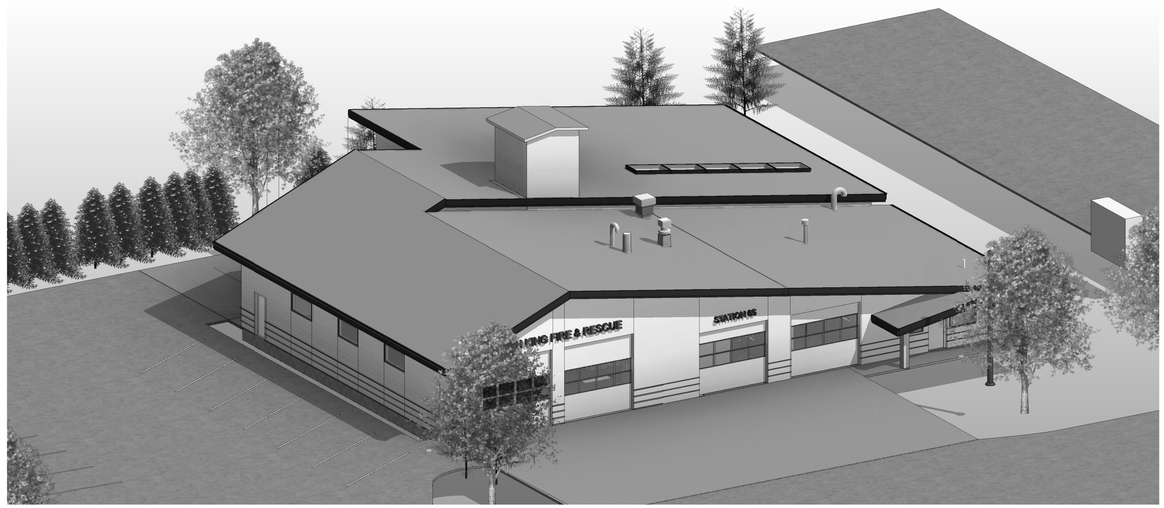
SOUTH KING FIRE & RESCUE

FACILITY IMPROVEMENTS
FIRE STATION 65



PROJECT DESCRIPTION

PROJECT INFORMATION

ESTIMATE DOLLAR VALUE OF WORK: $870,000

PARCEL NUMBER: 0321049126
PROPERTY TAX ACCOUNT NUMBER: 0321049126

BUILDING ADDRESS: 4966 SOUTH 298th STREET, AUBURN, WASHINGTON 98001
PRESENT USE: FIRE STATION

RELATING PERMITS: NONE

SPRINKLERED: YES

FIRE ALARM: YES

ZONING: RS-7,231 RESIDENTIAL

METHOD OF HEATING: ELECTRICAL, GAS

METHOD OF LIGHTING EQUIPMENT COMPLIANCE: LIGHTING POWER ALLOWANCE

SCOPE OF WORK

SITE IMPROVEMENTS:

- **REMOVE EXISTING GENERATOR AND INSTALL NEW GENERATOR**
- **MINOR ASPHALT RESTORATION**

SELECTIVE DEMOLITION:

- **DEMOLITION OF INTERIOR WALLS, CEILINGS, CONCRETE SLAB ON GRADE, MECHANICAL, PLUMBING AND ELECTRICAL**

INTERIOR RENOVATION:

- **CONSTRUCT NEW INTERIOR WALLS**
- **INSTALLATION OF NEW INTERIOR DOORS**
- **INSTALLATION OF NEW SECTIONAL DOORS**
- **INSTALLATION OF NEW FINISHES**
- **SEISMIC UPGRADES**
- **MECHANICAL, PLUMBING AND ELECTRICAL IMPROVEMENTS**

PROJECT TEAM

OWNER:

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PHONE: 253-927-3118
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MECHANICAL & PLUMBING:

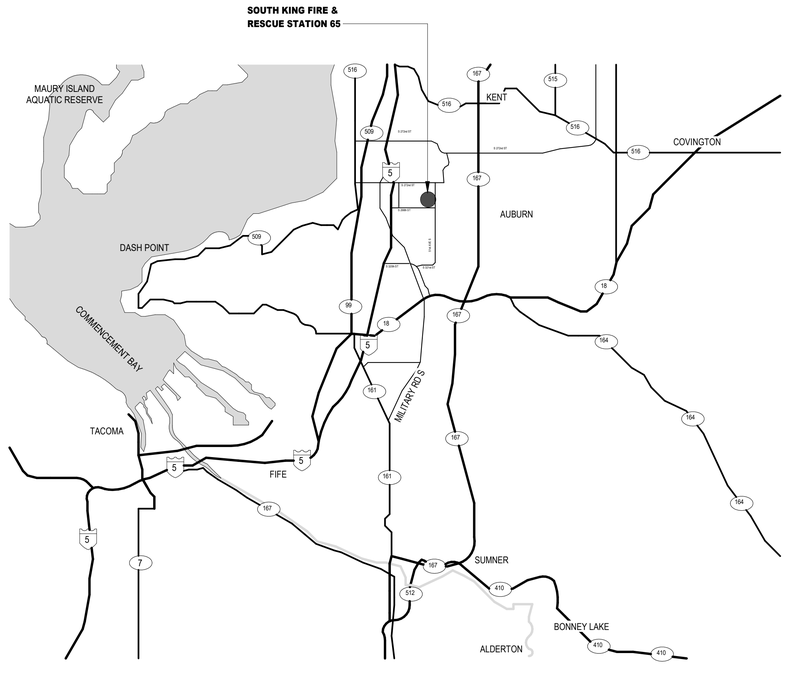
SIDER + BYERS
192 NICKERSON, SUITE 300
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EMAIL: james@siderbyers.com

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CONTACT: ETHAN TRACY
EMAIL: EthanT@ehsintl.com



1 VICINITY MAP
NTS

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STATE OF WASHINGTON

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FACILITY IMPROVEMENTS
FIRE STATION 65 4966 SOUTH 298th STREET,
AUBURN, WA 98001

PROJECT # 2015137.01

BID SET

ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE

COVER SHEET AND GENERAL PROJECT INFORMATION

SHEET:

G00.01

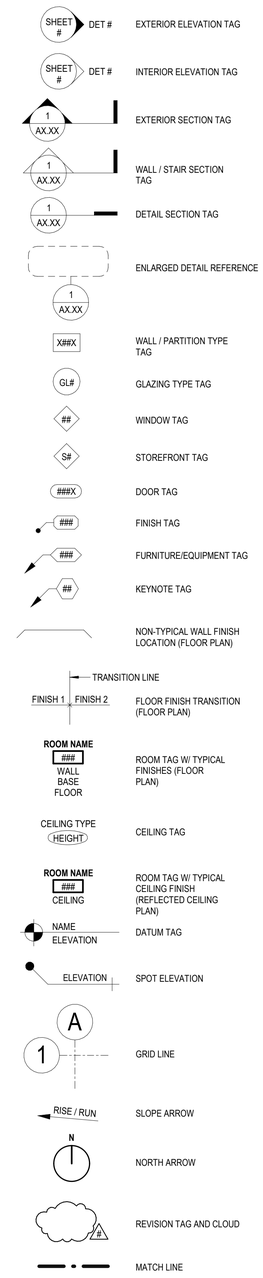
ABBREVIATION LIST

-- A --	
A	AMP
A/V	AUDIO VISUAL
AB	ANCHOR BOLT
ACC	ACCESSORIES
ACST	ACOUSTIC(AL)
ACT	ACOUSTIC CEILING TILE
ADJ	ADJACENT, ADJUST(ABLE)
AFF	ABOVE FLOOR FINISH
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATELY
ARCH	ARCHITECT(URAL)
AUTO	AUTOMATIC
-- B --	
BD	BOARD
BITUM	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BO	BOTTOM OF
BR	BEDROOM
BTWN	BETWEEN
BUR	BUILT UP ROOF(ING)
-- C --	
CAB	CABINET
CALC	CALCULATION
CB	CATCH BASIN, CORNER BEAD
CEM	CEMENT
CFOI	CONTRACTOR FURNISHED & OWNER INSTALLED
CG	CORNER GUARD
CH	COAT HOOK
CIP	CAST IN PLACE
CJ	CONTROL JOINT, CONSTRUCTION JOINT
CL	CENTERLINE
CLG	CEILING
CLKJ	CAULKED JOINT
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECT(ION)
CONSTR	CONSTRUCTION
CONT	CONTINUE, CONTINUOUS
CONTR	CONTRACTOR
CORRD	CORDINATE
CORR	CORRIDOR
COV	COVE
CP	CEMENT PLASTER
CPT	CARPET
CRK	CORK
CRL	CHAIR RAIL
CS	CONCRETE SEALER
CSMT	CASEMENT
CTR	CENTER
-- D --	
D	DEEP, DRYER
DBL	DOUBLE
DEB	DRY ERASE BOARD
DEMO	DEMOLISH, DEMOLISION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPOSAL
DL	DEAD LOAD
DN	DOWN
DP	DECORATIVE PANEL
DR	DOOR, DINING ROOM, DRAIN
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING
DWR	DRAWER
-- E --	
E	EAST
EA	EACH
EC	EDGE OF CURB
EE	EACH END
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR, ELEVATION
EMER	EMERGENCY
ENCL	ENCLOSE(D), ENCLOSURE
EP	ELECTRICAL PANELBOARD
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE(D)
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPOSED, EXPANSION
EXT	EXTERIOR
-- F --	
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDMPR	FIRE DAMPER
FDTN	FOUNDATION
FDV	FIRE DEPARTMENT VALVE
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH, FINISH FACE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK, FIRE HOSE REEL
FIN	FINISHED
FIN FLR	FINISHED FLOOR
FIXT	FIXTURE
FLASH	FLASHING
FLR	FLOOR
FLUOR	FLUORESCENT
FMF	FLEXIBLE MEMBRANE FLASHING
FOB	FACE OF BRICK
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FPL	FIREPLACE
FRP	FIBER REINFORCED PLASTIC
--F--	
FRTW	FIRE RETARDANT TREATED WOOD
FRZ	FREEZER
FS	FULL SIZE
FT	FOOT, FEET
FTG	FOOTING
FURN	FURNITURE
FUT	FUTURE
-- G --	
G	GROUND
GA	GAUGE
GALV	GALVANIZED
GAR	GARAGE
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GEN	GENERAL
GFRG	GLASS REINFORCED PLASTER, GLASS FIBER REINFORCED GYPSUM
GI	GALVANIZED IRON
GL	GLASS
GLULAM	GLUE LAMINATED
GR	GROSS
GT	GROUT
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
-- H --	
H	HIGH, HEIGHT
HB	HOSE BIB
HC	HOLLOW CORE, HANDICAPPED
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HGR	HANGER
HM	HOLLOW METAL
HRL	HANDRAIL
HORIZ	HORIZONTAL
HR	HOURS
HT	HEIGHT
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
HWT	HOT WATER TANK
-- I --	
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER, INSIDE DIMENSION
IFC	INTERNATIONAL FIRE CODE
IIC	IMPACT INSULATION CLASS
IMC	INTERNATIONAL MECHANICAL CODE
IN	INCH(ES)
INC	INCREASE
INCL	INCLUDE(D), INCLUDING
INFO	INFORMATION
INSTL	INSTALL(ATION)
INSUL	INSULATION
INT	INTERIOR
-- J --	
JAN	JANITOR
JBOX	JUNCTION BOX
JT	JOINT
-- K --	
KD	KILN DRIED
KIT	KITCHEN
KW	KILOWATT
-- L --	
L	LEFT, LINEN, LONG
LAB	LABORATORY
LAM	LAMINATE(D)
LAU	LAUNDRY
LAV	LAVATORY
LB(S)	POUND(S)
LDG	LANDING
LINO	LINOLEUM
LL	LIVE LOAD
LOC	LOCATION
LPT	LOW POINT
LR	LIVING ROOM
LRG	LARGE
LT	LIGHT
LTG	LIGHTING
LVR	LOUVER
-- M --	
M&S	MIRROR & SHELF
MACH	MACHINE
MAINT	MAINTENANCE
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MBR	MASTER BEDROOM
MC	MEDICINE CABINET
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANIC(AL)
MED	MEDIUM
MEDS	MEDICINE, MEDICAL
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MFRREC	MANUFACTURER'S RECOMMENDATION(S)
MGR	MANAGER
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING, MONITOR
MTD	MOUNTED
MTL	METAL
MULL	MULLION
MULT	MULTIPLE
MW	MICROWAVE OVEN
-- N --	
N	NORTH
NA	NOT APPLICABLE
NC	NOISE CRITERIA, NURSE CALL
NCAP	NURSE CALL ANNUNCIATOR PANEL
NCOMBL	NON-COMBUSTIBLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NT	NET
NTS	NOT TO SCALE
-- O --	
O/	OVER
OA	OVERALL
OC	ON CENTER
OCC	OCCUPANTS, OCCUPANT LOAD, OCCUPANCY
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED & CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED & OWNER INSTALLED
OFD	OVERFLOW DRAIN
OFF	OFFICE
OGL	OBSCURE GLASS
OHDR	OVERHEAD DOOR
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OZ	OUNCE
-- P --	
P	PAINT(ED), PANTRY
PC	PORTLAND CEMENT
PCC	PRECAST CONCRETE
PED	PEDESTAL
PERF	PERFORATED
PERM	PERMANENT
PERP	PERPENDICULAR
PFP	PREPARED FOR PAINT
PIV	POST INDICATOR VALVE
PL	PLATE, PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLYWD	PLYWOOD
PMTL	PAINTED METAL
PNT	POINT
PP	POWER POLE
PR	PAIR
PREFAB	PREFABRICATE
PRELIM	PRELIMINARY
PRKG	PARKING
PROP	PROPERTY
PS	PROJECTOR SCREEN
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESERVATIVE TREATED, PRESSURE TREATED, POST TENSIONED
PTD	PAPER TOWEL DISPENSER
PTDWRC	PAPER TOWEL DISPENSER & WASTE RECEPTACLE
PTN	PARTITION
PVC	POLYVINYL CHLORIDE, POLYVINYL CHLORIDE PIPE
PVD	PROVIDE
PVG	PAVING
PVR	PAVERS
-- Q --	
QTY	QUANTITY
QTZ	QUARTZ
-- R --	
R	RISER, RANGE, WIRE MESH RADIUS
R/S	ROD & SHELF
RA	RETURN AIR
RCF	RAISED COMPUTER FLOOR
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REBAR	REINFORCING BAR
REC	RECESSED
RECPT	RECEPTACLE
REF	REFERENCE, REFRIGERATOR
REINF	REINFORCE(D), REINFORCING
RES	RESILIENT FLOORING
REQD	REQUIRED
REST	RESTROOM
RET	RETAINING
REV	REVISED, REVISION
RH	ROBE HOOK
RM	ROOM
RO	ROUGH OPENING
RP	RADIUS POINT
RS	ROUGH SAWN
RT	RIGHT
RVL	REVEAL
-- S --	
S	SOUTH, SINK
S/R	SHELF & ROD
SAN	SANITARY
SC	SOLID CORE
SCD	SEAT COVER DISPENSER
SCHED	SCHEDULE
SD	SOAP DISH, SOAP DISPENSER, STORM DRAIN
SEAL	SEALER, SEALANT
SECT	SECTION
SEP	SEPARATION
SF	SQUARE FEET
SG	SAFETY GLASS, SAFETY GLAZING
SHR	SHOWER
SHT	SHEET
SHTG	SHEATHING, SHEETING
SHLV	SHELVING
SIM	SIMILAR
SM	SHEET METAL
SND	SANITARY NAPKIN DISPENSER
SOG	SLAB ON GRADE
SOL	SOLID SURFACE
STO	STONE
SPECS	SPECIFICATION(S)
SPKLR	SPRINKLER
SPKR	SPEAKER
SQ	SQUARE
SQIN	SQUARE INCH
SS	SERVICE SINK, SANITARY SEWER
SST	STAINLESS STEEL
ST	STREET, STAIN
STA	STATION
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STIR	STIRRUP
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SU	SOILED UTILITY
SUBFL	SUBFLOOR
SUSP	SUSPENDED
SW	SWITCH
SYM	SYMMETRICAL
-- T --	
T	TREAD, TILE
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TB	TOWEL BAR
TEL	TELEPHONE
TEMP	TEMPORARY, TEMPERATURE
TER	TERRAZZO
THK	THICK(NESS)
TI	TENANT IMPROVEMENT
TL	TOTAL LOAD
TMPD	TEMPERED
TO	TOP OF
TOB	TOP OF BEAM
TOC	TOP OF CURB, TOP OF CONCRETE
TOF	TOP OF FOOTING, TOP OF FLOOR, TOP OF FRAME
TOS	TOP OF SLAB, TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TR	TRANSITION STRIP
TV	TELEVISION
TYP	TYPICAL
-- U --	
UC	UNDERCOUNTER, UNDERCABINET, UNDERCUT
UGND	UNDERGROUND
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UP	UTILITY POLE
UPC	UNIFORM PLUMBING CODE
UTIL	UTILITY
-- V --	
V	VOLT(AGE)
VCT	VINYL COMPOSITION TILE
VEH	VEHICLE
VEND	VENDING MACHINE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VNR	VENEER
VTO	VENT TO OUTSIDE
VTR	VENT THROUGH ROOF
-- W --	
W	WEST, WIDE, WASHING MACHINE
W/	WITH
W/D	WASHER & DRYER
W/O	WITHOUT
WB	WALL BASE
WC	WATER CLOSET, WALL COVERING
WCO	WINDOW COVERING
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE
WH	WATER HEATER
WIC	WALK-IN CLOSET
WM	WIRE MOLD, WATER METER, WIRE MESH
WO	WALK-OFF FLOORING
WP	WORK POINT, WATERPROOFING, WEATHER PROOF
WPM	WATERPROOF MEMBRANE
WR	WATER REPELLENT, WATER RESISTANT
WRB	WATER RESISTANT BARRIER
WRC	WAIST RECEPTACLE
WSCT	WAINSCOT
WSEC	WASHINGTON STATE ENERGY CODE
WSVIAQC	WASHINGTON STATE VENTILATION & INDOOR AIR QUALITY CODE
WT	WEIGHT
WWF	WELDED WIRE FABRIC

--ASSOCIATIONS--

AISI	AMERICAN IRON AND STEEL INSTITUTE
AMCA	AIR MOVING & CONDITIONING ASSOCIATION, INC.
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	AMERICAN PLYWOOD ASSOCIATION
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
ARIB	ASPHALT ROOFING INDUSTRY BUREAU
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
AWI	AMERICAN WOODWORK INSTITUTE
AWS	AMERICAN WELDING SOCIETY
AWWA	AMERICAN WATER WORKS ASSOCIATION
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CS	COMMERCIAL STANDARD OF THE U.S. DEPARTMENT OF COMMERCE
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE
FGMA	FLAT GLASS MARKETING ASSOCIATION
HUD	US DEPARTMENT OF HEALTH AND URBAN DEVELOPMENT
ICC	INTERNATIONAL CODE COUNCIL
IBC	INTERNATIONAL BUILDING CODE
IEEE	INSTITUTE OF ELECTRICAL & ELECTRONIC ENGINEERS
IPCEA	INSULATED POWER CABLE ENGINEER ASSOCIATION
MLA	METAL LATH ASSOCIATION
NAAMM	NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS
NEMA	NATIONAL FIRE PROTECTION ASSOCIATION
NWMA	NATIONAL WOODWORK MANUFACTURER'S ASSOCIATION
OSHA	OCCUPACTIONAL SAFETY AND HEALTH ADMINISTRATION
PS	PRODUCT STANDARD OF U.S. DEPARTMENT OF COMMERCE
SDI	STEEL DECK INSTITUTE
SDI	STEEL DOOR INSTITUTE
SMACNA	SHEET METAL & AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SSPC	STEEL STRUCTURES PAINTING COUNCIL
TCA	TILE COUNCIL OF AMERICA
UL	UNDERWRITER'S LABORATORIES
WAC	WASHINGTON ADMINISTRATIVE CODE
WISHA	WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT
WSDOH	WASHINGTON STATE DEPARTMENT OF HEALTH
WSDSHS	WASHINGTON STATE DEPARTMENT OF SOCIAL AND HEALTH SERVICES
WSEC	WASHINGTON STATE ENERGY CODE
WSVIAQC	WASHINGTON STATE VENTILATION & INDOOR AIR QUALITY CODE
WWPA	WESTERN WOOD PRODUCTS ASSOCIATION

SYMBOL LEGEND



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STATE OF WASHINGTON

SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
FIRE STATION 65 4966 SOUTH 298th STREET,
AUBURN, WA 98001

PROJECT # 2015137.01

BID SET

ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE

ABBREVIATION LIST AND SYMBOL LEGEND

SHEET:

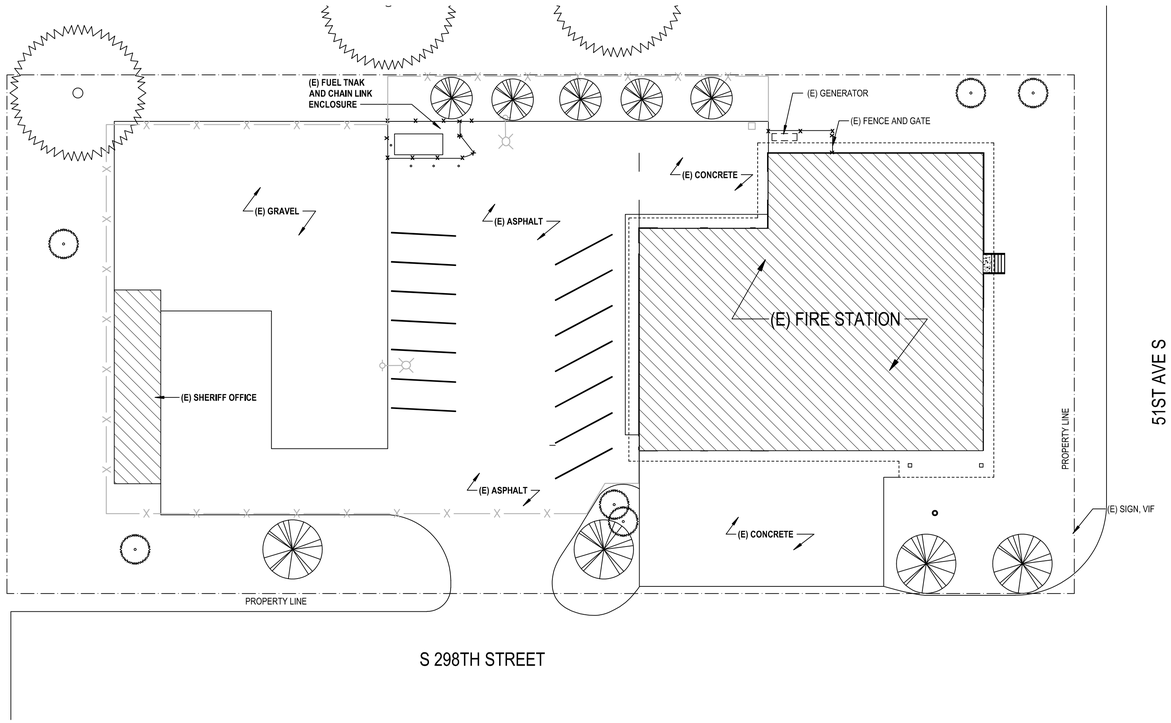
G00.02

LEGEND:

TREE

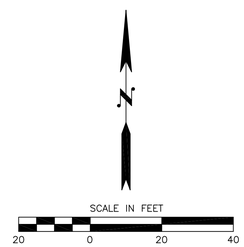
BUILDING FOOTPRINT

(E) EXISTING



SURVEY NOTE:

THIS IS A COMPOSITE MAP CONSISTING OF INFORMATION FROM SITE OBSERVATIONS AND RECORD DRAWINGS. SITE FEATURES ARE APPROXIMATE.



RICE FERGUS MILLER
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SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS

FIRE STATION 65 4966 SOUTH 298TH STREET,
AUBURN, WA 98001

Project Number 2015137

BID SET

ISSUED: SEPTEMBER 3, 2021

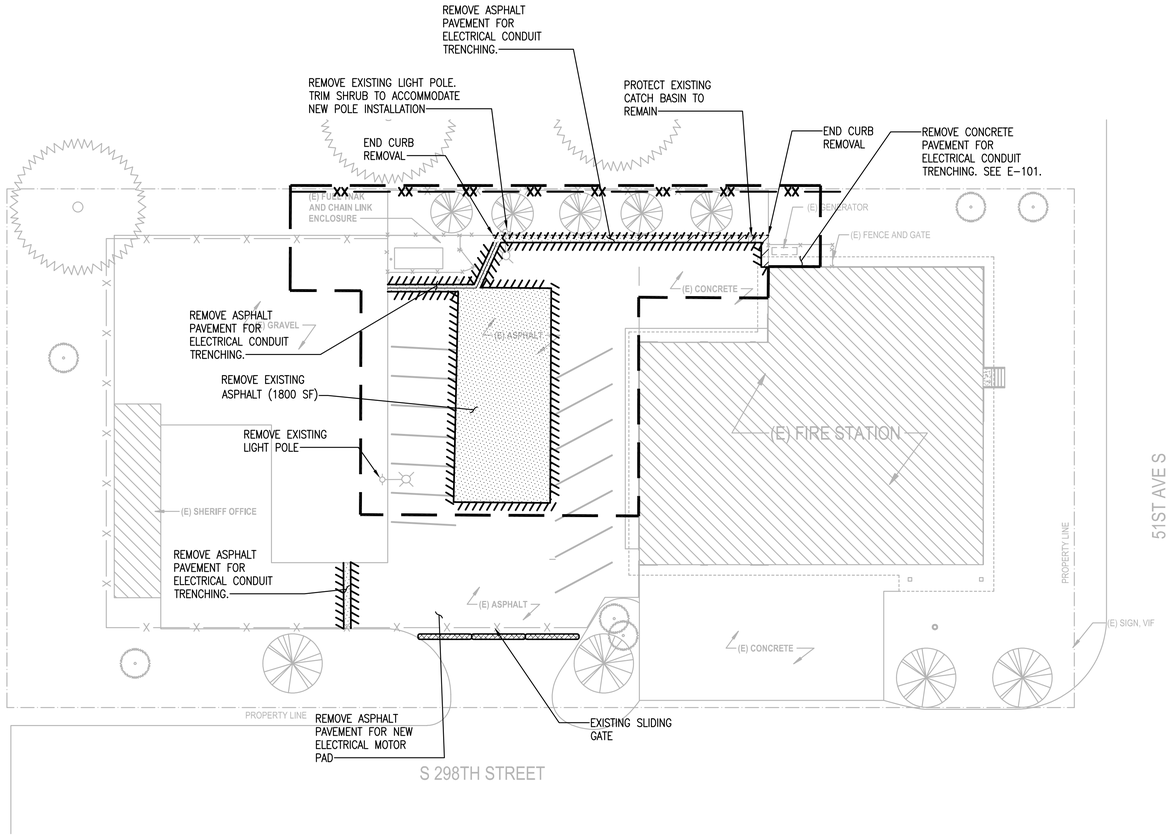
REVISION SCHEDULE	

EXISTING
CONDITIONS MAP

SHEET:

C00.01

09/02/2021 8:47am H:\21Cp\17\023 SKFR, Station 65 Fac Imprvmnts, Auburn\Drafting\Design - CAD 2015\1723-65_C0.1EXST.dwg



LEGEND:

- SILT SOCK BARRIER
- FILTER FABRIC FENCE (1 / C1.00 | C3.00)
- SAWCUT PAVEMENT
- REMOVE ASPHALT PAVEMENT
- REMOVE CONCRETE PAVEMENT
- LIMITS OF CONSTRUCTION
- REMOVE EXTRUDED CURB

NOTE: SEE C0.01 FOR EXISTING FEATURES LEGEND.

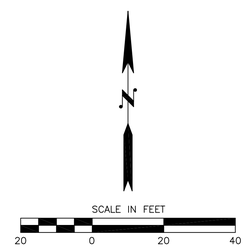
NOTES:

1. PROTECT EXISTING UNDERGROUND UTILITIES TO REMAIN, UNLESS NOTED OTHERWISE DURING CONSTRUCTION ACTIVITIES.
2. RE-STRIPE PAINT MARKINGS REMOVED DURING PROJECT DEMOLITION AND CONSTRUCTION ACTIVITIES, AND IN STAGING AREAS.
3. SEE E-101 FOR CONDUIT INSTALLATION.
4. SEE ED01.00 FOR ELECTRICAL DEMOLITION.

CONSTRUCTION LIMITS NOTE:

PROVIDE TEMPORARY CHAIN LINK FENCE AT CONSTRUCTION LIMITS. COORDINATE WITH OWNER ON PLACEMENT AND EXTENTS.

LIMITS OF CONSTRUCTION ARE FOR PRIMARY UTILITY CONSTRUCTION AND WILL NEED TO BE TEMPORARILY EXPANDED TO PERMIT LIMITED WORK OUTSIDE THE AREA INDICATED (AS IN THE CASE OF ELECTRICAL UTILITY CONNECTIONS).



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MARK A. DAVIS
STATE OF WASHINGTON
51549
REGISTERED PROFESSIONAL ENGINEER

9/2/2021

SOUTH KING FIRE & RESCUE FACILITY IMPROVEMENTS

FIRE STATION 65 4966 SOUTH 298TH STREET, AUBURN, WA 98001

Project Number 2015137

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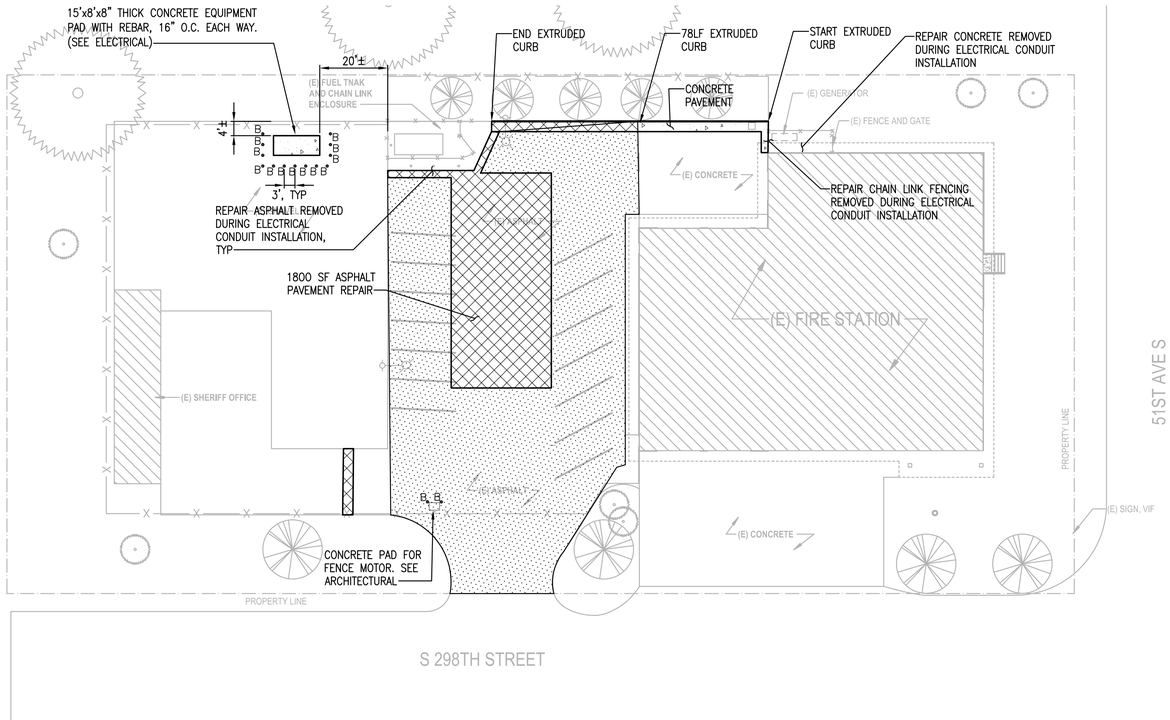
REVISION SCHEDULE	

Temporary Erosion Control and Demolition Plan

SHEET:

C01.00

09/02/2021 8:47am H:\21Cp\17\023 SKFR: Station 65 Fac Imprvmnts, Auburn\Drafting\Design - CAD 2015\1723-65_C1.00EROS.dwg

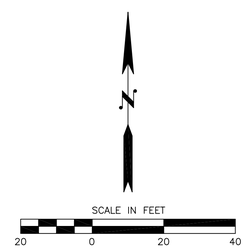


LEGEND:

- CONCRETE PAVEMENT
- ASPHALT PAVEMENT PATCH — 3 — C2.00 | C3.00
- SEAL COAT TREATMENT (SEE NOTE 1)
- EXTRUDED CURB — 4 — C2.00 | C3.00
- B. BOLLARD — 5 — C2.00 | C3.00

NOTES:

1. PROVIDE SEAL COAT TREATMENT PER WSDOT STANDARD SECTION 5-02 BITUMINOUS SURFACE TREATMENT.
2. SEE SHEET A10.01 FOR CHAIN LINK FENCING AND GATE LOCATIONS.
3. PROVIDE ASPHALT PATCH OR GRAVEL SURFACING FOR ELECTRICAL TRENCHING. SEE E101 FOR LOCATIONS.
4. SEE DETAIL 8/C3.00 FOR UTILITY TRENCH SECTION



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9/2/2021

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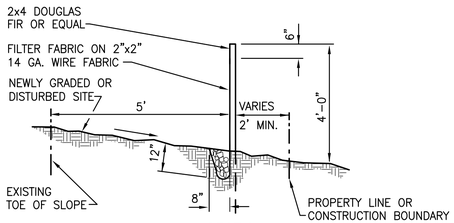
REVISION SCHEDULE	

PAVING PLAN

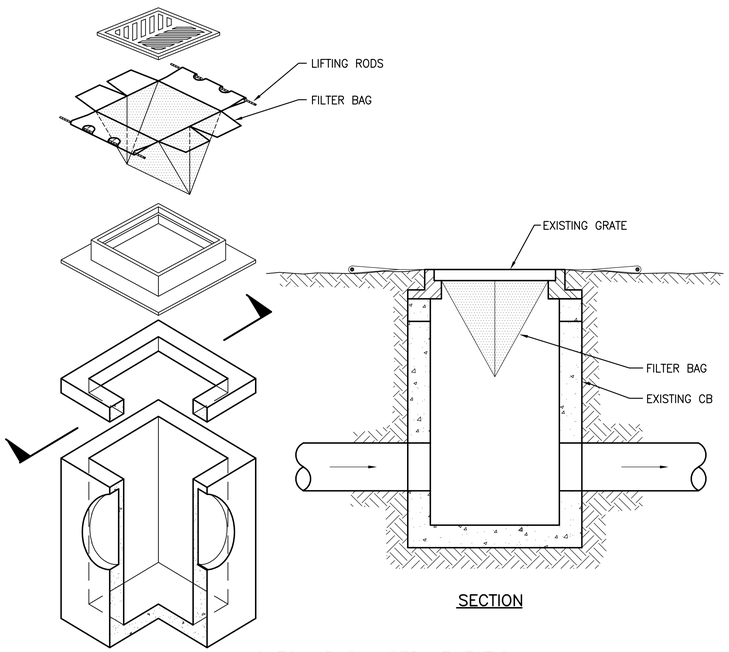
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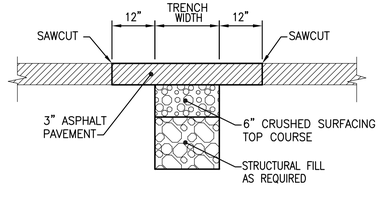
1 DETAIL – FILTER FABRIC FENCE
C1.00 C3.00 NOT TO SCALE



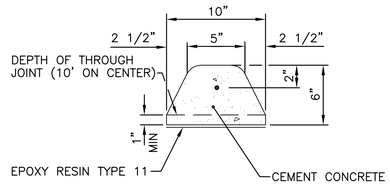
2 CATCH BASIN SEDIMENTATION CONTROL WITH FILTER BAG
C1.00 C3.00 NOT TO SCALE

EROSION AND SEDIMENT CONTROL NOTES

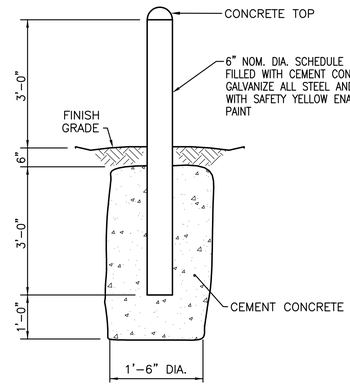
1. APPROVAL OF THIS TEMPORARY EROSION AND SEDIMENTATION CONTROL (TESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THESE TESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE TESC FACILITIES IS THE RESPONSIBILITY OF THE TESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY SURVEY TAPE OR FENCING, IF REQUIRED, PRIOR TO CONSTRUCTION (SWDM APPENDIX D). DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
4. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPTH CLEAN AND TRACK OUT TO ROAD RIGHT OF WAY DOES NOT OCCUR FOR THE DURATION OF THE PROJECT.
5. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZIED.
6. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL COVER MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, PERIMETER PROTECTION, ETC.).
7. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES.
8. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC COVER METHODS (E.G. SEEDING, MULCHING, PLASTIC COVERING, ETC.).
9. ANY AREA NEEDING ESC MEASURES, NOT REQUIRING IMMEDIATE ATTENTION, SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.
10. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A STORM EVENT.
11. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
12. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE PERMANENT FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE ROUGH GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.
13. COVER MEASURES WILL BE APPLIED IN CONFORMANCE WITH APPENDIX D OF THE SURFACE WATER DESIGN MANUAL.
14. PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE DDES INSPECTOR FOR REVIEW.



3 ASPHALT PATCH SECTION
C2.00 C3.00 NOT TO SCALE

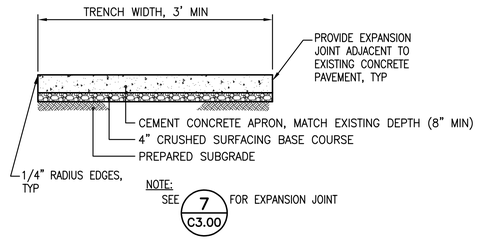


4 SECTION–EXTRUDED CEMENT CONCRETE CURB
C2.00 C3.00 NOT TO SCALE

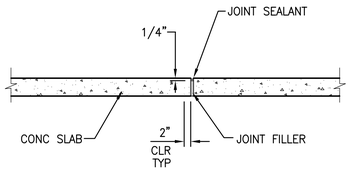


SPACING NOTE:
PROVIDE 3 FT SPACING FROM ADJACENT BOLLARDS AND MECHANICAL EQUIPMENT

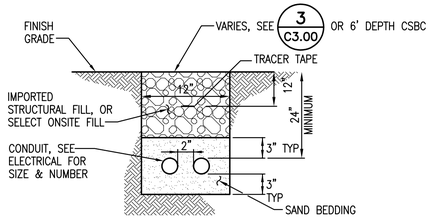
5 DETAIL – STEEL BOLLARD
C2.00 C3.00 NOT TO SCALE



6 TYPICAL CEMENT CONCRETE SECTION
C2.00,E1.01 C3.00 NOT TO SCALE



7 TYPICAL EXPANSION JOINT
C3.00 C3.00 NOT TO SCALE



8 TYPICAL UTILITY TRENCH SECTION
C2.00 C3.00 NOT TO SCALE

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9/2/2021

SOUTH KING FIRE & RESCUE FACILITY IMPROVEMENTS

FIRE STATION 65 4966 SOUTH 298TH STREET, AUBURN, WA 98001

Project Number 2015137

BID SET

ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE	

DETAILS

SHEET:

C03.00

09/02/2021 8:47am H:\21Cp\17\023 SKFR; Station 65 Fac Imprvmnts, Auburn\Drafting\Design - CAD 2015\1723-65_C3.00DTLS.dwg

GENERAL NOTES

1. THIS PROJECT INCLUDES REMOVAL AND DISPOSAL OF HAZARDOUS BUILDING MATERIALS [ASBESTOS-CONTAINING MATERIALS (ACM), AND LEAD-CONTAINING MATERIALS (LCM), MERCURY-CONTAINING LIGHT TUBES/CFL BULBS AND THERMOSTATS, AND PCB-CONTAINING BALLASTS] FROM FIRE STATION 65 LOCATED AT 4966 S 298TH ST, AUBURN, WA.

GENERAL NOTES: ASBESTOS-CONTAINING MATERIALS

1. LOCATIONS OF ACM SHOWN ON THE DRAWINGS ARE SCHEMATIC AND APPROXIMATE. NOTE: A LIMITED HAZARDOUS MATERIALS SURVEY WAS ACCOMPLISHED FOR IN PREPARATION FOR THE WORK, THAT MEETS THE REQUIREMENTS OF WASHINGTON STATE DEPARTMENT OF LABOR AND INDUSTRIES DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (L&I DOSH) "GOOD FAITH INSPECTION" AND PUGET SOUND CLEAN AIR AGENCY (PSCAA) ASBESTOS INSPECTION TO LOCATE AND IDENTIFY ACM EXPECTED TO BE IMPACTED BY THE PROJECT. ALL IMPACTED ACM WILL BE REMOVED WITHIN THE SCOPE OF THIS PROJECT. DEMOLITION FOR ACCESS TO CONCEALED ACM AND/OR ASSUMED ACM IS WITHIN THE SCOPE OF WORK. IF ANY IDENTIFIED ACM, OR SUSPECT MATERIAL NOT ADDRESSED BY THE "GOOD FAITH SURVEY" WILL BE IMPACTED AND IS NOT CALLED-OUT BY OTHER WORK AND IS NOT CALLED-OUT FOR REMOVAL, CONSULT THE DISTRICT'S HAZARDOUS MATERIALS CONSULTANT PRIOR TO DISTURBANCE. ANY SUCH MATERIAL MUST BE TREATED AS ACM UNLESS SAMPLED BY A CERTIFIED AHERA BUILDING INSPECTOR AND DETERMINED TO BE NON-ASBESTOS.
2. USE THE PROJECT HAZARDOUS MATERIALS SUMMARY LISTED ON THIS SHEET FOR BASE BID QUANTITIES. QUANTITIES ARE CONSIDERED ACCURATE WITHIN PLUS OR MINUS (+/-) TEN PERCENT (10%). NO CONTRACT CHANGES WILL BE CONSIDERED FOR VARIANCES IN THESE QUANTITIES OF LESS THAN 10%. CONTRACTOR MUST HAVE HAZARDOUS MATERIALS CONSULTANT'S WRITTEN VERIFICATION OF QUANTITIES PRIOR TO THE REMOVAL OF MATERIALS FOR CONSIDERATION OF COMPENSATION FOR ADDITIONAL QUANTITIES OF MATERIAL IN EXCESS OF +10%.
3. THE CONTRACTOR SHALL FIELD VERIFY AND COORDINATE WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DETAILS AND DIMENSIONS THAT MAY IMPACT THE WORK. THE CONTRACTOR SHALL VERIFY THE CONDITION, LOCATION, AND QUANTITIES OF HAZARDOUS MATERIALS IN THIS WORK PRIOR TO SUBMITTING A BID.
4. REFER TO CONTRACT AND CONTRACTOR'S APPROVED WORK PLAN FOR ASBESTOS REMOVAL AND DISPOSAL PROCEDURES AND REQUIREMENTS.

GENERAL NOTES: LEAD AND ARSENIC-CONTAINING MATERIALS

1. INTERIOR AND EXTERIOR PAINTED/GLAZED SURFACES WERE FOUND TO CONTAIN LEAD (E.G. LEAD-CONTAINING BUILDING MATERIALS (LCM)). LCM MAY ALSO INCLUDE THE FOLLOWING: GLAZING OF CERAMIC BATHROOM FIXTURES, (E.G., SINKS, TOILETS, AND UTILITY SINKS).
2. REFER TO THE HAZARDOUS MATERIALS REMOVAL SPECIFICATIONS FOR IMPACTS TO LCM. REFER TO SPECIFICATIONS FOR LEAD DISTURBANCES, DISPOSAL, AND TESTING REQUIREMENTS.
3. THE CONTRACTOR SHALL ASSUME THAT LEAD PAINT IS PRESENT ON ANY PAINTED BUILDING MATERIALS NOT TESTED. ALL WORK THAT MAY DISTURB LEAD-BASED PAINT (LBP) OR OTHER LCM SHALL BE IN ACCORDANCE WITH L&I REGULATION WAC 296-155-176, OSHA REGULATION 29 CFR 1926.62, AND THE SPECIFICATIONS, INCLUDING DUST CONTROL, EMPLOYEE EXPOSURE ASSESSMENTS AND WASTE CHARACTERIZATION.
4. BRICK MORTAR AND CMU MORTAR WERE FOUND TO CONTAIN ARSENIC. ALL WORK THAT MAY DISTURB ARSENIC-CONTAINING MORTAR OR OTHER ARSENIC BUILDING MATERIALS SHALL BE IN ACCORDANCE WITH L&I REGULATION WAC 296-848, OSHA REGULATION 29 CFR 1926.1118, AND THE SPECIFICATIONS, INCLUDING DUST CONTROL, EMPLOYEE EXPOSURE ASSESSMENTS AND WASTE CHARACTERIZATION.
5. REFER TO ARSENIC REMEDIATION SPECIFICATIONS FOR IMPACTS TO ARSENIC-CONTAINING BRICK MORTAR. REFER TO SPECIFICATIONS FOR ARSENIC DISTURBANCES, DISPOSAL, AND TESTING REQUIREMENTS.

GENERAL NOTES: MERCURY-CONTAINING LIGHT TUBES AND PCB-CONTAINING BALLASTS

1. INSPECT ALL LIGHT BALLASTS THROUGHOUT THE PROJECT AREA, ALL IMPACTED MAGNETIC BALLASTS REGARDLESS OF LABELING AS "NO-PCBS" OR "PCB FREE", WILL BE REMOVED AND DISPOSED OF AS REGULATED WASTE IN ACCORDANCE WITH THE REGULATIONS AND THE CONTRACTOR'S APPROVED WORK PLAN. PARTIAL DISASSEMBLY OF FLUORESCENT FIXTURES AND SELECTIVE DEMOLITION FOR ACCESS ARE INCLUDED IN THE SCOPE OF WORK. REFER TO CONTRACT SPECIFICATIONS/ DRAWINGS, REGULATIONS, AND CONTRACTOR'S APPROVED WORK PLAN FOR PCB-BALLAST REMOVAL AND DISPOSAL PROCEDURES.
2. BALLASTS LABELED "ELECTRONIC" MAY BE DISPOSED AS CONSTRUCTION DEBRIS.
3. ALL FLUORESCENT LIGHT TUBES, COMPACT FLUORESCENT LAMPS (CFLs), AND HIGH INTENSITY DISCHARGE (HID) LAMPS CONTAIN MERCURY AND WILL BE RECYCLED IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS AND WITHOUT BREAKAGE ON SITE. REFER TO THE CONTRACT SPECIFICATIONS AND REGULATIONS AND INCLUDE METHODS IN THE WORK PLAN FOR LIGHT TUBE/CFL BULB, HID LAMP RECYCLING PROCEDURES.
4. A LICENSED ELECTRICIAN IS RESPONSIBLE FOR ELECTRICAL ISOLATION OF ALL IMPACTED LIGHT FIXTURES AND THE ABATEMENT CONTRACTOR SHALL VERIFY PRIOR TO COMMENCING WORK.
5. DESIGN PRACTICE HAS ASSUMED THAT 15% OF THE TOTAL NUMBER OF FLUORESCENT LIGHT FIXTURES TO BE REMOVED MAY CONTAIN PCB-LEAKING BALLASTS. CONTRACTOR MUST INCLUDE THE CLEANING OR REMOVAL AND DISPOSAL OF PCB-CONTAMINATED LIGHT FIXTURES IN THE BASE BID.

SHEET INDEX

HA1.01	HAZMAT PLAN - MAIN FLOOR
HA1.02	HAZMAT PLAN - ROOF

ABBREVIATIONS

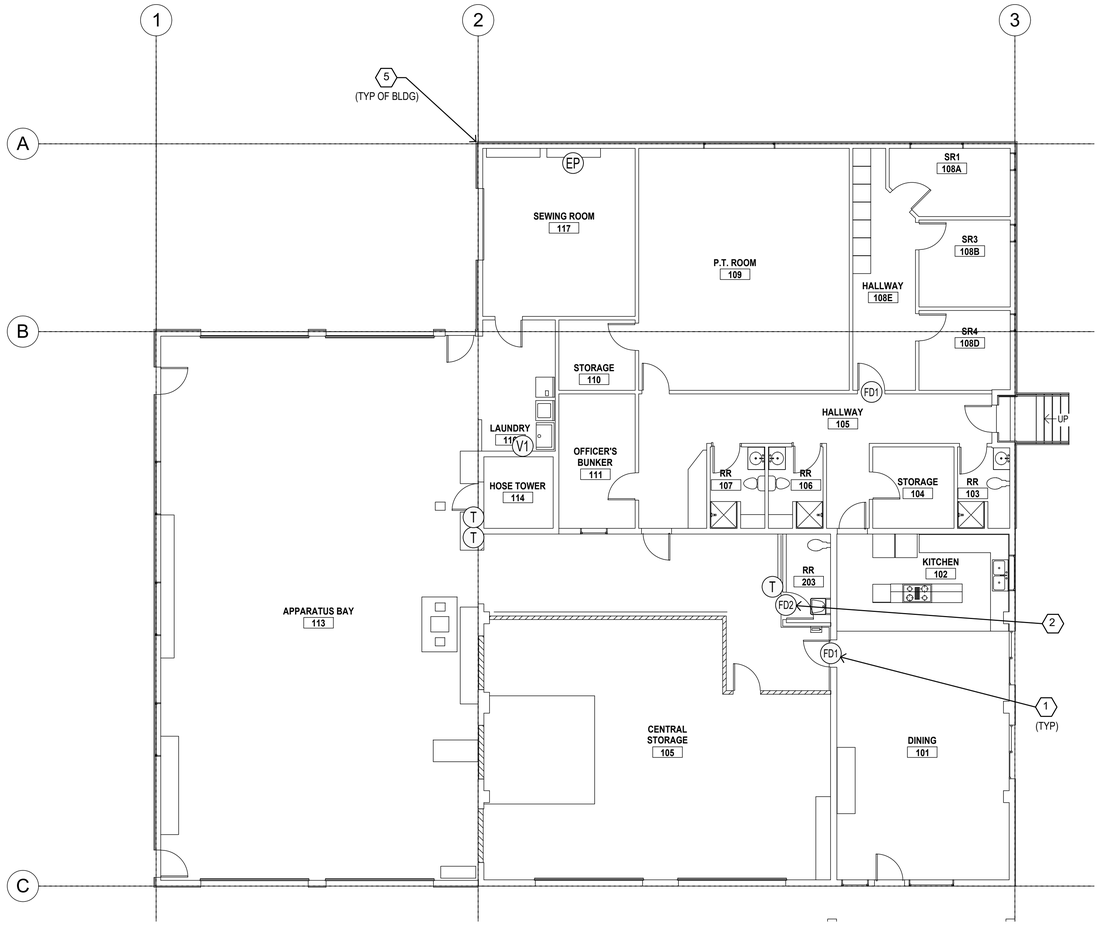
ACM - ASBESTOS-CONTAINING MATERIAL
AHERA - ASBESTOS HAZARD EMERGENCY RESPONSE ACT
BLDG - BUILDING
CFR - CODE OF FEDERAL REGULATIONS
CMU - CONCRETE MASONRY UNIT
EA - EACH
EHSI - EHS-INTERNATIONAL, Inc.
L&I DOSH - WASHINGTON STATE DEPARTMENT OF LABOR AND INDUSTRIES DIVISION OF OCCUPATIONAL SAFETY AND HEALTH
LCM - LEAD-CONTAINING MATERIALS
OSHA - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PSCAA - PUGET SOUND CLEAN AIR AGENCY
SF - SQUARE FEET
TYP - TYPICAL
WAC - WASHINGTON ADMINISTRATIVE CODE

PROJECT HAZARDOUS MATERIALS SUMMARY

QUANTITY/ UNIT	DESCRIPTION
2 EA	WOOD FIRE DOORS WITH ASSUMED ACM CORE
1 EA	METAL FIRE DOORS WITH ASSUMED ACM CORE
3 EA	ASSUMED ACM ELECTRICAL ISOLATOR INSIDE 2'X4' RELAY CABINET
7,231 SF	RED RUBBER ROOFING ON ASSUMED ACM ROOFING ON WOOD DECKING
1 EA	8"X3' VENT WITH ACM SILVER PAINT/SEALANT
4 EA	4'X3' VENT WITH ACM SILVER PAINT/SEALANT ON HOSE TOWER
3 EA	MERCURY-CONTAINING THERMOSTAT
162 EA	MERCURY-CONTAINING FLUORESCENT LIGHT TUBES
2 EA	PCB-CONTAINING LIGHT BALLASTS

(X) HAZMAT SHEET NOTES & LEGEND

(FD1) 1. REMOVE AND DISPOSE OF WOOD FIRE DOORS W/ ASSUMED ACM CORE.
(FD2) 2. REMOVE AND DISPOSE OF METAL FIRE DOORS W/ ASSUMED ACM CORE.
(V1) 3. REMOVE AND DISPOSE OF 8"x3' VENT W/ ACM SEALANT.
(EP) 4. REMOVE AND DISPOSE OF ASSUMED ACM ELECTRICAL ISOLATOR INSIDE 2'X4' RELAY CABINET.
(5) 5. REMOVE AND DISPOSE OF IMPACTED PCB-CONTAINING FLUORESCENT LIGHT BALLASTS AS HAZARDOUS WASTE AND REMOVE AND RECYCLE IMPACTED MERCURY-CONTAINING FLUORESCENT LIGHT TUBES WITHOUT BREAKAGE ON SITE. COORDINATE WITH ELECTRICAL DEMOLITION DRAWINGS.
(T) 6. REMOVE AND RECYCLE MERCURY-CONTAINING THERMOSTAT.



N 1 HAZMAT PLAN - MAIN FLOOR
1/8" = 1'-0"

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AHERA PROJECT DESIGNER
NATHAN TRACY
CERT. NO. 101121-01
08/13/2021

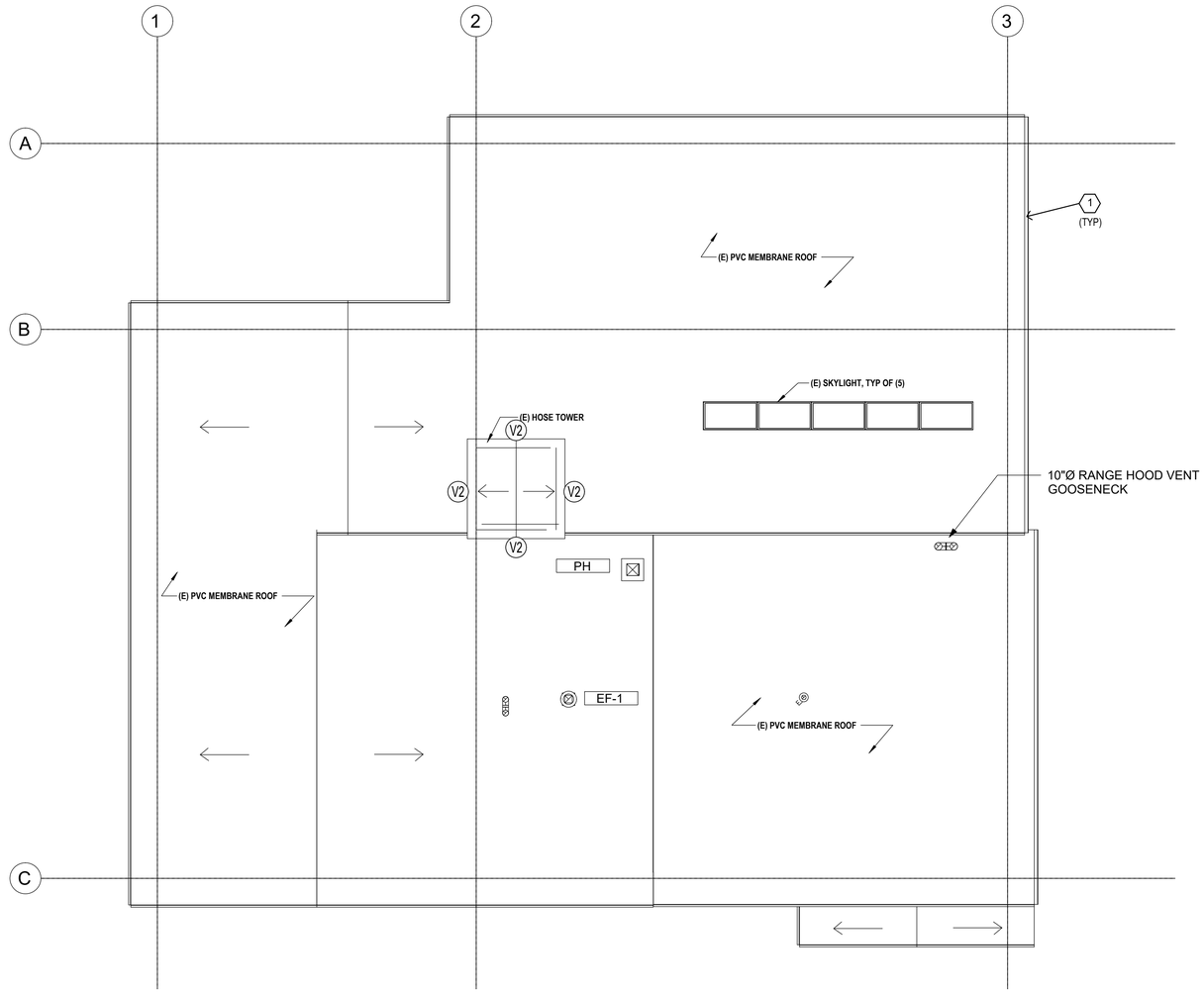
SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
FIRE STATION 65 4966 SOUTH 298th STREET,
AUBURN, WA 98001

PROJECT # 2015137
BID SET
ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE

HAZMAT PLAN - MAIN FLOOR

SHEET:
HA1.01



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

GENERAL NOTES

1. FOR HAZMAT GENERAL NOTES, SEE SHEET HA1.01.

(X) HAZMAT SHEET NOTES & LEGEND

(1) 1. REMOVE AND DISPOSE OF RED RUBBER ROOFING ON OLD ASSUMED ACM ROOFING ON WOOD DECKING.

(V2) 2. REMOVE AND DISPOSE OF 4'X3' VENT WITH ACM SILVER PAINT/SEALANT ON TOP OF HOSE TOWER.

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ehsi
A Subsidiary of SoundEarth Strategies
1011 SW Klickitat Way, Suite 104
Seattle, Washington 98134
Ph: 206.381.1128
Fax: 206.254.4279

CAMERA PROJECT DESIGNER
NATHAN TRACY
CERT. NO. 201121-01
08/13/2021

SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
FIRE STATION 65 4966 SOUTH 298th STREET,
AUBURN, WA 98001

PROJECT # 2015137

BID SET

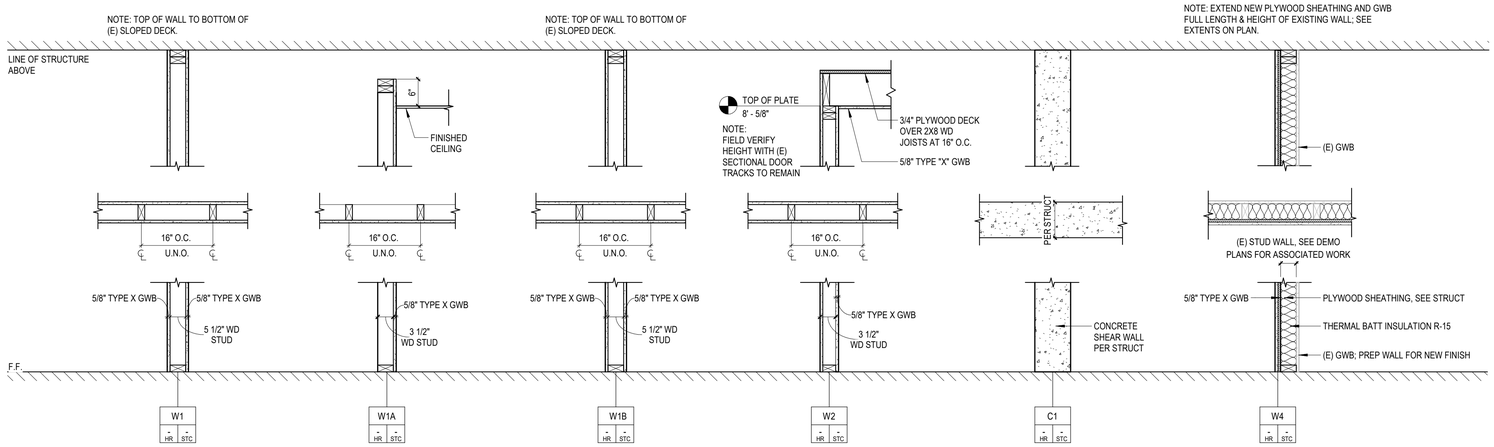
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REVISION SCHEDULE

HAZMAT PLAN - ROOF

SHEET:

HA1.02



2 INTERIOR WALL ASSEMBLIES
3/4" = 1'-0"

CODE COMPLIANCE

APPLICABLE CODES:

2015 INTERNATIONAL BUILDING CODE (IBC)
WASHINGTON STATE AMENDMENTS, WAC 51-50 AND RCW 19.27 & 70.92
ACCESSIBILITY CODE ICC/ANSI A117.1-2009
2015 INTERNATIONAL MECHANICAL CODE (IMC)
WASHINGTON STATE AMENDMENTS, WAC 51-52 AND RCW 19.27
2015 INTERNATIONAL FIRE CODE (IFC)
WASHINGTON STATE AMENDMENTS, WAC 51-54A AND RCW 19.27
2015 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
WASHINGTON STATE AMENDMENTS, WAC 51-11R & 51-11C AND RCW 19.27
2015 WASHINGTON STATE ENERGY CODE (WSEC)
2014 NATIONAL ELECTRICAL CODE
WASHINGTON STATE AMENDMENTS, WAC 296-43, 296-45 & 296-46B AND RCW 19.28
2015 UNIFORM PLUMBING CODE (UPC)
WASHINGTON STATE AMENDMENTS, WAC 51-56 AND RCW 19.27

CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION

EXISTING USE: FIRE SERVICE STATION (NO CHANGE)

SEPARATED MIXED USE CLASSIFICATION
EXISTING CLASSIFICATION: 'S-2' / 'R-3'
PROPOSED CLASSIFICATION: 'S-2' / 'R-3' (NO CHANGE)

CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS

AREA OF BUILDING: 7,231 SF (NO CHANGE)

STORIES: 1 STORY (NO CHANGE)

NON-SEPERATED OCCUPANCIES (IBC 508.1 / 508.3)

CHAPTER 6 - TYPES OF CONSTRUCTION

CONSTRUCTION CLASSIFICATION: TYPE V-B (NO CHANGE)

CHAPTER 9 - FIRE PROTECTION SYSTEMS

THE EXISTING BUILDING IS FULLY SPRINKLED. ALTERATIONS TO THE EXISTING SYSTEM SHALL BE SUBMITTED UNDER A SEPARATE COVER.

CHAPTER 10 - MEANS OF EGRESS

OCCUPANT LOAD = 40 OCCUPANTS

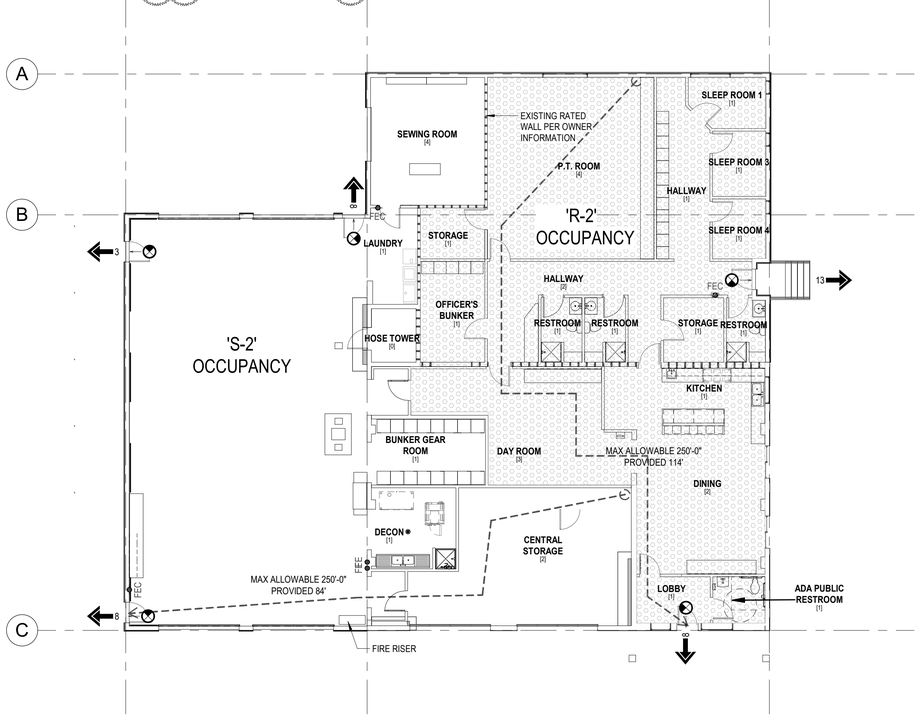
MAXIMUM EXIT ACCESS TRAVEL DISTANCE = 250 FT (IBC T1017.2)

F&LS - OCCUPANT LOAD CHART

ROOM INFORMATION			OCCUPANCY CLASSIFICATION	IBC 2015 TABLE 1004.1.2 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT			OCCUPANT LOAD
NUMBER	NAME	AREA		FUNCTION OF SPACE	LOAD FACTOR	GROSS/NET	
LEVEL 1							
101	DINING	383 SF	RESIDENTIAL		200 SF		2
102	KITCHEN	199 SF	RESIDENTIAL		200 SF		1
120	CENTRAL STORAGE	591 SF	ACCESSORY STORAGE		300 SF		2
109	P.T. ROOM	672 SF	RESIDENTIAL		200 SF		4
114	SEWING ROOM	325 SF	INDUSTRIAL AREA		100 SF		4
110	STORAGE	73 SF	ACCESSORY STORAGE		300 SF		1
111	OFFICER'S BUNKER	145 SF	SLEEPING UNIT		200 SF		1
112	HOSE TOWER	53 SF			0 SF		0
105	HALLWAY	322 SF	RESIDENTIAL		200 SF		2
107	RESTROOM	58 SF			0 SF		1
106	RESTROOM	58 SF			0 SF		1
104	STORAGE	86 SF	ACCESSORY STORAGE		300 SF		1
103	RESTROOM	54 SF			0 SF		1
108A	SLEEP ROOM 1	82 SF	RESIDENTIAL		200 SF		1
108B	SLEEP ROOM 3	77 SF	RESIDENTIAL		200 SF		1
108D	SLEEP ROOM 4	71 SF	RESIDENTIAL		200 SF		1
108E	HALLWAY	193 SF	RESIDENTIAL		200 SF		1
113	LAUNDRY	105 SF	ACCESSORY STORAGE		300 SF		1
116	DAY ROOM	410 SF	RESIDENTIAL		200 SF		3
119	DECON	152 SF	ACCESSORY STORAGE		300 SF		1
118	BUNKER GEAR ROOM	169 SF	ACCESSORY STORAGE		300 SF		1
115	APPARATUS BAY	2164 SF	ACCESSORY STORAGE		300 SF		8
121	ADA PUBLIC RESTROOM	54 SF	RESIDENTIAL		200 SF		1
122	LOBBY	76 SF	RESIDENTIAL		200 SF		1
		6573 SF					41
Grand total		6573 SF					41

(E) RATED WALL
EXIT SIGN
FEC — EXISTING FIRE EXTINGUISHER CABINET
FE — EXISTING FIRE EXTINGUISHER, WALL MOUNTED
[123] — OCCUPANT LOAD
PATH OF EGRESS TRAVEL
123 — EXIT DISCHARGE OCCUPANT LOAD

F&LS PLAN LEGEND



N
1 LEVEL 1 - F&LS AREA PLAN
3/32" = 1'-0"

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STATE OF WASHINGTON

SOUTH KING FIRE & RESCUE FACILITY IMPROVEMENTS
FIRE STATION 65 4966 SOUTH 298th STREET, AUBURN, WA 98001

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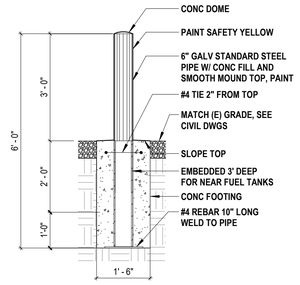
REVISION SCHEDULE

FIRE & LIFE SAFETY PLAN AND ASSEMBLY SCHEDULES

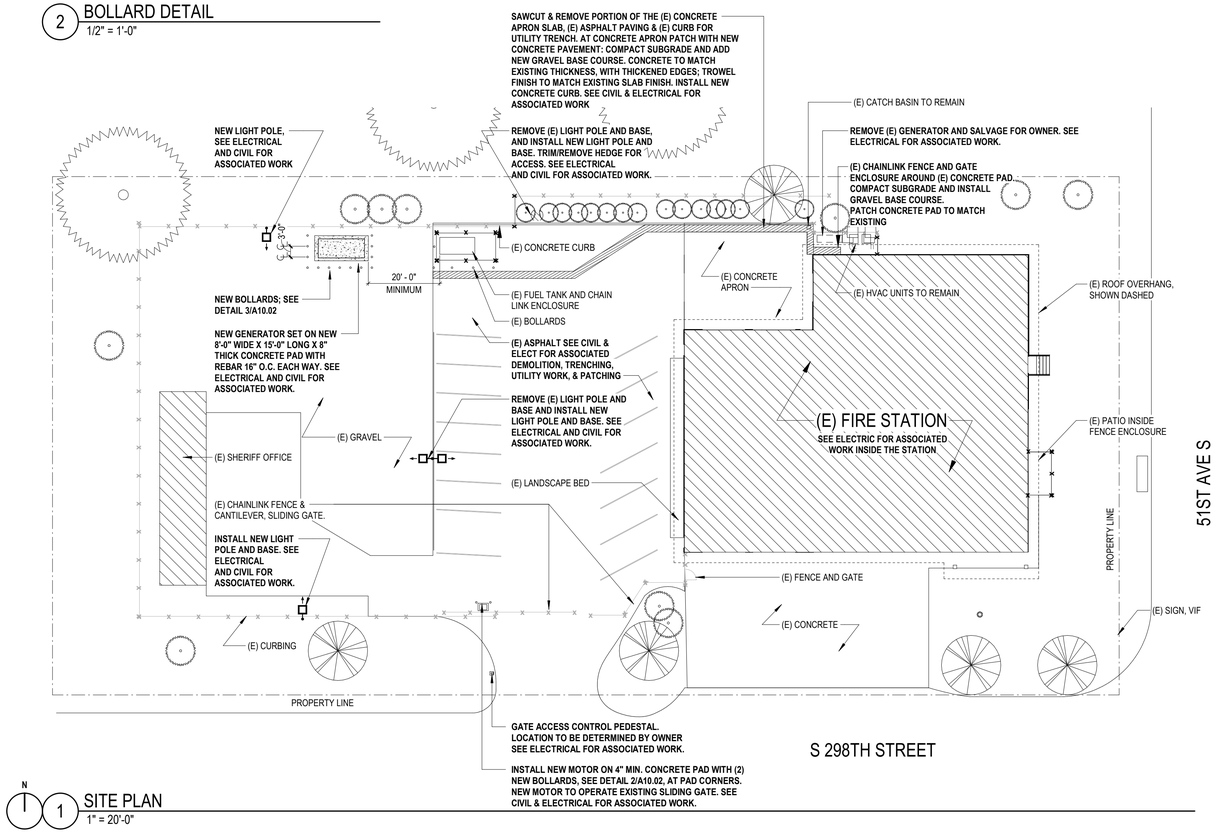
SHEET:
A01.01

GENERAL NOTES - SITE PLAN

1. SEE CIVIL, MECHANICAL, AND ELECTRICAL FOR ASSOCIATED SITE WORK.



2 BOLLARD DETAIL
1/2" = 1'-0"



N
1 SITE PLAN
1" = 20'-0"

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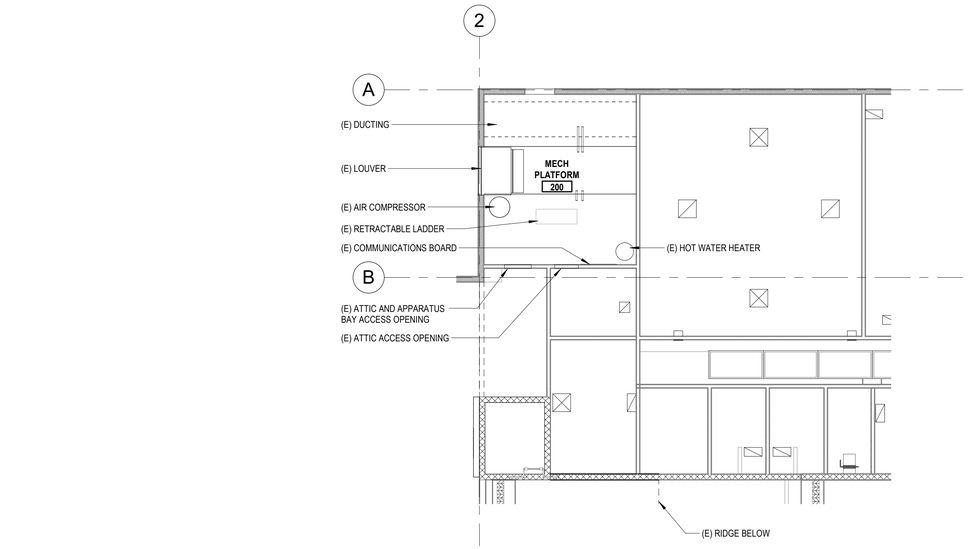
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ARCHITECTURAL SITE PLAN

SHEET:

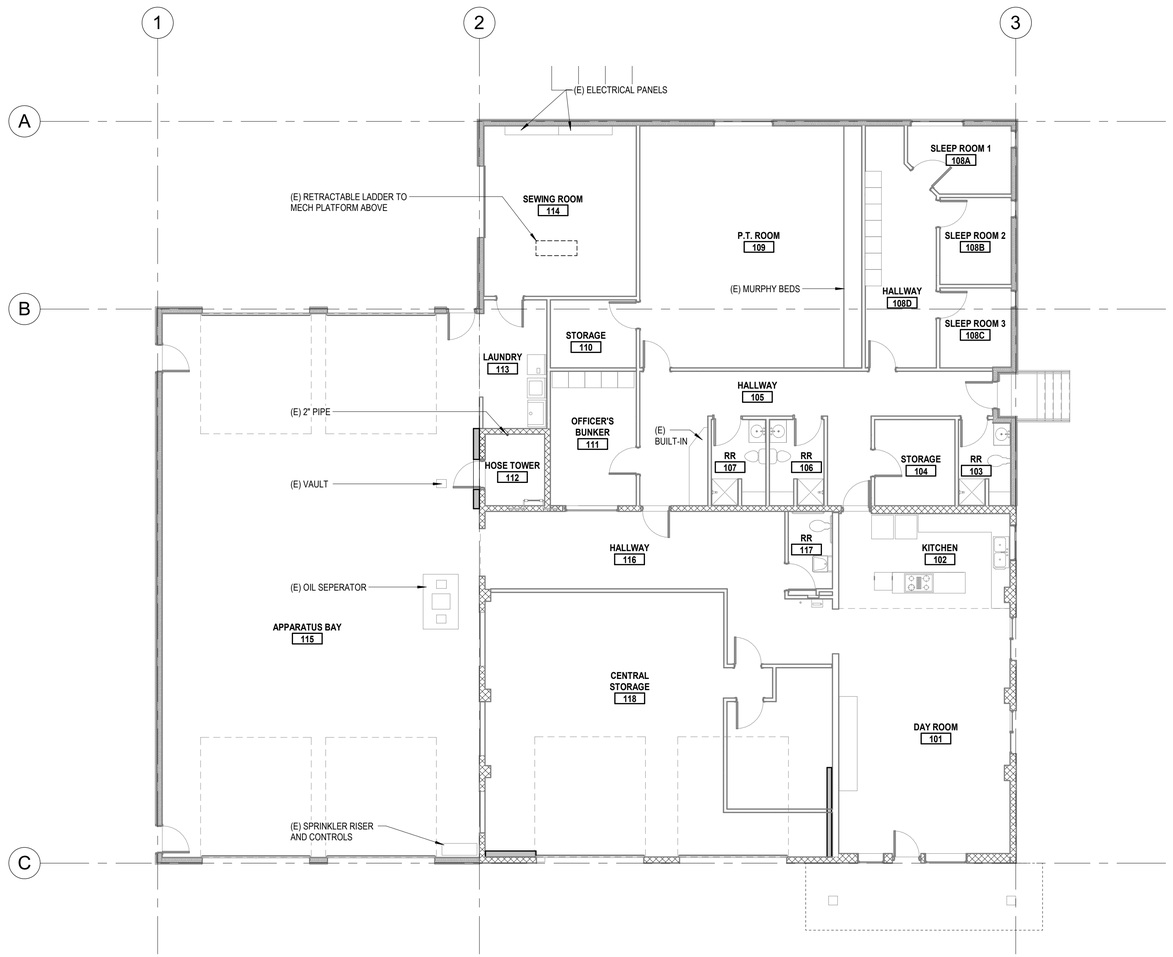
A10.01



N

2 EXISTING FIRE STATION 65 ATTIC PLAN

1/8" = 1'-0"



N

1 LEVEL 1 - EXISTING FIRE STATION 65 FLOOR PLAN

1/8" = 1'-0"

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EXISTING FIRE STATION 65 FLOOR PLANS

SHEET:

A20.01

KEY NOTES - DEMO PLAN

#	NOTE DESCRIPTION
D1	DEMO (E) WALL
D2	DEMO (E) DOOR AND FRAME
D3	DEMO (E) SINK AND TOILET; SEE PLUMBING
D4	DEMO (E) WINDOW AND TRIM
D6	DEMO (E) CASEWORK
D8	DEMO (E) GYPSUM WALLBOARD TO TOP OF WAINSCOT AND (E) WAINSCOT TO INSTALL NEW HOLD DOWNS; SEE STRUCTURAL FOR HOLD DOWN LOCATIONS
D9	DEMO (E) WOOD TRIM AT OPENING
D10	DEMO (E) WAINSCOT
D11	DEMO (E) WOOD INFILL WALL AND WOOD TRIM
D12	DEMO (E) CONCRETE SLAB. SEE PLUMBING PLANS FOR ASSOCIATED WORK.
D13	DEMO PORTION OF (E) GYPSUM WALLBOARD TO APPROX. 4'-0" TO INSTALL NEW HOLD DOWN PER STRUCTURAL
D14	REMOVE (E) GWB DOWN TO (E) STUDS FOR NEW PLYWOOD SHEATHING; SEE STRUCTURAL
D15	REMOVE (E) WALL BASE FROM CORNER TO CORNER FOR INSTALLATION OF HOLD DOWNS
D16	REMOVE (E) SECTIONAL DOORS, TRACKS, SPRINGS, MOTOR AND ASSOCIATED EQUIPMENT
D17	REMOVE (E) GWB AND (E) INSULATION AT EXTERIOR WALLS
D18	REMOVE (E) FLOORING AND WALL BASE
D19	REMOVE (E) FLOORING, WALL PROTECTION AND WALL BASE

GENERAL NOTES - DEMO PLAN

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. NO DEMOLITION WORK SHALL COMMENCE WITHOUT FIELD VERIFICATION BY THE CONTRACTOR

2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND REMOVE ALL MECHANICAL, ELECTRICAL AND MISCELLANEOUS EQUIPMENT AS REQUIRED TO COMPLETE THE WORK. REFER TO MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR DEMOLITION INFORMATION

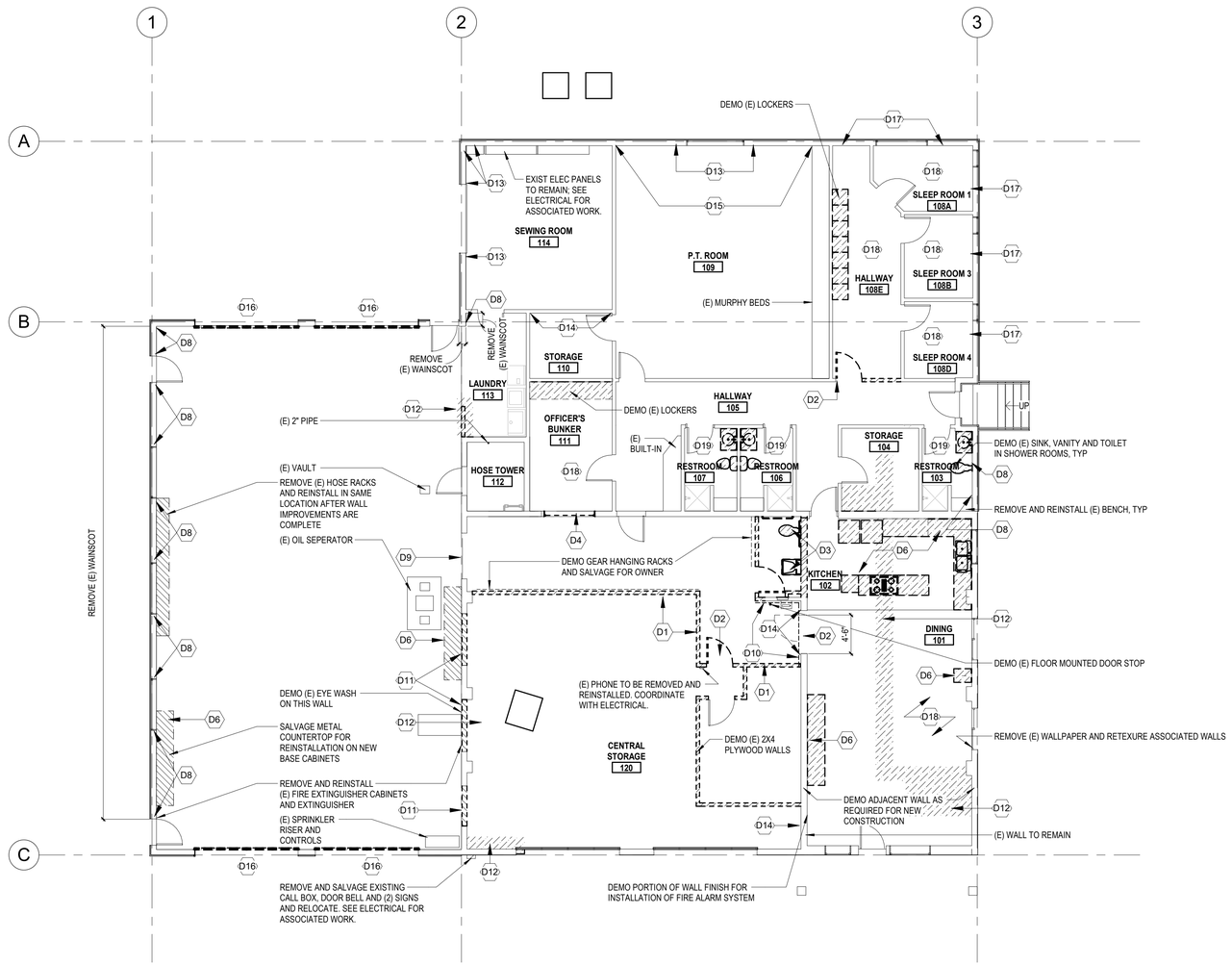
3. THE CONTRACTOR SHALL FIELD LOCATE UNDERSLAB UTILITIES PRIOR TO SAW CUTTING AND/OR JACK HAMMERING AS REQUIRED TO CAREFULLY REMOVE EXISTING SLAB PER DEMO PLAN KEY NOTE D12

4. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY STRUCTURAL BRACING AS REQUIRED DURING DEMOLITION AND CONSTRUCTION

5. ANY PORTION OF THE PROJECT TO REMAIN WHICH IS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITY, SHALL BE REPAIRED OR REPLACED TO MATCH THE EXISTING CONDITION

6. THE CONTRACTOR SHALL COORDINATE AND ARRANGE FOR THE DISCONNECTION OF ALL UTILITIES AND EQUIPMENT WITH THE OWNER AND UTILITY COMPANIES. THE CONTRACTOR SHALL CAP OFF ALL UNUSED UTILITIES

7. THE DEMOLITION OF MATERIALS SHALL BE HANDLED IN ACCORDANCE WITH THE HAZMAT DRAWINGS.



N

1 LEVEL 1 - DEMO FLOOR PLAN

1/8" = 1'-0"

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DEMO FLOOR PLAN

SHEET:

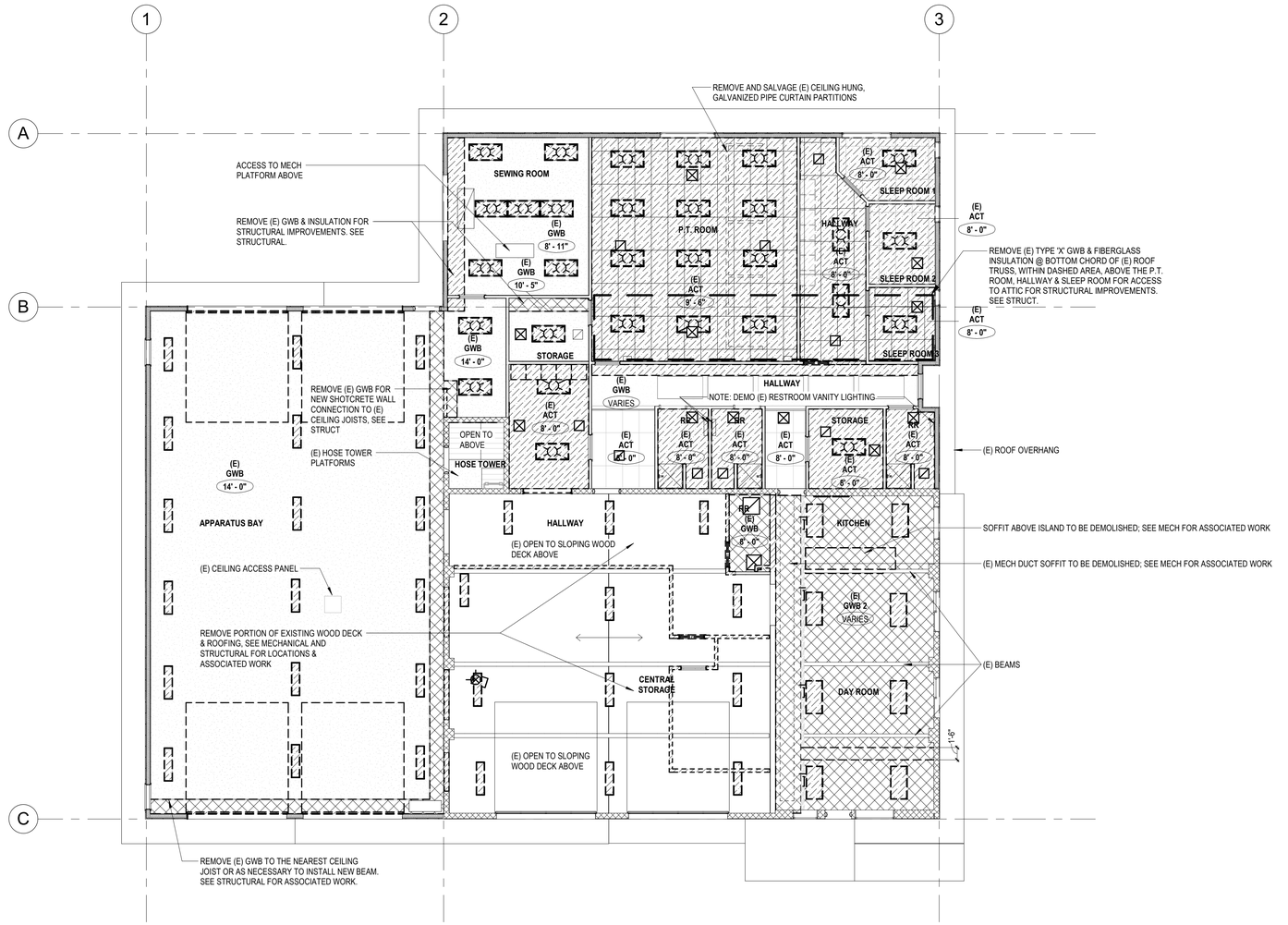
A21.01

GENERAL DEMO NOTE

1. WHERE INSTALLATION OF NEW STRUCTURAL IMPROVEMENTS OCCUR IN THE ATTIC, REMOVE EXISTING TYPE 'X' GWB & INSULATION. SEE LOCATION ON DRAWINGS.

LEGEND DEMO RCP

- EXISTING GWB CEILING TO REMAIN
- EXISTING SUSPENDED ACOUSTICAL TILE CEILING TO REMAIN
- EXISTING ROOF DECK TO REMAIN
- EXISTING LIGHTING FIXTURES TO REMAIN
- DEMO EXISTING GWB CEILING/SOFFIT
- DEMO EXISTING CEILING TILES, GRID, AND LIGHTING.
- EXISTING WALL OPENING TO BE FILLED AND PATCHED, SEE ARCHITECTURAL DEMOLITION PLAN FOR INFORMATION
- NEW OPENING IN EXISTING WALL FOR NEW MECHANICAL DUCT, SEE ARCHITECTURAL DEMOLITION PLAN FOR INFORMATION



N

1 LEVEL 1 - REFLECTED CEILING DEMO PLAN

1/8" = 1'-0"

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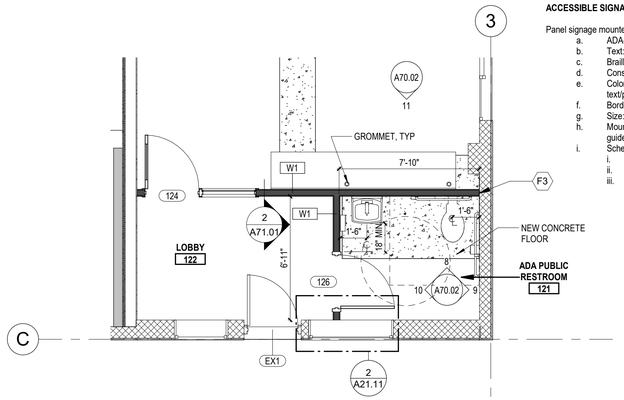
REVISION SCHEDULE

1	ADDENDUM #1	02/07/2020

DEMO CEILING PLAN

SHEET:

A21.02

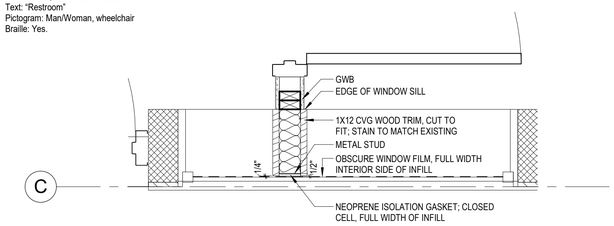


N 5 LOBBY ADA RESTROOM
1/4" = 1'-0"

ACCESSIBLE SIGNAGE NOTE:

Panel signage mounted in Lobby 122 for ADA Public Restroom 121:

a. ADA-complying panel SIGNAGE
b. Text: 1 inch high "optima" semi-bold
c. Braille: Grade 2
d. Construction: Acrylic, 1/8 inch thick
e. Color: As Selected by Architect from Manufacturer's standard line of colors. Border and text/pictograms to contrast with background
f. Border with radiused corners
g. Size: 6" x 6"
h. Mounting: 1/16-inch vinyl foam tape on wall surface adjacent door. Comply with ADA mounting guidelines.
i. Schedule: Room 121, ADA Public Restroom
   i. Text: "Restroom"
   ii. Pictogram: Man/Woman, wheelchair
   iii. Braille: Yes.



N 2 LOBBY ADA RESTROOM - INFILL WALL
1" = 1'-0"

LEGEND FLOOR PLAN

EXISTING CONSTRUCTION TO REMAIN

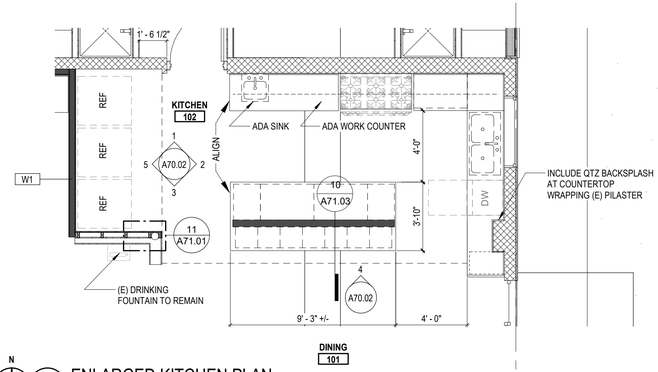
NEW CONSTRUCTION

GENERAL NOTES - FLOOR PLAN

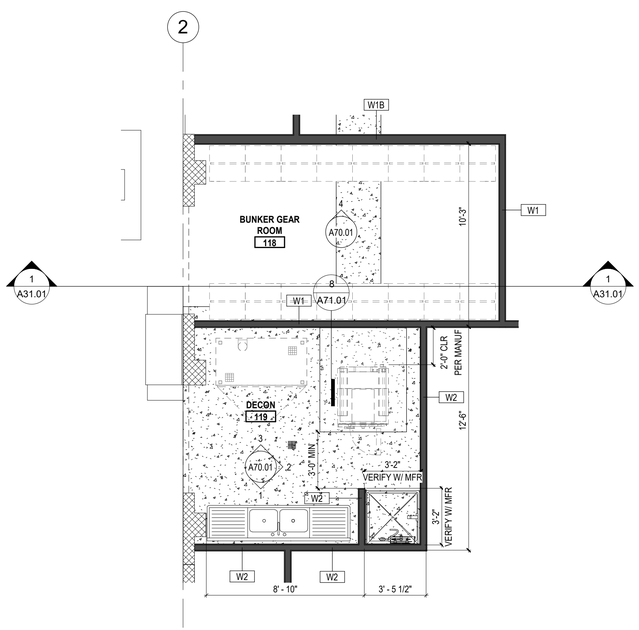
1. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE
2. FOR WALL ASSEMBLIES, SEE SHEET A01.01
3. FOR DOOR SCHEDULE AND DETAILS, SEE SHEET A60.01
4. ALL FINISHED DOOR OPENING ARE LOCATED 6" FROM WALL UNLESS NOTED OTHERWISE
5. FOR FINISH SCHEDULE AND FINISH LEGEND, SEE SHEET A70.01
6. DIMENSIONS INDICATED AS "MIN" OR "CLEAR" ARE FROM NEAREST FINISH SURFACE INCLUDING TRIM
7. PATCH ALL PENETRATIONS RELATED TO THE NEW SPRINKLER SYSTEM. FINISH TO MATCH ADJACENT CONSTRUCTION. SEE SPRINKLER SUBMITTAL FOR ASSOCIATED WORK
8. PROVIDE CONCEALED 2X WOOD BLOCKING FOR SURFACE-MOUNTED COMPONENTS ON WOOD-FRAMED WALLS

KEY NOTES - FLOOR PLAN

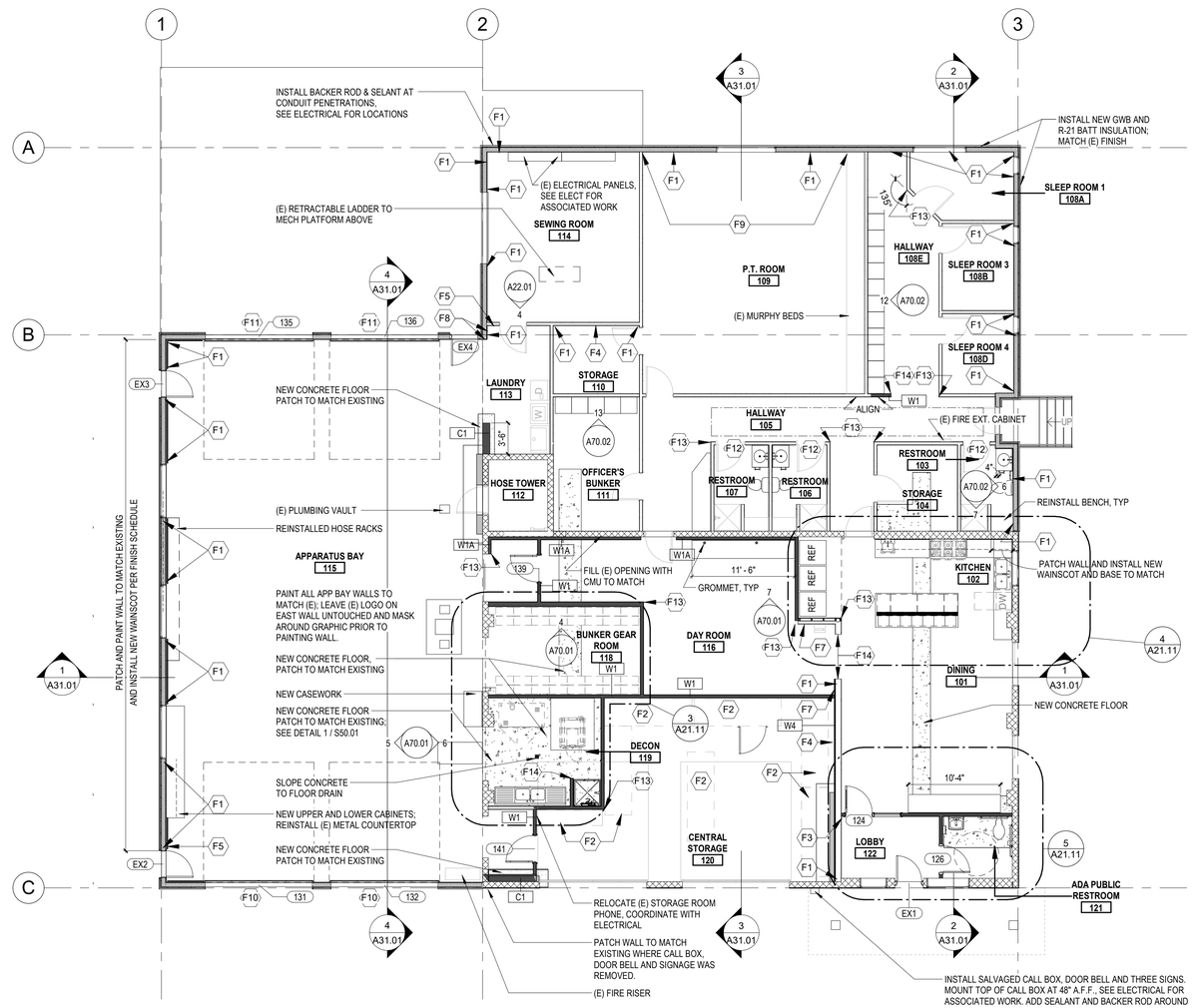
#	NOTE DESCRIPTION
F1	INSTALL HOLD DOWNS AND TYPE X GWB TO MATCH EXISTING THICKNESS. SEE STRUCTURAL FOR ASSOCIATED WORK, PATCH WALL TO MATCH EXISTING.
F2	SHELVING BY OWNER
F3	INSTALL NEW WALL AND PATCH TO MATCH EXISTING WHERE NEW WALL CONNECTS WITH (E) WALL.
F4	INSTALL 5/8" TYPE X GWB OVER PLYWOOD SHEATHING. SEE STRUCTURAL FOR ASSOCIATED WORK. MATCH EXISTING FINISH.
F5	REINSTALL (E) FIRE EXTINGUISHER CABINET
F7	PATCH AND PAINT WALLS TO MATCH EXISTING WHERE WAINSCOT IS REMOVED
F8	INSTALL NEW WAINSCOT TO MATCH EXISTING
F9	INSTALL NEW WALL BASE FROM CORNER TO CORNER TO MATCH EXISTING
F10	INSTALL NEW SECTIONAL DOORS (RED)
F11	INSTALL NEW SECTIONAL DOORS (WHITE)
F12	INSTALL NEW FLOORING, WALL PROTECTION AND BASE
F13	CORNER GUARD
F14	PATCH WALL TO MATCH AND INSTALL WALL END GUARD



N 4 ENLARGED KITCHEN PLAN
1/4" = 1'-0"



N 3 ENLARGED DECON AND BUNKER GEAR PLAN
1/4" = 1'-0"



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

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FLOOR PLAN

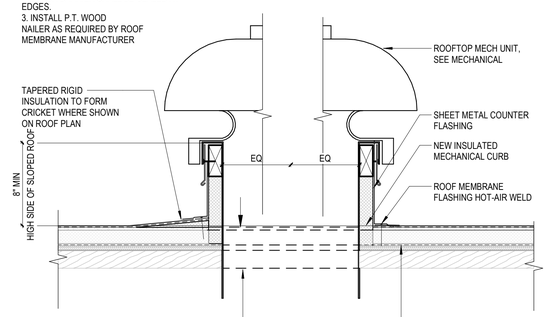
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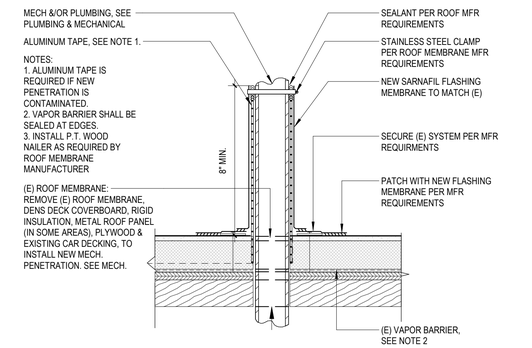
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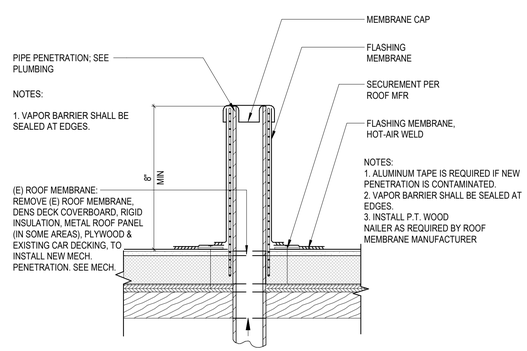
NOTES:
1. ALUMINUM TAPE IS REQUIRED IF NEW PENETRATION IS CONTAMINATED.
2. VAPOR BARRIER SHALL BE SEALED AT EDGES.
3. INSTALL P.T. WOOD NAILER AS REQUIRED BY ROOF MEMBRANE MANUFACTURER



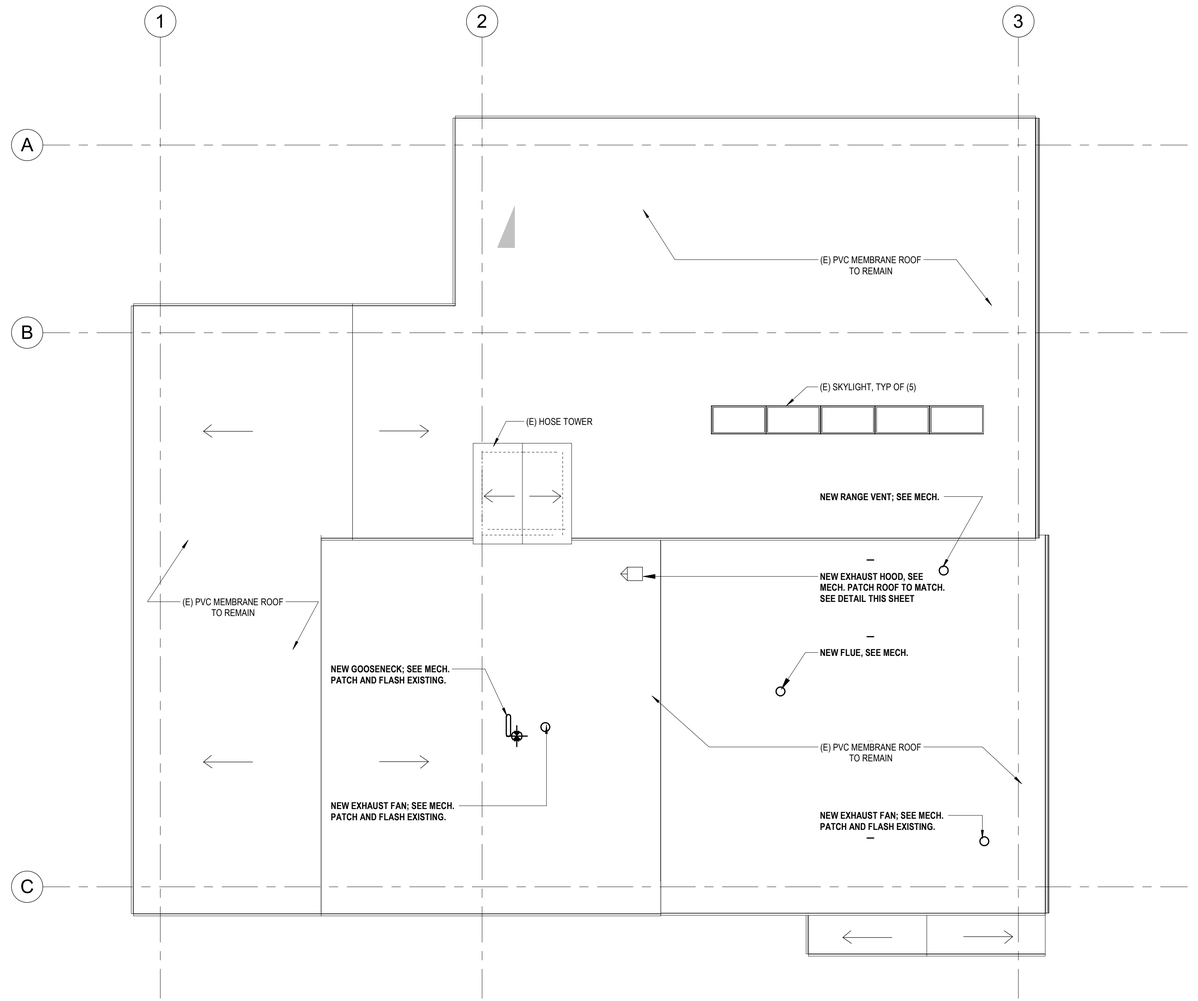
4 MECHANICAL CURB
1 1/2" = 1'-0"



3 NEW PLUMBING/HVAC PENETRATION FLASHING
3" = 1'-0"



2 VENT STACK FLASHING
3" = 1'-0"



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

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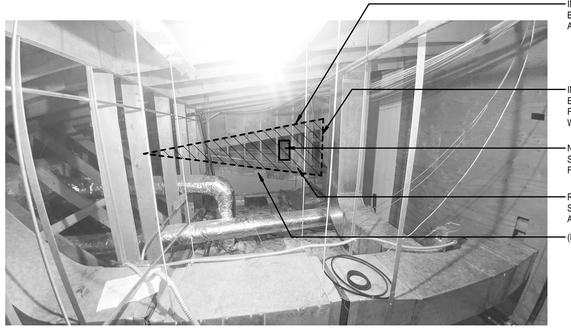
ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE

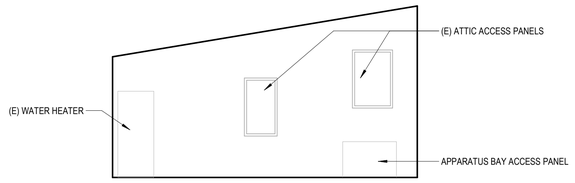
ROOF PLAN

SHEET:

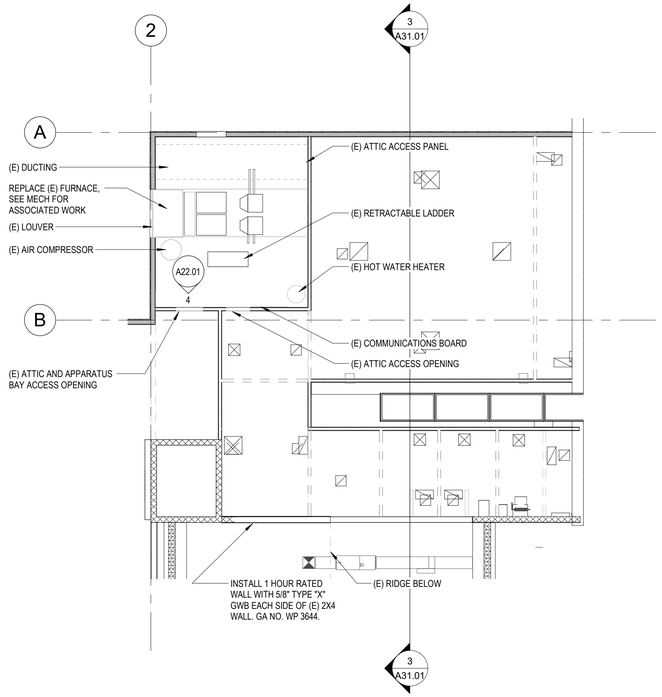
A21.12



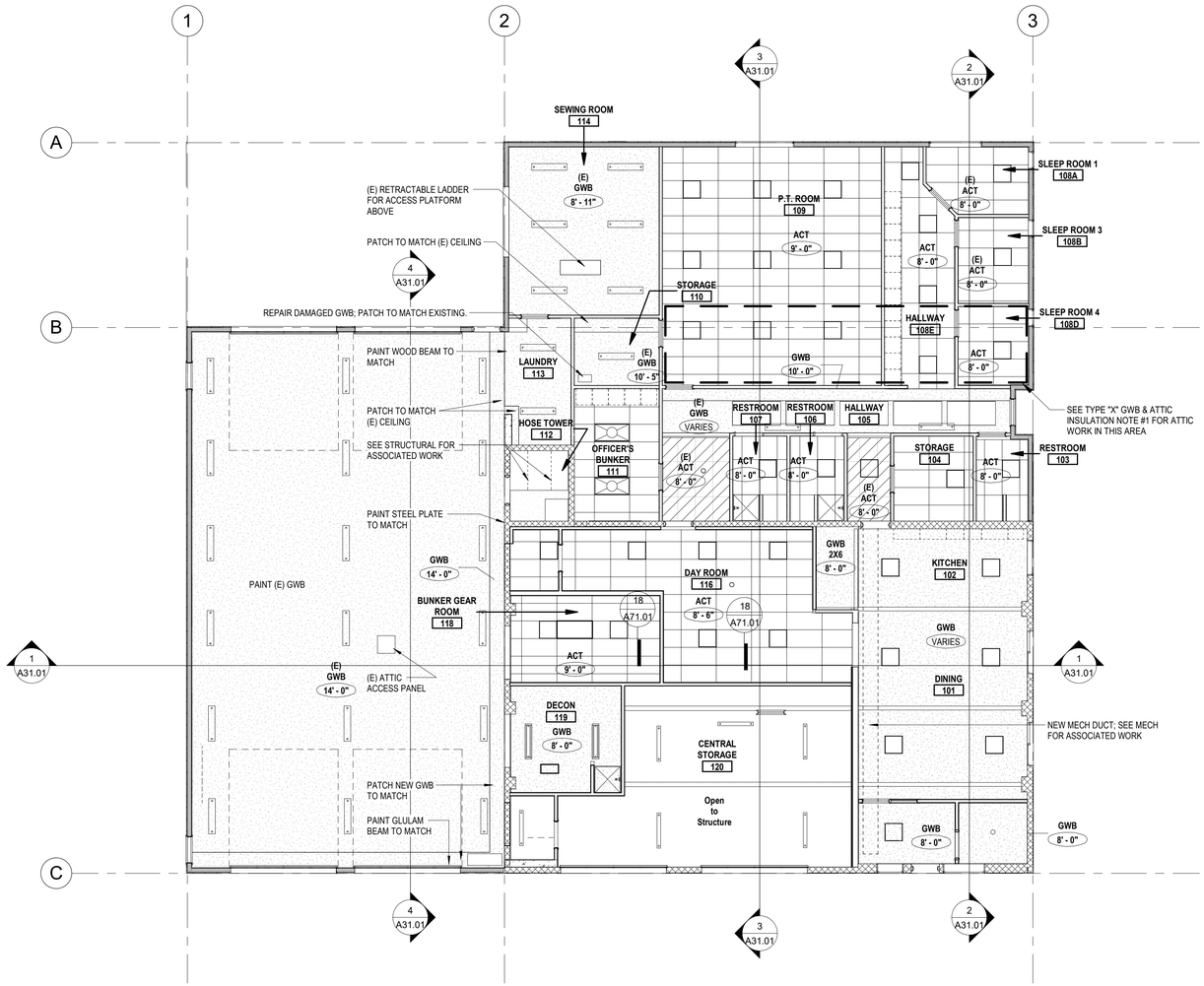
ATTIC - FIRE RATED WALL



4 (E) ATTIC ACCESS PANELS - PLATFORM
1/4" = 1'-0"



N 2 ATTIC PLAN
1/8" = 1'-0"



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

RCP LEGEND

- EXISTING GWB CEILING TO REMAIN
- NEW SUSPENDED ACOUSTICAL TILE CEILING
- NEW GWB CEILING
- REPLACE ACT TILE, (E) GRID TO REMAIN
- ELECTRICAL INFRA RED HEATER
- RADIANT CEILING PANEL
- EXHAUST
- RETURN GRILLE
- SUPPLY GRILLE
- SURFACE OR RECESSED DOWNLIGHT
- WALL SCONCE LIGHT FIXTURE
- RECESSED TROFFER
- RECESSED TROFFER
- SURFACE OR PENDANT MOUNT LIGHT

GENERAL NOTES - RCP

1. ARCHITECTURAL RCP PROVIDED FOR COORDINATION PURPOSES ONLY. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR DETAILED SCOPE OF SYSTEMS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

2. CENTER ALL CEILING FIXTURES IN CEILING TILE, UNLESS NOTED OTHERWISE.

3. REFER TO STRUCTURAL SHEETS FOR SEISMIC REQUIREMENTS

4. SEISMIC BRACE ALL NEW CEILING HUNG EQUIPMENT, SOFFITS AND ACOUSTICAL CEILINGS.

5. REFER TO FINISH PLAN & FINISH SCHEDULE FOR MANUFACTURER, STYLE, COLOR, ETC.

6. NEW SUSPENDED CEILING SHALL BE PER CODE AND HAVE SEISMIC RESTRAINTS.

TYPE 'X' GWB & ATTIC INSULATION

1. INSTALL R-38 BATT INSULATION & 5/8" TYPE 'X' INSULATION, FIRE TAPE, WHERE REMOVED IN THE ATTIC AREA, FOR IMPROVEMENTS, ABOVE THE P.T. ROOM, HALLWAY & SLEEP ROOM.

2. INSTALL R-38 BATT INSULATION, IN ATTIC, WHERE REMOVED FOR ASSOCIATED IMPROVEMENTS

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4794 REGISTERED ARCHITECT
DAVID A. FERGUS
STATE OF WASHINGTON

SOUTH KING FIRE & RESCUE FACILITY IMPROVEMENTS

FIRE STATION 65 4966 SOUTH 298th STREET,
AUBURN, WA 98001

PROJECT # 2015137.01

BID SET

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REVISION SCHEDULE

1	ADDENDUM #1	02/07/2020

REFLECTED CEILING PLAN

SHEET:

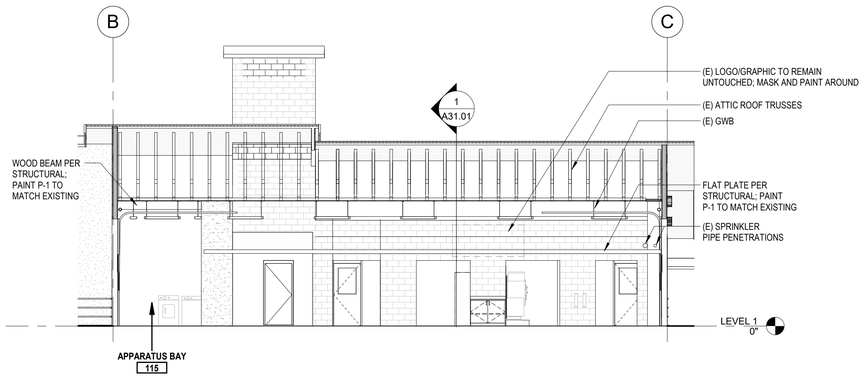
A22.01

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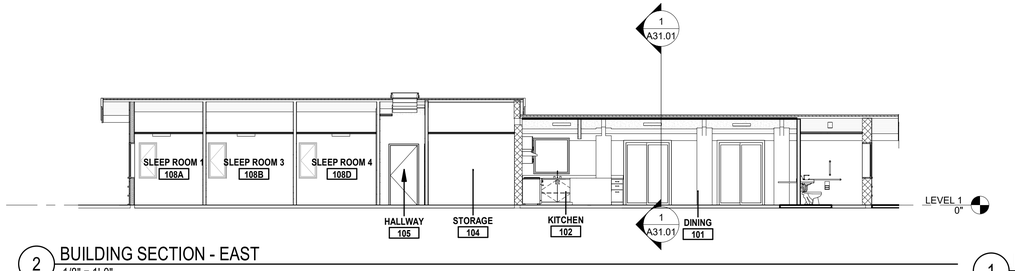
FIRE STATION 65 4966 SOUTH 298th STREET,
AUBURN, WA 98001



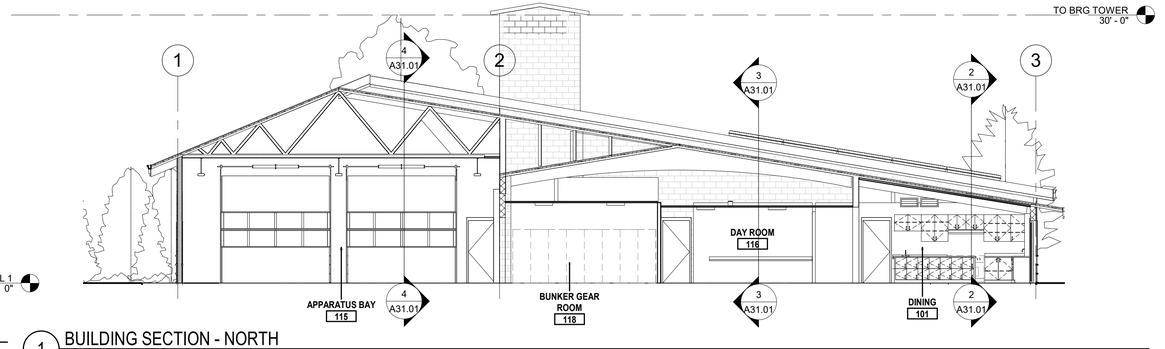
4 APP BAY - EAST
1/8" = 1'-0"



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



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



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

PROJECT # 2015137.01

BID SET

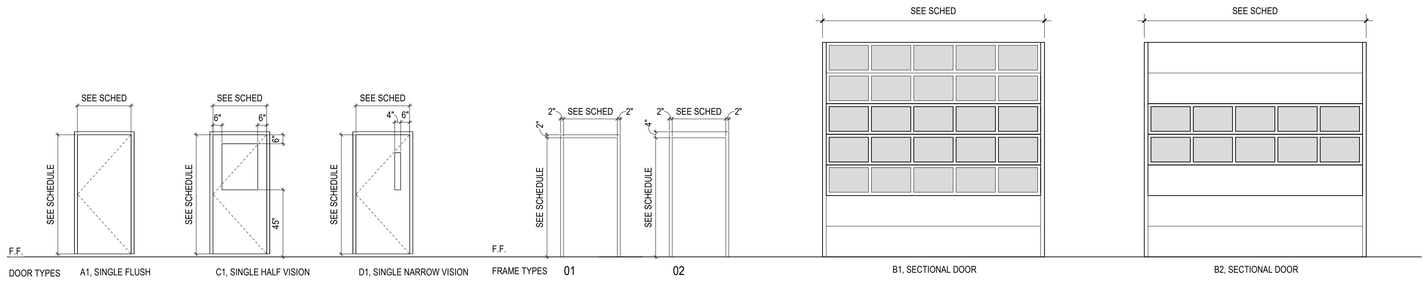
ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE

BUILDING ELEVATIONS AND BUILDING SECTIONS

SHEET:

A31.01



DOOR & FRAME TYPES

G-2 DOUBLE SAFETY, FIRE RATED GLAZING

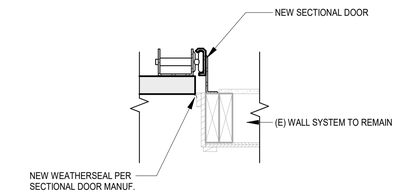
G-1 SINGLE SAFETY GLAZING; NON-FIRE RATED

GLAZING LEGEND

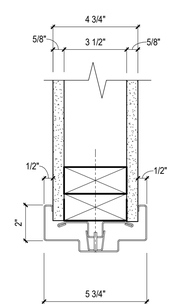
1/4" = 1'-0"

DOOR SCHEDULE

DOOR #	DOOR INFORMATION TYPE	MATERIAL	FINISH	GLAZING	HEIGHT	WIDTH	THICKNESS	FRAME INFORMATION TYPE	MATERIAL	FINISH	FIRE RATING	HARDWARE GROUP	COMMENTS
124	C1	WD	P-2	G-1	7' - 0"	3' - 0"	1 3/4"	01	HM	P-2	NA	HW2	SAFETY GLAZING
126	A1	WD	P-2		7' - 0"	3' - 0"	1 3/4"	01	HM	P-2	NA	HW1	
131	B1	STEEL	FACTORY/P-3	G-2	12' - 0"	12' - 0"	2"			P-2	NA		SAFETY AND INSULATING GLAZING. TYP. DOOR JAMB, DETAIL 2, THIS SHEET
132	B1	STEEL	FACTORY/P-3	G-2	12' - 0"	12' - 0"	2"			P-2	NA		SAFETY AND INSULATING GLAZING. TYP. DOOR JAMB, DETAIL 2, THIS SHEET
135	B2	STEEL	FACTORY/P-3	G-2	12' - 0"	12' - 0"	2"				NA		SAFETY AND INSULATING GLAZING. TYP. DOOR JAMB, DETAIL 2, THIS SHEET
136	B2	STEEL	FACTORY/P-3	G-2	12' - 0"	12' - 0"	2"				NA		SAFETY AND INSULATING GLAZING. TYP. DOOR JAMB, DETAIL 2, THIS SHEET
139	C1	HM	P-2	G-1	7' - 0"	3' - 0"	1 3/4"	01	HM	P-2	NA	HW2	SAFETY GLAZING
141	C1	HM	P-2	G-1	7' - 0"	3' - 0"	1 3/4"	01	HM	P-2	NA	HW2	SAFETY GLAZING



2 SECTION DOOR JAMB
1 1/2" = 1'-0"



1 TYP INT DOOR JAMB DETAIL (HEAD SIM)
3" = 1'-0"

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REVISION SCHEDULE

DOOR SCHEDULE AND DETAILS

SHEET:

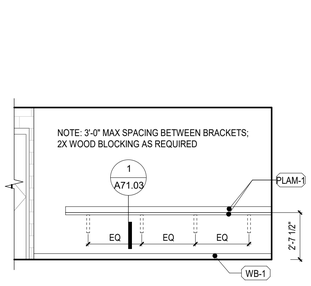
A60.01

ROOM FINISH SCHEDULE

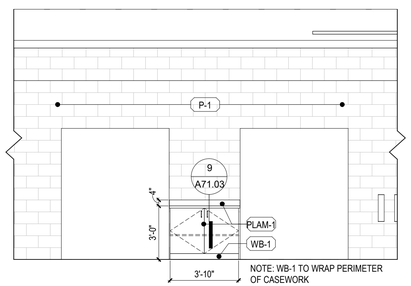
ROOM INFORMATION		FINISH INFORMATION, TYP. U.N.O.				
NUMBER	NAME	WALL	BASE	FLOOR	CEILING	Comments
101	DINING	P-1	T-3	T-2	GWB/P-1	NO FINISH TO (E) BEAMS
102	KITCHEN	P-1	T-3	T-2	GWB/P-1	
120	CENTRAL STORAGE	EXIST/P-1	EXIST/WB-1	EXIST	EXIST	P-1 AT NEW WALLS; WB-1 AT NEW GWB WALLS
109	P.T. ROOM	P-1	EXIST/WB-1	EXIST	ACT-1	WB-1 AT WALLS NOTED IN PLAN; P-1 AT PATCHING
114	SEWING ROOM	EXIST/P-1	EXIST	EXIST	EXIST/GWB/P-1	P-1 AT PATCHING
110	STORAGE	EXIST/P-1	EXIST/WB-1	EXIST	EXIST/GWB/P-1	P-1, WB-1 AT NEW GWB; P-1 GWB PER RCP
111	OFFICER'S BUNKER	P-1	WB-1	CPT-1	ACT-1	
112	HOSE TOWER	EXIST	EXIST	EXIST	EXIST	
105	HALLWAY	P-1	WB-1	WOM-1	EXIST/GWB/P-1	
107	RESTROOM	P-1/FRP-1	T-3	T-2	ACT-1	
106	RESTROOM	P-1/FRP-1	T-3	T-2	ACT-1	
104	STORAGE	EXIST	EXIST	EXIST/CONC	ACT-1	
103	RESTROOM	P-1/FRP-1	T-3	T-2	ACT-1	
108A	SLEEP ROOM 1	P-1	WB-1	CPT-1	ACT-1	
108B	SLEEP ROOM 3	P-1	WB-1	CPT-1	ACT-1	
108D	SLEEP ROOM 4	P-1	WB-1	CPT-1	ACT-1	
108E	HALLWAY	P-1	WB-1	WOM-1	ACT-1	
113	LAUNDRY	EXIST/P-1	EXIST	EXIST/CONC	EXIST	P-1 AT PATCHING AND AT NEW WALL
116	DAY ROOM	P-1	T-3	T-2	ACT-1	
119	DECON	EXIST/P-1/FRP-3	EXIST/WB-1	EXIST/CONC	GWB/P-1	P-1, WB-1 AND FRP-3 AT NEW GWB WALLS; P-1 GWB PER RCP
118	BUNKER GEAR ROOM	EXIST/P-1	EXIST/WB-1	EXIST/CONC	ACT-1	P-1 AND WB-1 AT NEW GWB WALLS
115	APPARATUS BAY	P-1/FRP-2	EXIST	EXIST/CONC	EXIST/GWB/P-1	FRP-2 TO REPLACE ALL CURRENT WALL PROTECTION IN THE SAME LOCATIONS; CONC AND GWB PATCHING PER PLANS; P-1 ALL WALLS, EAST WALL LOGO/GRAPHIC TO REMAIN UNTOUCHED
121	ADA PUBLIC RESTROOM	P-1	T-3	T-2	GWB/P-1	
122	LOBBY	P-1	T-3	T-2	ACT-1	

FINISH LEGEND

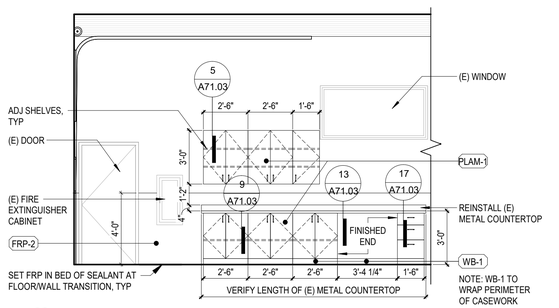
TAG	MATERIAL	NOTES
FLOOR		
CONC	CONCRETE PATCHING/NEW CONCRETE	
CPT-1	CARPET, MODULAR	
EXIST	EXISTING	
RES-1	RESILIENT SHEET FLOORING	
T-2	FLOOR TILE	
WOM-1	WALK OFF CARPET, MODULAR	
WALL		
FRP-1	PLASTIC SHEET PANELING - WAINSCOT	
FRP-2	PLASTIC SHEET PANELING - WAINSCOT	
FRP-3	PLASTIC SHEET PANELING - WAINSCOT	
P-1	INTERIOR PAINT	MATCH EXISITNG WALL COLOR
P-2	INTERIOR PAINT	MATCH EXISITNG DOOR AND TRIM COLOR
T-1	WALL TILE	
T-3	TILE WALL BASE	
WB-1	RESILIENT WALL BASE	
CASEWORK		
PLAM-1	PLASTIC LAMINATE	
QTZ-1	QUARTZ COUNTERTOP	
DOOR		
PLAM-2	PLASTIC LAMINATE CLAD DOOR FINISH	
CEILING		
ACT-1	ACOUSTIC CEILING TILE	
GWB	GYPSUM WALL BOARD	



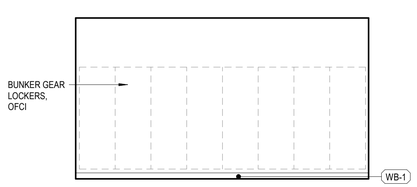
7 DAYROOM - NORTH
1/4" = 1'-0"



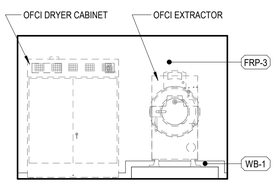
6 APP BAY - EAST WALL CASEWORK
1/4" = 1'-0"



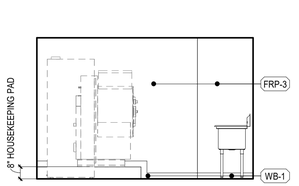
5 APP BAY - WEST WALL CASEWORK
1/4" = 1'-0"



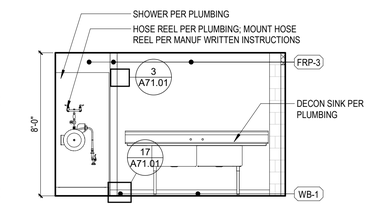
4 BUNKER GEAR TYP
1/4" = 1'-0"



3 DECON NORTH
1/4" = 1'-0"



2 DECON EAST
1/4" = 1'-0"



1 DECON SOUTH
1/4" = 1'-0"

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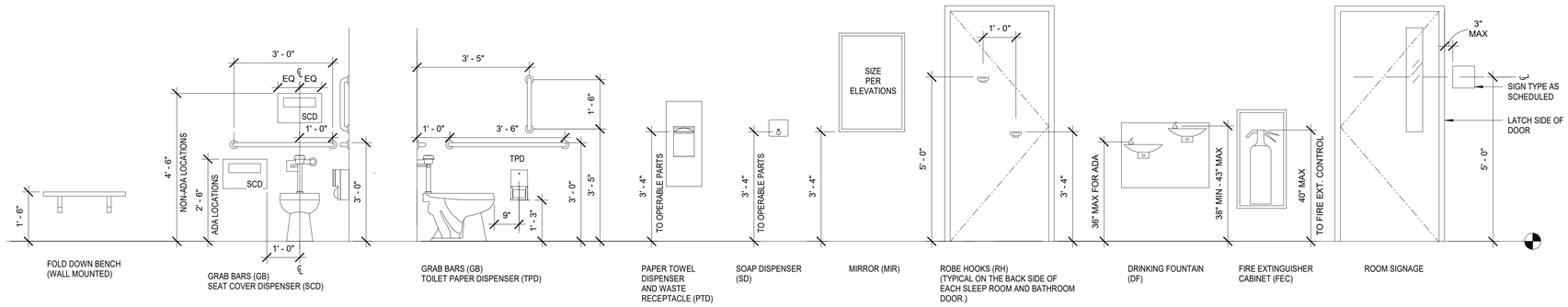
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REVISION SCHEDULE

INTERIOR ELEVATIONS AND FINISH INFORMATION

SHEET:

A70.01



FOLD DOWN BENCH (WALL MOUNTED)

GRAB BARS (GB)
SEAT COVER DISPENSER (SCD)

GRAB BARS (GB)
TOILET PAPER DISPENSER (TPD)

PAPER TOWEL DISPENSER AND WASTE RECEPTACLE (PTD)

SOAP DISPENSER (SD)

MIRROR (MIR)

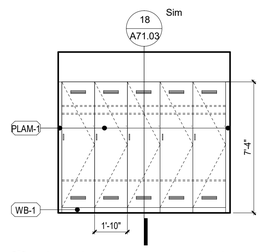
ROBE HOOKS (RH)
(TYPICAL ON THE BACK SIDE OF EACH SLEEP ROOM AND BATHROOM DOOR.)

DRINKING FOUNTAIN (DF)

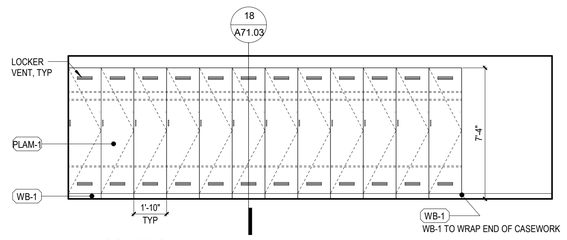
FIRE EXTINGUISHER CABINET (FEC)

ROOM SIGNAGE

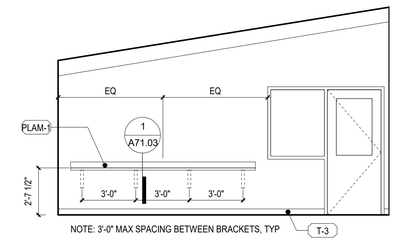
BATHROOM ACCESSORIES MOUNTING HEIGHT



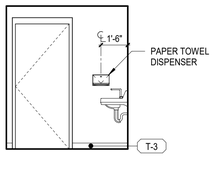
13 OFFICER'S BUNKER LOCKERS
1/4" = 1'-0"



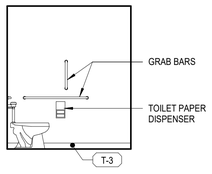
12 HALLWAY LOCKERS
1/4" = 1'-0"



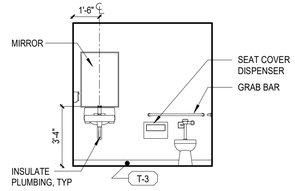
11 DINING WORKSTATION - SOUTH
1/4" = 1'-0"



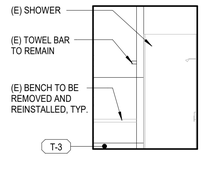
10 ADA PUBLIC RESTROOM WEST
1/4" = 1'-0"



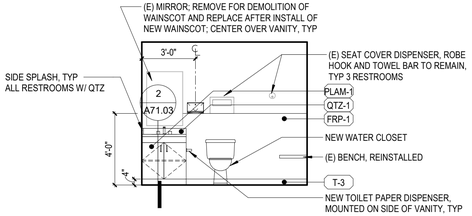
9 ADA PUBLIC RESTROOM EAST
1/4" = 1'-0"



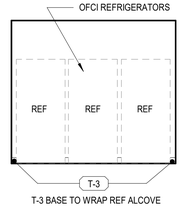
8 ADA PUBLIC RESTROOM NORTH
1/4" = 1'-0"



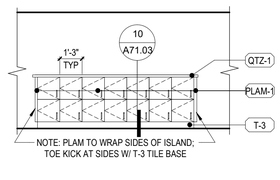
7 RESTROOM - SOUTH, TYP
1/4" = 1'-0"



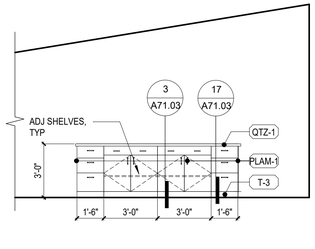
6 RESTROOM VANITY, TYP
1/4" = 1'-0"



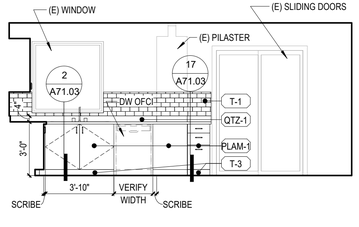
5 KITCHEN WEST
1/4" = 1'-0"



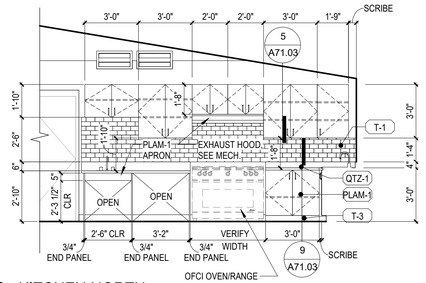
4 KITCHEN ISLAND FOOD LOCKERS
1/4" = 1'-0"



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



2 KITCHEN EAST
1/4" = 1'-0"



1 KITCHEN NORTH
1/4" = 1'-0"

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FACILITY IMPROVEMENTS
FIRE STATION 65 4966 SOUTH 298th STREET,
AUBURN, WA 98001

PROJECT # 2015137.01

BID SET

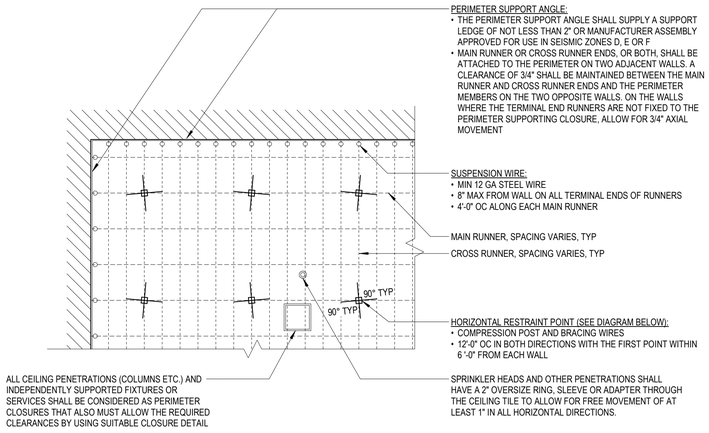
ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE

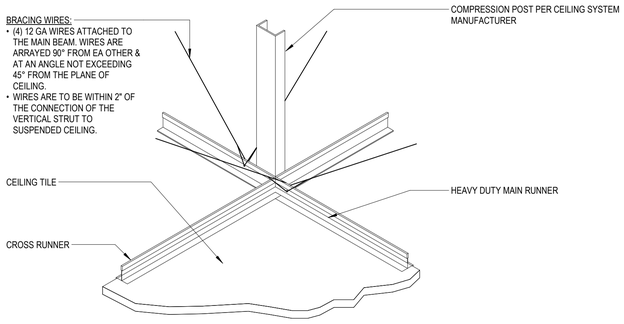
INTERIOR ELEVATIONS

SHEET:

A70.02



PLAN DIAGRAM



LATERAL FORCE BRACING DIAGRAM

NOTES:

1. SUSPENDED CEILING SYSTEM INSTALLATION SHALL BE INSTALLED PER IBC 2015 (IBC 808 AND IBC 1604.10), ASCE 7-10, AND ASTM E580.

2. THIS DETAIL APPLIES TO SEISMIC DESIGN CATEGORIES D, E, AND F.

3. SPREADER (SPACER) BARS OR OTHER MEANS APPROVED BY THE LOCAL BUILDING DEPT. SHALL BE USED TO PREVENT ENDS OF MAIN BEAMS AT PERIMETER WALLS FROM SPREADING OPEN DURING A SEISMIC EVENT. PERIMETER WIRES SHALL NOT BE USED IN LIEU OF SPREADER BARS.

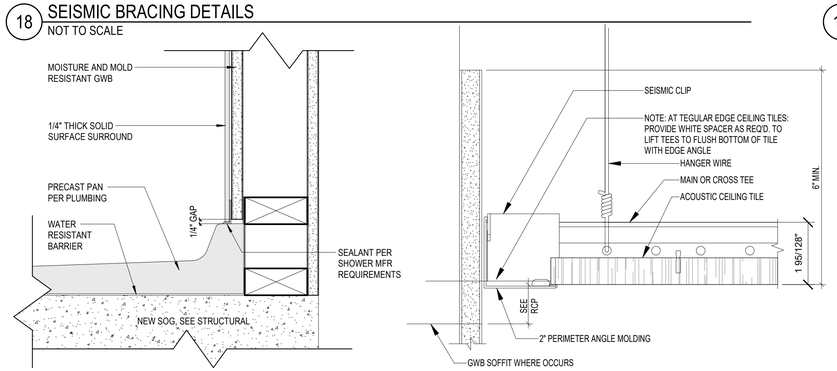
4. FOR CEILING AREAS EXCEEDING 2,500 SF, A SEISMIC SEPARATION JOINT OR FULL HEIGHT PARTITION THAT BREAKS THE CEILING UP INTO AREAS NOT EXCEEDING 2,500 SF, EACH WITH A RATIO OF THE LONG TO SHORT DIMENSION LESS THAN OR EQUAL TO 4, SHALL BE PROVIDED UNLESS STRUCTURAL ANALYSES ARE PERFORMED OF THE CEILING BRACING SYSTEM FOR THE PRESCRIBED SEISMIC FORCES THAT DEMONSTRATE CEILING PENETRATIONS AND CLOSURE ANGLES OR CHANNELS PROVIDE SUFFICIENT CLEARANCE TO ACCOMMODATE THE ANTICIPATED LATERAL DISPLACEMENT. EACH AREA SHALL BE PROVIDED WITH CLOSURE ANGLES OR CHANNELS IN ACCORDANCE WITH THE PERIMETER SUPPORT ANGLE DESCRIBED ABOVE AND HORIZONTAL RESTRAINTS OR BRACING.

5. CHANGES IN CEILING PLANE ELEVATION SHALL HAVE INDEPENDENT POSITIVE BRACING.

6. PARTITIONS THAT ARE TIED TO THE CEILING AND ALL PARTITIONS GREATER THAN 6 FEET IN HEIGHT SHALL BE LATERALLY BRACED TO THE STRUCTURE. SUCH BRACING SHALL BE INDEPENDENT OF ANY CEILING LATERAL FORCE BRACING.

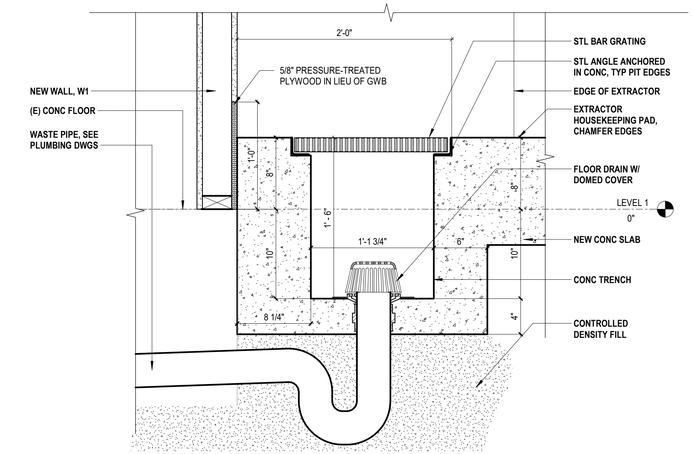
7. POWER ACTUATED FASTENERS IN CONCRETE OR STEEL SHALL NOT BE USED FOR SUSTAINED TENSION LOADS OR FOR BRACE APPLICATIONS IN SEISMIC DESIGN CATEGORIES D, E, OR F UNLESS APPROVED FOR SEISMIC LOADING. POWER ACTUATED FASTENERS IN MASONRY ARE NOT PERMITTED UNLESS APPROVED FOR SEISMIC LOADING.
   A. EXCEPTIONS:
      a. POWER ACTUATED FASTENERS IN CONCRETE USED FOR SUPPORT OF ACOUSTICAL TILE OR LAY-IN PANEL SUSPENDED CEILING APPLICATIONS AND DISTRIBUTED SYSTEMS WHERE THE SERVICE LOAD ON ANY INDIVIDUAL FASTENER DOES NOT EXCEED 90 LB (400N).
      b. POWER ACTUATED FASTENERS IN STEEL WHERE THE SERVICE LOAD ON ANY INDIVIDUAL FASTENER DOES NOT EXCEED 250 LB (1,112N).

18 SEISMIC BRACING DETAILS
NOT TO SCALE

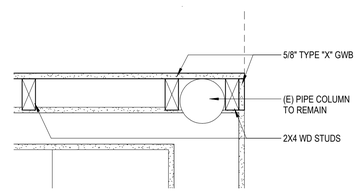


17 DECON SHOWER BASE DETAIL
3" = 1'-0"

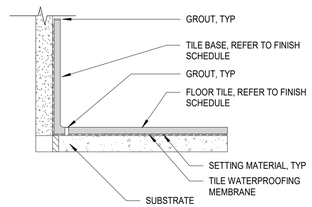
13 TYP. CEILING EDGE ANGLE DETAIL
6" = 1'-0"



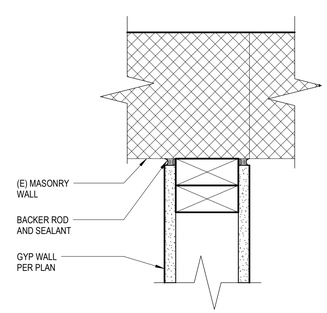
8 TRENCH DRAIN DETAIL
1 1/2" = 1'-0"



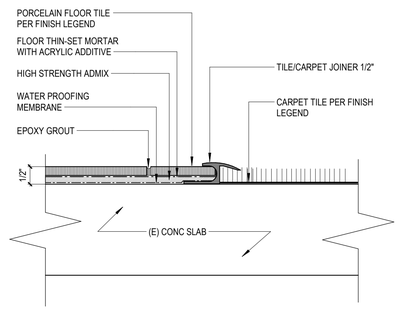
11 ENLARGED KITCHEN PLAN - PIPE COLUMN
1 1/2" = 1'-0"



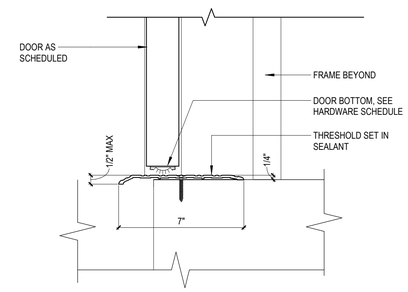
7 TILE BASE DETAIL - TOILET RMS.
3" = 1'-0"



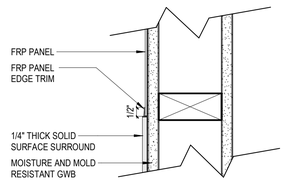
10 NEW WALL TO CMU INTERSECTION
3" = 1'-0"



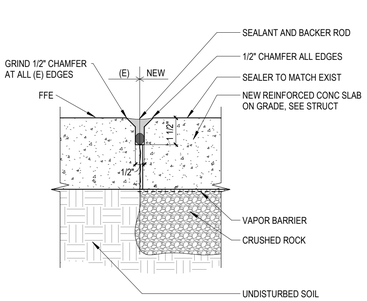
6 FLOOR TRANSITION - TILE / CARPET
6" = 1'-0"



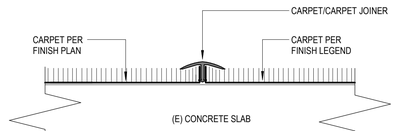
4 THRESHOLD AT DOORS 139, 141
3" = 1'-0"



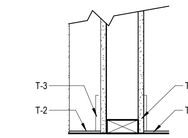
3 DECON ROOM SHOWER PANEL CONNECTION
3" = 1'-0"

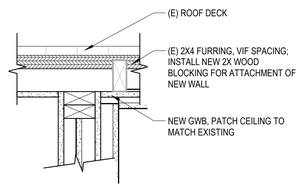


9 TYP SLAB JOINT DETAIL
3" = 1'-0"



5 FLOOR TRANSITION - CARPET / CARPET
6" = 1'-0"





1 NEW LOBBY PARTITION - HEAD DETAIL
1 1/2" = 1'-0"

2 NEW LOBBY PARTITION - SILL DETAIL
1 1/2" = 1'-0"

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BID SET

ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE

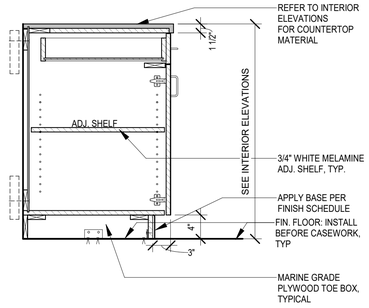
INTERIOR DETAILS

SHEET:

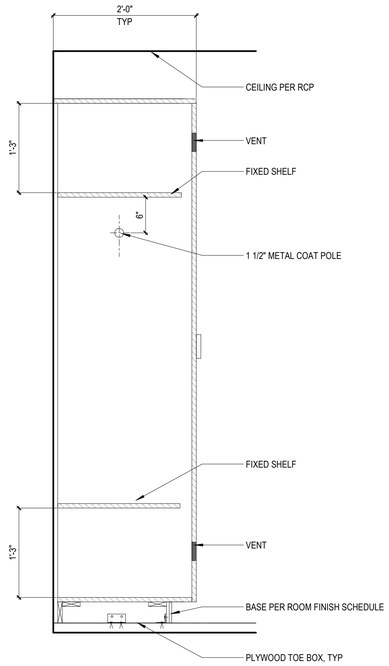
A71.01

GENERAL NOTES - CASEWORK

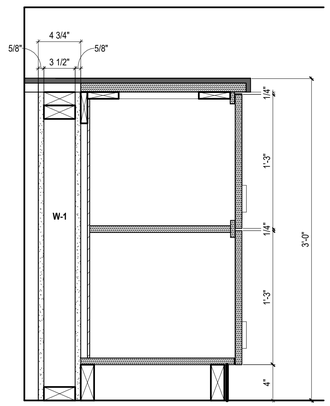
- BASE CABINETS TO BE 24" DEEP, UNO.
- UPPER CABINETS TO BE 12" DEEP, UNO.
- FINISH EXPOSED ENDS OF CABINETRY, TYP.



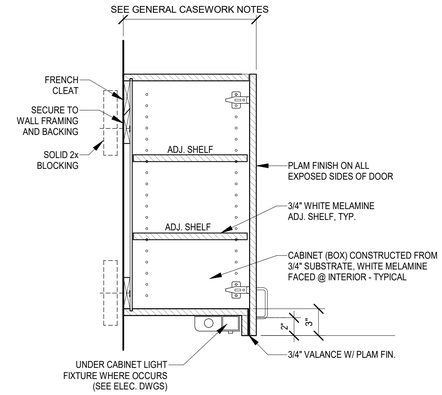
3 TYP. 1-DWR BASE CABINET
1" = 1'-0"



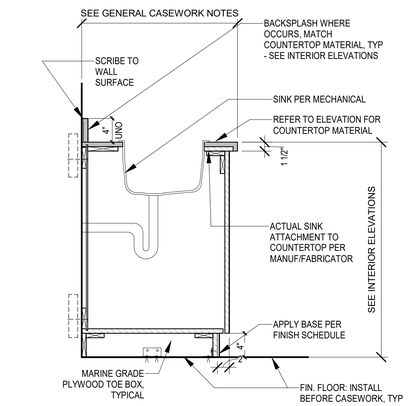
18 HALLWAY LOCKER TYP SECTION
1" = 1'-0"



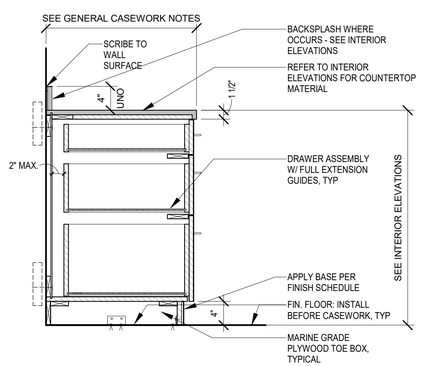
10 ISLAND FOOD LOCKERS
1 1/2" = 1'-0"



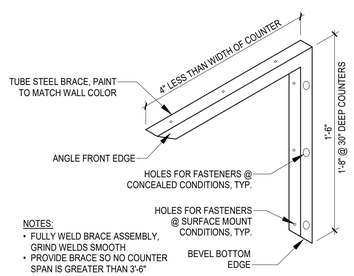
6 TYP. UPPER CABINET W/LIGHT VALANCE
1 1/2" = 1'-0"



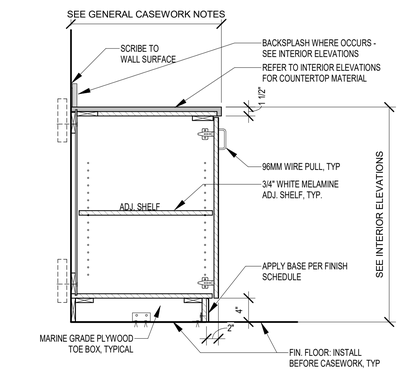
2 TYP. BASE CABINET W/SINK
1" = 1'-0"



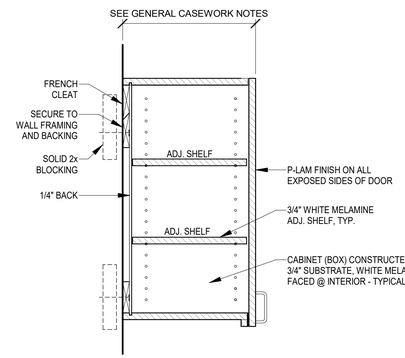
17 TYP. 3-DWR BASE CABINET
1" = 1'-0"



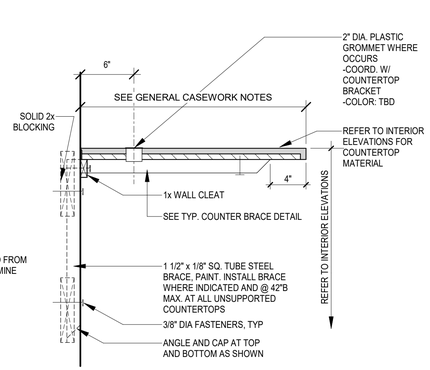
13 TYP. COUNTER BRACE DETAIL
1 1/2" = 1'-0"



9 TYP. BASE CABINET W/DOOR
1" = 1'-0"



5 TYP. UPPER CABINET
1 1/2" = 1'-0"



1 TYP. COUNTER SUPPORT
1 1/2" = 1'-0"

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BID SET

ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE

CASEWORK DETAILS

SHEET:

A71.03

ABBREVIATIONS

&	AND
@	AT
AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADJ	ADJACENT, ADJUSTABLE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
ALT	ALTERNATE
ANCH	ANCHOR
APA	AMERICAN PLYWOOD ASSOCIATION
APPROX	APPROXIMATE
AR	ANCHOR ROD
ARCH	ARCHITECT, ARCHITECTURAL
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
B/	BOTTOM OF
BAL	BALANCE
BC	BOTTOM CHORD
BF	BRACED FRAME
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BOF	BOTTOM OF FOOTING
BOT	BOTTOM
BP, B PL	BASE PLATE
BRG	BEARING
BTWN	BETWEEN
BU	BUILT-UP
C	CAMBER, CHANNEL
CA	CONCRETE (EXPANSION) ANCHOR
CANTIL	CANTILEVER
CAP	CAPACITY
CC	CENTER-TO-CENTER
CDF	CONTROL DENSITY FILL
CG	CENTER OF GRAVITY
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT, CONSTRUCTION JOINT

CJP, CP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUE, CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CRSI	CONCRETE REINFORCED STEEL INSTITUTE
CTR	CENTER, CENTERED
CU YD	CUBIC YARD
d	PENNYWEIGHT (NAILS)
DB	DIVIDER BEAM, DROPPED BEAM
D-B	DESIGN-BUILD
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DEG, °	DEGREE
DEMO	DEMOLISH, DEMOLITION
DET	DETAIL
DF	DOUGLAS FIR
DIA	DIAMETER
DIAG	DIAGONAL
DIAPH	DIAPHRAGM
DICA	DRILLED-IN CONCRETE ANCHOR
DIM	DIMENSION
DIST	DISTANCE
DL	DEAD LOAD
DN	DOWN
DO	DITTO
DP	DEEP
DS	DRAG STRUT
DWG	DRAWING
DWL	DOWEL
(E) EXIST	EXISTING
EA	EACH, EPOXY (ADHESIVE) ANCHOR
EE	EACH END
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR

EMBED	EMBEDMENT
ENGR	ENGINEER
EQ	EARTHQUAKE, EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
ETC	ET CETERA
E-W	EAST-WEST
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR
EXT GR	EXTERIOR GRADE
FD	FLOOR DRAIN
FDN	FOUNDATION
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY
FF	FAR FACE, FINISH FLOOR
FIN	FINISH
FLR	FLOOR
FLG	FLANGE
FS	FAR SIDE
FT, '	FEET
FTG	FOOTING
GA	GAGE, GAUGE
GALV	GALVANIZED
GB, GR BM	GRADE BEAM
GEN	GENERAL
GL, GLU LAM	GLUE LAMINATED WOOD
GLB	GLUE LAMINATED BEAM
GRD	GIRDER
GRND	GROUND
GWB	GYPSUM WALL BOARD
HDR	HEADER
HGR	HANGER
HK	HOOK
HD	HOLD DOWN
HORIZ	HORIZONTAL
HPT	HIGH POINT
HSB	HIGH STRENGTH BOLT
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER

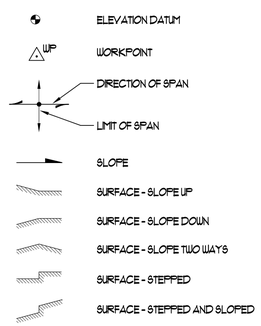
IF	INSIDE FACE
IN, "	INCH
INCL	INCLUDE
INFO	INFORMATION
INT	INTERIOR
IJ	ISOLATION JOINT
JST	JOIST
JT	JOINT
K	KIP (1000 LB)
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	LENGTH, ANGLE
LB, #	POUND
LEV	LEVEL
LF	LINEAL FOOT
LL	LIVE LOAD
LLBB	LONG LEGS BACK TO BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION, LOCATE
LONGIT	LONGITUDINAL
LPT	LOW POINT
LSH	LONG SLOTTED HOLE
LSL	LAMINATED STRAND LUMBER
LVL	LAMINATED VENEER LUMBER
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MF	MOMENT FRAME
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MPH	MILES PER HOUR
MTL	METAL
NF	NEAR FACE
NIC	NOT IN CONTRACT
NLG	NAILING
NOM	NOMINAL
NO, #	NUMBER
N-S	NORTH-SOUTH
NS	NEAR SIDE
NTS	NOT TO SCALE

OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
OSH	OVERSIZED HOLE
OWJ	OPEN WEB JOIST
PA	POWDER ACTUATED
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PEN	PENETRATION
PERP	PERPENDICULAR
PL	PLATE, PROPERTY LINE
PLCS	PLACES
PLF	POUNDS PER LINEAR FOOT
PLWD	PLYWOOD
PNL	PANEL
PP, PJP	PARTIAL JOINT PENETRATION
PRCST	PRECAST
PREFAB	PREFABRICATED
PS	PRESTRESSED CONCRETE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PT	POINT, PRESSURE TREATED
P-T	POST-TENSIONED
PVC	POLYVINYL CHLORIDE
R, RAD	RADIUS
RD	ROOF DRAIN
REBAR	REINFORCING STEEL BARS
REF	REFERENCE
REINF	REINFORCING
REM	REMAINDER
REQD	REQUIRED
RTN	RETURN
SCHED	SCHEDULE
SECT	SECTION
SHT	SHEET
SHTHG	SHEATHING
SIM	SIMILAR
SJI	STEEL JOIST INSTITUTE
SOG	SLAB ON GRADE
SPC	SPACE, SPACED, SPACING

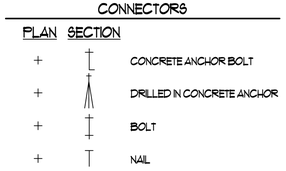
SPEC	SPECIFICATION
SQ	SQUARE
SST	STAINLESS STEEL
SSH	SHORT SLOTTED HOLE
STAG	STAGGER, STAGGERED
STD	STANDARD
STF	STIFFENER
STR	STIRRUP
STL	STEEL
STRUCT	STRUCTURAL
SPRT	SUPPORT
SW	SHEAR WALL
SWS	SHEAR WALL SCHEDULE
SYMM	SYMMETRICAL, SYMMETRY
T/	TOP OF
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TC	TOP CHORD
TBD	TO BE DETERMINED
TEMP	TEMPERATURE
THK	THICK, THICKNESS
THP	TENDON HIGH POINT
THRU	THROUGH
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOS	TOP OF STEEL
TOW	TOP OF WALL
TR	THREADED ROD
TRANS	TRANSVERSE
TYP	TYPICAL
TWS	THREADED WELDED STUD
UBC	UNIFORM BUILDING CODE
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W	WIDTH, WIDE FLANGE
W/	WITH
WD	WOOD
WF	WIDE FLANGE
WHS	WELDED HEADED STUD
WJ	WOOD I-JOIST
W/O	WITHOUT
WP	WORK POINT
WT	WEIGHT
WWF	WELDED WIRE FABRIC

SYMBOLS

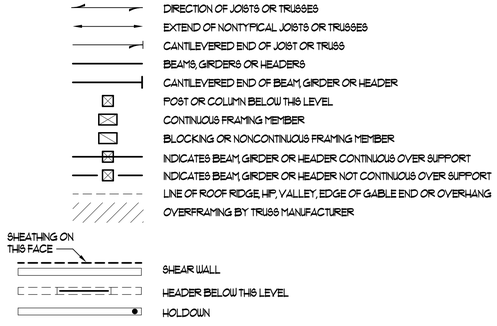
GENERAL SYMBOLS



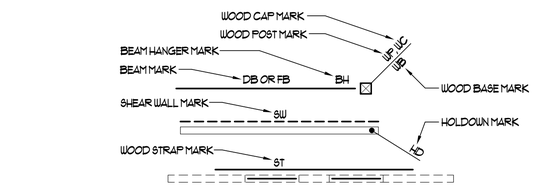
CONNECTORS



WOOD SYMBOLS



WOOD FRAMING ANNOTATIONS



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STATE OF WASHINGTON · CHRISTOPHER A. CARLSON · 43107 · REGISTERED STRUCTURAL ENGINEER · PROFESSIONAL ENGINEER

01/01/20

SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
STATION 65 4966 SOUTH 298TH STREET,
AUBURN, WA 98001

PROJECT # 262016.018

BID SET

ISSUED: 09/03/2021

REVISION SCHEDULE

ABBREVIATIONS AND SYMBOLS

SHEET:

S00.01

GENERAL STRUCTURAL NOTES

GENERAL

ALL TYPICAL DETAILS AND NOTES SHOWN ON THESE DRAWINGS ARE PART OF THE CONSTRUCTION CONTRACT AND SHALL BE PROVIDED BY THE CONTRACTOR. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS, BUT SHALL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS.

CODES

THE EXISTING STRUCTURE DOES NOT CONFORM TO PRESENT EARTHQUAKE CODE REQUIREMENTS FOR NEW BUILDINGS. THE STRENGTHENING WORK SHOWN IS A VOLUNTARY SEISMIC UPGRADE TO SEISMICALLY REINFORCE THE EXISTING BUILDING IN ACCORDANCE WITH THE INTERNATIONAL EXISTING BUILDING CODE (IEBC), AS ALLOWED BY SECTION 101.4.7 OF THE INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION, AND IS WITHIN THE CURRENT PRACTICE FOR THE RENOVATION OF EXISTING BUILDINGS OF THIS AGE AND TYPE OF CONSTRUCTION.

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

CRITERIA

EARTHQUAKE DESIGN DATA:

EXISTING SEISMIC-FORCE-RESISTING SYSTEM: PLYWOOD SHEATHED SHEAR WALLS AND DIAPHRAGMS

ANALYSIS PROCEDURE: LINEAR STATIC PROCEDURE (LSP)

PSEUDO SEISMIC BASE SHEAR (ASCE 41-13 SECTION 7.4.1.3.1):
- BSE-1E (N-S) = 213 KIPS
- BSE-1E (E-W) = 193 KIPS
- BSE-2E (N-S) = 420 KIPS
- BSE-2E (W-S) = 381 KIPS

SEISMIC RESPONSE COEFFICIENT (ASCE 41 SECTION 7.4.1.3.1): C_1 C_2 C_M S_{a}-1E = 0.956; C_1 C_2 C_M S_{a}-2E = 1.885

SITE CLASS = D (ASCE 41-13 SECTION 2.4.1.6.2)

- S_{S}-1E = 0.485 (ASCE 41-13 SECTION 2.4.1.4)
- S_{1}-1E = 0.176 (ASCE 41-13 SECTION 2.4.1.4)
- S_{XS}-1E = 0.68 (ASCE 41-13 SECTION 2.4.1.6)
- S_{X1}-1E = 0.371 (ASCE 41-13 SECTION 2.4.1.6)

- S_{S}-2E = 0.931 (ASCE 41-13 SECTION 2.4.1.3)
- S_{1}-2E = 0.359 (ASCE 41-13 SECTION 2.4.1.3)
- S_{XS}-2E = 1.05 (ASCE 41-13 SECTION 2.4.1.6)
- S_{X1}-2E = 0.60 (ASCE 41-13 SECTION 2.4.1.6)

LEVEL OF SEISMICITY = HIGH (ASCE 41-13 SECTION 2.5)

ASCE 41-13 PERFORMANCE OBJECTIVE FOR STRENGTHENED AND NEW STRUCTURAL ELEMENTS = IMMEDIATE OCCUPANCY AT BSE-1E

GEOTECHNICAL

ALLOWABLE SOIL PRESSURE, LATERAL EARTH PRESURE, AND SOIL PROFILE TYPE ARE ASSUMED AND THEREFORE MUST BE VERIFIED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER OR INSPECTOR. IF SOILS ARE FOUND TO BE OTHER THAN ASSUMED OR FOUND TO BE EXPANSIVE, NOTIFY THE ARCHITECT OR STRUCTURAL ENGINEER FOR POSSIBLE REDESIGN.

FOOTINGS SHALL BEAR ON FIRM, UNDISTRUBED EARTH OR CONTROLLED, COMPACTED STRUCTURAL FILL AT LEAST 18" BELOW LOWEST ADJACENT EXTERIOR FINISHED GRADE. FOOTING DEPTHS AND ELEVATIONS SHOWN ON DRAWINGS ARE MINIMUM AND FOR GUIDANCE ONLY; CONTRACTOR SHALL ESTABLISH ACTUAL ELEVATIONS IN FIELD. BACKFILL BEHIND ALL WALLS WITH FREE DRAINING, GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE IN AN APPROVED MANNER.

SOIL PROFILE TYPE	SITE CLASS "D"
ALLOWABLE VERTICAL DESIGN PRESSURE	2,500 PSF
LATERAL EARTH PRESSURE, LEVEL BACKFILL:	
UNRESTRAINED (ACTIVE)	35 PCF
RESTRAINED (AT-REST)	55 PCF

SUBMITTALS

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

STRUCTURAL STEEL

CONTRACTOR SHALL REVIEW AND STAMP SUBMITTALS PRIOR TO SUBMISSION. DIMENSIONS AND QUANTITIES ARE CONTRACTOR'S RESPONSIBILITY AND WILL NOT BE REVIEWED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS PLACED PRIOR TO RECEIPT OF REVIEWED SHOP DRAWINGS. CONTRACTOR SHALL ALLOW A MINIMUM OF 10 WORKING DAYS FOR REVIEW.

SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHED AND INSTALLED AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHODS. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.

DEFERRED SUBMITTALS: DRAWINGS AND CALCULATIONS FOR BIDDER-DESIGNED COMPONENTS, SEALED BY THE WASHINGTON STATE REGISTERED PROFESSIONAL STRUCTURAL ENGINEER RESPONSIBLE FOR THE DESIGN, SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW OF GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. DEFERRED SUBMITTALS INCLUDE:

SEISMIC BRACING AND ANCHORAGE OF MECHANICAL EQUIPMENT PER NOTES BELOW

SUBMITTALS OF BIDDER-DESIGNED COMPONENTS SHALL INCLUDE LOCATIONS, MAGNITUDES, AND DIRECTIONS OF ALL FORCES TRANSFERRED TO THE STRUCTURE. CALCULATIONS SUBMITTED FOR BIDDER-DESIGNED COMPONENTS ARE FOR INFORMATION ONLY AND WILL NOT BE REVIEWED.

SEISMIC BRACING AND ANCHORAGE OF MECHANICAL UNITS AND OTHER MECHANICAL AND ELECTRICAL FIXTURES NOT SPECIFICALLY SHOWN ON THE PROJECT DRAWINGS SHALL BE DESIGNED BY A REGISTERED STRUCTURAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. THE MECHANICAL AND ELECTRICAL CONTRACTORS MUST RETAIN THE SERVICES OF A STRUCTURAL ENGINEER AND IS RESPONSIBLE FOR ALL COSTS RELATED TO THE PURCHASE AND INSTALLATION OF SEISMIC BRACING AND ANCHORAGE OF THEIR SYSTEMS.

SPECIAL INSPECTION PER IBC SECTION 1704, SHALL BE PERFORMED BY AN AGENCY APPROVED BY THE BUILDING OFFICIAL AND AS OUTLINED IN THE STRUCTURAL INSPECTION SCHEDULE, SHEET S-003.

STRUCTURAL OBSERVATION SHALL BE PERFORMED PER IBC SECTION 1704.

EXISTING CONDITIONS: CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERFIED. EXISTING CONDITIONS SHOWN ON DRAWINGS ARE BASED EITHER ON SITE OBSERVATIONS, ORIGINAL DRAWINGS, OR WERE ASSUMED BASED ON EXPECTED CONDITIONS. IF EXISTING CONDITIONS DO NOT CLOSELY MATCH CONDITIONS SHOWN ON DRAWINGS, OR IF EXISTING MATERIALS ARE OF QUESTIONABLE OR SUBSTANDARD QUALITY, NOTIFY ENGINEER PRIOR TO COMMENCING ANY WORK.

CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT FOR APPROVAL AT LEAST 10 WORKING DAYS PRIOR TO FABRICATION AND CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS OR SUBMITTALS ONLY WILL NOT SATISFY THIS REQUIREMENT.

CONTRACTOR RESPONSIBILITIES: DRAWINGS REPRESENT DESIGN OF STRUCTURE IN COMPLETED FORM. CONTRACTOR SHALL BE RESPONSIBLE FOR METHODS, SEQUENCES, AND SAFETY PRECAUTIONS REQUIRED TO PERFORM WORK.

CONTRACTOR SHALL DESIGN AND PROVIDE TEMPORARY SHORING AND BRACING OF ALL STRUCTURAL MEMBERS, EXISTING CONSTRUCTION, AND SOIL EXCAVATION AS REQUIRED. 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.

DISCREPANCIES: IN CASE OF DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS, REFERENCE STANDARDS, OR GOVERNING CODE, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN. CONTRACTOR SHALL NOTIFY THE ENGINEER OF DISCREPANCIES AND OBTAIN DIRECTION PRIOR TO PROCEEDING. NOTES ON INDIVIDUAL NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS.

SPECIFICATIONS: REFER TO SPECIFICATIONS FOR INFORMATION IN ADDITION TO THESE NOTES AND DRAWINGS.

ARCHITECTURAL: REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS, SLOPES, DEPRESSIONS, NON-BEARING WALLS, FASCIA, ELEVATORS, STAIRS, CURBS, DRAINS, RAILINGS, WATERPROOFING, FINISHES, ETC.

RENOVATION

CONTRACTOR SHALL CHECK FOR DRY ROT AT ALL EXTERIOR WALLS, EXISTING TOILET ROOM FLOORS AND WALLS, AREAS SHOWING WATER STAINS, AND ALL WOOD MEMBERS IN BASEMENT AND CRAWL SPACES. ALL ROT SHALL BE REMOVED AND DAMAGED MEMBERS SHALL BE REPLACED OR REPAIRED AS DIRECTED BY THE ENGINEER

DEMOLITION: CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING ANY DEMOLITION. SHORING SHALL BE INSTALLED TO SUPPORT EXISTING CONSTRUCTION AS REQUIRED AND IN A MANNER SUITABLE TO THE WORK SEQUENCES. EXISTING REINFORCING SHALL BE SAVED WHERE POSSIBLE AND AS NOTED ON DRAWINGS. SAW-CUTTING, IF AND WHERE USED, SHALL NOT CUT EXISTING REINFORCING THAT IS TO BE SAVED. DEMOLITION DEBRIS SHALL NOT BE ALLOWED TO DAMAGE OR OVERLOAD THE EXISTING STRUCTURE. CONSTRUCTION LOADING (INCLUDING DEMOLITION DEBRIS) ON EXISTING FLOOR SYSTEMS SHALL BE LIMITED TO 40 PSF.

1. ALL NEW OPENINGS THROUGH EXISTING CONCRETE OR MASONRY WALLS, SLABS, AND BEAMS SHALL BE ACCOMPLISHED BY SAWCUTTING WHEREVER POSSIBLE. ALL NEW OPENINGS SHALL BE SAWCUT NEAT AND CLEAN; NO OVERCUTTING AT OPENING CORNERS SHALL BE ALLOWED, UNLESS NOTED OTHERWISE. AS REQUIRED, CORE DRILL CORNERS AND CHIP, GRIND, OR CUT THE CORNERS TO PROVIDE REQUIRED DIMENSIONS
2. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND LOCATION OF MEMBERS PRIOR TO CUTTING ANY OPENINGS.
3. SMALL ROUND OPENINGS SHALL BE ACCOMPLISHED BY CORE DRILLING.

CONCRETE

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

ACI 308	"STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE"
ACI 318	"BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
ACI 304	"GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE"
ACI 311	"GUIDE FOR CONCRETE INSPECTION"
ACI SP-15 *	"FIELD REFERENCE MANUAL"

* A COPY SHALL BE KEPT IN THE CONTRACTOR'S FIELD OFFICE AT ALL TIMES.

MATERIALS:

CEMENT	ASTM C150, C595
* AGGREGATES	ASTM C33
ADMIXTURES	ASTM C260, C494, C1017
** FLY ASH	ASTM C618, CLASS F OR C

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

** MAXIMUM LOSS ON IGNITION SHALL BE 1%.

CONCRETE SHALL BE PROPORTIONED TO ACHIEVE A WORKABLE MIX THAT CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER. MIX DESIGNS SHALL BE SUBMITTED (TO THE ARCHITECT) FOR REVIEW BY ENGINEER PRIOR TO USE. COMPLY WITH IBC SECTION 1904. MIXES SHALL MEET OR EXCEED THE FOLLOWING CRITERIA:

TYPE OF CONSTRUCTION	SPECIFIED COMPRESSIVE STRENGTH (f'_c)	TEST AGE	MAXIMUM WATER / CEMENT RATIO	EXPOSURE CLASS (ACI 318-11 TABLES 4.2 AND 4.3.1)
CONCRETE EXPOSED TO WEATHER	4,500 PSI	28 DAYS	0.5	F1, S0, P0, C1
CONCRETE EXPOSED TO EARTH	4,000 PSI	28 DAYS	0.4 **	F0, S0, P0, C1
COLUMNS AND SHEAR WALLS (SHOTCRETE)	6,000 PSI	28 DAYS		AS INDICATED ABOVE
ALL OTHER CONCRETE (UNLESS SPECIFIED BELOW)	4,000 PSI	28 DAYS	**	F0, S0, P0, C0

** WATER-CEMENTITIOUS MATERIAL RATIO FOR INTERIOR SLABS SHALL BE 0.4 UNLESS OTHERWISE NOTED.

ADMIXTURES: ALL CONCRETE, INCLUDING SLABS ON GRADE, SHALL HAVE A WATER-REDUCING ADMIXTURE COMPLYING WITH ASTM C494 ADDED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. CALCIUM CHLORIDE OR OTHER CHLORIDE ADMIXTURES SHALL NOT BE USED.

ALL HORIZONTAL SURFACES EXPOSED TO WEATHER SHALL CONTAIN AN AIR-ENTRAINING AGENT COMPLYING WITH ASTM C260. THE AMOUNT OF ENTRAINED AIR SHALL BE IN ACCORDANCE WITH TABLE 1 OF ASTM C94 FOR MODERATE EXPOSURE. TESTS FOR AIR CONTENT SHALL BE MADE AT THE DISCHARGE END OF THE TRUCKS PLACING HOSE IN ACCORDANCE WITH ASTM C173.

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

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

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

CAST-IN-PLACE MAY BE USED IN LIEU OF SHOTCRETE AS INDICATED ON THE DRAWINGS OR WHERE APPROVED BY THE STRUCTURAL ENGINEER. CONTRACTOR SHALL OBTAIN THE APPROVALS, TESTS, AND INSPECTIONS REQUIRED BY THE BUILDING DEPARTMENT FOR SHOTCRETE INSTALLATIONS.

SHOTCRETE PROCEDURE MATERIALS, EQUIPMENT, PROPORTIONS, BATCHING AND MIXING, AND PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 506R-90 AND IBC SECTION 1910. REINFORCING LAP SPLICES SHALL BE DETAILED ON SHOP DRAWINGS AS NON-CONTACT LAP SPLICES WITH A MINIMUM OF 2" CLEARANCE BETWEEN BARS.

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

BONDING AGENT SHALL BE "CONCRESIVE 1080 LIQUID" BASF, OR APPROVED EQUAL, AND SHALL BE USED WHERE NEW CONCRETE IS PLACED AGAINST EXISTING CONCRETE. PLACE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, INCLUDING PREPARATION OF EXISTING SURFACES.

NON-SHRINK GROUT SHALL BE "CONSTRUCTION GROUT" BY BASF, OR APPROVED EQUAL, AND SHALL BE MIXED AND PLACED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (3,000 PSI MINIMUM).

COORDINATION: SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND DIMENSIONS OF DOOR AND WINDOW OPENINGS IN CONCRETE WALLS. SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF MISCELLANEOUS MECHANICAL OPENINGS THROUGH CONCRETE CONSTRUCTION. SEE ARCHITECTURAL DRAWINGS FOR ALL GROOVES, NOTCHES, CHAMFERS, FEATURE STRIPS, COLOR, TEXTURE, AND OTHER FINISH DETAILS AT EXPOSED CONCRETE SURFACES.

CONCRETE REINFORCEMENT

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

ACI 301	"STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE"
ACI SP-66	"ACI DETAILING MANUAL"
ACI 318	"BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
CRSI	"PLACING REINFORCING BARS"
CRSI	"MANUAL OF STANDARD PRACTICE" MSP-1
WRI	"WELDED WIRE FABRIC MANUAL OF STANDARD PRACTICE"

MATERIALS:

DEFORMED BARS	ASTM A615, GRADE 60
SMOOTH WELDED WIRE	ASTM A185, F_y=56KSI (W1.2) & 65KSI (W1.2)
DEFORMED BAR ANCHORS	ASTM A496, 75 KSI YIELD
BAR SUPPORTS	CONFORM TO CHAPTER 3, CRSI MSP-1
WELDED HEADED STUDS	ASTM A108

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

LAP ALL CONTINUOUS REINFORCEMENT (#5 AND SMALLER) 40 BAR DIAMETERS OR 2'-0" MINIMUM UNLESS OTHERWISE NOTED. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS (#5 AND SMALLER) 40 BAR DIAMETERS OR 2'-0" MINIMUM. LAPS OF LARGER BARS SHALL BE MADE IN ACCORDANCE WITH ACI 318-08, CLASS B. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 1 CROSS WIRE SPACING + 2" OR 8" WHICHEVER IS GREATER.

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

SLABS ON GRADE	2" BOTTOM
INTERIOR WALL FACES	3/4" (#11 AND SMALLER), 1 1/2" (#14 AND #18)
EXPOSED FORMED WALL FACES	1 1/2" (#5 AND SMALLER), 2" (#6 AND LARGER)
FOOTINGS	3" (EXCEPT 2" TOP AND FORMED SIDES)
BEAMS, COLUMNS	1 1/2" (ALL REINFORCEMENT INCLUDING TIES, SPIRALS, STIRRUPS)

CONCRETE ANCHORAGE

POST-INSTALLED ANCHORS INTO NORMAL-WEIGHT CONCRETE SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND NOTED ICC-ES REPORTS. SUBSTITUTES PROPOSED BY CONTRACTOR SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW BY ENGINEER WITH ICC-ES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. ANCHORS SHALL BE THE FOLLOWING TYPES:

EXPANSION ANCHORS SHALL BE HILTI "KWIK BOLT TZ" (ESR-1917) OR SIMPSON STRONG BOLT (ESR-1771) OR POWERS "POWER STUD+ SD2".

ADHESIVE ANCHORS SHALL BE HILTI HIT-RE 500-V3 (ESR-3814) OR SIMPSON SET-XP (ESR-2508) OR POWERS PE1000+ (ESR-2583).

SCREW ANCHORS INTO CONCRETE SHALL BE SIMPSON TITEN HD (ESR-2713) OR POWERS SNAKE+ (ESR-2272).

DRIVE PINS AND OTHER POWDER-ACTUATED FASTENERS SHALL BE ITW RAMSET/RED HEAD (ESR-1799).

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

STEEL

REFERENCE STANDARDS: STRUCTURAL STEEL SHALL CONFORM TO ALL REQUIREMENTS OF THE FOLLOWING DOCUMENTS:

AISC 360	"SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"
AISC 341	"SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS"
AISC 303	"CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"
AWS D1.1	"STRUCTURAL WELDING CODE - STEEL"
AISC 348	"SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS"
AISC 358	"PREQUALIFIED CONNECTIONS FOR SPECIAL AND INTERMEDIATE STEEL MOMENT FRAMES FOR SEISMIC APPLICATIONS"

STRUCTURAL STEEL, INCLUDING PLATES, ANGLES, CHANNELS, AND RODS, SHALL CONFORM TO ASTM A36, F_y = 36 KSI. WIDE FLANGE AND WT STEEL SHAPES SHALL CONFORM TO ASTM A992, F_y = 50 KSI. STEEL PIPE SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B, F_y = 35 KSI. STRUCTURAL TUBING (HSS) SHALL CONFORM TO ASTM A500, GRADE B, F_y = 46 KSI. ANCHOR BOLTS AND CONNECTION BOLTS SHALL CONFORM TO ASTM A307.

WELDING: ALL WELDS SHALL COMPLY WITH AWS D1.1. WELDS SHALL BE MADE USING LOW HYDROGEN E70XX ELECTRODES, ONLY AWS PREQUALIFIED WELDED JOINTS SHALL BE USED. SHOP DRAWINGS SHALL SHOW ALL WELDING WITH AWS A2.4 STANDARD SYMBOLS. WELDS SHOWN ON DRAWINGS ARE MINIMUM SIZES. INCREASE WELD SIZE TO AWS MINIMUM SIZES BASED ON PLATE THICKNESS. WELDS NOT SPECIFIED SHALL BE CONTINUOUS 3/16" FILLET WELDS.

WELDS SHOWN ON DRAWINGS ARE FOR FINAL CONNECTIONS. UNLESS FIELD WELD SYMBOLS ARE SHOWN, CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING IF A WELD SHOULD BE SHOP OR FIELD WELDED IN ORDER TO FACILITATE STEEL ERECTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL JOINT PREPARATIONS AND WELDING PROCEDURES, INCLUDING ROOT OPENINGS AND FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, COPES, TAPERS, AND SURFACE ROUGHNESS.

WELDER CERTIFICATION: AWS OR WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO).

COLD-FORMED STEEL FRAMING SHALL COMPLY WITH ASTM A653, TYPE SS, GRADE 33, UNLESS NOTED OTHERWISE. FOR SIZES SHOWN ON DRAWINGS, REFER TO ICC-ES ER-4943 DESIGNATIONS. ALL STUDS, TRACKS, AND JOISTS SHALL BE GALVANIZED PER ASTM A924, G60. FASTENINGS NOT SHOWN ON DRAWINGS SHALL BE AS RECOMMENDED BY THE MANUFACTURER.

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STATE OF WASHINGTON 43107 REGISTERED PROFESSIONAL ENGINEER
01/10/20

SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
STATION 65 4966 SOUTH 298TH STREET,
AUBURN, WA 98001

PROJECT # 262016.018
BID SET
ISSUED: 09/03/2021

REVISION SCHEDULE

GENERAL STRUCTURAL NOTES

SHEET:
S00.02

GENERAL STRUCTURAL NOTES

MASONRY ANCHORAGE

POST-INSTALLED MASONRY ANCHORS INTO SOLID GROUTED MASONRY SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND NOTED ICC-ES REPORTS. SUBSTITUTES PROPOSED BY CONTRACTOR SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW BY ENGINEER WITH ICC-ES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. ANCHORS SHALL BE THE FOLLOWING TYPES:

EXPANSION ANCHORS SHALL BE SIMPSON WEDGE-ALL (ESR-1396) OR HILTI KWIK BOLTS (ICC-ESR 1385).

ADHESIVE ANCHORS SHALL BE SIMPSON SET (ESR-1772) OR HILTI HY-150 (ESR-2616).

WOOD

REFERENCE STANDARDS: WOOD SHALL CONFORM TO ALL REQUIREMENTS OF THE FOLLOWING DOCUMENTS:

AITC	"TIMBER CONSTRUCTION MANUAL"
NDS	"NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION"
AF AND PA SDPWS	"SUPPLEMENT SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC"
AITC A190.1	"STRUCTURAL GLUED LAMINATED TIMBER"
AITC A117	"STANDARD SPECIFICATIONS FOR STRUCTURAL GLUED LAMINATED TIMBER OF SOFTWOOD SPECIES"
TPI 1	"NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION"

PLYWOOD & ORIENTED STRAND BOARD (OSB): WOOD STRUCTURAL PANELS SHALL CONFORM TO REQUIREMENTS OF US DEPARTMENT OF COMMERCE PS-1 OR PS-2, EACH PANEL SHALL BEAR THE AMERICAN PLYWOOD ASSOCIATION (APA) GRADE MARK. SEE DRAWINGS FOR GRADE, GLUE TYPE AND THICKNESS.

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

SAWN LUMBER: SAWN LUMBER SHALL BE IDENTIFIED BY THE GRADE MARK OF A LUMBER GRADING OR INSPECTION AGENCY APPROVED BY AN ACCREDITATION BODY COMPLYING WITH US DEPARTMENT OF COMMERCE PS20. SAWN LUMBER SPECIES AND GRADES SHALL BE AS FOLLOWS:

USE	SIZE	SPECIES	GRADE
WALL STUDS	2x 3x	DOUG-FIR	#3 OR STUD
SILL PLATES	2x 3x	DOUG-FIR	#3 OR STUD
JOISTS	2x	DOUG-FIR	#2
JOISTS	3x 4x	DOUG-FIR	#2
BEAMS / POSTS	4x	DOUG-FIR	#1
BEAMS / POSTS	6x	DOUG-FIR	#1

GLUE LAMINATED MEMBERS (GLULAMS) SHALL BE MANUFACTURED IN CONFORMANCE WITH AITC 117 AND ASTM D3737. EACH MEMBER SHALL BEAR AN AITC OR APA IDENTIFICATION MARK AND BE ACCOMPANIED BY AN AITC CERTIFICATE OF CONFORMANCE. GLULAMS SHALL BE INDUSTRIAL GRADE WITH STRENGTH GRADES AS NOTED BELOW.

SIMPLE SPAN BEAMS:	24F-V4 (Fb = 2400 PSI, Fv=240 PSI, E = 1800 KSI)
CONTINUOUS BEAMS:	24F-V8 (Fb = 2400 PSI, Fv=240 PSI, E = 1800 KSI)
COLUMNS:	DOUGLAS FIR COMBINATION 1-DF-L3
(2 LAMINATIONS)	Fc = 1200 PSI, $F_{c\perp}$ = 1000 PSI, F_{cxx} = 1250 PSI, E = 1500 KSI
(3 LAMINATIONS)	Fc = 1200 PSI, $F_{c\perp}$ = 1250 PSI, F_{cxx} = 1250 PSI, E = 1500 KSI
(4 OR MORE LAMINATIONS)	Fc = 1350 PSI, $F_{c\perp}$ = 1450 PSI, F_{cxx} = 1500 PSI, E = 1500 KSI

GLUED LAMINATED MEMBERS EXPOSED TO WEATHER OR MOISTURE SHALL BE TREATED WITH A NON-CORROSIVE, APPROVED PRESERVATIVE

PREFABRICATED WOOD I-JOISTS: DESIGN SHOWN ON DRAWINGS IS BASED ON JOISTS MANUFACTURED BY WEYERHAEUSER IN ACCORDANCE WITH ICC-ES ESR-1153. SUBSTITUTES SHALL BE SUBMITTED WITH A CURRENT ICC-ES OR IAPMO EVALUATION REPORT AND AN ITEMIZED SUBSTITUTION LIST FOR APPROVAL. JOISTS SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURERS INSTRUCTIONS. ALL NECESSARY ACCESSORIES, SUCH AS BRIDGING, BLOCKING AND STIFFENERS, SHALL BE FURNISHED BY THE MANUFACTURER. PERMANENT AND TEMPORARY BRIDGING SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURERS INSTRUCTIONS. ALL JOIST HANGERS AND OTHER HARDWARE SHALL BE COMPATIBLE IN SIZE WITH ENGINEERED WOOD I-JOISTS PROVIDED.

ALL I-JOIST HANGERS SHALL BE 'HU' SERIES, UNLESS OTHERWISE NOTED.

STRUCTURAL COMPOSITE LUMBER: DESIGN SHOWN ON DRAWINGS IS BASED ON LUMBER MANUFACTURED BY WEYERHAEUSER IN ACCORDANCE WITH ICC-ES ESR-1387. SUBSTITUTES SHALL BE SUBMITTED WITH A CURRENT ICC-ES EVALUATION REPORT AND AN ITEMIZED SUBSTITUTION LIST FOR APPROVAL.

BEAMS: LAMINATED STRAND LUMBER (LSL)
Fb = 2250 PSI, E = 1500 KSI, Fv = 400 PSI (DEPTH > 9 1/2")
Fb = 1700 PSI, E = 1300 KSI, Fv = 400 PSI (DEPTH < 9 1/2")

LAMINATED VENEER LUMBER (LVL)
Fb = 2600 PSI, E = 1900 KSI, Fv = 285 PSI

PARALLEL STRAND LUMBER (PSL)
Fb = 2900 PSI, E = 2000 KSI, Fv = 290 PSI

RIM BOARD: LAMINATED STRAND LUMBER (LSL)
Fb = 1700 PSI, E = 1300 KSI, Fv = 400 PSI

STUDS: LAMINATED STRAND LUMBER (LSL)
Fb = 2250 PSI, E = 1500 KSI, Fv = 400 PSI, Fc = 1950 PSI (WIDTH > 7 1/4")
Fb = 1700 PSI, E = 1300 KSI, Fv = 400 PSI, Fc = 1400 PSI (WIDTH < 7 1/4")

POSTS: PARALLEL STRAND LUMBER (PSL)
Fb = 2400 PSI, E = 1800 KSI, Fv = 290 PSI, Fc = 2500 PSI

CONNECTORS: DESIGN SHOWN ON DRAWINGS IS BASED ON CONNECTORS MANUFACTURED BY SIMPSON STRONG-TIE IN ACCORDANCE WITH CATALOG C-C-2015. SUBSTITUTES SHALL BE SUBMITTED WITH A CURRENT ICC-ES EVALUATION REPORT AND AN ITEMIZED SUBSTITUTION LIST FOR APPROVAL. CONNECTORS SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURERS INSTRUCTIONS. ALL TIMBER JOISTS AND MULTIPLE JOIST BEAMS SHALL BE CONNECTED TO FLUSH BEAMS WITH 'HU' SERIES JOIST HANGERS, UNLESS OTHERWISE NOTED.

ALL TIMBER CONNECTORS IN CONTACT WITH PRESSURE-TREATED WOOD THAT USES PRESERVATIVE CHEMICALS SHALL BE MANUFACTURED FROM ZMAX STEEL BY SIMPSON (G185 STEEL PER ASTM A653), OR TYPE 304 OR 316 STAINLESS STEEL. ALTERNATIVELY, CONNECTORS CAN BE POST HOT DIP GALVANIZED PER ASTM A123 OR MECHANICALLY GALVANIZED PER ASTM B695, CLASS 55 OR GREATER. STAINLESS STEEL FASTENERS SHALL BE USED WITH STAINLESS STEEL CONNECTORS, AND HOT DIP GALVANIZED FASTENERS PER ASTM A153 SHALL BE USED WITH GALVANIZED CONNECTORS.

NAILING NOT SHOWN SHALL BE AS SHOWN IN IBC TABLE 2304.9.1. NAILS SHALL COMPLY WITH ASTM F1667. MINIMUM NAIL DIMENSIONS SHALL BE AS FOLLOWS:

SIZE	DIAMETER	LENGTH
SHTHG NAILS		
8d	0.131"	2 1/4"
10d	0.148"	2 1/2"
FRAMING NAILS		
10d	0.148"	3"
12d	0.148"	3 1/4"
16d	0.162"	3 1/2"

BOLTS SHALL CONFORM TO ASTM A307, LAG SCREWS SHALL CONFORM TO ASME B18.2.1. INSTALL WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. INSTALLATION OF LAG SCREWS SHALL CONFORM TO 2012 NDS SECTION 11.1.4, AND INSTALLATION OF BOLTS SHALL CONFORM TO 2012 NDS SECTION 11.1.3.

PRESERVATIVE TREATED WOOD: ALL WOOD MEMBERS EXPOSED TO WEATHER AND SPECIFIED AS "PT" ON THE DRAWINGS SHALL BE PRESERVATIVE-TREATED IN ACCORDANCE WITH AWPA U. EACH MEMBER SHALL BE IDENTIFIED BY THE QUALITY MARK OF AN INSPECTION AGENCY LISTED BY THE AMERICAN LUMBER STANDARDS TREATED WOOD PROGRAM, AND COMPLYING WITH IBC SECTION 2303.1.8.1. FASTENERS IN PRESERVATIVE OR FIRE TREATED WOOD MEMBERS SHALL BE HOT DIPPED ZINC COATED GALVANIZED PER ASTM A153.

SEE GENERAL STRUCTURAL NOTE REGARDING CONNECTORS FOR MATERIAL REQUIREMENTS OF CONNECTORS AND FASTENERS IN CONTACT WITH PRESSURE-TREATED MEMBERS. INSTALL 2 LAYERS OF ASPHALT-IMPREGNATED BUILDING PAPER BETWEEN UNTREATED LEDGERS, BLOCKING, ETC., AND CONCRETE OR MASONRY.

GENERAL WOOD FRAMING NOTES: THE FOLLOWING APPLY UNLESS OTHERWISE NOTED ON THE DRAWINGS:

A. ALL WOOD FRAMING DETAILS SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE IBC. MINIMUM NAILING SHALL CONFORM TO IBC TABLE 2304.10.1 OR CURRENT ICC-ES REPORT NER-272, UNLESS OTHERWISE NOTED. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.

B. WALL FRAMING: TWO STUDS MINIMUM SHALL BE INSTALLED AT THE ENDS OF ALL WALLS, UNLESS OTHERWISE NOTED. INSTALL SOLID BLOCKING FOR WOOD COLUMNS THROUGH FLOOR SPACES TO SUPPORTS BELOW.

ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH 16d NAILS AT 12"oc STAGGERED OR BOLTED TO CONCRETE WITH 5/8" DIAMETER ANCHOR BOLTS @ 4'-0"oc PER IBC SECTION 2308.3 (EMBED 7"), UNLESS OTHERWISE NOTED. 3" x 3" x 0.229" PLATE WASHERS SHALL BE USED WITH ALL SILL PLATE ANCHOR BOLTS PER SDPWS SECTION 4.3.6.4.3. INDIVIDUAL MEMBERS OF BUILT-UP STUD POSTS SHALL BE NAILED TO EACH OTHER WITH 16d @ 12"oc STAGGERED.

C. FLOOR AND ROOF FRAMING: INSTALL DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS THAT EXTEND OVER MORE THAN HALF THE JOIST LENGTH AND AROUND ALL OPENINGS IN FLOORS OR ROOFS. INSTALL SOLID BLOCKING AT ALL BEARING POINTS. TOENAIL JOISTS TO SUPPORTS WITH TWO 16d NAILS. ATTACH TIMBER JOISTS TO FLUSH HEADERS OR BEAMS WITH SIMPSON METAL JOIST HANGERS IN ACCORDANCE WITH NOTES ABOVE. NAIL ALL MULTI-JOIST BEAMS TOGETHER WITH 16d @ 12"oc STAGGERED.

ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH GRAIN PERPENDICULAR TO SUPPORTS AND NAILED AS SHOWN ON THE DRAWINGS. INSTALL APPROVED PANEL EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED TONGUE-AND- GROOVE JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF SHEATHING. TOENAIL BLOCKING TO SUPPORTS WITH 16d @ 12"oc. AT BLOCKED FLOOR AND ROOF DIAPHRAGMS, INSTALL FLAT 2x BLOCKING AT ALL UNFRAMED PANEL EDGES AND NAIL WITH EDGE NAILING SPECIFIED.

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STATE OF WASHINGTON 43107 REGISTERED STRUCTURAL ENGINEER PROFESSIONAL ENGINEER
01/10/20

SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
STATION 65 4966 SOUTH 298TH STREET,
AUBURN, WA 98001

PROJECT # 262016.018
BID SET
ISSUED: 09/03/2021

REVISION SCHEDULE

GENERAL STRUCTURAL NOTES

SHEET:
S00.03

SPECIAL INSPECTION SCHEDULES

SEE EARTHQUAKE DESIGN DATA SECTION OF THE GENERAL STRUCTURAL NOTES ON SHEET S00.02 FOR SEISMIC-FORCE RESISTING SYSTEMS. SEISMIC-FORCE-RESISTING SYSTEMS (INCLUDING DRAG STRUTS AND CHORDS) ARE SUBJECT TO SPECIAL INSPECTION IN ACCORDANCE WITH THE FOLLOWING SEISMIC AND NON-SEISMIC TABLES. STRUCTURAL SYSTEMS NOT PART OF THE SEISMIC-FORCE-RESISTING SYSTEM NEED ONLY BE INSPECTED IN ACCORDANCE WITH NON-SEISMIC TABLES.

STRUCTURAL STEEL SPECIAL INSPECTION

SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE ACCORDANCE WITH AISC 341, AISC 360, AND THE FOLLOWING INFORMATION.

TASK- INDICATES WHETHER TO OBSERVE OR PERFORM (OR BOTH) THE INSPECTION TASK.
DOC - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
O - OBSERVE THESE FUNCTIONS ON A RANDOM, DAILY BASIS, OPERATIONS NEED NOT BE DELAYED PENDING INSPECTIONS. FREQUENCY OF OBSERVATIONS SHALL BE ADEQUATE TO CONFIRM THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE DOCUMENTS.
P - PERFORM, FOR EACH JOINT OR MEMBER PRIOR TO THE FINAL ACCEPTANCE OF THE ITEM.
QC - TASKS INDICATED AS 'QC' SHALL BE EXECUTED BY THE FABRICATOR AND ERECTOR IN ACCORDANCE WITH AISC 360 CHAPTER N
QA - TASKS INDICATED AS 'QA' SHALL BE EXECUTED BY THE SPECIAL INSPECTOR IN ACCORDANCE WITH AISC 360 CHAPTER N.

WELDING

INSPECTION TASKS	QC	QA	REFERENCED STANDARD
INSPECT THE FABRICATED STEEL AND ERECTED STEEL FRAME TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	P	P	AISC 360 CH. N

WELDING

INSPECTION TASKS PRIOR TO WELDING	QC	QA	REFERENCED STANDARD	IBC REFERENCE
INSPECTION TASKS PRIOR TO WELDING	QC	QA	AISC 360 CH. N AND AWS D1.1	1705.2.1
WELDING PROCEDURE SPECIFICATIONS (WPSS) AVAILABLE	P	P		
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P		
MATERIAL IDENTIFICATION (TYPE / GRADE)	O	O		
WELDER IDENTIFICATION SYSTEM[1]	O	O		
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)	O	O		
CONFIGURATION AND FINISH OF ACCESS HOLES	O	O		
FIT-UP OF FILLET WELDS, DIMENSIONS (ALIGNMENT, GAPS AT ROOT), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION)	O	O		
CHECK WELDING EQUIPMENT	O	-		
INSPECTION TASKS DURING WELDING			**REFERENCED STANDARD**	**IBC REFERENCE**
INSPECTION TASKS DURING WELDING	QC	QA	AISC 360 CH. N AND AWS D1.1	1705.2.1
USE OF QUALIFIED WELDERS	O	O		
CONTROL AND HANDLING OF WELDING CONSUMABLES, PACKAGING, EXPOSURE CONTROL	O	O		
NO WELDING OVER CRACKED TACK WELDS	O	O		
ENVIRONMENTAL CONDITIONS, WIND SPEED WITHIN LIMITS, PRECIPITATION AND TEMPERATURE	O	O		
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)	O	O		
WELDING TECHNIQUES, INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETS QUALITY REQUIREMENTS	O	O		
INSPECTION TASKS AFTER WELDING			**REFERENCED STANDARD**	**IBC REFERENCE**
INSPECTION TASKS AFTER WELDING	QC	QA	AISC 360 CH. N AND AWS D1.1	1705.2.1
WELDS CLEANED	O	O		
SIZE, LENGTH AND LOCATION OF WELDS	P	P		
WELDS MEET VISUAL ACCEPTANCE CRITERIA, CRACK PROHIBITION, WELD / BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, POROSITY	P	P		
ARC STRIKES	P	P		
k-AREA[2]	P	P		
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P		
REPAIR ACTIVITIES	P	P		
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P		

[1] THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE

[2] WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3 INCHES OF WELD.

BOLTING

INSPECTION TASKS PRIOR TO BOLTING	QC	QA	REFERENCED STANDARD	IBC REFERENCE
INSPECTION TASKS PRIOR TO BOLTING	QC	QA	AISC 360 CH. N	1705.2.1
MANUFACTURERS CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P		
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O		
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	O	O		
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O		
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O		
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	O		
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	O		
INSPECTION TASKS DURING BOLTING			**REFERENCED STANDARD**	**IBC REFERENCE**
INSPECTION TASKS DURING BOLTING	QC	QA	AISC 360 CH. N	1705.2.1
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	O	O		
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	O		
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O		
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	O		
INSPECTION TASKS AFTER BOLTING			**REFERENCED STANDARD**	**IBC REFERENCE**
INSPECTION TASKS AFTER BOLTING	QC	QA	AISC 360 CH. N	1705.2.1
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P		

SEISMIC WELDING

VISUAL INSPECTION TASK PRIOR TO WELDING	QC TASK	QC DOC	QA TASK	QA DOC	REFERENCED STANDARD	IBC REFERENCE
MATERIAL IDENTIFICATION (TYPE / GRADE)	O	-	O	-	AISC 341 CH. J, AWS D1.1, AND AWS D1.8	1705.2.1
WELDER IDENTIFICATION SYSTEM	O	-	O	-		
FIT-UP OF GROOVE (INCLUDING JOINT GEOMETRY) - JOINT PREPARATION - DIMENSION (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) - CLEANLINESS (CONDITION OF STEEL SURFACES) - TACKING (TACK WELD QUALITY AND LOCATION) - BACKING TYPE AND FIT (IF APPLICABLE)	P / O**	-	O	-		
CONFIGURATION AND FINISH TO ACCESS HOLES	O	-	O	-		
FIT-UP OF GROOVE (INCLUDING JOINT GEOMETRY) - DIMENSION (ALIGNMENT, GAPS OF ROOT) - CLEANLINESS (CONDITION OF STEEL SURFACES) - TACKING (TACK WELD QUALITY AND LOCATION)	P / O**	-	O	-		

VISUAL INSPECTION TASK DURING TO WELDING	QC TASK	QC DOC	QA TASK	QA DOC	REFERENCED STANDARD	IBC REFERENCE
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) - INTERMIX OF FILTER METALS AVOIDED UNLESS APPROVED	O	-	O	-	AISC 341 CH. J, AWS D1.1, AND AWS D1.8	1705.2.1
CONFIGURATION AND FINISH TO ACCESS HOLES	O	-	O	-		
CONTROL AND HANDLING OF WELDING CONSUMABLES - PACKAGING - EXPOSURE CONTROL	O	-	O	-		
ENVIRONMENTAL CONDITIONS - WIND SPEED WITHIN LIMITS - PRECIPITATION AND TEMPERATURE	O	-	O	-		
WELDING TECHNIQUES - INTERPASS AND FINAL CLEANING - EACH PASS WITHIN PROFILE LIMITATIONS - EACH PASS MEET QUALITY REQUIREMENTS	O	-	O	-		
NO WELDING OVER CRACKED TACKS	O	-	O	-		

VISUAL INSPECTION TASK AFTER TO WELDING	QC TASK	QC DOC	QA TASK	QA DOC	REFERENCED STANDARD	IBC REFERENCE
WELDS CLEANED	O	-	O	-	AISC 341 CH. J, AWS D1.1, AND AWS D1.8	1705.2.1
SIZE, LENGTH, AND LOCATION OF WELDS	P	-	P	-		
WELDS MEET VISUAL ACCEPTANCE CRITERIA - CRACK PROHIBITION - WELDS MEET VISUAL ACCEPTANCE CRITERIA - CRATER CROSS SECTION - WELD PROFILES AND SIZE - UNDERCUT - POROSITY	P	D	P	D		
PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED)	P	D	P	D		
BACKING REMOVED, WELD TABS REMOVED AND FINISHED, AND FILLET WELDS ADDED (IF REQUIRED)	P	D	P	D		
REPAIR ACTIVITIES	P	-	P	D		

** FOLLOWING PERFORMANCE OF THIS INSPECTION TASK FOR TEN WELDS TO BE MADE BY A GIVEN WELDER, WITH THE WELDER DEMONSTRATING UNDERSTANDING OF REQUIREMENTS AND POSSESSION OF SKILLS AND TOOLS TO VERIFY THESE ITEMS, THE PERFORM DESIGNATION OF THIS TASK SHALL BE REDUCED TO OBSERVE, AND THE WELDER SHALL PERFORM THIS TASK. SHOULD THE INSPECTOR DETERMINE THAT THE WELDER HAS DISCONTINUED PERFORMANCE OF THIS TASK, THE TASK SHALL BE RETURNED TO PERFORM UNTIL SUCH TIME AS THE INSPECTOR HAS RE-ESTABLISHED ADEQUATE ASSURANCE THAT THE WELDER WILL PERFORM THE INSPECTION TASKS LISTED.

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STATE OF WASHINGTON 43107 REGISTERED STRUCTURAL ENGINEER PROFESSIONAL ENGINEER
01/10/20

SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
STATION 65 4966 SOUTH 298TH STREET,
AUBURN, WA 98001

PROJECT # 262016.018
BID SET
ISSUED: 09/03/2021

REVISION SCHEDULE

SPECIAL INSPECTION SCHEDULES

SHEET:
S00.04

SPECIAL INSPECTION SCHEDULES

SEISMIC BOLTING

VISUAL INSPECTION TASK PRIOR TO WELDING	QC		QA		REFERENCED STANDARD	IBC REFERENCE
	TASK	DOC	TASK	DOC		
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL	O	-	O	-	AISC 341 CH. J	1705.12.1
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	-	O	-		
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	-	O	-		
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED FOR FASTENER ASSEMBLIES AND METHOD USED	P	D	P	D		
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	-	O	-		

VISUAL INSPECTION TASK DURING BOLTING	QC		QA		REFERENCED STANDARD	IBC REFERENCE
	TASK	DOC	TASK	DOC		
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHER (IF REQUIRED) ARE POSITIONED AS REQUIRED	O	-	O	-	AISC 341 CH. J	1705.12.1
JOINT BOUGHT TO THE SNUG TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	-	O	-		
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	-	O	-		
BOLTS ARE PRETENSIONED PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	-	O	-		

VISUAL INSPECTION TASK AFTER BOLTING	QC		QA		REFERENCED STANDARD	IBC REFERENCE
	TASK	DOC	TASK	DOC		
DOCUMENT ACCEPTED AND REJECTED CONNECTIONS	P	D	P	D	AISC 341 CH. J	1705.12.1

SEISMIC STEEL INSPECTION TASK

OTHER INSPECTION TASKS	QC		QA		REFERENCED STANDARD	IBC REFERENCE
	TASK	DOC	TASK	DOC		
RBS REQUIREMENTS, IF APPLICABLE - CONTOUR AND FINISH - DIMENSION TOLERANCES	P	D	P	D	AISC 341 CH. J	1705.12.1
PROTECTED ZONE - NO HOLES AND UNAPPROVED ATTACHMENTS MADE BY BY FABRICATOR OR ERECTOR, AS APPLICABLE	P	D	P	D		

SPECIAL INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD [1]	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS AND PLACEMENT	-	X	ACI 318: CH. 20, 25.2, 25.3, 26.6.1 - 26.6.3	1908.4
2. REINFORCING BAR WELDING:				
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	-	X	AWS D1.4 ACI 318: 26.6.4	-
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	-	X		
c. INSPECT ALL OTHER WELDS	X	-		
3. INSPECT ANCHORS CAST IN CONCRETE	-	X	ACI 318: 17.8.2	-
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS [2]				
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X	-	ACI 318: 17.8.2.4	-
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a	-	X	ACI 318: 17.8.2	-
5. VERIFY USE OF REQUIRED DESIGN MIX	-	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3, 1908.10
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	-	ASTM C 172 ASTM C 31 ACI 318: 26.4, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	-	X	ACI 318: 26.5.3 - 26.5.5	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR:				
a. APPLICATION OF PRESTRESSING FORCES	X	-	ACI 318: 26.10	-
b. GROUTING OF BONDED PRESTRESSING TENDONS	X	-		
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	-	X	ACI 318: 26.8	-
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	-	X	ACI 318: 26.11.2	-
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	-	X	ACI 318: 26.11.1.2 [2]	-

[1] WHERE APPLICABLE, SEE ALSO IBC SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.

[2] SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF WORK.

SEISMIC REQUIREMENTS FOR WOOD CONSTRUCTION

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. FIELD GLUING OF SEISMIC ELEMENTS	X		AF AND PA SDPWS - 2015	1705.12.2
2. NAILING, BOLTING, ANCHORING AND FASTENING OF WOOD SHEAR WALLS, WOOD DIAPHRAGM, COLLECTORS / DRAG STRUTS, BRACES, SHEAR PANELS AND HOLDOWNS		X	AF AND PA SDPWS - 2015	1705.12.2

NON-STRUCTURAL COMPONENTS
SEISMIC REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. DESIGNATED SEISMIC SYSTEM				
a. VERIFY THE LABEL, ANCHORAGE AND MOUNTING CONFORMS TO THE CERTIFICATE OF COMPLIANCE		X	ASCE 7 SECTION 13.2	1705.12.4
2. ARCHITECTURAL COMPONENTS				
a. ERECTION AND FASTENING OF b. EXTERIOR CLADDING [1,2]		X	-	1705.12.5
b. ERECTION AND FASTENING OF INTERIOR [3] AND EXTERIOR NON-BEARING WALLS [1,2]		X	-	1705.12.5
c. ERECTION AND FASTENING OF INTERIOR AND EXTERIOR VENEER [1,2]		X	-	1705.12.5
d. ANCHORAGE OF ACCESS FLOORS		X	-	1705.12.5.1
3. PLUMBING, MECHANICAL AND ELECTRICAL COMPONENTS				
a. ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY AND STANDBY POWER SYSTEMS		X	-	1705.12.6
b. ANCHORAGE OF OTHER ELECTRICAL EQUIPMENT		X	-	1705.12.6
c. INSTALLATION AND ANCHORAGE OF PIPING SYSTEM DESIGNED TO CARRY HAZARDOUS MATERIALS AND THERE ASSOCIATED MECHANICAL UNITS		X	-	1705.12.6
d. INSTALLATION AND ANCHORAGE OF DUCTWORK DESIGNED TO CARRY HAZARDOUS MATERIALS		X	-	1705.12.6
e. INSTALLATION AND ANCHORAGE OF VIBRATION ISOLATION SYSTEM WHERE THE NOMINAL CLEARANCE BETWEEN THE EQUIPMENT SUPPORT FRAME AND RESTRAIN IS 1/4 INCH OR LESS		X	-	1705.12.6
4. STORAGE RACK				
a. ANCHORAGE OF STORAGE RACKS 8 FEET OR GREATER IN HEIGHT		X	-	1705.12.7

[1] SPECIAL INSPECTION IS NOT REQUIRED FOR EXTERIOR CLADDING, INTERIOR AND EXTERIOR NONBEARING WALLS AND INTERIOR AND EXTERIOR VENEER 30 FEET OR LESS IN HEIGHT ABOVE GRADE (OR A WALKING SURFACE).

[2] SPECIAL INSPECTION IS NOT REQUIRED FOR EXTERIOR CLADDING AND INTERIOR AND EXTERIOR VENEER WEIGHING 5 PSF OR LESS.

[3] SPECIAL INSPECTION IS NOT REQUIRED FOR INTERIOR NON-BEARING WALLS WEIGHING 15 PSF OR LESS.

TESTS

CONCRETE

a. VERIFICATION OF SPECIFIED CONCRETE COMPRESSIVE STRENGTH, f'_c, IN ACCORDANCE WITH ACI 318-14 SECTION 26.12.

b. VERIFICATION OF SPECIFIED AIR CONTENT, SLUMP, AND TEMPERATURE IN ACCORDANCE WITH ACI 318-14 SECTION 26.12 AT TIMES FRESH CONCRETE IS SAMPLED.

c. VERIFICATION OF SPECIFIED SHOTCRETE COMPRESSIVE STRENGTH, f'_c, IN ACCORDANCE WITH IBC 1908.10 AT LEAST ONCE PER SHIFT, BUT NOT LESS THAN 50 CUBIC YARDS OF SHOTCRETE.

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SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
STATION 65 4966 SOUTH 298TH STREET,
AUBURN, WA 98001

PROJECT # 262016.018

BID SET

ISSUED: 09/03/2021

REVISION SCHEDULE

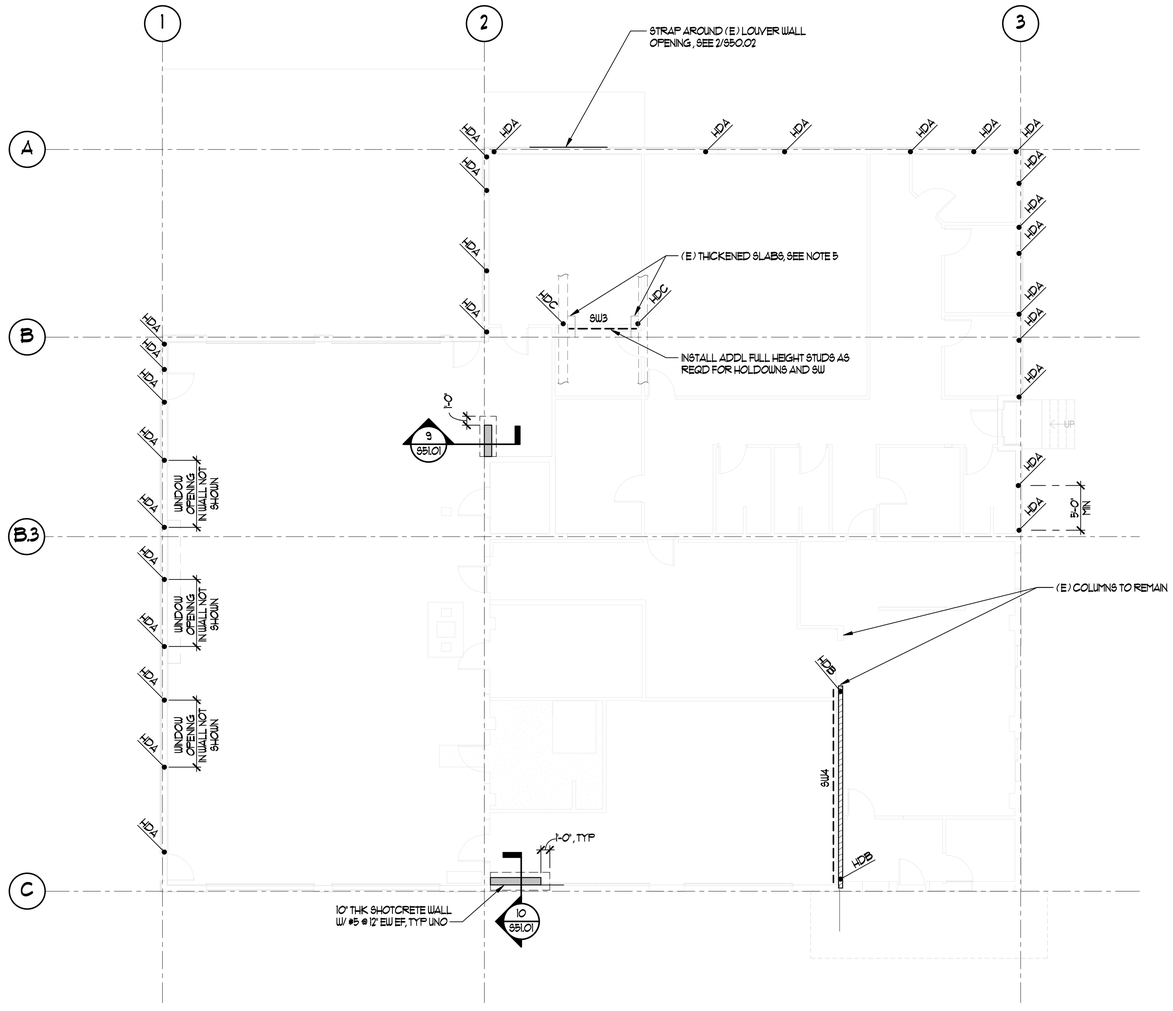
SPECIAL INSPECTION SCHEDULES

SHEET:

S00.05

NOTES:

1. COORDINATE MASONRY WALL OPENINGS FOR MECHANICAL WITH MECHANICAL DRAWINGS. PROVIDE OPENING HEADER PER 15/S51.02. LOCATE OPENINGS SO THEY DO NOT REQUIRE THE REMOVAL OF GROUTED CELLS WHERE POSSIBLE.
2. PATCH CONCRETE SLAB AT FOOTINGS AND AS REQUIRED FOR PLUMBING OR MECHANICAL OR ARCHITECTURAL PER 1/S50.01. COORDINATE LOCATIONS WITH ARCHITECTURAL AND PLUMBING. LOCATIONS NOT SHOWN.
3. DOWEL ALL SHOTCRETE WALLS TO EXISTING MASONRY WALLS PER 15/S51.01.
4. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF CMU INFILLS (NOT SHOWN). INFILL WALLS PER 20/S51.02.
5. CONTRACTOR TO VERIFY EXISTING 12" WIDE BY 12" DEEP THICKNED SLAB ARE PRESNT. INSTALL HOLDOWNS INTO EXISTING THICKENED SLABS. IF THICKENED SLAB IS PRESENT EXTEN FOOTING PER 5/S51.01 WHERE THICKENED SLABS ARE NOT PRESENT INSTALL 2'-6" x 2'-6" x 1'-6" DP CONCRETE FOOTING W/ (3) #5 EW BOTTOM CENTERED UNDER HOLDOWN POST.
6. WHERE NEW STUDS ARE REQUIRED FOR HOLDOWN POST PER 9/S50.02, IF HOLES OR NOTCHES ARE REQUIRED INSTALL SIMPSON HSS 2-2-SDS3 OR HSS2-3-SDS3 AS APPLICABLE.



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

LEGEND
(SEE S00.01 FOR ABBREVIATIONS)

- EXISTING MASONRY WALL THIS LEVEL
- SOLID GROUTED MASONRY WALLS
- SHOTCRETE WALLS
- SW — SHEAR WALLS THIS LEVEL, SEE 20/S50.02
- HOLDOWN PER SCHEDULE 8/S50.02 SEE NOTE 6

SHEET NOTE:

ALL DIMENSIONS, ELEVATION, AND LOCATIONS OF EXISTING STRUCTURAL COMPONENTS ARE BASED ON INFORMATION GATHERED FROM ORIGINAL DRAWINGS OR CURSORY FIELD MEASUREMENTS AND ARE SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL FIELD MEASURE AND VERIFY ALL CONDITIONS PRIOR TO COMMENCING ANY WORK. NOTIFY ENGINEER WHERE CONDITIONS VARY FROM THOSE SHOWN.

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AUBURN, WA 98001

PROJECT # 262016.018

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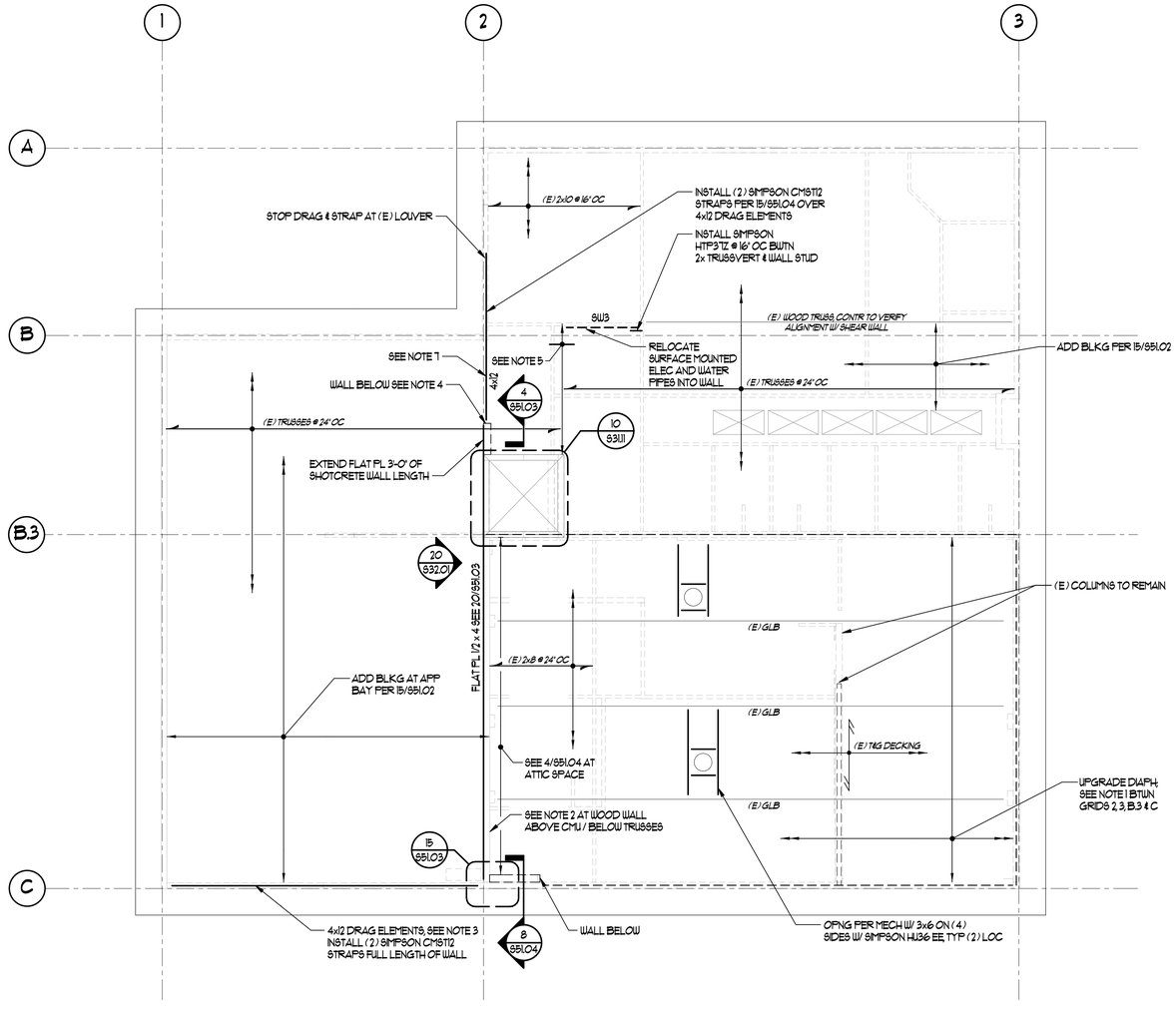
FOUNDATION AND FIRST FLOOR PLAN

SHEET:

S21.11

NOTES:

1. PROVIDE STRAPS AND CLIPS PER 3/S5.04.
2. AT PARTIAL HEIGHT WOOD STUD WALL (ABOVE CMU WALL / BELOW TRUSSES) NAIL EXISTING GWB STUD WALL W/ 10d NAILS @ 4" OC AT ALL EDGES. SEE 20/S5.03.
3. SEE 15/S5.04 SIMILAR FOR 4x12 AND STRAP INSTALLATION AND 15/S5.03 FOR CONNECTION TO CONCRETE WALL.
4. INSTALL CONCRETE WALL TO UNDERSIDE OF EXISTING TRUSS BOTTOM CHORDS. WHERE TRUSSES PASS OVER CONCRETE WALL INSTALL SIMPSON H9.
5. INTERSECTION OF ORGINAL TRUSSES AND PREVIOUS ADDITION TRUSSES. INSTALL SIMPSON LSTA24 BETWEEN (E) TRUSS TOP CHORDS AND (E) TRUSS BOT CHORDS TO TIE TOGETHER TRUSSES.
6. SEE 20/S3.11 FOR PARTIAL MEZZANINE PLAN BETWEEN GRIDS A AND B.
7. 4x TO BE INSTALLED FLUSH TO UNDERSIDE OF TRUSS BOTTOM CHORD. PROVIDE TRUSS TO 4x CONN PER 4/S5.03 AT ALL BOTTOM CHORDS.



ROOF FRAMING PLAN

1/8" = 1'-0"

LEGEND

(SEE S00.01 FOR ABBREVIATIONS)

- WALL BELOW PER S2.11
- EXISTING WALL BELOW
- ROOF PEAK
- PROVIDE ROOF TO MASONRY WALL ANCHORS PER 10/S5.04

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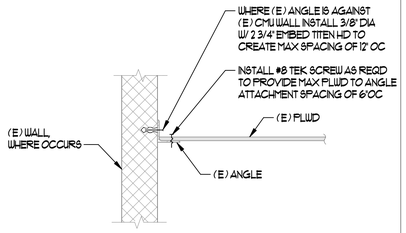
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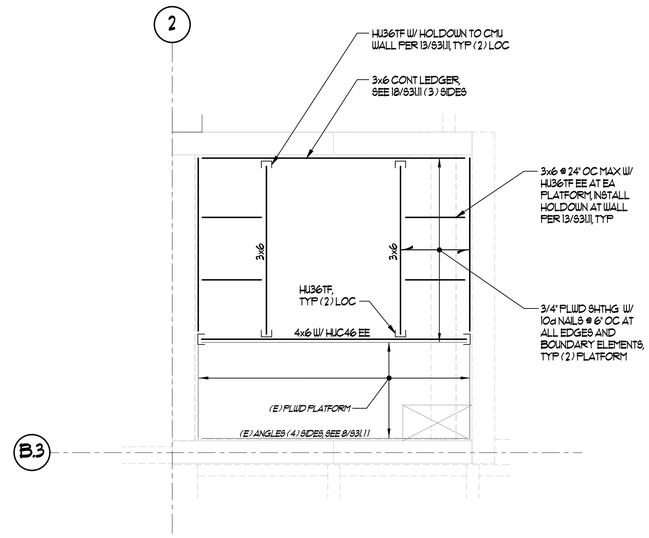
ROOF FRAMING PLAN

SHEET:

S21.13



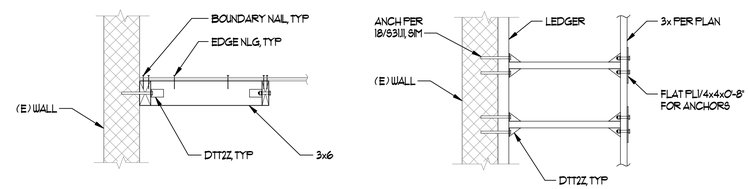
HOSE TOWER FLOOR UPGRADE 8
3/4" = 1'-0"



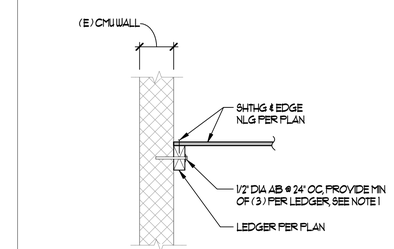
NOTE

1. NEW PLATFORM TO BE INSTALLED LEVEL WITH UPPER MOST PLATFORM.
2. EXISTING PLATFORM UPGRADES TO OCCUR AT ALL PLATFORM.

HOSE TOWER PARTIAL PLAN 10
1/2" = 1'-0"



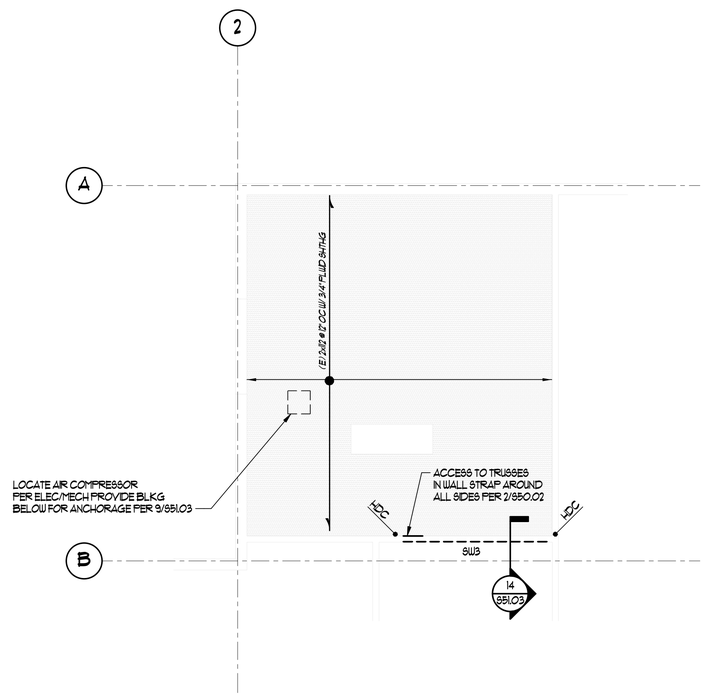
PLATFORM HOLDOWNS 13
3/4" = 1'-0"



NOTE:

1. AT GROUTED CELLS EMBED AND EPOXY ANCHOR BOLT 4" OC. AT HOLLOW CELLS INSTALL ANCHOR WITH HILTI - HY 70 AND HIT - IC INSERT.

HOSE TOWER LEDGER CONNECTION 18
3/4" = 1'-0"



MEZZANINE PARTIAL PLAN 20
1/4" = 1'-0"

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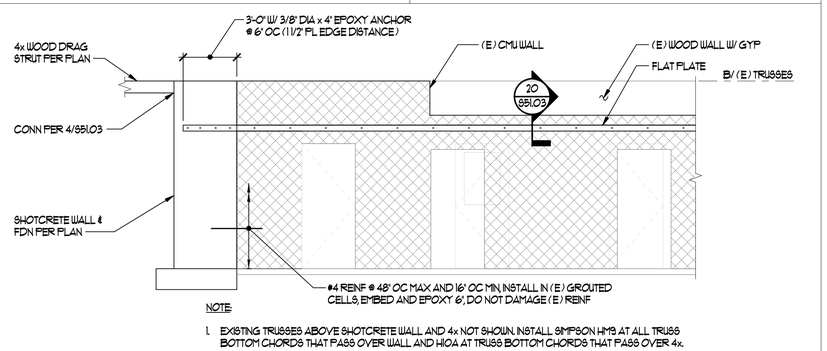
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REVISION SCHEDULE

MEZZANINE PARTIAL FRAMING PLAN AND DETAILS

SHEET:

S31.11



NOTE:

1. EXISTING TRUSSES ABOVE SHOTCRETE WALL AND 4x NOT SHOWN. INSTALL SIMPSON HM3 AT ALL TRUSS BOTTOM CHORDS THAT PASS OVER WALL AND H10A AT TRUSS BOTTOM CHORDS THAT PASS OVER 4x.

SHOTCRETE WALL AND FOUNDATION ELEVATION 20

1/4" = 1'-0"

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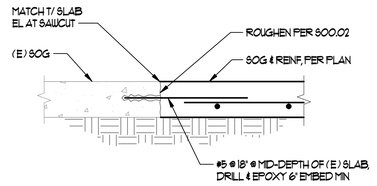
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ELEVATIONS

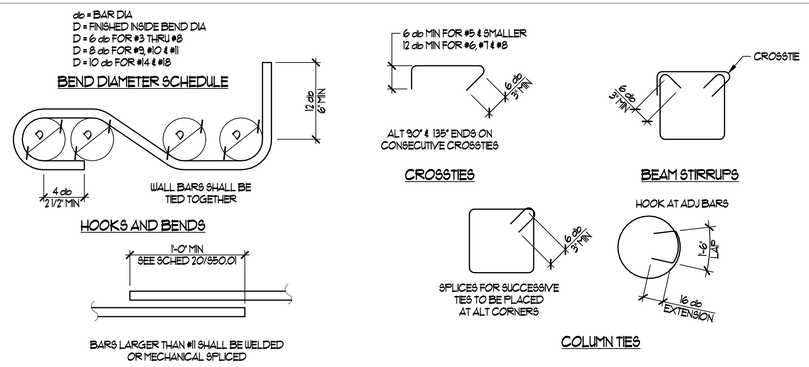
SHEET:

S32.01



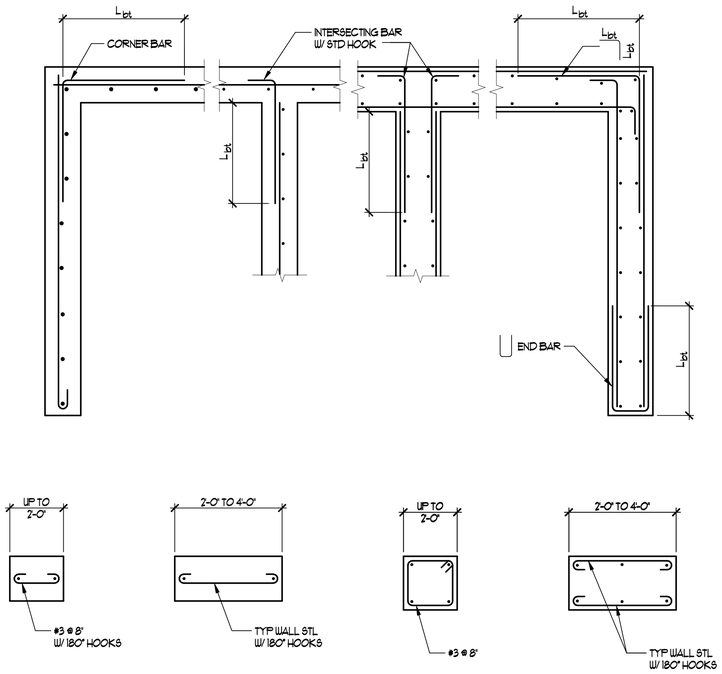
SOG TO EXISTING CONNECTION 1

NTS



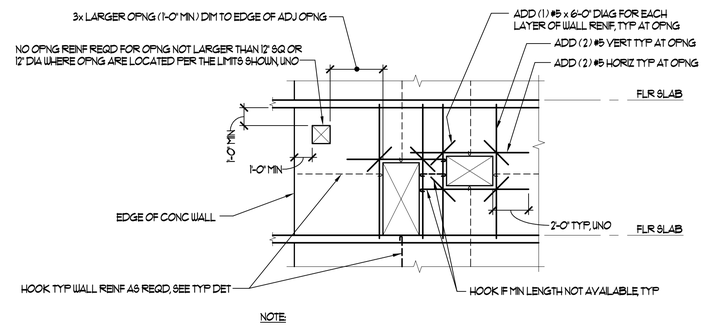
TYPICAL REINFORCING BAR BEND AND LAP DETAILS 3

NTS



TYPICAL CONCRETE WALL PLAN DETAILS 10

NTS

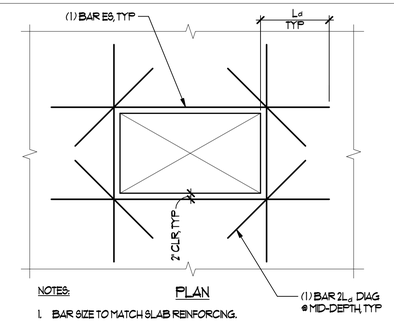


NOTE:

1. TYPICAL WALL REINFORCING NOT SHOWN FOR CLARITY, EXCEPT AS NOTED.

CONCRETE WALL ELEVATION DETAIL 8

NTS



NOTES:

1. BAR SIZE TO MATCH SLAB REINFORCING.
2. IF TWO LAYERS OF STEEL IN SLAB, PROVIDE OPENING REINFORCEMENT FOR EACH LAYER.

PLAN

TYPICAL REINFORCING AT WALL OPENING 13

NTS

Fc = 4,000 PSI / 4,500 PSI								
SIZE	L_d (2,3,4) & L_{cl} (2,3,4)	L_b (2,3,4)	L_{dh}	L_c	L_{cl}	L_{ds} (4,5,6)	L_{bs} (4,5,6)	L_{dhs}
3	15	19	8	8	12	15	20	6
4	19	25	10	10	15	19	24	8
5	24	31	12	12	19	23	30	10
6	29	37	15	15	23	28	36	11
7	42	54	17	17	27	32	42	13
8	48	62	19	19	30	37	48	15
9	54	70	22	22	34	42	54	17
10	61	79	25	25	39	47	61	19
11	67	87	27	27	43	52	67	21

Fc = 6,000 PSI								
SIZE	L_d (2,3,4) & L_{cl} (2,3,4)	L_b (2,3,4)	L_{dh}	L_c	L_{cl}	L_{ds} (4,5,6)	L_{bs} (4,5,6)	L_{dhs}
3	12	16	6	8	12	15	20	6
4	16	21	8	9	15	15	20	6
5	20	26	10	12	19	19	25	8
6	24	31	12	14	23	23	29	9
7	3/4	45	14	16	27	27	34	11
8	33	51	16	18	30	30	39	12
9	44	57	18	21	34	34	44	14
10	50	64	20	23	39	38	50	16
11	55	71	22	26	43	42	55	17

NOTES:

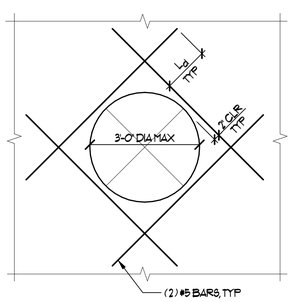
1. USE THE LENGTHS IN THIS SCHEDULE, UNLESS NOTED OTHERWISE.
2. FOR BARS WITH LOW COVER OR SPACING, INCREASE LENGTH BY 50%. IF BARS ARE ENCLOSED IN STIRRUPS OR TIES, INCREASE APPLIES WHEN BAR COVER OR CLEAR BAR SPACING IS LESS THAN d_b. IF BARS ARE NOT ENCLOSED IN STIRRUPS OR TIES, INCREASE APPLIES WHEN BAR COVER IS LESS THAN d_b OR CLEAR BAR SPACING IS LESS THAN $2d_b$.
3. FOR TOP BARS INCREASE LENGTH BY 30%. A TOP BAR IS A HORIZONTAL BAR WITH MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW IT.
4. FOR EPOXY COATED REINFORCING, INCREASE STRAIGHT BAR LENGTHS BY 50% AND HOOKED BAR LENGTHS BY 20%.
5. FOR PORTIONS NOT WITHIN A CONFINED COLUMN OR BOUNDARY ZONE CORE, INCREASE LENGTH BY 60%.
6. FOR SEISMIC TOP BARS INCREASE LENGTH BY 40%. SEISMIC TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW.

ABBREVIATIONS:

d_b	BAR DIAMETER
L_{cl}	TENSION DEVELOPMENT LENGTH
L_{clt}	TENSION DEVELOPMENT LENGTH FOR A TOP BAR (SEE NOTE 3)
L_a	CLASS A LAP SPLICE LENGTH
L_{at}	CLASS A LAP SPLICE LENGTH FOR A TOP BAR (SEE NOTE 3)
L_b	CLASS B LAP SPLICE LENGTH
L_{bt}	CLASS B LAP SPLICE LENGTH FOR A TOP BAR (SEE NOTE 3)
L_{dh}	TENSION DEVELOPMENT LENGTH FOR A STANDARD HOOK
L_c	COMPRESSION DEVELOPMENT LENGTH
L_{cl}	COMPRESSION LAP SPLICE LENGTH
L_{ds}	SEISMIC TENSION DEVELOPMENT LENGTH
L_{dts}	SEISMIC TENSION DEVELOPMENT LENGTH FOR A TOP BAR (SEE NOTE 6)
L_{bs}	SEISMIC LAP SPLICE LENGTH
L_{bts}	SEISMIC LAP SPLICE LENGTH FOR A TOP BAR (SEE NOTE 6)
L_{dhs}	SEISMIC DEVELOPMENT LENGTH FOR A STANDARD HOOK

REINF BAR DEVELOPMENT & SPLICE LENGTH TABLES 20

NTS



NOTES:

1. HORIZONTAL AND VERTICAL WALL REINFORCING NOT SHOWN FOR CLARITY.
2. TERMINATE INTERRUPTED HORIZONTAL AND VERTICAL REINFORCEMENT WITH A STANDARD HOOK.
3. REFER TO CIVIL AND MECHANICAL DRAWINGS FOR LOCATIONS OF PIPE PENETRATIONS.

REINFORCING AT PIPE PENETRATION IN WALL 18

NTS

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01/10/20

SOUTH KING FIRE & RESCUE FACILITY IMPROVEMENTS

STATION 65 4966 SOUTH 298TH STREET,
AUBURN, WA 98001

PROJECT # 262016.018

BID SET

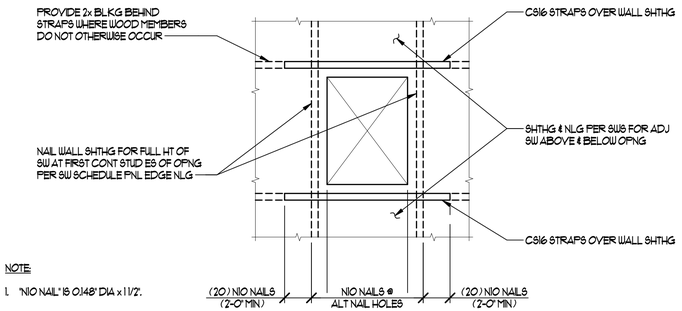
ISSUED: 09/03/2021

REVISION SCHEDULE

TYPICAL CONCRETE DETAILS

SHEET:

S50.01

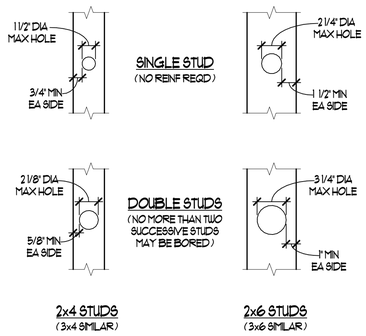


NOTE:

1. "NIO NAIL" IS 0.148" DIA x 1 1/2".

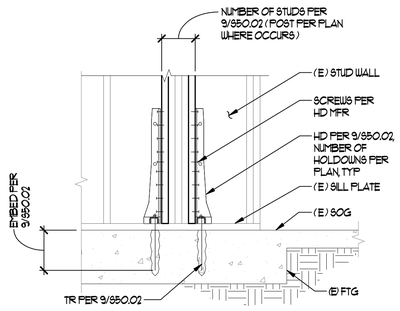
STRAPS AT WINDOWS AND DOORS 2

NTS



HOLES ALLOWED THRU STUDS 3

NTS

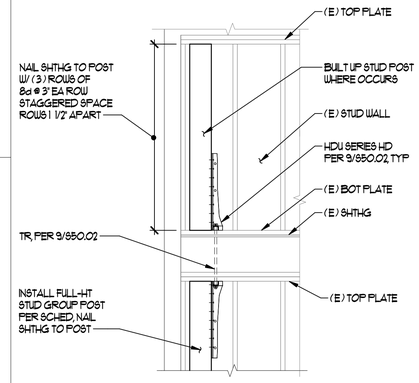


NOTE:

1. EXISTING WALL SHEATHING NOT SHOWN FOR CLARITY.

DOUBLE HOLDOWN DETAIL 4

NTS

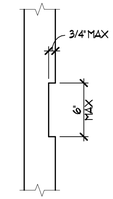


NOTE

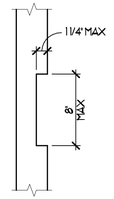
1. WALL SHEATHING NOT SHOWN FOR CLARITY.

HOLDOWN AT MEZZANINE 10

1/2" = 1'-0"



2x4 STUDS
(3x4 SIMILAR)



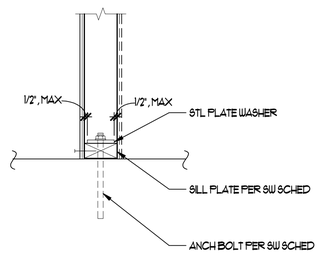
2x6 STUDS
(3x6 SIMILAR)

NOTE:

1. NOTCHES SHALL NOT OCCUR IN MORE THAN (2) SUCCESSIVE STUDS.

ALLOWABLE NOTCHES IN STUDS 6

NTS



SILL PLATE ANCHORS 7

1" = 1'-0"

HOLDOWN SCHEDULE

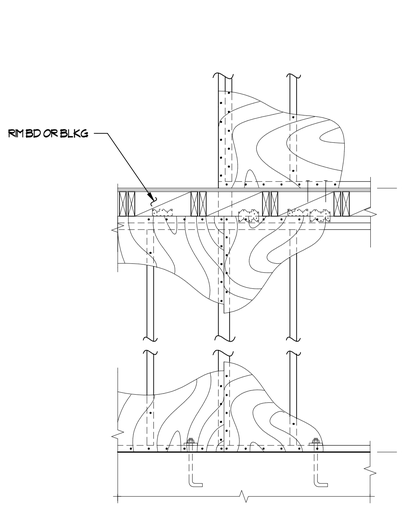
MARK	MODEL (NOTE 1)	WOOD POST, UNO PER PLAN OR DETAILS (NOTES 2 & 6)	2x POST NAILING (NOTE 3)	THREADED ROD AT WOOD FLOOR AND CONCRETE (NOTES 4 AND 5)		
				TR DIA	TR CONCRETE EMBED	
					(E) FDN WALL	(E) FOOTING
HDA	HDU4-SDS2.5	(2) 2x	(2) ROWS 12d @ 6'OC	5/8"	6'	6'
HDB	HDU8-SDS2.5	(2) 2x	(2) ROWS 12d @ 6'OC	5/8"	6'	6'
HDC	(2) HDU11-SDS2.5	(5) 2x	(2) ROWS 12d @ 4'OC	1"	9'	9'

NOTES:

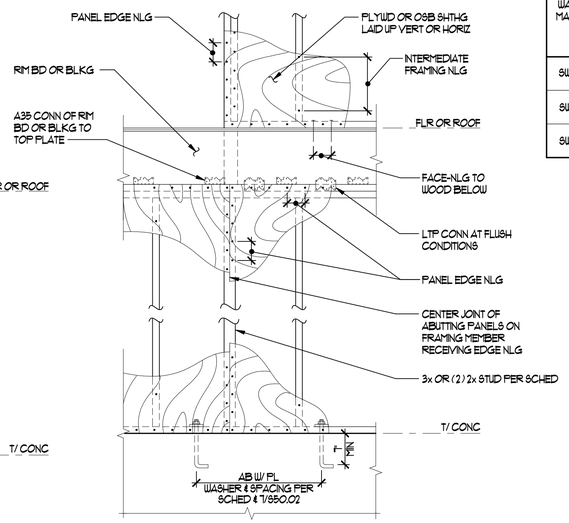
1. HOLDOWN MODELS REFER TO SIMPSON STRONG TIE CATALOG CALLOUTS. INSTALL FASTENERS PER HOLDOWN MANUFACTURER.
2. SIZES LISTED IN THE SCHEDULE ARE FOR THE NOMINAL THICKNESS OF WOOD POST PERPENDICULAR TO THE HOLDOWN. WIDTH OF THE POST IS THE SAME AS THE WIDTH OF THE WALL IN WHICH THE HOLDOWN IS LOCATED. INSTALL ADDITIONAL STUDS FULL WALL HEIGHT AS REQUIRED WHERE MINIMUM IS NOT PRESENT. HOLDOWN MAY BE INSTALLED ON EITHER SIDE OF POST FOR SINGLE HOLDOWNS.
3. FASTEN TOGETHER 2x MEMBERS OF POST AT THE SPECIFIED SPACING. "12d" NAIL IS 0.148" DIA x 3 1/4" AT (3) 2x POSTS, FASTEN SECOND TO FIRST STUD AND THIRD TO SECOND STUD AT THE SPECIFIED SPACING.
4. "TR" IS A CARBON STEEL STUD (e.g. THREADED ROD) COMPLYING WITH ASTM A307, GRADE A.
5. INSTALL A CARBON STEEL HEX NUT COMPLYING WITH ASTM A563, GRADE A, AT EACH BOLT.
6. NAIL PLYWOOD OR OSB SHEATHING TO HOLDOWN STUDS OR POST WITH SCHEDULED PANEL EDGE NAILING. STAGGER NAILS SO THAT EACH STUD IS NAILED AT SOLID HOLDOWN POSTS, NAIL SHEATHING WITH (2) ROWS OF PANEL EDGE NAILING.

HOLDOWN SCHEDULE 9

NTS



AT OPEN-WEB WOOD TRUSSES



TYPICAL SHEAR WALL NAILING CONVENTION

SHEAR WALL SCHEDULE

WALL MARK	WALL SHEATHING	PANEL EDGE NAILING	FRAMING AT ADJ PANEL EDGES	(2) 2x FRAMING NAILING	MIN RIM BOARD THICKNESS	BOTTOM PLATE ATTACHMENT	TOP PLATE CONNECTION		FDN SILL PLATE (P.T.)	SILL PL AR / BRG PL TR	TITEN BOLTS ALTERNATE TO AR FOR SILL PL ANCHORAGE	LRFD SHEAR (PLF)
							A35	LTP4				
	NOTES #1, #3	NOTE #2	NOTES #5, #6	NOTE #6	-	NOTES #3, #12	NOTES #4, #11	NOTES #4, #11	NOTE #3	NOTE #3	NOTE #3	
SW1-6	19/32" (1) SIDE	0.148 x 2 1/2 @ 6" OC	2x	-	1 1/4"	0.148 x 3 1/2 @ 5" OC	@ 2'-0" OC	@ 1'-3" OC	2x	5/8" DIA @ 4'-0" OC	3/4" DIA TITEN @ 4'-0" OC	544
SW1-4	19/32" (1) SIDE	0.148 x 2 1/2 @ 4" OC	3x ((2) 2x)	0.148 x 3 1/4 @ 6" OC	1 3/4"	(2) ROWS 0.148 x 3 1/2 @ 7" OC	@ 1'-8" OC	@ 10" OC	3x	5/8" DIA @ 3'-0" OC	3/4" DIA TITEN @ 2'-9" OC	816
SW1-3	19/32" (1) SIDE	0.148 x 2 1/2 @ 3" OC	3x ((2) 2x)	0.148 x 3 1/4 @ 4 1/2" OC	1 3/4"	(2) ROWS 0.148 x 3 1/2 @ 5" OC	@ 1'-0" OC	@ 7" OC	3x	5/8" DIA @ 2'-4" OC	3/4" DIA TITEN @ 2'-0" OC	1064

SHEAR WALL NOTES:

1. STRUCTURAL PANEL WALL SHEATHING SHALL BE APA RATED ORIENTED STRAND BOARD (OSB) SHEATHING, EXP 1, PANEL SPAN RATING 24/16. OSB PANELS MAY BE INSTALLED VERTICALLY OR HORIZONTALLY.
2. THE SPECIFIED PANEL EDGE NAILING IS REQUIRED AT ALL PANEL EDGES AND ENDS. INSTALL 2x SOLID BLOCKING AT ALL UNSUPPORTED PANEL EDGES AND ENDS WITH MINIMUM 2x SOLID BLOCKING, UNO (SEE NOTES 5 AND 6). MAXIMUM SPACING OF NAILING AT INTERMEDIATE FRAMING MEMBERS IS 12" OC. SPACE NAILS MINIMUM 3/8" FROM EDGES AND ENDS OF WALL PANELS, WALL STUDS, TOP AND BOTTOM PLATES, AND BLOCKING.
3. TOP AND BOTTOM PLATE NAILS ARE 0.148" DIA x 3 1/4". SPACE BOTTOM PLATE NAILS 1/2" MINIMUM FROM EDGES AND 2" MINIMUM FROM ENDS OF THE BLOCKING (OR JOIST OR RIM BOARD) BELOW. INSTALL THE TOP AND BOTTOM PLATE NAILS AT THE TOP AND BOTTOM, RESPECTIVELY, OF THE SCHEDULED SHEAR WALL AT THE SPECIFIED SPACING. INSTALL THE BOTTOM PLATE NAILS SO THAT THEY ARE CENTERED IN THE BLOCKING (OR JOIST OR RIM BOARD) BELOW.
4. SEE WOOD DETAILS FOR LOCATION OF TOP PLATE CONNECTIONS. INSTALL AT THE TOP OF THE SCHEDULED SHEAR WALL AT THE SPECIFIED SPACING. "N8 NAIL" IS 0.131" DIA x 1 1/2" LONG. "N10 NAIL" IS 0.148" DIA x 1 1/2" LONG
5. WHERE 3x WALL STUDS ARE SPECIFIED, INSTALL 3x WALL STUDS AT ADJOINING PANEL EDGE AND ENDS. INSTALL 3x SOLID BLOCKING AT ALL UNSUPPORTED PANEL EDGES AND ABUTTING PANEL EDGES. STAGGER PANEL EDGES NAILING 1/2" AT ALL WALL STUDS, PLATES AND BLOCKING. MAINTAIN SUFFICIENT EDGE DISTANCE TO AVOID SPLITTING OF WOOD.
6. (2) 2x WALL STUDS ARE PERMITTED TO BE SUBSTITUTED FOR 3x STUDS WHERE SPECIFIED IN (). INSTALL (2) 2x WALL STUDS AT ADJOINING PANEL EDGES AND ENDS. FASTEN STUDS TOGETHER WITH 0.148" DIA x 3 1/4" NAILS AT THE SPECIFIED SPACING. WHERE (2) ROWS OF NAILS ARE SPECIFIED, PLACE THE ROWS 1 1/2" APART. SEE WSUM-1. PROVIDE ALL UNSUPPORTED PANEL EDGES AND ENDS WITH MINIMUM 3x SOLID BLOCKING. (2) 2x SOLID BLOCKING PERMITTED PROVIDED THE 2x BLOCKS ARE FASTENED TOGETHER AS SPECIFIED ABOVE FOR THE (2) 2x STUDS. STAGGER PANEL EDGE NAILING 1/2" AT ALL WALL STUDS, PLATES AND BLOCKING. MAINTAIN SUFFICIENT EDGE DISTANCE TO AVOID SPLITTING OF WOOD.
7. NOT USED
8. NAIL SHEATHING AT INTERMEDIATE FRAMING WITH SAME SIZE NAILS AS PANEL EDGE NAILING @ 12" OC.
9. AT SILL PLATES, EMBED ANCHOR RODS A MINIMUM OF 7" INTO CONCRETE, SEE DETAILS. INSTALL 3"x3"x0.229" STEEL PLATE WASHER BETWEEN THE SILL PLATE AND NUT AT EACH ANCHOR ROD. LOCATE ANCHOR ROD AND PLATE WASHER SUCH THAT EDGE OF PLATE WASHER IS 1/2" MAX AWAY FROM EDGE OF SILL PLATE RECEIVING PANEL EDGE NAILING FROM SHEAR WALL SHEATHING. HOLE IN PLATE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH A MAXIMUM WIDTH 3/16" > BOLT DIAMETER AND MAXIMUM LENGTH OF 1 3/4", PROVIDED STANDARD CUT WASHER INSTALLED BETWEEN PLATE WASHER AND NUT.
10. INSTALL L5L BLOCKING/RIM BOARD FOR TOP PLATE CONNECTION. SEE WOOD DETAILS.
11. TOP PLATE CONNECTIONS IDENTIFIED AS "A35", AND "LTP4" ARE MANUFACTURED BY SIMPSON STRONG-TIE. SEE GENERAL STRUCTURAL NOTES FOR FURTHER INFORMATION.
12. WHERE (2) ROWS OF NAILS ARE SPECIFIED, PLACE THE ROWS 1 1/2" APART. 3 1/2" L5L BLOCKING/RIM BOARD IS REQUIRED.

SHEAR WALL SCHEDULE 20

NTS

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01/10/20

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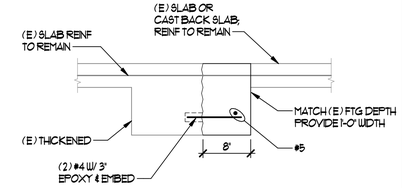
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REVISION SCHEDULE

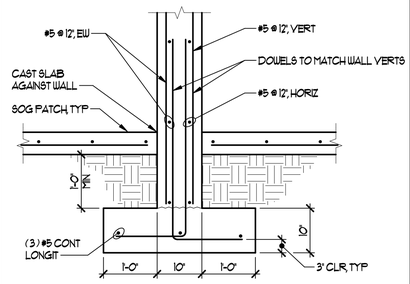
TYPICAL WOOD DETAILS

SHEET:

S50.02

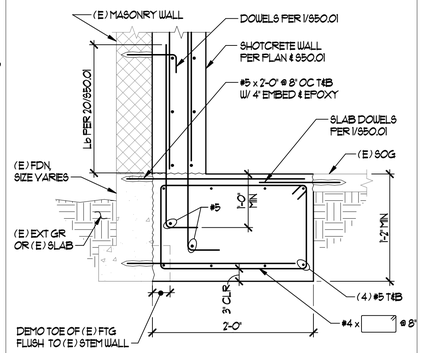


FOOTING EXTENSION 5
1" = 1'-0"

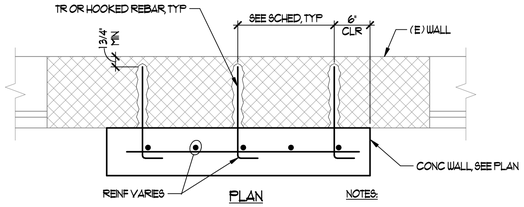


NOTE:
1. DOWEL HORIZONTAL FOUNDATION BARS TO EXISTING FOOTING. EPOXY AND EMBED 5" TYPICAL.

CONCRETE WALL FOOTING SECTION 9
3/4" = 1'-0"



SHOTCRETE WALL FOOTING 10
NTS



PLAN

SCHEDULE			
(E) WALL	MAX SPACING (SEE NOTE 2)	MIN EMBED	BAR SIZE
FILLED CMU	1'-0" HORIZ 2'-0" VERT	4"	5/8" DIA TR OR #5 REBAR
HOLLOW CMU	1'-0" HORIZ 2'-0" VERT	PER NOTE 3	5/8" DIA TR

NOTES:
1. THIS OCCURS AT ALL CONCRETE AND MASONRY WALLS.
2. SPACING NOTED IS MAXIMUM. SPACING MAY NEED TO DECREASE TO MATCH WALL SPACING TO ENGAGE HOOKS / THREADED RODS WITH WALL REINFORCING.
3. AT HOLLOW CMU CELLS INSTALL ANCHOR W/ HILTI - HY 70 AND HIT-IC INSERT.
4. DRILLING METHODS SHALL BE SELECTED TO AVOID DAMAGES TO WALL

CONCRETE WALL DETAIL AND SCHEDULE 15
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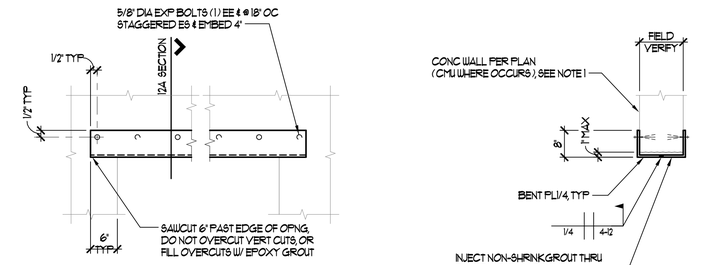
ISSUED: 09/03/2021

REVISION SCHEDULE

CONCRETE SECTIONS AND DETAILS

SHEET:

S51.01



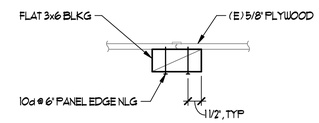
12A SECTION

NOTES:

1. AT CMU WALL VERIFY CELLS ARE FULLY GROUTED PRIOR TO SAWCUTTING OPENING. GROUT AROUND OPENING PER IT/551.02 SIMILAR WHERE CMU IS NOT FULLY GROUTED.
2. AT SIMILAR CONDITION INSTALL SINGLE L6x6x3/8 ANGLE. VERTICAL LEG SHALL BE INSTALLED FLUSH ON INTERIOR WALL FACE.

STEEL HEADER ABOVE NEW OPENING 5

NTS

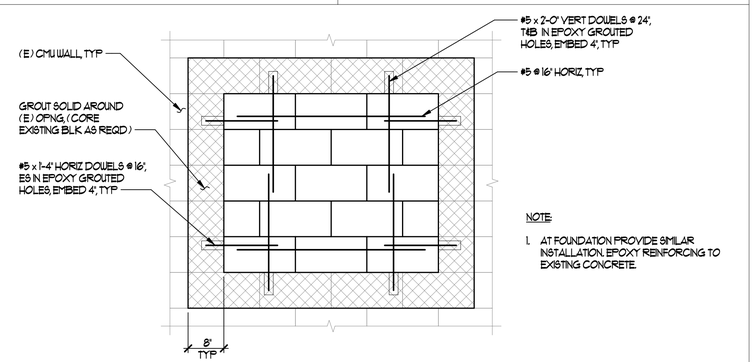


NOTE:

1. INSTALL BLOCKING AT ALL PANEL EDGES. BLOCKING TO BE INSTALLED SNUG BETWEEN EXISTING TRUSSES.

DIAPHRAGM BLOCKING 15

1 1/2" = 1'-0"



NOTE:

1. AT FOUNDATION PROVIDE SIMILAR INSTALLATION, EPOXY REINFORCING TO EXISTING CONCRETE.

TYPICAL MASONRY INFILL 20

NTS

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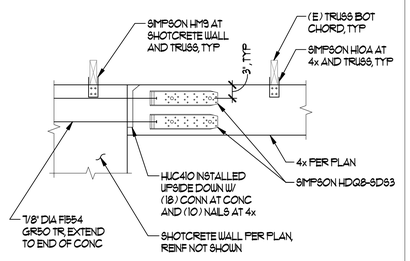
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REVISION SCHEDULE

SECTIONS AND DETAILS

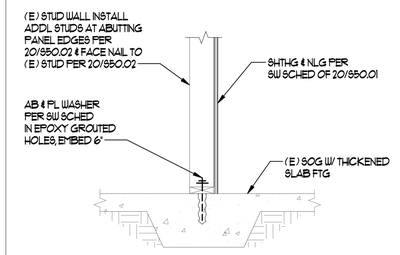
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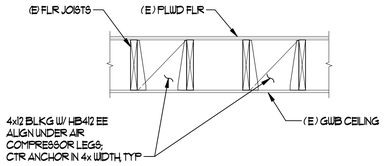
4x TO CONCRETE WALL 4

3/4" = 1'-0"



SHEAR WALL STRENGTHENING 5

3/4" = 1'-0"

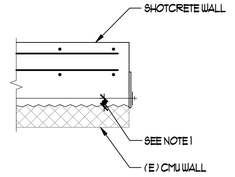


NOTE:

1. REMOVE AND REINSTALL NEW PLYWOOD FLOOR AND GWB CEILING AS REQUIRED FOR BLOCKING INSTALLATION. THICKNESS AND ANCHOR AND SPACING SHALL MATCH THAT REMOVED.

FLOOR BLOCKING 9

3/4" = 1'-0"

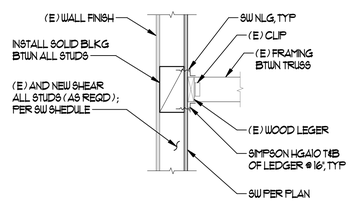


NOTES:

1. CHIP OUT CONCRETE IN BOND BEAM TO PROVIDE 1 1/2" CLEAR DISTANCE BEHIND ANCHOR ROD.
2. EXISTING REINFORCING IN CMU WALL NOT SHOWN. DO NOT DAMAGE EXISTING REINFORCING.

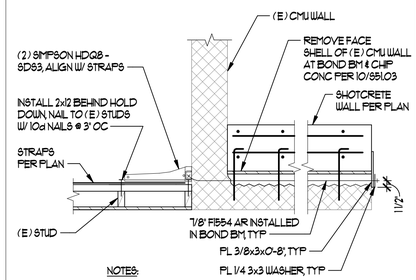
CONCRETE CHIP OUT 10

3/4" = 1'-0"



SHEARWALL SECTION 14

3/4" = 1'-0"

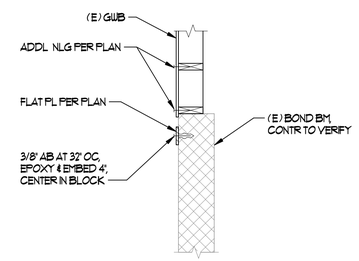


NOTES:

1. LIMITED CONCRETE TO CMU DOWELS PER 15/S51.01 SHOWN.
2. EXISTING REINFORCING NOT SHOWN.

PLAN REVIEW 4x DRAG TO CMU WALL 15

3/4" = 1'-0"



FLAT PLATE DRAG STRUT TO WALL 20

3/4" = 1'-0"

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PROJECT # 262016.018

BID SET

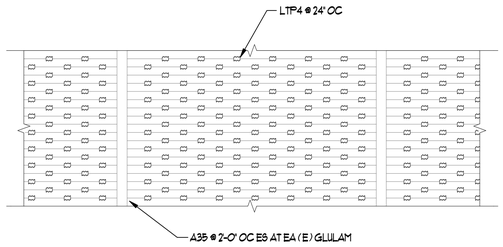
ISSUED: 09/03/2021

REVISION SCHEDULE

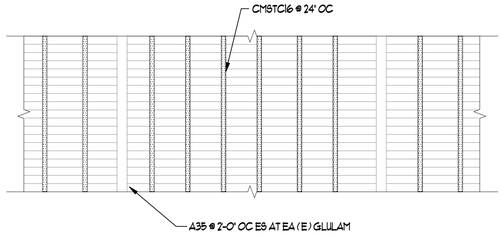
WOOD SECTIONS AND DETAILS

SHEET:

S51.03



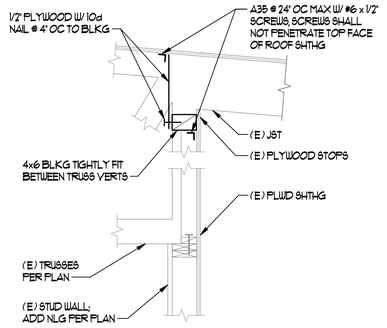
CLIP OPTION



STRAP OPTION

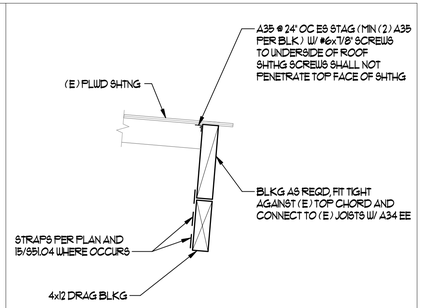
REFLECTED PLAN VIEW DECKING CLIPS 3

1/4" = 1'-0"



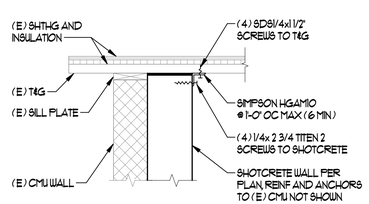
ROOF FRAMING DETAIL 4

3/4" = 1'-0"



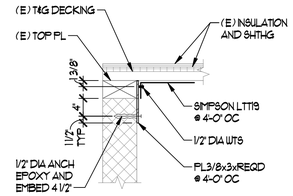
STRUT BLOCKING CONNECTION 5

3/4" = 1'-0"

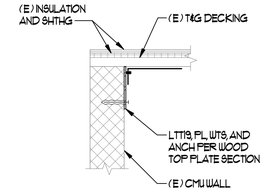


WALL TO DECKING SECTION 8

3/4" = 1'-0"



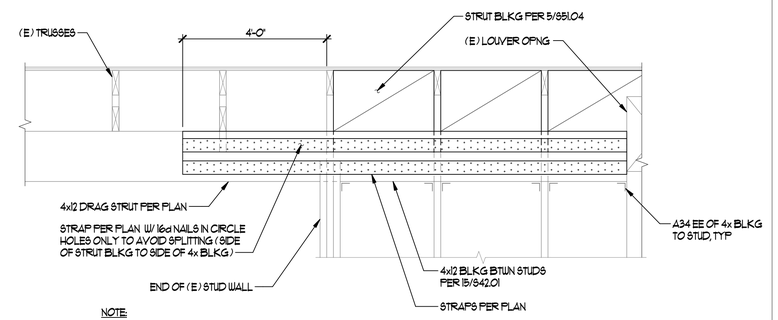
WOOD TOP PLATE



NO TOP PLATE

ROOF TO MASONRY WALL ANCHOR 10

3/4" = 1'-0"



NOTE:

1. AT SIMILAR LOCATION ALONG GRID C, 4x12 AND STRAPS SHALL EXTEND FULL WOOD WALL LENGTH FROM GRIDS 1 TO 2. LOCATION IS IN ATTIC/ROOF CRAWL SPACE AND ROOF LINE IS SLOPED.

STRUT BLOCKING TO SHEAR WALL CONNECTION 15

NTS

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STATE OF WASHINGTON · CHRISTOPHER MICHAEL SMITH · 43107 · STRUCTURAL ENGINEER · PROFESSIONAL ENGINEER

01/10/20

SOUTH KING FIRE & RESCUE FACILITY IMPROVEMENTS

STATION 65 4966 SOUTH 298TH STREET, AUBURN, WA 98001

PROJECT # 262016.018

BID SET

ISSUED: 09/03/2021

REVISION SCHEDULE

CONNECTION DETAILS

SHEET:

S51.04

MECHANICAL SYMBOLS LEGEND

HYDRONIC SYSTEM LABELS

- PIPE BREAK (CONTINUATION)
- HYDRONIC SUPPLY
- HYDRONIC RETURN
- DIRECTION OF FLOW
- CAP
- HEAT TRACED PIPING

HYDRONIC VALVES AND SPECIALTIES

- 2-WAY ELECTRIC CONTROL VALVE
  F.O. FAIL OPEN
  F.C. FAIL CLOSED
- 3-WAY ELECTRIC CONTROL VALVE
- 4-WAY CONTROL VALVE

DUCTWORK LABELS

- INTERNALLY LINED DUCT
- HIDDEN DUCT
- 16X12 — DUCT (1ST DIMENSION SIDE SHOWN, 2ND DIMENSION OTHER SIDE)
- REMOVE DUCT, PIPE OR MECH. EQUIPMENT
- FLEX DUCT
- RECTANGULAR SUPPLY DUCT OUT OF PAGE
- RECTANGULAR SUPPLY DUCT INTO PAGE
- SUPPLY DIFFUSER
- OUTSIDE AIR DIFFUSER
- RECTANGULAR RETURN DUCT OUT OF PAGE
- RECTANGULAR RETURN DUCT INTO PAGE
- OR — RETURN OR EXHAUST GRILLE
- TURNING VANES
- STRAIGHT TAP
- TAPERED FITTING
- BELL MOUTH FITTING
- CONICAL FITTING
- 45 DEG. ANGLE TAP
- ROUND ELBOW OUT OF PAGE
- ROUND ELBOW INTO PAGE
- ROUND DUCT OUT OF PAGE
- ROUND DUCT INTO PAGE
- ROUND DUCT BREAK (CONTINUATION)
- RECTANGULAR DUCT BREAK (CONTINUATION)
- FLEX CONNECTION

REFERENCE SYMBOLS

- M-1 — DETAIL NUMBER / SHEET
- FLAG NOTE
- 1 — REVISION TAG
- AHU-1 — MECHANICAL EQUIPMENT
- D / 0 — DIFFUSER/GRILLE TYPE / CFM
- 1 — SECTION NUMBER / SHEET NUMBER

LIFE SAFETY SYMBOLS

- CEILING RADIATION DAMPER
- OR — COMBINATION SMOKE/FIRE DAMPER
- HORIZONTAL SMOKE DAMPER
- FIRE DAMPER

CONTROL SYMBOLS

- VOLUME DAMPER
- M — MOTORIZED CONTROL DAMPER
- T — THERMOSTAT IN DUCT
- REMOTE OPERATED VOLUME DAMPER
- BACKDRAFT DAMPER
- PRESSURE INDEPENDENT VOLUME DAMPER (TROX VFL)
- PRESSURE INDEPENDENT VOLUME CONTROLLER (TROX VFC)
- PRESSURE INDEPENDENT VOLUME CONTROLLER W/ ACTUATOR (TROX VFC EØ / MØ)
- T — THERMOSTAT, MOUNT @ 4'-0" A.F.F.
- S — SENSOR
- CO — GEF-1 — CARBON MONOXIDE DETECTOR WITH FAN INDICATED
- CO2 — CARBON DIOXIDE DETECTOR

PIPING SYSTEM LABELS

- G — NATURAL GAS OR PROPANE
- BALL VALVE MANUAL LEVER
- BUTTERFLY VALVE MANUAL LEVER
- BUTTERFLY GEAR VALVE
- GLOBE VALVE MANUAL LEVER
- BALANCE VALVE (CIRCUIT SETTER)
- BALANCE VALVE (PRESSURE INDEPENDENT)
- PIPE TO DRAIN
- PRESSURE SAFETY VALVE
- AAV — AUTOMATIC AIR VENT
- MAV — MANUAL AIR VENT
- WYE STRAINER
- WYE STRAINER WITH VALVE AND HOSE END CAP
- HEAT TRACE PIPING
- HOSE END AND CAP
- EXPANSION LOOP

HVAC GENERAL NOTES

1. THESE PLANS ARE SCHEMATIC AND DO NOT SHOW EXACT ROUTING OR EVERY OFFSET, WHICH MAY BE REQUIRED. THE HVAC CONTRACTOR IS TO COORDINATE WITH ALL OTHER TRADES AND IS TO VERIFY ALL CLEARANCES BEFORE COMMENCING WORK.
2. MATERIALS, METHODS AND INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF THE LATEST EDITION OF THE SEATTLE MECHANICAL CODE, SEATTLE BUILDING CODE, SEATTLE FIRE CODE AND LOCAL CODES AND ORDINANCES.
3. DUCT CONSTRUCTION AND HANGING SHALL COMPLY WITH THE LATEST SMC AND WITH CURRENT SMACNA STANDARDS.
4. JOINTS OF DUCT SYSTEM SHALL BE SEALED WITH GASKETS OR LISTED MASTIC TYPE DUCT SEALANT.
5. DUCTS SHALL BE INSULATED AS INDICATED ON PLANS TO MEET THE REQUIREMENTS OF THE CURRENT SEATTLE ENERGY CODE AND SPECIFICATION.
6. FLEXIBLE DUCTS SHALL ONLY BE USED WHERE SHOWN AND SHALL NOT EXCEED 6 FT IN LENGTH UNLESS NOTED OTHERWISE.
7. PROVIDE EARTHQUAKE RESTRAINT FOR HVAC EQUIPMENT IN ACCORDANCE WITH THE CURRENT SBC.
8. PIPING PENETRATIONS OF FIRE RATED WALLS OR FLOOR SHALL BE SLEEVED AND FIRE STOPPED WITH LISTED MATERIALS SO AS TO MAINTAIN THE INTEGRITY AND RATING OF THE FLOOR OR WALL.
9. PROVIDE RETURN DUCT SMOKE DETECTOR(S) FOR AUTOMATIC SHUT DOWN OF ALL HEATING OR COOLING EQUIPMENT DELIVERING IN EXCESS OF 2000 CFM IN ACCORDANCE WITH THE CURRENT SEATTLE MECHANICAL CODE. POWER WIRING AND INTERLOCK WIRING WITH THE BUILDING FIRE ALARM SYSTEM IS BY THE ELECTRICAL CONTRACTOR.
10. HVAC EQUIPMENT, VALVES AND DAMPERS SHALL BE LOCATED IN EASILY ACCESSIBLE LOCATIONS, UNLESS SHOWN ON ARCHITECTURAL DRAWINGS. REQUIRED ACCESS PANELS SHALL BE PROVIDED BY THE HVAC CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
11. HVAC CONTRACTOR MUST COORDINATE WITH LIGHTING FIXTURES PRIOR TO DUCT AND PIPING INSTALLATION.

HVAC ENERGY CODE NOTES

1. SEE SCHEDULES FOR EQUIPMENT TYPE, CAPACITY AND EFFICIENCY. ALL EQUIPMENT SHALL MEET MINIMUM EFFICIENCY PER C403.2.3.
2. THERMOSTATIC CONTROLS IN THE SAME ZONE OR IN NEIGHBORING ZONES CONNECTED BY OPENINGS LARGER THAN 10% OF THE FLOOR AREA OF EITHER ZONE SHALL BE INTERLOCKED TO NOT ALLOW SIMULTANEOUS HEATING AND COOLING.
3. HEAT PUMPS WITH SUPPLEMENTARY ELECTRIC HEAT SHALL INCLUDE MICROPROCESSOR CONTROLS THAT MINIMIZE ELECTRIC HEAT USAGE DURING START-UP, SET-UP, AND DEFROST CONDITIONS. CONTROLS SHALL ANTICIPATE NEED FOR HEAT AND USE COMPRESSION HEATING AS THE FIRST STAGE. CONTROLS SHALL INDICATE WHEN ELECTRIC HEAT IS BEING USED THROUGH VISUAL MEANS. ELECTRIC HEAT SHALL NOT OPERATE ABOVE 40 F OUTSIDE AIR TEMPERATURE.
4. THERMOSTATIC CONTROLS SHALL BE CONFIGURED WITH AT LEAST A 5F DEADBAND BETWEEN HEATING AND COOLING SETPOINTS.
5. THERMOSTATS (OTHER THAN GROUP R) SHALL BE 7-DAY PROGRAMMABLE WITH AUTOMATIC SETBACK CONTROLS SET DOWN TO 55F AND UP TO 85F. CONTROLS SHALL MAINTAIN PROGRAMMING FOR AT LEAST 10 HOURS DURING LOSS OF POWER. CONTROLS SHALL HAVE A MANUAL 2 HR OVERRIDE FOR TEMPORARY OPERATION. CONTROLS SHALL ADJUST THE DAILY START TIME FOR MORNING WARMUP PRIOR TO SCHEDULED OCCUPANCY.
6. PROVIDE AMCA CLASS 1 MOTORIZED CONTROL DAMPERS FOR OUTSIDE AIR INTAKES, EXHAUST OUTLETS, RELIEF OPENINGS, STAIRWAY AND SHAFT VENTS AND RETURN SIDE OF AIRSIDE ECONOMIZERS.
7. AIR-COOLED UNITARY DIRECT-EXPANSION UNITS WITH A COOLING CAPACITY OF 54 MBH OR GREATER THAT ARE EQUIPPED WITH AN ECONOMIZER SHALL INCLUDE FAULT DETECTION AND DIAGNOSTICS (FDD).
8. PROVIDE GAS-FIRED HEATING EQUIPMENT WITH MODULATING OR STAGED COMBUSTION CONTROL FOR ALL EQUIPMENT OVER 225 MBH.
9. THERMOSTATS (GROUP R) SHALL BE 5-2 PROGRAMMABLE SCHEDULE WITH AT LEAST 2 SETBACK PERIODS PER DAY.
10. PROVIDE DUCT, SHAFT AND PLENUM INSULATION PER C403.2.8 AND SPECIFICATION SECTION 23 07 00.
11. SEAL ALL TRANSVERSE AND LONGITUDINAL SEAMS, JOINTS AND CONNECTIONS OF ALL DUCTWORK WITH WELDS, GASKETS OR MASTICS.
12. PROVIDE PIPE INSULATION PER ENERGY CODE SECTION C403.2.9 AND SPECIFICATION SECTION 23 07 00.
13. INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED FROM DAMAGE, SUNLIGHT, MOISTURE AND WIND. PROVIDE JACKET AND ALUMINUM COVERS. ADHESIVE TAPE IS NOT PERMITTED.
14. SINGLE FAN OR MULTIPLE FANS IN PARALLEL WITH COMBINED MOTOR NAMEPLATE OVER 5HP SHALL HAVE A FAN EFFICIENCY GRADE (FEG) OF 67 OR HIGHER AND SHALL BE SELECTED TO OPERATE WITHIN 15% OF THE MAXIMUM TOTAL EFFICIENCY OF THE FAN.
15. COOLING SYSTEMS 65 MBH AND GREATER SHALL HAVE TWO SPEED FAN CONTROL OR MODULATING FAN CONTROL.
16. FAN AND PUMP MOTORS 7.5 HP AND GREATER SHALL BE PROVIDED WITH A VFD.
17. ECONOMIZERS SHALL BE INTEGRATED WITH MECHANICAL COOLING AND SHALL BE CAPABLE OF PROVIDING PARTIAL ECONOMIZER COOLING EVEN WHEN ADDITIONAL MECHANICAL COOLING IS REQUIRED.
18. AIR ECONOMIZERS SHALL HAVE FIXED DRY-BULB HIGH-LIMIT SHUTOFF CONTROL NOT TO EXCEED 75 DEG. F.
19. ALL ELECTRIC MOTORS SHALL MEET THE EFFICIENCY REQUIREMENTS OF TABLES C405.8(1) THROUGH C405.8(4).
20. FAN MOTORS 1/12 HP UP TO 1 HP SHALL BE ECM.
21. PROVIDE A MEANS OF BALANCING EVERY AIR INLET AND OUTLET AND EVERY AIR OR WATER TERMINAL DEVICE.
22. ALL PIPE AND DUCT INSULATION SHALL BE LABELLED WITH ITS THICKNESS AND INSULATING VALUE (R OR K).

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL/ARCHITECT
AS	AIR SEPARATOR
AUX	AUXILIARY
BFF	BELOW FINISHED FLOOR
BHP	BRAKE HORSE POWER
BLDG	BUILDING
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CA	COMBUSTION AIR
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
COND	CONDENSATE
CW	COLD WATER
CX	CONNECT TO EXISTING
dB	DECIBEL
DB °F	DRY BULB TEMPERATURE
° OR DEG.	DEGREE
Ø OR DIA	DIAMETER
DN	DOWN
DWG(S)	DRAWING(S)
DWV	DRAIN, WASTE, VENT
EX	EXISTING/EXISTING TO REMAIN
EA	EACH
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ERU	ENERGY RECOVERY UNIT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EXP	EXPANSION
FC	FAIL CLOSED
FDSD	FIRE DAMPER SMOKE DAMPER
FF	FINISHED FLOOR
FLA	FULL LOAD AMPS
FO	FAIL OPEN
FP	FIRE PROTECTION
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET/FOOT
FTG	FOOTING
FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR
FOIO	FURNISHED BY OWNER INSTALLED BY OWNER
FSD	FIRE/SMOKE DAMPER
G	NATURAL GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
G.C.	GENERAL CONTRACTOR
GSM	GALVANIZED SHEET METAL
H	HEIGHT
HD	HEAD
HP	HORSEPOWER
HVAC	HEATING VENTILATING AND AIR CONDITIONING
HW	HOT WATER
HX	HEAT EXCHANGER
HZ	HERTZ
ID	INSIDE DIAMETER/DIMENSION
IN	INCH/INCHES
IN WC	INCHES WATER COLUMN
KW	KILOWATT/KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LF	LINEAL FOOT
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
LWT	LEAVING WATER TEMPERATURE
MBH	1000 BRITISH THERMAL UNIT PER HOUR
MED	MEDIUM
MEP	MECHANICAL, ELECTRICAL & PLUMBING
MEZZ	MEZZANINE
MIN	MINIMUM OR MINUTE
MISC	MISCELLANEOUS
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOM	NOMINAL
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OA/OSA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
ΔP	PRESSURE DIFFERENTIAL
PERF	PERFORATED
Φ OR PH	PHASE
PIVD	PRESSURE INDEPENDENT VOLUME DAMPER
PLBG	PLUMBING
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER INCH GAUGE
PTAC	PACKAGE TERMINAL AIR CONDITIONER
QTY	QUANTITY
RA	RETURN AIR
RH	RELATIVE HUMIDITY
RM	ROOM
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RLX	RELOCATE EXISTING
RTU	ROOF TOP UNIT
RV	RELIEF VALVE
RX	REMOVE EXISTING
SA	SUPPLY AIR
SD	SMOKE DETECTOR
SF	SQUARE FOOT
S.L.	SOUND LINER
SP	STATIC PRESSURE
SPEC	SPECIFICATION
S/S, OR SS	STAINLESS STEEL
STD	STANDARD
T&P	TEMPERATURE AND PRESSURE RELIEF VALVE
TBD	TO BE DETERMINED
TEMP	TEMPERATURE
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOD	TOP OF DECK
TOJ	TOP OF JOIST
TOS	TOP OF SLAB/TOP OF STEEL
T&P	TEMPERATURE & PRESSURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
UTR	UP THROUGH ROOF
V	VOLT
VAV	VARIABLE AIR VOLUME
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VIB	VALVE-IN-BOX
VOL	VOLUME
W/	WITH
W/IN	WITHIN
W/O	WITHOUT
WB °f	WET BULB TEMPERATURE
WC	WATER COLUMN
WPD	WATER PRESSURE DROP
WT	WEIGHT

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FIRE STATION 65
4966 SOUTH 298TH STREET,
AUBURN, WA 98001

PROJECT # 17065

BID SET

ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE

COVER SHEET

SHEET:

M00.01

SPLIT FURNACE SCHEDULE

INDOOR UNIT																			OUTDOOR UNIT							
			SUPPLY				COOLING-DX					HEATING-GAS			ELECTRICAL							ELECTRICAL				
MARK	MAKE	MODEL	TOTAL CFM	ESP W.C.	FAN HP	OSA CFM	TOTAL MBH	SENSIBLE MBH	EAT DB / WB	OAT DB	SEER	MBH IN	MBH OUT	EFF.	VOLT/PH	MCA	MOCP	OP. WT. LBS.	MARK	MAKE	MODEL	VOLT/PH	MCA	MOCP	OP. WT. LBS.	NOTES:
F-1	TRANE	S9V2C100U4VS	1600	0.6	0.75	200	49.3	37.3	80 /67	95.0	16.5	100/65	64/96	96%	115/1	10.8	15	130	CU-1	TRANE	4TTA7048A3	208/3	18	30	250	ALL
F-2	TRANE	S9V2C100U4VS	1600	0.6	0.75	200	49.3	37.3	80 /67	95.0	16.5	100/65	64/96	96%	115/1	10.8	15	130	CU-2	TRANE	4TTA7048A3	208/3	18	30	250	ALL

NOTES:
1. HORIZONTAL COOLING COIL 4TXCC007DS3HCA
2. CONENTRIC ROOF VENT KIT.
3. TWO-STAGE GAS HEAT, VARIABLE SPEED BLOWER AND TWO-STAGE CONDENSER.
4. FURNACES OPPERATE IN TANDEM
5. 7-DAY PROGRAMMABLE THERMOSTAT.

FAN SCHEDULE

MARK	SERVES	MAKE	MODEL	TYPE	CFM	ESP INCH WC	RPM	BHP	HP (WATTS)	ELEC VOLT/PH	WT. LBS	MAX SOUND	NOTES:
EF-1	BUNKER GEAR / DECON	GREENHECK	G-095-VG	ROOF CENT	400	0.5	1377	0.08	1/6	120/1	60	65 LWA	A, 1, 2, 3, 5
EF-2	RESTROOM	PANASONIC	FV-0511VKS2	CEILING	80	0.25	N/A	N/A	24 W	120/1	20	0.5 SONES	A, B, 1, 4
MUA	KITCHEN HOOD MAKEUP	GREENHECK	SQ-102-VG	INLINE	800	0.5	1143	0.14	1/2	120/1	150	53 LWA	C, 1, 6, 7, 8

NOTES:
1. ECM FAN SPEED CONTROL
2. FACTORY INSULATED CURB, MATCH ROOF SLOPE
3. ALUMINUM BIRD SCREEN, CURB SEAL AND HINGE KIT
4. BACKDRAFT DAMPER
5. MOTORIZED SHUTOFF DAMPER, CLASS 1A
6. FILTER BOX W/2" MERV 11 FILTERS.
7. INSULATED HOUSING
8. SPRING ISOLATION HANGERS.

A. RUNS CONTINUOUSLY.
B. FV-MSVK1 MOTION SENSOR, 30 CFM MINIMUM, 20 MIN OFF
C. INTERLOCK WITH KITCHEN HOOD CONTACT OR CURRENT SENSOR

SEQUENCE OF OPERATIONS

1. CONTROL SYSTEM.

   PROVIDE ELECTRIC/ELECTRONIC CONTROLS TO PERFORM FUNCTIONS IN ACCORD WITH THE FOLLOWING.

2. FURNACE SPLIT SYSTEMS: F-1, F-2, CU-1 & CU-2

   UNITS OPERATE IN TANDEM WITH LOW VOLTAGE 7-DAY PROGRAMMABLE THERMOSTAT.

   THERMOSTAT PROVIDES START/STOP SCHEDULE, TEMPERATURE CONTROL & FAN SPEED CONTROL.

   RECONNECT TO EXISTING MIXING BOX ECONOMIZER CONTROLS.

   REBALANCE SYSTEM AND SET MINIMUM OUTSIDE AIR TO 800 CFM.

3. DECON/BUNKER GEAR EXHAUST FAN: EF-1

   FAN OPERATES CONTINUOUSLY

4. RESTROOM EXHAUST FAN: EF-2

   FAN OPERATES CONTINUOUSLY AT LOW SPEED, HIGH SPEED ACTIVATED WITH INTEGRAL MOTION SENSOR, 20 MIN OFF DELAY.

5. KITCHEN HOOD MAKEUP AIR: MUA/DH-1

   HOOD FAN SWITCH ACTIVATES MUA AND ENABLES DH-1. INTERLOCK WITH MOTORIZED DAMPER. WHEN FAN IS RUNNING MOTORIZED OUTSIDE AIR DAMPER OPENS AND DUCT HEATER MODULATES TO MAINTAIN DUCT SUPPLY TEMP OF 68F (ADJ). MOTORIZED DAMPER CLOSES WHEN FAN IS OFF.

6. KITCHEN HOOD: HOOD

   HOOD SWITCHES FOR LIGHTS AND FAN. FAN SWITCH OPERATES HOOD AND MUA VIA CONTACT OR CURRENT SENSING RELAY (BY DIV 23). LIGHT SWITCH ACTIVATES INTEGRATED HOOD LIGHTS.

7. RADIANT CEILING PANELS: RCP

   UNITS OPERATE WITH ELECTRONIC LINE VOLTAGE HEATING ONLY WALL THERMOSTATS. SPACE TEMPERATURE SETPOINT OF 60F (ADJ).

8. KITCHEN RANGE GAS SOLENOID VALVE:

   VALVE IS NORMALLY CLOSED (WITHOUT POWER). VALVE IS OPEN FOR STANDARD OPERATION. VALVE CLOSES ON RELAY FROM STATION ALERTING SYSTEM, RESET BY MANUAL WALL SWITCH. (BY ALERTING EC).

9. BBQ GAS SOLENOID VALVE:

   VALVE IS NORMALLY CLOSED (WITHOUT POWER). VALVE IS OPEN FOR STANDARD OPERATION. VALVE CLOSES ON RELAY FROM STATION ALERTING SYSTEM, RESET BY MANUAL WALL SWITCH (BY ALERTING EC).

HOOD SCHEDULE

MARK	MAKE	MODEL	WIDTH	LENGTH	HEIGHT	EXHAUST CFM	EXHAUST S.P.	WEIGHT	VOLTAGE	AMPS	NOTES:
HOOD	VIKING	VWH54848	24"	48"	18"	1200	0.1	150	115/1	10.8	ALL

NOTES:
1. LED LIGHTS
2. STAINLESS STEEL CONSTRUCTION AND COLOR
3. 10" ROUND DAMPER
4. STAINLESS STEEL FILTERS
5. HEAT SENSOR
6. 1200 CFM INTERIOR POWER VENTILATOR KIT VINV1200
7. WALL HOOD DUCT COVER
8. MAKEUP AIR CONTACT OR CURRENT RELAY.

DIFFUSER AND GRILLE SCHEDULE

ITEM	MAKE	MODEL	DESCRIPTION	SIZE	MARK
SUPPLY DIFFUSER	TITUS	MCD	SQUARE FACE/NECK, SURFACE MOUNT FRAME SIZE OR 24"X24" LAY-IN. SIDE INLET PLENUM PER PLANS. 4 ADJ. CORES, STEEL, WHITE ENAMEL	6"X6"	D-1
				8"X8"	D-2
				10"X10"	D-3
				12"X12"	D-4
OSA SUPPLY DIFFUSER	PRICE	RTD	SQUARE FACE, 24"X24" LAY-IN. HIGH INDUCTION VORTEX PATTERN PROVIDE SIDE INLET PLENUM. STEEL	10"	D-31
				12"	D-32
				14"	D-33
SUPPLY REGISTER	TITUS	S300FL	3/4" BLADE SPACING, DOUBLE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION, ALUMINUM, SPIRAL RADIUS, WHITE FINISH W/ OPTIONAL ASD	16"X6"	R-11
RETURN GRILLE	TITUS	50F	1/2" EGG CRATE, ALUM., WHITE ENAMEL	12"X24"	G-1
				24"X24"	G-2
RETURN GRILLE	TITUS	355RL	1/2" BLADE SPACING, 35 DEG DEFLECTION, BLADES PARALLEL TO LONG DIMENSION, STEEL, WHITE	12"x12"	G-11
				22"X12"	G-12

NOTES:
1. CEILING UNIT FRAME SHALL BE COMPATIBLE WITH CEILINGS; FLAT FRAME SURFACE MOUNT (TITUS BORDER TYPE 1) FOR DRYWALL CEILINGS AND WITH LAY-IN PANEL FOR EXPOSED GRID CEILINGS (TITUS BORDER TYPE 3). SEE ARCHITECTURAL PLANS FOR CEILING TYPES.
2. BEVELED DROP FACE DIFFUSERS (TITUS BORDER TYPE 6) ARE NOT ACCEPTABLE.
3. SIZE INDICATES DUCT COLLAR (EXCEPT FOR TROX SWIRL DIFFUSERS).

RADIANT CEILING PANEL SCHEDULE

MARK	SERVES	MANUFACTURER	MODEL	SIZE	ELECTRICAL WATTS	ELECTRICAL VOLT/PH	WEIGHT	NOTES:
RCP-1	BUNKER GEAR	MARKEL	CP-807	24"X48"	750	208/1	40	ALL
RCP-2	DECON	MARKEL	CP-807	24"X48"	750	208/1	40	ALL

NOTES:
1. LINE-VOLTAGE THERMOSTAT FURNISHED BY MECHANICAL, INSTALLED BY ELECTRICAL
2. SURFACE MOUNT OR T-BAR CEILING, SEE REFLECTED CEILING PLAN.

ELECTRIC DUCT HEATER SCHEDULE

MARK	MAKE	MODEL	SERVES	DUCT SIZE	HEAT KW	STAGES	VOLT / PH	NOTES:
DH-1	INDEECO	QUZ	MUA	16X16	13	SCR	208/3	ALL

NOTES:
1. FLANGE DUCT CONNECTION
2. AIR FLOW SWITCH SAFETY HIGH LIMIT
3. PROPORTIONAL SCR CONTROL
4. MAGNETIC CONTACTS
5. CONTROL TRANSFORMER

A. SINGLE DOWNSTREAM DUCT THERMOSTAT

PENTHOUSE SCHEDULE

MARK	MAKE	MODEL	SIZE	AIRFLOW DIRECTION	CFM	P.D. IN WG	FREE AREA	MATERIAL	WEIGHT (LBS)	NOTES:
PH-1	GREENHECK	WIH	16X16	INTAKE	800	0.037	2.9	ALUMINUM	30	ALL

NOTES:
1. 1" HOOD INSULATION
2. ALUMINUM BIRDSCREEN AND ALUMINUM INSECT SCREEN
3. FACTORY CURB W/ LINER, MATCH ROOF SLOPE
4. CLASS 1A INSULATED MOTORIZED CONTROL DAMPER.
5. ALUMINUM INTAKE FILTERS.

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SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
FIRE STATION 65
4966 SOUTH 298TH STREET,
AUBURN, WA 98001

PROJECT # 17065

BID SET

ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE

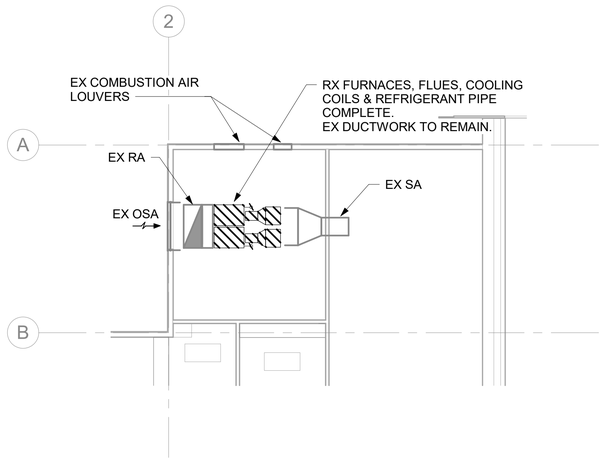
SCHEDULES

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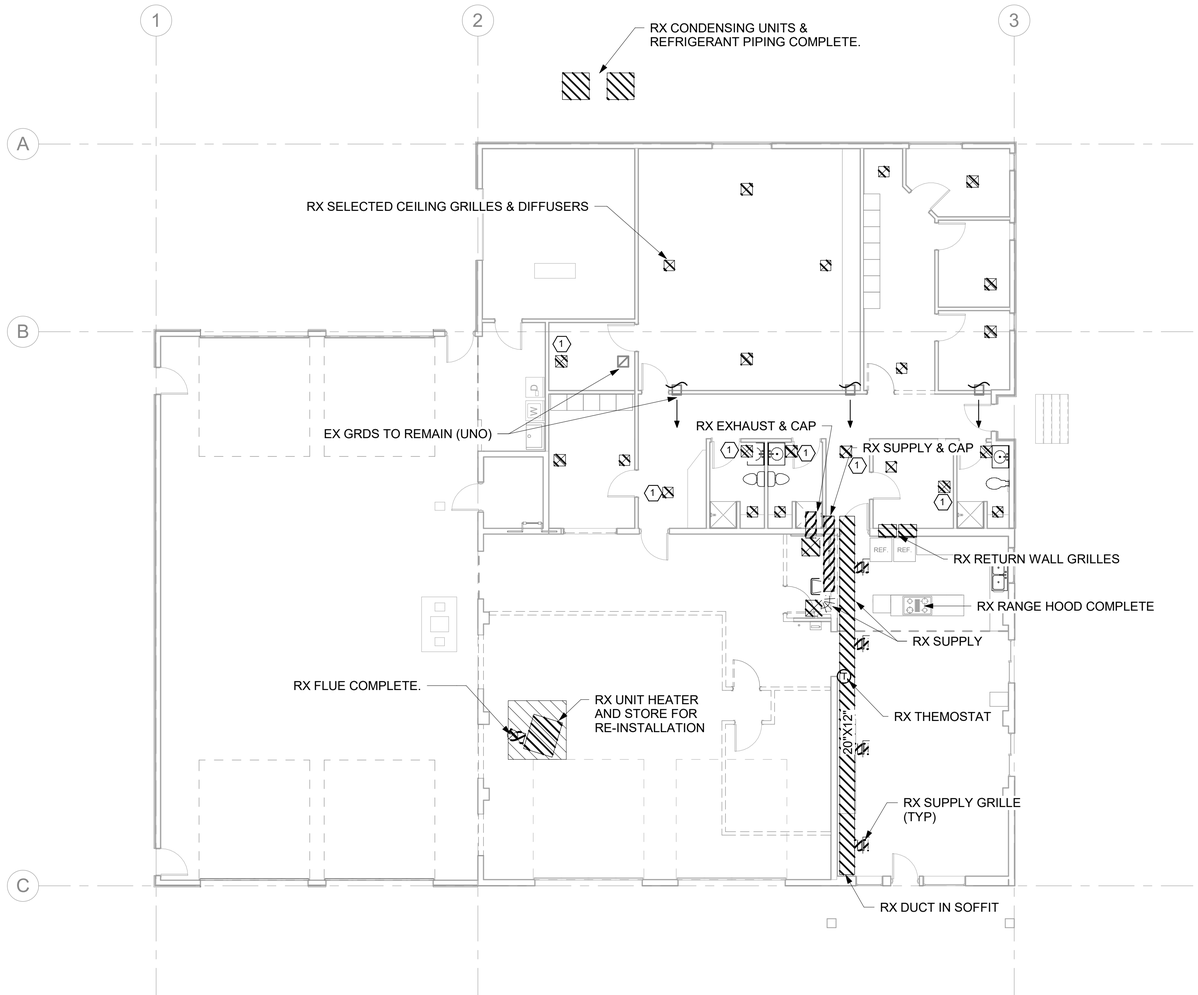
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PLAN NOTES:

1. DEMO DIFFUSER & FLEXABLE DUCTWORK. CAP & SEAL SHEETMETAL CONNECTION.



2 DEMOLITION PLATFORM PLAN
1/8" = 1'-0"



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

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SOUTH KING FIRE & RESCUE FACILITY IMPROVEMENTS

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DEMO FLOOR PLAN

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M21.01

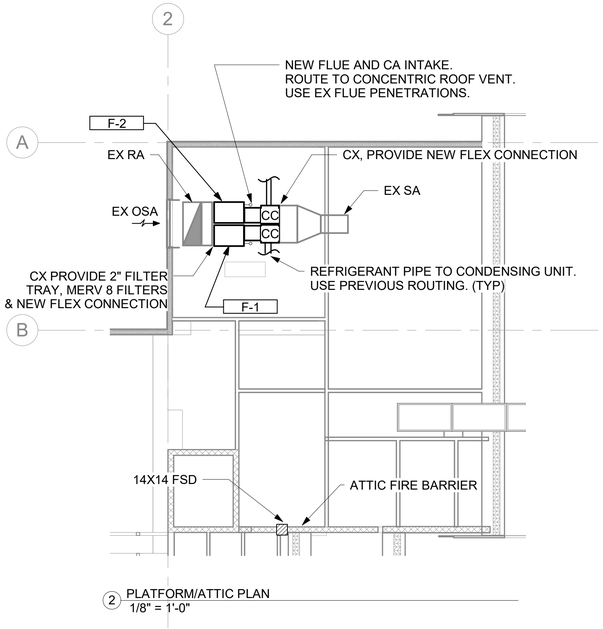
GENERAL NOTES:

1. PROVIDE EQUIPMENT ANCHORING AND SEISMIC BRACING PER ASCE 7-16.

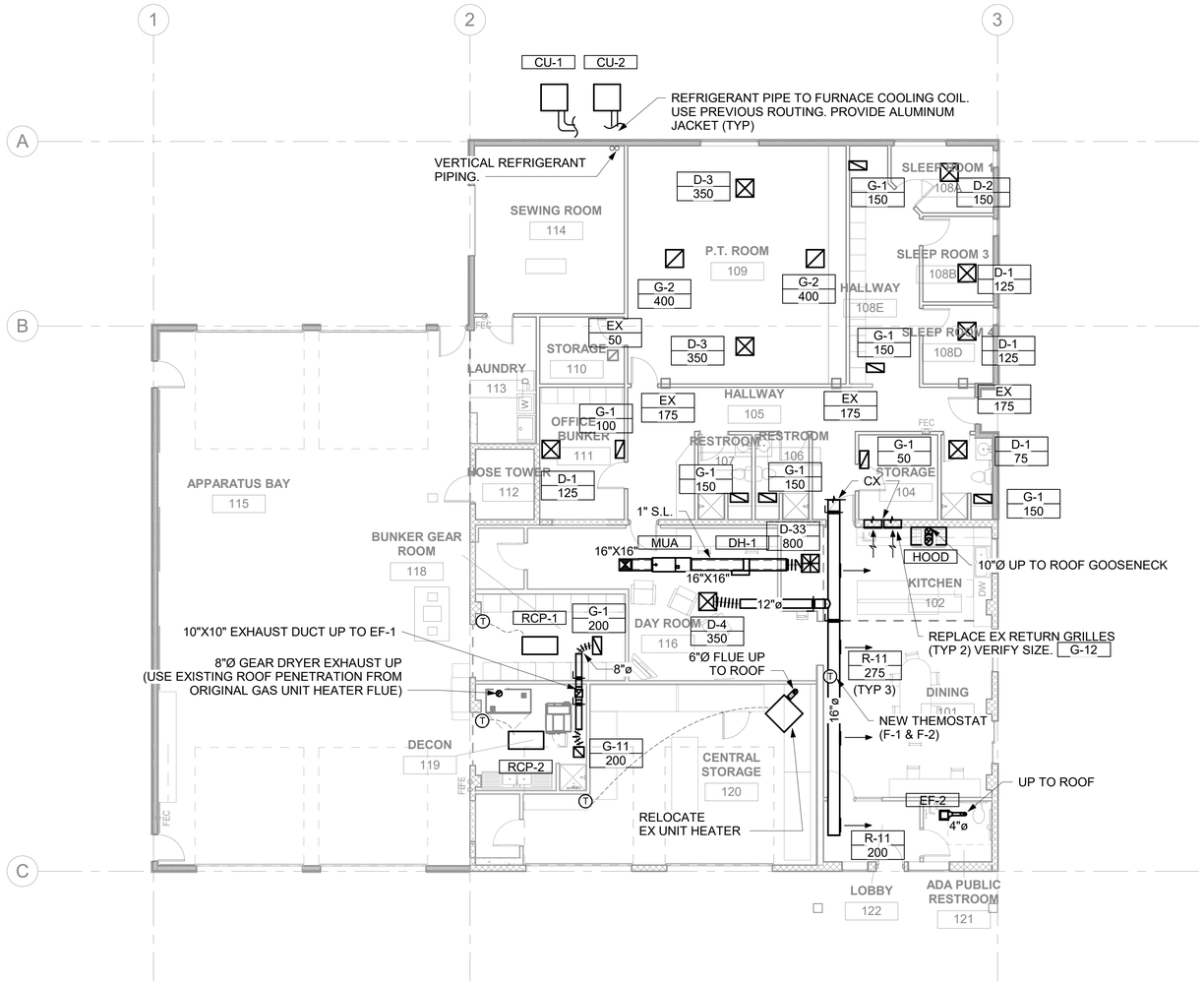
2. PROVIDE NEW FLEXIBLE DUCT FOR REPLACED CEILING GRILLES AND DIFFUSERS.

3. REBALANCE FURANCE AIR SYSTEM. PROVIDE MINIMUM 800 CFM OSA.

4. PROVIDE NEW THERMOSTAT AND RECONNECT EXISTING ECONOMIZER CONTROLS TO NEW FURNACES.



2 PLATFORM/ATTIC PLAN
1/8" = 1'-0"



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

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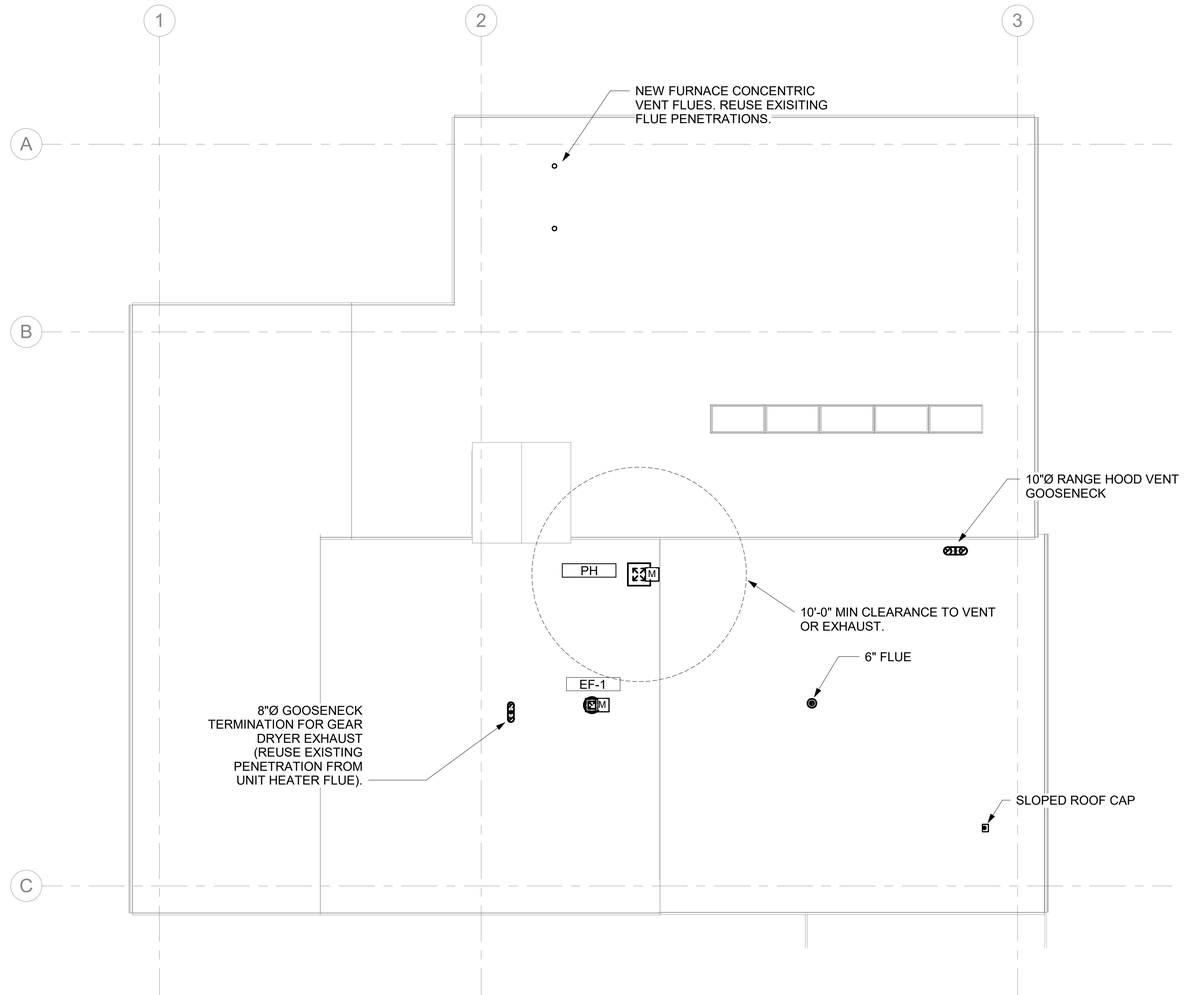
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FLOOR PLAN

SHEET:

M21.11



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

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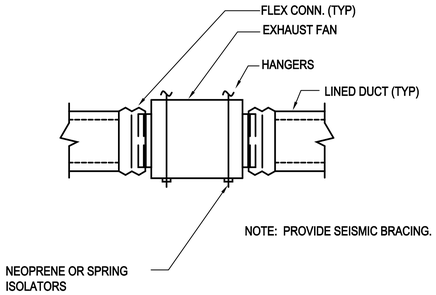
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ROOF PLAN

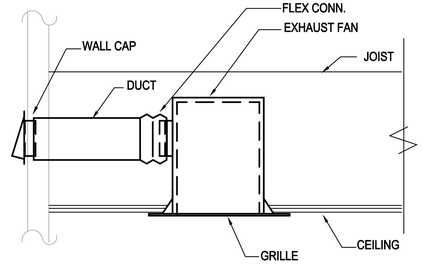
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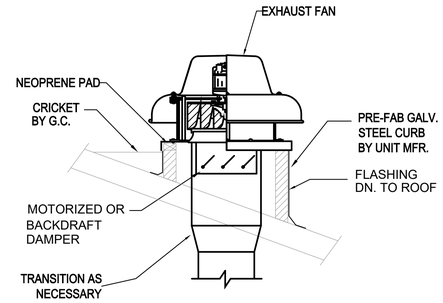
3 INLINE EXHAUST FAN DETAIL

M30.01 **Scale: NONE**



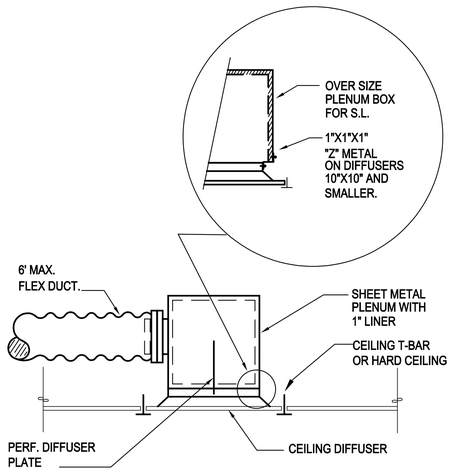
2 EXHAUST FAN DETAIL

M30.01 **N.T.S.**



ROOF EXHAUST FAN DETAIL

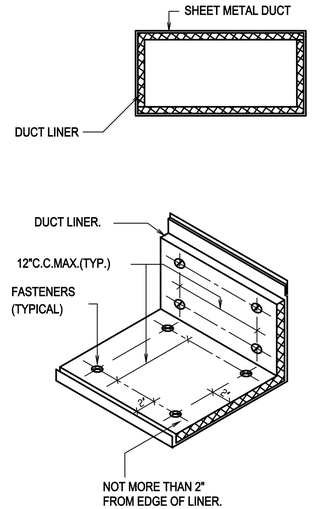
1 M30.01 **Scale: NONE**



NOTES:
1. SEE ARCHITECTURAL PLANS FOR CEILING TYPES.
2. SUPPLY SHOWN, DETAIL WITHOUT PERF PLATE IS TYPICAL FOR CEILING RETURN OR EXHAUST GRILLE INSTALLATION.

CEILING INSTALLATION TYPICAL DIFFUSER DETAIL

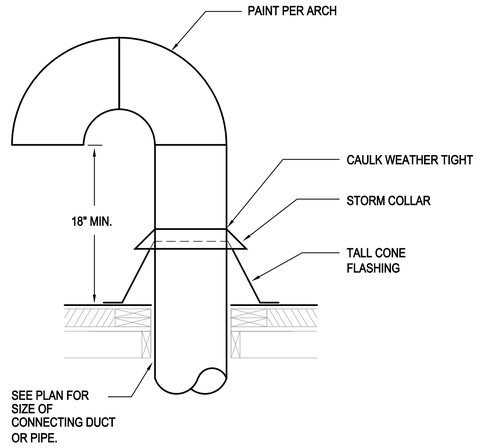
6 M30.01 **Scale: NONE**



NOTES:
1. PROVIDE S/M NOSING AT EXPOSED EDGES OF INSULATION.
2. ALL TRANSVERSE AND LONGITUDINAL ENDS OF LINER TO BE COATED WITH ADHESIVE.

5 DUCT LINER DETAIL

M30.01 **N.T.S.**



4 ROUND GOOSENECK DETAIL

M30.01 **N.T.S.**

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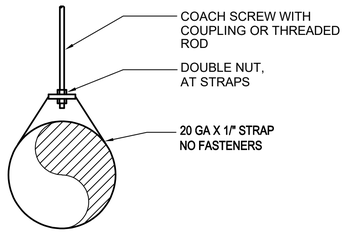
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MECHANICAL DETAILS

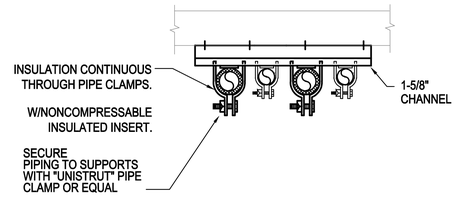
SHEET:

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EXPOSED SPIRAL DUCT HANGING DETAIL

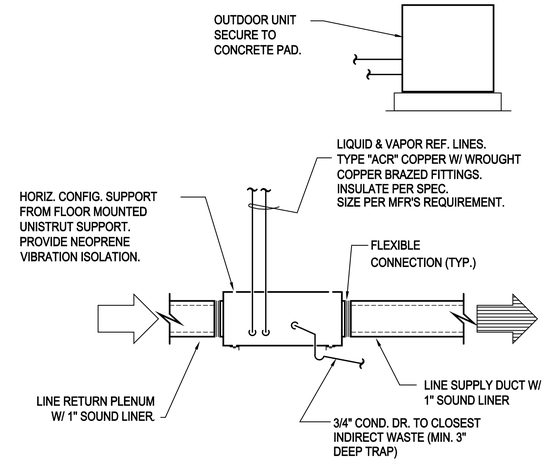
3 M30.02 **Scale: NONE**



NOTE: QUANTITY OF PIPES SHOWN REPRESENTATIVE ONLY, PROVIDE QUANTITY OF PIPES REQUIRED.

REFRIGERANT PIPE SUPPORT

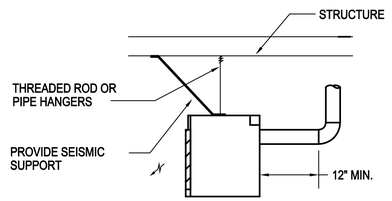
2 M30.02 **N.T.S.**



NOTE: SWEEP PIPING WITH NITROGEN BEFORE BRAZING. INTERNAL OXYIDATION AND SCALE IS NOT ACCEPTABLE

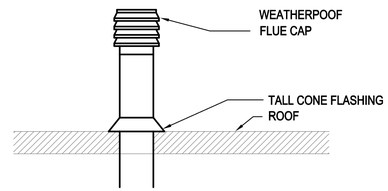
SPLIT SYSTEM HP/AC INSTALLATION DETAIL

1 M30.02 **N.T.S.**



UNIT HEATER DETAIL

5 M30.02 **N.T.S.**



FLUE VENT DETAIL

4 M30.02 **N.T.S.**

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SHEET:

M30.02

PLUMBING SYMBOLS LEGEND

LINETYPE LEGEND

- EXISTING
- NEW WORK DARK/HEAVY

PIPING SYSTEM LABELS

- CW — COLD WATER
- HW — HOT WATER
- WASTE (BURIED)
- W — WASTE (ABOVE GRADE)
- V — VENT
- G — NATURAL GAS
- F — FIRE SERVICE
- DIRECTION OF FLOW
- C — CONDENSATE
- X" — SLOPE SYMBOL (X' PER FOOT)

PIPE FITTINGS

- PIPE DOWN
- PIPE UP
- TEE UP
- TEE DOWN
- UNION
- PIPE ANCHOR POINT
- PIPE GUIDE
- FLANGE
- CAP

DRAINS AND CLEANOUTS

- FLOOR DRAIN
- HIDDEN FLOOR DRAIN
- FLOOR CLEANOUT
- GRADE CLEANOUT
- TRENCH DRAIN
- WALL CLEANOUT
- UP TO CLEANOUT
- FUNNEL DRAIN
- STANDPIPE FUNNEL DRAIN

PIPE VALVES AND SPECIALTIES

- P-1 — PLUMBING EQUIPMENT
- M-1 — DETAIL NUMBER / SHEET
- FLAG NOTE
- 1 — REVISION TAG
- 1 — SECTION NUMBER / SHEET NUMBER

PIPE VALVES AND SPECIALTIES

- CHECK VALVE
- BALL VALVE
- PRESSURE REDUCING VALVE
- PRESSURE GAUGE
- THERMOMETER
- STRAINER
- OR — CAP
- HOSE BIBB
- RPBA
- BALL VALVE MANUAL LEVER

PLUMBING NOTES

1. PLUMBING FIXTURES SHALL BE DESIGNED OR EQUIPPED TO MEET FOLLOWING MAXIMUM WATER USE EFFICIENCY STANDARDS:
   A. WATER CLOSETS (TANK STYLE OR FLUSH VALVE). 1.6 GPF
   B. PUBLIC LAVATORY FAUCETS. 0.5 GPM
   SINK AND LAVATORY DRAINS SHALL BE CHROME PLATED 17 GA. BRASS TUBING BY ENGINEERED BRASS, DEARBORN BRASS OR BRASSCRAFT. PROVIDE INSULATED P-TRAP AND SUPPLY COVERS (TRUEBRO OR EQUAL) AT ALL EXPOSED P-TRAPS AND SUPPLIES PER A.D.A. STANDARDS.
2. PLUMBING FIXTURE MOUNTING SHALL COMPLY WITH CONTRACT DOCUMENTS, ADA, AND WASHINGTON STATE ACCESSIBILITY CODE.
3. INSTALL WATER HAMMER ARRESTORS ON HOT & COLD WATER PIPING OF EACH FIXTURE GROUP AND AT ALL FIXTURES W/QUICK ACTING VALVES. UNITS SHALL BE ZURN "SHOKTROLL" OR EQUAL. SELECT UNIT SIZE AND LOCATION PER MANUFACTURERS RECOMMENDATIONS AND IN ACCORD WITH PDI STANDARD WH-201. PROVIDE ACCESS PANELS AT ARRESTORS ABOVE GWB CEILINGS. ALL ACCESS PANELS AND DOORS SHALL BE ELMDOR FAB. STEEL SLK SERIES OR EQUAL WITH 14 GAUGE DOOR AND FRAME. PROVIDE WITH CYLINDER LOCK, CONTINUOUS PIANO HINGE AND PRIME COATED READY FOR PAINTING.
4. COLD WATER AND HOT WATER PIPING SHALL BE INSULATED AND ROUTED FULL SIZE WITH APPROPRIATE SIZE REDUCTION AT POINT OF CONNECTION TO FIXTURE. 1/2" WATER LINE LIMITED TO 10'-0" DISTANCE FROM FIXTURE. "DEAD-LEGS" OR "FUTURE" STUBS ON ACTIVE POTABLE WATER LINES SHALL BE LIMITED TO 4" TO PREVENT STAGNANT WATER CONDITIONS.
5. INSTALL WATER PIPING ON WARM SIDE OF BUILDING INSULATION. SEE SPEC. FOR INSULATION SYSTEMS. SEE DWGS. FOR ELEC. HEAT TRACE REQUIREMENTS. SEE PLUMBING DETAILS FOR PIPE HANGER STYLE. SEE SPEC. FOR HANGER SPACING.
6. WHEN CONNECTING TO EXISTING BURIED WASTE PIPING VERIFY PROPER FLOW CONDITIONS BEFORE COVERING. BURIED WASTE & VENT PIPING SHALL BE MIN. 2" DIA. & SLOPED 1/4"/FT., UNLESS OTHERWISE NOTED. PVC OR ABS PIPING SHALL BE USED ONLY IF APPROVED BY ADMINISTRATIVE AUTHORITY, SEE SPECIFICATIONS FOR FURTHER INFO.
7. PROVIDE TRAP PRIMERS ON ALL FLOOR DRAINS EXCEPT IN SHOWER STALLS OR OTHERWISE NOTED ON DWGS. CONTRACTOR SHALL INSTALL ACCESS PANELS WHERE PRIMERS ARE CONCEALED IN WALLS.
8. COORDINATE VENT THROUGH ROOF (VTR) LOCATIONS WITH HVAC EQUIPMENT. MAINTAIN MIN. 10'-0" CLEARANCE. OFFSET VTR AS NECESSARY. COORDINATE PIPE ROUTING WITH HVAC AND SPRINKLER CONTRACTORS.
9. RISER DIAGRAMS & PLANS DO NOT SHOW SOME PIPING OFFSETS REQUIRED FOR STRUCTURAL CLEARANCES. EXACT ROUTING MAY VARY FROM THAT INDICATED. ALL WASTE PIPING INCLUDING RISERS ON RESIDENTIAL LEVELS TO BE CAST IRON.
10. PROVIDE ELECTRIC HEAT TRACE UNDER PIPING INSULATION FOR ALL WATER PIPING INSTALLED IN UNHEATED GARAGE SPACES.
11. CONFIGURE PIPING FOR SUDS RELIEF AS REQUIRED BY THE UPC.
12. ALL LEVER CONTROLLED WATER CLOSETS TO BE INSTALLED WITH THE LEVER ON THE OPEN SIDE OF THE BATHROOM.

ENERGY CODE NOTES

1. PUBLIC LAVATORIES SHALL BE EQUIPPED WITH AN ASSE 1070 MIXING VALVE SET TO DELIVERY 110 F HOT WATER.
2. NONCIRCULATING HOT WATER SYSTEMS WITHOUT AN INTEGRAL HEAT TRAP SHALL BE PROVIDED WITH HEAT TRAPS ON THE SUPPLY AND DISCHARGE PIPING.
3. PROVIDE PIPE INSULATION PER ENERGY CODE SECTION C403.2.9 AND SPECIFICATION SECTION 22 07 00.
4. INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED FROM DAMAGE, SUNLIGHT, MOISTURE AND WIND. PROVIDE JACKET AND ALUMINUM COVERS. ADHESIVE TAPE IS NOT PERMITTED.
5. ALL PIPE AND WRAP INSULATION SHALL BE LABELED WITH ITS THICKNESS AND INSULATING VALUE (R OR K).
6. THE MAXIMUM ALLOWABLE PIPING LENGTH FROM THE NEAREST SOURCE OF HOT WATER TO THE TERMINATION OF THE FIXTURE SUPPLY SHALL COMPLY WITH C404.3

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE	MBH	1000 BRITISH THERMAL UNITS PER HOUR
ADA	AMERICANS WITH DISABILITIES ACT	MED	MEDIUM
ADJ	ADJUSTABLE	MEP	MECHANICAL, ELECTRICAL, PLUMBING
AFF	ABOVE FINISHED FLOOR	MEZZ	MEZZANINE
AFG	ABOVE FINISHED GRADE	MIN	MINIMUM
ALT	ALTERNATE	MISC	MISCELLANEOUS
AP	ACCESS PANEL		
APPROX	APPROXIMATE	N/A	NOT APPLICABLE
ARCH	ARCHITECTURAL/ARCHITECT	NC	NORMALLY CLOSED
AS	AIR SEPARATOR	NEG	NEGATIVE
AUX	AUXILIARY	NIC	NOT IN CONTRACT
		NOM	NOMINAL
BFF	BELOW FINISHED FLOOR	NPC	NON-POTABLE COLD WATER
BFG	BELOW FINISHED GRADE	NPCW	NON POTABLE COLD WATER
BHP	BRAKE HORSE POWER	NPH	NON-POTABLE HOT WATER
BLDG	BUILDING	NPHR	NON-POTABLE HOT WATER RETURN
BOP	BOTTOM OF PIPE	NPT	NATIONAL PIPE THREAD
BTU	BRITISH THERMAL UNIT	NTS	NOT TO SCALE
BTUH	BRITISH THERMAL UNIT PER HOUR		
		OD	OUTSIDE DIAMTER/OVERLOW DRAIN
CA	COMBUSTION AIR	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CLG	CEILING	OFOI	OWNER FURNISHED OWNER INSTALLED
CMU	CONCRETE MASONRY UNIT	ORD	OVERFLOW ROOF DRAIN
CO	CLEANOUT	ORL	OVERFLOW RAINWATER LEADER
COND	CONDENSATE		
CW	COLD WATER	ΔP	PRESSURE DIFFERENTIAL
CX	CONNECT TO EXISTING		
		PD	PLANTER DRAIN; PRESSURE DROP
dB	DECIBEL	PERF	PERFORATED
DCVA	DOUBLE CHECK VALVE ASSEMBLY	PH	PHASE
DDCV	DOUBLE DETECTOR CHECK VALVE	PIV	POST INDICATOR VALVE
DDCVA	DOUBLE DETECTOR CHECK VAVLE ASSEMBLY	PLBG	PLUMBING
DF	DRINKING FOUNTAIN	PRESS	PRESSURE
DFU	DRAINAGE FIXTURE UNIT	PRV	PRESSURE REDUCING VALVE
DHW	DOMESTIC HOT WATER	PSF	POUNDS PER SQUARE FOOT
DHWC	DOMESTIC HOT WATER RECIRCULATION	PSI	POUNDS PER SQUARE INCH
Ø OR DIA	DIAMETER	PSIG	POUNDS PER INCH GAUGE
DN	DOWN		
DWG(S)	DRAWING(S)	QTY	QUANTITY
DWV	DRAIN, WASTE, VENT		
		RD	ROOF DRAIN
EA	EACH	REQD	REQUIRED
EEW	EMERGENCY EYEWASH	RL	RAIN WATER LEADER
EFF	EFFICIENCY	RM	ROOM
ELEV	ELEVATION	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
EQUIP	EQUIPMENT	RPM	REVOLUTIONS PER MINUTE
ES	EMERGENCY SHOWER	RLX	RELOCATE EXISTING
ET	EXPANSION TANK	RV	RELIEF VALVE
EX	EXISTING/EXISTING TO REMAIN	RX	REMOVE EXISTING
EXP	EXPANSION		
		S	SINK
FC	FAIL CLOSED	S	STORM
FCO	FLOOR CLEANOUT	SCFM	STANDARD CUBIC FEET PER MINUT
FD	FLOOR DRAIN	SD	STORM DRAIN
FDC	FIRE DEPARTMENT CONNECTION	SF	SQUARE FOOT
FF	FINISHED FLOOR	SFU	SUPPLY FIXTURE UNIT
FLA	FULL LOAD AMPS	SH	SHOWER
FM	FORCE MAIN	S.O.V.	SHUTOFF VALVE
FO	FAIL OPEN	SPEC	SPECIFICATION
FP	FIRE PROTECTION	S/S, OR SS	STAINLESS STEEL
FPM	FEET PER MINUTE	STD	STANDARD
FPS	FEET PER SECOND	SYM	SYMBOL
FS	FLOOR SINK		
FSZV	FIRE SPRINKLER ZONE VALVE ASSEMBLY	T&P	TEMPERATURE AND PRESSURE RELIEF VALVE
FT	FEET/FOOT	TBD	TO BE DETERMINED
FTG	FOOTING	TD	TRENCH DRAIN
FV	FLUSH VALVE	TEMP	TEMPERATURE
		TOB	TOP OF BEAM
G	NATURAL GAS	TOC	TOP OF CONCRETE
GA	GAUGE	TOD	TOP OF DECK
GAL	GALLON	TOJ	TOP OF JOIST
G.C.	GENERAL CONTRACTOR	TOS	TOP OF SLAB/TOP OF STEEL
GCO	GRADE CLEANOUT	TP	TRAP PRIMER
GD	GARAGE DRAIN	T&P	TEMPERATURE & PRESSURE
GPF	GALLONS PER FLUSH	TYP	TYPICAL
GPH	GALLONS PER HOUR		
GPM	GALLONS PER MINUTE	UL	UNDERWRITERS LABORATORY
GW	GREASE WASTE	UNO	UNLESS NOTED OTHERWISE
		UR	URINAL
H	HEIGHT		
HB	HOSE BIBB	V	VENT(S)
HBVB	HOSE BIBB VACUUM BREAKER	V	VOLT
HD	HEAD	VERT	VERTICAL
HP	HORSEPOWER	VFD	VARIABLE FREQUENCY DRIVE
HS	HAND SINK	VIB	VALVE-IN-BOX
HW	HOT WATER	VTR	VENT THROUGH ROOF
HX	HEAT EXCHANGER		
		W	WASTE/WATER
IE	INVERT ELEVATION	W/	WITH
IN	INCH/INCHES	W/IN	WITHIN
		W/O	WITHOUT
KW	KILOWATT/KILOWATTS	WC	WATER CLOSET
		WCO	WALL CLEANOUT
LAV	LAVATORY	WH	WATER HEATER
LBS	POUNDS	WPD	WATER PRESSURE DROP
LF	LINEAL FOOT	WT	WEIGHT
LTG	LIGHTING		
LWT	LEAVING WATER TEMPERATURE	YCO	YARD CLEANOUT

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SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
FIRE STATION 65
4966 SOUTH 298TH STREET,
AUBURN, WA 98001

PROJECT # 17065

BID SET

ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE

COVER SHEET

SHEET:

P00.01

PLUMBING FIXTURE SCHEDULE

MARK	ITEM	MFR: MODEL	DESCRIPTION
WC-1	WATER CLOSET (ADA)	KOHLER: K-25077-SS	FLOOR-MOUNT, TANK TYPE, ELONGATED BOWL, TWO PIECE, 1.28 GPF, INSTALL WITH HANDLE ON OPEN SIDE OF RESTROOM RESTROOM PER ADA. ANTIMICROBIAL FINISH.
	SEAT	BEMIS: 1955 C	WHITE PLASTIC, OPEN FRONT, W/O COVER.
WC-2	WATER CLOSET	KOHLER: K-25087-SS	FLOOR-MOUNT, TANK TYPE, ELONGATED BOWL, TWO PIECE, 1.28 GPF, INSTALL WITH HANDLE ON OPEN SIDE OF RESTROOM. ANTIMICROBIAL FINISH.
	SEAT	BEMIS: 1955C	WHITE PLASTIC, OPEN FRONT, W/O COVER.
LAV-1	LAVATORY (ADA)	KOHLER: K-2005	21-1/4" X 18-1/8", WALL MOUNT, VIT. CHINA, 3 HOLES ON 4" CTRS, WHITE, CONCEALED ARM CARRIER, ADA.
	FAUCET	SYMMONS: S-20-2-0.5	4 1/2" SPOUT, 0.5 GPM AERATOR, SGL. LEVER HANDLE, 4" CTRS, CHROME PLATE, POP-UP DRAIN, VANDAL RES. ADA
	DRAIN		INSULATE DRAIN AND STOPS PER ADA REQUIREMENTS
	INSTANTANEOUS WATER HEATER	EEMAX ACCUMIX II AM004120T	POINT-OF-USE, ELECTRIC WATER HEATER, 4.8KW, 240V / 1PH, INTEGRATED ASSE 1070 MIXING VALVE, 0.3 GPM ACTIVATION, FACTORY SET AT 105 F
LAV-2	LAVATORY	KOHLER: K-2210	19-1/4" X 16-1/4" OVAL, UNDERMOUNT, VIT. CHINA, WHITE.
	FAUCET	SYMMONS: S-20-2-1	4 1/2" SPOUT, 1.0 GPM AERATOR, SGL. LEVER HANDLE, 4" CTRS, CHROME PLATE, POP-UP DRAIN, VANDAL RES. ADA
	DRAIN		INSULATE DRAIN AND STOPS PER ADA REQUIREMENTS
	LAVATORY MIXING VALVE	SYMMONS: 7-210-CK-B	THERMOSTATIC MIXING VALVE, INTEGRAL CHECKS, 3/8" INLETS AND OUTLET, PROVIDE WHITE ENAMEL WALL CABINET AND MOUNT BELOW LAVATORIES. MUST COMPLY WITH ASSE 1070.
KS-1	KITCHEN SINK	ELKAY: DLR432212	43"X22"X12-1/8" DEEP, SINGLE COMPARTMENT, #18 GAUGE STAINLESS STEEL, SELF-RIMMING SOUND DEADENED. 3 HOLES SPACED TO FIT FAUCET, INSTA HOT/COLD FAUCET, AND DISHWASHER AIR GAP.
	FAUCET	T&S BRASS: MPZ-2DLN-06	6" SWING NOZZLE, 8" RISER, 24" FLEXIBLE STAINLESS STEEL HOSE, 1.42 GPM, SINGLE HOLE FAUCET.
	DRAIN		CRUMB CUP STRAINER, 1 1/2" TAILPIECE, STAINLESS STEEL.
	HOT/COLD WATER DISPENSER	INSINKERATOR: INVOLVE-HC	2/3 GALLON HOT WATER TANK, ADJUSTABLE TEMPERATURE, SELF CLOSING VALVE, BRASS FAUCET, PROVIDE F-1000S FILTRATION SYSTEM, 120 V. DIVISION 26 TO PROVIDE DEDICATED OUTLET UNDER SINK TO SERVE ONLY THE WATER DISPENSER TANK.

NOTE: CONTRACTOR SHALL VERIFY CABINET DIMENSIONS BEFORE ORDERING SINK.

MARK	ITEM	MFR: MODEL	DESCRIPTION
KS-2	KITCHEN PREP SINK (ADA)	ELKAY: LRAD191855	19"X18"X5-1/2" DEEP, SINGLE COMPARTMENT, #18 GAUGE STAINLESS STEEL, SELF-RIMMING SOUND DEADENED, 3 HOLES ON 4" CENTERS.
	FAUCET	CHICAGO: 201-AGN2AE3ABCP	11-5/8" HIGH X 5-3/8" SWINGING GOOSENECK, 2.2 GPM, LEVER HANDLES.
	DRAIN		CRUMB CUP STRAINER, 1 1/2" TAILPIECE, STAINLESS STEEL.

NOTE: CONTRACTOR SHALL VERIFY CABINET DIMENSIONS BEFORE ORDERING SINK.

S-1	SINK (DECON)	ELKAY: WNSF8248LR2	96" LONG X 27-1/2" DEEP, 14 GAUGE SS SCULLERY SINK, 2 COMPARTMENT, FULL LENGTH 8" HIGH BACKSPLASH, COMPARTMENT DIMENSIONS 24" X 24" X 14", 24" DRAIN BOARD ON LEFT AND RIGHT, TUBULAR LEGS, 1/4" RADIUS COVED CORNERS 2 HOLES ON 8" CENTERS.
	FAUCET	T & S BRASS: B-2187	WALL MOUNTED FITTING, 10" SWING SPOUT W/AERATOR, INDEXED LEVER HANDLES, 8" CTRS., PRE-RINSE FAUCET RUBBER HOSE & SPRAY VALVE.
	EMERGENCY EYE WASH	HAWS: 7610	DECK MOUNTED, ABS PLASTIC HEADS, 2.5 GPM FLOW CONTROLS,PULL DOWN ACTIVATIONS, UNIVERSAL EMERGENCY SIGN. PROVIDE WITH HAWS PREPACKAGED TEMPERED WATER SYSTEM MODEL 9201EFE. MOUNT EYEWASH ON BACKSPLASH ABOVE RIGHT BOWL IN LOCATION THAT DOES NOT CONFLICT WITH FAUCET AND ALLOWS HEADS TO BE ABOVE BOWL WHEN PULLED DOWN FOR USE.
	DRAIN	ELKAY: LK25RT	2" DIAMETER TAILPIECE, ROTARY LEVER OPERATED DRAIN OUTLET
SH-1	DECON SHOWER	SWANSTONE: SK-363696 & SS-3636	#SK-363696 SOLID SURFACE SHOWER WALLS 36" X 36" X 96", CUT WALLS PER MANUFACTURERS INSTRUCTIONS TO FIT 36"X36" SHOWER ALCOVE, VERIFY ALCOVE DIMENSIONS WITH ARCH. #SS-3636 SOLID SURFACE SHOWER PAN 36" X 36" VERIFY COLOR WITH ARCH.
	DRAIN		PERFORATED GRID STRAINER, CHROME.
HB-1	HOSE STATION (HOT & COLD)	LEONARD: SW-75-EVBD	INT. VACUUM BREAKER, DIAL THERMOMETER, 3/4" HOSE THREAD. PROVIDE LEONARD 18100 MOUNTING PLATE.
	HOSE	LEONARD: 10-HDH	10' HEAVY DUTY HOSE
	NOZZLE	LEONARD: N-2	STANDARD NOZZLE
FD-1	FLOOR DRAIN	ZURN: Z-415-S	2" C.I. BODY, 5" SQ. ADJ. NICKEL BRONZE STRAINER, TRAP PRIMER TAPPING. PROVIDE TRAP PRIMERS FOR ALL INSTALLATIONS EXCEPT SHOWERS. **REFER TO FLOOR DRAIN DETAIL FOR DRAIN CONST. &/OR COVERING.**
TD-1	TRENCH DRAIN	ZURN: Z874-E1-DGC	12" WIDE X 48" LONG X 16" DEEP SECTIONAL DRAIN. HIGH-DENSITY COMPOSITE CONST. W/ HEAVY-DUTY STEEL TOP FRAME & DUCTILE IRON SLOTTED GRATE. PROVIDE OPENING IN GRATE FOR EXTRACTOR DRAIN PROVIDE BOTTOM DOME STRAINER.

PLUMBING FIXTURE CONNECTION SCHEDULE

MARK	FIXTURE	PIPE SIZE C.W	H.W	WASTE	VENT	WATER FIXTURE UNITS	WASTE FIXTURE UNITS	REMARKS
WC-1	WATER CLOSET	1/2"	-	3"	2"	2.5	4	FLOOR MOUNT, TANK TYPE, ADA
WC-2	WATER CLOSET	1/2"	-	3"	2"	2.5	4	FLOOR MOUNT, TANK TYPE
LAV-1	LAVATORY	1/2"	1/2"	1-1/4"	1-1/4"	1	1	WALL MOUNT, ADA
LAV-2	LAVATORY	1/2"	1/2"	1-1/4"	1-1/4"	1	1	UNDERMOUNT
KS-1	SINK	1/2"	1/2"	2"	1-1/2"	1.5	2	KITCHEN SINK
KS-2	SINK	1/2"	1/2"	2"	1-1/2"	1.5	2	KITCHEN PREP SINK, ADA
S-1	SINK	1/2"	1/2"	2"	1-1/2"	2	2	DECON SINK
SH-1	SHOWER	-	-	2"	1-1/2"	-	2	DECON SHOWER
HB-1	HOSE BIBB	3/4"	3/4"	-	-	2.5	-	HOT AND COLD, DECON SHOWER
FD-1	FLOOR DRAIN	-	-	2"	2"	-	2	GENERAL
TD-1	TRENCH DRAIN	-	-	4"	2"	-	8	FOR EXTRACTOR

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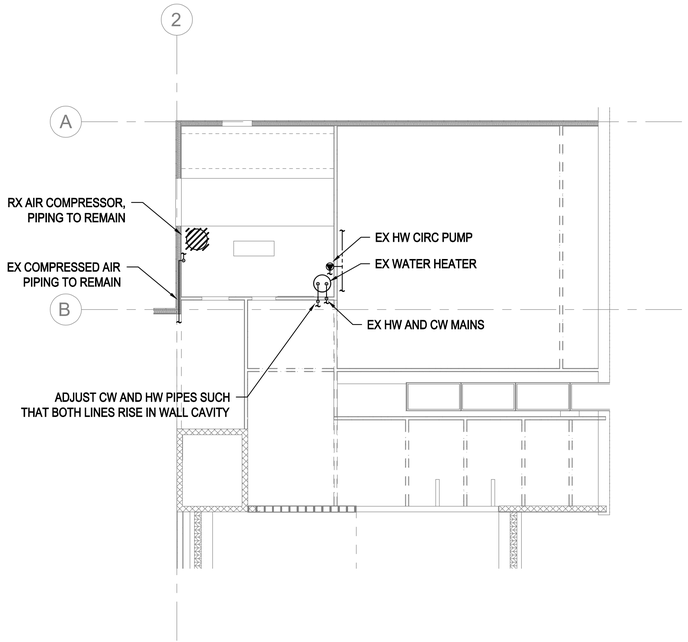
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REVISION SCHEDULE

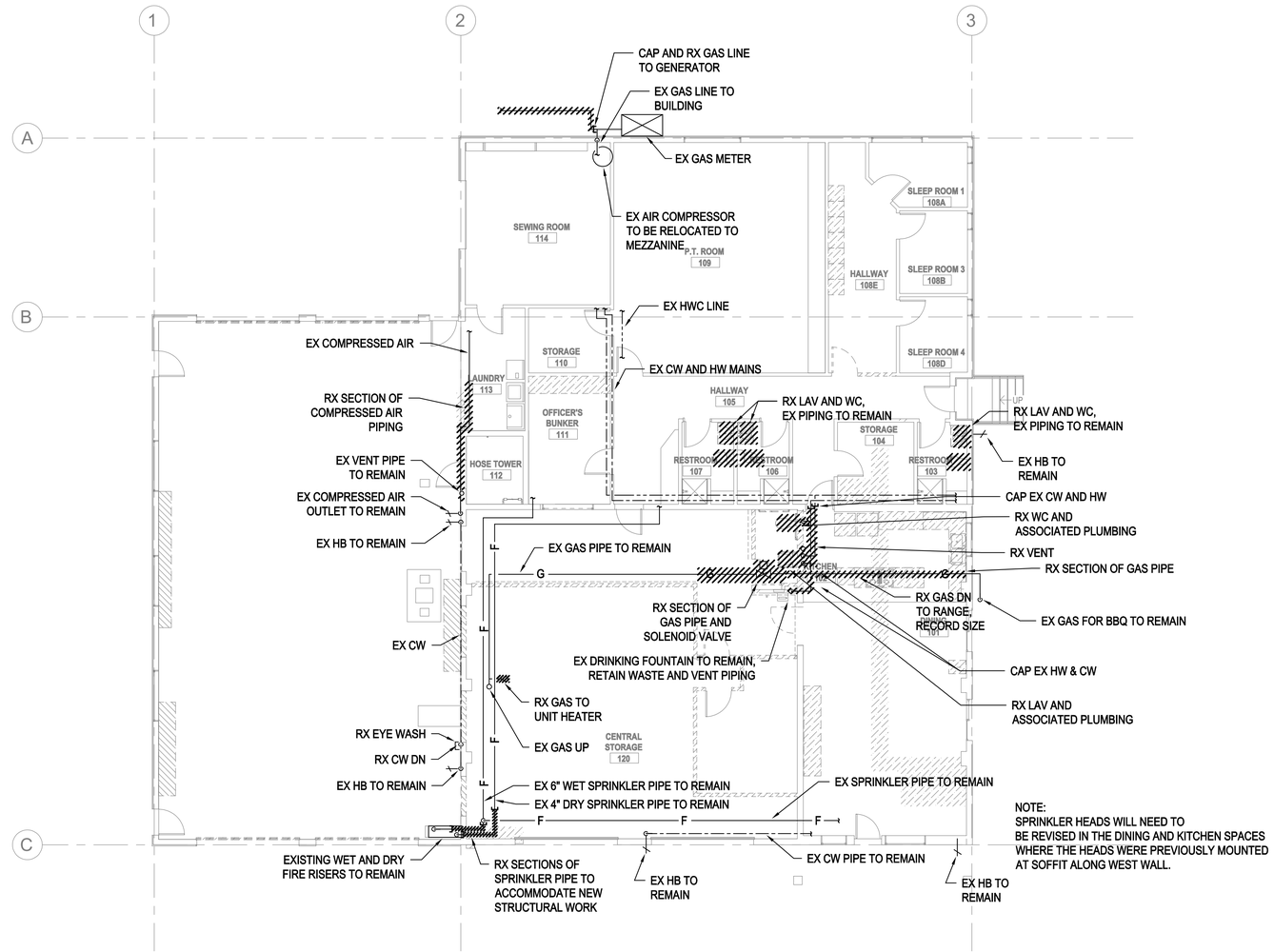
SCHEDULES

SHEET:

P00.02



DEMO MEZZANINE PLAN
SCALE: 1/8"=1'-0"



DEMO FLOOR PLAN
SCALE: 1/8"=1'-0"

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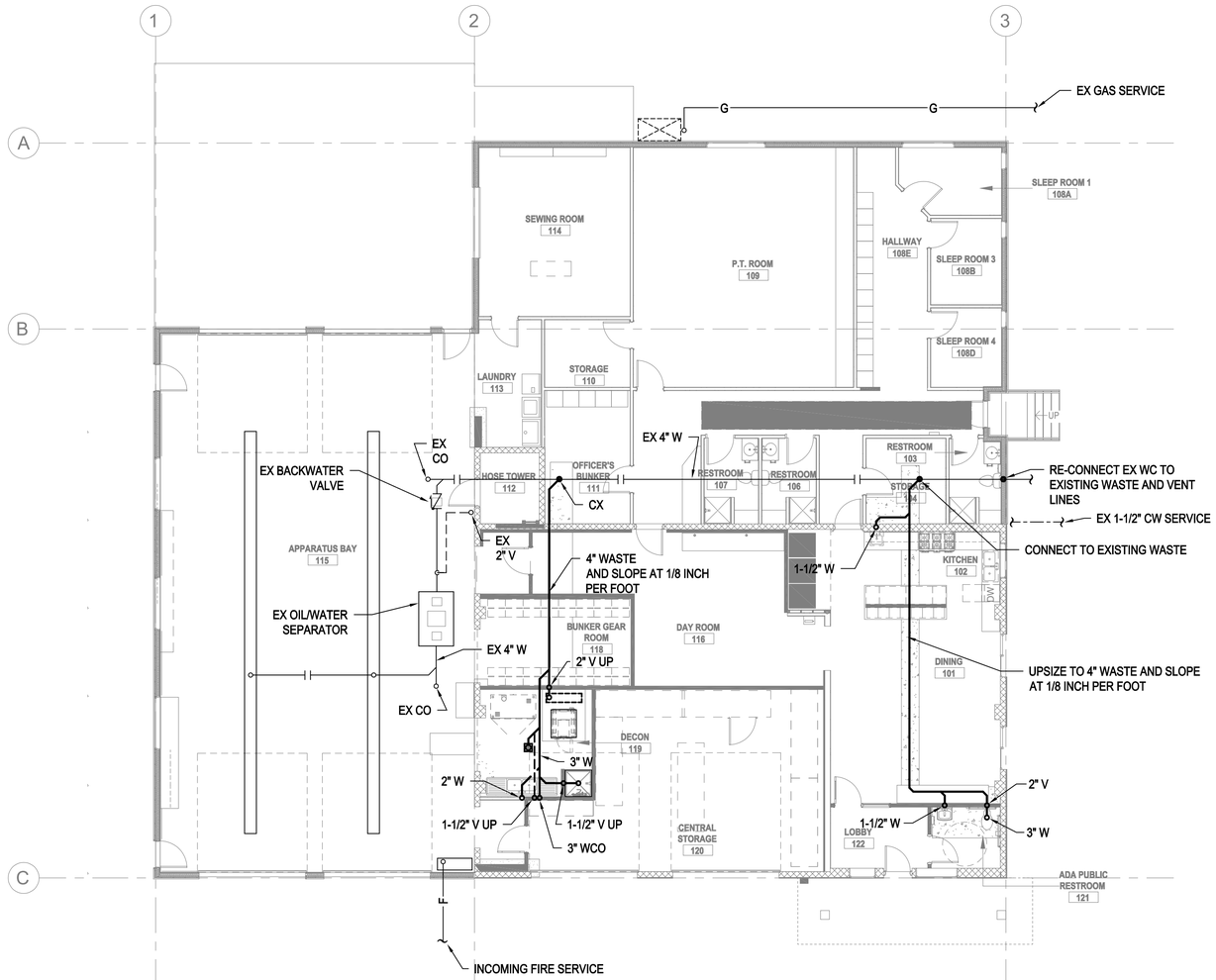
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REVISION SCHEDULE

DEMO PLAN

SHEET:

P21.01



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

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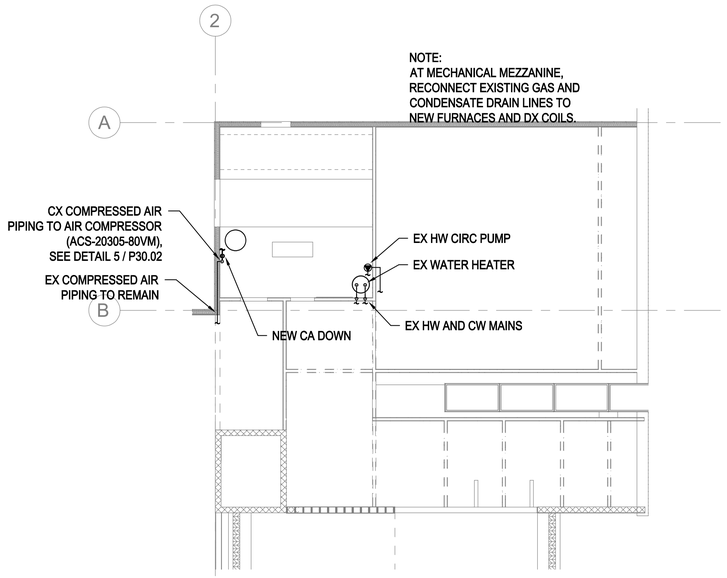
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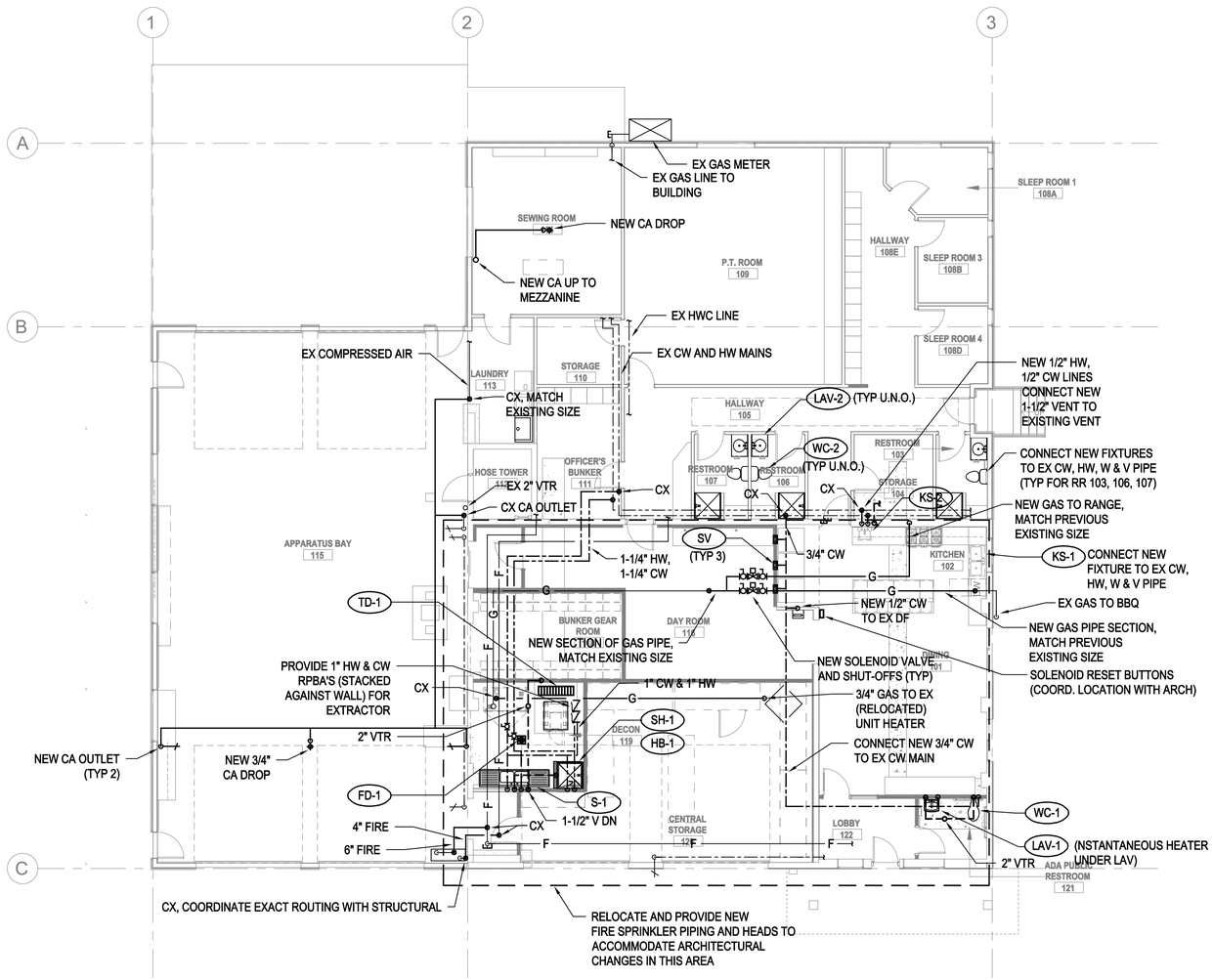
FOUNDATION PLAN

SHEET:

P21.10



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



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

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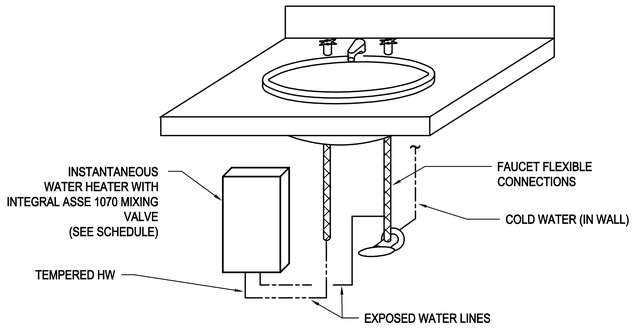
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FLOOR PLAN

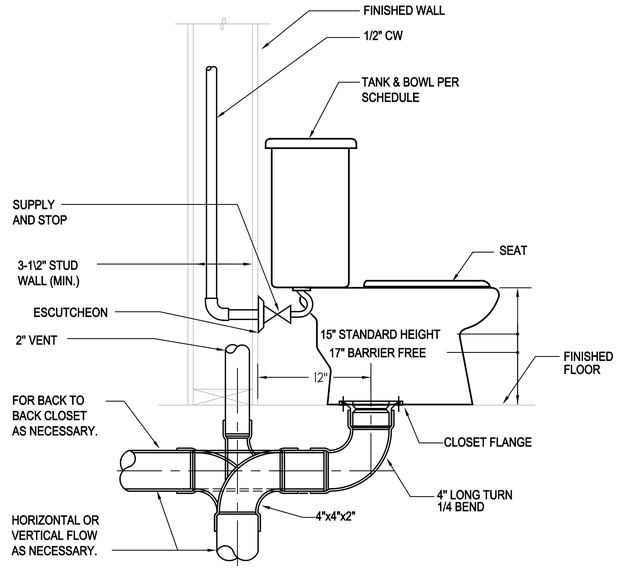
SHEET:
P21.11



NOTES:
1. PROVIDE INSULATED P-TRAP AND SUPPLY COVERS AT ALL EXPOSED P-TRAPS AND SUPPLIES PER ADA STANDARDS.
2. HOT WATER PIPING TO MEET ENERGY CODE REQUIREMENTS FOR PUBLIC LAVATORY.

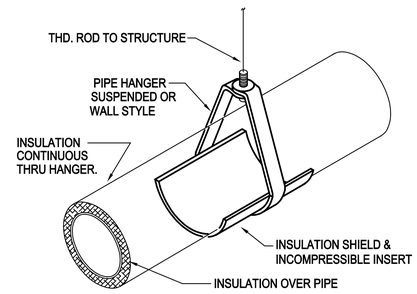
NEW PUBLIC LAVATORY WATER CONNECTION DETAIL

1 / P30.01 N.T.S.



WATER CLOSET DETAIL

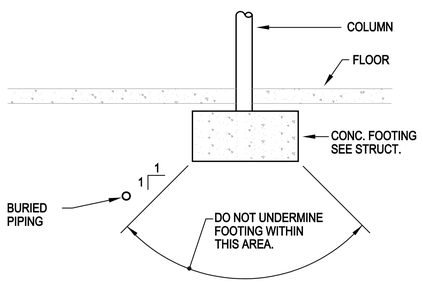
2 / P30.01 N.T.S.



NOTE:
INSULATE & LABEL PIPING PER. SPEC.

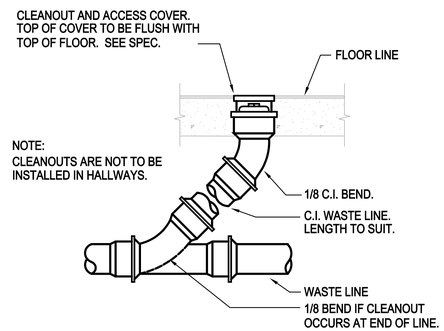
PIPE HANGER DETAIL

3 / P30.01 N.T.S.



BURIED PIPING DETAIL

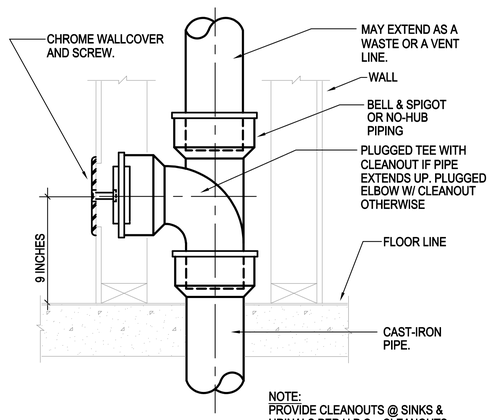
4 / P30.01 N.T.S.



NOTE:
FOR GRADE CLEANOUTS (GCO) IN VEHICULAR TRAFFIC AREAS, PROVIDE ACCESS HOUSING EQUAL TO WADE # 8300 MF-39.

FLOOR CLEANOUT DETAIL

5 / P30.01 N.T.S.

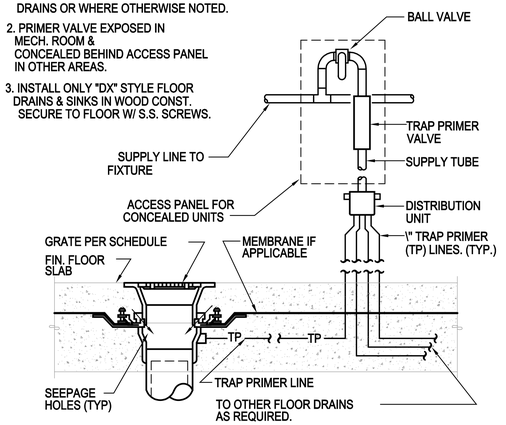


NOTE:
PROVIDE CLEANOUTS @ SINKS & URINALS PER U.P.C.. CLEANOUTS SHALL BE LOCATED BELOW FIXTURE.

WALL CLEANOUT DETAIL

6 / P30.01 N.T.S.

NOTES:
1. PROVIDE TRAP PRIMERS ON ALL FLOOR DRAINS & FLOOR SINKS EXCEPT SHOWER DRAINS OR WHERE OTHERWISE NOTED.
2. PRIMER VALVE EXPOSED IN MECH. ROOM & CONCEALED BEHIND ACCESS PANEL IN OTHER AREAS.
3. INSTALL ONLY "DX" STYLE FLOOR DRAINS & SINKS IN WOOD CONST. SECURE TO FLOOR W/ S.S. SCREWS.



TRAP PRIMER DETAIL

7 / P30.01 N.T.S.

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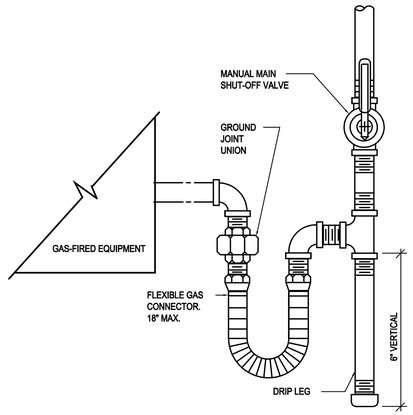
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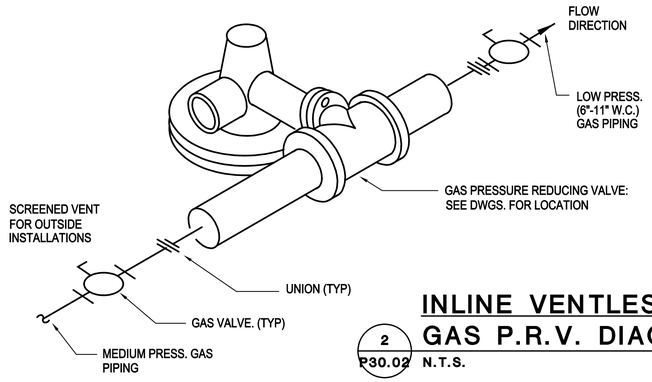
PROJECT # 17065
BID SET
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PLUMBING DETAILS

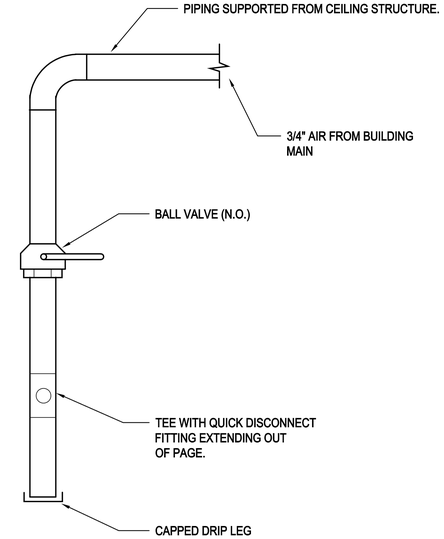
SHEET:
P30.01



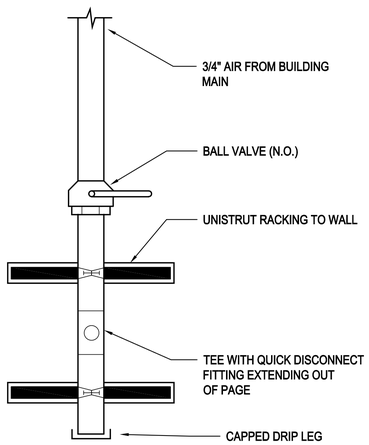
1 GAS LINE CONNECTION DETAIL
P30.02 N.T.S.



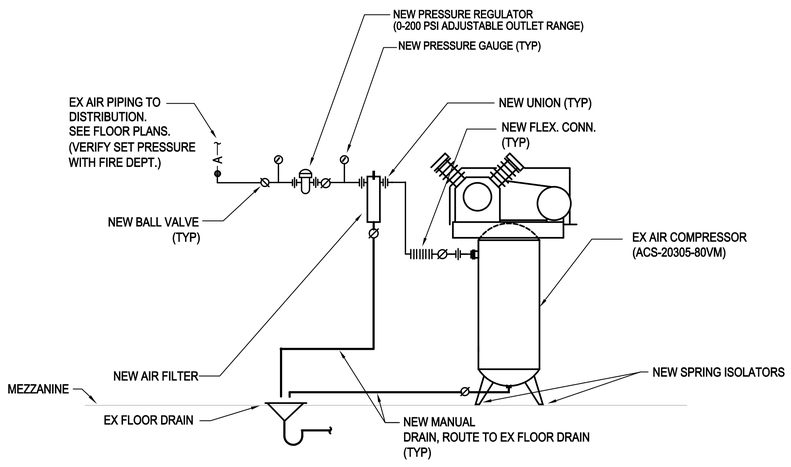
2 INLINE VENTLESS GAS P.R.V. DIAGRAM
P30.02 N.T.S.



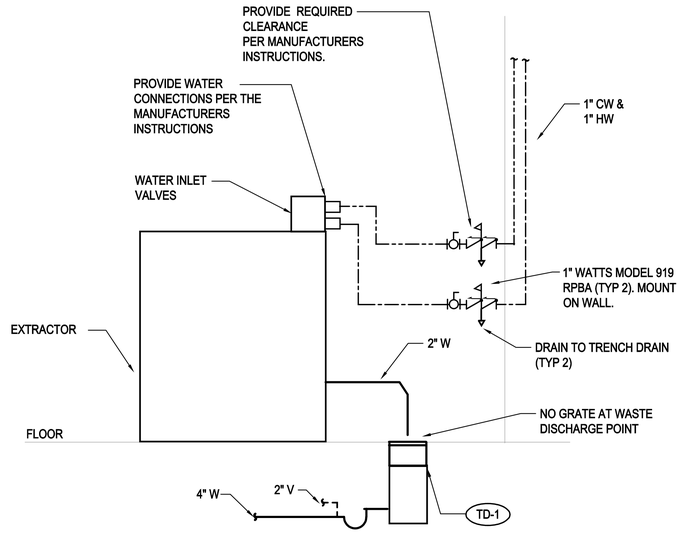
3 OVERHEAD AIR DROP DETAIL
P30.02 N.T.S.



4 WALL AIR DROP DETAIL
P30.02 N.T.S.



5 AIR COMPRESSOR DETAIL
P30.02 N.T.S.



6 EXTRACTOR DETAIL
P30.02 N.T.S.

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SHEET:
P30.02

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	LIGHTING
	RECESSED LIGHT FIXTURE
	SURFACE OR PENDANT MOUNT LIGHT FIXTURE (CIRCLE INDICATES RECESSED OR CONCEALED JUNCTION BOX)
	WALL MOUNT LIGHT FIXTURE
	WALL SCONCE LIGHT FIXTURE
	SURFACE OR RECESSED LIGHT FIXTURE
	SURFACE OR RECESSED LIGHT FIXTURE
	SURFACE OR PENDANT MOUNT STRIP LIGHT (CIRCLE INDICATES RECESSED OR CONCEALED JUNCTION BOX)
	EGRESS FIXTURE WITH EMERGENCY BATTERY PACK. PROVIDE UNSWITCHED HOT LEG.
	EXIT LIGHT FIXTURE (PROVIDE DIRECTION ARROWS AS INDICATED) PROVIDE UNSWITCHED HOT LEG.
	WALL MOUNTED EXIT LIGHT FIXTURE (PROVIDE DIRECTION ARROWS AS INDICATED) PROVIDE UNSWITCHED HOT LEG.
	EQUIPMENT, WIRING AND RACEWAYS
	CONDUIT STUB OUT (PROVIDE CONCRETE MARKER ON EXTERIOR)
	DEDICATED CONDUIT HOMERUN TO PANEL & CIRCUIT NUMBERS AS INDICATED ON PLANS
	RACEWAY CONCEALED IN WALL OR CEILING
	RACEWAY CONCEALED UNDERGROUND
	MARKS INDICATE NUMBER OF #12 AWG UNLESS NOTED OTHERWISE
	GROUNDING CONDUCTOR
	FLEXIBLE CONDUIT
	GROUNDING SYSTEM PER CODE
J	JUNCTION BOX - SIZE PER CODE (F INDICATES FIRE ALARM SYSTEM)
	MOTOR CONNECTION
$M	MANUAL STARTER
	FUSED DISCONNECT SWITCH
	120/208 VOLT PANELBOARD (OR AT RATED VOLTAGE AS NOTED)
	EXISTING PANELBOARD TO BE RETAINED
	MAIN DISTRIBUTION BOARD
	ENCLOSED CIRCUIT BREAKER, AMPERES AS INDICATED
M	METER
	RECEPTACLES
	DUPLEX RECEPTACLE (E INDICATES EXISTING TO BE REPLACED)
G	DUPLEX RECEPTACLE (G INDICATES GROUND FAULT CIRCUIT INTERRUPTER)
C	DUPLEX RECEPTACLE (C INDICATES ABOVE COUNTER)
	FOURPLEX RECEPTACLE
	SPECIAL PURPOSE OUTLET - 1Ø, VOLTAGE AND AMPERES AS INDICATED

SYMBOL	DESCRIPTION
	SWITCHES
$	SINGLE POLE SWITCH
$T	DIGITAL TIMMER SWITCH
$K	SINGLE POLE KEYED SWITCH
$LV	DIGITAL LOW VOLTAGE SWITCH 'ON'/'OFF'
$D LV	DIGITAL LOW VOLTAGE DIMMER SWITCH 'ON'/'OFF' ; UP/DOWN
$VS	COMBINATION SWITCH / VACANCY SENSOR
D $VS	DIMMING OCCUPANCY LINE VOLTAGE WALL SWITCH
OS	LINE VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR (LIGHTING CONTROL) WITH POWER PACK
VS	LINE VOLTAGE CEILING MOUNTED VACANCY SENSOR (LIGHTING CONTROL) WITH POWER PACK
OS LV	CEILING MOUNTED OCCUPANCY SENSOR ON LOW VOLTAGE LIGHTING CONTROL SYSTEM
PC	PHOTOCELL CONTROL
	MISCELLANEOUS
1	CONSTRUCTION NOTES
1	DEMOLITION NOTES
W	W INDICATES WEATHERPROOF FOR ALL DEVICES, PROVIDE LOCKING COVER ON RECEPTACLES.
$	ALL DEVICES WITH LIGHT LINE WEIGHT INDICATES EXISTING TO BE RETAINED
$	ALL DEVICES WITH DASH LINE INDICATES EXISTING TO BE REMOVED
A / X	DETAIL CALL OUT - A INDICATES DETAIL IDENTIFICATION, X INDICATES SHEET DRAWN ON
AH1 / 1	MECHANICAL EQUIPMENT CONNECTION
	SYSTEMS
C	DATA OUTLET - PROVIDE 4S BACKBOX (NEW WALLS), SINGLE GANG MUDRING, (1) 1" CONDUIT TO NEAREST ACCESSIBLE CEILING, (2) CATEGORY 6 DATA JACKS WITH 2-PORT FACEPLATE, AND CATEGORY 6 CABLES - WALL MOUNTED AT 18" AFF UNLESS SHOWN OTHERWISE. HOMERUN CABLES TO THE MDF. TERMINATE CABLES ON NEW PATCH PANELS IN OFOI RACK AND PROVIDE 10' OF COILED CABLING AT THE RACK LOCATION. (C INDICATES COUNTER OUTLET - MOUNT ABOVE COUNTER/BACKSPLASH) SEE E701 FOR OUTLET REQUIREMENTS.
	PROVIDE (2) CATEGORY 6 DATA CEILING MOUNTED DATA JACKS FOR WIRELESS ACCESS POINT. IN ACCESSIBLE CEILINGS MOUNT TO BOTTOM OF STRUCTURE OR IN CEILING SPACE. IN HARD-LID AREAS PROVIDE (1) 4S DEEP BACK BOX, SINGLE GANG MUDRING, COVER, AND (1) 1" CONDUIT TO THE NEAREST ACCESSIBLE CEILING SPACE. TERMINATE CABLES ON NEW PATCH PANELS IN OFOI RACK AND PROVIDE 10' OF COILED CABLING AT THE RACK LOCATION. SEE E701 FOR OUTLET REQUIREMENTS.
	OFOI 2-POST TELECOMMUNICATIONS RACK
	OFOI WALL MOUNT 21RU SWINGING/HINGED TELECOMMUNICATIONS RACK
DEMARC	DEMARCATION POINT FOR TELECOMMUNICATIONS SERVICES BY OWNER.
TGMB	TELECOMMUNICATIONS MAIN GROUND BUSS BAR BY DIV.26/27 CONTRACTORS PER SPEC.
ACP	ACCESS CONTROL PANEL AND TERMINATIONS - OFOI. CABLING BY DIV.26 CONTRACTOR.
ACPS	ACCESS CONTROL PANEL POWER SUPPLY AND TERMINATIONS - OFOI. CABLING BY DIV.26 CONTRACTOR.
EDPS	ELECTRIFIED EXIT DEVICE POWER SUPPLY AND TERMINATIONS - OFOI. CABLING BY DIV.26 CONTRACTOR.
REX	REQUEST TO EXIT MOTION SENSOR AND TERMINATIONS - OFOI. CABLING BY DIV.26 CONTRACTOR.
D	MAGNETIC DOOR POSITION SWITCH AND TERMINATIONS - OFOI. CABLING BY DIV.26 CONTRACTOR.
CR	PROXIMITY CARD READER - WALL MOUNT TO SINGLE GANG BOX FLUSH TO WALL SURFACE AND TERMINATIONS - OFOI. CABLING BY DIV.26 CONTRACTOR. (L INDICATES LONG RANGE READER, M INDICATES MULLION MOUNT, ST INDICATES MOUNTED ON A STANCHION/BOLLARD)
ED	ELECTRIC EXIT DEVICE. SEE DOOR HARDWARE SCHEDULE FOR DEVICE USED ON EACH DOOR AND TERMINATIONS - OFOI. CABLING BY DIV.26 CONTRACTOR.
C	EXTERIOR FIXED CAMERA - WALL MOUNT - OFOI. COORDINATE WITH OWNER FOR EXACT HEIGHT PRIOR TO ROUGH-IN. MAINTAIN THE TELECOMMUNICATIONS OUTLET REQUIREMENTS.
S	CEILING MOUNTED ALERT & PAGING SYSTEM SPEAKER
V	WALL MOUNTED VOLUME CONTROL - MOUNT AT +48" - AFF. PROVIDE 4S BACKBOX (NEW WALLS), SINGLE GANG MUDRING, (1) 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING
TV	CATV OUTLET OUTLET - WALL MOUNT OUTLET AT HEIGHT SHOWN. PROVIDE 4S BACKBOX (NEW WALLS), SINGLE GANG MUDRING, (1) 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING AND (1) RG-6 CABLE WITH F-CONNECTOR. HOMERUN CABLE TO THE MDF, PROVIDE 10' SERVICE LOOP, TERMINATE AND PROVIDE CATV DISTRIBUTION/SPLITTER. **TV'S AND MOUNT'S ARE OFOI.**
CB	EXISTING CALL BOX, INTEGRATED DOOR BELL AND SIGNAGE - WALL MOUNT AT NEW LOCATION AT +48" AFF MAXIMUM TO OPERATING DEVICE. COORDINATE WITH GC FOR EXTERIOR AND FINISH INSTALLATION. SEE ED-141 AND E-141 FOR MORE INFO.

ABBREVIATIONS

G	GROUND FAULT CIRCUIT INTERRUPTER	UC	UNDERCOUNTER
C	MOUNT ABOVE COUNTER	UG	UNDERGROUND
DW	DISHWASHER	C.	CONDUIT
EC	ELECTRICAL CONTRACTOR	CO	CONDUIT ONLY
MC	MECHANICAL CONTRACTOR	GR	GROUND
REQ'D	REQUIRED	SPD	SURGE PROTECTIVE DEVICE
TTB	TELEPHONE TERMINAL BOARD	CU	COPPER
MW	MICROWAVE	XFMR	TRANSFORMER
REF	REFRIGERATOR	GC	GENERAL CONTRACTOR
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	OFCI	OWNER FURNISH CONTRACTOR INSTALLED
C-##	CCTV CAMERA SYSTEM IP CAMERA TAG	D-##	ACCESS CONTROL SYSTEM DOOR TAG
RGS	RIGID GALVANIZED STEEL CONDUIT		

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PROJECT # 2015137
BID SET
ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE

ELECTRICAL LEGEND

SHEET:
E-001

GENERAL NOTES

1. PRIOR TO BIDING, THE CONTRACTOR/INSTALLING VENDOR SHALL VERIFY ALL CMU/CONCRETE WALLS, BRICK WALLS, EXISTING UNDERGROUND CONDUIT CAPACITIES, CABLE ROUTING AND ALL WORK REQUIRED TO FACILITATE A COMPLETE AND FULLY FUNCTIONAL SYSTEM. ALL WALLS SHALL BE CORE DRILLED AS REQUIRED.

2. BIDS SHALL INCLUDE ALL CORE DRILLING REQUIRED TO FACILITATE ALL CONDUIT WORK. THE CONTRACTOR/INSTALLING VENDOR SHALL X-RAY THE EXISTING CONCRETE SLABS AND WALLS PRIOR TO CORE DRILLING. CORE DRILLED HOLES SHALL NOT PENETRATE THROUGH ANY EXISTING REBAR AND/OR CONDUIT CONTAINED IN THE EXISTING CONCRETE SLAB AND WALLS. CORE DRILL LOCATIONS MAY NEED TO BE MODIFIED TO ACCOMMODATE EXISTING OBSTRUCTIONS CONTAINED WITHIN THE FLOOR AND WALLS. NEVER CORE DRILL A STRUCTURAL BEAM OR MODIFY THE STRUCTURAL INTEGRITY OF THE BUILDING.

3. CONTRACTOR SHALL REFER TO STRUCTURAL DRAWINGS FOR BRACE FRAMED WALLS. CONTRACTOR SHALL MOUNT DEVICES AND ROUTE CONDUIT SO AS NOT TO INTERFERE WITH THE STRUCTURAL INTEGRITY OF THE WALL.

4. CONDUITS ARE NOT ALLOWED TO BE ROUTED IN ANY CONCRETE SLAB. CONDUITS MAY BE ROUTED UNDER THE SLAB ONLY.

5. ALL CONDUITS ROUTED UNDER THE CONCRETE SLAB SHALL BE ROUTED PARALLEL TO ONE ANOTHER AND MAY NOT CROSS OVER EACH OTHER UNLESS SPECIFICALLY ALLOWED BY THE ENGINEER.

6. ALL SPARE CONDUITS (FOR FUTURE USE) SHALL BE LABELED “SPARE/FUTURE CONDUIT” AT EACH END OF THE CONDUIT WITH 1/2" TALL LETTERS, USING A PERMANENT MARKER.

7. ALL CABLING SHALL BE RUN IN CONDUIT AND CONDUIT SHALL BE RUN PARALLEL OR PERPENDICULAR TO THE STRUCTURE. THE CONTRACTOR/INSTALLING VENDOR SHALL COORDINATE ALL CONDUIT ROUTING WITH THE OWNER. NEATLY SURFACE MOUNT EXPOSED CONDUIT.

8. ALL OUTLETS, SWITCHES, AND DEVICES MOUNTED BACK TO BACK IN A WALL MUST BE SPACED A MINIMUM OF 24” APART TO MEET ACOUSTICAL REQUIREMENTS.

9. THE CABLING AND EQUIPMENT REQUIREMENTS FOR ALL SYSTEMS SHALL BE INCLUDED IN THE CONTRACTOR'S/INSTALLING VENDOR'S BID.

10. WHEN PENETRATING FIRE RATED WALLS, FLOORS, OR CEILINGS, THE CONTRACTOR/ INSTALLING VENDOR SHALL UTILIZE FIRE RATED PENETRATION METHODS. THE FIRE RATING OF THE WALL SHALL BE MAINTAINED AFTER THE CONDUIT OR WIREWAY HAS BEEN INSTALLED.

11. REPAIRS FOR ANY DAMAGE DONE DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO REPAIRS WHERE EXISTING DEVICES ARE REMOVED, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR/INSTALLING VENDOR AT NO ADDITIONAL COST TO THE OWNER.

12. CONTRACTOR/INSTALLING VENDOR MAY UTILIZE ANY SPARE OR ABANDONED CONDUIT PER OWNERS APPROVAL.

13. PANEL DESIGNATIONS AND CIRCUIT NUMBERS ARE ONLY INDICATED ON THE DRAWINGS FOR REFERENCE BY THE ELECTRICAL CONTRACTOR. THE E.C. IS RESPONSIBLE TO PROVIDE ALL CONDUIT, WIRING, JUNCTION BOXES AND MISCELLANEOUS ACCESSORIES TO ACCOMMODATE INSTALLATION AND CONNECTION OF ALL DEVICES INDICATED ON THE CONTRACT DOCUMENTS. ALL WIRING SHALL BE IN HARD CONDUIT BACK TO THE DESIGNATED PANELBOARD. MC TYPE CABLE IS NOT AN ACCEPTABLE WIRING METHOD. ALL JUNCTION BOXES SHALL BE LABELED IDENTIFYING THE PANELBOARD AND CIRCUIT CONTAINED WITHIN. THERE SHALL BE NO MORE THAN (3) CIRCUITS PER HOMERUN. MULTI-WIRE CIRCUITS ARE NOT ALLOWED. EACH CIRCUIT SHALL CONTAIN A DEDICATED NEUTRAL UNLESS SPECIFICALLY ALLOWED BY THE ENGINEER. ALL WIRING SHALL BE SIZED ACCORDING TO AMPACITY OF THE CIRCUIT BREAKER INDICATED ON THE PANEL SCHEDULES. ALL CONDUIT SHALL BE SIZED PER NEC CODE BASED ON THE CONDUCTOR SIZE, TYPE, QUANTITY AND MINIMUM FILL REQUIREMENTS. CIRCUITS OVER 120 FEET FOR 120V AND 250' FOR 277V SHALL BE UP SIZED ONE WIRE SIZE TO ACCOUNT FOR VOLTAGE DROP. E.C. IS RESPONSIBLE TO SHOW ALL JUNCTION BOX LOCATIONS, CONDUIT ROUTING AND HOMERUNS ON A SET OF AS-BUILT DRAWINGS

14. SEE ALL DETAIL SHEETS AND RISER DIAGRAMS FOR ADDITIONAL WORK REQUIRED BY SECTION 272000.

15. WHERE OPEN CABLING IS PERMITTED BY CODE, EACH LOW VOLTAGE SYSTEM SHALL HAVE THEIR CABLES SUSPENDED SEPARATE FROM OTHER LOW VOLTAGE SYSTEMS (I.E. FIRE ALARM CABLES IN ONE J-HOOK, INTRUSION ALARM IN ANOTHER J-HOOK, AND SO ON). ALL CABLES MUST BE ROUTED IN CONDUIT IN AREAS WITH EXPOSED CEILINGS.

16. ALL OUTLETS, SWITCHES AND DEVICES MOUNTED BACK TO BACK IN A WALL, MUST LOCATED IN SEPARATE STUD BAYS, OR FURNISHED WITH SOUND ATTENUATING MATERIAL AROUND THE BOX TO MEET ACOUSTICAL REQUIREMENTS.

17. ALL TYPICAL DEVICES SHALL BE MOUNTED AT CONSISTENT LOCATIONS AND HEIGHTS THROUGHOUT THIS PROJECT, UNLESS NOTED OTHERWISE.

18. SEE THE SITE PLANS FOR ADDITIONAL WORK.

19. CAMERAS SHALL BE LOCATED AS SUCH TO AVOID RESTRICTING THE CAMERAS FIELD OF VIEW FROM: EXIT SIGNS, LIGHTING, DOOR HEADERS, BUILDING FEATURES, BANNERS, OR OTHER (ART) ITEMS HANGING FROM THE CEILING.COORDINATE WITH ALL TRADES AS REQUIRED PRIOR TO ROUGH-IN.

20. SEE THE ACCESS CONTROL SYSTEM RISER DIAGRAM, RELATED DETAIL SHEETS, AND THE ELECTRICAL LEGEND, FOR EQUIPMENT THAT IS NOT SHOWN ON THE FLOOR PLANS, BUT SHALL BE PROVIDED AND INSTALLED FOR THIS PROJECT.

21. ALL TELECOMMUNICATIONS OUTLETS HORIZONTAL CABLING SHALL BE ROUTED TO THE CLOSEST TELECOMMUNICATIONS ROOM AS REQUIRED BY SECTION 272000.

22. REVIEW ALL EXTERIOR MOUNTED EQUIPMENT FOR AIR BARRIER PENETRATIONS. SEE ARCHITECTURAL DETAILS FOR REQUIREMENTS ON MAINTAINING THE BUILDING'S ENVELOPE.

23. ALL EXTERIOR PENETRATIONS ARE TO BE DRILLED CAREFULLY FROM THE OUTSIDE THROUGH THE GYP-CRETE SIDING/PANELING WITH EVERY EFFORT POSSIBLE MADE TO AVOID DAMAGE BEYOND THE INTENDED PENETRATION. CORE DRILL WHERE REQUIRED. GC SHALL REPAIR, PATCH AND PAINT WHERE FURTHER DAMAGE OCCURS.

GENERAL DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INCLUDE IN HIS/HER BID ALL COSTS ASSOCIATED WITH NECESSARY DEMOLITION TO ALLOW NEW CONSTRUCTION SHOWN IN CONTRACT DOCUMENTS, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, LIGHTING FIXTURES, DEVICES, ABANDONED RACEWAYS, CONDUCTORS, TOGETHER WITH ANY AUXILIARY ITEMS TO ALLOW NEW CONSTRUCTION AND FINISH TO OCCUR AS COMPLIMENTED BY THE CONTRACT DOCUMENTS. DASHED LINES INDICATE EXISTING DEVICES AND EQUIPMENT TO BE REMOVED.

2. THESE PLANS DELINEATE THE BASIC SCOPE OF WORK FOR THE REMOVAL OF EXISTING MATERIAL. THE DEMOLITION DRAWINGS AND NOTES ARE PROVIDED WITH THE INTENT TO GENERALLY DESCRIBE AREAS AND LIMITS OF WORK. THE CONTRACTOR SHALL BE FAMILIAR WITH THE SITE AND CONDITIONS THERE AND SHALL NOT RELY SOLELY ON REVIEW OF THE BIDDING DOCUMENTS IN DETERMINING THE EXTENT OF DEMOLITION WORK REQUIRED. COORDINATION OF THESE DRAWINGS WITH REQUIREMENTS FOR CONTRACT WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. DISCREPANCIES BETWEEN OR WITHIN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL PROVIDE CLARITY SKETCHES, DIAGRAMS, AND FIELD DIMENSTIONS OF EXISTING CONDITIONS AT THE REQUEST OF THE ENGINEER IF/WHEN CONFLICTS ARE IDENTIFIED.

3. E.C. TO REMOVE ELECTRICAL CONNECTIONS TO ALL MECHANICAL EQUIPMENT TO BE DEMOLISHED. E.C. SHALL CHECK ALL DEMOLITION PLANS AND ACTUAL FIELD CONDITIONS FOR UNIT LOCATIONS. ALL CONDUITS PENETRATING THROUGH THE ROOF AND ACCESSIBLE SHALL BE REMOVED.

4. THE DEMOLITION PLANS HAVE NO INTENT TO SHOW ALL ELECTRICAL DEVICES TO BE REMOVED. ELECTRICAL CONTRACTOR SHALL VERIFY DEMOLITION WORK INVOLVED PRIOR TO BID.

5. REMOVE ALL ELECTRICAL AND SIGNALING DEVICES (INCLUDING, BUT NOT LIMITED TO REMOVAL OF ALL ELECTRICAL PANELS, LIGHTING FIXTURES, RECEPTACLES, MOTOR DISCONNECTS, FIRE ALARM AND OTHER LOW VOLTAGE DEVICES). UNLESS NOTED OTHERWISE.

6. REMOVE ALL WIRES, CABLES AND SURFACE MOUNT RACEWAYS AND APPURTENANCES WHICH SERVE DEVICES BEING REMOVED, CUT CONDUIT FLUSH TO CEILING OR WALL WHEN CONCEALED, AND SEAL OFF WITH SPRAY FOAM. ABANDON FLUSH BOXES AND NON-ACCESSIBLE CONDUIT. PROVIDE COVER PLATES FOR ALL BOXES TO REMAIN.

7. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR FOR ALL CUTTING, PATCHING AND FINISH WORK.

8. CONTRACTOR TO REMOVE AND DELIVER TO OWNER ALL DEVICES THAT ARE IDENTIFIED BY OWNER TO BE RETAINED. CONTRACTOR SHALL COORDINATE WITH OWNER TO ASSURE THAT ALL ITEMS TO BE RETAINED ARE IDENTIFIED PRIOR TO THE START OF DEMOLITION. ALL ITEMS NOT SO IDENTIFIED SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSE OF OFF SITE.

9. FIELD VERIFY EXISTING CONDITIONS AND RACEWAYS CAST IN CONCRETE.

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PROJECT # 2015137

BID SET

ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE

ELECTRICAL NOTES

SHEET:

E-002

GENERAL NOTES FOR LIGHTING FIXTURE SCHEDULE

1. SEE DRAWINGS FOR EMERGENCY LIGHTING FIXTURES.

2. FOR LIGHTING CONTROLS WHICH INCLUDE DAYLIGHT, OCCUPANCY SENSORS AND TIME CLOCK CONTROLS, THE ELECTRICAL CONTRACTOR SHALL PROVIDE TESTING OF THE CONTROL DEVICES, COMPONENTS, EQUIPMENT AND SYSTEMS TO MAKE SURE THEY ARE CALIBRATED, ADJUSTED AND OPERATE IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS. SEQUENCES OF OPERATION SHALL BE FUNCTIONALLY TESTED IN THE PRESENCE OF THE ENGINEER. A COMPLETE REPORT OF TEST PROCEDURES AND RESULTS SHALL BE PREPARED AND FILED WITH THE OWNER.

3. FIXTURE TYPES LISTED ARE TO INDICATE THE TYPE OF STYLE, LAMPING CHARACTERISTICS AND MOUNTING REQUIRED TO FACILITATE THE DESIGN. OTHER FIXTURE MANUFACTURERS MEETING THE LIGHT FIXTURE TYPE CRITERIA ARE ACCEPTABLE UPON EVALUATION BY THE ENGINEER.

4. ALL LIGHT FIXTURE COLORS AND FINISHES SHALL BE COORDINATED AND SELECTED BY THE ARCHITECT.

LIGHTING FIXTURE SCHEDULE

DESIGNATION	FIXTURE DESCRIPTION	MANUFACTURER/MODEL #	LAMPS	LUMENS	V	W	MOUNTING & REMARKS
AL1	SINGLE HEAD PARKING LED LIGHT	LITHONIA LIGHTING # DSX1-LED-P2-30K-T2M-MVOLT-SPA-PIRH1FC3V POLE: SSS-25-5C-DM19AS-TP-XX	LED 3000K	8283	MVOLT	70	ARCHITECT TO SELECT FINISH
AL2	DUAL HEAD PARKING LED LIGHT	LITHONIA LIGHTING # DSX1-LED-P2-30K-T2M-MVOLT-SPA-PIRH1FC3V POLE: SSS-25-5C-DM28AS-TP-XX	LED 3000K	8283	MVOLT	140	ARCHITECT TO SELECT FINISH
RL1	2X2 RECESSED LIGHT FIXTURE	FOCAL POINT #FEQ2-22-AC-4000LH-35K-1C-UNV-WH	LED 3500K	4000	120	41	
RL1E	2X2 RECESSED EMERGENCY LIGHT FIXTURE	FOCAL POINT #FEQ2-22-AC-4000LH-35K-1C-UNV-EM-WH	LED 3500K	4000	120	41	
RL2	2X2 RECESSED LIGHT FIXTURE	FOCAL POINT #FEQ2-22-AC-3000LH-35K-1C-UNV-WH	LED 3500K	3000	120	35	
RL2E	2X2 RECESSED EMERGENCY LIGHT FIXTURE	FOCAL POINT #FEQ2-22-AC-3000LH-35K-1C-UNV-EM-WH	LED 3500K	3000	120	35	
RL4	6" RECESSED SHOWER DOWNLIGHT FIXTURE	PATHWAY #6VLFL2XFRP-1100L-120-6VLEDFRPWL	LED 3500K	1100	120	10	
RL5	6" RECESSED INCANDESCENT DOWNLIGHT FIXTURE WITH RED LED A-LAMP BULB	LITHONIA/1000 BULBS-PLT-9W #L7XP-GSKT	LED RED	--	120	9	BULB EQUAL TO 60 WATT OR GREATER INCANDESCENT
SL1	1X4 SURFACE MOUNT LIGHT FIXTURE	LUMINAIRE LED #VPF8-4-50W-3500K-120-277-CP-WHT	LED 3500K	5477	120	54	
SL1E	1X4 SURFACE MOUNT LIGHT FIXTURE	LUMINAIRE LED #VPF8-4-50W-3500K-120-277-CP-WHT-EMB310	LED 3500K	5477	120	54	
SL2	MULTIPUPOSE LINEAR LIGHT	LITHONIA LIGHTING # FEM-L48-8000LM-IMACD-MD-MVOLT-35-80	LED 3500K	8000	MVOLT	69	
SL2E	MULTIPUPOSE LINEAR LIGHT	LITHONIA LIGHTING # FEM-L48-8000LM-IMACD-MD-MVOLT-35-80-BSL520	LED 3500K	8000	MVOLT	69	
SL3	2X2 SURFACE LIGHT FIXTURE	FOCAL POINT #FEQ2-22-AC-4000LH-35K-1C-UNV-WH	LED 3500K	4000	120	41	
SL3E	2X2 SURFACE EMERGENCY LIGHT FIXTURE	FOCAL POINT #FEQ2-22-AC-4000LH-35K-1C-UNV-EM-WH	LED 3500K	4000	120	41	
SL4	1X4 SURFACE MOUNT LIGHT FIXTURE	LUMINAIRE LED #VPF8-4-250W-3500K-120-277-CP-WHT	LED 3500K	2971	120	27	
SL4E	1X4 SURFACE MOUNT LIGHT FIXTURE	LUMINAIRE LED #VPF8-4-25W-3500K-120-277-CP-WHT-EMB310	LED 3500K	2971	120	27	
WL1	EXTERIOR WALL MOUNT LED WITH MOTION/LIGHT SENSOR	LITHONIA # WST-LED-P2-30K-VF-MVOLT-PIR1FC3V	LED 3000K	3237	MVOLT	25	ARCHITECT TO SELECT FINISH
WL1E	EXTERIOR WALL MOUNT LED WITH BATTRY PACK AND MOTION/LIGHT SENSOR	LITHONIA # WST-LED-P2-30K-VF-MVOLT-PIR1FC3V-E20WH	LED 3000K	3237	MVOLT	25	ARCHITECT TO SELECT FINISH
WL2	EXTERIOR WALL MOUNT LED WITH MOTION/LIGHT SENSOR	LITHONIA # KAXW-LED-P1-30K-R3-MVOLT-PIRH-DDBXD	LED 3000K	3322	MVOLT	29	ARCHITECT TO SELECT FINISH
FL1	FLAG POLE LIGHT	LITHONIA # DSXF2-P1-40K-NSP-MVOLT	LED 3500K	7715	MVOLT	54	
EX1	EXIT LIGHT	LITHONIA #EXG-LED-M6	LED	NA	120	0.8	

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (EXHAUST FANS, AIR HANDLING UNITS, ETC)

EQUIP.	VOLT/PH	LOAD VA	LOAD MCA	LOAD HP	CIRCUIT PANEL	CIRCUIT BKR	CONDUIT/WIRE SIZE	MOTOR RATED DISC. SWITCH	MAGNETIC STARTER (NOTE 1)	FUSED DISC. (NOTE 1)	REMARKS
RCP- 1	208/1	750	3.6		B	5,7	3/4" C., (3)#12 & (1) #12 GR.	---	---	---	E.C. TO INSTALL LINE VOLTAGE THERMOSTAT AND PROVIDE CONNECTION TO HEATER
RCP- 2	208/1	750	3.6		B	5,7	3/4" C., (3)#12 & (1) #12 GR.	---	---	---	E.C. TO INSTALL LINE VOLTAGE THERMOSTAT AND PROVIDE CONNECTION TO HEATER
EF- 1	120/1	528	4.4	1/6	B	9	3/4" C., (2)#12 & (1) #12 GR.	---	---	EC	PROVIDE WEATHERPROOF DEVICES AND CONNECTIONS
EF- 2	120/1	24	0.2				3/4" C., (2)#12 & (1) #12 GR.	EC	---	---	CONNECT TO RECEPTACLE CIRCUIT
MUA	120/1	1176	9.8	1/2	B	3	3/4" C., (2)#12 & (1) #12 GR.	---	EC	EC	
DH- 1	208/3	13000	45		B	13,15,17	1"C., (4) #8 & (1) #10 GR	---	---	EC	
F- 1	120/1	1296	10.8		A	5	3/4" C., (2)#12 & (1) #12 GR.	---	---	EC	
F- 2	120/1	1296	10.8		A	7	3/4" C., (2)#12 & (1) #12 GR.	---	---	EC	
CU- 1	208/3	6475	18		E	32,34,36	1" C., (4)#10 & (1) #10 GR.	---	---	EC	PROVIDE WEATHERPROOF DEVICES AND CONNECTIONS
CU- 2	208/3	6475	18		E	38,40,42	1" C., (4)#10 & (1) #10 GR.	---	---	EC	PROVIDE WEATHERPROOF DEVICES AND CONNECTIONS

NOTE: 1. CONTRACTOR LISTED SHALL FURNISH AND INSTALL THE LISTED DEVICE.

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SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
FIRE STATION 65 4966 SOUTH 298th STREET,
AUBURN, WA 98001

PROJECT # 2015137

BID SET

ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE

ELECTRICAL
FIXTURE SCHEDULE
AND MECHANICAL
CONNECTION
SCHEDULE

SHEET:

E-003

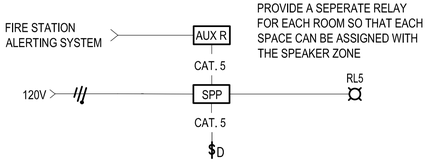
LIGHTING CONTROLS LEGEND

SYMBOL	DESCRIPTION
	DEVICES AND CABLING
TC	TIME CLOCK
SPP	SWITCHING POWER PACK
DPP	DIMMING 0-10V POWER PACK.
AUX R	AUXILIARY RELAY FOR CONTROL
DPPE	EMERGENCY DIMMING 0-10V POWER PACK.
PC	PHOTOCELL.
OS	OCCUPANCY SENSOR.
CAT. 5	CATEGORY 5 CABLING.
VS	VACANCY SENSOR.
0-10V	DIMMING CONTROL CABLING
	120V LINE VOLTAGE WIRE
	LIGHT FIXTURE
	EGRESS LIGHT FIXTURE

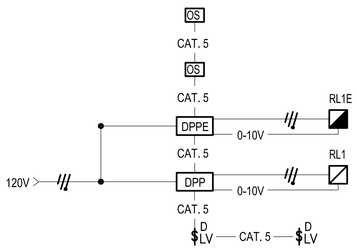
NOTE :
1. COORDINATE PROGRAMMING AND OCCUPANCY/VACANCY TIMEOUT SETTINGS WITH THE OWNER.

Room Lighting Control Schedule (For Commissioning Purposes)

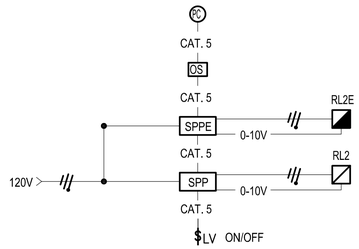
Sheet Number	Room Number	Daylight Zone	LV Lighting Control System	LV Occ/Vacancy Sensor	LV Photocell sensor	Stand alone occ/vacancy sensor	Stand alone photocell sensor	Wall mount timer switch	Wall mount occ/vacancy switch	Line voltage wall/Vacancy Sensor switch	Line voltage wall/Dimmer switch	Low voltage wall switch	Low voltage wall/Dimmer switch	Wiring Diagram	Comments
E-121	101	X	X	X									X	6	PHOTOSWNSOR PART OF LIGHT FIXTURE
E-121	102	X	X	X									X	6	PHOTOSENSOR PART OF LIGHT FIXTURE
E-121	103							X		X					
E-121	104									X					
E-121	105	X	X	X	X							X		3	
E-121	106							X		X					
E-121	107							X		X					
E-121	108A										X				
E-121	108B										X				
E-121	108D										X				
E-121	108E		X	X								X		3	
E-121	109	X	X	X	X								X	4	
E-121	110									X					
E-121	111										X				
E-121	112									X					
E-121	113		X	X								X		7	
E-121	114			X							X			9	
E-121	115		X	X								X		5	
E-121	116		X	X									X	2	
E-121	118									X					
E-121	119									X					
E-121	120					X						X			
E-121	121									X					
E-121	122									X					



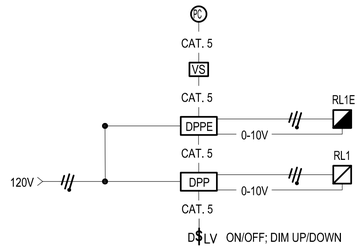
1 TYPICAL SLEEPING ROOMS - 108A, 108B, 108D & 111
SCALE: DIAGRAMATIC



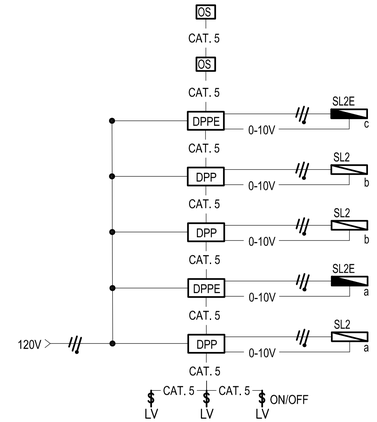
2 DAY ROOM 116
SCALE: DIAGRAMATIC



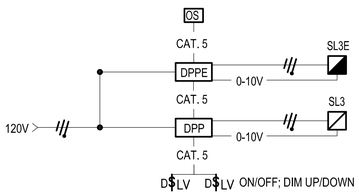
3 HALLWAY 108E/105
SCALE: DIAGRAMATIC



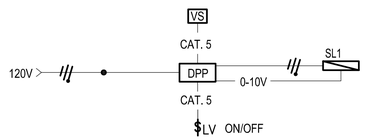
4 P.T. ROOM 109
SCALE: DIAGRAMATIC



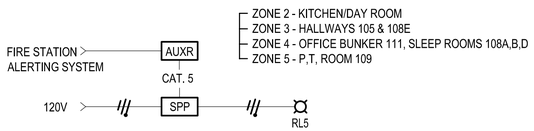
5 APPARATUS BAY 115
SCALE: DIAGRAMATIC



6 DINNING/KITCHEN 101, 102
SCALE: DIAGRAMATIC



7 LAUNDRY 113
SCALE: DIAGRAMATIC



8 FIRE STATION ALERTING SYSTEM
SCALE: DIAGRAMATIC

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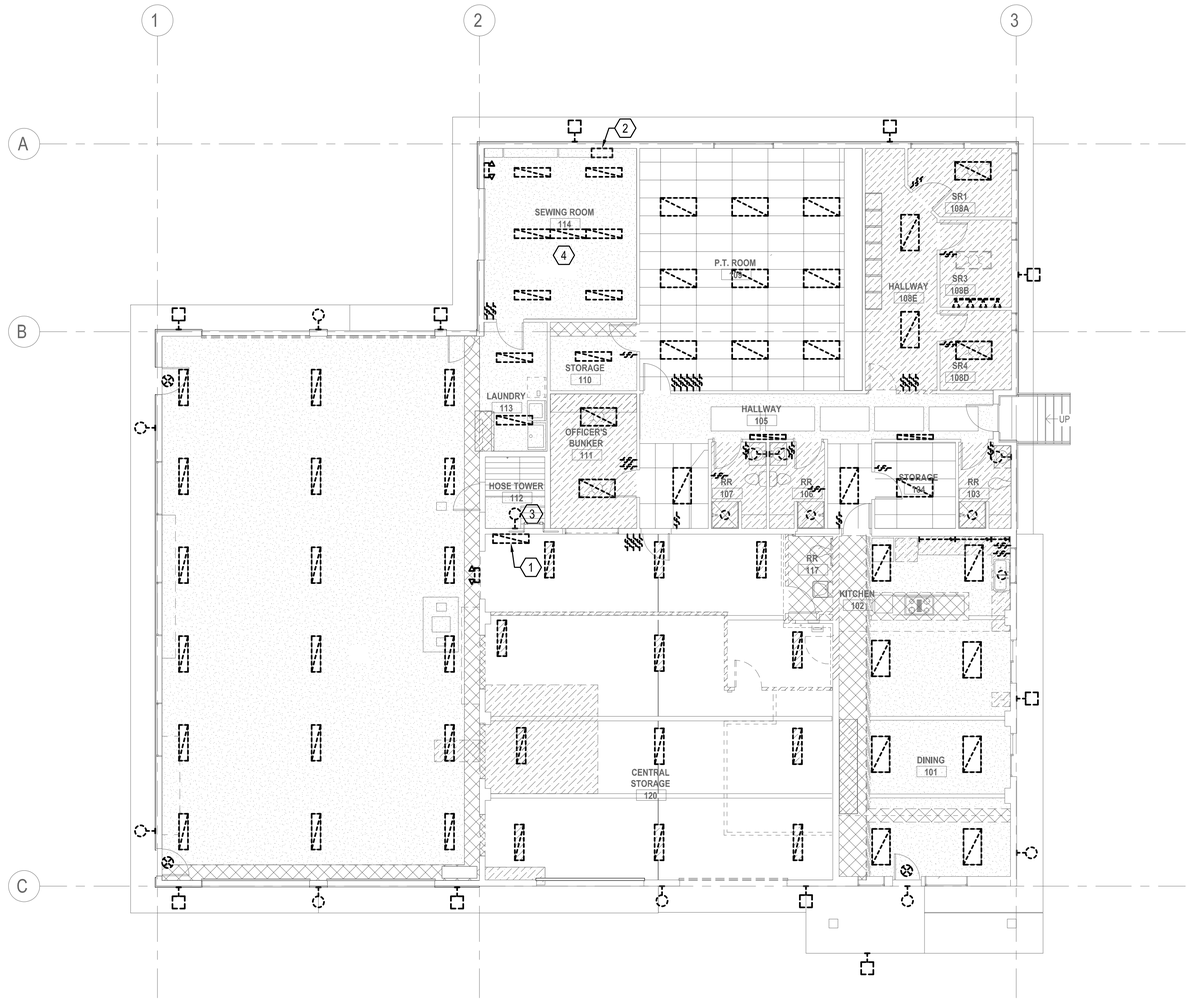
SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
FIRE STATION 65 4966 SOUTH 298th STREET,
AUBURN, WA 98001

PROJECT # 2015137
BID SET
ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE

LIGHTING CONTOLS DETAILS AND SCHEDULE

SHEET:
E-004



N

1 LEVEL 1 - LIGHTING DEMOLITION PLAN

1/8" = 1'-0"

GENERAL NOTES

1. ALL EXISTING EXTERIOR AND INTERIOR LIGHT FIXTURES ARE TO BE DEMOLISHED. ALL EXISTING LIGHTING CONTROLS ARE TO BE DEMOLISHED. SEE NEW LIGHTING PLAN FOR NEW LIGHT FIXTURE INSTALLATION AND NEW LIGHTING CONTROLS INSTALLATION.

DEMOLITION NOTES

1. DISCONNECT & REMOVE EXISTING WALL MOUNTED MAP LIGHT TO ACCOMMODATE WALL FURRING . EXTEND EXISTING BACK BOX & CIRCUIT. REINSTALL LIGHT FIXTURE AFTER CONSTRUCTION.
2. DEMOLISH EXISTING LIGHTING CONTROL (CONTACTOR) PANEL. MAINTAIN POWER CIRCUITS FOR NEW CONTROLS.
3. DEMOLISH LIGHTS ON LEVEL 2 AND 3. MAINTAIN CIRCUIT AND SWITCH FOR REUSE WITH NEW LIGHTS.
4. EXISTING LIGHTS IN MEZZANINE TO BE REPLACED WITH NEW.

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SOUTH KING FIRE & RESCUE FACILITY IMPROVEMENTS

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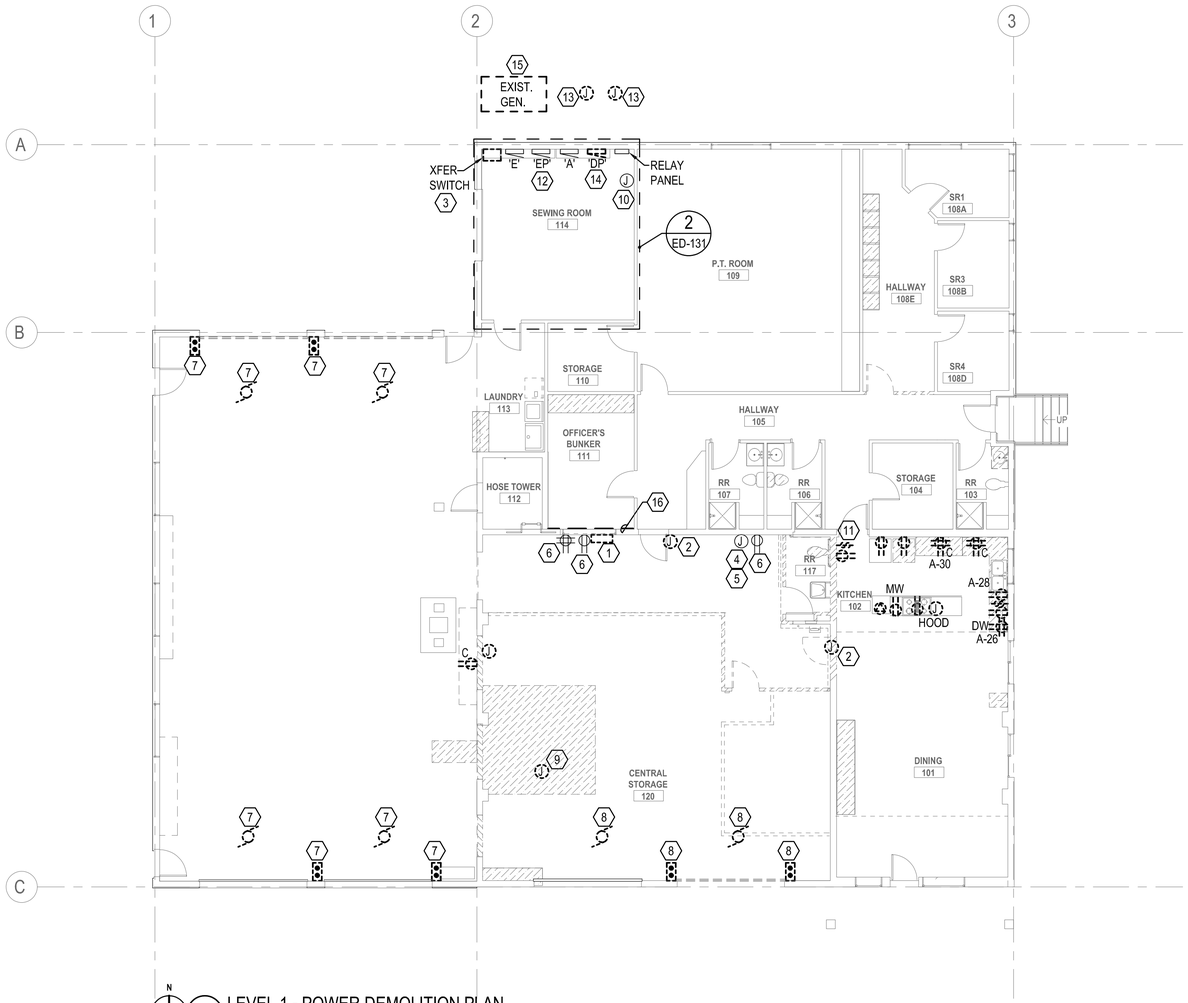
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REVISION SCHEDULE

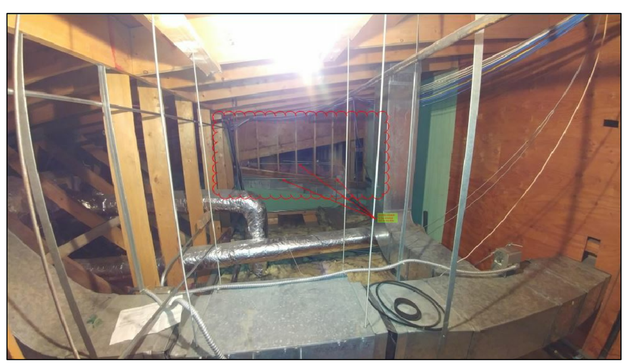
LEVEL 1
LIGHTING
DEMOLITION
PLAN

SHEET:

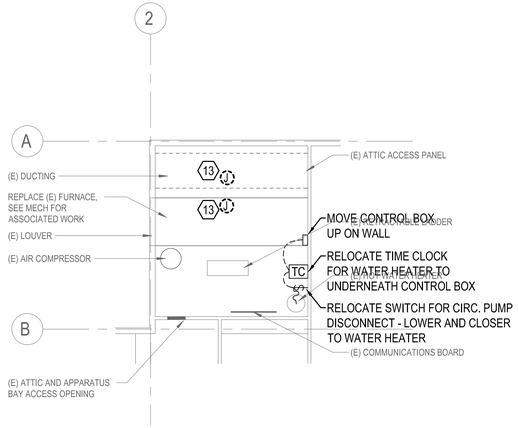
ED-121



N 1 LEVEL 1 - POWER DEMOLITION PLAN
1/8" = 1'-0"



3 SOUTH WALL IN ATTIC



N 2 MEZZANINE DEMOLITION PLAN
1/8" = 1'-0"

DEMOLITION NOTES

1. EXISTING OVERHEAD DOOR CONTROLS DISCONNECT & REMOVE TO ALLOW FOR INSTALLATION OF NEW FURRED WALL.
2. EXISTING DOOR HOLD OPEN W / CONNECTION TO FIRE ALARM SYSTEM TO BE REMOVED.
3. EXISTING TRANSFER SWITCH TO BE DISCONNECTED AND REMOVED. TURN TRANSFER SWITCH OVER TO THE OWNER.
4. EXTEND EXISTING (4) 1"C.O. UP TO ABOVE ACCESSIBLE CEILING SPACE.
5. PROVIDE EXTENSION OF EXISTING 6"X6" J-BOX SO IT IS FLUSH WITH NEW WALL.
6. PROVIDE EXTENSION RING ON EXISTING DEVICE BACK BOX SO THAT THE COVER PLATE IS FLUSH WITH THE NEW FURRED OUT WALL.
7. DISCONNECT POWER TO OVERHEAD DOORS AND CONTROLS. MAINTAIN CIRCUIT FOR CONNECTION TO NEW OVERHEAD DOORS AND CONTROLS.
8. DISCONNECT POWER TO OVERHEAD DOORS AND CONTROLS. REMOVE WIRING BACK TO PANEL.
9. DISCONNECT POWER TO EXISTING UNIT HEATER. MAINTAIN EXISTING CIRCUIT FOR EXTENSION TO NEW LOCATION.
10. DISCONNECT POWER TO EXISTING AIR COMPRESSOR. MAINTAIN CIRCUIT FOR RELOCATION TO MEZZANINE.
11. GAS/POWER RESET SWITCH TO BE REMOVED.
12. DISCONNECT AND REMOVE EXISTING POWER CONDITIONER UNIT UNDER PANEL 'EP'.
13. DISCONNECT AND REMOVE EXISTING CONNECTIONS AND DISCONNECTS FROM MECHANICAL EQUIPMENT.
14. EXISTING PANEL DP TO BE DISCONNECTED AND REMOVED. NEW PANEL DP TO BE INSTALLED IN SAME LOCATION.
15. DISCONNECT AND REMOVE EXISTING NATURAL GAS GENERATOR. TURN GENERATOR OVER TO THE OWNER.
16. E.C. TO DISCONNECT EXISTING CONDUITS AND J-BOXES ATTACHED TO THE WOOD STUDS TO ALLOW FOR SHEATHING OF THE FIRE WALL AND INSTALLATION OF THE SMOKE/FIRE DAMPER. SEE PICTURE OF SOUTH WALL IN ATTIC.

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SOUTH KING FIRE & RESCUE FACILITY IMPROVEMENTS

FIRE STATION 65 4966 SOUTH 298th STREET, AUBURN, WA 98001

PROJECT # 2015137

BID SET

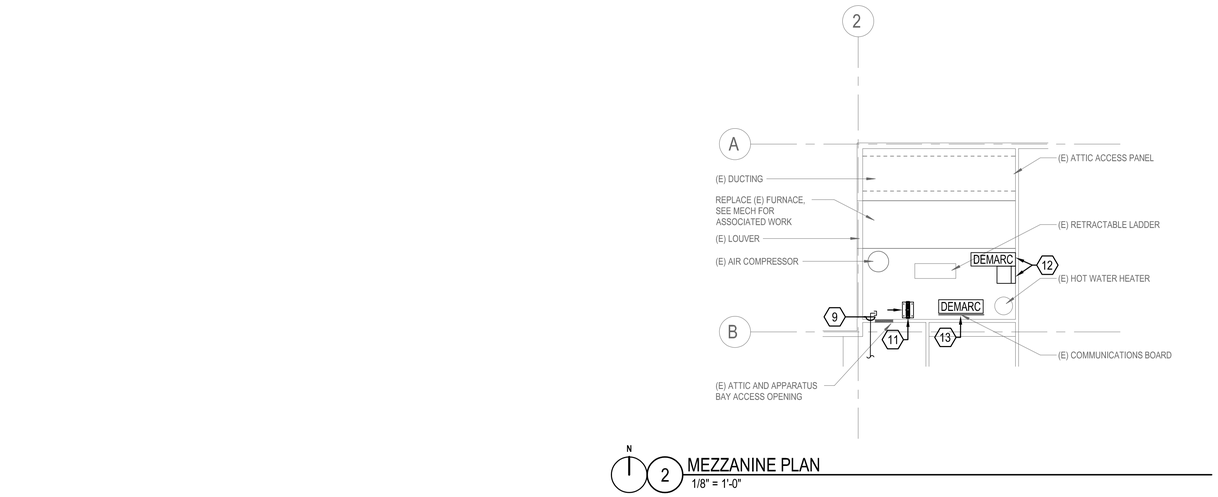
ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE

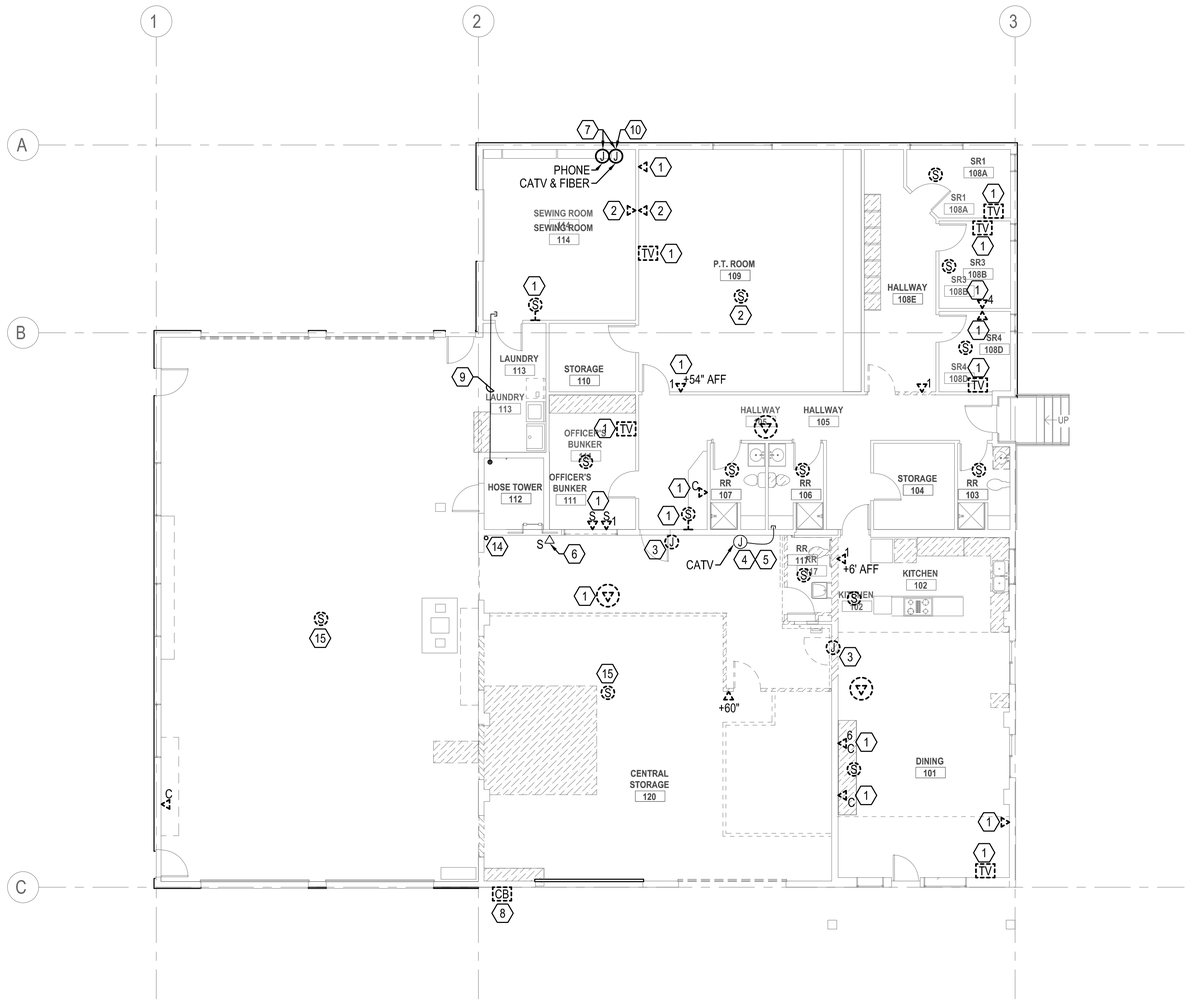
LEVEL 1 POWER DEMOLITION PLAN

SHEET:

ED-131



N 2 MEZZANINE PLAN
1/8" = 1'-0"



N 1 LEVEL 1 - SYSTEMS DEMOLITION PLAN
1/8" = 1'-0"

GENERAL NOTES

1. THE GC IS RESPONSIBLE FOR REPAIRING OR REPLACING ANYTHING DAMAGED OR DEMOLISHED DURING DEMOLITION OR CONSTRUCTION THAT WAS NOT INTENDED TO BE AT NO COST TO THE OWNER.
2. THE GC IS RESPONSIBLE FOR REPLACING ANY DAMAGED DEVICES THAT ARE TO BE RETURNED TO THE OWNER AT NO COST TO THE OWNER.

DEMOLITION NOTES

1. EXISTING OUTLET. DEMO CABLES AND OUTLETS. PATCH WALLS AS REQUIRED.
2. EXISTING OUTLET. DEMO CABLES ONLY. LOCATION TO BE RE-USED. SEE E-141 FOR MORE INFORMATION.
3. EXISTING DOOR HOLD OPEN W / CONNECTION TO FIRE ALARM SYSTEM TO BE REMOVED.
4. EXTEND EXISTING (4) 1"C.O. UP TO ABOVE ACCESSIBLE CEILING SPACE.
5. PROVIDE EXTENSION OF EXISTING 6"X6" J-BOX SO IT IS FLUSH WITH NEW WALL.
6. PROVIDE EXTENSION RING ON EXISTING DEVICE BACK BOX SO THAT THE COVER PLATE IS FLUSH WITH THE NEW FURRED OUT WALL.
7. EXISTING UNDERGROUND SERVICE ENTRY CONDUIT TO JUNCTION BOX AND CONDUIT CONTINUING TO THE MEZZANINE DEMARC LOCATION TO REMAIN.
8. EXISTING CALL BOX, DOOR BELL AND SIGNAGE TO BE RE-MOVED, RETURNED TO OWNER FOR REFINISHING, AND REINSTALLED BY THE CONTRACTOR. SEE E-141 FOR MORE DETAILS. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY DAMAGED DEVICES THAT ARE TO BE RETURNED TO THE OWNER. GC TO REPAIR, PATCH AND PAINT AREA TO MATCH SURROUNDING AREA AS REQUIRED.
9. EXISTING AES ANTENNA CONDUIT ROUTING FROM MEZZANINE TO HOSE TOWER AND VERTICALLY TO ROOF TO REMAIN.
10. RELOCATE CATV DISTRIBUTION UP TO DEMARC. EXTEND ENTRACE COAX LINE TO DEMARC WALL.
11. EXISTING ALERT & PAGING SYSTEM RACK AND TERMINAL BLOCKS TO REMAIN.
12. EXISTING WALL-MOUNTED TELECOM ENCLOSURE TO BE DEMOED BY OWNER. EXISTING FIBER DEMARC TO BE RELOCATED BY OWNER TO SOUTH WALL TELECOMMUNICATIONS BACK-BOARD TO MAKE ROOM FOR NEW ACCESS CONTROL ENCLOSURES.
13. EXISTING TELEPHONE DEMARC AND 110-BLOCKS TO BE PARTIALLY REMOVED AND RE-ARRANGED BY OWNER TO MAKE ROOM FOR FIBER AND CATV DEMARC.
14. EXISITING (4) 1" CONDUITS CUT OFF FLUSH WITH FLOOR AND FILL WITH GROUT. IF ANY CONTAIN WIRES, VERIFY WITH GC AND OWNER THAT THEY ARE NO LONGER REQUIRED PRIOR TO DEMOLITION.
15. EXISTING SPEAKER. REMOVE AND TURN OVER TO OWNER FOR RE-USE AND RE-INSTALLATION BY CONTRACTOR. SEE SHEET E-141 FOR MORE DETAILS.

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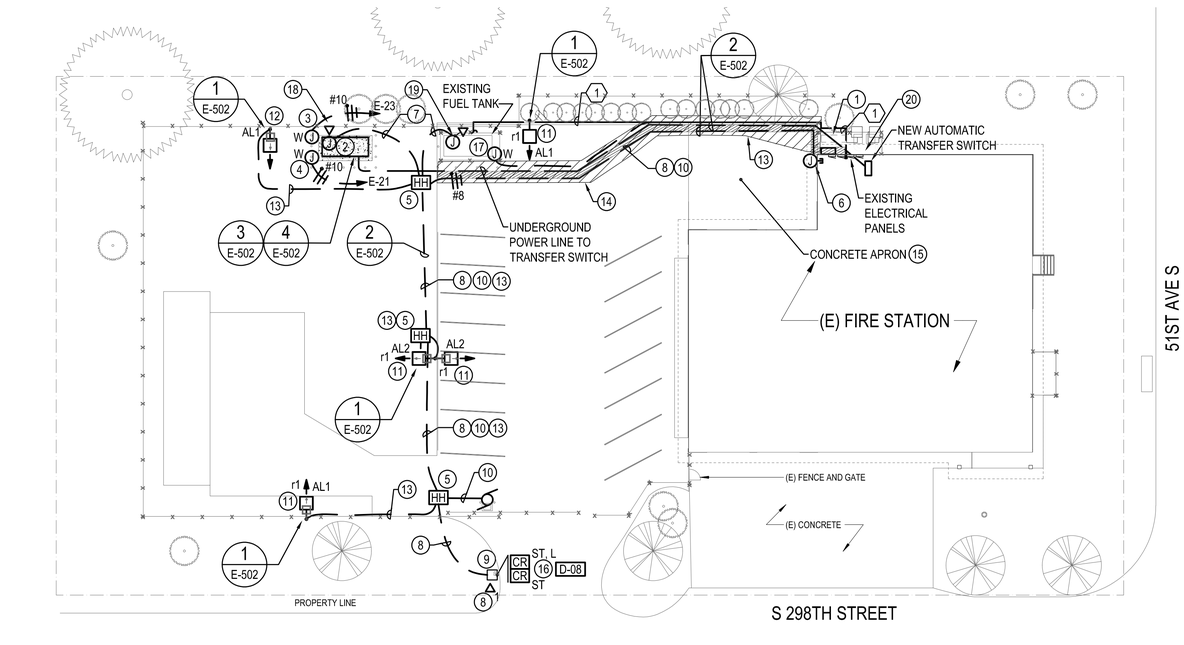
SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
FIRE STATION 65 4966 SOUTH 298th STREET,
AUBURN, WA 98001

PROJECT # 2015137
BID SET
ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE

LEVEL 1
SYSTEMS
DEMOLITION
PLAN

SHEET:
ED-141



N

1 ELECTRICAL SITE PLAN
1" = 20'-0"

20' 10' 0 20' 40'
SCALE: 1"=20'-0"

GENERAL NOTES

1. SEE CIVIL DRAWINGS FOR CUTTING AND PATCHING OF ASPHALT AND CONCRETE REQUIREMENTS.
2. SECURITY CAMERAS, CARD READERS AND DIV.28 SECURITY HARDWARE IS OFOI (OWNER FURNISHED OWNER INSTALLED). ALL RELATED CABLING, PATHWAYS AND INFRASTRUCTURE ARE CFCI (CONTRACTOR FURNISHED CONTRACTOR INSTALLED).
   - 2.1. ADVANCED DIGITAL CABLE OR EQUAL (18 AWG/6C WET RATED) FOR EACH EXTERIOR CARD READER.
   - 2.2. ADVANCED DIGITAL CABLE OR EQUAL (18 AWG/4C WET RATED) FOR EACH EXTERIOR GATE CONTROLLER.
3. GENERATOR TO BE TURNED OVER TO OWNER.

DEMOLITION NOTES

(1) EXISTING SURFACE MOUNT CONDUIT(S) TO FUEL STATION. DEMOLISH, REPAIR, PATCH AND PAINT SURFACES AS REQUIRED AFTER NEW POWER AND DATA IS CONNECTED VIA UNDERGROUND CONDUITS.

CONSTRUCTION NOTES

(1) DISCONNECT AND REMOVE EXISTING EMERGENCY NATURAL GAS GENERATOR.

(2) NEW DIESEL GENERATOR.

(3) PROVIDE CONNECTION TO GENERATOR BLOCK HEATER.

(4) PROVIDE CONNECTION TO GENERATOR BATTERY CHARGER.

(5) PROVIDE FOG-TITE TYPE 2 HANDHOLE WITH H20 RATED LID AND METAL DIVIDER FOR POWER AND SYSTEMS.

(6) ROUTE CONDUITS FROM HAND HOLE, UP EXTERIOR WALL WITH RGS TO NEMA 3R JUNCTION BOX WITH METAL DIVIDER PLATE. CORE DRILL AND PROVIDE (2) 2" C. AND (1) 1" C. INTO MEZZANNINE. SEAL AROUND CONDUIT PENETRATIONS.

(7) PROVIDE (2) 1" C. TO EACH, GENERATOR AND FUEL TANK FOR DATA. PROVIDE WEATHER PROOF JUNCTION BOX AND COVER PLATES AT EACH. PROVIDE 2 DATA JACKS LOCATED IN EACH JUNCTION BOX. CONFIRM STUB LOCATION WITH CONTRACTOR PRIOR TO ROUGH-IN.

(8) PROVIDE (1) 2" C. TO GATE PEDESTAL. ROUTE (2) OSP CAT6 DATA CABLES FROM MDF TO THE GATE CONTROL CABINET. ROUTE (2) OSP CARD READER CABLES FROM ACP/MDF TO THE PEDESTAL. ROUTE (1) GATE CONTROL CABLE. COORDINATE REQUIREMENTS WITH OWNER.

(9) OFOI ACCESS CONTROL PEDESTAL FOR GATE. CONTRACTOR PROVIDED BASE. COORDINATE EXACT MOUNTING TYPE & LOCATION WITH ARCHITECT.

(10) PROVIDE (1) 1"C., (2) #8 & (1) #10 GR. TO GATE MOTOR - CIRCUIT TO A-38.

(11) REPLACE EXISTING LIGHT AND POLE WITH NEW. RECONNECT TO EXISTING CIRCUIT.

(12) PROVIDE NEW LIGHT, POLE AND BASE.

(13) INTERCEPT EXISTING LIGHTING CIRCUIT AND EXTEND 1"C., (2) #8 & (1) #10 GR. TO NEW LIGHT AND POLE.

(14) EXISTING ASPHALT TO BE CUT & PATCHED TO ACCOMMODATE TRENCHING FOR CONDUITS.

(15) EXISTING 8" THICK CONCRETE APRON TO BE CUT & PATCHED TO ACCOMMODATE TRENCHING FOR CONDUITS.

(16) COORDINATE WITH OWNER'S SECURITY VENDOR FOR ROUGH-IN AND INTEGRATION REQUIREMENTS OF ACCESS CONTROL INTO GATE MOTOR CONTROLS PRIOR TO ROUGH-IN . (HIGHER) LONG RANGE READER AND (LOWER) KEYPAD/CARD READER ACCESS CONTROLS SHALL RELAY THE VEHICLE GATE CONTROLLER. COORDINATE WITH ALL TRADES FOR CONDUIT AND PEDESTAL INSTALLATION PRIOR TO ROUGH-IN.

(17) PROVIDE NEW CONNECTION TO FUEL PUMP (E-19) & FUEL PUMP CARD READER (E-25). PROVIDE CONDUIT SEAL OFF'S IN ACCORDANCE WITH CLASS 1, DIV. 1 AND NEC ARTICLE 514.

(18) STUB DATA CONDUIT UP INTO GENERATOR HOUSING AND LOCATE WEATHERPROOF JUNCTION BOX INSIDE OF HOUSING.

(19) STUB DATA CONDUIT INTO THE EXISTING PEDESTAL - RGS UP AND INTO THE SIDE OF PEDESTAL. TERMINATE DATA INSIDE FUEL FARM CONTROL CABINET.

(20) OWNER TO DISCONNECT EXISTING GAS LINE.

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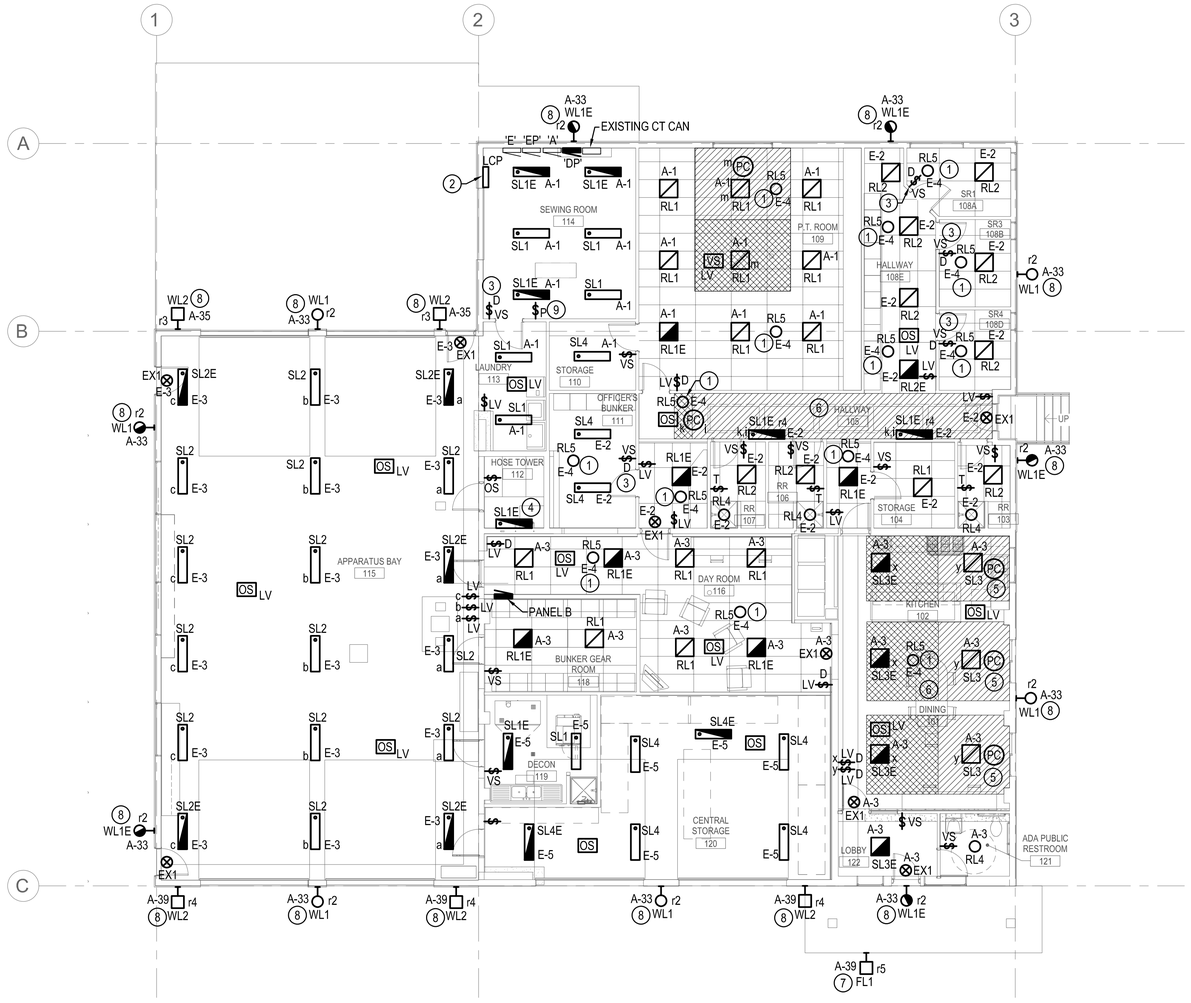
ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE

ELECTRICAL SITE PLAN

SHEET:

E-101



N 1 LEVEL 1 - LIGHTING PLAN
1/8" = 1'-0"

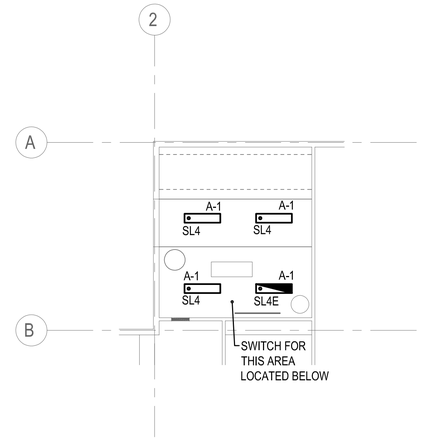
LCP SCHEDULE			
RELAY #	CIRCUIT	WATTAGE	DESCRIPTION
r 1	A-37		PARKING LOT
r 2	A-33		WALL EXTERIOR
r 3	A-35		REAR RAMP
r 4	A-39		FRONT RAMP
r 5	A-39		FLAG LIGHT
r 6	E-4		STATION ALERT LIGHTING - SLEEPING ROOMS 108A,B,D,111
r 7	E-4		STATION ALERT LIGHTING - HALLWAYS 108E,105
r 8	E-4		STATION ALERT LIGHTING - DAYROOM, KITCHEN, DINNING
r 9	E-4		STATION ALERT LIGHTING - P.T. ROOM 109

GENERAL NOTES

1. PROVIDE UNSWITCHED HOT LEG FOR ALL EMERGENCY LIGHT FIXTURES.
2. SEE DRAWING E-004 FOR LIGHTING CONTROLS SEQUENCE OF OPERATION.
3. PANEL DESIGNATIONS AND CIRCUIT NUMBERS ARE ONLY INDICATED ON THE DRAWINGS FOR REFERENCE BY THE ELECTRICAL CONTRACTOR. THE E.C. IS RESPONSIBLE TO PROVIDE ALL CONDUIT, WIRING, JUNCTION BOXES AND MISCELLANEOUS ACCESSORIES TO ACCOMMODATE INSTALLATION AND CONNECTION OF ALL DEVICES INDICATED ON THE CONTRACT DOCUMENTS. ALL WIRING SHALL BE IN HARD CONDUIT BACK TO THE DESIGNATED PANELBOARD. MC TYPE CABLE IS NOT AN ACCEPTABLE WIRING METHOD. ALL JUNCTION BOXES SHALL BE LABELED IDENTIFYING THE PANELBOARD AND CIRCUIT CONTAINED WITHIN. THERE SHALL BE NO MORE THAN (3) CIRCUITS PER HOMERUN. MULTI-WIRE CIRCUITS ARE NOT ALLOWED. EACH CIRCUIT SHALL CONTAIN A DEDICATED NEUTRAL UNLESS SPECIFICALLY ALLOWED BY THE ENGINEER. ALL WIRING SHALL BE SIZED ACCORDING TO AMPACITY OF THE CIRCUIT BREAKER INDICATED ON THE PANEL SCHEDULES. ALL CONDUIT SHALL BE SIZED PER NEC CODE BASED ON THE CONDUCTOR SIZE, TYPE, QUANTITY AND MINIMUM FILL REQUIREMENTS. CIRCUITS OVER 120 FEET FOR 120V AND 250' FOR 277V SHALL BE UP SIZED ONE WIRE SIZE TO ACCOUNT FOR VOLTAGE DROP. E.C. IS RESPONSIBLE TO SHOW ALL JUNCTION BOX LOCATIONS, CONDUIT ROUTING AND HOMERUNS ON A SET OF AS-BUILT DRAWINGS.

CONSTRUCTION NOTES

1. ROUTE CIRCUIT THROUGH RELAYS TO FIRE STATION ALERTING SYSTEM.
2. SEE LIGHTING CONTROL PANEL SCHEDULE THIS SHEET.
3. DIMMING OCCUPANCY LINE VOLTAGE WALL SWITCH.
4. REPLACE (1) LIGHT ON LEVEL 2 WITH SL1 AND (1) LIGHT ON LEVEL 3 WITH SL1 LIGHT FIXTURES.
5. PROVIDE PHOTOCELL INTEGRAL TO THE LIGHT FIXTURE.
6. NO EXPOSED CONDUIT AND/OR RACEWAY IN THIS AREA.
7. MOUNT LIGHT ON ROOF OVERHANG. AIM LIGHT @ FLAG ON FLAG POLE.
8. NEW LIGHT TO REPLACE EXISTING LIGHT. PROVIDE NEW WIRING TO ACCOMMODATE CIRCUIT, RELAY AND EMERGENCY BATTERY PACK.
9. PROVIDE PILOT LIGHT SWITCH FOR LIGHTS IN ATTIC. PILOT SHALL BE ILLUMINATED WHEN LIGHTS ARE 'ON'.



N 2 MEZZANINE - LIGHTING PLAN
1/8" = 1'-0"

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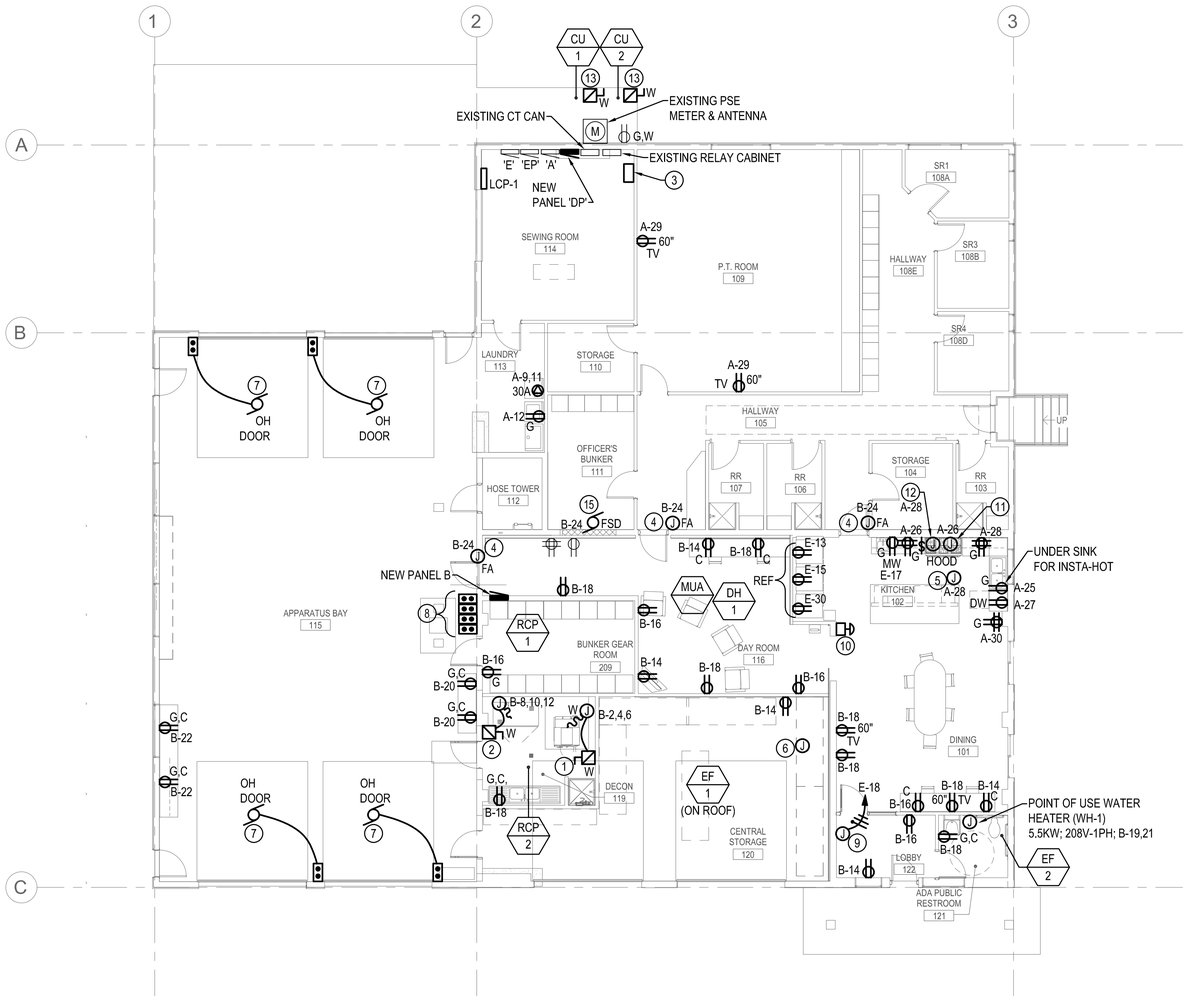
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SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
FIRE STATION 65 4966 SOUTH 298th STREET,
AUBURN, WA 98001

PROJECT # 2015137
BID SET
ISSUED: SEPTEMBER 3, 2021
REVISION SCHEDULE

LEVEL 1
LIGHTING PLAN

SHEET:
E-121



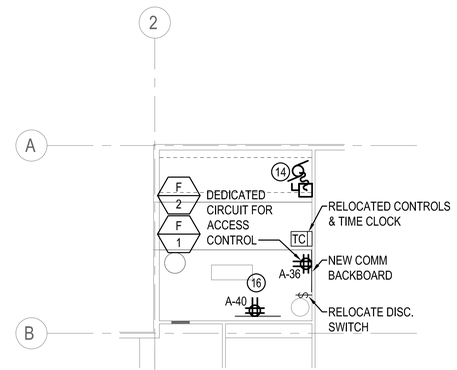
N 1 LEVEL 1 - POWER PLAN
1/8" = 1'-0"

GENERAL NOTES

1. PANEL DESIGNATIONS AND CIRCUIT NUMBERS ARE ONLY INDICATED ON THE DRAWINGS FOR REFERENCE BY THE ELECTRICAL CONTRACTOR. THE E.C. IS RESPONSIBLE TO PROVIDE ALL CONDUIT, WIRING, JUNCTION BOXES AND MISCELLANEOUS ACCESSORIES TO ACCOMMODATE INSTALLATION AND CONNECTION OF ALL DEVICES INDICATED ON THE CONTRACT DOCUMENTS. ALL WIRING SHALL BE IN HARD CONDUIT BACK TO THE DESIGNATED PANELBOARD. MC TYPE CABLE IS NOT AN ACCEPTABLE WIRING METHOD. ALL JUNCTION BOXES SHALL BE LABELED IDENTIFYING THE PANELBOARD AND CIRCUIT CONTAINED WITHIN. THERE SHALL BE NO MORE THAN (3) CIRCUITS PER HOMERUN. MULTI-WIRE CIRCUITS ARE NOT ALLOWED. EACH CIRCUIT SHALL CONTAIN A DEDICATED NEUTRAL UNLESS SPECIFICALLY ALLOWED BY THE ENGINEER. ALL WIRING SHALL BE SIZED ACCORDING TO AMPACITY OF THE CIRCUIT BREAKER INDICATED ON THE PANEL SCHEDULES. ALL CONDUIT SHALL BE SIZED PER NEC CODE BASED ON THE CONDUCTOR SIZE, TYPE, QUANTITY AND MINIMUM FILL REQUIREMENTS. CIRCUITS OVER 120 FEET FOR 120V AND 250' FOR 277V SHALL BE UP SIZED ONE WIRE SIZE TO ACCOUNT FOR VOLTAGE DROP. E.C. IS RESPONSIBLE TO SHOW ALL JUNCTION BOX LOCATIONS, CONDUIT ROUTING AND HOMERUNS ON A SET OF AS-BUILT DRAWINGS.

CONSTRUCTION NOTES

1. PROVIDE CONNECTION TO THE EXTRACTOR.
2. PROVIDE CONNECTION TO DRYER.
3. NEW AUTOMATIC TRANSFER SWITCH.
4. PROVIDE CONNECTION TO DOOR HOLD OPEN FOR POWER & FIRE ALARM RELEASE.
5. PROVIDE 120 VOLT CONNECTION TO GAS SOLENOID VALVES. ROUTE CIRCUIT THROUGH CONTACTOR FOR SHUT DOWN UPON ALERTING STATION ALARM.
6. NEW LOCATION FOR GAS UNIT HEATER EXTEND EXISTING CIRCUIT TO NEW LOCATION.
7. RECONNECT NEW OVERHEAD DOORS AND CONTROLS TO EXISTING CIRCUIT.
8. PROVIDE CONNECTION TO REMOTE OVERHEAD DOOR CONTROLS.
9. PROVIDE CONNECTION TO FIRE ALARM CONTROL PANEL.
10. GAS AND POWER RESET BUTTON FOR RANGE & OVEN. SEE DETAIL 5 ON SHEET E-502.
11. PROVIDE CONNECTION TO RANGE HOOD & SWITCH.
12. PROVIDE CONNECTION TO GAS STOVE IGNITOR. ROUTE CIRCUIT THROUGH CONTACTOR FOR SHUT DOWN UPON ALERTING STATION ALARM.
13. MOUNT DISCONNECTS FOR UNITS, ADJACENT TO EACH UNIT. PROVIDE UNISTRUT FRAME FOR MOUNTING OF DISCONNECT SWITCHES.
14. EXTEND EXISTING 30A-3P CIRCUIT UP FROM LOWER LEVEL TO NEW LOCATION FOR AIR COMPRESSOR. PROVIDE 30A-3P DISCONNECT SWITCH ADJACENT TO THE COMPRESSOR.
15. PROVIDE CONNECTION TO FIRE/SMOKE DAMPER IN ATTIC.
16. COORDINATE WITH OWNER FOR LOCATION OF NEW DEVICES AT EXISTING TELEPHONE BACKBOARD.



N 2 MEZZANINE POWER PLAN
1/8" = 1'-0"

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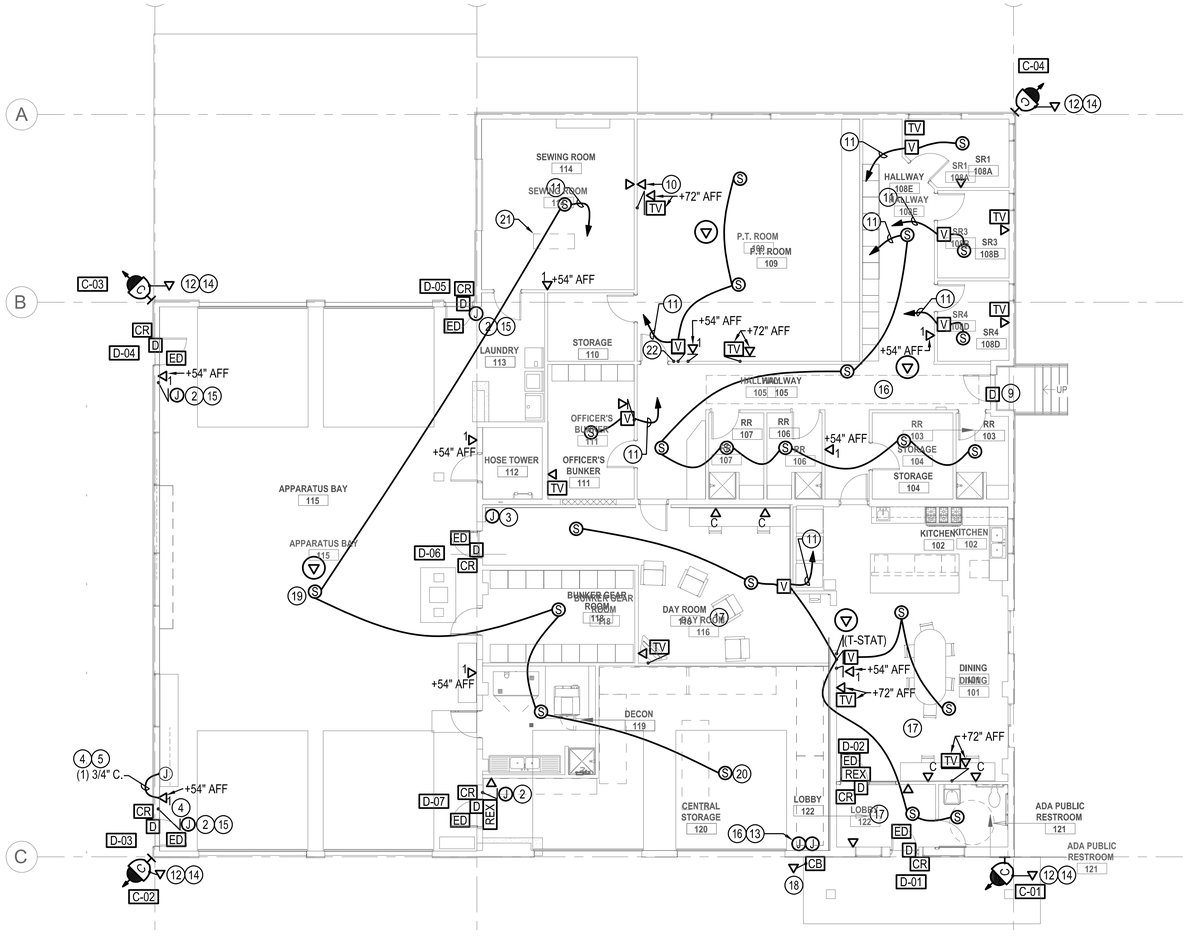
SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
FIRE STATION 65 4966 SOUTH 298th STREET,
AUBURN, WA 98001

PROJECT # 2015137
BID SET
ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE

LEVEL 1
POWER PLAN

SHEET:
E-131



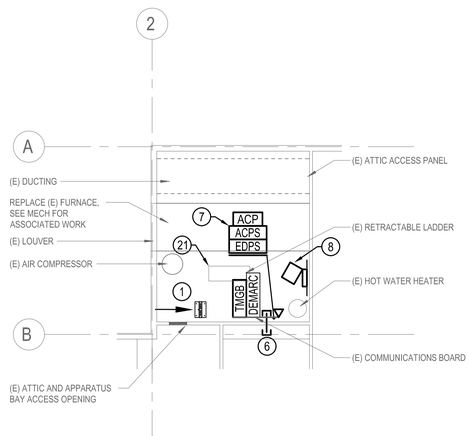
8' 4' 0 8' 16'

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

N

1 ELECTRICAL FLOOR PLAN

1/8" = 1'-0"



4' 2' 0 4' 8'

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

N

2 ENLARGED ATTIC FLOOR PLAN

1/8" = 1'-0"

GENERAL NOTES

1. CONFIRM CAMERA HEIGHTS AND PENETRATION LOCATIONS WITH OWNER PRIOR TO ROUGH-IN.
   - 1.1. IN MOST CASES, EXTERIOR CAMERAS WILL BE LOCATED NEAR EAVE OF ROOF.
2. SECURITY CAMERAS, CARD READERS AND DIV.28 SECURITY HARDWARE IS OFOI (OWNER FURNISHED OWNER INSTALLED). ALL RELATED CABLING, PATHWAYS AND INFRASTRUCTURE ARE CFCI (CONTRACTOR FURNISHED CONTRACTOR INSTALLED).
   - 2.1. ADVANCED DIGITAL CABLE (18 AWG 6C WET RATED) FOR EACH EXTERIOR GATE CARD READER.
   - 2.2. ADVANCED DIGITAL CABLE (18 AWG 4C WET RATED) FOR EACH EXTERIOR GATE CONTROLLER.
   - 2.3. SMARTWIRE (18 AWG 4C + 22 AWG 6C + 22 AWG 2C + 22 AWG 4C) FOR EACH INTERIOR DOOR.
3. LOW VOLTAGE DEVICES IN THE APPARATUS BAY SHALL BE RAN IN CONDUIT TO THE MEZZANINE OR NEAREST ACCESSIBLE CEILING.
4. NEW OUTLETS IN EXISTING WALLS MAY BE FISHED AND INSTALLED WITH CUT-IN RINGS.
5. ALL SURFACE MOUNT CONDUITS SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT PRIOR TO ROUGH-IN.
6. CUT AND PATCH WHERE CONCEALED CONDUITS ARE REQUIRED BY THE DOCUMENTS AND WHERE ARCHITECT REQUIRES CONCEALED CONDUITS.
7. NEW SPEAKER WIRING SHALL UTILIZE CRAWL SPACE/ATTIC AND ACCESSIBLE CEILING PATHWAYS. PROVIDE SLEEVES AND CONDUIT PATHWAYS AS REQUIRED BETWEEN CRAWL SPACES/ATTICS AND ACCESSIBLE CEILINGS.
8. CONCEAL NEW CONDUITS WHERE POSSIBLE IN NEW WALLS OR IN WALLS THAT WILL HAVE ONE FACE DEMOLISHED AND REPLACED. COORDINATE SYSTEMS CONDUITS WITH ELECTRICAL CONTRACTOR AND GC PRIOR TO ROUGH-IN.
9. THE GC IS RESPONSIBLE FOR REPAIRING OR REPLACING ANYTHING DAMAGED OR DEMOLISHED DURING DEMOLITION OR CONSTRUCTION
10. THAT WAS NOT INTENDED TO BE AT NO COST TO THE OWNER.

CONSTRUCTION NOTES

1. EXISTING ALERT & PAGING SYSTEM RACK, SETUP, AND PROGRAMMING BY OWNER. CONTRACTOR TO PROVIDE NEW SPEAKERS, WIRING, CABLE LABELS, AND SPADE TERMINATIONS ON TERMINAL BLOCK. PROVIDE NEW SLEEVE THROUGH WALL AS REQUIRED FOR SPEAKER CABLING.
2. PROVIDE 12"X12"X4" SURFACE MOUNT JUNCTION BOX AT +8'-0" AFF FOR ACCESS CONTROLLED DOOR. SEE ACCESS CONTROL DETAILS FOR MORE INFORMATION. PROVIDE SURFACE MOUNT CONDUITS TO ACCESS CONTROL DEVICES IF NO NEW WORK IS BEING DONE TO WALL FACE. RECESS CONDUITS IF NEW WORK IS BEING DONE TO WALL FACE. HOME RUN (1) 1" CONDUIT TO THE MEZZANINE SPACE.
3. PROVIDE 12"X12"X4"JUNCTION BOX ABOVE ACCESSIBLE CEILING FOR ACCESS CONTROLLED DOOR. SEE ACCESS CONTROL DETAILS FOR MORE INFORMATION. PROVIDE CONCEALED CONDUITS FOR ACCESS CONTROL DEVICES.
4. COORDINATE WITH GC FOR CONDUIT ROUTING AND BACKBOX INSTALLATION WHILE WALL GWB IS DEMOED.
5. ROUTE CONDUIT TO NEW OUTLET FROM EXISTING BACKBOX. PLATE EXISTING BACKBOX.
6. PROVIDE NEW (3) 3" DIAMETER SLEEVES THROUGH WALL FOR LOW VOLTAGE CABLING. COORDINATE HEIGHT WITH OWNER.
7. NEW OFOI ACCESS CONTROL PANELS AND POWER SUPPLIES ON THIS WALL. COORDINATE WITH ELECTRICIAN FOR INSTALLATION OF NEW ELECTRICAL OUTLET LOCATION. ROUTE NEW HORIZONTAL SECURITY CABLING TO THIS LOCATION WITH 10' SERVICE LOOP.
8. EXISTING DATA WALL RACK TO REPLACED BY THE OWNER. COORDINATE WITH OWNER FOR NEW PATCH PANEL LOCATIONS WITHIN OFOI RACK. ROUTE NEW HORIZONTAL DATA CABLING TO THIS LOCATION WITH 10' SERVICE LOOP.
9. PROVIDE DOOR POSITION SWITCH ROUGH-IN FOR ACCESS CONTROL MONITORING ONLY. PROVIDE 18/2 SECURITY CABLING.
10. REUSE EXISTING OUTLET LOCATION AND PATHWAY. PROVIDE NEW CABLES, JACKS AND FACEPLATES.
11. ROUTE CABLE SHOWN TO THE ACCESSIBLE CEILING. CONCEAL IN ACCESSIBLE CEILING SPACES AND PROVIDE CONDUIT RACEWAYS WHERE REQUIRED BETWEEN CEILING SPACES.
12. OFOI CAMERA LOCATION. PROVIDE SURFACE MOUNT 6X6X4 EXTERIOR SURFACE MOUNT WEATHER PROOF JUNCTION BOX AND WEATHER PROOF COVER PLATE. CORE-DRILL AND PROVIDE 1" SLEEVE AS REQUIRED TO INTERIOR 4S DEEP BACK BOX AND ROUTE (1) 1" CONDUIT TO THE NEAREST ACCESSIBLE CEILING OR MEZZANINE. LOCATE DATA PORTS IN EXTERIOR JUNCTION BOX FOR PATCH CORD CONNECTION.
13. PROVIDE 12X12X4 JUNCTION BOX UP HIGH IN STORAGE AT 10'-0" AFF MINIMUM FOR ACCESS CONTROLLED DOOR IN THE LOBBY. COORDINATE WITH OWNER FOR EXACT LOCATION. PROVIDE SURFACE MOUNTED WIREMOLD FOR ACCESS CONTROL DEVICES ON LOBBY SIDE.
14. PROVIDE (2) CAT 6 CABLES, JACKS AND 2-PORT SURFACE OUTLET FOR EACH CCTV CAMERA INDICATED. (1) CAT 6 IS SPARE FOR FUTURE. LABEL PER DIV.272000 STANDARDS.
15. PROVIDE (1) COMPOSITE ACCESS CONTROL CABLE WITH 15' SERVICE LOOP AT JUNCTION BOX FOR OWNER TO STRIP AND TERMINATE. ROUTE FROM ACCESS CONTROL PANEL LOCATION WITH 10' SERVICE LOOP.
16. PROVIDE (1) COMPOSITE ACCESS CONTROL CABLE FOREACH DOOR WITH 25' SERVICE LOOP AT JUNCTION BOX FOR OWNER TO STRIP AND TERMINATE. ROUTE FROM ACCESS CONTROL PANEL LOCATION WITH 10' SERVICE LOOP.
17. CONCEAL CONDUITS IN THESE AREAS / NO SURFACE MOUNT CONDUITS. CUT AND PATCH AS REQUIRED. PROVIDE CONCEALED SLEEVES AND PATHWAYS AS REQUIRED BETWEEN ACCESSIBLE CEILINGS AND TO DEVICES IN AREAS WITH NO ACCESSIBLE CEILINGS.
18. REINSTALL CALL BOX. PROVIDE (2) CAT6 FOR PHONE LINE AND DOOR BELL BUTTON. COORDINATE EXACT LOCATION AND STUB LOCATION/CABLE FEED WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN OF CONDUIT.
19. RE-INSTALL OFCI DOME SPEAKER IN SAME LOCATION.
20. INSTALL OFCI DOME SPEAKER IN NEW LOCATION.
21. EXISTING MEZZANINE ACCESS.
22. LIGHT SWITCH LOCATION SHOWN FOR COORDINATION

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09/03/21

SOUTH KING FIRE & RESCUE FACILITY IMPROVEMENTS

FIRE STATION 65 4966 SOUTH 298th STREET, AUBURN, WA 98001

PROJECT # 2015137

BID SET

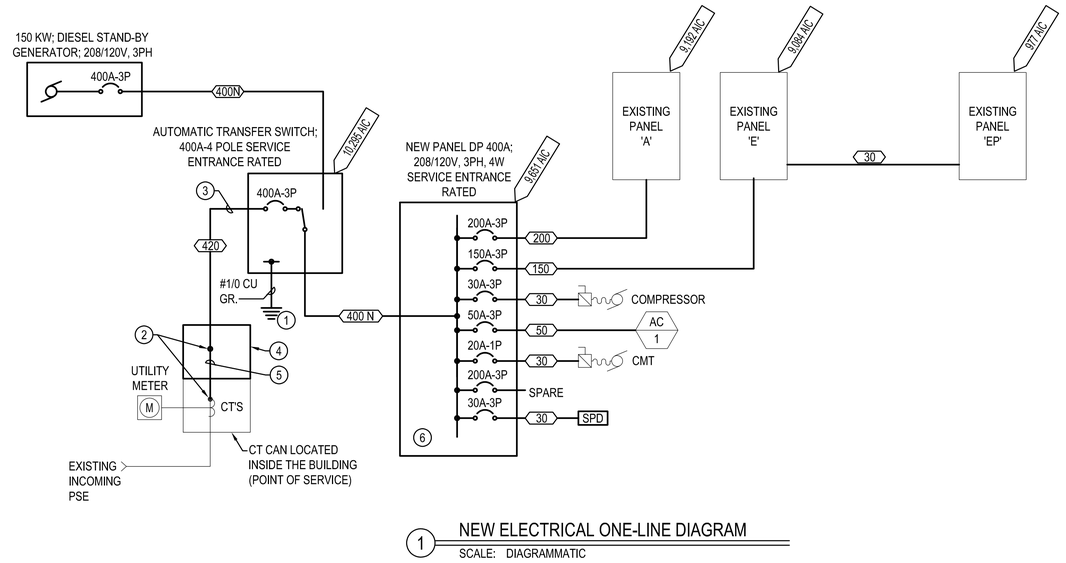
ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE

SYSTEMS FLOOR PLANS

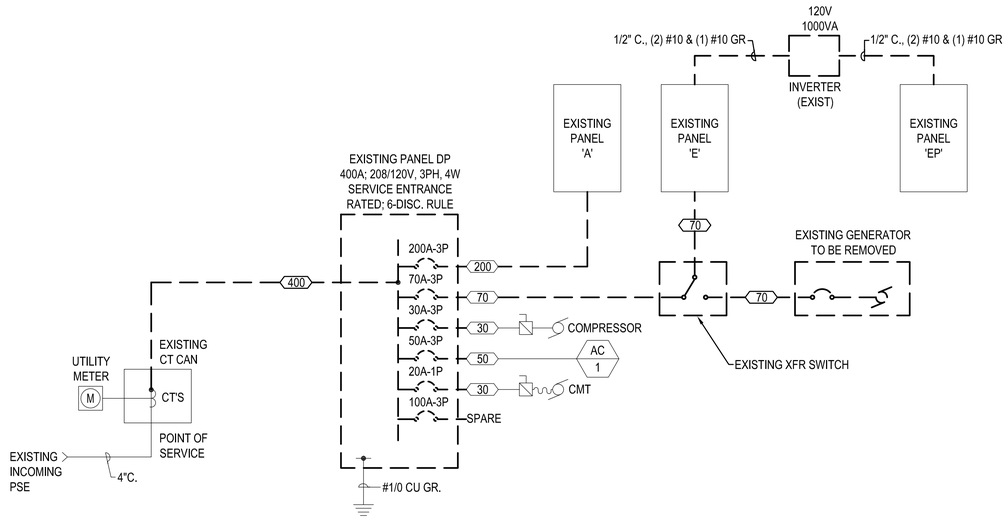
SHEET:

E-401



1 NEW ELECTRICAL ONE-LINE DIAGRAM

SCALE: DIAGRAMMATIC



2 EXISTING ELECTRICAL ONE-LINE DIAGRAM

SCALE: DIAGRAMMATIC

GENERAL NOTES

1. REFER TO PANEL SCHEDULES FOR MINIMUM AIC RATING.

CONSTRUCTION NOTES

1. E.C. TO PROVIDE NEW BUILDING GROUNDING SYSTEM. PROVIDE GROUND RODS AND BONDING TO STRUCTURE STEEL & WATER PIPING.
2. PROVIDE SPLICING OF NEW CONDUCTORS TO EXISTING. E.C. TO COORDINATE WITH PSE AND OWNER FOR POWER OUTAGE TO THE BUILDING.
3. PROVIDE 400 AMP RATED PIN TERMINALS TO ACCOMMODATE 500 MCM LUG TERMINATIONS AT THE TRANSFER SWITCH.
4. PROVIDE NEMA 3R 24" W x 24" H x 8" D SURFACE MONT JUNCTION BOX ON THE OUTSIDE OF THE BUILDING.
5. PROVIDE 4"C., BETWEEN CT CAN AND THE EXTERIOR JUNCTION BOX. PROVIDE CORE DRILL THROUGH EXTERIOR WALL.
6. SEE PANEL SCHEDULES FOR ADDITIONAL CIRCUIT BREAKER REQUIREMENTS.

CONDUIT/COPPER FEEDER SCHEUDLE

FEEDER NUMBER	CONDUIT/FEEDER SIZE	AMPACITY
30	3/4"C., (4) #10 CU & (1) #10 GR.	30
50	1"C., (4) #8 & (1) #10 GR.	50
70	1-1/4"C., (4) #4 & (1) #8 GR.	85
150	2"C., (4) #1/0 CU & (1) #6 GR.	150
200	2"C., (4) #3/0 CU & (1) #6 GR.	200
400	4"C., (4) #500 MCM CU	380
400N	(2) SETS OF 2"C., (4) #3/0 CU & (1) #2 GR.	400
420	4"C., (4) #600 MCM CU	420

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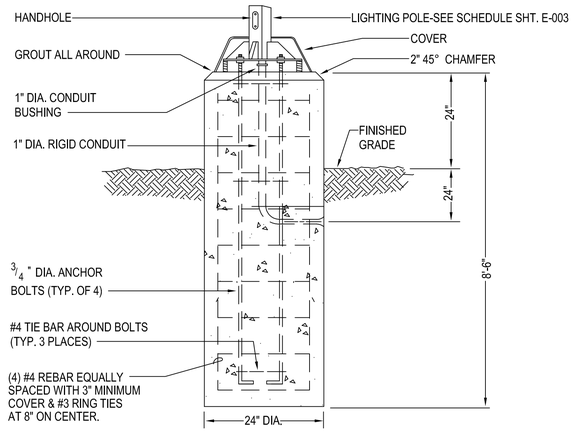
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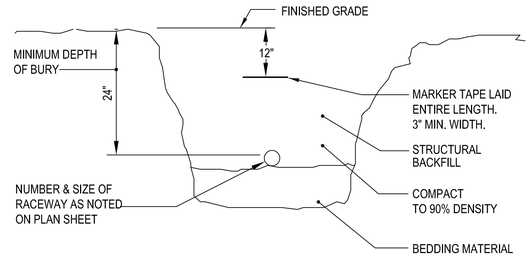
EXISTING ELECTRICAL ONE-LINE DIAGRAM

SHEET:

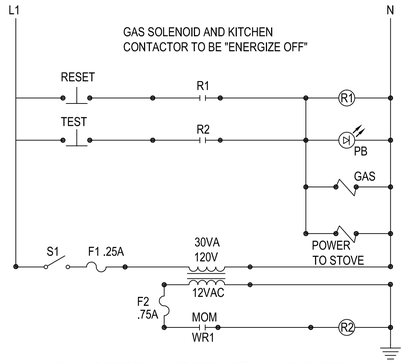
E-501



1 POLE BASE DETAIL
SCALE: DIAGRAMMATIC

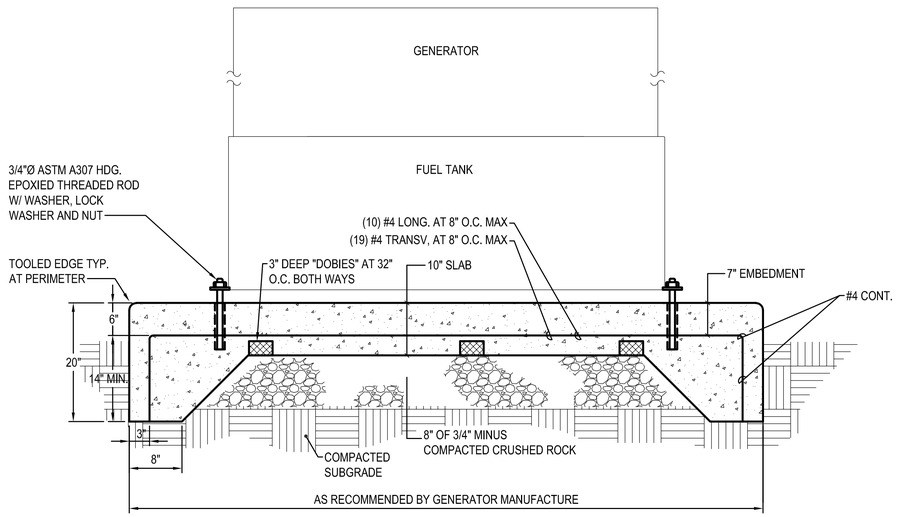


2 DIRECT BURIAL RACEWAY DETAIL
SCALE: DIAGRAMMATIC

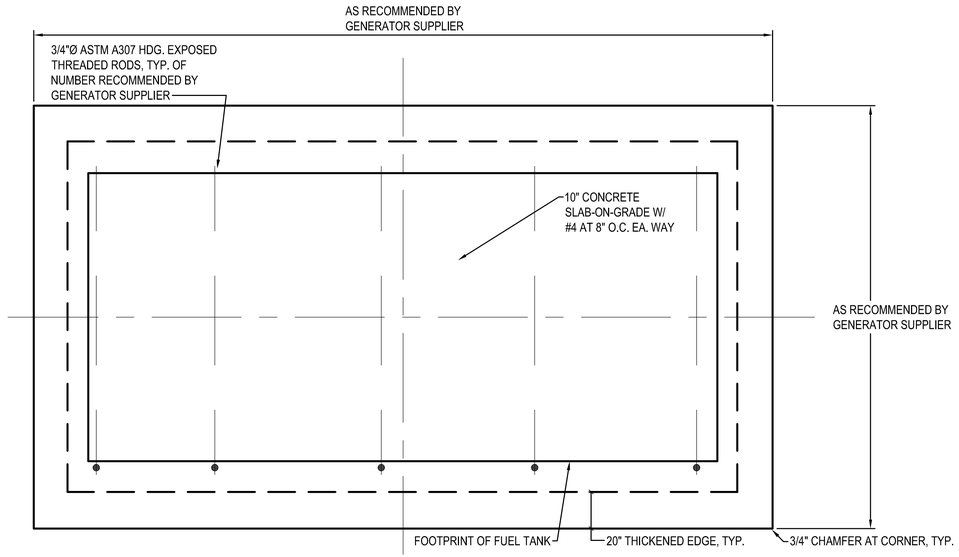


WR1 = WIPATH RELAY #1 PROGRAMMED AS A MOMENTARY
R2 IS AN ISOLATION RELAY FOR THE WIPATH RELAY.
WIPATH TO BE ORDERED WITH RELAY OPTION

5 KITCHEN SHUTDOWN DETAIL
SCALE: DIAGRAMMATIC



3 DIESEL GENERATOR WITH PAD DETAIL
SCALE: DIAGRAMMATIC



4 DIESEL GENERATOR PAD DETAIL
SCALE: DIAGRAMMATIC

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PROJECT # 2015137

BID SET

ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE

ELECTRICAL SITE DETAILS

SHEET:

E-502

PANEL: DP (EXISTING) | **3** PH | **4** WIRE | **VOLTAGE:** 208Y/120V | **400A MLO**
LOC: | **MOUNT:** SURFACE | **FEED:** BOTTOM
TYPE: NEMA 1; SER | **POLES:** 24 | **SF MAINS:** | **22,000 AIC**

LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. BRKR P	CIR. BRKR AMP	A	B	C	CIR. BRKR P	CIR. BRKR AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE
SF	10048	TRANSFER SWITCH/	1	3		10048			3		2			
SF	10813	PANEL E	3				10813				4	SPARE		
SF	11023		5		70			11023		100	6			
MO	3034		7	3		3034			1	20	8	CMT		
MO	3034	AC-1	9				3034				10			
MO	3034		11		50			3034			12			
MO	2098		13	3		2098					14			
MO	2098	AIR COMPRESSOR	15				2098				16			
MO	2098		17		30			2098			18			
SF	11503		19	3		11503					20			
SF	13231	PANEL A	21				13231				22			
SF	14625		23		200			14625			24			
	86639	TOTAL			THIS PANEL->	26683	29176	30780					TOTAL	
						26683	29176	30780						

LIGHTING(125%) = 9063.75 | RECEPTS<=10000(100%) = 9360.00 | RECEPTS>10000(50%) = 0.00 | RECEPTS TOTAL = 9360.00 | ELECTRIC HEAT(100%) = 3000.00
LARGEST MOTOR(125%) = 4946.25 | OTHER MOTORS(100%) = 27449.00 | MOTOR TOTAL = 32395.25 | WATER HEATERS(100%) = 0.00
KITCHEN LOADS(65%) = 7800.00 | APPLIANCES(100%) = 10406.00 | DEDICATED(100%) = 13216.00 | MISC(100%) = 0.00

TOTAL CONNECTED LOAD (VA): 86,639.00
TOTAL CONNECTED CURRENT (A): 240.49
TOTAL DEMAND LOAD (VA): 85,241.00
TOTAL DEMAND CURRENT (A) 236.61

NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED

PANEL: DP (NEW) | **3** PH | **4** WIRE | **VOLTAGE:** 208Y/120V | **400A MCB**
LOC: | **MOUNT:** SURFACE | **FEED:** BOTTOM
TYPE: NEMA 1; SER | **POLES:** 24 | **SF MAINS:** | **22,000 AIC**

LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. BRKR P	CIR. BRKR AMP	A	B	C	CIR. BRKR P	CIR. BRKR AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE
SF	13260		1	3		23308			3		2		10048	SF
SF	14214	PANEL B (NEW)	3				25027				4	PANEL E *	10813	SF
SF	10930		5		200			21953		150	6		11023	SF
MO	3034		7	3		3034			1	20	8	CMT		
MO	3034	AC-1	9				3034		1	20	10	SPARE		
MO	3034		11		50			3034	1	20	12	SPARE		
MO	2098		13	3		2098					14	SPACE		
MO	2098	AIR COMPRESSOR	15				2098				16	SPACE		
MO	2098		17		30			2098			18	SPACE		
SF	10392		19	3		10392			3		20			
SF	9280	PANEL A *	21				9280				22	SPD		
SF	9373		23		200			9373		30	24			
	82845	TOTAL			THIS PANEL->	38832	39439	36458					TOTAL	31884
						38832	39439	36458						

LIGHTING(125%) = 8001.25 | RECEPTS<=10000(100%) = 10000.00 | RECEPTS>10000(50%) = 1480.00 | RECEPTS TOTAL = 11480.00 | ELECTRIC HEAT(100%) = 17499.00
LARGEST MOTOR(125%) = 4946.25 | OTHER MOTORS(100%) = 30329.00 | MOTOR TOTAL = 35275.25 | WATER HEATERS(100%) = 5500.00
KITCHEN LOADS(65%) = 0.00 | APPLIANCES(100%) = 10406.00 | DEDICATED(100%) = 27677.00 | MISC(100%) = 0.00

TOTAL CONNECTED LOAD (VA): 114,729.00
TOTAL CONNECTED CURRENT (A): 318.46
TOTAL DEMAND LOAD (VA): 115,838.50
TOTAL DEMAND CURRENT (A) 321.54

NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED
*** = REVISED LOADS ADDED**

PANEL: A (EXISTING) | **3** PH | **4** WIRE | **VOLTAGE:** 208Y/120V | **200A MLO**
LOC: | **MOUNT:** SURFACE | **FEED:** BOTTOM
TYPE: NEMA 1 | **POLES:** 42 | **SF MAINS:** | **22,000 AIC**

LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. BRKR P	CIR. BRKR AMP	A	B	C	CIR. BRKR P	CIR. BRKR AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE
L	392	LTG - SHOP	1	1	20	752			1	20	2	RECEPT - SHOP	360	R
L	792	LTG - DAY ROOM	3	1	20		1152		1	20	4	RECEPT - SHOP	360	R
MO	1296	FURNACE	5	1	20			1656	1	20	6	RECEPT - SHOP	360	R
MO	1296	FURNACE	7	1	20	1656			1	20	8	RECEPT - REEL CORD	360	R
A	2500	DRYER	9	2			2860		1	20	10	RECEPT - REEL CORD	360	R
A	2500		11		30			2950	1	20	12	WASHER	450	A
R	540	RECEPT - WRITE CENTER	13	1	20	900			1	20	14	RECEPT - APP. BAY	360	R
R	540	RECEPT - WATCH OFFICE	15	1	20		740		1	20	16	TIMER - DRYER	200	D
R	360	RECEPT - WORK BENCH	17	1	20			720	1	20	18	RECEPT - ATTIC	360	R
R	360	RECEPT - W. WALL SLEEPING	19	1	20	1679			3		20		1319	ML
R	360	RECEPT - W. WALL SLEEPING	21	1	20		1679				22	NEDERMAN - EXH FAN	1319	ML
R	360	RECEPT - S. WALL SLEEPING	23	1	20			1679		20	24		1319	ML
A	1696	RECEPT - DISPOSAL	25	1	20	2056			1	20	26	RECEPT - KITCHEN	360	R
A	800	DISHWASHER	27	1	20		1160		1	20	28	RECEPT - KITCHEN	360	R
R	540	RECEPT - DAY ROOM	29	1	20			900	1	20	30	RECEPT - KITCHEN	360	R
R	360	RECEPT - WATCH OFFICE	31	1	20	1360			2		32	HEATER - CORRIDOR	1000	H
L	420	LTG - WALL EXTERIOR	33	1	20		1420			20	34		1000	H
L	360	LTG - REAR RAMP	35	1	20			2860	2		36	COOK-TOP	2500	K
L	600	LTG - PARKING	37	1	20	3100				30	38		2500	K
L	720	LTG - FRONT RAMP	39	1	20		4220		2		40	OVEN	3500	K
R	360	RECEPT - OUTSIDE	41	1	20			3860		50	42		3500	K
	17152	TOTAL			THIS PANEL->	11503	13231	14625					TOTAL	22207
						11503	13231	14625						

LIGHTING(125%) = 4105.00 | RECEPTS<=10000(100%) = 7380.00 | RECEPTS>10000(50%) = 0.00 | RECEPTS TOTAL = 7380.00 | ELECTRIC HEAT(100%) = 2000.00
LARGEST MOTOR(125%) = 4946.25 | OTHER MOTORS(100%) = 2592.00 | MOTOR TOTAL = 7538.25 | WATER HEATERS(100%) = 0.00
KITCHEN LOADS(65%) = 7800.00 | APPLIANCES(100%) = 7946.00 | DEDICATED(100%) = 200.00 | MISC(100%) = 0.00

TOTAL CONNECTED LOAD (VA): 39,359.00
TOTAL CONNECTED CURRENT (A): 109.25
TOTAL DEMAND LOAD (VA): 36,969.25
TOTAL DEMAND CURRENT (A) 102.62

NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED

PANEL: A (EXISTING) REVISED | **3** PH | **4** WIRE | **VOLTAGE:** 208Y/120V | **200A MLO**
LOC: | **MOUNT:** SURFACE | **FEED:** BOTTOM
TYPE: NEMA 1 | **POLES:** 42 | **SF MAINS:** | **22,000 AIC**

LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. BRKR P	CIR. BRKR AMP	A	B	C	CIR. BRKR P	CIR. BRKR AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE
L	**855**	**LTG - 109,110,114**	1	1	20	1215			1	20	2	RECEPT - SHOP	360	R
L	**630**	**LTG - 101, 102, 116, 118**	3	1	20		990		1	20	4	RECEPT - SHOP	360	R
MO	**1296**	**FURNACE**	5	1	20			1656	1	20	6	RECEPT - SHOP	360	R
MO	**1296**	**FURNACE**	7	1	20	1656			1	20	8	RECEPT - REEL CORD	360	R
A	**2500**	**DRYER**	9	2			2860		1	20	10	RECEPT - REEL CORD	360	R
A	**2500**		11		30			2950	1	20	12	**WASHER**	**450**	A
R	540	RECEPT - WRITE CENTER	13	1	20	900			1	20	14	RECEPT - APP. BAY	360	R
R	540	RECEPT - WATCH OFFICE	15	1	20		740		1	20	16	TIMER - DRYER	200	D
R	360	RECEPT - WORK BENCH	17	1	20			720	1	20	18	RECEPT - ATTIC	360	R
R	360	RECEPT - W. WALL SLEEPING	19	1	20	1679			3		20		1319	ML
R	360	RECEPT - W. WALL SLEEPING	21	1	20		1679				22	NEDERMAN - EXH FAN	1319	ML
R	360	RECEPT - S. WALL SLEEPING	23	1	20			1679		20	24		1319	ML
A	**1696**	**RECEPT - DISPOSAL**	25	1	20	2056			1	20	26	**RECEPT - KITCHEN**	**360**	R
A	**800**	**DISHWASHER**	27	1	20		1160		1	20	28	**RECEPT - KITCHEN**	**360**	R
R	540	RECEPT - DAY ROOM	29	1	20			900	1	20	30	**RECEPT - KITCHEN**	**360**	R
R	360	RECEPT - WATCH OFFICE	31	1	20	1360			2		32	HEATER - CORRIDOR	1000	H
L	**275**	**LTG - WALL EXTERIOR**	33	1	20		1275			20	34		1000	H
L	**108**	**LTG - REAR RAMP**	35	1	20			1108	**1**	**20**	36	**CARD ACCESS (NOTE 1)**	**1000**	D
L	**350**	**LTG - PARKING**	37	1	20	1526			**1**	**20**	38	**GATE MOTOR (NOTE 1)**	**1176**	MO
L	**216**	**LTG - FRONT RAMP**	39	1	20		576		**1**	**20**	40	**UPS/DATA RACK (NOTE 1)**	**360**	D
R	360	RECEPT - OUTSIDE	41	1	20			360	**1**	**20**	42	**SPARE (NOTE 1)**		
	16302	TOTAL			THIS PANEL->	10392	9280	9373					TOTAL	12743
						10392	9280	9373						

LIGHTING(125%) = 3042.50 | RECEPTS<=10000(100%) = 7380.00 | RECEPTS>10000(50%) = 0.00 | RECEPTS TOTAL = 7380.00 | ELECTRIC HEAT(100%) = 2000.00
LARGEST MOTOR(125%) = 4946.25 | OTHER MOTORS(100%) = 3768.00 | MOTOR TOTAL = 8714.25 | WATER HEATERS(100%) = 0.00
KITCHEN LOADS(65%) = 0.00 | APPLIANCES(100%) = 7946.00 | DEDICATED(100%) = 1560.00 | MISC(100%) = 0.00

TOTAL CONNECTED LOAD (VA): 29,045.00
TOTAL CONNECTED CURRENT (A): 80.62
TOTAL DEMAND LOAD (VA): 30,642.75
TOTAL DEMAND CURRENT (A) 85.06

NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED
NOTES: 1. PROVIDE CIRCUIT BREAKER; SIZE AS INDICATED. NEW BREAKER AIC SHALL MATCH THE EXISTING BREAKER AIC

DP(EXISTING)	A(EXISTING)
DP(REVISED)	A(REVISED)
	-

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SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
FIRE STATION 65 4966 SOUTH 298th STREET,
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PROJECT # 2015137

BID SET

ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE

ELECTRICAL PANEL SCHEDULES

SHEET:

E-601

PANEL: E (EXISTING) | **3** PH | **4** WIRE | **VOLTAGE:** 208Y/120V | **225A MLO**
LOC: | **MOUNT:** SURFACE | **FEED:** BOTTOM
TYPE: NEMA 1; FED BY 150A-3P BREAKER | **POLES:** 42 | **SF MAINS:** | **22,000 AIC**

LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. BRKR P	CIR. BRKR AMP	A	B	C	CIR. BRKR P	CIR. BRKR AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE
D	500	BATTERY CHARGER	1	1	20	1417			1	20	2	LTS - HALLWAY	917	L
L	754	LTS - 114	3	1	20		2006		1	20	4	LTS - KITCHEN, RESTRMS	1252	L
L	1044	LTS - 116	5	1	20			1144	1	20	6	ALARM COND. LT	100	D
R	360	RECEPT - APP BAY	7	1	20	1056			1	20	8	HW CIRC PUMP	696	MO
R	360	RECEPT - APP BAY	9	1	20		888		1	20	10	EXH FAN	528	MO
R	360	RECEPT - TELEPHONE BOARD	11	1	20			888	1	20	12	EXH FAN - TOILET	528	MO
A	360	RECEPT - KITCHEN	13	1	20	888			1	20	14	EXH FAN - OFFICE	528	MO
A	900	REFRIG	15	1	20		1428		1	20	16	EXH FAN	528	MO
A	1200	MICROWAVE	17	1	20			2200	1	20	18	FIRE ALARM CONTROL PANEL	1000	D
MO	696	FUEL PUMP	19	1	20	1696			1	20	20	HEATERS	1000	H
D	1000	BATTERY CHARGER	21	1	20		1200		1	20	22	PADDLE FAN	200	MO
D	600	GEN SET HEATER	23	1	20			1500	1	30	24	PANEL EP (1000VA POWER COND)	900	SF
D	200	FUEL PUMP CARD READER	25	1	20	918			2		26	DOOR OPERATOR	718	D
D	500	BATTERY CHARGER	27	1	20		1218			15	28		718	D
D	500	BATTERY CHARGER	29	1	20			1218	2		30	DOOR OPERATOR	718	D
D	718	DOOR OPERATOR	31	2		1436				15	32		718	D
D	718		33		15		1436		2		34	DOOR OPERATOR	718	D
D	718	DOOR OPERATOR	35	2				1436		15	36		718	D
D	718		37		15	2637			3		38		1919	MO
D	718	DOOR OPERATOR	39	2			2637				40	AC UNIT	1919	MO
D	718		41		15			2637		20	42		1919	MO
	13642	TOTAL			THIS PANEL->	10048	10813	11023				TOTAL	18242	
						10048	10813	11023						

LIGHTING(125%) = 4958.75
RECEPTS<=10000(100%) = 1980.00
RECEPTS>10000(50%) = 0.00
RECEPTS TOTAL = 1980.00
ELECTRIC HEAT(100%) = 1000.00
LARGEST MOTOR(125%) = 0.00
OTHER MOTORS(100%) = 9461.00
MOTOR TOTAL = 9461.00
WATER HEATERS(100%) = 0.00
KITCHEN LOADS(65%) = 0.00
APPLIANCES(100%) = 2460.00
DEDICATED(100%) = 13016.00
MISC(100%) = 0.00

TOTAL CONNECTED LOAD (VA): 31,884.00
TOTAL CONNECTED CURRENT (A): 88.50
TOTAL DEMAND LOAD (VA): 32,875.75
TOTAL DEMAND CURRENT (A) 91.25

NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED

PANEL: E (EXISTING) REVISED | **3** PH | **4** WIRE | **VOLTAGE:** 208Y/120V | **225A MLO**
LOC: | **MOUNT:** SURFACE | **FEED:** BOTTOM
TYPE: NEMA 1; FED BY 150A-3P BREAKER | **POLES:** 42 | **SF MAINS:** | **22,000 AIC**

LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. BRKR P	CIR. BRKR AMP	A	B	C	CIR. BRKR P	CIR. BRKR AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE
D	500	BATTERY CHARGER	1	1	20	1183			1	20	2	**LTS - 108A-E,103-107,111**	**683**	L
L	**1242**	**LTS - 115 APP BAY**	3	1	20		1422		1	20	4	**ALERTING LIGHTS**	**180**	L
L	**270**	**LTS - 119,120**	5	1	20			370	1	20	6	ALARM COND. LT	100	D
R	360	RECEPT - APP BAY	7	1	20	1056			1	20	8	HW CIRC PUMP	696	MO
R	360	RECEPT - APP BAY	9	1	20		888		1	20	10	EXH FAN	528	MO
R	360	RECEPT - TELEPHONE BOARD	11	1	20			888	1	20	12	EXH FAN - TOILET	528	MO
A	**900**	**REFRIGERATOR**	13	1	20	1428			1	20	14	EXH FAN - OFFICE	528	MO
A	900	REFRIG	15	1	20		1428		1	20	16	EXH FAN	528	MO
A	1200	MICROWAVE	17	1	20			2200	1	20	18	FIRE ALARM CONTROL PANEL	1000	D
MO	696	FUEL PUMP	19	1	20	1696			1	20	20	HEATERS	1000	H
D	1000	BATTERY CHARGER	21	1	20		1200		1	20	22	PADDLE FAN	200	MO
D	600	GEN SET HEATER	23	1	20			1500	1	30	24	PANEL EP	900	SF
D	200	FUEL PUMP CARD READER	25	1	20	1032			2		26	**DOOR OPERATOR**	**832**	D
D	500	BATTERY CHARGER	27	1	20		1332			15	28		**832**	D
D	500	BATTERY CHARGER	29	1	20			1400	**1**	**20G**	30	**REFRIGERATOR (NOTE 2)**	**900**	A
D	**832**	**DOOR OPERATOR**	31	2		2751			**3**		32		**1919**	MO
D	**832**		33		15		2751				34	**CU-1 (NOTE 1)**	**1919**	MO
D	**832**	**DOOR OPERATOR**	35	2				2751		**30**	36		**1919**	MO
D	**832**		37		15	2751			**3**		38		**1919**	MO
D	**832**	**DOOR OPERATOR**	39	2			2751				40	**CU-2 (NOTE 1)**	**1919**	MO
D	**832**		41		15			2751		**30**	42		**1919**	MO
	14580	TOTAL			THIS PANEL->	11897	11772	11860				TOTAL	20949	
						11897	11772	11860						

LIGHTING(125%) = 2968.75
RECEPTS<=10000(100%) = 1980.00
RECEPTS>10000(50%) = 0.00
RECEPTS TOTAL = 1980.00
ELECTRIC HEAT(100%) = 1000.00
LARGEST MOTOR(125%) = 0.00
OTHER MOTORS(100%) = 15218.00
MOTOR TOTAL = 15218.00
WATER HEATERS(100%) = 0.00
KITCHEN LOADS(65%) = 0.00
APPLIANCES(100%) = 3900.00
DEDICATED(100%) = 11056.00
MISC(100%) = 0.00

TOTAL CONNECTED LOAD (VA): 35,529.00
TOTAL CONNECTED CURRENT (A): 98.62
TOTAL DEMAND LOAD (VA): 36,122.75
TOTAL DEMAND CURRENT (A) 100.27

NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED

1. **PROVIDE CIRCUIT BREAKER, SIZE AS INDICATED. NEW BREAKER AIC SHALL MATCH EXISTING AIC RATING**
2. **PROVIDE GFCI CIRCUIT BREAKER, SIZE AS INDICATED. NEW BREAKER AIC SHALL MATCH EXISTING AIC RATING**

PANEL: EP (EXISTING) | **1** PH | **2** WIRE | **VOLTAGE:** 120V | **100A MLO**
LOC: | **MOUNT:** SURFACE | **FEED:** BOTT | **BUS**
TYPE: NEMA 1 | **POLES:** 12 | **SF MAINS:** | **10,000AIC MINIMUM**

LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. BRKR P	CIR. BRKR AMP	A	CIR. BRKR P	CIR. BRKR AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE
		SPARE	1	1	20	180	1	20	2	RECEPT - 101	180	R
		SPARE	3	1	20	180	1	20	4	RECEPT - 101	180	R
R	180	RECEPT - WATCH DESK	5	1	20	360	1	20	6	RECEPT - 101	180	R
		SPARE	7	1	20	180	1	20	8	RECEPT - 102	180	R
		SPACE	9						10	SPACE		
		SPACE	11						12	SPACE		
	180	TOTAL			THIS PANEL->	900				TOTAL	720	
						900						

LIGHTING(125%) = 0.00
RECEPTS<=10000(100%) = 900.00
RECEPTS>10000(50%) = 0.00
RECEPTS TOTAL = 900.00
ELECTRIC HEAT(100%) = 0.00
LARGEST MOTOR(125%) = 0.00
OTHER MOTORS(100%) = 0.00
MOTOR TOTAL = 0.00
WATER HEATERS(100%) = 0.00
KITCHEN LOADS(65%) = 0.00
APPLIANCES(100%) = 0.00
DEDICATED(100%) = 0.00
MISC(100%) = 0.00

TOTAL CONNECTED LOAD (VA): 900.00
TOTAL CONNECTED CURRENT (A): 7.50
TOTAL DEMAND LOAD (VA): 900.00
TOTAL DEMAND CURRENT (A): 7.50

NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED

PANEL: B (NEW) | **3** PH | **4** WIRE | **VOLTAGE:** 208Y/120V | **200A MLO**
LOC: DAY ROOM | **MOUNT:** SURFACE | **FEED:** BOTTOM
TYPE: NEMA 1 | **POLES:** 42 | **SF MAINS:** | **22,000AIC MINIMUM**

LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. BRKR P	CIR. BRKR AMP	A	B	C	CIR. BRKR P	CIR. BRKR AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE
		SPARE	1	1	20	1500			3		2		1500	D
MO	1176	MUA	3	1	20		2676				4	EXTRACTOR	1500	D
H	750	RCP-1/RCP-2	5	2				2250		20	6		1500	D
H	750		7		20	3417			3		8		2667	D
MO	528	EF-1	9	1	20		3195				10	DRYER	2667	D
		SPARE	11	1	20			2667		30	12		2667	D
H	4333		13	3		5233			1	20	14	RECEPT - 116,101,120	900	R
H	4333	DH-1	15				5233		1	20	16	RECEPT - 116.101,122,209	900	R
H	4333		17		50			5413	1	20	18	RECEPT - 116,101,121	1080	R
WH	2750	WH-1	19	2		3110			1	20	20	RECEPT - APP 115	360	R
WH	2750		21		30		3110		1	20	22	RECEPT - APP 115	360	R
		SPARE	23	1	20			600	1	20	24	DOOR HOLD OPENS	600	D
		SPACE	25	1	20				1	20	26	SPARE		
		SPACE	27	1	20				1	20	28	SPARE		
		SPACE	29	1	20				1	20	30	SPARE		
		SPACE	31								32	SPACE		
		SPACE	33								34	SPACE		
		SPACE	35								36	SPACE		
		SPACE	37								38	SPACE		
		SPACE	39								40	SPACE		
		SPACE	41								42	SPACE		
	21703	TOTAL			THIS PANEL->	13260	14214	10930				TOTAL	16701	
						13260	14214	10930						

LIGHTING(125%) = 0.00
RECEPTS<=10000(100%) = 3600.00
RECEPTS>10000(50%) = 0.00
RECEPTS TOTAL = 3600.00
ELECTRIC HEAT(100%) = 14499.00
LARGEST MOTOR(125%) = 0.00
OTHER MOTORS(100%) = 1704.00
MOTOR TOTAL = 1704.00
WATER HEATERS(100%) = 5500.00
KITCHEN LOADS(65%) = 0.00
APPLIANCES(100%) = 0.00
DEDICATED(100%) = 13101.00
MISC(100%) = 0.00

TOTAL CONNECTED LOAD (VA): 38,404.00
TOTAL CONNECTED CURRENT (A): 106.60
TOTAL DEMAND LOAD (VA): 38,404.00
TOTAL DEMAND CURRENT (A) 106.60

NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED

E (EXISTING)	EP (EXISTING)
E (REVISED)	B (NEW)

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09/03/21

SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
FIRE STATION 65 4966 SOUTH 298th STREET,
AUBURN, WA 98001

PROJECT # 2015137

BID SET

ISSUED: SEPTEMBER 3, 2021

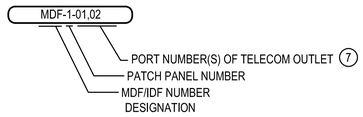
REVISION SCHEDULE

ELECTRICAL PANEL SCHEDULES

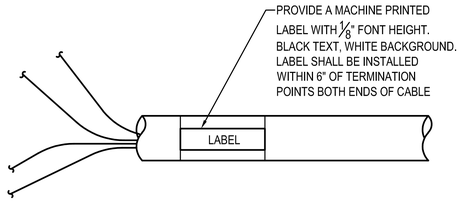
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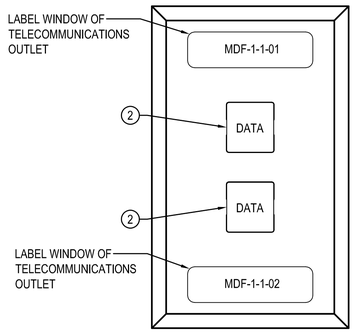
*VERIFY WITH ONWER FOR PREFERRED LABELING INFORMATION



1 TELECOMMUNICATIONS OUTLET LABEL IDENTIFICATION FORMAT
SCALE: DIAGRAMMATIC



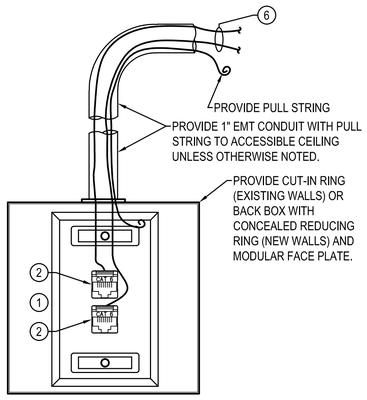
2 TYPICAL CAT6 HORIZONTAL CABLE LABELING
SCALE: DIAGRAMMATIC



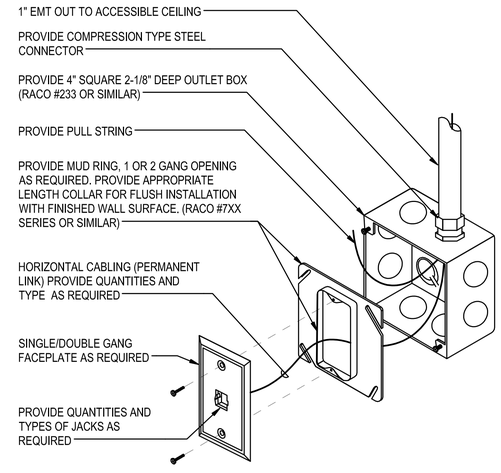
3 TYPICAL TELECOMMUNICATIONS OUTLET LABELING
SCALE: DIAGRAMMATIC

TELECOMMUNICATIONS OUTLET CONSTRUCTION NOTES

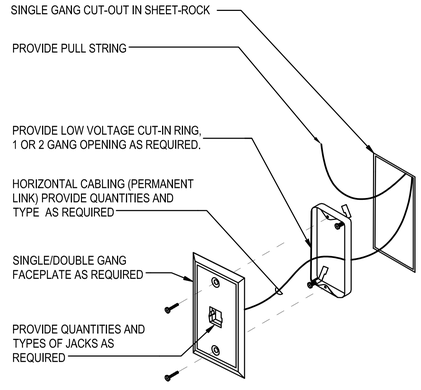
1. SEE SECTION 27 2000 FOR TELECOMMUNICATIONS OUTLET TYPE, STYLE, AND COLOR.
2. PROVIDE WHITE TELECOMMUNICATIONS WALL OUTLET WITH STAINLESS STEEL FACEPLATES. TELECOMMUNICATIONS PORTS ON PATCH PANELS LOCATED IN MDF/IDF TO MATCH COLOR OF CABLE TERMINATED ON EACH PORT - COLORS DIFFER BY SYSTEM.
3. PROVIDE (1) CAT 6 CABLE FROM THE TELECOMMUNICATIONS OUTLET TO THE TELECOMMUNICATIONS ROOM FOR EACH ACCESS CONTROL PANEL AND ADDITIONAL DEVICES AS NOTED. PROVIDE CABLE COLOR AS SPECIFIED IN SECTION 27 20 00.
4. PROVIDE (2) CAT 6 CABLES FROM THE TELECOMMUNICATIONS OUTLET TO THE TELECOMMUNICATIONS ROOM FOR EACH CCTV CAMERA AND ADDITIONAL DEVICES AS NOTED. PROVIDE CABLE COLOR AS SPECIFIED IN SECTION 27 20 00.
5. PROVIDE A 25 FOOT SERVICE LOOP IN THE ACCESSIBLE CEILING SPACE ATTACHED TO STRUCTURE OR TRUSS/BEAM, UNLESS OTHERWISE NOTED.
6. PROVIDE (2) CAT6 CABLES FROM THE TELECOMMUNICATION OUTLET TO THE NEAREST TELECOMMUNICATIONS ROOM. PROVIDE THE CAT6 CABLE COLOR AS SPECIFIED IN SECTION 27 2000.
7. STRUCTURED CABLING LABELING/NUMBERING IN ANY GIVEN ROOM STARTS AT THE FIRST CABLE/PORT LOCATION CLOSEST TO THE MAIN ENTRY DOOR OF THE ROOM AND WORKS AROUND THE ROOM CLOCKWISE TO INCLUDE ALL WAP, CCTV, ACCESS CONTROL AND DATA LOCATIONS - PENDING OWNER'S FINAL VERIFICATION.



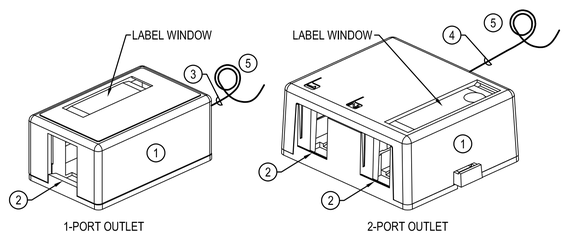
4 TYPICAL TELECOMMUNICATIONS TWO PORT OUTLET
SCALE: DIAGRAMMATIC



5 TYPICAL TELECOMMUNICATIONS OUTLET INSTALLATION NEW WALLS
SCALE: DIAGRAMMATIC



6 TYPICAL TELECOMMUNICATIONS OUTLET INSTALLATION EXISTING WALLS
SCALE: DIAGRAMMATIC



PLEASE NOTE: ONLY INSTALL THIS OUTLET TYPE IN THE FOLLOWING LOCATIONS:
1. IN AN ACCESSIBLE CEILING SPACE ATTACHED TO STRUCTURE, SUSPENSION WIRE OR TRUSS/BEAM. NO HIGHER THAN 2' ABOVE FINISHED CEILING LEVEL.
2. IN A JUNCTION BOX.
3. IN THE MDF ROOM OR DESIGNATED IDF LOCATION.

7 TYPICAL TELECOMMUNICATIONS OUTLET INSTALLATION ACCESSIBLE CEILING SPACES
SCALE: DIAGRAMMATIC

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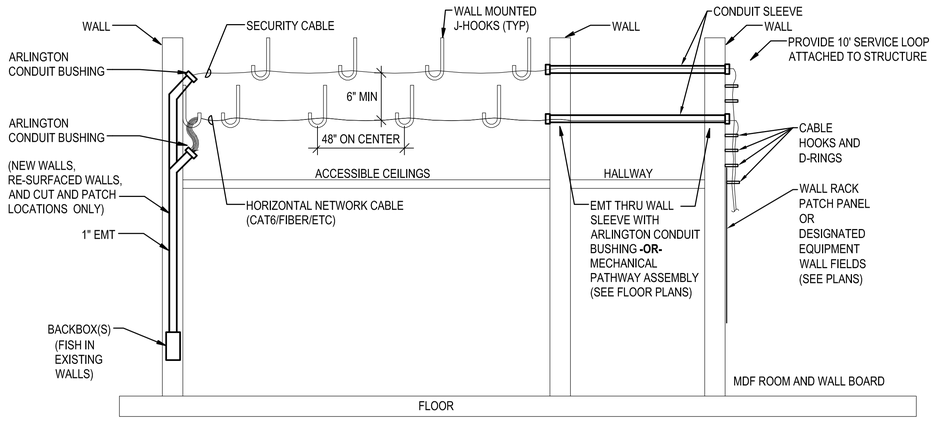
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PROJECT # 2015137
BID SET
ISSUED: SEPTEMBER 3, 2021

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TELECOM OUTLET DETAILS

SHEET:
E-701



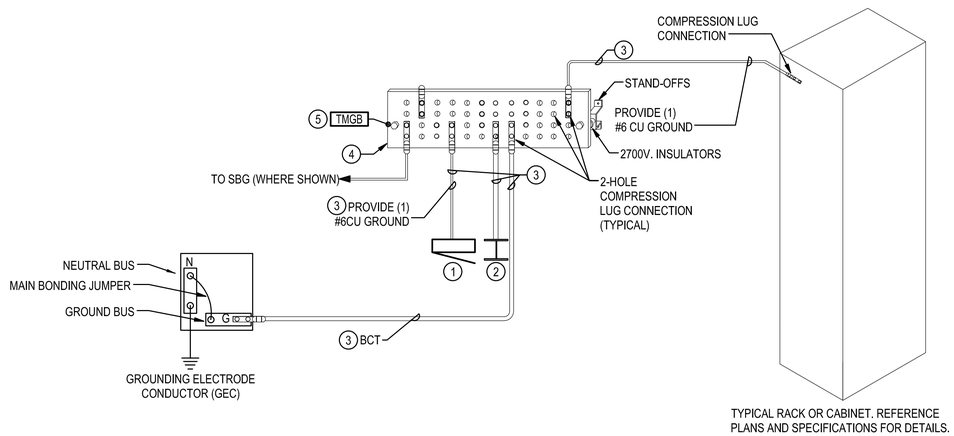
1 J-HOOK AND CABLE PATHWAYS SECTION DETAIL
SCALE: DIAGRAMMATIC

CONSTRUCTION NOTES

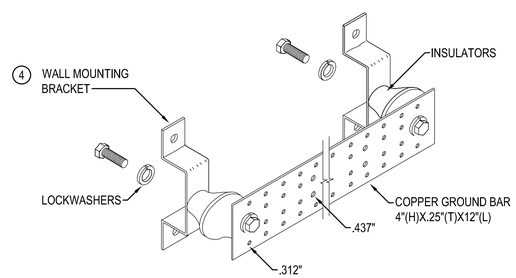
1. PROVIDE CONNECTION TO MAIN PANEL BOARD.
2. PROVIDE BOND CONNECTION TO BUILDING STEEL, SIZED PER FIGURE 6.3.2 (SIZING OF THE TBB) OF TIA-607-B2.
3. PROVIDE COPPER GROUND CONDUCTOR WITH GREEN OUTER JACKET, SIZED AS REQUIRED. REFER TO SPECIFICATION 272000 FOR REQUIREMENTS.
4. MOUNT PLATE ON PLYWOOD BACKBOARD.
5. TELECOMMUNICATION MAIN GROUND BUSBAR 4"(H)X.25"(T)X12"(L)

TELECOMMUNICATIONS BONDING BACKBONE (TBB) CONDUCTOR SIZE VS LENGTH	
TBB/GE LINEAR LENGTH m (FT)	**TBB/GE SIZE (AWG)**
LESS THAN 4 (13)	6
4-6 (14-20)	4
6-8 (21-26)	3
8-10 (27-33)	2
10-13 (34-41)	1
13-16 (42-52)	1/0
16-20 (53-66)	2/0
20-26 (67-84)	3/0
26-32 (85-105)	4/0
32-38 (106-125)	250 kcmil
38-46 (126-150)	300 kcmil
46-53 (151-175)	350 kcmil
53-76 (176-250)	500 kcmil
76-91 (251-300)	600 kcmil
GREATER THAN 91 (301)	750 kcmil

SCHEDULE NOTES:
1 MINIMUM TBB/GE SHALL BE #6 AWG. THE TBB SHOULD BE SIZED AT 2 KCMIL PER LINEAR FOOT OF CONDUCTOR LENGTH UP TO A MAXIMUM OF 750 KCMIL.
2 THE BCT SHALL BE, AT A MINIMUM, THE SAME SIZE AS THE LARGEST TBB.
3 THE TABLE IS REFERENCED FROM TIA-607-B 6.3.2 TABLE 1.



2 TYPICAL TELECOMMUNICATIONS GROUNDING AND BONDING DETAIL
SCALE: DIAGRAMMATIC



3 TYPICAL TELECOMMUNICATIONS GROUNDING BAR DETAIL
SCALE: DIAGRAMMATIC

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PATHWAYS AND GROUNDING DETAILS

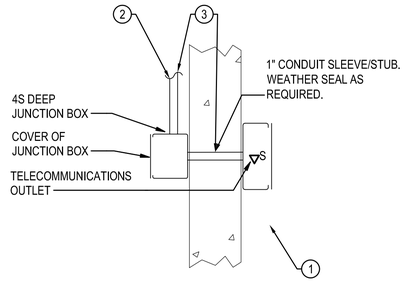
SHEET:
E-702

GENERAL NOTES

1. FOR CLARITY, CONDUITS ARE NOT SHOWN, EXCEPT WHERE NOTED. SEE FLOOR PLANS FOR CONDUIT REQUIREMENTS.
2. SECTION 27 2000 SHALL PROVIDE THE TELECOMMUNICATIONS OUTLET AND THE PATCH CABLES (SIZED TO FIT).
3. MOUNT THIS CAMERA TYPE AS RECOMMENDED BY THE MANUFACTURER AND AS SHOWN.
4. ALL EXTERIOR PENETRATIONS ARE TO BE DRILLED CAREFULLY FROM THE OUTSIDE THROUGH THE GYP-CRETE SIDING/PANELING WITH EVERY EFFORT POSSIBLE MADE TO AVOID DAMAGE BEYOND THE INTENDED PENETRATION.

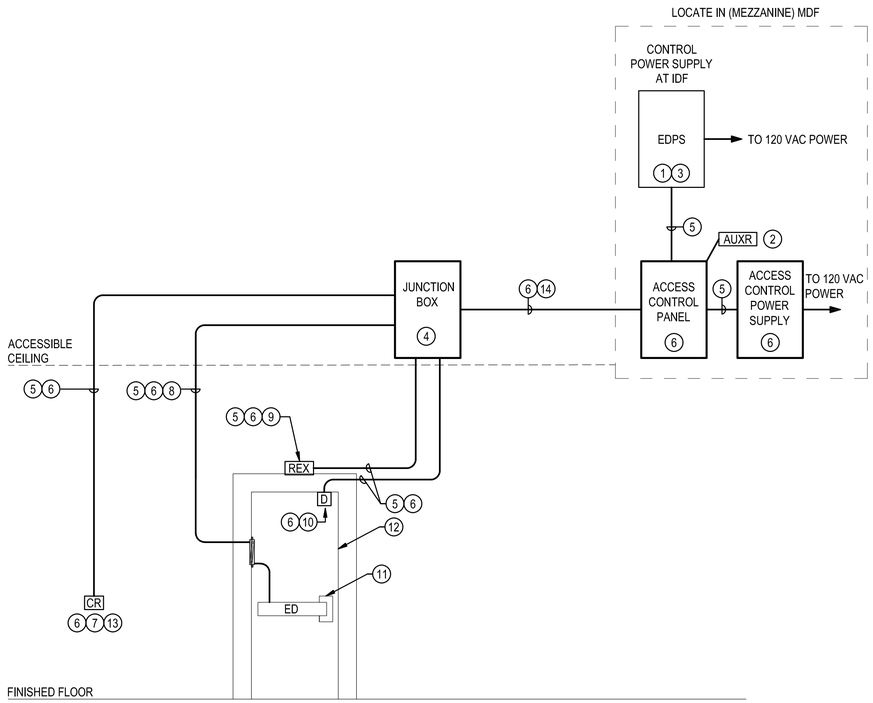
CONSTRUCTION NOTES

1. OWNER FURNISHED OWNER INSTALLED CAMERA AND LIQUID TIGHT FLEX CONDUIT.
2. EXPOSED CONDUITS ARE NOT ALLOWED UNLESS IN APP BAY, STORAGE, OR GARAGES PER SPECS.
3. PROVIDE A CABLE PATHWAY FROM THE JUNCTION BOX TO THE CAMERA, AS REQUIRED. PROVIDE (1) 1" CONDUIT FROM JUNCTION BOX TO THE ACCESSIBLE CEILING SPACE AS REQUIRED.





1 TYPICAL WALL MOUNT CCTV CAMERA MOUNTING DETAIL
SCALE: DIAGRAMMATIC



2 TYPICAL FOR ELECTRIC EXIT DEVICE AND ACCESS CONTROL SYSTEM DIAGRAM
SCALE: DIAGRAMMATIC

ACCESS CONTROL GENERAL NOTES

1. COORDINATE WITH THE DIVISION 8 AND OWNER PRIOR TO ROUGH-IN OF ALL ACCESS CONTROL DEVICES.
2. PROVIDE SURFACE MOUNTED METAL RACEWAY IN ALL AREAS WHERE CONDUIT IS REQUIRED WHEN NOT CONCEALED BY WALLS OR WITHIN ACCESSIBLE CEILING SPACES. PAINT TO MATCH ADJACENT SURFACES.
3. ALL CONNECTIONS MUST BE SOLDERED AND TAPED INDIVIDUALLY. WIRE NUTS AND CRIMP CONNECTIONS ARE NOT ALLOWED.
4. ALL EXTERIOR PENETRATIONS ARE TO BE DRILLED CAREFULLY FROM THE OUTSIDE THROUGH THE GYP-CRETE SIDING/PANELING WITH EVERY EFFORT POSSIBLE MADE TO AVOID DAMAGE BEYOND THE INTENDED PENETRATION.
5. SECURITY CAMERAS, CARD READERS AND DIV.28 SECURITY HARDWARE IS OFOI (OWNER FURNISHED OWNER INSTALLED). ALL RELATED CABLING, PATHWAYS AND INFRASTRUCTURE ARE CFCI (CONTRACTOR FURNISHED CONTRACTOR INSTALLED). PROVIDE 10' SERVICE LOOP AT CONTROL PANEL LOCATION.
   -ADVANCED DIGITAL CABLE (18 AWG 6C WET RATED) FOR EACH EXTERIOR GATE CARD READER.
   -ADVANCED DIGITAL CABLE (18 AWG 4C WET RATED) FOR EACH EXTERIOR GATE CONTROLLER.
   -SMARTWIRE (18 AWG 4C + 22 AWG 6C + 22 AWG 2C + 22 AWG 4C) FOR EACH INTERIOR DOOR.

ACCESS CONTROL CONSTRUCTION NOTES

1. (EDPS) ELECTRIFIED EXIT DEVICE POWER SUPPLY. PROVIDED AND INSTALLED BY OWNER.
2. (AUXR) PROVIDE AUXILIARY RELAY(S), WHERE REQUIRED. PROVIDED AND INSTALLED BY OWNER.
3. LOCATED AT MDF LOCATION TO ALLOW SERVICE OF BATTERY. COORDINATE WITH DIVISION 8 SPECIFICATION AND OWNER FOR POWER CONNECTION BY DIV.26. PROVIDED AND INSTALLED BY OWNER.
4. JUNCTION BOX LOCATED IN NEAREST CLOSEST, ACCESSIBLE CEILING SPACE, OR RECESSED IN WALL ABOVE DOOR WHEN NONE OF THE OTHER LOCATION OPTIONS ARE AVAILABLE. BY DIV.26.
5. PROVIDE 3/4" METAL RACEWAY(S), QUANTITIES AS REQUIRED. PROVIDED AND INSTALLED BY DIVISION 26. CONCEAL WHERE POSSIBLE.
6. ACCESS CONTROL SYSTEM CABLING AND PATHWAYS BY DIV.26 CONTRACTOR. COIL AT JUNCTION BOX AND CONTROL PANEL AS NOTED. WIRES CONNECTED/TERMINATED BY OWNER.
7. (CR) EXTERIOR CARD READER WITH RED AND GREEN LED'S. CARD READER PROVIDED AND INSTALLED BY OWNER, COORDINATE WITH OWNER FOR ALL ROUGH IN AND CONDUIT PATHWAYS.
8. CABLING FOR THE ELECTRIFIED EXIT DEVICE (ED). SEE NOTE 6.
9. (REX) REQUEST TO EXIT MOTION SENSOR. PROVIDED AND INSTALLED BY OWNER IF NOT INTEGRATED INTO DOOR HARDWARE. VERIFY WITH OWNER IF ROUGH-IN IS REQUIRED PRIOR TO ROUGH-IN. REX MAY BE INTEGRATED INTO EXIT DEVICE, REFER TO DOOR HARDWARE SCHEDULE.
10. DOOR POSITION SWITCH. PROVIDED AND INSTALLED BY OWNER. COORDINATE WITH OWNER FOR ROUGH-IN REQUIREMENTS AND PATHWAYS.
11. (ED) ELECTRIFIED EXIT DEVICE OR ELECTRIC STRIKE. PROVIDED AND INSTALLED BY DIVISION 8. ACCESS CONTROL WIRING/ CONNECTION BY OWNER. COORDINATE WITH OWNER FOR ROUGH-IN REQUIREMENTS AND PATHWAYS.
12. REMOVABLE MULLION. PROVIDED BY DIVISION 8.
13. FOR EXTERIOR CARD READERS WHERE SURFACE MOUNT CONDUITS ARE APPROVED, CONDUIT SHALL BE ROUTED ON INTERIOR W/LB THROUGH WALL TO CARD READER. SEAL AROUND CONDUIT AND CAULK AROUND BACK BOX. CORE DRILLING REQUIRED.
14. PROVIDE 1" METAL RACEWAY(S) THROUGH IN-ACCESSIBLE CEILINGS AND SLEEVES BETWEEN ACCESSIBLE CEILING SPACES, QUANTITIES AS REQUIRED. PROVIDED AND INSTALLED BY DIVISION 26. CONCEAL WHERE POSSIBLE.

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CCTV AND ACCESS CONTROL DETAILS

SHEET:

E-703

FIRE ALARM SYSTEM LEGEND

SYMBOL	DESCRIPTION
FACP	FIRE ALARM SYSTEM CONTROL PANEL
FAPS	FIRE ALARM SYSTEM POWER SUPPLY FOR NOTIFICATION DEVICES
FARAP	FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL
AES	AES WIRELESS TRANSCEIVER
BAT	BATTERY CABINET
GMAP	GRAPHIC MAP
P	MANUAL PULL STATION - WALL MOUNT OPERABLE PART BETWEEN 42" AND 48" ABOVE FINISH FLOOR
	SMOKE DETECTOR (CEILING MOUNTED)
	HEAT DETECTOR (CEILING MOUNTED)
	DUCT SMOKE DETECTOR
C/O	CARBON MONOXIDE SENSOR
FS	SPRINKLER SYSTEM FLOW SWITCH
PS	SPRINKLER SYSTEM PRESSURE SWITCH
TS	SPRINKLER SYSTEM TAMPER SWITCH
BFP	SPRINKLER SYSTEM BACKFLOW PREVENTER
PIV	SPRINKLER SYSTEM POST INDICATOR VALVE
M	FIRE ALARM SYSTEM MONITOR MODULE
R	FIRE ALARM SYSTEM RELAY MODULE
	COMBINATION HORN / STROBE - CEILING MOUNTED
	FIRE ALARM CLEAR (WHITE) STROBE ONLY - CEILING MOUNTED
	COMBINATION HORN / STROBE - WALL MOUNTED WITH THE ENTIRE STROBE LENS NOT LESS THAN 80" OR MORE THAN 96" ABOVE THE FINISHED FLOOR OR NOT MORE THAN 6" BELOW THE CEILING, WHICHEVER IS LOWER
	FIRE ALARM CLEAR (WHITE) STROBE ONLY - WALL MOUNTED WITH THE ENTIRE STROBE LENS NOT LESS THAN 80" OR MORE THAN 96" ABOVE THE FINISHED FLOOR OR NOT MORE THAN 6" BELOW THE CEILING, WHICHEVER IS LOWER
	SPRINKLER SYSTEM ALARM BELL (24 VOLTS D.C.)
RT / RI	REMOTE TEST STATION / REMOTE INDICATOR
	DOOR HOLDER
FSD	FIRE / SMOKE DAMPER
	TRANSMITTER ANTENNA

MISCELLANEOUS

SYMBOL	DESCRIPTION
1 / A	MECHANICAL EQUIPMENT CONNECTION - "1" INDICATES MECHANICAL EQUIPMENT TYPE AND "A" INDICATES THE MECHANICAL EQUIPMENT IDENTIFICATION.
1	CONSTRUCTION NOTES
1	RISER CONSTRUCTION NOTES
	ALL NEW DEVICES INDICATED WITH A DARK CONTINUOUS LINE TYPE
J	JUNCTION BOX
F	F INDICATES FIXED TEMPERATURE TYPE
FA	FA INDICATES FIRE ALARM
LF	LF INDICATES LOW FREQUENCY HORN (520Hz)
RD	RD INDICATES RETURN DUCT
SD	SD INDICATES SUPPLY DUCT
SB	SB INDICATES SOUNDER BASE
W	W INDICATES WEATHERPROOF DEVICE

FIRE ALARM SYSTEM EQUIPMENT REQUIREMENTS

1. THE FIRE ALARM SYSTEM SHALL BE FULLY FUNCTIONAL WITHOUT THE USE OF PRIMARY POWER. THE FIRE ALARM SYSTEM SHALL BE PROVIDED WITH A MINIMUM OF 24 HOURS OF STANDBY OPERATION FOLLOWED BY AN ADDITIONAL 5 MINUTES OF ALARM OPERATION.
2. ALL BATTERIES SHALL PROVIDE AT LEAST 25% SPARE CAPACITY.
3. THE FIRE ALARM SYSTEM CONTROL PANEL (FACP) MAY INCLUDE INTERNAL POWER SUPPLIES. THE FIRE ALARM SYSTEM POWER SUPPLIES (FAPS) ARE SHOWN FOR REFERENCE ONLY. PROVIDE ADDITIONAL QUANTITIES OF POWER SUPPLIES AS REQUIRED FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM. THE FIRE ALARM SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE ELECTRICAL CONTRACTOR FOR ALL POWER CONNECTIONS THE FIRE ALARM SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL COSTS ASSOCIATED WITH ALL NON-COORDINATED POWER CONNECTIONS.
4. PROVIDE 25% SPARE CAPACITY FOR NOTIFICATION POWER SUPPLIES.
5. PROVIDE MULTIPLE INITIATING DEVICE CIRCUITS AND SIGNALING LINE CIRCUITS SO THAT FAILURE OF ONE CIRCUIT DOES NOT CAUSE THE FACILITY TO LOSE OVER 50% OF ITS DETECTION CAPABILITY PER FLOOR.
6. PROVIDE A MINIMUM OF 2 ISOLATION MODULES PER CIRCUIT. EACH CIRCUIT SHALL HAVE A MAXIMUM OF 20 DEVICES PER ISOLATION MODULE.
7. PROVIDE BATTERY CALCULATIONS FOR ALL FIRE ALARM SYSTEMS.

FIRE ALARM SYSTEM CABLING AND CONDUIT REQUIREMENTS

1. ALL INITIATING AND NOTIFICATION CIRCUITS SHALL BE "CLASS B" WIRING.
2. ALL "CLASS B" WIRING CIRCUITS SHALL BE PROVIDED WITH AN "END-OF-LINE" RESISTOR INSTALLED AT THE END OF EACH CIRCUIT.
3. THE USE OF T-TAPPING WILL BE ALLOWED ON S.L.C. (SIGNALING LINE CIRCUIT) CIRCUITS ONLY. T-TAPPING IS NOT ALLOWED ON ANY CIRCUIT REQUIRING AN END OF LINE RESISTOR.
4. ALL WIRE TERMINATIONS SHALL BE BY USE OF WIRE NUTS OR SCREW TYPE TERMINATION BLOCKS.
5. THE USE OF CRIMPED CONNECTORS, TWISTING OF WIRES, ETC. SHALL NOT BE ALLOWED IN J-BOXES, TERMINAL CABINETS, OR ENCLOSURES.
6. ALL WIRES OUTSIDE OF J-BOXES, TERMINAL CABINETS, OR ENCLOSURES SHALL BE FREE OF SPLICES.
7. CONDUITS SHALL BE CONCEALED IN CEILING SPACES, WALLS, AND OTHER AREAS WHEREVER POSSIBLE.
8. ALL CONDUIT SHALL BE INSTALLED IN A PARALLEL OR PERPENDICULAR FASHION THAT IS TIGHT TO STRUCTURE. THE CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTING WITH OTHER TRADES.
9. FIRE ALARM CABLING INSTALLED ABOVE ACCESSIBLE CEILINGS SHALL BE ALLOWED TO BE INSTALLED AS OPEN CABLING. PROVIDE "D" RING HANGER FOR ALL OPEN CABLING AT A MAXIMUM SPACING OF 5'-0" ON CENTER.
10. CABLING THAT IS INSTALLED IN WALLS, CABLING THAT IS INSTALLED BELOW 8'-0" IN ELEVATION THAT IS SUBJECT TO DAMAGE, AND CABLING THAT IS INSTALLED ABOVE INACCESSIBLE CEILINGS SHALL BE INSTALLED IN CONDUIT.
11. CONDUITS PASSING THROUGH BUILDING EXPANSION JOINTS OR BUILDING SEISMIC JOINTS SHALL HAVE JUNCTION BOXES AT EACH SIDE OF THE EXPANSION / SEISMIC JOINT. PROVIDE SECTION OF FLEXIBLE CONDUIT BETWEEN JUNCTION BOXES AND GROUNDING BUSHINGS WITH #12 GROUNDING CABLE TO MAINTAIN CONTINUITY BETWEEN ALL (2) JUNCTION BOXES. PROVIDE FLEX CONDUIT AND GROUNDING CABLE OF SUFFICIENT LENGTH TO ACCOMMODATE THE CALCULATED BUILDING MOVEMENT PLUS 6" OF ADDITIONAL MOVEMENT. PROVIDE QUANTITIES AS REQUIRED FOR THE GYM #115, PLATFORM #122, AND COMMONS AREA #120.
12. ALL EXPOSED SURFACE MOUNTED RACEWAYS IN FINISHED SPACES BELOW 8'-0" IN ELEVATION SHALL BE A MINIMUM OF SERIES 700 METAL WIREMOLD OR EQUAL. THE INSTALLATION OF EXPOSED ELECTRICAL METALLIC TUBING (EMT) IN FINISHED SPACES BELOW 8'-0" IN ELEVATION WILL NOT BE ALLOWED.
13. CONDUITS SHALL NOT EXCEED FILL RATING OF 40% AS DEFINED BY THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (N.F.P.A. #70). PROVIDE SIZES AND QUANTITIES AS REQUIRED.
14. CONDUIT SHALL HAVE PAINTED 3/4" WIDE BANDS AT 20'-0" INTERVALS AND WITHIN 1'-0" OF EACH SIDE OF A FLOOR OR A WALL PENETRATION OR SHALL BE INSTALLED IN RED PAINTED CONDUIT.
15. WHERE EXPOSED TO VIEW IN FINISHED SPACES, PAINT ALL NEW CONDUITS, MOUNTING HARDWARE, AND RACEWAYS TO MATCH THE ADJACENT SURFACES.
16. ALL NEW FIRE ALARM SYSTEM JUNCTION BOXES SHALL BE PAINTED RED AND ANNOTATED "FIRE ALARM POWER LIMITED" ON THE COVER IN BLACK BOLD PRINT HAVING MINIMUM CHARACTER FONT SIZE ¼" TALL X ¼" WIDE.

FIRE ALARM SYSTEM GENERAL NOTES

1. BCE FIRE ALARM SYSTEM CONTRACT DRAWINGS ARE NOT A COMPLETE DESIGN OR 100% LAYOUT AND ARE SIMPLY CONCEPTUAL. THIS LAYOUT IDENTIFIES PROPOSED LOCATIONS OF DEVICES AND KEY CRITICAL ASPECTS OF THE FIRE ALARM SYSTEM. THEY ARE MEANT TO PROVIDE A GUIDE FOR COORDINATING ARCHITECTURAL, ELECTRICAL, AND MECHANICAL FEATURES OF THE BUILDING DESIGN AND TO AID THE NICET DESIGNER IN CREATING SHOP DRAWINGS IN ACCORDANCE WITH NFPA 72, STATE & LOCAL REQUIREMENTS. THE CONTRACTORS AND THE FIRE ALARM SYSTEM DESIGNER SHALL COORDINATE THE EXACT QUANTITIES AND LOCATIONS OF ALL SYSTEM COMPONENTS BETWEEN TRADES AND/OR EXISTING CONDITIONS.
2. PROVIDE ALL MATERIALS, EQUIPMENT, LABOR, DESIGN AND PROGRAMMING FOR A COMPLETE, INTELLIGENT (ANALOG) AND ADDRESSABLE (DIGITAL) LOW VOLTAGE 24 VOLT D.C., FULLY OPERATIONAL FIRE ALARM SYSTEM. ALL EQUIPMENT PROVIDED FOR THIS PROJECT SHALL BE NEW, CURRENTLY MANUFACTURED, AND SHALL BE DELIVERED TO THE PROJECT SITE WITH THE ORIGINAL FACTORY SEAL INTACT. MATERIALS AND WORKMANSHIP SHALL FULLY COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (N.F.P.A. #70), NATIONAL FIRE ALARM AND SIGNALING CODE (N.F.P.A. #72), AND THE LAWS AND REGULATIONS OF WASHINGTON STATE.
3. THE INITIATION DEVICES, NOTIFICATION APPLIANCES, HEAD END EQUIPMENT, ETC. SHOWN ON THESE CONTRACT DOCUMENTS ARE TO ASSIST THE FIRE ALARM CONTRACTOR IN THE DESIGN OF THE FIRE ALARM SYSTEM. ALL REQUIRED DEVICES MAY NOT BE INDICATED AND WILL BE THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO PROVIDE.
4. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL WALL MOUNTED DEVICES WITH ARCHITECTURAL ELEVATIONS.
5. CORE DRILLED HOLES SHALL NOT PENETRATE THROUGH ANY STRUCTURAL BEAMS, REBAR CONCRETE SLABS, AND / OR WALLS THAT MAY COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING.
6. WHEN PENETRATING FIRE RATED WALLS, FLOORS, OR CEILINGS, THE CONTRACTOR SHALL UTILIZE APPROVED FIRE RATED PENETRATION METHODS. THE FIRE RATING OF THE WALLS, FLOORS, OR CEILINGS SHALL BE MAINTAINED AFTER THE CONDUIT HAS BEEN INSTALLED.
7. EXISTING CONDUITS MAY BE REUSED BY THE FIRE ALARM SYSTEM CONTRACTOR IF DEEMED NECESSARY.
8. PRIOR TO ROUGH-IN, COORDINATE EXACT LOCATIONS OF FIRE ALARM APPLIANCES AND DEVICES WITH THE GENERAL ELECTRICAL, MECHANICAL, AND FIRE PROTECTION CONTRACTORS.
9. THE GENERAL CONTRACTOR AND FIRE ALARM SYSTEM CONTRACTOR SHALL COORDINATE ALL CUTTING, PATCHING AND FINISH WORK.
10. EACH NEW WATER FLOW SWITCH, PRESSURE SWITCH, OR TAMPER SWITCH SHALL HAVE A SEPARATE AND UNIQUE ADDRESS.
11. ALL MANUAL PULL STATIONS SHALL BE DUAL ACTION, KEY OPERABLE. THE USE OF BREAK GLASS FRONT STATIONS ARE NOT ALLOWED.
12. THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE CARBON MONOXIDE DETECTION IN SPACES WITH FOSSIL FUEL BURNING APPLIANCES, EQUIPMENT, STOVES, OR FIRE PLACES.
13. UNLESS OTHERWISE NOTED IN THESE DRAWINGS, THE BASIS FOR THE VISUAL NOTIFICATION APPLIANCES (STROBES) INDICATED ON THE CONTRACT DOCUMENTS IS THE UTILIZATION OF (75) CANDELA (C.D.) AT A 44'-0" X 44'-0" SPACING FOR CEILING MOUNTED APPLIANCES AND 45'-0" X 45'-0" SPACING FOR WALL MOUNTED APPLIANCES. IF THE FIRE ALARM SYSTEM CONTRACTOR DECIDES TO INSTALL LOWER OUTPUT VISUAL APPLIANCES, IT BECOMES THE RESPONSIBILITY OF THE FIRE ALARM SYSTEM CONTRACTOR TO MEET THE MINIMUM CANDELA (C.D.) RATING AT THE LISTED MAXIMUM ROOM SIZE INDICATED IN TABLE 18.5.5.4.1(A) FOR WALL MOUNTED VISIBLE APPLIANCES OR TABLE 18.5.5.4.1(B) FOR CEILING MOUNTED VISIBLE APPLIANCES IN THE 2013 EDITION OF N.F.P.A. #72.
14. ALL ADDRESSABLE DEVICES AND DETECTOR BASES SHALL BE PERMANENTLY AND CLEARLY LABELED WITH THE DEVICE ADDRESS IN A READILY VISIBLE LOCATION DIRECTLY ON THE DEVICE.
15. PROVIDE NEW CIRCUIT LABELS AND DIRECTORY CARDS FOR PANELS ALTERED AND / OR ADDED BY THIS CONTRACT.

FIRE ALARM SYSTEM AUDIBILITY REQUIREMENTS

1. THE FIRE ALARM SYSTEM CONTRACTOR SHALL PERFORM AUDIBILITY TESTING IN EACH SPACE OF THE BUILDING PRIOR TO ACCEPTANCE TESTING. DOCUMENTATION OF DECIBEL (dB) VALUES RECORDED IN ALL SPACES SHALL BE PROVIDED TO THE ARCHITECT / ENGINEER PRIOR TO ACCEPTANCE TESTING.
   - A. DECIBEL READINGS SHALL BE TAKEN AT A POINT 10'-0" FROM THE APPLIANCE AT AN ELEVATION OF 5'-0" ABOVE FINISHED FLOOR.
   - B. THE SOUND LEVEL SHALL BE A MINIMUM OF 15 DECIBELS (dBs) ABOVE THE AVERAGE AMBIENT SOUND LEVEL.
   - C. THE SOUND LEVEL SHALL BE A MAXIMUM OF 30 DECIBLES (dBs) ABOVE THE AVERAGE AMBIENT SOUND LEVEL.
   - D. THE SOUND LEVEL SHALL BE A MINIMUM OF 5 DECIBELS (dBs) ABOVE THE MAXIMUM SOUND LEVEL HAVING A MINIMUM DURATION OF 60 SECONDS.
   - E. IN SPACES THAT DO NOT MEET THE MINIMUM AUDIBLE (dB) VALUES, THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE ADDITIONAL AUDIBLE NOTIFICATION APPLIANCES UNTIL THE MINIMUM DECIBEL (dB) VALUES ARE OBTAINED.

FIRE ALARM SYSTEM FLOOR PLAN CONSTRUCTION NOTES

1. THE SPRINKLER SYSTEM ALARM BELL (WATER MOTOR GONG) IS EXISTING AND SHALL REMAIN. THE BELL SHALL BE ACTIVATED UPON THE FLOW OF WATER.
2. REVIEW FIRE PROTECTION SPRINKLER SYSTEM DRAWINGS FOR EXACT QUANTITIES AND LOCATIONS OF FIRE ALARM CONNECTION POINTS.
3. THE FIRE ALARM SYSTEM CONTRACTOR SHALL RECESS OR FLUSH MOUNT ALL OF THE FIRE ALARM PANELS IN THE WALL AND COORDINATE WITH THE GENERAL CONTRACTOR WHO SHALL FINISH TRIM OUT AROUND ALL THE FIRE PANELS FOR A CLEAN INSTALLATION.
4. SEE THE FIRE ALARM RISER DIAGRAM ON SHEET FA0.03 FOR MORE INFORMATION.
5. AUDIBLE / VISUAL NOTIFICATION DEVICES TO BE COORDINATED WITH THE INSTALLATION LOCATIONS OF THE MECHANICAL UNITS AND DUCTWORK, SEE MECHANICAL DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT.
6. POST INDICATING VALVE (PIV) AND BACKFLOW PREVENTER (BFP) TAMPER SWITCH MONITORING IS REQUIRED. **SEE SHEET FA1.01 AND CIVIL DRAWINGS FOR LOCATION.** SEE **ELECTRICAL SHEET E1.01** FOR CONDUIT REQUIREMENTS. ADDRESSABLE MONITOR MODULES MUST REMAIN IN A CONDITIONED SPACE AND WET RATED CABLE INSTALLED FROM THE ADDRESSABLE MODULES TO THE OUTSIDE TAMPER SWITCHES VIA 1" CONDUIT PROVIDED BY THE ELECTRICAL CONTRACTOR.
7. THE FIRE ALARM CONTRACTOR SHALL PROVIDE A RELAY MODULE TO CLOSE FIRE SMOKE DAMPER UPON ACTIVATION OF DUCT SMOKE DETECTOR IN ADDITION TO TRANSMITTING A SUPERVISORY SIGNAL AT THE FIRE ALARM / EMERGENCY COMMUNICATION CONTROL PANEL.
8. LOCATION OF AES ANTENNA IF SIGNAL STRENGTH REQUIRES OUTDOOR ANTENNA.
9. SMOKE DETECTOR FOR MAGNETIC DOOR HOLDER RELEASE SHALL BE LOCATED WITHIN 5'-0" OF THE DOOR IT IS SERVING AND INSTALLED ALONG THE CENTERLINE OF THE DOOR OPENING UNLESS SMOKE DETECTION AS PART OF AN OPEN AREA PROTECTION SYSTEM COVERING THE ROOM, CORRIDOR, OR ENCLOSED SPACE ON EACH SIDE OF THE SMOKE DOOR AND THAT ARE LOCATED AND SPACED AS REQUIRED BY NFPA #72 SECTION 17.7.3 SHALL BE PERMITTED TO ACCOMPLISH SMOKE DOOR RELEASE SERVICE.
10. THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE A RELAY MODULE FOR CONNECTION TO THE MAGNETIC DOOR HOLDERS. THE MAGNETIC DOOR HOLDER SHALL RELEASE UPON RECEIVING AN ALARM SIGNAL FROM THE FIRE ALARM SYSTEM CONTROL PANEL.
11. THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE CARBON MONOXIDE DETECTION IN SPACES WITH FOSSIL FUEL BURNING APPLIANCES, EQUIPMENT, STOVES, OR FIRE PLACES PER IBC 915.1.2.
    THE FIRE ALARM / EMERGENCY COMMUNICATION CONTRACTOR SHALL PROVIDE CARBON MONOXIDE DETECTION IN SLEEPING ROOMS PER IBC 915.2.2.
    THE AUDIBLE TONE SHALL BE UNIQUE AND DIFFERENT FROM ALL FIRE ALARM SYSTEM TONES PER NFPA #720
12. DETECTORS MARKED WITH THIS NOTE NUMBER REPRESENTS A SLOPED BEAMED CEILING AREA. PROVIDE SMOKE DETECTION AS REQUIRED BY NFPA #72 SECTION 17.7.3.3 THRU 17.7.3.4 SMOKE DETECTOR SPACING SHALL BE DE-RATED FOR SLOPED CEILINGS HAVING BEAM POCKETS BASED ON THE AVERAGE HEIGHT OF THE CEILING USING TABLE 17.6.3.5.1 OF THE 2013 EDITION OF NFPA #72.
13. INSTALL DUCT SMOKE DETECTOR ON SUPPLY SIDE WITHIN 5FT OF FIRE SMOKE DAMPER. DUCT DETECTOR SHALL BE PROVIDED BY FIREALARM / EMERGENCY COMMUNICATION CONTRACTOR, INSTALLED BY THE MECHANICAL CONTRACTOR WITH CABLING AND TERMINATION PROVIDED BY THE ELECTRICAL CONTRACTOR. FIRE SMOKE DAMPER SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR.

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09/03/21

SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
FIRE STATION 65 4966 SOUTH 298th STREET,
AUBURN, WA 98001

PROJECT # 2015137

BID SET

ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE

FIRE ALARM SYSTEM LEGEND AND NOTES

SHEET:

FA0.01

FIRE ALARM SYSTEM RISER DIAGRAM CONSTRUCTION NOTES

1. THE RISER DIAGRAM IS DIAGRAMMATIC IN NATURE. IT DOES NOT SHOW ALL DEVICES AND DOES NOT REPRESENT ACTUAL CONDUIT OR CABLE ROUTING.
2. THE FIRE ALARM SYSTEM SHALL BE FULLY FUNCTIONAL WITHOUT THE USE OF PRIMARY POWER. THE FIRE ALARM SYSTEM SHALL BE PROVIDED WITH A MINIMUM OF 24 HOURS OF STANDBY OPERATION FOLLOWED BY AN ADDITIONAL 5 MINUTES OF ALARM OPERATION. ALL BATTERIES SHALL BE SIZED TO PROVIDE AT LEAST 20% ADDITIONAL SPARE CAPACITY. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. PROVIDE ALL NECESSARY EQUIPMENT, INTERFACES, OTHER APPURTENANCES, AND PROGRAMMING AS REQUIRED FOR COMMUNICATION TO THE CENTRAL STATION MONITORING COMPANY OR MONITORING STATION.
4. PROVIDE SYSTEM POWER SUPPLIES, WHERE REQUIRED.
5. SEE THE FIRE SPRINKLER SYSTEM DRAWINGS FOR EXACT QUANTITIES AND LOCATIONS OF ALL FIRE SPRINKLER SWITCHES, WHICH SHALL BE MONITORED BY THE FIRE ALARM SYSTEM. IF REPLACED, THESE SWITCHES SHALL BE PROVIDED AND INSTALLED BY SPRINKLER SYSTEM CONTRACTOR.
6. THE SPRINKLER SYSTEM ALARM BELL IS AN EXISTING WATER MOTOR GONG AND SHALL REMAIN. THE ALARM BELL SHALL ACTIVATE UPON THE FLOW OF WATER.
7. PROVIDE SYSTEM CABLES FOR A FULLY FUNCTIONAL SYSTEM, AS REQUIRED.
8. PROVIDE SURGE PROTECTION ON ALL INCOMING PRIMARY POWER SUPPLIES SERVING FIRE ALARM SYSTEM PANELS.
9. THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE A RELAY MODULE TO INITIATE CLOSURE OF THE KITCHEN GAS SOLENOID VALVE UPON ACTIVATION OF THE FIRE ALARM SYSTEM. (NO ANSUL SYSTEM)
10. THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE A RELAY MODULE FOR CONNECTION TO THE MAGNETIC DOOR HOLDERS. THE MAGNETIC DOOR HOLDER SHALL RELEASE UPON RECEIVING AN ALARM SIGNAL FORM THE FIRE ALARM SYSTEM CONTROL PANEL.
11. FIRE ALARM SYSTEM CONTRACTOR SHALL MEASURE AES SIGNAL STRENGTH. SIGNAL STRENGTH SHALL BE A NETCON 5 ORT BETTER. IF AN OUTDOOR ANTENNA IS REQUIRED, MOUNT ANTENNA SO IT REACHES ABOVE THE ROOF LINE OF THE BUILDING.
12. FIRE ALARM GRAPHIC MAP TO CONFORM TO CONTRACT DOCUMENTS AND BE PROVIDED AT MAIN ENTRANCE AND AT THE MAIN FACP.
13. FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE CARBON MONOXIDE DETECTION IN SLEEPING AREAS AND NEAR FOSSIL FUEL BURNING EQUIPMENT.
14. SMOKE DETECTOR FOR MAGNETIC DOOR HOLDER RELEASE SHALL BE LOCATED WITHIN 5'-0" OF THE DOOR IT IS SERVING AND INSTALLED ALONG THE CENTERLINE OF THE DOOR OPENING OR PART OF AREA DETECTION.
15. ALL WIRE RUN UNDERGROUND SHALL BE SUITABLE FOR WET LOCATIONS.

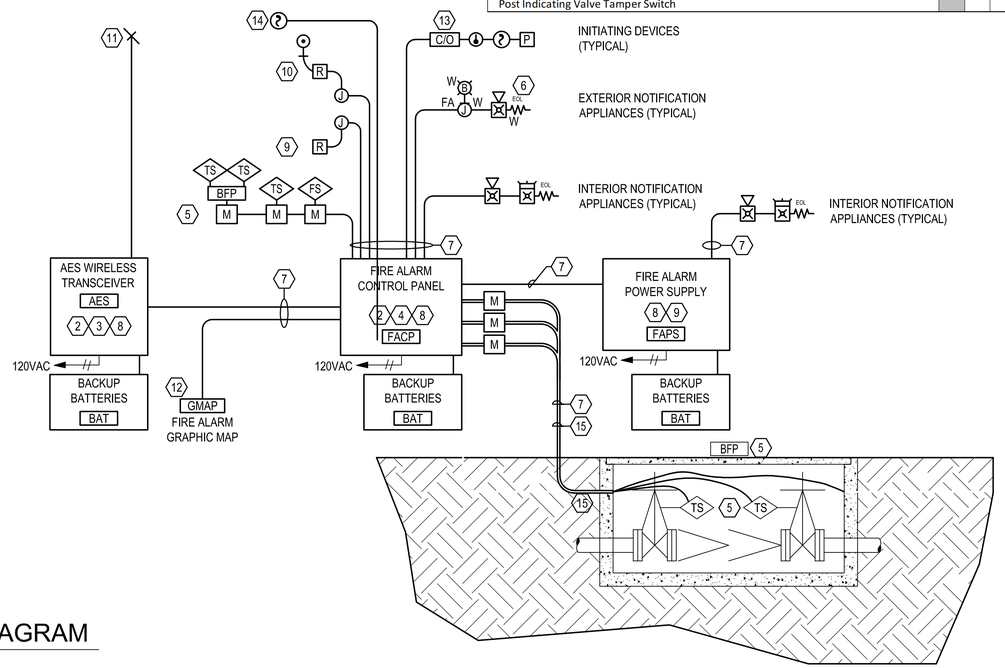
FIRE ALARM SYSTEM SEQUENCE OF OPERATIONS MATRIX

Notes:

1. If "Sequence of Operations" indicated here conflicts with specification, this "Sequence of Operations" supersedes specification sequence.
2. Provide a complete "Sequence of Operations" in accordance with N.F.P.A. #72 and contract documents.
3. This "Sequence of Operations" is considered to be the minimum amount of items required for this project. Provide additional Inputs and/or Outputs as required by the Authority Having Jurisdiction.

System Outputs / **System Inputs**

	Fire Alarm System Control Panel	Annunciate "Alarm Condition" at the Fire Alarm System Control Panel	Annunciate "Alarm Condition" at the Fire Alarm System Remote Annunciator	Transmit "Alarm Signal" to the Central Station Monitoring Company	Annunciate "Trouble Condition" at the Fire Alarm Control Panel	Annunciate "Trouble Condition" at the Fire Alarm Remote Annunciator	Transmit "Trouble Signal" to the Central Station Monitoring Company	Annunciate "Supervisory Condition" at the Fire Alarm Control Panel	Annunciate "Supervisory Condition" at the Fire Alarm Remote Annunciator	Transmit "Supervisory Signal" to the Central Station Monitoring Company	Audible / Visual Notification Appliances	Activate All Fire Alarm System Audible Notification Appliances	Activate All Fire Alarm System Visual Notification Appliances	Immediately Disable All Audio / Visual (A/V), Public Address (P/A), and Intercom Systems	Audible Notification Appliances Operation Maintained until Fire Alarm System Reset	Visual Notification Appliances Operation Maintained until Fire Alarm System Reset	Activation of Carbon Monoxide Detection Sensor shall Initiate a tone Distinctly Different a Fire Alarm tone and Transmit a Unique Signal to the central station monitoring compar	Residential / Living Units	Activate Smoke Detector Sounder Base Alarm in sleeping Unit Room Only	Activate All Smoke Detector Sounder Base Alarms in sleeping Units Only	Activate All Occupant Audible Notification Appliances (except Smoke Detector Sounder E Alarms) in All sleeping Units in the Building	Doors Holders	Release All Doors to be Closed	H.V.A.C. Mechanical Systems	Initiate Global H.V.A.C. Unit Shutdown to the Energy Management Control System (EMC:	Initiate Global Exhaust System Shutdown to the Energy Management Control System (EM	Close all Fire / Smoke Dampers	Immediately Deactivate the High Volume Low Speed (H.V.L.S) Fan	Fire Suppression / Sprinkler Systems	Local Sprinkler System Electric Bell Activation Upon the Flow of Sprinkler System Water	Kitchens	Natural Gas solenoid shutoff for Kitchen Cooking Appliances
Fire Alarm System:																																	
Fire Alarm System Control Panel in Alarm Condition		X	X	X								X	X		X	X						X		X								X
Manual Pull Station		X	X	X								X	X		X	X						X		X								X
Smoke Detector		X	X	X								X	X		X	X						X		X		X		X				X
Two Smoke Detectors Required to be in Alarm (Sleeping Room)		X	X	X								X	X		X	X						X		X		X		X				X
Heat Detector		X	X	X								X	X		X	X						X		X								X
Fire Alarm System Control Panel in Trouble Condition					X	X	X																										
Fire Alarm System Control Panel in Supervisory Condition								X	X	X																							
Carbon Monoxide Sensor in Mechanical Rooms with Fossil Fuel Burning Equipment		X	X	X								X	X		X	X	X														X
Carbon Monoxide Sensor in Kitchens with Fossil Fuel Burning Equipment		X	X	X								X	X		X	X	X														X
Fire Alarm Control Panel Bypass														X																		
Residential / Living Unit Smoke Detectors:																																	
Smoke Detector with Sounder Base (Multiple Rooms in sleeping Unit)		X	X	X																	X								X	X		
Smoke Detector with Sounder Base (Single Room Type Sleeping Unit)								X	X	X										X									X	X		
Smoke Detector / Carbon Monoxide Combination Sensor in Dwelling Unit									X									X											X			X
Tampering of any sleeping Unit Smoke Detector with Sounder Base								X	X	X																							
Smoke Clears Chamber of Detector																																	
Smoke Detectors for Door Hold Opens:																																	
Smoke Detectors to Close Doors		X	X	X								X	X												X		X	X	X				
Smoke Detectors for Fire / Smoke Damper Actuation																																	
Smoke Detectors to Close Fire / Smoke Dampers		X	X	X								X	X		X	X						X		X								
Wet Pipe Automatic Fire Protection Sprinkler Systems:																																	
Water Flow Switch		X	X	X								X	X		X	X						X		X					X		X	
Control Valve Tamper Switch								X	X	X																							
Post Indicating Valve Tamper Switch								X	X	X																							
Dry Pipe Automatic Fire Protection Sprinkler Systems:																																	
Activation of Pressure Switch – Alarm (Loss of Air Pressure)		X	X	X								X	X		X	X						X		X					X		X	
Activation of Pressure Switch – Supervisory Air (Low System Air Pressure)								X	X	X																							
Control Valve Tamper Switch								X	X	X																							
Post Indicating Valve Tamper Switch								X	X	X																							



1 FIRE ALARM SYSTEM RISER DIAGRAM
DIAGRAMMATIC

FIRE ALARM SYSTEM TRANSMITTER ZONE SCHEDULE

ZONE #	DESCRIPTION
1	MANUAL PULL STATION ALARM
2	SMOKE DETECTOR ALARM
3	HEAT DETECTOR ALARM
4	WATER FLOW ALARM
5	TAMPER SWITCH SUPERVISORY SIGNAL
6	CARBON MONOXIDE DETECTOR ALARM
7	SLEEPING UNIT SMOKE DETECTOR SUPERVISORY SIGNAL
8	SLEEPING UNIT SMOKE DETECTOR ALARM SIGNAL
9	FIRE ALARM PANEL TROUBLE SIGNAL
10	FIRE ALARM PANEL SUPERVISORY SIGNAL
11	COMMON TROUBLE
12	SPARE
13	SPARE
14	SPARE
15	SPARE
16	SPARE

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SOUTH KING FIRE & RESCUE FACILITY IMPROVEMENTS

FIRE STATION 65 4966 SOUTH 298th STREET, AUBURN, WA 98001

PROJECT # 2015137

BID SET

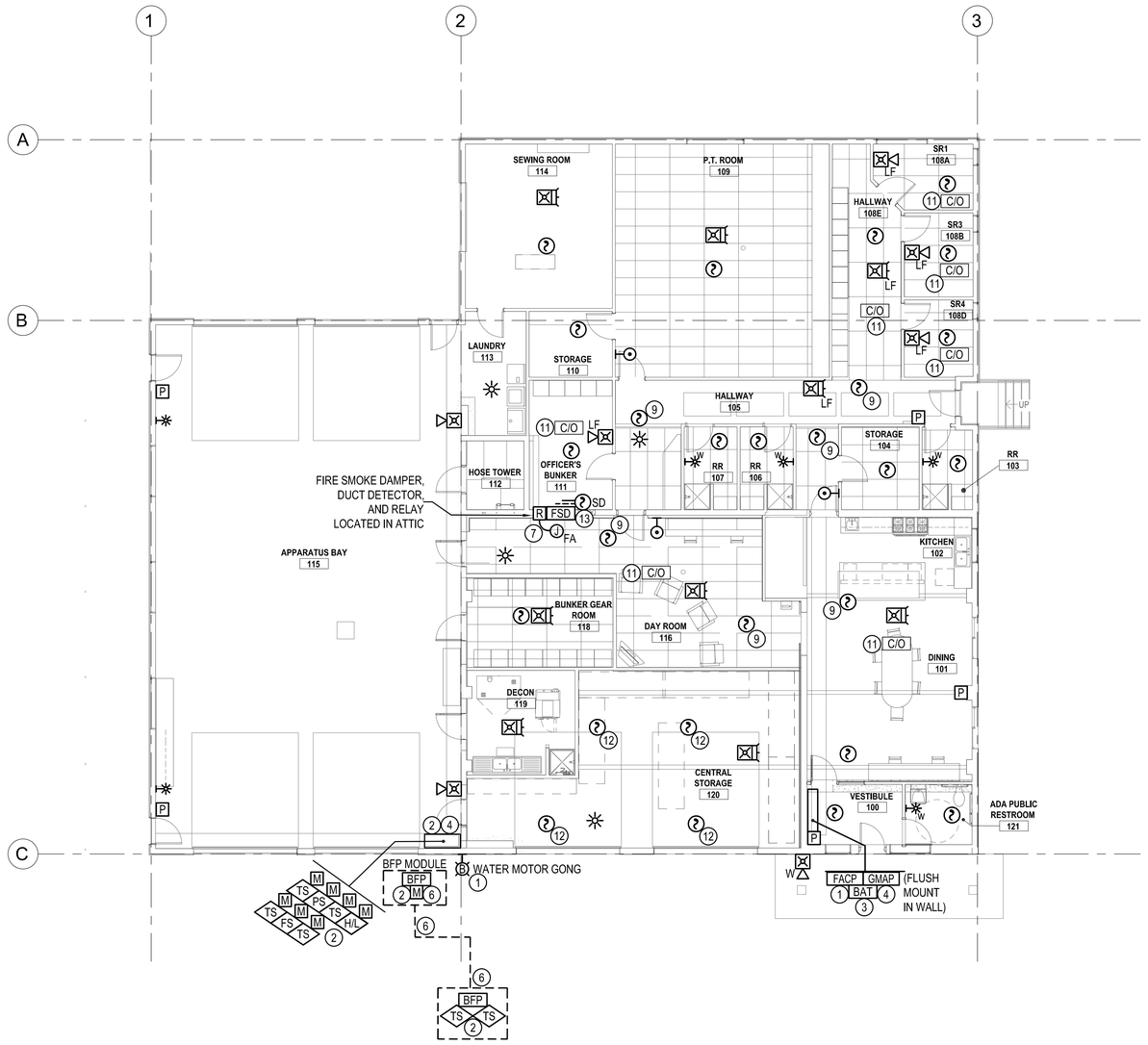
ISSUED: SEPTEMBER 3, 2021

REVISION SCHEDULE

FIRE ALARM RISER DIAGRAM AND SEQUENCE OF OPERATIONS MATRIX

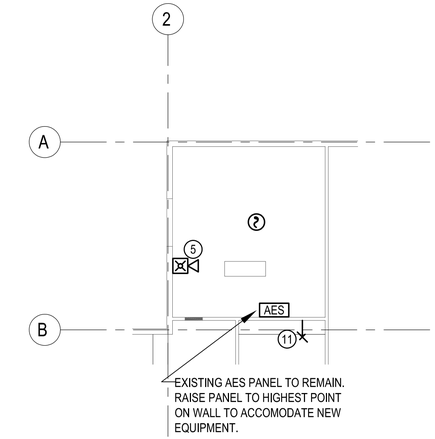
SHEET:

FA0.02



1 FIRE ALARM FIRST FLOOR PLAN

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



2 FIRE ALARM PLATFORM PLAN

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

GENERAL NOTES

1. THE FIRE ALARM SYSTEM CONTRACTOR SHALL COMPLETELY REPLACE ALL FIRE ALARM SYSTEM PANELS, INITIATION DEVICES, NOTIFICATION DEVICES, CONTROL DEVICES, AND WIRING IN ITS ENTIRETY.
2. SEE SHEET FA0.01 FOR FIRE ALARM SYSTEM EQUIPMENT REQUIREMENTS, AUDIBILITY REQUIREMENTS, CABLING AND CONDUIT REQUIREMENTS, FLOOR PLAN GENERAL AND FLOOR PLAN CONSTRUCTION NOTES.
3. WHERE NEW FIRE ALARM SYSTEM DEVICES ARE INSTALLED ON EXISTING WALLS, PROVIDE WIREMOLD 700 OR 2400 SERIES RACEWAY, SIZED AS REQUIRED, ROUTED TO NEAREST ACCESSIBLE CEILING SPACE. **RUN SURFACE RACEWAY AS INCONSPICUOUSLY AS POSSIBLE.** FOLLOW WALL AND CEILING JOINTS TO MAINTAIN A CLEAN VISUAL APPEARANCE. PROVIDE FLEXIBLE ELBOWS WHERE NECESSARY FOR SURFACE RACEWAY CONTAINING DATA CABLES. IN AREAS THAT ARE NOT BEING REPAINTED, PAINT SURFACE RACEWAY TO MATCH ADJACENT SURFACES.
4. CEILING TYPES ARE SHOWN FOR REFERENCE ONLY AND ARE NOT PROVIDED TO INDICATE EXACT LAYOUTS.
5. CEILING MOUNTED DEVICES SHALL BE INSTALLED AT THE QUARTER POINT OR CENTER POINT OF 4'X2' ACOUSTICAL CEILING TILES AND CENTER POINT OF 2'X2' OR 1'X1' ACOUSTICAL CEILING TILES. SHEETS FA3.01 THRU FA3.29 MAY NOT DEPICT THIS INSTALLATION DUE TO REFLECTED CEILING PLAN SHOWN BEING DIAGRAMMATICAL TO INDICATE CEILING TYPES, NOT EXACT ACOUSTICAL TILE LAYOUTS.
6. THE FIRE ALARM SYSTEM CONTRACTOR SHALL COORDINATE THE FIRE ALARM SYSTEM INSTALLATION WITH EXISTING ARCHITECTURAL FEATURES, H.V.A.C. GRILLES, ELECTRICAL LIGHTS, FIRE PROTECTION SPRINKLER HEADS, AND/OR EXISTING CONDITIONS.
7. EXISTING DEVICES SHOWN WITH A DASHED LINE TO BE REMOVED AND ARE SHOWN IN APPROXIMATE LOCATIONS FOR REFERENCE ONLY.
8. AES TO BE COMPLETELY REWIRED. PROVIDE EMT CONDUIT FOR EXISTING EXTERIOR ANTENNA, PROVIDE EMT FOR EXISTING POWER CONNECTION, AND PROVIDE A GROUND CONNECTION WITH NO SMALLER THAN #10 GROUND WIRE TO A COLD WATER PIPE WITHIN 5 FEET OF A COLD WATER PIPE ENTERING THE BUILDING.

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ISSUED: SEPTEMBER 3, 2021

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FIRE ALARM FIRST FLOOR PLAN

SHEET:

FA1.01