.5 |

TYPE "B" BLOCKING
FOR – 45° VERTICAL BENDS

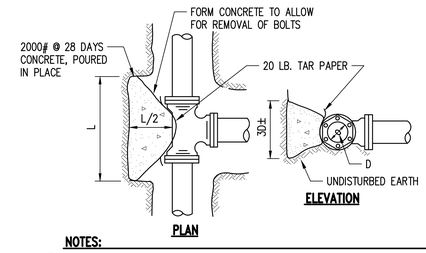
| | VB | | S | D | L |
|---|---|---|---|---|---|
| 4" | 300 | 45 | 30 | 3.1 | 5/8" | 2.0 |
| 6" | | | 68 | 4.1 | | |
| 8" | | | 123 | 5.0 | | |
| 10" | 250 | | 139 | 5.2 | 3/4" | 2.0 |
| 12" | 250 | | 232 | 6.1 | 3/4" | 2.5 |
| 16" | 225 | | 478 | 7.8 | 1 1/8" | 4.0 |
| 20" | 200 | | 560 | 8.2 | 1 1/4" | |
| 24" | | | 820 | 9.4 | 1 3/8" | 4.5 |




## VERTICAL THRUST BLOCKS (WATER MAINS)
NTS — 3 / C401

MINIMUM BEARING AREA TABLE

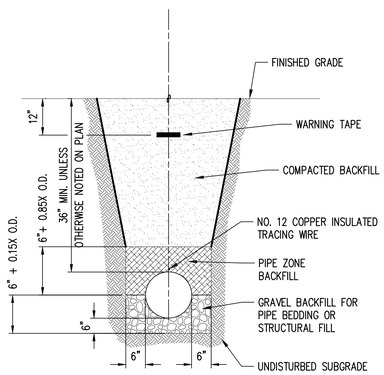
| FITTING ø | TEE | 90° | 45° | 22 1/2° | 11 1/4° |
|---|---|---|---|---|---|
| 4" | 4 SQ.FT. | 5 SQ.FT. | 3 SQ.FT. | 2 SQ.FT. | 1 SQ.FT. |
| 6" | 4 SQ.FT. | 6 SQ.FT. | 3 SQ.FT. | 2 SQ.FT. | 2 SQ.FT. |
| 8" | 7 SQ.FT. | 10 SQ.FT. | 6 SQ.FT. | 3 SQ.FT. | 2 SQ.FT. |
| 10" | 10 SQ.FT. | 15 SQ.FT. | 9 SQ.FT. | 5 SQ.FT. | 3 SQ.FT. |
| 12" | 14 SQ.FT. | 22 SQ.FT. | 12 SQ.FT. | 6 SQ.FT. | 4 SQ.FT. |
| 16" | 25 SQ.FT. | 38 SQ.FT. | 21 SQ.FT. | 11 SQ.FT. | 7 SQ.FT. |
| 18" | 32 SQ.FT. | 48 SQ.FT. | 27 SQ.FT. | 14 SQ.FT. | 8 SQ.FT. |
| 20" | 69 SQ.FT. | 98 SQ.FT. | 53 SQ.FT. | 27 SQ.FT. | 14 SQ.FT. |
| 24" | 98 SQ.FT. | 139 SQ.FT. | 75 SQ.FT. | 39 SQ.FT. | 20 SQ.FT. |



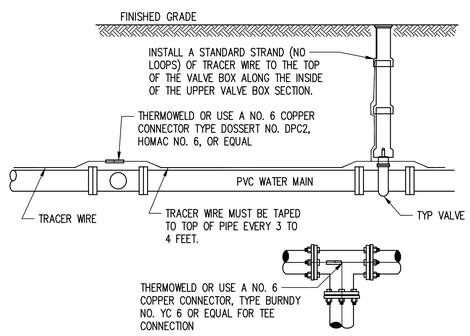

**NOTES:**

1. BEARING AREA TABLE BASED ON 200 PSI PRESSURE AND 2000 PSF SOIL BEARING. IF PRESSURE IS GREATER OR SOIL BEARING IS LESS, THE THRUST BLOCK SIZE SHALL BE INCREASED.
2. THIS TABLE REPRESENTS THE "MINIMUM" CONSTRUCTION STANDARDS. THE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING THE APPROPRIATE SIZE OF ALL THRUST BLOCKS BASED ON EXISTING AND LOCAL CONDITIONS.

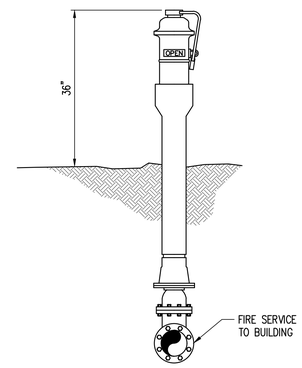
## HORIZONTAL THRUST BLOCKS (WATER MAINS)
NTS — 4 / C401



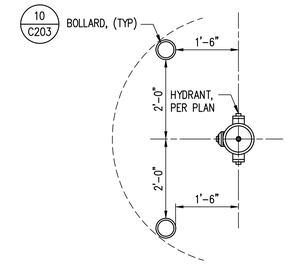

## TYPICAL UTILITY TRENCH DETAIL
NTS — 5 / C401



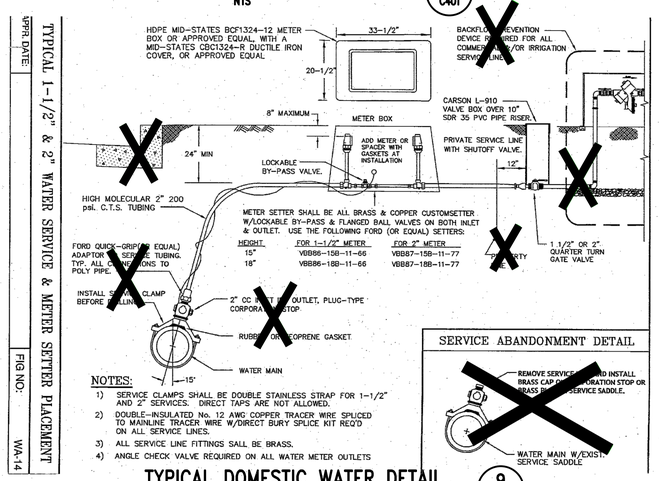

## COPPER TRACER WIRE ON PVC PIPE
NTS — 6 / C401




## POST INDICATOR VALVE (PIV) DETAIL
NTS — 7 / C401



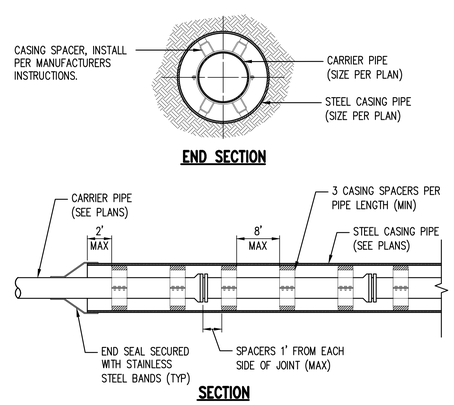

## FIRE HYDRANT BOLLARD DETAIL
NTS — 8 / C401




## TYPICAL DOMESTIC WATER DETAIL
NTS — 9 / C401

**NOTES:**

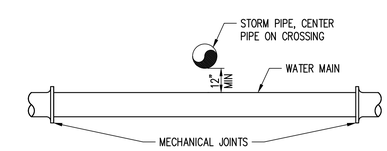
1. CONTRACTOR SHALL PROVIDE A METER THAT WILL FIT WITHIN THE SPECIFIC FORD METER SETTER REQUIRED ON THIS STANDARD PLAN.
2. THE METER SHALL HAVE A DIGITAL METER HEAD COMPATIBLE WITH BACNET DDC SYSTEMS AND SHALL READ IN GALLONS.
3. CONTRACTOR SHALL PROVIDE A WATERTIGHT WIRE ENTRY IN METER BOX FOR A 3/4" CONDUIT. WIRE ENTRY SHALL BE NEAR THE METER. SEE MECHANICAL PLANS AND SPECS FOR CONDUIT ROUTING.




**NOTES:**

1. CARRIER PIPE SHALL BE INSTALED IN CASING WITH CASING SPACERS STRAPPED TO CARRIER PIPE.
2. CARRIER PIPE END BELLS SHALL NOT REST ON STEEL CASING PIPE.

## TYPICAL CASING PIPE DETAIL
NTS — 10 / C401




**NOTE:**

1. STORM DRAIN PIPE SHALL BE CENTERED BETWEEN WATER MAIN MECHANICAL JOINTS.

## PIPE CROSSING DETAIL
NTS — 11 / C401

TYPICAL 1-1/2" & 2" WATER SERVICE & METER SETTER PLACEMENT
APPR. DATE:
FIG NO: WA-14


a|r|c ARCHITECTS
119 S MAIN ST
SUITE 200
SEATTLE, WA
98104-2579
206 322 3322

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com


LONG DAN EBERHARDT — STATE OF WASHINGTON — 31745 — REGISTERED PROFESSIONAL ENGINEER — 04/09/2021

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SHEET:
**C403**


Apr 09, 2021 – 5:01pm X:\115000-115400\115318 (Chehalis Elder Center)\CADD\Design\CEC-500-D1.dwg
Xref Filename: \ X:-CEC-TB \ Eberhardt\ Emerald:

# STRUCTURAL NOTES

## DESIGN LOADS

ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION, AS AMENDED BY THE STATE OF WASHINGTON.

**LIVE LOADS**
IN ADDITION TO THE DEAD LOADS, THE FOLLOWING FLOOR LIVE LOADS WERE USED FOR DESIGN. LIVE LOAD REDUCTION IS PER IBC SECTION 1607.10.

| | | REDUCIBLE | UNREDUCIBLE |
|---|---|---|---|
| TYPICAL, UNO | 100 PSF | X | |
| FITNESS | 100 PSF | X | |
| LIGHT STORAGE | 125 PSF | | X |
| ASSEMBLY AREA | 100 PSF | | X |
| MECHANICAL | 150 PSF | | X |

REFER TO TABLE 1607.1 IN THE IBC FOR RELEVANT CONCENTRATED LIVE LOADS.
ASSEMBLY AREA INCLUDE LOBBY DINING, AMENITY AND CLASSROOM AREAS WITHOUT FIXED SEATING.

**ROOF SNOW LOAD**
THE ROOF HAS BEEN DESIGNED FOR A UNIFORM SNOW LOAD OF 25 PSF PER WABO/SEAW WHITE PAPER 8-2010 TO ACCOUNT FOR SNOW DRIFT IN LOW-LYING AREAS AND RAIN ON SNOW EFFECTS. LOCALIZED IMPACTS FOR SNOW DRIFTING ARE CONSIDERED SEPARATELY USING CODE REQUIREMENTS AS FOLLOWS: THE ROOF SNOW DRIFT LOAD IS DETERMINED USING CHAPTER 7 OF ASCE 7 IN ACCORDANCE WITH IBC SECTION 1608 AND WITH THE FOLLOWING FACTORS:

MINIMUM DESIGN LOAD 25 PSF WITHOUT DRIFT — SNOW DRIFT
Pg = 15 PSF  Ce = 1.0  Pd = 34.5 PSF
Is = 1.0  Ct = 1.0
Pf = 10.5 PSF

**SEISMIC LOADS**
THE SEISMIC FORCE-RESISTING SYSTEM (SFRS) USED TO RESIST EARTHQUAKE AND WIND LOADS IS COMPRISED OF WOOD-FRAMED SHEAR WALLS. EARTHQUAKE DESIGN IS BASED ON THE EQUIVALENT LATERAL FORCE PROCEDURE IN ASCE 7 SECTION 12.8 WITH THE FOLLOWING FACTORS:

SITE CLASS C
RISK CATEGORY II
SEISMIC DESIGN CATEGORY D

| | | | |
|---|---|---|---|
| Ss = | 1.261 g | hn = | 19 FT |
| S1 = | 0.556 g | T = | 0.18 SECONDS |
| Sds= | 0.841 g | TL = | 6 SECONDS |
| Sd1= | 0.482 g | Ie = | 1.0 |
| R = | 6.5 | Cs = | 0.13 |
| V = | BASE SHEAR = 74 KIPS | | |

THE SEISMIC FORCE-RESISTING SYSTEM IS COMPRISED OF WOOD-FRAMED SHEAR WALLS.

**WIND LOADS**
WIND LOAD IS DETERMINED USING CHAPTERS 26-31 OF ASCE 7 IN ACCORDANCE WITH IBC SECTION 1609 WITH THE FOLLOWING FACTORS:

| | | | |
|---|---|---|---|
| RISK CATEGORY II | Kzt | = | 1.0 |
| EXPOSURE CATEGORY B | Gcpi | = | ±0.18 |
| Vult= 110 MPH | Vasd | = | 85 MPH |

DESIGN WIND PRESSURES FOR DETERMINING FORCES ON COMPONENTS AND CLADDING SHALL BE DETERMINED USING CHAPTER 30 OF ASCE 7 IN ACCORDANCE WITH IBC SECTION 1609 BY THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN OF SUCH ELEMENTS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

**STORY DRIFTS**
THE MAXIMUM LATERAL DISPLACEMENTS WITH RESPECT TO THE LEVEL BELOW (STORY DRIFTS) ARE AS FOLLOWS:

SEISMIC:
INELASTIC STORY DRIFT = 1.0% OF STORY HEIGHT
ELASTIC STORY DRIFT = INELASTIC STORY DRIFT DIVIDED BY Cd/Ie, WHERE Cd/Ie = 4.0

WIND:
STORY DRIFT = 1.0% OF STORY HEIGHT

**SOIL LOADS**
ALLOWABLE SOIL-BEARING PRESSURE 3,000 PSF DL + LL
4,000 PSF DL + LL + SEISMIC/WIND

## GENERAL NOTES

**SUBMITTALS**
SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO ANY FABRICATION OR CONSTRUCTION FOR ALL STRUCTURAL ITEMS, INCLUDING THE FOLLOWING:

CONCRETE REINFORCEMENT
EMBEDDED STEEL ITEMS
STRUCTURAL STEEL
GLUED-LAMINATED MEMBERS

IF THE SHOP DRAWINGS DIFFER FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN.

**DEFERRED SUBMITTALS**
PER IBC SECTION 107.3.4.1, DRAWINGS AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS SHALL BEAR THE SEAL AND SIGNATURE OF THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN AND SHALL BE SUBMITTED TO THE ARCHITECT AND THE BUILDING DEPARTMENT FOR REVIEW PRIOR TO FABRICATION. DEFERRED SUBMITTALS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

EXTERIOR CLADDING SYSTEMS
EQUIPMENT ANCHORAGE
SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS
FALL PROTECTION SYSTEM

**NONSTRUCTURAL COMPONENTS**
DESIGN, DETAILING AND ANCHORAGE OF ALL NONSTRUCTURAL COMPONENTS SHALL BE IN ACCORDANCE WITH IBC SECTION 1613, ASCE 7 CHAPTER 13, AND THE PROJECT SPECIFICATIONS. NONSTRUCTURAL COMPONENTS DESIGNED BY OTHERS SHALL NOT INDUCE TORSIONAL LOADING INTO SUPPORTING STEEL STRUCTURAL MEMBERS WITHOUT ADDITIONAL BRACING OF THOSE MEMBERS TO ELIMINATE TORSIONAL FORCES. TORSIONAL BRACING SHALL BE DESIGNED BY THE NONSTRUCTURAL COMPONENT DESIGNER AND APPROVED BY THE ENGINEER.

**CLADDING**
CLADDING DESIGNED BY OTHERS SHALL BE SUPPORTED AT EACH STORY TO BE CONSISTENT WITH THE DESIGN OF THE BUILDING STRUCTURE. CLADDING DESIGNED BY OTHERS SHALL NOT INDUCE TORSIONAL LOADING INTO SUPPORTING STEEL STRUCTURAL MEMBERS WITHOUT ADDITIONAL BRACING OF THOSE MEMBERS TO ELIMINATE TORSIONAL FORCES, UNLESS OTHERWISE APPROVED BY THE ARCHITECT. TORSIONAL BRACING SHALL BE DESIGNED BY THE CLADDING DESIGNER AND APPROVED BY THE ENGINEER.

**INSPECTION**
SPECIAL INSPECTION PER IBC CHAPTER 17 SHALL BE PERFORMED BY AN APPROVED TESTING AGENCY AS INDICATED IN THE STATEMENT OF SPECIAL INSPECTIONS AND TESTING. ALL PREPARED SOIL-BEARING SURFACES SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL. SOILS COMPACTION SHALL BE SUPERVISED BY AN APPROVED TESTING AGENCY OR GEOTECHNICAL ENGINEER.

**SPECIAL CONDITIONS**
CONTRACTOR SHALL VERIFY ALL LEVELS, DIMENSIONS, AND EXISTING CONDITIONS IN THE FIELD BEFORE PROCEEDING. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR FIELD CHANGES PRIOR TO INSTALLATION OR FABRICATION. IN CASE OF DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE DRAWINGS, THE CONTRACTOR SHALL OBTAIN DIRECTION FROM THE ARCHITECT BEFORE PROCEEDING. DIMENSIONS NOTED AS PLUS OR MINUS (±) INDICATE UNVERIFIED DIMENSIONS AND ARE APPROXIMATE. NOTIFY ARCHITECT IMMEDIATELY OF CONFLICTS OR EXCESSIVE VARIATIONS FROM INDICATED DIMENSIONS. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS--DO NOT SCALE DRAWINGS. DIMENSIONS OF EXISTING CONDITIONS MAY BE BASED ON RECORD DRAWINGS AND ARE TO BE FIELD-VERIFIED BY THE CONTRACTOR.

CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING ANY DEMOLITION. CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS, EXISTING CONSTRUCTION AND SOIL EXCAVATIONS, AS REQUIRED, AND IN A MANNER SUITABLE TO THE WORK SEQUENCE. TEMPORARY SHORING AND BRACING SHALL NOT BE REMOVED UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE DRAWINGS AND MATERIALS HAVE ACHIEVED DESIGN STRENGTH. NO REINFORCING BARS IN EXISTING CONSTRUCTION SHALL BE CUT UNLESS DIRECTED TO BY THE ARCHITECT OR AS SHOWN ON THE DRAWINGS.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK.

**SOILS**
SEE THE GEOTECHNICAL REPORT BY PACIFIC TESTING & INSPECTION, DATED APRIL 9, 2021, FOR MORE COMPLETE INFORMATION. EARTHWORK MATERIAL, BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. BACKFILL BEHIND WALLS SHALL NOT BE PLACED BEFORE THE WALL IS PROPERLY SUPPORTED BY THE FLOOR SLAB OR TEMPORARY BRACING. ALL TOPSOIL ORGANICS AND LOOSE SURFACE SOIL SHALL BE REMOVED FROM BENEATH FILL SUPPORTING CONCRETE SLABS OR PAVING.

**MEMBER SPACING**
ALL FRAMING MEMBERS SHALL BE EQUALLY SPACED BETWEEN GRID LINES, COLUMNS, AND DIMENSIONED FRAMING UNLESS NOTED OTHERWISE.

## CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF IBC CHAPTER 19.

**CONCRETE MIXTURES**
CONCRETE MIXTURES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

**CONCRETE MIXTURES**

| f'c (PSI) | TEST AGE (DAYS) | EXPOSURE CLASS | | | | USE | W/C RATIO | MIX NOTES |
|---|---|---|---|---|---|---|---|---|
| 4,000 | 28 | FO | SO | WO | CO | SLAB-ON-GRADE | 0.50 | 1, 2, 3 |
| 4,000 | 28 | FO | SO | WO | CO | FOUNDATIONS, STEM WALLS | 0.45 | 3 |

**MIX NOTES**:
1. MIX SHALL HAVE A TARGET SLUMP OF 6".
2. ALL FLATWORK SHALL HAVE THE FOLLOWING SHRINKAGE LIMITS, MEASURED 28 DAYS FROM COMPLETION OF CURING: 0.035 PERCENT OR A MAXIMUM ALLOWABLE WATER CONTENT OF 255 LBS/CY.
3. ALL CONCRETE EXPOSED TO WEATHER INCLUDING EXTERIOR COLUMN FOOTINGS/PLINTHS AND TRASH ENCLOSURE SHALL BE AIR ENTRAINED. AIR-ENTRAINING AGENTS SHALL CONFORM TO ASTM C 260. THE AMOUNT OF ENTRAINED AIR SHALL BE 5% WITH A FIELD TOLERANCE OF ±1.5 PERCENT BY VOLUME. THE AMOUNT OF ENTRAINED AIR SHALL BE MEASURED IN THE FIELD AT THE DISCHARGE FROM THE TRUCK.

CONCRETE MIXTURES SHALL CONFORM TO THE MOST STRINGENT REQUIREMENTS FOR EXPOSURE CLASSES SPECIFIED IN THE TABLE ABOVE AND ACI 318 TABLE 19.3.2.1.

WATER-REDUCING ADMIXTURES MAY BE INCORPORATED IN CONCRETE MIX DESIGNS, BUT SHALL CONFORM TO ASTM C 494, AND BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CaCl2 OR OTHER WATER-SOLUBLE CHLORIDE ADMIXTURES SHALL NOT BE USED.

WATER/CEMENTITIOUS MATERIALS RATIO SHALL BE MEASURED BY WEIGHT AND SHALL BE BASED ON THE TOTAL CEMENTITIOUS MATERIAL. WATER/CEMENTITIOUS MATERIALS RATIO AND WATER CONTENT SHALL BE DETERMINED BY THE SUPPLIER BASED ON STRENGTH REQUIREMENTS AND SHALL NOT EXCEED THE MAXIMUM WATER/CEMENTITIOUS MATERIAL RATIO AND/OR WATER CONTENT IF SHOWN ABOVE OR IN ACI 318 TABLE 19.3.2.1 FOR THE EXPOSURE CLASSES LISTED.

FIELD-MEASURED SLUMP SHALL CONFORM TO THE SUBMITTED CONCRETE MIX DESIGN. TOLERANCE OF SLUMP SHALL CONFORM TO ASTM C 94.

THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR APPROVAL 2 WEEKS PRIOR TO PLACING ANY CONCRETE. THE MIX DESIGN SHALL BE IN CONFORMANCE WITH ACI 318, CHAPTER 19. THE SUBMITTAL SHALL INDICATE WHERE EACH CONCRETE MIX IS TO BE USED ON THE PROJECT, AS WELL AS THE MAXIMUM AGGREGATE SIZE OF EACH MIX. MAXIMUM AGGREGATE SIZE SHALL CONFORM TO THE PROJECT SPECIFICATIONS.

**CURING**
IF THE AIR TEMPERATURE WILL EXCEED 75 DEGREES F WITHIN 48 HOURS OF PLACING CONCRETE, A MOIST CURE SHALL BE APPLIED TO THE CONCRETE FOR A PERIOD OF 36 HOURS AFTER FINISHING CONCRETE SURFACES. REFER TO THE PROJECT SPECIFICATIONS FOR CURING REQUIREMENTS.

**REINFORCING STEEL**
DEFORMED BARS — ASTM A 615, GRADE 60
ADHESIVE REINFORCING DOWELS — ASTM A 615, GRADE 60; ADHESIVE AS REQUIRED PER POST-INSTALLED ANCHORS

REINFORCING SHALL BE SUPPORTED AS SPECIFIED BY THE PROJECT SPECIFICATIONS AND THE CRSI MANUAL OF STANDARD PRACTICE. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACI STANDARD OF PRACTICE AS OUTLINED IN ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."

LAP ALL REINFORCING BARS AS NOTED ON THE DRAWINGS. WHERE SPLICE LENGTH IS NOT SHOWN, USE TYPE Lb (Lbt FOR TOP BARS) SPLICE PER DEVELOPMENT AND SPLICE LENGTH SCHEDULE.

REINFORCING STEEL SHALL HAVE PROTECTION AS FOLLOWS, UNLESS NOTED OTHERWISE:

| USE | | COVER | |
|---|---|---|---|
| STRUCTURAL SLAB-AT-GRADE BOTTOM BARS | | 2" | |
| FOOTING BOTTOM BARS | | 3" | (CAST AGAINST EARTH) |
| | TOP BARS | 1 1/2" | |
| | | 2" | (#6 AND LARGER WHERE EXPOSED TO EARTH OR WEATHER) |
| | SIDE BARS | 2" | |

WELDING OF REINFORCING, WHERE APPROVED BY THE ARCHITECT, SHALL BE PERFORMED USING LOW HYDROGEN ELECTRODES AND PREHEATED IN ACCORDANCE WITH AWS D1.4, REINFORCING STEEL WELDING CODE. WELDERS AND WELDING PROCEDURES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS D1.4. MATERIALS SHALL CONFORM TO THE FOLLOWING:

REINFORCING BARS TO BE WELDED — ASTM A 706, GRADE 60, LOW ALLOY
WELDING ELECTRODES — E80XX

**NONSHRINK GROUT**
BASE PLATE GROUT SHALL BE NONSHRINK TYPE WITH MINIMUM f'c = 8,000 PSI. ALL OTHER NONSHRINK GROUT SHALL HAVE MINIMUM f'c = 5,000 PSI.

## STRUCTURAL STEEL

**REFERENCE SPECIFICATIONS**

| | |
|---|---|
| STRUCTURAL STEEL | AISC 360 - SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS |
| HIGH STRENGTH BOLTS | RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS |
| WELDING | AWS D1.1, TYPICAL |
| WELDER CERTIFICATION | WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO) |

**STEEL MATERIALS**

| | |
|---|---|
| WIDE FLANGE SHAPES (W AND WT) | ASTM A 992 |
| PLATES (PL), BARS, ANGLES (L), CHANNELS (C AND MC) | ASTM A 36, UNLESS NOTED OTHERWISE |
| STRUCTURAL TUBES (HSS) | ASTM A 500, GRADE C |
| STEEL PIPE | ASTM A 53, GRADE B |
| STRUCTURAL BOLTS | ASTM A 325 |
| ANCHOR RODS | ASTM F 1554, GRADE 36 UNLESS NOTED OTHERWISE |
| THREADED RODS | ASTM A 36 |
| WELDING ELECTRODES | 70 KSI, LOW HYDROGEN, TYPICAL |

STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO THE REQUIREMENTS OF IBC CHAPTER 22. ALL MEMBERS ARE TO BE ERECTED WITH NATURAL MILL CAMBER OR INDUCED CAMBER UP, UNLESS OTHERWISE NOTED ON THE PLANS. SUBSTITUTION OF MEMBER SIZES OR STEEL GRADE WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL BY THE ARCHITECT. A MINIMUM OF TWO BOLTS IS REQUIRED FOR ALL BEAM CONNECTIONS. ALTERNATIVE CONNECTIONS TO THOSE SHOWN ON THESE DRAWINGS WILL REQUIRE PRIOR APPROVAL BY THE ARCHITECT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDS AND JOINT PREPARATIONS THAT INCLUDE, BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES AND OTHER AIDS, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, COPES, SURFACE ROUGHNESS VALUES, AND UNEQUAL PARTS.

**GALVANIZING**
STRUCTURAL STEEL AND CONNECTIONS, INCLUDING PLATES AND OTHER STEEL ITEMS EMBEDDED IN CONCRETE, WHICH ARE EXPOSED TO WEATHER AND NOT TO BE PAINTED SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN COMPLIANCE WITH ASTM A 123. ALL FIELD WELDS ON GALVANIZED MATERIAL SHALL BE COATED WITH BRUSH APPLIED ZINC-RICH PAINT COMPLYING WITH THE SPECIFICATIONS.

**WELDING**
ALL WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS, AND SHALL BE PERFORMED BY WABO-CERTIFIED WELDERS. ONLY WELDS THAT ARE PREQUALIFIED, AS DEFINED BY AWS, OR QUALIFIED BY TESTING SHALL BE USED. SHOP DRAWINGS SHALL SHOW ALL WELDING WITH AWS A2.4 SYMBOLS. WELDS SHOWN ON THE DRAWINGS ARE MINIMUM SIZES. INCREASE WELD SIZE TO AWS MINIMUM SIZES BASED ON THICKNESS. MINIMUM WELD SIZE SHALL BE 3/16-INCH, UNLESS NOTED OTHERWISE. THE WELDS SHOWN ARE FOR THE FINAL CONNECTIONS. FIELD WELD SYMBOLS ARE SHOWN WHERE FIELD WELDS ARE REQUIRED BY THE STRUCTURAL DESIGN. WHERE FIELD WELD IS NOT INDICATED, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF A WELD SHOULD BE SHOP OR FIELD-WELDED IN ORDER TO FACILITATE THE STRUCTURAL STEEL ERECTION.

## ANCHORS

**POST-INSTALLED ANCHORS**
PROVIDE POST-INSTALLED ANCHORS PER THE FOLLOWING SCHEDULE UNLESS NOTED OTHERWISE:

**ANCHORS IN CONCRETE**

| ANCHOR TYPE | APPROVED ANCHOR(S) | EVALUATION REPORT |
|---|---|---|
| ADHESIVE | HILTI HIT-RE 500-SD | ICC-ES ESR 2252 |
| MECHANICAL | HILTI KWIK BOLT TZ | ICC-ES ESR 1917 |

USE OF ALTERNATE PRODUCTS, OR OF POST-INSTALLED ANCHORS AT LOCATIONS NOT SHOWN IN THESE DRAWINGS, IS SUBJECT TO THE APPROVAL OF THE ARCHITECT. SUBMIT PROPOSED ANCHORS TO THE ARCHITECT WITH AN ICC-ES OR IAPMO UES REPORT VALID FOR THE 2015 IBC. SUBMITTED ICC-ES AND IAPMO UES REPORTS SHALL DEMONSTRATE THAT THE ANCHORS ARE SUITABLE FOR USE IN CRACKED CONCRETE OR UNCRACKED, FULLY GROUTED REINFORCED CONCRETE MASONRY UNITS. WHERE ANCHORS RESIST SEISMIC LOADS, SUBMITTED ICC-ES AND IAPMO UES REPORTS SHALL DEMONSTRATE THAT THE ANCHORS ARE SUITABLE FOR THE RESISTANCE OF SEISMIC LOADS.

ADHESIVES SHALL NOT BE INSTALLED PRIOR TO THE CONCRETE REACHING AN AGE OF 21 DAYS AS REQUIRED BY ACI 318.

## WOOD

**IDENTIFICATION**
ALL SAWN LUMBER AND PRE-MANUFACTURED WOOD PRODUCTS SHALL BE IDENTIFIED BY THE GRADE MARK OR A CERTIFICATE OF INSPECTION ISSUED BY THE CERTIFYING AGENCY.

**SAWN LUMBER**
SAWN LUMBER SHALL CONFORM TO "GRADING AND DRESSING RULES," WEST COAST LUMBER INSPECTION BUREAU (WCLIB), LATEST EDITION. LUMBER SHALL BE KILN DRIED AND BE THE SPECIES AND GRADE NOTED BELOW. DESIGN STRESSES ARE BASED ON NDS. ALL LUMBER IN CONTACT WITH CMU, CONCRETE, OR GROUND SURFACES SHALL BE PRESERVATIVE TREATED.

| USE | GRADE | Fb (PSI) (SINGLE USE) |
|---|---|---|
| WALL STUDS | | |
| 2" TO 4" THICK, 2" AND WIDER | DOUGLAS FIR-LARCH STUD GRADE | 700 |
| PLANKING & PLATES | | |
| 2" TO 4" THICK, 2" AND WIDER | DOUGLAS FIR-LARCH NO. 2 | 900 |
| JOISTS & RAFTERS | | |
| 2" TO 4" THICK, 2" AND WIDER | DOUGLAS FIR-LARCH NO. 2 | 900 |
| BEAMS/STRINGERS | | |
| 5"x5" AND LARGER | DOUGLAS FIR-LARCH NO. 1 | 1,350 |
| POSTS | | |
| 5"x5" AND LARGER | DOUGLAS FIR-LARCH NO. 1 | 1,200 |
| 4"X4" | DOUGLAS FIR-LARCH NO. 1 | 1,000 |

**TIMBER CONNECTIONS**
CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THE CATALOGUE NO. C-C-2015, OR APPROVED EQUAL. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY THE MANUFACTURER. CONNECTORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE ONE-HALF OF THE NAILS OR BOLTS IN EACH MEMBER. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A 307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. ALL SHIMS SHALL BE SEASONED AND DRIED AND BE THE SAME GRADE (MIN) AS THE MEMBERS CONNECTED. ALL JOISTS ARE TO BE CONNECTED TO FLUSH BEAMS WITH LU SERIES JOIST HANGERS UNLESS NOTED OTHERWISE. ALL DOUBLE AND TRIPLE-JOIST BEAMS ARE TO BE CONNECTED TO FLUSH BEAMS WITH U SERIES HANGERS, UNLESS NOTED OTHERWISE.

ALL FRAMING NAILS SHALL BE COMMON NAILS AND SHALL BE OF THE SIZE AND NUMBER INDICATED ON THE DRAWINGS. NAILING NOT SHOWN SHALL BE AS INDICATED IN IBC TABLE 2304.10.1.

POWER-DRIVEN NAILS MAY BE SUBSTITUTED FOR COMMON NAILS AT SPACING AS FOLLOWS:

**ALTERNATE NAILING SCHEDULE**

| FASTENER TYPE | DIAMETER (INCHES) | LENGTH(INCHES) | SPACING | | | |
|---|---|---|---|---|---|---|
| 8d COMMON WIRE | 0.131 | 2 1/2" | 12" | 6" | 4" | 3" |
| 16d POWER-DRIVEN NAIL | 0.131 | 3 1/4" | 12" | 6" | 4" | 3" |
| 10d COMMON WIRE | 0.148 | 3" | 12" | 6" | 4" | 3" |
| 16d POWER-DRIVEN NAIL | 0.131 | 3 1/4" | 10" | 4" | 3" | 2" |
| 16d COMMON WIRE | 0.162 | 3 1/2" | 12" | 6" | 4" | 3" |
| 16d POWER-DRIVEN NAIL | 0.131 | 3 1/4" | 9" | 4" | 3" | 2" |

ALL FRAMING ACCESSORIES AND FASTENERS IN CONTACT WITH PRESERVATIVE-TREATED LUMBER SHALL BE GALVANIZED WITH A MINIMUM COATING OF 1.85 OUNCES/SQUARE FOOT.

**RATED SHEATHING**
WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF U.S. DEPARTMENT OF COMMERCE (DOC) PS-1 "CONSTRUCTION AND INDUSTRIAL PLYWOOD" OR DOC PS-2 "PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL-USE PANELS". EACH PANEL SHALL BEAR THE APA GRADE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION. SHEATHING SHALL BE AS FOLLOWS:

ROOF SHEATHING
15/32" 32/16 C-D INT APA WITH EXTERIOR GLUE (CDX)

SHEAR WALL SHEATHING
15/32" 32/16 APA, EXPOSURE 1

ALL ROOF SHEATHING SHALL BE INSTALLED FACE GRAIN PERPENDICULAR TO SUPPORTS OR AS INDICATED ON THE DRAWINGS. ROOF SHEATHING SHALL BE UNBLOCKED OR AS INDICATED ON DRAWINGS. INSTALL WITH 1/8" GAP BETWEEN PANELS. SHEAR WALL SHEATHING SHALL BE BLOCKED AT ALL PANEL EDGES AS INDICATED IN THE SHEAR WALL SCHEDULE, UNLESS NOTED OTHERWISE. SHEAR WALL NAILS SHALL BE DRIVEN FLUSH, BUT SHALL NOT FRACTURE THE SURFACE OF SHEATHING. NAILING NOT SHOWN SHALL BE AS INDICATED IN IBC TABLE 2304.10.1. ALL NAILS SHALL BE COMMON.

**GLUED LAMINATED MEMBERS**
GLUED LAMINATED MEMBERS SHALL BE MANUFACTURED AND IDENTIFIED IN ACCORDANCE WITH AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC) A190.1 "STRUCTURAL GLUE LAMINATED TIMBER". EACH MEMBER SHALL BEAR AN AITC IDENTIFICATION MARK AND BE ACCOMPANIED BY AN AITC CERTIFICATE OF CONFORMANCE. ONE COAT OF END SEALER SHALL BE APPLIED IMMEDIATELY AFTER TRIMMING IN EITHER SHOP OR FIELD. MEMBERS SHALL BE VISUALLY GRADED WESTERN SPECIES INDUSTRIAL GRADE WITH STRENGTH INDICATED AS FOLLOWS:

| | COMBINATION SYMBOL | SPECIES | SIZES | USES |
|---|---|---|---|---|
| BEAMS | 24F-V4 | DF/DF | >16" DEPTH | SIMPLE SPAN |
| | 24F-V8 | DF/DF | >16" DEPTH | CONTINUOUS OR CANTILEVER SPAN |
| COLUMNS | 2 - L2 | DF | ALL | ALL |

**ENGINEERED COMPOSITE LUMBER**
ENGINEERED COMPOSITE WOOD PRODUCTS SUCH AS PARALLEL STRAND LUMBER (PSL), LAMINATED STRAND LUMBER (LSL) AND LAMINATED VENEER LUMBER (LVL) SHALL BE OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS, MANUFACTURED BY TRUS JOIST OR AN APPROVED EQUAL. MEMBERS SHALL HAVE THE FOLLOWING MINIMUM DESIGN PROPERTIES:

| COMPOSITE LUMBER TYPE | MODULUS OF ELASTICITY (PSI) | ALLOWABLE FLEXURAL STRESS (PSI) |
|---|---|---|
| PSL (COL) | 1,800,000 | 2,400 |
| PSL (BEAM) | 2,000,000 | 2,900 |
| LVL | 1,900,000 | 2,600 |
| LSL | 1,550,000 | 2,325 |

FLEXURAL STRESSES NOTED ABOVE ARE FOR A 12-INCH MEMBER. DEEPER MEMBERS SHALL BE DESIGNED FOR REDUCED STRESSES PER THE MANUFACTURER'S REQUIREMENTS.

**3" TONGUE AND GROOVE LUMBER DECKING**
DECKING, FASTENING, AND INSTALLATION, SHALL BE PER IBC 2304.9. LAY UP SHALL BE COMBINATION SIMPLE AND TWO SPAN CONTINUOUS PATTERN. DECKING SHALL NOT EXCEED 19% MOISTURE CONTENT.

| TYPE | GRADE | $F_b$ (PSI) |
|---|---|---|
| 3x6 SOLID TIMBER | DOUGLAS FIR-LARCH COMMERCIAL | 1,450 |

**ROUND TIMBER POSTS**
ALL ROUND POSTS SHALL BE PEELED WESTERN CEDAR. ALL POSTS SHALL HAVE A MINIMUM DIAMETER AS INDICATED ON PLAN. POSTS SHALL HAVE A MINIMUM ALLOWABLE COMPRESSIVE STRESS OF 875 PSI PARALLEL TO GRAIN.

**PRESERVATIVE TREATMENT (PT)**
WOOD MATERIALS ARE REQUIRED TO BE "TREATED WOOD" IN ACCORDANCE WITH IBC 2304.11. "DECAY AND TERMITE PROTECTION" SHALL CONFORM TO THE APPROPRIATE STANDARDS OF THE AMERICAN WOOD-PRESERVERS ASSOCIATION (AWPA) FOR SAWN LUMBER, GLUED LAMINATED TIMBER, ROUND POLES, WOOD PILES AND MARINE PILES. FOLLOW AMERICAN LUMBER STANDARDS COMMITTEE (ALSC) QUALITY ASSURANCE PROCEDURES. PRODUCTS SHALL BEAR THE APPROPRIATE MARK.

## MASONRY

**CONCRETE MASONRY**
ALL CONCRETE MASONRY UNITS SHALL COMPLY WITH ASTM C 90 WITH AVERAGE NET COMPRESSIVE STRENGTH OF 2000 PSI. ASSEMBLIES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF $f'_m$ = 2000 PSI AT 28 DAYS AFTER GROUTING. CONCRETE MASONRY WALLS SHALL BE REINFORCED AS SHOWN IN THESE DRAWINGS. MASONRY SHALL BE FULLY GROUTED, UNLESS NOTED OTHERWISE.

**MORTAR**
ALL MORTAR SHALL BE TYPE S AND SHALL CONFORM TO IBC SECTION 2103.

**MASONRY GROUT**
GROUT MATERIALS AND PROPORTIONS SHALL CONFORM TO TMS602. MORTAR SAND SHALL BE USED. GROUT SHALL BE PLACED IN LIFTS NOT EXCEEDING 5'-4". GRATER LIFT HEIGHTS MAY BE ACCEPTABLE IF THE CONTRACTOR CAN DEMONSTRATE COMPLIANCE WITH THE GROUTING REQUIREMENTS OF TMS 602 SECTION 3.5D OR THE GROUT DEMONSTRATION PANEL REQUIREMENTS OF TMS 602 SECTION 1.6E. IF A GROUT DEMONSTRATION PANEL IS PROPOSED, THE CONTRACTOR SHALL SUBMIT A TEST PANEL CONFIGURATION AND GROUTING PROCEDURE FOR REVIEW. THE TEST PANEL CONFIGURATION GROUTING PROCEDURE, AND ACCEPTANCE CRITERIA SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

**REINFORCING STEEL**
REINFORCING SHALL CONFORM TO IBC SECTION 2103.4 AND TMS 602. DEFORMED BARS SHALL BE GRADE 60 AND SHALL BE SECURELY PLACED.

**ANCHORED MASONRY VENEER**
CONCRETE MASONRY VENEER UNITS SHALL COMPLY WITH ASTM C 55. VENEER ANCHORS AND FASTENERS SHALL COMPLY WITH TMS 602 SECTION 12.2 ANCHOR TIES SHALL BE SPACED SO AS TO SUPPORT NO MORE THAN 2 SQUARE FEET OF WALL AREA, BUT NOT MORE THAN 32 INCHES ON CENTER HORIZONTALLY, NOR MORE THAN 25 INCHES ON CENTER VERTICALLY.

## DRAWING LIST


| | |
|---|---|
| S0.1 | STRUCTURAL NOTES AND DRAWING LIST |
| S0.2 | STATEMENT OF SPECIAL INSPECTIONS |
| S1.0 | LOAD MAPS |
| S2.1A | FOUNDATION AND FIRST FLOOR PLAN |
| S2.1B | SHEAR WALL PLAN |
| S2.2A | ROOF FRAMING PLAN |
| S2.2B | ROOF NAILING AND REINFORCING PLAN |
| S3.01 | SECTIONS AND ELEVATIONS |
| S3.02 | SECTIONS AND ELEVATIONS |
| S4.01 | TYPICAL CONCRETE DETAILS |
| S4.02 | TYPICAL CONCRETE DETAILS |
| S4.03 | TYPICAL CONCRETE DETAILS |
| S5.01 | TYPICAL WOOD DETAILS |
| S5.11 | WOOD DETAILS |
| S

# STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING

## TABLE 1 - REQUIRED GEOTECHNICAL SPECIAL INSPECTIONS

| SYSTEM OR MATERIAL | INSPECTION: IBC CODE REFERENCE | INSPECTION: CODE OR STANDARD REFERENCE | FREQUENCY (NOTE 6): CONTINUOUS | FREQUENCY (NOTE 6): PERIODIC | REMARKS |
|---|---|---|---|---|---|
| **SOILS** | | | | | |
| VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. | TB 1705.6 1705.6 | GEOTECHNICAL REPORT | - | X | BY THE GEOTECHNICAL ENGINEER |
| VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. | | | - | X | |
| PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS. | | | - | X | |
| VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL. | | | X | - | |
| PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY. | | | - | X | |

## TABLE 2 - REQUIRED STRUCTURAL SPECIAL INSPECTIONS

| SYSTEM OR MATERIAL | INSPECTION: IBC CODE REFERENCE | INSPECTION: CODE OR STANDARD REFERENCE | FREQUENCY (NOTE 6): CONTINUOUS | FREQUENCY (NOTE 6): PERIODIC | REMARKS |
|---|---|---|---|---|---|
| **FABRICATION** | | | | | |
| INSPECTION IN FABRICATION SHOP | 1704.2.5 | - | - | - | WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE AS REQUIRED BY TABLE 2 AND AS REQUIRED ELSEWHERE IN THE STATEMENT OF SPECIAL INSPECTIONS. REFERENCE SECTION 1704.2.5.1 FOR APPROVED FABRICATOR EXCEPTION. |
| **CONCRETE** | | | | | |
| INSPECT REINFORCEMENT, INCLUDING EMBEDMENT'S AND PRESTRESSING TENDONS, AND VERIFY PLACEMENT. | TB 1705.3(1) 1705.3 1908.4 | ACI 318: 20, 25.2-25.3, 26.6.1-26.6.3, 26.8, 26.13.3 | - | X | TOLERANCE AND REINFORCING PLACEMENT PER ACI 318: 26.6 |
| INSPECTION OF REINFORCING STEEL WELDING | TB 1705.3(2) 1705.3.1 | ACI 318: 26.6.4 AWS D1.4: 7 | - | - | EXCEPT AS NOTED OTHERWISE |
| MATERIAL VERIFICATION OF WELD FILLER METALS | 1705.3.1 | | - | X | MANUFACTURER'S CERTIFIED TEST REPORTS |
| VERIFYING USE OF PROPER WELDING PROCEDURE SPECIFICATIONS | | | - | X | COPY OF WELDING PROCEDURE SPECIFICATIONS |
| VERIFYING WELDER QUALIFICATIONS | | | - | X | COPY OF QUALIFICATION CARDS |
| VERIFY WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706. | TB 1705.3 (2.a) | AWS D1.4 ACI 318: 26.6.4 | - | X | CERTIFIED MILL TEST REPORTS |
| INSPECT SINGLE PASS FILLET WELDS, MAXIMUM 5/16" | TB 1705.3 (2.b) | | - | X | - |
| INSPECT ALL OTHER WELDS | TB 1705.3 (2.c) | | X | - | ALL WELDS VISUALLY INSPECTED PER AWS D1.4: 7.5 |
| INSPECT ANCHORS CAST IN CONCRETE | WAC 51-50-1705 | ACI 318 17.8.2 | - | X | ALL ANCHORS SHALL BE VISUALLY INSPECTED |
| INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS: | | | | | |
| ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. | WAC 51-50-1705 | ACI 355.4 ICC/IAPMO EVALUATION REPORT ACI 318: 17.8.2.4, 26.13.3 | X | - | REFER TO ANCHOR CALLOUTS FOR SUSTAINED TENSION (ST) DESIGNATION |
| MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE. | WAC 51-50-1705 | ACI 355.4 ICC/IAPMO EVALUATION REPORT ACI 318: 17.2, 26.13.3 | - | X (NOTE 7) | ALL ANCHORS SHALL BE VISUALLY INSPECTED |
| VERIFY USE OF REQUIRED DESIGN MIX. | TB 1705.3(5) 1705.3 1904 1908.2 1908.3 | ACI 318: 19, 26.4.3-26.4.4, 26.13.3 | - | X | - |
| PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. | TB 1705.3(6) 1908.10 | ASTM C 172 ASTM C 31 ACI 318: 26.4, 26.12 | X | - | - |
| INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES. | TB 1705.3(7) 1705.3 1908.6-8 | ACI 318: 26.5, 26.13.3 | X | - | - |
| VERIFY CURING METHOD AND DURATION OF CURING FOR EACH MEMBER. | - | ACI 318: 26.13.3.3(b) | - | X | - |
| VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. | TB 1705.3(8) 1705.3 1908.9 | ACI 318: 26.5.3-26.5.5, 26.13.3 | - | X | - |
| INSPECT PRESTRESSED CONCRETE FOR APPLICATION OF PRESTRESSING FORCES AND GROUTING OF BONDED PRESTRESSING TENDONS | TB 1705.3(9) 1705.3 | ACI 318: 26.10, 26.13.3 | X | - | - |
| INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. | TB 1705.3(12) 1705.3 | ACI 318: 26.11.1.2(b) | - | X | - |
| **MASONRY - LEVEL B** | | | | | |
| VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE FOR SELF-CONSOLIDATING GROUT. | 1705.4 | TMS 602: TB 4 TMS 602: 1.5 B.1.b.3 | X | - | - |
| VERIFICATION OF f'm PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE. | | TMS 602: TB 4 TMS 602: 1.4 B | - | X | - |
| VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS | | TMS 602: TB 4(1) TMS 602: 1.5 | - | X | - |
| AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: | | | | | |
| PROPORTIONS OF SITE-PREPARED MORTAR | 1705.4 | TMS 602: TB 4(2.a) TMS 602: 2.1, 2.6 A | - | X | - |
| CONSTRUCTION OF MORTAR JOINTS | | TMS 602: TB 4(2.b) TMS 602: 3.3 B | - | X | - |
| LOCATION OF REINFORCEMENT AND CONNECTORS | | TMS 602:TB 4(2.d) TMS 602: 3.4 | - | X | - |
| PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: | | | | | |
| GROUT SPACE | 1705.4 | TMS 602: TB 4(3.a) TMS 602: 3.2 D, 3.2 F | - | X | - |
| GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS | | TMS 602: TB 4(3.b) TMS 602: 2.4, 3.4 TMS 402: 6.1 | - | X | - |
| PLACEMENT OF REINFORCEMENT AND CONNECTORS | | TMS 602: TB 4(3.c) TMS 602: 3.2 E, 3.4 TMS 402: 6.1-6.2 | - | X | - |
| PROPORTIONS OF SITE-PREPARED GROUT | | TMS 602: TB 4(3.d) TMS 602: 2.6 B | - | X | - |
| CONSTRUCTION OF MORTAR JOINTS | | TMS 602: TB 4(3.e) TMS 602: 3.3 B | - | X | - |

| SYSTEM OR MATERIAL | INSPECTION: IBC CODE REFERENCE | INSPECTION: CODE OR STANDARD REFERENCE | FREQUENCY (NOTE 8): OBSERVE | FREQUENCY (NOTE 8): PERFORM | REMARKS |
|---|---|---|---|---|---|
| **MASONRY - LEVEL B (CONT.)** | | | | | |
| VERIFY DURING CONSTRUCTION: | | | | | |
| SIZE AND LOCATION OF STRUCTURAL ELEMENTS | 1705.4 | TMS 602: TB 4(4.a) TMS 602: 3.3 F | - | X | - |
| TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION | | TMS 602: TB 4(4.b) TMS 402: 1.2.1(e), 6.1.4.3, 6.2.1 | - | X | - |
| WELDING OF REINFORCEMENT | | TMS 602: TB 4(4.c) TMS 402: 8.1.6.7.2, 9.3.3.4(c) | X | - | ALL WELDS VISUALLY INSPECTED PER AWS D1.4: 7.5 REFER TO CONCRETE FOR WELDING REQUIREMENTS |
| PREPARATION, CONSTRUCTION, AND PROTECTION DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (ABOVE 90°F) | 1705.4 | TMS 602: TB 4(4.d) TMS 602: 1.8 C, 1.8 D | - | X | - |
| PLACEMENT OF GROUT IS IN COMPLIANCE | 1705.4 | TMS 602: TB 4(4.f) TMS 602: 3.5 | X | - | - |
| OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS | 1705.4 | TMS 602: TB 4(5) TMS 602: 1.4 B | - | X | - |
| **STEEL** | | | | | |
| INSPECTION TASKS PRIOR TO WELDING: | | | | | |
| WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE | 1705.2 | AISC 360: TB N5.4-1 | - | X | - |
| MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE | | | - | X | - |
| MATERIAL IDENTIFICATION (TYPE/GRADE) | | | X | - | - |
| WELDER IDENTIFICATION SYSTEM | | | X | - | - |
| FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY); JOINT PREPARATION, DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION), BACKING TYPE AND FIT (IF APPLICABLE) | | | X | - | - |
| CONFIGURATION AND FINISH OF ACCESS HOLES | | | X | - | - |
| FIT-UP OF FILLET WELDS: DIMENSIONS (ALIGNMENT, GAPS AT ROOT), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION), BACKING TYPE AND FIT (IF APPLICABLE). | | | X | - | - |
| CHECK WELDING EQUIPMENT | | | - | - | FABRICATOR OR ERECTOR SHALL OBSERVE |
| INSPECTION TASKS DURING WELDING: | | | | | |
| USE OF QUALIFIED WELDERS | 1705.2 | AISC 360: TB N5.4-2 | X | - | - |
| CONTROL AND HANDLING OF WELDING CONSUMABLES: PACKAGING, EXPOSURE CONTROL | | | X | - | - |
| NO WELDING OVER CRACKED TACK WELDS | | | X | - | - |
| ENVIRONMENTAL CONDITIONS: WIND SPEED WITHIN LIMITS, PRECIPITATION AND TEMPERATURE | | | X | - | - |
| WPS FOLLOWED: SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.), PROPER POSITION (F, V, H, OH) | | | X | - | - |
| WELDING TECHNIQUES: INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETS QUALITY REQUIREMENTS | | | X | - | - |
| INSPECTION TASKS AFTER WELDING: | | | | | |
| WELDS CLEANED | 1705.2 | AISC 360: TB N5.4-3 | X | - | - |
| SIZE, LENGTH AND LOCATION OF WELDS | | | - | X | - |
| WELDS MEET VISUAL ACCEPTANCE CRITERIA: CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, POROSITY | | | - | X | - |
| ARC STRIKES | | | - | X | - |
| K-AREA | | | - | X | - |
| BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) | | | - | X | - |
| REPAIR ACTIVITIES | | | - | X | - |
| DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER | | | - | X | - |
| INSPECTION TASKS PRIOR TO BOLTING: | | | | | |
| MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS | 1705.2 | AISC 360: TB N5.6-1 | - | X | - |
| FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS | | | X | - | - |
| PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE) | | | X | - | - |
| PROPER BOLTING PROCEDURE FOR JOINT DETAIL | | | X | - | - |
| CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS | | | X | - | - |
| PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED | | | X | - | - |
| PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS | | | X | - | - |
| INSPECTION TASKS DURING BOLTING: | | | | | |
| FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED | 1705.2 | AISC 360: TB N5.6-2 | X | - | - |
| JOINT BROUGHT TO SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION | | | X | - | - |
| FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING | | | X | - | - |
| FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES | | | X | - | - |
| INSPECTION TASKS AFTER BOLTING: | | | | | |
| DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS | 1705.2 | AISC 360: TB N5.6-3 | - | X | - |

## TABLE 2A - REQUIRED STRUCTURAL SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE

| SYSTEM OR MATERIAL | INSPECTION: IBC CODE REFERENCE | INSPECTION: CODE OR STANDARD REFERENCE | FREQUENCY (NOTE 6): CONTINUOUS | FREQUENCY (NOTE 6): PERIODIC | REMARKS |
|---|---|---|---|---|---|
| **GENERAL** | | | | | |
| SEISMIC FORCE-RESISTING SYSTEMS (SFRS) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F | 1704.3.2 1705.12 | - | X | - | REFERENCE GENERAL STRUCTURAL NOTES FOR OUTLINE OF SFRS SYSTEM. REFERENCE TABLE 2A FOR MATERIAL SPECIFIC INSPECTION REQUIREMENTS. |
| **WOOD** | | | | | |
| CONNECTIONS FOR DIAPHRAGM CHORDS, COLLECTORS, BRACING, AND SHEAR WALL ANCHORAGE AND HOLD-DOWNS | | - | - | X | ALL CONNECTIONS VISUALLY INSPECTED |
| FASTENING OF DIAPHRAGM AND SHEAR WALL SHEATHING WITH EDGE NAILING 4 INCHES ON CENTER OR LESS | | - | - | X | ALL FASTENING VISUALLY INSPECTED. NOT REQUIRED WHERE THE FASTENER SPACING IS MORE THAN 4 INCHES ON CENTER |

## TABLE 3 - REQUIRED STRUCTURAL TESTING

| SYSTEM OR MATERIAL | TESTING: IBC CODE REFERENCE | TESTING: CODE OR STANDARD REFERENCE | FREQUENCY: CONTINUOUS | FREQUENCY: PERIODIC | REMARKS |
|---|---|---|---|---|---|
| **GEOTECHNICAL** | | | | | |
| FILL IN-PLACE DENSITY OR PREPARED SUBGRADE DENSITY | 1705.6 | VARIES; MINIMUM PER IBC APPENDIX J107.5 | - | X | BY THE GEOTECHNICAL ENGINEER |
| MATERIAL VERIFICATION | | VARIES; CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS | - | X | BY THE GEOTECHNICAL ENGINEER |
| **CONCRETE** | | | | | |
| COMPOSITE SAMPLES | 1903 1705.3 | ASTM C 172 ACI 318: 26.12 | ONE SAMPLE FOR EA 150 CY NOR LESS THAN 5,000 SQ FT OF SLABS AND WALLS, ONE SET PER DAY MIN | | OBTAIN WHEN FRESH CONCRETE IS PLACED FOR EACH MIX DESIGN USED |
| CONCRETE STRENGTH, UNO | | ASTM C 39 ACI 318: 26.12 | EACH SAMPLE: 1 CYL - 7 DAYS 3 CYL - TEST AGE 1 CYL - HOLD | | (NOTE 9) REFER TO GENERAL NOTES FOR TEST AGE. FOR 6 BY 12-INCH CYLINDERS, 2 CYLINDERS AT TEST AGE IS PERMITTED. CYL = CYLINDER |
| CONCRETE SLUMP | | ASTM C 143 | ONE TEST PER COMPOSITE SAMPLE | | AT POINT OF PLACEMENT |
| CONCRETE AIR CONTENT | | ASTM C 231 | ONE TEST PER COMPOSITE SAMPLE | | MIN ONE PER DAY |
| CONCRETE TEMPERATURE | | ASTM C 1064 | ONE TEST PER COMPOSITE SAMPLE | | ONE TEST PER HOUR WHEN AIR TEMP IS BELOW 40 DEG F OR ABOVE 80 DEG F |
| **MASONRY** | | | | | |
| UNIT STRENGTH METHOD | 2105 1705.4 | ASTM C 62 ASTM C 216 ASTM C 652 ASTM C 476 ASTM C 55 ASTM C 90 TMS 602: 1.4 B.2 | - | | - |
| PRISM TEST METHOD | 2105 1705.4 | ASTM C 1314 TMS 602: 1.4 B.3 | TESTING EVERY 5,000 SQ FT | | - |
| **STEEL** | | | | | |
| RADIOGRAPHIC (RT) MAGNETIC PARTICLE (MT) AND ULTRASONIC (UT) TESTING OF WELDS | AISC 360 5.0 | RT- AWS D1.1: 6.16 MT- AWS D1.1: 6.14.4 UT- AWS D1.1: 6.13 & 6.14.3 | PER DRAWINGS | | ALL CJP WELDS REQUIRE UT TESTING |


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THE CHEHALIS TRIBE

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|---|---|---|
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CONTENTS:

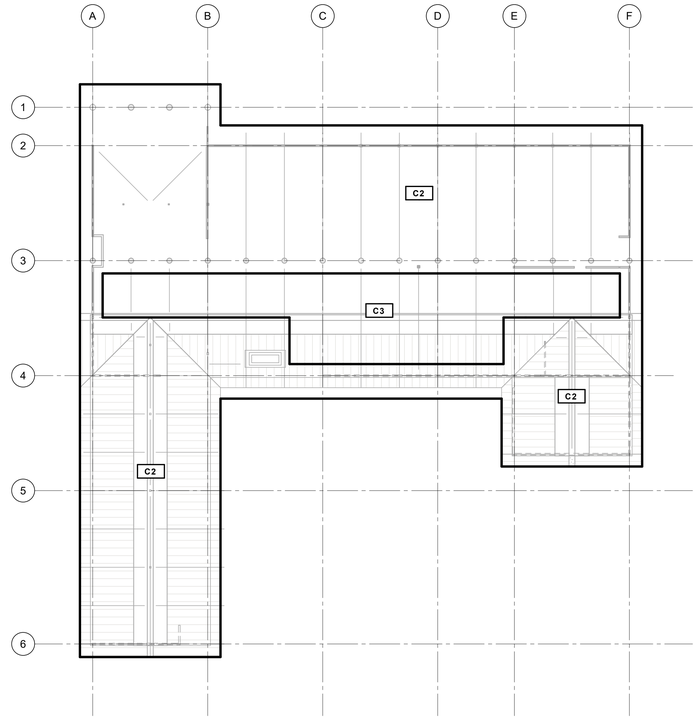
**STATEMENT OF SPECIAL INSPECTIONS**

SCALE: **AS INDICATED**
DRAWN: **DMH**
CHECKED: **AMR**
KPFF PROJECT NO.: 2000416

SHEET:
**S0.2**

1 LEVEL 1 - LOAD MAP

1/16" = 1'-0"




2 ROOF LOAD MAP

NO SCALE

**LIVE LOAD SCHEDULE**

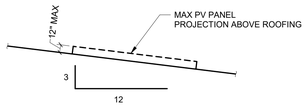
| TYPE MARK | DESCRIPTION | LOAD, PSF (R=REDUCIBLE) | TYPE COMMENTS |
|---|---|---|---|
| A | TYPICAL (UNO) | 100 (R) | - |
| B | ASSEMBLY AREAS | 100 | 3 |
| C | ROOF | 25 | - |
| D | MECHANICAL | 40 | - |
| E | LIGHT STORAGE | 150 | - |
| F | FITNESS | 150 | - |

**SUPERIMPOSED DEAD LOAD SCHEDULE**

| TYPE MARK | DESCRIPTION | LOAD, PSF | TYPE COMMENTS |
|---|---|---|---|
| 1 | TYPICAL | 10 | - |
| 2 | TYPICAL WOOD | 20 | - |
| 3 | PV PANELS | 23 | 5 |

LOAD SCHEDULE NOTES:

1. A1 — INDICATES LIVE LOAD AND SUPERIMPOSED LOAD PER SCHEDULES. LOADING OCCURS WITHIN REGIONS BOUND BY BOLD LINES.
   - SUPERIMPOSED DEAD LOAD
   - LIVE LOAD
2. (R) INDICATES LIVE LOADS ARE REDUCED IN ACCORDANCE WITH BUILDING CODE PROVISIONS.
3. ASSEMBLY AREAS INCLUDE LOBBY, DINING, AMENITY AND CLASSROOM AREAS WITHOUT FIXED SEATING.
4. REFER TO TABLE 1607.1 IN THE IBC FOR RELEVANT CONCENTRATED LIVE LOADS.
5. SDL INCLUDES 5 PSF FOR PV PANELS. PV PANELS SHALL NOT BE BALLASTED. FUTURE PV PANELS SHALL BE INSTALLED PARALLEL TO ROOF SLOPE AND SHALL NOT PROJECT MORE THAN 12" ABOVE TOP OF ROOFING.





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|---|---|---|
| | | |

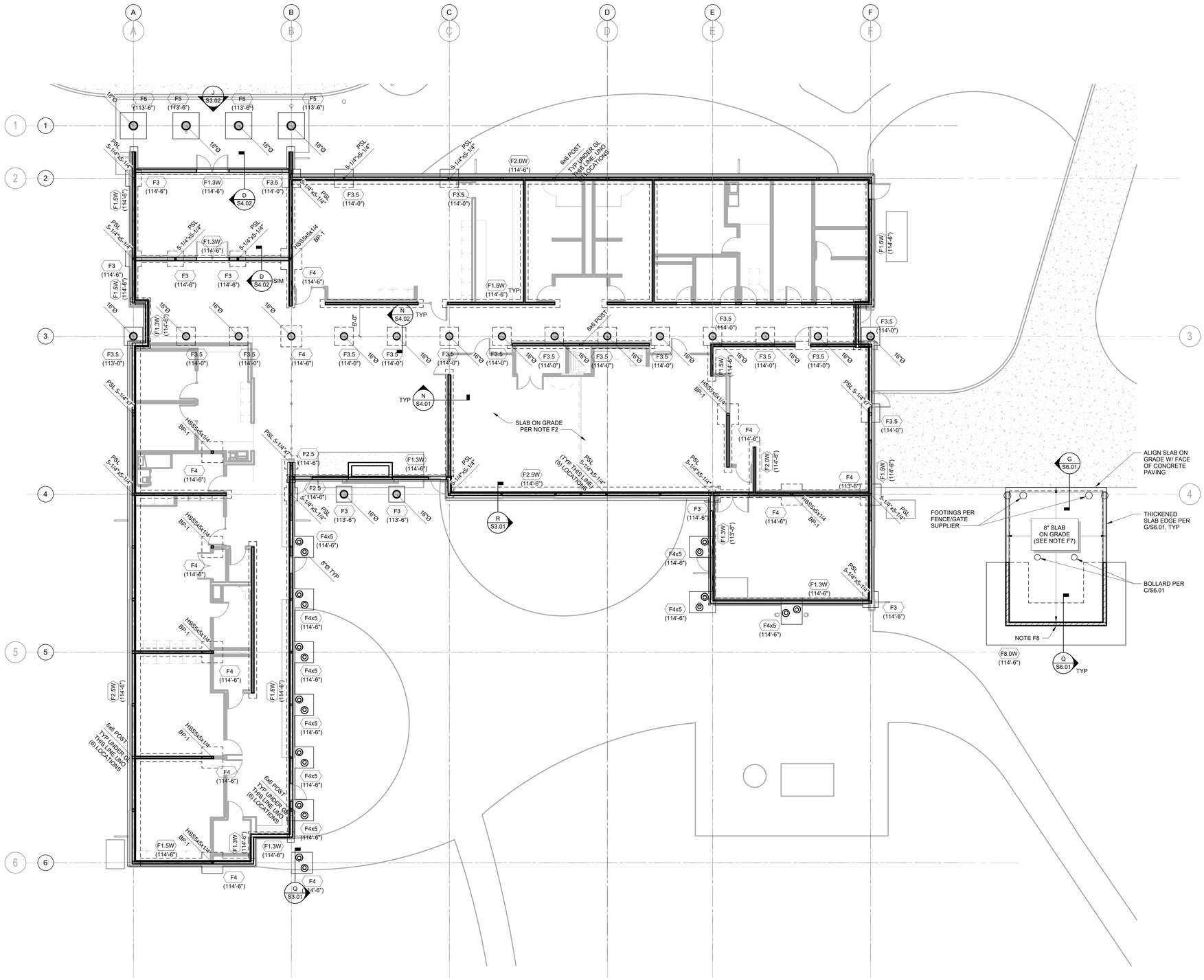
CONTENTS:

**LOAD MAPS**

SCALE: **AS INDICATED**
DRAWN: **Author**
CHECKED: **Checker**
KPFF PROJECT NO: 2000416

SHEET:

**S1.0**




1 FOUNDATION AND FIRST FLOOR PLAN
1/8" = 1'-0"

GENERAL PLAN NOTES:

G1. REFERENCE DRAWINGS:
- S1.X - STRUCTURAL NOTES AND SPECIAL INSPECTION
- S3.X - SECTIONS AND ELEVATIONS
- S4.X - TYPICAL CONCRETE DETAILS
- S5.X - TYPICAL WOOD DETAILS
- S6.X - TYPICAL CMU DETAILS

G2. CONTRACTOR SHALL COORDINATE ALL OPENING DIMENSIONS, SLAB PENETRATIONS, BLOCKOUTS, DEPRESSIONS AND EMBEDS WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS PRIOR TO SUBMITTING SHOP DRAWINGS. ENGINEER SHALL BE NOTIFIED OF ALL OPENING/PENETRATIONS THAT ARE ADDED OR CHANGED FROM WHAT IS SHOWN ON THIS PLAN.

G3. ONLY STRUCTURAL WALLS ARE SHOWN. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL WALLS OR EXTENTS.

G4. VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.

G5. SEE ARCHITECTURAL DRAWINGS FOR FLOOR AND PLATE ELEVATIONS.

G6. CONTRACTOR SHALL COORDINATE SIZE AND LOCATION OF ALL HOUSEKEEPING PADS AND CURBS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. SEE DETAIL G/S4.1.

FOUNDATION PLAN NOTES:

F1. TOP OF SLAB-ON-GRADE SHALL BE 117'-0" THIS LEVEL, UNO.

F2. SLAB ON GRADE TO BE 4" THICK (5" WHERE EXPOSED TO VIEW) WITH #4 @ 18" OC EA WAY. PROVIDE 10 MIL VAPOR BARRIER UNDER ALL SLABS ON GRADE AT HEATED SPACES.

F3. (F10.0) (99'-0") INDICATES FOOTING TYPE PER SCHEDULE ON SHEET S4.1 AND BOTTOM OF FOOTING ELEVATION.

F4. PREPARE SUBGRADE PER GEOTECHNICAL REPORT.

F5. PROVIDE TRIM REINFORCING AT ALL SLAB ON GRADE PENETRATIONS PER C/S4.1.

F6. REF DETAIL B/S4.1 FOR SLAB CONTROL JOINT REQUIREMENTS. CONTRACTOR SHALL SUBMIT PROPOSED CONSTRUCTION JOINT LOCATIONS TO ARCHITECT AND ENGINEER APPROVAL PRIOR TO CONSTRUCTION.

F7. SLAB ON GRADE AT ENCLOSURE TO BE 8" REINFORCED WITH #5 @ 12" OC EA WAY. PREPARE SUBGRADE PER GEOTECHNICAL REPORT AND PROVIDE 4 COMPACTED BASE COURSE PER CIVIL.

F8. PROVIDE MASONRY CONTROL AT THE MID POINT OF WALL PER H/S6.01.

WOOD PLAN NOTES:

W1. ALL EXTERIOR WALLS TO BE 2x6 DF STUD GRADE @ 16" OC TYP UNO. ALL WALLS GREATER THAN 12'-0" TALL SHALL BE 1-1/2"x5-1/2" LSL @ 16" OC.

W2. ALL INTERIOR WALLS TO BE 2x6 DF STUD GRADE @ 16" OC TYP UNO. ALL WALLS GREATER THAN 12'-0" TALL SHALL BE 1-1/2"x5-1/2" LSL @ 16" OC.

W3. NON-STRUCTURAL WALLS TO BE 2x4 DF STUD GRADE @ 16" OC TYP UNO. ALL WALLS GREATER THAN 12'-0" TALL SHALL BE 1-1/2"X3-1/2" LSL @ 16" OC.

WOOD FRAMING LEGEND:

STRUCTURAL WALL ABOVE

SW-X — INDICATE SHEAR WALL ABOVE AND SHEATHING SIDE

X — INDICATES HOLD DOWN TYPE. REFER TO S5.21 FOR HOLD DOWN SCHEDULE & DETAILS.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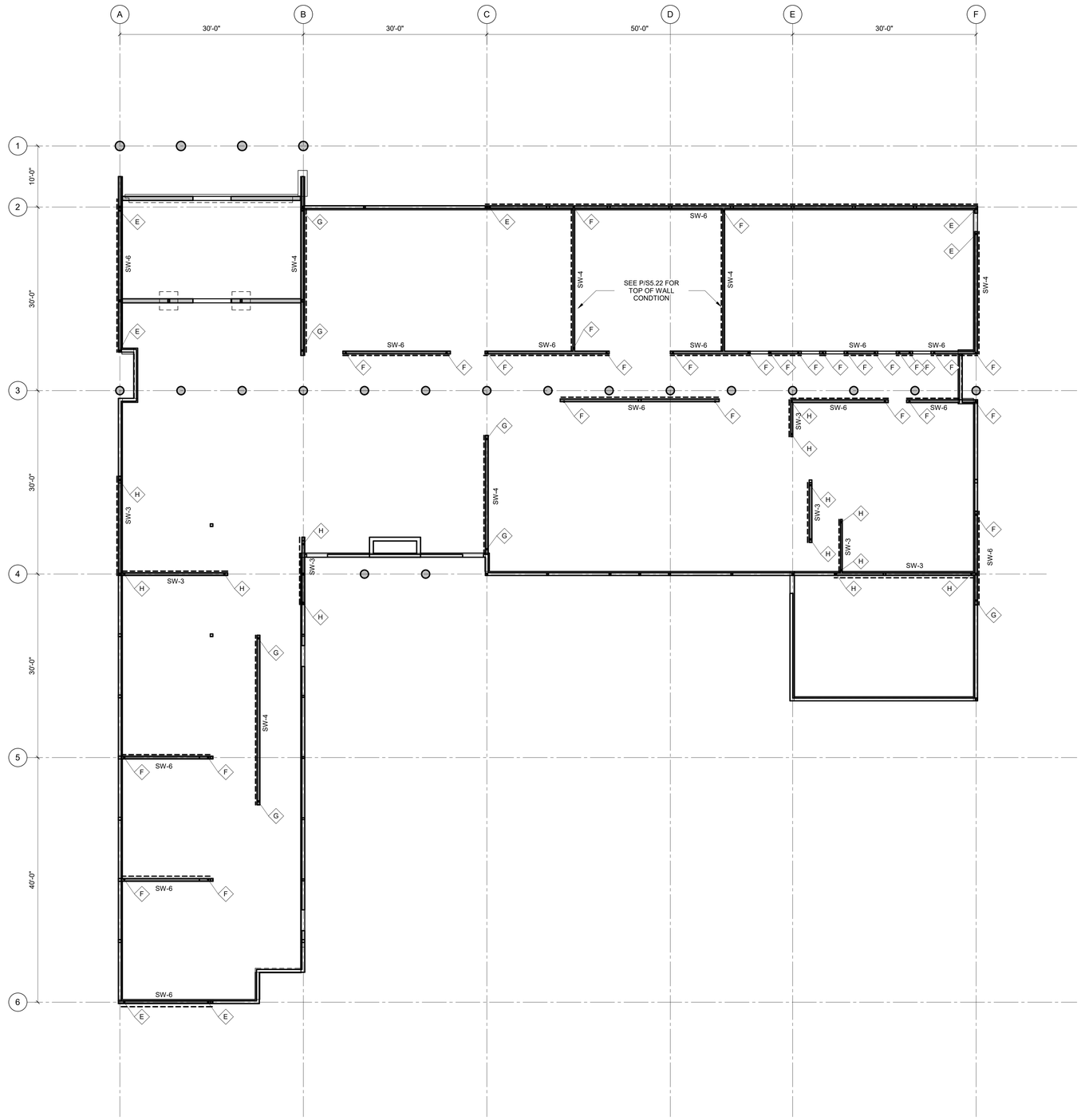
| | | |

CONTENTS:

**FOUNDATION AND FIRST FLOOR PLAN**

SCALE: **AS INDICATED**
DRAWN: **DMH**
CHECKED: **AMR**
KPFF PROJECT NO: 2000416

SHEET:
**S2.1A**




1 SHEAR WALL PLAN

1/8" = 1'-0"

PLAN NORTH

GENERAL PLAN NOTES:

G1. REFERENCE DRAWINGS:
- S1.X - STRUCTURAL NOTES AND SPECIAL INSPECTION
- S3.X - SECTIONS AND ELEVATIONS
- S4.X - TYPICAL CONCRETE DETAILS
- S5.X - TYPICAL WOOD DETAILS
- S6.X - TYPICAL CMU DETAILS

G2. CONTRACTOR SHALL COORDINATE ALL OPENING DIMENSIONS, SLAB PENETRATIONS, BLOCKOUTS, DEPRESSIONS AND EMBEDS WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS PRIOR TO SUBMITTING SHOP DRAWINGS. ENGINEER SHALL BE NOTIFIED OF ALL OPENING/PENETRATIONS THAT ARE ADDED OR CHANGED FROM WHAT IS SHOWN ON THIS PLAN.

G3. ONLY STRUCTURAL WALLS ARE SHOWN. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL WALLS OR EXTENTS.

G4. VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.

G5. SEE ARCHITECTURAL DRAWINGS FOR FLOOR AND PLATE ELEVATIONS.

G6. CONTRACTOR SHALL COORDINATE SIZE AND LOCATION OF ALL HOUSEKEEPING PADS AND CURBS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. SEE DETAIL G/S4.1.

WOOD PLAN NOTES:

W1. ALL EXTERIOR WALLS TO BE 2x6 DF STUD GRADE @ 16" OC TYP UNO. ALL WALLS GREATER THAN 12'-0" TALL SHALL BE 1-1/2"x5-1/2" LSL @ 16" OC.

W2. ALL INTERIOR WALLS TO BE 2x6 DF STUD GRADE @ 16" OC TYP UNO. ALL WALLS GREATER THAN 12'-0" TALL SHALL BE 1-1/2"x5-1/2" LSL @ 16" OC.

W3. NON-STRUCTURAL WALLS TO BE 2x4 DF STUD GRADE @ 16" OC TYP UNO. ALL WALLS GREATER THAN 12'-0" TALL SHALL BE 1-1/2"x3-1/2" LSL @ 16" OC.

WOOD FRAMING LEGEND:

STRUCTURAL WALL ABOVE

SW-X — INDICATE SHEAR WALL ABOVE AND SHEATHING SIDE

X — INDICATES HOLD DOWN TYPE. REFER TO S5.21 FOR HOLD DOWN SCHEDULE & DETAILS.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16 Apr 21

# The Chehalis Tribe Chehalis Elders Center

NIEDERMAN RD
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THE CHEHALIS TRIBE

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| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

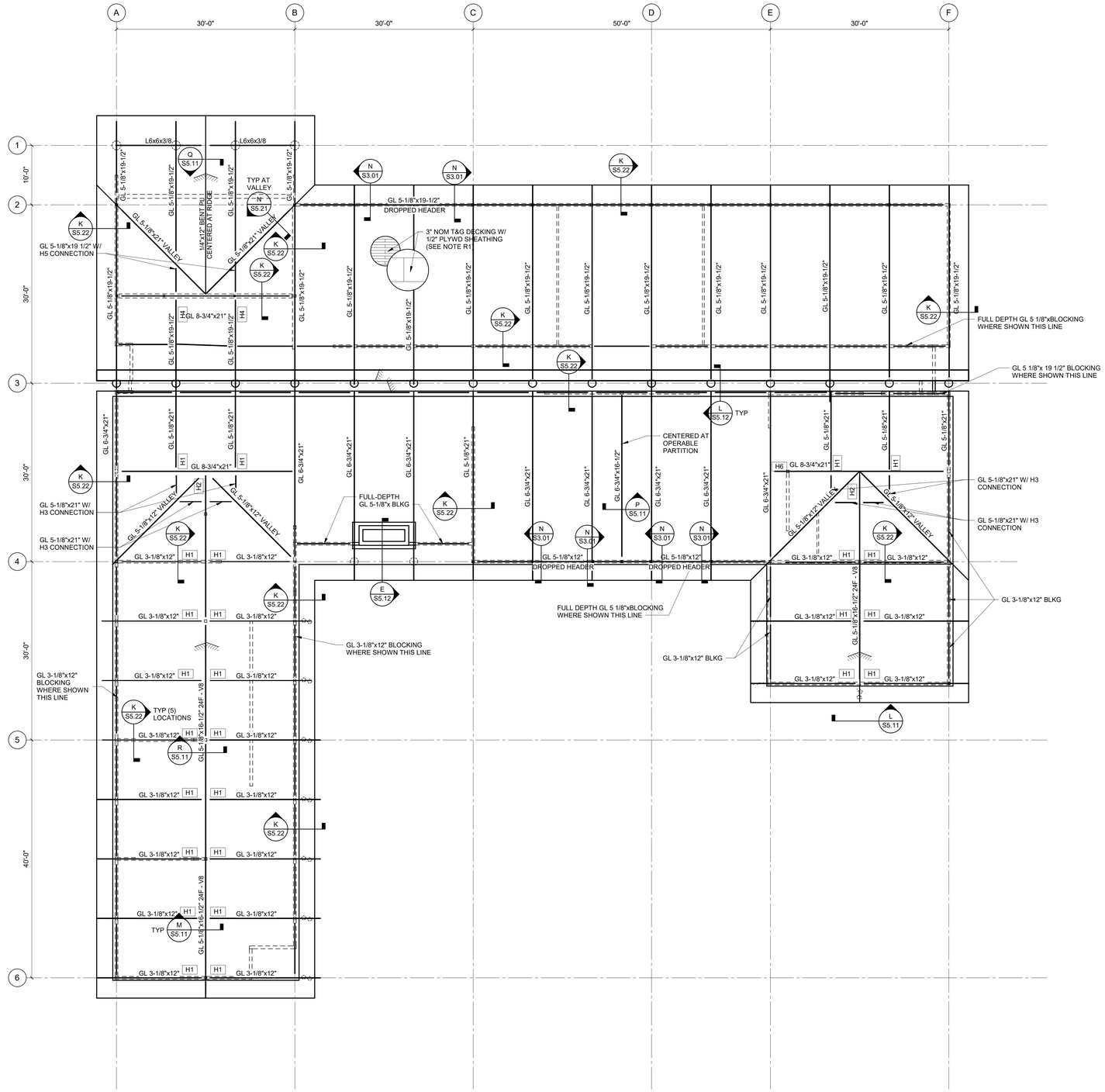
CONTENTS:

**SHEAR WALL PLAN**

| | |
|---|---|
| SCALE: | AS INDICATED |
| DRAWN: | Author |
| CHECKED: | Checker |
| KPFF PROJECT NO: | 2000416 |

SHEET:

**S2.1B**




1 ROOF FRAMING PLAN

1/8" = 1'-0"

PLAN NORTH

GENERAL PLAN NOTES:

G1. REFERENCE DRAWINGS:
- S1.X - STRUCTURAL NOTES AND SPECIAL INSPECTION
- S3.X - SECTIONS AND ELEVATIONS
- S4.X - TYPICAL CONCRETE DETAILS
- S5.X - TYPICAL WOOD DETAILS
- S6.X - TYPICAL CMU DETAILS

G2. CONTRACTOR SHALL COORDINATE ALL OPENING DIMENSIONS, SLAB PENETRATIONS, BLOCKOUTS, DEPRESSIONS AND EMBEDS WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS PRIOR TO SUBMITTING SHOP DRAWINGS. ENGINEER SHALL BE NOTIFIED OF ALL OPENING/PENETRATIONS THAT ARE ADDED OR CHANGED FROM WHAT IS SHOWN ON THIS PLAN.

G3. ONLY STRUCTURAL WALLS ARE SHOWN. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL WALLS OR EXTENTS.

G4. VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.

G5. SEE ARCHITECTURAL DRAWINGS FOR FLOOR AND PLATE ELEVATIONS.

ROOF FRAMING PLAN NOTES:

R1. ROOF SHALL CONSIST OF 15/32" PLYWOOD ROOF SHEATHING ATTACHED TO TIMBER DECKING WITH 16 GA x 1/2" STAPLES WITH 7/16" CROWN AT 6" OC AT ALL PANEL EDGES AND 12" OC AT 24FT SPACING ALONG SHEATHING. TIMBER DECKING SHALL BE 3x6 TONGUE AND GROOVE, DOUGLAS FIR LARCH, COMMERCIAL GRADE. INSTALL DECK IN A COMBINATION SIMPLE AND TWO-SPAN CONTINUOUS ARRAGEMENT PER AITC 112. ATTACH DECKING TO SUPPORTING FRAMING WITH (2) 1/4-20 SCREWS, COUNTER-SUNK, AT EACH GL MEMBER AND (2) 1/4-20 SCREWS, COUNTER-SUNK AT THE END OF EACH PLANK. EACH PIECE SHALL BE TOENAILED THROUGH THE TONGUE AND EACH SUPPORT WITH (1) 16d COMMON NAIL.

R2. SEE ARCHITECTURAL DRAWINGS FOR ROOF ELEVATIONS.

R3. SEE Q/S5.01 FOR CONNECTION SCHEDULE.

WOOD FRAMING LEGEND:

[ - - - - ] STRUCTURAL WALL BELOW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**ROOF FRAMING PLAN**

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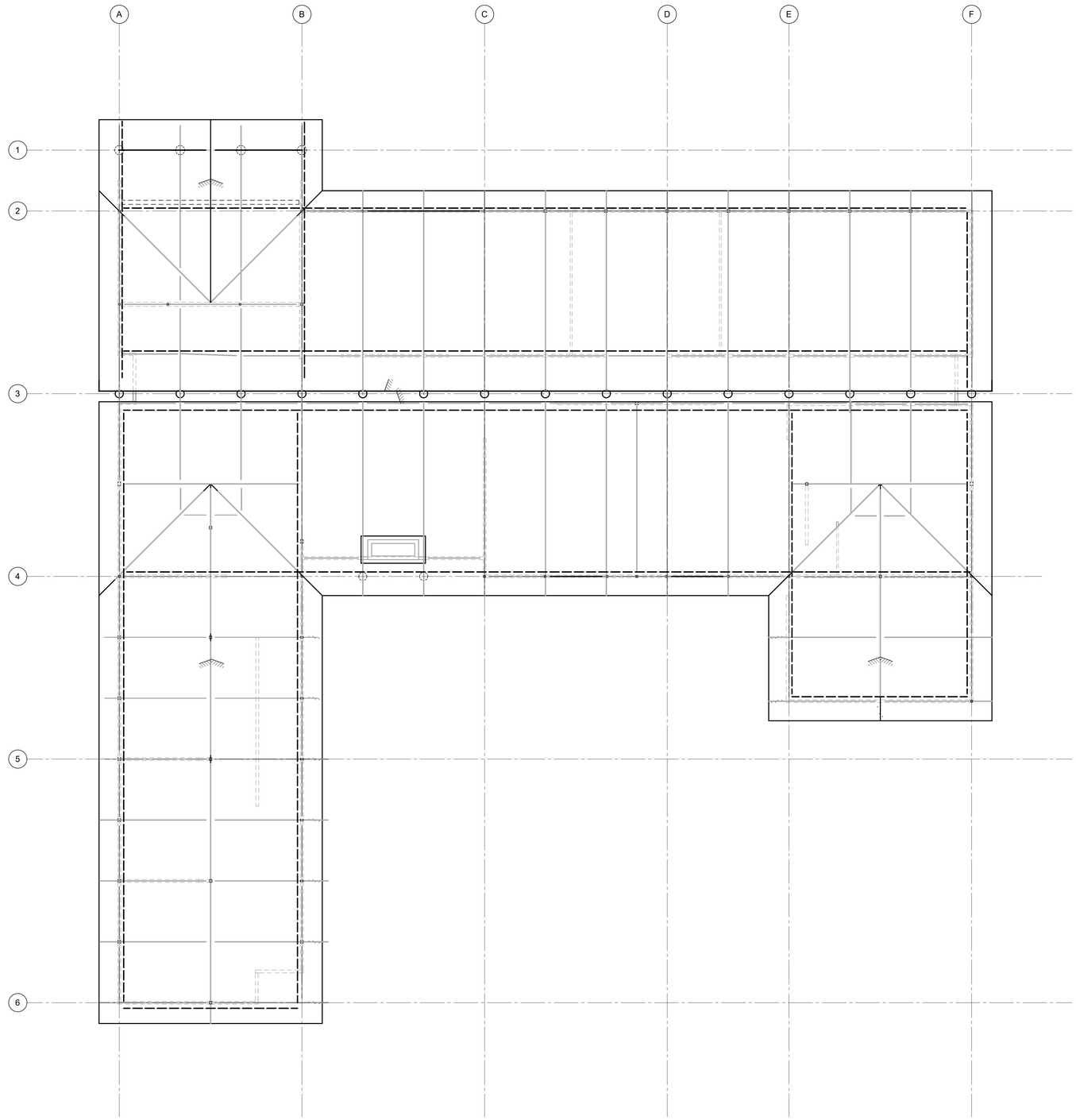
CHECKED: **AMR**
KPFF PROJECT NO: 2000416

SHEET:

**S2.2A**




1 ROOF NAILING AND REINFORCING PLAN
1/8" = 1'-0"

PLAN NORTH

GENERAL PLAN NOTES:

G1. REFERENCE DRAWINGS:
- S1.X - STRUCTURAL NOTES AND SPECIAL INSPECTION
- S3.X - SECTIONS AND ELEVATIONS
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G4. VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.

G5. SEE ARCHITECTURAL DRAWINGS FOR FLOOR AND PLATE ELEVATIONS.

NAILING PLAN NOTES:

N1. — — — — DENOTES SIMPSON CS16 W/ (18)0.148x2 1/2" FASTENERS IN EVERY OTHER HOLE SPLICED PER SIMPSON GENERAL NOTES.


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| | | |
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| | | |

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**ROOF NAILING AND REINFORCING PLAN**

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CHECKED: **Checker**
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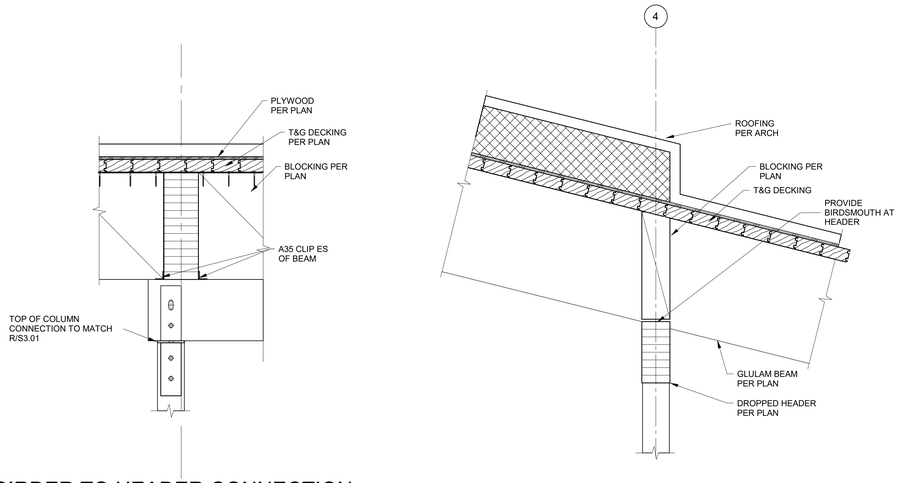
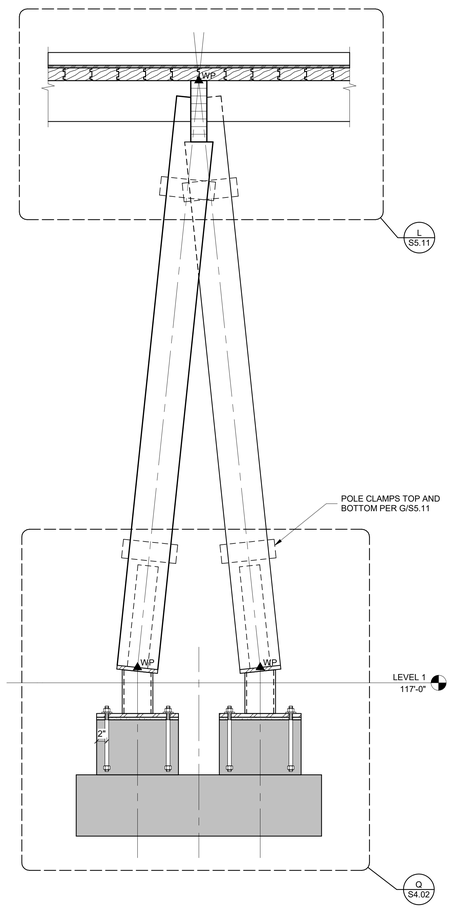
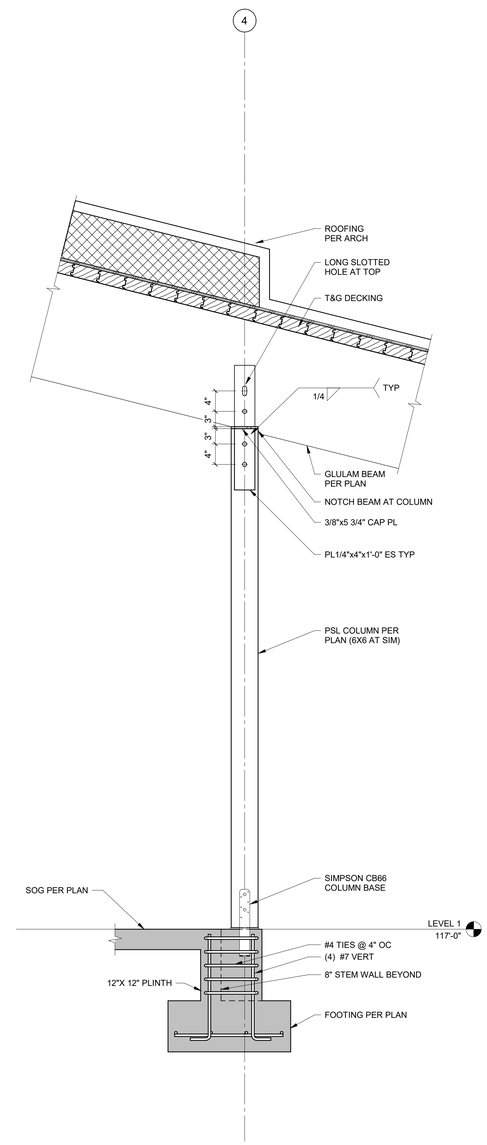
SHEET:
**S2.2B**




N GIRDER TO HEADER CONNECTION
1" = 1'-0"




Q 8" DIA PEELED POLE ELEVATION
1" = 1'-0"




R SECTION
1" = 1'-0"

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# The Chehalis Tribe
# Chehalis Elders Center

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CONTENTS:

## SECTIONS AND ELEVATIONS

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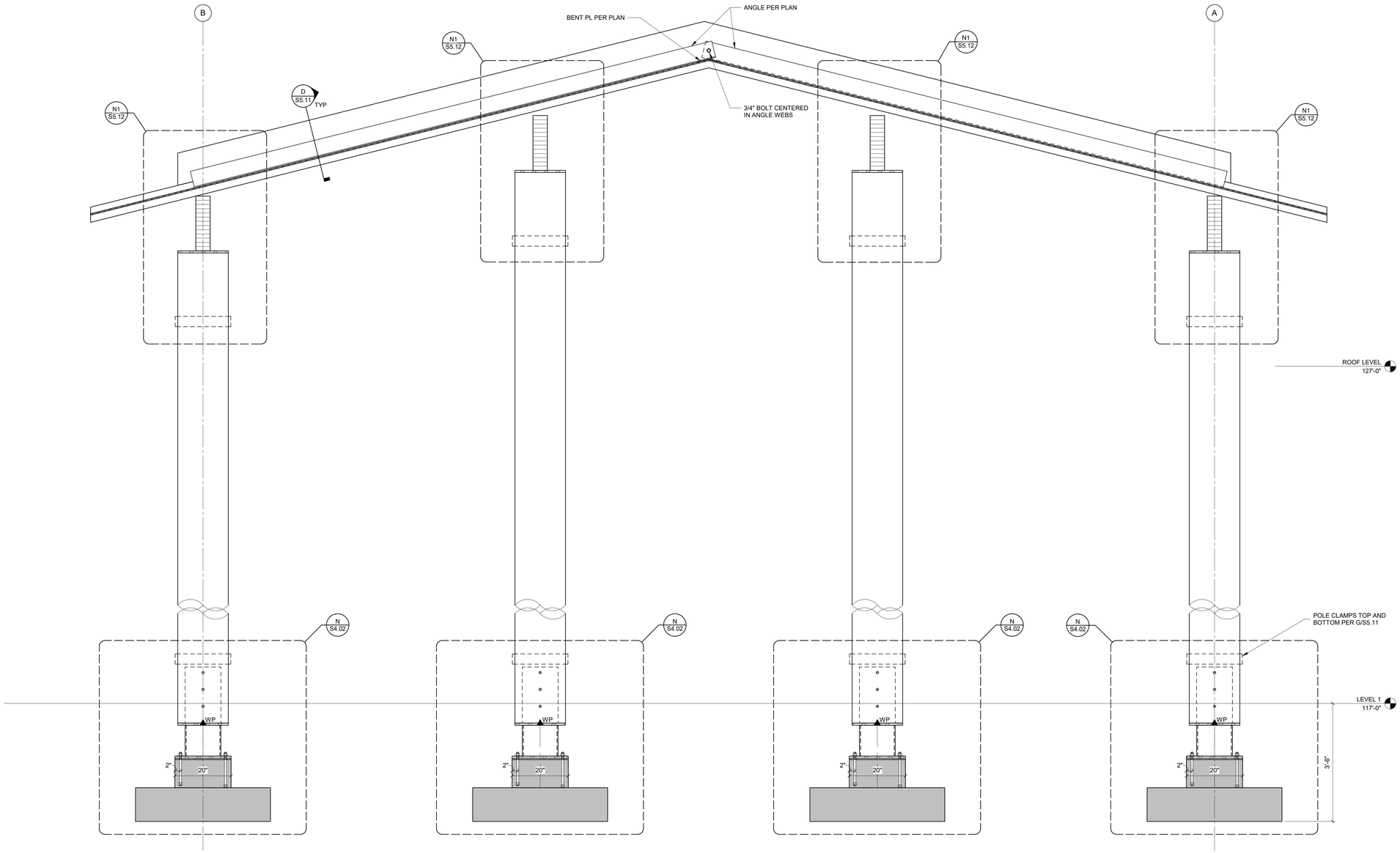
| KPFF PROJECT NO.: | 2000416 |

SHEET:

# S3.01




J MAIN ENTRY ELEVATION

3/4" = 1'-0"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CONTENTS:

**SECTIONS AND ELEVATIONS**

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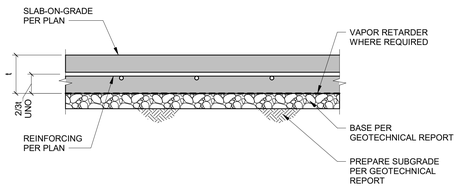
| DRAWN: | Author |
| CHECKED: | Checker |
| KPFF PROJECT NO: | 2000416 |

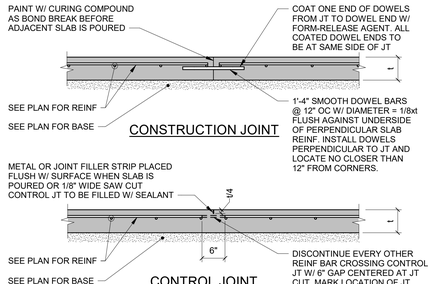
SHEET:

**S3.02**



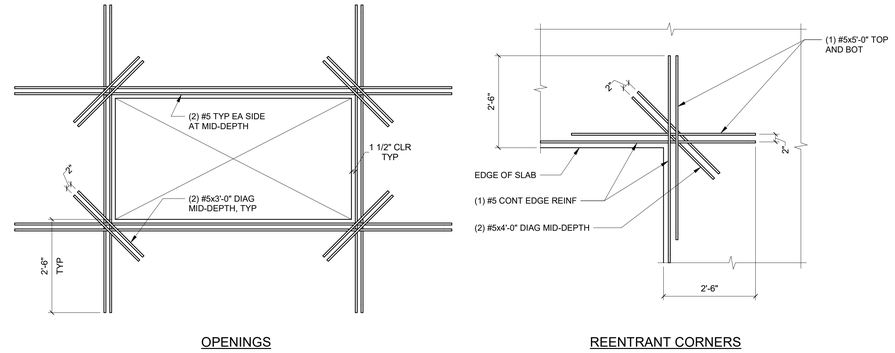

NOTES:
1. SEE PLANS, SPECIFICATIONS AND GEOTECHNICAL REPORT FOR MATERIAL REQUIREMENTS.
2. VAPOR RETARDER IS REQUIRED AT ALL HEATED SPACES AND WHERE REQUIRED BY SPECIFICATIONS FOR FLOOR FINISHES.

## A TYPICAL SLAB-ON-GRADE SECTION
NO SCALE

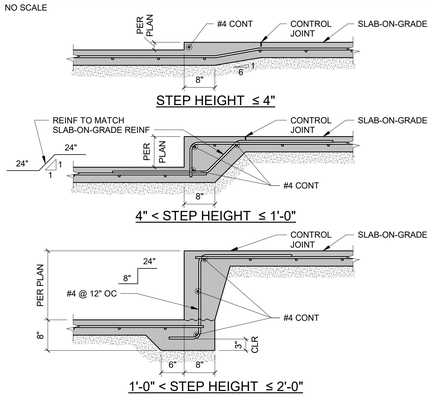



NOTES:
1. REFER TO PLAN FOR SLAB THICKNESS AND REINFORCING.
2. CONTROL JOINTS TO BE SPACED @ 15'-0" OC MAX, EACH WAY, UNLESS NOTED OTHERWISE. RATIO OF DISTANCE BETWEEN CONTROL JOINTS IN EACH DIRECTION FOR A SLAB PANEL SHALL NOT EXCEED 1.5. CONSTRUCTION JOINTS PER THIS DETAIL SHALL BE CONSIDERED AS CONTROL JOINTS FOR CONTROL JOINT SPACING REQUIREMENTS.
3. WHERE CONTROL JOINTS ARE SAW CUT, TIMING OF JOINT CUTTING SHALL BE PER THE PROJECT SPECIFICATIONS.

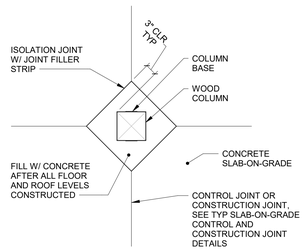
## B TYP SOG CONTROL & CONSTRUCTION JOINTS
NO SCALE



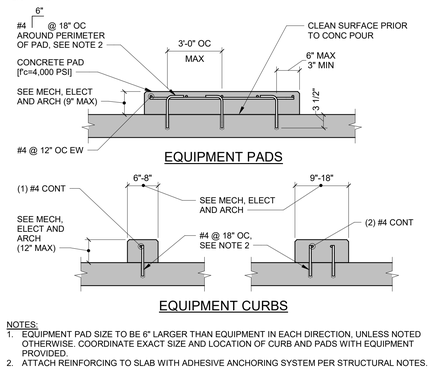

## C TYPICAL SLAB-ON-GRADE TRIM REINFORCING
3/4" = 1'-0"




## E TYP SLAB-ON-GRADE STEP
NO SCALE

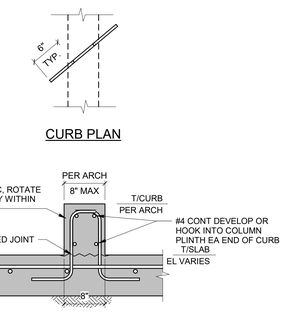



## F TYP ISOLATION JOINT AT WOOD COLUMN
NO SCALE

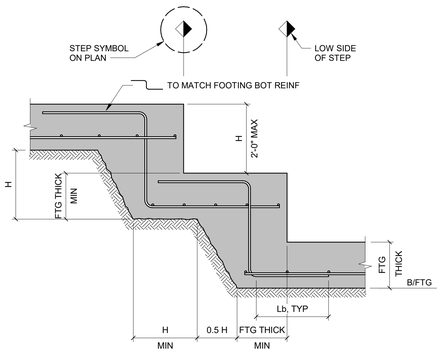



NOTES:
1. EQUIPMENT PAD SIZE TO BE 6" LARGER THAN EQUIPMENT IN EACH DIRECTION, UNLESS NOTED OTHERWISE. COORDINATE EXACT SIZE AND LOCATION OF CURB AND PADS WITH EQUIPMENT PROVIDED.
2. ATTACH REINFORCING TO SLAB WITH ADHESIVE ANCHORING SYSTEM PER STRUCTURAL NOTES.

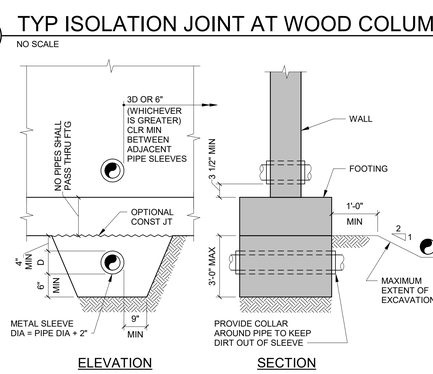
## G TYP CURBS & PADS ON CONCRETE SLABS
NO SCALE




## H TYPICAL CURB DETAIL
1" = 1'-0"




## J TYP STEPPED FOOTING DETAIL
NO SCALE




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

## K TYP DETAIL OF PIPE AT FOOTINGS
NO SCALE




## L TYP CONCRETE WALL DETAILS
NO SCALE

$f'_c$ = 4,000 PSI
$f_y$ = 60,000 PSI

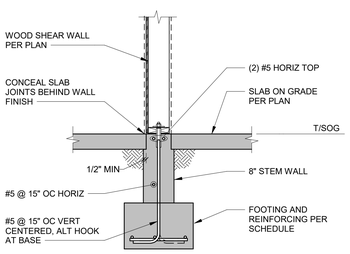
| SIZE | Ld | Ldt | Lb | Lbt | Ldh |
|---|---|---|---|---|---|
| #4 | 19 (28) | 25 (37) | 25 (37) | 32 (48) | 9 |
| #5 | 24 (36) | 31 (46) | 31 (46) | 40 (60) | 12 |
| #6 | 28 (43) | 37 (55) | 37 (55) | 48 (72) | 14 |
| #7 | 42 (62) | 54 (81) | 54 (81) | 70 (105) | 17 |
| #8 | 47 (71) | 62 (92) | 62 (92) | 80 (120) | 19 |
| #9 | 54 (80) | 70 (104) | 70 (104) | 90 (136) | 21 |
| #10 | 60 (90) | 78 (117) | 78 (117) | 102 (153) | 24 |
| #11 | 67 (100) | 87 (130) | 87 (130) | 113 (170) | 27 |

ABBREVIATIONS

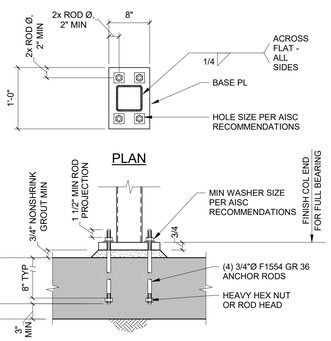
db = BAR DIAMETER
Ld = TENSION DEVELOPMENT LENGTH
Ldt = TENSION DEVELOPMENT LENGTH FOR A TOP BAR
Lb = CLASS B LAP SPLICE LENGTH, 1.3 Ld
Lbt = CLASS B LAP SPLICE LENGTH FOR A TOP BAR, 1.3 Ldt
Ldh = TENSION DEVELOPMENT LENGTH FOR A STANDARD HOOK

NOTES:
1. USE THE LENGTHS IN THIS SCHEDULE, UNLESS NOTED OTHERWISE.
2. USE LENGTH IN ( ) WHEN BAR COVER IS db OR LESS OR BAR CLEAR SPACING IS 2db OR LESS.
3. A TOP BAR IS A HORIZONTAL BAR WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW IT.

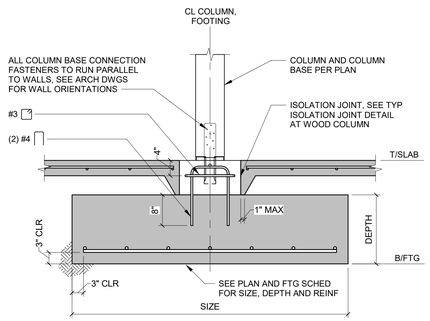
## M ABBREVIATIONS, DEVELOPMENT AND SPLICE LENGTH SCHEDULE
NO SCALE




## N TYP INT SHEAR WALL FOOTING DETAIL
3/4" = 1'-0"




## P BP-1 DETAIL
NO SCALE




## Q TYP INTERIOR WOOD COLUMN FOOTING
NO SCALE

FOOTING SCHEDULE

| TYPE MARK | DIMENSIONS LENGTH | DIMENSIONS WIDTH | DIMENSIONS DEPTH | REINFORCING | TYPE COMMENTS |
|---|---|---|---|---|---|
| F1.3W | - | 1'-4" | 1'-0" | (3) #5 LONG, #5@12" OC TRANS | - |
| F1.5W | - | 1'-6" | 1'-0" | (3) #5 LONG, #5@12" OC TRANS | - |
| F2.0W | - | 2'-0" | 1'-0" | (4) #5 EW LONG, #5@12" OC TRANS | - |
| F2.5 | 2'-6" | 2'-6" | 1'-0" | (4) #4 EW | HOOK BARS AT END |
| F2.5W | - | 2'-6" | 1'-0" | (4) #5 LONG, #5@12" OC TRANS | - |
| F3 | 3'-0" | 3'-0" | 1'-0" | (4) #4 EW | HOOK BARS AT END |
| F4 | 4'-0" | 4'-0" | 1'-0" | (5) #5 EW | - |
| F4x5 | 4'-0" | 5'-0" | 1'-0" | (5) #5 EW | - |
| F5 | 5'-0" | 5'-0" | 1'-0" | (5) #5 EW | - |
| F8.0W | - | 8'-0" | 1'-2" | (8) #8 LONG #5@12" OC TRANS | - |

NOTES:
1. SEE Q/S4.01 AND R/S4.03 FOR TYPICAL FOOTING DETAIL AT COLUMN.

## R FOOTING SCHEDULE
NO SCALE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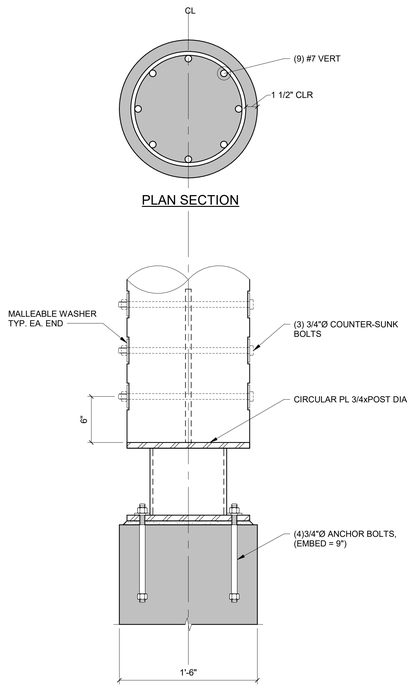
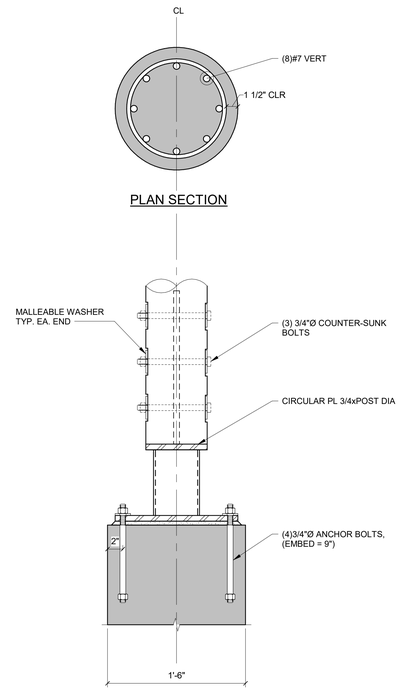
CHECKED: JJC
KPFF PROJECT NO: 2000416

SHEET:
S4.01



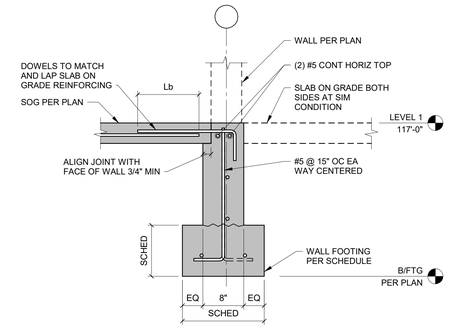

N TYP 16" DIA PEELED POLE BASE

NTS



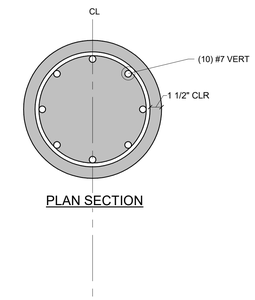

Q TYP 8" DIA. PEELED POLE BASE

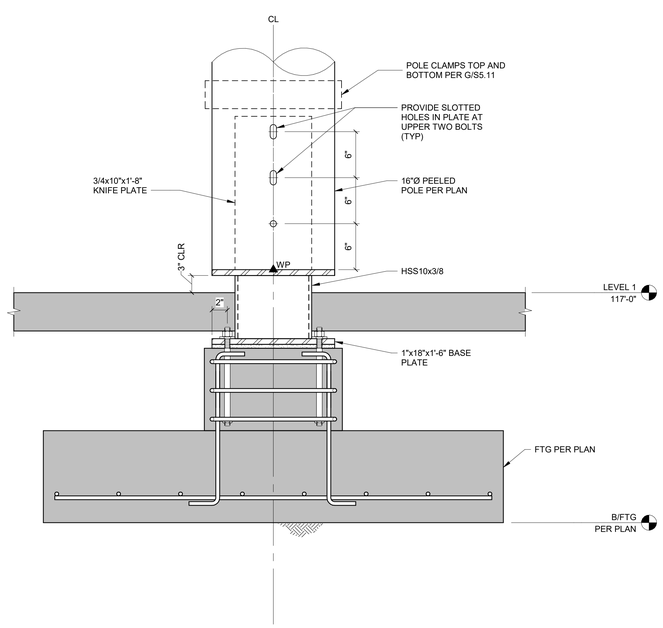
1 1/2" = 1'-0"

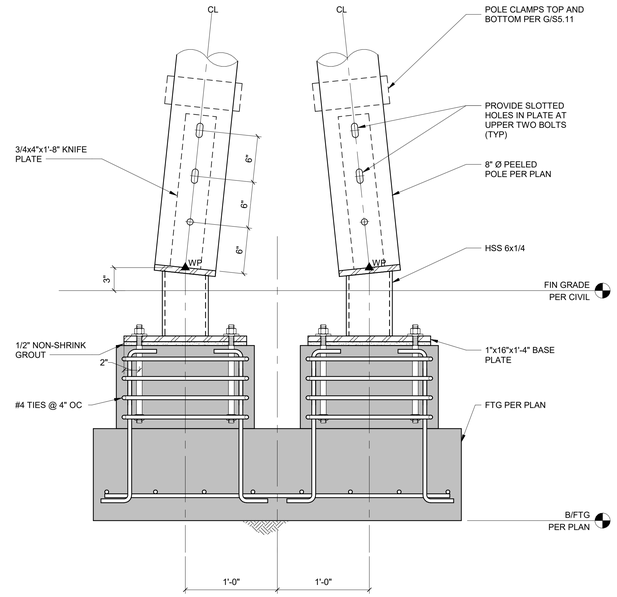


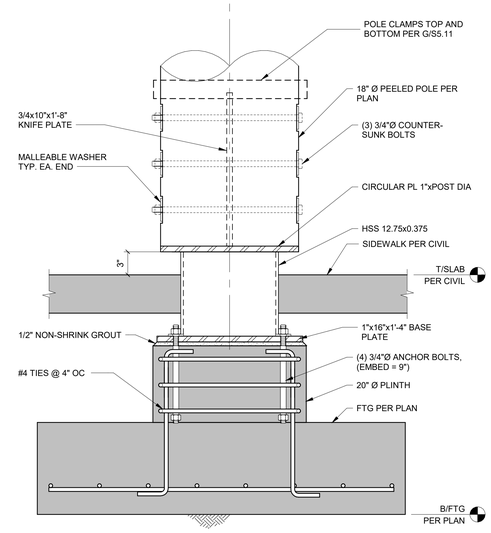

D TYPICAL EXTERIOR WALL FOOTING

1" = 1'-0"




R TYP 18" DIA. PEELED POLE BASE

NTS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16 Apr 21

# The Chehalis Tribe Chehalis Elders Center

NIEDERMAN RD
OAKVILLE, WA 98568

**BID DOCUMENTS**

ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

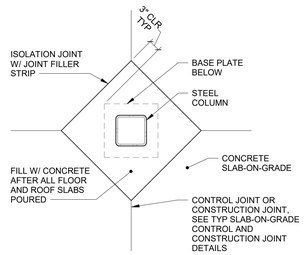
CONTENTS:

**TYPICAL CONCRETE DETAILS**

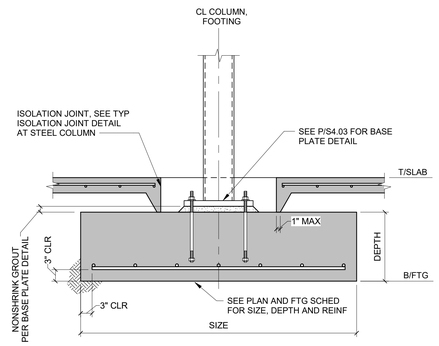
| | |
|---|---|
| SCALE: | AS INDICATED |
| DRAWN: | Author |
| CHECKED: | Checker |
| KPFF PROJECT NO: | 2000416 |

SHEET:

**S4.02**




Q TYP ISOLATION JOINT DETAIL AT STEEL COL
NO SCALE




R TYP INTERIOR STEEL COLUMN FOOTING
NO SCALE

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GREGORY L. HARRIS
STATE OF WASHINGTON
25840
PROFESSIONAL ENGINEER
16 Apr 21

# The Chehalis Tribe
# Chehalis Elders Center

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RD
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98568

THE CHEHALIS TRIBE

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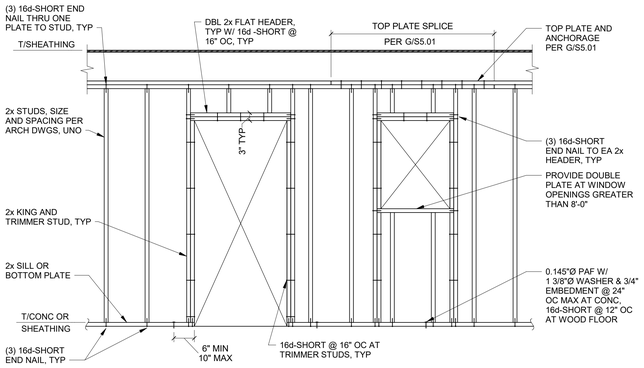
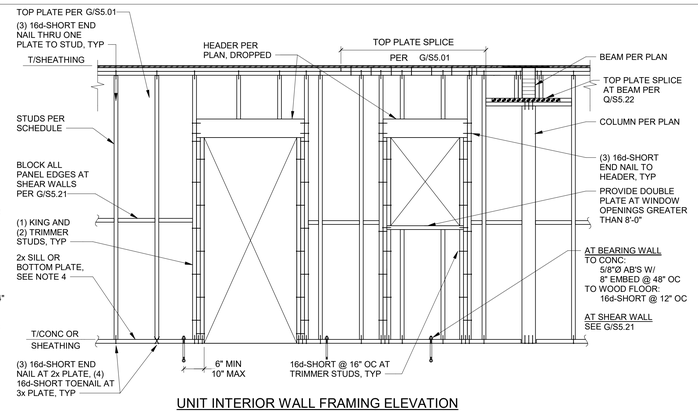
| DRAWN: | DMH |
| CHECKED: | JJC |
| PROJECT NO: | 1600346 |

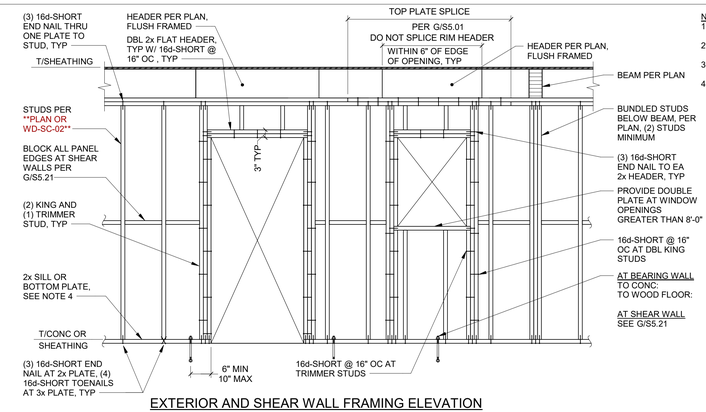
SHEET:
**S4.03**




INTERIOR NON-BEARING WALL FRAMING ELEVATION




UNIT INTERIOR WALL FRAMING ELEVATION

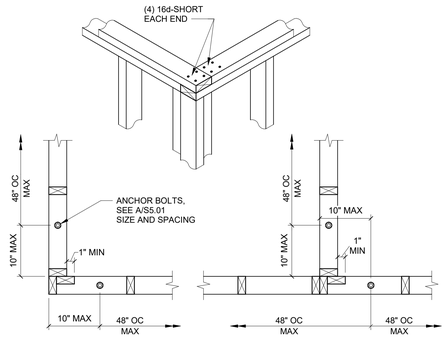



EXTERIOR AND SHEAR WALL FRAMING ELEVATION

NOTES (APPLIES TO ALL ELEVATIONS):
1. FRAMING NAILING NOT SHOWN SHALL BE AS INDICATED IN TABLE 2304.10.1.
2. SILL PLATES TO BE PRESSURE-TREATED WHERE IN CONTACT WITH CONCRETE.
3. SEE N/S5.21'OR R/S5.01'OR SILL BOLT CONSTRUCTION.
4. INCREASE SILL PLATE SIZE TO 3x WHERE REQUIRED BY SHEAR WALL SCHEDULE PER G/S5.21

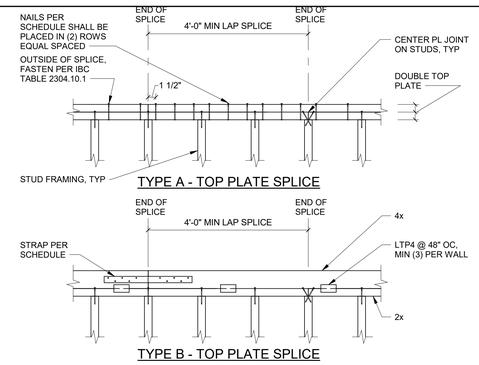
## (A) TYP STUD WALL FRAMING ELEVATION

NO SCALE




## (F) TYP STUD WALL CORNER

NO SCALE




| SPLICE SCHEDULE | | | |
|---|---|---|---|
| TYPE MARK | CONNECTION | TYPE | IBC CAPACITY (LBS) |
| TPS-1 | (8) 16d | A | 1671 |
| TPS-2 | (12) 16d | A | 2507 |
| TPS-3 | (24) 16d | A | 5013 |
| TPS-4 | (30) 16d | A | 6267 |

NOTES:
1. MINIMUM PLATE SPLICE IS TYPE TPS-1 FOR 2x PLATES.
2. PROVIDE CONTINUOUS TOP PLATES WITHOUT JOINTS WHERE WALLS ARE 12'-0" OR LESS IN LENGTH.
3. USE 10d NAILS WITH CMST STRAPS.
4. DOUBLE TOP PLATE 4x + 2x REQUIRED TO TPS-4 AND TPS-5.

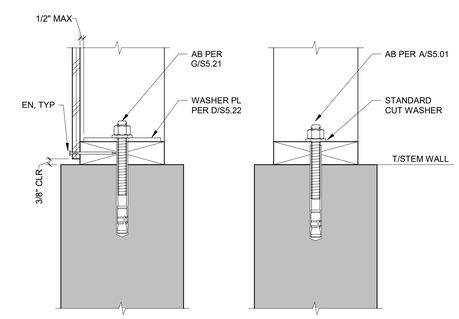
## (G) TOP PLATE SPLICE SCHEDULE

NO SCALE

| WOOD CONNECTION SCHEDULE | |
|---|---|
| TYPE MARK | CONNECTOR |
| H1 | SIMPSON LEG 3 |
| H2 | SIMPSON MSC5 |
| H3 | SIMPSON HUC3.25/12 |
| H4 | SIMPSON LEG 5 |
| H5 | SIMPSON HUC5.125/16 |
| H6 | SIMPSON LEG 7 |

## (Q) WOOD CONNECTION SCHEDULE

NO SCALE




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

## (R) TYP ANCHOR BOLTS AT STEM WALL

NO SCALE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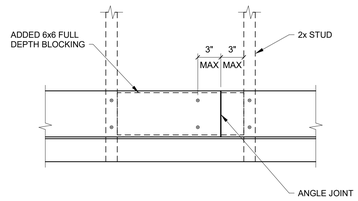
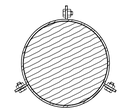
DRAWN: Author
CHECKED: Checker
KPFF PROJECT NO: 2000416

SHEET:

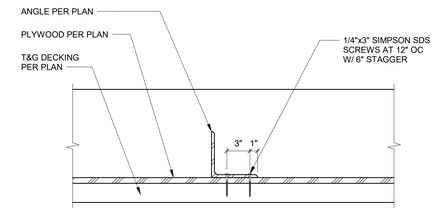
**S5.01**




ELEVATION AT SPLICE

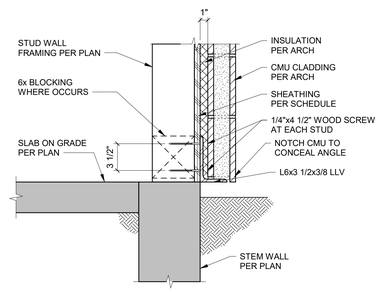


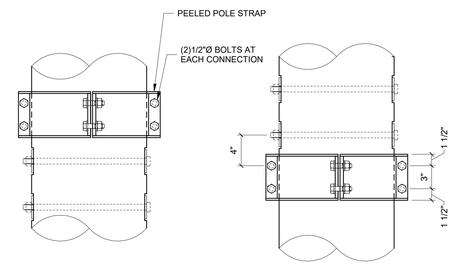
PLAN VIEW




## D ANGLE TO DECKING DETAIL

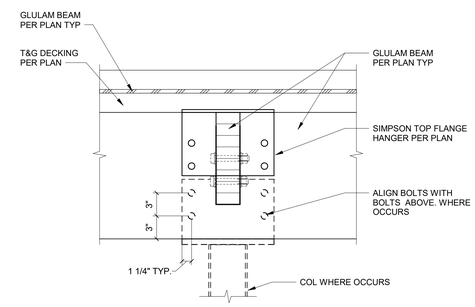
NO SCALE



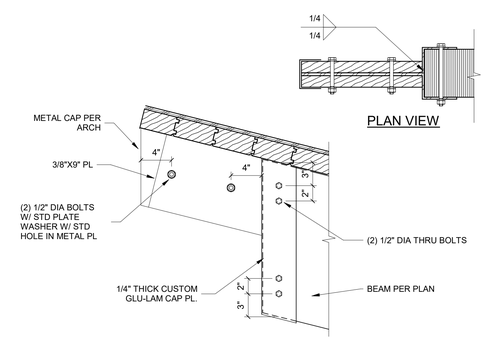

BOTTOM OF COLUMN

TOP OF COLUMN



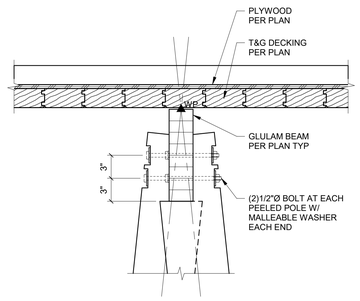

## F CMU SUPPORT

1 1/2" = 1'-0"



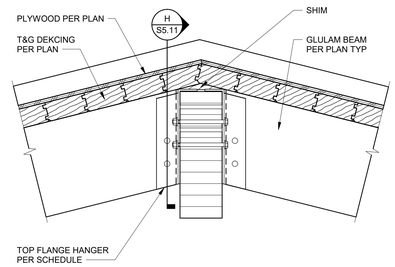

## G TYPICAL PEELED POLE STRAP

1 1/2" = 1'-0"



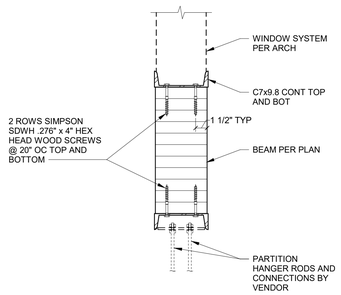

## H SECTION

1 1/2" = 1'-0"



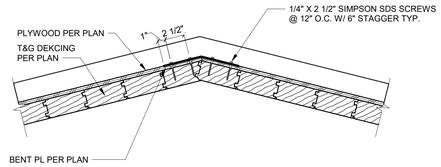

## J GLU-LAM CAP DETAIL

1 1/2" = 1'-0"



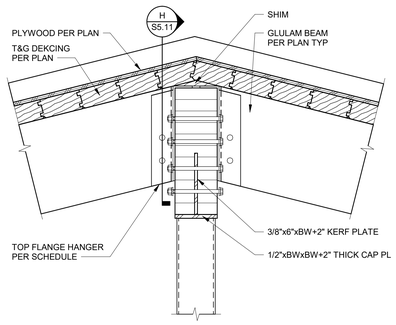

## L SECTION

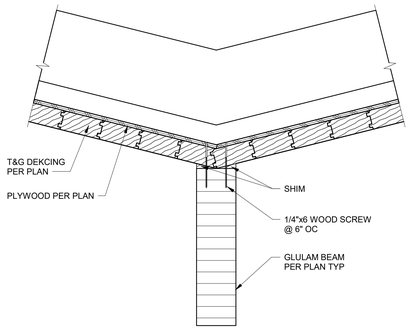
1 1/2" = 1'-0"




## M SECTION

1 1/2" = 1'-0"




## N SECTION

1 1/2" = 1'-0"

## P OPERABLE PARTITION SUPPORT

1 1/2" = 1'-0"

## Q BENT PL TO ROOF

1 1/2" = 1'-0"

## R SECTION

1 1/2" = 1'-0"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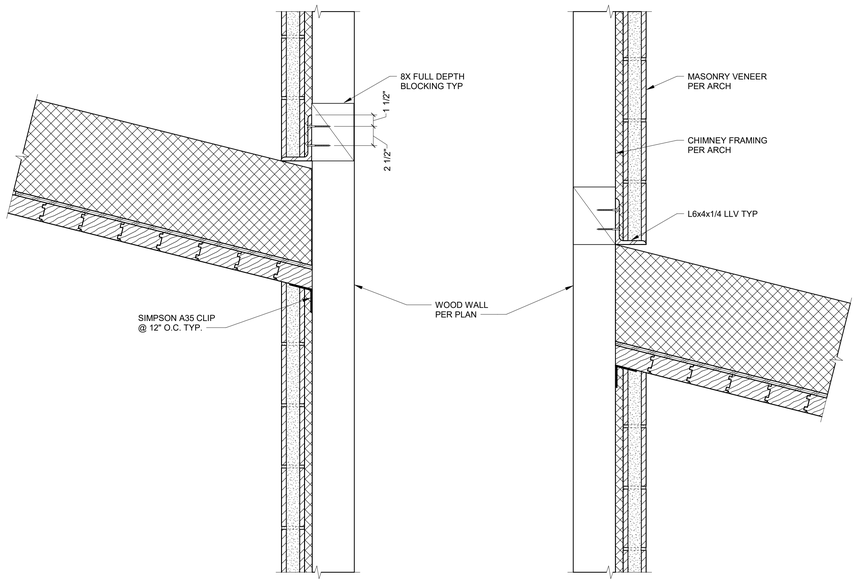
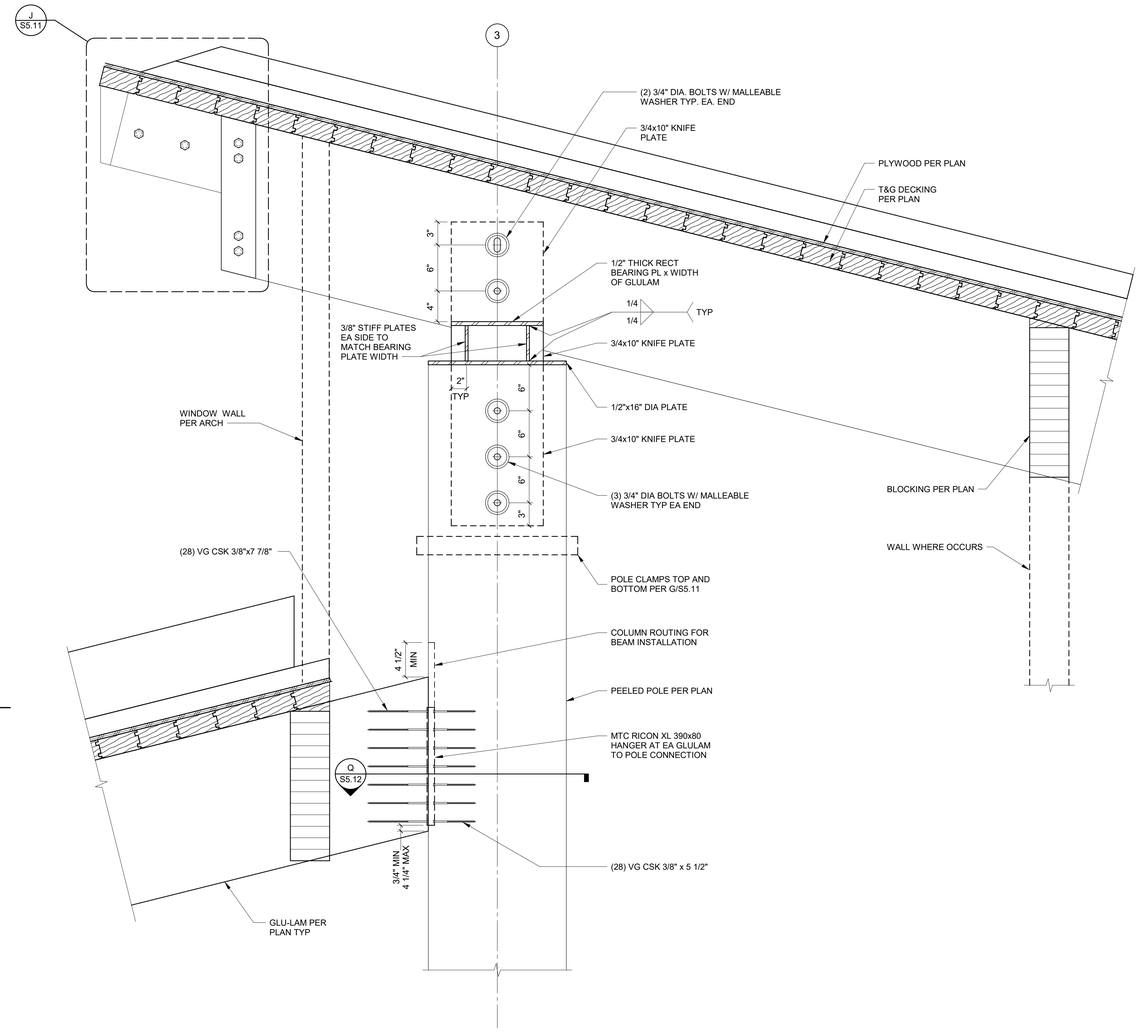
| | |
|---|---|
| SCALE: | AS INDICATED |
| DRAWN: | Author |
| CHECKED: | Checker |
| KPFF PROJECT NO: | 2000416 |

SHEET:

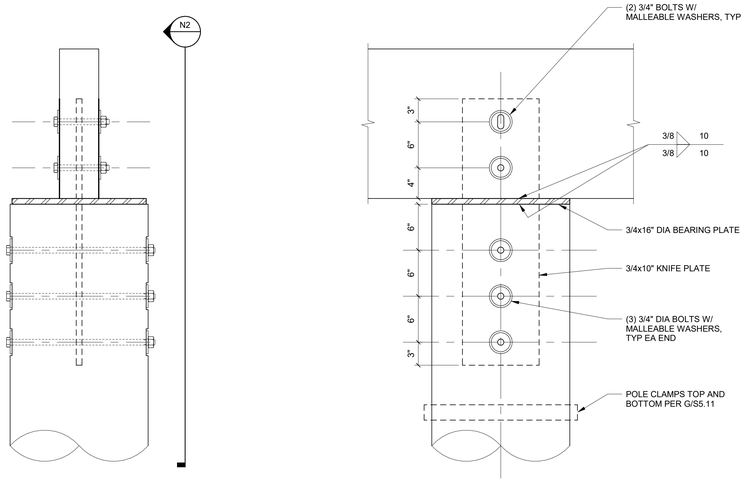
**S5.11**




E CHIMNEY SECTION
1 1/2" = 1'-0"



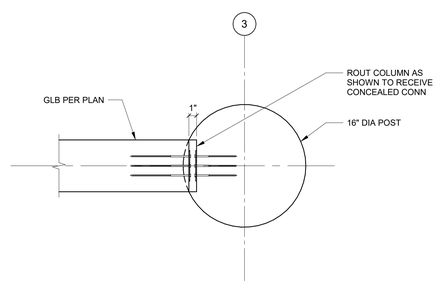

L CLERESTORY SECTION
1 1/2" = 1'-0"




N1 ELEVATION

N2 ELEVATION

N ENTRY COLUMN ROOF CONNECTION
1 1/2" = 1'-0"




Q CONCEALED BEAM TO POST CONNECTION
1 1/2" = 1'-0"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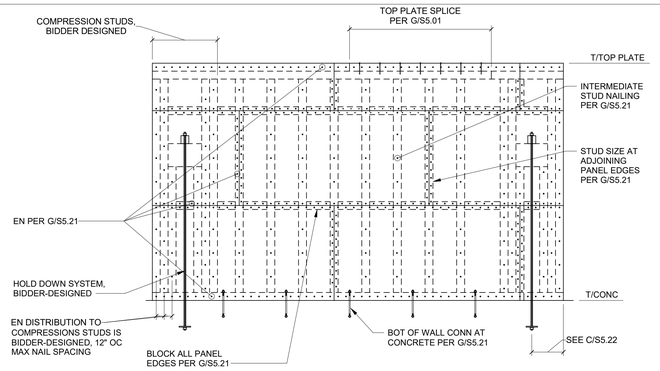
DRAWN: **Author**
CHECKED: **Checker**
KPFF PROJECT NO: 2000416

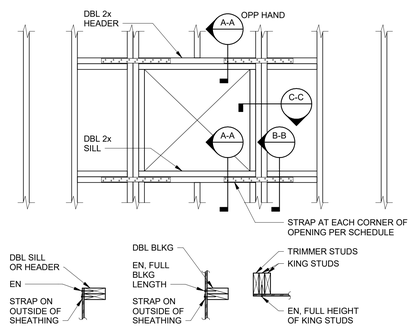
SHEET:
**S5.12**




## A TYP SHEAR WALL NAILING

NO SCALE

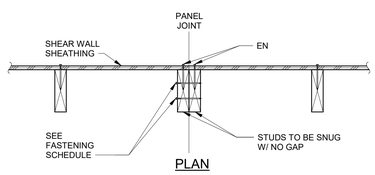
| SHEAR WALL OPENING STRAP SCHEDULE | |
|---|---|
| WALL TYPE | TYPE |
| SW-2, SW-3, SW-4, SW-6 | CS16 |
| 2SW-3, 2SW-4 | CS14 |




NOTES
1. WALL SHEATHING NOT SHOWN FOR CLARITY.

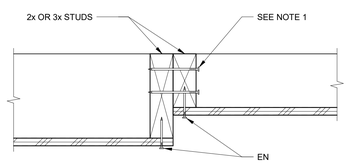
## F STRAPS AROUND SHEAR WALL OPENINGS

NO SCALE




| STUD FASTENING SCHEDULE AT PANEL JOINTS | |
|---|---|
| SHEAR WALL TYPE | STUD FASTENING |
| SW6 | (2) 16d-SHORT @ 12" OC |
| SW4 | (2) 16d-SHORT @ 8" OC |
| SW3 | (2) 16d-SHORT @ 6" OC |
| SW2 | (2) 16d-SHORT @ 4" OC |
| 2SW4 | (2) 16d-SHORT @ 4" OC |
| 2SW3 | (2) 16d-SHORT @ 3" OC |

NOTES:
1. THIS DETAIL APPLIES WHERE DOUBLE 2x STUDS ARE USED AT SHEAR WALL PANEL JOINTS IN LIEU OF 3x FRAMING PER NOTE 11 ON G/S5.21

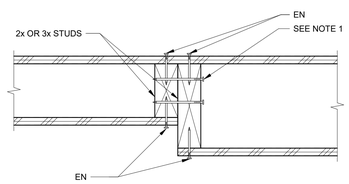



PLAN
SINGLE-SIDED

NOTES
1. AT 2x STUDS: FASTEN PER J/S5.21
AT 3x STUDS: (1) ROW SDS25500 @ 5" OC

## G WOOD SHEAR WALL SCHEDULE

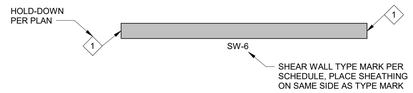
NO SCALE




PLAN
DOUBLE-SIDED

| WOOD SHEAR WALL SCHEDULE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ALL VALUES ARE BASED ON 2015 IBC AND SDPWS-15 FOR STRUCTURAL PANEL SHEAR WALL WITH FRAMING OF DOUGLAS FIR-LARCH | | | | | | | | | |
| TYPE MARK | NUMBER OF SIDES OF SHEATHING | STUD OR BLOCKING SIZE AT ADJOINING PANEL EDGES, SEE NOTE 11 | FASTENER SPACING | | BOTTOM OF WALL CONNECTION | | | TOP OF WALL CONNECTION | SEISMIC ALLOWABLE SHEAR (LBS/FT) |
| | | | WALL BOUNDARIES AND PANEL EDGES, SEE NOTE 9 | INTERMEDIATE STUDS, SEE NOTE 10 | AT CONCRETE | | AT WOOD FLOOR | | |
| | | | | | FIELD OF SLAB, SEE NOTE 8 | NEAR EDGE, SEE NOTE 8 | | | |
| SW-6 | 1 | 2x | 6" OC | 12" OC | 5/8"Ø AB @ 48" OC | 5/8"Ø AB @ 24" OC | SDS25600 @ 16" OC | SDS25600 @ 16" OC | 310 |
| SW-4 | 1 | 3x | 4" OC | 12" OC | 5/8"Ø AB @ 48" OC | 5/8"Ø AB @ 16" OC | SDS25600 @ 12" OC | SDS25600 @ 12" OC | 460 |
| SW-3 | 1 | 3x | 3" OC | 12" OC | 5/8"Ø AB @ 32" OC | 5/8"Ø AB @ 12" OC | SDS25600 @ 8" OC | SDS25600 @ 8" OC | 600 |
| SW-2 | 1 | 3x | 2" OC | 12" OC | 5/8"Ø AB @ 24" OC | 5/8"Ø AB @ 8" OC | SDS25600 @ 8" OC | SDS25600 @ 8" OC | 770 |
| 2SW-4 | 2 | 3x | 4" OC | 12" OC | 5/8"Ø AB @ 24" OC | 5/8"Ø AB @ 8" OC | SDS25600 @ 6" OC | SDS25600 @ 6" OC | 920 |
| 2SW-3 | 2 | 3x | 3" OC | 12" OC | 5/8"Ø AB @ 16" OC | - | SDS25600 @ 4" OC | SDS25600 @ 4" OC | 1,200 |

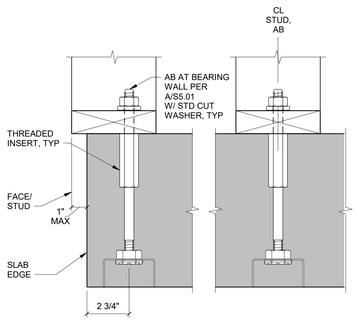
NOTES:
1. SHEATHING NAIL SIZE SHALL BE 0.148"Ø WITH 1-1/2" MINIMUM PENETRATION INTO FRAMING.
2. REFERENCE STRUCTURAL NOTES FOR SHEATHING TYPE AND THICKNESS.
3. INSTALL SHEATHING PANELS EITHER HORIZONTALLY OR VERTICALLY.
4. PLATE WASHERS FOR SILL BOLTS SHALL BE PER R/S5.01
5. WHERE NAIL SPACING IS LESS THAN 4" OC, STAGGER EDGE NAILING 1/2".
6. REFER TO A/S5.21 FOR SHEAR WALL NAILING DETAIL.
7. PRESSURE TREATED SILL PLATE SHALL BE 3x FRAMING.
8. USE NEAR EDGE SPACING WHEN ANCHOR BOLTS ARE WITHIN 12" OF A SLAB EDGE OR SHAFT OPENING, OR ARE PLACED IN A STEM WALL.
9. WALL BOUNDARIES INCLUDE TOP PLATE, BOTTOM PLATE, SILL PLATE, AND COMPRESSION STUDS, UNO.
10. FASTENER SPACING AT INTERMEDIATE MEMBERS SHALL BE 6" OC WHERE STUD SPACING IS 24" OC.
11. AT CONTRACTOR'S OPTION, (2) 2x STUDS MAY BE USED IN LIEU OF 3x STUD FRAMING. SEE J/S5.21 FOR DOUBLE STUD FASTENING.
12. WHERE SHEATHING IS APPLIED ON BOTH SIDES OF WALL, PANEL EDGE JOINTS SHALL BE STAGGERED SO THAT JOINTS ON THE OPPOSITE SIDES ARE NOT LOCATED ON THE SAME STUD.




SHEAR WALL LEGEND

## J STUD FASTENING AT SHEAR WALL PANEL JNTS

NO SCALE

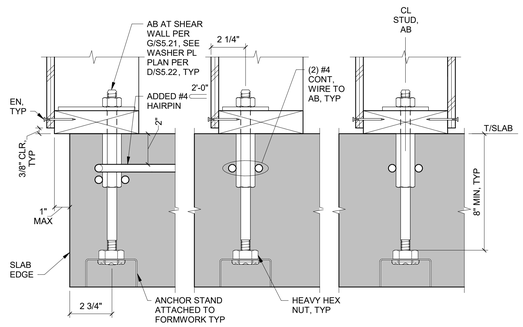



EXTERIOR
6x BEARING WALL

INTERIOR
BEARING WALL

## K TYP SHEAR WALL DEPTH CHANGE

NO SCALE




EXTERIOR
6x SHEAR WALL

INTERIOR
SHEAR WALL,
SINGLE SIDED

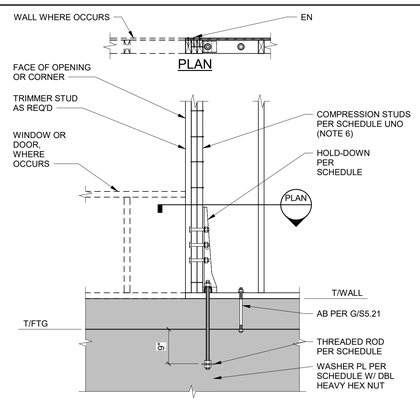
INTERIOR
SHEAR WALL,
DOUBLE SIDED

## N TYP ANCHOR BOLTS AT CONCRETE SLAB

NO SCALE

## Q TYP HOLD-DOWN AT FOUNDATION

NO SCALE




| HOLD-DOWN SCHEDULE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TYPE MARK | SIMPSON HOLD-DOWN | BOUNDARY STUDS | #, Ø OF BOLTS TO STUD | ANCHOR ROD DIAMETER (IN) | ANCHOR ROD EMBEDMENT | HOLD DOWN PLATE SIZE | | ALLOWABLE TENSION (KIPS) | REMARKS |
| | | | | | | THICKNESS (IN) | WIDTH, SQ (IN) | | |
| E | HD3B | (2) 2x | PER MFGR | 0.625 | 12" | 0.375 | 2.50 | 3.1k | SEE NOTE 3 |
| F | HD5B | (2) 2x | PER MFGR | 0.625 | 12" | 0.5 | 3.00 | 4.5k | SEE NOTE 3 |
| G | HD7B | (3) 2x4, (2) 2x6 | PER MFGR | 0.875 | 16" | 0.625 | 3.00 | 6.6k | SEE NOTE 4 |
| H | HD9B | (4) 2x4, (3) 2x6 | PER MFGR | 0.875 | 16" | 0.75 | 3.00 | 9.9k | SEE NOTE 5 |

NOTES:
1. STANDARD STRENGTH ROD/ASTM A36: Fu = 58,000 PSI.
2. PLATE STEEL SHALL BE ASTM A36: Fy = 36,000 PSI, Fu = 58,000 PSI.
3. IN LIEU OF ANCHOR ROD & HOLD DOWN PLATE PER SCHEDULE ABOVE, USE SIMPSON SB 5/8x24 ANCHOR BOLT ASSEMBLY. INSTALL AS REQUIRED BY MANUFACTURER.
4. IN LIEU OF ANCHOR ROD & HOLD DOWN PLATE PER SCHEDULE ABOVE, USE SIMPSON SB 7/8x24 ANCHOR BOLT ASSEMBLY. INSTALL AS REQUIRED BY MANUFACTURER.
5. SEE PLANS FOR WHERE LARGER POST MAY BE REQUIRED.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# The Chehalis Tribe Chehalis Elders Center

NIEDERMAN RD
OAKVILLE, WA 98568

BID DOCUMENTS

ISSUE DATE: APRIL 16, 2021

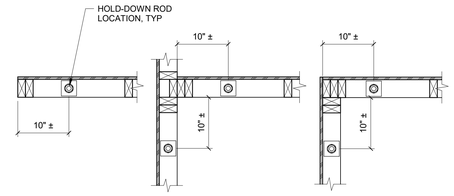
| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:

SHEAR WALL SCHEDULE & DETAILS

SCALE: AS INDICATED
DRAWN: Author
CHECKED: Checker
KPFF PROJECT NO: 2000416

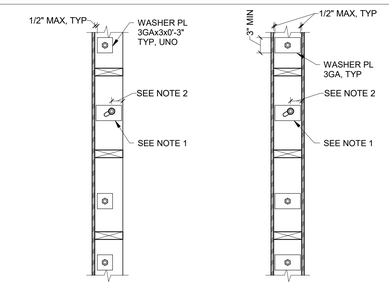
SHEET:
S5.21




END OF STRAIGHT WALL | WALL INTERSECTION | CORNER INTERSECTION

NOTES:
1. COORDINATE WALL TYPE AND FRAMING LAYOUT BEFORE LOCATING HOLD-DOWNS IN CONCRETE.
2. VERIFY LOCATION OF RODS WITH REQUIREMENTS FROM HOLD-DOWN SUPPLIER.

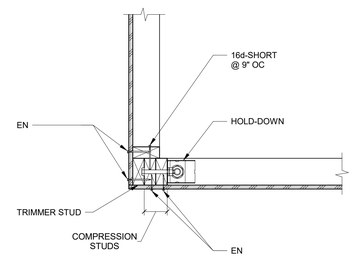
## C TYP HOLD-DOWN PLAN LOCATIONS
NO SCALE



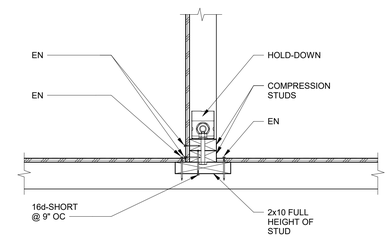

WASHER PLATE PLAN SINGLE-SIDED | WASHER PLATE PLAN DOUBLE-SIDED

NOTES:
1. WASHER PLATES LARGER THAN 3"x3" MAY BE DIAGONALLY SLOTTED WITH A WIDTH UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND SLOT LENGTH NOT TO EXCEED 1-3/4", PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE WASHER PLATE AND THE NUT.
2. BOLTS WITH DISTANCES TO EDGE OF SILL PLATE LESS THAN 1" ARE CONSIDERED INEFFECTIVE. NOTIFY THE STRUCTURAL ENGINEER. A REPLACEMENT BOLT WILL BE REQUIRED.

## D TYP SHEAR WALL WASHER PLATES
NO SCALE

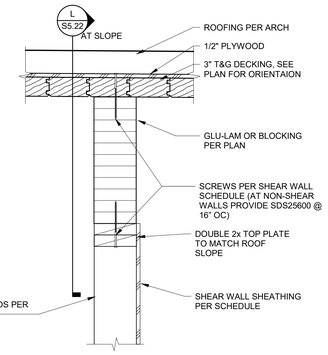



CORNER



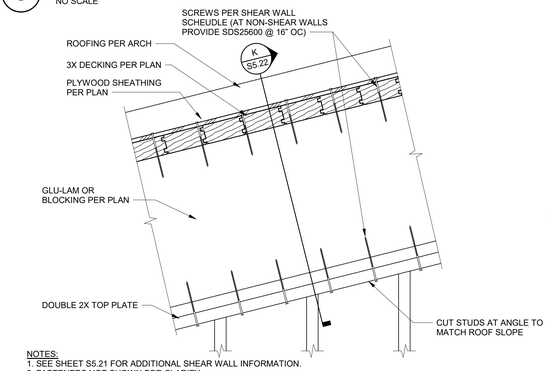

TEE INTERSECTION

## G TYP COMPRESSION STUD INTERSECTION
NO SCALE



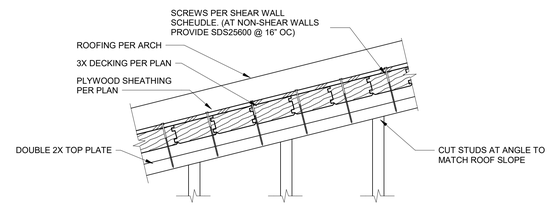

NOTES:
1. SEE SHEET S5.21 FOR ADDITIONAL SHEAR WALL INFORMATION.
2. FASTENERS NOT SHOWN FOR CLARITY

## K T.O.W. BELOW BEAM OR BLOCKING
1 1/2" = 1'-0"



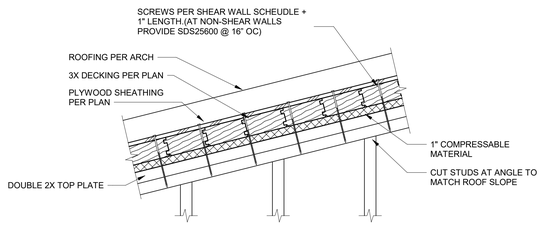

NOTES:
1. SEE SHEET S5.21 FOR ADDITIONAL SHEAR WALL INFORMATION.
2. FASTENERS NOT SHOWN FOR CLARITY

## L TOP OF WALL PARALLEL TO SLOPED ROOF
1 1/2" = 1'-0"



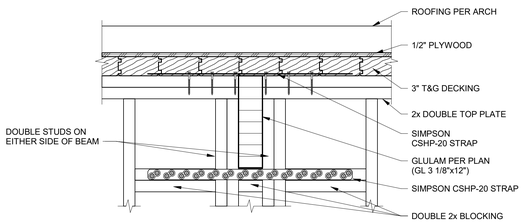

NOTES:
1. SEE SHEE S5.21 FOR ADDITIONAL SHEAR WALL INFORMATION.
2. FASTENERS NOT SHOWN FOR CLARITY

## M TOP OF WALL PARALLEL TO SLOPED ROOF
1 1/2" = 1'-0"

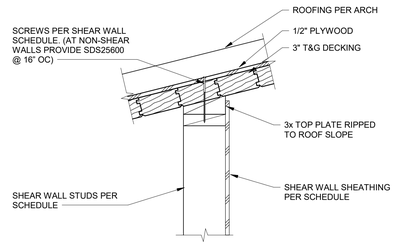



NOTES:
1. SEE SHEE S5.21 FOR ADDITIONAL SHEAR WALL INFORMATION.
2. FASTENERS NOT SHOWN FOR CLARITY

## P TOP OF WALL AT COMPRESSABLE MATERIAL
1 1/2" = 1'-0"




## Q TOP CHORD SPLICE AT BEAM
1 1/2" = 1'-0"




NOTES:
1. SEE SHEE S5.21 FOR ADDITIONAL SHEAR WALL INFORMATION.
2. FASTENERS NOT SHOWN FOR CLARITY

## R T.O.W. PERPENDICULAR TO SLOPED ROOF
1 1/2" = 1'-0"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THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: APRIL 16, 2021

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|---|---|---|
| | | |

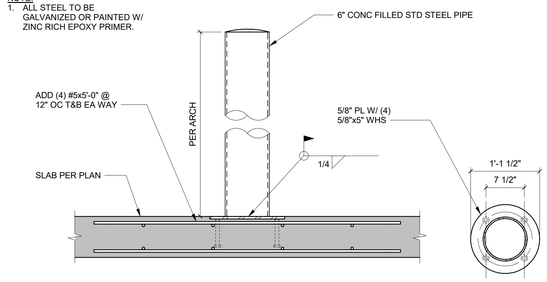
CONTENTS:

**SHEAR WALL DETAILS**

| | |
|---|---|
| SCALE: | AS INDICATED |
| DRAWN: | Author |
| CHECKED: | Checker |
| KPFF PROJECT NO: | 2000416 |

SHEET:
**S5.22**

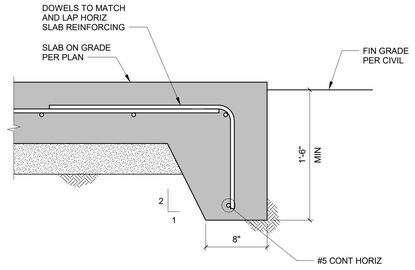
NOTE:
1. ALL STEEL TO BE GALVANIZED OR PAINTED W/ ZINC RICH EPOXY PRIMER.




ELEVATION PLAN

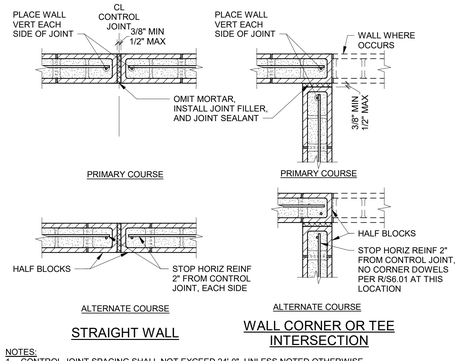
## C TYP BOLLARD DETAIL AT SLAB ON GRADE

1" = 1'-0"




## G ENCLOSURE THICKENED SLAB EDGE

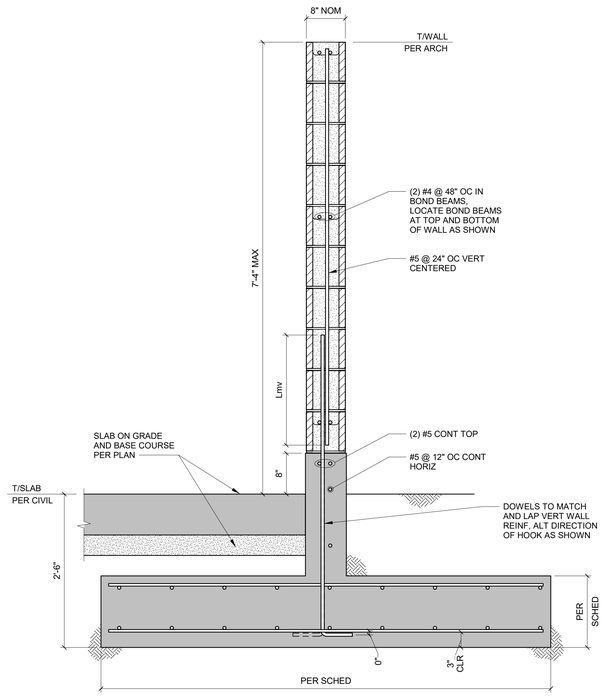
1 1/2" = 1'-0"




NOTES:
1. CONTROL JOINT SPACING SHALL NOT EXCEED 24'-0", UNLESS NOTED OTHERWISE.
2. SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.

## H TYP MASONRY CONTROL JOINT

NO SCALE




NOTES:
1. WALL TO BE SOLID-GROUTED.

## Q ENCLOSURE WALL SECTION

1" = 1'-0"

$f'_m$ = 2,000 PSI
$f_y$ = 60,000 PSI

| 8" NOMINAL WALL THICKNESS | | | |
|---|---|---|---|
| BAR SIZE | $L_{mv}$ | $L_{mh}$ | |
| | | ONE CURTAIN | TWO CURTAINS |
| #3 | 12 | 12 | 12 |
| #4 | 12 | 16 | 23 |
| #5 | 19 | 26 | 39 |
| #6 | 38 | 51 | 78 |
| #7 | 52 | - | - |
| #8 | 80 | - | - |

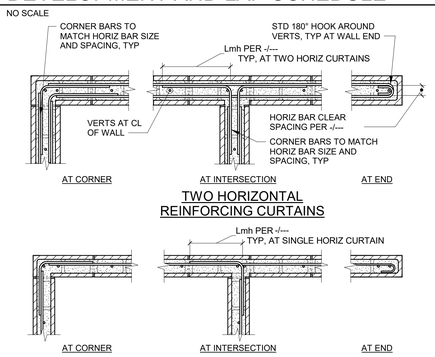
NOTES:
1. USE THE LENGTHS IN THIS SCHEDULE, UNLESS NOTED OTHERWISE.

ABBREVIATIONS

Lmv = VERTICAL BAR LAP SPLICE AND DEVELOPMENT LENGTH (IN)
Lmh = HORIZONTAL BAR LAP SPLICE LENGTH (IN)

## M DEVELOPMENT AND LAP SCHEDULE

NO SCALE




## R TYP CMU SHEAR WALL REINFORCEMENT - PLAN

NO SCALE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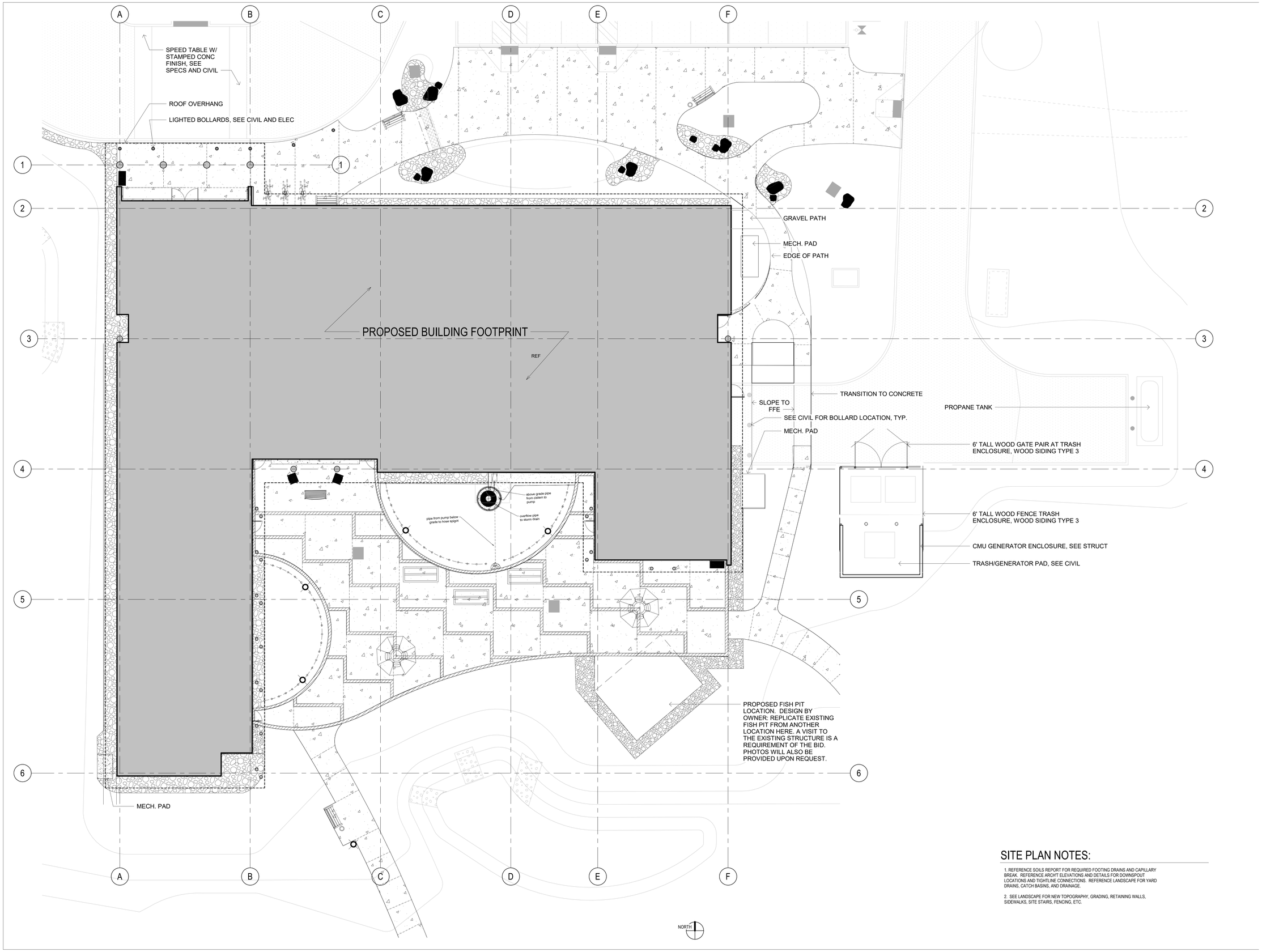
|---|---|---|
| | | |

CONTENTS:

**ENCLOSURE SECTIONS AND DETAILS**

SCALE: **AS INDICATED**
DRAWN: **Author**
CHECKED: **Checker**
KPFF PROJECT NO: 2000416

SHEET:
**S6.01**




## SITE PLAN NOTES:

1. REFERENCE SOILS REPORT FOR REQUIRED FOOTING DRAINS AND CAPILLARY BREAK. REFERENCE ARCH'T ELEVATIONS AND DETAILS FOR DOWNSPOUT LOCATIONS AND TIGHTLINE CONNECTIONS. REFERENCE LANDSCAPE FOR YARD DRAINS, CATCH BASINS, AND DRAINAGE.

2. SEE LANDSCAPE FOR NEW TOPOGRAPHY, GRADING, RETAINING WALLS, SIDEWALKS, SITE STAIRS, FENCING, ETC.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|---|---|---|
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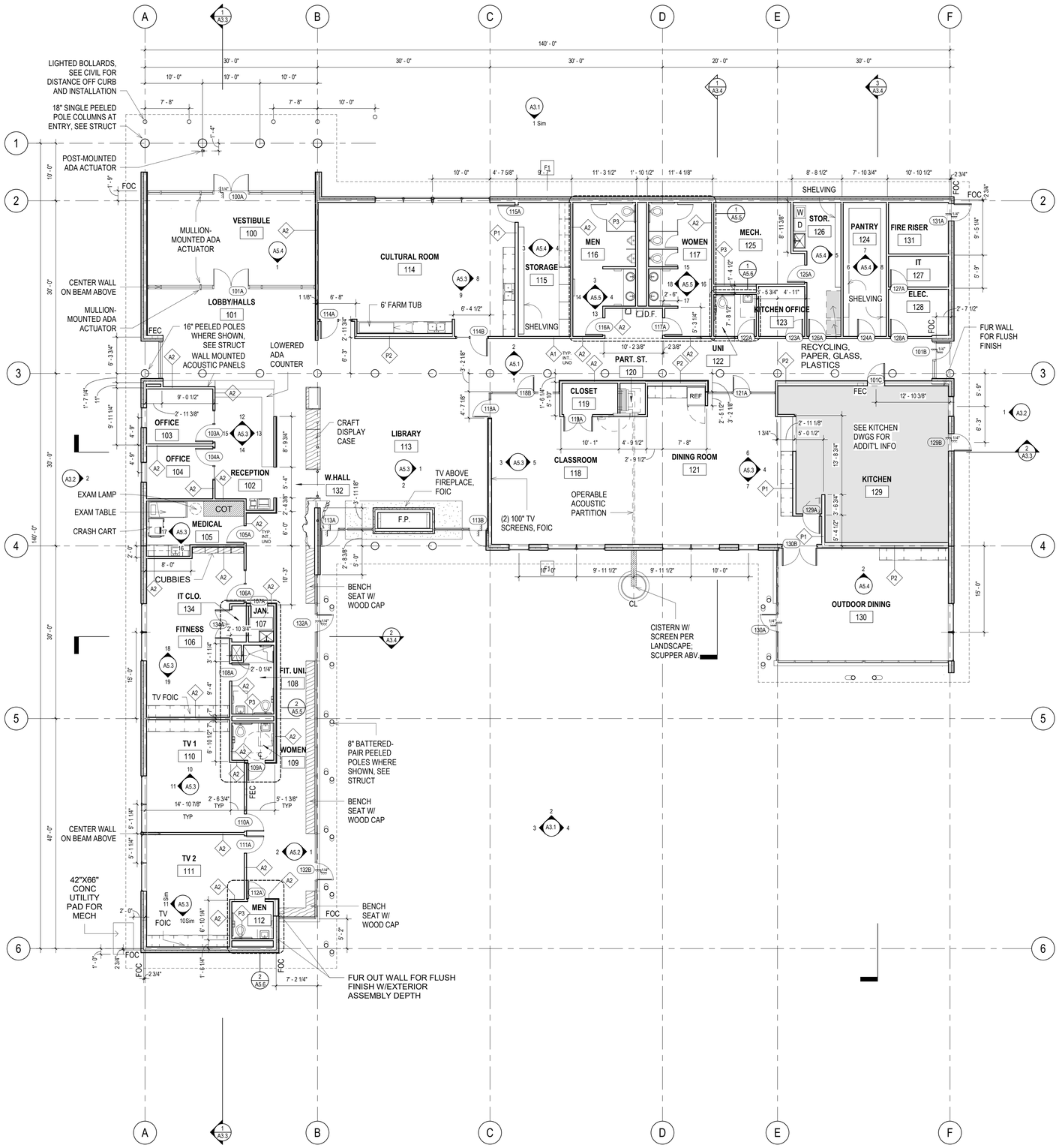
CONTENTS:

**SITE PLAN**

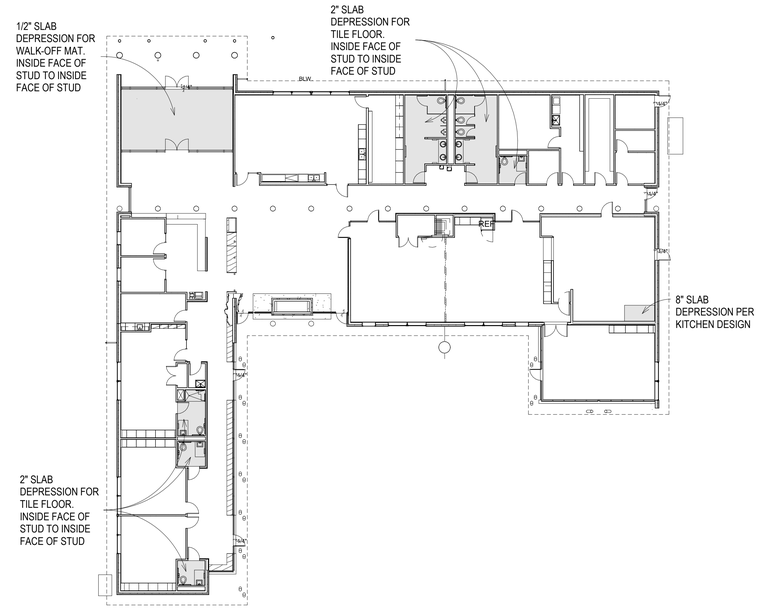
| | |
|---|---|
| SCALE: | As indicated |
| DRAWN: | AW |
| CHECKED: | PRC |
| PROJECT NO: | 2020006.100 |

SHEET:

**A1.1**




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




2 SLAB PLAN
1/16" = 1'-0"

## PLAN NOTES:

1. REFER TO T1.0 FOR GENERAL NOTES.
2. SEE CIVIL & LANDSCAPE DRAWINGS FOR EXTERIOR OF BUILDING CONDITIONS BEYOND THE BUILDING PERIMETER.
3. SEE A7.1 FOR TYPICAL INTERIOR PARTITIONS. ALL PARTITIONS ARE TYPE 'A1', U.N.O.
4. SEE BUILDING SECTIONS FOR TYPICAL WALL, FLOOR, AND SLAB BUILDING ASSEMBLIES, U.O.N.
5. SEE BUILDING ELEVATIONS FOR WINDOW TYPES AND DESCRIPTIONS
6. REFER TO SCHEDULE SHEETS FOR ADDITIONAL INFORMATION.
7. NOT ALL REQUIRED ACCESS PANELS HAVE BEEN SHOWN. PROVIDE ACCESS PANELS AS REQUIRED. COORDINATE THEIR LOCATION WITH ALL MECHANICAL AND ELECTRICAL ITEMS LOCATED IN CEILINGS AND PAINT TO MATCH ADJACENT SURFACES.
8. SEE FINISH PLANS FOR CONTROL JOINT AND EXPANSION JOINT LOCATIONS AT EXPOSED TO VIEW CONCRETE FLOORS.
9. ROOMS WITH CAPACITY GREATER THAN 50 OCCUPANTS SHALL HAVE CLEARLY VISIBLE SIGNAGE INDICATING OCCUPANT CAPACITY FOR THAT ROOM.
10. AT LOCATIONS WHERE SHEAR WALLS OCCUR ALONG A PORTION OF A WALL, CONTRACTOR IS TO PROVIDE ADDITIONAL PLYWOOD FOR NON-SHEAR LENGTH OF WALL TO NEAREST CORNER SO AS TO PROVIDE A SMOOTH AND FLUSH SURFACE.

## LEGEND

ROOM NAME
101
ROOM NAME
ROOM NUMBER

DIMENSION POINT OR ELEVATION

F.E.C.
FIRE EXTINGUISHER RECESSED MOUNTED

EXTERIOR ELEVATION — 1 Ref — A1.1 — DRAWING # SHEET #

INTERIOR ELEVATION — 1 Ref — A1.1 — DRAWING # SHEET #

BUILDING SECTION — 1 — A1.1 — DRAWING # SHEET #

DETAILS — 1 — A1.1 — DETAIL # SHEET #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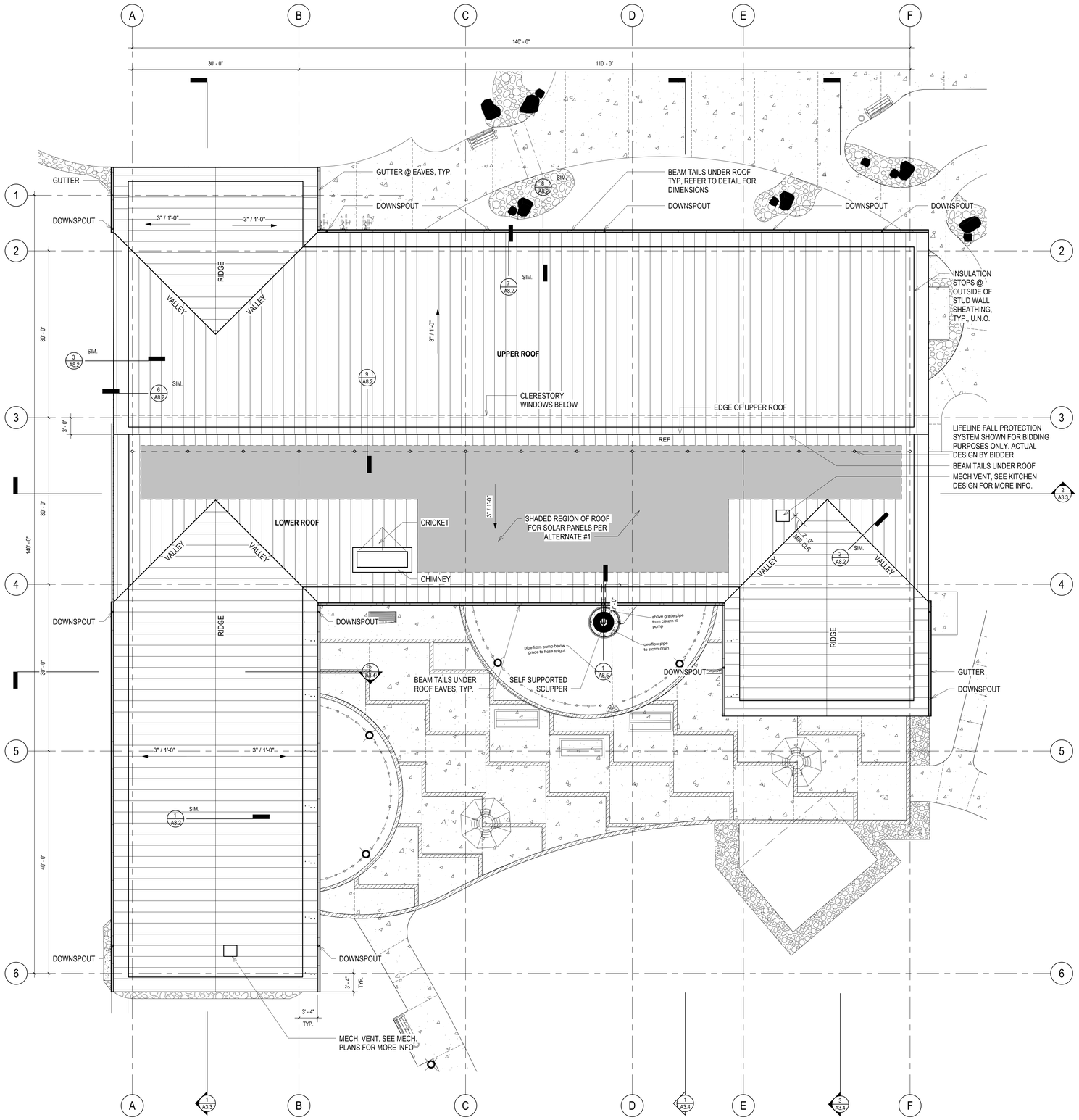
CONTENTS:
**1st FLOOR PLAN**

SCALE: **As indicated**
DRAWN: **AW**
CHECKED: **PRC**
PROJECT NO: 2020006.100

SHEET:
**A2.1**




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

## ROOF STORMWATER CONVEYANCE CALCULATIONS

THE FOLLOWING CALCULATIONS ARE BASED ON THE WORST CASE SCENARIO, FOR THE LARGEST ROOF TRIBUTARY AREA SERVED BY ONE DRAIN:

ROOF STRUCTURE IS SLOPED AT 3" PER FOOT
RAINFALL INTENSITY FOR THE SITE IS 3.3 IN/HR
THE CALCULATED LOWER ROOF AREA SHOWN BETWEEN GRIDLINES B & E IS 2,389 SF
THERE IS ONE DOWNSPOUT PROVIDED ALONG THE SOUTHERN ROOF EDGE
THEREFORE, THE CALCULATIONS BELOW ARE FOR A 2,389 SF ROOF AREA AND A 100 YEARS STORM IN THE SEATTLE, WASHINGTON AREA W/ 2,389 SF OF ROOF AREA DRAINING PER DOWNSPOUT

DOWNSPOUTS
THE ROOF DESIGN AREA IS 2,389 SF
GUTTER IN LINEAL FT: 73'-4"
GUTTER LENGTH SERVING SINGLE DOWNSPOUT (FT.): 36'-8" LF
2,389 SF PER DOWNSPOUT
THEREFORE, PER SMACNA, THE MIN CROSS SECTIONAL AREA PER DS = 6.64 SQ-INCH
PROPOSED DOWNSPOUTS ARE CIRCULAR 3" DIAMETER (7 SQ-INCH AREA)
7 SQ-INCHES > 6.64 SQ-INCHES

GUTTER
GUTTER IN LINEAL FT: 73'-4"
GUTTER LENGTH SERVING SINGLE DS (FT.): 36'-8"
M (DEPTH TO WIDTH RATIO): 0.75
GUTTER SLOPE: LEVEL
GUTTER SHAPE: CIRCULAR
MIN. GUTTER WIDTH (IN.): 5, PROPOSED GUTTER WIDTH (IN.): 5, SEE BELOW
MIN. GUTTER DEPTH (IN.): 4, PROPOSED GUTTER WIDTH (IN.): 4, SEE BELOW

## ROOF PLAN NOTES:

1. FOR ROOF TYPE ASSEMBLIES - SEE BUILDING SECTIONS

2. RIGID INSULATION ABOVE ALL INTERIOR SPACES, SEE ROOF PLAN

3. SEE EXTERIOR ELEVATIONS FOR ADDITIONAL INFO ON DOWNSPOUT LOCATIONS.

4. DRAWINGS INDICATE GENERAL & TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER, TYPICAL DETAILS SHALL APPLY.

5. ROOF PIPING AND VENT PENETRATION LOCATIONS ARE SHOWN FOR CONTRACTOR COORDINATION AND FOR DESIGN INTENT. FOR ACTUAL PENETRATION QUANTITIES REQUIRED, SEE MECH, PLUMBING, AND KITCHEN SHEETS

6. ELECTRICAL CONDUIT IS RUN WITHIN THE RIGID INSULATION LAYER. ROOFING CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH ELECTRICAL DRAWINGS FOR EXTENTS.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# The Chehalis Tribe Chehalis Elders Center

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THE CHEHALIS TRIBE

**BID DOCUMENTS**

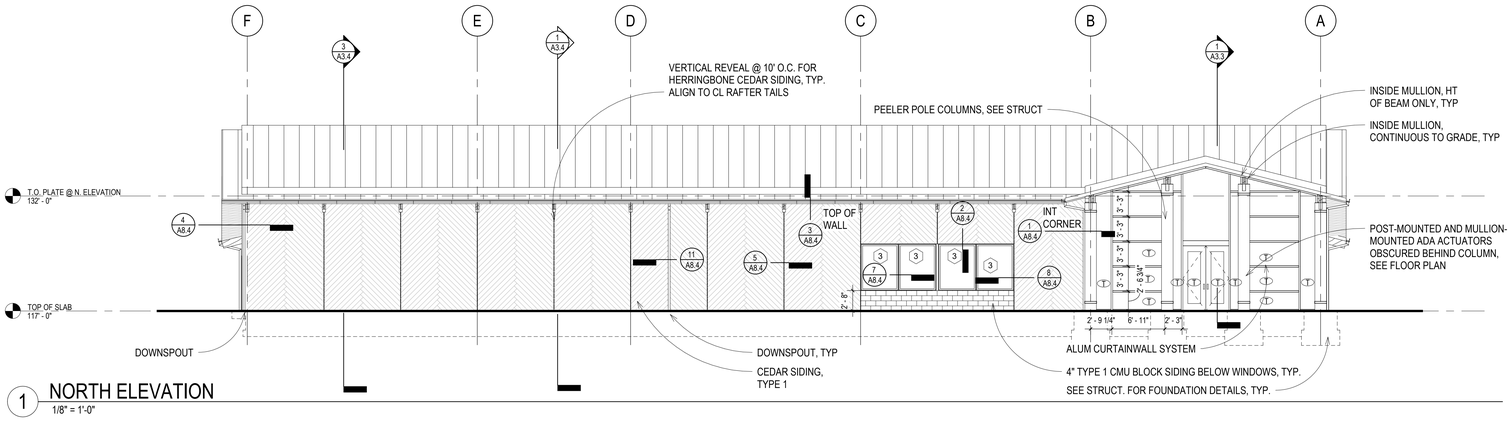
ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

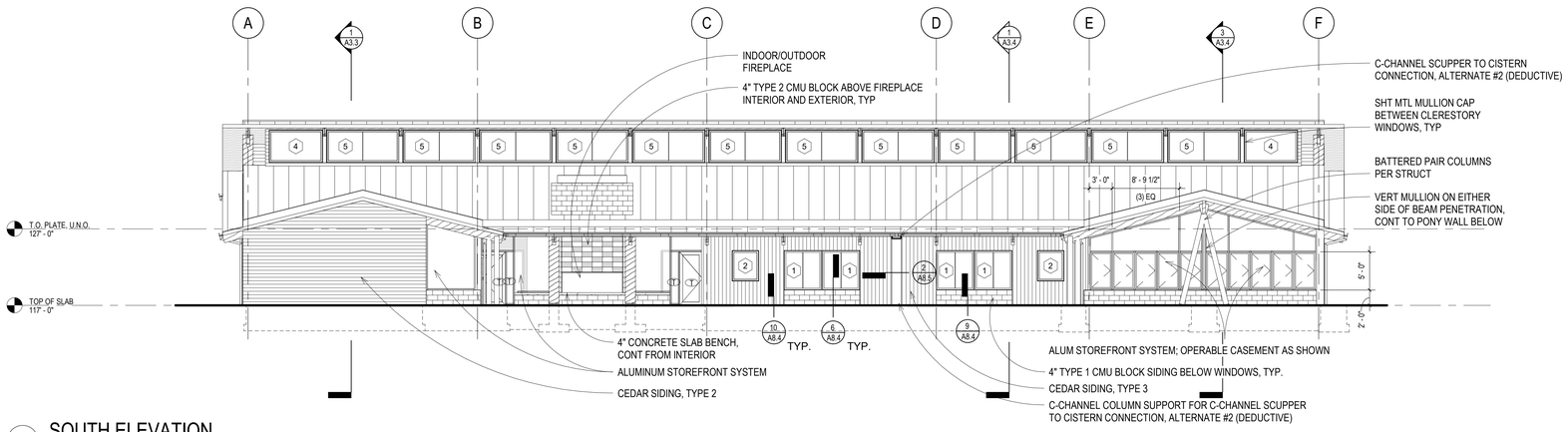
CONTENTS:
**ROOF PLAN**

| | |
|---|---|
| SCALE: | As indicated |
| DRAWN: | AW |
| CHECKED: | PRC |
| PROJECT NO: | 2020006.100 |

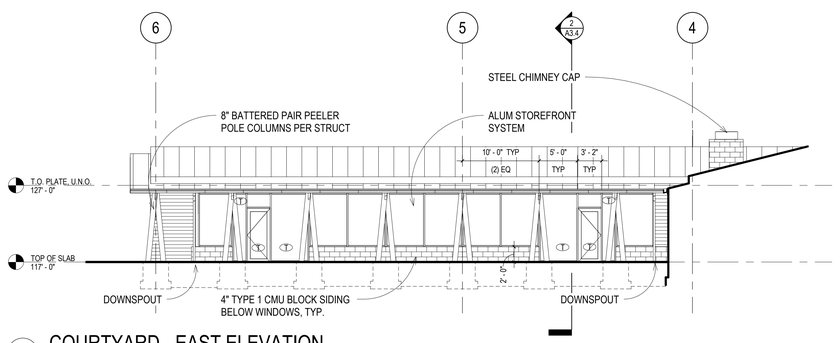
SHEET:
**A2.2**



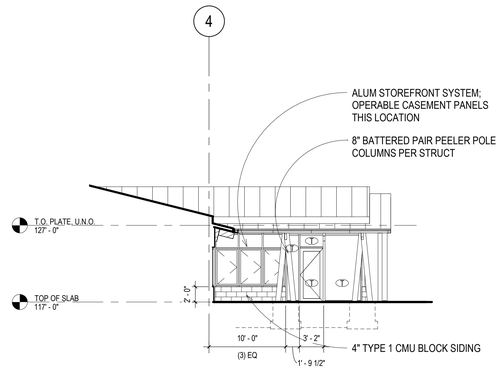

1 NORTH ELEVATION
1/8" = 1'-0"




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




3 COURTYARD - EAST ELEVATION
1/8" = 1'-0"




4 COURTYARD - WEST ELEVATION
1/8" = 1'-0"

## GLAZING TO WALL RATIO

| | | |
|---|---|---|
| GLAZING TOTAL: | 2,581 SF | 30% |
| WALL TOTAL: | 6,029 SF | 70% |
| GRAND TOTAL: | 8,610 SF | 100% |

## ELEVATION LEGEND

CLEAR, UN-TEMPERED GLASS

TEMPERED GLASS

## ELEVATION NOTES:

1. REFER TO T1.0 FOR PROJECT GENERAL NOTES.
2. REFER TO A8.1 FOR SEALING OF WALL OPENINGS & PENETRATIONS
3. SEE BUILDING SECTIONS FOR EXTERIOR WALL AND ROOF ASSEMBLIES
4. REFER TO ROOF PLANS FOR ROOF DETAIL CALLOUTS AND DESCRIPTIONS
5. DRAWINGS INDICATE GENERAL & TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER, TYPICAL DETAILS SHALL APPLY.
6. SEE A10.1 FOR FINISHES ON EXTERIOR BUILDING COMPONENTS SCHEDULE.
7. STOREFRONT AND CURTAINWALL ALUMINUM WINDOW SYSTEMS NOT INCLUDED IN WINDOW SCHEDULE. REFER TO ELEVATIONS.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ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:

**EXTERIOR ELEVATIONS**

| | |
|---|---|
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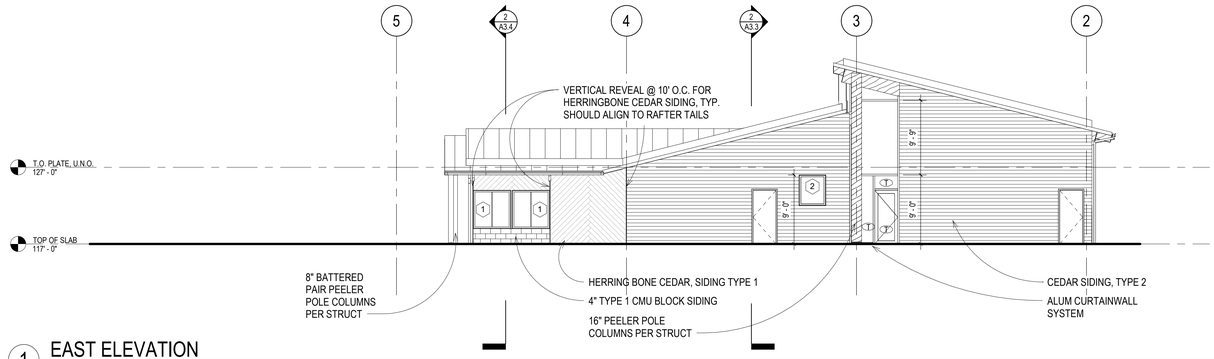
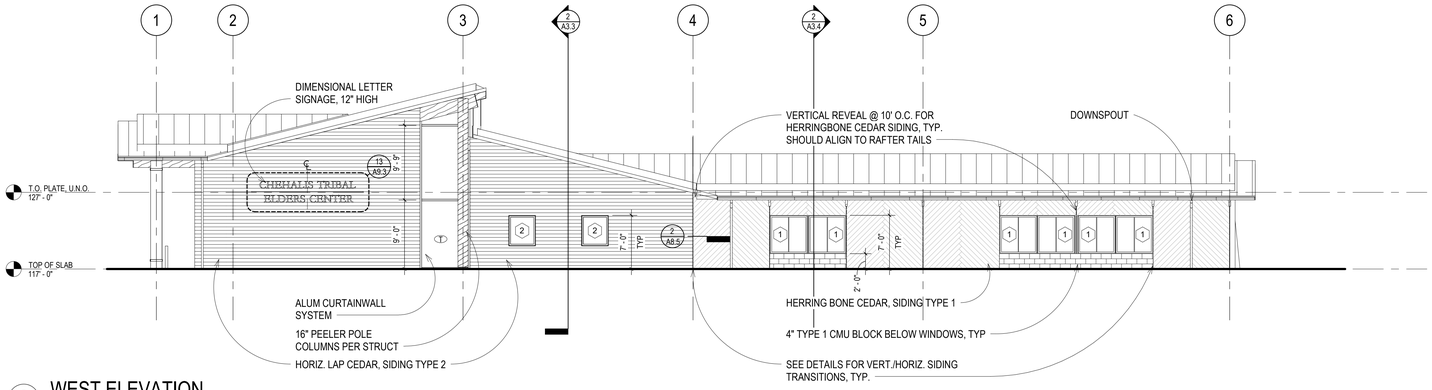
| CHECKED: | PRC |
| PROJECT NO: | 2020006.100 |

SHEET:

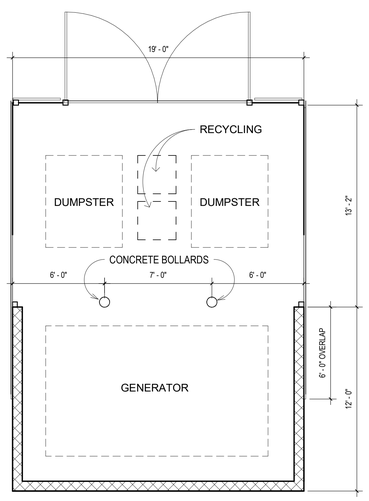
**A3.1**



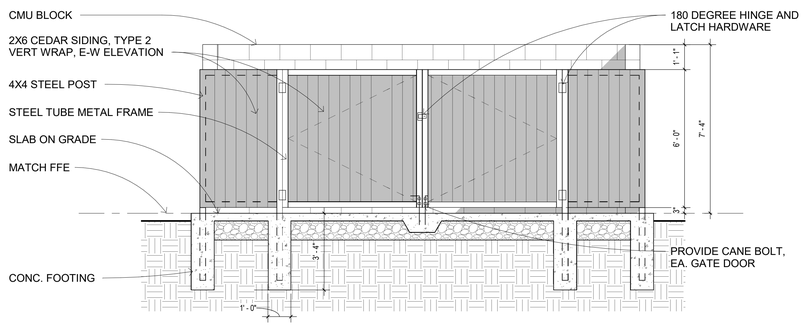

1 EAST ELEVATION
1/8" = 1'-0"



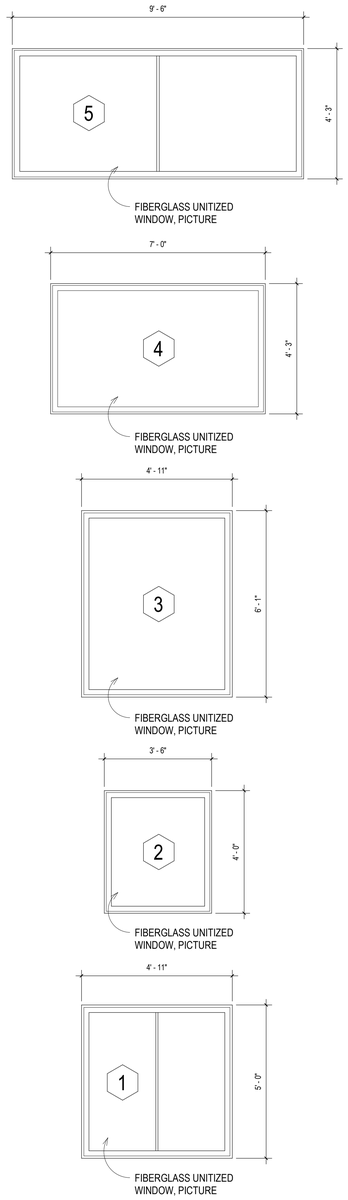

2 WEST ELEVATION
1/8" = 1'-0"




4 TRASH AND GENERATOR ENCLOSURE
1/4" = 1'-0"




5 TRASH ENCLOSURE NORTH
3/8" = 1'-0"




3 WINDOW SCHEDULE
1/2" = 1'-0"

## ELEVATION LEGEND

CLEAR, UN-TEMPERED GLASS

TEMPERED GLASS

## GLAZING TO WALL RATIO

| | | |
|---|---|---|
| GLAZING TOTAL: | 2,581 SF | 30% |
| WALL TOTAL: | 6,029 SF | 70% |
| GRAND TOTAL: | 8,610 SF | 100% |

## ELEVATION NOTES:

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2. REFER TO A8.1 FOR SEALING OF WALL OPENINGS & PENETRATIONS
3. SEE BUILDING SECTIONS FOR EXTERIOR WALL AND ROOF ASSEMBLIES
4. REFER TO ROOF PLANS FOR ROOF DETAIL CALLOUTS AND DESCRIPTIONS
5. DRAWINGS INDICATE GENERAL & TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER, TYPICAL DETAILS SHALL APPLY.
6. SEE A10.1 FOR FINISHES ON EXTERIOR BUILDING COMPONENTS SCHEDULE.
7. STOREFRONT AND CURTAINWALL ALUMINUM WINDOW SYSTEMS NOT INCLUDED IN WINDOW SCHEDULE. REFER TO ELEVATIONS.


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ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:

**EXTERIOR ELEVATIONS**

| | |
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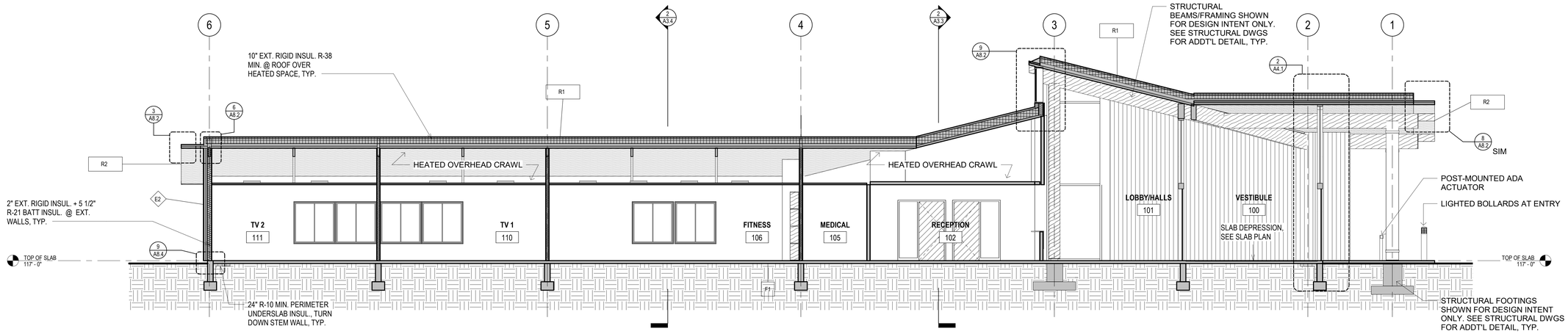
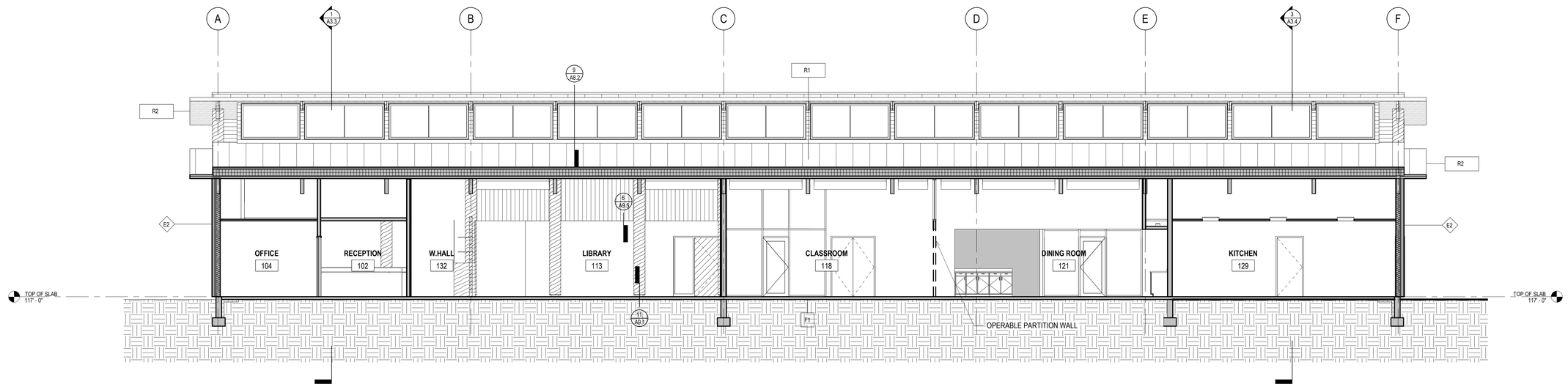
SHEET:

**A3.2**

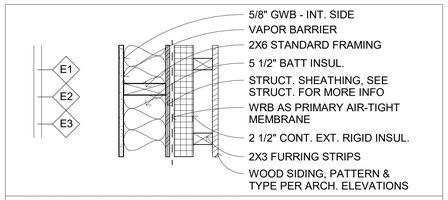



1 N-S FULL BUILIDNG SECTION
3/16" = 1'-0"

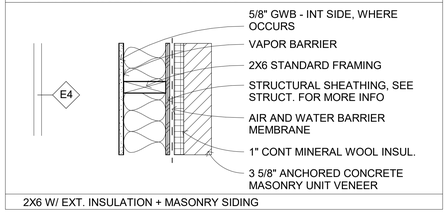



2 E-W FULL BUILDING SECTION
3/16" = 1'-0"

## TYPICAL EXTERIOR WALL ASSEMBLIES

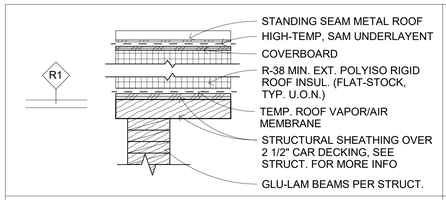



2X6 W/ EXT. INSULATION + WOOD SIDING

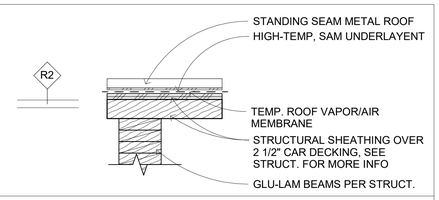



2X6 W/ EXT. INSULATION + MASONRY SIDING

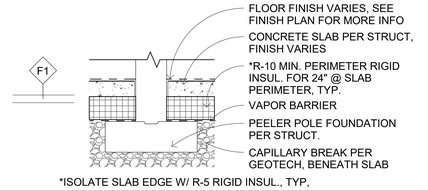
## TYPICAL ROOF AND FLOOR ASSEMBLIES




ROOF - METAL W/ RIGID INSULATION + CAR DECKING




ROOF - METAL WITHOUT RIGID INSULATION + CAR DECKING




*ISOLATE SLAB EDGE W/ R-5 RIGID INSUL., TYP,

FLOOR - SLAB ON GRADE

## SECTION NOTES:

1. REFER TO A1.1 FOR GENERAL NOTES
2. SEE BUILDING ELEVATIONS FOR WALL EXTERIOR CLADDING AND INTERIOR WALL FINISH LOCATIONS.
3. REFER TO ROOF PLANS FOR ROOF DETAIL, CALLOUT, AND DESCRIPTIONS.
4. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER, TYPICAL DETAILS SHALL APPLY.
5. SEE A8.1 FOR TYPICAL WALL PENETRATION WATERPROOFING DETAILS.
6. SEE CODE SHEET FOR WINDOW, DOOR, AND SKYLIGHT U-VALUE & SHGC MIN. REQUIREMENTS.
7. IN ADDITION TO THOSE LISTED ON THE BUILDING SECTIONS, SEE CODE SHEET FOR R-VALUE MINIMUM REQUIREMENTS
8. PLATE HEIGHT FOR FRAMING INDICATED AT INTERIOR STRUCTURAL STUD AND ROOF BEAM CONNECTION.
9. STRUCTURAL ELEMENTS SHOWN FOR DESIGN INTENT ONLY, SEE STRUCTURAL DWGS. FOR ADDITIONAL INFO.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**BID DOCUMENTS**

ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:

**BUILDING SECTIONS**

| | |
|---|---|
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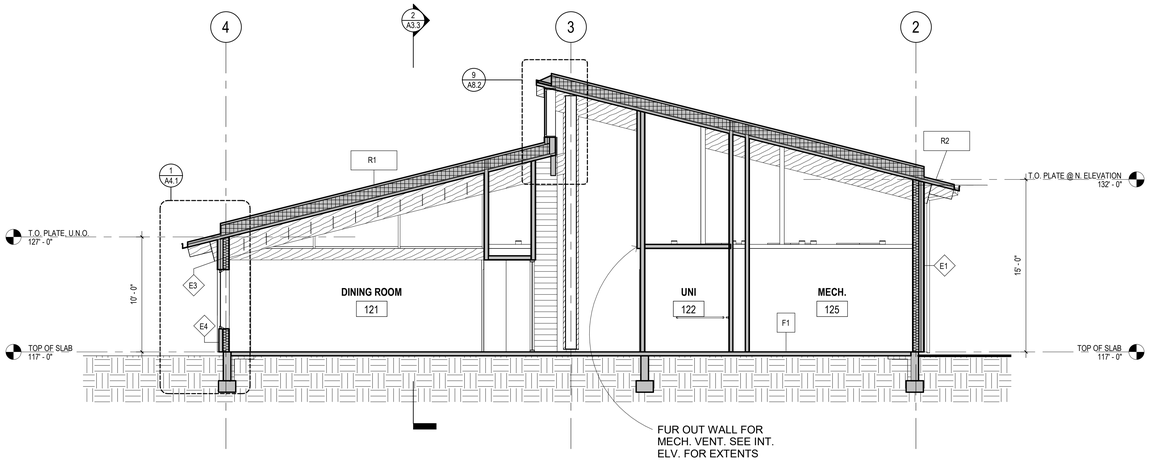
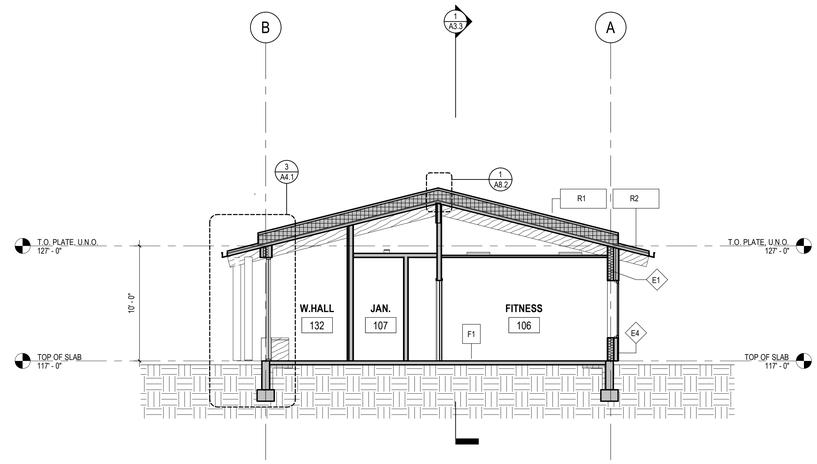
| PROJECT NO: | 2020006.100 |

SHEET:

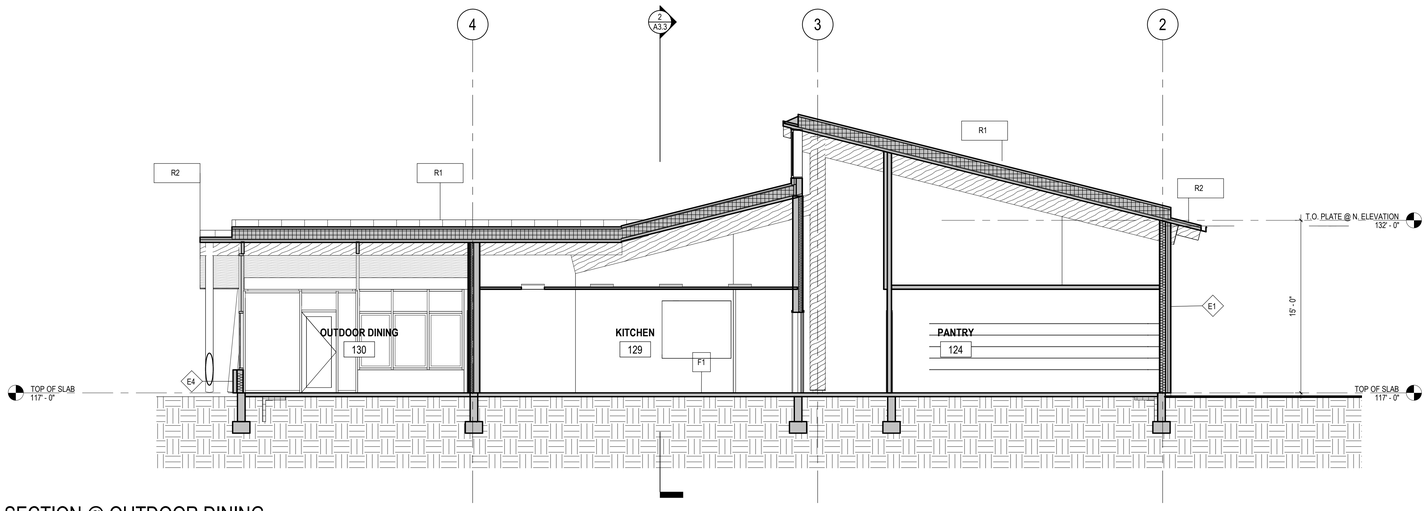
**A3.3**




1 N-S SECTION @ DINING ROOM
3/16" = 1'-0"

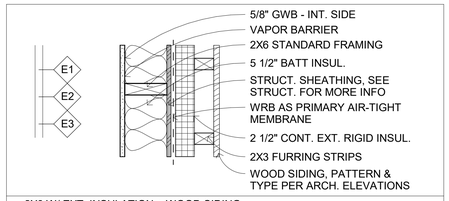



2 E-W SECTION @ FITNESS ROOM
3/16" = 1'-0"

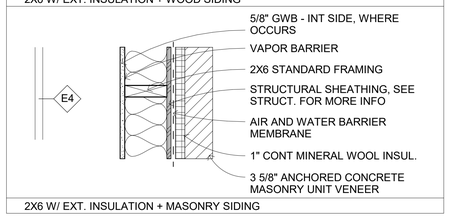



3 SECTION @ OUTDOOR DINING
3/16" = 1'-0"

## TYPICAL EXTERIOR WALL ASSEMBLIES

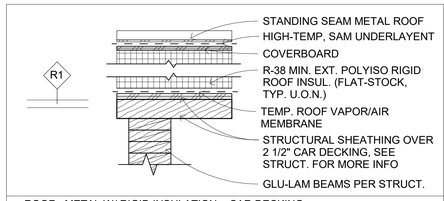



2X6 W/ EXT. INSULATION + WOOD SIDING

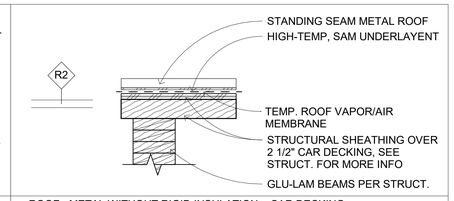



2X6 W/ EXT. INSULATION + MASONRY SIDING

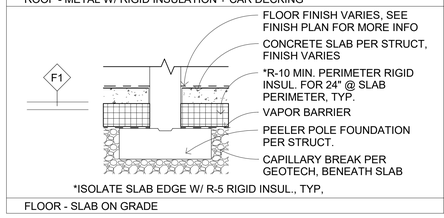
## TYPICAL ROOF AND FLOOR ASSEMBLIES




ROOF - METAL W/ RIGID INSULATION + CAR DECKING




ROOF - METAL WITHOUT RIGID INSULATION + CAR DECKING




*ISOLATE SLAB EDGE W/ R-5 RIGID INSUL., TYP,

FLOOR - SLAB ON GRADE

## SECTION NOTES:

1. REFER TO A1.1 FOR GENERAL NOTES
2. SEE BUILDING ELEVATIONS FOR WALL EXTERIOR CLADDING AND INTERIOR WALL FINISH LOCATIONS.
3. REFER TO ROOF PLANS FOR ROOF DETAIL, CALLOUT, AND DESCRIPTIONS.
4. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER, TYPICAL DETAILS SHALL APPLY.
5. SEE A8.1 FOR TYPICAL WALL PENETRATION WATERPROOFING DETAILS.
6. SEE CODE SHEET FOR WINDOW, DOOR, AND SKYLIGHT U-VALUE & SHGC MIN. REQUIREMENTS.
7. IN ADDITION TO THOSE LISTED ON THE BUILDING SECTIONS, SEE CODE SHEET FOR R-VALUE MINIMUM REQUIREMENTS
8. PLATE HEIGHT FOR FRAMING INDICATED AT INTERIOR STRUCTURAL STUD AND ROOF BEAM CONNECTION.
9. STRUCTURAL ELEMENTS SHOWN FOR DESIGN INTENT ONLY, SEE STRUCTURAL DWGS. FOR ADDITIONAL INFO.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ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:

**BUILDING SECTIONS**

| | |
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| CHECKED: | PRC |
| PROJECT NO: | 20200006.100 |

SHEET:

**A3.4**

## WALL SECTION NOTES:

1. REFER TO BUILDING SECTIONS FOR WALL, ROOF AND FLOOR ASSEMBLIES.

2. REFER TO DETAILS FOR COMPLETE DESCRIPTION. DETAILS ON WALL SECTIONS ARE DIAGRAMMATIC.

3. WALL SECTIONS SHOW FOOTINGS BEARING ON UNDISTURBED SOIL. THIS IS ONLY ALLOWABLE IF SOIL AT BOTTOM OF EXCAVATION MEETS MINIMUM BEARING CAPACITIES, OTHERWISE FOOTINGS MAY BE RESTING ON IMPORTED STRUCTURAL FILL. SEE CIVIL AND GEOTECHNICAL REPORT FOR REQUIREMENTS.


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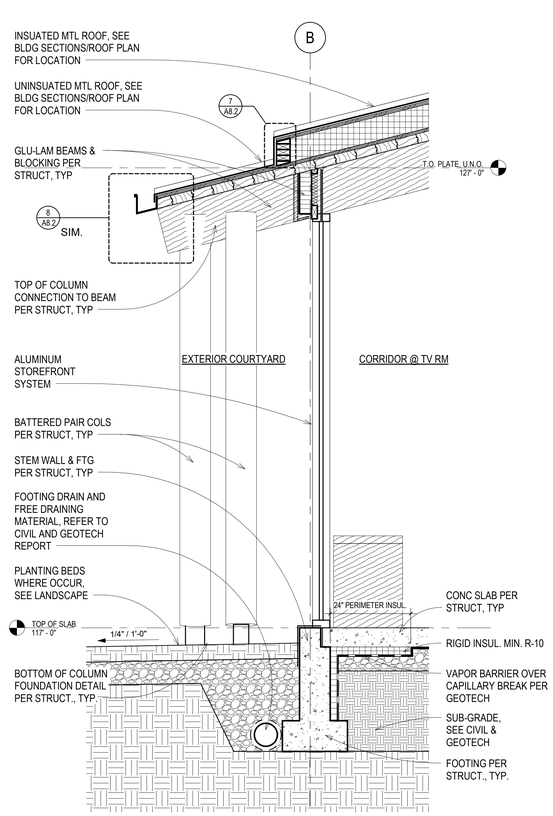
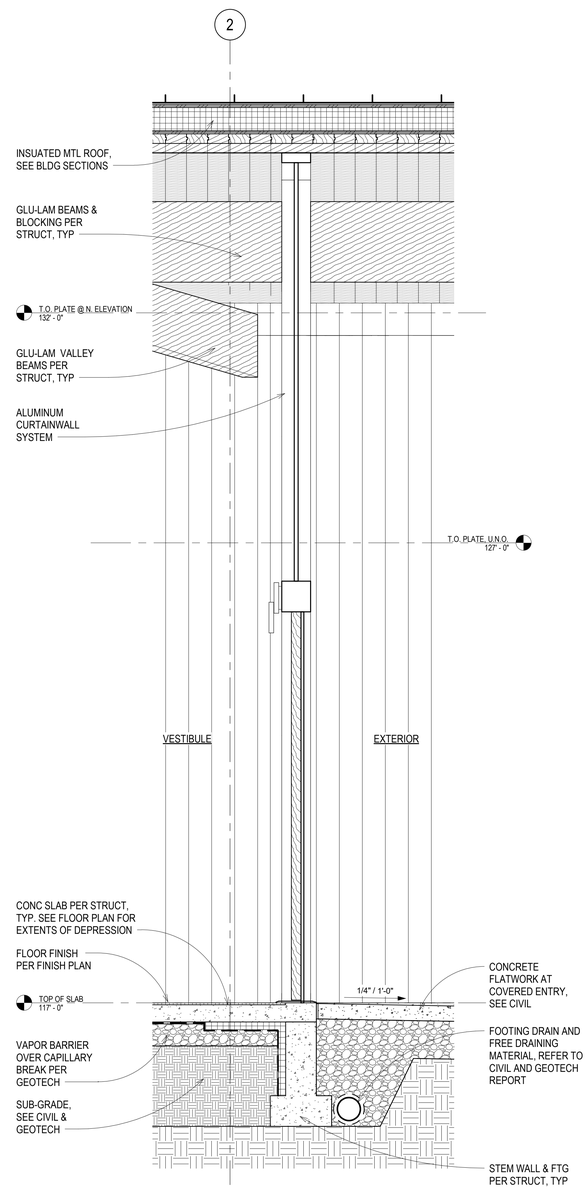
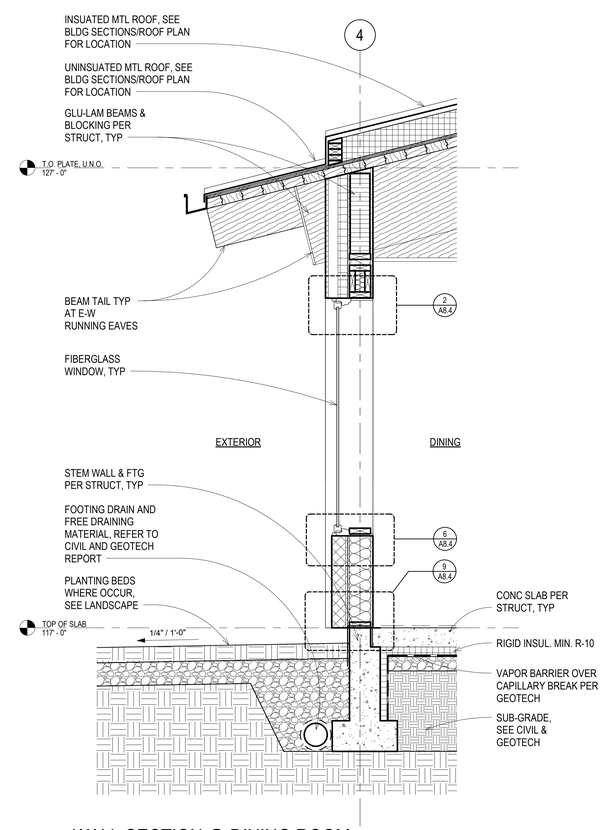



3 WALL SECTION @ TV RM CORRIDOR
3/4" = 1'-0"




2 WALL SECTION @ VESTIBULE
3/4" = 1'-0"




1 WALL SECTION @ DINING ROOM
3/4" = 1'-0"

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|---|---|---|
| | | |

CONTENTS:

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| | |
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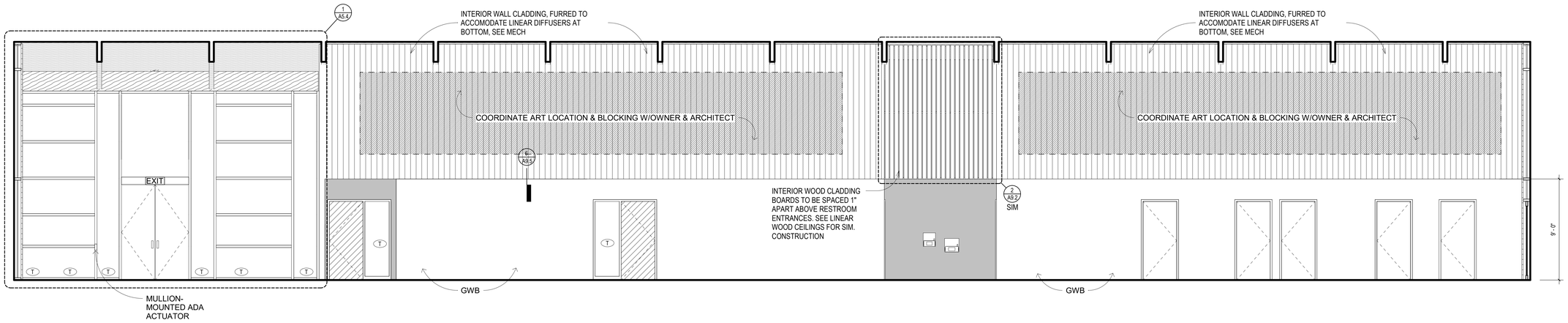
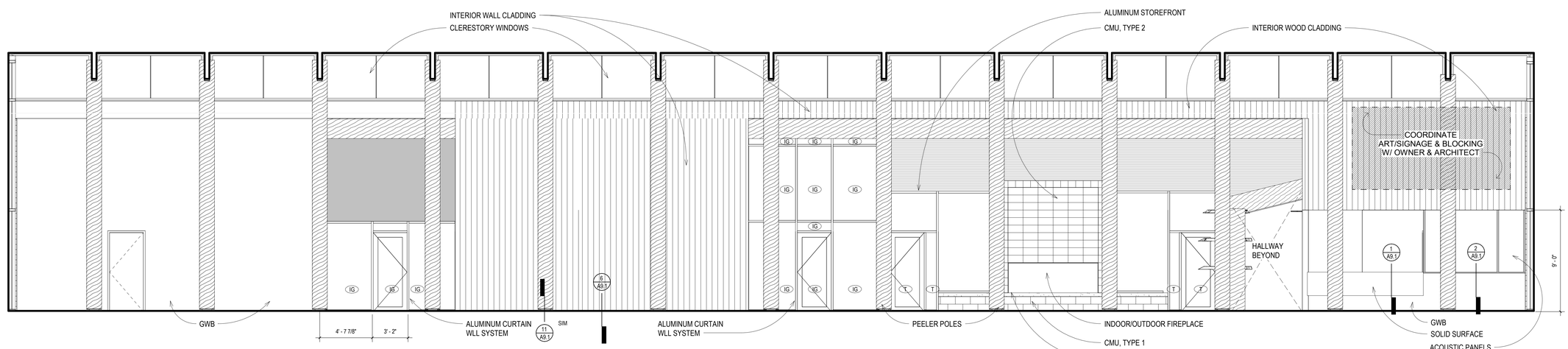
| PROJECT NO: | 2020006.100 |

SHEET:

**A4.1**




2 NORTH HALLWAY - NORTH ELEVATION
1/4" = 1'-0"




1 NORTH HALLWAY - SOUTH ELEVATION
1/4" = 1'-0"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| | | |

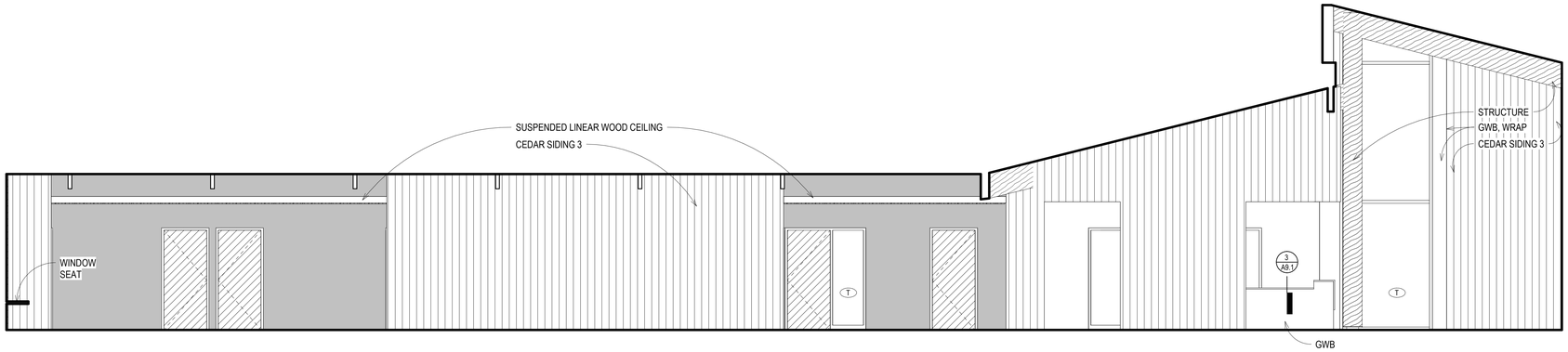
CONTENTS:

**INTERIOR ELEVATIONS**

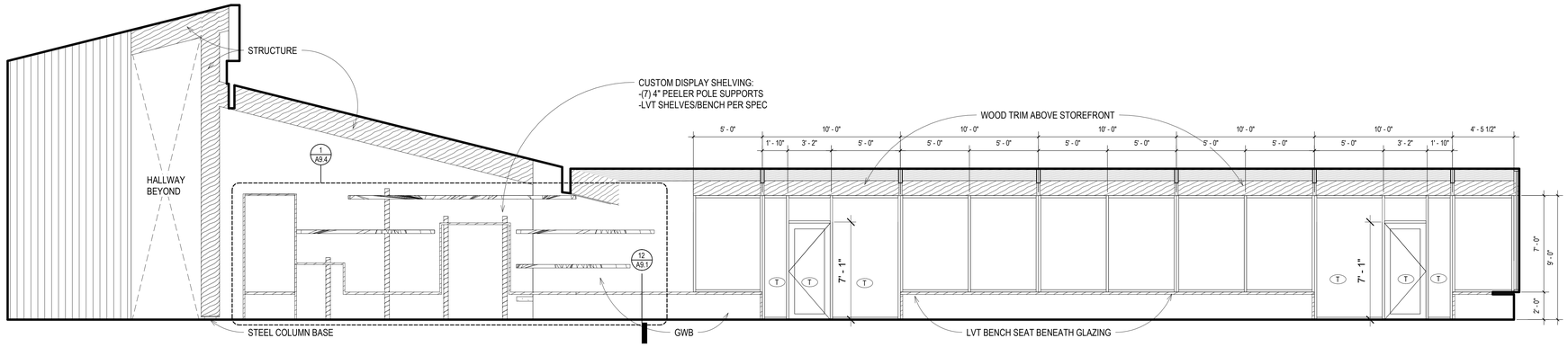
SCALE: 1/4" = 1'-0"
DRAWN: AW
CHECKED: PRC
PROJECT NO: 2020006.100

SHEET:

**A5.1**




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




1 WEST HALLWAY - EAST ELEVATION
1/4" = 1'-0"


arc ARCHITECTS
119 S MAIN ST
SUITE 200
SEATTLE, WA
98104-2579
206 322 3322


# The Chehalis Tribe
# Chehalis Elders Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

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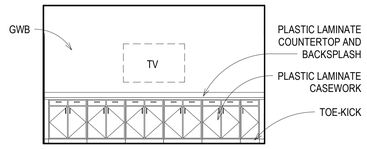
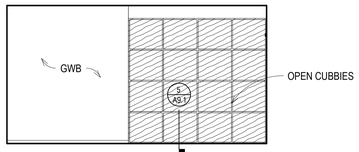
| | |
|---|---|
| SCALE: | 1/4" = 1'-0" |
| DRAWN: | Author |
| CHECKED: | Checker |
| PROJECT NO: | 20200006.100 |

SHEET:

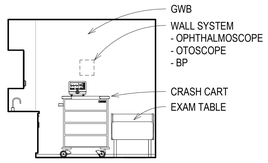
**A5.2**



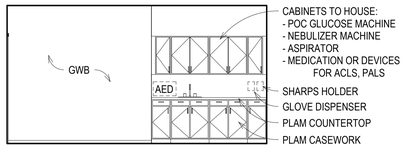

19 FITNESS - SOUTH ELEVATION
1/4" = 1'-0"



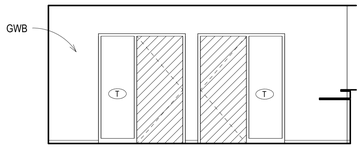

18 FITNESS - NORTH ELEVATION
1/4" = 1'-0"



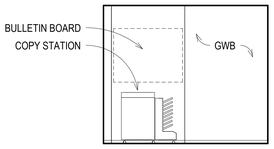

17 MEDICAL - WEST ELEVATION
1/4" = 1'-0"




16 MEDICAL - SOUTH ELEVATION
1/4" = 1'-0"




15 RECEPTION - WEST ELEVATION
1/4" = 1'-0"




14 RECEPTION - SOUTH ELEVATION
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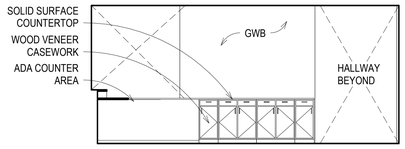
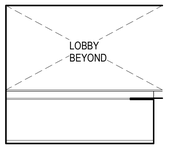
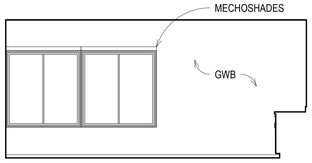


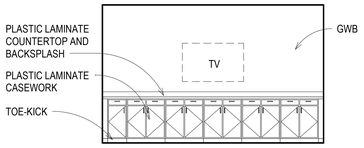

13 RECEPTION - EAST ELEVATION
1/4" = 1'-0"




12 RECEPTION - NORTH ELEVATION
1/4" = 1'-0"




11 TV ROOM 1 - WEST ELEVATION
1/4" = 1'-0"




10 TV ROOM 1 - NORTH ELEVATION
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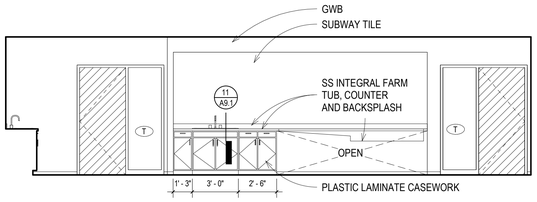
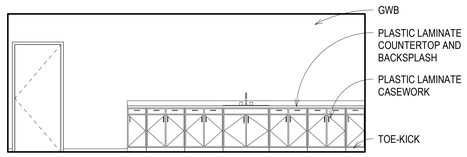
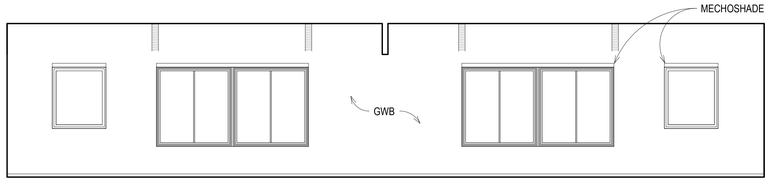


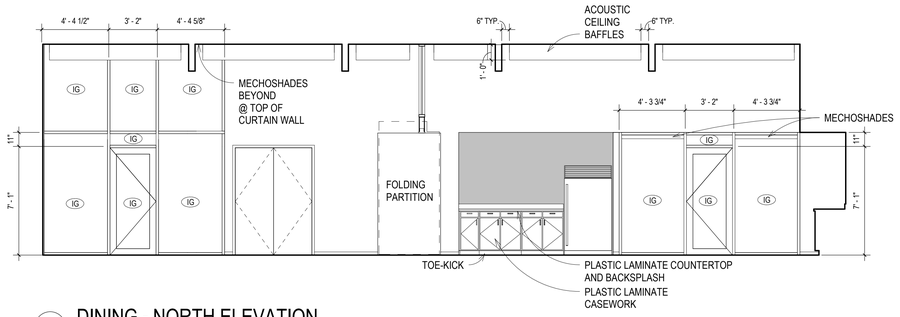

9 CULTURAL ROOM - SOUTH ELEVATION
1/4" = 1'-0"



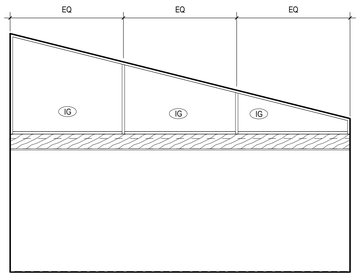

8 CULTURAL ROOM - EAST ELEVATION
1/4" = 1'-0"



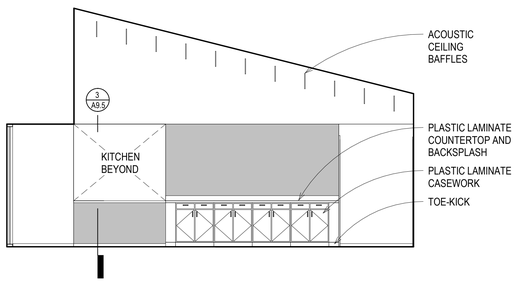

7 DINING - SOUTH ELEVATION
1/4" = 1'-0"



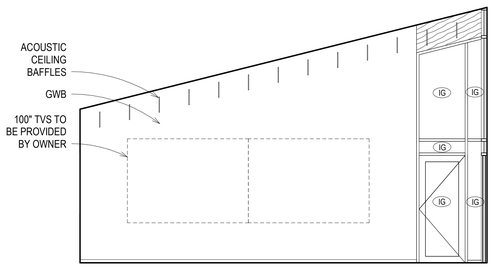

6 DINING - NORTH ELEVATION
1/4" = 1'-0"



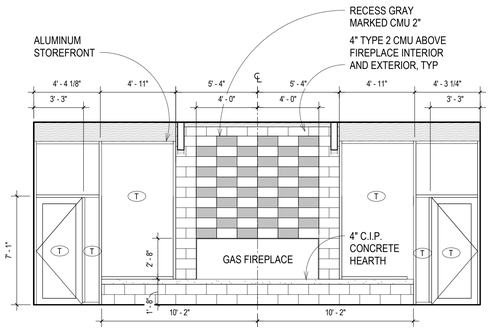

5 CLASSROOM - EAST ELEVATION
1/4" = 1'-0"



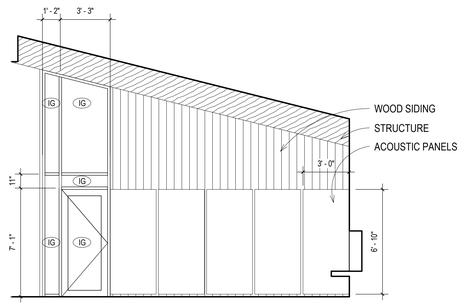

4 DINING ROOM SERVERY
1/4" = 1'-0"




3 CLASSROOM - WEST ELEVATION
1/4" = 1'-0"




2 LIBRARY - SOUTH ELEVATION
1/4" = 1'-0"




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

arc ARCHITECTS
119 S MAIN ST
SUITE 200
SEATTLE, WA
98104-2579
206 322 3322

# The Chehalis Tribe Chehalis Elders Center

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OAKVILLE, WA 98568

THE CHEHALIS TRIBE

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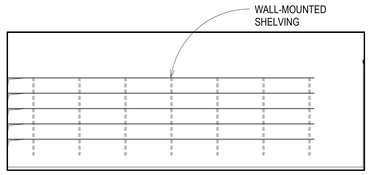
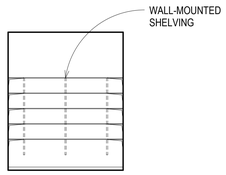
SHEET:
**A5.3**

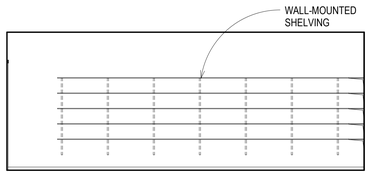
arc
ARCHITECTS
119 S MAIN ST
SUITE 200
SEATTLE, WA
98104-2579
206 322 3322



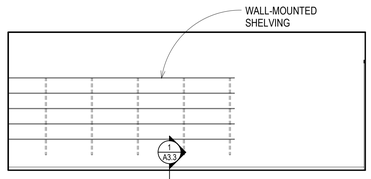

8 PANTRY - EAST ELEVATION
1/4" = 1'-0"




7 PANTRY - NORTH ELEVATION
1/4" = 1'-0"




6 PANTRY - WEST ELEVATION
1/4" = 1'-0"




5 STORAGE 2 - EAST ELEVATION
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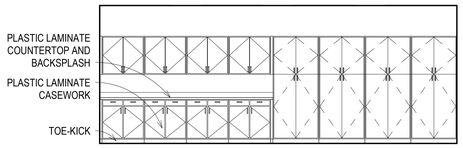
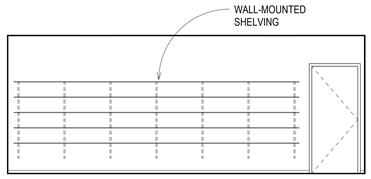
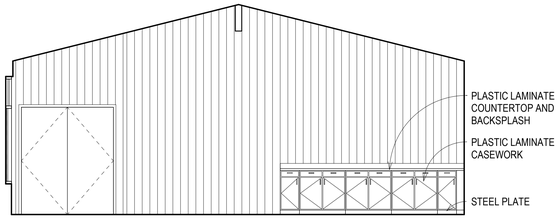


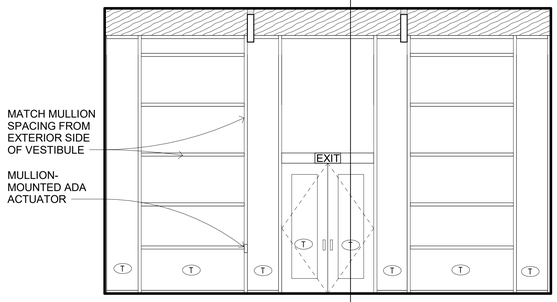

4 STORAGE - EAST ELEVATION
1/4" = 1'-0"




3 STORAGE - WEST ELEVATION
1/4" = 1'-0"




2 OUTDOOR DINING - NORTH ELEVATION
1/4" = 1'-0"




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

# The Chehalis Tribe
# Chehalis Elders Center

NIEDERMAN RD
OAKVILLE, WA 98568

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| DRAWN: | Author |
| CHECKED: | Checker |
| PROJECT NO: | 2020006.100 |

SHEET:

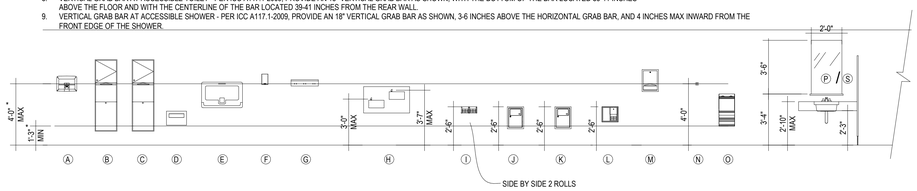
**A5.4**

LEGEND

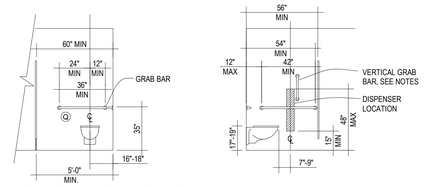
| | | | | | | |
|---|---|---|---|---|---|---|
| (A) WARM-AIR DRYER | (D) TOILET SEAT COVER DISPENSER | (G) UTILITY SHELF W/ MOP/BROOM HOLDERS AND RAG HOOKS | (J) RECESSED SANITARY NAPKIN DISPOSAL UNIT | (M) TOILET PAPER HOLDER | (P) MIRROR | (S) MIRROR W/ MEDICINE CABINET |
| (B) COMBINATION TOWEL DISPENSER / WASTE RECEPTACLE, RECESSED | (E) DIAPER CHANGING STATION | (H) DRINKING FOUNTAINS | (K) SURFACE MOUNTED SANITARY NAPKIN DISPOSAL UNIT | (N) TOWEL HOOK | (Q) GRAB BAR | (T) TOWEL SHELF |
| (C) COMBINATION TOWEL DISPENSER/WASTE RECEPTACLE, SURFACE MOUNTED | (F) LIQUID SOAP DISPENSER | (I) TOILET PAPER DISPENSER W/ STORAGE FOR EXTRA ROLL | (L) MULTI-ROLL TOILET TISSUE DISPENSER | (O) AIR BLADE HAND DRYER | (R) SHOWER BENCH | (U) TOWEL BAR |

NOTES

1. MAX AND MIN DIMENSIONS ARE FOR UNOBSTRUCTED FORWARD AND SIDE REACH RANGES PER SECTION 308 OF THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.
2. DIMENSIONS ARE TAKEN FROM FINISH FLOOR TO THE OPERABLE PART OF RECEPTACLE, U.O.N
3. DRINKING FOUNTAINS - DIMENSION TO SPOUT OUTLETS
4. LAVATORIES - DIMENSION TO TOP OF RIM OR COUNTER SURFACE, WHICHEVER IS HIGHER.
5. MIRROR ABOVE LAVATORIES - DIMENSION TO BOTTOM OF REFLECTING SURFACE.
6. GRAB BARS - DIMENSION TO TOP OF GRIPPING SURFACE.
7. PROVIDE BLOCKING AS REQUIRED FOR ATTACHMENT OF ALL ACCESSORIES.
8. VERTICAL GRAB BAR AT ACCESSIBLE TOILET - PER ICC A117.1-2009, PROVIDE AN 18" VERTICAL GRAB BAR AS SHOWN, WITH THE BOTTOM OF THE BAR LOCATED 39-41 INCHES ABOVE THE FLOOR AND WITH THE CENTERLINE OF THE BAR LOCATED 39-41 INCHES FROM THE REAR WALL.
9. VERTICAL GRAB BAR AT ACCESSIBLE SHOWER - PER ICC A117.1-2009, PROVIDE AN 18" VERTICAL GRAB BAR AS SHOWN, 3-6 INCHES ABOVE THE HORIZONTAL GRAB BAR, AND 4 INCHES MAX INWARD FROM THE FRONT EDGE OF THE SHOWER.




1 TYPICAL RESTROOM ACCESSORIES
SCALE: 1/4" = 1'-0"

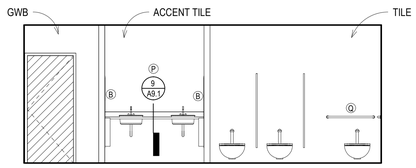




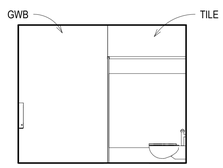


ACCESSIBLE TOILET COMPARTMENT

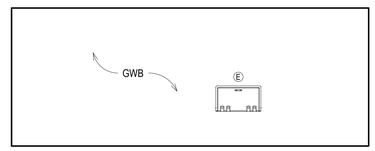
SEE SPECIFICATIONS FOR ADDITIONAL ACCESSORY INFORMATION



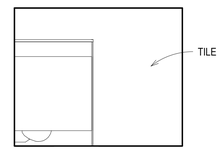

18 WOMENS RR - WEST ELEVATION
1/4" = 1'-0"



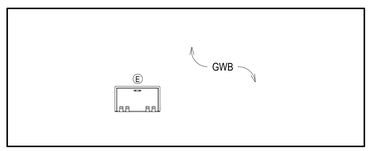

17 WOMENS RR - SOUTH ELEVATION
1/4" = 1'-0"



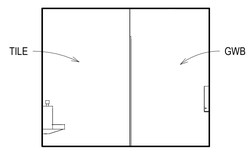

16 WOMENS RR - EAST ELEVATION
1/4" = 1'-0"



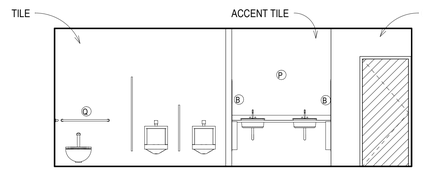

15 WOMENS RR - NORTH ELEVATION
1/4" = 1'-0"



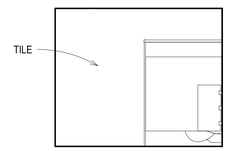

14 MENS RR - WEST ELEVATION
1/4" = 1'-0"



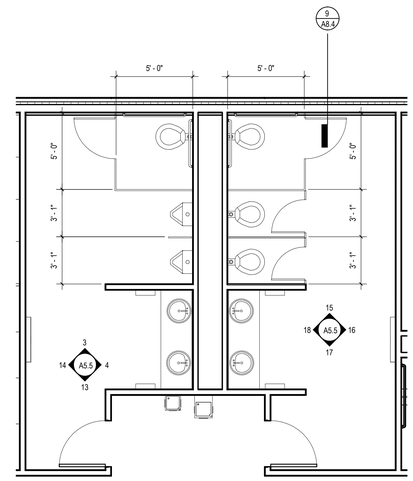

13 MENS RR - SOUTH ELEVATION
1/4" = 1'-0"



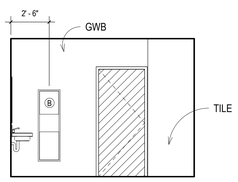

4 MENS RR - EAST ELEVATION
1/4" = 1'-0"



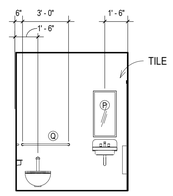

3 MENS RR - NORTH ELEVATION
1/4" = 1'-0"




1 ENLARGED MAIN RESTROOM PLAN
1/4" = 1'-0"




12 FITNESS RR - WEST ELEVATION
1/4" = 1'-0"

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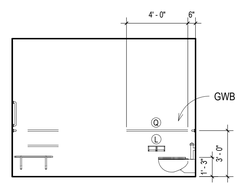
1/4" = 1'-0"

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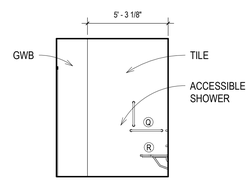
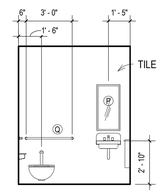
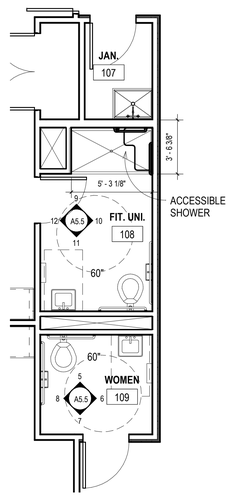
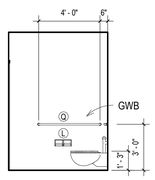



9 FITNESS RR - NORTH ELEVATION
1/4" = 1'-0"

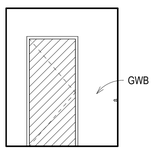


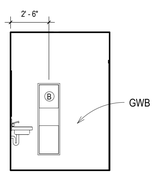

2 ENLARGED RR - WOMEN AND FITNESS
1/4" = 1'-0"




8 RR 109 - WEST ELEVATION
1/4" = 1'-0"




7 RR 109 - SOUTH ELEVATION
1/4" = 1'-0"




6 RR 109 - EAST ELEVATION
1/4" = 1'-0"

5 RR 109 - NORTH ELEVATION
1/4" = 1'-0"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# The Chehalis Tribe Chehalis Elders Center

NIEDERMAN RD
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THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

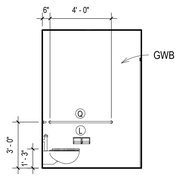
CONTENTS:

**RESTROOM PLANS AND INTERIOR ELEVATIONS**

SCALE: 1/4" = 1'-0"
DRAWN: AW
CHECKED: PRC
PROJECT NO: 2020006.100

SHEET:

**A5.5**




10 RR 112 - WEST ELEVATION
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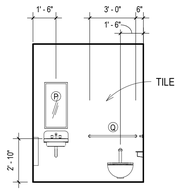
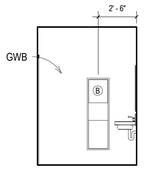



9 RR 112 - SOUTH ELEVATION
1/4" = 1'-0"

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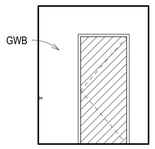
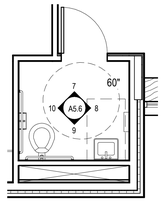



7 RR 112 - NORTH ELEVATION
1/4" = 1'-0"

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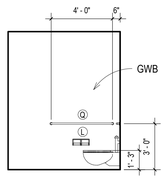


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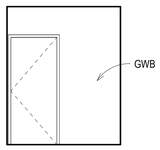
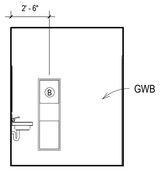
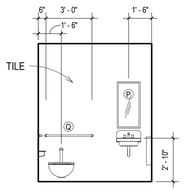
1/4" = 1'-0"



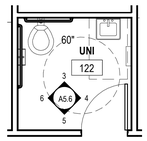

5 RR 122 - SOUTH ELEVATION
1/4" = 1'-0"




4 RR 122 - EAST ELEVATION
1/4" = 1'-0"




3 RR 122 - NORTH ELEVATION
1/4" = 1'-0"




1 ENLARGED UNISEX RESTROOM PLAN
1/4" = 1'-0"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# The Chehalis Tribe
# Chehalis Elders Center

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ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

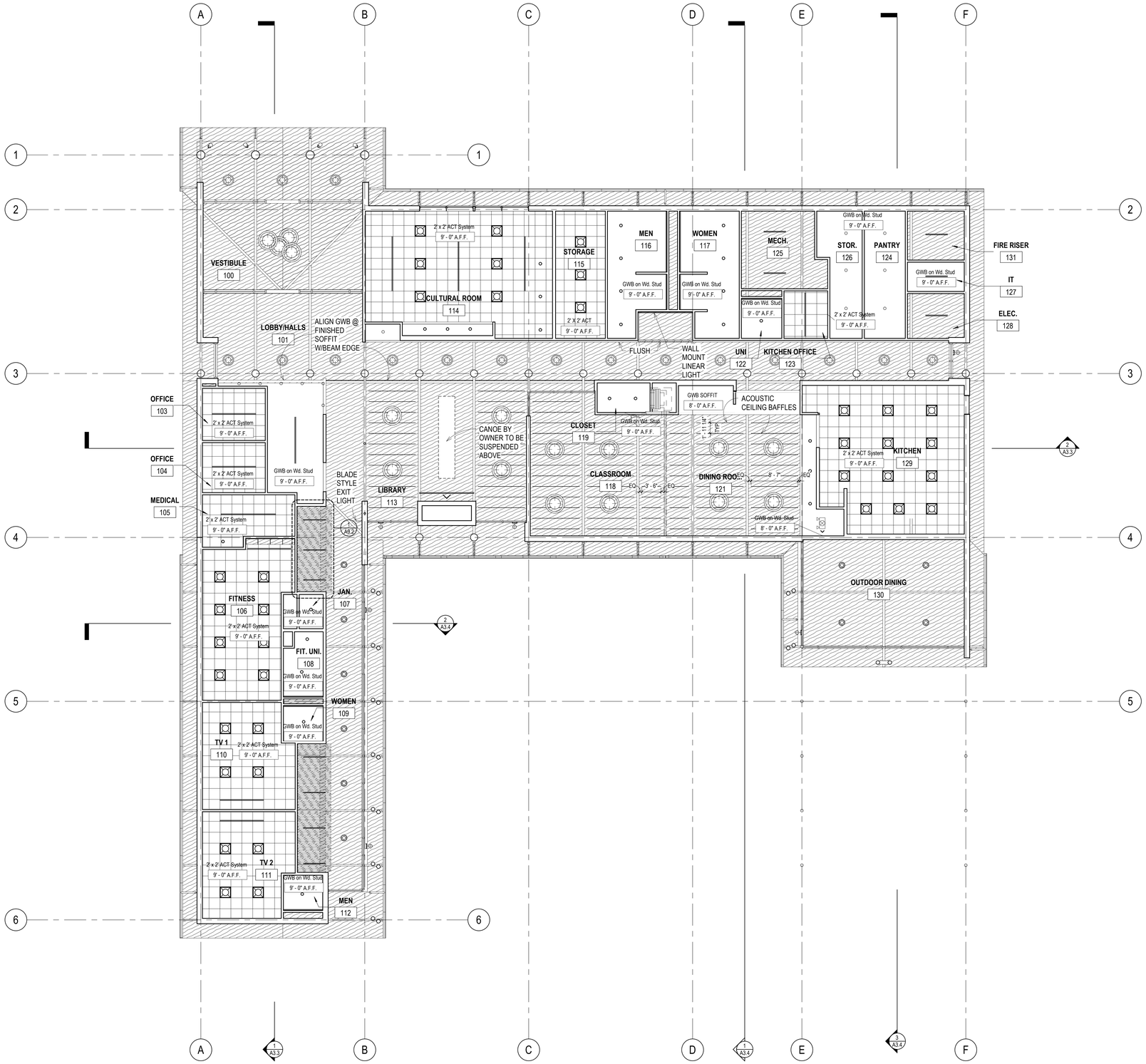
CONTENTS:

**RESTROOM PLANS AND INTERIOR ELEVATIONS**

| | |
|---|---|
| SCALE: | 1/4" = 1'-0" |
| DRAWN: | Author |
| CHECKED: | Checker |
| PROJECT NO: | 2020006.100 |

SHEET:

**A5.6**




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

## CEILING PLAN NOTES:

1. REFER TO T1.0 FOR GENERAL NOTES.
2. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING DEVICES NOT SHOWN ON THESE DRAWINGS.
3. ALL GWB CEILINGS AND SOFFITS ARE SUSPENDED ON CEILING JOISTS. REFER TO STRUCTURAL NOTES.
4. REFER TO FINISH SCHEDULE FOR FINISHES INCLUDING, BUT NOT LIMITED TO THOSE AT CEILINGS, EXPOSED STRUCTURE, EXPOSED DUCTS AND EXPOSED PIPING.
5. TILES AT ACOUSTIC CEILINGS SHALL BE CENTERED ON ROOMS AND HALLWAYS, TYP. INDIVIDUAL PANELS ARE NOT BE CUT TO LESS THAN 3" WIDTHS. ROOMS WITH NEAR EVEN DIMENSION (25", 49") SHOULD HAVE PANELS CUT ROUGHLY CENTER ON EACH EDGE. DO NOT FILL GAP WITH FRAMING.
6. LIGHTING TYPES AND LOCATIONS SHOWN FOR DESIGN INTENT ONLY. ACTUAL LIGHTING DESIGN SHALL BE BY PUBLISHED ELECTRICAL DRAWINGS.
7. MECHANICAL EQUIPMENT SHOWN IS FOR COORDINATION PURPOSES ONLY. ACTUAL MECHANICAL DESIGN SHALL BE BY PUBLISHED MECHANICAL DRAWINGS.

## LEGEND

### Ceilings

- EXPOSED CARDECKING
- 24 X 24 ACOUSTIC CEILING TILES
- DRYWALL, TYPE 4

### Lighting

- LINEAR LED, PANEL/ CEILING MOUNT
- CIRCULAR SUSPENDED, CEILING HUNG
- LED BARN LIGHT, WALL MOUNT
- LED CAN LIGHT, RECESSED
- 24 X 24 LED, PANEL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**BID DOCUMENTS**

ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:

**1st FLOOR RCP**

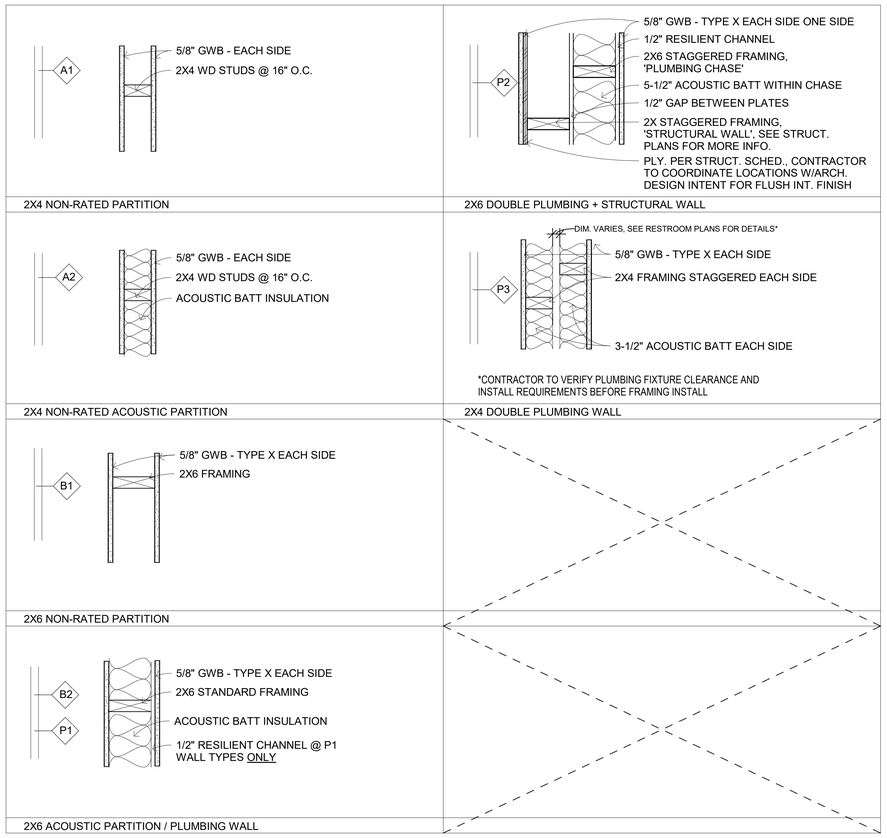
| | |
|---|---|
| SCALE: | As indicated |
| DRAWN: | AW |
| CHECKED: | PRC |
| PROJECT NO: | 2020006.100 |

SHEET:

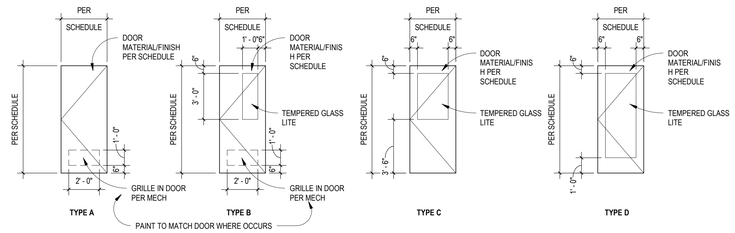
**A6.1**

| DOOR SCHEDULE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | DOOR | | DOOR | | | | FRAME | | | | |
| ROOM NAME | NUMBER | DOOR TYPE | OPENING WIDTH | HEIGHT | MATERIAL | FINISH | TYPE | MATERIAL | FINISH | PAIR | COMMENTS |
| VESTIBULE | 100A | TYPE D | 6' - 0" | 8' - 6" | WD | ST | TYPE 2 | AL | FF | YES | PANIC HARDWARE, STILE AND RAIL |
| LOBBY/HALLS | 101A | TYPE D | 6' - 0" | 8' - 6" | WD | ST | TYPE 2 | AL | FF | YES | PANIC HARDWARE, STILE AND RAIL |
| LOBBY/HALLS | 101B | TYPE D | 3' - 0" | 7' - 0" | AL | FF | TYPE 1 | AL | FF | | PANIC HARDWARE |
| LOBBY HALLS | 101C | TYPE B | 3' - 0" | 7' - 0" | HM | PT | TYPE 1 | HM | PT | | |
| OFFICE | 103A | TYPE A | 3' - 0" | 7' - 0" | WD | FF | TYPE 3 | HM | PT | | |
| OFFICE | 104A | TYPE A | 3' - 0" | 7' - 0" | WD | FF | TYPE 3 | HM | PT | | |
| MEDICAL | 105A | TYPE A | 3' - 0" | 7' - 0" | WD | FF | TYPE 1 | HM | PT | | |
| FITNESS | 106A | TYPE A | 3' - 0" | 7' - 0" | WD | FF | TYPE 3 | HM | PT | | |
| JANITORIAL | 107A | TYPE A | 3' - 0" | 7' - 0" | WD | FF | TYPE 1 | HM | PT | | |
| FITNESS RR | 108A | TYPE A | 3' - 0" | 7' - 0" | WD | FF | TYPE 1 | HM | PT | | |
| WOMEN RR | 109A | TYPE A | 3' - 0" | 7' - 0" | WD | FF | TYPE 1 | HM | PT | | |
| TV 1 | 110A | TYPE B | 3' - 0" | 7' - 0" | WD | FF | TYPE 1 | HM | PT | | |
| TV 2 | 111A | TYPE B | 3' - 0" | 7' - 0" | WD | FF | TYPE 1 | HM | PT | | |
| MEN RR | 112A | TYPE A | 3' - 0" | 7' - 0" | WD | FF | TYPE 1 | HM | PT | | |
| LIBRARY | 113A | TYPE D | 3' - 0" | 7' - 0" | AL | FF | TYPE 1 | AL | FF | | |
| LIBRARY | 113B | TYPE D | 3' - 0" | 7' - 0" | AL | FF | TYPE 1 | AL | FF | | |
| CULTURAL ROOM | 114A | TYPE D | 3' - 0" | 7' - 0" | WD | FF | TYPE 3 | HM | PT | | |
| CULTURAL ROOM | 114B | TYPE D | 3' - 0" | 7' - 0" | WD | FF | TYPE 3 | HM | PT | | |
| STORAGE | 115A | TYPE A | 3' - 0" | 7' - 0" | HM | PT | TYPE 1 | HM | PT | | |
| MEN RR | 116A | TYPE A | 3' - 0" | 7' - 0" | WD | FF | TYPE 1 | HM | PT | | |
| WOMEN RR | 117A | TYPE A | 3' - 0" | 7' - 0" | WD | FF | TYPE 1 | HM | PT | | |
| CLASSROOM | 118A | TYPE D | 3' - 0" | 7' - 0" | AL | FF | TYPE 1 | AL | FF | | |
| CLASSROOM | 118B | TYPE D | 3' - 0" | 7' - 0" | AL | FF | TYPE 1 | AL | FF | | PANIC HARDWARE |
| CLOSET | 119A | TYPE A | 5' - 0" | 7' - 0" | HM | FF | TYPE 2 | HM | PT | YES | |
| DINING ROOM | 121A | TYPE D | 3' - 0" | 7' - 0" | AL | FF | TYPE 1 | AL | FF | | PANIC HARDWARE |
| UNI RR | 122A | TYPE A | 3' - 0" | 7' - 0" | HM | PT | TYPE 1 | HM | PT | | |
| KITCHEN OFFICE | 123A | TYPE A | 3' - 0" | 7' - 0" | HM | PT | TYPE 1 | HM | PT | | |
| PANTRY | 124A | TYPE A | 3' - 0" | 7' - 0" | HM | PT | TYPE 1 | HM | PT | | |
| MECHANICAL | 125A | TYPE A | 3' - 0" | 7' - 0" | HM | PT | TYPE 1 | HM | PT | | |
| STORAGE | 126A | TYPE A | 3' - 0" | 7' - 0" | HM | PT | TYPE 1 | HM | PT | | |
| IT | 127A | TYPE A | 3' - 0" | 7' - 0" | HM | PT | TYPE 1 | HM | PT | | |
| ELECTRICAL | 128A | TYPE A | 3' - 0" | 7' - 0" | HM | PT | TYPE 1 | HM | PT | | |
| KITCHEN | 129A | TYPE C | 3' - 0" | 7' - 0" | WD | FF | TYPE 1 | HM | PT | | 2-WAY SWINGING |
| KITCHEN | 129B | TYPE C | 3' - 0" | 7' - 0" | HM | PT | TYPE 1 | HM | PT | | PANIC HARDWARE |
| OUTDOOR DINING | 130A | TYPE D | 3' - 0" | 7' - 0" | AL | FF | TYPE 1 | AL | FF | | PANIC HARDWARE |
| OUTDOOR DINING | 130B | TYPE D | 6' - 0" | 7' - 0" | AL | FF | TYPE 2 | AL | FF | YES | PANIC HARDWARE |
| FIRE RISER | 131A | TYPE A | 3' - 0" | 7' - 0" | HM | PT | TYPE 1 | HM | PT | | |
| WEST HALL | 132A | TYPE D | 3' - 0" | 7' - 0" | AL | FF | TYPE 1 | AL | FF | | |
| WEST HALL | 132B | TYPE D | 3' - 0" | 7' - 0" | AL | FF | TYPE 1 | AL | FF | | PANIC HARDWARE |
| IT CLOSET | 134A | TYPE A | 5' - 0" | 7' - 0" | HM | PT | TYPE 2 | HM | PT | YES | |

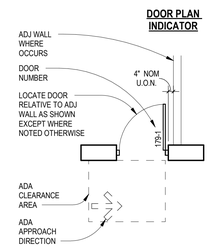
## TYPICAL INTERIOR PARTITION ASSEMBLIES




## DOOR TYPE SCHEDULE




## DOOR PLAN INFO

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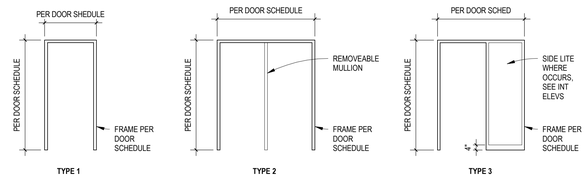


### DOOR TYPES

**DOOR & FRAME MATERIAL:**
HM = HOLLOW METAL
AL = ALUMINUM
WD = WOOD
FG = FIBERGLASS
GL=GLASS

**DOOR & FRAME FINISH:**
PT = METAL, FIELD PAINTED
ANOD = ANODIZED
FF = FACTORY FINISHED
ST = STAIN
CL = CLEAR FINISH

**GLAZING:**
SEE INTERIOR AND EXTERIOR ELEVATIONS FOR LOCATIONS OF TEMPERED, LAMINATED AND COLORED LAMINATED GLAZING

**COMMENTS: AS INDICATED**
NA = NOT APPLICABLE
PH = PANIC HARDWARE/EXIT DOOR
VIF= VERIFY OPENING WIDTH IN FIELD

### GENERAL DOOR NOTES

1. SEE INTERIOR AND EXTERIOR ELEVATIONS FOR DOOR AND RELITE FRAME DETAIL CALLOUTS.

2. TO DETERMINE FRAME DEPTH, SEE TYPICAL ASSEMBLIES SCHEDULE FOR WALL CONSTRUCTION AND STRUCTURAL DRAWINGS FOR PLYWOOD SHEATHING THICKNESS AND LOCATIONS.

3. FIRE DOORS, AND DOORS 107 AND 124, SHALL BE EQUIPPED W/ APPROVED LATCHES AND SELF-CLOSING DEVICES; REFER TO FINISH HARDWARE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

4. THE OPENING AND CLOSING FORCE OF ALL INTERIOR SWINGING OR SLIDING DOORS WITH OR WITHOUT CLOSERS SHALL REQUIRE NO GREATER THAN 5 POUNDS OF FORCE TO MEET ACCESSIBILITY REQUIREMENTS DESCRIBED IN ANSI A117.1-2008.

5. REFER TO EXTERIOR ELEVATIONS FOR LOUVERS LOCATED IN HM OR ALUMINUM FRAMES.

6. REFER TO ELECTRICAL DRAWINGS FOR CARD READER, BADGE READER, SECURITY ALARMS, AND SIMILAR SECURITY DEVICES AT DOORS.

7. EXIT DOORS IN CURTAINWALL SYSTEMS HAVE A THICKENED HEAD MULLION FOR EXIT LIGHT SIGNAGE MOUNTING. SEE INTERIOR ELEVATIONS FOR EXACT QUANTITY AND LOCATIONS.

8. AT CURTAINWALL FRAME TYPES, SEE ELEVATIONS FOR FRAME CONFIGURATION (NOT FRAME TYPE SCHEDULE ABOVE)

### GENERAL PARTITION NOTES:

1. 1" TYPE S DRYWALL SCREWS, 8" O.C. VERTICAL JOINTS - 12" O.C. @ WALL PERIMETER AND INTERMEDIATE STUDS

2. JOINTS STAGGERED 24" EACH LAYER AND SIDE, SEAL ALL PENETRATIONS.

3. PLAN INDICATORS AND PARTITION TYPES ARE N.T.S.

4. SEE STRUCTURAL FOR LOAD BEARING AND SHEAR WALL LOCATIONS. SHEATHING IS NOT SHOWN ON ARCHITECTURAL DRAWINGS - PROVIDE SHEATHING PER STRUCTURAL.

5. CONTRACTOR TO COORDINATE SHEARWALL LOCATIONS WITH PARTITION TYPES INDICATED. GWB FINISH IS TO BE COORDINATED AS SMOOTH AND FLUSH AT ALL LOCATIONS

6. ACOUSTIC PARTITIONS:
FILL WITH BATT INSULATION FOR "SOUND CONTROL", U.O.N. THE THICKNESS SHALL BE FULL WIDTH OF STUDS. SECURE INSULATION TO PREVENT SAGGING AND SEAL PERIMETER - SEE SPECIFICATION FOR JOINT SEALANTS. STAGGER AND SEAL ALL ELECTRICAL OUTLETS. EXTEND GWB TO UNDERSIDE OF DECK - TYP. WHERE PARTITIONS SEAL TO A ROUGH OR CORRUGATED SURFACE, CLOSURE STRIPS WILL BE REQUIRED.

7. ALL WALLS EXTEND TO STRUCTURE OR BOTTOM OF DECK, U.O.N. - SEE INTERIOR ELEVATIONS.

8. AT NON-BEARING WALLS THAT EXTEND TO STRUCTURE OR DECK ABOVE, FURNISH SLIP CONNECTION AT TOP OF WALL THAT ALLOWS 1-1/2" MIN. DIFFERENTIAL DEFLECTION OF STRUCTURE ABOVE, U.N.O.

9. WHERE TWO OR MORE LAYERS OF GWB ARE USED, DO NOT CEMENT GWB TO THE INITIAL LAYER. USE NAILS OR SCREWS. STAGGER LAYERED BOARD JOINTS.

10. FOR INTERIOR WOOD FINISH LOCATIONS, REFER TO INTERIOR ELEVATIONS

11. FIRE RATED WALL CONSTRUCTION IS REQUIRED WHERE NOTED ON FLOOR PLANS AND BUILDING SECTIONS.

12. SEE DETAILS FOR UNHEATED ROOF ASSEMBLY


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| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:

**SCHEDULES - DOOR, PARTITION**

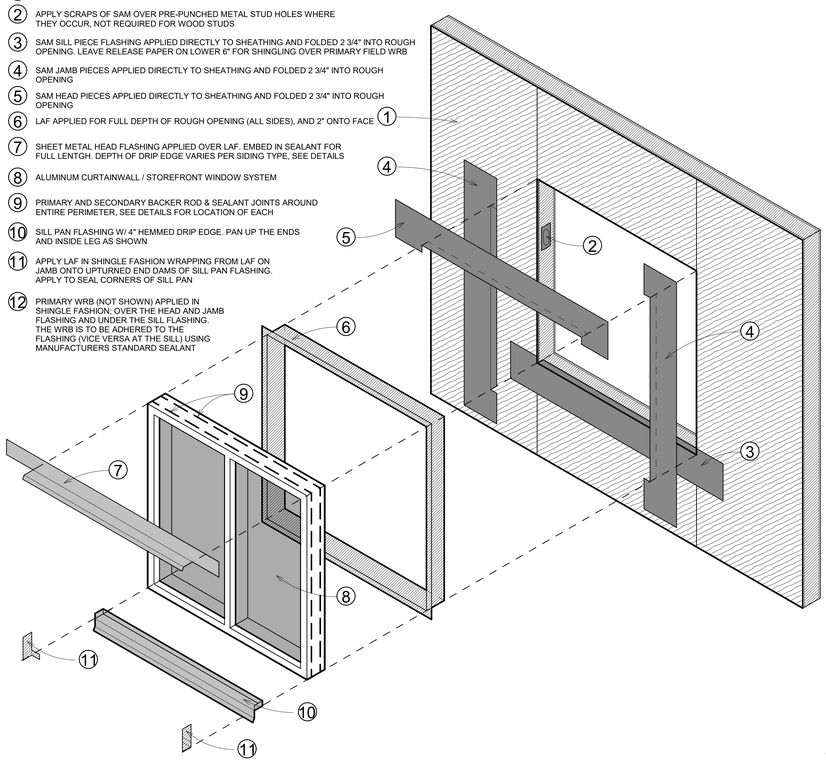
| | |
|---|---|
| SCALE: | As indicated |
| DRAWN: | Author |
| CHECKED: | Checker |
| PROJECT NO: | 2020006.100 |

SHEET:

**A7.1**

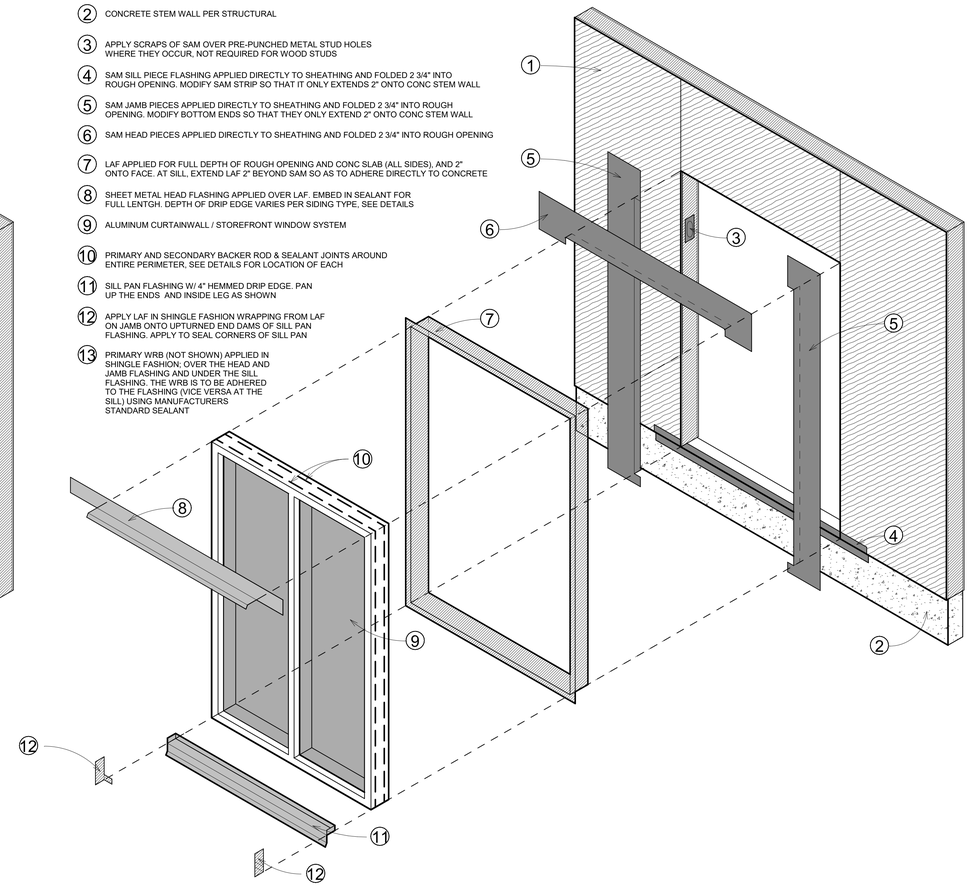
SAM AND LAF INSTALLATION SEQUENCE @ PUNCHED WALL OPENINGS

1. PLY SHEATHING PER STRUCTURAL
2. APPLY SCRAPS OF SAM OVER PRE-PUNCHED METAL STUD HOLES WHERE THEY OCCUR, NOT REQUIRED FOR WOOD STUDS
3. SAM SILL PIECE FLASHING APPLIED DIRECTLY TO SHEATHING AND FOLDED 2 3/4" INTO ROUGH OPENING. LEAVE RELEASE PAPER ON LOWER 6" FOR SHINGLING OVER PRIMARY FIELD WRB
4. SAM JAMB PIECES APPLIED DIRECTLY TO SHEATHING AND FOLDED 2 3/4" INTO ROUGH OPENING
5. SAM HEAD PIECES APPLIED DIRECTLY TO SHEATHING AND FOLDED 2 3/4" INTO ROUGH OPENING
6. LAF APPLIED FOR FULL DEPTH OF ROUGH OPENING (ALL SIDES), AND 2" ONTO FACE
7. SHEET METAL HEAD FLASHING APPLIED OVER LAF. EMBED IN SEALANT FOR FULL LENTGH. DEPTH OF DRIP EDGE VARIES PER SIDING TYPE, SEE DETAILS
8. ALUMINUM CURTAINWALL / STOREFRONT WINDOW SYSTEM
9. PRIMARY AND SECONDARY BACKER ROD & SEALANT JOINTS AROUND ENTIRE PERIMETER, SEE DETAILS FOR LOCATION OF EACH
10. SILL PAN FLASHING W/ 4" HEMMED DRIP EDGE. PAN UP THE ENDS AND INSIDE LEG AS SHOWN
11. APPLY LAF IN SHINGLE FASHION WRAPPING FROM LAF ON JAMB ONTO UPTURNED END DAMS OF SILL PAN FLASHING. APPLY TO SEAL CORNERS OF SILL PAN
12. PRIMARY WRB (NOT SHOWN) APPLIED IN SHINGLE FASHION; OVER THE HEAD AND JAMB FLASHING AND UNDER THE SILL FLASHING. THE WRB IS TO BE ADHERED TO THE FLASHING (VICE VERSA AT THE SILL) USING MANUFACTURERS STANDARD SEALANT



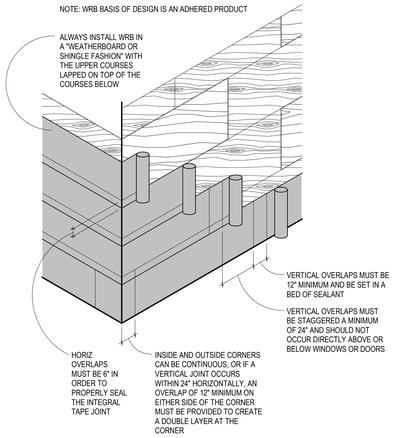

SAM AND LAF INSTALLATION SEQUENCE @ WINDOWS AT GRADE

1. PLY SHEATHING PER STRUCTURAL
2. CONCRETE STEM WALL PER STRUCTURAL
3. APPLY SCRAPS OF SAM OVER PRE-PUNCHED METAL STUD HOLES WHERE THEY OCCUR, NOT REQUIRED FOR WOOD STUDS
4. SAM SILL PIECE FLASHING APPLIED DIRECTLY TO SHEATHING AND FOLDED 2 3/4" INTO ROUGH OPENING. MODIFY SAM STRIP SO THAT IT ONLY EXTENDS 2" ONTO CONC STEM WALL
5. SAM JAMB PIECES APPLIED DIRECTLY TO SHEATHING AND FOLDED 2 3/4" INTO ROUGH OPENING. MODIFY BOTTOM ENDS SO THAT THEY ONLY EXTEND 2" ONTO CONC STEM WALL
6. SAM HEAD PIECES APPLIED DIRECTLY TO SHEATHING AND FOLDED 2 3/4" INTO ROUGH OPENING
7. LAF APPLIED FOR FULL DEPTH OF ROUGH OPENING AND CONC SLAB (ALL SIDES), AND 2" ONTO FACE. AT SILL, EXTEND LAF 2" BEYOND SAM SO AS TO ADHERE DIRECTLY TO CONCRETE
8. SHEET METAL HEAD FLASHING APPLIED OVER LAF. EMBED IN SEALANT FOR FULL LENTGH. DEPTH OF DRIP EDGE VARIES PER SIDING TYPE, SEE DETAILS
9. ALUMINUM CURTAINWALL / STOREFRONT WINDOW SYSTEM
10. PRIMARY AND SECONDARY BACKER ROD & SEALANT JOINTS AROUND ENTIRE PERIMETER. SEE DETAILS FOR LOCATION OF EACH
11. SILL PAN FLASHING W/ 4" HEMMED DRIP EDGE. PAN UP THE ENDS AND INSIDE LEG AS SHOWN
12. APPLY LAF IN SHINGLE FASHION WRAPPING FROM LAF ON JAMB ONTO UPTURNED END DAMS OF SILL PAN FLASHING. APPLY TO SEAL CORNERS OF SILL PAN
13. PRIMARY WRB (NOT SHOWN) APPLIED IN SHINGLE FASHION; OVER THE HEAD AND JAMB FLASHING AND UNDER THE SILL FLASHING. THE WRB IS TO BE ADHERED TO THE FLASHING (VICE VERSA AT THE SILL) USING MANUFACTURERS STANDARD SEALANT

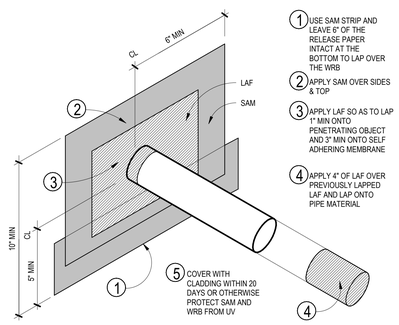



## 1 WATERPROOFING AT ALUMINUM WINDOW PENETRATIONS
1/2" = 1'-0"

NOTE: WRB BASIS OF DESIGN IS AN ADHERED PRODUCT

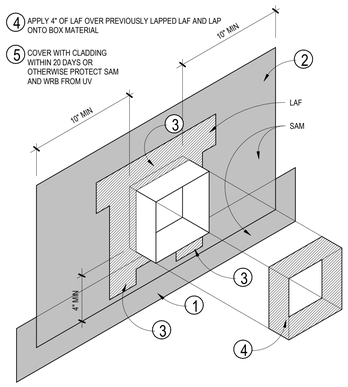



## 2 PRIMARY WRB INSTALLATION
1/4" = 1'-0"

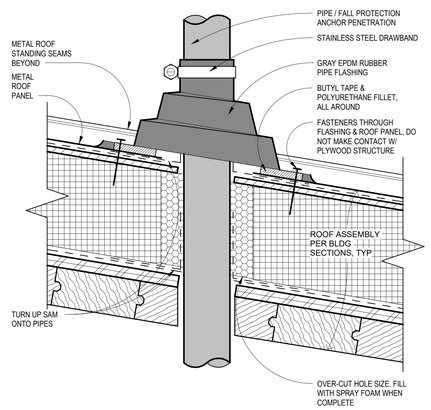



## 3 TYPICAL ROUND PENETRATION SEALS
3" = 1'-0"

1. USE SAM STRIP AND LEAVE 6" OF THE RELEASE PAPER INTACT AT THE BOTTOM TO LAP OVER THE WRB
2. APPLY SAM AT SIDES & TOP
3. APPLY LAF SO AS TO LAP 1" MIN ONTO PENETRATING OBJECT AND 3" MIN ONTO SELF ADHERING MEMBRANE, ALL SIDES
4. APPLY 4" OF LAF OVER PREVIOUSLY LAPPED LAF AND LAP ONTO BOX MATERIAL
5. COVER WITH CLADDING WITHIN 20 DAYS OR OTHERWISE PROTECT SAM AND WRB FROM UV




## 4 TYPICAL RECTANGULAR PENETRATION SEALS
1 1/2" = 1'-0"




## 5 TYPICAL ROOF PENETRATION DETAILS
3" = 1'-0"


a|r|c ARCHITECTS
119 S MAIN ST
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# The Chehalis Tribe Chehalis Elders Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

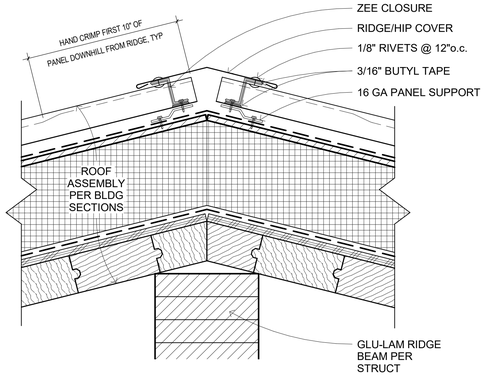
CONTENTS:

**EXT DETAILS - TYPICAL WATERPROOFING**

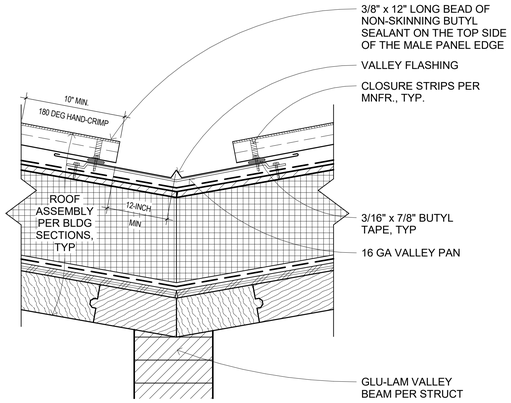
| | |
|---|---|
| SCALE: | As Indicated |
| DRAWN: | Author |
| CHECKED: | Checker |
| PROJECT NO: | 2020006.100 |

SHEET:

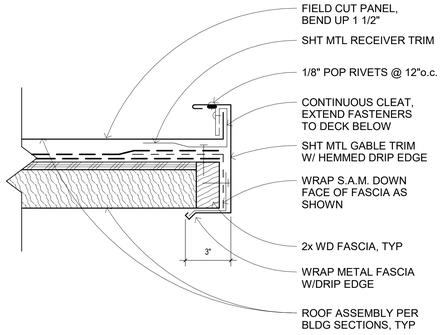
**A8.1**



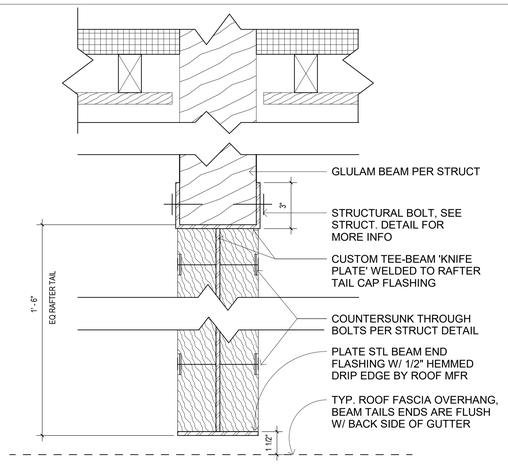

1 TYPICAL RIDGE
3" = 1'-0"



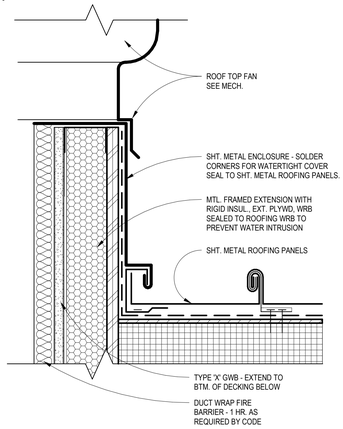

2 TYPICAL VALLEY
3" = 1'-0"



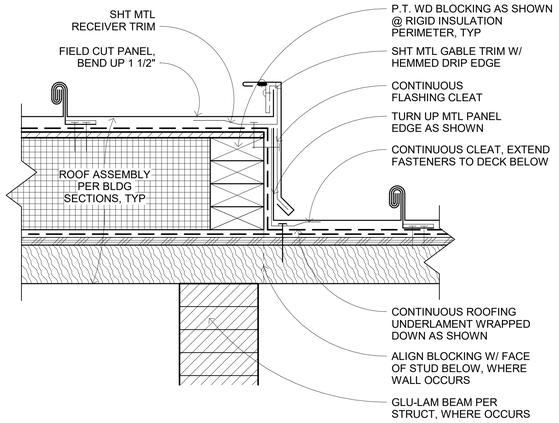

3 TYPICAL RAKE
3" = 1'-0"



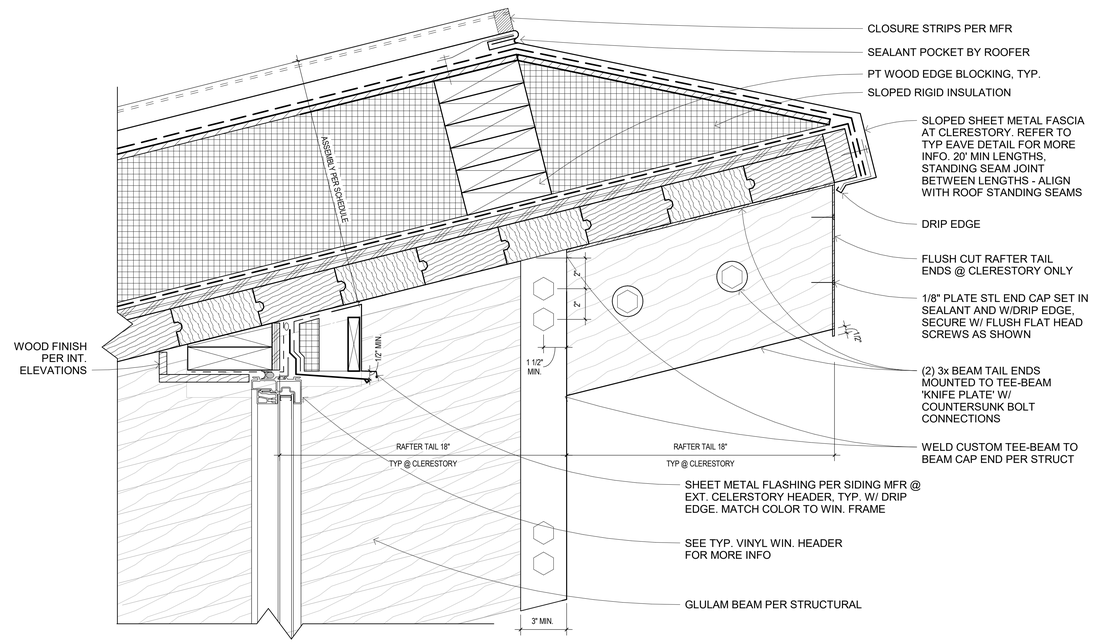

4 RAFTER TAIL SECTION DETAIL
3" = 1'-0"



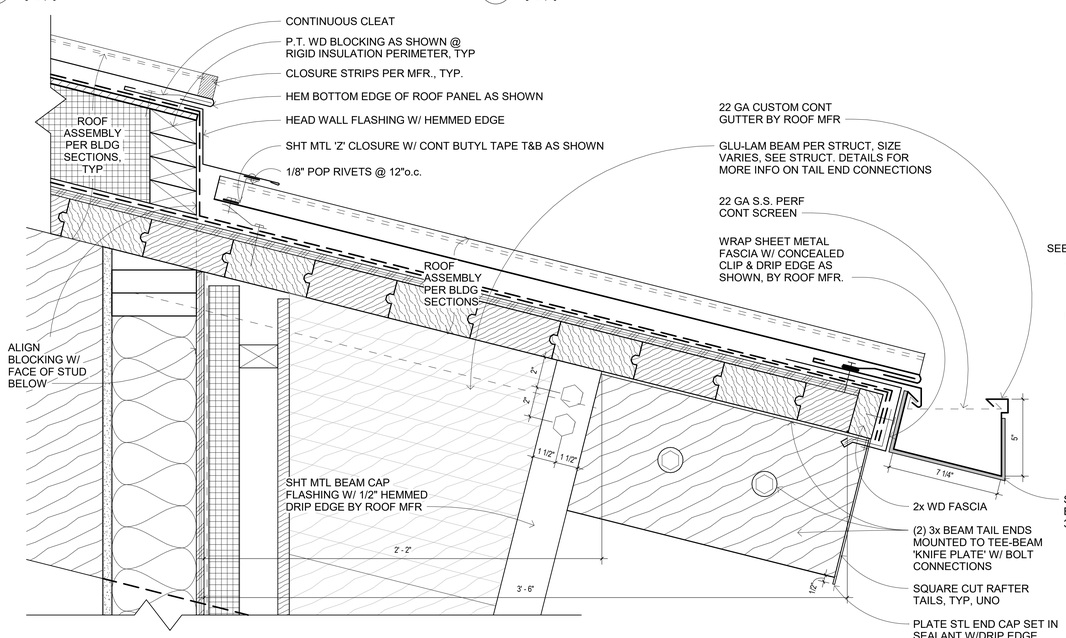

5 METAL ROOF PENETRATION @ KITCHEN
3" = 1'-0"




6 INSULATION STEP @ RAKE, TYP.
3" = 1'-0"

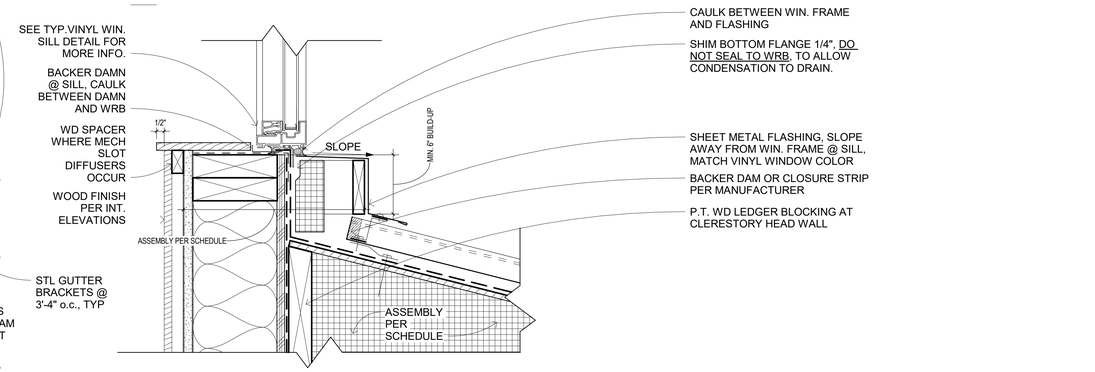



9 TYPICAL CLERESTORY EAVE AND WINDOW HEAD/SILL
3" = 1'-0"




7 INSULATION STEP @ EAVE, TYP.
3" = 1'-0"

8 TYPICAL EAVE @ GRID 2 & 4
3" = 1'-0"





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|---|---|---|
| | | |

CONTENTS:
**EXTERIOR DETAILS**

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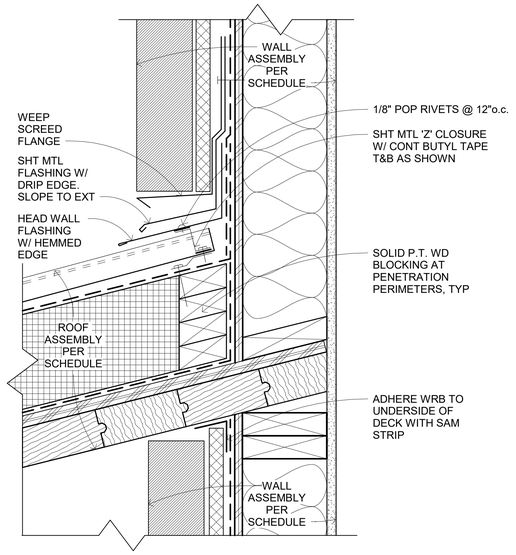
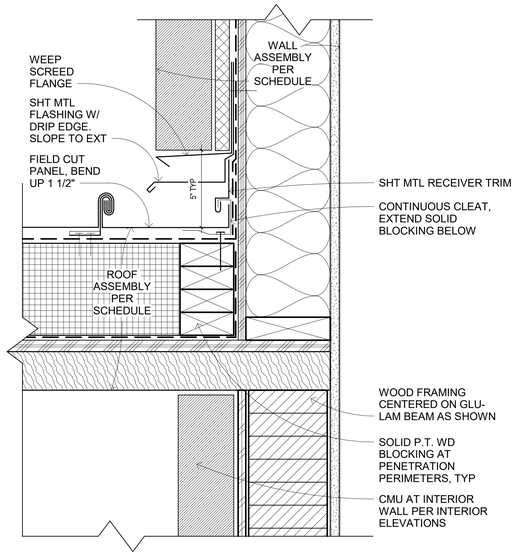
|---|---|
| SCALE: | 3" = 1'-0" |
| DRAWN: | Author |
| CHECKED: | Checker |
| PROJECT NO: | 2020006.100 |

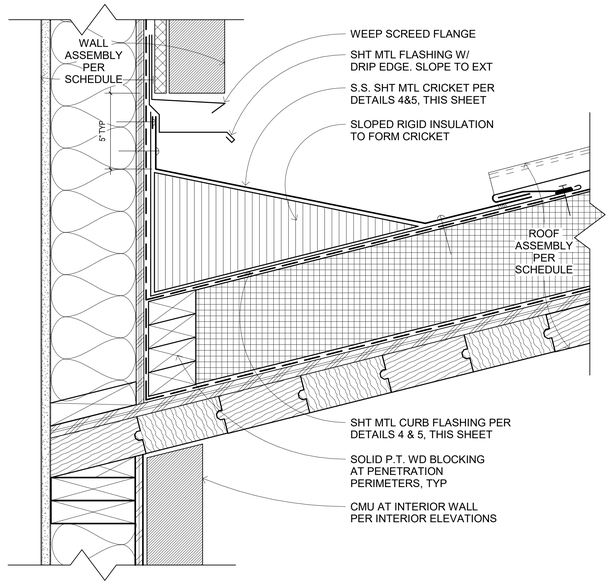
SHEET:
**A8.2**



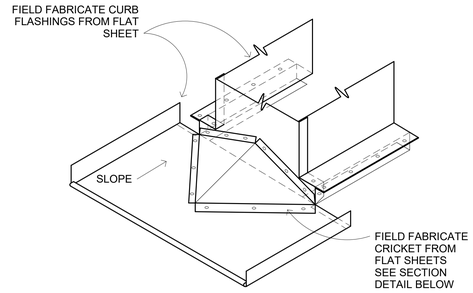

1 ROOF @ CHIMNEY SOUTH
3" = 1'-0"



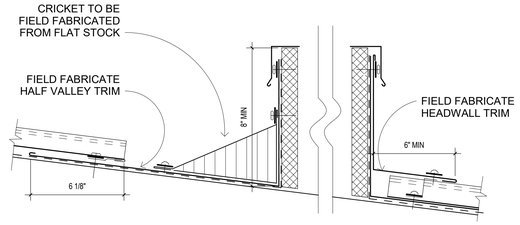

2 ROOF @ CHIMNEY EAST
3" = 1'-0"




3 CRICKET @ CHIMNEY
3" = 1'-0"




4 CRICKET AXON DETAIL, TYP.
1 1/2" = 1'-0"




5 SECTION DETAIL @ CRICKET, TYP.
3" = 1'-0"

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# Chehalis Elders Center

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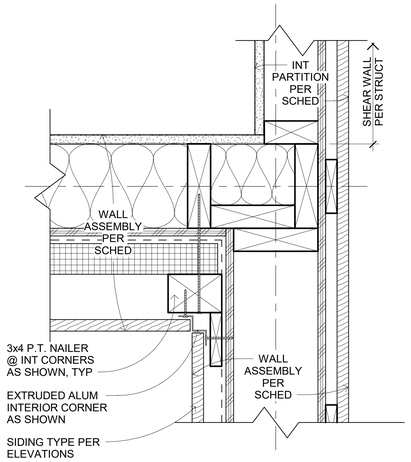
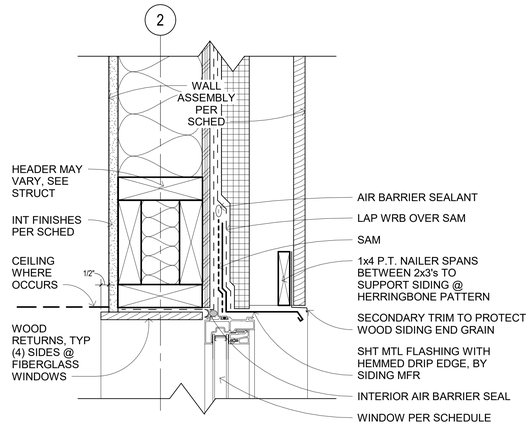
| DRAWN: | Author |
| CHECKED: | Checker |
| PROJECT NO: | 2020006.100 |

SHEET:

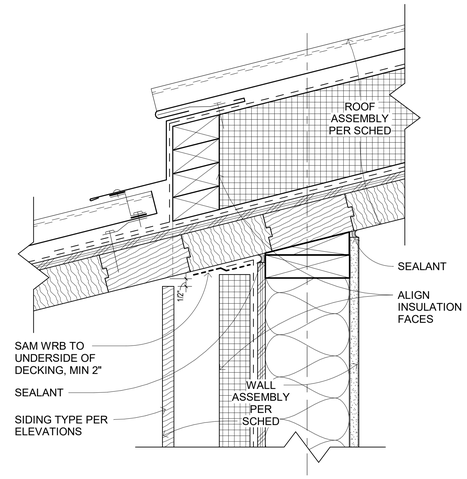
**A8.3**



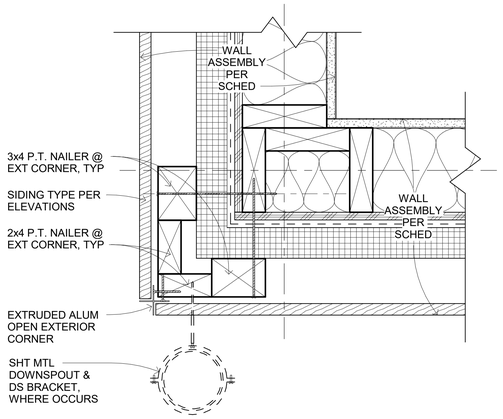

1 WOOD SIDING INT CORNER
3" = 1'-0"



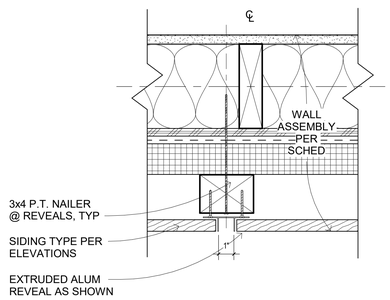

2 HEAD @ FIBERGLASS WINDOW
3" = 1'-0"



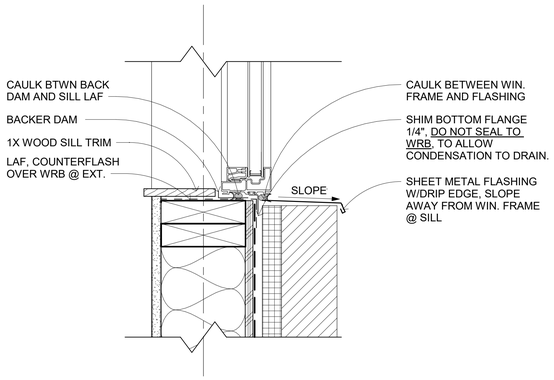

3 WOOD SIDING TOP OF WALL
3" = 1'-0"



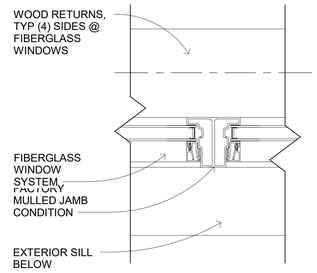

4 WOOD SIDING EXT CORNER
3" = 1'-0"



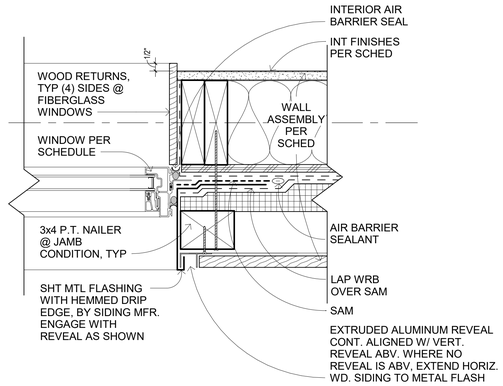

5 WOOD SIDING REVEAL
3" = 1'-0"



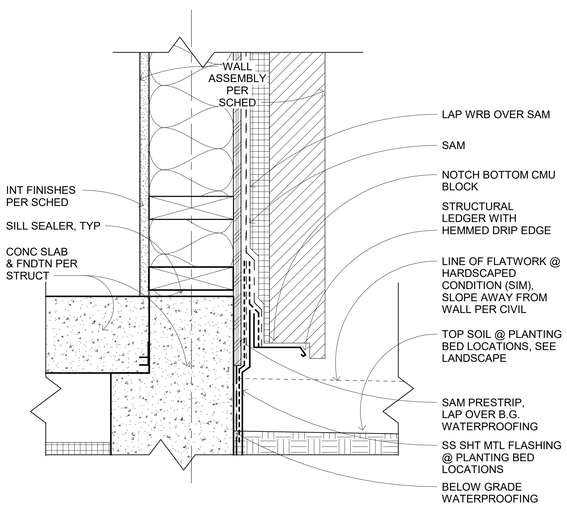

6 TYPICAL VINYL WINDOW SILL
3" = 1'-0"



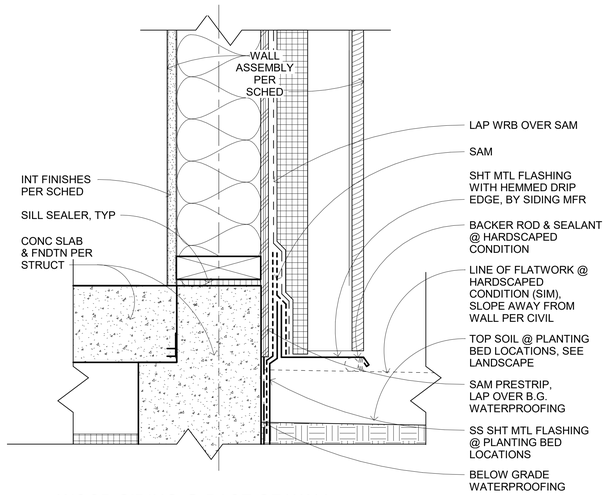

7 MULLED JAMB @ FIBERGLASS WINDOW
3" = 1'-0"




8 JAMB @ FIBERGLASS WINDOW
3" = 1'-0"




9 CMU SIDING BASE OF WALL
3" = 1'-0"




10 WOOD SIDING @ BASE OF WALL
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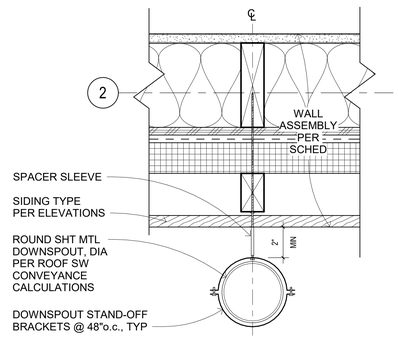


11 DOWNSPOUT
3" = 1'-0"


a|r|c ARCHITECTS
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|---|---|---|
| | | |

CONTENTS:

**EXTERIOR DETAILS**

| | |
|---|---|
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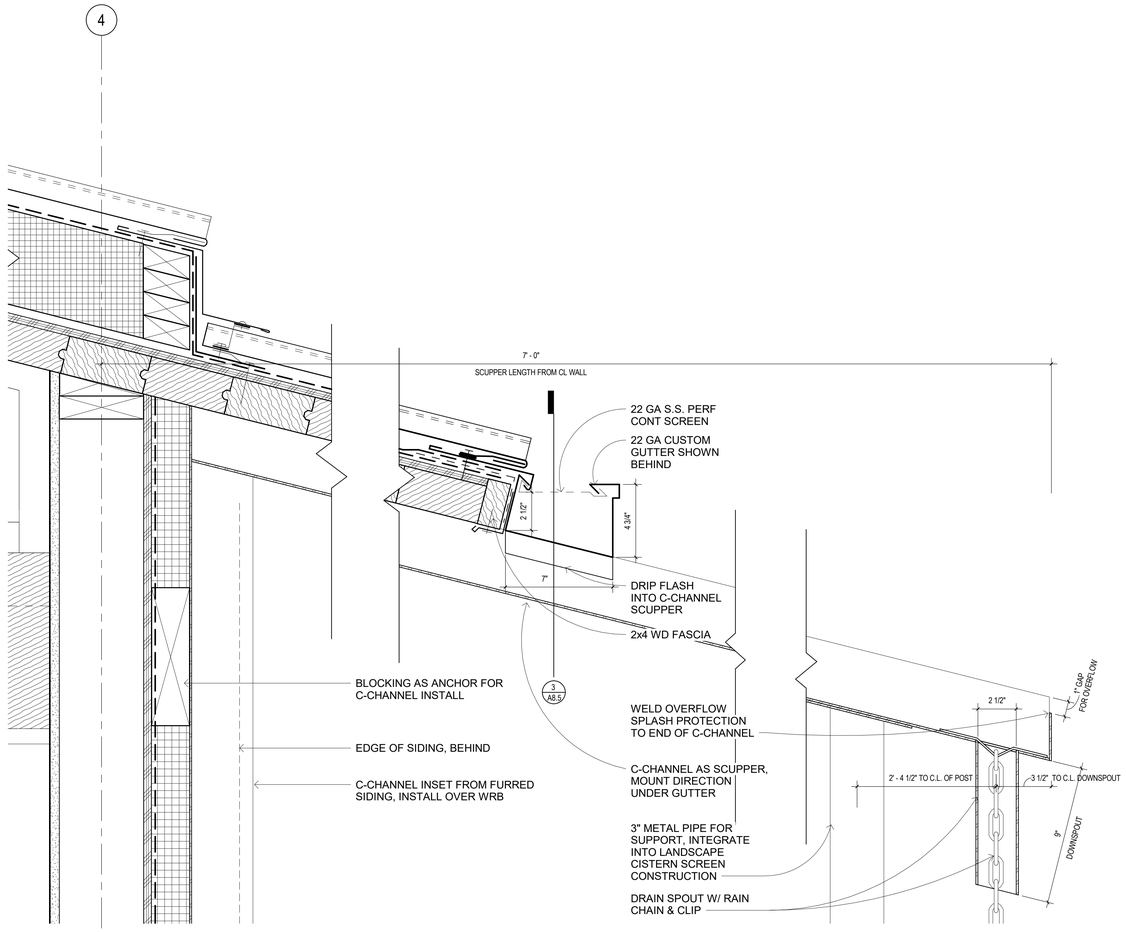
| DRAWN: | Author |
| CHECKED: | Checker |
| PROJECT NO: | 0000000.00 |

SHEET:

**A8.4**




1 SCUPPER SECTION DETAIL
ALTERNATE #2 (DEDUCTIVE)
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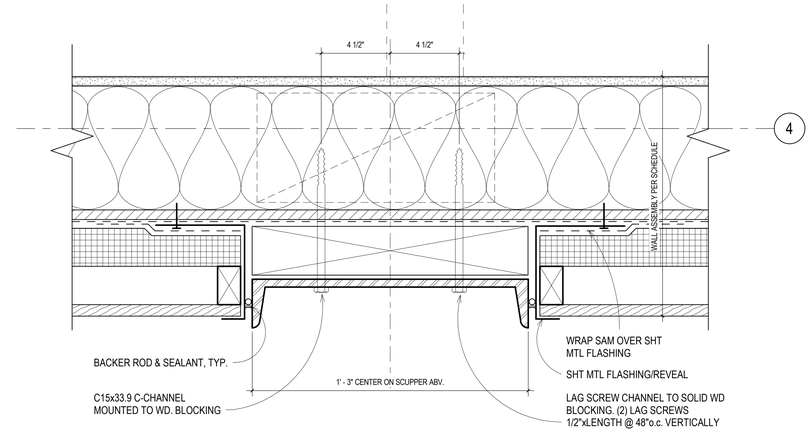


2 SCUPPER WALL SECTION
ALTERNATE #2 (DEDUCTIVE)
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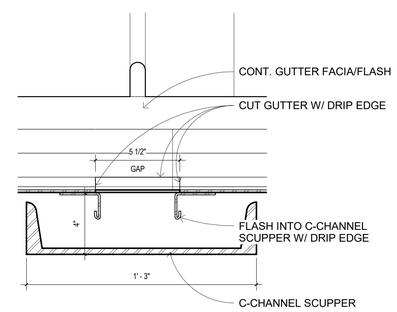


3 SCUPPER CROSS SECTION
ALTERNATE #2 (DEDUCTIVE)
3" = 1'-0"


a|r|c
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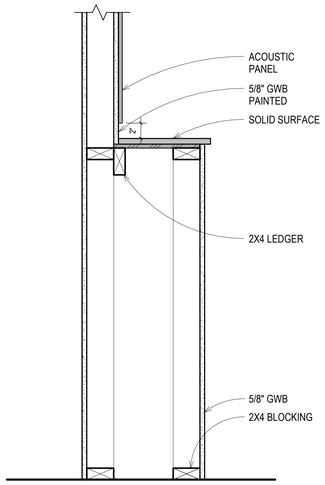
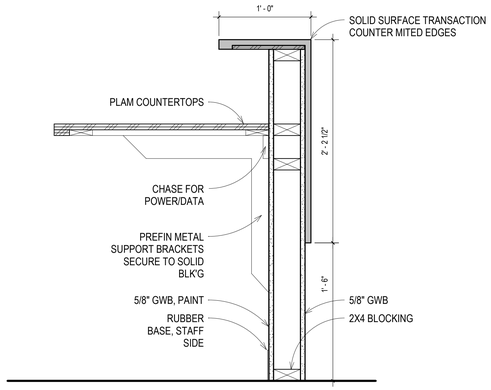
| DRAWN: | Author |
| CHECKED: | Checker |
| PROJECT NO: | 2020006.100 |

SHEET:

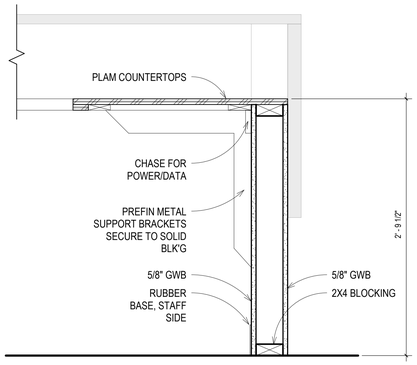
**A8.5**



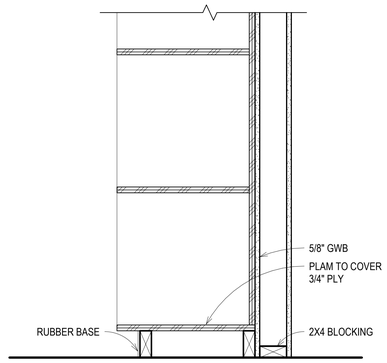

2 ACOUSTIC PANELS @ RECEPTION
1 1/2" = 1'-0"



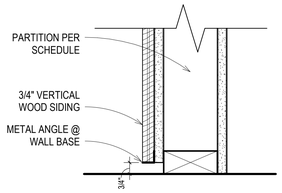

1 RECEPTION COUNTER SECTION
1 1/2" = 1'-0"



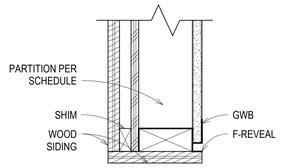

3 ADA COUNTER SECTION
1 1/2" = 1'-0"



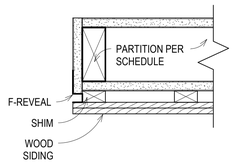

5 FITNESS ROOM CUBBIES
1 1/2" = 1'-0"



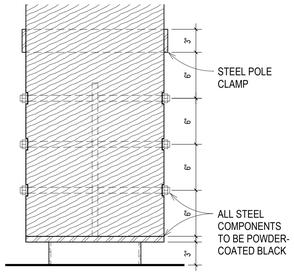

6 WOOD WALL BASE
3" = 1'-0"



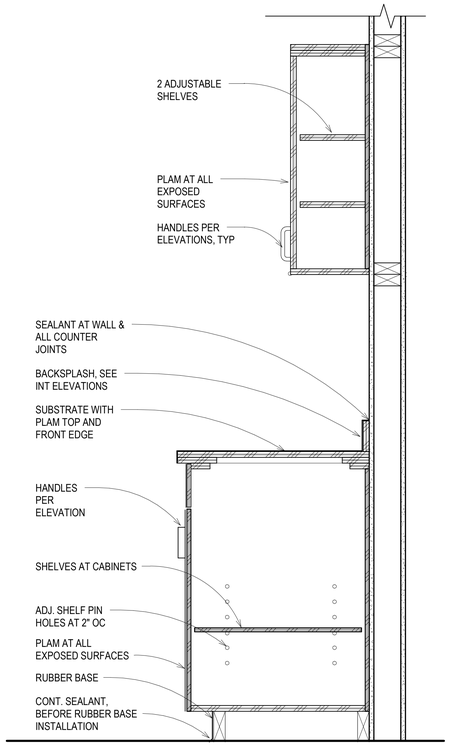

10 WOOD WALL CORNER DETAIL
3" = 1'-0"



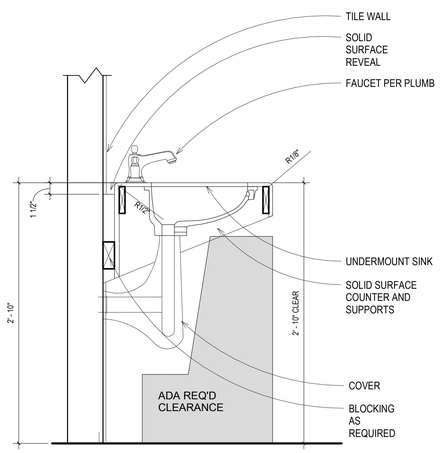

4 PORTAL JAMB DETAIL
3" = 1'-0"



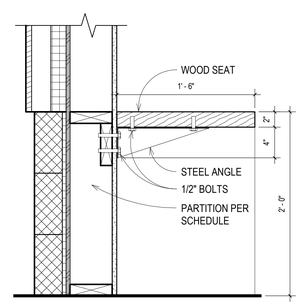

11 COLUMN FOOTING
1 1/2" = 1'-0"




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




9 RESTROOM COUNTER
1 1/2" = 1'-0"




12 BENCH SEAT
1 1/2" = 1'-0"


a|r|c ARCHITECTS
119 S MAIN ST
SUITE 200
SEATTLE, WA
98104-2579
206 322 3322


# The Chehalis Tribe
# Chehalis Elders Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: APRIL 16, 2021

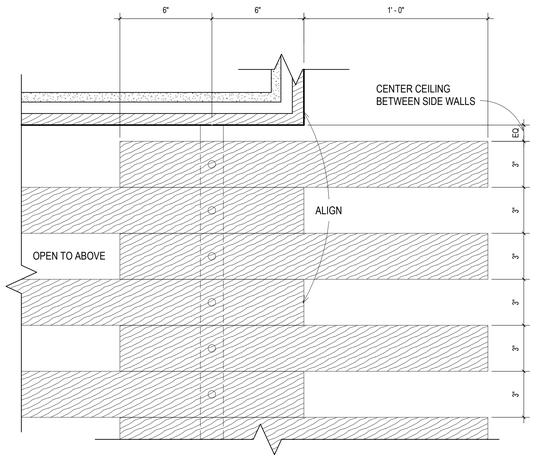
| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:
**INTERIOR DETAILS**

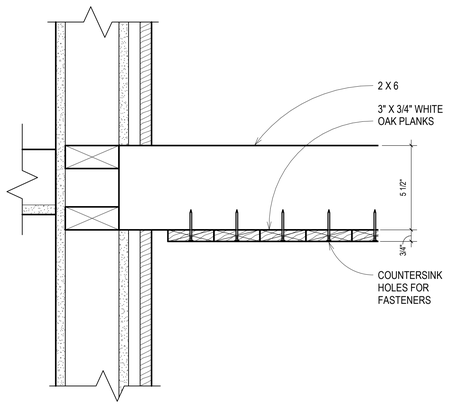
| | |
|---|---|
| SCALE: | As indicated |
| DRAWN: | MP / CNB |
| CHECKED: | EGW |
| PROJECT NO: | 2020006.100 |

SHEET:
**A9.1**

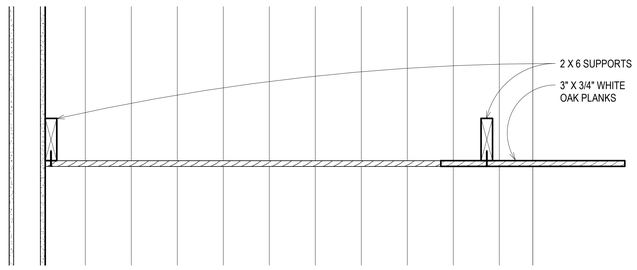
a|r|c
ARCHITECTS
119 S MAIN ST
SUITE 200
SEATTLE, WA
98104-2579
206 322 3322



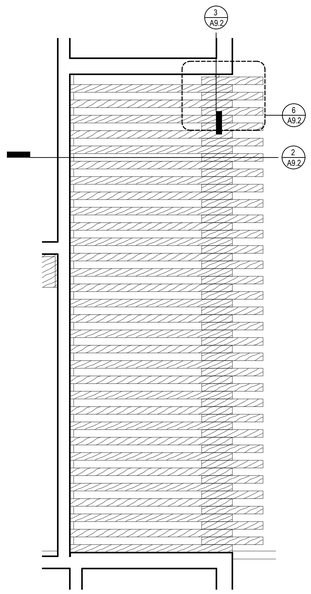

6 LINEAR WOOD CEILING
3" = 1'-0"




3 LINEAR WOOD CEILING SUPPORT @ SIDE WALL
3" = 1'-0"




2 LINEAR WOOD CEILING SECTION
1 1/2" = 1'-0"




1 FLOOR PLAN-RCP - LINEAR WOOD CEILING
1/2" = 1'-0"

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CONTENTS:

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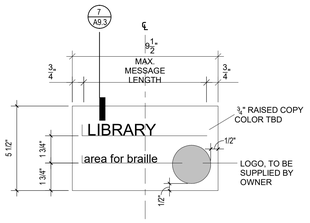
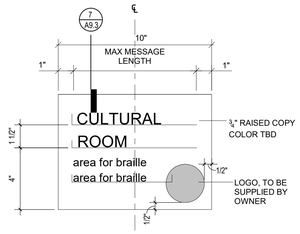
| | |
|---|---|
| SCALE: | As indicated |
| DRAWN: | MP |
| CHECKED: | PRC |
| PROJECT NO: | 2020006.100 |

SHEET:

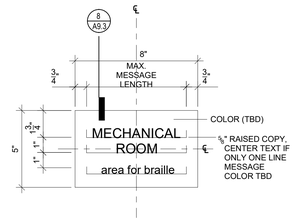
**A9.2**



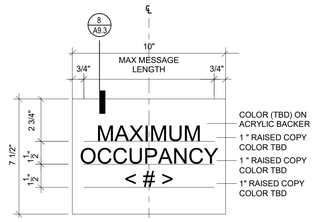

1 SIGN TYPE A.1- STD ROOM (1 LINE)
3" = 1'-0"



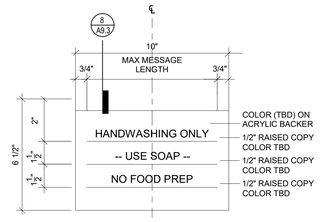

2 SIGN TYPE A.2-STD ROOM (2 LINE)
3" = 1'-0"



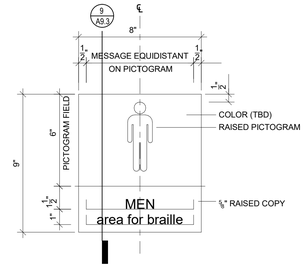

3 SIGN TYPE B.1
3" = 1'-0"



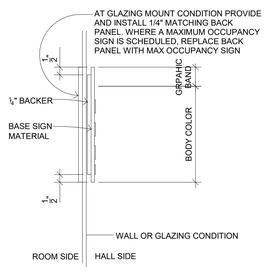

4 SIGN TYPE B.2 (DINING/CLASSROOM)
3" = 1'-0"



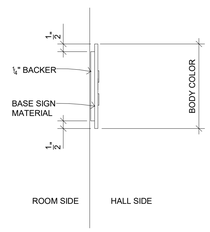

5 SIGN TYPE B.3 (KITCHEN)
3" = 1'-0"



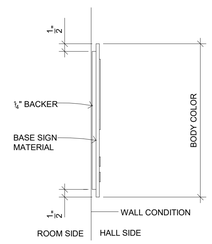

6 SIGN TYPE C.1
3" = 1'-0"



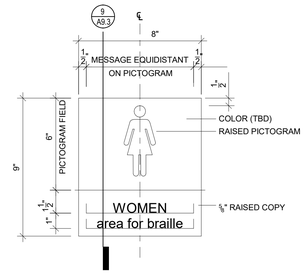

7 Section of SIGN TYPE A
3" = 1'-0"



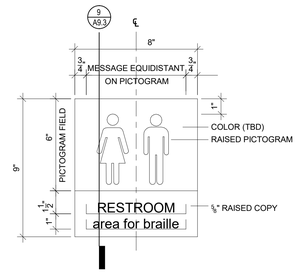

8 Section of SIGN TYPE B
3" = 1'-0"




9 Section of SIGN TYPE C
3" = 1'-0"




10 SIGN TYPE C.2
3" = 1'-0"

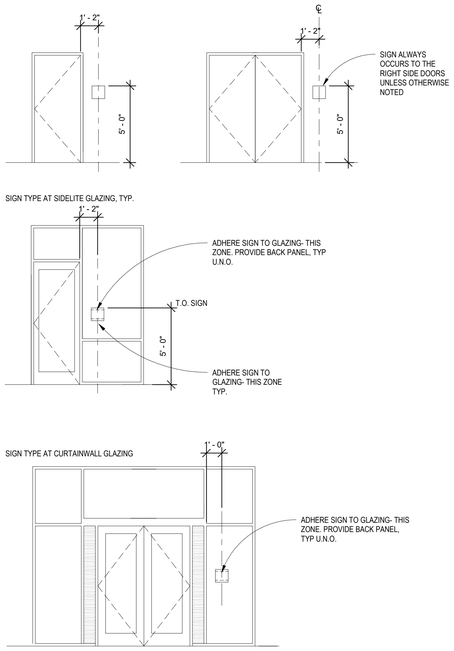



11 SIGN TYPE C.3
3" = 1'-0"

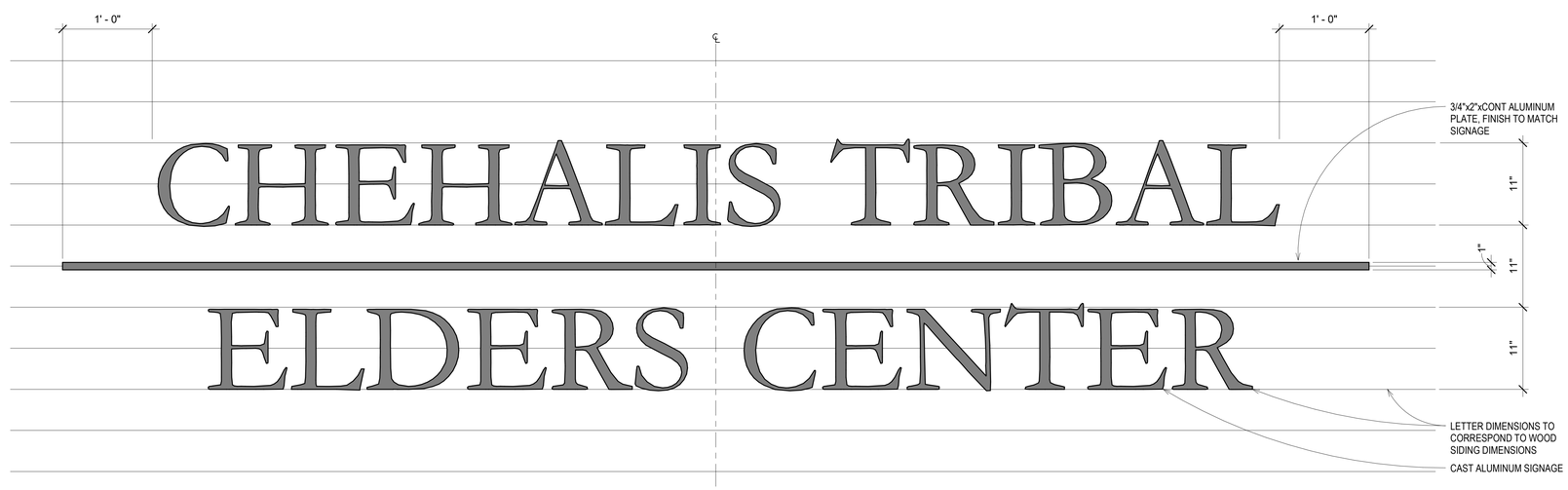
## SIGN INSTALLATION

SIGN NOTES:

1. ALL ROOMS TO RECEIVE A SIGN. FOR ROOMS WITH A DOOR SEE INSTALLATION BELOW. FOR ROOMS WIHOUT A DOOR, COORDINATE WITH ARCHITECT ON PLACEMENT.




12 SIGNAGE INSTALLATION
1/4" = 1'-0"




13 WEST ELEVATION - EXTERIOR SIGNAGE
1 1/2" = 1'-0"


arc ARCHITECTS
119 S MAIN ST
SUITE 200
SEATTLE, WA
98104-2579
206 322 3322


# The Chehalis Tribe Chehalis Elders Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:

**SIGNAGE**

| | |
|---|---|
| SCALE: | As indicated |
| DRAWN: | CS |
| CHECKED: | PC |
| PROJECT NO: | 2020006.100 |

SHEET:

**A9.3**

| ROOM FINISHES SCHEDULE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | FINISH | | | | | | |
| NUMBER | NAME | FLOOR | BASE | N WALL | E WALL | S WALL | W WALL | CEILING |
| TOP OF SLAB | | | | | | | | |
| 100 | VESTIBULE | WOM | AA | CW | IWC | CW | IWC | OTS |
| 101 | LOBBY/HALLS | CONC-1 | F-REVEAL/AA | CW/IWC/GWB | IWC/CW | OPEN/CW/IWC/GWB | IWC/CW | OTS |
| 102 | RECEPTION | CPT-1 | RBR | OPEN | OPEN/GWB | GWB/TB | GWB | GWB |
| 103 | OFFICE | CPT-1 | RBR | GWB | GWB | GWB | GWB | ACT 1 |
| 104 | OFFICE | CPT-1 | RBR | GWB | GWB | GWB | GWB | ACT 1 |
| 105 | MEDICAL | CPT-1 | RBR | GWB | GWB | GWB | GWB | ACT 1 |
| 106 | FITNESS | RES-1 | RBR | GWB | GWB | GWB | GWB/MIRROR | ACT 1 |
| 107 | JAN. | CONC-2 | RBR | GWB | GWB/FRP | GWB/FRP | GWB | GWB |
| 108 | FIT. UNI. | TILE-1 | TILE | TILE-A | GWB/TILE-A | GWB/TILE-A | GWB/TILE-A | GWB |
| 109 | WOMEN | TILE-1 | TILE | GWB/TILE-A | GWB/TILE-A | GWB/TILE-A | GWB/TILE-A | GWB |
| 110 | TV 1 | CPT-1 | RBR | GWB | GWB | GWB | GWB | ACT 1 |
| 111 | TV 2 | CPT-1 | RBR | GWB | GWB | GWB | GWB | ACT 1 |
| 112 | MEN | TILE-1 | TILE | GWB/TILE-A | GWB/TILE-A | GWB/TILE-A | GWB/TILE-A | GWB |
| 113 | LIBRARY | CONC-1/RES-3 | F-REVEAL/AA | OPEN | GWB/IWC | SF/CMU-1/CMU-2 | DISPLAY CASE/OPEN | OTS |
| 114 | CULTURAL ROOM | RES-3 | RBR | GWB | GWB | GWB | GWB | ACT-1 |
| 115 | STORAGE | RES-3 | RBR | GWB | GWB | GWB | GWB | ACT-1 |
| 116 | MEN | TILE-1 | TILE | TILE-A | TILE-A/TILE-B/MIRROR | GWB | GWB | GWB |
| 117 | WOMEN | TILE-1 | TILE | TILE-A | GWB | GWB | TILE-A/TILE-B/MIRROR | GWB |
| 118 | CLASSROOM | RES-3 | F-REVEAL | SF/GWB | OPEN | GWB | GWB | OTS |
| 119 | CLOSET | RES-3 | F-REVEAL | GWB | GWB | GWB | GWB | GWB |
| 120 | PART. ST. | RES-3 | F-REVEAL | GWB | GWB | GWB | GWB | OTS |
| 121 | DINING ROOM | RES-3 | F-REVEAL | SF/GWB | GWB | GWB | OPEN | OTS/GWB |
| 122 | UNI | TILE-1 | TILE | GWB/TILE-A | GWB/TILE-A | GWB/TILE-A | GWB/TILE-A | GWB |
| 123 | KITCHEN OFFICE | CPT-1 | RBR | GWB | GWB | GWB | GWB | ACT-1 |
| 124 | PANTRY | CONC-2 | RBR | GWB | GWB | GWB | GWB | GWB |
| 125 | MECH. | CONC-2 | RBR | GWB/PLY | GWB/PLY | GWB/PLY | GWB/PLY | OTS |
| 126 | STOR. | CONC-2 | RBR | GWB | GWB | GWB | GWB | GWB |
| 127 | IT | CONC-2 | RBR | GWB/PLY | GWB/PLY | GWB/PLY | GWB/PLY | GWB |
| 128 | ELEC. | CONC-2 | RBR | GWB/PLY | GWB/PLY | GWB/PLY | GWB/PLY | OTS |
| 129 | KITCHEN | RES-2 | COVED | GWB/SSP | GWB/SSP | GWB/SSP | GWB/SSP | ACT-2 |
| 130 | OUTDOOR DINING | CONC-2 | F-REVEAL/AA | IWC | GWB | SF/GWB | SF/GWB | OTS |
| 131 | FIRE RISER | CONC-2 | RBR | GWB/PLY | GWB/PLY | GWB/PLY | GWB/PLY | OTS |
| 132 | W.HALL | CONC-1 | F-REVEAL/AA | OPEN | SF/GWB/OPEN | SF/GWB | GWB/IWC | OTS, SLWC |
| 134 | IT CLO. | RES-1 | RBR | GWB | GWB | GWB | GWB | GWB |

LEGEND

| | |
|---|---|
| PT | EXTENT OF PAINT |
| ↔ | DIRECTION OF CARPET OR WOOD INSTALLATION |
| CG | CORNER GUARD |
| CMU | CONCRETE MASONRY UNIT |
| CONC | CONCRETE |
| CJ | CONTROL JOINT, SEE GENERAL NOTES |
| CW | CURTAIN WALL SYSTEM |
| FF | FACTORY FINISH |
| FP | FIELD APPLIED PAINT |
| GWB | GYPSUM WALL BOARD |
| IWC | INTERIOR WOOD CLADDING |
| OPEN | OPEN TO BEYOND |
| OTS | OPEN TO STRUCTURE |
| PLY | PLYWOOD PANELS |
| RBR | RUBBER BASE |
| RES | RESILIENT |
| SEAL | CLEAR SEALER |
| SF | STOREFRONT SYSTEM |
| SLWC | SUSPENDED LINEAR WOOD CEILING |
| SSP | STAINLESS STEEL PANEL |
| ST | STAIN |

## COMMENTS:

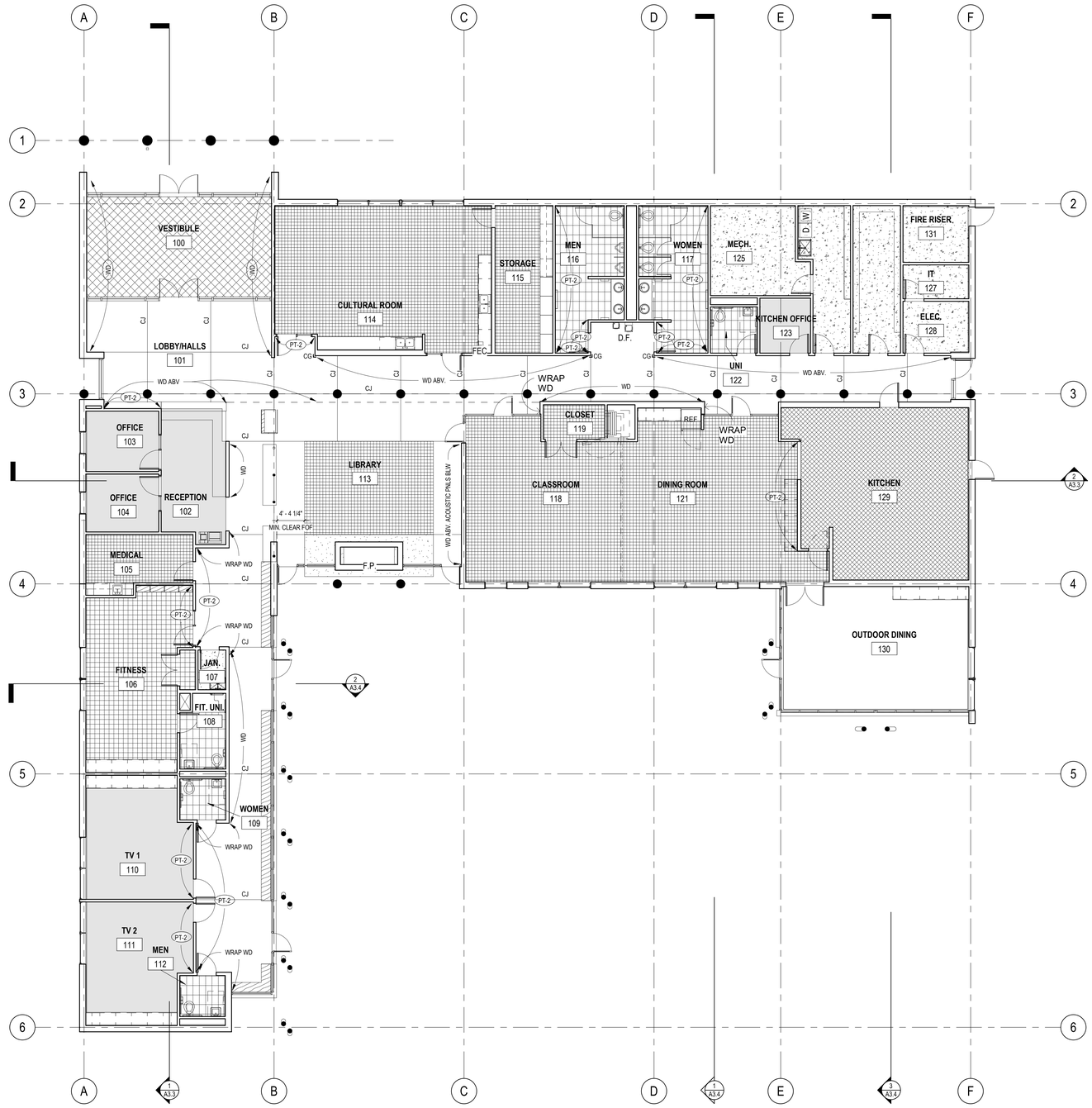
1. CASEWORK NOT INCLUDED IN THIS SCHEDULE. SEE INT ELEVS.
3. SSP PER FOOD SERVICE DRAWINGS/SPECIFICATIONS
4. PLY MOUNTING BOARDS PER ELEC REQUIREMENTS
5. MIRRORS PER INT ELEVATIONS
6. GWB SOFFIT WHERE OCCUR, SEE RCP
7. WOOD WALL FINISH PER INTERIOR ELEVATIONS
8. ACOUSTIC WALL PANELS PER INT ELEVS
9. ACOSUTIC CEILING BAFFLES PER RCP
10. SUSPENDED ACOUSTIC CELING PANELS PER RCP
11. SEE INT ELEVS FOR FULL EXTENT OF TILE TYPE AND PLACEMENT
12. BLUE-BOARD DRYWALL AT ALL PLLUMBING, SHOWER & TILE WALLS

## FINISH PLAN NOTES:

1. PAINT AT GWB WALLS TO BE PT-1, SATIN FINISH, U.O.N.
2. FINISH AT INTERIOR EXPOSED CARDECK CEILINGS TO BE CLEAR STAIN, U.O.N. .
3. ALL EXPOSED DUCTWORK, CONDUIT, GRILLES TO BE PAINTED
4. ONLY EXPOSED CONTROL AND ISOLATION JOINTS SHOWN IN THESE PLANS; SEE STRUCTURAL FOR ADDITIONAL ISOLATION, CONSTRUCTION, AND CONTRACT JOINT INFORMATION.

| COLOR SCHEDULE | | | | |
|---|---|---|---|---|
| **BUILDING COMPONENT** | **FINISH** | **COLOR** | **SHEEN** | **NOTES** |
| CAR DECKING AND GLU-LAM BEAMS | SEAL | CLEAR | LOW GLOSS | |
| 'BURNT' WOOD SIDING | FF | MFR'S CLEAR COAT, PER SPEC | PER SPEC | |
| STANDING SEAM METAL ROOF | FF | ZACTIQUE II | N/A | |
| SHEET METAL GUTTERS & DOWNSPOUTS | FF | MATCH ROOF PANELS | N/A | BY METAL PANEL MFR |
| STEEL GUTTER BRACKETS | HPC | PT-4 (GRAY) | LOW GLOSS | SELECTED TO MATCH ROOF PANEL COLOR |
| MISC STEEL CONNECTIONS | HPC | PT-3 (BRONZE) | LOW GLOSS | SELECTED FROM MFR STANDARD COLORS |
| HOLLOW METAL DOORS/FRAMES (EXT) | HPC | PT-3 (BRONZE) | SEMI GLOSS | SELECTED FROM MFR STANDARD COLORS |
| HOLLOW METAL DOORS/FRAMES (INT) | HPC | PT-X | SEMI GLOSS | TO MATCH SURROUNDING WALL |
| SHEET METAL FLASHING @ ROOF | FF | MATCH ROOF PANELS | N/A | BY METAL PANEL MFR |
| SHEET METAL FLASHING AT OPENINGS | FF | BRONZE | N/A | SELECTED FROM MFR STANDARD COLORS |
| FIBERGLASS WINDOWS | FF | BRONZE | N/A | SELECTED FROM MFR STANDARD COLORS |
| PEELER POLE COLUMNS | SEAL | CLEAR | LOW GLOSS | |
| CONCRETE MASONRY UNITS | SEAL | CLEAR | LOW GLOSS | |
| CURTAIN WALL SYSTEM | FF | PER SPEC (BRONZE) | N/A | SELECTED FROM MFR STANDARD COLORS |
| STOREFRONT SYSTEM | FF | PER SPEC (BRONZE) | N/A | SELECTED FROM MFR STANDARD COLORS |
| LIGHTED BOLLARDS | FF | PER SPEC (BRONZE) | N/A | SELECTED FROM MFR STANDARD COLORS |
| STEEL BOLLARDS | HPC | PT-3 (BRONZE) | LOW GLOSS | SELECTED FROM MFR STANDARD COLORS |
| MECHANICAL LOUVERS | FF | BRONZE | LOW GLOSS | SELECTED FROM MFR STANDARD COLORS |
| BROOMED CONCRETE FLOORS | SEAL | CLEAR | LOW GLOSS | |
| POLISHED CONCRETE FLOORS | SEAL | CLEAR | HIGH GLOSS | |
| SUSPENDED LINEAR WOOD CEILINGS | SEAL | CLEAR | LOW GLOSS | |
| MECHANICAL GRILLES (INTERIOR) | PT | PT-X | SEMI GLOSS | PAINT TO MATCH SURROUNDING WALL |
| GYPSUM WALL BOARDS WALLS, TYP U.N.O | PT | PT-1 (WHITE) | SEMI GLOSS | SELECTED FROM MFR STANDARD COLORS |
| GYPSUM WALL BOARD ACCENT WALLS | PT | PT-2 (ACCENT) | SEMI GLOSS | SELECTED FROM MFR STANDARD COLORS |
| GYPSUM WALL BOARD CEILINGS | PT | PT-1 (WHITE) | SEMI GLOSS | SELECTED FROM MFR STANDARD COLORS |
| | | | | |
| *GENERAL NOTE: UNLESS NOTED HERE, COLOR AND SHEEN ARE TYPICALLY DEFINED IN THE SPECIFICATIONS.* | | | | |

Color / Finish




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

FINISH GRAPHIC LEGEND

| | | | |
|---|---|---|---|
| CONCRETE 1 | CARPET | SHEET VINYL FLOORING | WALK-OFF MAT |
| CONCRETE 2 | LUXURY VINYL TILE FLOORING | FITNESS RUBBER FLOORING | TILE |


a|r|c ARCHITECTS
119 S MAIN ST
SUITE 200
SEATTLE, WA
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# The Chehalis Tribe Chehalis Elders Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:

**1st FLOOR FINISH PLAN**

| | |
|---|---|
| SCALE: | As indicated |
| DRAWN: | PRC |
| CHECKED: | SWL |
| PROJECT NO: | 2020006.100 |

SHEET:

**A10.1**

## SYMBOL LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| | COLD WATER PIPING |
| | WASTE PIPING |
| | PIPE DOWN |
| | PIPE UP |
| | BRANCH - TOP CONNECTION |
| | BRANCH - BOTTOM CONNECTION |
| | BRANCH - SIDE CONNECTION |
| | CAP END OF PIPE |
| | PIPE OR DUCT BREAK (GRAPHIC ONLY - CONTINUOUS PIPE/DUCT) |
| | FLOW DIRECTION |
| | GATE VALVE |
| | PRESSURE REDUCING VALVE |
| | CHECK VALVE |
| | TEMPERATURE & PRESSURE RELIEF VALVE |
| | BALL VALVE |
| | PETE'S PLUG |
| | SUCTION DIFFUSER |
| | CIRCUIT SETTER |
| | BALANCING VALVE |
| | FLEXIBLE DUCT |
| | VOLUME DAMPER |
| M | MOTORIZED DAMPER |
| | COMBINATION FIRE/SMOKE DAMPER WITH INTEGRATED DUCT SMOKE DETECTOR |
| | SMOKE DAMPER |
| | BACKDRAFT DAMPER |
| | FLEXIBLE DUCT CONNECTION |
| | TURNING VANES |
| | RETURN/EXHAUST/TRANSFER AIRFLOW |
| | SUPPLY AIRFLOW |
| T | THERMOSTAT |
| 12X12 CD-1<br>100 27 | DIFFUSER CALLOUT (SIZE, TYPE, CFM, 50 FPM THROW) |
| 12/12 DL | DOOR LOUVER W/ SIZE |

| SYMBOL | DESCRIPTION |
|---|---|
| | DUCT UP (ROUND) |
| | DUCT DOWN (ROUND) |
| 12/12 DL | DOOR LOUVER W/ SIZE |
| TE | TEMPERATURE SENSOR |
| TI | TEMPERATURE GAUGE |
| PI | PRESSURE GAUGE |
| DP | DIFFERENTIAL PRESSURE SENSOR |
| VFD | VARIABLE FREQUENCY DRIVE |
| | FLEXIBLE PIPE CONNECTION |
| | EXPANSION JOINT |
| | AUTOMATIC OR MANUAL AIR VENT |
| | REDUCER |
| | STRAINER |
| | STRAINER W/ BLOWDOWN VALVE & 3/4" HOSE CONNECTION |
| | UNION |
| M | METER |
| | FUNNEL DRAIN |
| | SUPPLY AIR DUCT UP |
| | EXHAUST/RETURN AIR DUCT UP |
| | OUTSIDE AIR DUCT UP |
| | SUPPLY AIR DUCT DOWN |
| | EXHAUST/RETURN AIR DUCT DOWN |
| | OUTSIDE AIR DUCT DOWN |
| | SOUNDLINED DUCT |
| | DUCT UP (ROUND) |
| | DUCT DOWN (ROUND) |
| | CEILING AIR TERMINAL (ROUND) |
| | CEILING AIR TERMINAL (SQUARE) |
| | VOLUME DAMPER |
| M | MOTORIZED DAMPER |
| | COMBINATION FIRE/SMOKE DAMPER WITH INTEGRATED DUCT SMOKE DETECTOR |
| | BACKDRAFT DAMPER |

## ABBREVIATIONS LIST

| | |
|---|---|
| °F | DEGREES FAHRENHEIT |
| (E) | EXISTING |
| A/E | ARCHITECT/ENGINEER |
| AABC | ASSOCIATED AIR BALANCE COUNCIL |
| ABV | ABOVE |
| AFF | ABOVE FINISHED FLOOR |
| AFUE | ANNUAL FUEL UTILIZATION EFFICIENCY |
| AMP | AMPERES |
| ASJ | ALL SERVICE JACKET |
| ASME | AMERICAN SOCIETY OF MECHANICAL ENGINEERS |
| BC | BRANCH CIRCUIT CONTROLLER |
| BTU | BRITISH THERMAL UNIT |
| BTUH | BRITISH THERMAL UNITS PER HOUR |
| CAP | CAPACITY |
| CFM | CUBIC FEET PER MINUTE |
| COP | COEFFICIENT OF PERFORMANCE |
| CPVC | CHLORINATED POLYVINYL CHLORIDE |
| CV | COEFFICIENT OF FLOW |
| CW | COLD WATER |
| DB | DRY BULB |
| DDC | DIRECT DIGITAL CONTROL |
| DEG | DEGREE (FAHRENHEIT) |
| DIA | DIAMETER |
| DISCH | DISCHARGE |
| DN | DOWN |
| EA | EXHAUST AIR |
| EAT | ENTERING AIR TEMPERATURE (DEGREES FAHRENHEIT) |
| EC | ELECTRICAL CONTRACTOR |
| EDB | ENTERING DRY BULB TEMPERATURE (DEGREES FAHRENHEIT) |
| EER | ENERGY EFFICIENCY RATIO |
| EFF | EFFICIENCY |
| ELEC | ELECTRICAL |
| EMCS | ENERGY MANAGEMENT/CONTROL SYSTEM |
| ESP | EXTERNAL STATIC PRESSURE |
| EWB | ENTERING WET BULB TEMPERATURE (DEGREES FAHRENHEIT) |
| EWT | ENTERING WATER TEMPERATURE (DEGREES FAHRENHEIT) |
| EXH | EXHAUST |
| F | FAHRENHEIT |
| FLA | FULL LOAD AMPERES |
| FLR | FLOOR |
| FPM | FEET PER MINUTE |
| FT | FEET |
| GA | GAUGE |
| GAL | GALLON |
| GC | GENERAL CONTRACTOR |
| GPD | GALLONS PER DAY |
| GPH | GALLONS PER HOUR |
| GPM | GALLONS PER MINUTE |
| GYP | GYPSUM |
| H | HEIGHT |
| HP | HORSEPOWER |
| HSPF | HEATING SEASON PERFORMANCE FACTOR |
| HR | HOUR |
| HWR | HEATING WATER RETURN |
| HWS | HEATING WATER SUPPLY |
| IBC | INTERNATIONAL BUILDING CODE |
| IEER | INTEGRATED ENERGY EFFICIENCY RATIO |
| IMC | INTERNATIONAL MECHANICAL CODE |
| IN | INCH |
| IPLV | INTEGRATED PART LOAD VALUE |
| KW | KILOWATT |
| L | LENGTH |
| LAT | LEAVING AIR TEMPERATURE (DEGREES FAHRENHEIT) |
| LB | POUND |
| LBS | POUNDS |
| LWT | LEAVING WATER TEMPERATURE (DEGREES FAHRENHEIT) |
| MAX | MAXIMUM |
| MBH | THOUSAND BRITISH THERMAL UNITS PER HOUR |
| MC | MECHANICAL CONTRACTOR |
| MCA | MINIMUM CIRCUIT AMPACITY |
| MERV | MINIMUM ENERGY REPORTING VALUE |
| MFR | MANUFACTURER |
| MIN | MINIMUM |
| MOCP | MAXIMUM OVERCURRENT PROTECTION |
| MRT | MEAN RADIANT TEMPERATURE |
| N/A | NOT APPLICABLE |
| NC | NOISE CRITERIA |
| NFPA | NATIONAL FIRE PROTECTION ASSOCIATION |
| NPLV | NON-STANDARD PART LOAD VALUE |
| NPSHR | NOMINAL PUMP SUCTION HEAD REQUIRED |
| OA | OUTSIDE AIR |
| OSA | OUTSIDE AIR |
| PB | PRESSURE BALANCE |
| PD | PRESSURE DROP |
| PH | PHASE |
| PSI | POUNDS PER SQUARE INCH |
| PSID | POUNDS PER SQUARE INCH DIFFERENTIAL |
| PSIG | POUNDS PER SQUARE INCH GAUGE |
| PVC | POLYVINYL CHLORIDE |
| RM | ROOM |
| RPM | REVOLUTIONS PER MINUTE |
| SEER | SEASONAL ENERGY EFFICIENCY RATIO |
| SENS | SENSIBLE |
| SMACNA | SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION |
| SP | STATIC PRESSURE |
| SPWG | STATIC PRESSURE (INCHES WATER GUAGE) |
| SQ FT | SQUARE FEET |
| T | TEMPERATURE |
| TD | TEMPERATURE DROP |
| TDH | TOTAL DYNAMIC HEAD |
| TEMP | TEMPERATURE |
| TYP | TYPICAL |
| V | VOLT |
| VFD | VARIABLE FREQUENCY DRIVE |
| VRF | VARIABLE REFRIGERANT FLOW |
| W/ | WITH |
| W | WATT |
| WB | WET BULB |
| WC | WATER COLUMN |
| WI | WIDTH |

## GENERAL NOTES

1. PROVIDE SYSTEM STARTUP, TESTING, ADJUSTMENTS, AND REPORTS TO MEET MINIMUM REQUIREMENTS OF WASHINGTON STATE ENERGY CODE - COMMERCIAL PROVISIONS SECTION C408.
2. CONTRACTOR SHALL SUPPORT SYSTEM COMMISSIONING AND SHALL COORDINATE WITH PROJECT COMMISSIONING AGENT.
3. CONTRACTOR SHALL PROVIDE ALL DOCUMENTATION REQUIRED TO SUPPORT SYSTEM COMMISSIONING.
4. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND CONSTRUCTION FEES. FURNISH COPIES OF ALL CONSTRUCTION PERMITS, FINAL APPROVED PERMITS, AND SIMILAR DOCUMENTS TO OWNER DOCUMENTING COMPLIANCE WITH CODE REQUIREMENTS.
5. PROVIDE EACH ZONE WITH THERMOSTATIC CONTROLS THAT PROVIDE A DEADBAND OF AT LEAST 5 DEGREES FAHRENHEIT IN WHICH HEATING AND COOLING ENERGY IS CAPABLE OF BEING SHUT OFF OR REDUCED TO A MINIMUM. THERMOSTATS SHALL BE CAPABLE OF THERMOSTATIC SETBACK, AUTOMATIC SETBACK AND SHUTDOWN, AND AUTOMATIC START CAPABILITIES PER WASHINGTON STATE ENERGY CODE SECTION C403.2.4.3.
6. PROVIDE ENERGY METERING DEVICES FOR ELECTRICAL, PROPANE GAS SUPPLY, AND SITE GENERATED RENEWABLE ENERGY PER WASHINGTON STATE ENERGY CODE SECTION C409 AND SPECIFICATIONS. ELECTRICAL METERING IS PER ELECTRICAL DOCUMENTS. DISPLAY SHALL BE WEB BASE ACCESSIBLE THROUGH THE BUILDING MANAGEMENT SYSTEM. SEE SPECIFICATIONS.
7. LOCATE ALL VALVES, TRAPS, TEST PORTS, DAMPERS, CONTROLS, CLEANOUTS, ETC. TO BE ACCESSIBLE FOR MAINTENANCE, ADJUSTMENT, & TESTING. PROVIDE ACCESS PANELS FOR ALL CONCEALED DEVICES. ACCESS PANEL LOCATIONS SHALL BE COORDINATED WITH ARCHITECT.
8. ALL PIPING & DUCTWORK IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE THE SUSPENDED CEILING SYSTEM. REFER TO ARCHITECTURAL DOCUMENTS FOR FURRING & CHASE LOCATIONS & SIZES.
9. ALL PIPING ROUTED EXPOSED IN AREAS ADJACENT TO VEHICLE TRAFFIC SHALL BE PROVIDED WITH STEEL PIPE PROTECTION (BOLLARDS, GUARD RAILS, PLATING, OR SIMILAR).
10. THE FIRST FIGURE OF DUCT SIZE CALLOUTS INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZES ARE NET INSIDE DIMENSIONS. PROVIDE ANY APPLICABLE DUCT LINING AND INSULATION PER THESE PLANS AND SPECIFICATIONS. NOMINAL OUTER DUCT DIMENSIONS ARE NET INSIDE DIMENSIONS PLUS 2X INSULATION THICKNESS.
11. DUCTWORK SHALL BE 2.0" PRESSURE CLASS UNLESS OTHERWISE NOTED ON THESE DRAWINGS.
12. CONSTRUCT DUCTWORK ACCORDING TO WASHINGTON STATE ENERGY CODE SECTION C403.2.7.3.
13. PROVIDE TURNING VANES IN ALL MITERED RECTANGULAR DUCT ELBOWS & TEES.
14. PROVIDE MANUAL BALANCING DAMPERS ON ALL NEW DUCT BRANCHES TO AIR INLETS & OUTLETS. LOCATE DAMPERS AS CLOSE TO MAIN TRUNK DUCT CONNECTION AS POSSIBLE. WHERE BRANCH DUCTWORK IS INACCESSIBLE (SUCH AS ABOVE HARD LID CEILING SYSTEM), PROVIDE BALANCING DAMPER AT REGISTER, GRILLE, OR DIFFUSER.
15. PROVIDE MOTORIZED DAMPERS ON OUTDOOR AIR SUPPLY, AND EXHAUST OPENINGS, AND RELIEF OUTLETS. DAMPERS SHALL HAVE A MAXIMUM LEAKAGE RATE OF 4 CFM PER SQUARE FOOT AT 1" W.C.
16. RELIEF GRAVITY DAMPERS SHALL HAVE A MAXIMUM LEAKAGE RATE OF 20 CFM PER SQUARE FOOT AT 1" W.C. DAMPERS SMALLER THAN 24" IN EITHER DIRECTION SHALL HAVE A MAXIMUM LEAKAGE RATE OF 40 CFM PER SQUARE FOOT AT 1" W.C.
17. PIPING & DUCTWORK SHALL BE ROUTED SO AS NOT TO OBSTRUCT ACCESS OR CAUSE TRIPPING OR OTHER HAZARDS.
18. PIPING & DUCTWORK SHALL BE ROUTED SO AS TO MAINTAIN CODE-REQUIRED CLEARANCES FOR ELECTRICAL EQUIPMENT, ADA ACCESSIBILITY, AS WELL AS MAINTAINING CLEAR ACCESS AT ALL DOORS, WINDOWS, & OTHER ARCHITECTURAL FEATURES IN THE BUILDING.
19. SIZE REFRIGERANT PIPING ON SPLIT SYSTEM UNITS PER MANUFACTURER'S RECOMMENDATION.
20. TOTAL STATIC PRESSURE NOTED IN SCHEDULES SHALL BE ASSUMED TO INCLUDE DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC.
21. ALL SUPPLY AIR FILTERS SHALL BE MERV-13 RATED. ALL RETURN/EXHAUST/OUTSIDE AIR FILTERS SHALL BE MERV-13 RATED.
22. AIR INLET & OUTLET SIZES SHOWN ON PLANS ARE NECK SIZES. PROVIDE ADDITIONAL PANS, HARDWARE, ETC., REQUIRED TO INSTALL AIR INLETS & OUTLETS IN CEILING SYSTEM.
23. WALL REGISTER-TYPE AIR INLETS & OUTLETS SHALL BE INSTALLED AT 7" AFF MINIMUM ELEVATION.
24. AIR INLETS & OUTLETS IN UNFINISHED SPACES OR OPEN CEILING AREAS SHALL BE INSTALLED AT 9'-0" AFF UNLESS OTHERWISE NOTED ON THESE DRAWINGS.
25. ALL PRESSURES LISTED ARE GAGE PRESSURES UNLESS OTHERWISE NOTED.
26. PROVIDE MANUAL/AUTOMATIC AIR VENTS AT ALL LOCAL HIGH POINTS FOR HYDRONIC WATER SYSTEMS.
27. PROVIDE SEISMIC SUPPORT, BRACING, AND ATTACHMENTS FOR DUCTWORK, PIPING, AND EQUIPMENT.
28. COORDINATE ALL MECHANICAL WORK WITH OTHER TRADES TO INSURE PROPER AND ADEQUATE INTERFACE OF THEIR WORK WITH THE WORK SHOWN ON THESE DOCUMENTS. CONTRACTOR SHALL PROVIDE COORDINATED SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION.
29. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 70 STANDARDS AND LOCAL REQUIREMENTS.
30. ALL FIELD WIRING SHALL REQUIRE AN ELECTRICAL PERMIT AND SHALL BE PERFORMED BY A LICENSED ELECTRICIAN.
31. A SHORT DASH IN A SCHEDULE TABLE CELL INDICATES THAT THE COLUMN HEADING IS NOT USED OR NOT APPLICABLE TO THAT SCHEDULED ITEM.


a|r|c ARCHITECTS
119 S MAIN ST
SUITE 200
SEATTLE, WA
98104-2579
206 322 3322


KEVIN H. TAKAYESU
STATE OF WASHINGTON
0052287 04/16/2021
REGISTERED PROFESSIONAL ENGINEER

# The Chehalis Tribe Chehalis Elder Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: 04/16/2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
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| | | |
| | | |
| | | |
| | | |

CONTENTS:

**LEGEND, ABBREVIATIONS LIST, & GENERAL NOTES**

SCALE: 12" = 1'-0"
DRAWN: KBT
CHECKED: KHT
PROJECT NO: 20-034

SHEET:

**M001**

## AIR TO AIR HEAT RECOVERY UNIT SCHEDULE

| SYMBOL | MANUFACTURER | MODEL | SERVES | SUPPLY FAN | | | EXHAUST FAN | | | SUMMER CONDITIONS | | | | | | WINTER OUTSIDE AIR CONDITIONS | | | | | | EXCHANGE EFFICIENCY | | | FILTER | ELECTRICAL | | | | WEIGHT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | OUTSIDE AIR | | | | RETURN | | OUTSIDE AIR | | | RETURN AIR | | | | | | | | | | | | |
| | | | | CFM | MOTOR | ESP (IN) | CFM | MOTOR | ESP (IN) | EDB | EWB | LDB | LWB | EDB | LDB | EDB | EWB | LDB | LWB | EDB | LDB | TEMPERATURE % | ENTHALPY COOLING % | ENTHALPY HEATING % | | VOLT | PHASE | MCA | MOCP | (LBS) | |
| ERV-1 | MITSUBISHI | LGH-F470RVX-E | FITNESS/TV | 385 | EC | 0.37 | 385 | EC | 0.37 | 87.00 | 67.00 | 78.40 | 64.10 | 75.00 | - | 18.00 | 14.80 | 54.70 | - | 75.00 | - | 73.00 | 57.00 | 69.00 | MERV 16 | 208 | 1 | 3.1 | 15 | 123 | 1 |
| ERV-2 | MITSUBISHI | LGH-F300RVX-E | LOBBY/RECEPT | 175 | EC | 0.20 | 175 | EC | 0.20 | 87.00 | 67.00 | 78.60 | 64.20 | 75.00 | - | 18.00 | 14.80 | 53.60 | - | 75.00 | - | 75.00 | 66.50 | 68.40 | MERV 16 | 208 | 1 | 2.05 | 15 | 75 | 1 |
| ERV-3 | MITSUBISHI | LGH-F600RVX-E | CULTURAL RM/ LIBRARY | 490 | EC | 0.40 | 490 | EC | 0.20 | 87.00 | 67.00 | 78.50 | 64.10 | 75.00 | - | 18.00 | 14.80 | 54.40 | - | 75.00 | - | 72.00 | 60.00 | 70.00 | MERV 16 | 208 | 1 | 3.6 | 15 | 123 | 1 |
| ERV-4 | MITSUBISHI | LGH-F600RVX-E | MAINT/MECH/HALL | 550 | EC | 0.37 | 550 | EC | 0.37 | 87.00 | 67.00 | 78.60 | 64.20 | 75.00 | - | 18.00 | 14.80 | 53.70 | - | 75.00 | - | 73.00 | 56.50 | 68.50 | MERV 16 | 208 | 1 | 3.6 | 15 | 123 | 1 |
| ERV-5 | MITSUBISHI | LGH-F1200RVX-E | CLASSROOM / DINING ROOM / KITCHEN | 890 | EC | 0.33 | 890 | EC | 0.40 | 87.00 | 67.00 | 78.30 | 64.10 | 75.00 | - | 18.00 | 14.80 | 55.00 | - | 75.00 | - | 71.00 | 54.00 | 66.00 | MERV 16 | 208 | 1 | 6.4 | 15 | 251 | 1 |

NOTES:

1. THE ERV SHALL BE EQUIPPED WITH FACTORY INSTALLED WASHABLE AIR FILTERS LOCATED AT EACH INTAKE FACE (BOTH SUPPLY AND EXHAUST SIDES) OF THE HEAT EXCHANGER ELEMENT TO CLEAN THE AIR AND PREVENT CLOGGING.

## VRF INDOOR FAN COIL UNIT SCHEDULE

| SYMBOL | MANUFACTURER | MODEL | TYPE | SERVES | SERVED BY (OUTDOOR UNIT) | SERVED BY (BC CONTROLLER) | SUPPLY FAN | | | | COOLING | | | | | | | | | HEATING | | | | | | | MIN OA (CFM) | FILTER | ELECTRICAL | | | | WEIGHT (LBS) | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | CFM | RPM | ESP | HP | NOMINAL BTU (TOTAL) | CORRECTED BTU (TOTAL) | CORRECTED BTU (SENS) | EDB (°F) | EWB (°F) | DESIGN LAT (°F) | RM SP (°F) | OA (°F) DB | OA (°F) WB | NOMINAL BTU (TOTAL) | CORRECTED BTU (TOTAL) | EDB (°F) | EWB (°F) | DESIGN LAT (°F) | RM SP (°F) | OA DB (°F) | | | VOLT | PHASE | MCA | MOCP | | |
| IU-1 | TRANE/MITSUBISHI | TPLFY012FM140A | CEILING CASSETTE | TV-2 | OU-1 | BC-1 | 280 | - | - | - | 12,000.00 | 11,945.50 | 8,167.10 | 80 | 67 | 57.2 | 75 | 80 | - | 13,500.00 | 10,486.00 | 70 | - | 96.6 | 75 | 51.2 | 50 | - | 208 | 1 | 0.29 | 15 | 37 | |
| IU-2 | TRANE/MITSUBISHI | TPLFY012FM140A | CEILING CASSETTE | TV-1 | OU-1 | BC-1 | 280 | - | - | - | 12,000.00 | 11,945.50 | 8,167.10 | 80 | 67 | 57.2 | 75 | 80 | - | 13,500.00 | 10,486.00 | 70 | - | 96.6 | 75 | 51.2 | 50 | - | 208 | 1 | 0.29 | 15 | 37 | |
| IU-3 | TRANE/MITSUBISHI | TPEFYP036MA143A | DUCTED CONCEALED | HALL | OU-1 | BC-1 | 900 | - | 0.20 | - | 36,000.00 | 35,884.10 | 28,171.20 | 80 | 67 | 57.3 | 75 | 80 | - | 40,000.00 | 31,061.00 | 70 | - | 92.6 | 75 | 51.2 | 150 | MERV 13 | 208 | 1 | 3.51 | 15 | 86 | |
| IU-4 | TRANE/MITSUBISHI | TPEFYP015MA143A | DUCTED CONCEALED | FITNESS | OU-1 | BC-1 | 420 | - | 0.20 | - | 15,000.00 | 14,872.50 | 11,588.60 | 80 | 67 | 58.2 | 75 | 80 | - | 17,000.00 | 13,227.30 | 70 | - | 90.4 | 75 | 51.2 | 135 | MERV 13 | 208 | 1 | 1.45 | 15 | 58 | |
| IU-5 | TRANE/MITSUBISHI | TPLFY005FM140A | CEILING CASSETTE | MEDICAL | OU-1 | BC-1 | 230 | - | - | - | 5,000.00 | 4,970.70 | 4,436.00 | 80 | 67 | 65.2 | 75 | 80 | - | 5,600.00 | 4,350.20 | 70 | - | 82.7 | 75 | 51.2 | 50 | - | 208 | 1 | 0.24 | 15 | 35 | |
| IU-6 | TRANE/MITSUBISHI | TPLFY005FM140A | CEILING CASSETTE | OFFICE | OU-1 | BC-1 | 230 | - | - | - | 5,000.00 | 4,970.70 | 4,436.00 | 80 | 67 | 65.2 | 75 | 80 | - | 9,000.00 | 6,992.50 | 70 | - | 82.7 | 75 | 51.2 | 30 | - | 208 | 1 | 0.24 | 15 | 35 | |
| IU-7 | TRANE/MITSUBISHI | TPLFY005FM140A | CEILING CASSETTE | OFFICE | OU-1 | BC-1 | 230 | - | - | - | 5,000.00 | 4,970.70 | 4,436.00 | 80 | 67 | 65.2 | 75 | 80 | - | 9,000.00 | 6,992.50 | 70 | - | 82.7 | 75 | 51.2 | 30 | - | 208 | 1 | 0.24 | 15 | 35 | |
| IU-8 | TRANE/MITSUBISHI | TPEFYP024MA143A | DUCTED CONCEALED | LOBBY/REC | OU-1 | BC-1 | 720 | - | 0.28 | - | 24,000.00 | 23,954.40 | 19,344.40 | 80 | 67 | 57.3 | 75 | 80 | - | 27,000.00 | 20,968.50 | 70 | - | 96.6 | 75 | 51.2 | 80 | MERV 13 | 208 | 1 | 2.73 | 15 | 67 | |
| IU-9 | TRANE/MITSUBISHI | TPEFYP048MH142A | DUCTED CONCEALED | LIBRARY/HALL | OU-2 | BC-2 | 1,020 | - | 0.50 | - | 48,000.00 | 47,223.50 | 33,028.10 | 80 | 67 | 58.4 | 75 | 80 | - | 54,000.00 | 55,183.60 | 70 | - | 99.9 | 75 | 51.2 | 290 | MERV 13 | 208 | 1 | 4.16 | 15 | 153 | |
| IU-10 | TRANE/MITSUBISHI | TPEFYP015MA143A | DUCTED CONCEALED | CULTURAL RM | OU-2 | BC-2 | 420 | - | 0.40 | - | 15,000.00 | 14,780.40 | 11,747.80 | 80 | 67 | 59.4 | 75 | 80 | - | 17,000.00 | 18,034.00 | 70 | - | 93.8 | 75 | 51.2 | 175 | MERV 13 | 208 | 1 | 1.45 | 15 | 58 | |
| IU-11 | TRANE/MITSUBISHI | TPEFYP024MH142A | DUCTED CONCEALED | CLASSROOM | OU-3 | BC-3 | 670 | - | 1.00 | - | 24,000.00 | 23,389.60 | 16,964.80 | 80 | 67 | 59.8 | 75 | 80 | - | 27,000.00 | 20,381.50 | 70 | - | 91.8 | 75 | 51.2 | 320 | MERV 13 | 208 | 1 | 2.11 | 15 | 100 | |
| IU-12 | TRANE/MITSUBISHI | TPEFYP072MH140A | DUCTED CONCEALED | DINING | OU-3 | BC-3 | 1,800 | - | 0.20 | - | 72,000.00 | 70,959.10 | 57,183.60 | 80 | 67 | 59.4 | 75 | 80 | - | 80,000.00 | 79,760.00 | 70 | - | 94.2 | 75 | 51.2 | 410 | MERV 13 | 208 | 1 | 7.7 | 15 | 214 | |
| IU-13 | TRANE/MITSUBISHI | TPEFYP036MH142A | DUCTED CONCEALED | HALL | OU-2 | BC-2 | 1,005 | - | 0.50 | - | 36,000.00 | 35,367.70 | 28,261.70 | 80 | 67 | 58.2 | 75 | 80 | - | 40,000.00 | 41,201.80 | 70 | - | 101 | 75 | 51.2 | 375 | MERV 13 | 208 | 1 | 4.16 | 15 | 153 | |
| IU-14 | TRANE/MITSUBISHI | TPKFYP012HM142A | WALL MOUNT | IT | OU-2 | BC-2 | 370 | - | - | - | 12,000.00 | 12,025.60 | 8,840.00 | 80 | 67 | 57.3 | 75 | 80 | - | 13,500.00 | 13,490.00 | 70 | - | 93.3 | 75 | 51.2 | 25 | - | 208 | 1 | 0.38 | 15 | 29 | |
| IU-15 | TRANE/MITSUBISHI | TPKFYP006LM140A | WALL MOUNT | ELECTRICAL | OU-2 | BC-2 | 170 | - | - | - | 6,000.00 | 6,020.00 | 4,262.00 | 80 | 67 | 57.3 | 75 | 80 | - | 6,700.00 | 6,695.00 | 70 | - | 93.3 | 75 | 51.2 | 25 | - | 208 | 1 | 0.24 | 15 | 24.5 | |
| IU-16 | TRANE/MITSUBISHI | TPEFYP008MA143A | DUCTED CONCEALED | MECHANICAL | OU-2 | BC-3 | 270 | - | 0.40 | - | 8,000.00 | 8,027.10 | 6,434.70 | 80 | 67 | 59.8 | 75 | 80 | - | 9,000.00 | 8,993.60 | 70 | - | 91.8 | 75 | 51.2 | 50 | MERV 13 | 208 | 1 | 1.05 | 15 | 49 | |
| IU-17 | TRANE/MITSUBISHI | TPEFYP096MH140A | DUCTED CONCEALED | KITCHEN | OU-3 | BC-3 | 2,050 | - | 0.20 | - | 96,000.00 | 94,963.30 | 71,407.90 | 80 | 67 | 58.9 | 75 | 80 | - | 108,000.00 | 107,277.60 | 70 | - | 99.2 | 75 | 51.2 | 160 | MERV 13 | 208 | 1 | 7.7 | 15 | 221 | |
| IU-18 | TRANE/MITSUBISHI | TPKFYP006LM140A | WALL MOUNT | PANTRY | OU-2 | BC-2 | 170 | - | - | - | 6,000.00 | 6,020.00 | 4,262.00 | 80 | 67 | 57.3 | 75 | 80 | - | 6,700.00 | 6,695.00 | 70 | - | 93.3 | 75 | 51.2 | 35 | - | 208 | 1 | 0.24 | 15 | 24.5 | |

NOTES:

## UNIT HEATER SCHEDULE

| SYMBOL | MANUFACTURER | MODEL | TYPE | SERVES | ELEC HEAT (KW) | ELEC WATTS / FT | LENGTH (FT) | ELECTRICAL | | | | | WEIGHT (LBS) | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | VOLT | PHASE | AMPS | MCA | MOCP | | |
| EUH-1 | TRANE | EWFB ASHDB-8 | FLOOR MOUNTED | VESTIBULE 100 | - | 500 | 9 | 208 | 1 | 20.0 | - | - | 24 | 1, 2 |
| EUH-2 | QMARK | CWH1151DSF | WALL-MOUNTED | FIRE RISER 131 | 1.5 | - | - | 208 | 1 | 12.5 | - | - | 12 | 1 |
| EUH-3 | BERKO | SSARWH4808 | WALL-MOUNTED | OUTDOOR DINING 130 | 1.8 - 4.8 | - | - | 208 | 1 | 23.0 | - | - | 25 | 1, 3 |

NOTES:
1. PROVIDE WITH INTEGRAL THERMOSTAT.
2. PROVIDE WITH ARCHITECTURAL PEDISTALS
3. CONNECT TO BUILDING MANAGEMENT SYSTEM.

## VRF HEAT EXCHANGER UNIT SCHEDULE

| SYMBOL | MANUFACTURER | MODEL | TYPE | SERVES | SERVED BY (OUTDOOR UNIT) | SERVED BY (BC CONTROLLER) | COOLING | | | HEATING | | DESIGN GPM | WATER PD (FT) | EWT DEG F | LWT DEG F | ELECTRICAL | | | | WEIGHT (LBS) | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | NOMINAL BTU (TOTAL) | CORRECTED BTU (TOTAL) | CORRECTED BTU (SENS) | NOMINAL BTU (TOTAL) | CORRECTED BTU (TOTAL) | | | | | VOLT | PHASE | MCA | MOCP | | |
| HX-1 | MITSUBISHI | TPWFYP072AU141A | VRF HEAT EXCHANGER | DOMESTIC HW | OU-2 | BC-2 | 72,000.00 | 76,898.10 | 0.00 | 79,800.00 | 53,454.90 | 18.4 | 30 | 86 | 91.8 | 208 | 1 | 0.09 | 15 | 80 | |
| HX-2 | MITSUBISHI | TPWFYP072AU141A | VRF HEAT EXCHANGER | DOMESTIC HW | OU-2 | BC-2 | 72,000.00 | 76,898.10 | 0.00 | 79,800.00 | 53,454.90 | 18.4 | 30 | 86 | 91.8 | 208 | 1 | 0.09 | 15 | 80 | |
| HX-3 | MITSUBISHI | TPWFYP072AU141A | VRF HEAT EXCHANGER | DOMESTIC HW | OU-2 | BC-2 | 72,000.00 | 76,898.10 | 0.00 | 79,800.00 | 53,454.90 | 18.4 | 30 | 86 | 91.8 | 208 | 1 | 0.09 | 15 | 80 | |

NOTES:

## RADIANT UNIT HEATER SCHEDULE

| SYMBOL | MANUFACTURER | MODEL | TYPE | SERVES | ELEC HEAT (KW) | ELECTRICAL | | | | | MOUNTING | WEIGHT (LBS) | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | VOLT | PHASE | AMPS | MCA | MOCP | | | |
| RUH-1 | INFRATECH | C-20 | RADIANT | OUTDOOR DINING | 2.0 | 240 | 1 | 8.3 | - | - | CEILING | 13 | |
| RUH-2 | INFRATECH | CD-60 | RADIANT | OUTDOOR DINING | 6.0 | 240 | 1 | 25.0 | - | - | CEILING | 21 | |

NOTES:
1. MOUNTING HEIGHT PER MANUFACTURER'S RECOMMENDATIONS.

## VRF OUTDOOR UNIT SCHEDULE

| SYMBOL | MANUFACTURER | MODEL | SERVES | NOMINAL COOLING (MBH) | HEATING (MBH) | OA (DB) | EFFICIENCY RATINGS | | | | ELECTRICAL | | | | WEIGHT (LBS) | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | SCHE | EER | IEER | COP | VOLT | PHASE | MCA | MOCP | | |
| OU-1 | MITSUBISHI | TURYE0964AN40AN | WEST WING | 96 | 108 | 18 | 23.50 | 13.70 | 26.50 | 3.94 | 208 | 3 | 31 | 45 | 650 | |
| OU-2 | MITSUBISHI | TURYE2884BN40AN | EAST WING | 288 | 320 | 18 | 21.70 | 10.90 | 23.00 | 3.26 | 208 | 3 | 49 | 60 | 1,430 | 1 |
| OU-3 | MITSUBISHI | TURYE1684AN40AN | SOUTH WING | 168 | 188 | 18 | 24.70 | 11.20 | 23.40 | 3.30 | 208 | 3 | 57 | 90 | 807 | |

NOTES:
1. PROVIDE WITH TWINNING KIT.

## WEATHERPROOF LOUVER SCHEDULE

| SYMBOL | MANUFACTURER | MODEL | SERVICE | CFM | SIZE (IN) | | | FREE AREA | | MAX PD (IN) | MAX VELOCITY (FPM) | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | LENGTH | HEIGHT | DEPTH | % | SQ FT | | | |
| L-1 | GREENHECK | ESD-435 | OUTSIDE AIR | 385 | 18.00 | 18.00 | 6.00 | - | 0.88 | 0.08 | 700 | |
| L-2 | GREENHECK | ESD-435 | OUTSIDE AIR | 1,000 | 24.00 | 24.00 | 6.00 | - | 1.81 | 0.08 | 700 | |
| L-3 | GREENHECK | ESD-435 | EXHAUST AIR | 1,000 | 24.00 | 18.00 | 6.00 | - | 1.81 | 0.08 | 750 | |
| L-4 | GREENHECK | ESD-435 | OUTSIDE AIR | 975 | 24.00 | 18.00 | 6.00 | - | 1.81 | 0.08 | 700 | |
| L-5 | GREENHECK | ESD-435 | EXHAUST AIR | 975 | 24.00 | 18.00 | 6.00 | - | 1.81 | 0.08 | 750 | |

NOTES:

## VRF BRANCH CIRCUIT CONTROLLER SCHEDULE

| SYMBOL | MANUFACTURER | MODEL | SERVED BY | TYPE | PORTS | CONNECTED CAPACITY (BTUH) | ELECTRICAL | | | | WEIGHT (LBS) | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | VOLT | PHASE | MCA | MOCP | | |
| BC-1 | MITSUBISHI | TCMBM0108SJ11N4 | OU-1 | SINGLE | 8 | 114,000 | 208 | 1 | 0.83 | 15 | 106 | |
| BC-2 | MITSUBISHI | TCMBM1016JA11N4 | OU-2 | MAIN | 16 | 336,000 | 208 | 1 | 1.57 | 15 | 133 | |
| BC-3 | MITSUBISHI | TCMBM0108J11N4 | OU-3 | MAIN | 8 | 192,000 | 208 | 1 | 0.83 | 15 | 106 | |

NOTES:

## PUMP SCHEDULE

| SYMBOL | MANUFACTURER | MODEL | SERVICE | TYPE | FLOW | | HEAD | CONTROL | NPSHR | RPM | ELECTRICAL | | | | | MOUNTING | WEIGHT (LBS) | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | GPM (DESIGN) | GPM (MIN) | (FT) | HEAD (FT) | (FT) | | HP | W | AMP | VOLT | PHASE | | | |
| PU-1 | BELL & GOSSETT | ECOCIRC XL 70-145 | HYDRONIC | CIRCULATOR WITH ECM MOTOR | 56 | - | 52 | 15.6 | - | 3240 | 1.48 | - | - | 208 | 1 | INLINE | 40 | |

NOTES:

## AIR INLETS AND OUTLETS SCHEDULE

| SYMBOL | MANUFACTURER | MODEL | SERVICE | MOUNTING TYPE | STYLE | MATERIAL | NOTES |
|---|---|---|---|---|---|---|---|
| SD-1 | PRICE | AMCD | SUPPLY | T-BAR GRID | MODULAR CORE DIRECTIONAL | PRIME COAT | 1,3,4,5,6 |
| SD-2 | PRICE | 22 | SUPPLY | DUCT/GYP BOARD | GRILLE | PRIME COAT | 1,4,5,6 |
| SD-3 | PRICE | SDGR | SUPPLY | SPIRAL DUCT | SPIRAL DUCT GRILLE | PRIME COAT | 1,4,5,6 |
| SD-4 | PRICE | SDS/T5 | SUPPLY | GYP BOARD | 3/4" 2 SLOT LINEAR W/ SDB PLENUM | PRIME COAT | 1,4,5,6 |
| RG-1 | PRICE | 80 | RETURN | T-BAR/ GYPSUM BOARD | EGGCRATE | PRIME COAT | 1,2,4,5,6 |
| RG-2 | PRICE | 630 | RETURN | DUCT/GYP BOARD | GRILLE | PRIME COAT | 1,2,4,5,6,7 |
| EG-1 | PRICE | 80 | EXHAUST | T-BAR/ GYPSUM BOARD | EGGCRATE | PRIME COAT | 1,2,4,5,6 |
| EG-2 | PRICE | 630 | EXHAUST | DUCT/GYP BOARD | GRILLE | PRIME COAT | 1,2,4,5,6 |
| TG-2 | PRICE | ATG1 | TRANSFER | DOOR | GRILLE | PRIME COAT | 1,2,4,5,6 |

NOTES:
1. REFER TO PLANS FOR SIZE AND QUANTITY.
2. PROVIDE ALL RETURN AND EXHAUST GRILLES AND REGISTERS WITH FIXED 35° OR 45° DEFLECTION BLADES UNLESS OTHERWISE NOTED.
3. ALL SUPPLY AIR DIFFUSERS ARE 4-WAY BLOW PATTERN UNLESS SHOWN OTHERWISE.
4. FURNISH ALL PRODUCTS OF A SINGLE MANUFACTURER.
5. COORDINATE DIFFUSER TYPE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.
6. PROVIDE MANUAL AIR DAMPERS AT EACH BRANCH DUCT TO A SINGLE DIFFUSER, REGISTER OR GRILLE.
7. INSTALL GRILLE WITH BLADES FACING UP.

## AIR SEPARATOR SCHEDULE

| SYMBOL | MANUFACTURER | MODEL | GPM | PD (FT) | LINE SIZE (IN) | SERVICE | WEIGHT (LBS) | NOTES |
|---|---|---|---|---|---|---|---|---|
| AS-1 | BELL AND GOSSETT | RL-3F | 56.00 | 0.16 | 3.00 | HYDRONIC | 173 | 1 |

NOTES:
1. WEIGHT INDICATED IS OPERATING WEIGHT.

## EXPANSION TANK SCHEDULE

| SYMBOL | MANUFACTURER | MODEL | SERVES | TYPE | CONFIGURATION | PRESSURE (PSI) | VOLUME (GAL) | | WEIGHT (LBS) | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | TOTAL | ACCEPTANCE | | |
| ET-3 | BELL AND GOSSETT | D-15V | HYDRONIC | EXPANSION TANK | DIAPHRAGM | 125 | 8.00 | 2.40 | 43 | 1 |

NOTES:
1. ASME CONSTRUCTION.


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04/16/2021
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# The Chehalis Tribe
# Chehalis Elder Center

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| | | |

CONTENTS:
**SCHEDULES**

SCALE:
DRAWN: KBT
CHECKED: KHT
PROJECT NO: 20-034

SHEET:
**M002**

## ELECTRIC DUCT HEATER SCHEDULE

| SYMBOL | MANUFACTURER | MODEL | DUCT SIZE (IN) | CFM | ELECTRICAL | | | | | WEIGHT (LBS) | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | KW | STAG... | AMPS | VOLT | PHASE | | |
| DH-1 | GREENHECK | IDHB | 20X14 | 1625 | 19.00 | 1 | 91.3 | 208 | 3 | - | |

NOTES:

## FAN SCHEDULE

| SYMBOL | MANUFACTURER | MODEL | AREA SERVED | CFM | ESP (IN) | RPM | SONES | MOUNTING | ELECTRICAL | | | | | WEIGHT (LBS) | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | HP | W | AMPS | VOLT | PHASE | | |
| EF-1 | GREENHECK | CUE-140-VG | KITCHEN | 2,030 | 1.000 | 1,550 | 12.40 | ROOF | 0.75 | - | 8.8 | 115 | 1 | 85 | 1,2,3,4,5 |
| SF-1 | GREENHECK | SQ-130-VG | KITCHEN | 1,625 | 0.850 | 1,725 | 12.70 | INLINE | 0.75 | - | - | 115 | 1 | 112 | 2,5 |

NOTES:
1. PROVIDE WITH ROOF CURB.
2. PROVIDE WITH EC MOTOR AND ADJUSTABLE SPEED CONTROL FOR BALANCING.
3. UL762 RATED FOR GREASE EXHAUST SERVICE.
4. PROVIDE WITH VENTILATED CURB EXTENSION, HINGED FAN BASE, GREASE COLLECTION PORT AND TANK.
5. INTERLOCK WITH KITCHEN HOOD CONTROLS.

## DUCT INSULATION & LINING SCHEDULE

| APPLICATION | R-VALUE (MIN) | K-VALUE (MAX) | NRC (MIN, 1") | THICKNESS (IN) | INSULATION LOCATION | | TYPE | NOTES |
|---|---|---|---|---|---|---|---|---|
| | | | | | INSIDE DUCT | OUTSIDE DUCT | | |
| SUPPLY & RETURN AIR DUCT INSIDE BUILDING | 5.60 | - | - | 2.00 | - | X | FIBERGLASS WITH ASJ | 1 |
| OUTSIDE AIR DUCT INSULATION INSIDE BUILDING | 12.00 | - | - | 4.40 | - | X | FIBERGLASS WITH ASJ | 1 |
| EXHAUST DUCT LINING, 10' FROM RESTROOM EXHAUST OUTLETS | - | 0.25 | 0.55 | 1.00 | X | - | CLOSED-CELL ELASTOMERIC | |
| GREASE HOOD EXHAUST | - | - | - | 3.00 | - | X | INORGANIC FIBER W/ FOIL SCRIM | 2 |

NOTES:
1. ASJ SHALL INCLUDE VAPOR BARRIER.
2. ASTM E2336 2-HOUR FIRE RATED DUCT WRAP, LISTED FOR ZERO-CLEARANCE TO COMBUSTIBLES. APPLY 2 LAYERS OF DUCT WRAP.

## PIPE INSULATION SCHEDULE

| APPLICATION | TEMP RANGE (°F) | INSULATION CONDUCTIVITY | | NOMINAL PIPE SIZE (IN) | | | | | TYPE | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|
| | | K FACTOR | MRT (°F) | <1" | 1" - 1-1/4" | 1-1/2" - 3" | 4" - 8" | ≥8" | | |
| REFRIGERANT PIPING | 0-150 | 0.21-0.28 | 150 | 1.5 | 1.5 | 2.0 | - | - | FLEXIBLE ELASTOMERIC | 2,3 |
| HWR/HWS | 100-180 | 0.21-0.28 | 100 | 1.5 | 1.5 | 2.0 | - | - | FIBERGLASS W/ ASJ | 3 |
| CONDENSATE DRAIN & TRAPS | 40-60 | 0.21-0.27 | 75 | 0.5 | 0.5 | 1.0 | - | - | FLEXIBLE ELASTOMERIC | 1,2 |

GENERAL NOTES:
1. INSULATION REQUIREMENTS SHALL APPLY TO HEAT TRACED PIPING APPLICATIONS ALSO.
2. PROVIDE WITH ALUMINUM JACKETING FOR ALL EXTERIOR LOCATIONS.
3. PROVIDE WITH PVC JACKETING IN ALL EXPOSED LOCATIONS (UTILITY ROOMS, STORAGE ROOMS, ETC.).


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|---|---|---|
| | | |

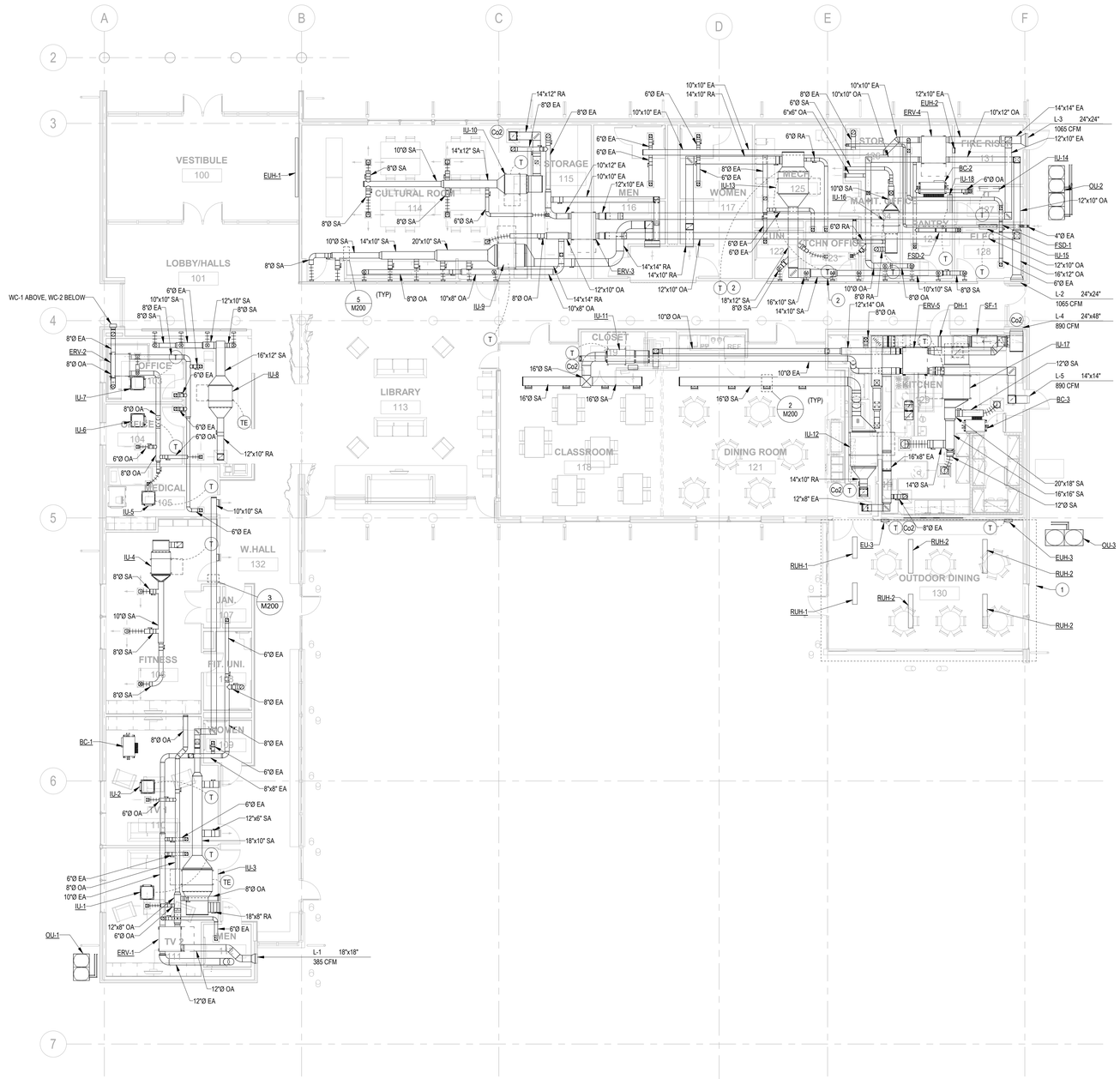
CONTENTS:
**SCHEDULES**

SCALE:
DRAWN: **Author**
CHECKED: **Checker**
PROJECT NO: 20-034

SHEET:
**M003**

## PLAN NOTES

1. OUTDOOR DINING AREA HAS NATURAL VENTILATION BY MEANS OF OPERABLE WINDOWS IN ACCORDANCE WITH ASHRAE 62.1 SECTION 6.4.2.
2. THE THERMOSTAT IN THE KITCHEN OFFICE AND THE THERMOSTAT IN THE ASSOCIATED HALL ARE TO PROVIDE AN AVERAGE SPACE TEMPERATURE TO CONTROL IU-13.




1 **FIRST FLOOR HVAC PLAN**

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

0 4' 8' 16'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CONTENTS:

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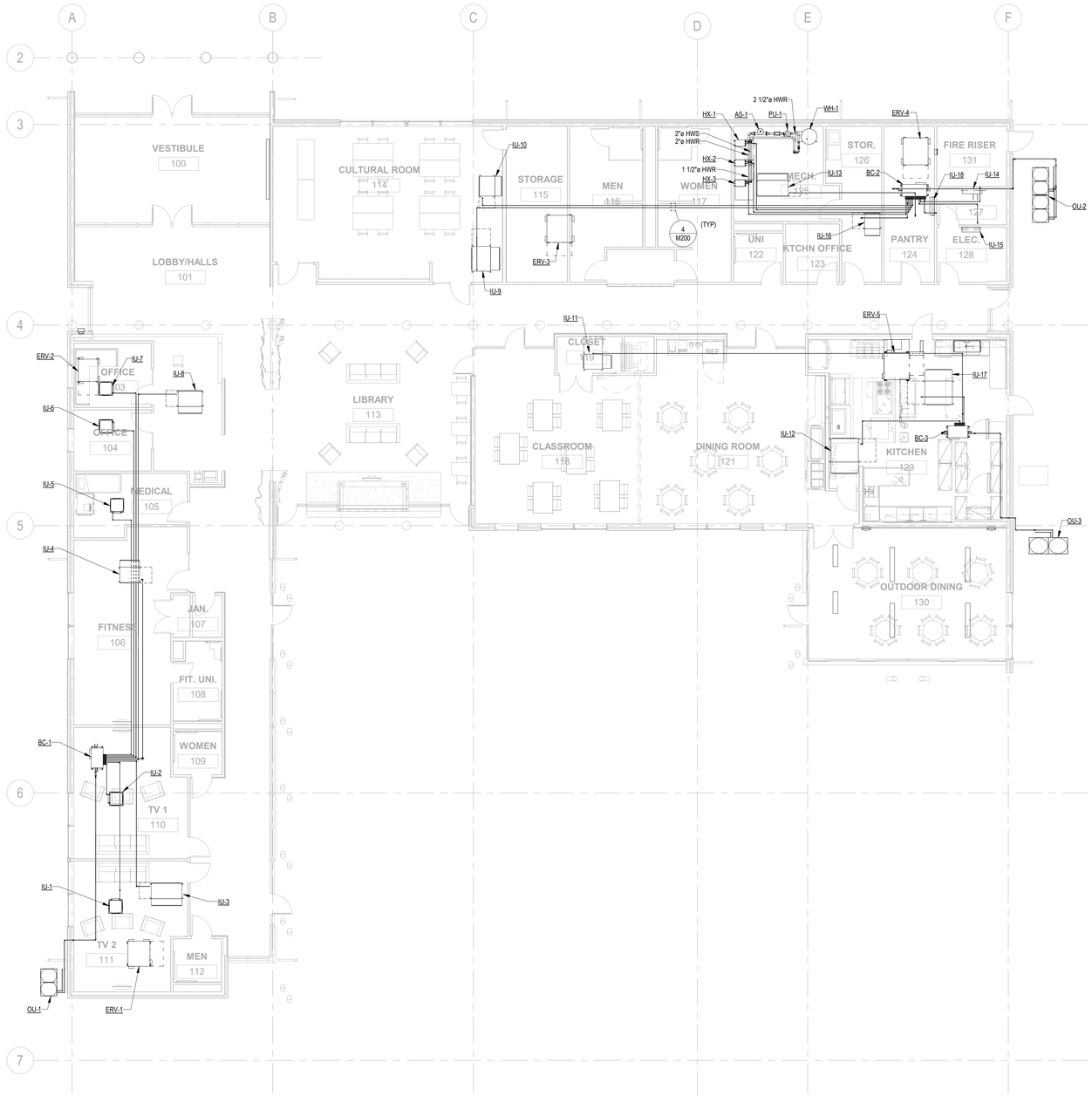
| DRAWN: | KBT |
| CHECKED: | KHT |
| PROJECT NO: | 20-034 |

SHEET:

**M100**




1 **FIRST FLOOR HVAC PIPING PLAN**

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

0 4' 8' 16'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|---|---|---|
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CONTENTS:

**FIRST FLOOR HVAC PIPING PLAN**

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|---|---|
| SCALE: | 1/8" = 1'-0" |
| DRAWN: | KBT |
| CHECKED: | KHT |
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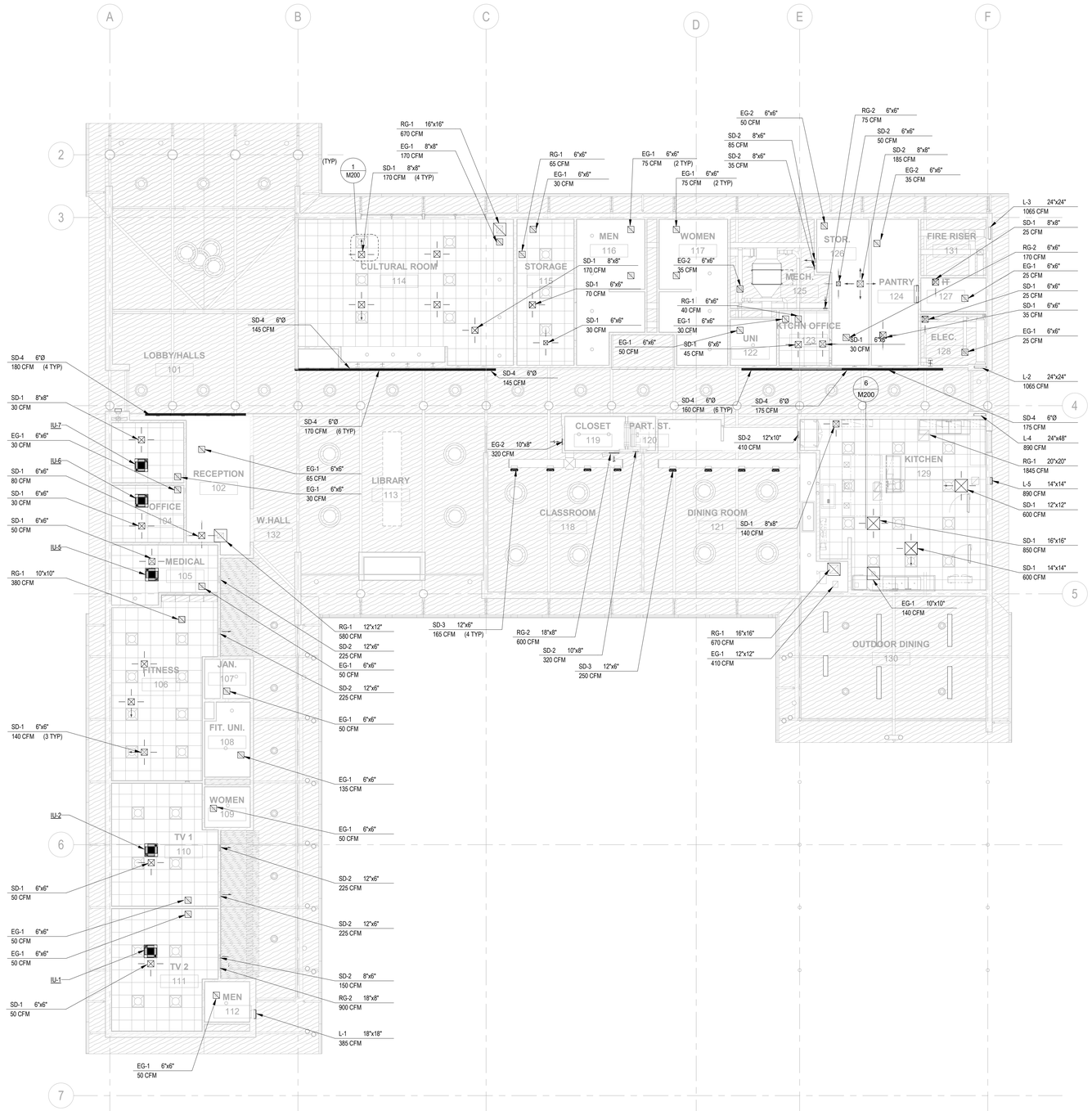
SHEET:

**M101**




## 1 HVAC RCP PLAN

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

0 4' 8' 16'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CONTENTS:

**FIRST FLOOR HVAC RCP PLAN**

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|---|---|
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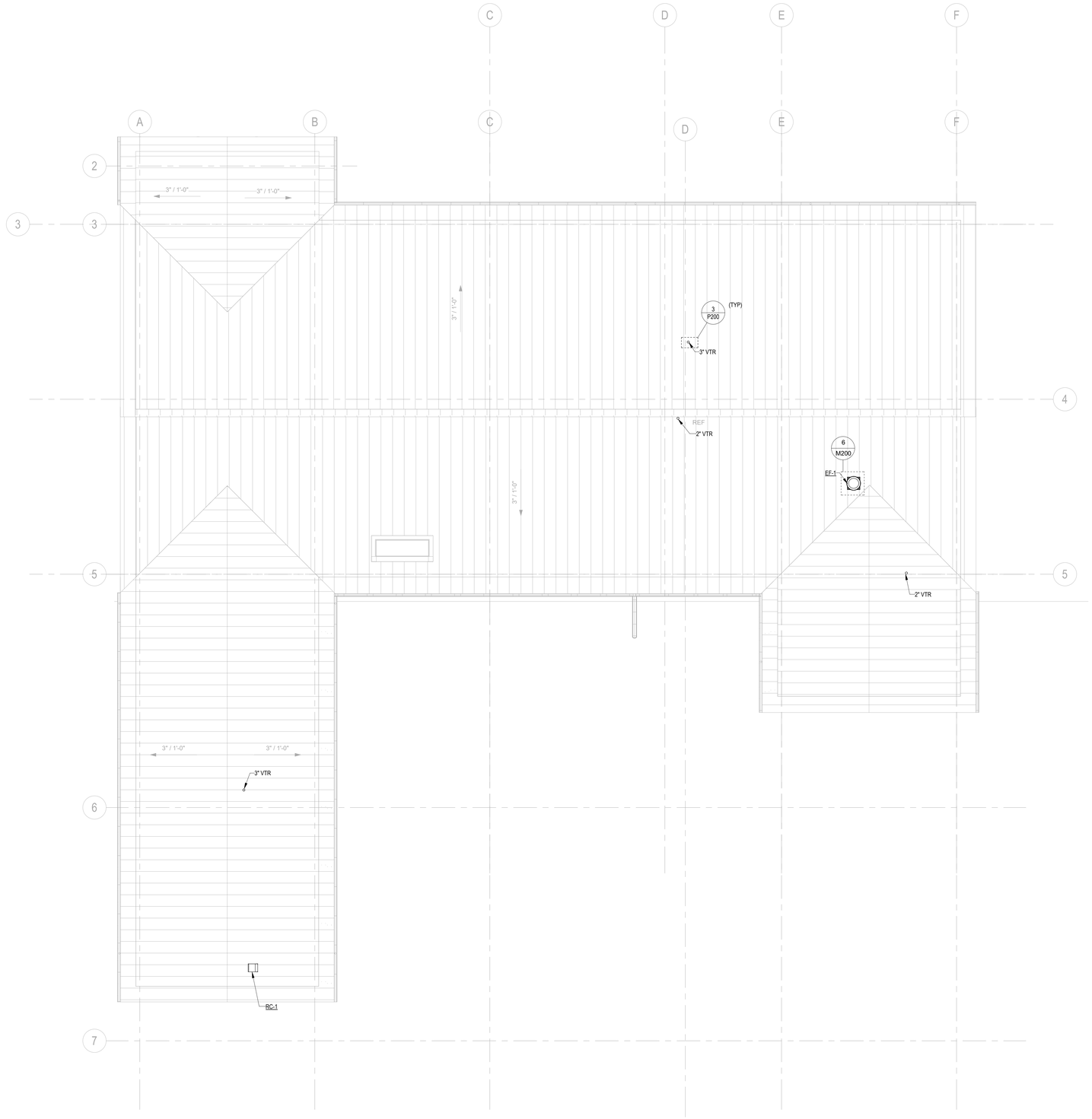
| CHECKED: | KHT |
| PROJECT NO: | 20-034 |

SHEET:

**M102**




1 **ROOF HVAC PLAN**

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

0 4' 8' 16'


a|r|c ARCHITECTS

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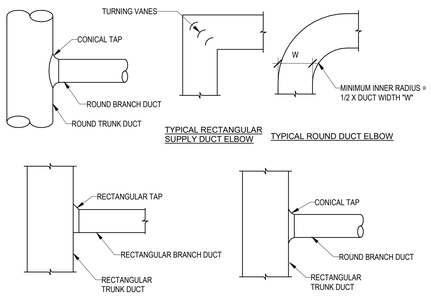
CONTENTS:

**ROOF HVAC PLAN**

| | |
|---|---|
| SCALE: | 1/8" = 1'-0" |
| DRAWN: | KBT |
| CHECKED: | KHT |
| PROJECT NO: | 20-034 |

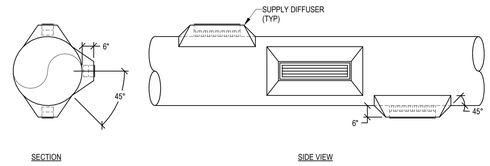
SHEET:

**M103**



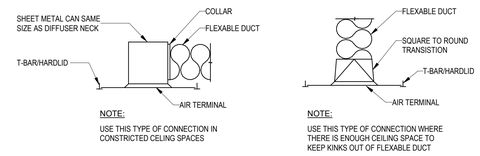

## 3 DUCT ELBOW AND DUCT BRANCH DETAIL

SCALE: NONE



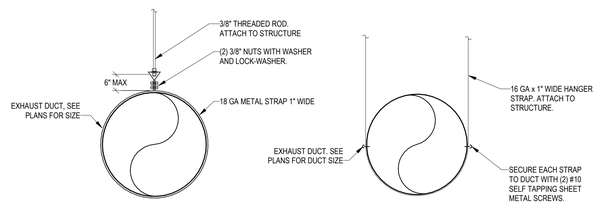

## 2 DUCT MOUNTED SUPPLY DIFFUSER DETAIL

SCALE: NONE




## 1 AIR TERMINAL DETAIL

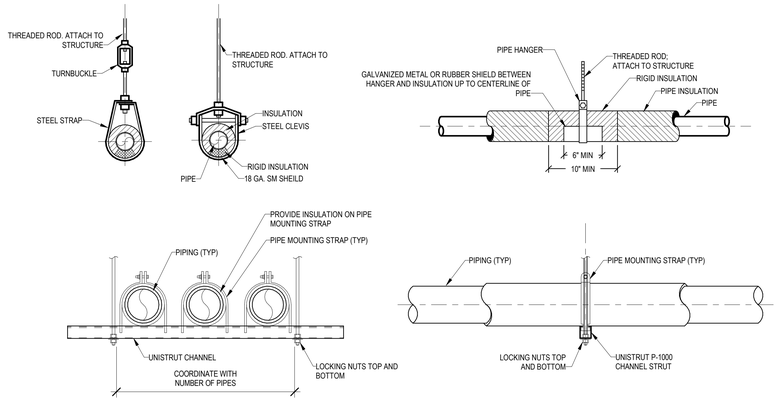
SCALE: NONE




NOTES:
1. PROVIDE AND CONSTRUCT DUCT HANGERS AND SUPPORTS PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS FIGURE 5-5.
2. LENGTH OF SUPPORTS, STRAP SIZES, AND SIZES OF STEEL ANGLES AS REQUIRED FOR DUCTWORK CONFIGURATION.
3. MAXIMUM 10' SPACING BETWEEN SUPPORTS.
4. DUCTS SHALL BE SUPPORTED INDEPENDENTLY AT EQUIPMENT AND ON BOTH SIDES OF AN EXPANSION OR FLEXIBLE JOINT.
5. HANGER SUPPORTS SHALL BE SECURELY FASTENED TO THE BUILDING OR STRUCTURE

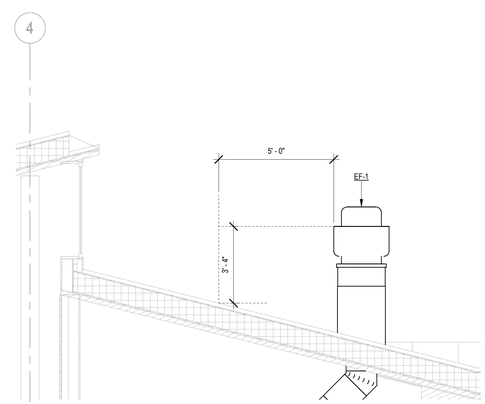
## 5 TYPICAL DUCT MOUNTING DETAIL

SCALE: NONE




## 4 MECHANICAL PIPE HANGER DETAIL

SCALE: NONE




## 6 KITCHEN EXHAUST FAN DETAIL

SCALE: NONE


arc ARCHITECTS
119 S MAIN ST
SUITE 200
SEATTLE, WA
98104-2579
206 322 3322


KEVIN H. TAKAYESU
STATE OF WASHINGTON
0052287 04/16/2021
REGISTERED PROFESSIONAL ENGINEER

# The Chehalis Tribe Chehalis Elder Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: 04/16/2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
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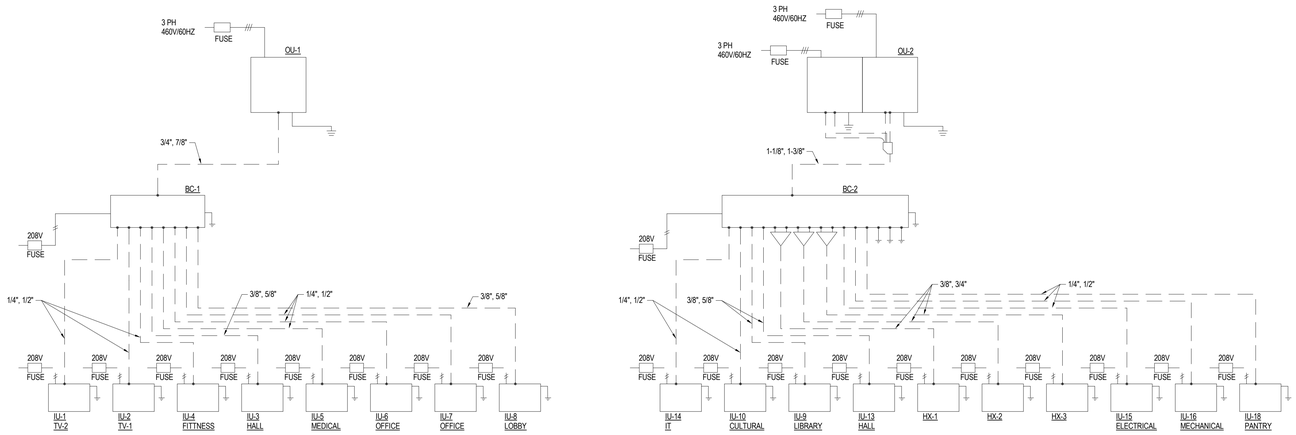
CONTENTS:

**DETAILS**

| | |
|---|---|
| SCALE: | As indicated |
| DRAWN: | KBT |
| CHECKED: | KHT |
| PROJECT NO: | 20-034 |

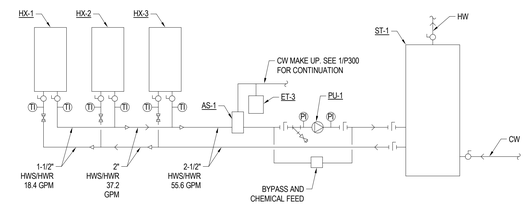
SHEET:

**M200**




1 **REFRIGERANT FLOW DIAGRAM**

SCALE: NONE




2 **HVAC HYDRONIC DIAGRAM**

SCALE: NONE


arc ARCHITECTS

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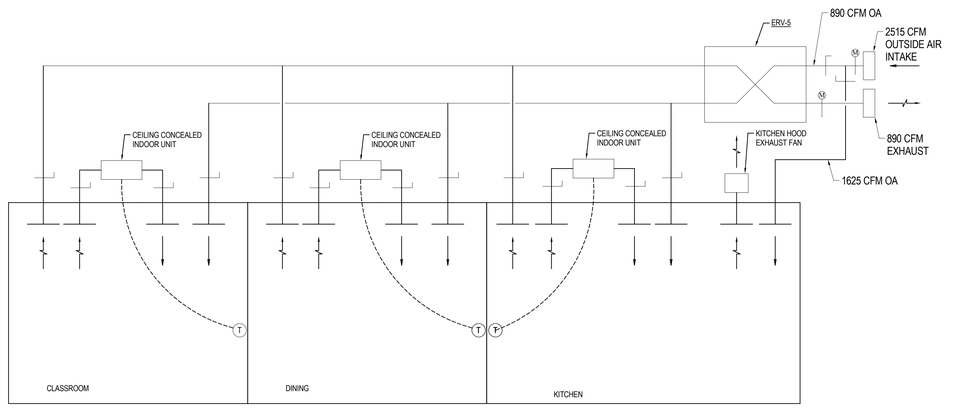
CONTENTS:

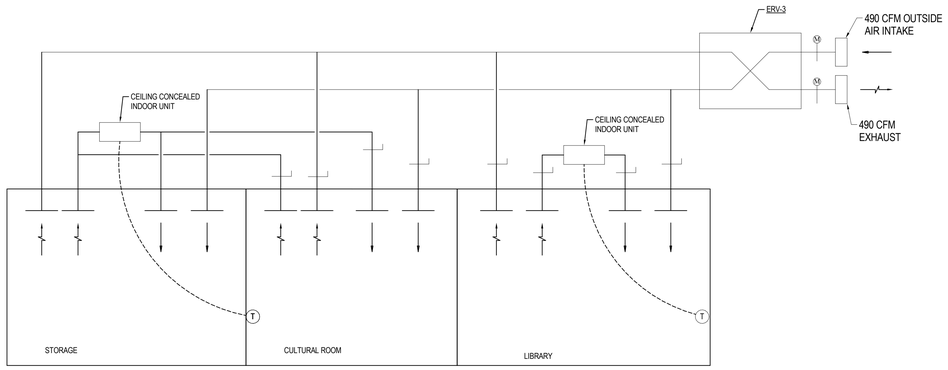
**MECHANICAL PIPING DIAGRAMS**

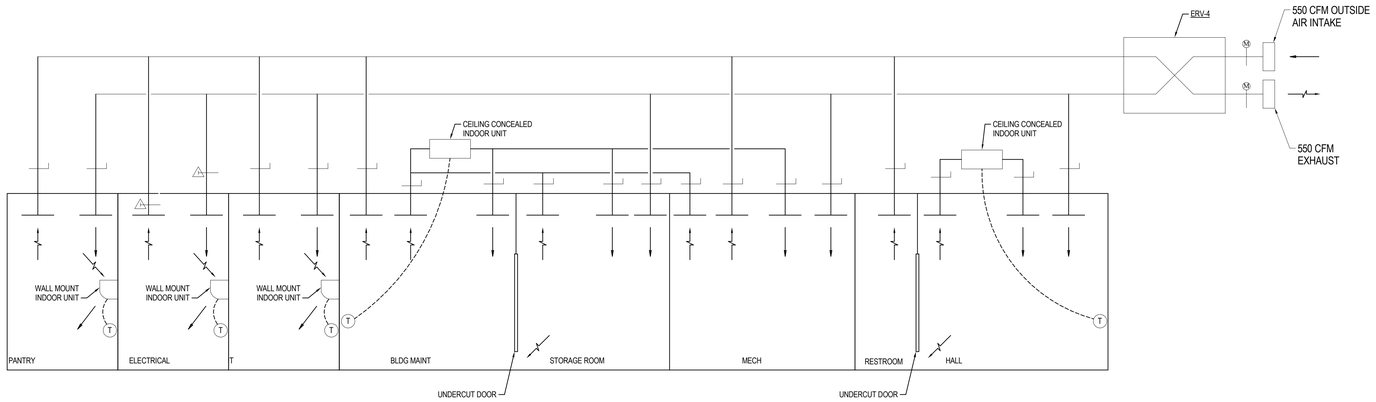
| | |
|---|---|
| SCALE: | 12" = 1'-0" |
| DRAWN: | KBT |
| CHECKED: | KHT |
| PROJECT NO: | 20-034 |

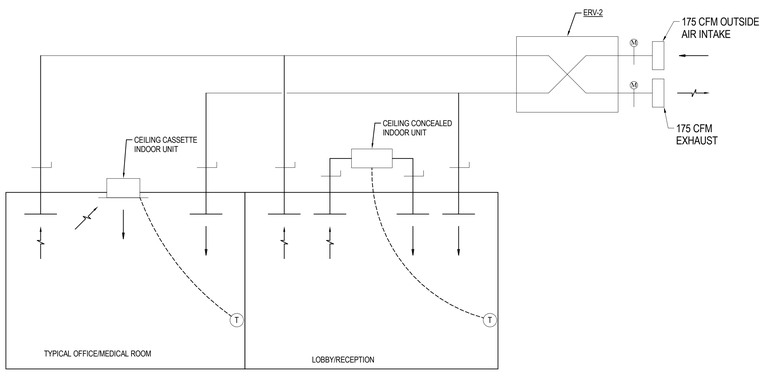
SHEET:

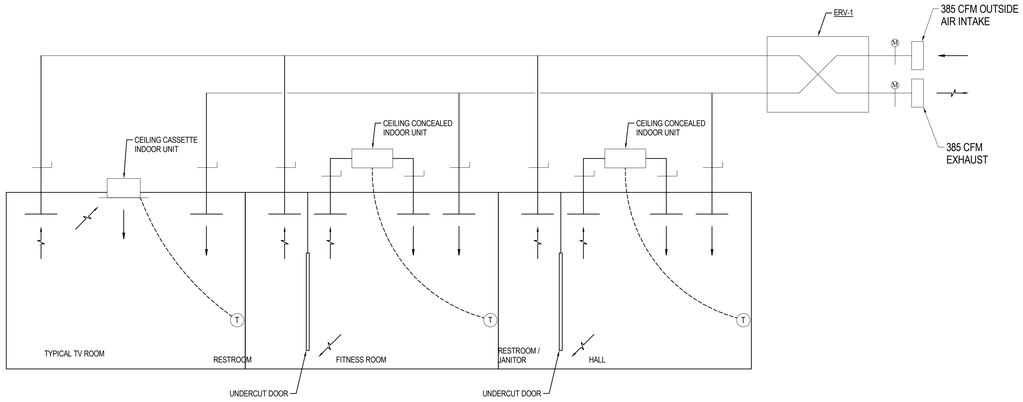
**M300**




## 1 MECHANICAL AIR FLOW DIAGRAMS

SCALE: NONE


arc ARCHITECTS
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| | |
|---|---|
| SCALE: | 12" = 1'-0" |
| DRAWN: | KBT |
| CHECKED: | KHT |
| PROJECT NO: | 20-034 |

SHEET:

**M301**

# SYSTEM POINTS LIST

| SYSTEM POINT DESCRIPTION | ANALOG INPUT: TEMPERATURE | PRESSURE | RH | AMP | KWH | BTU/HR | GPM | PERCENT | CFM | ANALOG OUTPUT: SET POINT | BINARY INPUT: STATUS ON/OFF | FILTER STATUS | STATUS (OPEN/CLOSED) | STATUS | NO. OF STARTS | TIMED OVERRIDE | BINARY OUTPUT: ON/OFF | OPEN/CLOSE | LOCK OUT | ENABLE/DISABLE | SYSTEM FEATURES ALARMS: HIGH ANALOG | LOW ANALOG | HIGH BINARY | LOW BINARY | PROVE | SENSOR FAIL | FLOW FAIL | COMMUNICATIONS FAIL | DIAGNOSTICS | GENERAL ALARM | PROGRAMS: TIME SCHEDULING | GRAPHICS | TRENDING | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SYSTEM POINTS LIST - ELECTRIC UNIT HEATER** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **SPLIT SYSTEM HEAT PUMP UNIT** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HEATING SETPOINT | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | X | X | | |
| SCHEDULE COMMAND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X | X | | |
| UNIT ENABLE COMMAND | | | | | | | | | | | | | | | | | | | X | | | | | | X | | | | | | | X | X | | |
| FIRE ALARM SHUTDOWN | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | X | X | | |

GENERAL NOTES:
NOTES:

| SYSTEM POINTS LIST - VRF SYSTEMS | TEMPERATURE | PRESSURE | RH | AMP | KWH | BTU/HR | GPM | PERCENT | CFM | SET POINT | STATUS ON/OFF | FILTER STATUS | STATUS (OPEN/CLOSED) | STATUS | NO. OF STARTS | TIMED OVERRIDE | ON/OFF | OPEN/CLOSE | LOCK OUT | ENABLE/DISABLE | HIGH ANALOG | LOW ANALOG | HIGH BINARY | LOW BINARY | PROVE | SENSOR FAIL | FLOW FAIL | COMMUNICATIONS FAIL | DIAGNOSTICS | GENERAL ALARM | TIME SCHEDULING | GRAPHICS | TRENDING | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **VARIABLE REFRIGERANT FLOW SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DISCHARGE AIR TEMPERATURE | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X | | |
| DISCHARGE STATIC PRESSURE | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X | | |
| SUPPLY FAN STATUS | | | | | | | | | | | X | | | | | | | | | | | | X | | X | | | | | | | X | X | | |
| DISCHARGE AIR TEMPERATURE SETPOINT | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | X | X | | |
| DISCHARGE AIR PRESSURE SETPOINT | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | X | X | | |
| COOLING SETPOINT | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | X | X | | |
| COOLING ENABLE | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | X | X | | |
| SCHEDULE COMMAND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X | X | | |
| UNIT ENABLE COMMAND | | | | | | | | | | | | | | | | | | | X | | | | | | X | | | | | | | X | X | | |
| FIRE ALARM SHUTDOWN | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | X | X | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **HEAT RECOVERY UNIT** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUPPLY FAN | | | | | | | | | | | X | | | | | | | | | | | | | | X | | | | | | X | X | X | | |
| EXHAUST FAN | | | | | | | | | | | X | | | | | | | | | | | | | | X | | | | | | X | X | X | | |
| OSA DAMPER | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | X | X | X | | |
| OSA AIRFLOW PROVING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X | X | | 1 |
| RETURN AIR DAMPER | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | X | X | X | | |
| EXHAUST DAMPER | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | X | X | X | | |
| FIRE ALARM SHUTDOWN | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | X | X | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **HEX UNIT (OU-2)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ENTERING WATER TEMPERATURE | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X | | |
| LEAVING WATER TEMPERATURE | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X | | |
| AQUASTAT SETPOINT | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | X | X | X | | |
| HEATING ENABLE | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | X | X | | |
| SCHEDULE COMMAND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X | X | | |
| UNIT ENABLE COMMAND | | | | | | | | | | | | | | | | | | | X | | | | | | X | | | | | | | X | X | | |
| FIRE ALARM SHUTDOWN | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | X | X | | |

GENERAL NOTES:
NOTES:
1. BY CT ON OSA SUPPLY FAN OR BY AIRFLOW SWITCH IN OSA PATH.

## SEQUENCE OF OPERATIONS

1. ELECTRIC UNIT HEATER

1.1. ELECTRIC UNIT HEATER SHALL OPERATE TO MAINTAIN THE ZONE TEMPERATURE SETPOINT OF THE ASSIGNED ROOMS.

1.2. UNIT HEATER CONTROL: ZONE TEMPERATURE SHALL BE OBTAINED FROM THE ZONE THERMOSTAT. IF ZONE TEMPERATURE RISES BELOW THE ZONE TEMPERATURE SETPOINT, THE UNIT HEATER SHALL BE ENABLED TO PROVIDE HEATING.

1.3. NIGHT SETBACK/NIGHT SETUP: WHEN IN "UNOCCUPIED" MODE, THE UNIT WILL CYCLE AS NECESSARY TO MAINTAIN THE NIGHT SETBACK ZONE TEMPERATURE AT SETPOINT. A DIFFERENTIAL PREVENTS THE UNIT FROM CYCLING EXCESSIVELY.

1.4. SHUTDOWN: WHEN THE UNIT IS SHUTDOWN BY EITHER A STOP COMMAND OR SYSTEM SAFETY, THE UNIT WILL BE SET AS FOLLOWS:

1.4.1. UNIT HEATER SHALL BE OFF

2. VARIABLE REFRIGERANT FLOW SYSTEM

2.1. VRF INDOOR UNITS SHALL OPERATE TO MAINTAIN THE ZONE TEMPERATURE SETPOINT OF THE ASSIGNED ROOMS.

2.2. SUPPLY FAN START/STOP: THE SUPPLY FAN WILL BE STARTED ACCORDING TO THE SCHEDULE. AFTER THE SUPPLY FAN HAS BEEN STARTED, THE CONTROL SEQUENCE WILL BE ENABLED.

2.3. ZONE CONTROL: THE COMPRESSOR WILL CYCLE IN SEQUENCE TO MAINTAIN THE ZONE TEMPERATURE AT SETPOINT.

2.4. HEAT PUMP CONTROL: ZONE TEMPERATURE SHALL BE OBTAINED FROM THE ZONE THERMOSTAT. IF ZONE TEMPERATURE RISES ABOVE/BELOW THE ZONE TEMPERATURE SETPOINT, THE INDOOR UNIT SHALL BE ENABLED TO PROVIDE HEATING AND COOLING WHEN THE COMPRESSOR IS RUNNING.

2.5. NIGHT SETBACK/NIGHT SETUP: WHEN IN "UNOCCUPIED" MODE, THE UNIT WILL CYCLE AS NECESSARY TO MAINTAIN THE NIGHT SETBACK ZONE TEMPERATURE AT SETPOINT. A DIFFERENTIAL PREVENTS THE UNIT FROM CYCLING EXCESSIVELY.

2.6. SHUTDOWN: WHEN THE UNIT IS SHUTDOWN BY EITHER A STOP COMMAND OR SYSTEM SAFETY, THE UNIT WILL BE SET AS FOLLOWS:

2.6.1. SUPPLY FAN WILL BE OFF

2.6.2. COMPRESSORS(S) WILL BE OFF

2.7. HEX UNIT (OU-2)

2.7.1. HEX UNIT SHALL OPERATE TO MAINTAIN THE WATER HEATER SETPOINT AS DETERMINED BY THE AQUASTAT.

2.7.2. TANK CONTROL: THE COMPRESSOR SHALL CYCLE IN SEQUENCE TO MAINTAIN THE TANK TEMPERATURE AT SETPOINT.

2.8. ENERGY RECOVERY VENTILATOR

2.8.1. UNIT START/STOP: UNIT SHALL RUN CONTINUOUSLY. THE SUPPLY FAN SHALL MODULATE TO MAINTAIN DUCT STATIC PRESSURE, AND THE EXHAUST FANS SHALL RUN CONTINUOUSLY, AND THE OUTSIDE AIR AND EXHAUST DAMPERS SHALL BE OPEN TO MAINTAIN VENTILATION REQUIREMENTS.

2.8.2. SHUTDOWN: WHEN THE CRAC UNIT IS SHUTDOWN BY EITHER A STOP COMMAND, SYSTEM SAFETY, OR FIRE ALARM THE ERV UNIT WILL BE SET AS FOLLOWS:

2.8.2.1. SUPPLY AND EXHAUST FAN WILL BE OFF

2.9. CO2 SENSOR

2.9.1. OUTSIDE CO2 SENSOR SHALL MONITOR OSA CO2 CONCENTRATION LEVELS. INDOOR CO2 SENSORS SHALL MONITOR CO2 CONCENTRATION LEVELS. IF THE INDOOR CO2 CONCENTRATION LEVEL EXCEEDS THE OUTDOOR AIR CO2 SENSOR CONCENTRATION LEVEL BY 700 PPM, AN ALARM SHALL BE SENT TO THE BUILDING AUTOMATION SYSTEM.

2.10. THERMOSTATS & TEMPERATURE SENSORS

2.10.1. ZONE TEMPERATURE SHALL BE OBTAINED FROM THE ZONE THERMOSTAT OR TEMPERATURE SENSOR. IF ZONE TEMPERATURE DROPS BELOW THE ZONE TEMPERATURE SETPOINT, THE INDOOR UNIT SHALL BE ENABLED TO PROVIDE HEATING. IF ZONE TEMPERATURE RISES ABOVE THE ZONE TEMPERATURE SETPOINT, THE INDOOR UNIT SHALL BE ENABLED TO PROVIDE COOLING.

2.11. AVERAGING THERMOSTAT SENSORS

2.11.1. ZONE TEMPERATURES SHALL BE OBTAINED FROM THE TEMPERATURE SENSORS. THE BUILDING AUTOMATION SYSTEM SHALL AVERAGE THE TEMPERATURES. IF THE AVERAGED ZONE TEMPERATURE DROPS BELOW THE ZONE TEMPERATURE SETPOINT, THE INDOOR UNIT SHALL BE ENABLED TO PROVIDE HEATING. IF AVERAGED ZONE TEMPERATURE RISES ABOVE THE ZONE TEMPERATURE SETPOINT, THE INDOOR UNIT SHALL BE ENABLED TO PROVIDE COOLING.


a|r|c ARCHITECTS
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CONTENTS:
**SEQUENCE OF OPERATIONS AND POINTS LIST**

SCALE:
DRAWN: KHT
CHECKED: JB
PROJECT NO: 20-034

SHEET:
**M302**

## SYMBOL LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| | COLD WATER PIPING |
| | WASTE PIPING |
| | VENT PIPING |
| | PIPE DOWN |
| | PIPE UP |
| | BRANCH - TOP CONNECTION |
| | BRANCH - BOTTOM CONNECTION |
| | BRANCH - SIDE CONNECTION |
| | CAP END OF PIPE |
| | PIPE OR DUCT BREAK (GRAPHIC ONLY - CONTINUOUS PIPE/DUCT) |
| | FLOW DIRECTION |
| | GATE VALVE |
| | PRESSURE REDUCING VALVE |
| | CHECK VALVE |
| | TEMPERATURE & PRESSURE RELIEF VALVE |
| | BALL VALVE |
| | PETE'S PLUG |
| | GAS COCK |
| | CIRCULATION PUMP |
| | PUMP |
| | CIRCUIT SETTER |
| | BALANCING VALVE |
| BFP | BACKFLOW PREVENTER ASSEMBLY |
| | FLOOR DRAIN |
| | FLOOR & FUNNEL DRAIN |
| | FLEXIBLE PIPE CONNECTION |
| | EXPANSION JOINT |
| | AUTOMATIC OR MANUAL AIR VENT |
| | REDUCER |
| | ECCENTRIC REDUCER |
| | STRAINER |
| | STRAINER W/ BLOWDOWN VALVE & 3/4" HOSE CONNECTION |
| | UNION |
| | DRAIN VALVE W/ 3/4" HOSE CONNECTION |
| | DRAIN/BLOWDOWN VALVE W/ 3/4" HOSE CONNECTION |
| M | METER |
| | FUNNEL DRAIN |

## ABBREVIATIONS LIST

| | |
|---|---|
| °F | DEGREES FAHRENHEIT |
| A/E | ARCHITECT/ENGINEER |
| ABAAS | ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARDS |
| ADA | AMERICANS WITH DISABILITIES ACT |
| AFF | ABOVE FINISHED FLOOR |
| AG | AIRGAP |
| AMP | AMPERES |
| ASJ | ALL SERVICE JACKET |
| ASME | AMERICAN SOCIETY OF MECHANICAL ENGINEERS |
| BFP | BACKFLOW PREVENTER |
| BTU | BRITISH THERMAL UNIT |
| BTUH | BRITISH THERMAL UNITS PER HOUR |
| CFH | CUBIC FEE PER HOUR |
| CV | COEFFICIENT OF FLOW |
| CW | COLD WATER |
| DF | DRINKING FOUNTAIN |
| DN | DOWN |
| EC | ELECTRICAL CONTRACTOR |
| FCO | FLUSH CLEANOUT |
| FD | FLOOR DRAIN |
| FLR | FLOOR |
| FT | FEET |
| FU | FIXTURE UNITS |
| G | GAS |
| GA | GAUGE |
| GAL | GALLON |
| GC | GENERAL CONTRACTOR |
| GPD | GALLONS PER DAY |
| GPF | GALLONS PER FLUSH |
| GPM | GALLONS PER MINUTE |
| HP | HORSEPOWER |
| HW | HOT WATER |
| HWC | HOT WATER CIRCULATION |
| IBC | INTERNATIONAL BUILDING CODE |
| ID | INSIDE DIAMETER |
| IN | INCH |
| KW | KILOWATT |
| LAV | LAVATORY |
| LB | POUND |
| LBS | POUNDS |
| LF | LINEAR FEET |
| MAX | MAXIMUM |
| MBH | THOUSAND BRITISH THERMAL UNITS PER HOUR |
| MC | MECHANICAL CONTRACTOR |
| MCA | MINIMUM CIRCUIT AMPACITY |
| MFR | MANUFACTURER |
| MIN | MINIMUM |
| MOCP | MAXIMUM OVERCURRENT PROTECTION |
| MRT | MEAN RADIANT TEMPERATURE |
| N/A | NOT APPLICABLE |
| NFPA | NATIONAL FIRE PROTECTION ASSOCIATION |
| NPSHR | NOMINAL PUMP SUCTION HEAD REQUIRED |
| PB | PRESSURE BALANCE |
| PRV | PRESSURE REDUCING VALVE |
| PSI | POUNDS PER SQUARE INCH |
| PVC | POLYVINYL CHLORIDE |
| RP | REDUCED PRESSURE |
| TEMP | TEMPERATURE |
| TS | THERMOSTATIC |
| TW | TEMPERED WATER |
| TYP | TYPICAL |
| V | VENT |
| VTR | VENT THROUGH ROOF |
| W/ | WITH |
| W | WASTE |
| WB | WET BULB |
| WC | WATER COLUMN |
| WCO | WALL CLEANOUT |

## GENERAL NOTES

1. PROVIDE SYSTEM STARTUP, TESTING, ADJUSTMENTS, AND REPORTS TO MEET MINIMUM REQUIREMENTS OF WASHINGTON STATE ENERGY CODE - COMMERCIAL PROVISIONS SECTION C408.
2. CONTRACTOR SHALL SUPPORT SYSTEM COMMISSIONING AND SHALL COORDINATE WITH PROJECT COMMISSIONING AGENT.
3. CONTRACTOR SHALL PROVIDE ALL DOCUMENTATION REQUIRED TO SUPPORT SYSTEM COMMISSIONING.
4. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND CONSTRUCTION FEES. FURNISH COPIES OF ALL CONSTRUCTION PERMITS, FINAL APPROVED PERMITS, AND SIMILAR DOCUMENTS TO OWNER DOCUMENTING COMPLIANCE WITH CODE REQUIREMENTS.
5. PROVIDE ENERGY METERING DEVICES FORELECTRICAL, GAS AND LIQUID FUEL SUPPLY, DISTRICT, AND SITE GENERATED RENEWABLE ENERGY PER WASHINGTON STATE ENERGY CODE SECTION C409 AND SPECIFICATIONS. ELECTRICAL METERING IS PER ELECTRICAL DOCUMENTS. DISPLAY SHALL BE WEB BASE ACCESSIBLE THROUGH THE BUILDING MANAGEMENT SYSTEM . SEE SPECIFICATIONS. METERING SHALL APPLY ONLY TO NEW AND REPLACED SYSTEMS.
6. LOCATE ALL VALVES, TRAPS, TEST PORTS, DAMPERS, CONTROLS, CLEANOUTS, ETC. TO BE ACCESSIBLE FOR MAINTENANCE, ADJUSTMENT, & TESTING. PROVIDE ACCESS PANELS FOR ALL CONCEALED DEVICES. ACCESS PANEL LOCATIONS SHALL BE COORDINATED WITH ARCHITECT.
7. ALL PIPING IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE THE SUSPENDED CEILING SYSTEM. REFER TO ARCHITECTURAL DOCUMENTS FOR FURRING & CHASE LOCATIONS & SIZES.
8. ALL PIPING ROUTED EXPOSED IN AREAS ADJACENT TO VEHICLE TRAFFIC SHALL BE PROVIDED WITH STEEL PIPE PROTECTION (BOLLARDS, GUARD RAILS, PLATING, OR SIMILAR).
9. PROVIDE COMPLETE CONDENSATE DRAINAGE SYSTEM FOR ALL VRF SYSTEM COMPONENTS. FIELD ROUTE DRAINAGE PIPING FROM EQUIPMENT TO NEAREST DRAIN LOCATION (SUCH AS SERVICE SINK, FUNNEL DRAIN, ETC.). SLOPE NON-PRESSURIZED DRAIN PIPING TO DRAIN LOCATION. PIPING & FITTINGS SHALL BE PVC OR COPPER. USE COPPER FOR ALL PLENUM APPLICATIONS OR WHERE NONCOMBUSTIBLE PIPING IS REQUIRED. MINIMUM PIPE SIZE SHALL BE 3/4". INCREASE PIPE SIZE WHERE APPLICABLE PER IMC 307.2.2.
10. PROVIDE COMPLETE IMC 307.2.3-COMPLIANT SECONDARY CONDENSATE DRAINAGE SYSTEM FOR ALL VRF SYSTEM COMPONENTS, INCLUDING PIPING, FITTINGS, DRAIN PANS, AND WATER LEVEL DETECTION DEVICES. FIELD ROUTE DRAINAGE PIPING FROM EQUIPMENT TO NEAREST CONSPICUOUS DRAIN LOCATION. COORDINATE DRAIN LOCATION WITH OWNER'S TECHNICAL REPRESENTATIVE. SLOPE NON-PRESSURIZED DRAIN PIPING TO DRAIN LOCATION. PIPING & FITTINGS SHALL BE PVC OR COPPER. USE COPPER FOR ALL PLENUM APPLICATIONS OR WHERE NONCOMBUSTIBLE PIPING IS REQUIRED. MINIMUM PIPE SIZE SHALL BE 3/4". INCREASE PIPE SIZE WHERE APPLICABLE PER IMC 307.2.2.
11. PIPING SHALL BE ROUTED SO AS NOT TO OBSTRUCT ACCESS OR CAUSE TRIPPING OR OTHER HAZARDS.
12. PIPING SHALL BE ROUTED SO AS TO MAINTAIN CODE-REQUIRED CLEARANCES FOR ELECTRICAL EQUIPMENT, ADA ACCESSIBILITY, AS WELL AS MAINTAINING CLEAR ACCESS AT ALL DOORS, WINDOWS, & OTHER ARCHITECTURAL FEATURES IN THE BUILDING.
13. PROVIDE 5W/FT HEAT TRACE FOR ALL DOMESTIC WATER PIPING & P-TRAPS IN UNHEATED SPACES.
14. DISCHARGE TEMPERATURE OF PUBLIC LAVATORIES SHALL BE 104 DEGREES FAHRENHEIT.
15. CONFIGURE HOT AND TEMPERED WATER CONNECTIONS TO LAVATORY FIXTURES SO THAT MAXIMUM UN-RECIRCULATED PIPING LENGTH DOES NOT EXCEED 24" DEVELOPED LENGTH FROM RECIRCULATION CONNECTION TO FIXTURE INLET.
16. UN-RECIRCULATED HOT AND TEMPERED WATER SYSTEM BRANCHES SHALL NOT EXCEED 25 FEET IN DEVELOPED LENGTH AT ANY LOCATION.
17. PROVIDE R-10 INSULATED SURFACE UNDER ELECTRIC WATER HEATERS.
18. ALL PRESSURES LISTED ARE GAGE PRESSURES UNLESS OTHERWISE NOTED.
19. PROVIDE SEISMIC SUPPORT, BRACING, AND ATTACHMENTS FOR DUCTWORK, PIPING, AND EQUIPMENT.
20. COORDINATE ALL FIRE PROTECTION WORK WITH OTHER TRADES TO INSURE PROPER AND ADEQUATE INTERFACE OF THEIR WORK WITH THE WORK SHOWN ON THESE DOCUMENTS. CONTRACTOR SHALL PROVIDE COORDINATED SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION.
21. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR SYSTEM LAYOUT, DESIGN, AND COORDINATING PIPE PLACEMENT AND ROUTING OF PIPING WITH OTHER TRADES. SHOP DRAWINGS SHALL COMPLY WITH NFPA REQUIREMENTS. DUCTWORK AND OTHER PIPING SYSTEMS HAVE ROUTING PRIORITY OVER FIRE PROTECTION PIPING.
22. SLOPE HORIZONTAL FIRE PROTECTION PIPING TO FACILITATE DRAINAGE TO SYSTEM LOW POINTS. PROVIDE DRAIN VALVES AT ALL SYSTEM LOW POINTS.
23. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 70 STANDARDS AND LOCAL REQUIREMENTS.
24. ALL FIELD WIRING SHALL REQUIRE AN ELECTRICAL PERMIT AND SHALL BE PERFORMED BY A LICENSED ELECTRICIAN.
25. A SHORT DASH IN A SCHEDULE TABLE CELL INDICATES THAT THE COLUMN HEADING IS NOT USED OR NOT APPLICABLE TO THAT SCHEDULED ITEM.


a|r|c ARCHITECTS

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04/16/2021
REGISTERED PROFESSIONAL ENGINEER

# The Chehalis Tribe
# Chehalis Elder Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: 04/16/2021

| REVISION | DATE | DESCRIPTION |
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CONTENTS:

**LEGENDS, ABBREVIATIONS, AND GENERAL NOTES**

| | |
|---|---|
| SCALE: | 12" = 1'-0" |
| DRAWN: | KBT |
| CHECKED: | KHT |
| PROJECT NO: | 20-034 |

SHEET:

**P001**

## KITCHEN PLUMBING FIXTURE SCHEDULE

| SYMBOL | FIXTURE | MANUFACTURER | MODEL | DESCRIPTION | PLUMBING CONNECTIONS (IN) | | | | | FLOW | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | WASTE | INDW | VENT | HW | CW | GPH | |
| | UNDERCOUNTER WATER CHILLER | - | - | - | - | - | - | - | 1/2" | - | 1 |
| 010 | SOILED DISHTABLE ASSEMBLY WITH SINGLE COMP SINK | - | - | SOILED DISHTABLE ASSEMBLY WITH SINGLE COMPARTMENT SINK | - | 2" | - | 1/2" | 1/2" | 35.00 | 1 |
| 011 | DISHWASHER | - | - | DISHWASHER WITH BOOSTER HEATER (VENTLESS) | - | 2" | - | 1/2" | 1/2" | 26.60 | 1 |
| 012 | CLEAN DISHTABLE ASSEMBLY WITH 3 COMP SINK | - | - | SOILED DISHTABLE ASSEMBLY WITH TRIPLE COMPARTMENT SINK | - | 2" | - | 3/4" | 3/4" | 60.00 | 1 |
| 020 | HAND SINK | - | - | HAND SINK | 2.00 | - | 2.00 | 1/2" | 1/2" | 5.00 | 1 |
| 021 | EYE WASH | - | - | EMERGENCY EYE WASH | 2.00 | - | 2.00 | 1/2" | - | - | 1, 2 |
| 022 | WORKTABLE WITH SINGLE COMP SINK | - | - | WORKTABLE WITH SINGLE COMPARTMENT SINK | - | 2" | - | 1/2" | 1/2" | - | 1 |
| 025 | WORKTABLE WITH DOUBLE COMP SINK | - | - | WORKTABLE WITH DOUBLE COMPARTMENT SINK | - | 2" | - | 1/2" | 1/2" | - | 1 |
| 041 | REFRIGERATED HOT/COLD PANS | - | - | REFRIGERATED HOT/COLD PANS | - | - | - | - | 1/4" | - | 1 |
| 053 | CHILLED WATER DISPENSER | - | - | CHILLED WATER DISPENSER WITH DRIP THROUGH | - | 2" | - | - | 1/2" | - | 1 |
| 056 | COFFEE MAKER | - | - | COFFEE MAKER | - | - | - | - | 1/2" | - | 1 |
| 057 | ICED TEA BREWER | - | - | ICED TEA BREWER | - | - | - | - | 1/2" | - | 1 |

NOTES:
1. REFER TO KITCHEN DESIGN DOCUMENTS FOR INFORMATION ON KITCHEN EQUIPMENT
2. TO BE SERVED BY WH-1.

## ELECTRIC TANK-TYPE WATER HEATER SCHEDULE

| SYMBOL | MANUFACTURER | MODEL | CAPACITY | DISCHARGE | RECOVERY | | ELECTRICAL | | | | | EFF | WEIGHT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (GAL) | TEMP (°F) | GPH | TEMP RISE | VOLT | PHASE | KW | MCA | MOCP | % | (LBS) | |
| WH-1 | CEMLINE | V120CTB30 | 120 | 120 | 245.74 | 50 | 208 | 1 | 30.00 | - | - | 99 | - | |

NOTES:

## TANKLESS WATER HEATER SCHEDULE

| SYMBOL | MANUFACTURER | MODEL | SERVES | DISCHARGE | TEMP RISE | GPM | ELECTRICAL | | | | | | EFF | WEIGHT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | TEMP (°F) | | | VOLT | PHASE | KW | AMPS | MCA | MOCP | % | (LBS) | |
| WH-2 | EEMAX | EX144T2 EE | EYE WASH | 84 | 29 | 3.7 | 240 | 1 | 15.00 | 64.00 | - | - | 99 | 11 | 1 |

NOTES:
1. INSTALL IN ACCORDANCE WITH ANSI TEPID WATER REQUIREMENT MAX WATER TEMPERATURE.

## GREASE TRAP SCHEDULE

| SYMBOL | MANUFACTURER | MODEL | MAX | CAPACITY | | CONNECTIONS (IN) | | INSTALLATION | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| | | | GPM | TOTAL (GAL) | GREASE (GAL) | INLET | OUTLET | | |
| GI-1 | ZURN | GMC 1000 UPC | 200 | 1000 | 577 | 4.00 | 4.00 | BURIED | 1 |

NOTES:
1. PROVIDE WITH (2) AASHTO HS-20 TRAFFIC-RATED HINGED LOCKING HATCHES.

## PLUMBING FIXTURE SCHEDULE

| SYMBOL | FIXTURE | MANUFACTURER | MODEL | DESCRIPTION | PLUMBING CONNECTIONS (IN) | | | | | FLOW | | ELECTRICAL | | | | MOUNTING | FINISH | WEIGHT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | WASTE | INDW | VENT | HW | CW | GPM | GPF | W | AMP | VOLT | PHASE | | | (LBS) | |
| P-1 | WATER CLOSET<br>SEAT<br>FLUSH VALVE | TOTO<br>TOTO<br>TOTO | CT708UGX<br>SC534<br>TET6UA32#CP | 1.0 GPM WALL HUNG WATER CLOSET<br><br>1 GPF EXPOSED SENSOR HYDROELECTRIC FLUSH VALVE WITH OVERRIDE | 4" | - | 2" | - | 1" | - | 1.00 | | | | | WALL | WHITE<br>WHITE<br>CHROME | 56 | 7 |
| P-1A | ADA WATER CLOSET<br>SEAT<br>FLUSH VALVE | TOTO<br>TOTO<br>TOTO | CT705ULN(G)<br>SC534<br>TET6UA32#CP | 1.0 GPM WALL HUNG ADA WATER CLOSET<br><br>1 GPF EXPOSED SENSOR HYDROELECTRIC FLUSH VALVE WITH OVERRIDE | 4" | - | 2" | - | 1" | - | 1.00 | | | | | WALL | WHITE<br>WHITE<br>CHROME | 56 | 1, 7 |
| P-2 | URINAL<br>FLUSH VALVE | TOTO<br>TOTO | UT445U<br>TEU1UA12#CP | 0.125 GPM TOP SPUD WALL HUNG URINAL<br>0.125 GPF EXPOSED SMART SENSOR HYDROELECTRIC FULSH VALVE | 2" | - | 2" | - | 3/4" | - | 0.125 | | | | | WALL | WHITE<br>CHROME | 60 | 7 |
| P-3A | ADA LAVATORY<br>FAUCET | AMERICAN STANDARD<br>AMERICAN STANDARD | 475.047<br>605B.104 | COUNTER LAY IN SINK WITH CENTER HOLE<br>0.35 GPM, HARDWIRED SENSOR FAUCET | 2" | - | 2" | 1/2" | 1/2" | 0.35 | - | | | 120 | 1 | COUNTER | WHITE<br>CHROME | - | 1,3,4,5 |
| P-4A | ADA LAVATORY<br>FAUCET | AMERICAN STANDARD<br>AMERICAN STANDARD | 356.421<br>605B.104 | WALL MOUNT WITH WALL HANGER AND CENTER HOLE<br>0.35 GPM, HARDWIRED SENSOR FAUCET | 2" | - | 2" | 1/2" | 1/2" | 0.35 | - | | | 120 | 1 | WALL | WHITE<br>CHROME | - | 1,2,3,4,5 |
| P-5 | DOUBLE COMPARTMENT SINK<br>FAUCET | AMERICAN STANDARD<br>AMERICAN STANDARD | 18DB.6332211.075<br>605B.165 | STAINLESS STEEL DOUBLE COMPARTMENT SINK WITH<br>0.5 GPM GOOSENECK FAUCET | 2" | - | 2" | 1/2" | 1/2" | 0.50 | - | | | 120 | 1 | COUNTER | STAINLESS<br>CHROME | - | 13 |
| P-6 | ADA DRINKING FOUNTAIN | ELKAY | EZOOTL8WSLK | DUAL HEIGHT ADA DRINKING FOUNTAIN WITH BOTTLE FILLER | 2" | - | 2" | - | 1/2" | 1.10 | - | 370 | 6.00 | 120 | 1 | WALL | LIGHT GRAY | 101 | 10,11,12 |
| P-7A | SHOWER | ACORN | 538ADA--CHS-FH-FSP-LRD | ADA SHOWER WITH HIGH AND LOW SHOWER HEADS | 2" | - | 2" | 3/4" | 3/4" | 1.50 | - | - | - | - | - | WALL | STAINLESS | - | 1,8 |
| P-8 | UTILITY SINK<br>FAUCET | MUSTEE<br>MUSTEE | 19CFT UTILATUB<br>- | COMBO LAUNDRY/UTILITY TUB<br>WITH 6" SWING FAUCET | 2" | - | 2" | 3/4" | 3/4" | - | - | - | - | - | - | FLOOR | WHITE | 24 | |
| P-9 | JANITOR SINK<br>FAUCET | STERN WILLIAMS<br>STERN WILLIAMS | CRS-2200<br>T-10-VB | 28"x28"x12" MOP SINK | 2" | - | 2" | 3/4" | 3/4" | 2.50 | - | - | - | - | - | FLOOR<br>WALL | WHITE WITH<br>GREY CHIPS | - | |
| P-10 | SOAK SINK<br>FAUCET | -<br>AMERICAN STANDARD | -<br>4931.38 | STAINLESS STEEL SINK WITH INTEGRAL DRAINBOARD<br>1.5 GPM GOOSENECK PULL DOWN HANDS FREE FAUCET | 2" | - | 2" | 1/2" | 1/2" | 1.15 | - | - | - | - | - | COUNTER<br>WALL | STAINLESS<br>CHROME | - | 14 |
| P-11 | WALL HYDRANT | JR SMITH | 5509QT-SAP | FREEZEPROOF CONFIGURATION | - | - | - | - | 3/4" | - | - | - | - | - | - | WALL | STAINLESS | - | 9 |
| P-12 | CLOTHES WASHER BOX | OATEY | 38528 | WASHING MACHINE OUTLET BOX | 2" | - | - | 3/4" | 3/4" | - | - | - | - | - | - | WALL | POLYSTYRENE | - | |
| P-13 | POST HDYRANT | JR SMITH | 5909 | FREEZE RESISTANT POST HYDRANT | - | - | - | - | 3/4" | - | - | - | - | - | - | GROUND | GALVANIZED | - | |
| FD-1 | FLOOR DRAIN | JR SMITH | 2005 | FLOOR DRAIN | 2" | - | 2" | - | - | - | - | - | - | - | - | FLOOR | CAST IRON | - | |
| FD-2 | FUNNEL FLOOR DRAIN | JR SMITH | 2005 | FLOOR DRAIN WITH FUNNEL | 3" | - | 2" | - | - | - | - | - | - | - | - | FLOOR | CAST IRON | - | 6 |
| FS-1 | FLOOR SINK | ZURN | Z1750 | 12"x12"X6" STAINLESS STEEL | 2" | - | 2" | - | - | - | - | - | - | - | - | FLOOR | STAINLESS | - | |

NOTES:
1. INSTALL IN ACCORDANCE WITH ADA REQUIREMENTS.
2. LAVATORIES TO BE MOUNTED TO WALL WITH MANUFACTURERS' CARRIER AND STEEL BACKING PLATE.
3. PROVIDE WITH TEMPERING VALVE AT EACH FIXTURE.
4. PROVIDE WITH 1-1/4" TRAP & TAILPIECE.
5. PROVIDE WITH HARDWIRED ELECTRICAL CONNECTION CONFIGURATION, INCLUDING TRANSFORMER.
6. PROVIDE WITH FUNNEL OPTION FIGURE 3581.
7. PROVIDE WITH ZURN Z1201 WALL CARRIER.
8. PROVIDE ONE SHOWER HEAD AT 84" AFF AND A SECOND SHOWER HEAD AT 48" AFF.
9. PROVIDE WITH HINGED LOCKING STAINLESS STEEL COVER.
10. PLUG-IN ELECTRICAL CONNECTION.
11. PROVIDE WITH ELKAY MLP200 BI-LEVEL WALL CARRIER.
12. INCLUDES ELKAY EZWSR TOUCHLESS BOTTLE FILLER & ELKAY EZ00TL8WSLC WATER COOLER.
13. CONVERT IN FIELD TO SWIVEL TUBULAR BRASS GOOSENECK SPOUT.
14. BATTERY PACK OPERATED.

## PUMP SCHEDULE

| SYMBOL | MANUFACTURER | MODEL | SERVICE | TYPE | FLOW | | | HEAD | NPSHR | RPM | ELECTRICAL | | | | | STARTER | | | | MOUNTING | WEIGHT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | GPM (DESIGN) | GPM (MIN) | GPD | (FT) | (FT) | | HP | W | AMP | VOLT | PHASE | VFD | MFG | EC | N/A | | (LBS) | |
| CP-1 | BELL & GOSSETT | ECOCIRC 19-16 | DOMESTIC CIRCULATION | CIRC. PUMP | 2 | - | - | 10 | - | 2060 | - | - | - | 120 | 1 | - | X | - | - | INLINE | - | |
| BP-1 | GOULDS | 15SV2GG4F60V32 | DOMESTIC WATER BOOSTER | MULTI-STAGE | 65 | - | - | 107 | 5 | 3500 | 5.00 | - | 12.40 | 208 | 3 | - | X | - | - | INLINE | 44 | |

NOTES:

## EXPANSION TANK SCHEDULE

| SYMBOL | MANUFACTURER | MODEL | SERVES | TYPE | CONFIGURATION | PRESSURE | VOLUME (GAL) | | WEIGHT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | (PSI) | TOTAL | ACCEPTANCE | (LBS) | |
| ET-1 | AMTROL | ST-20-VC | DOMESTIC HW | EXPANSION TANK | DIAPHRAGM | 150 | 8.00 | 3.20 | 4.5 | 1 |
| ET-2 | WESSELS | FXA-300 | BP-1 | EXPANSION TANK | BLADDER | 125 | 79.00 | - | 225 | 1 |

NOTES:
1. ASME...

## PIPE INSULATION SCHEDULE

| APPLICATION | TEMP RANGE | INSULATION CONDUCTIVITY | | NOMINAL PIPE SIZE (IN) | | | | | TYPE | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|
| | (°F) | K FACTOR | MRT (°F) | <1" | 1" - 1-1/4" | 1-1/2" - 3" | 4" - 8" | >8" | | |
| HW, HWC | 105-140 | 0.21-0.28 | 100 | 1.0 | 1.0 | 1.5 | 1.5 | 1.5 | FIBERGLASS W/ ASJ | 1,2 |
| CW | 40-60 | 0.21-0.27 | 75 | 0.5 | 0.5 | 1.0 | 1.0 | 1.0 | FIBERGLASS W/ ASJ | 1,2 |
| RAINLEADER | 40-60 | 0.21-0.27 | 75 | 0.5 | 0.5 | 1.0 | 1.0 | 1.0 | FIBERGLASS W/ ASJ | 1,2 |
| CONDENSATE DRAIN | 40-60 | 0.21-0.27 | 75 | 0.5 | 0.5 | 1.0 | 1.0 | 1.0 | FIBERGLASS W/ ASJ | 1,2,3 |
| DRAINS AND TRAPS | <40 | 0.20-0.26 | 75 | 0.5 | 1.0 | 1.0 | 1.0 | 1.5 | FLEXIBLE ELASTOMERIC | 1,2,3 |

GENERAL NOTES:
1. PROVIDE WITH PVC JACKETING IN ALL EXPOSED LOCATIONS (MECHANICAL ROOMS, UTILITY ROOMS, STORAGE ROOMS, ETC.).
2. INSULATION REQUIREMENTS SHALL ALSO APPLY TO HEAT TRACED PIPING APPLICATIONS.
3. PROVIDE WITH ALUMINUM JACKETING FOR ALL EXTERIOR LOCATIONS.

## BACKFLOW PREVENTER SCHEDULE

| SYMBOL | MANUFACTURER | MODEL | LINE | SERVICE | TYPE | | | AIRGAP | WATER PRESSURE DROP | WEIGHT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SIZE (IN) | | RP | DC | AG | (IN) | PSI | (LBS) | |
| BFP-1 | WATTS | LF009 | 2.00 | DOMESTIC WATER | X | X | X | 1.00 | 13 | 30 | |
| BFP-2 | WATTS | LF009 | 0.75 | EYE WASH | X | X | X | 1.00 | 14 | 6 | |
| BFP-3 | WATTS | LF009 | 0.75 | MAKE UP WATER | X | X | X | 1.00 | 14 | 6 | |

NOTES:


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|---|---|---|
| | | |

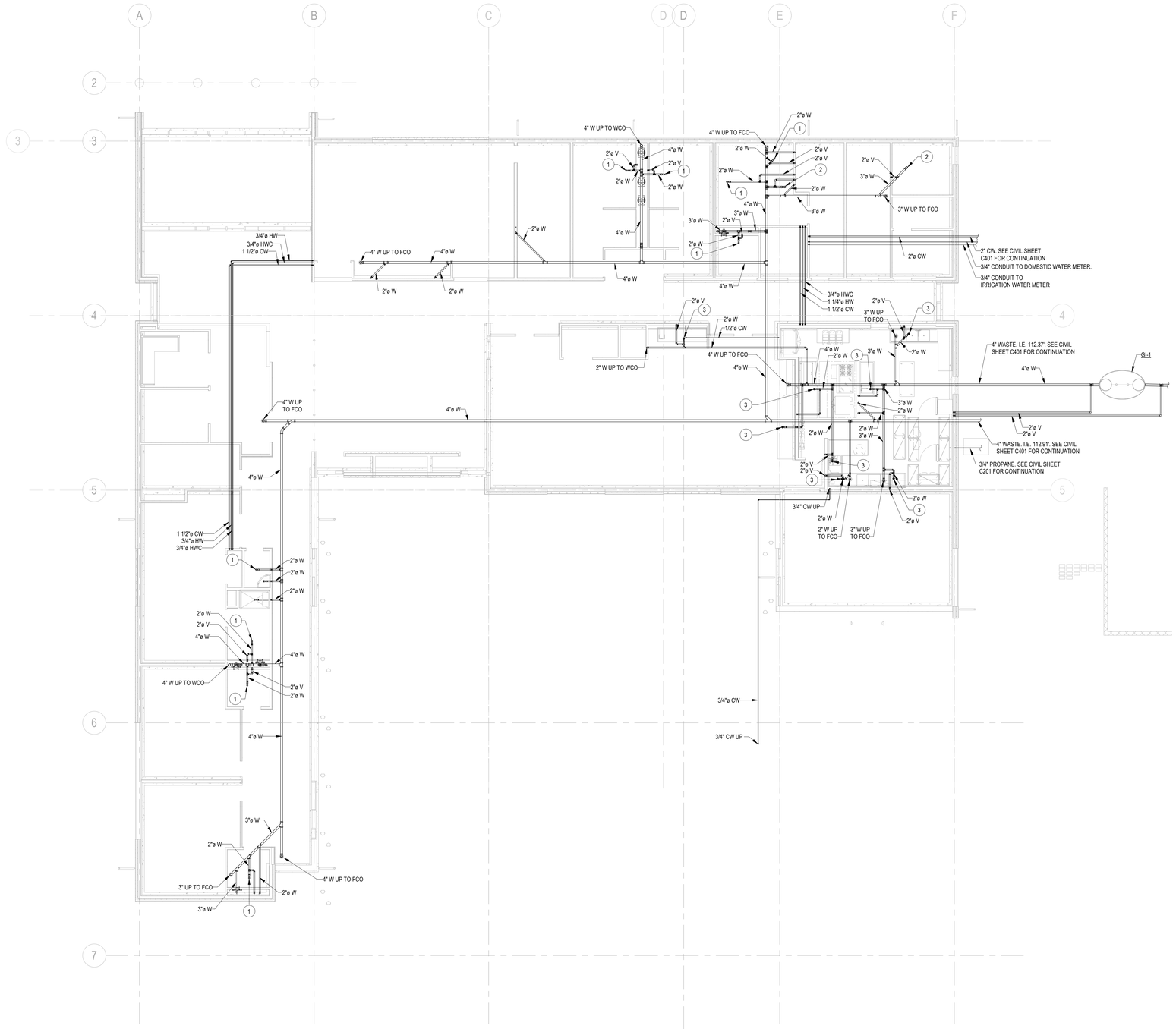
CONTENTS:
**SCHEDULES**

SCALE:
DRAWN: KBT
CHECKED: KHT
PROJECT NO: 20-034

SHEET:
**P002**

## PLAN NOTES

1 2" W UP TO FD-1.
2 3" W UP TO FD-2.
3 2" W UP TO FS-1.




1 **FOUNDATION PLUMBING PLAN**

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

0 4' 8' 16'


arc ARCHITECTS
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**FOUNDATION PLUMBING PLAN**

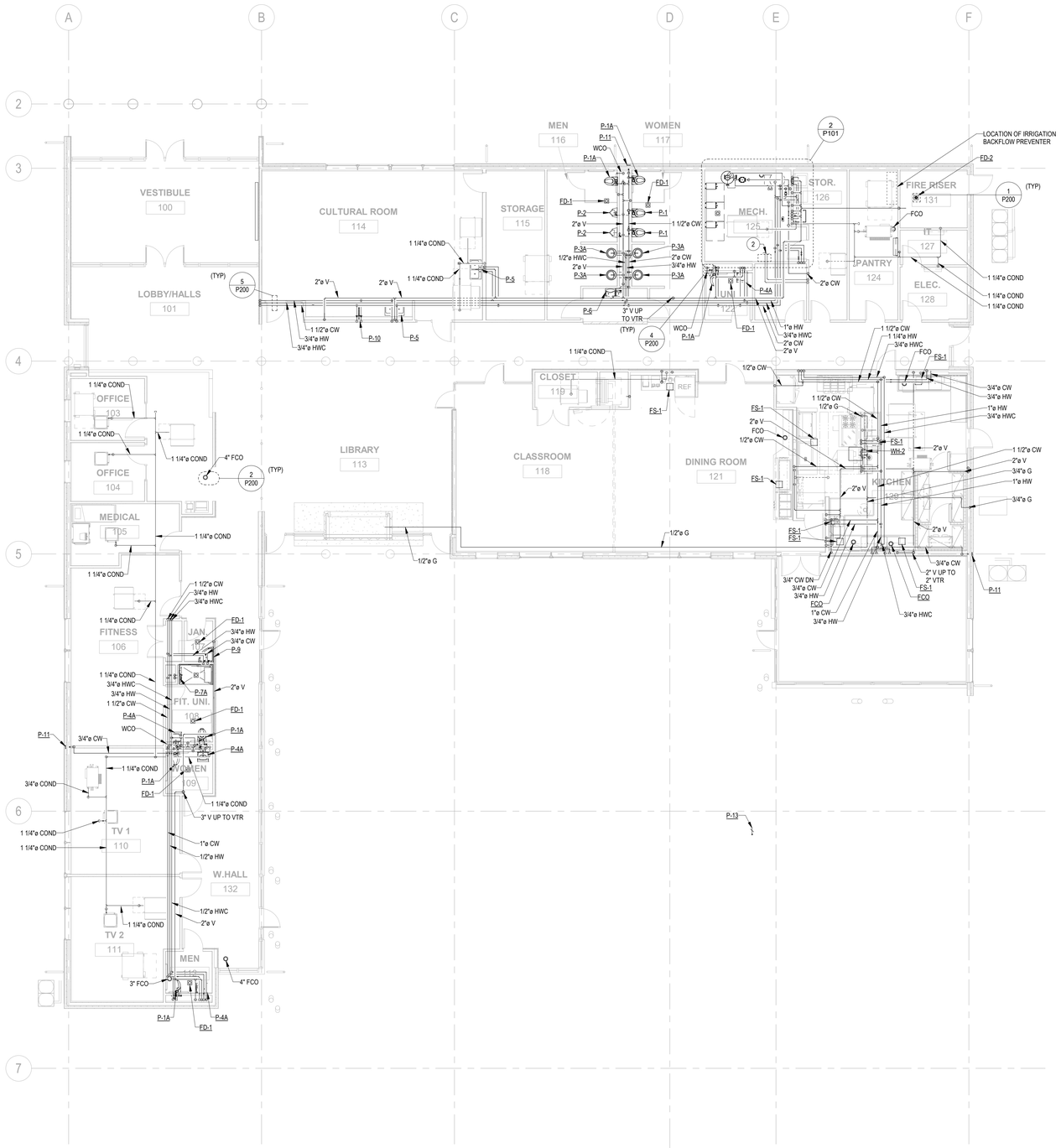
SCALE: 1/8" = 1'-0"
DRAWN: KBT
CHECKED: KHT
PROJECT NO: 20-034

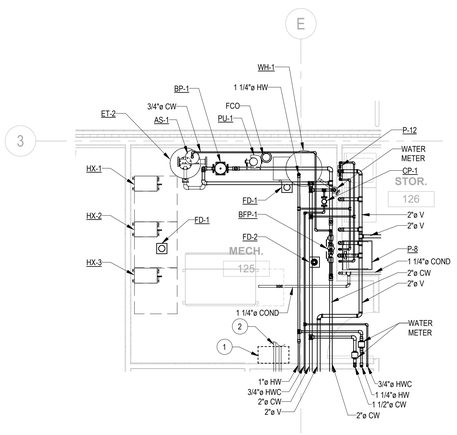
SHEET:

**P100**

## PLAN NOTES

1. IRRIGATION CONTROLLER. SEE LANDSCAPING PLANS FOR INFORMATION.
2. 3/4" CONDUIT TO BE CONTINUED BY CONTROLS CONTRACTOR.




**ENLARGED MECHANICAL ROOM PLAN**

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

0 4' 8' 16'

**FIRST FLOOR PLUMBING PLAN**

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

0 4' 8' 16'


a|r|c ARCHITECTS
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|---|---|---|
| | | |

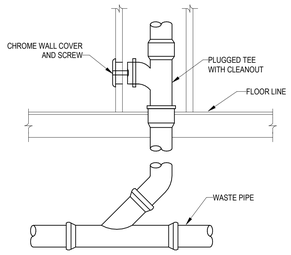
CONTENTS:

**FIRST FLOOR PLUMBING PLAN**

| | |
|---|---|
| SCALE: | As indicated |
| DRAWN: | KBT |
| CHECKED: | KHT |
| PROJECT NO: | 20-034 |

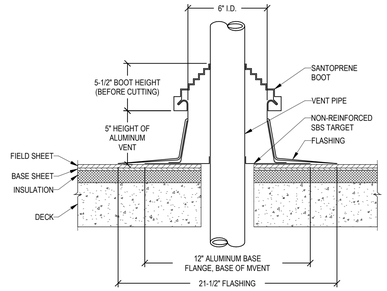
SHEET:

**P101**



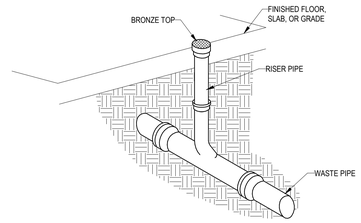

## 4 WALL CLEANOUT DETAIL

SCALE: NONE



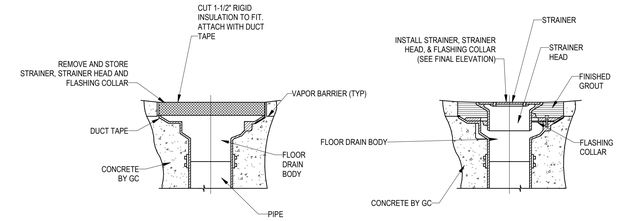

## 3 VENT FLASHING DETAIL

SCALE: NONE




## 2 FLUSH CLEANOUT DETAIL

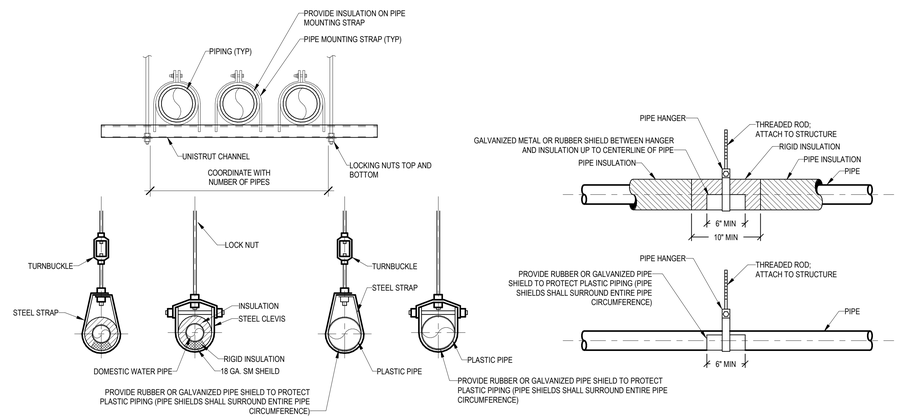
SCALE: NONE




NOTE:
COMPLETE INSTALLATION OF FLOOR DRAIN AND SETTING OF FINAL ELEVATION SHALL NOT BE ALLOWED DURING INITIAL CONCRETE POUR

## 1 FLOOR DRAIN INSTALLATION DETAIL

SCALE: NONE




## 5 PIPE SUPPORT

SCALE: NONE


a|r|c ARCHITECTS
119 S MAIN ST
SUITE 200
SEATTLE, WA
98104-2579
206 322 3322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0052287
04/16/2021
REGISTERED PROFESSIONAL ENGINEER

# The Chehalis Tribe
# Chehalis Elder Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: 04/16/2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
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| | | |
| | | |
| | | |
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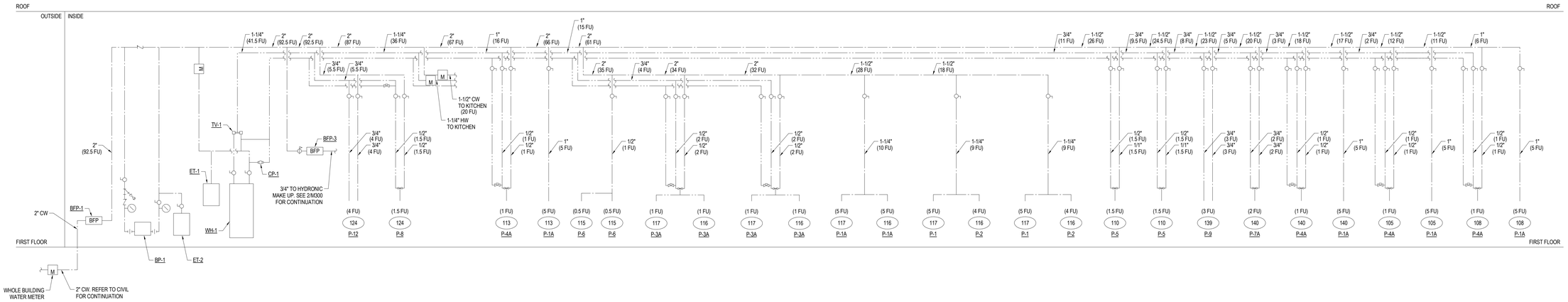
CONTENTS:

**PLUMBING DETAILS**

| | |
|---|---|
| SCALE: | 1/2" = 1'-0" |
| DRAWN: | KBT |
| CHECKED: | KHT |
| PROJECT NO: | 20-034 |

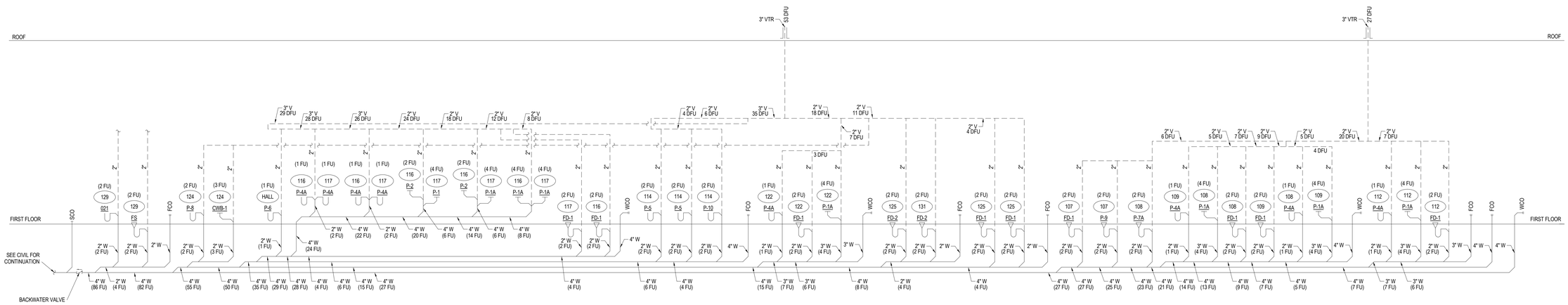
SHEET:

**P200**



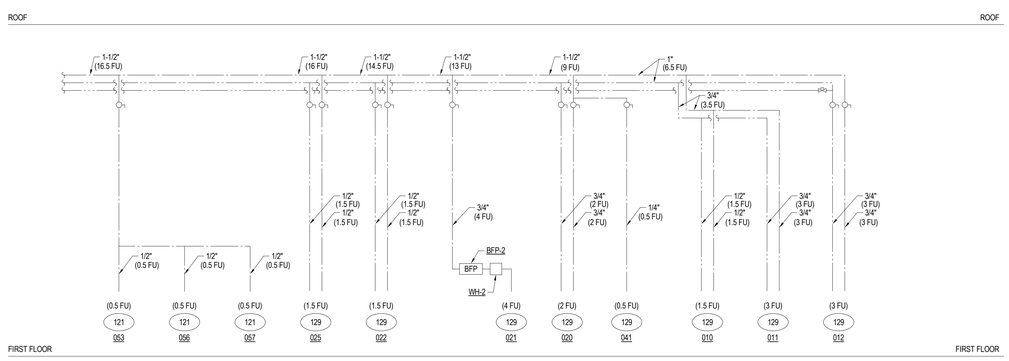

## 1 PLUMBING RISER

SCALE: NONE




## 2 WASTE RISER

SCALE: NONE




## 3 KITCHEN PLUMBING RISER

SCALE: NONE

## 4 KITCHEN WASTE RISER

SCALE: NONE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| | | |

CONTENTS:

**PLUMBING DIAGRAMS**

| | |
|---|---|
| SCALE: | 1/2" = 1'-0" |
| DRAWN: | KBT |
| CHECKED: | KHT |
| PROJECT NO: | 20-034 |

SHEET:

**P300**

## DOMESTIC WATER CALCULATION

| FIXTURE | TOTAL FIX | WSFU | TOTAL WSFU |
|---|---|---|---|
| TUB/SHOWER | | 4.0 | 0 |
| 3/4" BATH FILL | | 10.0 | 0 |
| SHOWER | | 2.0 | 0 |
| BIDET | | 1.0 | 0 |
| CLOTHES WASH. | 1 | 4.0 | 4 |
| DENTAL CUSP. | | 1.0 | 0 |
| DISH WASHER | 1 | 1.5 | 2 |
| WATERCOOLER | 3 | 0.5 | 2 |
| HOSE BIBB | 1 | 2.5 | 3 |
| HOSE BIBB ADD. | 4 | 1.0 | 4 |
| LAVATORY | 8 | 1.0 | 8 |
| EYE WASH | | 1.0 | 0 |
| LAWN SPRINK. EA. | | 1.0 | 0 |
| MOBILE HOME | | 12.0 | 0 |
| BAR SINK | | 2.0 | 0 |
| CLINIC FAUCET | | 3.0 | 0 |
| CLINIC FLUSH VALVE | | 8.0 | 0 |
| KITCHEN SINK | 1 | 1.5 | 2 |
| LAUNDRY SINK | 1 | 1.5 | 2 |
| SERVICE SINK | 2 | 3.0 | 6 |
| HAND SINK | 6 | 2.0 | 12 |
| URINAL 1.0 GPF | 2 | 4.0 | 8 |
| URINAL +1.0 GPF | | 5.0 | 0 |
| URINAL FLUSH TANK | | 2.0 | 0 |
| WASH FOUNT. CIRC. | | 4.0 | 0 |
| WC 1.6 GPF GT | | 2.5 | 0 |
| WC 1.6 GPF FT | | 2.5 | 0 |
| WC 1.6 GPF FV | 8 | 5.0 | 40 |
| WC +1.6 GPF GT | | 5.5 | 0 |
| WC +1.6 GPF FV | | 8.0 | 0 |
| FIXTURE UNITS | | | 91 |
| GALLONS PER MINIUTE | | | 65 |
| SIZE | | | 2" |

## WASTE CALCULATION

| FIXTURE | TOTAL FIX | GPH/FIXTURE | TOTAL UNITS |
|---|---|---|---|
| TUB/SHOWER | 0 | 2.0 | 0 |
| | | | |
| SHOWER | 0 | 2.0 | 0 |
| BIDET | 0 | 2.0 | 0 |
| CLOTHES WASH. | 1 | 3.0 | 3 |
| DENTAL CUSP. | 0 | 1.0 | 0 |
| DISH WASHER | 1 | 2.0 | 2 |
| WATERCOOLER | 3 | 0.5 | 2 |
| FLOOR DRAIN | 15 | 2.0 | 30 |
| EMERGENCY FLOOR DRAIN | 4 | 4.0 | 16 |
| LAVATORY | 8 | 1.0 | 8 |
| EYEWASH | 0 | 1.0 | 0 |
| COM W/ FOOD WASTE | 0 | 3.0 | 0 |
| MOBILE HOME | 0 | 12.0 | 0 |
| BAR SINK | 0 | 1.0 | 0 |
| CLINIC FAUCET | 0 | 6.0 | 0 |
| CLINIC FLUSH VALVE | 0 | 6.0 | 0 |
| KITCHEN SINK | 1 | 2.0 | 2 |
| LAUNDRY SINK | 1 | 2.0 | 2 |
| SERVICE SINK | 2 | 3.0 | 6 |
| HAND SINK | 6 | 2.0 | 12 |
| URINAL 1.0 GPF | 2 | 2.0 | 4 |
| URINAL +1.0 GPF | 0 | 2.0 | 0 |
| URINAL FLUSH TANK | 0 | 2.0 | 0 |
| WASH FOUNT. CIRC. | 0 | 3.0 | 0 |
| WC 1.6 GPF GT | 0 | 4.0 | 0 |
| WC 1.6 GPF FT | 0 | 4.0 | 0 |
| WC 1.6 GPF FV | 8 | 4.0 | 32 |
| WC +1.6 GPF GT | 0 | 6.0 | 0 |
| WC +1.6 GPF FV | 0 | 6.0 | 0 |
| FIXTURE UNITS | | | 119 |
| SIZE | | | 4" |

## GAS CALCULATION

| FIXTURE | MBH | BTU | QUANTITY | TOTAL BTU | CFH |
|---|---|---|---|---|---|
| FIRE PLACE | 61 | 61000 | 1 | 61000 | 61 |
| OB RANGE/GRIDDLE | 224 | 224000 | 1 | 224000 | 224 |
| CONVECTION OVEN | 72 | 72000 | 1 | 72000 | 72 |
| 2018 IFGC | | | TOTAL BTU | 357000 | |
| 2 PSI | 3/4" PIPE | | TOTAL CFH | | 357 |

## GRAVITY GREASE INTERCEPTOR CALCULATION

| FIXTURE | QUANTITY | DFU | TOTAL DFU |
|---|---|---|---|
| FLOOR SINK | 4 | 2 | 8.00 |
| 3 COPM SINK | 1 | 6 | 6.00 |
| 2 COPM SINK | 1 | 4 | 4.00 |
| BAR/HAND SINK | 3 | 2 | 6.00 |
| | | TOTAL DFU | 24.00 |
| | | INTERCEPTOR VOLUME | 1000.00 |

NOTES:

1. CALCULATION BASED ON THE 2018 UNIFORM PLUMBING CODE SECTION 1014.3.6


a|r|c ARCHITECTS

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| | | |
| | | |
| | | |
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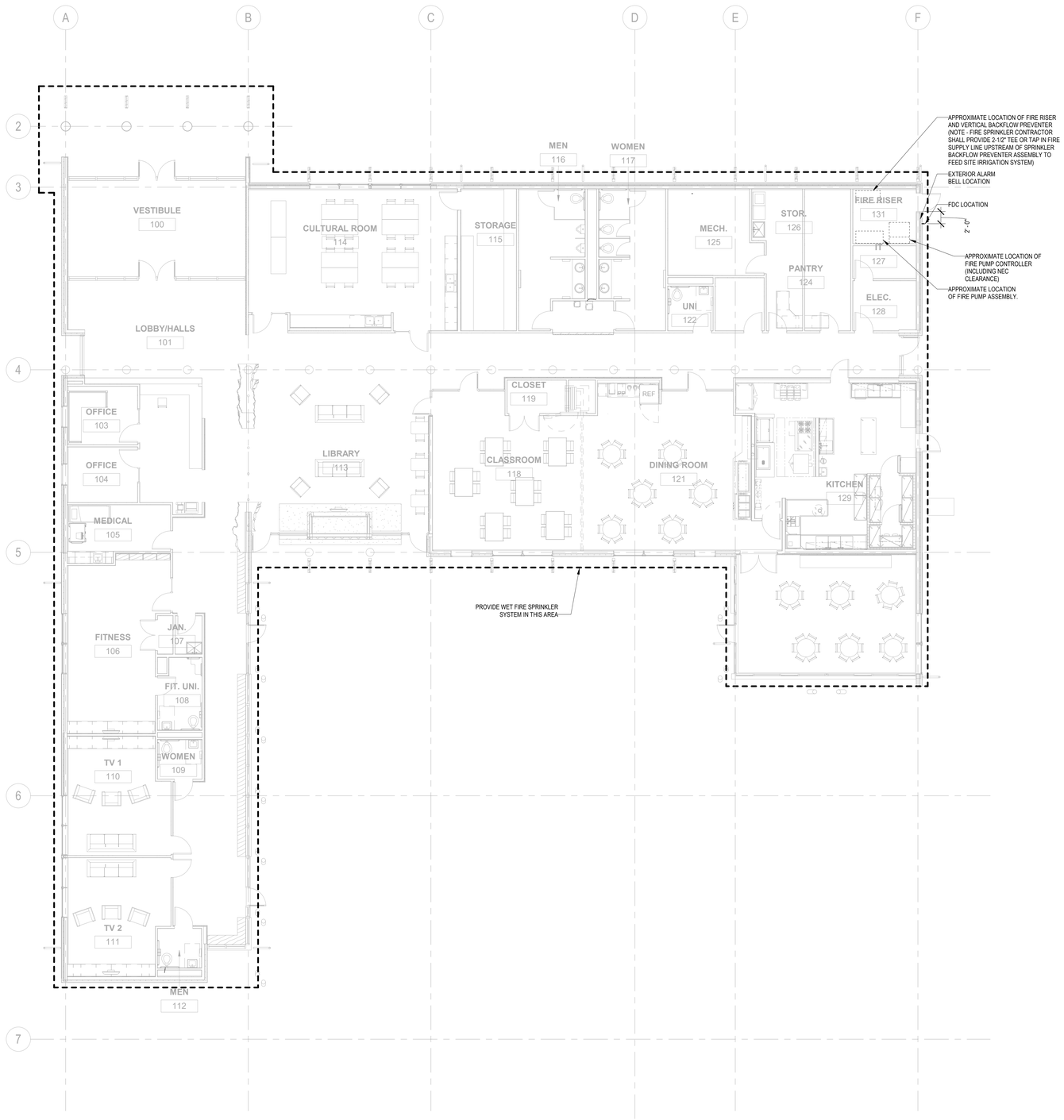
CONTENTS:

**PLUMBING CALCULATIONS**

SCALE:
DRAWN: KBT
CHECKED: KHT
PROJECT NO: 20-034

SHEET:

**P301**




## GENERAL NOTES

1. THE FIRE PROTECTION CONTRACTOR SHALL DESIGN, PERMIT, AND CONSTRUCT THE FIRE PROTECTION SYSTEM IN ACCORDANCE WITH NFPA REQUIREMENTS.
2. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND CONSTRUCTION FEES. FURNISH COPIES OF ALL CONSTRUCTION PERMITS, FINAL APPROVED PERMITS, AND SIMILAR DOCUMENTS TO OWNER DOCUMENTING COMPLIANCE WITH CODE REQUIREMENTS.
3. LOCATE ALL VALVES, TRAPS, TEST PORTS, CONTROLS, ETC. TO BE ACCESSIBLE FOR MAINTENANCE, ADJUSTMENT, & TESTING. PROVIDE ACCESS PANELS FOR ALL CONCEALED DEVICES. ACCESS PANEL LOCATIONS SHALL BE COORDINATED WITH ARCHITECT.
4. ALL PIPING ROUTED EXPOSED IN AREAS ADJACENT TO VEHICLE TRAFFIC SHALL BE PROVIDED WITH STEEL PIPE PROTECTION (BOLLARDS, GUARD RAILS, PLATING, OR SIMILAR).
5. PIPING SHALL BE ROUTED SO AS NOT TO OBSTRUCT ACCESS OR CAUSE TRIPPING OR OTHER HAZARDS.
6. PIPING SHALL BE ROUTED SO AS TO MAINTAIN CODE-REQUIRED CLEARANCES FOR ELECTRICAL EQUIPMENT, ADA ACCESSIBILITY, AS WELL AS MAINTAINING CLEAR ACCESS AT ALL DOORS, WINDOWS, & OTHER ARCHITECTURAL FEATURES IN THE BUILDING.
7. COORDINATE ALL FIRE PROTECTION WORK WITH OTHER TRADES TO INSURE PROPER AND ADEQUATE INTERFACE OF THEIR WORK WITH THE WORK SHOWN ON THESE DOCUMENTS. CONTRACTOR SHALL PROVIDE COORDINATED SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION.
8. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 70 STANDARDS AND LOCAL REQUIREMENTS.
9. ALL FIELD WIRING SHALL REQUIRE AN ELECTRICAL PERMIT AND SHALL BE PERFORMED BY A LICENSED ELECTRICIAN.
10. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR SYSTEM LAYOUT, DESIGN, AND COORDINATING PIPE PLACEMENT AND ROUTING OF PIPING WITH OTHER TRADES. SHOP DRAWINGS SHALL COMPLY WITH NFPA REQUIREMENTS. DUCTWORK AND OTHER PIPING SYSTEMS HAVE ROUTING PRIORITY OVER FIRE PROTECTION PIPING.
11. SLOPE HORIZONTAL FIRE PROTECTION PIPING TO FACILITATE DRAINAGE TO SYSTEM LOW POINTS. PROVIDE DRAIN VALVES AT ALL SYSTEM LOW POINTS.
12. CONTRACTOR SHALL SCAN WALLS, FLOORS, CEILINGS, AND OTHER SURFACES THAT COULD CONCEAL COMPONENTS SUCH AS EXISTING PIPING, ELECTRICAL ITEMS, OR OTHERS PRIOR TO ANY CUTTING, DRILLING, OR SIMILAR OPERATION TO VERIFY THAT THE AREA OF WORK IS CLEAR OF COMPONENTS THAT COULD BE DAMAGED.
13. REFER TO CIVIL DRAWING C401 FOR POST INDICATOR VALVE LOCATION.

**1 FIRST FLOOR FIRE PROTECTION PLAN**

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

0 4' 8' 16'


a|r|c ARCHITECTS
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|---|---|---|
| | | |

CONTENTS:

**FIRST FLOOR FIRE PROTECTION PLAN**

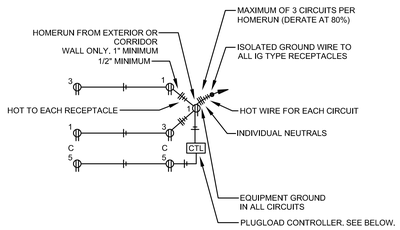
| | |
|---|---|
| SCALE: | 1/8" = 1'-0" |
| DRAWN: | KBT |
| CHECKED: | KHT |
| PROJECT NO: | 20-034 |

SHEET:

**FP100**

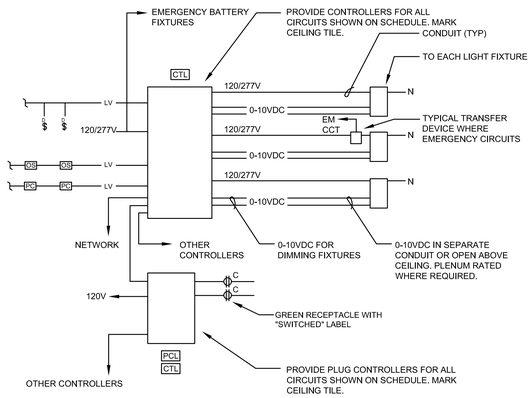
# LEGEND

- CONDUIT CONCEALED IN CEILING OR WALLS
- CONDUIT CONCEALED UNDERGROUND, UNDER FLOOR, OR IN WALL
- 3/4" CONDUIT. TICK MARKS INDICATE NUMBER OF #12 WIRES. NO TICK MARKS EQUALS 2#12. GROUND WIRE NOT SHOWN. PROVIDE GROUND WIRE IN ALL 120V AND ABOVE CIRCUITS.
- HOME RUN TO DESTINATION INDICATED. 3/4" MINIMUM UNLESS NOTED OTHERWISE.
- RECESSED LIGHT FIXTURE
- SURFACE OR PENDANT MOUNTED LIGHT FIXTURE
- SURFACE OR PENDANT MOUNTED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- SURFACE OR PENDANT LIGHT FIXTURE
- WALL MOUNTED FIXTURE
- FIXTURE WITH EMERGENCY DRIVER
- EXIT SIGN LIGHT FIXTURE TYPE X, EXCEPT AS NOTED
- XXX — XXX=LIGHTING FIXTURE TYPE DESIGNATOR, SEE LIGHT FIXTURE SCHEDULE
- EMERGENCY BATTERY LIGHT, TYPE X-1, EXCEPT AS NOTED
- LIGHT TRACK
- POLE LIGHT
- $ WALL SWITCH, 3-WAY
- DS $ DIGITAL SWITCH
- OS $ WALL SWITCH WITH INTEGRAL OCCUPANCY SENSOR
- OS OCCUPANCY SENSOR
- PC PHOTO CELL
- CTL DIGITAL LIGHTING CONTROLLER
- DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE ABOVE COUNTER
- DOUBLE DUPLEX RECEPTACLE
- GFI DUPLEX RECEPTACLE GFI TYPE
- WP WEATHERPROOF DUPLEX RECEPTACLE (GFI TYPE)
- M RECEPTACLE DUPLEX RECEPTACLE AT MONITOR HEIGHT (6'-0" A.F.F.)
- SPECIAL RECEPTACLE AS NOTED
- R RANGE OUTLET, NEMA 14-50R
- H HOOD OUTLET, CONNECT ALL LIGHTS
- MOTORIZED CONTROLLER
- MUSHROOM SWITCH
- PUSHBUTTON SWITCH
- A ADA DOOR ACTUATOR
- KS ADA DOOR ACTUATOR KEY SWITCH
- EQUIPMENT CONNECTION
- MOTOR CONNECTION
- DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- MANUAL MOTOR STARTER
- COMBINATION MAGNETIC MOTOR STARTER
- VFD VARIABLE FREQUENCY DRIVE
- J JUNCTION BOX
- F FIRE ALARM PULL STATION
- FIRE ALARM SPEAKER WITH ADA STROBE
- FIRE ALARM SPEAKER
- FIRE ALARM ADA STROBE
- F FIRE ALARM BELL
- S SMOKE DETECTOR
- S DUCT SMOKE DETECTOR
- SMOKE DAMPER CONNECTION
- SPRINKLER CONNECTION
- TV OUTLET
- SINGLE PORT DATA OUTLET
- 2-PORT DATA OUTLET
- 3-PORT DATA OUTLET
- 4-PORT DATA OUTLET
- WAP SINGLE PORT DATA OUTLET FOR WIRELESS ACCESS POINT
- V VIDEO SURVEILLANCE OUTLET AT CAMERA
- S PAGING SYSTEM CEILING MOUNTED SPEAKER
- S-H PAGING SYSTEM WALL MOUNTED SPEAKER
- CCTV CAMERA
- AV AV OUTLET
- RQ REQUEST TO EXIT
- CR CARD READER
- DS DOOR SWITCH
- MS MOTION SENSOR
- K SECURITY KEYPAD
- EL ELECTRIC LOCK
- CIRCUIT BREAKER
- SWITCH
- FUSED SWITCH
- FUSE
- TRANSFORMER
- GROUNDING PER CODES
- BUS TAP
- 208V PANEL
- T TRANSFORMER
- FOIC FURNISHED BY OWNER INSTALLED BY CONTRACTOR
- FOIO FURNISHED BY OWNER INSTALLED BY OWNER
- GFI GROUND FAULT CIRCUIT INTERRUPTER
- IG ISOLATED GROUND
- WP WEATHERPROOF
- A/B DETAIL INDICATOR WITH SHEET WHERE DRAWN INDICATED
- XXXX AVAILABLE FAULT CURRENT AS INDICATED
- 1 FLAG NOTE




## TYPICAL RECEPTACLE CIRCUITING DETAIL

SCALE: NA

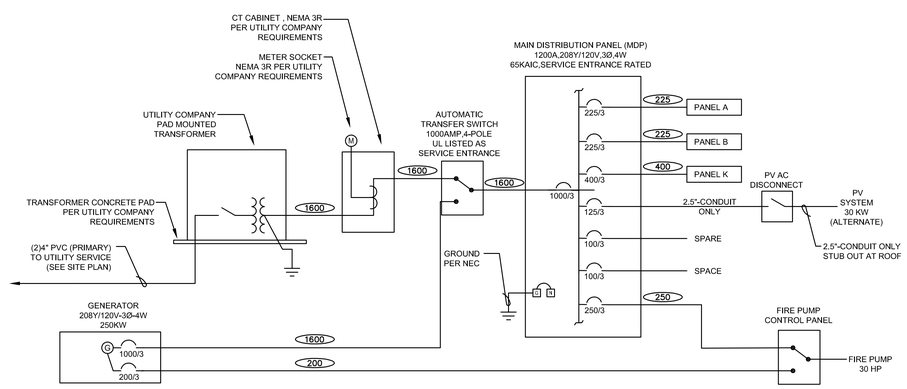



## TYPICAL LIGHTING CONTROL DETAIL

SCALE: NA

FEEDER SIZE CHART

| | COPPER – THWN EMT/ PVC | WIRES | GND | ALUMINUM – XHHW–COMPACT EMT/ PVC | WIRES | GND |
|---|---|---|---|---|---|---|
| 50 | | 1 | "–4#8 | | | –1#8 |
| 50G | | 1 | "–4#8 | | | –2#8 |
| 45T | | 1 | "–3#8 | | | –1#8 |
| 70 | 1.25 | "–4#4 | –1#8 | 1.25 | "–4#2 | –1#6 |
| 70T | 1.25 | "–3#4 | –1#6 | 1.25 | "–3#2 | –1#6 |
| 100 | 1.25 | "–4#2 | –1#6 | 2 | "–4#1/0 | –1#6 |
| 100G | 1.25 | "–4#2 | –2#6 | 2 | "–4#1/0 | –2#4 |
| 125 | 1.5 | "–4#1 | –1#6 | 2 | "–4#2/0 | –1#2 |
| 150 | 1.5 | "–4#1/0 | –1#4 | 2 | "–4#3/0 | –1#2 |
| 150G | 1.5 | "–4#1/0 | –2#4 | 2.5 | "–4#3/0 | –2#2 |
| 175 | | 2 | "–4#2/0 | –1#4 | 2.5 | "–4#4/0 | –1#1/0 |
| 175G | | 2 | "–4#2/0 | –2#4 | 2.5 | "–4#4/0 | –2#1/0 |
| 175T | | 2 | "–3#2/0 | –1#4 | 2.5 | "–3#4/0 | –1#1/0 |
| 200 | | 2 | "–4#3/0 | –1#2 | 2.5 | "–4#250 | –1#1/0 |
| 225 | 2.5 | "–4#4/0 | –1# | 3 | "–4#300 | –1#1/0 |
| 250 | 2.5 | "–4#250 | –1#2 | 3 | "–4#350 | –1#3/0 |
| 300 | | 3 | "–4#350 | –1#2 | 3 | "–4#500 | –1#3/0 |
| 400 | (2) | 2 | "–4#3/0 | –1#2/0 | (2) 2.5 | "–4#250 | –1#4/0 |
| 400G | (2) | 2 | "–4#3/0 | –2#2/0 | (2) 2.5 | "–4#250 | –2#4/0 |
| 600 | (2) | 3 | "–4#350 | –1#3/0 | (2) | 3 | "–4#500 | –1#250 |
| 600G | (2) | 3 | "–4#350 | –2#3/0 | (2) | 3 | "–4#500 | –2#250 |
| 800T | (2) | 3.5 | "–3#600 | –1#3/0 | (3) | 3 | "–3#400 | –1#250 |
| 1600 | (4) | 3.5 | "–4#600 | –1#4/0 | (5) | 4 | "–4#600 | –1#350 |
| 2500 | (6) | 3.5 | "–4#600 | –1#350 | (8) | 4 | "–4#600 | –1#600 |




1 **ONE LINE DIAGRAM**
NTS

# ABBREVIATIONS

| | |
|---|---|
| A | AMPERE |
| AC | ALTERNATING CURRENT |
| ADA | AMERICANS WITH DISABILITIES ACT |
| AF | AMPERE FRAME |
| AFF | ABOVE FINISH FLOOR |
| AHJ | AUTHORITY HAVING JURISDICTION |
| AIC | INTERRUPTING CAPACITY (AMPS) |
| AMP | AMPERE; AMPACITY |
| ANSI | AMERICANS NATIONAL STANDARDS INSTITUTE |
| ARCH | ARCHITECTURAL |
| AT | AMPERE TRIP |
| ATS | AUTOMATIC TRANSFER SWITCH |
| AWG | AMERICAN WIRE GAGE |
| BLDG | BUILDING |
| BSMT | BASEMENT |
| C | CABLE; CONDUIT, COIL |
| CC | VIDEO SURVEILLANCE |
| CB | CIRCUIT BREAKER |
| CKT,CCT | CIRCUIT CONDUIT AND WIRE |
| CLG | CEILING |
| CO | CONDUIT ONLY |
| COMM | COMMUNICATIONS |
| CONTR | CONTRACTOR |
| CPT | CONTROL POWER TRANSFORMER |
| CR | CONTROL RELAY |
| CS | CONTROL SWITCH |
| CSI | CONSTRUCTION SPECIFICATIONS INSTITUTE |
| CT | CURRENT TRANSFORMER |
| CTL | CONTROL |
| CU | COPPER |
| D | DATA |
| DC | DIRECT CURRENT |
| DET | DETAIL |
| DISC | DISCONNECT |
| DN | DOWN |
| DWG | DRAWING |
| EA | EACH |
| EGC | EQUIPMENT GND CONDUCTOR |
| EIA | ELECTRONICS INDUSTRIES ALLIANCE |
| EM | EMERGENCY SECONDARY |
| EMT | ELECTRICAL METALLIC TUBING |
| EWC | ELECTRIC WATER COOLER |
| EL | ELEVATION |
| ELEC,ELECT | ELECTRICAL |
| ELEV | ELEVATOR |
| EMERG | EMERGENCY |
| EOL | END OF LINE DEVICE |
| ES | EMERGENCY SECONDARY |
| ESS | ELECTRIC SAFETY AND SECURITY |
| EXIST,EX | EXISTING |
| EXP | EXPOSED |
| FA | FIRE ALARM |
| FAP | FIRE ALARM PANEL |
| FDR | FEEDER |
| FIO | FURNISHED AND INSTALLED BY OWNER |
| FIXT | FIXTURE |
| FLEX | FLEXIBLE |
| FLR | FLOOR |
| FLUOR | FLUORESCENT |
| FOIC | FURNISHED BY OWNER & INSTALLED BY CONTRACTOR |
| FT | FEET; FOOT |
| FURNISH | PURCHASE AND DELIVER TO JOBSITE |
| FUT | FUTURE |
| GALV | GALVANIZED |
| GEC | GROUND ELECTRODE CONDUCTOR |
| GEN | GENERATOR |
| GFI | GROUND FAULT INTERRUPTING |
| GND | GROUND |
| HH | HANDHOLE |
| HID | HIGH INTENSITY DISCHARGE |
| HOA | HAND/OFF/AUTOMATIC (SELECTOR SWITCH) |
| HP | HORSEPOWER |
| HPS | HIGH PRESSURE SODIUM |
| HZ | HERTZ (CYCLES PER SEC) |
| IAC | INTERLOCKED ARMORED CABLE |
| IBC | INTERNATIONAL BUILDING CODE |
| IFC | INTERNATIONAL FIRE CODE |
| IMC | INTERNATIONAL MECHANICAL CODE |
| ID | INSIDE DIAMETER |
| IDF | INTERMEDIATE DISTRIBUTION FRAME |
| IEEE | INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS |
| IN | INCH |
| INSTALL | ENTER PERMANENTLY INTO PROJECT |
| J-BOX | JUNCTION BOX |
| KCM | THOUSAND CIRCULAR MILS |
| KVA | KILOVOLTAMPERES |
| KW | KILOWATT(S) |
| LAN | LOCAL AREA NETWORK |
| LT | LIGHT |
| LTG | LIGHTING |
| MCB | MAIN CIRCUIT BREAKER |
| MCC | MOTOR CONTROL CENTER |
| MCM | THOUSAND CIRCULAR MILS |
| MDF | MAIN DISTRIBUTION FRAME |
| MECH | MECHANICAL |
| MH | METAL HALIDE |
| MLO | MAIN LUGS ONLY |
| MT | MAIN TELEPHONE |
| MTD | MOUNTED |
| MTG | MOUNTING |
| MTS | MANUAL TRANSFER SWITCH |
| NC | NORMALLY CLOSED |
| NEC | NATIONAL ELECTRIC CODE |
| NEUT | NEUTRAL |
| NFPA | NATIONAL FIRE PROTECTION AGENCY |
| NIC | NOT IN CONTRACT |
| NO | NUMBER; NORMALLY OPEN |
| NTS | NOT TO SCALE |
| OD | OUTSIDE DIAMETER |
| P | PRIMARY |
| PA | PUBLIC ADDRESS |
| PC | PHOTO-ELECTRIC CELL; PULL CHAIN; PERSONAL COMPUTER |
| PF | POWER FACTOR |
| PH | PHASE |
| PNL | PANEL; PANELBOARD |
| PROVIDE | FURNISH AND INSTALL |
| PSI | POUNDS PER SQUARE INCH |
| PT | POTENTIAL TRANSFORMER |
| PTZ | PAN TILT ZOOM |
| PWR | POWER |
| RCW | REGULATORY CODE OF THE STATE OF WASHINGTON |
| R,RECP,REC,RECEPT | RECEPTACLE |
| REFER | REFRIGERATION |
| REV | REVISED; REVISION |
| RI | ROUGH IN |
| RM | ROOM |
| SPEC | SPECIFICATION |
| SS | STAINLESS STEEL |
| STP | SHIELDED TWISTED PAIR |
| SW | SWITCH |
| SWBD | SWITCHBOARD |
| SWGR | SWITCHGEAR |
| T | TELEPHONE, TELECOMMUNICATIONS |
| TC | TERMINAL CABINET |
| TEMP | TEMPORARY; TEMPERATURE |
| TIA | TELECOMMUNICATIONS INDUSTRY ASSOCIATIONS |
| TRANS | TRANSFORMER |
| TP | TWISTED PAIR |
| TYP | TYPICAL |
| UH | UNIT HEATER |
| UL | UNDERWRITERS LABORATORY |
| UTP | UNSHIELDED TWISTED PAIR |
| UV | UNIT VENTILATOR |
| V | VOLT(S) |
| VA | VOLT-AMPERES |
| W | WATT(S) |
| W/ | WITH |
| W/O | WITHOUT |
| WAC | WASHINGTON ADMINISTRATIVE CODE |
| WBC | WASHINGTON STATE BUILDING CODE |
| WEC | WASHINGTON ENERGY CODE |
| WP | WEATHER PROOF |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# The Chehalis Tribe Chehalis Elder Center

NIEDERMAN RD
OAKVILLE, WA 98568

## BID DOCUMENTS

ISSUE DATE: April 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

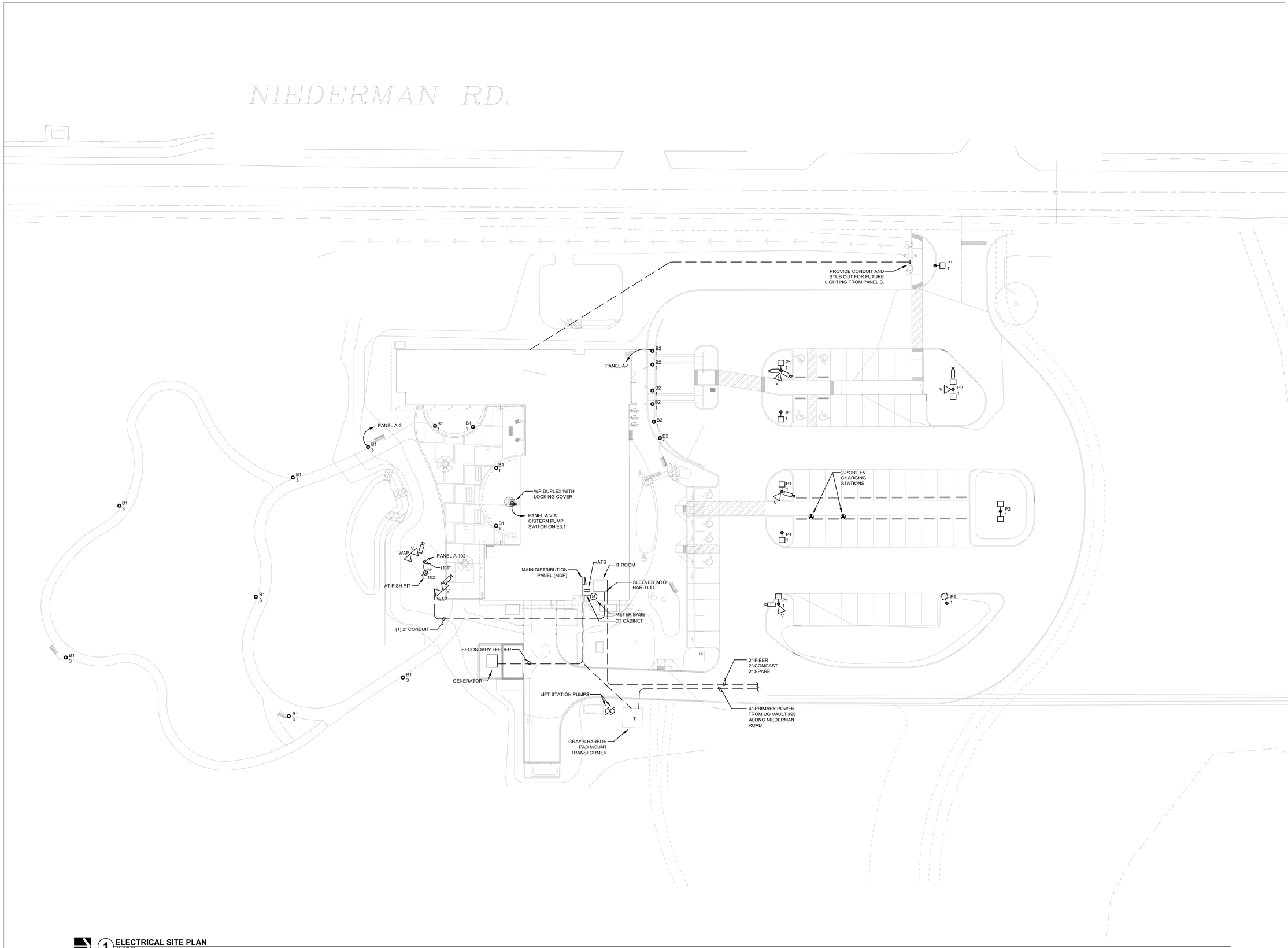
CONTENTS:

## LEGEND, ONE LINE DIAGRAM, DETAILS, & SCHEDULES

| | |
|---|---|
| SCALE: | 1/8" = 1'-0" |
| DRAWN: | AS/BO |
| CHECKED: | KW |
| PROJECT NO: | 0000000.00 |

SHEET:

**E1.0**




1 **ELECTRICAL SITE PLAN**
1"=20'-0"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# Chehalis Elder Center

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THE CHEHALIS TRIBE

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| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

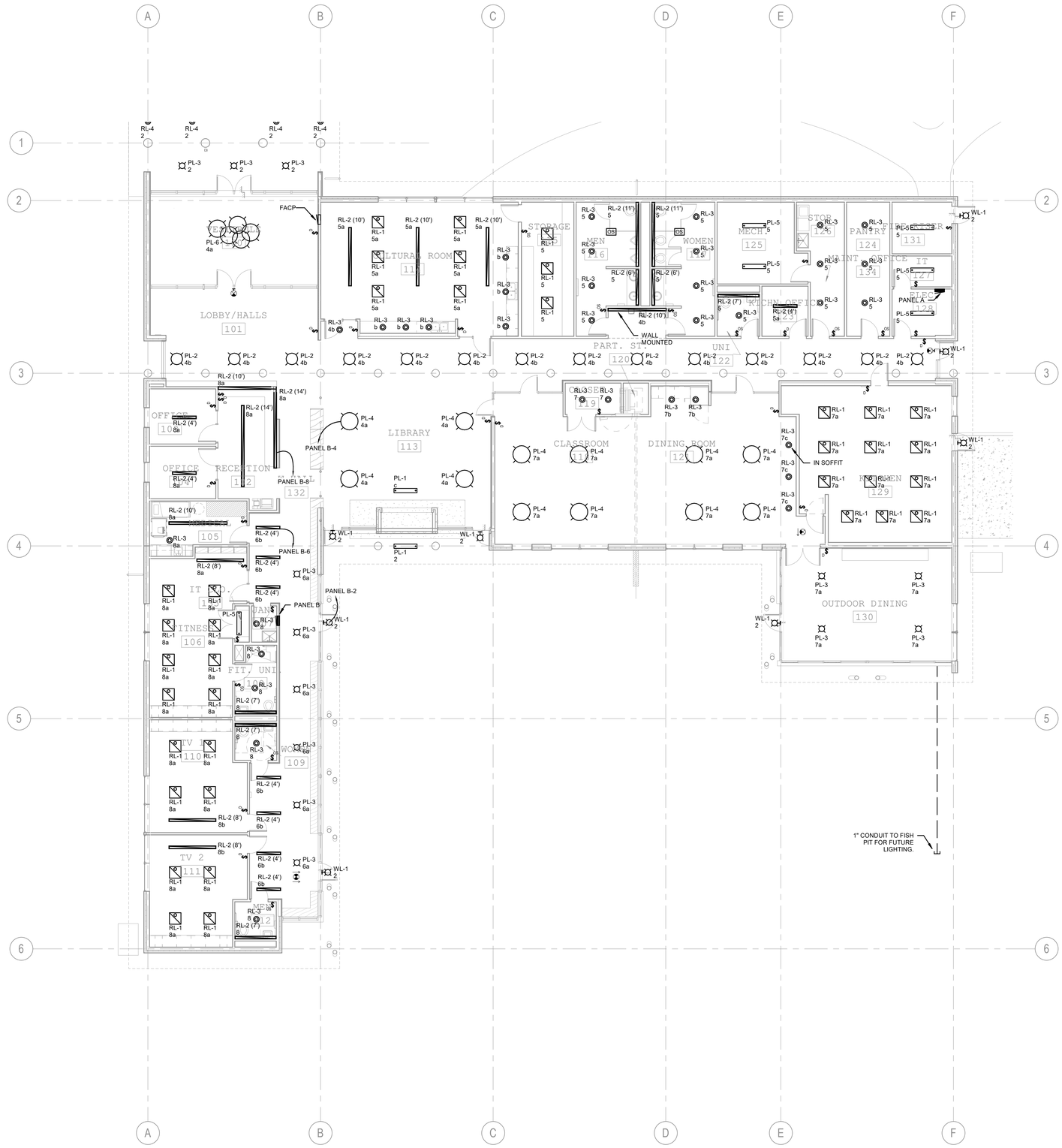
CONTENTS:

**ELECTRICAL SITE PLAN**

| | |
|---|---|
| SCALE: | 1/8" = 1'-0" |
| DRAWN: | AS/BO |
| CHECKED: | KW |
| PROJECT NO: | 0000000.00 |

SHEET:

**E1.1**




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

NORTH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| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

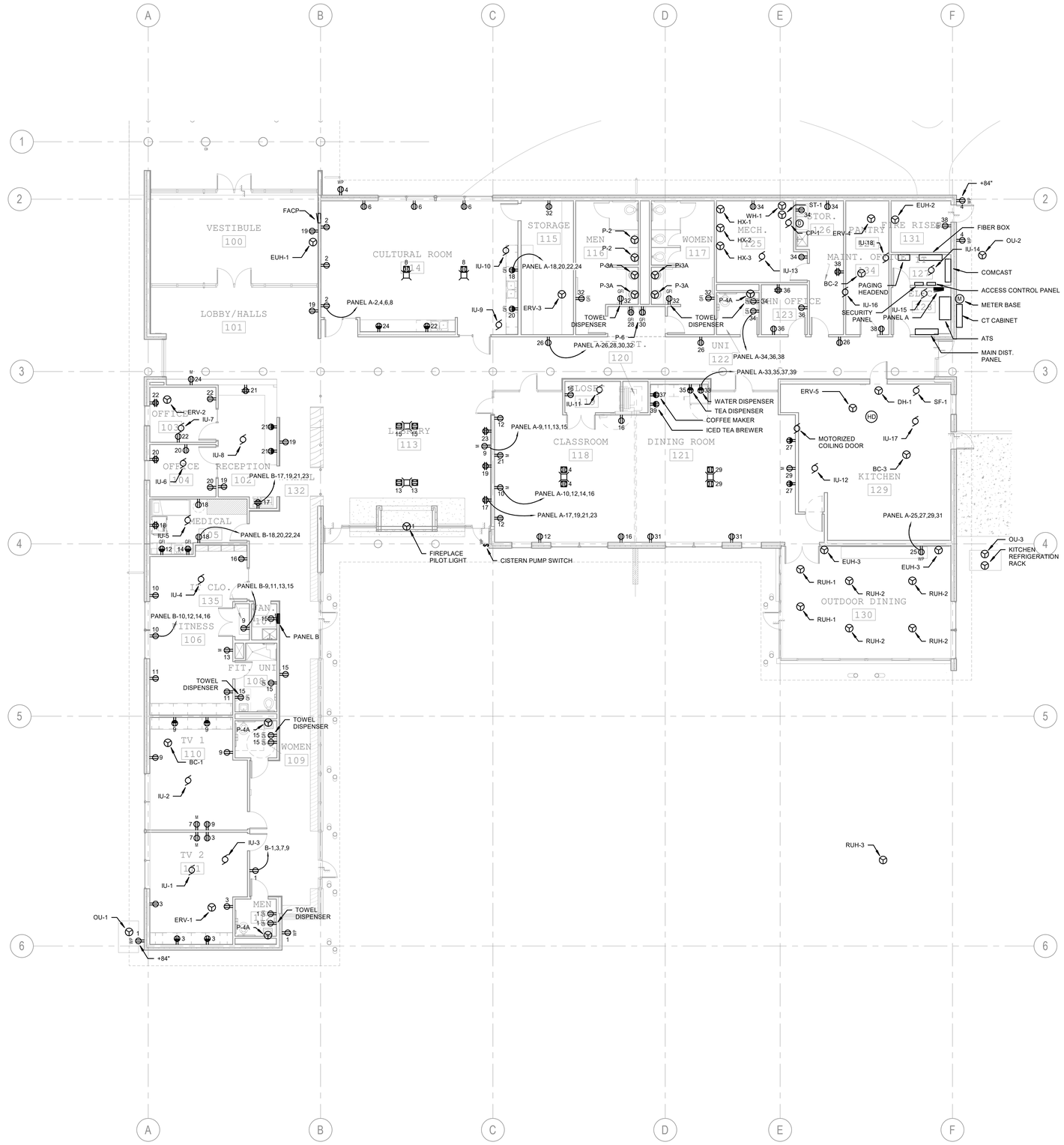
CONTENTS:

**1ST FLOOR PLAN - LIGHTING**

| | |
|---|---|
| SCALE: | 1/8" = 1'-0" |
| DRAWN: | AS/BO |
| CHECKED: | KW |
| PROJECT NO: | 0000000.00 |

SHEET:

**E2.1**




1 FLOOR PLAN - POWER

1/8" = 1'-0"

NORTH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ISSUE DATE: April 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

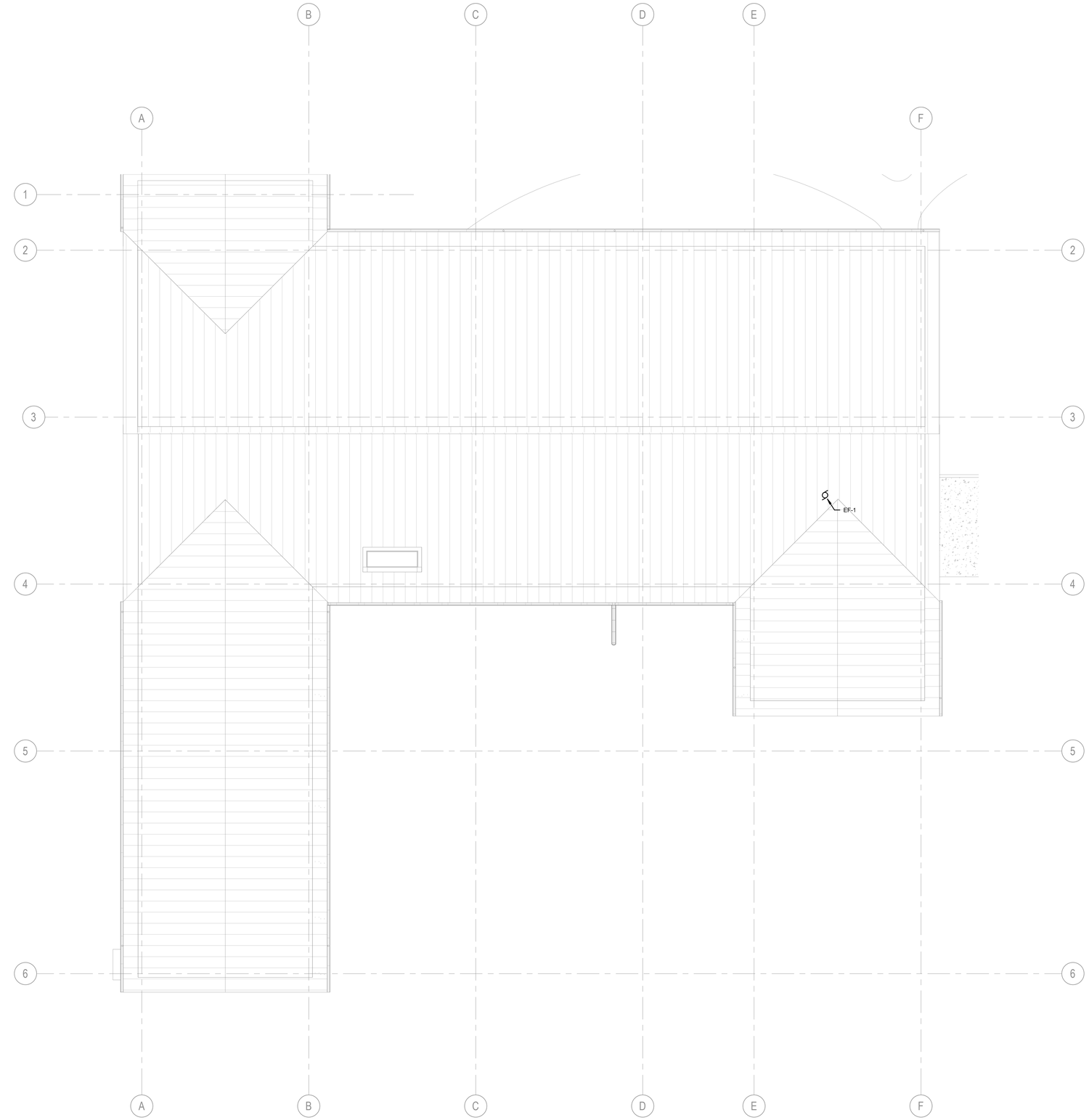
CONTENTS:

**1ST FLOOR PLAN - POWER**

| | |
|---|---|
| SCALE: | 1/8" = 1'-0" |
| DRAWN: | Author |
| CHECKED: | Checker |
| PROJECT NO: | 0000000.00 |

SHEET:

**E3.1**




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

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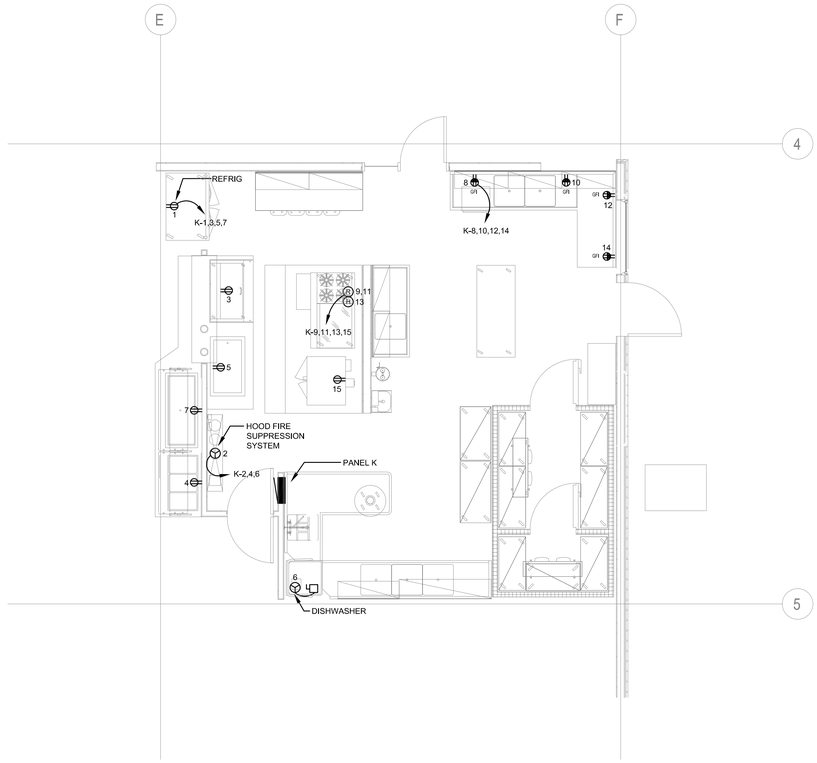
**ROOF PLAN - POWER**

| | |
|---|---|
| SCALE: | 1/8" = 1'-0" |
| DRAWN: | Author |
| CHECKED: | Checker |
| PROJECT NO: | 0000000.00 |

SHEET:

**E3.2**




1 **KITCHEN PLAN - POWER**
1/4" = 1'-0"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|---|---|---|
| | | |

CONTENTS:

**KITCHEN PLAN - POWER**

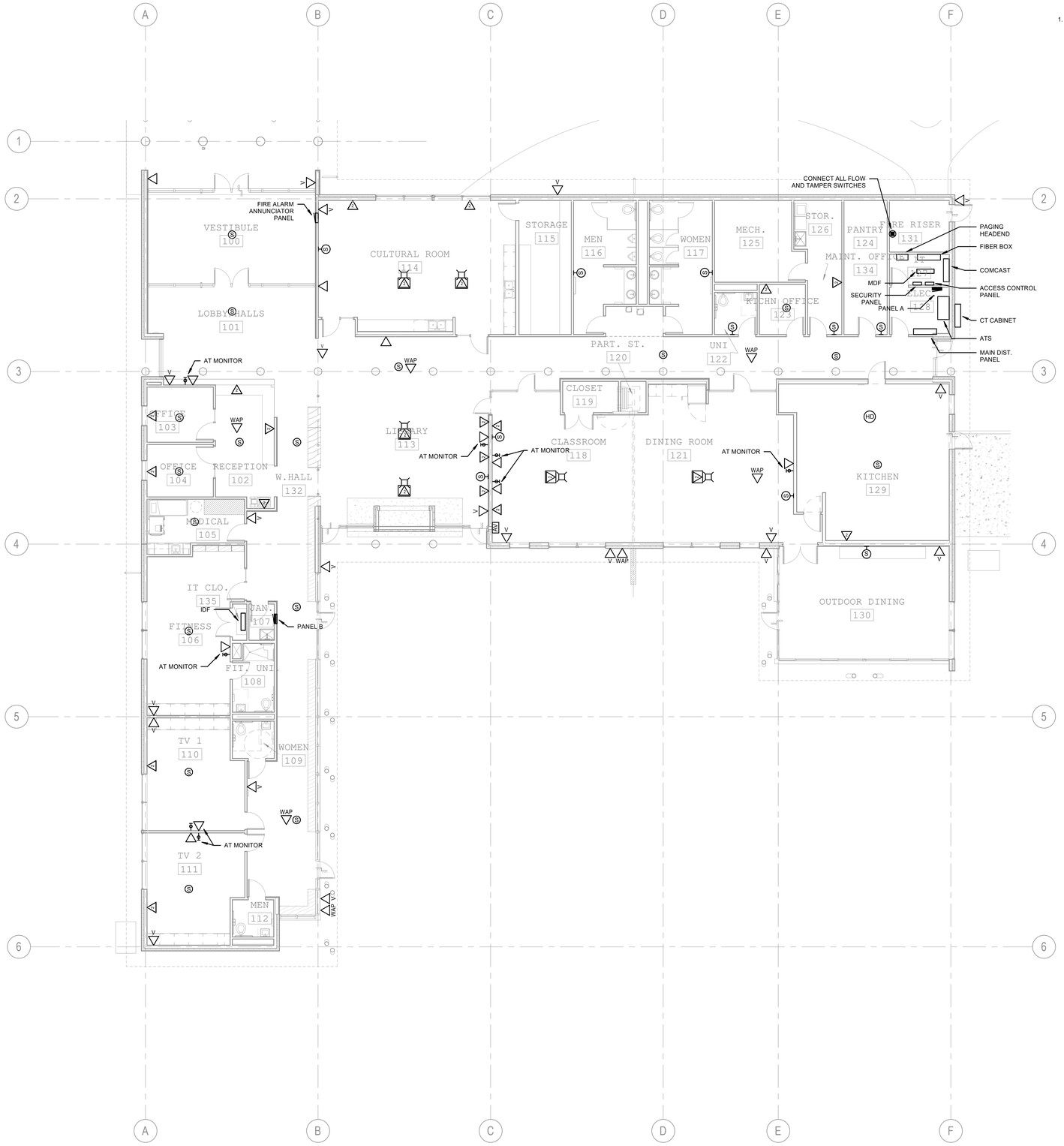
| | |
|---|---|
| SCALE: | **1/8" = 1'-0"** |
| DRAWN: | **AS/BO** |
| CHECKED: | **KW** |
| PROJECT NO: | 0000000.00 |

SHEET:

**E3.3**

## SHEET NOTES:

1. PROVIDE CIRCUITRY FROM PAGING HEADEAND TO SPEAKERS AS REQUIRED BY MANUFACTURER. ROUTE IN CONDUIT WHERE IN WALLS AND ABOVE NON-ACCESSIBLE CEILINGS. IN OPEN CEILING AREAS, ROUTE IN CONDUIT ABOVE CEILING IN RIGID INSULATION. COORDINATE ROUTE WITH INSTALLER OF RIGID INSULATION.




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

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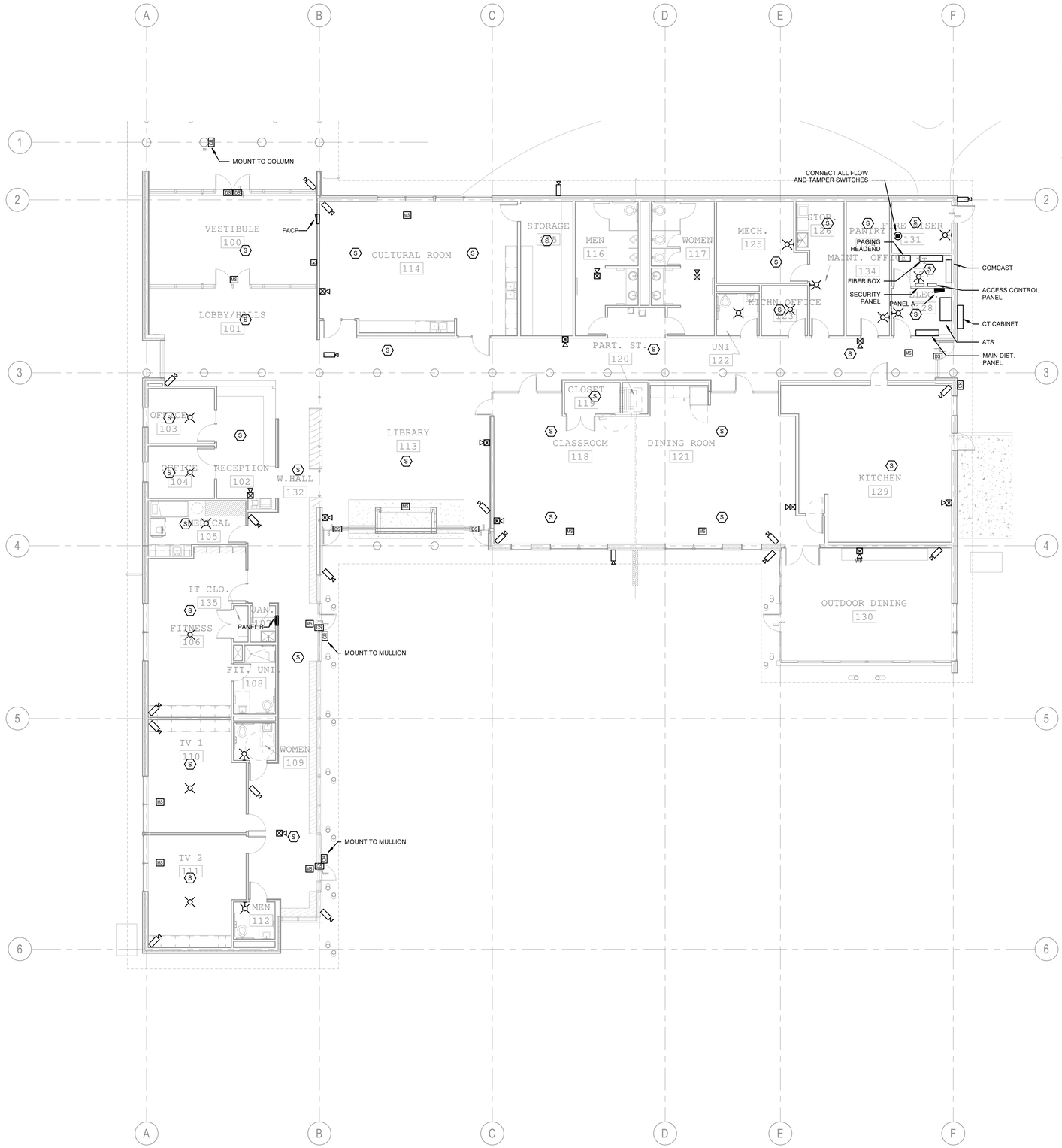
**FLOOR PLAN - COMM**

| | |
|---|---|
| SCALE: | 1/8" = 1'-0" |
| DRAWN: | Author |
| CHECKED: | Checker |
| PROJECT NO: | 0000000.00 |

SHEET:

**E4.1**




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

## SHEET NOTES:

1. PROVIDE CONDUIT ONLY (1.25") WITH PULL STRING FROM CCTV CAMERAS TO EITHER IT ROOM OR IT CLOSET. FOLLOW SAMPLE PARAMETERS AS DEFINED FOR DATA OUTLETS BY COMM CONDUIT RISER.
2. PROVIDE CIRCUITRY FROM ACCESS CONTROL DEVICES TO ACCESS CONTROL PANEL AS REQUIRED BY MANUFACTURER. ROUTE IN CONDUIT WHERE IN WALLS AND ABOVE NON-ACCESSIBLE CEILINGS. IN OPEN CEILING AREAS, ROUTE IN CONDUIT ABOVE CEILING IN RIGID INSULATION. COORDINATE ROUTE WITH INSTALLER OF RIGID INSULATION.
3. PROVIDE CIRCUITRY FROM SECURITY SYSTEM DEVICES TO SECURITY PANEL AS REQUIRED BY MANUFACTURER. ROUTE IN CONDUIT WHERE IN WALLS AND ABOVE NON-ACCESSIBLE CEILINGS. IN OPEN CEILING AREAS, ROUTE IN CONDUIT ABOVE CEILING IN RIGID INSULATION. COORDINATE ROUTES WITH INSTALLER OF RIGID INSULATION.
4. PROVIDE CIRCUITRY FROM FACP TO ALL FIRE SYSTEM DEVICES AS REQUIRED BY MANUFACTURER. ROUTE IN CONDUIT WHERE IN WALLS AND ABOVE NON-ACCESSIBLE CEILINGS. IN OPEN CEILING AREAS, ROUTE IN CONDUIT ABOVE CEILING IN RIGID INSULATION. COORDINATE ROUTES WITH INSTALLER OF RIGID INSULATION.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CONTENTS:
**FLOOR PLAN - ESS**

| | |
|---|---|
| SCALE: | 1/8" = 1'-0" |
| DRAWN: | Author |
| CHECKED: | Checker |
| PROJECT NO: | 0000000.00 |

SHEET:
**E5.1**

## LIGHTING CONTROL SCHEDULE: CHEHALIS ELDER CENTER

| CONTROLLER | ROOM | PANEL | CKT | | INTERFACE | CONTROL DEVICES | DESCRIPTION |
|---|---|---|---|---|---|---|---|
| **100** | **VESTIBULE** | TBD | # | a | 0-10VDC | KEYED SWITCH | GENERAL |
| *KEYED* | | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | | *SWITCH LABEL:* | | |
| | 1) a | ON/OFF | | | ON/OFF | | |
| **101** | **LOBBY/ HALLS** | TBD | # | a | 0-10VDC | KEYED SWITCH, OCCUPANCY SENSOR, PHOTOCELL | DAYLIGHT ZONE 1 |
| | | TBD | # | b | 0-10VDC | KEYED SWITCH, OCCUPANCY SENSOR, | GENERAL |
| *KEYED* | | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | | *SWITCH LABEL:* | | |
| | 1) a,b | ON/OFF | | | ON/OFF | | |
| **102** | **RECEPTION** | TBD | # | a | 0-10VDC | DIG SWITCH | GENERAL |
| *3 BUTTON* | | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | | *SWITCH LABEL:* | | |
| | 1) a | ON/OFF | | | ON/OFF | | |
| | 2) a | DIM UP | | | RAISE | | |
| | 3) a | DIM DOWN | | | LOWER | | |
| **103** | **OFFICE** | TBD | # | a | 0-10VDC | DIG SWITCH, VACANCY SENSOR | GENERAL |
| *3 BUTTON* | | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | | *SWITCH LABEL:* | | |
| | 1) a | ON/OFF | | | ON/OFF | | |
| | 2) a | DIM UP | | | RAISE | | |
| | 3) a | DIM DOWN | | | LOWER | | |
| **104** | **OFFICE** | TBD | # | a | 0-10VDC | DIG SWITCH, VACANCY SENSOR, PHOTOCELL | DAYLIGHT ZONE 1 |
| *3 BUTTON* | | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | | *SWITCH LABEL:* | | |
| | 1) a | ON/OFF | | | ON/OFF | | |
| | 2) a | DIM UP | | | RAISE | | |
| | 3) a | DIM DOWN | | | LOWER | | |
| **105** | **MEDICAL** | TBD | # | a | 0-10VDC | DIG SWITCH, VACANCY SENSOR | GENERAL |
| *3 BUTTON* | | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | | *SWITCH LABEL:* | | |
| | 1) a | ON/OFF | | | ON/OFF | | |
| | 2) a | DIM UP | | | RAISE | | |
| | 3) a | DIM DOWN | | | LOWER | | |
| **106** | **FITNESS** | TBD | # | a | 0-10VDC | DIG SWITCH, VACANCY SENSOR, PHOTOCELL | DAYLIGHT ZONE 1 |
| | | | # | b | 0-10VDC | DIG SWITCH, VACANCY SENSOR, | GENERAL |
| *3 BUTTON* | | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | | *SWITCH LABEL:* | | |
| | 1) a,b | ON/OFF | | | ON/OFF | | |
| | 2) a,b | DIM UP | | | RAISE | | |
| | 3) a,b | DIM DOWN | | | LOWER | | |
| **110** | **TV 1** | TBD | # | a | 0-10VDC | DIG SWITCH, VACANCY SENSOR, PHOTOCELL | DAYLIGHT ZONE 1 |
| | | | # | b | 0-10VDC | DIG SWITCH, VACANCY SENSOR, | GENERAL |
| *3 BUTTON* | | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | | *SWITCH LABEL:* | | |
| | 1) a,b | ON/OFF | | | ON/OFF | | |
| | 2) a,b | DIM UP | | | RAISE | | |
| | 3) a,b | DIM DOWN | | | LOWER | | |
| **111** | **TV 2** | TBD | # | a | 0-10VDC | DIG SWITCH, VACANCY SENSOR, PHOTOCELL | DAYLIGHT ZONE 1 |
| | | | # | b | 0-10VDC | DIG SWITCH, VACANCY SENSOR, | GENERAL |
| *3 BUTTON* | | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | | *SWITCH LABEL:* | | |
| | 1) a,b | ON/OFF | | | ON/OFF | | |
| | 2) a,b | DIM UP | | | RAISE | | |
| | 3) a,b | DIM DOWN | | | LOWER | | |
| **113** | **LIBRARY** | TBD | # | a | 0-10VDC | DIG SWITCH, VACANCY SENSOR, PHOTOCELL | DAYLIGHT ZONE 1 |
| | | | # | b | 0-10VDC | DIG SWITCH, VACANCY SENSOR, PHOTOCELL | DAYLIGHT ZONE 2 |
| | | | # | c | 0-10VDC | DIG SWITCH, VACANCY SENSOR, | GENERAL |
| *3 BUTTON* | | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | | *SWITCH LABEL:* | | |
| | 1) a,b,c | ON/OFF | | | ON/OFF | | |
| | 2) a,b,c | DIM UP | | | RAISE | | |
| | 3) a,b,c | DIM DOWN | | | LOWER | | |
| **114** | **CULTURAL ROOM** | TBD | # | a | 0-10VDC | DIG SWITCH, VACANCY SENSOR, PHOTOCELL | DAYLIGHT ZONE 1 |
| | | | # | b | 0-10VDC | DIG SWITCH, VACANCY SENSOR, PHOTOCELL | DAYLIGHT ZONE 2 |
| | | | # | c | 0-10VDC | DIG SWITCH, VACANCY SENSOR, | GENERAL |
| *3 BUTTON* | | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | | *SWITCH LABEL:* | | |
| | 1) a,b,c | ON/OFF | | | ON/OFF | | |
| | 2) a,b,c | DIM UP | | | RAISE | | |
| | 3) a,b,c | DIM DOWN | | | LOWER | | |
| **118** | **CLASSROOM** | TBD | # | a | 0-10VDC | DIG SWITCH, VACANCY SENSOR, PHOTOCELL | DAYLIGHT ZONE 1 |
| | | | # | b | 0-10VDC | DIG SWITCH, VACANCY SENSOR, PHOTOCELL | DAYLIGHT ZONE 2 |
| | | | # | c | 0-10VDC | DIG SWITCH, VACANCY SENSOR, | FRONT |
| | | | # | d | 0-10VDC | DIG SWITCH, VACANCY SENSOR, | GENERAL |
| *3 BUTTON* | | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | | *SWITCH LABEL:* | | |
| | 1) a,b,c,d | ON/OFF | | | ON/OFF | | |
| | 2) a,b,c,d | DIM UP | | | RAISE | | |
| | 3) a,b,c,d | DIM DOWN | | | LOWER | | |
| **121** | **DINING ROOM** | TBD | # | a | 0-10VDC | DIG SWITCH, VACANCY SENSOR, PHOTOCELL | DAYLIGHT ZONE 1 |
| | | | # | b | 0-10VDC | DIG SWITCH, VACANCY SENSOR, PHOTOCELL | DAYLIGHT ZONE 2 |
| | | | # | c | 0-10VDC | DIG SWITCH, VACANCY SENSOR, | GENERAL |
| *3 BUTTON* | | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | | *SWITCH LABEL:* | | |
| | 1) a,b,c | ON/OFF | | | ON/OFF | | |
| | 2) a,b,c | DIM UP | | | RAISE | | |
| | 3) a,b,c | DIM DOWN | | | LOWER | | |
| **123** | **KITCHEN OFFICE** | TBD | # | a | 0-10VDC | DIG SWITCH, VACANCY SENSOR | GENERAL |
| *3 BUTTON* | | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | | *SWITCH LABEL:* | | |
| | 1) a | ON/OFF | | | ON/OFF | | |
| | 2) a | DIM UP | | | RAISE | | |
| | 3) a | DIM DOWN | | | LOWER | | |
| **124** | **BUILDING MAINTENANCE** | TBD | # | a | 0-10VDC | DIG SWITCH, VACANCY SENSOR | GENERAL |
| *3 BUTTON* | | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | | *SWITCH LABEL:* | | |
| | 1) a | ON/OFF | | | ON/OFF | | |
| | 2) a | DIM UP | | | RAISE | | |
| | 3) a | DIM DOWN | | | LOWER | | |
| **129** | **KITCHEN** | TBD | # | a | 0-10VDC | DIG SWITCH, VACANCY SENSOR | GENERAL |
| *3 BUTTON* | | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | | *SWITCH LABEL:* | | |
| | 1) a | ON/OFF | | | ON/OFF | | |
| | 2) a | DIM UP | | | RAISE | | |
| | 3) a | DIM DOWN | | | LOWER | | |
| **130** | **OUTDOOR DINING** | TBD | # | a | 0-10VDC | DIG SWITCH, VACANCY SENSOR | GENERAL |
| *3 BUTTON* | | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | | *SWITCH LABEL:* | | |
| | 1) a | ON/OFF | | | ON/OFF | | |
| | 2) a | DIM UP | | | RAISE | | |
| | 3) a | DIM DOWN | | | LOWER | | |
| **132** | **EAST HALL** | TBD | # | a | 0-10VDC | KEYED SWITCH | GENERAL |
| *KEYED* | | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | | *SWITCH LABEL:* | | |
| | 1) a | ON/OFF | | | ON/OFF | | |

## MECHANICAL EQUIPMENT CONNECTION SCHEDULE

| UNIT | LOCATION | VOLTAGE/PHASE | HP | KVA/KW | FLA | MCA | MOCP | DISCONNECT/STARTER COMPONENT | CONDUIT AND WIRE SIZE | PANEL | CIRCUIT # |
|---|---|---|---|---|---|---|---|---|---|---|---|
| *AIRE TO AIR HEAT RECOVERY UNIT SCHEDULE* | | | | | | | | | | | |
| ERV-1 | | 208/1 | | 0.65 | | 3.1 | 15 | DISCONNECT | 1/2"-3#12 | B | 23,25 |
| ERV-2 | | 208/1 | | 0.43 | | 2.05 | 15 | DISCONNECT | 1/2"-3#12 | B | 27,29 |
| ERV-3 | | 208/1 | | 0.75 | | 3.6 | 15 | DISCONNECT | 1/2"-3#12 | A | 41,43 |
| ERV-4 | | 208/1 | | 0.75 | | 3.6 | 15 | DISCONNECT | 1/2"-3#12 | A | 41,43 |
| ERV-5 | | 208/1 | | 1.33 | | 6.4 | 15 | DISCONNECT | 1/2"-3#12 | A | 45,47 |
| *VRF INDOOR FAN COIL UNIT SCHEDULE* | | | | | | | | | | | |
| IU-1 | | 208/1 | | 0.06 | | 0.29 | 15 | DISCONNECT | 1/2"-3#12 | B | 26,28 |
| IU-2 | | 208/1 | | 0.06 | | 0.29 | 15 | DISCONNECT | 1/2"-3#12 | B | 26,28 |
| IU-3 | | 208/1 | | 0.73 | | 3.51 | 15 | DISCONNECT | 1/2"-3#12 | B | 26,28 |
| IU-4 | | 208/1 | | 0.3 | | 1.45 | 15 | DISCONNECT | 1/2"-3#12 | B | 30,32 |
| IU-5 | | 208/1 | | 0.05 | | 0.24 | 15 | DISCONNECT | 1/2"-3#12 | B | 30,32 |
| IU-6 | | 208/1 | | 0.05 | | 0.24 | 15 | DISCONNECT | 1/2"-3#12 | B | 30,32 |
| IU-7 | | 208/1 | | 0.05 | | 0.24 | 15 | DISCONNECT | 1/2"-3#12 | B | 34,36 |
| IU-8 | | 208/1 | | 0.57 | | 2.73 | 15 | DISCONNECT | 1/2"-3#12 | B | 34,36 |
| IU-9 | | 208/1 | | 0.87 | | 4.16 | 15 | DISCONNECT | 1/2"-3#12 | A | 40,42 |
| IU-10 | | 208/1 | | 0.3 | | 1.45 | 15 | DISCONNECT | 1/2"-3#12 | A | 40,42 |
| IU-11 | | 208/1 | | 0.44 | | 2.11 | 15 | DISCONNECT | 1/2"-3#12 | A | 40,42 |
| IU-12 | | 208/1 | | 1.6 | | 7.7 | 15 | DISCONNECT | 1/2"-3#12 | A | 44,46 |
| IU-13 | | 208/1 | | 0.87 | | 4.16 | 15 | DISCONNECT | 1/2"-3#12 | A | 48,50 |
| IU-14 | | 208/1 | | 0.08 | | 0.38 | 15 | DISCONNECT | 1/2"-3#12 | A | 48,50 |
| IU-15 | | 208/1 | | 0.05 | | 0.24 | 15 | DISCONNECT | 1/2"-3#12 | A | 48,50 |
| IU-16 | | 208/1 | | 0.22 | | 1.05 | 15 | DISCONNECT | 1/2"-3#12 | A | 52,54 |
| IU-17 | | 208/1 | | 1.6 | | 7.7 | 15 | DISCONNECT | 1/2"-3#12 | A | 56,58 |
| IU-18 | | 208/1 | | 0.05 | | 0.24 | 15 | DISCONNECT | 1/2"-3#12 | A | 52,54 |
| *VRF HEAT EXCHANGER UNIT SCHEDULE* | | | | | | | | | | | |
| HX-1 | | 208/1 | | 1.12 | | 0.09 | 15 | DISCONNECT | 1/2"-3#12 | A | 49,51 |
| HX-2 | | 208/1 | | 1.12 | | 0.09 | 15 | DISCONNECT | 1/2"-3#12 | A | 49,51 |
| HX-3 | | 208/1 | | 1.12 | | 0.09 | 15 | DISCONNECT | 1/2"-3#12 | A | 49,51 |
| *RADIANT UNIT HEATER SCHEDULE* | | | | | | | | | | | |
| RUH-1 | | 240/1 | | 1.99 | | 8.3 | | DISCONNECT | 1/2"-2#10 & 1#12 GND | A | SEE PANEL SCHED |
| RUH-2 | | 240/1 | | 6.00 | | 25 | | DISCONNECT | 1/2"-2#10 & 1#12 GND | A | SEE PANEL SCHED |
| *VRF OUTDOOR UNIT SCHEDULE* | | | | | | | | | | | |
| OU-1 | | 208/3 | | 11.17 | | 31.0 | 45.0 | DISCONNECT | 3/4"-3#8 & 1#10 GND | B | 31,33,35 |
| OU-2 | | 208/3 | | 17.65 | | 49.0 | 60.0 | DISCONNECT | 1"-3#6 & 1#8 GND | A | 60,62,64 |
| OU-3 | | 208/3 | | 20.53 | | 57.0 | 90.0 | DISCONNECT | 1"-3#4 & 1#6 GND | A | 66,68,70 |
| *VRF BRANCH CIRCUIT CONTROLLER SCHEDULE* | | | | | | | | | | | |
| BC-1 | | 208/1 | | 0.17 | | 0.83 | 15 | DISCONNECT | 1/2"-3#12 | B | 37,39 |
| BC-2 | | 208/1 | | 0.33 | | 1.57 | 15 | DISCONNECT | 1/2"-3#12 | A | 72,74 |
| BC-3 | | 208/1 | | 0.17 | | 0.83 | 15 | DISCONNECT | 1/2"-3#12 | A | 72,74 |
| *UNIT HEATER SCHEDULE* | | | | | | | | | | | |
| EUH-1 | | 208/1 | | 4.16 | | 20 | | DISCONNECT | 1/2"-2#10 & 1#12 GND | B | 38,40 |
| EUH-2 | | 208/1 | | 2.60 | | 12.5 | | DISCONNECT | 1/2"-2#10 & 1#12 GND | A | 77,79 |
| EUH-3 | | 208/1 | | 4.78 | | 23 | | DISCONNECT | 1/2"-2#10 & 1#12 GND | A | SEE PANEL SCHED |
| *ELECTRIC DUCT HEATER SCHEDULE* | | | | | | | | | | | |
| DH-1 | | 208/3 | | 10.00 | | | | DISCONNECT | 3/4"-3#8 & 1#10 GND | A | 76,78,80 |
| *FAN SCHEDULE* | | | | | | | | | | | |
| EF-1 | | 115/1 | 0.75 | 1.66 | | 8.8 | | DISCONNECT | 1/2"-2#10 & 1#12 GND | A | 82 |
| SF-1 | | 115/1 | 0.75 | 1.66 | | | | DISCONNECT | 1/2"-2#10 & 1#12 GND | A | 84 |
| *PLUMBING FIXTURE SCHEDULE* | | | | | | | | | | | |
| P-2 | | 120/1 | | | | | | DISCONNECT | 1/2"-3#12 | | SEE PANEL SCHED |
| P-3A | | 120/1 | | | | | | DISCONNECT | 1/2"-3#12 | | SEE PANEL SCHED |
| P-4A | | 120/1 | | | | | | DISCONNECT | 1/2"-3#12 | | SEE PANEL SCHED |
| P-6 | | 120/1 | | | | | | DISCONNECT | 1/2"-3#12 | | SEE PANEL SCHED |
| *PUMP SCHEDULE* | | | | | | | | | | | |
| CP-1 | | 120/1 | | | | | | DISCONNECT | 1/2"-3#12 | A | 89 |
| BP-1 | | 208/3 | 5 | 4.47 | | 12.4 | | DISCONNECT | 1/2"-3#10 & 1#12 GND | A | 91,03,95 |
| PU-1 | | 120/1 | | | | | | DISCONNECT | 1/2"-3#12 | A | 97 |
| *ELECTRIC STORAGE TANK SCHEDULE* | | | | | | | | | | | |
| ST-1 | | 208/1 | | 12 | | | | DISCONNECT | 3/4"-3#8 & 1#10 GND | A | 98 |
| *TANKLESS WATER HEATER SCHEDULE* | | | | | | | | | | | |
| WH-1 | | 240/1 | | 15 | | 64 | | DISCONNECT | 1-1/4"-3#4 | A | 99,101 |


arc ARCHITECTS
119 S MAIN ST
SUITE 200
SEATTLE, WA
98104-2579
206 322 3322

TFWB ENGINEERS INC
Travis Fitzmaurice Wartelle Balangue Engineers Inc.
1200 Westlake Ave. N., #509
Seattle, WA 98109
p: 206-285-7228 | info@tf-wb.com


# The Chehalis Tribe Chehalis Elder Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: April 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:

**SCHEDULES**

SCALE: 1/8" = 1'-0"
DRAWN: AS/BO
CHECKED: KW
PROJECT NO: 0000000.00

SHEET:

**E6.0**

MAIN DISTRIBUTION PANEL
LOCATION ELEC 123
MOUNTING SURFACE
AIC 65,000
FED FROM

VOLTS 208 /120 3 PHASE, 4 WIRE, WYE
AMPS 1200
MAIN CIRCUIT BREAKER WITH GFP
GROUND BUS
UL SERVICE LABEL

| CCT NO. | CCT BRKR | DESCRIPTION | LOAD KVA | CCT NO. | CCT BRKR | DESCRIPTION | LOAD KVA |
|---|---|---|---|---|---|---|---|
| 1 | 225/3 | PANEL A | 154.20 | 2 | 225/3 | PANEL B | 38.65 |
| 3 | 400/3 | PANEK K | 13.82 | 4 | 125/3 | PV SYSTEM | 0.00 |
| 5 | 100/3 | SPARE | 0.00 | 6 | 100/3 | SPARE | 0.00 |
| 7 | 250/3 | FIRE CONTROL PANEL | 0.00 | 8 | | | 0.00 |
| 9 | | | 0.00 | 10 | | | 0.00 |
| 11 | | | 0.00 | 12 | | | 0.00 |
| 13 | | | 0.00 | 14 | | | 0.00 |

| CONNECTED LOAD | KVA | DEMAND FACTOR | DEMAND LOAD KVA | AMPS |
|---|---|---|---|---|
| LIGHTS | 14.50 | 125% | 18.13 | 50.31 |
| RECEPTACLES | 23.40 | 100% | 23.40 | 64.95 |
| HEATING | 131.06 | 100% | 131.06 | 363.79 |
| LARGEST MOTOR | 0.00 | 125% | 0.00 | 0.00 |
| OTHER MOTORS | 9.51 | 100% | 9.51 | 26.40 |
| MISCELLANEOUS | 0.00 | 100% | 0.00 | 0.00 |
| KITCH. APPLIANCES | 28.20 | 100% | 28.20 | 78.28 |
| | 206.67 | | 210.30 | 583.72 |

PANEL A 2 SECTION
LOCATION ELEC 123
MOUNTING SURFACE
AIC 10,000
FED FROM MDP

VOLTS 208 /120 3 PHASE, 4 WIRE, WYE
AMPS 225
MAIN LUGS ONLY
GROUND BUS+ISOLATED GROUND BUS
PROVIDE SURGE PROTECTOR

| CCT NO. | CCT BRKR | DESCRIPTION | LOAD KVA | CCT NO. | CCT BRKR | DESCRIPTION | LOAD KVA |
|---|---|---|---|---|---|---|---|
| 1 | 20/1 | SITE LIGHTS | 1.00 | 2 | 20/1 | RECEPTS | 0.72 |
| 3 | 20/1 | TRAIL LIGHTIS | 1.00 | 4 | 20/1 | RECEPTS | 0.18 |
| 5 | 20/1 | NORTH WING LIGHTS | 1.00 | 6 | 20/1 | RECEPTS | 0.72 |
| 7 | 20/1 | SE WING LIGHTS | 1.00 | 8 | 20/1 | RECEPTS | 0.36 |
| 9 | 20/1 | RECEPTS | 0.18 | 10 | 20/1 | RECEPTS | 0.18 |
| 11 | 20/1 | FIREPLACE PILOT LIGHT | 0.02 | 12 | 20/1 | RECEPTS | 0.72 |
| 13 | 20/1 | RECEPTS | 0.36 | 14 | 20/1 | RECEPTS | 0.36 |
| 15 | 20/1 | RECEPTS | 0.36 | 16 | 20/1 | RECEPTS | 0.72 |
| 17 | 20/1 | RECEPTS | 0.36 | 18 | 20/1 | RECEPTS | 0.18 |
| 19 | 20/1 | RECEPTS | 0.36 | 20 | 20/1 | RECEPTS | 0.18 |
| 21 | 20/1 | RECEPTS | 0.18 | 22 | 20/1 | RECEPTS | 0.18 |
| 23 | 20/1 | RECEPTS | 0.36 | 24 | 20/1 | RECEPTS | 0.18 |
| 25 | 20/1 | RECEPTS | 0.18 | 26 | 20/1 | RECEPTS | 0.72 |
| 27 | 20/1 | RECEPTS | 0.36 | 28 | 20/1 | RECEPTS | 0.18 |
| 29 | 20/1 | RECEPTS | 0.18 | 30 | 20/1 | RECEPTS | 0.18 |
| 31 | 20/1 | RECEPTS | 1.00 | 32 | 20/1 | RECEPTS | 0.90 |
| 33 | 20/1 | WATER DISPENSER | 1.00 | 34 | 20/1 | RECEPTS | 1.08 |
| 35 | 20/1 | TEA DISPENSER | 1.00 | 36 | 20/1 | RECEPTS | 0.72 |
| 37 | 20/1 | COFFEE MAKER | 1.00 | 38 | 20/1 | RECEPTS | 0.72 |
| 39 | 20/1 | ICED TEA BREWER | 0.00 | 40 | 15/2 | IU-9,10,11 | 1.67 |
| 41 | 15/2 | ERV-3 & ERV-4 | 1.50 | 42 | | | 0.00 |
| 43 | | | 0.00 | 44 | 15/2 | IU-12 | 1.60 |
| 45 | 15/2 | ERV-5 | 1.33 | 46 | | | 0.00 |
| 47 | | | 0.00 | 48 | 15/2 | IU-13,14,15 | 1.00 |
| 49 | 15/2 | HX-1,2,3 | 3.36 | 50 | | | 0.00 |
| 51 | | | 0.00 | 52 | 15/2 | IU-16,18 | 0.27 |
| 53 | 20/2 | RUH-1 | 1.99 | 54 | | | 0.00 |
| 55 | | | 0.00 | 56 | 15/2 | IU-17 | 1.60 |
| 57 | 20/2 | RUH-1 | 1.99 | 58 | | | 0.00 |
| 59 | | | 0.00 | 60 | 60/3 | OU-2 | 17.65 |
| 61 | 20/2 | RUH-2 | 6.00 | 62 | | | 0.00 |
| 63 | | | 0.00 | 64 | | | 0.00 |
| 65 | 20/2 | RUH-2 | 6.00 | 66 | 90/3 | OU-3 | 20.53 |
| 67 | | | 0.00 | 68 | | | 0.00 |
| 69 | 20/2 | RUH-2 | 6.00 | 70 | | | 0.00 |
| 71 | | | 0.00 | 72 | 15/2 | BC-2,3 | 0.50 |
| 73 | 20/2 | RUH-2 | 6.00 | 74 | | | 0.00 |
| 75 | | | 0.00 | 76 | 40/3 | DH-1 | 10.00 |
| 77 | 20/2 | EUH-2 | 2.60 | 78 | | | 0.00 |
| 79 | | | 0.00 | 80 | | | 0.00 |
| 81 | 30/2 | EUH-3 | 4.78 | 82 | 20/1 | EF-1 | 0.75 |
| 83 | | | 0.00 | 84 | 20/1 | SF-1 | 0.75 |
| 85 | 30/2 | EUH-3 | 4.78 | 86 | 20/1 | P-2 | 0.00 |
| 87 | | | 0.00 | 88 | 20/1 | P-2 | 0.00 |
| 89 | 20/1 | CP-1 | 0.00 | 90 | 20/1 | P-3A MEN 117 | 0.00 |
| 91 | 20/3 | BP-1 | 4.47 | 92 | 20/1 | P-3A WOMEN 117 | 0.00 |
| 93 | | | 0.00 | 94 | 20/1 | P-4A UNI 122 | 0.00 |
| 95 | | | 0.00 | 96 | 20/1 | P-6 | 0.00 |
| 97 | 20/1 | PU-1 | 0.00 | 98 | 20/1 | ST-1 | 12.00 |
| 99 | 70/2 | WH-1 | 15.00 | 100 | | | 0.00 |
| 101 | | | 0.00 | 102 | 20/1 | RECEPTS FISH PIT | 0.18 |
| 103 | 20/1 | | 0.00 | 104 | 20/1 | | 0.00 |
| 105 | 20/1 | | 0.00 | 106 | 20/1 | | 0.00 |
| 107 | 20/1 | | 0.00 | 108 | 20/1 | | 0.00 |
| 109 | 20/1 | | 0.00 | 110 | 20/1 | | 0.00 |
| 111 | 20/1 | | 0.00 | 112 | 20/1 | | 0.00 |
| 113 | 20/1 | | 0.00 | 114 | 20/1 | | 0.00 |
| 115 | 20/1 | | 0.00 | 116 | 30/3 | SURGE PROTECTOR | 0.00 |
| 117 | 20/1 | | 0.00 | 118 | | | 0.00 |
| 119 | 20/1 | | 0.00 | 120 | | | 0.00 |

| CONNECTED LOAD | KVA | DEMAND FACTOR | DEMAND LOAD KVA | AMPS |
|---|---|---|---|---|
| LIGHTS | 4.02 | 125% | 5.03 | 13.95 |
| RECEPTACLES | 12.06 | 100% | 12.06 | 33.48 |
| HEATING | 114.48 | 100% | 114.48 | 317.76 |
| LARGEST MOTOR | 0.00 | 125% | 0.00 | 0.00 |
| OTHER MOTORS | 7.64 | 100% | 7.64 | 21.21 |
| MISCELLANEOUS | 0.00 | 100% | 0.00 | 0.00 |
| KITCH. APPLIANCES | 16.00 | 65% | 10.40 | 28.87 |
| | 154.20 | | 149.61 | 415.26 |

PANEL B 1 SECTION
LOCATION JAN 107
MOUNTING SURFACE
AIC 10,000
FED FROM MDP

VOLTS 208 /120 3 PHASE, 4 WIRE, WYE
AMPS 225
MAIN LUGS ONLY
GROUND BUS+ISOLATED GROUND BUS
PROVIDE SURGE PROTECTOR

| CCT NO. | CCT BRKR | DESCRIPTION | LOAD KVA | CCT NO. | CCT BRKR | DESCRIPTION | LOAD KVA |
|---|---|---|---|---|---|---|---|
| 1 | 20/1 | RECEPTS | 0.72 | 2 | 20/1 | EXTERIOR BLDG LTS | 1.00 |
| 3 | 20/1 | RECEPTS | 0.90 | 4 | 20/1 | NORTH HALL LIGHTS | 1.00 |
| 5 | 20/1 | RECEPTS | 0.36 | 6 | 20/1 | SOUTH HALL LIGHTS | 1.00 |
| 7 | 20/1 | RECEPTS | 0.90 | 8 | 20/1 | SW WING LIGHTS | 1.00 |
| 9 | 20/1 | RECEPTS | 0.18 | 10 | 20/1 | RECEPTS | 0.36 |
| 11 | 20/1 | RECEPTS | 0.36 | 12 | 20/1 | RECEPTS | 0.18 |
| 13 | 20/1 | RECEPTS | 0.18 | 14 | 20/1 | RECEPTS | 0.18 |
| 15 | 20/1 | RECEPTS | 1.08 | 16 | 20/1 | RECEPTS | 0.18 |
| 17 | 20/1 | RECEPTS | 0.36 | 18 | 20/1 | RECEPTS | 0.72 |
| 19 | 20/1 | RECEPTS | 0.72 | 20 | 20/1 | RECEPTS | 0.72 |
| 21 | 20/1 | RECEPTS | 0.72 | 22 | 20/1 | RECEPTS | 0.72 |
| 23 | 15/2 | ERV-1 | 0.65 | 24 | 20/1 | RECEPTS | 0.18 |
| 25 | | | 0.00 | 26 | 15/2 | IU-1,2,3 | 0.85 |
| 27 | 15/2 | ERV-2 | 0.43 | 28 | | | 0.00 |
| 29 | | | 0.00 | 30 | 15/2 | IU-4,5,6 | 0.40 |
| 31 | 45/3 | OU-1 | 11.17 | 32 | | | 0.00 |
| 33 | | | 0.00 | 34 | 15/2 | IU-7,8 | 0.62 |
| 35 | | | 0.00 | 36 | | | 0.00 |
| 37 | 15/2 | BC-1 | 0.17 | 38 | 30/2 | EUH-1 | 4.16 |
| 39 | | | 0.00 | 40 | | | 0.00 |
| 41 | 20/1 | P-4A RR 109,112 | 0.00 | 42 | 20/1 | | 0.00 |
| 43 | 20/1 | | 0.00 | 44 | 20/1 | | 0.00 |
| 45 | 20/1 | | 0.00 | 46 | 20/1 | | 0.00 |
| 47 | 20/1 | | 0.00 | 48 | 20/1 | | 0.00 |
| 49 | 20/1 | | 0.00 | 50 | 20/1 | | 0.00 |
| 51 | 20/1 | | 0.00 | 52 | 20/1 | | 0.00 |
| 53 | 20/1 | | 0.00 | 54 | 20/1 | | 0.00 |
| 55 | 20/1 | | 0.00 | 56 | 30/3 | SURGE PROTECTOR | 0.00 |
| 57 | 20/1 | | 0.00 | 58 | | | 0.00 |
| 59 | 20/1 | | 0.00 | 60 | | | 0.00 |

| CONNECTED LOAD | KVA | DEMAND FACTOR | DEMAND LOAD KVA | AMPS |
|---|---|---|---|---|
| LIGHTS | 10.48 | 125% | 13.10 | 36.36 |
| RECEPTACLES | 9.72 | 100% | 9.72 | 26.98 |
| HEATING | 16.58 | 100% | 16.58 | 46.02 |
| LARGEST MOTOR | 0.00 | 125% | 0.00 | 0.00 |
| OTHER MOTORS | 1.87 | 100% | 1.87 | 5.19 |
| MISCELLANEOUS | 0.00 | 100% | 0.00 | 0.00 |
| KITCH. APPLIANCES | 0.00 | 65% | 0.00 | 0.00 |
| | 38.65 | | 41.27 | 114.55 |

PANEL K 1 SECTION
LOCATION KITCHEN
MOUNTING SURFACE
AIC 10,000
FED FROM MDP

VOLTS 208 /120 3 PHASE, 4 WIRE, WYE
AMPS 400
MAIN LUGS ONLY
GROUND BUS+ISOLATED GROUND BUS
PROVIDE SURGE PROTECTOR

| CCT NO. | CCT BRKR | DESCRIPTION | LOAD KVA | CCT NO. | CCT BRKR | DESCRIPTION | LOAD KVA |
|---|---|---|---|---|---|---|---|
| 1 | 20/1 | REFRIG | 0.70 | 2 | 20/1 | HOOD FIRE SUPPRESSION | 1.00 |
| 3 | 20/1 | RECEPTS | 0.18 | 4 | 20/1 | RECEPTS | 0.18 |
| 5 | 20/1 | RECEPTS | 0.18 | 6 | 20/1 | DISHWASHER | 1.00 |
| 7 | 20/1 | RECEPTS | 0.18 | 8 | 20/1 | RECEPTS | 0.18 |
| 9 | 50/2 | RANGE | 8.80 | 10 | 20/1 | RECEPTS | 0.18 |
| 11 | | | 0.00 | 12 | 20/1 | RECEPTS | 0.18 |
| 13 | 20/1 | HOOD | 0.70 | 14 | 20/1 | RECEPTS | 0.18 |
| 15 | 20/1 | RECEPTS | 0.18 | 16 | 20/1 | | 0.00 |
| 17 | 20/1 | | 0.00 | 18 | 20/1 | | 0.00 |
| 19 | 20/1 | | 0.00 | 20 | 20/1 | | 0.00 |
| 21 | 20/1 | | 0.00 | 22 | 20/1 | | 0.00 |
| 23 | 20/1 | | 0.00 | 24 | 20/1 | | 0.00 |
| 25 | 20/1 | | 0.00 | 26 | 20/1 | | 0.00 |
| 27 | 20/1 | | 0.00 | 28 | 20/1 | | 0.00 |
| 29 | 20/1 | | 0.00 | 30 | 20/1 | | 0.00 |
| 31 | 20/1 | | 0.00 | 32 | 20/1 | | 0.00 |
| 33 | 20/1 | | 0.00 | 34 | 20/1 | | 0.00 |
| 35 | 20/1 | | 0.00 | 36 | 20/1 | | 0.00 |
| 37 | 20/1 | | 0.00 | 38 | 20/1 | | 0.00 |
| 39 | 20/1 | | 0.00 | 40 | 20/1 | | 0.00 |
| 41 | 20/1 | | 0.00 | 42 | 20/1 | | 0.00 |
| 43 | 20/1 | | 0.00 | 44 | 20/1 | | 0.00 |
| 45 | 20/1 | | 0.00 | 46 | 20/1 | | 0.00 |
| 47 | 20/1 | | 0.00 | 48 | 20/1 | | 0.00 |
| 49 | 20/1 | | 0.00 | 50 | 20/1 | | 0.00 |
| 51 | 20/1 | | 0.00 | 52 | 20/1 | | 0.00 |
| 53 | 20/1 | | 0.00 | 54 | 20/1 | | 0.00 |
| 55 | 20/1 | | 0.00 | 56 | 20/1 | | 0.00 |
| 57 | 20/1 | | 0.00 | 58 | 20/1 | | 0.00 |
| 59 | 20/1 | | 0.00 | 60 | 20/1 | | 0.00 |

| CONNECTED LOAD | KVA | DEMAND FACTOR | DEMAND LOAD KVA | AMPS |
|---|---|---|---|---|
| LIGHTS | 0.00 | 125% | 0.00 | 0.00 |
| RECEPTACLES | 1.62 | 100% | 1.62 | 4.50 |
| HEATING | 0.00 | 100% | 0.00 | 0.00 |
| LARGEST MOTOR | 0.00 | 125% | 0.00 | 0.00 |
| OTHER MOTORS | 0.00 | 100% | 0.00 | 0.00 |
| MISCELLANEOUS | 0.00 | 100% | 0.00 | 0.00 |
| KITCH. APPLIANCES | 12.20 | 65% | 7.93 | 22.01 |
| | 13.82 | | 9.55 | 26.51 |

LIGHTING FIXTURE SCHEDULE

| TYPE | LAMP | MANUFACTURER CATALOG | DESCRIPTION |
|---|---|---|---|
| B1 | LED 3000K | GARDCO | 42" HIGH ROUND ALUMINUM BOLLARD. SHARP CUTOFF OPTICS. |
| B2 | LED 3000K | BEGA BASE: 84623 LT HEAD: 99865 | 34-1/2" HIGH ROUND ALUMINUM BOLLARD WITH DIAMETER OF 10-3/8". BRONZE FINISH WITH 360 DEGREE SHIELDED LIGHT HEAD. |
| P1 | LED 3000K | GARDCO | POLE LIGHT WITH ONE FIXTURE HEAD. GULL WING STYLE. SHARP CUTOFF OPTICS. 20' HIGH ROUND ALUMINUM POLE MOUNTED ON PRECAST CONCRETE BASE. |
| P2 | LED 3000K | GARDCO | POLE LIGHT WITH TWO FIXTURE HEADS. GULL WING STYLE. SHARP CUTOFF OPTICS. 20' HIGH ROUND ALUMINUM POLE MOUNTED ON PRECAST CONCRETE BASE. |
| PL-1 | LED 3000K 30 WATTS | SELUX M60 | 4' PENDANT MOUNTED LINEAR FIXTURE. UL LISTED FOR WET LOCATIONS. |
| PL-2 | LED 3000K 40 WATTS | PINNACLE F24 V | 24" DIAMETER PENDANT MOUNTED FIXTURE WITH EXTRUDED ALUMINUM HOUSING AND CONCAVE WHITE VIRGIN ACRYLIC LENS. AIRCRAFT CABLE HUNG.PROVIDE SLOPED CEILING MOUNTING ADAPTER WHERE NECESSARY. |
| PL-3 | LED 3000K | GOTHAM EVO8CYL-30-25-AR-MD-LSS-PM | 8" DIAMETER X 15.25" HIGH PENDANT MOUNTED CYLINDER FIXTURE. CLEAR TEMPERED GLASS LENS. 0-10V DIMMING DRIVER. AIRCRAFT CABLE HUNG. UL LISTED FOR WET LOCATIONS.PROVIDE SLOPED CEILING MOUNTING ADAPTER WHERE NECESSARY. |
| PL-4 | LED 3000K | BOD: RESOLUTE MARCEL ALT: RESOLUTE BONNEVILLE PINNACLE F36V | 36" DIAMETER PENDANT MOUNTED FIXTURE WITH EXTRUDED ALUMINUM HOUSING AND CONCAVE WHITE VIRGIN ACRYLIC LENS. AIRCRAFT CABLE HUNG. |
| PL-5 | LED 3000K 48 WATTS | LITHONIA | CHAIN HUNG ENCLOSED INDUSTRIAL. UL LISTED FOR DAMP LOCATIONS. |
| PL-6 | LED 3000K 15 WATTS | GRAYPANTS GP-101 | ARCHITECTURAL PENDANT MOUNTED CLUSTER LIGHTS. |
| RL-1 | LED 3000K 29.5 WATTS | METALUX 22FP2830C9 | 2'X2' EDGE-LIT RECESSED PANEL. |
| RL-2 | LED 3000K 13.7 WATTS | PINNACLE EV2D-30-X-120 | 2" RECESSED LINEAR FIXTURE. PROVIDE FIXTURE LENGTH/MOUNTING ACCESSORIES AS REQUIRED BY LIGHTING PLANS AND ARCHITECTURAL RCP. |
| RL-3 | LED 3000K 23.5 WATTS | GOTHAM EVO 30/20 4AR | 4" DIAMETER DOWNLIGHT WITH SEMI-SPECULAR CLEAR REFLECTOR |
| RL-4 | LED 3000K | GOTHAM EVO2LW | 2" RECESSED ROUND LENSED WALL WASH. UL LISTED FOR WET LOCATIONS. |
| WL-1 | LED 3000K | BOD:BEGA 111 MINI SCONCE ALT:GARDCO 111 | TRAPEZOIDAL WALL SCONCE WITH TYPE 3 DISTRIBUTION |

ALL COLORS, FINISHES, ETC. ARE BY ARCHITECT FROM MANUFACTURER'S STANDARD OPTIONS.


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# The Chehalis Tribe Chehalis Elder Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: April 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:

**SCHEDULES**

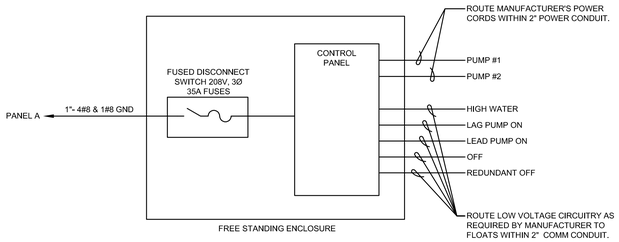
SCALE: 1/8" = 1'-0"
DRAWN: AS/BO
CHECKED: KW
PROJECT NO: 0000000.00

SHEET:

**E6.1**

## FREE STANDING ENCLOSURE REQUIREMENTS:

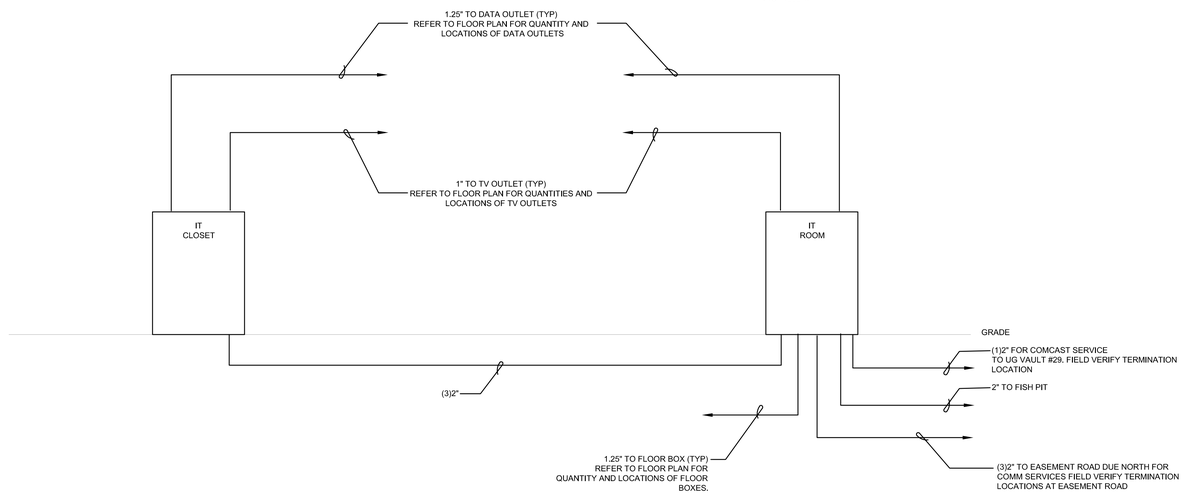
1. 5' HIGH x 36" WIDE x 16" DEEP.
2. NEMA 3R.
3. 12 GAUGE STEEL.
4. PAD LOCKABLE DOOR.
5. OPEN BOTTOM.
6. SCREENED AND GASKETED VENTS.
7. FREESTANDING - MOUNT ON CONCRETE PAD.
8. OPENING ON TOP FOR CONTROL PANEL BEACON. WIRE MESH PROTECTIVE ENCLOSURE AROUND BEACON.
9. MOUNT CONTROL PANEL AND FUSED DISCONNECT WITHIN ENCLOSURE. CONTROL PANEL SHALL BE MOUNTED SUCH THAT ALARM BEACON PROTRUDES THROUGH OPENING IN TOP ENCLOSURE AND IS VISIBLE.
10. BY SKYLINE ELECTRIC AND MANUFACTURING (OR EQUAL).




**1 POWER DIAGRAM**
NTS

## GENERAL NOTES:

1. DATA AND TV OUTLETS SHALL BE ROUGH IN ONLY. PROVIDE 2-1/8" DEEP DOUBLE GANG BOX WITH SINGLE GANG MUD RING AND BLANK FACEPLATE FOR EACH OUTLET. HOMERUN CONDUIT (SIZE PER RISER) FROM EACH OUTLET TO IT ROOM OR IT CLOSET.
2. PROVIDE A PULL STRING IN EACH COMM CONDUIT.
3. OUTLETS NORTH OF GRID 3 SHALL HOMERUN TO IT ROOM. OUTLETS SOUTH OF GRID 3 SHALL HOMERUN TO IT CLOSET. FLOORBOX OUTLETS SHALL ALL HOMERUN TO IT ROOM.
4. ALL CONDUITS FOR DATA AND TV OUTLETS SHALL BE ROUTED OVERHEAD. EXCEPTION: CONDUITS FOR DATA OUTLETS IN FLOORBOXES SHALL BE ROUTED UNDERGROUND.
5. SERVICE CONDUITS, CONDUIT TO FISH PIT, AND CONDUITS BETWEEN IT ROOM AND IT CLOSET SHALL BE ROUTED UNDERGROUND AS PER PLAN.
6. ALL CONDUITS SHALL BE ROUTED CONCEALED IN WALLS OR ABOVE CEILINGS. IN OPEN CEILING AREAS, CONDUITS SHALL BE ROUTED IN RIGID INSULATION. COORDINATE ROUTES WITH RIGID INSULATION INSTALLER.




**2 COMM CONDUIT RISER**
NTS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CONTENTS:

**PUMP SYSTEM SCHEMATIC & COMM RISER**

| | |
|---|---|
| SCALE: | 1/8" = 1'-0" |
| DRAWN: | AS/BO |
| CHECKED: | KW |
| PROJECT NO: | 0000000.00 |

SHEET:
**E6.2**

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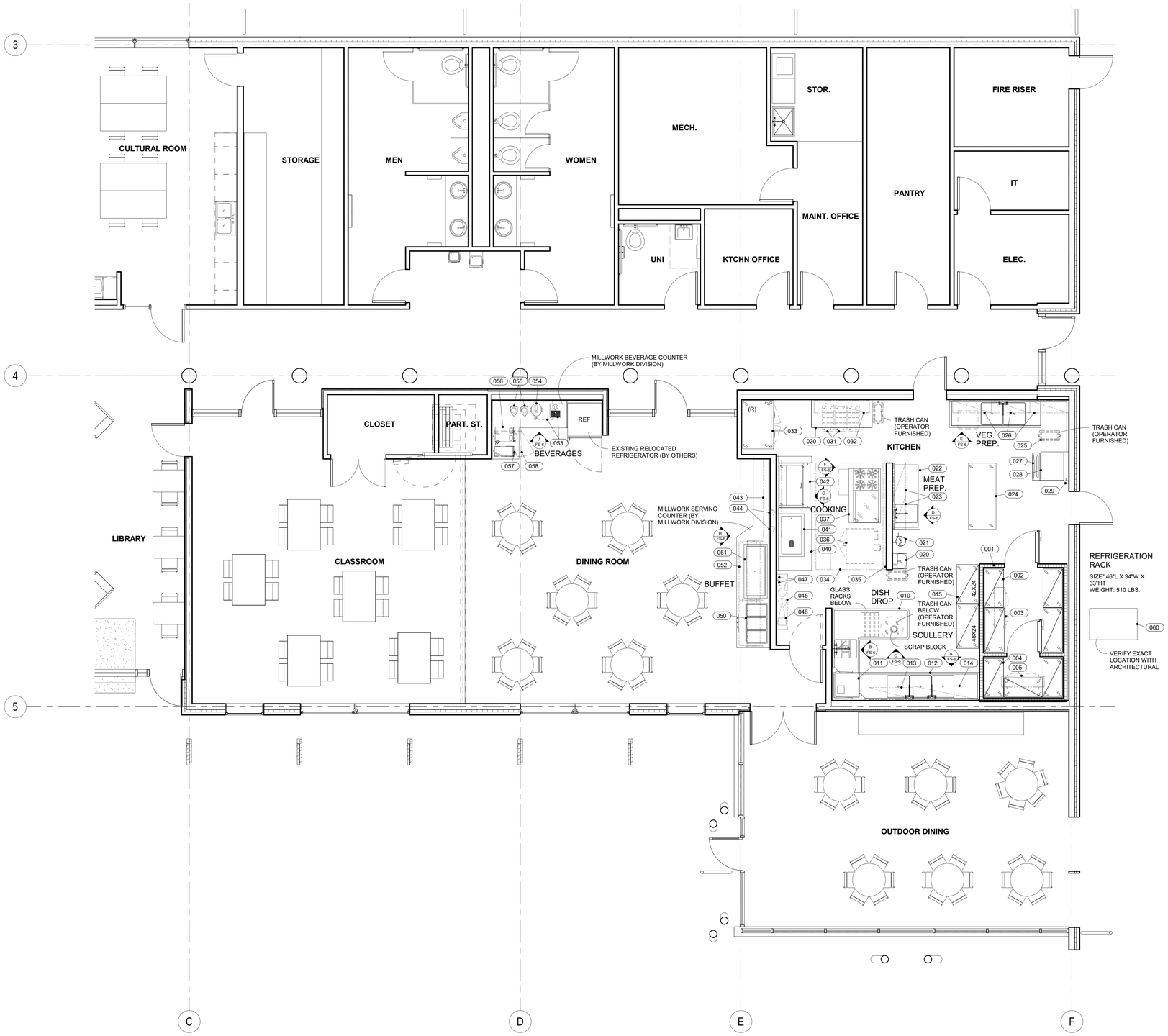


1 KITCHEN EQUIPMENT PLAN
1/4" = 1'-0"

EQUIPMENT SCHEDULE

| ITEM | QTY | DESCRIPTION | MANUFACTURER | MODEL |
|---|---|---|---|---|
| 001 | 1 | WALK-IN COOLER / FREEZER ASSEMBLY | AMERICAN PANEL | CUSTOM |
| 002 | 4 | MOBILE COOLER SHELVING | CUSTOM FABRICATE | CUSTOM |
| 003 | 1 | UNIT COOLER (COOLER) | OMNI | KLP107MA-S1D |
| 004 | 3 | MOBILE FREEZER SHELVING | CUSTOM FABRICATE | CUSTOM |
| 005 | 1 | UNIT COOLER (FREEZER) | OMNI | KLP105LE-S2D |
| 006 | 1 | SPARE NUMBER | | |
| 007 | 1 | SPARE NUMBER | | |
| 008 | 1 | SPARE NUMBER | | |
| 009 | 1 | SPARE NUMBER | | |
| 010 | 1 | SOILED DISHTABLE ASSEMBLY | | |
| 011 | 1 | DISHWASHER WITH BOOSTER HEATER (VENTLESS) | HOBART | AM15VLT-2 |
| 012 | 1 | CLEAN DISHTABLE W/ POT WASHING SINKS | CUSTOM FABRICATE | CUSTOM |
| 013 | 1 | WALL SHELVING | METRO | SMARTWALL G3 |
| 014 | 1 | UTENSIL RACK W/ SHELF | CUSTOM FABRICATE | CUSTOM |
| 015 | 2 | MOBILE POT SHELVING | CUSTOM FABRICATE | CUSTOM |
| 016 | 1 | SPARE NUMBER | | |
| 017 | 1 | SPARE NUMBER | | |
| 018 | 1 | SPARE NUMBER | | |
| 019 | 1 | SPARE NUMBER | | |
| 020 | 1 | HAND SINK W/ SOAP AND TOWEL DISPENSER | ADVANCE TABCO | 7-PS-87 |
| 021 | 1 | EYE WASH STATION | T & S BRASS | EW-7360B |
| 022 | 1 | WORKTABLE WITH SINK | CUSTOM FABRICATE | CUSTOM |
| 023 | 2 | WALL SHELVING | METRO | SMARTWALL G3 |
| 024 | 1 | MOBILE WORTABLE | CUSTOM FABRICATE | CUSTOM |
| 025 | 1 | WORKTABLE WITH SINKS AND DRAWER | CUSTOM FABRICATE | CUSTOM |
| 026 | 3 | WALL SHELVING | METRO | SMARTWALL G3 |
| 027 | 1 | ICE BIN (365 LBS.) | MANITOWOC ICE | D-400 |
| 028 | 1 | ICE MAKER (310 LBS.) | MANITOWOC ICE | IYT-0300A |
| 029 | 1 | WATER FILTER | OPTIPURE | QTI-1 |
| 030 | 1 | WORKTABLE WITH MAPLE TOP | CUSTOM FABRICATE | CUSTOM |
| 031 | 3 | MOBILE INGREDIENT BINS | CAMBRO | IBSF27 |
| 032 | 1 | WALL SHELVING | METRO | SMARTWALL G3 |
| 033 | 1 | MOBILE REACH-IN REFRIGERATOR | TRUE | STR2R-2S-HC |
| 034 | 1 | EXHAUST HOOD W/ MAKE-UP AIR (TYPE 1) | STREIVOR | - |
| 035 | 1 | STAINLESS STEEL WALL FLASHING | CUSTOM FABRICATE | CUSTOM |
| 036 | 1 | CONVECTION OVEN W/ STAND (EXISTING/ RELOCATE) | SOUTHBEND | SLGS/12SC |
| 037 | 1 | MOBILE (4) OB RANGE WITH GRIDDLE AND OVEN | GARLAND | G60-4G36RS |
| 038 | 1 | SPARE NUMBER | | |
| 039 | 1 | SPARE NUMBER | | |
| 040 | 1 | CHEF'S COUNTER | CUSTOM FABRICATE | CUSTOM |
| 041 | 1 | REFRIGERATED HOT/COLD PANS (DROP-IN) | WELLS BLOOMFIELD | HRCP-7300 |
| 042 | 1 | MOBILE REFRIGERATED WORKTABLE | TRUE | TFP-48-18M-D-4 |
| 043 | 1 | STAINLESS STEEL PASS SHELF | CUSTOM FABRICATE | CUSTOM |
| 044 | 2 | HEAT LAMP | HATCO | DL-700 |
| 045 | 1 | FIRE SUPPRESSION SYSTEM | STREIVOR | R-102 WET |
| 046 | 1 | EXHAUST HOOD CONTROL CABINET | STREIVOR | - |
| 047 | 1 | EXHAUST HOOD TEMP. SENSOR AND LIGHT/ FAN SWITCH | STREIVOR | - |
| 048 | 1 | SPARE NUMBER | | |
| 049 | 1 | SPARE NUMBER | | |
| 050 | 1 | HOT FOOD WELLS (DROP-IN) | WELLS BLOOMFIELD | MOD300TDM |
| 051 | 1 | REFRIGERATED COLD PAN (DROP-IN) | WELLS BLOOMFIELD | RCP-400 |
| 052 | 1 | FOOD SHIELD W/ DISPLAY LIGHTS | BSI | ZG9930 |
| 053 | 1 | CHILLED WATER DISPENSER W/ DRIP TROUGH | CRYSALLI | CBR-V1C |
| 054 | 1 | TEA DISPENSER | BUNN | 34100.0002 |
| 055 | 2 | COFFEE AIRPOTS | BUNN | 13041.0001 |
| 056 | 1 | COFFEE MAKER | BUNN-O-MATIC | CWTF-TWIN-APS |
| 057 | 1 | ICED TEA BREWER | BUNN-O-MATIC | 41400.0000 |
| 058 | 1 | MOBILE UNDERCOUNTER REFRGERATOR | TRUE FOOD SERVICE EQUIPMENT, INC. | TUC-27-ADA-HC |
| 059 | 1 | SPARE NUMBER | | |
| 060 | 1 | REFRIGERATION RACK | OMNI | OTA1-AC-H-2-0-3-4 |

THIS DRAWING IS INTENDED FOR INFORMATION PURPOSES ONLY FOR USE BY THE ARCHITECT AND ENGINEERS TO PREPARE THEIR DOCUMENTS. SEE APPROVED KITCHEN EQUIPMENT CONTRACTOR ROUGH-IN DRAWINGS FOR CONSTRUCTION.


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# The Chehalis Tribe
# Chehalis Elder Center

CHEHALIS, WA

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: April 16th, 2021

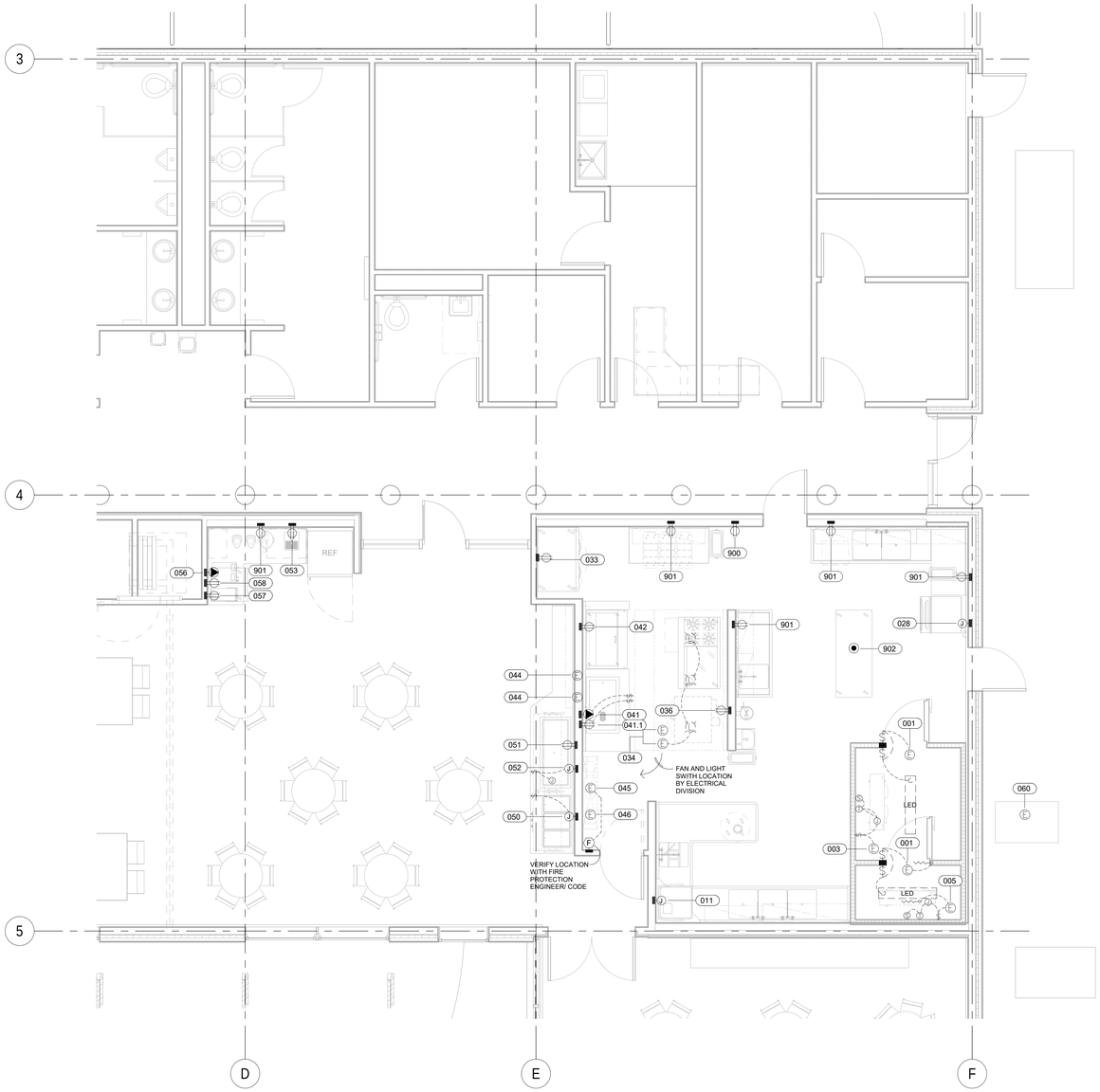
| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:

**EQUIPMENT PLAN AND SCHEDULE**

SCALE: 1/4" = 1'-0"
DRAWN: Author
CHECKED: Checker
PROJECT NO: 0000000.00

SHEET: FS-1

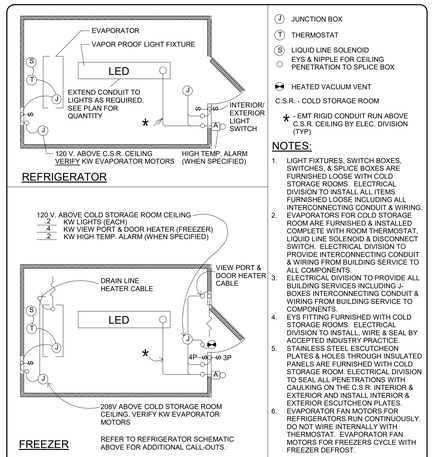



## ELECTRICAL NOTES

1. ELECTRICAL PLAN SHOWS ROUGH-IN POINTS AND SCHEDULED CONNECTIONS. KITCHEN EQUIPMENT CONTRACTOR WILL PROVIDE DIMENSIONED ROUGH-IN DRAWINGS FOR CONSTRUCTION.
2. ELECTRICAL SYSTEM IS DESIGNED FOR 120/208 VOLTS, 1 & 3 PHASE, 60 HERTZ, 4 WIRE SYSTEM.
3. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL JUNCTION BOXES, RECEPTACLES, COVER PLATES, PULL BOXES, CONDUIT AND WIRING EXCEPT WHERE NOTED. RECEPTACLES AND COVER PLATES SHALL BE BRUSHED STAINLESS STEEL FURNISHED BY ELECTRICAL DIVISION.
4. ALL CONDUIT RUNS INDICATED FOR REFRIGERATION, DRINK AND LIQUOR SYSTEM LINES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL DIVISION. CONDUIT SHALL HAVE 24" (600MM) MINIMUM RADIUS BENDS.
5. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL FOR FABRICATED COUNTERS AS NOTED COMPLETE WITH JUNCTION BOXES, CONDUIT, SURFACE MOUNTED ELECTRICAL BOXES, RECEPTACLES, COVER PLATES, ELECTRICAL RACEWAYS, CIRCUIT BREAKER PANEL AND WIRING. ELECTRICAL DIVISION TO MAKE FINAL CONNECTION.
6. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH AND INSTALL VAPOR PROOF VENTILATOR LIGHTS COMPLETE WITH LAMPS. INTERCONNECTING CONDUIT, WIRING WITH WALL SWITCH FURNISHED AND INSTALLED BY THE ELECTRICAL DIVISION.
7. ADDITIONAL CONVENIENCE RECEPTACLES, TELEPHONE AND INTERCOM JACKS AND TEMPERATURE MONITORING SYSTEM ETC., SHALL BE LOCATED BY THE ELECTRICAL ENGINEER/ ARCHITECT AND AS REQUIRED BY CODE.
8. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL INTERCONNECTING CONDUIT AND WIRING BETWEEN MICRO-SWITCH AND SOLENOID FUEL SHUT OFF VALVE FURNISHED WITH FIRE SUPPRESSION SYSTEM SUPPLIED BY THE KITCHEN EQUIPMENT CONTRACTOR.
9. PRE-FABRICATED COLD STORAGE ROOMS ARE FURNISHED BY THE KITCHEN EQUIPMENT CONTRACTOR COMPLETE WITH SPLICE BOXES, LIGHT FIXTURES, LAMPS, LIGHT SWITCHES AND DOOR HEATERS. ELECTRICAL DIVISION TO INSTALL SAME AND SHALL FURNISH AND INSTALL INTERCONNECTING CONDUIT, WIRING SEALOFFS, SEALANT AND MAKE FINAL CONNECTIONS.
10. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL INTERCONNECTING CONDUIT AND WIRING BETWEEN KITCHEN EQUIPMENT CONTRACTOR FURNISHED LOW TEMP COLD STORAGE ROOM EVAPORATOR TERMINAL BLOCK, SWITCH, FAN DOOR SWITCH AND COMPRESSOR CONTROL PANEL.
11. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL EMPTY CONDUIT WITH JUNCTION BOXES FOR INSTALLATION OF OWNER SUPPLIED I.T. EQUIPMENT INCLUDING POS/ ELECTRONIC CASH CONTROL SYSTEM. ELECTRICAL DIVISION TO VERIFY INSTALLATION IN ACCORDANCE WITH OWNER'S REQUIREMENTS AND MANUFACTURER'S INSTRUCTIONS.
12. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL DISCONNECTS FOR ALL ELECTRICAL EQUIPMENT UNDER HOOD ACTIVATED BY FIRE SUPPRESSION SYSTEM.

## ELECTRICAL SYMBOLS

- DUPLEX RECT., 20-AMP, 120-VOLT, GROUND TYPE, HORIZONTAL MOUNTED
- SIMPLEX RECT., 20-AMP, 120-VOLT, GROUND TYPE, HORIZONTAL MOUNTED
- SPECIAL PURPOSE OUTLET, VOLTAGE AS INDICATED, GROUND TYPE, HORIZONTAL MOUNTED
- (J) JUNCTION BOX, HORIZONTAL MOUNTED
- (E) ELECTRICAL CONDUIT, STUB AS INDICATED FOR DIRECT CONNECTION
- FLOOR/CEILING RECEPTACLE AS INDICATED
- SWITCH
- (J) FIXTURE MOUNTED JUNCTION BOX
- FIXTURE MOUNTED RECEPTACLE
- (2) DUPLEX RECT., 120-V, EMPTY JBOX WITH CONDUIT INTERCONNECTING P.O.S. PRE-CHECK & PRINTERS, ADD PHONE LINE
- FIXTURE MOUNTED ELECTRICAL PANEL
- (L) INCANDESCENT LIGHT FIXTURE
- F FLUORESCENT LIGHT FIXTURE
- FIELD WIRING RUNS
- (F) FIRE SUPPRESSION MANUAL PULL STATION EMPTY JBOX WITH 1/2" CONDUIT RUN IN WALL UP THRU CEILING TO ATTIC SPACE




- (J) JUNCTION BOX
- (T) THERMOSTAT
- (S) LIQUID LINE SOLENOID
- EYS & NIPPLE FOR CEILING PENETRATION TO SPLICE BOX
- HEATED VACUUM VENT
- C.S.R. - COLD STORAGE ROOM
- - EMT RIGID CONDUIT RUN ABOVE C.S.R. CEILING BY ELEC. DIVISION (TYP.)

NOTES:

1. LIGHT FIXTURES, SWITCH BOXES, SWITCHES, & SPLICE BOXES ARE FURNISHED LOOSE WITH COLD STORAGE ROOMS. ELECTRICAL DIVISION TO INSTALL ALL ITEMS FURNISHED LOOSE INCLUDING ALL INTERCONNECTING CONDUIT & WIRING.
2. EVAPORATORS FOR COLD STORAGE ROOM ARE FURNISHED & INSTALLED COMPLETE WITH ROOM THERMOSTAT, LIQUID LINE SOLENOID & DISCONNECT SWITCH. ELECTRICAL DIVISION TO PROVIDE INTERCONNECTING CONDUIT & WIRING FROM BUILDING SERVICE TO ALL COMPONENTS.
3. ELECTRICAL DIVISION TO PROVIDE ALL BUILDING SERVICES INCLUDING J-BOXES INTERCONNECTING CONDUIT & WIRING FROM BUILDING SERVICE TO COMPONENTS.
4. EYS FITTING FURNISHED WITH COLD STORAGE ROOMS. ELECTRICAL DIVISION TO INSTALL WIRE & SEAL BY ACCEPTED INDUSTRY PRACTICE.
5. STAINLESS STEEL ESCUTCHEON PLATES & HOLES THROUGH INSULATED PANELS ARE FURNISHED WITH COLD STORAGE ROOM. ELECTRICAL DIVISION TO SEAL ALL PENETRATIONS WITH CAULKING ON THE C.S.R. INTERIOR & EXTERIOR AND INSTALL INTERIOR & EXTERIOR ESCUTCHEON PLATES.
6. EVAPORATOR FAN MOTORS FOR REFRIGERATORS RUN CONTINUOUSLY. DO NOT WIRE INTERNALLY WITH THERMOSTAT. EVAPORATOR FAN MOTORS FOR FREEZERS CYCLE WITH FREEZER DEFROST.

5 TYPICAL COLD STORAGE ROOMS ELEC. DIAGRAM

### NOTE

ALL WALL MOUNT ELECTRICAL RECEPTACLE AND J-BOXES ARE TO BE FLUSH MOUNTED IN WALLS WITH NO EXPOSED CONDUIT SHOWING ON SURFACE OF WALLS. ARCHITECT TO PROVIDE MINIMUM WALL FURRING IF REQUIRED.

### NOTE: WALK-IN ELECTRICAL

ALL CONDUIT SHALL BE RUN ON THE EXTERIOR CEILING OF ALL COLD STORAGE ROOMS AND SHALL PENETRATE THE CEILING AT A POINT WHERE THE CONDUIT CAN DROP DIRECTLY TO THE POINT OF CONNECTION. UNDER NO CIRCUMSTANCES, WILL ELECTRICAL CONDUIT BE PERMITTED ON THE INTERIOR.

### ELECTRICAL SCHEDULE

| ITEM | QTY | DESCRIPTION | MANUFACTURER | MODEL | VOLTS | PHASE | AMPS | KW | HP | ELEC TYPE | AFF | ELECTRICAL COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | 1 | WALK-IN COOLER / FREEZER ASSEMBLY | AMERICAN PANEL | CUSTOM | | 1 | | | | DIR | | (2 @ 120V AT 8.0 AMPS EA.) STUB DOWN. SEE DETAIL "5" SHEET FS-2 FOR WIRING DIAGRAM |
| 003 | 1 | UNIT COOLER (COOLER) | OMNI | KLP107MA-S1D | 120 | 1 | 1.0 | | | JBOX | | STUB DOWN. SEE DETAIL "5" SHEET FS-2 FOR WIRING DIAGRAM |
| 005 | 1 | UNIT COOLER (FREEZER) | OMNI | KLP105LE-S2D | 208 | 1 | 0.6 | | | JBOX | | STUB DOWN. SEE DETAIL "5" SHEET FS-2 FOR WIRING DIAGRAM |
| 011 | 1 | DISHWASHER WITH BOOSTER HEATER (VENTLESS) | HOBART | AM15VLT-2 | 208 | 3 | 45.4 | | | JBOX | 18" | |
| 028 | 1 | ICE MAKER (310 LBS.) | MANITOWOC ICE | IYT-0300A | 120 | 1 | 8.8 | | | JBOX | 72" | |
| 033 | 1 | MOBILE REACH-IN REFRIGERATOR | TRUE | STR2R-2S-HC | 120 | 1 | 9.1 | | | REC | 84" | (2 @ 120V AT 9.1 AMPS EA.) |
| 036 | 1 | CONVECTION OVEN W/ STAND (EXISTING/ RELOCATE) | SOUTHBEND | SLGS/12SC | 120 | 1 | 7.9 | | | REC | 48" | VERIFY ALL ELECTRICAL REQUIREMENTS WITH EXISTING EQUIPMENT |
| 041 | 1 | REFRIGERATED HOT/COLD PANS (DROP-IN) | WELLS BLOOMFIELD | HRCP-7300 | 208 | 1 | 14.4 | | | REC | 18" | FOR HOT OPERATION |
| 041.1 | 1 | REFRIGERATED HOT/COLD PANS (DROP-IN) | | | 120 | 1 | 5.6 | | | REC | 18" | FOR REFRIGERATION OPERATION |
| 042 | 1 | MOBILE REFRIGERATED WORKTABLE | TRUE | TFP-48-18M-D-4 | 120 | 1 | 2.9 | | | REC | 18" | |
| 044 | 2 | HEAT LAMP | HATCO | DL-700 | 120 | 1 | | 1.1 | | JBOX | | STUB DOWN, INTERCONNECT TO TRAK, LIGHT SWITCH LOCATION (BY ELECTRICAL DIVISION) |
| 045 | 1 | FIRE SUPPRESSION SYSTEM | STREIVOR | R-102 WET | 120 | 1 | 2.0 | | | DIR | | TUB DOWN, CONDUIT RUN ABOVE CEILING. POWER REQUIRED IF ELECTRONIC GAS SHUT OFF VALVE USED. |
| 046 | 1 | EXHAUST HOOD CONTROL CABINET | STREIVOR | - | 120 | 1 | 20.0 | | | DIR | | STUB DOWN, INTER-CONNECT WITH LIGHT AND FAN SWITCH, SEE FSV-3 SHEET FOR ADDITIONAL INFORMATION AND DETAILS. |
| 047 | 1 | EXHAUST HOOD TEMP. SENSOR AND LIGHT/ FAN SWITCH | STREIVOR | - | 120 | 1 | 20.0 | | | JBOX | | INTER-CONNECT WITH ITEM 018 EXHAUST HOOD CONTROL CABINET, SEE FSV-3 SHEET FOR ADDITIONAL INFORMATION AND DETAILS. |
| 050 | 1 | HOT FOOD WELLS (DROP-IN) | WELLS BLOOMFIELD | MOD300TDM | 208 | 1 | | 3.6 | | JBOX | 18" | INTERCONNECT THRU CONTROLS (BY ELECTRICAL DIVISION) |
| 051 | 1 | REFRIGERATED COLD PAN (DROP-IN) | WELLS BLOOMFIELD | RCP-400 | 120 | 1 | 6.5 | | | REC | 18" | |
| 052 | 1 | FOOD SHIELD W/ DISPLAY LIGHTS | BSI | ZG9930 | 120 | 1 | 0.3 | | | JBOX | 18" | (2 @ 120V AT 0.33AMPS EA.) 2 CONNECTIONS REQUIRED, INTER-CONNECT THRU CONTROLS (BY ELECTRICAL DIVISION) |
| 053 | 1 | CHILLED WATER DISPENSER W/ DRIP TROUGH | CRYSALLI | CBR-V1C | 120 | 1 | 14.9 | | | REC | 18" | |
| 056 | 1 | COFFEE MAKER | BUNN-O-MATIC | CWTF-TWIN-APS | | 1 | 26.0 | | | REC | 48" | (120-208V) 3 WIRE + GROUND; |
| 057 | 1 | ICED TEA BREWER | BUNN-O-MATIC | 41400.0000 | 120 | 1 | 14.0 | | | REC | 48" | |
| 058 | 1 | MOBILE UNDERCOUNTER REFRGERATOR | TRUE FOOD SERVICE EQUIPMENT, INC. | TUC-27-ADA-HC | 120 | 1 | 2.0 | | | REC | 18" | |
| 060 | 1 | REFRIGERATION RACK | OMNI | OTA1-AC-H-2-0-3-4 | 208 | 3 | 16.2 | | | DIR | | VERIFY LOCATION OF ROUGH-IN |

### CONVENIENCE OUTLET REQUIREMENTS

| ITEM | DESCRIPTION | VOLTS | PH | AMPS | ELE TYPE | AFF | ELECTRICAL COMMENTS |
|---|---|---|---|---|---|---|---|
| 900 | CONVENIENCE RECEPTACLE | 120 | 1 | 15.0 | REC | +18" | CONVENIENCE OUTLET STUB OUT WALL |
| 901 | CONVENIENCE RECEPTACLE | 120 | 1 | 15.0 | REC | +48" | CONVENIENCE OUTLET STUB OUT WALL |
| 902 | CONVENIENCE RECEPTACLE | 120 | 1 | 15.0 | REC | | STUB DOWN DROP CORD BY ELECTRICAL DIVISION |

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# The Chehalis Tribe Chehalis Elder Center

CHEHALIS, WA

**BID DOCUMENTS**

ISSUE DATE: April 16th, 2021

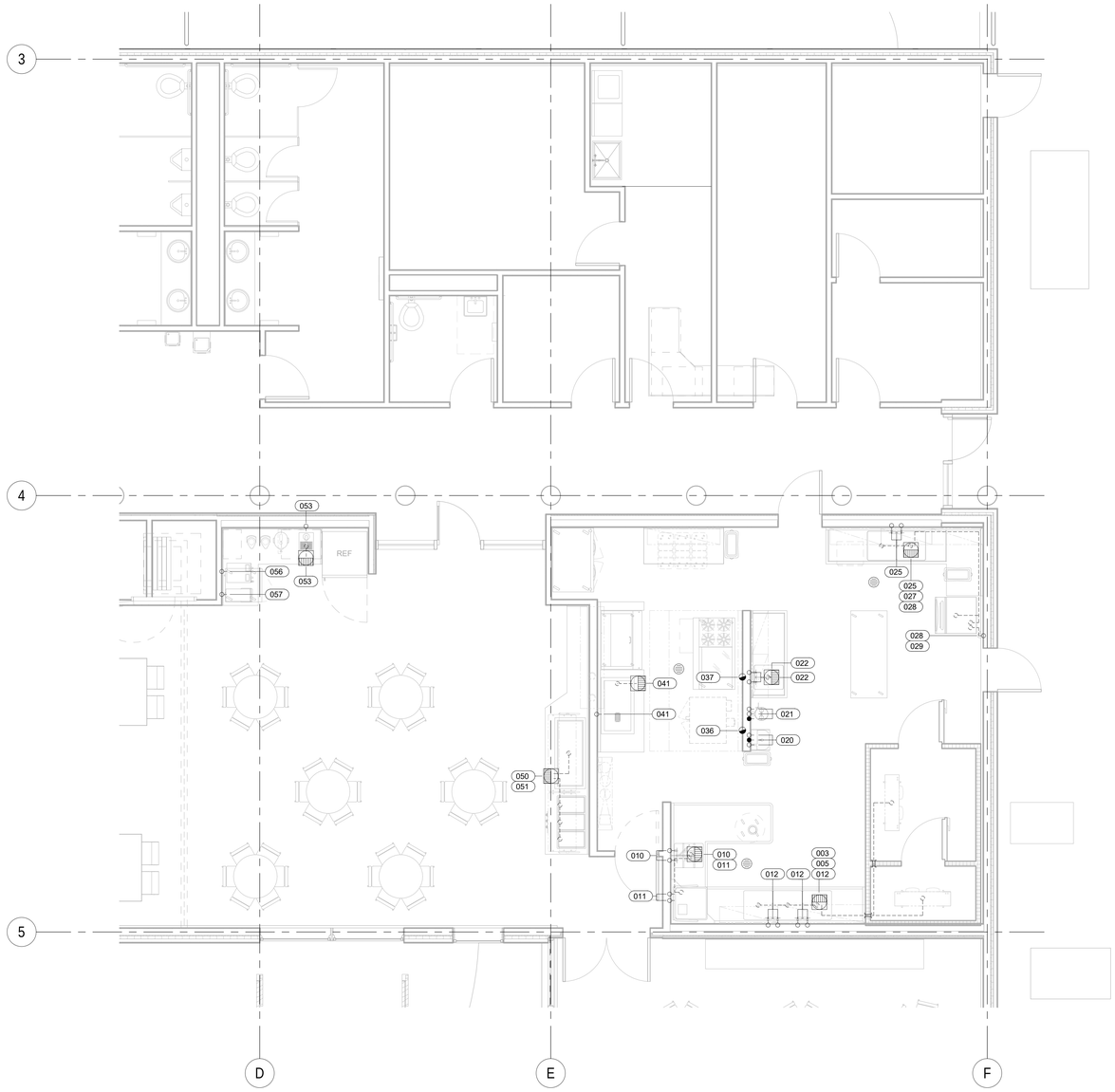
| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:

**ELECTRICAL ROUGH-INS PLAN**

SCALE: **As indicated**
DRAWN: **Author**
CHECKED: **Checker**
PROJECT NO: 0000000.00

SHEET: FS-2




## PLUMBING NOTES

1. PLUMBING PLANS SHOW ROUGH-IN POINTS AND SCHEDULED CONNECTIONS. KITCHEN EQUIPMENT CONTRACTOR WILL PROVIDE DIMENSIONED ROUGH-IN DRAWING FOR CONSTRUCTION.
2. WATER PRESSURE IN FOOD AND BEVERAGE AREAS SHOULD BE 50 PSIG (345 KPa) MAXIMUM. WATER PRESSURE AT DISHMACHINES, BOOSTER HEATERS, GLASS AND UTENSIL WASHERS TO BE 25 PSIG (172 KPa).
3. PLUMBING DIVISION SHALL FURNISH AND INSTALL ALL NECESSARY VALVES, TRAPS, TAIL PIECES, LINE STRAINERS, WATER PRESSURE REDUCING VALVES AND VACUUM BREAKERS AND CONNECT ALL WATER, FUEL GAS, STEAM AND WASTE LINES TO FOOD SERVICE AND BEVERAGE EQUIPMENT.
4. PLUMBING CONTRACTOR TO PROVIDE GAS SERVICES AT EQUIPMENT TO MAINTAIN AN 8" (203MM) WATER COLUMN. KITCHEN EQUIPMENT CONTRACTOR TO PROVIDE GAS PRESSURE REGULATORS AS REQUIRED BY CODE AND A.G.A. FOR INSTALLATION BY PLUMBING DIVISION INLINE BETWEEN BUILDING SERVICES AND EQUIPMENT.
5. PLUMBING DIVISION TO SUPPLY GAS SHUT OFF VALVE AT EACH EQUIPMENT CONNECTION AND INSTALL WITHIN EQUIPMENT SPREADERS OR CHASES FOR EASY ACCESSIBILITY.
6. MECHANICAL ENGINEER TO SIZE GAS ROUGH-IN FOR RANGE BATTERIES; SCHEDULES SHOW LOADS ONLY FOR EACH PIECE NOT THE TOTAL, LOOP GAS SERVICES WHEN PRACTICAL.
7. PLUMBING DIVISION SHALL INSTALL AND CONNECT ALL FAUCETS FURNISHED BY KEC.
8. PLUMBING DIVISION SHALL FURNISH AND INSTALL ALL INDIRECT SINK AND VENTILATOR WASTE LINES TO FLOOR SINKS.
9. PLUMBING DIVISION TO PROVIDE ADEQUATE CLEAN-OUT FOR DRAIN LINES.
10. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH AND INSTALL FIRE PROTECTION SYSTEM (INCLUDING FURNISHING SOLENOID SHUTOFF VALVES), PLUMBING DIVISION SHALL INSTALL SHUTOFF VALVE. VERIFY LOCATION WITH KEC.
11. FLOOR SINKS SHALL BE INSTALLED FLUSH WITH FINISH FLOOR OR PER LOCAL CODE WITH GRATE COVER AS INDICATED.
12. FLOOR DRAINS INDICATED ARE FOR FOOD AND BEVERAGE AREAS ONLY. ADDITIONAL GENERAL PURPOSE AREA DRAINS SHALL BE LOCATED BY THE PLUMBING ENGINEER/ ARCHITECT.
13. EYE/FACE WASH STATION SHALL MEET DOSH EMERGENCY WASHING REQUIREMENTS, AND ZZ358. 1 EMERGENCY EYE WASH AND SHOWER REQUIREMENTS. KITCHEN EQUIPMENT CONTRACTOR SHALL VERIFY UNIT MEETS WITH LOCAL JURISDICTION, CODES AND PROVIDE TRAINING. PLUMBING DIVISION SHALL PROVIDE THERMOSTATIC MIXING VALVE AND BACK FLOW PREVENTION TO MEET ALL REQUIREMENTS.

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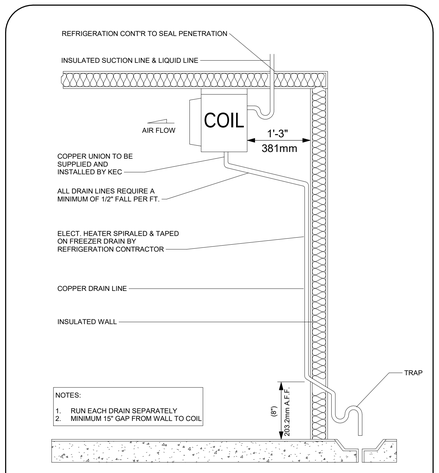


3 CONDENSATE DRAIN (TYPICAL)

### NOTE

KITCHEN EQUIPMENT CONTRACTOR TO VERIFY AND COORDINATE PROPER LOCATION AND SIZE OF GENERAL CONTRACTOR FURNISHED STRUCTURAL PENETRATIONS AND PLUMBING DIVISION FURNISHED SLEEVES THRU FLOOR.

### NOTE

ALL WALL MOUNT PLUMBING UTILITIES ARE TO BE FLUSH MOUNTED IN WALLS WITH NO EXPOSED PIPING SHOWING ON SURFACE OF WALLS. ARCHITECT TO PROVIDE MINIMUM WALL FURRING IF REQUIRED.

PLUMBING SCHEDULE

| ITEM | QTY | DESCRIPTION | MANUFACTURER | MODEL | HW SIZE | AFF | HW GPH | CW SIZE | AFF | WASTE TYPE | DIA | AFF | GAS MBTU | DIA | AFF | PLUMBING COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 003 | 1 | UNIT COOLER (COOLER) | OMNI | KLP107MA-S1D | | | | | | FS | 1" | | | | | |
| 005 | 1 | UNIT COOLER (FREEZER) | OMNI | KLP105LE-S2D | | | | | | FS | 1" | | | | | |
| 010 | 1 | SOILED DISHTABLE ASSEMBLY | | | 1/2" | 12" | 35 | 1/2" | 12" | FS | 1 1/2" | | | | | |
| 011 | 1 | DISHWASHER WITH BOOSTER HEATER (VENTLESS) | HOBART | AM15VLT-2 | 1/2" | 42" | 29.6 | 1/2" | 73" | FS | 1 1/2" | | | | | 140 DEGREE HOT WATER |
| 012 | 1 | CLEAN DISHTABLE W/ POT WASHING SINKS | CUSTOM FABRICATE | CUSTOM | 1/2" | 12" | 60 | 1/2" | 12" | FS | | | | | | (2 @ 1/2" H. & C.W. & 3 @ 2" WASTE) MANIFOLD DRAIN LINES |
| 020 | 1 | HAND SINK W/ SOAP AND TOWEL DISPENSER | ADVANCE TABCO | 7-PS-87 | 1/2" | 18" | 5 | 1/2" | 18" | DIR | 1 1/2" | 24" | | | | |
| 021 | 1 | EYE WASH STATION | T & S BRASS | EW-7360B | 1/2" | 24" | 15 | 1/2" | 24" | DIR | 1 1/4" | 18" | | | | THERMOSTATIC MIXING VALVE AND BACK FLOW PREVENTION (BY PLUMBING DIVISION) |
| 022 | 1 | WORKTABLE WITH SINK | CUSTOM FABRICATE | CUSTOM | 1/2" | 12" | 10 | 1/2" | 12" | FS | 1/2" | | | | | |
| 025 | 1 | WORKTABLE WITH SINKS AND DRAWER | CUSTOM FABRICATE | CUSTOM | 1/2" | 12" | 30 | 1/2" | 12" | FS | | | | | | (2 @ 1/2" H. & C.W. AT 3 @ 1 1/2" WASTE) |
| 027 | 1 | ICE BIN (365 LBS.) | MANITOWOC ICE | D-400 | | | | | | FS | 3/4" | | | | | |
| 028 | 1 | ICE MAKER (310 LBS.) | MANITOWOC ICE | IYT-0300A | | | | 1/2" | | FS | 1/2" | | | | | RUN C.W. FROM ITEM 029, WATER FILTER |
| 029 | 1 | WATER FILTER | OPTIPURE | QTI-1 | | | | 1/2" | 72" | | | | | | | RUN C.W. TO ITEM 028, ICE MAKER |
| 033 | 1 | MOBILE REACH-IN REFRIGERATOR | TRUE | STR2R-2S-HC | | | | | | | | | | | | CONDENSATE EVAPORATOR |
| 036 | 1 | CONVECTION OVEN W/ STAND (EXISTING/ RELOCATE) | SOUTHBEND | SLGS/12SC | | | | | | | | | 72 | 3/4" | 30" | PROPANE GAS, VERIFY ALL PLUMBING REQUIREMENTS WITH EXISTING EQUIPMENT. PROVIDE QUICK DISCONNECT |
| 037 | 1 | MOBILE (4) OB RANGE WITH GRIDDLE AND OVEN | GARLAND | G60-4G36RS | | | | | | | | | 224 | 1" | 24" | PROPANE GAS, PROVIDE QUICK DISCONNECT |
| 041 | 1 | REFRIGERATED HOT/COLD PANS (DROP-IN) | WELLS BLOOMFIELD | HRCP-7300 | | | | 1/2" | 18" | FS | 1" | | | | | |
| 050 | 1 | HOT FOOD WELLS (DROP-IN) | WELLS BLOOMFIELD | MOD300TDM | | | | | | FS | 1/2" | | | | | (3 @ 1/2" WASTE) MANIFOLD DRAIN LINES |
| 051 | 1 | REFRIGERATED COLD PAN (DROP-IN) | WELLS BLOOMFIELD | RCP-400 | | | | | | FS | 1" | | | | | |
| 053 | 1 | CHILLED WATER DISPENSER W/ DRIP TROUGH | CRYSALLI | CBR-V1C | | | | 1/2" | 18" | FS | 1/2" | | | | | RUN THRU FILTER |
| 056 | 1 | COFFEE MAKER | BUNN-O-MATIC | CWTF-TWIN-APS | | | | 1/2" | 48" | | | | | | | RUN THRU FILTER |
| 057 | 1 | ICED TEA BREWER | BUNN-O-MATIC | 41400.0000 | | | | 1/2" | 48" | | | | | | | RUN THRU FILTER |
| 058 | 1 | MOBILE UNDERCOUNTER REFRGERATOR | TRUE FOOD SERVICE EQUIPMENT, INC. | TUC-27-ADA-HC | | | | | | | | | | | | CONDENSATE EVAPORATOR |

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# The Chehalis Tribe
# Chehalis Elder Center

CHEHALIS, WA

THE CHEHALIS TRIBE

## BID DOCUMENTS

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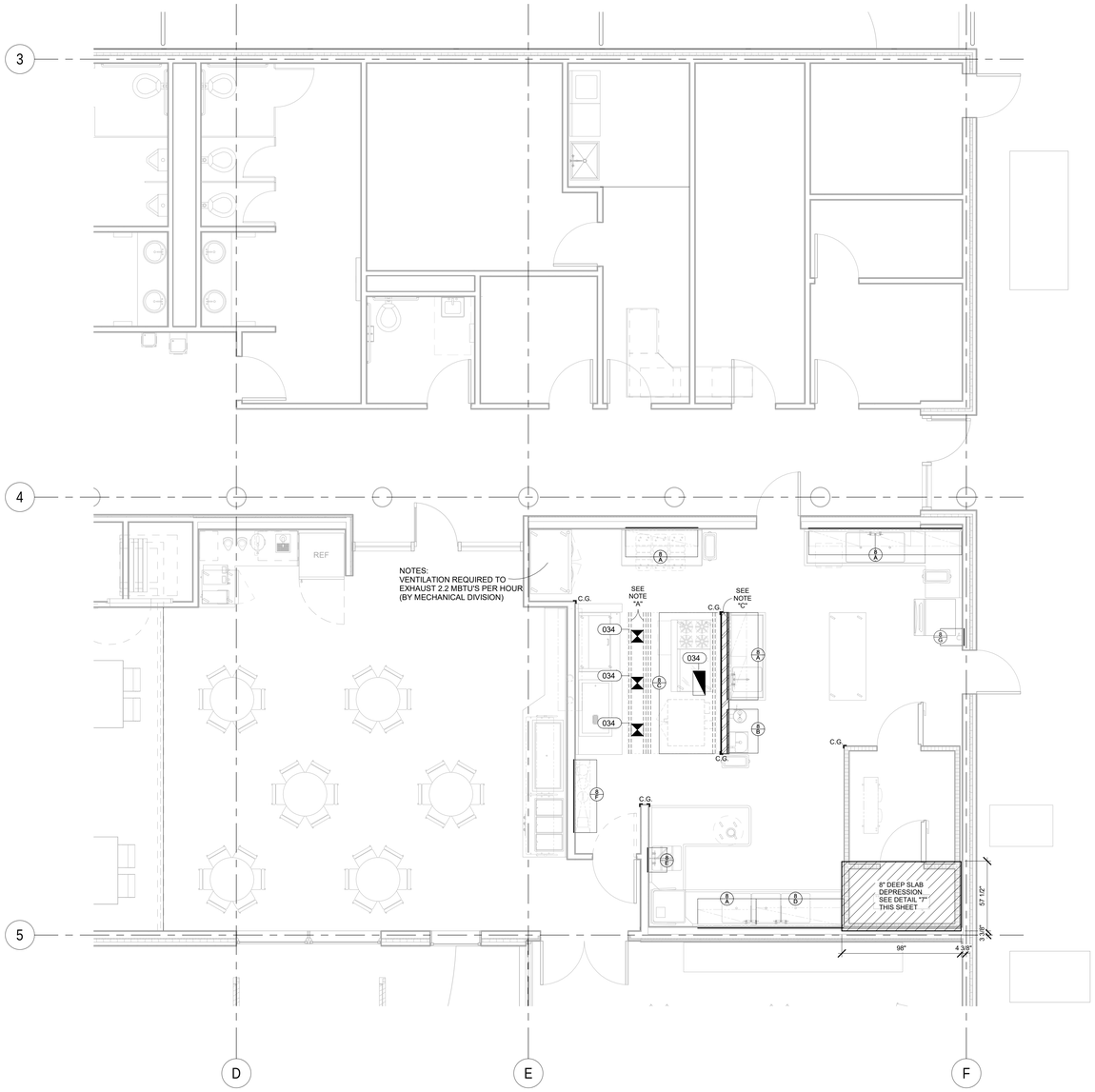
CONTENTS:

## PLUMBING ROUGH-INS PLAN

SCALE: As indicated
DRAWN: Author
CHECKED: Checker
PROJECT NO: 0000000.00

SHEET: FS-3




| VENTILATION SCHEDULE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ITEM | QTY | DESCRIPTION | EXH. WIDTH | EXH. DEPTH | CFM | S.P. | SUP. WIDTH | SUP. DEPTH | CFM | S.P. | VENTILATION COMMENTS |
| 033 | 1 | MOBILE REACH-IN REFRIGERATOR | | | | | | | | | VENTILATION REQUIRED TO EXHAUST 2.2 MBTU'S PER HOUR (BY MECHANICAL DIVISION) |
| 034 | 1 | EXHAUST HOOD W/ MAKE-UP AIR (TYPE 1) | 10" | 20" | 2030 | 0.63 | | | | | (3 @ 10"X10" SUPPLY AT 541 CFM EA. AND 0.40" S.P.) SEE FSV-1 SHEETS FOR ADDITONAL INFORMATION AND DETAILS |

VENTILATION SYMBOLS

- CORNER GUARD
- EXHAUST DUCT CONNECTION
- MAKE-UP AIR DUCT CONNECTION
- EXHAUST DUCT TO OUTSIDE
- CEILING EXHAUST GRILL
- CONDENSATE HOOD

NOTES

A. STRUCTURAL "Z" SUPPORT
(GENERAL CONTRACTOR TO FURNISH AND INSTALL 3"X3"X1/4" (75X75X6) Z-BAR TO UNDERSIDE OF STRUCTURAL SLAB ABOVE- COORDINATE INSTALLATION WITH KITCHEN EQUIPMENT CONTRACTOR)

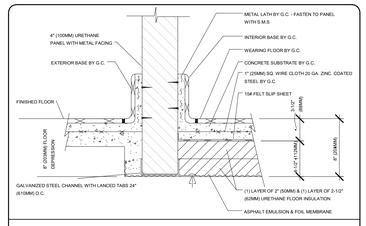
B. WALL BACKING

C. NON-COMBUSTIBLE WALL

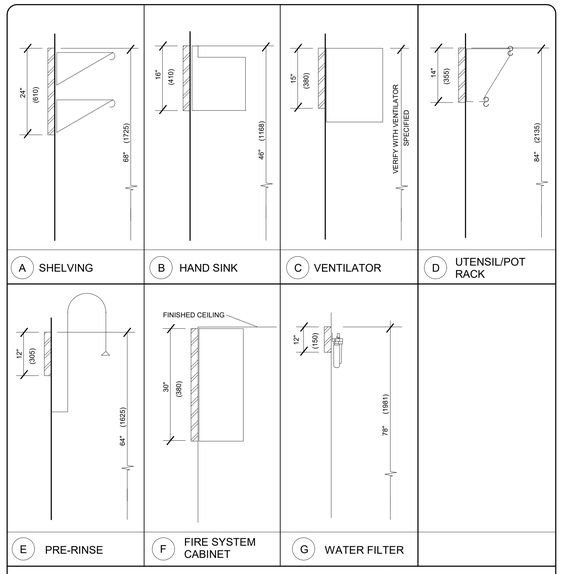
D. 6" (152MM) CONCRETE CURB

E. FLOOR DEPRESSION

CG. CORNER GUARD BY G.C.




7 COLD STORAGE ROOM - 8" (203MM) DEPRESSION




8 WALL BACKING DETAIL

NOTES:
1. ALL DIMENSIONS ARE TO FINISHED FLOOR.
2. ALL WALL BACKING TO BE 14GA STEEL PLATE SECURELY ATTACHED TO STUDS.

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CHEHALIS, WA

THE CHEHALIS TRIBE

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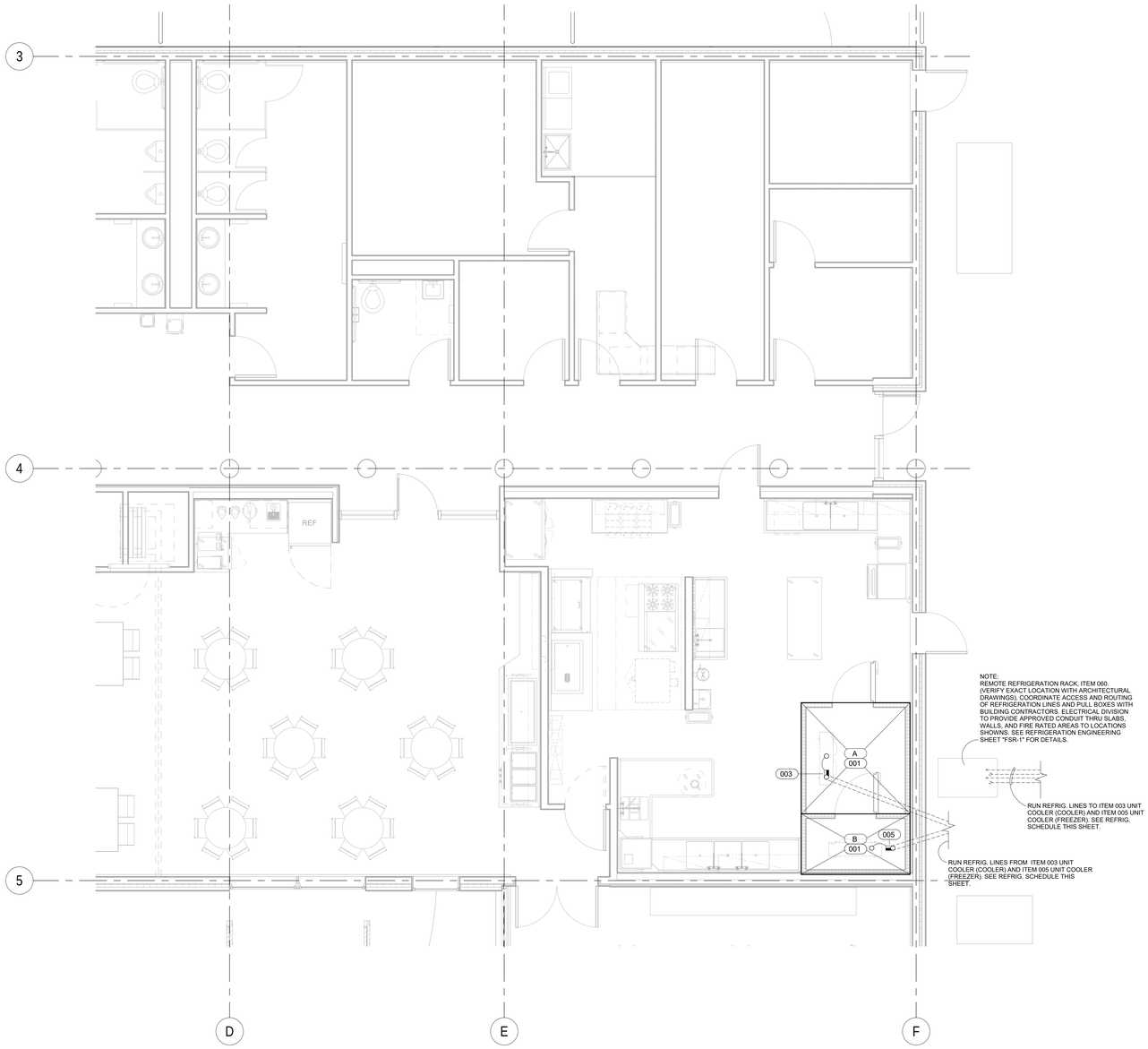
CONTENTS:

**BUILDING WORKS PLAN**

SCALE: **As indicated**
DRAWN: **Author**
CHECKED: **Checker**
PROJECT NO: 0000000.00

SHEET: FS-4




## SYMBOLS

- CONDUIT LINE RUN
- REFRIGERATION STUB AS INDICATED
- REFRIGERATION LINE IN 6"X6" (152MMX152MM) PULL BOX
- REFRIGERATION LINES IN 12"X12" (305MMX305MM) PULL BOX
- CONDUIT STUB AS INDICATED
- REFRIGERATION LINE RUN THRU FIXTURE
- ITEM — REFRIGERATED BASE

## REFRIGERATION SCHEDULE

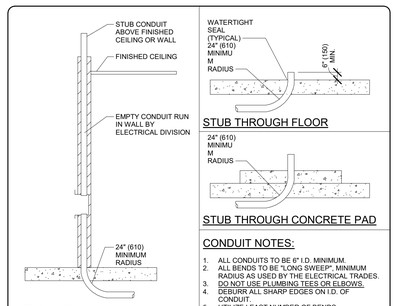
| | |
|---|---|
| 003 | REFRIGERATION LINES, RUN FROM ITEM 060 REMOTE REFRIG. RACK, (VERIFY EXACT LOCATION) RUN FROM ABOVE AND STUB DOWN, CONNECT AT UNIT COOLER (COOLER) SYSTEM NO. "A" COOLER. VERIFY WITH REFRIGERATION ENGINEERING SCHEDULE. |
| 005 | REFRIGERATION LINES, RUN FROM ITEM 060 REMOTE REFRIG. RACK, (VERIFY EXACT LOCATION) RUN FROM ABOVE AND STUB DOWN, CONNECT AT UNIT COOLER (FREEZER) SYSTEM NO. "B" FREEZER. VERIFY WITH REFRIGERATION ENGINEERING SCHEDULE. |

## NOTE

WHERE REFRIGERATION LINES PENETRATE PLENUMS AND FIRE RATED AREAS, LINES ARE TO BE HOSED IN CONDUIT OR INSULLATED AS PER APPLICABLE CODES. CONDUIT BY ELECTRICAL DIVISION AND INSULATION BY KITCHEN EQUIPMENT CONTRACTOR.

## NOTE

ALL CONDUIT RUNS INDICATED FOR REFRIGERATION DRINK SYSTEM LINES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL DIVISION. CONDUIT SHALL HAVE 24" (610MM) MINIMUM RADIUS BENDS.




## CONDUIT NOTES:

1. ALL CONDUITS TO BE 6" I.D. MINIMUM.
2. ALL BENDS TO BE "LONG SWEEP". MINIMUM RADIUS AS USED BY THE ELECTRICAL TRADES.
3. DO NOT USE PLUMBING TEES OR ELBOWS.
4. DEBURR ALL SHARP EDGES ON I.D. OF CONDUIT.
5. UTILIZE LEAST NUMBER OF BENDS.
6. INSTALL PULL BOXES AS REQUIRED
7. CAP ENDS DURING CONSTRUCTION.
8. 18" MINIMUM CENTERS ON CONTINUING STUB-UPS.

4 CONDUIT RUN DETAILS

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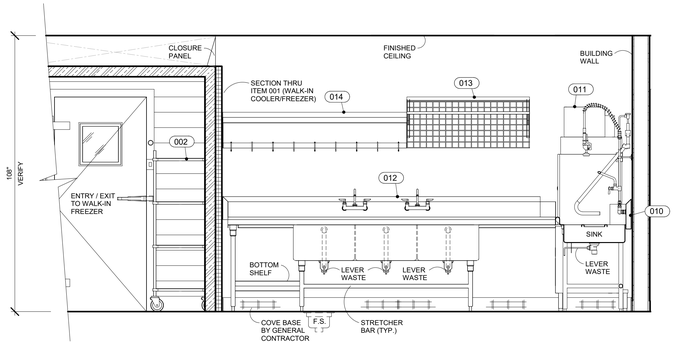
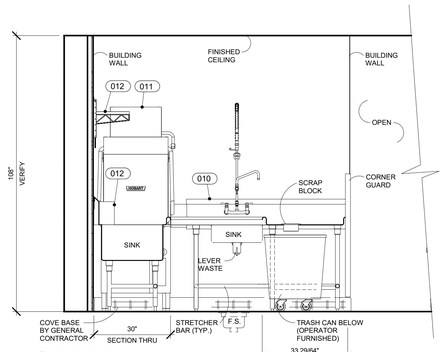
**REFRIG. ROUGH-INS PLAN**

| | |
|---|---|
| SCALE: | As indicated |
| DRAWN: | Author |
| CHECKED: | Checker |
| PROJECT NO: | 0000000.00 |

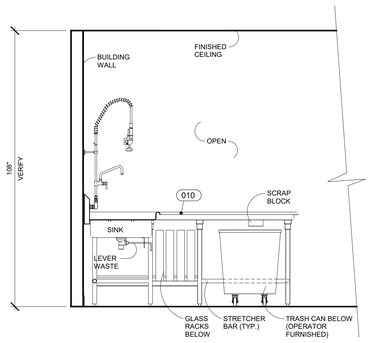
SHEET: FS-5




A ELEVATION
FS-1 / SCALE: 1/2" = 1'-0"




B ELEVATION
FS-1 / SCALE: 1/2" = 1'-0"




C ELEVATION
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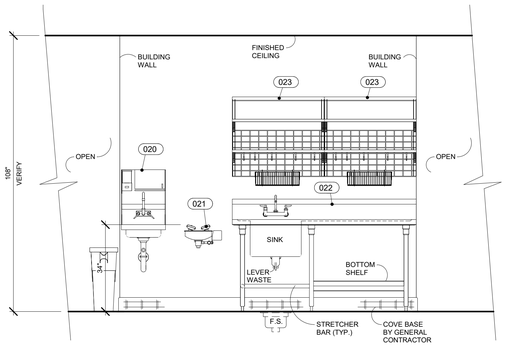


D ELEVATION
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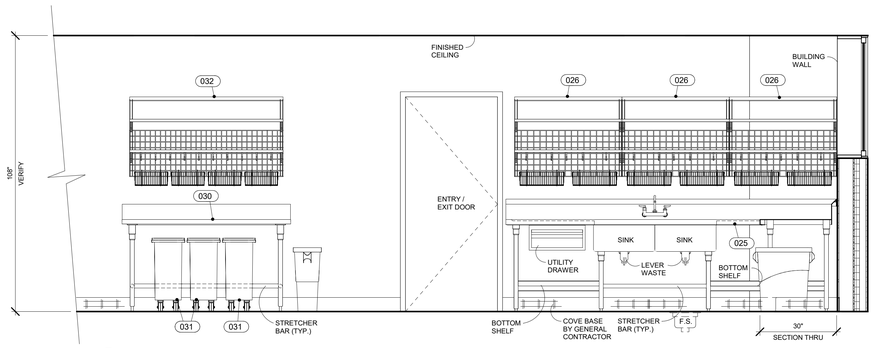
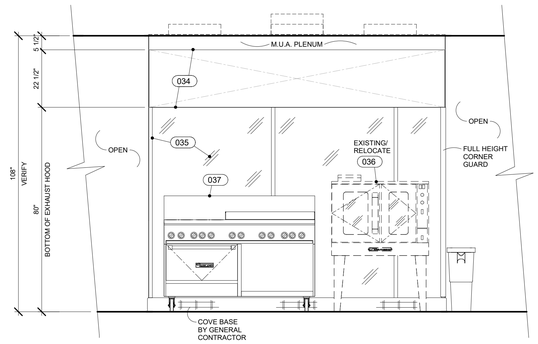



E ELEVATION
FS-1 / SCALE: 1/2" = 1'-0"

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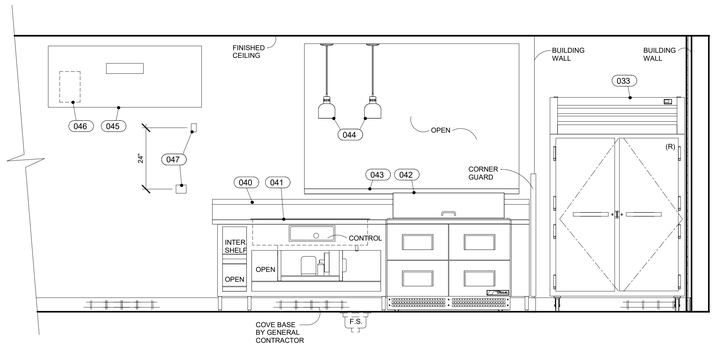
FS-1 / SCALE: 1/2" = 1'-0"

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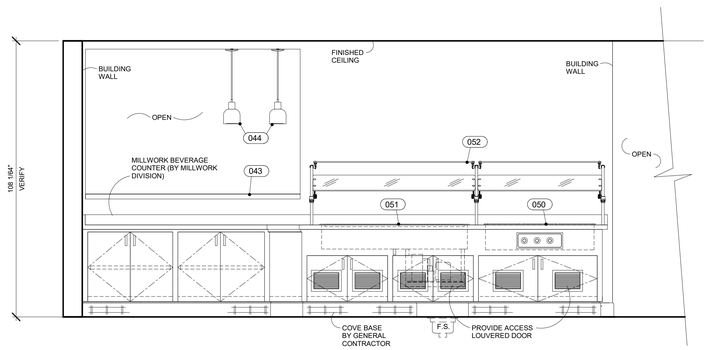
FS-1 / SCALE: 1/2" = 1'-0"

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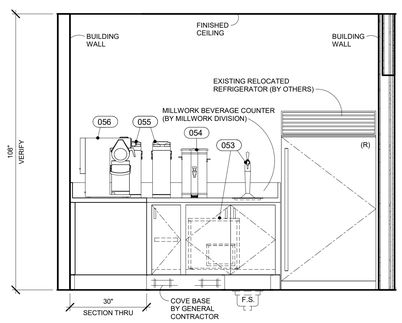
FS-1 / SCALE: 1/2" = 1'-0"




J ELEVATION
FS-1 / SCALE: 1/2" = 1'-0"

EQUIPMENT SCHEDULE

| ITEM | QTY | DESCRIPTION | MANUFACTURER | MODEL |
|---|---|---|---|---|
| 001 | 1 | WALK-IN COOLER / FREEZER ASSEMBLY | AMERICAN PANEL | CUSTOM |
| 002 | 4 | MOBILE COOLER SHELVING | CUSTOM FABRICATE | CUSTOM |
| 003 | 1 | UNIT COOLER (COOLER) | OMNI | KLP107MA-S1D |
| 004 | 3 | MOBILE FREEZER SHELVING | CUSTOM FABRICATE | CUSTOM |
| 005 | 1 | UNIT COOLER (FREEZER) | OMNI | KLP105LE-S2D |
| 006 | 1 | SPARE NUMBER | | |
| 007 | 1 | SPARE NUMBER | | |
| 008 | 1 | SPARE NUMBER | | |
| 009 | 1 | SPARE NUMBER | | |
| 010 | 1 | SOILED DISHTABLE ASSEMBLY | | |
| 011 | 1 | DISHWASHER WITH BOOSTER HEATER (VENTLESS) | HOBART | AM15VLT-2 |
| 012 | 1 | CLEAN DISHTABLE W/ POT WASHING SINKS | CUSTOM FABRICATE | CUSTOM |
| 013 | 1 | WALL SHELVING | METRO | SMARTWALL G3 |
| 014 | 1 | UTENSIL RACK W/ SHELF | CUSTOM FABRICATE | CUSTOM |
| 015 | 2 | MOBILE POT SHELVING | CUSTOM FABRICATE | CUSTOM |
| 016 | 1 | SPARE NUMBER | | |
| 017 | 1 | SPARE NUMBER | | |
| 018 | 1 | SPARE NUMBER | | |
| 019 | 1 | SPARE NUMBER | | |
| 020 | 1 | HAND SINK W/ SOAP AND TOWEL DISPENSER | ADVANCE TABCO | 7-PS-87 |
| 021 | 1 | EYE WASH STATION | T & S BRASS | EW-7360B |
| 022 | 1 | WORKTABLE WITH SINK | CUSTOM FABRICATE | CUSTOM |
| 023 | 2 | WALL SHELVING | METRO | SMARTWALL G3 |
| 024 | 1 | MOBILE WORTABLE | CUSTOM FABRICATE | CUSTOM |
| 025 | 1 | WORKTABLE WITH SINKS AND DRAWER | CUSTOM FABRICATE | CUSTOM |
| 026 | 3 | WALL SHELVING | METRO | SMARTWALL G3 |
| 027 | 1 | ICE BIN (365 LBS.) | MANITOWOC ICE | D-400 |
| 028 | 1 | ICE MAKER (310 LBS.) | MANITOWOC ICE | IYT-0300A |
| 029 | 1 | WATER FILTER | OPTIPURE | QTI-1 |
| 030 | 1 | WORKTABLE WITH MAPLE TOP | CUSTOM FABRICATE | CUSTOM |
| 031 | 3 | MOBILE INGREDIENT BINS | CAMBRO | IBSF27 |
| 032 | 1 | WALL SHELVING | METRO | SMARTWALL G3 |
| 033 | 1 | MOBILE REACH-IN REFRIGERATOR | TRUE | STR2R-2S-HC |
| 034 | 1 | EXHAUST HOOD W/ MAKE-UP AIR (TYPE 1) | STREIVOR | - |
| 035 | 1 | STAINLESS STEEL WALL FLASHING | CUSTOM FABRICATE | CUSTOM |
| 036 | 1 | CONVECTION OVEN W/ STAND (EXISTING/ RELOCATE) | SOUTHBEND | SLGS/12SC |
| 037 | 1 | MOBILE (4) OB RANGE WITH GRIDDLE AND OVEN | GARLAND | G60-4G36RS |
| 038 | 1 | SPARE NUMBER | | |
| 039 | 1 | SPARE NUMBER | | |
| 040 | 1 | CHEF'S COUNTER | CUSTOM FABRICATE | CUSTOM |
| 041 | 1 | REFRIGERATED HOT/COLD PANS (DROP-IN) | WELLS BLOOMFIELD | HRCP-7300 |
| 042 | 1 | MOBILE REFRIGERATED WORKTABLE | TRUE | TFP-48-18M-D-4 |
| 043 | 1 | STAINLESS STEEL PASS SHELF | CUSTOM FABRICATE | CUSTOM |
| 044 | 2 | HEAT LAMP | HATCO | DL-700 |
| 045 | 1 | FIRE SUPPRESSION SYSTEM | STREIVOR | R-102 WET |
| 046 | 1 | EXHAUST HOOD CONTROL CABINET | STREIVOR | - |
| 047 | 1 | EXHAUST HOOD TEMP. SENSOR AND LIGHT/ FAN SWITCH | STREIVOR | - |
| 048 | 1 | SPARE NUMBER | | |
| 049 | 1 | SPARE NUMBER | | |
| 050 | 1 | HOT FOOD WELLS (DROP-IN) | WELLS BLOOMFIELD | MOD300TDM |
| 051 | 1 | REFRIGERATED COLD PAN (DROP-IN) | WELLS BLOOMFIELD | RCP-400 |
| 052 | 1 | FOOD SHIELD W/ DISPLAY LIGHTS | BSI | ZG9930 |
| 053 | 1 | CHILLED WATER DISPENSER W/ DRIP TROUGH | CRYSALLI | CBR-V1C |
| 054 | 1 | TEA DISPENSER | BUNN | 34100.0002 |
| 055 | 2 | COFFEE AIRPOTS | BUNN | 13041.0001 |
| 056 | 1 | COFFEE MAKER | BUNN-O-MATIC | CWTF-TWIN-APS |
| 057 | 1 | ICED TEA BREWER | BUNN-O-MATIC | 41400.0000 |
| 058 | 1 | MOBILE UNDERCOUNTER REFRGERATOR | TRUE FOOD SERVICE EQUIPMENT, INC. | TUC-27-ADA-HC |
| 059 | 1 | SPARE NUMBER | | |
| 060 | 1 | REFRIGERATION RACK | OMNI | OTA1-AC-H-2-0-3-4 |

THIS DRAWING IS INTENDED FOR INFORMATION PURPOSES ONLY FOR USE BY THE ARCHITECT AND ENGINEERS TO PREPARE THEIR DOCUMENTS. SEE APPROVED KITCHEN EQUIPMENT CONTRACTOR ROUGH-IN DRAWINGS FOR CONSTRUCTION.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PUYALLUP, WASHINGTON 98373
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# The Chehalis Tribe Chehalis Elder Center

CHEHALIS, WA

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: April 16th, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

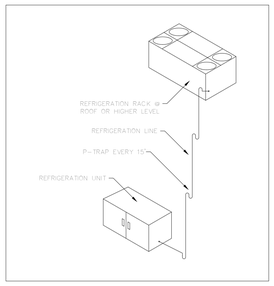
CONTENTS:

**ELEVATIONS AND DETAILS**

SCALE: 1/2" = 1'-0"
DRAWN: Author
CHECKED: Checker
PROJECT NO: 0000000.00

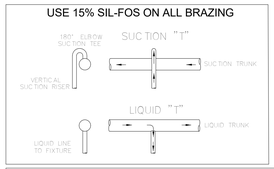
SHEET: FS-6

## TYPICAL PIPING FOR VERTICAL RISERS




## TYPICAL BRANCH PIPING FOR TEE'S

USE 15% SIL-FOS ON ALL BRAZING




## GENERAL NOTES

### GENERAL

1. CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND COORDINATE WITH OMNI TEMP REFRIGERATION.
2. REFER TO ALL NOTES ON THIS PLAN. ROUTING OF REFRIGERATION TUBING IS FURNISHED AS A GUIDE. IT WILL BE NECESSARY TO COPE WITH CONSTRUCTION CONDITIONS.
3. ALL CORED HOLES REQUIRED ON JOB ARE TO BE PROVIDED BY GENERAL CONTRACTOR.
4. ALL CORED HOLES SHALL BE FIREPROOFED AS REQUIRED BY LOCAL CODES BY GENERAL CONTRACTOR.
5. MINIMUM OF 30" CLEARANCE FOR ACCESSIBILITY AROUND COMPRESSOR RACK NEEDED FOR SERVICEABILITY. MINIMUM OF 36" CLEARANCE IN FRONT OF ELECTRICAL PANEL.
6. AFTER INSTALLATION OF REFRIGERATION LINES, GENERAL CONTRACTOR SHALL BACKFILL THE PITCH POCKET AS REQUIRED.

### REFRIGERATION

NOTE: ALL COILS SUPPLIED WITH EXPANSION VALVES, THERMOSTATS AND SOLENOID VALVES MOUNTED AND PRE-WIRED IN EACH COIL SUPPLIED BY OMNI TEMP REFRIGERATION (UNLESS OTHERWISE NOTED ON PRINTS).

1. ALL COPPER TUBING TO BE REFRIGERANT GRADE ACØR TYPE "L" (CLEANED & DEHYDRATED). JOINTS FOR ALL HARD COPPER TUBING SHALL BE SWEAT TYPE FITTINGS. SUCTION LINES TO BE INSULATED WITH 3/4" ARMAFLEX (25/50) WALL INSULATION FOR COOLERS AND 1" ARMAFLEX (25/50) WALL INSULATION FOR FREEZERS.
2. ALL SUCTION LINES WITH 10FT. OR MORE VERTICAL RISE ARE TO BE TRAPPED FOR PROPER OIL RETURN.
3. FOR STEEL TO COPPER CONNECTIONS, USE SILVER SOLDER. FOR COPPER TO COPPER CONNECTIONS, USE SIL-FOS. (SOFT SOLDER SHALL NOT BE USED FOR REFRIGERANT PIPING).
4. ALL ROUGH-IN PIPING SHALL BE PRESSURE TESTED WITH DRY NITROGEN AT 300 PSI FOR AND HOLD FOR A MINIMUM OF 48 HOURS. AFTER ALL FINAL PIPING CONNECTIONS OF COMPRESSOR RACK AND EVAPORATOR COILS HAVE BEEN COMPLETED, PRESSURIZE WITH DRY NITROGEN TO 125 PSI FOR A MINIMUM OF 24 HOURS FOR FINAL PRESSURE TEST.
5. ALL COMPLETED REFRIGERATION SYSTEMS MUST BE EVACUATED TO 500 MICRONS OR LESS WITH VACUUM PUMP.
6. FURNISH AND INSTALL A 6 WATT PER 1FT. 230V. HEATER TAPE ON WALK-IN FREEZER DRAINS.
7. ALL COILS SUPPLIED BY OTHERS MUST HAVE EXPANSION VALVES COMPATIBLE WITH THE REFRIGERANT USED ON EACH SYSTEM.
8. ALL FIELD PIPING SUPPORTS ARE TO HAVE PLASTIC BUSHINGS BETWEEN CLAMPS AND PIPING, NO COPPER TO STEEL CONTACT PERMITTED.
9. OMNI TEMP NOT RESPONSIBLE FOR FIELD WIRING.

SAFETY CAUTION: EACH SYSTEM AND EVAPORATOR IS SHIPPED UNDER NITROGEN PRESSURE. USE CAUTION AND EXERCISE SAFETY AT ALL TIMES WHEN CUTTING LINES ON EVAPORATORS AND REFRIGERATION RACK.

### ELECTRICAL

1. ELECTRICAL CONTRACTOR (DIVISION 16) IS TO PROVIDE POWER FOR REFRIGERATION RACK AND ALL COILS. ELECTRICAL CONNECTION REQUIRED FOR RACK CONTROL PANEL AND DEFROST SYSTEMS AS PER THE WIRING DIAGRAM.
2. ELECTRICAL CONTRACTOR (DIVISION 16) TO PROVIDE 5-WIRE COLOR CODED SERVICE FROM THE TIMECLOCKS TO THE EVAPORATOR COILS. TIMECLOCKS TO POWER COILS IN THE FIXTURE FOR AUTOMATIC DEFROST, UNLESS THE BLUEPRINT INDICATES OTHERWISE.
3. ALL ELECTRICAL WIRES AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE WIRING DIAGRAM AND LOCAL CODES.
4. ELECTRICAL CONTRACTOR (DIVISION 16) TO PROVIDE ANY DISCONNECT SWITCH NEEDED BY LOCAL CODES.
5. FOR F.W.I. ITEMS, THERMOSTAT AND SOLENOID WIRED TO COIL BY FIELD ELECTRICIAN.
6. FIELD ELECTRICIAN TO CONNECT COPPER ELECTRICAL LINES TO RACK SYSTEM.

### PLUMBING

1. PLUMBING CONTRACTOR (DIVISION 15) TO PROVIDE HARD ACØR OR TYPE "L" COPPER CONDENSATE DRAIN LINES FOR WALK-IN FREEZERS AND REFRIGERATORS. PITCH TO BE MINIMUM OF 1/2" PER FOOT OF RUN IN FREEZERS. DRAIN LINES IN FREEZERS MUST BE INSULATED TO PREVENT FREEZING. DRAIN LINES IN REFRIGERATORS MUST BE TRAPPED TO PREVENT LOSS OF WARM AIR. PROVIDE INDIVIDUAL DRAIN LINES FOR EACH EVAPORATOR UNLESS OTHERWISE INDICATED.
2. PLUMBING CONTRACTOR (DIVISION 15) TO VERIFY THE METHOD USED AND LOCATION FOR FIXTURE DRAINS. WHEN REQUIRED, INSTALLATION OF DRAIN LINES IN WALL SHOULD BE DONE BEFORE THE WALL IS CLOSED OFF.

## REMOTE REFRIGERATION EQUIPMENT SCHEDULE

OmniTeam, Inc.
Refrigeration Products
9300 Hall Road
Downey, California 90241
(800) 423-9660 (Toll-Free)
(562) 862-7466 (Fax)

Project Name: Chehalis Tribe Elder Center
Rack Item Number: 060
Project Location: Chehalis, WA
Project Notes: Initial Design Release
Consultant Firm: Clevenger Associates
Consultant: Tim McDougald
Consultant Representative: Schulz Associates

OmniTeam Model: OTA1-AC-H-2-0-3-4
Equipment: Multi-Compressor Rack
Condenser Type: Air-Cooled
Size of Rack Frame: 46"L x 34"W x 33"H
Weight of Rack: 510 Lbs.
Weight of Coil(s): 100 Lbs.

Power Supply: 208-230V/3Ph/60Hz
Connected Load: 16.2 Amps
Minimum Ampacity: 18.1 Amps
Max Overload Size: 30.0 Amps

Proposal #: PXXXXXXX (Submittals w/ PO or LOI)
Design #: D2010004
(REVISED) Date: 10/19/20
Designed By: Sean Green

| FIXTURE INFORMATION | | | | | | | COMPRESSOR INFORMATION | | | | | | | COIL INFORMATION | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ITEM NUMBER | SYSTEM ID | FIXTURE DESCRIPTION | FIXTURE MBT/HR | FIXTURE TEMP | SUCTION TEMP | REFRIGERANT | COMPRESSOR MODEL | COMP HORSEPOWER | COMPRESSOR FLA | COMPRESSOR LRA | COMP VOLTAGE/PH | COMP MBT/HR CAP | TYPE OF DEFROST | QUANTITY | COIL MODEL | EACH FAN AMPS | TOTAL FAN AMPS | FAN VOLTAGE/PH | EACH HEATER AMPS | TOTAL HEATER AMPS | HEATER VOLTAGE/PH | SUPPLIED BY OTHER | SUPPLIED BY OMNI | SYSTEM OPTIONS |
| 003 | A | Walk-In Cooler | 6.7 | 35 | 25 | 448a | RST70C1E-PFV | 1.00 | 6.9 | 46.0 | 208/1 | 8.2 | D | 1 | KLP107MA-S1D | 1.0 | 1.0 | 115/1 | | | | | X | SDS/ESP+ |
| 005 | B | Walk-In Freezer | 4.8 | -10 | -20 | 448a | AVA2496ZXT | 2.50 | 7.4 | 65.1 | 208/3 | 7.2 | D | 1 | KLP105LE-S2D | 0.6 | 0.6 | 208/1 | 4.6 | 4.6 | 208/1 | | X | SDS/ESP+ |

| RACK FEATURES | RACK FEATURES ELECTRICAL INFORMATION | | | |
|---|---|---|---|---|
| 1-Condenser Fan Motor | 0.25 | 1.9 | 208/1 | |

**Rack Design Notes:**

- A voltage variation of +/- 10% of nameplate utilization voltage is acceptable.
- Type of defrost for the systems are: "A" (off-cycle) air defrost, "E" electric defrost, "G" gas defrost.
- Each (compressor) system is supplied with a crankcase heater and head pressure controls factory installed.
- Low temperature (compressor) system(s) are supplied with suction line accumulator factory installed.
- All compressors and coated condensers are sized to operate at an air ambient of 95°F.
- All evaporator coils supplied by Omni with matching thermostats (1stat), solenoid & expansion valves along with "EC" motors (WI's only) factory installed.
- Walk-in coil(s) supplied with "SmartSpeed" for low energy consumption (savings).
- Electrical contractor to provide power for medium and low temperature evaporator coils. Power from building. Provide separate power source for each evaporator.
- Walk-In(s) with 'Electric Defrost' no longer requires inter-connecting wire to the rack, a direct 208-volt power source is needed.
- Refrigeration design is based on a maximum line run of 100' for (each system) liquid and suction lines. This includes a vertical allowance of 45'.
- The information disclosed herein was originated by and is the property of OmniTeam Inc. and except for rights expressly granted to the customer, OmniTeam Inc. reserves all patent, property, design, use, sale, manufacturing and reproduction rights thereto.

**Kitchen Equipment Contractor (or his Refrigeration Contractor) Notes:**

- It is the installing contractors responsibility to follow all applicable codes & current refrigeration industry standards and practices when determining line sizes, installation and start-up of OmniTeam equipment.

**WARNING NOTICE:**

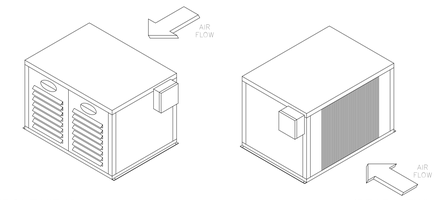
1) Refrigeration installer must have nitrogen flowing through all pipes during all brazing.
2) OmniTeam, Inc.will not pay for any damage in the solenoid(s) or expansion valve(s), caused by scale in the pipe.

## OMNI TEMP REFRIGERATION RACK

ETL LISTED
CONFORMS TO UL STD 1995

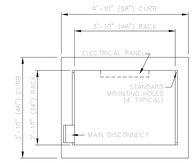
| RACK OVERALL DIMENSIONS | | |
|---|---|---|
| LENGTH (INCHES) | WIDTH (INCHES) | HEIGHT (INCHES) |
| 52 | 34 | 33 |

MODEL: OTA1-AC-H

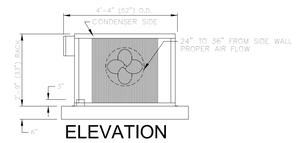



(FRONT VIEW) (REAR VIEW)

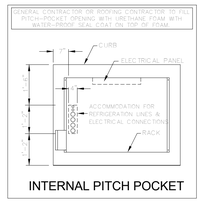
ISOMETRIC



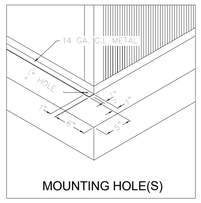

PLAN VIEW



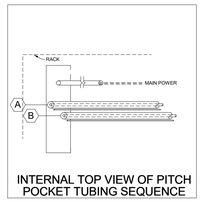

ELEVATION



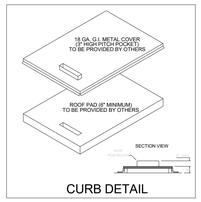

INTERNAL PITCH POCKET




MOUNTING HOLE(S)




INTERNAL TOP VIEW OF PITCH POCKET TUBING SEQUENCE




CURB DETAIL

THIS PLAN IS PRIMARILY A GENERAL ARRANGEMENT OF EQUIPMENT FOR THE CONVENIENCE OF CONTRACTORS AND IS MADE FROM AVAILABLE INFORMATION, BUT MEASUREMENTS ARE TO BE VERIFIED ON THE JOB. PLUMBING, ELECTRICAL, REFRIGERATION, AND VENT OUTLETS HAVE BEEN LOCATED AS ACCURATELY AS POSSIBLE AND ARE INTENDED TO SUIT EQUIPMENT TO BE SUPPLIED. WE ACCEPT NO RESPONSIBILITY FOR WORK DONE BY SAID CONTRACTORS AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY BY LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY THE SUBSTITUTION OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN. THIS DRAWING IS THE PROPERTY OF OMNITEAM INCORPORATED. IT IS NOT TO BE REPRODUCED OR DISTRIBUTED, EITHER IN WHOLE OR IN PART.

| NO. | REVISION | DATE | BY | NO. | REVISION | DATE | BY |
|---|---|---|---|---|---|---|---|
| A | Initial Design Release to Clevenger Associates (T. McDougald) #D2010004 | 10/21/20 | CG | | | | |

Resolving the needs of tomorrow today!

OmniTeam, Inc.
Manufacturer of OmniTemp Refrigeration Products
9300 Hall Road, Downey, California 90241
(800) 423-9660 (Toll-Free) - (562) 862-7466 (Fax)
Web page address: www.omniteaminc.com
E-Mail: CathyB@omniteaminc.com

# Chehalis Tribe Elder Center
## Chehalis, WA
## Refrigeration Plan

| DATE | PROPOSAL | SHEET NUMBER |
|---|---|---|
| 10/21/20 | D2010004 | R1 of 2 |
| SCALE: None | | |
| DESIGNED BY: Sean Green | | |
| DRAWN BY: Cathy Godinez | | |

THIS DRAWING IS INTENDED FOR INFORMATION PURPOSES ONLY FOR USE BY THE ARCHITECT AND ENGINEERS TO PREPARE THEIR DOCUMENTS. SEE APPROVED KITCHEN EQUIPMENT CONTRACTOR ROUGH-IN DRAWINGS FOR CONSTRUCTION.

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# The Chehalis Tribe Chehalis Elder Center
CHEHALIS, WA

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: April 16th, 2021

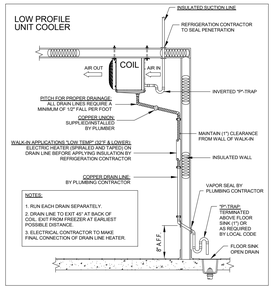
| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:
**REFRIGERATION ENGINEERING**

SCALE: 1/4" = 1'-0"
DRAWN: Author
CHECKED: Checker
PROJECT NO: 0000000.00

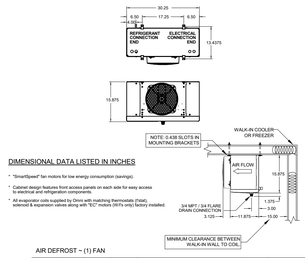
SHEET:
FSR-1

## CONDENSATE DRAIN LINES




## EVAPORATOR COIL SPECIFICATIONS

### LOW PROFILE UNIT COOLER




DIMENSIONAL DATA LISTED IN INCHES

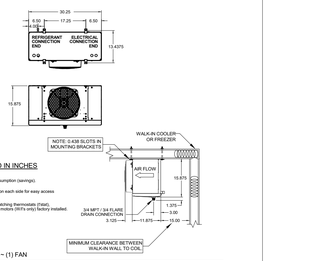
- "SmartSpeed" fan motors for low energy consumption (savings).
- Cabinet design features front access panels on each side for easy access to electrical and refrigeration components.
- All evaporator coils supplied by Omni with matching thermostats (Yatal), solenoid & expansion valves along with "ELC" motors (96Fts only) factory installed.

AIR DEFROST – (1) FAN

| MODEL SERIES | MEDIUM TEMP | VOLTAGE 208-230 1Ph 60Hz | | CONNECTIONS (INCHES) NOT FOR FIELD PIPING | | APPROX. | ELECTRICAL POWER SUPPLY CONNECTION | |
|---|---|---|---|---|---|---|---|---|
| KLP | AIR DEFROST | [New Gen D] | SmartSpeed ECM | SUCTION CONNECTION (OD) SWEAT | DISTRIBUTOR INLET SIZE | SHIP WGT LBS. | FROM BUILDING | FROM RACK |
| 107 | MA | S1D | YES | 5/8 | 1/2 | 49 | YES | NO |

## EVAPORATOR COIL SPECIFICATIONS

### LOW PROFILE UNIT COOLER




DIMENSIONAL DATA LISTED IN INCHES

- "SmartSpeed" fan motors for low energy consumption (savings).
- Cabinet design features front access panels on each side for easy access to electrical and refrigeration components.
- All evaporator coils supplied by Omni with matching thermostats (Yatal), solenoid & expansion valves along with "ELC" motors (96Fts only) factory installed.

ELECTRIC DEFROST – (1) FAN

| MODEL SERIES | LOW TEMP 0-5Fr | VOLTAGE 208-230 1Ph 60Hz | | CONNECTIONS (INCHES) NOT FOR FIELD PIPING | | APPROX. | ELECTRICAL POWER SUPPLY CONNECTION | |
|---|---|---|---|---|---|---|---|---|
| KLP | ELECTRIC DEFROST | [New Gen D] | SmartSpeed ECM | SUCTION CONNECTION (OD) SWEAT | DISTRIBUTOR INLET SIZE | SHIP WGT LBS | FROM BUILDING | FROM RACK |
| 105 | LE | S2D | YES | 5/8 | 1/2 | 51 | YES | NO |

## AIR DEFROST WIRING W/ ESP FOR WALK-IN COOLER

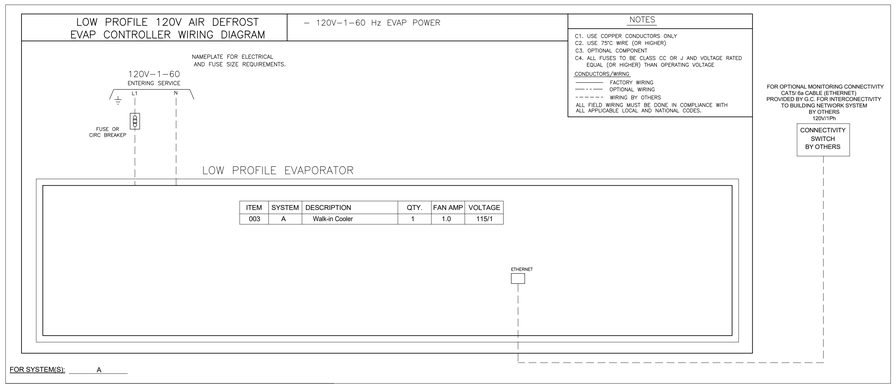
LOW PROFILE 120V AIR DEFROST
EVAP CONTROLLER WIRING DIAGRAM

– 120V–1–60 Hz EVAP POWER

NOTES

C1. USE COPPER CONDUCTORS ONLY
C2. USE 75°C WIRE (OR HIGHER)
C3. OPTIONAL COMPONENT
C4. ALL FUSES TO BE CLASS CC OR J AND VOLTAGE RATED EQUAL (OR HIGHER) THAN OPERATING VOLTAGE

CONDUCTORS/WIRING:
——— FACTORY WIRING
– – – – OPTIONAL WIRING
– · – · – WIRING BY OTHERS
ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.




| ITEM | SYSTEM | DESCRIPTION | QTY. | FAN AMP | VOLTAGE |
|---|---|---|---|---|---|
| 003 | A | Walk-in Cooler | 1 | 1.0 | 115/1 |

FOR SYSTEM(S): A

## ELECTRIC DEFROST WIRING W/ ESP FOR WALK-IN FREEZER

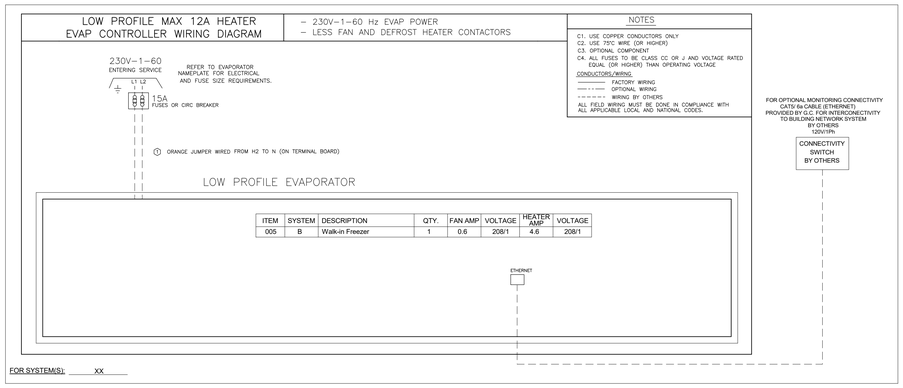
LOW PROFILE MAX 12A HEATER
EVAP CONTROLLER WIRING DIAGRAM

– 230V–1–60 Hz EVAP POWER
– LESS FAN AND DEFROST HEATER CONTACTORS

NOTES

C1. USE COPPER CONDUCTORS ONLY
C2. USE 75°C WIRE (OR HIGHER)
C3. OPTIONAL COMPONENT
C4. ALL FUSES TO BE CLASS CC OR J AND VOLTAGE RATED EQUAL (OR HIGHER) THAN OPERATING VOLTAGE

CONDUCTORS/WIRING:
——— FACTORY WIRING
– – – – OPTIONAL WIRING
– · – · – WIRING BY OTHERS
ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.




| ITEM | SYSTEM | DESCRIPTION | QTY. | FAN AMP | VOLTAGE | HEATER AMP | VOLTAGE |
|---|---|---|---|---|---|---|---|
| 005 | B | Walk-in Freezer | 1 | 0.6 | 208/1 | 4.6 | 208/1 |

FOR SYSTEM(S): XX

THIS PLAN IS PRIMARILY A GENERAL ARRANGEMENT OF EQUIPMENT FOR THE CONVENIENCE OF CONTRACTORS AND IS MADE FROM AVAILABLE INFORMATION. BUT MEASUREMENTS ARE TO BE VERIFIED ON THE JOB. PLUMBING, ELECTRICAL, REFRIGERATION, AND VENT OUTLETS HAVE BEEN LOCATED AS ACCURATELY AS POSSIBLE AND ARE INTENDED TO SUIT EQUIPMENT TO BE SUPPLIED. WE ACCEPT NO RESPONSIBILITY FOR WORK DONE BY SAID CONTRACTORS AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY BY LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY THE SUBSTITUTION OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN. THIS DRAWING IS THE PROPERTY OF OMNITEAM INCORPORATED. IT IS NOT TO BE REPRODUCED OR DISTRIBUTED, EITHER IN WHOLE OR IN PART.

| NO. | REVISION | DATE | BY | NO. | REVISION | DATE | BY |
|---|---|---|---|---|---|---|---|
| A | Initial Design Release to Clevenger Associates (T. McDougald) #D2010004 | 10/21/20 | CG | | | | |

OmniTeam, Inc.
Manufacturer of OmniTemp Refrigeration Products
9300 Hall Road, Downey, California 90241
(800) 423-9660 (Toll-Free) - (562) 862-7466 (Fax)
Web page address: www.omniteaminc.com
E-Mail: CathyB@omniteaminc.com

Resolving the needs of tomorrow today!

# Chehalis Tribe Elder Center
## Chehalis, WA
## Refrigeration Plan

DATE: 10/21/20
DRAWING: D2010004
SC ALT: None
DESIGNED BY: Sean Green
DRAWN BY: Cathy Godinez
SHEET NUMBER: R2 of 2

THIS DRAWING IS INTENDED FOR INFORMATION PURPOSES ONLY FOR USE BY THE ARCHITECT AND ENGINEERS TO PREPARE THEIR DOCUMENTS. SEE APPROVED KITCHEN EQUIPMENT CONTRACTOR ROUGH-IN DRAWINGS FOR CONSTRUCTION.

a|r|c ARCHITECTS
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206 322 3322

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# The Chehalis Tribe
# Chehalis Elder Center
CHEHALIS, WA

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: April 16th, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:

**REFRIGERATION ENGINEERING**

SCALE: 1/4" = 1'-0"
DRAWN: Author
CHECKED: Checker
PROJECT NO: 0000000.00

SHEET:
FSR-2

## LISTINGS & STANDARDS

THIS WET CHEMICAL EXTINGUISHING SYSTEM IS ENGINEERED TO PROVIDE FIRE PROTECTION FOR RESTAURANT HOODS, DUCTS AND COOKING APPLIANCES, IS UL 300 LISTED AND IS TO BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

- NFPA 17A 2017 EDITION
- NFPA 10 2018 EDITION
- NFPA 96 2017 EDITION

## APPLICABLE CODES

NFPA 10 2018 EDITION

(8.6.2) MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 30 FT (9.15m) FROM THE HAZARD TO THE EXTINGUISHER(S)

NFPA 17A 2017 EDITION

(4.4.4.7) A HOOD EXHAUST FAN(S) SHALL CONTINUE TO OPERATE AFTER THE EXTINGUISHING SYSTEM HAS BEEN ACTIVATED UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE DESIGN OF THE EXTINGUISHING SYSTEM.

(5.2.1.1) MANUAL PULL STATIONS INSTALLED NO MORE THAN 48" AND NO LESS THAN 42" ABOVE THE FLOOR.

NFPA 96 2017 EDITION

**(8.3.3)** WHEN ITS FIRE-EXTINGUISHING SYSTEM DISCHARGES, MAKEUP AIR SUPPLIED INTERNALLY TO A HOOD SHALL SHUT DOWN.

**(10.4.1)** UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL SOURCES OF FUEL AND ELECTRICAL POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM SHALL AUTOMATICALLY SHUT OFF.

**(10.4.3)** ANY GAS APPLIANCES NOT REQUIRING PROTECTION BUT LOCATED UNDER THE SAME VENTILATING EQUIPMENT SHALL ALSO AUTOMATICALLY SHUT OFF UPON ACTIVATION OF ANY EXTINGUISHING SYSTEM.

**(10.4.4)** SHUTOFF DEVICE SHALL REQUIRE MANUAL RESET.

**(10.5.1.1)** AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED A MINIMUM OF 3 M (10 FT) AND A MAXIMUM OF 6 M (20 FT) FROM THE PROTECTED KITCHEN APPLIANCE(S) WITHIN THE PATH OF EGRESS.

## INSTALLATION REQUIREMENTS

1. ALL PIPE SHALL BE SCHEDULE 40 BLACK IRON. CHROME PLATED/SLEEVED WHERE EXPOSED.
2. ALL CYLINDER SYSTEMS SHALL HAVE 3/8" SUPPLY LINES AND 3/8" BRANCH LINES.
3. ALL WIRE ROPE SHALL BE 1/16" STAINLESS STEEL AND RUN THROUGH 1/2" EMT CONDUIT.
4. U.L. LISTED CORNER PULLEYS REQUIRED WHENEVER THE STAINLESS STEEL CABLE DIRECTION CHANGES.
5. ALL EQUIPMENT WITH FIRE PROTECTION MUST BE SECURED TO FLOOR. (NOT BY STREIVOR)
6. SWIVEL ADAPTERS MAY BE ADDED TO NOZZLES FOR UP TO 30° ROTATION.

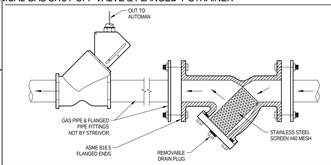
## SYSTEM #1

HOOD #34

| ZONE COVERAGE: Duct | Plenum | Appliance | COVERAGE DESCRIPTION | NOZZLE | QTY. | FLOW POINTS | PAGE |
|---|---|---|---|---|---|---|---|
| ■ | ☐ | ☐ | DUCT | -- | - | # | - |
| ☐ | ■ | ☐ | PLENUM | -- | - | # | - |
| ☐ | ☐ | ■ | RANGE | -- | - | # | - |
| ☐ | ☐ | ■ | GRIDDLE | -- | - | # | - |

## MECHANICAL GAS SHUT-OFF VALVE & FLANGED Y-STRAINER

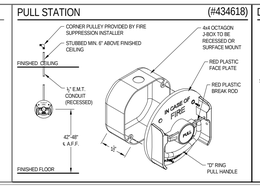
(SEE MEP DRAWINGS FOR LOCATION)



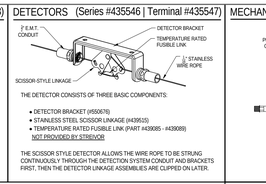

- GAS SHUT-OFF VALVE(S) TO BE SIZED AND LOCATED PER MEP DRAWINGS (MAXIMUM VALVE SIZE: 3" NPT)
- VALVE(S) AND STRAINERS TO BE INSTALLED BY DIVISION 22 (PLUMBING)
- Y-STRAINER REQUIRED FOR THE PROTECTION OF THE GAS VALVE. INSTALL A Y-STRAINER ON THE INLET SIDE OF THE GAS VALVE (AS CLOSE AS POSSIBLE).

Y-STRAINER NOT PROVIDED BY STREIVOR UNLESS SPECIFICALLY INCLUDED IN PURCHASE ORDER.

## PULL STATION (#434618)




## DETECTORS (Series #435546 | Terminal #435547)



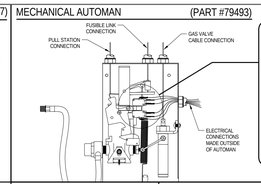

THE DETECTOR CONSISTS OF THREE BASIC COMPONENTS:

- DETECTOR BRACKET (#550367B)
- STAINLESS STEEL SCISSOR LINKAGE (#439515)
- TEMPERATURE RATED FUSIBLE LINK (PART #439085 - #439089)

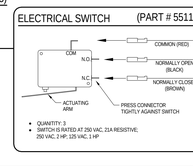
NOT PROVIDED BY STREIVOR

THE SCISSOR STYLE DETECTOR ALLOWS THE WIRE ROPE TO BE STRUNG CONTINUOUSLY THROUGH THE DETECTION SYSTEM CONDUIT AND BRACKETS FIRST, THEN THE DETECTOR LINKAGE ASSEMBLIES ARE CLIPPED ON LATER.

## MECHANICAL AUTOMAN (PART #79493)

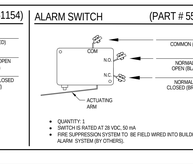



## ELECTRICAL SWITCH (PART # 551154)




- QUANTITY: 3
- SWITCH IS RATED AT 250 VAC, 21A RESISTIVE; 250 VAC, 2 HP; 125 VAC, 1 HP.

## ALARM SWITCH (PART # 550077)




- QUANTITY: 1
- SWITCH IS RATED AT 28 VDC, 50 mA
- FIRE SUPPRESSION SYSTEM TO BE FIELD WIRED INTO BUILDING FIRE ALARM SYSTEM (BY OTHERS).

## GENERAL NOTES:

NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. (STREIVOR AIR SYSTEMS, STREIVOR STAINLESS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.

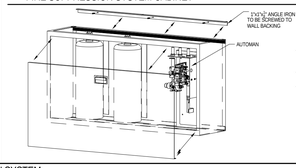
THIS PLAN IS SUBMITTED FOR THE CONVENIENCE OF THE ARCHITECT AND/OR CONTRACTOR AND IS DONE FROM AVAILABLE ARCHITECTURAL INFORMATION. ALL MEASUREMENTS ARE SUBJECT TO PHYSICAL VERIFICATION AND ANY DEVIATIONS OR DISCREPANCIES SHALL BE DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN WRITING.

STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY SAID ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES OR SUBCONTRACTORS, AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY DUE TO LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY ANY SUBSTITUTIONS OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN.

ANY ERRORS, AMBIGUITIES OR OMISSIONS IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREIVOR, INC. FOR CORRECTIONS BEFORE ANY OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR. BY VIRTUE OF ERROR, AMBIGUITY OR OMISSION WHICH SHOULD HAVE BEEN DISCOVERED DURING THE PREPARATION OF BID ESTIMATES, AND DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN A TIMELY MANNER.

NOTE: FIELD PIPING TO BE INSTALLED BY A STREIVOR APPOINTED FIRE INSTALLER

## FIRE SUPPRESSION SYSTEM CABINET



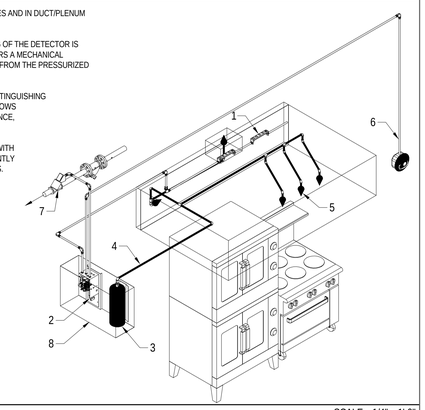

- 36" MINIMUM CLEARANCE REQUIRED IN FRONT OF THE REMOVABLE CABINET DOOR.
- SUPPORT BACKING REQUIRED IF CABINET MOUNTS TO WALL
- CABINET AND FIRE SUPPRESSION SYSTEM COMPONENTS APPROXIMATELY 100 LBS(FT. SEE PATH OF EGRESS DRAWING FOR CABINET DIMENSIONS)

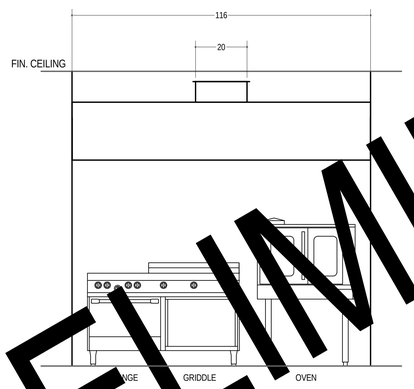
| CYLINDER | 1.5 GAL | 3-GAL |
|---|---|---|
| WEIGHT (FULL) | 24 LBS | 42 LBS |

## ANSUL R-102 FIRE SUPPRESSION SYSTEM

SCALE: N.T.S.

1. HEAT SENSING DETECTORS LOCATED OVER APPLIANCES AND IN DUCT/PLENUM AREAS MONITOR AMBIENT COOKING TEMPERATURE.
2. WHEN A FIRE OCCURS AND THE TEMPERATURE RATING OF THE DETECTOR IS EXCEEDED, THE FUSIBLE LINK FRACTURES AND TRIGGERS A MECHANICAL ACTIVATION OF THE AUTOMAN, RELEASING THE AGENT FROM THE PRESSURIZED CYLINDER.
3. ANSUL R-102'S HIGHLY CONCENTRATED LIQUID FIRE EXTINGUISHING AGENT, STORED IN A D.O.T. RATED STEEL CYLINDER, FLOWS THROUGH DISTRIBUTION PIPING DEDICATED TO APPLIANCE, DUCT, AND PLENUM AREAS.
4. PRE-ENGINEERED PIPING INSTALLED IN ACCORDANCE WITH UL LISTED PARAMETERS TO EFFECTIVELY AND EFFICIENTLY DISTRIBUTE EXTINGUISHING AGENT THROUGH NOZZLES.
5. ANSUL'S PROPRIETARY NOZZLES, WITH CUSTOM DISCHARGE PATTERNS DEVELOPED SPECIFICALLY FOR EACH APPLIANCE, DIRECT THE AGENT ACCURATELY TO ENSURE RAPID FIRE SUPPRESSION.
6. A REMOTE PULL STATION PROVIDES A MANUAL MEANS OF ACTIVATING THE SYSTEM.
7. SECONDARY OUTPUT FUNCTIONS PROVIDE A MEANS TO INTERRUPT THE FLOW OF COOKING GAS.
8. THE FIRE EXTINGUISHING AGENT CYLINDER AND AUTOMAN CAN BE MOUNTED IN AN OEM STAINLESS STEEL ENCLOSURE WITH UL LISTED MOUNTING BRACKET

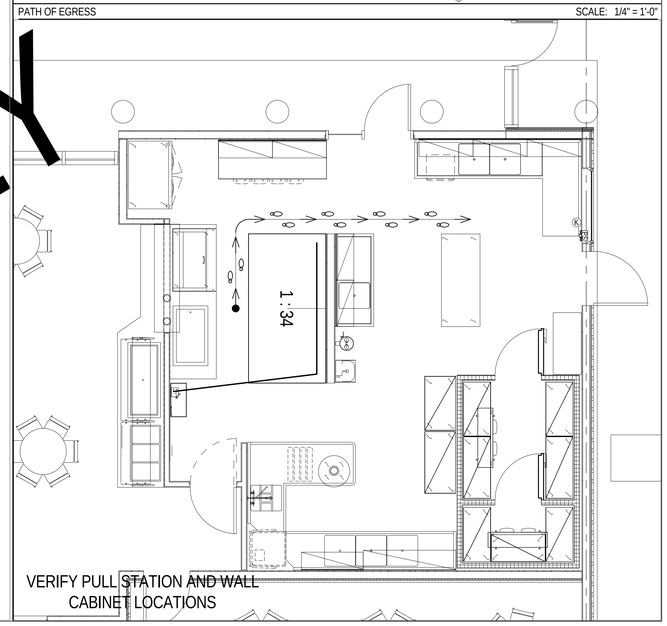



SYSTEM #1 : HOOD #34
ELEVATION VIEW - SCALE : 1/2" = 1'-0"

## PATH OF EGRESS

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




## CYLINDER/PIPING LIMITATIONS

| CYLINDER | FLOW POINTS | SUPPLY(FT) | DUCT (FT) | PLENUM (FT) | EQUIP (FT) |
|---|---|---|---|---|---|
| 1.5 GAL | MAX. | 5 | 40 | 6 | 4 | 10 |
| 3.0 GAL | MAX. | 11 | 40 | 8 | 4 | 12 |

## CABLE/LINE LIMITATIONS

| | | LENGTH | PULLEYS | BRACKETS |
|---|---|---|---|---|
| FUSIBLE LINK (pg. 4-71) | MAXIMUM | 150.00 FT | 20 | 15 |
| PULL STATION(S) (pg. 4-73) | MAXIMUM | 150.00 FT | 20 | N/A |
| GAS VALVE(S) (pg. 4-74 TO 4-75) | MAXIMUM | 100.00 FT | 20 | N/A |

## LEGEND

- PATH OF EGRESS
- PULL STATION
- DETECTION LINE ROUTE
- AUTOMAN
- K-CLASS FIRE EXTINGUISHER (NOT SUPPLIED BY STREIVOR)

SYSTEM # : HOOD #

PRELIMINARY DESIGN ONLY


STREIVOR™ AIR SYSTEMS
"STRIVING FOR EXCELLENCE"
2150 KITTY HAWK ROAD, LIVERMORE, CA 94551
PHONE: (925) 960-9090 FAX:(925) 960-9055
WWW.STREIVOR.COM


PROJECT:
CHEHALIS ELDER CENTER
---
CHEHALIS, WA

CLEVENGER ASSOCIATES

| | |
|---|---|
| ITEM #: | 45 |
| SYSTEM #: | 1 |
| HOOD #: | 34 |
| DATE: | 10/16/2020 |
| DRAWN BY: | SWB |
| CHECKED BY: | KCS |
| CONSULTANT: | CLEVENGER ASSOCIATES |
| SCALE: (UNLESS OTHERWISE NOTED) | 1/2" = 1' - 0" |

* PRINT SIZE IS NOT NECESSARY 17"
THIS DRAWING IS NOT PLOTTED TO SCALE

| | DESCRIPTION | DATE | INT. |
|---|---|---|---|
| △ | --- | --/--/-- | --- |
| △ | --- | --/--/-- | --- |
| △ | --- | --/--/-- | --- |
| △ | --- | --/--/-- | --- |
| △ | --- | --/--/-- | --- |

DRAWING:
F-01
SHEET 01 OF 01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a|r|c ARCHITECTS
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# The Chehalis Tribe
# Chehalis Elder Center

CHEHALIS, WA

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: April 16th, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

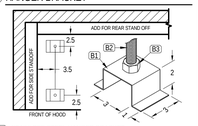
CONTENTS:

**EXHAUST HOOD ENGINEERING**

| | |
|---|---|
| SCALE: | 1/4" = 1'-0" |
| DRAWN: | Author |
| CHECKED: | Checker |
| PROJECT NO: | 0000000.00 |

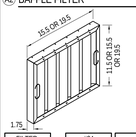
SHEET:
FSV-1

A1 HANGER BRACKET




B1 STAINLESS STEEL HANGER BRACKET
B2 ½" THREADED ROD
B3 ½" HEAVY DUTY LOCK NUTS, (1) ABOVE (1) BELOW
(THREADED ROD & LOCK NUTS NOT PROVIDED)

A2 BAFFLE FILTER — STAINLESS STEEL



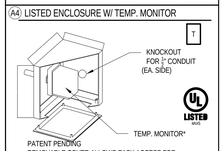

| FILTER: | | | #34 | | | | | |
|---|---|---|---|---|---|---|---|---|
| H x L | EFF AREA | | QTY | AREA | QTY | AREA | QTY | AREA |
| 1616 | 1.36 | X | 2 | 2.72 | | | | |
| 1620 | 1.75 | X | 4 | 7.00 | | | | |
| TOTAL EFF AREA = | | | | 9.72 | = | | = | |

HOOD EX. CFM ÷ TOTAL EFF AREA = FPM
OPERATING RANGE OF THE FILTER (200 TO 400 FPM)

A3 HOOD CANOPY LIGHTING FIXTURE

- LED NATURAL - 4500K-5500K
- ONLY UL LISTED LED EDISON-STYLE BULB RATED TO 75°C
- MEETS NFPA CODE 96 & NEC 410
- SPECIFICALLY DESIGNED FOR CANOPY HOODS
- VOLTAGE - UL LISTED AT 120V
- 12 WATTS - 960 LUMENS

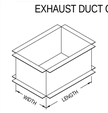
A4 LISTED ENCLOSURE W/ TEMP. MONITOR




PATENT PENDING
REMOVABLE COVER ALLOWS EASY ACCESS FOR INSTALLATION, ADJUSTMENTS AND SERVICE OF MONITORING EQUIPMENT FROM UNDER THE HOOD.
*FOR TEMPERATURE MONITOR WIRING SEE DETAIL E2

A5 DUCT CONNECTION DETAIL

EXHAUST DUCT COLLAR DETAIL




1" FLANGE AT TOP AND BOTTOM OF COLLAR ALLOWS FOR DUCT CONNECTIONS

BALANCEAIRE NOT INCLUDED
INTERNALLY ADJUSTABLE VARIABLE VOLUME DAMPER

1" FLANGE AT TOP AND BOTTOM OF COLLAR ALLOWS FOR DUCT CONNECTIONS

NO DAMPER

US PATENTS D634,065 S
THE BALANCEAIRE'S VARIABLE BLADES CAN BE ADJUSTED TO VARYING POSITIONS FROM 100% OPEN TO 95% CLOSED TO INCREASE OR DECREASE THE AMOUNT OF RESISTANCE IN THE EXHAUST DUCT COLLAR. THE EXHAUST FAN MUST BE SIZED TO ACCOUNT FOR THE BALANCEAIRE'S ADDED RESISTANCE.

EXHAUST COLLAR APPROVAL

OPTIONS
☐ SHIP COLLAR LOOSE (THE PURCHASER ACCEPTS THE OBLIGATION AND COST OF CUTTING/WELDING COLLAR)
☐ WELD COLLAR TO HOOD (DIMENSIONS REQUIRED)

DRAWING APPROVAL

THIS DRAWING MUST BE REVIEWED, SIGNED & RETURNED TO STREIVOR AIR SYSTEMS PRIOR TO THE START OF FABRICATION.

VERIFY THE FOLLOWING:
1. ALL DIMENSIONAL INFORMATION, MOUNTING LOCATIONS & CLEARANCES.
2. THE LOCATION & TYPE OF COOKING EQUIPMENT.

APPROVED FOR FABRICATION
☐ APPROVED ☐ APPROVED AS NOTED
☐ REVISE & RESUBMIT

APPROVED BY ____ DATE

NOTE TO REVIEWER:
ANY CHANGES IN COOKING EQUIPMENT SUCH AS EQUIPMENT POSITION, TYPE AND/OR INCREASE IN ENERGY OUTPUT MAY AFFECT EXHAUST AIRFLOW. STREIVOR AIR SYSTEMS MUST BE NOTIFIED OF ANY CHANGES THAT OCCUR PRIOR TO FABRICATION, & RE-ENGINEERING OF THE EXHAUST AIRFLOW MAY BE REQUIRED.

## HOOD SCHEDULE

| NO. | MODEL | L | W | H | WEIGHT | EXHAUST SPEC. CFM | SP | CFM/FT | DIST. FROM COOKING SURFACE TO LOWER EDGE OF HOOD. (UL1) MIN. | MAX. | MINIMUM OVERHANG OPEN SIDES (UL2) SIDE | (UL3) FRONT | MAX. | EQUIP. DUTY TEMPERATURE (UL4) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 34 | WCBD 1165722.5 | 116 | 57 | 22.5 | 576 | 2030 | 0.63 | 210 | 36 | 48 | 6 | 6 | 450 | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

1. GREATER EXHAUST AND/OR LESSER SUPPLY AIR FLOW RATES MAY BE REQUIRED FOR COMPLETE VAPOR AND SMOKE REMOVAL IN SPECIFIC INSTALLATIONS.
2. THE EXHAUST FAN MUST BE OPERATED WHENEVER THE COOKING EQUIPMENT IS TURNED ON. (NFPA SECTION 12.1.2)

HOOD CANOPY MATERIAL: ALL 304 SERIES STAINLESS STEEL

HOOD LEGEND

1. ALL WELDED ENCLOSURE
2. 16 GA. SIDES, REMAINDER OF HOOD TO BE NO LESS THAN 18 GA.
3. PITCHED GREASE DRIP TRAY
4. ENCLOSED METAL CONTAINER
6. ENCLOSURE PANEL: INCLUDED
8. 12" HOOD OVERHANG IS RECOMMENDED FOR ALL HEAVY DUTY COOKING APPLIANCES
14. SEE ELECTRICAL SCHEDULE - CONSULT FACTORY FOR ALTERNATE INPUT POWER LOCATION(S)

## ELECTRICAL SCHEDULE

| CIRCUIT | DESCRIPTION | VOLT/PHASE | AMPS | FEED FROM |
|---|---|---|---|---|
| E1 | LIGHTS | 120/1 | 1 | CB |
| E2 | STM | --- | --- | --- |
| --- | --- | --- | --- | CB |
| --- | --- | --- | --- | CB |

CB: CIRCUIT BREAKER BY ELECTRICAL CONTRACTOR

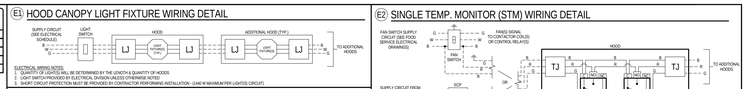
NOTE:
IF AN ELECTRICAL CONTROL PANEL FOR THE HOODS IS INCLUDED, THE ABOVE SCHEDULE IS NOT VALID. REFER TO DEMANDAIRE DRAWINGS.

ELECTRICAL LEGEND

STREIVOR FACTORY WIRING
FIELD WIRING BY OTHERS
LJ HOOD CANOPY LIGHT(S) JUNCTION BOX
TJ TEMPERATURE MONITOR(S) JUNCTION BOX

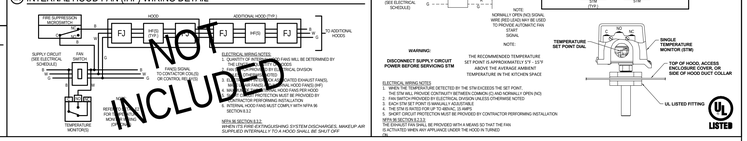
NOTE: FACTORY INSTALLATION OF JUNCTION BOXES MAY DIFFER FROM LOCATION ON DRAWINGS

E1 HOOD CANOPY LIGHT FIXTURE WIRING DETAIL




ELECTRICAL WIRING NOTES
1. QUANTITY OF LIGHTS WILL BE DETERMINED BY THE LENGTH & QUANTITY OF HOODS
2. LIGHT SWITCH PROVIDED BY ELECTRICAL DIVISION UNLESS OTHERWISE NOTED
3. SHORT CIRCUIT PROTECTION MUST BE PROVIDED BY CONTRACTOR PERFORMING INSTALLATION - (1440 W MAXIMUM PER LIGHTED CIRCUIT)

E3 INTERNAL HOOD FAN (IHF) WIRING DETAIL




NOT INCLUDED

ELECTRICAL WIRING NOTES
1. QUANTITY OF MOTORS & FANS WILL BE DETERMINED BY THE LENGTH & QUANTITY OF HOODS
2. FAN SWITCH PROVIDED BY ELECTRICAL DIVISION
3. SHORT CIRCUIT PROTECTION MUST BE PROVIDED BY CONTRACTOR PERFORMING INSTALLATION
4. INTERNAL HOOD FANS MUST COMPLY WITH NFPA 96 SECTION 9.3

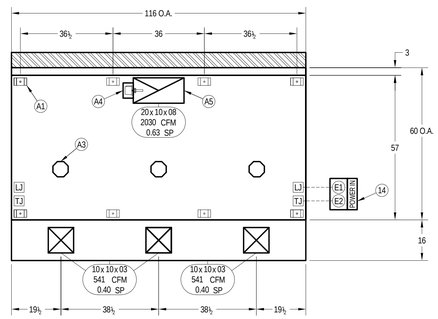
NFPA 96 SECTION 9.3.1.2:
WHEN UTD FIRE-EXTINGUISHING SYSTEM DISCHARGES, MAKEUP AIR SUPPLIED INTERNALLY TO A HOOD SHALL BE SHUT OFF

E2 SINGLE TEMP. MONITOR (STM) WIRING DETAIL

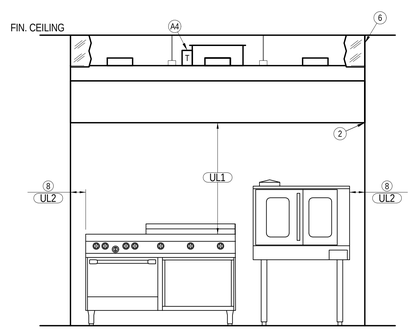



ELECTRICAL WIRING NOTES
1. WHEN THE TEMPERATURE DETECTED BY THE STM EXCEEDS THE SET POINT, THE STM WILL PROVIDE CONTINUITY BETWEEN COMMON (C) AND NORMALLY OPEN (NO)
2. FAN SWITCH PROVIDED BY ELECTRICAL DIVISION UNLESS OTHERWISE NOTED
3. EACH STM SET POINT IS MANUALLY ADJUSTABLE
4. SUPPLY CIRCUIT TO THE STM MUST BE FUSED
5. SHORT CIRCUIT PROTECTION MUST BE PROVIDED BY CONTRACTOR PERFORMING INSTALLATION

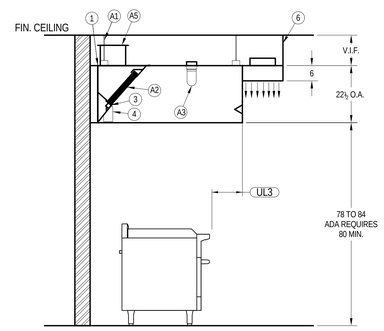
NFPA 96 SECTION 9.3.1.2:
AUTOMATIC FAN SIGNAL MUST BE PROVIDED WITH A MEANS SO THAT THE FAN IS ACTIVATED WHEN ANY APPLIANCE UNDER THE HOOD IS TURNED ON.




HOOD #34
PLAN VIEW




HOOD #34
ELEVATION VIEW




HOOD #34
SECTION VIEW

GENERAL NOTES:

NOTES TO ARCHITECT AND/OR CONTRACTOR:
STREIVOR, INC. (STREIVOR AIR SYSTEMS, STREIVOR STAINLESS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.
THIS PLAN IS SUBMITTED FOR THE CONVENIENCE OF THE ARCHITECT AND/OR CONTRACTOR AND IS DONE FROM AVAILABLE ARCHITECTURAL INFORMATION. ALL MEASUREMENTS ARE SUBJECT TO PHYSICAL VERIFICATION AND ANY DEVIATIONS OR DISCREPANCIES SHALL BE DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN WRITING.
STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY SAID ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES OR SUBCONTRACTORS, AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY DUE TO LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY ANY SUBSTITUTIONS OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN.
ANY ERRORS, AMBIGUITIES OR OMISSIONS IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREIVOR, INC. FOR CORRECTIONS BEFORE ANY OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR, BY VIRTUE OF ERROR, AMBIGUITY OR OMISSION WHICH SHOULD HAVE BEEN CORRECTED BY THE PRE-CONSTRUCTION REPRESENTATIVE OF THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
THIS PLAN DOES NOT INCLUDE ANY INSTALLATION, OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLATION, STARTUP OR BALANCING.

INSTALLATION

ALL INSTALLATION, STARTUP AND BALANCING MUST BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH ALL APPLICABLE PREVAILING CODES AND STANDARDS.
STANDARD NFPA 96 HOOD CLEARANCES
0" TO NON-COMBUSTIBLE MATERIALS
3" TO LIMITED-COMBUSTIBLE MATERIALS
18" TO COMBUSTIBLE MATERIAL
OVERHEAD CLEARANCES
10" CLEARANCE IS REQUIRED ABOVE THE HOOD
REDUCED CLEARANCES
REDUCED CLEARANCES MAY BE AVAILABLE. CONSULT FACTORY FOR REDUCED CLEARANCE
CFSTOMB BALANCE
THE SPECIFIED EXHAUST CFMS LISTED ON THIS DRAWING MUST BE MET DURING TEST AND BALANCE OF THE HOOD SYSTEM(S).
VARIANCE EXHAUST = -0% +10%
VARIANCE SUPPLY = +10% -0%

STREIVOR™ AIR SYSTEMS
"STRIVING FOR EXCELLENCE"
2150 KITTY HAWK ROAD, LIVERMORE, CA 94551
PHONE: (925) 960-9090 FAX:(925) 960-9055
WWW.STREIVOR.COM

PROJECT:
CHEHALIS ELDER CENTER
---
CHEHALIS, WA

CLEVENGER ASSOCIATES

| | |
|---|---|
| HOOD #: | 34 |
| DATE: | 10/16/20 |
| DRAWN BY: | SWB |
| CHECKED BY: | KCS |
| CONSULTANT: | CLEVENGER ASSOCIATES |
| SCALE: UNLESS OTHERWISE NOTED | 1/2" = 1'-0" |

IF BAR DOES NOT MEASURE 1" THIS DRAWING IS NOT TRUE TO SCALE

| | DESCRIPTION | DATE | INT |
|---|---|---|---|
| 5 | REMOVED DEMANDAIRE | 03/22/21 | JAM |
| 4 | --- | -/-/-/- | --- |
| 3 | --- | -/-/-/- | --- |
| 2 | --- | -/-/-/- | --- |
| 1 | --- | -/-/-/- | --- |

DRAWING:
H-01
SHEET 0 OF 01

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a r c ARCHITECTS
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SEATTLE, WA
98104-2579
206 322 3322

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INFO@CLEVENGERASSOC.COM
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PUYALLUP, WASHINGTON 98373
(253) 841-7811 FAX (253) 841-7435
SEATTLE•NEW YORK•PHILIPPINES
WWW.CLEVENGERASSOC.COM

# The Chehalis Tribe Chehalis Elder Center

CHEHALIS, WA

BID DOCUMENTS

ISSUE DATE: April 16th, 2021

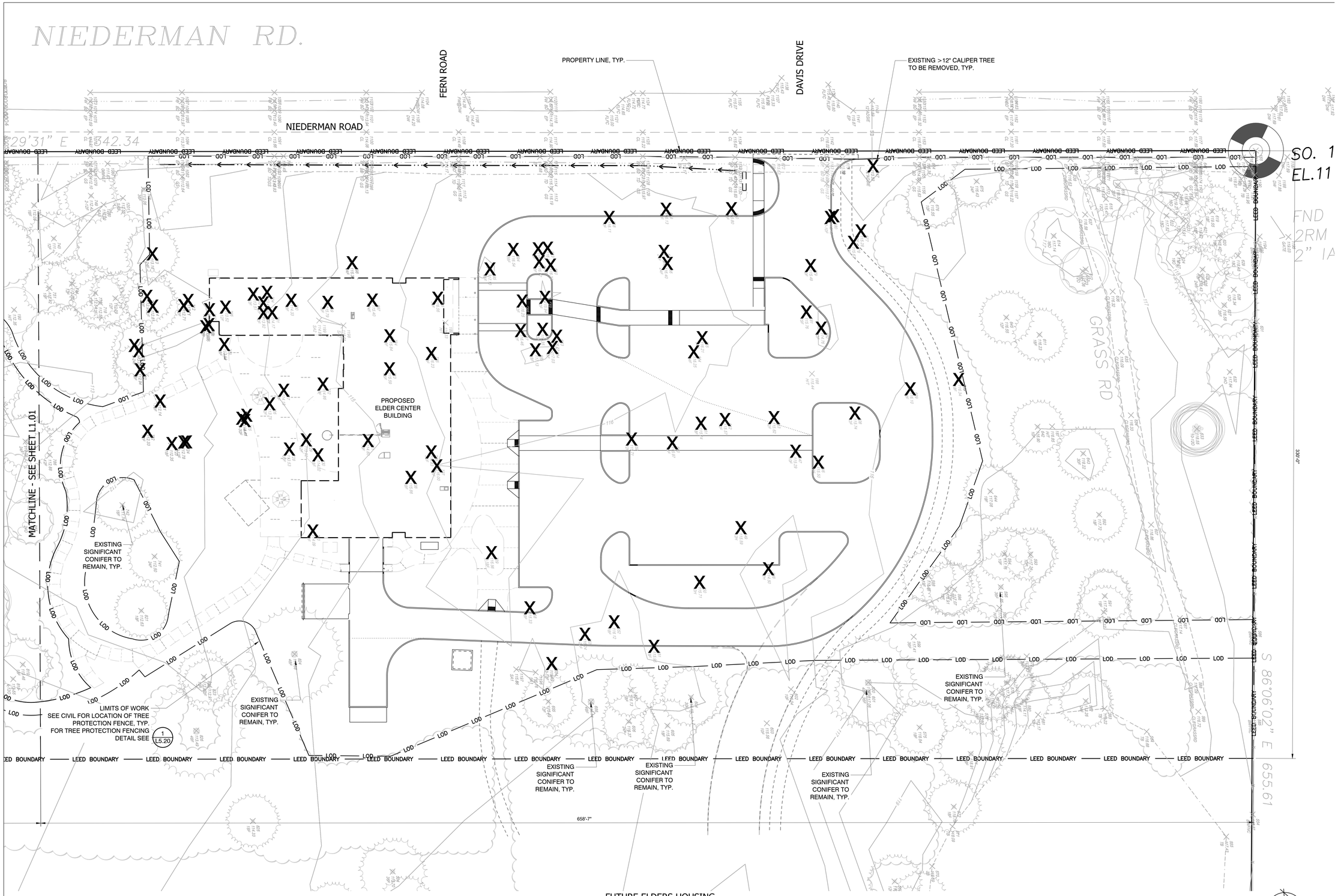
| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:
EXHAUST HOOD ENGINEERING

| | |
|---|---|
| SCALE: | 1/4" = 1'-0" |
| DRAWN: | Author |
| CHECKED: | Checker |
| PROJECT NO: | 0000000.00 |

SHEET:
FSV-2

THIS DRAWING IS INTENDED FOR INFORMATION PURPOSES ONLY FOR USE BY THE ARCHITECT AND ENGINEERS TO PREPARE THEIR DOCUMENTS. SEE APPROVED KITCHEN EQUIPMENT CONTRACTOR ROUGH-IN DRAWINGS FOR CONSTRUCTION.




1 TREE PRESERVATION PLAN

KEY:

— LOD — LOD — LIMIT OF DISTURBANCE.

X EXISTING SIGNFICANT TREE (>12" DBH) TO BE REMOVED

GENERAL NOTES:

1. SEE SHEET L1.01 FOR TREE PRESERVATION NOTES AND LEED CALCULATIONS.

Apr 21, 2021 - 2:28pm


arc ARCHITECTS
119 S MAIN ST
SUITE 200
SEATTLE, WA
98104-2579
206 322 3322

The West Studio
www.theweststudio.com
206.519.5690

STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
ALBERT WEST
LICENSE NO. 1313
EXPIRES ON 9-29-22


# The Chehalis Tribe Chehalis Elder Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

## BID DOCUMENTS

ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

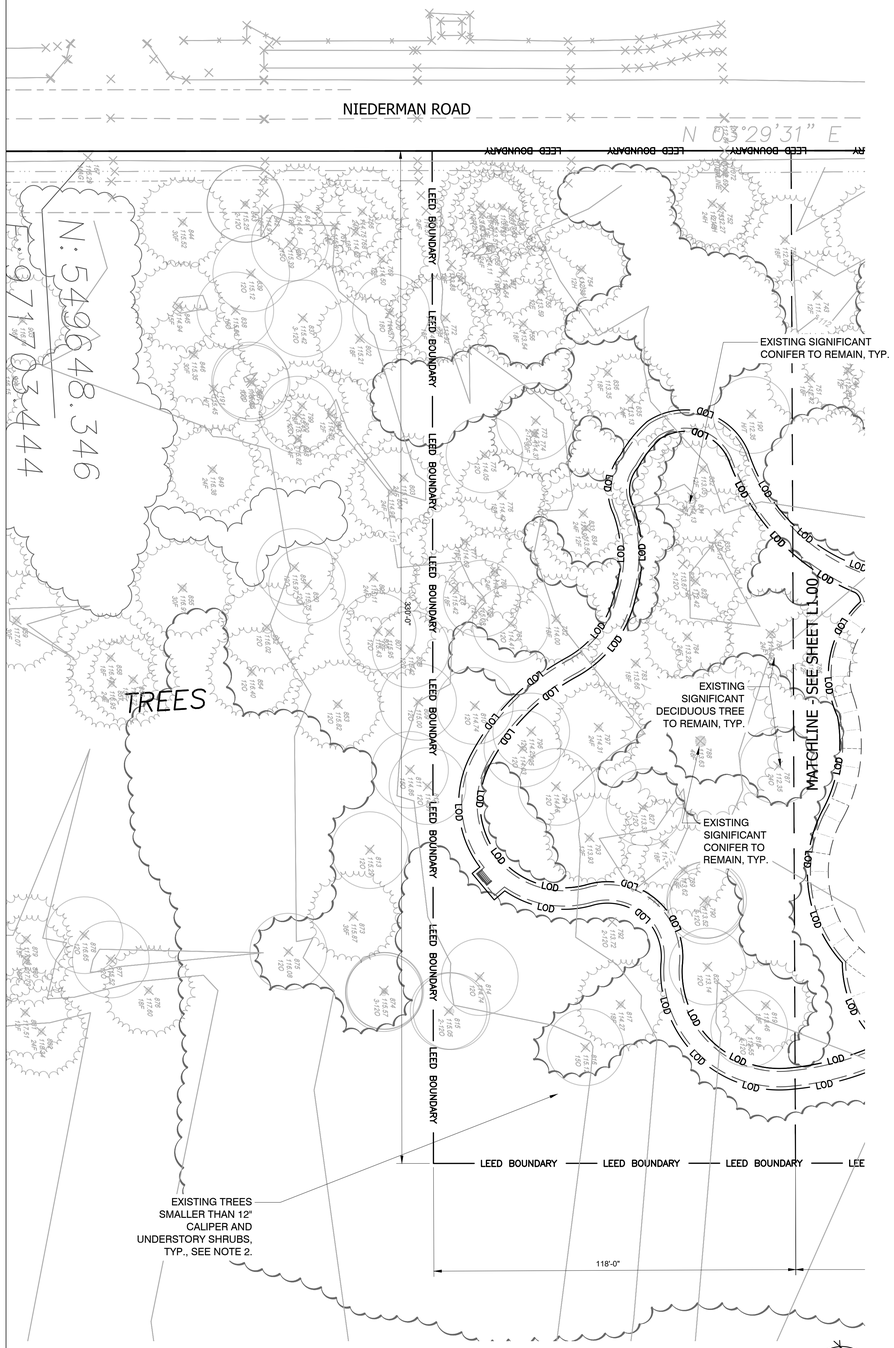
CONTENTS:

**TREE PRESERVATION PLAN**

SCALE: As indicated
DRAWN: AD / AW / TL
CHECKED: AW
PROJECT NO: 2020006.100

SHEET:

**L1.00**




1 TREE PRESERVATION PLAN

0 10 20 40
1 inch = 20 feet

NORTH

## TREE PRESERVATION NOTES:

1. TOTAL TREES ON DEVELOPMENT SITE GREATER THAN 12" CALIPER : 185
   - 1.1. TREES 48" CALIPER OR GREATER TO BE REMOVED: 2 (1%)
   - 1.2. TREES 36" - 47" CALIPER TO BE REMOVED: 6 (3%)
   - 1.3. TREES 30" - 35" CALIPER TO BE REMOVED: 5 (3%)
   - 1.4. TREES 12" - 29" CALIPER TO BE REMOVED: 79 (42%)
2. TREES UNDER 12" CALIPER ARE NOT SHOWN, BUT ARE TO BE PRESERVED AND PROTECTED OUTSIDE THE LIMITS OF WORK.
3. CONTRACTOR SHALL BE FAMILIAR WITH LOCATIONS OF ALL ON-SITE UTILITIES PRIOR TO COMMENCING ANY LANDSCAPE WORK.
4. EXISTING TREES SHALL BE PROTECTED IN ACCORDANCE DETAIL 1/L5.20 AND SPECIFICATIONS.
5. SEE CIVIL SHEET C101 FOR TESC PLAN.
6. PROTECT AND PRESERVE ALL VEGETATION OUTSIDE LIMIT OF WORK LINE.
7. INVASIVE SPECIES:
   - 7.1. REMOVAL OF CLASS A INVASIVE SPECIES IS REQUIRED BY LAW.
   - 7.2. SEE THE FOLLOWING LINK FOR A FULL LIST https://www.nwcb.wa.gov/class-a-noxious-weeds, INCLUDING BUT NOT LIMITED TO:
     - 7.2.1. FRENCH BROOM / GENISTA SP.
     - 7.2.2. SPANISH BROOM / SPARTIUM SP.
   - 7.3. OTHER SPECIES TO BE REMOVED FROM SITE INCLUDE CLASS B INVASIVE SPECIES AS LISTED IN https://www.nwcb.wa.gov/class-b-noxious-weeds, INCLUDING BUT NOT LIMITED TO:
     - 7.3.1. SCOTCH BROOM / CYTISUS SP.
     - 7.3.2. HOLLY
     - 7.3.3. REED CANARY GRASS
     - 7.3.4. PURPLE LOOSESTRIFE
     - 7.3.5. SPARTINA
     - 7.3.6. KNOTWEED / FOLLOPIA SP.
     - 7.3.7. GORSE / ULEX SP.
     - 7.3.8. BUTTERFLY BUSH / BUDDLEJA SP.
     - 7.3.9. KNAPWEED / CENTAUREA SP.
   - 6.2. SEE https://www.invasiveplantswesternusa.org/ FOR MORE INFORMATION.

## LEED CALCULATIONS:

1. TOTAL LEED AREA: 25,6330 SF
2. AREA OF DISTURBANCE: 136,056 SF
3. SF OF TREES LEFT UNDISTURBED/PRESERVED: 120,274 SF
4. SF OF UNDEVELOPED/ UNDISTURBED/ PRESERVED LAND: 120,274 SF
5. PERCENTAGE OF PROTECTED LAND: 47%

## KEY:

—— LOD —— LOD —— LIMIT OF DISTURBANCE.

X EXISTING SIGNFICANT TREE (>12" DBH) TO BE REMOVED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STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
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LICENSE NO. 1313
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# The Chehalis Tribe Chehalis Elder Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |
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| | | |
| | | |
| | | |

CONTENTS:

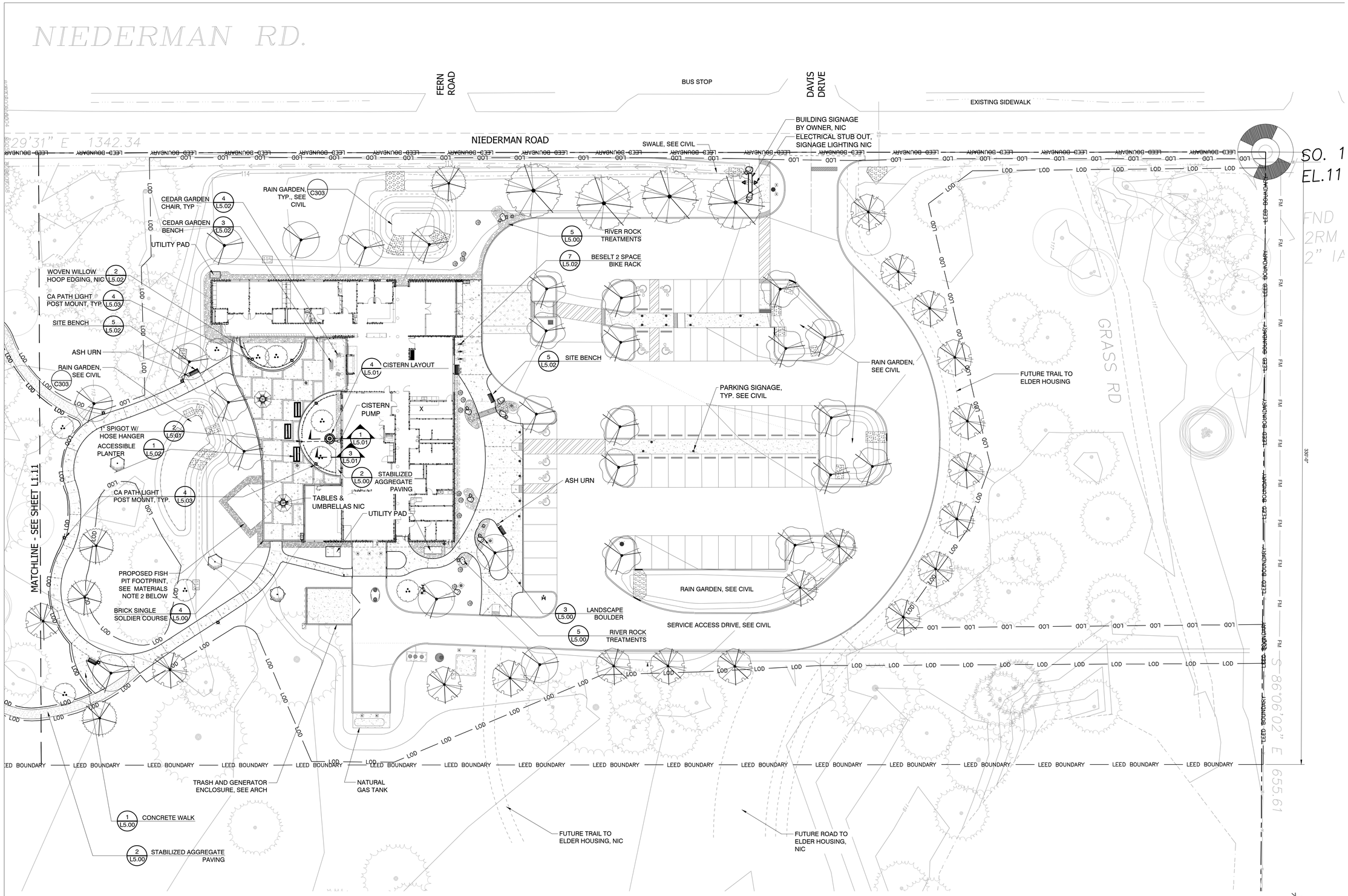
**TREE PRESERVATION PLAN**

| | |
|---|---|
| SCALE: | As indicated |
| DRAWN: | AD / AW / TL |
| CHECKED: | AW |
| PROJECT NO: | 2020006.100 |

SHEET:

**L1.01**

Apr 21, 2021 - 2:28pm




1 SITE MATERIALS PLAN

0 10 20 40
1 inch = 20 feet

## MATERIALS NOTES

1. SEE SHEET L1.11 FOR MATERIALS SCHEDULE AND NOTES.
2. PROPOSED FISH PIT: DESIGN PER OWNER, REPLICATE EXISTING FISH PIT AT THIS LOCATION.

Apr 21, 2021 - 2:29pm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NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

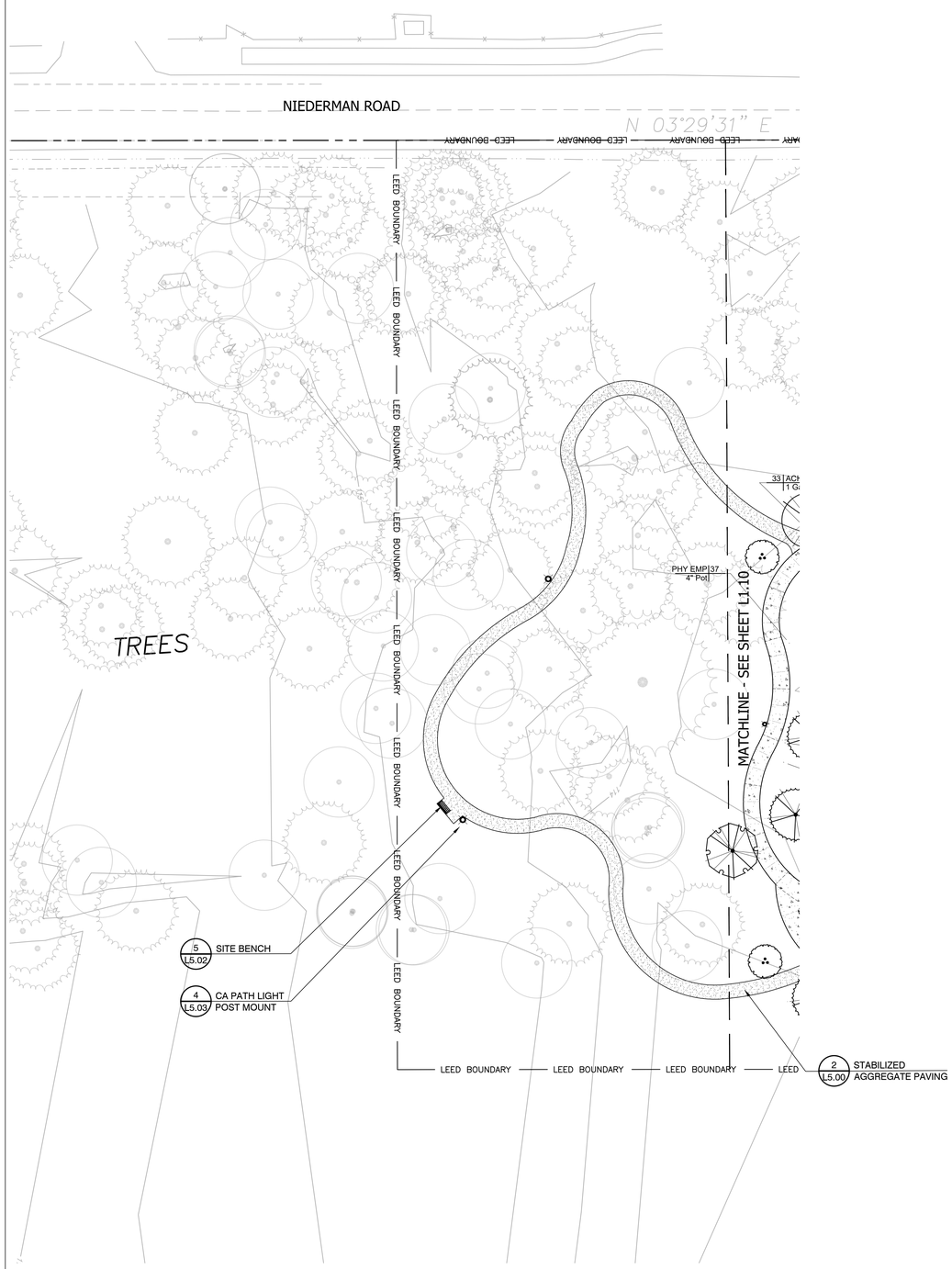
CONTENTS:

**LANDSCAPE MATERIALS PLAN**

| | |
|---|---|
| SCALE: | As indicated |
| DRAWN: | AD / AW / TL |
| CHECKED: | AW |
| PROJECT NO: | 2020006.100 |

SHEET:

**L1.10**




1 SITE MATERIALS PLAN

## MATERIALS NOTES

1. SEE SHEET L6.00 FOR MATERIALS SCHEDULE.
2. SET NEW PAVING FLUSH WITH EXISTING ADJACENT PAVING.
3. CENTER COBBLE AREA ON DOWNSPOUT, CURB CUT, OR CONALE, TYP.
4. SEE CIVIL DRAWINGS FOR PARKING LOT LAYOUT, GRADING, AND DETAIL INFORMATION.
5. PRESERVE AND PROTECT EXISTING SITE ELEMENTS TO REMAIN.
6. SEE CIVIL DRAWINGS FOR STORM DRAIN, INLETS, PIPING LOCATIONS, AND DETAILS.
7. SEE ARCHITECTURAL DRAWINGS FOR WALL DETAILS, TYP.
8. EXPANSION JOINT AND CONTROL JOINT LAYOUT IS DIAGRAMMATIC AND FOR PRICING PURPOSES ONLY. CONTRACTOR TO VERIFY JOINT LAYOUT IN FIELD WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
9. CONTRACTOR TO STAKE CONCRETE PAVING AND CURBS IN FIELD AND REVIEW WITH LANDSCAPE ARCHITECT PRIOR TO SETTING FORM WORK.
10. CENTER DRAIN OR COBBLE AREA ON DOWNSPOUT OR CANALE, TYP.
11. SITE FURNITURE; FINAL LOCATION TO BE DETERMINED IN FIELD WITH LANDSCAPE ARCHITECT AND PRINCIPAL.
12. CONFIRM EXTENTS OF FINISH MATERIAL IN FIELD WITH LANDSCAPE ARCHITECT.
13. SITE WALL; SEE ARCHITECTURAL PLANS FOR DETAILS; CONFIRM LAYOUT PRIOR TO CONSTRUCTION.
14. SEE INSET DIMENSION DRAWING TO RIGHT FOR CURVED SITE ELEMENT LAYOUT. LAYOUT DIMENSIONED TO OUTSIDE OF CURVED CENTERLINE. CURVES TO BE SMOOTH; CONFIRM LAYOUT IN FIELD WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.

## MATERIALS SCHEDULE

| SYMBOL | 22 PLUMBING DESCRIPTION | QTY | DETAIL | VE ITEM |
|---|---|---|---|---|
| | 500 GAL. CISTERN W/ VERTICAL SLAT SCREEN | 1 | 1,3,4/L5.01, | 1.1 |
| | HOSE SPIGOT CONNECTION W/ HANGER | 1 | 2/L5.01 | 1.1.6 |
| | CISTERN PUMP | 1 | 1/L5.01 | 1.1.2 |
| SYMBOL | 26 ELECTRICAL DESCRIPTION | QTY | DETAIL | |
| | PATH LIGHT (DARK SKIES) | 11 | 5/L5.03 | |
| SYMBOL | DESCRIPTION | ROCK QTY | DETAIL | |
| | BOULDER: ONE MAN | 11 | 3/L5.00 | 1.5 |
| | BOULDER: TWO MAN | 5 | 3/L5.00 | 1.5 |
| | BOULDER: THREE MAN | 3 | 3/L5.00 | 1.5 |
| | RIVER ROCK | 29 CY | 6/L5.00 | 1.2 |
| SYMBOL | CONCRETE DESCRIPTION | QTY | DETAIL | |
| | STABILIZED AGGREGATE PAVING | 2,471 SF | 2/L5.00 | 1.2 |
| | CIP CONCRETE PAVING | 9,078 SF | 1/L5.00 | |
| | BRICK SINGLE SOLDIER COURSE EDGE AND BANDING | 414 SF | 4,6/L5.00 | 1.3 |
| SYMBOL | SITE FURNISHINGS DESCRIPTION | QTY | DETAIL | |
| | ACCESSIBLE PLANTERS | 3 | 1/L5.02 | 1.4 |
| | SITE BENCH | 6 | 5/L5.02 | |
| | CEDAR GARDEN CHAIR | 2 | 3/L5.02 | |
| | CEDAR GARDEN BENCH | 1 | 4/L5.02 | |
| | TRASH AND RECYCLE CONTAINERS | 2 | 6/L5.02 | |
| | AGGREGATE ASH URN | 2 | SEE SPECS | |
| SYMBOL | SITE FURNISHINGS DESCRIPTION | QTY | DETAIL | |
| | WOVEN WILLOW HOOP LANDSCAPE EDGE | 94 LF | 2/L5.02 | NOT IN CONTRACT |
| | CEDAR PATIO TABLE AND CHAIR SET | 2 | | NOT IN CONTRACT |
| | BESELT 2 SPACE BIKE RACK | 3 | 7/L5.02 | |

## VALUE ENGINEERING NOTES

1. POTENTIAL COURTYARD VALUE ENGINEERING ELEMENTS:
   - 1.1. DEDUCT CISTERN AND ACCESSORIES
     - 1.1.1. CISTERN SCREEN
     - 1.1.2. PUMP
     - 1.1.3. ELECTRICAL OUTLET FOR PUMP, SEE ELECTRICAL PLANS
     - 1.1.4. PUMP SWITCH FROM WALL, SEE ELECTRICAL PLANS
     - 1.1.5. SCUPPER, SEE ARCHITECTURAL PLANS
     - 1.1.6. HOSE SPIGOT
   - 1.2. ALTERNATE: REPLACE CRUSHED GRAVEL CISTERN ACCESS PATH WITH RIVER ROCK
   - 1.3. DEDUCT: BRICK FROM COURTYARD PATIO.
   - 1.4. DEDUCT: CUSTOM ACCESSIBLE RAISED PLANTERS
   - 1.5. ALTERNATE: SALVAGE ALL BOULDERS FROM SITE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AUDREY WEST
LICENSE NO. 1313
EXPIRES ON 9-29-22


# The Chehalis Tribe Chehalis Elder Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

**BID DOCUMENTS**

| ISSUE DATE: | APRIL 16, 2021 |
|---|---|

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:

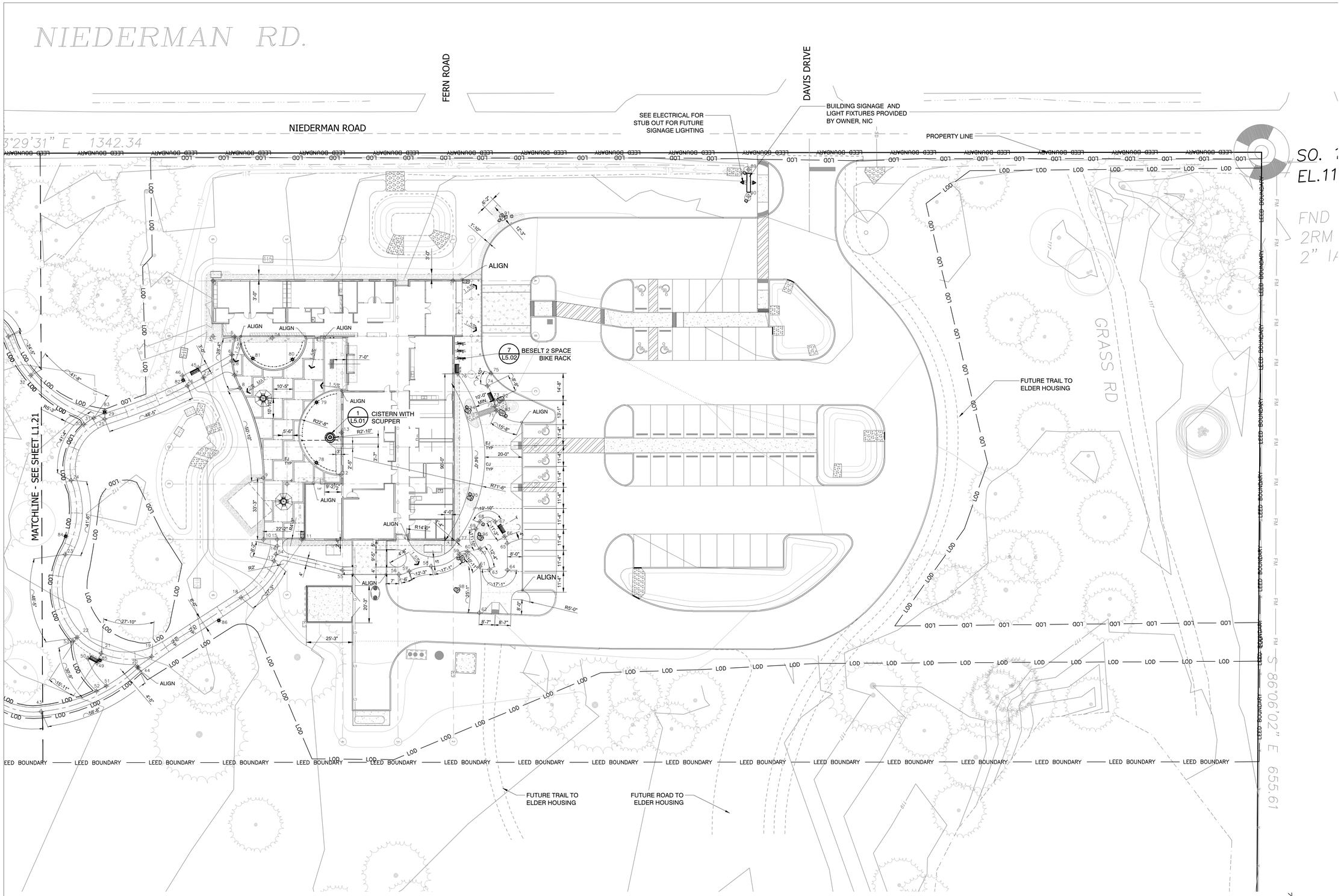
**LANDSCAPE MATERIALS PLAN**

| | |
|---|---|
| SCALE: | As indicated |
| DRAWN: | AD / AW / TL |
| CHECKED: | AW |
| PROJECT NO: | 2020006.100 |

SHEET:

**L1.11**

May 18, 2021 - 1:44pm




1 SITE LAYOUT PLAN

0 10 20 40
1 inch = 20 feet

NORTH

## LAYOUT NOTES

1. SEE SHEET L1.21 FOR NORTHING AND EASTING SCHEDULE AND LAYOUT NOTES.

CALL BEFORE YOU DIG

Apr 21, 2021 - 2:29pm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| | | |

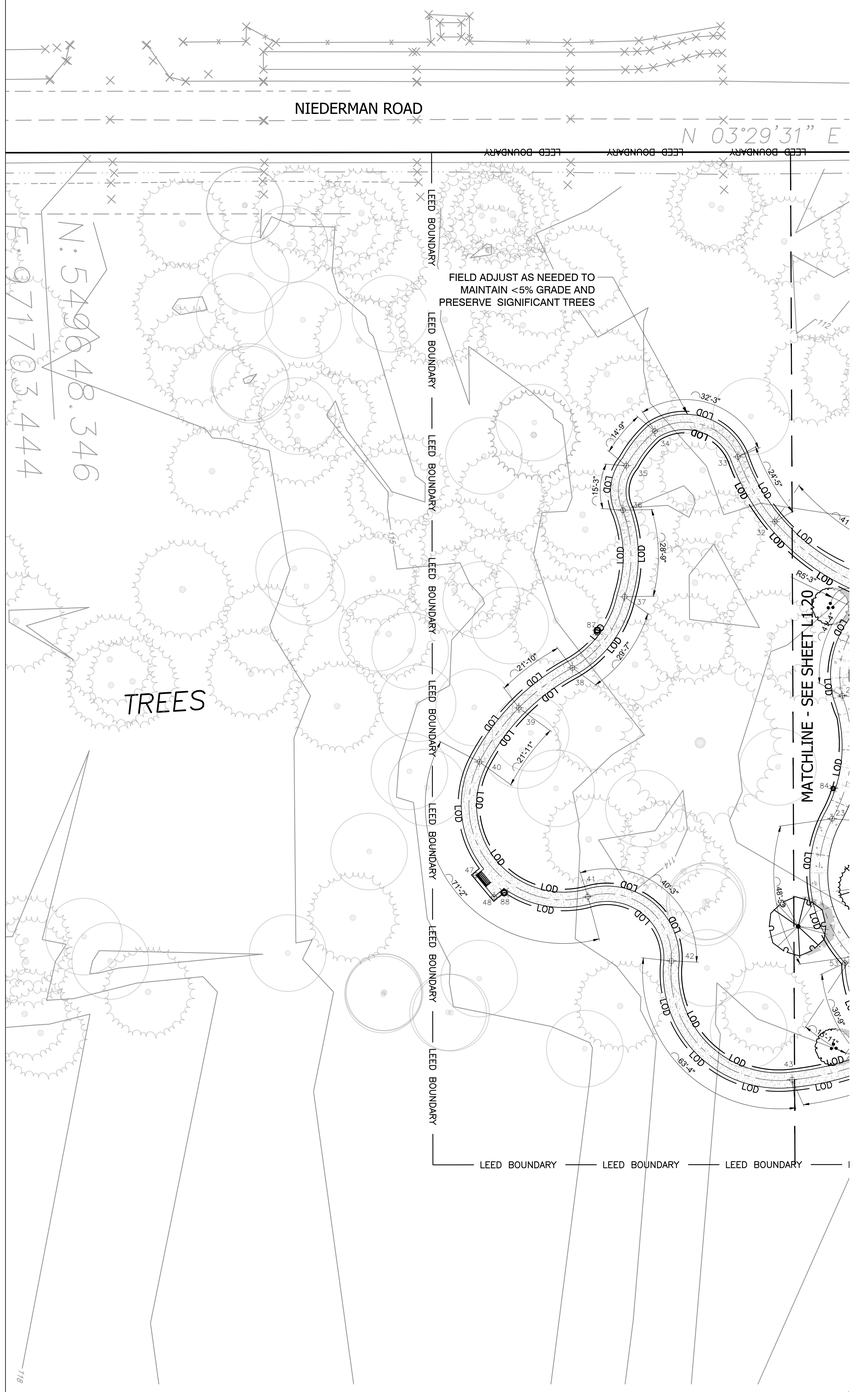
CONTENTS:

**SITE LAYOUT AND DIMENSIONING PLAN**

| | |
|---|---|
| SCALE: | As Indicated |
| DRAWN: | AD / AW / TL |
| CHECKED: | AW |
| PROJECT NO: | 2020006.100 |

SHEET:

**L1.20**




1 SITE LAYOUT PLAN

0 10 20 40
1 inch = 20 feet

NORTH

## NORTHING/EASTING POINT SCHEDULE

| POINT | DESCRIPTION | NORTHING | EASTING |
|---|---|---|---|
| 1 | BLDG GRID: 2A | N 550096'-0 13/16" | E 971798'-0 15/16" |
| 2 | BLDG GRID: 6A | N 549966'-3 11/16" | E 971790'-1 15/16" |
| 3 | BLDG GRID: 6B | N 549964'-5 13/16" | E 971820'-1 1/4" |
| 4 | BLDG GRID: 5E | N 549999'-6 7/16" | E 971902'-4 11/16" |
| 5 | PATIO EDGE | N 549976'-1 11/16" | E 971820'-11 5/8" |
| 6 | PATIO EDGE | N 549973'-11" | E 971830'-7 13/16" |
| 7 | PATIO EDGE | N 549974'-8 13/16" | E 971841'-10 7/8" |
| 8 | PATIO EDGE | N 549977'-3 5/16" | E 971848'-11 7/16" |
| 9 | PATIO EDGE | N 549986'-11 1/8" | E 971898'-4 7/16" |
| 10 | PATIO EDGE | N 549984'-10 13/16" | E 971931'-6 11/16" |
| 11 | PATIO EDGE | N 550005'-7 13/16" | E 971932'-9 7/8" |
| 12 | PATIO LANDSCAPE BED | N 550029'-0 7/16" | E 971899'-1 5/8" |
| 13 | PATIO LANDSCAPE BED ARCH | N 550030'-7 15/16" | E 971876'-5 1/2" |
| 14 | PATIO LANDSCAPE BED ARCH | N 549996'-6 5/16" | E 971822'-11 5/8" |
| 15 | CIP CONC TRAIL | N 549992'-5 1/8" | E 971932'-0 3/16" |
| 16 | CIP CONC TRAIL | N 549992'-2 1/8" | E 971935'-7 3/4" |
| 17 | CIP CONC TRAIL | N 549989'-11 1/16" | E 971943'-5 11/16" |
| 18 | CIP CONC TRAIL | N 549970'-11 5/8" | E 971962'-2 11/16" |
| 19 | CIP CONC TRAIL | N 549920'-8 1/8" | E 971991'-3" |
| 20 | CIP CONC TRAIL | N 549912'-6 3/4" | E 971996'-2 5/8" |
| 21 | CIP CONC TRAIL | N 549893'-6 5/16" | E 971987'-9 5/16" |
| 22 | CIP CONC TRAIL | N 549880'-11 1/4" | E 971978'-4" |
| 23 | CIP CONC TRAIL | N 549877'-4 1/8" | E 971933'-0 7/16" |
| 24 | CIP CONC TRAIL | N 549883'-1" | E 971893'-2 7/8" |
| 25 | CIP CONC TRAIL | N 549903'-1 3/4" | E 971861'-3 3/4" |
| 26 | CIP CONC TRAIL | N 549949'-0 1/2" | E 971846'-0 1/8" |
| 27 | CIP CONC TRAIL | N 549958'-0 1/16" | E 971842'-0 3/16" |
| 28 | CIP CONC TRAIL | N 549973'-9 5/8" | E 971834'-0 9/16" |
| 29 | GRAVEL TRAIL FLAIR | N 549903'-5 9/16" | E 971858'-1 1/4" |
| 30 | GRAVEL TRAIL FLAIR | N 549891'-9 3/4" | E 971863'-5 5/8" |
| 31 | APPROX. GRAVEL TRAIL CNTR | N 549897'-4" | E 971860'-3 9/16" |
| 32 | APPROX. GRAVEL TRAIL CNTR | N 549864'-7 11/16" | E 971835'-3" |
| 33 | APPROX. GRAVEL TRAIL CNTR | N 549853'-11 3/16" | E 971813'-5 1/8" |
| 34 | APPROX. GRAVEL TRAIL CNTR | N 549827'-5 7/8" | E 971803'-4 9/16" |
| 35 | APPROX. GRAVEL TRAIL CNTR | N 549817'-5 1/2" | E 971814'-0 11/16" |
| 36 | APPROX. GRAVEL TRAIL CNTR | N 549815'-5 13/16" | E 971828'-5 3/8" |
| 37 | APPROX. GRAVEL TRAIL CNTR | N 549814'-3 5/16" | E 971856'-7 3/4" |
| 38 | APPROX. GRAVEL TRAIL CNTR | N 549795'-10 3/8" | E 971878'-8 5/8" |
| 39 | APPROX. GRAVEL TRAIL CNTR | N 549777'-7 7/8" | E 971890'-7 13/16" |
| 40 | APPROX. GRAVEL TRAIL CNTR | N 549763'-8 15/16" | E 971907'-5 5/16" |
| 41 | APPROX. GRAVEL TRAIL CNTR | N 549796'-3 13/16" | E 971953'-5 3/4" |
| 42 | APPROX. GRAVEL TRAIL CNTR | N 549822'-2 3/4" | E 971976'-0 15/16" |
| 43 | APPROX. GRAVEL TRAIL CNTR | N 549859'-0 3/4" | E 972017'-1 5/8" |
| 44 | APPROX. GRAVEL TRAIL CNTR | N 549913'-0" | E 971996'-9 5/16" |
| 45 | CIP CONC BENCH PAD | N 549955'-5 7/16" | E 971836'-6 1/16" |
| 46 | CIP CONC BENCH PAD | N 549946'-7 3/4" | E 971840'-5 5/16" |
| 47 | CIP CONC BENCH PAD | N 549760'-3 15/16" | E 971944'-2 7/8" |
| 48 | CIP CONC BENCH PAD | N 549765'-9 9/16" | E 971951'-8 1/16" |
| 49 | CIP CONC BENCH PAD | N 549890'-11 1/4" | E 971992'-9 5/8" |
| 50 | CIP CONC BENCH PAD | N 549886'-0 7/8" | E 971990'-0 1/4" |
| 51 | CIP CONC TRAIL SPUR | N 549895'-2 1/8" | E 972005'-5 9/16" |
| 52 | CIP CONC TRAIL SPUR | N 549889'-8 3/8" | E 972008'-0 1/16" |
| 53 | CIP CONC TRAIL SPUR | N 549878'-6 15/16" | E 971980'-2 9/16" |
| 54 | CIP CONC TRAIL SPUR | N 549991'-3 1/2" | E 971940'-0 5/16" |
| 55 | CIP CONC TRAIL SPUR | N 550026'-8" | E 971950'-10 11/16" |
| 56 | CIP CONC PAVING @ SERVICE | N 550056'-11 1/2" | E 971955'-0 7/16" |
| 57 | CIP CONC PAVING @ SERVICE | N 550062'-8 9/16" | E 971953'-7 7/16" |
| 58 | CIP CONC PAVING @ SERVICE | N 550074'-8 1/16" | E 971951'-8 1/4" |
| 59 | CIP CONC PAVING @ SERVICE | N 550090'-2 1/8" | E 971946'-0 1/2" |
| 60 | CIP CONC PAVING @ SERVICE | N 550094'-10 7/16" | E 971944'-10 11/16" |
| 61 | CIP CONC ENTRY PLAZA PAVING | N 550100'-11 13/16" | E 971953'-5 7/8" |
| 62 | CIP CONC ENTRY PLAZA PAVING | N 550099'-1 13/16" | E 971978'-5 1/8" |
| 63 | CIP CONC ENTRY PLAZA PAVING | N 550106'-1 1/4" | E 971955'-4 5/8" |
| 64 | CIP CONC ENTRY PLAZA PAVING | N 550115'-9 1/16" | E 971956'-3 3/4" |
| 65 | CIP CONC ENTRY PLAZA PAVING | N 550116'-7 1/8" | E 971941'-10 9/16" |
| 66 | CIP CONC ENTRY PLAZA PAVING | N 550115'-5 7/8" | E 971938'-0 11/16" |
| 67 | CIP CONC ENTRY PLAZA PAVING | N 550110'-9 5/8" | E 971929'-9" |
| 68 | CIP CONC ENTRY PLAZA PAVING | N 550102'-5 5/16" | E 971929'-1 5/8" |
| 69 | CIP CONC ENTRY PLAZA PAVING | N 550100'-1 7/8" | E 971932'-11 5/16" |
| 70 | CIP CONC ENTRY PLAZA PAVING | N 550101'-8 1/16" | E 971943'-11 3/8" |
| 71 | CIP CONC ENTRY PLAZA PAVING | N 550115'-2 3/4" | E 971869'-9 9/16" |
| 72 | CIP CONC ENTRY PLAZA PAVING | N 550114'-5 13/16" | E 971867'-2 3/4" |
| 73 | CIP CONC ENTRY PLAZA PAVING | N 550114'-6 1/2" | E 971864'-1 7/8" |
| 74 | CIP CONC ENTRY PLAZA PAVING | N 550111'-2 1/16" | E 971856'-0 5/8" |
| 75 | CIP CONC ENTRY PLAZA PAVING | N 550113'-6 5/8" | E 971849'-4 9/16" |
| 76 | CIP CONC ENTRY PLAZA PAVING | N 550095'-5 11/16" | E 971848'-6 1/16" |
| 77 | CIP CONC ENTRY PLAZA PAVING | N 550089'-11 13/16" | E 971938'-5 3/8" |
| 78 | PATH LIGHT @ COURTYARD | N 550016'-1 5/8" | E 971891'-10 7/8" |
| 79 | PATH LIGHT @ COURTYARD | N 550018'-3 1/4" | E 971859'-2 3/4" |
| 80 | PATH LIGHT @ COURTYARD | N 550006'-7 5/8" | E 971835'-4 1/2" |
| 81 | PATH LIGHT @ COURTYARD | N 549985'-4 1/8" | E 971833'-5 9/16" |
| 82 | PATH LIGHT @ CONC TRAIL | N 549946'-10 5/16" | E 971842'-10 3/8" |
| 83 | PATH LIGHT @ CONC TRAIL | N 549903'-5 9/16" | E 971856'-11" |
| 84 | PATH LIGHT @ CONC TRAIL | N 549878'-3 1/4" | E 971923'-2 5/8" |
| 85 | PATH LIGHT @ CONC TRAIL | N 549892'-7" | E 971991'-5 13/16" |
| 86 | PATH LIGHT @ CONC TRAIL | N 549958'-1 13/16" | E 971973'-10 9/16" |
| 87 | PATH LIGHT @ GRAVEL TRAIL | N 549804'-8 15/16" | E 971867'-0 1/16" |
| 88 | PATH LIGHT @ GRAVEL TRAIL | N 549769'-1 7/8" | E 971950'-5 15/16" |
| 89 | 2-MAN BOULDER | N 550259'-5 15/16" | E 971747'-11 5/8" |
| 90 | 2-MAN BOULDER | N 550258'-6 3/8" | E 971762'-4 5/8" |
| 91 | 3-MAN BOULDER | N 550124'-9 1/16" | E 971765'-1 3/16" |
| 92 | 2-MAN BOULDER | N 550117'-8 15/16" | E 971863'-8 1/2" |
| 93 | 2-MAN BOULDER | N 550118'-4 11/16" | E 971871'-0 11/16" |
| 94 | 3-MAN BOULDER | N 550099'-5 15/16" | E 971868'-11 1/2" |
| 95 | 3-MAN BOULDER | N 550098'-1 1/2" | E 971916'-3 9/16" |
| 96 | 2-MAN BOULDER | N 550102'-2 1/4" | E 971937'-10 1/2" |
| 97 | 2-MAN BOULDER | N 550091'-9 7/8" | E 971948'-10 1/16" |
| 98 | 2-MAN BOULDER | N 550087'-8 9/16" | E 971965'-3 1/4" |

## LAYOUT NOTES

1. ON-SITE VERIFICATION OF ALL DIMENSIONS AND CONDITIONS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALE, LARGER SCALE OVER SMALLER SCALE, ADDENDA AND CLARIFICATIONS OVER PREVIOUS DOCUMENTS.
2. CONTRACTOR TO LAY OUT HARDSCAPE ELEMENTS AND VERIFY LAYOUT WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. HARDSCAPE ELEMENTS ARE DIMENSIONED ON THE LANDSCAPE LAYOUT PLAN. ANY DISCREPANCIES OR CONFLICTS WITH EXISTING CONDITIONS OR OTHER DRAWINGS SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT IMMEDIATELY FOR PROPER CLARIFICATION OR ADJUSTMENT.
3. FOR DIMENSIONS OF EXISTING BUILDINGS, PROPOSED BUILDING IMPROVEMENTS, AND RELATED WORK, REFER TO THE ARCHITECTURAL DRAWINGS.
4. WHERE DIMENSIONS ARE CALLED AS "EQUAL (EQ)," SPACE REFERENCED ITEMS EQUALLY, MEASURED TO THEIR CENTER LINES.
5. MEASUREMENTS ARE TO FACE OF BUILDING, WALL OR FIXED SITE IMPROVEMENT. DIMENSIONS TO CENTER LINES IS AS INDICATED.
6. INSTALL INTERSECTING ELEMENTS AT 90 DEGREE ANGLES TO EACH OTHER UNLESS OTHERWISE NOTED.
7. PROVIDE EXPANSION JOINTS WHERE CONCRETE FLATWORK OR BRICK SOLDIER COURSE MEETS VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS AND BUILDING ELEMENTS.
8. ALL WALKWAYS SHALL BE LOCATED FROM FINISHED FACE OF BUILDINGS.
9. ALL WALKWAYS SHALL BE 6'-0" WIDE UNLESS OTHERWISE NOTED.
10. EXPANSION JOINTS IN CONCRETE WALKWAYS SHALL BE LOCATED TWENTY FEET 20'-0" O.C. MAXIMUM OR AS INDICATED.
11. ALL RADII OF WALKWAY INTERSECTIONS ON THE PLANS SHALL BE AS INDICATED ON THE PLANS.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OAKVILLE, WA 98568

THE CHEHALIS TRIBE

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ISSUE DATE: APRIL 16, 2021

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| | | |

CONTENTS:

**SITE LAYOUT AND DIMENSIONING PLAN**

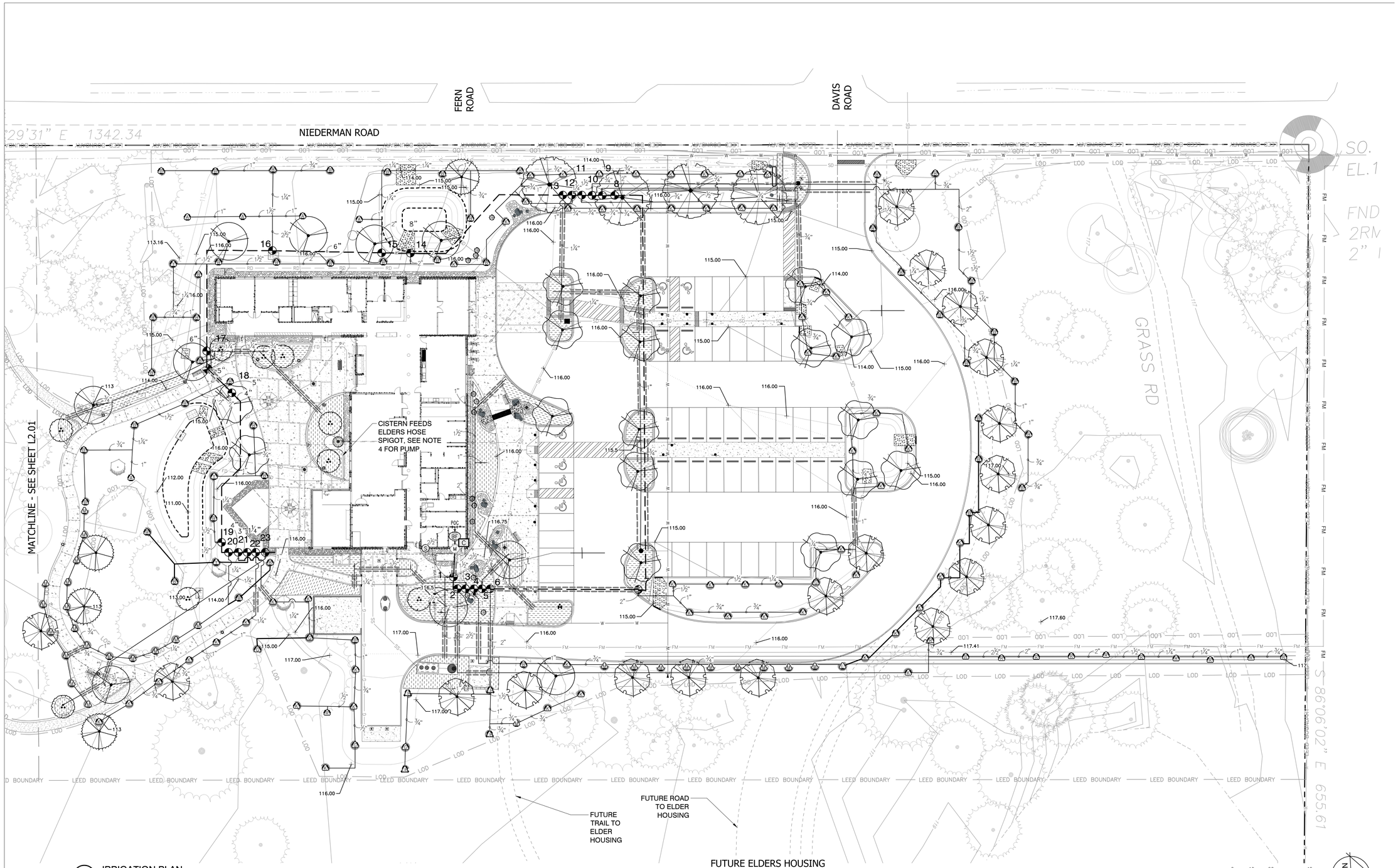
| | |
|---|---|
| SCALE: | As indicated |
| DRAWN: | AD / AW / TL |
| CHECKED: | AW |
| PROJECT NO: | 2020006.100 |

SHEET:

**L1.21**

CALL BEFORE YOU DIG

Apr 21, 2021 - 2:30pm




1 IRRIGATION PLAN

VALVE KEY:

| Valve | Flow | Size |
|---|---|---|
| 1 | 16.6 | 2" |
| 2 | 14.7 | 2" |
| 3 | 6.53 | 2" |
| 4 | 5.04 | 2" |
| 5 | 14.1 | 2" |
| 6 | 7.42 | 2" |
| 7 | 9.40 | 1" |
| 8 | 11.0 | 2" |
| 9 | 5.75 | 2" |
| 10 | 7.12 | 2" |
| 11 | 2.01 | 2" |
| 12 | 11.3 | 2" |
| 13 | 13.4 | 2" |
| 14 | 15.7 | 2" |
| 15 | 8.33 | 2" |
| 16 | 15.0 | 2" |
| 17 | 15.3 | 2" |
| 18 | 10.5 | 2" |
| 19 | 6.20 | 2" |
| 20 | 5.73 | 2" |
| 21 | 7.26 | 2" |
| 22 | 11.7 | 2" |
| 23 | 4.04 | 2" |
| 24 | 2.14 | 1" |

GENERAL NOTES:

1. SEE SHEET L2.01 FOR IRRIGATION NOTES.
2. SEE SHEET L2.10 FOR IRRIGATION SCHEDULES.

CALL BEFORE YOU DIG

Apr 21, 2021 - 2:31pm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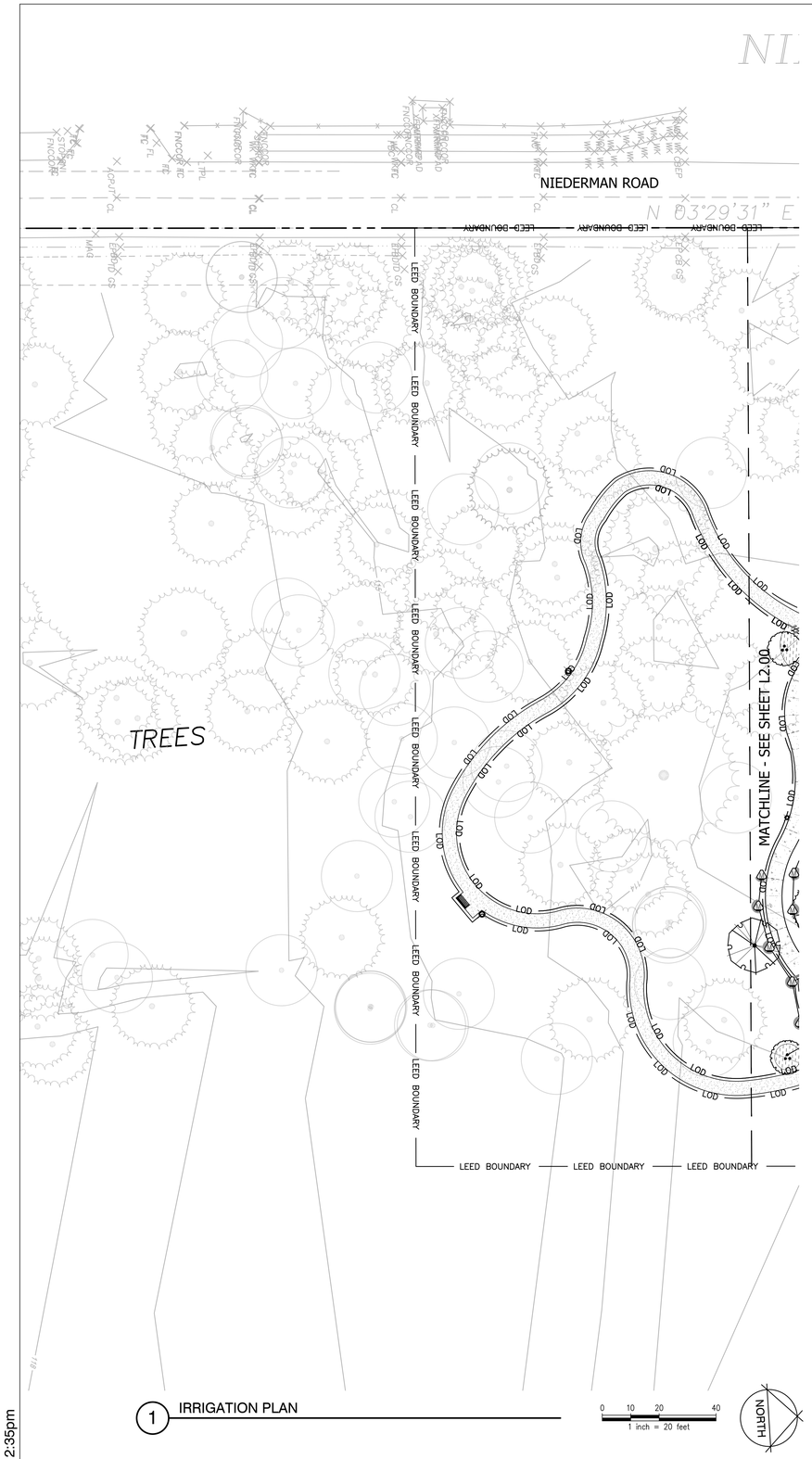
CONTENTS:

**IRRIGATION PLAN**

| | |
|---|---|
| SCALE: | As indicated |
| DRAWN: | AD / AW / TL |
| CHECKED: | AW |
| PROJECT NO: | 2020006.100 |

SHEET:

**L2.00**




1 IRRIGATION PLAN

## GENERAL NOTES:

1. IRRIGATION TO BE AN IN-GROUND TEMPORARY SYSTEM TO BE TURNED OFF AFTER TWO GROWING SEASONS (TWO YEARS).
   1.1. IN-GROUND SYSTEM IS LEFT IN PLACE SO THAT IT CAN BE TURNED ON IN THE FUTURE DURING DROUGHT YEARS.
2. SEE SHEET L2.10 FOR IRRIGATION SCHEDULE AND NOTES.
3. NEED TO CONFIRM AVAILABLE WATER PRESSURE AND METER LOCATION WITH 2020 DESIGN.
4. CISTERN: BUSHMAN 1HP 68PSI GRUNDFOS RAINWATER HARVESTING PUMP AND CONNECTION KIT TO BE PROVIDED.
5. FINAL IRRIGATION DESIGN WILL BE PROVIDED AFTER AVAILABLE PSI HAS BEEN DETERMINED.

## CISTERN NOTES:

1. APPROX. CONTRIBUTING ROOF.AREA: 3,323 SF
2. CISTERN CAPACITY: 420 GALLONS.
3. PURPOSE: ELDERS TO BE ABLE TO HAND WATER THEIR ACCESSIBLE PLANTERS.
4. OVERFLOW IS PIPED STORMWATER PIPE THAT DISCHARGES TO RAIN GARDEN ADJACENT TO COURTYARD.
5. PORTABLE PUMP TO BE PLACED AS SHOWN. PUMP TO BE DISCONNECTED AND STORED INSIDE DURING THE WINTER MONTHS OF NOVEMBER THROUGH APRIL.

## IRRIGATION NOTES

1. IRRIGATION SYSTEM TO CONNECT TO FIRE LINE AFTER THE FIRE BACKFLOW PREVENTER.
2. VERIFY STATIC WATER PRESSURE AT POC PRIOR TO BEGINNING WORK. SUBMIT RESULTS TO THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF WORK. CONFIRM AVAILABLE WATER PRESSURE IS SUFFICIENT TO OPERATE SYSTEM EFFICIENTLY. CONTRACTOR SHALL SIZE BOOSTER PUMP (IF NECESSARY) TO ACHIEVE REQUIREMENTS PER CONTRACT DOCUMENTS.
3. CONTRACTOR TO VERIFY THAT SYSTEM COMPLIES WITH LEED REQUIREMENTS PER SPECIFICATION 328400 MAKING ADJUSTMENTS AS REQUIRED.
4. VALVES, MAIN LINE, LATERAL LINES AND POINT OF CONNECTION ARE SHOWN SCHEMATICALLY FOR FUNCTIONAL CLARITY, AND NOT TO BE CONSTRUED AS ACTUAL LAYOUT. ALL SPRINKLER ARCS, NOZZLE SIZES AND LOCATIONS TO BE ADJUSTED TO PROVIDE HEAD-TO-HEAD COVERAGE AND TO ELIMINATE OVER-SPRAY ON ADJACENT PAVEMENT, BUILDINGS, FENCES, ETC.
5. ONCE PSI AT SOURCE HAS BEEN VERIFIED, CONTRACTOR TO ENSURE THE CORRECT NUMBER OF VALVES AND ASSOCIATED CONTROLLER ARE SUPPLIED.
6. MAINLINE TO BE BURIED 18" MIN. DEPTH.
7. FLUSH VALVES AND AIR RELIEF VALVES ARE SCHEMATICALLY LOCATED ON PLAN. CONTRACTOR SHALL VERIFY HIGH AND LOW SPOTS IN THE SYSTEM TO ACCURATELY LOCATE AND ADD VALVES AS NEEDED.
8. IRRIGATION POINT OF CONNECTION (POC) AND CONTROLLER SHALL BE LOCATED IN MECHANICAL ROOM AS SHOWN ON PLANS. COORDINATE WITH OTHER DISCIPLINES FOR WATER MAIN CONNECTION, ROUTING OF PIPING, AND ELECTRICAL SOURCE AND WIRING FOR CONTROLLER UNIT.
9. ALIGN VALVE BOXES SQUARE TO EACH OTHER AND WITH EDGE OF ADJACENT CURB, PAVEMENT, OR BUILDING. LOCATE VALVE BOXES MIN 12" FROM CURBS, WALKS, AND PATHWAYS.
10. COORDINATE POWER TO CONTROLLER AND CONTROL COMPONENTS. TEMPORARY POWER MAY BE REQUIRED FOR SYSTEMS OPERATION.
11. CONTRACTOR TO PROVIDE EXTRA CAUTION WHILE WORKING AROUND (AND WITHIN, IF NECESSARY) THE CRITICAL ROOT ZONE OF EXISTING TREES THAT ARE TO REMAIN. SEE PLANTING PLAN DRAWINGS FOR LOCATION OF TREES TO BE PROTECTED.
12. ALL WORK WITHIN CRITICAL ROOT ZONES OF EXISTING TREES SHALL BE IN ACCORDANCE WITH SPECIFICATIONS SECTION 01 56 39 ON TREE PROTECTION. ROUTE IRRIGATION LINES AROUND OR UNDER EXISTING TREE ROOTS, OR AS DETAILED IN THE SPECIFICATIONS. TRENCHES HAVING EXPOSED TREE ROOTS SHALL BE BACK FILLED WITHIN 24 HOURS UNLESS ADEQUATELY PROTECTED BY MOIST SOIL OR MULCH AS APPROVED BY PROJECT ENGINEER. AVOID CUTTING ROOTS.
13. ALL LATERAL LINES ARE ASSUMED TO BE CLASS 200 PVC AND SHALL BE SIZED BASED ON FOLLOWING FLOW VOLUMES:

| | |
|---|---|
| 0-10 GPM: 3/4" | 26-35 GPM: 1-1/2" |
| 10-16 GPM: 1" | 35-55 GPM: 2" |
| 16-26 GPM: 1-1/4" | 55-80 GPM: 2-1/2" |

14. SLEEVING IS REQUIRED FOR ALL IRRIGATION MAIN LINES, LATERALS AND CONTROL WIRES UNDER NEW AND EXISTING PAVEMENTS, WALLS, CURBS, ETC. SLEEVING PIPE TO GO FROM PLANTING BED TO PLANTING BED. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF SLEEVING INSTALLATION AND SPECIFIC LOCATIONS FOR COMPLETE INSTALLATION OF WORK. ALL SLEEVING SHALL BE AS INDICATED ON DRAWINGS. IF NOT SHOWN, SLEEVE SHALL BE 2 TIMES THE DIAMETER OF THE INSERTED IRRIGATION PIPE.
15. MAIN LINE PIPING LAYOUT, SLEEVES, AND VALVE LOCATIONS SHALL BE STAKED IN FIELD BY CONTRACTOR. STAKING AND PRESSURE SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO INSTALLATION.
16. ALL PLANTED AREAS TO BE IRRIGATED AS INDICATED ON PLAN. CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS TO THE IRRIGATION PLAN TO ASSURE COMPLETE AND ADEQUATE HEAD TO HEAD COVERAGE AND TO ELIMINATE OVERSPRAY ON ADJACENT PAVEMENT, BUILDINGS, FENCES, ETC. SEE CORRESPONDING PLANTING PLAN FOR LAYOUT.
17. IRRIGATION IS TEMPORARY AND SHALL BE REMOVED AT CLIENT'S DIRECTION AFTER ONE YEAR TO MEET LEED® REQUIREMENTS.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LICENSE NO. 1313
EXPIRES ON 9-29-22


# The Chehalis Tribe
# Chehalis Elder Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:

**IRRIGATION PLAN & NOTES**

| | |
|---|---|
| SCALE: | As indicated |
| DRAWN: | AD / AW / TL |
| CHECKED: | AW |
| PROJECT NO: | 2020006.100 |

SHEET:

**L2.01**

CALL BEFORE YOU DIG

Apr 21, 2021 - 2:35pm

## IRRIGATION SCHEDULE

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION | QTY | PSI | DETAIL |
|---|---|---|---|---|
| | HUNTER MP1000 PROS-12-PRS30-CV SHRUB ROTATOR, 12" POP-UP WITH CHECK VALVE, PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC. | 29 | 30 | 2/L5.11 |
| | HUNTER MP2000 PROS-12-PRS30-CV SHRUB ROTATOR, 12" POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC. | 76 | 30 | |
| | HUNTER MP3000 PROS-12-PRS30-CV SHRUB ROTATOR, 12" POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. B=BLUE ADJ ARC 90-210, Y=YELLOW ADJ ARC 210-270, A=GRAY 360 ARC. | 56 | 30 | |
| | HUNTER MP3500 PROS-12-PRS30-CV SHRUB ROTATOR, 12" POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. LB=LIGHT BROWN ADJUSTABLE ARC, 90-210. | 4 | 30 | |

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION | QTY |
|---|---|---|
| | AREA TO RECEIVE DRIPLINE<br>DRIP LINE: HUNTER HDL-06-12-PC<br>HDL-06-12-PC: HUNTER DRIPLINE WITH 0.6 GPH FLOW. LIGHT BROWN TUBING WITH GRAY STRIPING. EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. INSTALL WITH HUNTER PLD BARBED OR PLD-LOC FITTINGS. | 6,905 L.F. |

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION | QTY | DETAIL |
|---|---|---|---|
| | CONTROL VALVE: HUNTER ICV-G-BSP-DC 1", 1-1/2", 2", AND 3" PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH BSP THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE. WITH DC LATCHING SOLENOID FACTORY INSTALLED OPTION. | 24 | 1/L5.11 |
| | ISOLATION SHUT-OFF VALVE | 1 | 4/L5.10 |
| M | MASTER VALVE: HUNTER ICV-G-BSP-DC 3" 1", 1-1/2", 2", AND 3" PLASTIC ELECTRIC MASTER VALVE, GLOBE CONFIGURATION, WITH BSP THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE. WITH DC LATCHING SOLENOID FACTORY INSTALLED OPTION. | 1 | 3/L5.10 |
| BF | BUCKNER-SUPERIOR AVB 1" 3/4", 1", 1-1/4", 1-1/2", AND 2" RED BRASS ATMOSPHERIC VACUUM BREAKER. | 1 | 2/L5.10 |
| C | HUNTER I2C-2400-PL 24 STATION OUTDOOR MODULAR CONTROLLER. WITH TWO ICM-800 MODULE. COMMERCIAL USE. PLASTIC CABINET. | 1 | 6/L5.10 |
| S | HUNTER MWS-FR WEATHER STATION WITH RAIN SENSOR, WIND SENSOR AND FREEZE SENSOR, 120 VAC, 5 AMP. 5 YEAR WARRANTY. | 1 | 7/L5.10 |
| POC | POINT OF CONNECTION 2-1/2" | 1 | |
| | IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 | 5,345 L.F. | |
| | IRRIGATION MAINLINE: PVC SCHEDULE 80 | 773.3 L.F. | |
| | PIPE SLEEVE: PVC SCHEDULE 40 | 680.3 L.F. | |

Valve Callout

## VALVE SCHEDULE

| NUMBER | MODEL | SIZE | TYPE | GPM | HEADS | WIRE | DESIGN PSI | FRICTION LOSS | VALVE LOSS | PSI | PSI @ POC | HEAD ELEV | VALVE ELEV | PRECIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | 2" | AREA FOR DRIPLINE | 16.58 | 1,658 L.F. | 30.1 | 30 | 0.05 | 0.8 | 31.07 | 33.47 | 0.50 ft | -0.25 ft | 0.96 in/h |
| 2 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | 2" | SHRUB ROTARY | 14.72 | 12 | 38.3 | 30 | 0.31 | 0.8 | 31.59 | 33.99 | 1.10 ft | -0.25 ft | 0.2 in/h |
| 3 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | 2" | AREA FOR DRIPLINE | 6.53 | 653.8 L.F. | 42.6 | 30 | 0.06 | 0.8 | 31.08 | 33.48 | 0.50 ft | -0.25 ft | 0.96 in/h |
| 4 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | 2" | SHRUB ROTARY | 5.04 | 20 | 47.1 | 30 | 0.89 | 0.8 | 31.47 | 33.87 | -0.50 ft | -0.25 ft | 0.2 in/h |
| 5 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | 2" | AREA FOR DRIPLINE | 14.12 | 1,413 L.F. | 51.2 | 30 | 0.11 | 0.8 | 30.91 | 33.41 | 0.00 ft | 0.00 ft | 0.96 in/h |
| 6 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | 2" | SHRUB ROTARY | 7.42 | 8 | 55.4 | 30 | 0.21 | 0.8 | 31.12 | 33.63 | 0.25 ft | 0.00 ft | 0.22 in/h |
| 7 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | 1" | SHRUB ROTARY | 9.40 | 15 | 132.4 | 30 | 0.28 | 2.94 | 33.66 | 35.42 | 1.00 ft | -1.75 ft | 0.25 in/h |
| 8 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | 2" | SHRUB ROTARY | 10.96 | 7 | 355.9 | 30 | 0.4 | 0.8 | 31.21 | 32.57 | 0.00 ft | -2.75 ft | 0.19 in/h |
| 9 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | 2" | SHRUB ROTARY | 5.75 | 6 | 362.4 | 30 | 3.82 | 0.8 | 35.48 | 36.85 | 2.00 ft | -2.75 ft | 0.22 in/h |
| 10 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | 2" | SHRUB ROTARY | 7.12 | 5 | 367.8 | 30 | 0.37 | 0.8 | 32.03 | 33.4 | 2.00 ft | -2.75 ft | 0.19 in/h |
| 11 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | 2" | AREA FOR DRIPLINE | 2.01 | 201.3 L.F. | 373.0 | 30 | 0.3 | 0.8 | 30.67 | 32.9 | -1.00 ft | -0.75 ft | 0.96 in/h |
| 12 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | 2" | SHRUB ROTARY | 11.34 | 19 | 378.2 | 30 | 1.23 | 0.8 | 32.03 | 34.26 | 0.00 ft | -0.75 ft | 0.28 in/h |
| 13 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | 2" | AREA FOR DRIPLINE | 13.42 | 1,342 L.F. | 382.9 | 30 | 2.32 | 0.8 | 33.12 | 35.35 | 0.00 ft | -0.75 ft | 0.96 in/h |
| 14 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | 2" | SHRUB ROTARY | 15.74 | 11 | 475.6 | 30 | 0.35 | 0.8 | 31.58 | 33.39 | 1.00 ft | -1.75 ft | 0.24 in/h |
| 15 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | 2" | SHRUB ROTARY | 8.33 | 5 | 490.6 | 30 | 0.13 | 0.8 | 30.93 | 33.17 | 0.00 ft | -0.75 ft | 0.19 in/h |
| 16 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | 2" | SHRUB ROTARY | 14.96 | 7 | 547.4 | 30 | 0.13 | 0.8 | 30.93 | 33.19 | 0.00 ft | -0.75 ft | 0.25 in/h |
| 17 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | 2" | AREA FOR DRIPLINE | 15.29 | 1,528 L.F. | 633.8 | 30 | 0.33 | 0.8 | 31.56 | 33.41 | 1.00 ft | -1.75 ft | 0.96 in/h |
| 18 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | 2" | SHRUB ROTARY | 10.52 | 6 | 661.0 | 30 | 0.17 | 0.8 | 31.4 | 33.25 | 1.00 ft | -1.75 ft | 0.24 in/h |
| 19 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | 2" | SHRUB ROTARY | 6.20 | 4 | 744.5 | 30 | 0.1 | 0.8 | 30.89 | 32.35 | 0.00 ft | -2.75 ft | 0.21 in/h |
| 20 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | 2" | SHRUB ROTARY | 5.73 | 20 | 753.3 | 30 | 0.44 | 0.8 | 30.8 | 32.27 | -1.00 ft | -2.75 ft | 0.21 in/h |
| 21 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | 2" | SHRUB ROTARY | 7.26 | 11 | 758.3 | 30 | 0.72 | 0.8 | 32.81 | 34.28 | 3.00 ft | -2.75 ft | 0.23 in/h |
| 22 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | 2" | SHRUB ROTARY | 11.71 | 3 | 763.1 | 30 | 0.09 | 0.8 | 31.76 | 33.23 | 2.00 ft | -2.75 ft | 0.25 in/h |
| 23 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | 2" | SHRUB ROTARY | 4.04 | 6 | 767.5 | 30 | 0.17 | 0.8 | 30.1 | | -2.00 ft | -0.75 ft | 0.19 in/h |
| 24 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | 1" | AREA FOR DRIPLINE | 2.14 | 214.7 L.F. | 772.4 | 30 | 0.12 | 2.14 | 30.96 | | -3.00 ft | 0.00 ft | 0.96 in/h |
| | Common Wire | | | | | 773.3 | | | | | | | | |

## WATERING SCHEDULE

| NUMBER | MODEL | TYPE | PRECIP | IN./WEEK | MIN./WEEK | GAL./WEEK | GAL./DAY |
|---|---|---|---|---|---|---|---|
| 1 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | AREA FOR DRIPLINE | 0.96 in/h | 0.78 | 49 | 812.4 | 406.2 |
| 2 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | SHRUB ROTARY | 0.2 in/h | 0.78 | 236 | 3,473 | 1,737 |
| 3 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | AREA FOR DRIPLINE | 0.96 in/h | 0.78 | 49 | 320.0 | 160.0 |
| 4 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | SHRUB ROTARY | 0.2 in/h | 0.78 | 239 | 1,205 | 602.3 |
| 5 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | AREA FOR DRIPLINE | 0.96 in/h | 0.78 | 49 | 691.9 | 345.9 |
| 6 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | SHRUB ROTARY | 0.22 in/h | 0.78 | 209 | 1,550 | 775.1 |
| 7 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | SHRUB ROTARY | 0.25 in/h | 0.78 | 189 | 1,777 | 888.7 |
| 8 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | SHRUB ROTARY | 0.19 in/h | 0.78 | 245 | 2,686 | 1,343 |
| 9 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | SHRUB ROTARY | 0.22 in/h | 0.78 | 216 | 1,242 | 620.9 |
| 10 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | SHRUB ROTARY | 0.19 in/h | 0.78 | 246 | 1,752 | 876.1 |
| 11 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | AREA FOR DRIPLINE | 0.96 in/h | 0.78 | 49 | 98.5 | 49.2 |
| 12 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | SHRUB ROTARY | 0.28 in/h | 0.78 | 167 | 1,894 | 946.8 |
| 13 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | AREA FOR DRIPLINE | 0.96 in/h | 0.78 | 49 | 657.6 | 328.8 |
| 14 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | SHRUB ROTARY | 0.24 in/h | 0.78 | 196 | 3,085 | 1,543 |
| 15 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | SHRUB ROTARY | 0.19 in/h | 0.78 | 249 | 2,074 | 1,037 |
| 16 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | SHRUB ROTARY | 0.25 in/h | 0.78 | 189 | 2,828 | 1,414 |
| 17 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | AREA FOR DRIPLINE | 0.96 in/h | 0.78 | 49 | 749.2 | 374.6 |
| 18 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | SHRUB ROTARY | 0.24 in/h | 0.78 | 198 | 2,082 | 1,041 |
| 19 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | SHRUB ROTARY | 0.21 in/h | 0.78 | 225 | 1,396 | 697.9 |
| 20 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | SHRUB ROTARY | 0.21 in/h | 0.78 | 219 | 1,254 | 626.9 |
| 21 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | SHRUB ROTARY | 0.23 in/h | 0.78 | 203 | 1,474 | 736.9 |
| 22 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | SHRUB ROTARY | 0.25 in/h | 0.78 | 185 | 2,166 | 1,083 |
| 23 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | SHRUB ROTARY | 0.19 in/h | 0.78 | 250 | 1,009 | 504.5 |
| 24 | CONTROL VALVE: HUNTER ICV-G-BSP-DC | AREA FOR DRIPLINE | 0.96 in/h | 0.78 | 49 | 104.9 | 52.4 |
| | | TOTALS: | | | 4,004 | 36,381 | 18,191 |

## CRITICAL ANALYSIS

| | |
|---|---|
| Generated: | 2021-04-06 19:23 |
| P.O.C. NUMBER: 01 | |
| Water Source Information: | |
| FLOW AVAILABLE | |
| Point of Connection Size: | 2-1/2" |
| Flow Available: | 112.10 gpm |
| PRESSURE AVAILABLE | |
| Static Pressure at POC: | 37.00 psi |
| Pressure Available: | 37.00 psi |
| DESIGN ANALYSIS | |
| Maximum Multi-valve Flow: | 112.10 gpm |
| Flow Available at POC: | 112.10 gpm |
| Residual Flow Available: | 0.00 gpm |
| Critical Station: | 10 |
| Design Pressure: | 30.00 psi |
| Friction Loss: | 3.63 psi |
| Fittings Loss: | 0.19 psi |
| Elevation Loss: | 0.87 psi |
| Loss through Valve: | 0.80 psi |
| Pressure Req. at Critical Station: | 35.48 psi |
| Loss for Fittings: | 0.01 psi |
| Loss for Main Line: | 0.05 psi |
| Loss for POC to Valve Elevation: | -1.19 psi |
| Loss for Backflow: | 0.00 psi |
| Loss for Master Valve: | 2.50 psi |
| Critical Station Pressure at POC: | 36.85 psi |
| Pressure Available: | 37.00 psi |
| Residual Pressure Available: | 0.15 psi |


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# The Chehalis Tribe Chehalis Elder Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:

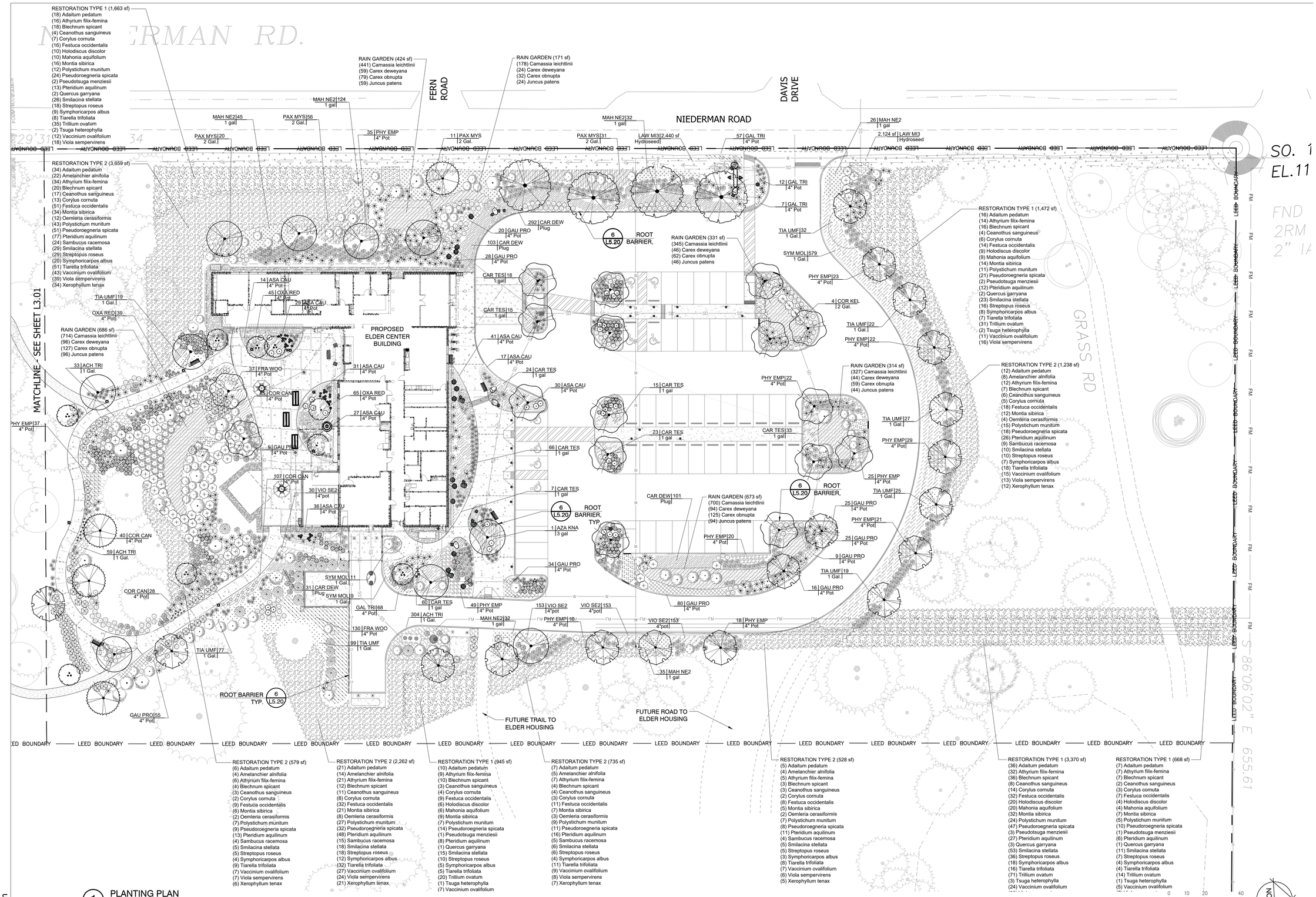
**IRRIGATION SCHEDULES**

SCALE: As indicated
DRAWN: AD / AW / TL
CHECKED: AW
PROJECT NO: 2020006.100

SHEET:

**L2.10**

Apr 21, 2021 - 2:55pm




1 PLANTING PLAN

## LANDSCAPE PLANTING GENERAL NOTES

1. SEE SHEET L3.01 FOR PLANTING NOTES AND TREE PLACEMENT NOTES.
2. SEE SHEET L3.10 FOR PLANTING SCHEDULE.

CALL BEFORE YOU DIG

Apr 21, 2021 - 2:56pm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THE CHEHALIS TRIBE

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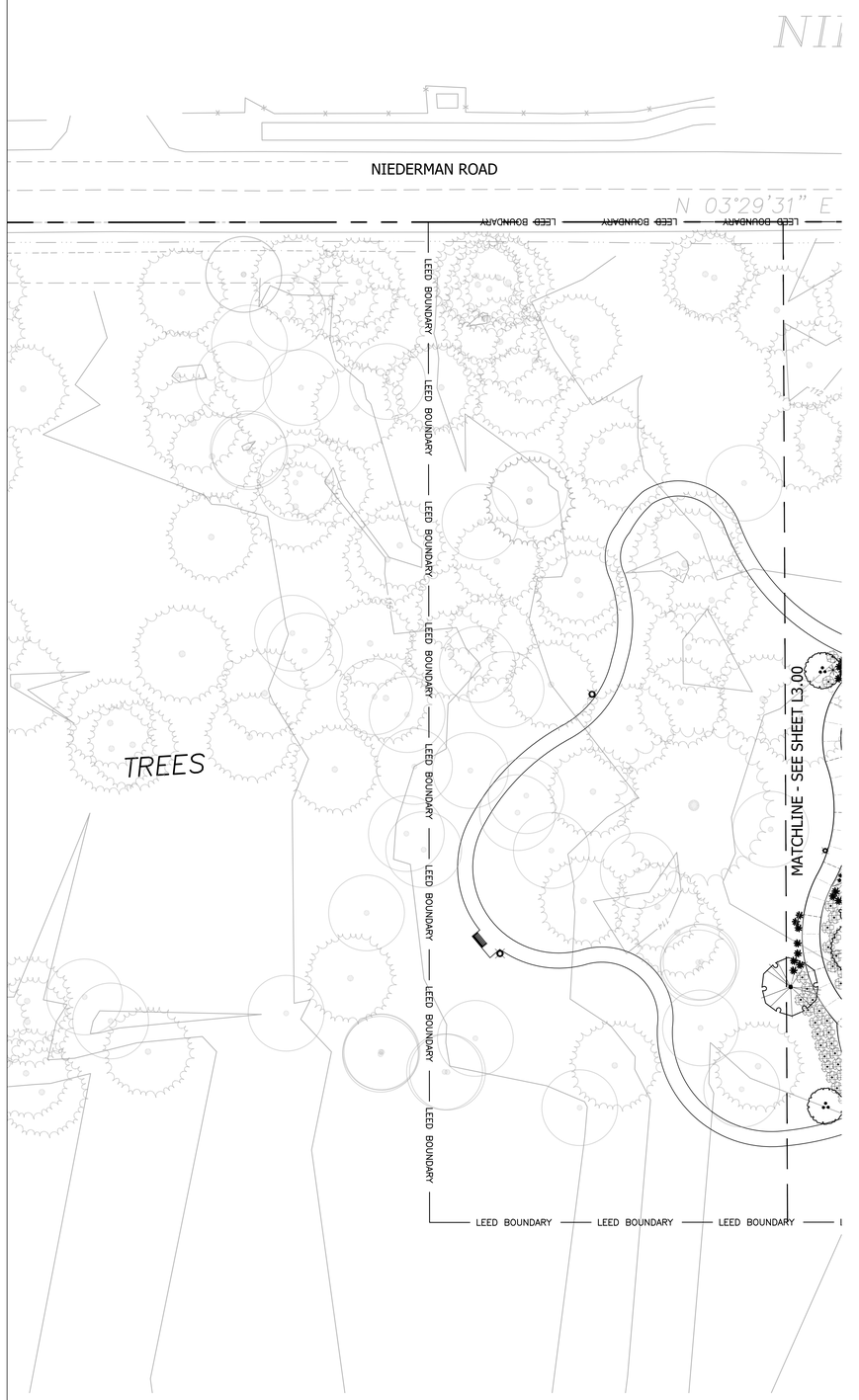
## PLANTING PLAN

| | |
|---|---|
| SCALE: | As indicated |
| DRAWN: | AD / AW / TL |
| CHECKED: | AW |
| PROJECT NO: | 2020006.100 |

SHEET:

# L3.00




1 PLANTING PLAN

0 10 20 40
1 inch = 20 feet

NORTH

## LANDSCAPE PLANTING NOTES

1. SOURCE OF BASE SHEETS IS ARC ARCHITECTS.
2. REFER TO CIVIL ENGINEER'S UTILITY AND GRADING AND DRAINAGE PLANS FOR UTILITY LOCATION AND DRAINAGE INFORMATION. REFER TO CIVIL ENGINEER'S GRADING PLANS FOR GRADING INFORMATION. IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE PLANS OR IF THERE ARE DISCREPANCIES BETWEEN THE PLANS, CONTACT THE LANDSCAPE ARCHITECT FOR DIRECTION AS TO HOW TO PROCEED.
3. VERIFY LOCATIONS OF PERTINENT SITE IMPROVEMENTS INSTALLED UNDER OTHER SECTIONS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT LANDSCAPE ARCHITECT FOR INSTRUCTIONS PRIOR TO COMMENCING WORK.
4. SOILS:
   - 4.1. ARE TO BE RESTORED IN ALL DISTURBED AREAS.
   - 4.2. ANY IMPORTED SOILS MAY NOT INCLUDE THE FOLLOWING:
     - 4.2.1. SOILS DEFINED BY THE NRCS WEB SOIL SURVEY AS PRIME FARMLAND, UNIQUE FARMLAND, OR FARMLAND OF STATEWIDE OR LOCAL IMPORTANCE.
     - 4.2.2. SOILS FROM OTHER GREENFIELD SITES
     - 4.2.3. SPHAGNUM PEAT MOSS.
5. EXACT LOCATIONS OF PLANT MATERIALS TO BE APPROVED BY THE LANDSCAPE ARCHITECT OR PROJECT ENGINEER IN THE FIELD PRIOR TO INSTALLATION. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ADJUST PLANTS TO EXACT LOCATION IN FIELD.
6. SHRUB PLANTINGS ATOP BURIED STRUCTURES SHALL BE PLANTED IN A MINIMUM DEPTH OF 30-INCHES OF SOIL MEDIUM.
7. VERIFY PLANT COUNTS AND SQUARE FOOTAGES: QUANTITIES ARE PROVIDED AS OWNER INFORMATION ONLY. IF QUANTITIES ON PLANT LIST DIFFER FROM GRAPHIC INDICATIONS, THEN GRAPHICS SHALL PREVAIL.
8. CONTACT THE LOCAL UNDERGROUND UTILITY SERVICES FOR UTILITY LOCATION AND IDENTIFICATION.
9. PERFORM EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES WITH CARE AND IF NECESSARY, BY HAND. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK AND DISRUPTION OR DAMAGE TO UTILITIES SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER.
10. EXISTING TREES SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO EXISTING.
11. TREES TO BE PLANTED A MINIMUM OF 5 FEET FROM FACE OF BUILDING, OR PAVEMENT, EXCEPT AS APPROVED BY LANDSCAPE ARCHITECT.
12. PROVIDE MATCHING FORMS AND SIZES FOR PLANT MATERIALS WITHIN EACH SPECIES AND SIZE DESIGNATED ON THE DRAWINGS.
13. PRUNING SHALL BE LIMITED TO DEAD, DISEASED, OR BROKEN LIMBS ONLY AND SHALL BE IN ACCORDANCE WITH ANSI A300 SPECIFICATIONS.]
14. REMOVE ANY TRUNK WRAP REMAINING AT TIME OF PLANTING. NO WRAPS SHALL BE PLACED ON TRUNK.
15. ALIGN AND EQUALLY SPACE IN ALL DIRECTIONS TREES AND SHRUBS AS DESIGNATED PER THESE NOTES AND DRAWINGS.
16. FINISH GRADES OF PLANTER AREAS SHALL BE 1 INCH BELOW ADJACENT PAVING OR TOP OF WALL UNLESS OTHERWISE NOTED.
17. REMOVE ENTIRE WIRE CAGE FROM ROOT BALL AND LEAVE AT SURFACE FOR FIELD VERIFICATION BY LANDSCAPE ARCHITECT.
18. CUT AND REMOVE BURLAP FROM TOP 2/3 OF BALL, LEAVE AT SURFACE FOR FIELD VERIFICATION BY LANDSCAPE ARCHITECT.
19. LANDSCAPE ARCHITECT TO REVIEW PLANT MATERIALS AT SOURCE OR BY PHOTOGRAPHS PRIOR TO DIGGING OR SHIPPING OF PLANT MATERIALS.
20. LANDSCAPE AREAS SHALL BE SUPPLIED WITH TEMPORARY IRRIGATION FOR A TWO-YEAR (TWO GROWING SEASON) PLANT ESTABLISHMENT PERIOD USING AN IN-GROUND IRRIGATION SYSTEM.
21. ALL PLANTING AREAS TO RECEIVE 4" FINE AGED WOOD CHIP MULCH, RESTORATION AREAS TO RECEIVE 4" ARBORIST WOOD CHIP MULCH.
22. ALL PLANT SUBSTITUTIONS MUST COMPLY WITH EPA LEVEL III ECOREGION PLANT SPECIES AND ARE TO BE CONFIRMED BY LANDSCAPE ARCHITECT.

## TREE PLACEMENT

1. TREE LOCATIONS SHOWN ON PLANTING PLANS ARE APPROXIMATE; IF FIELD ADJUSTMENTS ARE NECESSARY, THE FOLLOWING MINIMUM SETBACKS FOR CENTERLINE OF TREE TRUNKS SHALL APPLY:

| | |
|---|---|
| A. DRIVEWAY OR ALLEY (MEASURED FROM EDGE OF DRIVEWAY AT SIDEWALK) | MIN. 7.5' (10' RECOMMENDED) |
| B. PAVEMENT EDGE WHERE NO CURB EXISTS | 10' |
| C. FACE OF CURB | 3.5' |
| D. SIDEWALK OR SIDEWALK LANDING | 2' |
| E. EXTENSION OF CROSS STREET CURB (AT AN INTERSECTION) | 30' |
| F. STOP SIGN | 20' |
| G. UNDERGROUND UTILITIES | 5' |
| H. UNDERGROUND FIBER CABLE | 2' |
| I. UNDERGROUND GAS LINES | 13' |
| J. UNDERGROUND HIGH PRESSURE GAS LINES | 25' |
| K. UTILITY POLE W/ OR W/OUT STREET LIGHT | 20' |
| L. FIRE HYDRANT | 5' |
| M. FACE OF BUILDING OR SITE PAVEMENT EXCEPT AS APPROVED BY LANDSCAPE ARCHITECT. | 5' |

arc ARCHITECTS
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206 322 3322

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EXPIRES ON 9-29-22

# The Chehalis Tribe Chehalis Elder Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:

**PLANTING PLAN**

SCALE: As indicated
DRAWN: AD / AW / TL
CHECKED: AW
PROJECT NO: 2020006.100

SHEET: **L3.01**

CALL BEFORE YOU DIG

Apr 21, 2021 - 2:56pm

# PLANT_SCHEDULE

| CONIFERS | QTY | BOTANICAL / COMMON NAME | CONT/SIZE | NOTES | NATIVE/ADAPTIVE |
|---|---|---|---|---|---|
| | 4 | THUJA PLICATA / WESTERN RED CEDAR | B&B / MIN. 8` HT. | | PNW NATIVE |

| DECIDUOUS TREES | QTY | BOTANICAL / COMMON NAME | CONT/SIZE | NOTES | NATIVE/ADAPTIVE |
|---|---|---|---|---|---|
| | 9 | ACER CIRCINATUM / VINE MAPLE | B&B / 1-1/2" CAL. | MULTI-TRUNK, 3-STEM MIN. | PNW NATIVE |
| | 10 | CORNUS NUTTALLII / WESTERN FLOWERING DOGWOOD | B&B / 1-1/2" CAL. | | PNW NATIVE |
| | 4 | FRAXINUS LATIFOLIA / OREGON ASH | B&B / 2" CAL. | | PNW NATIVE |
| | 17 | MALUS FUSCA / OREGON CRAB APPLE | B&B / 2" CAL. | | PNW ADAPTIVE |
| | 18 | QUERCUS GARRYANA / OREGON OAK | B&B / 1-1/2" CAL. | | PNW NATIVE |

| EVERGREEN TREES | QTY | BOTANICAL / COMMON NAME | CONT/SIZE (VE ALT) | NATIVE/ADAPTIVE |
|---|---|---|---|---|
| | 13 | TAXODIUM DISTICHUM `PEVE MINARET` / DWARF BALDCYPRESS | MIN. 5 GAL (3 GAL) | PNW ADAPTIVE |

| LOW DECIDUOUS SHRUBS | QTY | BOTANICAL / COMMON NAME | CONT/SIZE (VE ALT) | NATIVE/ADAPTIVE |
|---|---|---|---|---|
| | 35 | AZALEA KNAP HILL HYBRID `FIREBALL` / KNAP HILL AZALEA | MIN. 3 GAL (2 GAL) | PNW ADAPTIVE |
| | 70 | CORNUS STOLONIFERA `KELSEYI` / KELSEY DOGWOOD | MIN. 2 GAL. | PNW ADAPTIVE |

| LOW EVERGREEN SHRUBS | QTY | BOTANICAL / COMMON NAME | CONT/SIZE (VE ALT) | NATIVE/ADAPTIVE |
|---|---|---|---|---|
| | 288 | ARCTOSTAPHYLOS UVA-URSI / KINNIKINNICK | MIN. 1 GAL. | PNW NATIVE |
| | 30 | LEDUM GLANDULOSUM / WESTERN LABRADOR TEA | MIN. 2 GAL. | PNW NATIVE |
| | 247 | MAHONIA NERVOSA / OREGON GRAPE | MIN. 1 GAL. | EPRL NATIVE |
| | 44 | VACCINIUM OVATUM / EVERGREEN HUCKLEBERRY | MIN. 2 GAL. | EPRL NATIVE |

| PERENNIALS / FERNS / GRASSES | QTY | BOTANICAL / COMMON NAME | CONT/SIZE (VE ALT) | NATIVE/ADAPTIVE |
|---|---|---|---|---|
| | 37 | ARUNCUS AETHUSIFOLIUS / DWARF GOATSBEARD | MIN. 1 GAL. | EPRL NATIVE |
| | 249 | BLECHNUM SPICANT / DEER FERN | MIN. 1 GAL. | EPRL NATIVE |
| | 9 | CAMASSIA QUAMASH / SMALL CAMAS | MIN. 4" POT | EPRL NATIVE |
| | 23 | FRITILLARIA AFFINIS / CHECKER LILY | MIN. 1 GAL. | PNW NATIVE |
| | 10 | MELISSA OFFICINALIS / LEMON BALM | MIN. 1 GAL | PNW ADAPTIVE |
| | 265 | POLYSTICHUM MUNITUM / WESTERN SWORD FERN | MIN. 1 GAL. | EPRL NATIVE |
| | 31 | SMILACINA STELLATA / SOLOMON`S STAR | MIN. 1 GAL | EPRL NATIVE |
| | 34 | TANACETUM VULGARE `ISLA GOLD` / TANSY | MIN. 1 GAL. | PNW ADAPTIVE |
| | 12 | TRILLIUM OVATUM / COAST TRILLIUM | MIN. 1 GAL. | EPRL NATIVE |

| TALL DECIDUOUS SHRUBS | QTY | BOTANICAL / COMMON NAME | CONT/SIZE (VE ALT) | NATIVE/ADAPTIVE |
|---|---|---|---|---|
| | 14 | AMELANCHIER ALNIFOLIA / SERVICEBERRY | MIN. 5 GAL (3 GAL) | EPRL NATIVE |
| | 27 | CORNUS SANGUINEA `MIDWINTER FIRE` / BLOOD-TWIG DOGWOOD | MIN. 5 GAL (3 GAL) | PNW ADAPTIVE |
| | 10 | CORNUS STOLONIFERA / DOGWOOD | MIN. 5 GAL. (3 GAL) | PNW NATIVE |
| | 13 | CORYLUS CORNUTA / WESTERN HAZELNUT | MIN. 5 GAL. (3 GAL) | EPRL NATIVE |
| | 30 | HOLODISCUS DISCOLOR / OCEAN-SPRAY | MIN. 3 GAL. | EPRL NATIVE |
| | 8 | OEMLERIA CERASIFORMIS / INDIAN PLUM | MIN. 3 GAL. | EPRL NATIVE |
| | 6 | RHODODENDRON OCCIDENTALE / WESTERN AZALEA | MIN. 3 GAL. | PNW NATIVE |
| | 38 | RIBES SANGUINEUM / RED FLOWERING CURRANT | MIN. 3 GAL | EPRL NATIVE |
| | 15 | SYMPHORICARPOS ALBUS / COMMON WHITE SNOWBERRY | MIN. 3 GAL. | EPRL NATIVE |
| | 4 | VACCINIUM X `SUNSHINE BLUE` / BLUEBERRY | MIN. 3 GAL. | PNW ADAPTIVE |

| TALL EVERGREEN SHRUBS | QTY | BOTANICAL / COMMON NAME | CONT/SIZE (VE ALT) | NATIVE/ADAPTIVE |
|---|---|---|---|---|
| | 447 | GAULTHERIA SHALLON / SALAL | MIN. 2 GAL. | EPRL NATIVE |
| | 81 | MAHONIA AQUIFOLIUM / OREGON GRAPE | MIN. 5 GAL (3 GAL) | EPRL NATIVE |
| | 3 | MYRICA CALIFORNICA / PACIFIC WAX MYRTLE | MIN. 5 GAL. | EPRL NATIVE |
| | 16 | RHODODENDRON MACROPHYLLUM / PACIFIC RHODODENDRON | MIN. 5 GAL (3 GAL) | EPRL NATIVE |

| SHRUB AREAS | QTY | BOTANICAL / COMMON NAME | CONT/SIZE (VE ALT) | NATIVE | SPACING |
|---|---|---|---|---|---|
| | 8,118 SF | RESTORATION TYPE 1: | | | |
| | 85 | ADAITUM PEDATUM / MAIDENHAIR FERN | MIN. 4" POT | EPRL NATIVE | 1% @ 12" o.c. |
| | 75 | ATHYRIUM FILIX-FEMINA / COMMON LADY FERN | MIN. 4" POT | EPRL NATIVE | 2% @ 18" o.c. |
| | 85 | BLECHNUM SPICANT / DEER FERN | MIN. 1 GAL. | EPRL NATIVE | 4% @ 24" o.c. |
| | 19 | CEANOTHUS SANGUINEUS / REDSTEM CEANOTHUS | BARE ROOT | EPRL NATIVE | 2% @ 36" o.c. |
| | 32 | CORYLUS CORNUTA / WESTERN HAZELNUT | BARE ROOT | EPRL NATIVE | 6% @ 48" o.c. |
| | 75 | FESTUCA OCCIDENTALIS / WESTERN FESCUE GRASS | MIN. 4" POT | EPRL NATIVE | 2% @ 18" o.c. |
| | 47 | HOLODISCUS DISCOLOR / OCEAN-SPRAY | MIN. 1 GAL. | EPRL NATIVE | 5% @ 36" o.c. |
| | 47 | MAHONIA AQUIFOLIUM / OREGON GRAPE | MIN. 1 GAL. | EPRL NATIVE | 5% @ 36" o.c. |
| | 75 | MONTIA SIBIRICA / INDIAN LETTUCE | MIN. 4" POT | EPRL NATIVE | 2% @ 18" o.c. |
| | 57 | POLYSTICHUM MUNITUM / WESTERN SWORD FERN | MIN. 4" POT | EPRL NATIVE | 6% @ 36" o.c. |
| | 113 | PSEUDOROEGNERIA SPICATA / BLUEBUNCH WHEATGRASS | PLUG | EPRL NATIVE | 3% @ 18" o.c. |
| | 7 | PSEUDOTSUGA MENZIESII / DOUGLAS FIR | BARE ROOT | PNW NATIVE | 8% @ 120" o.c. |
| | 64 | PTERIDIUM AQUILINUM / WESTERN BRACKENFERN | MIN. 1 GAL. | EPRL NATIVE | 3% @ 24" o.c. |
| | 7 | QUERCUS GARRYANA / OREGON OAK | BARE ROOT | EPRL NATIVE | 8% @ 120" o.c. |
| | 127 | SMILACINA STELLATA / SOLOMON`S STAR | MIN. 4" POT | EPRL NATIVE | 6% @ 24" o.c. |
| | 85 | STREPTOPUS ROSEUS / TWISTED STALK | MIN. 4" POT | EPRL NATIVE | 4% @ 24" o.c. |
| | 43 | SYMPHORICARPOS ALBUS / COMMON WHITE SNOWBERRY | BARE ROOT | EPRL NATIVE | 8% @ 48" o.c. |
| | 38 | TIARELLA TRIFOLIATA / THREELEAF FOAMFLOWER | MIN. 4" POT | EPRL NATIVE | 1% @ 18" o.c. |
| | 169 | TRILLIUM OVATUM / COAST TRILLIUM | BULB | EPRL NATIVE | 2% @ 12" o.c. |
| | 7 | TSUGA HETEROPHYLLA / WESTERN HEMLOCK | BARE ROOT | EPRL NATIVE | 8% @ 120" o.c. |
| | 57 | VACCINIUM OVALIFOLIUM / OVAL-LEAF BLUEBERRY | MIN. 1 GAL. | EPRL NATIVE | 6% @ 36" o.c. |
| | 85 | VIOLA SEMPERVIRENS / EVERGREEN VIOLET | MIN. 4" POT | EPRL NATIVE | 1% @ 12" o.c. |
| | 9,001 SF | RESTORATION TYPE 2: | | | |
| | 84 | ADAITUM PEDATUM / MAIDENHAIR FERN | MIN. 4" POT | EPRL NATIVE | 2% @ 18" o.c. |
| | 52 | AMELANCHIER ALNIFOLIA / SERVICEBERRY | BARE ROOT | EPRL NATIVE | 5% @ 36" o.c. |
| | 84 | ATHYRIUM FILIX-FEMINA / COMMON LADY FERN | MIN. 4" POT | EPRL NATIVE | 2% @ 18" o.c. |
| | 47 | BLECHNUM SPICANT / DEER FERN | MIN. 1 GAL. | EPRL NATIVE | 2% @ 24" o.c. |
| | 42 | CEANOTHUS SANGUINEUS / REDSTEM CEANOTHUS | BARE ROOT | EPRL NATIVE | 4% @ 36" o.c. |
| | 30 | CORYLUS CORNUTA / WESTERN HAZELNUT | BARE ROOT | EPRL NATIVE | 8% @ 60" o.c. |
| | 125 | FESTUCA OCCIDENTALIS / WESTERN FESCUE GRASS | PLUG | EPRL NATIVE | 3% @ 18" o.c. |
| | 84 | MONTIA SIBIRICA / INDIAN LETTUCE | MIN. 4" POT | EPRL NATIVE | 2% @ 18" o.c. |
| | 29 | OEMLERIA CERASIFORMIS / INDIAN PLUM | BARE ROOT | EPRL NATIVE | 11% @ 72" o.c. |
| | 104 | POLYSTICHUM MUNITUM / WESTERN SWORD FERN | MIN. 4" POT | EPRL NATIVE | 10% @ 36" o.c. |
| | 125 | PSEUDOROEGNERIA SPICATA / BLUEBUNCH WHEATGRASS | PLUG | EPRL NATIVE | 3% @ 18" o.c. |
| | 188 | PTERIDIUM AQUILINUM / WESTERN BRACKENFERN | MIN. 1 GAL. | EPRL NATIVE | 8% @ 24" o.c. |
| | 59 | SAMBUCUS RACEMOSA / RED ELDERBERRY | MIN. 1 GAL. | EPRL NATIVE | 10% @ 48" o.c. |
| | 71 | SMILACINA STELLATA / SOLOMON`S STAR | MIN. 4" POT | EPRL NATIVE | 3% @ 24" o.c. |
| | 71 | STREPTOPUS ROSEUS / TWISTED STALK | MIN. 4" POT | EPRL NATIVE | 3% @ 24" o.c. |
| | 47 | SYMPHORICARPOS ALBUS / COMMON WHITE SNOWBERRY | BARE ROOT | EPRL NATIVE | 8% @ 48" o.c. |
| | 125 | TIARELLA TRIFOLIATA / THREELEAF FOAMFLOWER | MIN. 4" POT | EPRL NATIVE | 3% @ 18" o.c. |
| | 104 | VACCINIUM OVALIFOLIUM / OVAL-LEAF BLUEBERRY | MIN. 1 GAL. | EPRL NATIVE | 10% @ 36" o.c. |
| | 94 | VIOLA SEMPERVIRENS / EVERGREEN VIOLET | MIN. 4" POT | EPRL NATIVE | 1% @ 12" o.c. |
| | 84 | XEROPHYLLUM TENAX / COMMON BEARGRASS | PLUG | EPRL NATIVE | 2% @ 18" o.c. |
| | 2,599 SF | RAIN GARDEN | | | |
| | 2,702 | CAMASSIA LEICHTLINII / GREAT CAMAS | BULB | PNW NATIVE | 12" o.c. |
| | 361 | CAREX DEWEYANA / DEWEY`S SEDGE | PLUG | PNW NATIVE | 30% @ 18" o.c. |
| | 481 | CAREX OBNUPTA / SLOUGH SEDGE | PLUG | PNW NATIVE | 40% @ 18" o.c. |
| | 361 | JUNCUS PATENS / CALIFORNIA GRAY RUSH | PLUG | PNW NATIVE | 30% @ 18" o.c. |

| SEED MIXES | QTY | BOTANICAL / COMMON NAME | CONT |
|---|---|---|---|
| | 4,564 SF | LAWN ECO MIX PER WSDOT STND / HYDRO SEED MIX | HYDROSEED |

| LOW GROUND COVERS | QTY | BOTANICAL / COMMON NAME | CONT/SIZE (VE ALT) | NATIVE/ADAPTIVE | SPACING |
|---|---|---|---|---|---|
| | 343 | 50% ACHLYS TRIPHYLLA / VANILLA LEAF<br>50% LINNAEA BOREALIS / TWINFLOWER | MIN. 1 GAL (4" POT) | EPRL NATIVE | 18" o.c. |
| | 270 | ASARUM CAUDATUM / BRITISH COLUMBIA WILD GINGER | MIN. 1 GAL (4" POT) | EPRL NATIVE | 18" o.c. |
| | 260 | CORNUS CANADENSIS / BUNCHBERRY DOGWOOD | MIN. 1 GAL (4" POT) | EPRL NATIVE | 12" o.c. |
| | 307 | FRAGARIA VESCA / WOODLAND STRAWBERRY | MIN. 1 GAL (4" POT) | PNW NATIVE | 20" o.c. |
| | 148 | GALIUM TRIFLORUM / SWEETSCENTED BEDSTRAW | MIN. 1 GAL. | EPRL NATIVE | 18" o.c. |
| | 277 | GAULTHERIA PROCUMBENS / WINTERGREEN | MIN. 1 GAL. | PNW NATIVE | 18" o.c. |
| | 255 | OXALIS OREGANA / REDWOOD SORREL | MIN. 1 GAL (4" POT) | EPRL NATIVE | 18" o.c. |
| | 314 | PHYLLODOCE EMPETRIFORMIS / RED MOUNTAIN HEATHER | MIN. 1 GAL. | EPRL NATIVE | 18" o.c. |
| | 599 | 50% SYMPHORICARPOS MOLLIS / CREEPING SNOWBERRY<br>50% MAHONIA REPENS / CREEPING OREGON GRAPE | MIN. 1 GAL (4" POT) | EPRL NATIVE<br>PNW NATIVE | 24" o.c. |

| MEDIUM GROUND COVERS | QTY | BOTANICAL / COMMON NAME | CONT/SIZE (VE ALT) | NATIVE/ADAPTIVE | SPACING |
|---|---|---|---|---|---|
| | 527 | 50% CAREX DEWEYANA / DEWEY`S SEDGE<br>50% DESCHAMPSIA CESPITOSA / TUFTED HAIRGRASS | MIN. 1 GAL. | PNW NATIVE<br>PNW NATIVE | 18" o.c. |
| | 261 | CAREX TESTACEA / CAREX | MIN. 1 GAL | PNW ADAPTIVE | 24" o.c. |
| | 354 | MAHONIA NERVOSA / OREGON GRAPE | MIN. 1 GAL | EPRL NATIVE | 24" o.c. |
| | 161 | PAXISTIMA MYRSINITES / OREGON BOXWOOD | MIN. 2 GAL. | EPRL NATIVE | 36" o.c. |
| | 271 | 50% TIARELLA UNIFOLIATA / COOLWORT FOAMFLOWER<br>50% TIARELLA TRIFOLIATA / TREFOIL FOAMFLOWER | MIN. 1 GAL (4" POT) | EPRL NATIVES | 18" o.c. |
| | 183 | VIOLA SEMPERVIRENS / EVERGREEN VIOLET | MIN. 4"POT | EPRL NATIVE | 16" o.c. |

May 18, 2021 - 1:49pm


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**The Chehalis Tribe**
**Chehalis Elder Center**
**NIEDERMAN RD**
**OAKVILLE, WA 98568**

THE CHEHALIS TRIBE

## BID DOCUMENTS

ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

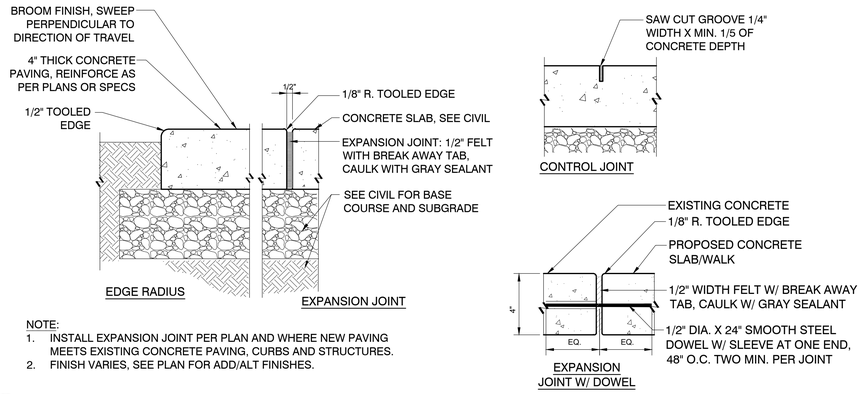
CONTENTS:

## PLANTING SCHEDULE

| | |
|---|---|
| SCALE: | As indicated |
| DRAWN: | AD / AW / TL |
| CHECKED: | AW |
| PROJECT NO: | 2020006.100 |

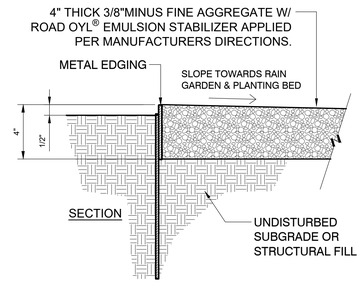
SHEET:

# L3.10



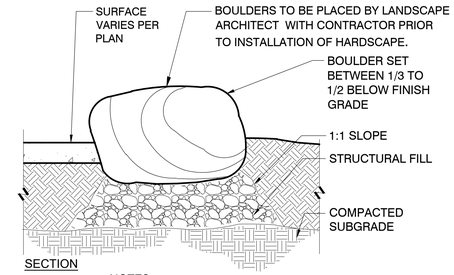

NOTE:
1. INSTALL EXPANSION JOINT PER PLAN AND WHERE NEW PAVING MEETS EXISTING CONCRETE PAVING, CURBS AND STRUCTURES.
2. FINISH VARIES, SEE PLAN FOR ADD/ALT FINISHES.

1 CONCRETE WALK
3" = 1'-0"
P-PR-TOL-93



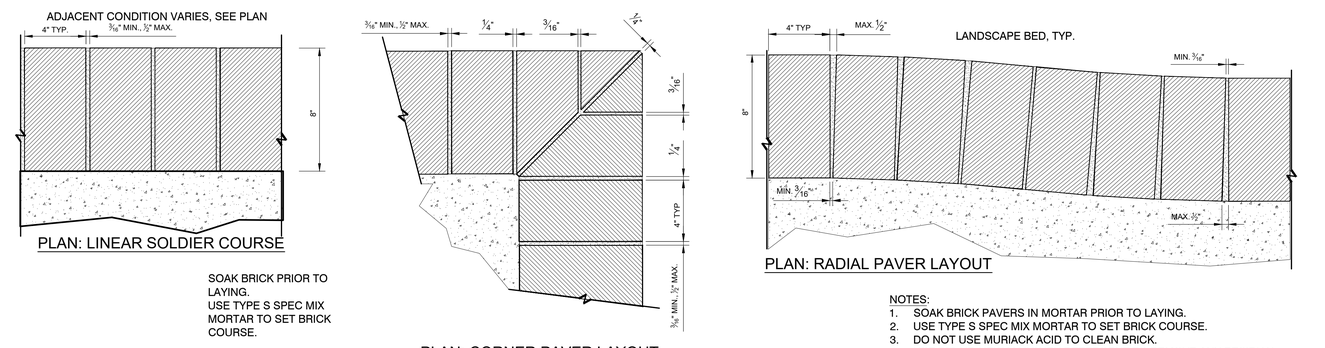

NOTE:
1. INSTALL PER MANUFACTURE'S SPECS
2. METAL EDGING NOT REQUIRED IN AREAS ABUTTING HARDSCAPE.
3. USE CAUTION WHEN LAYING OUT GRAVEL TRAIL TO AVOID DAMAGE TO ROOT STRUCTURE OF EXISTING TREES.

2 STABILIZED AGGREGATE PAVING
3" = 1'-0"
321543-03




NOTES:
1. ANY BOULDERS FOUND DURING EXCAVATION TO BE SALVAGED AND PLACED BY LANDSCAPE ARCHITECT WITH CONTRACTOR PRIOR TO INSTALLATION OF HARDSCAPE.
2. SEE SPECIFICATIONS.

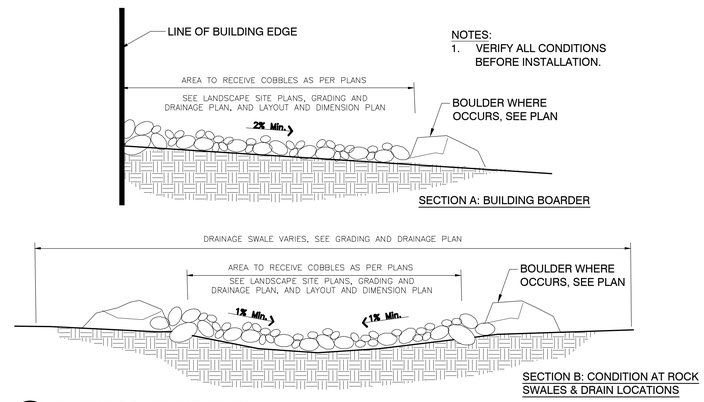
3 LANDSCAPE BOULDER
1" = 1'-0"
P-PR-TOL-34




SOAK BRICK PRIOR TO LAYING.
USE TYPE S SPEC MIX MORTAR TO SET BRICK COURSE.

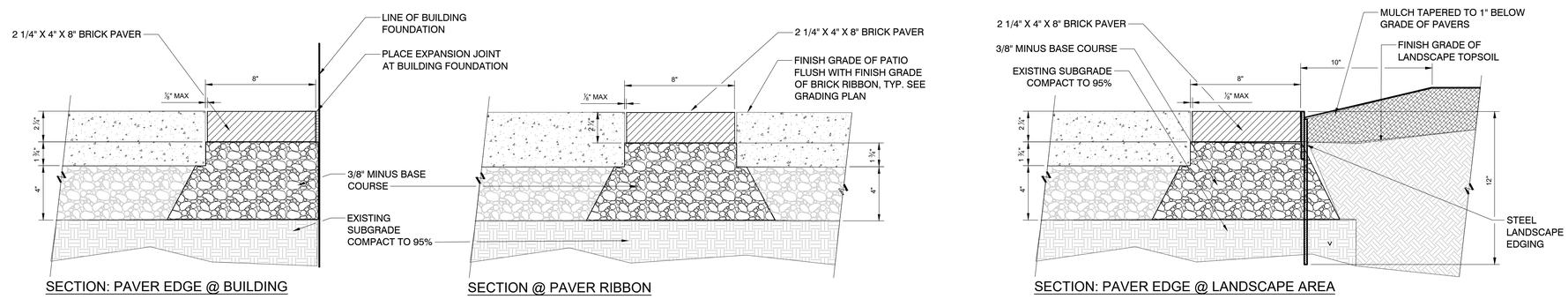
NOTES:
1. SOAK BRICK PAVERS IN MORTAR PRIOR TO LAYING.
2. USE TYPE S SPEC MIX MORTAR TO SET BRICK COURSE.
3. DO NOT USE MURIACK ACID TO CLEAN BRICK.
4. USE 700 HD NEW MASONRY DETERGENT TO REMOVE ANY RESIDUAL CONCRETE AND/OR MORTAR RESIDUE AFTER CONCRETE HAS DRIED.

4 BRICK SINGLE SOLDIER COURSE
3" = 1'-0"
W-PR-26




NOTES:
1. VERIFY ALL CONDITIONS BEFORE INSTALLATION.

5 RIVER ROCK TREATMENTS
1/2" = 1'-0"
334933-01




NOTES:
1. SEE DETAIL 3/L5.00 FOR BRICK PAVER LAYOUT

6 BRICK PAVER SOLDIER COURSE EDGING AND RIBBON
3" = 1'-0"
0421-01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EXPIRES ON 9-29-22


# The Chehalis Tribe
# Chehalis Elder Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: APRIL 16, 2021

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|---|---|---|
| | | |

CONTENTS:

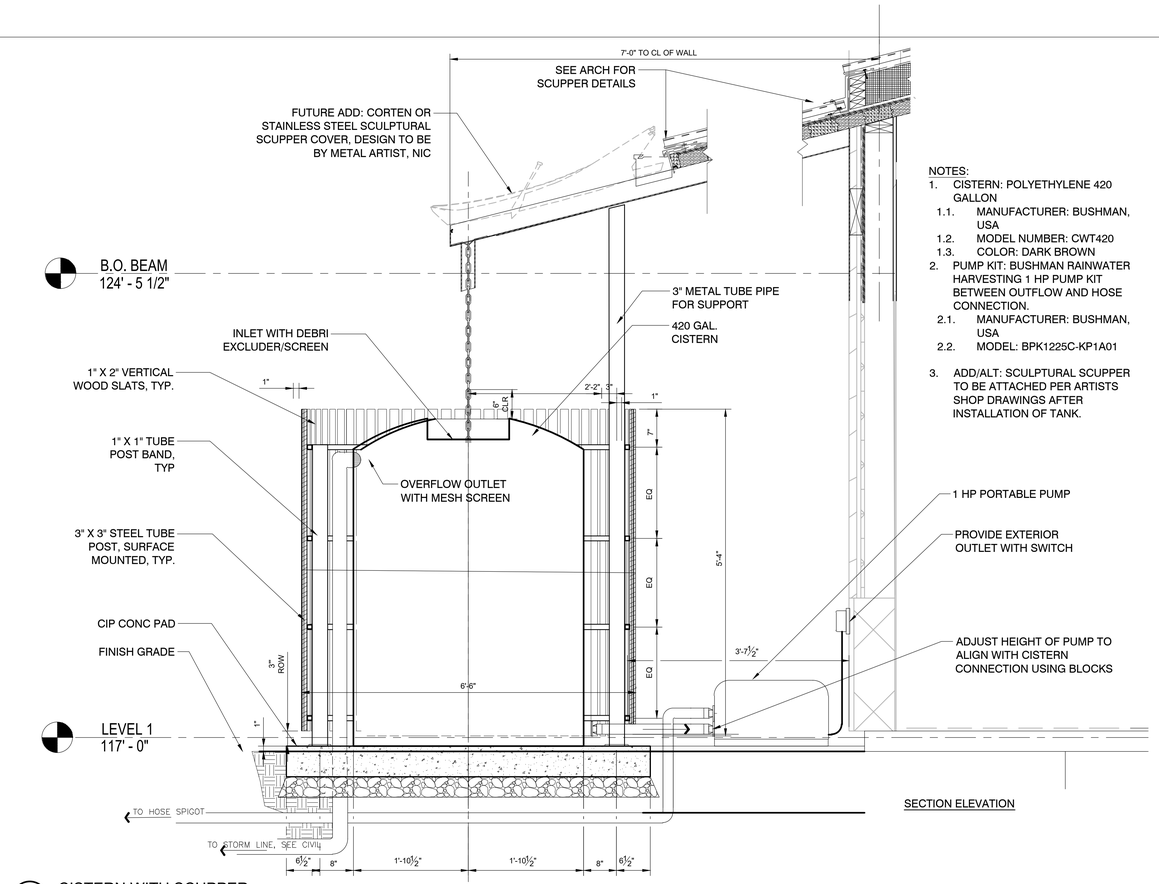
**HARDSCAPE DETAILS**

SCALE: **As indicated**
DRAWN: **AD / AW / TL**
CHECKED: **AW**
PROJECT NO: 2020006.100

SHEET:

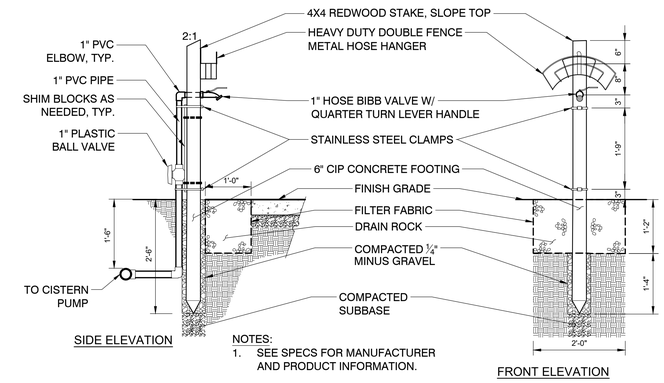
**L5.00**

Apr 21, 2021 - 2:57pm



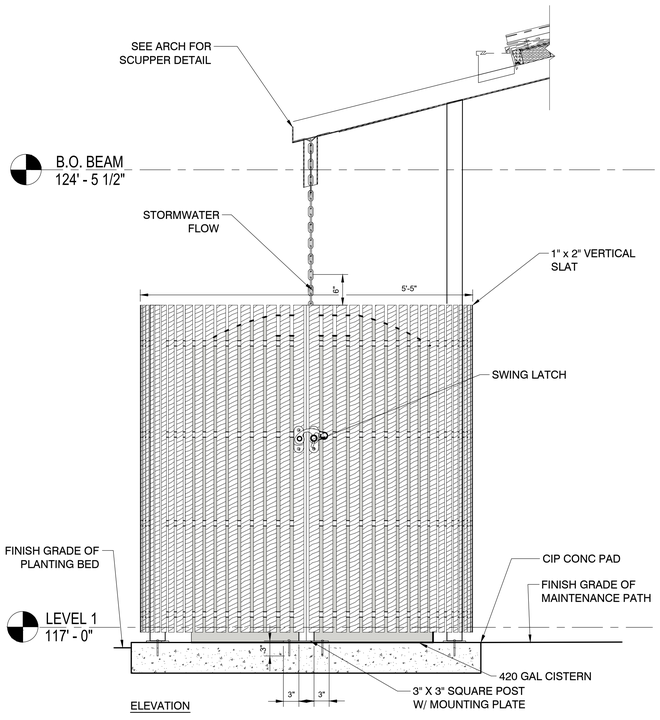

NOTES:
1. CISTERN: POLYETHYLENE 420 GALLON
   1.1. MANUFACTURER: BUSHMAN, USA
   1.2. MODEL NUMBER: CWT420
   1.3. COLOR: DARK BROWN
2. PUMP KIT: BUSHMAN RAINWATER HARVESTING 1 HP PUMP KIT BETWEEN OUTFLOW AND HOSE CONNECTION.
   2.1. MANUFACTURER: BUSHMAN, USA
   2.2. MODEL: BPK1225C-KP1A01
3. ADD/ALT: SCULPTURAL SCUPPER TO BE ATTACHED PER ARTISTS SHOP DRAWINGS AFTER INSTALLATION OF TANK.

1 CISTERN WITH SCUPPER
1" = 1'-0"
W-PR-39

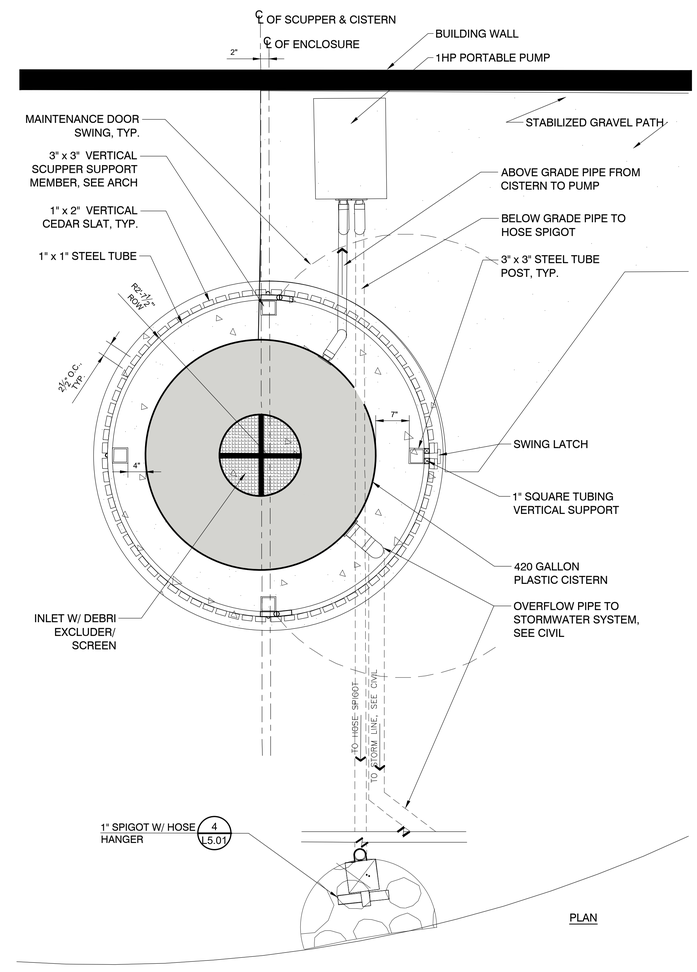



NOTES:
1. SEE SPECS FOR MANUFACTURER AND PRODUCT INFORMATION.

2 1" SPIGOT W/ HOSE HANGER
3/4" = 1'-0"
32 84-09




3 CISTERN W/ VERTICAL SLAT WOOD SCREEN MAINTENANCE ACCESS DOORS
1" = 1'-0"
W-PR-75




4 CISTERN LAYOUT
1" = 1'-0"
W-PR-72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# The Chehalis Tribe Chehalis Elder Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

**BID DOCUMENTS**

ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:

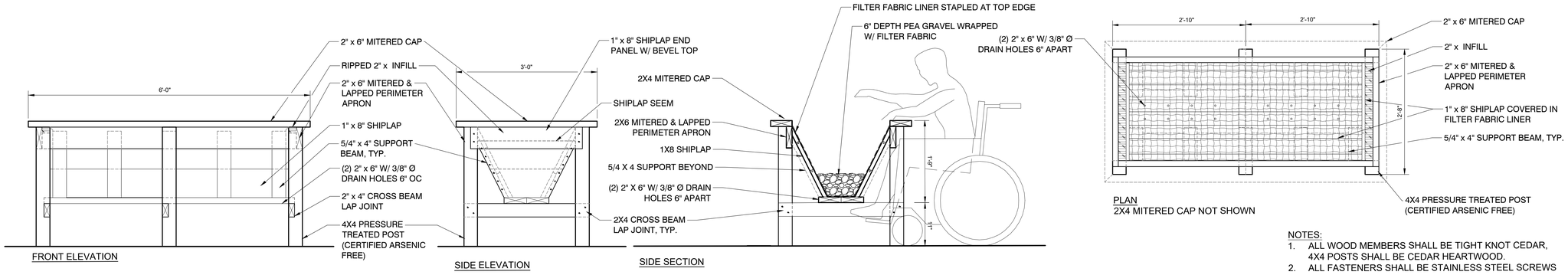
**HARDSCAPE DETAILS**

| | |
|---|---|
| SCALE: | As indicated |
| DRAWN: | AD / AW / TL |
| CHECKED: | AW |
| PROJECT NO: | 2020006.100 |

SHEET:

**L5.01**

Apr 21, 2021 - 2:58pm



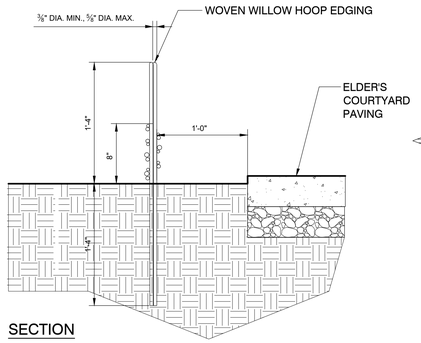

NOTES:
1. ALL WOOD MEMBERS SHALL BE TIGHT KNOT CEDAR, 4X4 POSTS SHALL BE CEDAR HEARTWOOD.
2. ALL FASTENERS SHALL BE STAINLESS STEEL SCREWS

## 1 ACCESSIBLE PLANTER

1" = 1'-0"

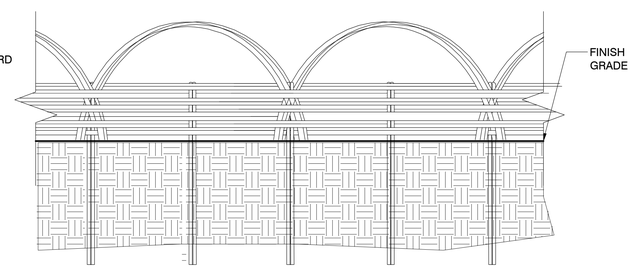
W-PR-24

EXAMPLE IMAGE




SECTION

NOTE:
1. HAND WOVEN BY CHEHALIS MASTER WEAVERS.




ELEVATION

## 2 WOVEN WILLOW HOOP EDGING

1 1/2" = 1'-0"

W-PR-43

NOTES:
1. SEE SPECS, AND MANUFACTURER CUTSHEETS SPECIFICATIONS AND ASSEMBLY INSTRUCTIONS.
2. CEDAR FURNITURE TO REMAIN MOVEABLE TO BE ARRANGED AS NEEDED FOR DIFFERENT EVENTS.

## 3 CEDAR GARDEN BENCH

NTS

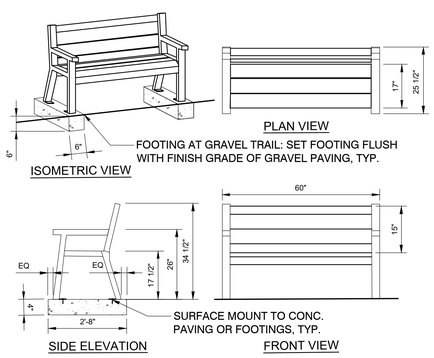
P-PR-SVE-40

NOTES:
1. SEE SPECS, AND MANUFACTURER CUTSHEETS SPECIFICATIONS AND ASSEMBLY INSTRUCTIONS.
2. CEDAR FURNITURE TO REMAIN MOVEABLE TO BE ARRANGED AS NEEDED FOR DIFFERENT EVENTS.

## 4 CEDAR GARDEN CHAIR

NTS

P-PR-SVE-43

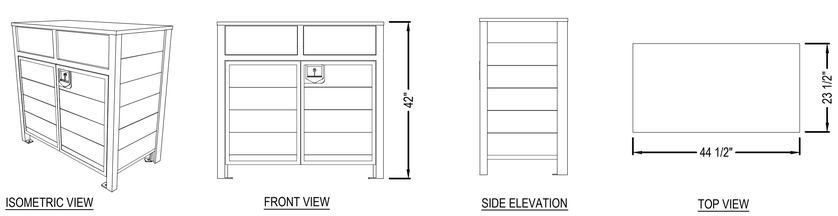



NOTES:
1. SEE SPECS FOR MANUFACTURER AND INSTALL INSTRUCTIONS.

## 5 SITE BENCH

1/2" = 1'-0"

P-PR-SVE-09

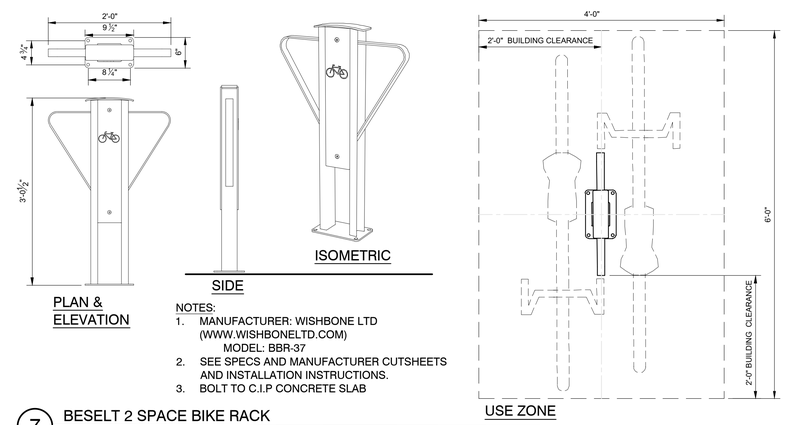



NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. THIS DRAWING IS INTENDED FOR PLANNING PURPOSES ONLY.
3. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
4. MODEL: URBAN FORM TWO STREAM RECYCLING STATION (UFRS-44)
5. MANUFACTURER: WISHBONE SITE FURNISHINGS
URL: WWW.WISHBONELTD.COM

## 6 WASTE RECEPTACLE

3/4" = 1'-0"

W-PR-41




NOTES:
1. MANUFACTURER: WISHBONE LTD (WWW.WISHBONELTD.COM)
MODEL: BBR-37
2. SEE SPECS AND MANUFACTURER CUTSHEETS AND INSTALLATION INSTRUCTIONS.
3. BOLT TO C.I.P CONCRETE SLAB

## 7 BESELT 2 SPACE BIKE RACK

1" = 1'-0"

P-PR-SVE-45


arc ARCHITECTS
119 S MAIN ST
SUITE 200
SEATTLE, WA
98104-2579
206 322 3322

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STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
AUDREY WEST
LICENSE NO. 1313
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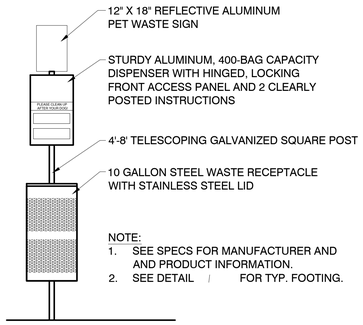
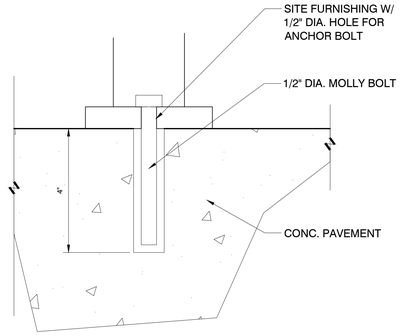



NOTE:
1. SEE SPECS FOR MANUFACTURER AND AND PRODUCT INFORMATION.
2. SEE DETAIL / FOR TYP. FOOTING.

## 1 PET WASTE PICK UP STATION

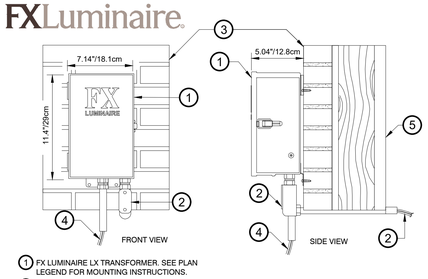
1/2" = 1'-0" P-PR-TOL-64




## 2 SITE FURNISHING ANCHOR

6" = 1'-0" 05-01

FXLuminaire




1. FX LUMINAIRE LX TRANSFORMER. SEE PLAN LEGEND FOR MOUNTING INSTRUCTIONS.
2. FX AVAILABLE ELECTRIC HARDWIRE TO 120 VOLT POWER SOURCE.
3. OUTDOOR BRICK MOUNTING SURFACE
4. LENGTH OF WIRE AND JUNCTION BOX TO BE DETERMINED. USE DIRECT BURY, UF/UL, COPPER, LOW VOLTAGE CABLE WITH 3M DBR/Y-6 DIRECT BURY SPLICE KIT.
5. SEE PLAN LEGEND FOR TYPE OF MATERIAL FOR INSIDE WALL SURFACE.

NOTES:
A. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
B. ALWAYS REFER TO FX PRODUCT INSTALLATION NOTES PRIOR TO INSTALLATION
C. THIS DETAIL SHOWS DIMENSIONS FOR BOTH THE LX-150 AND LX-300

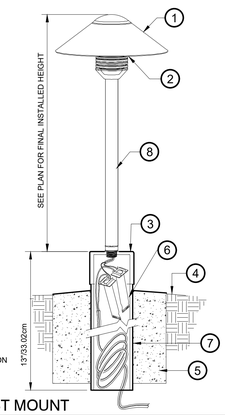
## 3 LX-TRANSFORMER OUTDOOR BRICK

NTS FX-LT-FXL-TRAN-37

FXLuminaire

1. FX LUMINAIRE CA FIXTURE. SEE PLAN LEGEND FOR WATTAGE, BEAM SPREAD AND ACCESSORIES.
2. TWIST TOP ASSEMBLY CLOCKWISE ONTO RISER UNTIL THE GAP BETWEEN THE LENSE AND BRASS REDUCER IS COMPLETELY SEALED.
3. FX LUMINAIRE POST MOUNT.
4. FINISHED GRADE.
5. CONCRETE FOOTING. DEPTH PER LOCAL CODE.
6. DIRECT BURY, UF/UL, COPPER, LOW VOLTAGE CABLE WITH 3M DBR/Y-6 DIRECT BURY SPLICE KIT. LEACE 18" MINIMUM WIRE LOOP COILED BELOW FIXTURE FOR SERVICE.
7. 1-1/2" SCHEDULE 40 PVC PIPE
8. GRA MOUNT. SEE PLAN FOR HEIGHT.

NOTES:
A. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
B. ACCEPTS 10-15 VOLTS - AC OR DC
C. SEE PLAN LEGEND FOR LED BOARD AND ACCESSORIES.
D. ALWAYS REFER TO FX PRODUCT INSTALLATION NOTES PRIOR TO INSTALLATION.




## 4 CA PATH LIGHT POST MOUNT

NTS FX-LT-FXL-PATH-06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98104-2579
206 322 3322

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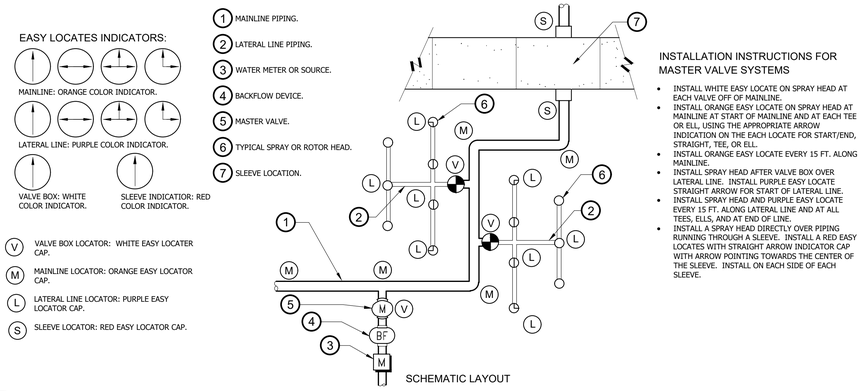
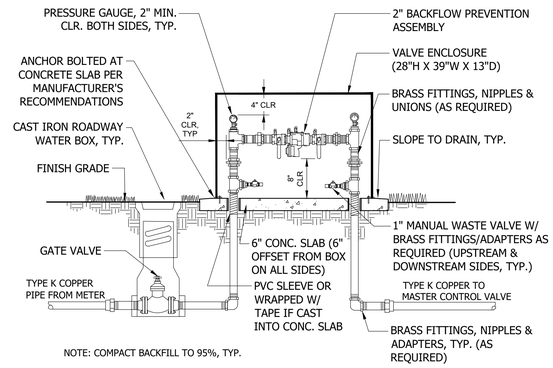



INSTALLATION INSTRUCTIONS FOR MASTER VALVE SYSTEMS

- INSTALL WHITE EASY LOCATE ON SPRAY HEAD AT EACH VALVE OFF OF MAINLINE.
- INSTALL ORANGE EASY LOCATE ON SPRAY HEAD AT MAINLINE AT START OF MAINLINE AND AT EACH TEE OR ELL, USING THE APPROPRIATE ARROW INDICATION ON THE EACH LOCATE FOR START/END, STRAIGHT, TEE, OR ELL.
- INSTALL ORANGE EASY LOCATE EVERY 15 FT. ALONG MAINLINE.
- INSTALL SPRAY HEAD AFTER VALVE BOX OVER LATERAL LINE. INSTALL PURPLE EASY LOCATE STRAIGHT ARROW FOR START OF LATERAL LINE.
- INSTALL SPRAY HEAD AND PURPLE EASY LOCATE EVERY 15 FT. ALONG LATERAL LINE AND AT ALL TEES, ELLS, AND AT END OF LINE.
- INSTALL A SPRAY HEAD DIRECTLY OVER PIPING RUNNING THROUGH A SLEEVE. INSTALL A RED EASY LOCATES WITH STRAIGHT ARROW INDICATOR CAP WITH ARROW POINTING TOWARDS THE CENTER OF THE SLEEVE. INSTALL ON EACH SIDE OF EACH SLEEVE.

## 1 EASY LOCATES INSTALLATION FOR MASTER VALVE SYSTEMS

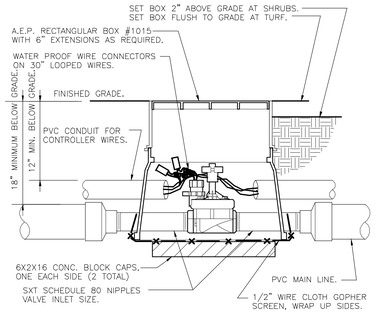
N.T.S. FX-IR-EASY-01




NOTE: COMPACT BACKFILL TO 95%, TYP.

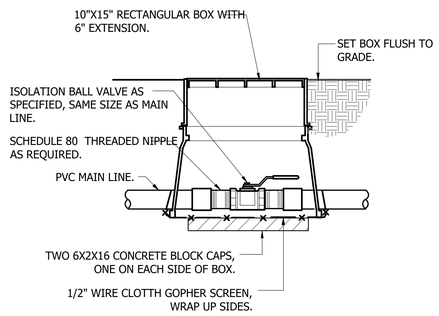
## 2 BACKFLOW PREVENTOR SECTION

1" = 1'-0" W-IR-10



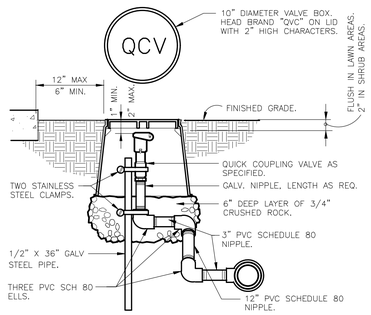

## 3 MASTER CONTROL VALVE

1 1/2" = 1'-0" 328406.23-01



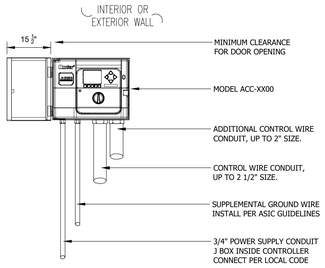

## 4 BRASS BALL ISOLATION VALVE

1 1/2" = 1'-0" FX-IR-FX-ISOV-02



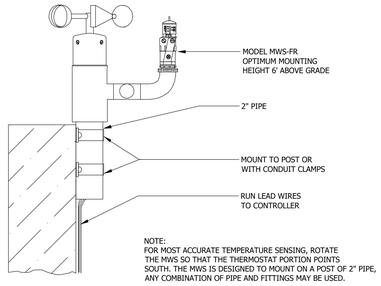

## 5 QUICK COUPLING VALVE IN BOX

1 1/2" = 1'-0" 328406.43-02



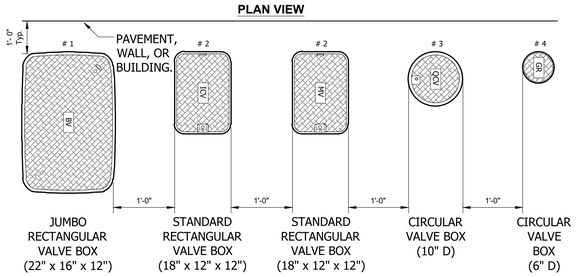

## 6 ACC CONTROLLER WALL MOUNT

1" = 1'-0" FX-IR-HUNT-CONT-05




## 7 MINI-WEATHER STATION

3" = 1'-0" FX-IR-HUNT-SENS-15



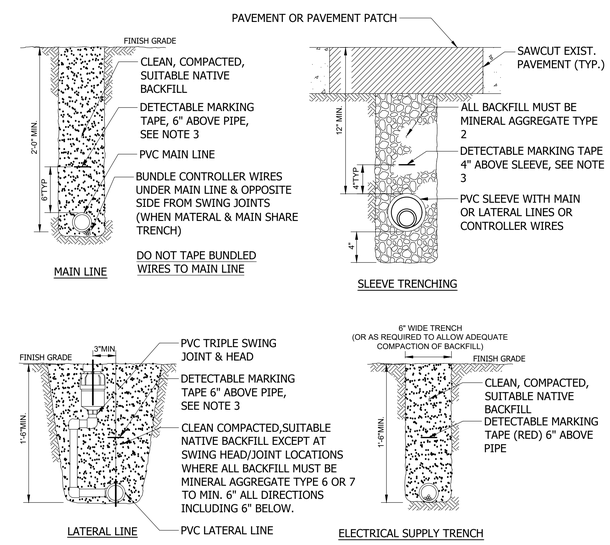

| Water Type | Controller | Designation | Box Size | Lid Color | Identification Guide |
|---|---|---|---|---|---|
| PW | A | MV | # 2 | Green | Master valve |
| PW | A | FS | # 2 | Green | Flow sensor |
| PW | A | HM | # 2 | Green | Hydrometer |
| PW | A | BV | # 2 | Green | Ball valve 3" or less |
| PW | A | BV | # 1 | Green | Ball valve 4" or more |
| PW | A | GV | # 2 | Green | Gate valve |
| PW | A | ARV | # 2 | Green | Air release valve |
| PW | A | QCV | # 3 | Green | Quick coupler valve |
| PW | A | RCV | # 2 | Green | Remote control valve |
| PW | A | MS | # 2 | Green | Moisture sensor |
| PW | A | GR | # 4 | Green | Grounding rod |
| PW | A | SB | # 3 | Green | Splice box |
| PW | A | FC | # 3 | Green | Future connection |

EXAMPLE
POTABLE WATER SYSTEM ON CONTROLLER 'A', REMOTE CONTROL VALVE STATION # 3.

NOTES:
1. VALVE BOX # 1 THRU # 3 SHALL HAVE STAINLESS STEEL LOCKING HARDWARE.
2. VALVE BOXES SHALL BE LABELED BY HOT IRON BRANDING OR ALUMINUM ASPHALTIC BASE WATER PROOF PAINT.
3. LOCATE VALVE ASSEMBLIES IN PLANTING AREA.
4. VALVE LOCATIONS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
5. VALVE BOXES SHALL BE CENTERED ABOVE VALVE ASSEMBLIES TO FACILITATE ACCESS AND MAINTENANCE.
6. VALVE BOXES SHALL BE FLUSH WITH FINISHED GRADE.
7. VALVE BOXES SHALL BE SET PARALLEL TO EACH OTHER AND PERPENDICULAR TO THE EDGE OF PAVEMENT.
8. SEE OTHER IRRIGATION DETAILS FOR FURTHER INFORMATION.

## 8 VALVE BOX LAYOUT

URBAN TREE FOUNDATION © 2014
OPEN SOURCE FREE TO USE
FX-IR-FX-RCV-03




NOTES:
1. SLEEVE SIZE AS SHOWN ON DRAWINGS OR ID OF SLEEVE TO BE 1" GREATER THAN OD OF PIPE.
2. SLEEVES REQUIRED UNDER ALL PAVED AREAS.
3. DETECTABLE MARKING TAPE COLOR PER SPECIFICATIONS FOR POTABLE OR NON-POTABLE WATER.

## 9 IRRIGATION TRENCHING

1 1/2" = 1'-0" W-IR-05

arc ARCHITECTS
119 S MAIN ST
SUITE 200
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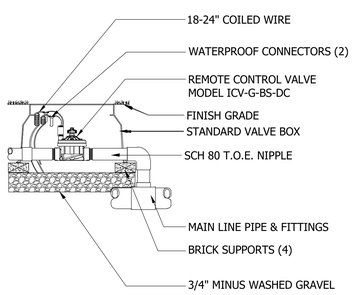
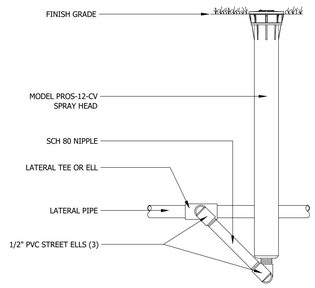
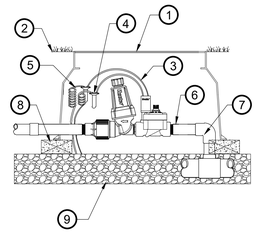



1 ICV GLOBE VALVE
1" = 1'-0" FX-IR-HUNT-VALV-20



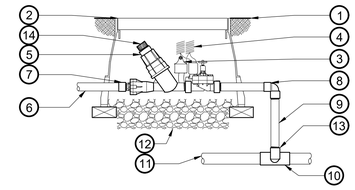

2 PROS-12-CV SPRAY HEAD WITH PVC STREET ELLS
3" = 1'-0" FX-IR-HUNT-SPRA-53



1. STANDARD VALVE BOX
2. FINISH GRADE
3. DRIP ZONE KIT: MODEL PCZ-101-2 FILTER, REGULATOR 25 OR 40 PSI
4. WATERPROOF CONNECTORS (2)
5. 18-24" COILED WIRE
6. SCH 80 T.O.E. NIPPLE
7. MAIN LINE PIPE & FITTINGS
8. BRICK SUPPORTS (4)
9. 3/4" MINUS WASHED GRAVEL

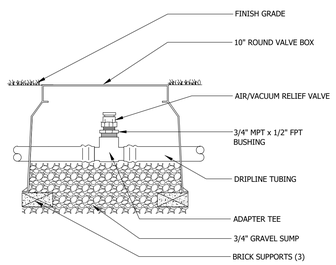
NOTE: OPTIONAL VALVE FOR DRIP ZONES IF PRESSURE CAN BE ADJUSTED TO ACCOMMODATE.

3 PCZ-101-2 DRIP ZONE KIT
1 1/2" = 1'-0" FX-IR-HUNT-DRIP-09

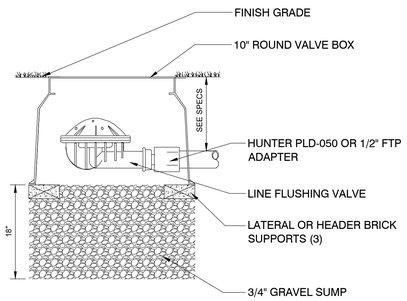


1. FINISH GRADE
2. LANDSCAPE PRODUCTS JUMBO VALVE BOX WITH COVER
3. VALVE ID TAG
4. 30-INCH LENGTH OF COILED WIRE
5. LANDSCAPE PRODUCTS DRIP KIT (INCLUDES VALVE, FILTER & PRESSURE REGULATOR)
6. PVC SUPPLY HEADER TO DRIPLINE
7. PVC SCH 80 FEMALE ADAPTER OR REDUCER
8. PVC SCH 80 ELL
9. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
10. PVC SCH 80 TEE OR ELL
11. PVC MAINLINE
12. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
13. PVC SCH 80 STREET ELL
14. MANUAL FLUSH POINT

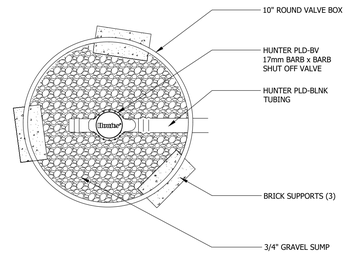
4 DRIP ZONE KIT IN VALVE BOX
NOT TO SCALE FX-IR-LPI-VALV-01



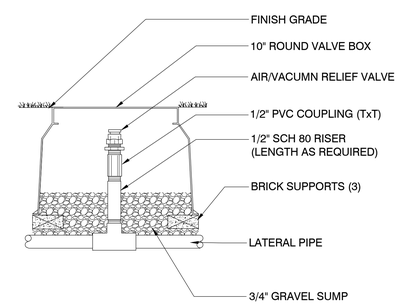

5 AIR RELIEF TUBING
1 1/2" = 1'-0" FX-IR-HUNT-DREQ-02



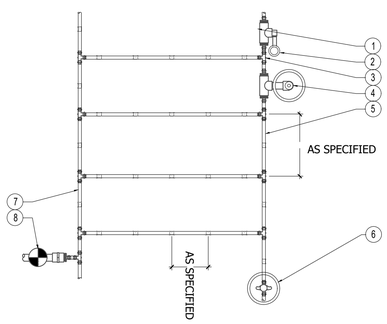

6 FLUSH VALVE AUTO
1 1/2" = 1'-0" FX-IR-HUNT-DREQ-03




7 MANUAL FLUSH VALVE
1 1/2" = 1'-0" FX-IR-HUNT-DREQ-04



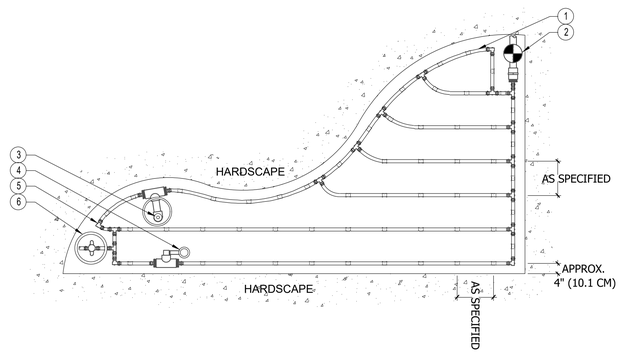

8 AIR RELIEF PVC RISER
1 1/2" = 1'-0" FX-IR-HUNT-DREQ-01




LEGEND:
1. HUNTER DRIPLINE (HDL) PER PLAN
2. ECO-INDICATOR ON SWING ARM
3. PLD OR PLD-LOC FITTINGS TYP.
4. AIR RELIEF VALVE IN VALVE BOX
5. HDL TUBING EXHAUST HEADER
6. FLUSH POINT (PLD-BV) IN SUBTERRANEAN BOX PER PLAN
7. HDL TUBING SUPPLY HEADER
8. DRIP CONTROL ZONE KIT PER PLAN

NOTES
1. AIR RELIEF VALVE (PLD-AVR) INSTALLED IN VALVE BOX AT OPTIMAL HIGHEST POINT FROM CONTROL ZONE KIT. MULTIPLE AIR RELIEF VALVES MAY BE NEEDED TO ACCOMMODATE DIFFERENCES IN GRADE.
2. ECO-INDICATOR TO BE INSTALLED AT OPTIMAL FURTHEST POINT FROM CONTROL ZONE KIT IN CLEAR VIEW WHEN POPPED UP.
3. FLUSH POINT TO BE INSTALLED AT OPTIMAL FURTHEST POINT FROM CONTROL ZONE KIT TO ALLOW FOR MAXIMUM DEBRIS FLUSH IN SYSTEM.

9 HUNTER DRIPLINE - PLANTING BED
NTS HM.HDL.01 W-IR-DRI-01




LEGEND:
1. HUNTER DRIPLINE PER PLAN
2. DRIP CONTROL ZONE KIT PER PLAN
3. AIR RELIEF VALVE IN VALVE BOX
4. ECO-INDICATOR ON SWING ARM
5. PLD OR PLD-LOCK FITTING (TYP.)
6. FLUSH POINT (PLD-BV) IN SUBTERRANEAN BOX PER PLAN

NOTES
1. AIR RELIEF VALVE (PLD-AVR) INSTALLED IN VALVE BOX AT OPTIMAL HIGHEST POINT FROM CONTROL ZONE KIT. MULTIPLE AIR RELIEF VALVES MAY BE NEEDED TO ACCOMMODATE DIFFERENCES IN GRADE.
2. ECO-INDICATOR TO BE INSTALLED AT OPTIMAL FURTHEST POINT FROM CONTROL ZONE KIT IN CLEAR VIEW WHEN POPPED UP.
3. FLUSH POINT TO BE INSTALLED AT OPTIMAL FURTHEST POINT FROM CONTROL ZONE KIT TO ALLOW FOR MAXIMUM DEBRIS FLUSH IN SYSTEM.

10 HUNTER DRIPLINE - IRREGULAR PLANTED AREA
NTS HM.HDL.02 W-IR-DRI-03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# The Chehalis Tribe Chehalis Elder Center

NIEDERMAN RD
OAKVILLE, WA 98568

THE CHEHALIS TRIBE

## BID DOCUMENTS

ISSUE DATE: APRIL 16, 2021

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |

CONTENTS:

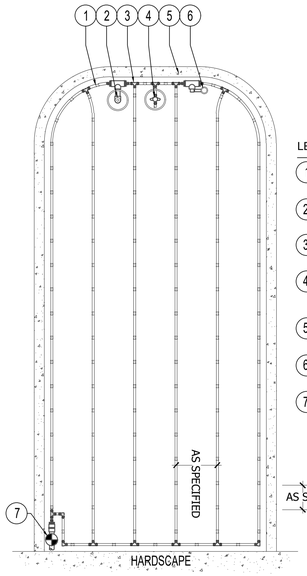
## IRRIGATION DETAILS

SCALE: As indicated
DRAWN: AD / AW / TL
CHECKED: AW
PROJECT NO: 2020006.100

SHEET:

# L5.11

Apr 21, 2021 - 2:59pm




LEGEND:

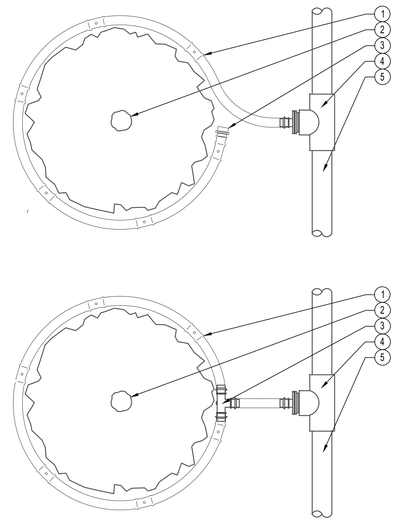
1. HUNTER DRIPLINE (HDL) PER PLAN
2. AIR RELIEF VALVE IN VALVE BOX
3. PLD OR PLD-LOC FITTINGS TYP.
4. FLUSH POINT (PLD-BV) IN SUBTERRANEAN BOX PER PLAN
5. LANDSCAPE ISLAND CURB
6. ECO-INDICATOR ON SWING ARM
7. DRIP CONTROL ZONE KIT PER PLAN

NOTES
1. AIR RELIEF VALVE (PLD-AVR) INSTALLED IN VALVE BOX AT OPTIMAL HIGHEST POINT FROM CONTROL ZONE KIT. MULTIPLE AIR RELIEF VALVES MAY BE NEEDED TO ACCOMMODATE DIFFERENCES IN GRADE.
2. ECO-INDICATOR TO BE INSTALLED AT OPTIMAL FURTHEST POINT FROM CONTROL ZONE KIT IN CLEAR VIEW WHEN POPPED UP.
3. FLUSH POINT TO BE INSTALLED AT OPTIMAL FURTHEST POINT FROM CONTROL ZONE KIT TO ALLOW FOR MAXIMUM DEBRIS FLUSH IN SYSTEM.

Hunter

1 HUNTER DRIPLINE - PARKING LOT ISLAND HM.HDL.03

NTS W-IR-DRI-02



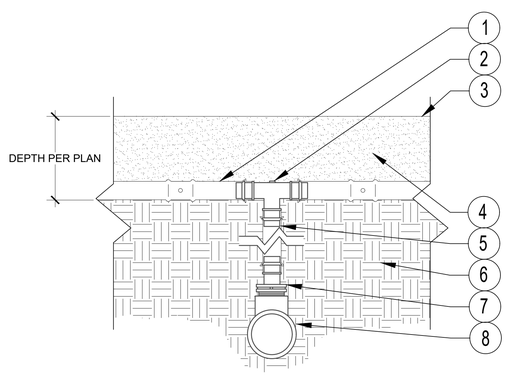

LEGEND:

1. HUNTER DRIPLINE (HDL) PER PLAN
2. TREE (SEE PLANTING PLAN)
3. PLD OR PLD-LOC FITTING TYP.
4. PVC TO DRIP LINE TUBING CONNECTION (PLD OR PLD-LOC FITTINGS) TYP.
5. PVC LATERAL LINE

NOTES
1. AIR RELIEF VALVE (PLD-AVR) INSTALLED IN VALVE BOX AT OPTIMAL HIGHEST POINT FROM CONTROL ZONE KIT. MULTIPLE AIR RELIEF VALVES MAY BE NEEDED TO ACCOMMODATE DIFFERENCES IN GRADE.
2. ECO-INDICATOR TO BE INSTALLED AT OPTIMAL FURTHEST POINT FROM CONTROL ZONE KIT IN CLEAR VIEW WHEN POPPED UP.
3. FLUSH POINT TO BE INSTALLED AT OPTIMAL FURTHEST POINT FROM CONTROL ZONE KIT TO ALLOW FOR MAXIMUM DEBRIS FLUSH IN SYSTEM.

2 HUNTER DRIPLINE - TREE RING HM.HDL.09

NTS W-IR-DRI-05




LEGEND:

1. HUNTER DRIPLINE (HDL) PER PLAN
2. PLD OR PLD-LOC FITTING
3. FINISHED GRADE
4. MULCH (AS SPECIFIED)
5. HDL RISER - LENGTH AS REQUIRED
6. SOIL
7. PLD OR PLD-LOC FITTING
8. PVC SUPPLY HEADER - SIZE PER PLAN

3 HUNTER DRIPLINE - CONNECTION WITH DRIPLINE AND TEE HM.HDL.06

NTS W-IR-DRI-04

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# The Chehalis Tribe Chehalis Elder Center

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THE CHEHALIS TRIBE

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| | | |
| | | |
| | | |
| | | |

CONTENTS:

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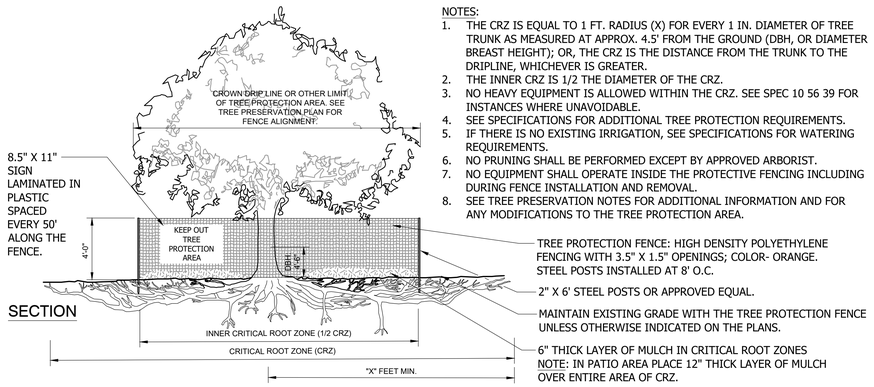
| DRAWN: | AD / AW / TL |
| CHECKED: | AW |
| PROJECT NO: | 2020006.100 |

SHEET:

# L5.12




NOTES:
1. THE CRZ IS EQUAL TO 1 FT. RADIUS (X) FOR EVERY 1 IN. DIAMETER OF TREE TRUNK AS MEASURED AT APPROX. 4.5' FROM THE GROUND (DBH, OR DIAMETER BREAST HEIGHT); OR, THE CRZ IS THE DISTANCE FROM THE TRUNK TO THE DRIPLINE, WHICHEVER IS GREATER.
2. THE INNER CRZ IS 1/2 THE DIAMETER OF THE CRZ.
3. NO HEAVY EQUIPMENT IS ALLOWED WITHIN THE CRZ. SEE SPEC 10 56 39 FOR INSTANCES WHERE UNAVOIDABLE.
4. SEE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.
5. IF THERE IS NO EXISTING IRRIGATION, SEE SPECIFICATIONS FOR WATERING REQUIREMENTS.
6. NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.
7. NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
8. SEE TREE PRESERVATION NOTES FOR ADDITIONAL INFORMATION AND FOR ANY MODIFICATIONS TO THE TREE PROTECTION AREA.

## 1 TREE PROTECTION

1/4" = 1'-0"

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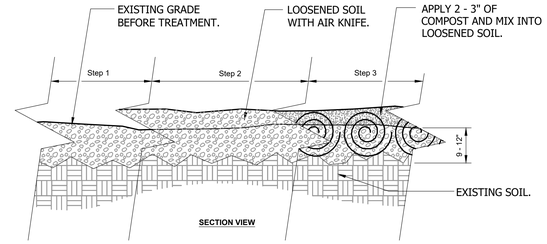
W-PL-TRE1-02




NOTES:
STEP 1 - PRIOR TO THE START OF WORK REMOVE ALL THATCH, SOD, AND/OR WEEDS.
STEP 2 - LOOSEN SOIL WITH AIR KNIFE OR APPROVED EQUAL TO A DEPTH OF 9 - 12" AND WORK AROUND ENCOUNTERED ROOTS.
STEP 3 - APPLY 2 - 3" OF COMPOST OVER LOOSENED SOIL. USING AN AIR KNIFE MIX COMPOST INTO LOOSENED SOIL.
STEP 4 - WATER ENTIRE ROOT ZONE AT END OF EACH WORK DAY.
STEP 5 - SEE PLANTING SOIL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
STEP 6 - APPLY 4" DARK WOOD CHIP MULCH.

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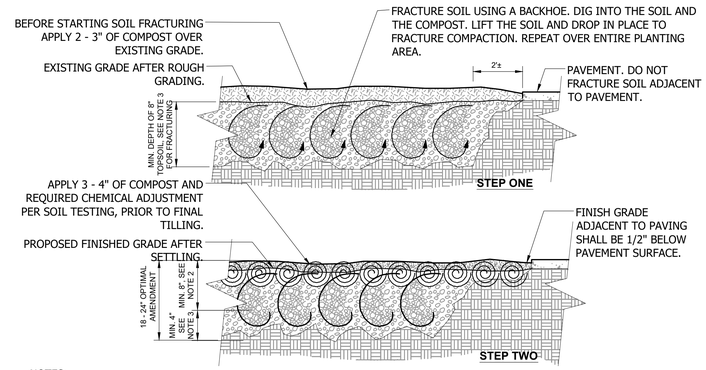
## 2 MODIFIED EXISTING SOIL - COMPACTED SOIL IN TREE DRIPLINE

3/4" = 1'-0"

FX-PL-FX-SOIL-12




NOTES:
1. FOR PLANTING AREAS NARROWER THAN 8', REDUCE THE DISTANCE BETWEEN PAVING AND SOIL FRACTURING FROM 2' TO 1'.
2. MIN. 8" TOPSOIL LAYER TO BE MIN ORGANIC MATTER CONTENT OF 10% AND pH FROM 6.0 TO 8.0 OR MATCHING ORIGINAL UNDISTURBED SOIL.
3. SUBSOILS BELOW TOPSOIL LAYER SHOULD BE SCARIFIED TO AT LEAST 4", 12" FOR OPTIMAL DEVELOPMENT, INCORPORATING SOME UPPER MATERIAL TO AVOID STRATIFIED LAYERS WHERE FEASIBLE.
4. PLANTING BEDS TO BE MULCHED WITH A MIN. OF 2" OF ARBORIST WOOD CHIP MULCH, 4" DEPTH IS OPTIMAL FOR REDUCING WEEDS AND WATER USE.

## 3 MODIFIED EXISTING SOIL - COMPACTED SUB SOIL

1/2" = 1'-0"

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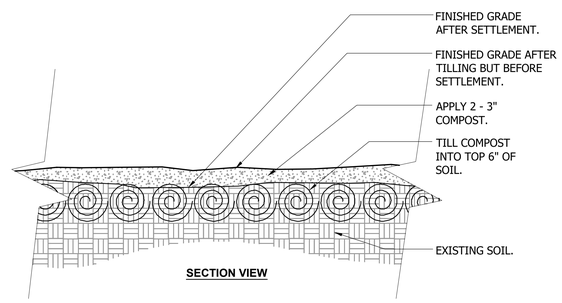
FX-PL-FX-SOIL-08




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

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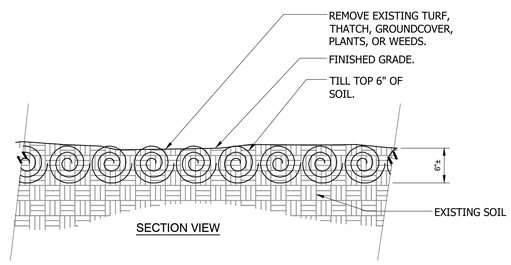
## 4 MODIFIED EXISTING SOIL - COMPACTED SURFACE SOIL

3/4" = 1'-0"

FX-PL-FX-SOIL-11




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

## 5 EXISTING SOIL - MINOR MODIFICATION

3/4" = 1'-0"

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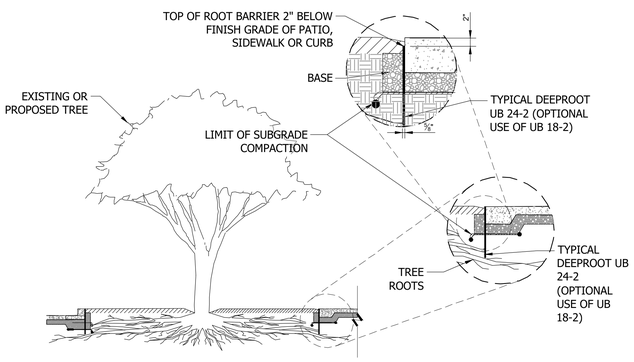
FX-PL-FX-SOIL-13




GENERAL NOTES:
1. LINEAR APPLICATION OF DEEPROOT TREE ROOT BARRIERS AT TIME OF INSTALLING CONCRETE SIDEWALKS, CURBS AND PATIOS.
2. BARRIER INSTALLED IN A TRENCH IN SUBGRADE WHICH IS THEN COMPACTED.
3. BARRIER IS SET SO THAT TOP EDGE WILL BE 2" ABOVE COMPACTED BASE.
4. BARRIER RIBS FACE TOWARD TREE.

INSTALLATION SEQUENCE:
1. PREPARE BASE AND SUBGRADE.
2. TRENCH TO APPROPRIATE DEPTH FOR INSTALLATION OF ROOT BARRIER SO THAT TOP OF BARRIER IS 2" BELOW FINISH GRADE OF TOP OF PATIO.
3. PLACE ROOT BARRIER IN TRENCH, VERTICAL RIBS MUST FACE TOWARD TREE ROOTS.
4. PLACE FORM MATERIAL AGAINST BARRIER. (IT MAY BE NAILED FROM THE OUTSIDE OF THE FORM.)

## 6 ROOT BARRIER

NTS

W-PL-TRE-ROOT-02

Apr 21, 2021 - 2:59pm

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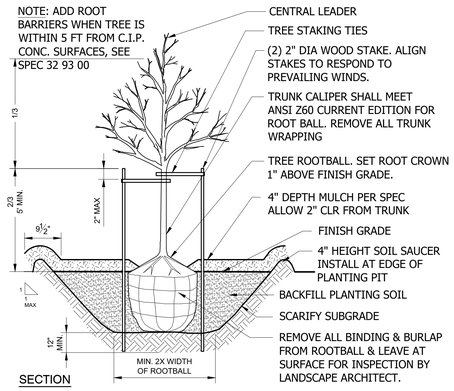
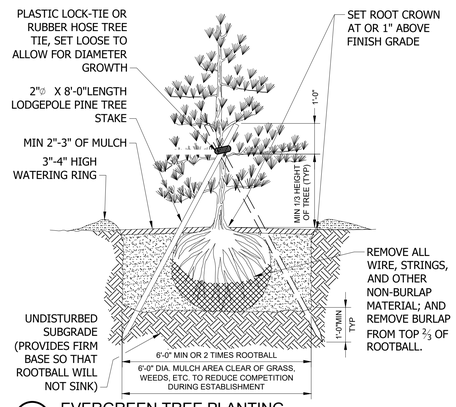
SHEET:

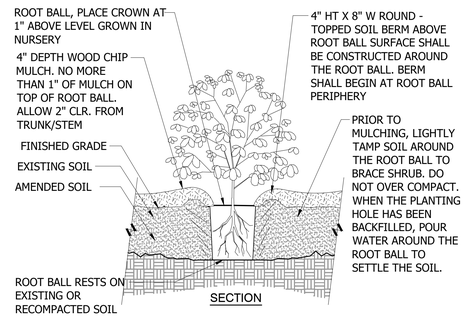
**L5.20**




1 DECIDUOUS TREE PLANTING AT GRADE
3/4" = 1'-0" 329343.39-31

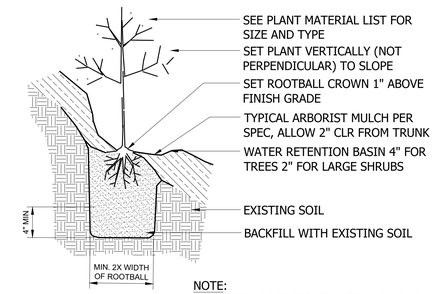



2 EVERGREEN TREE PLANTING
1/2" = 1'-0" W-PR-21



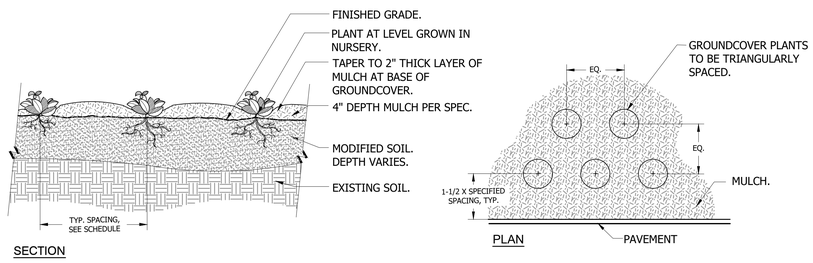

NOTES:
1. FOR LARGE WOODY SHRUBS, REMOVE ALL BINDING AND BURLAP FROM TRUNK AND ROOTBALL.

3 SHRUB PLANTING
3/4" = 1'-0" FX-PL-FX-SHRB-03



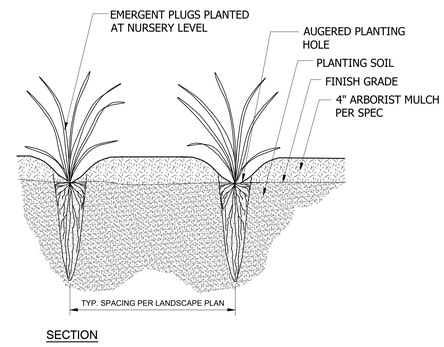

NOTE:
1. STAKING OF TREES PER DETAIL 2/L2.02

4 SHRUB/GROUND COVER PLANTING ON SLOPE, TYP.

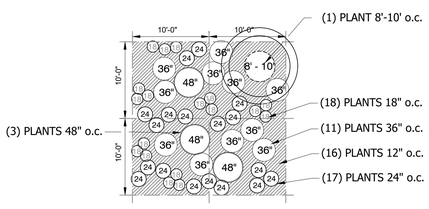



NOTES:
1. SMALL ROOTS (1/4" OR LESS) THAT GROW AROUND, UP, OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE HOWEVER THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING. ROOTS ON THE PERIPHERY TO BE REMOVED AT THE TIME OF PLANTING.
2. SETTLE SOIL AROUND ROOT BALL OF EACH GROUNDCOVER PRIOR TO MULCHING.
3. PLANTS TO MEET ANSI STANDARDS.

5 GROUNDCOVER - TRIANGULAR SPACING - KP
3/4" = 1'-0" URBAN TREE FOUNDATION © 2014 OPEN SOURCE FREE TO USE P-PR-STI-06

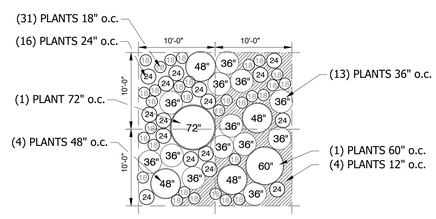



6 EMERGENT PLUGS PLANTING TYP.
1" = 1" 3292-02




NOTE:
1. TYPICAL CONDITIONS WILL VARY PER SITE, CONTRACTOR TO USE THIS "TYPICAL" PLANTING LAYOUT AS A GUIDE TO ARRANGE PLANTS AND LAYOUT PLANTING BEDS, FIELD VERIFY PLANTINGS W/ LANDSCAPE ARCHITECT OR PROJECT ENGINEER.
2. SEE SHT L3.10 FOR SPACING PER SPECIES.
3. PLANT SMALLER SHRUBS IN CLUSTERS OF 3 - 5 PLANTS PER SPECIES
4. MAINTAIN 8' MIN. CLEARANCE FROM EXISTING TREES, ADJUST PLANTING TO AVOID EXISTING ROOTS, TYP.
5. GROUNDCOVER UNDER DECIDUOUS SHRUBS, TYP.

7 TYPICAL PLANT LAYOUT - RESTORATION TYPE 1
1/8" = 1'-0" P-PR-SVP-98




NOTE:
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2. SEE SHT L3.10 FOR SPACING PER SPECIES.
3. PLANT SHRUBS IN CLUSTERS OF 3 - 5 PLANTS PER SPECIES
4. MAINTAIN 8' MIN. CLEARANCE FROM EXISTING TREES, ADJUST PLANTING TO AVOID EXISTING ROOTS, TYP.
5. GROUNDCOVER UNDER DECIDUOUS SHRUBS, TYP.

8 TYPICAL PLANT LAYOUT - RESTORATION TYPE 2
1/8" = 1'-0" P-PR-SVP-99


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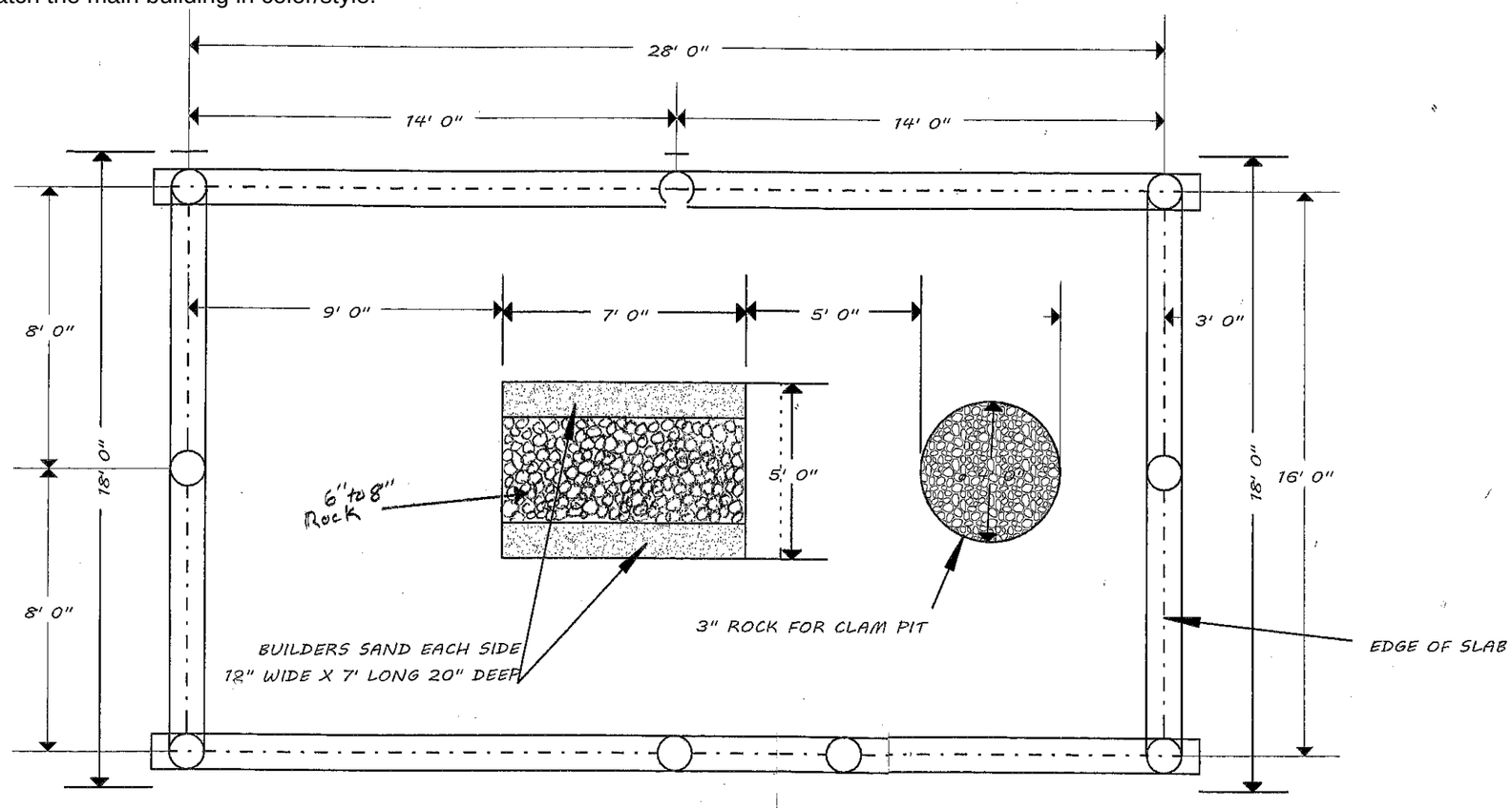
SHEET:
**L5.21**

Apr 21, 2021 - 2:59pm

ELDER'S CENTER FISH PIT DESCRIPTION (AS INTERPRETED FROM TRIBAL ELDERS LOCATION)

Building size should be no less than 16' X 28' over slab on grade with fine broom finish and a slight slope for water run off to the perimeter short walls.
This structure should be 20' minimum from the main building, see landscape/civil plans for exact location.

Exterior short walls shall be 40" tall, sided 1x8 Cedar #2 or better stained to enhance natural cedar tones. Top of the wall shall have a continuous 12" wide top cap to serve as a place for dinner plates prior to sitting to eat. While the fish is cooking, community members like to visit with the cooks perhaps help and socialize this is culturally very important. Please allow for 17" H X 12" W bench seating on two sides of the interior side of the wall, both to consist of 8' long. The sketch shows using ash or other hardwood, as it is preferred around the fires because of its resistance to fire. Rafters and collar ties and structural webbing should be pealed hardwood poles also. Roofing material shall match the main building in color/style.




Fish pit rocks, tribal members have always collected rocks from the riverbed but the moisture content in them causes some to pop or even explode and perhaps shooting hot fragments at people. Pit run material has less of a moisture content. Elders as children were taught to gather 6" to 8" rocks for the fire pit, they do not have to be uniform but oval to round without jagged sides, the old way says they cannot have divots but be fairly smooth.

The clam pit should be about 48'' in diameter, the rocks are heated and mounded up, the clams are added on top and covered with wet gunnysacks or woven cedar bark, this steams them to plate ready. These rocks are smaller 2" to 4" in in diameter. See mechanical drawings for an added ¾" yard hydrant and associated 3/4" water line just outside an exterior wall to extinguish all fires and for hose down cleanup. See electrical drawings for a 20a electrical circuit for overhead lighting & 2 receptacles.

General Notes

CPRS Designs Works

| DRAWN BY | LGN | 5/1/21 |
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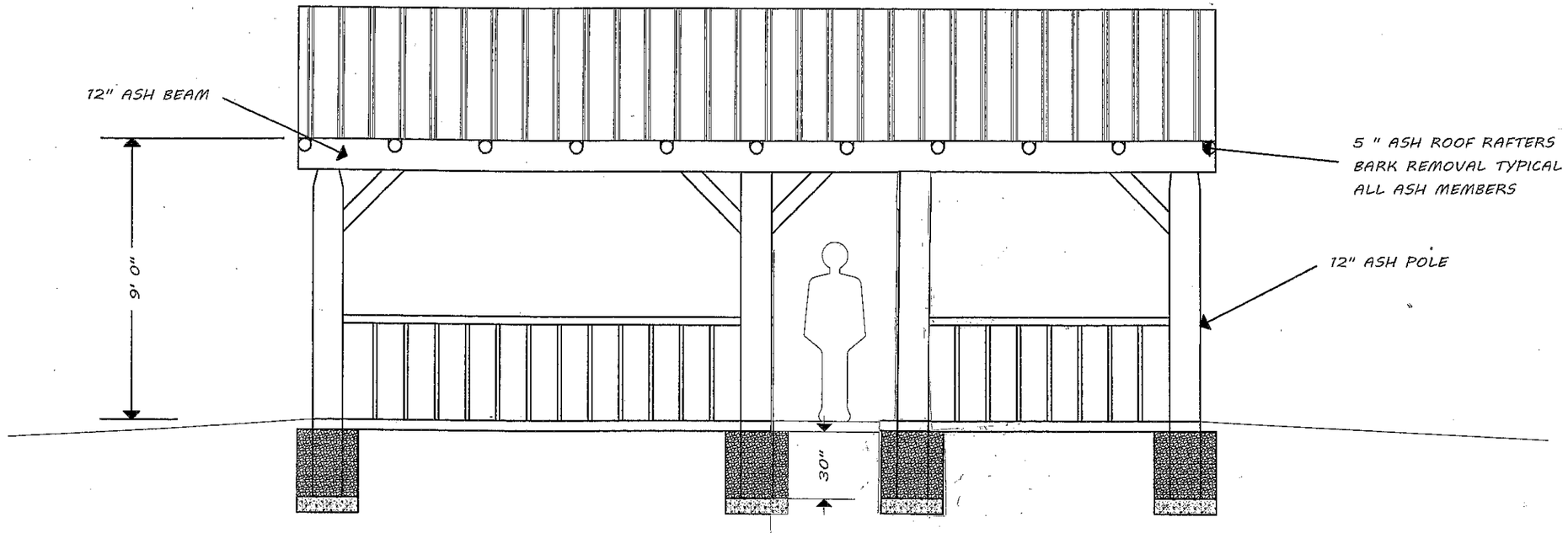
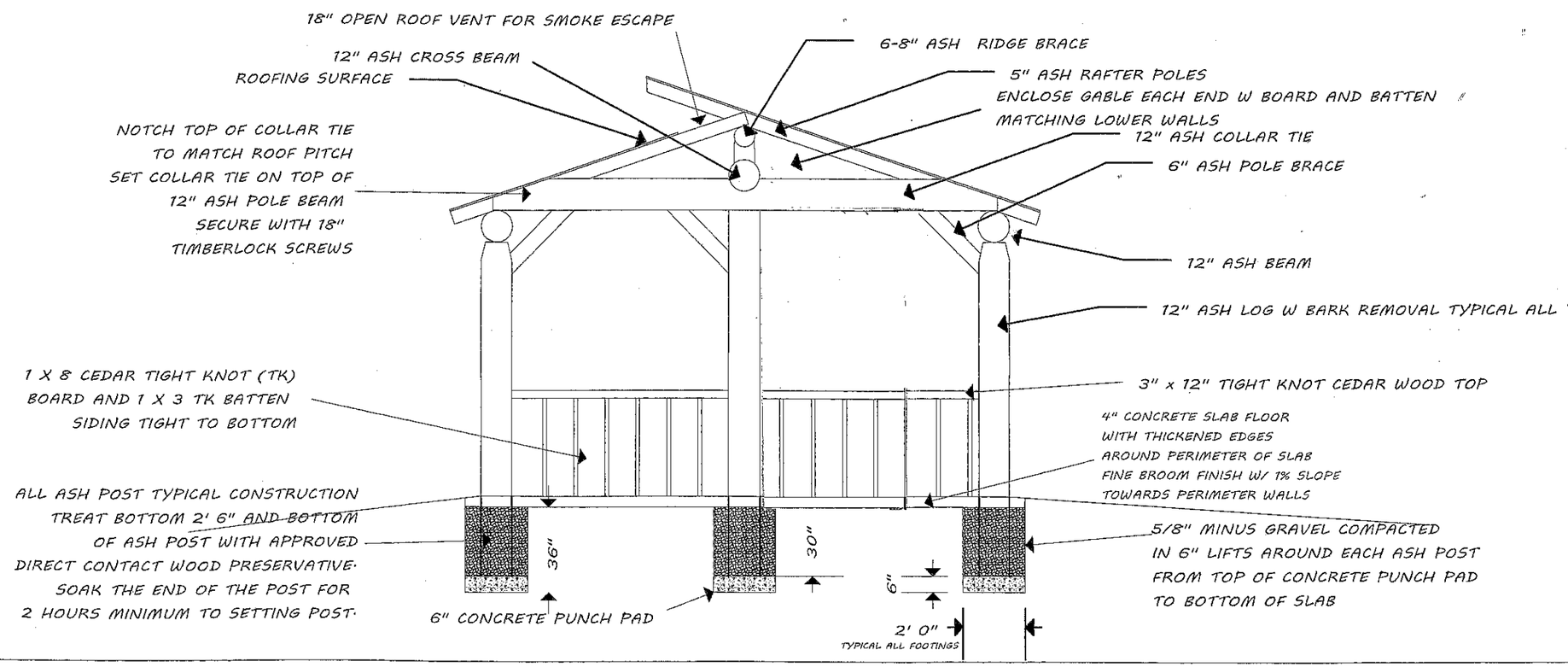
| No. | Revision/Issue | DATE |

PHONE NUMBER
1-360-508-1669

Project Name and Address
Timber Fish House
Confederated Tribes of the Chehalis Reservation

| Project | Sheet |
|---|---|
| Timber Fish House | FLOOR PLAN |
| Date 5/1/21 | |
| Scale 1/4"= 1'-00" | |




General Notes

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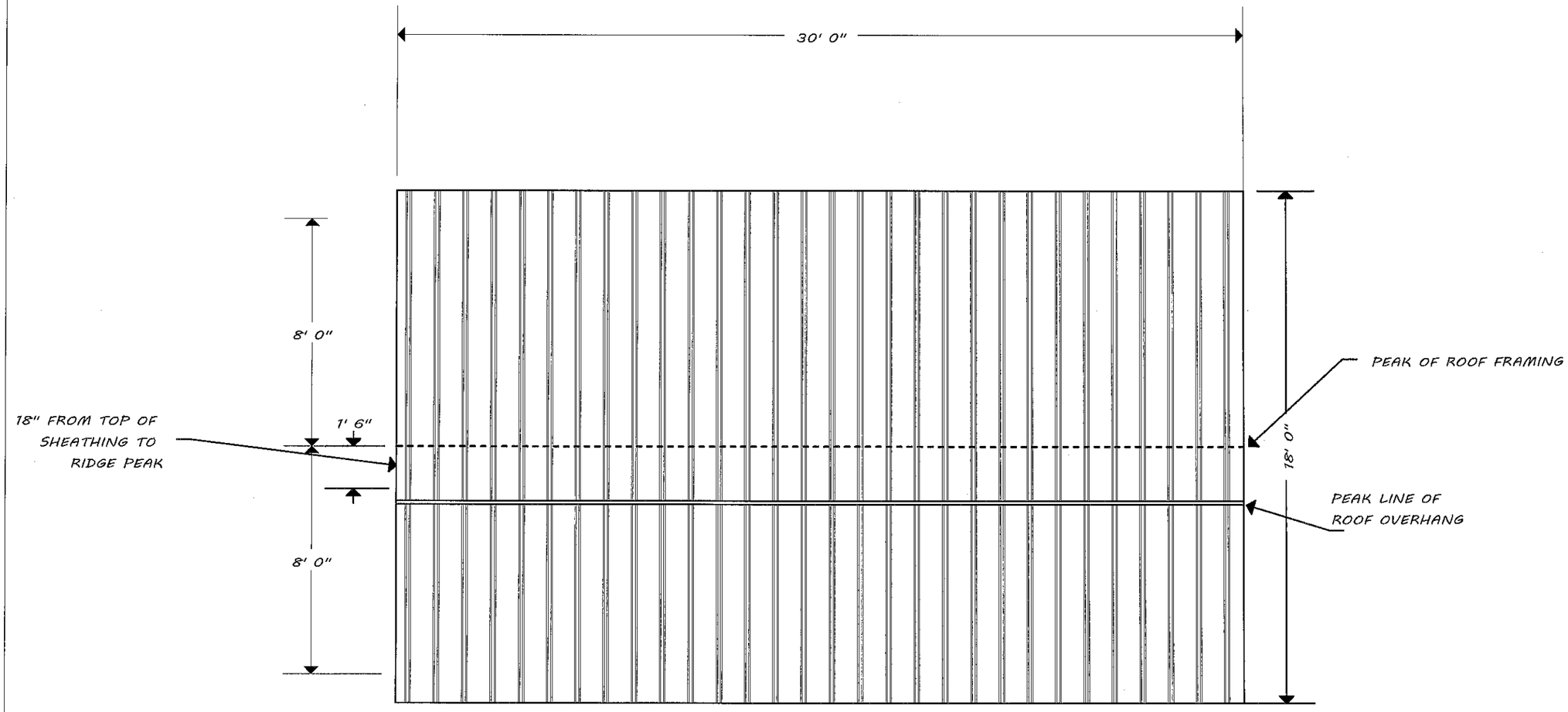
|---|---|---|
| | | |
| No. | Revision/Issue | DATE |


PHONE NUMBER
1-360-508-1669


Project Name and Address
Timber Fish House
Confederated Tribes of
the Chehalis Reservation

| Project | Sheet |
|---|---|
| Timber Fish House | ELEV PLAN |
| Date 5/1/21 | |
| Scale 1/4"= 1'-00" | |




# ROOF COVERING

General Notes

CPRS Designs Works

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| No. | Revision/Issue | DATE |

**PHONE NUMBER**

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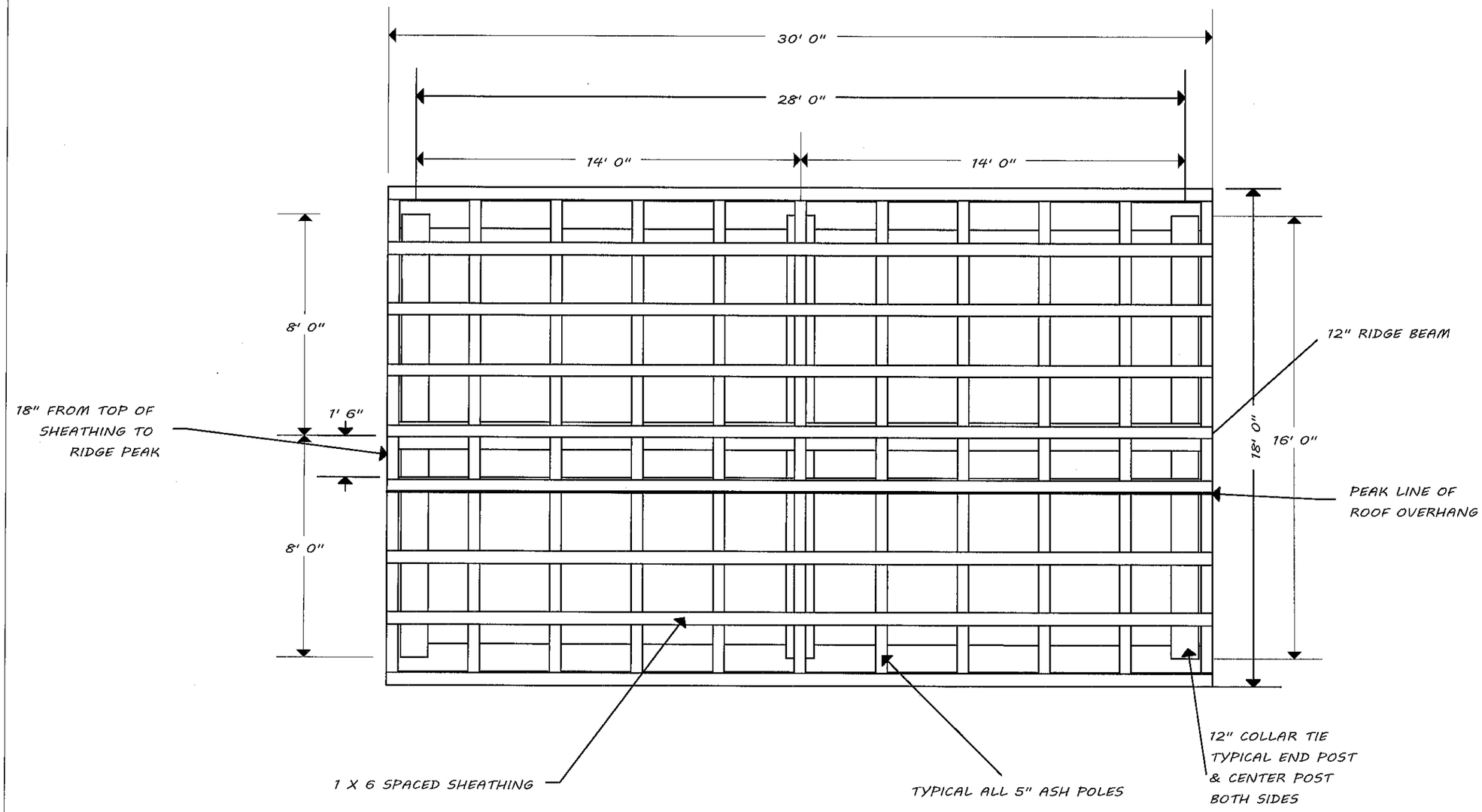
**Project Name and Address**

Timber Fish House
Confederated Tribes of the Chehalis Reservation

| Project | Sheet |
|---|---|
| Timber Fish House | ROOF FRAME |
| Date 5/3/21 | |
| Scale 1/4"= 1'-00" | |




# ROOF FRAMING

General Notes

CPRS Designs Works

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|---|---|---|
| | | |
| No. | Revision/Issue | DATE |

**PHONE NUMBER**

1-360-508-1669

**Project Name and Address**

Timber Fish House
Confederated Tribes of the Chehalis Reservation

| Project | Title |
|---|---|
| Timber Fish House | ROOF FRAME |
| Date 5/3/21 | |
| Scale 1/4"= 1'-00" | |