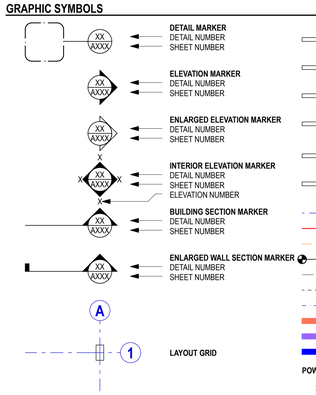
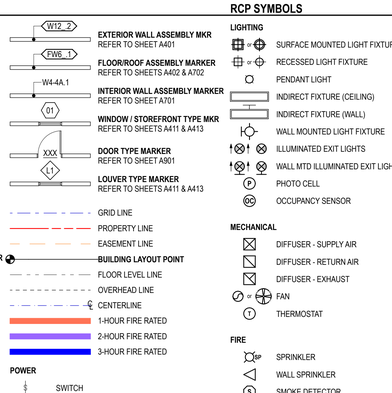
## ABBREVIATIONS

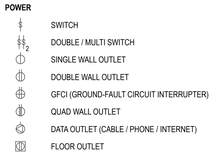
| | |
|---|---|
| @ | AT |
| Ø | DIAMETER / ROUND |
| # | NUMBER |
| **AB** | AIR BARRIER |
| **ABE** | AVERAGE BUILDING ELEVATION |
| **ABV** | ABOVE |
| **ACC** | ACCESSIBLE |
| **ACM** | ALUMINUM COMPOSITE MATERIAL |
| **ACP** | ACOUSTIC CEILING PANEL |
| **ACT** | ACOUSTIC CEILING TILE |
| **ACW** | ALUMINUM-CLAD WOOD |
| **AD** | AREA DRAIN |
| **ADA** | AMERICANS WITH DISABILITIES ACT |
| **ADJ** | ADJUSTABLE / ADJACENT |
| **AFF** | ABOVE FINISH FLOOR |
| **AHJ** | AUTHORITY HAVING JURISDICTION |
| **AHU** | AIR HANDLING UNIT |
| **ALT** | ALTERNATE |
| **ALUM** | ALUMINUM |
| **AP** | ACCESS PANEL |
| **APPD** | APPROVED |
| **APPROX** | APPROXIMATE |
| **ARCH** | ARCHITECTURAL |
| **AVG** | AVERAGE |
| **BD** | BOARD / BED / BEDROOM |
| **BE** | BUILDING ENVELOPE |
| **BEL** | BELOW |
| **BEY** | BEYOND |
| **BLDG** | BUILDING |
| **BLK** | BLOCK, BLOCKING |
| **BO** | BOTTOM OF |
| **BOD** | BASIS OF DESIGN |
| **BOT** | BOTTOM |
| **BR** | BACKER ROD |
| **BRK MTL** | BRAKE METAL |
| **BTW** | BETWEEN |
| **CAB** | CABINET |
| **CSWK** | CASEWORK |
| **CG** | CORNER GUARD |
| **CIP** | CAST-IN-PLACE CONCRETE |
| **CJ** | CONTROL JOINT |
| **CL** | CENTERLINE |
| **CLG** | CEILING |
| **CLKG** | CAULKING |
| **CLO** | CLOSET |
| **CLR** | CLEAR |
| **CMU** | CONCRETE MASONRY UNIT |
| **CNTP** | COUNTER(TOP) |
| **COL** | COLUMN |
| **COMM** | COMMUNICATION |
| **CONC** | CONCRETE |
| **COND** | CONDITION |
| **CONN** | CONNECTION |
| **CONST** | CONSTRUCTION |
| **CONT** | CONTINUOUS |
| **CONTR** | CONTRACTOR |
| **CORR** | CORRIDOR / CORRUGATED / CORRECTION |
| **CPT** | CARPET |
| **CT** | CERAMIC TILE |
| **CTR** | CENTER |
| **CUST** | CUSTOM |
| **D** | DEPTH / DRYER |
| **DEPT** | DEPARTMENT |
| **DET** | DETAIL |
| **DF** | DRINKING FOUNTAIN |
| **DIA** | DIAMETER |
| **DIAG** | DIAGONAL |
| **DIM** | DIMENSION |
| **DIR** | DIRECTION |
| **DIV** | DIVISION |
| **DN** | DOWN |
| **DOM** | DOMESTIC |
| **DR** | DOOR |
| **DS** | DOWNSPOUT (EXTERIOR) |
| **DW** | DISHWASHER |
| **DWG** | DRAWING |
| **(E)** | EXISTING |
| **E** | EAST |
| **EA** | EACH |
| **EJ** | EXPANSION JOINT |
| **EL** | ELEVATION (GRADE) |
| **ELEC** | ELECTRICAL |
| **ELEV** | ELEVATOR |
| **EMER** | EMERGENCY |
| **EMR** | ELEVATOR MACHINE ROOM |
| **ENV** | ENVELOPE / ENVIRONMENT(AL) |
| **EQ** | EQUAL / EQUIVALENT |
| **EQUIP** | EQUIPMENT |
| **EST** | ESTIMATE / ESTIMATED |
| **EXC** | EXCAVATED |
| **EXH** | EXHAUST |
| **EXP** | EXPOSED / EXPANDED |
| **EXT** | EXTERIOR |
| **FAB** | FABRICATED |
| **FACP** | FIRE ALARM CONTROL PANEL |
| **FC** | FIBER CEMENT COMPOSITE |
| **FD** | FLOOR DRAIN |
| **FE** | FIRE EXTINGUISHER |
| **FEC** | FIRE EXTINGUISHER CABINET |
| **FF** | FINISH FLOOR / FACTORY FINISHED |
| **FF&E** | FURNITURE, FIXTURES & EQUIPMENT |
| **FG** | FINISH GRADE |
| **FIN** | FINISH(ED) |
| **FLASH** | FLASHING |
| **FLEX** | FLEXIBLE |
| **FLR** | FLOOR |
| **FOC** | FACE OF CONCRETE |
| **FOF** | FACE OF FINISH |
| **FOIC** | FURNISHED BY OWNER, INSTALLED BY CONTRACTOR |
| **FOIO** | FURNISHED BY OWNER, INSTALLED BY OWNER |
| **FOM** | FACE OF MASONRY |
| **FOS** | FACE OF STUD |
| **FP** | FIREPROOF / FIRE PROTECTION |
| **FPHB** | FROST PROOF HOSE BIB |
| **FRDT** | FIRE RETARDANT |
| **FRM** | FRAMING |
| **FRP** | FIBERGLASS REINFORCED PANEL |
| **FRZR** | FREEZER |
| **FSD** | FIRE SEPARATION DISTANCE |
| **FT** | FOOT OR FEET |
| **FTG** | FOOTING |
| **GA** | GAUGE |
| **GAL** | GALLON |
| **GALV** | GALVANIZED |
| **GEN** | GENERAL |
| **GFI** | GROUND FAULT INTERRUPT |
| **GFRC** | GLASS FIBER REINFORCED CONCRETE |
| **GL** | GLASS |
| **GND** | GROUND |
| **GOVT** | GOVERNMENT |
| **GR** | GRADE |
| **GSM** | GALVANIZED SHEET METAL |
| **GWB** | GYPSUM WALL BOARD |
| **GYP** | GYPSUM |
| **HB** | HOSE BIB |
| **HC** | HANDICAP / HOLLOW CORE |
| **HD** | HEAD / HEAVY DUTY |
| **HDR** | HEADER |
| **HDWD** | HARDWOOD |
| **HDWR** | HARDWARE |
| **HM** | HOLLOW METAL |
| **HOL** | HOLLOW |
| **HORIZ** | HORIZONTAL |
| **HP** | HIGH POINT |
| **HR** | HOUR |
| **HT** | HEIGHT / HIGH-TEMPERATURE |
| **HWH** | HOT WATER HEATER |
| **HWVP** | HARDWOOD VENEER PLYWOOD |
| **IBC** | INTERNATIONAL BUILDING CODE |
| **ID** | INSIDE DIAMETER |
| **IIC** | IMPACT ISOLATION CLASS |
| **IN** | INCHES |
| **INCL** | INCLUDE / INCLUDED / INCLUDING |
| **INS/INSUL** | INSULATION |
| **INT** | INTERIOR |
| **INTM** | INTERMEDIATE |
| **INTUM** | INTUMESCENT |
| **JST** | JOIST |
| **JT** | JOINT |
| **J-BOX** | JUNCTION BOX |
| **L** | LONG / LENGTH |
| **LA** | LANDSCAPE |
| **LAM** | LAMINATE |
| **LAV** | LAVATORY |
| **LB** | POUND |
| **LH** | LEFT HAND |
| **LIN** | LINEAR/LINEAL |
| **LOC** | LOCATION |
| **LP** | LOW POINT |
| **LT** | LIGHT |
| **LTG** | LIGHTING |
| **LVL** | LEVEL |
| **MATL** | MATERIAL |
| **MAX** | MAXIMUM |
| **MC** | MEDICINE CABINET |
| **MDF** | MEDIUM DENSITY FIBERBOARD |
| **MECH** | MECHANICAL |
| **MEMB** | MEMBRANE |
| **MFR** | MANUFACTURER |
| **MI** | MIRROR |
| **MIN** | MINIMUM |
| **MISC** | MISCELLANEOUS |
| **MO** | MASONRY OPENING |
| **MOT** | MOTORIZED |
| **MTD** | MOUNTED |
| **MTL** | METAL |
| **N** | NORTH |
| **N/A** | NOT APPLICABLE |
| **(N)** | NEW |
| **NAT** | NATURAL |
| **NEG** | NEGATIVE |
| **NIC** | NOT IN CONTRACT |
| **NO** | NUMBER |
| **NOM** | NOMINAL |
| **NR** | NOT RATED / UNRATED |
| **NTS** | NOT TO SCALE |
| **OA** | OVERALL |
| **OC** | ON CENTER |
| **OCC** | OCCUPANCY / OCCUPANT |
| **OD** | OUTSIDE DIAMETER |
| **OFD** | OVERFLOW DRAIN |
| **OH** | OVERHEAD |
| **OPNG** | OPENING |
| **OPP** | OPPOSITE |
| **OWSJ** | OPEN-WEB STEEL JOIST |
| **OZ** | OUNCE |
| **(P)** | PROPOSED |
| **PAR** | PARALLEL |
| **PART** | PARTITION |
| **PC** | PRECAST |
| **PERF** | PERFORATED |
| **PERP** | PERPENDICULAR |
| **PKG** | PARKING / PACKAGE |
| **PL** | PLATE / PROPERTY LINE / PLASTIC |
| **PLAM** | PLASTIC LAMINATE |
| **PLY** | PLYWOOD |
| **PNL** | PANEL |
| **POL** | POLISH / POLISHED |
| **PR** | PAIR |
| **PREFAB** | PREFABRICATE(D) |
| **PREFIN** | FACTORY PAINTED |
| **PRELIM** | PRELIMINARY |
| **PROJ** | PROJECT / PROJECTION |
| **PROP** | PROPERTY |
| **PSI** | POUNDS PER SQUARE INCH |
| **PT** | POINT / PRESSURE TREATED / POST-TENSIONED |
| **PTD** | FIELD PAINTED |
| **PTN** | PARTITION |
| **QTR** | QUARTER |
| **QTY** | QUANTITY |
| **QUAL** | QUALITY / QUALIFICATION(S) |
| **R** | RISER / RADIUS / RANGE |
| **RB** | RUBBER BASE |
| **RD** | ROOF DRAIN |
| **REC** | RECEIVER / RECYCLE |
| **REF** | REFERENCE |
| **REFR** | REFRIGERATOR |
| **REINF** | REINFORCED |
| **REQ** | REQUIRED |
| **RESI** | RESIDENTIAL |
| **RET** | RETURN |
| **REV** | REVERSE / REVISED / REVISION |
| **RF** | ROOF |
| **RFG** | ROOFING |
| **RH** | RIGHT HAND |
| **RIGID** | RIGID INSULATION |
| **RM** | ROOM |
| **RND** | ROUND |
| **RO** | ROUGH OPENING |
| **ROW** | RIGHT-OF-WAY |
| **RUB** | RUBBER |
| **RWL** | RAINWATER LEADER (INTERIOR) |
| **S** | SOUTH |
| **SALV** | SALVAGE (D) |
| **SAM** | SELF-ADHERING MEMBRANE |
| **SBC** | IBC w/ SEATTLE AMENDMENTS |
| **SC** | SOLID CORE |
| **SCHED** | SCHEDULE |
| **SCW** | SOLID CORE WOOD |
| **SD** | SMOKE DETECTOR / SOAP DISPENSER |
| **SEC** | SEATTLE ENERGY CODE |
| **SECT** | SECTION |
| **SF** | SQUARE FEET / STOREFRONT |
| **SFRM** | SPRAY-APPLIED FIRE-RESISTIVE MATERIAL |
| **SH** | SHELF |
| **SHT** | SHEET |
| **SHTG** | SHEATHING |
| **SID** | SIDING |
| **SIM** | SIMILAR |
| **SL** | SLOPE |
| **SLNT** | SEALANT |
| **SM** | SHEET METAL |
| **SPEC** | SPECIFICATIONS |
| **SQ** | SQUARE |
| **SS** | STAINLESS STEEL |
| **STC** | SOUND TRANSMISSION CLASS |
| **STD** | STANDARD |
| **STIFF** | STIFFENER |
| **STL** | STEEL |
| **STOR** | STORAGE |
| **STU** | STUDIO |
| **STRUCT** | STRUCTURAL |
| **SUB** | SUBSTITUTE / SUBMITTAL |
| **SUSP** | SUSPENDED |
| **SYM** | SYMMETRICAL SYMBOL |
| **SYS** | SYSTEM |
| **T** | TOP / TREAD / TEMPERED |
| **TB** | TOWEL BAR |
| **TG, T&G** | TONGUE & GROOVE |
| **T-STAT** | THERMOSTAT |
| **TD** | TRENCH DRAIN |
| **TEMP** | TEMPORARY / TEMPERATURE |
| **THK** | THICK(NESS) |
| **THRU** | THROUGH |
| **T.O.** | TOP OF |
| **TOC** | TOP OF CONCRETE / TOP OF CURB |
| **TOP** | TOPPING |
| **TOW** | TOP OF WALL |
| **TPH** | TOILET PAPER HOLDER |
| **TR** | TRASH / TRASH ROOM |
| **TRANSL** | TRANSLUCENT |
| **TRANSP** | TRANSPARENT / TRANSPARENCY |
| **TRTD** | TREATED |
| **T/S** | TOPSIDE |
| **TV** | TELEVISION |
| **TWP** | TRANSLUCENT WALL PANEL |
| **TYP** | TYPICAL |
| **UL** | UNDERWRITERS' LABORATORY |
| **UNFIN** | UNFINISHED |
| **UNO** | UNLESS NOTED OTHERWISE |
| **U/S** | UNDERSIDE |
| **VAP** | VAPOR BARRIER |
| **VAR** | VARIES / VARIABLE |
| **VB** | VINYL BASE |
| **VCT** | VINYL COMPOSITION TILE |
| **VENT** | VENTILATION |
| **VERT** | VERTICAL |
| **VEST** | VESTIBULE |
| **VFY** | VERIFY |
| **VIF** | VERIFY IN FIELD |
| **VG** | VERTICAL GRAIN |
| **VOC** | VOLATILE ORGANIC COMPOUNDS |
| **VOL** | VOLUME |
| **VOLT** | VOLTAGE |
| **VS** | VINYL SHEET / SHEET VINYL |
| **W** | WEST / WIDE / WIDTH / WASHER |
| **W/** | WITH |
| **W/D** | WASHER/DRYER |
| **W/O** | WITHOUT |
| **WAIN** | WAINSCOT |
| **WC** | WATER CLOSET |
| **WD** | WOOD |
| **WIN** | WINDOW |
| **WSEC** | WASHINGTON STATE ENERGY CODE |
| **WH** | WALL HUNG |
| **WRB** | WEATHER RESISTANT BARRIER |
| **WS** | WEATHERSTRIP |
| **WT** | WEIGHT |
| **WWM** | WELDED WIRE MESH |
| **YD** | YARD DRAIN |

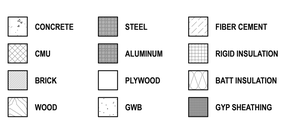
## GRAPHIC SYMBOLS




POWER




## RCP SYMBOLS

LIGHTING




MECHANICAL




FIRE




ELECTRICAL




## PROJECT DATA

**PROJECT LOCATION**
720 S 333rd Street
Federal Way, WA 98003

**KING COUNTY ASSESSOR'S PARCEL NUMBERS**
926500

**LEGAL DESCRIPTIONS**
WEST CAMPUS OFFICE PARK DIVISION 1 LOT 1 OF KING COUNTY SHORT PLAT NUMBER 884049, RECORDING NUMBER 8503121062 SAID SHORT PLAT DEFINED - LOT 17 OF WEST CAMPUS OFFICE PARK DIVISION NUMBER 1

**KING COUNTY ZONING**
OP

**CITY OF FEDERAL WAY PROJECT #**
24-105279

**PROJECT DESCRIPTION**
INTERIOR RENOVATION OF EXISTING BUILDING AT L1 & SMALL PORTION OF L2 FOR THE SOUTH KING FIRE ADMINISTRATIVE OFFICES.

SITE WORK INCLUDING NEW EXTERIOR ENTRY RAMP AND REGRADING FOR ACCESSIBLE PARKING STALLS; NEW SITE SIGNAGE; WATER SERVICE FOR NEW SPRINKLER SYSTEM; SHORE POWER FOR PARKING STALLS; CONDUIT TO SERVE FUTURE EV CHARGING STATIONS.

## GENERAL NOTES

1. ALL WORK SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE 2021 INTERNATIONAL BUILDING CODE (IBC) AND INTERNATIONAL EXISTING BUILDING CODE (IEBC) WITH WASHINGTON STATE AMENDMENTS WAC 51-50 AND RCW 19.27 & 70.92, WASHINGTON STATE ENERGY CODE (WSEC), AND ALL OTHER APPLICABLE CODES
2. CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND VERIFY LOCATION OF WORK WITH THE ARCHITECTS. NO SCALE MEASUREMENTS SHALL BE USED AS DIMENSIONS FOR WORK. LARGER SCALED DETAILS AND DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER. NOTIFY THE ARCHITECT WHENEVER DIMENSION DISCREPANCIES ARISE.
3. CONTRACTOR IS SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITION OF THE JOB SITE, INCLUDING SAFETY, PROTECTION OF THE PROPERTY, AND THE LIKE DURING PERFORMANCE OF THE WORK
4. CONTRACTOR SHALL PROVIDED METHODS, MEANS, AND FACILITIES REQUIRED TO PREVENT CONTAMINATION OF SOIL, WATER OR ATMOSPHERE.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE OWNER'S WORK AND/OR SUPPLIED ITEMS THAT ARE FURNISHED BY OWNER AND INSTALLED BY CONTRACTS OR ARE NOT IN CONTRACT, BUT ARE ATTACHED TO THE CONTRACTOR'S WORK.
6. ALL FURRED WALLS SHALL HAVE VERTICAL AND LATERAL DRAFTSTOPS PER CODE.
7. DRAWINGS ISSUED FOR CONSTRUCTION PRIOR TO FINAL PERMITTING APPROVAL ARE SUBJECT TO REVISIONS. VERIFY CONSTRUCTION DOCUMENTS CONFORM TO PERMIT DRAWINGS BEFORE PROCEEDING WITH WORK. NOTIFY ARCHITECT WHENEVER DISCREPANCIES ARISE.
8. DIMENSIONS ARE TO:
   FACE OF MASONRY (FOM),
   FACE OF CONCRETE (FOC), OR
   FACE OR STUD (FOS)
   UNLESS NOTED OTHERWISE (UNO)
   DIMENSIONS INDICATED AS CLEAR (CLR) OR FINISH (FIN) ARE TO FINISH FACE.

## VICINITY MAP




## DIRECTORY


**OWNER**
South King Fire
31617 1st Ave S
Federal Way, WA 98003
Mitchell Lee
T: 253.839.6234
E: mitchell.lee@southkingfire.org

**ARCHITECT**
Weinstein A+U
Architects + Urban Designers LLC
2200 Western Avenue, Suite 301
Seattle, WA 98121
Lauren Rock
T: 206.443.8606
E: lauren@weinsteinau.com

**CIVIL ENGINEER**
LPD Engineering PLLC
1932 First Avenue, Suite 500
Seattle, WA 98101
Marc Servizi
T: 206.725.1211
E: marcs@lpdengineering.com

**PLUMBING ENGINEER**
The Greenbusch Group, Inc.
1448 Elliott Ave W
Jack Burgess
T: 206.644.1369
E: jackb@greenbusch.com

**MECHANICAL ENGINEER**
The Greenbusch Group, Inc.
1448 Elliott Ave W
Jack Burgess
T: 206.644.1369
E: jackb@greenbusch.com

**ELECTRICAL ENGINEER**
TFWB Engineers
1200 Westlake Ave N
Suite 509
Kevin Wartelle
T: 206.285.7228
E: kevin@tf-wb.com

**ACOUSTIC CONSULTANT**
A3 Acoustics
1909 29th Ave S
Suite A
Mohamed Ait Allaoua
T: 206-551-5280
E: mohamed@a3acoustics.com


## DRAWING INDEX


**GENERAL**
G001 COVER SHEET
G101 BUILDING CODE ANALYSIS
G102 BUILDING CODE DIAGRAMS
G103 BUILDING CODE DIAGRAMS
G401 ACCESSIBILITY CODE DIAGRAMS

**SURVEY**
1 OF 1 BOUNDARY AND TOPOGRAPHIC SURVEY

**CIVIL**
C1.0 COVER
C1.1 TESC AND DEMOLITION PLAN
C1.2 DEMO AND EROSION CONTROL
C1.3 DEMO AND EROSION CONTROL
C1.4 TESC AND DETAILS AND NOTES
C2.1 PAVING AND GRADING PLAN
C2.2 PAVING AND GRADING PLAN
C2.3 PAVING AND GRADING PLAN
C2.4 PAVING AND GRADING DETAILS
C3.0 WATER COVER
C3.1 WATER PLAN
C3.2 WATER DETAILS

**SITE PLAN**
A001 SITE PLAN
A002 ENTRY RAMP
A003 SITE DETAILS

**DEMOLITION**
AD1B1 DEMOLITION PLAN - GARAGE
AD101 DEMOLITION PLAN - LEVEL 1
AD102 DEMOLITION PLAN - LEVEL 2
AD2B1 DEMOLITION RCP - GARAGE
AD201 DEMOLITION RCP - LEVEL 1
AD202 DEMOLITION RCP - LEVEL 2

**FLOOR PLANS**
A1B1 PROPOSED FLOOR PLAN - GARAGE
A101 PROPOSED FLOOR PLAN - LEVEL 1
A102 PROPOSED FLOOR PLAN - LEVEL 2
A103 PROPOSED FLOOR PLAN - ROOF

**FLOOR FINISH PLANS**
A111 PROPOSED FLOOR FINISH PLAN - LEVEL 1
A112 PROPOSED FLOOR FINISH PLAN - LEVEL 2

**RCPs**
A2B1 PROPOSED RCP - GARAGE
A201 PROPOSED RCP - LEVEL 1
A202 PROPOSED RCP - LEVEL 2

**EXTERIOR ELEVATIONS**
A301 EXTERIOR ELEVATIONS - MAIN ENTRY

**BUILDING SECTIONS**
A310 BUILDING SECTIONS - N and S
A311 BUILDING SECTIONS - E and W

**EXTERIOR DETAILS**
A401 EXTERIOR DETAILS

**INTERIOR ELEVATIONS**
A511 INTERIOR ELEVATIONS LVL 1
A512 INTERIOR ELEVATIONS LVL 1
A513 INTERIOR ELEVATIONS LVL 1
A514 INTERIOR ELEVATIONS LVL 2
A515 INTERIOR ELEVATIONS - LVL-1 RESTROOMS
A516 INTERIOR ELEVATIONS - LVL-2 RESTROOMS

**INTERIOR ASSEMBLIES**
A701 INTERIOR VERTICAL ASSEMBLIES
A702 INTERIOR HORIZONTAL ASSEMBLIES

**INTERIOR DETAILS**
A711 STOREFRONT SCHEDULE
A721 INTERIOR DETAILS - FRAMING AND ACT
A722 INTERIOR DETAILS - PARTITIONS & SHAFTS
A723 INTERIOR DETAILS - STOREFRONT & TRIM DETAILS
A724 INTERIOR DETAILS - CEILING DETAILS

**MILLWORK DETAILS**
A801 MILLWORK DETAILS
A802 MILLWORK DETAILS - RECEPTION

**SCHEDULES**
A901 DOOR SCHEDULE
A911 DOOR DETAILS
A921 FINISH SCHEDULE

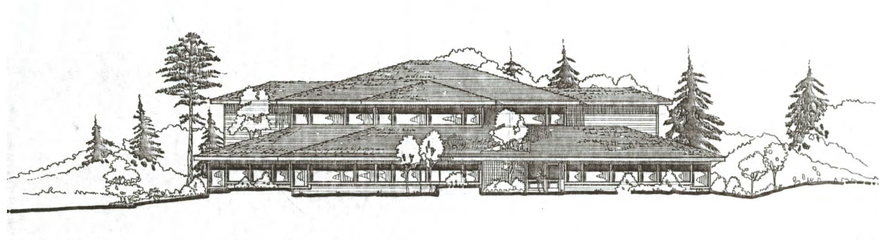
**FIRE PROTECTION**
F001 FIRE PROTECTION NOTES AND LEGEND
F100 GARAGE LEVEL FIRE PROTECTION PLAN
F101 LEVEL 1 FIRE PROTECTION PLAN
F102 LEVEL 2 FIRE PROTECTION PLAN

**PLUMBING**
P001 PLUMBING LEGEND AND NOTES
P002 PLUMBING SCHEDULES
PD100 GARAGE LEVEL PLUMBING DEMOLITION PLAN
PD101 LEVEL 1 PLUMBING DEMOLITION PLAN
PD102 LEVEL 2 PLUMBING DEMOLITION PLAN
P100 GARAGE LEVEL PLUMBING PLAN
P101 LEVEL 1 PLUMBING PLAN
P102 LEVEL 2 PLUMBING PLAN
P401 PLUMBING DETAILS

**MECHANICAL**
M001 MECHANICAL LEGEND AND NOTES
M002 MECHANICAL SCHEDULES
MD100 GARAGE LEVEL HVAC DEMOLITION PLAN
MD101 LEVEL 1 HVAC DEMOLITION PLAN
MD102 LEVEL 2 HVAC DEMOLITION PLAN
M100 GARAGE LEVEL HVAC PLAN
M101 LEVEL 1 HVAC PLAN
M102 LEVEL 2 HVAC PLAN
M201 LEVEL 1 PIPING PLAN
M202 LEVEL 2 PIPING PLAN
M300 MECHANICAL ROOF PLAN
M401 MECHANICAL DETAILS

**ELECTRICAL**
E100 LEGEND
E101 SITE PLAN - ELECTRICAL
ED2B1 DEMOLITION PLAN - GARAGE - ELECTRICAL
ED201 DEMOLITION PLAN - LEVEL 1 - ELECTRICAL
ED202 DEMOLITION PLAN - LEVEL 2 - ELECTRICAL
E2B1 PROPOSED FLOOR PLAN - GARAGE - LIGHTING
E201 PROPOSED FLOOR PLAN - LEVEL 1 - LIGHTING
E202 PROPOSED FLOOR PLAN - LEVEL 2 - LIGHTING
E3B1 PROPOSED FLOOR PLAN - GARAGE - POWER
E301 PROPOSED FLOOR PLAN - LEVEL 1 - POWER
E302 PROPOSED FLOOR PLAN - LEVEL 2 - POWER
E303 ROOF PLAN - ELECTRICAL
E4B1 PROPOSED FLOOR PLAN - GARAGE - COMM. ESS
E401 PROPOSED FLOOR PLAN - LEVEL 1 - COMM. ESS
E402 PROPOSED FLOOR PLAN - LEVEL 2 - COMM. ESS
E500 ONE LINE DIAGRAM
E600 LIGHTING FIXTURE SCHEDULE
E601 LIGHTING CONTROL SCHEDULE
E700 MECHANICAL EQUIPMENT CONNECTION SCHEDULE
E701 PANEL SCHEDULES


## RENDERING



# SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS

BID SET

| Rev | Date | Issue |
|---|---|---|

CONSULTANT'S LOGO

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**
720 S 333rd Street
Federal Way, WA 98003
**24022**
Project #


**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com



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EDWARD WEINSTEIN
State of Washington

**BID SET**
Issue
**07/18/25**
Issue Date
**COVER SHEET**
Sheet Title
**G001**

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206.443.8606

## EXISTING BUILDING CODE ANALYSIS (2021 WASHINGTON STATE EXISTING BUILDING CODE)

| | |
|---|---|
| **OWNER** | SOUTH KING FIRE |
| **SITE LOCATION** | 720 S 333RD ST; FEDERAL WAY, WA 98003 |
| **BUILDING PERMIT NO.** | - |
| **LOT AREA** | 39,995- SQ FT |
| **APPLICABLE CODES** | 2021 WASHINGTON STATE EXISTING BUILDING CODE (WEBC)<br>2021 WASHINGTON STATE BUILDING CODE (WBC)<br>2021 WASHINGTON STATE MECHANICAL CODE (WMC)<br>2021 WASHINGTON STATE ELECTRICAL CODE (NEC)<br>2021 WASHINGTON STATE PLUMBING CODE (WPC)<br>2021 WASHINGTON STATE FIRE CODE (WFC)<br>2021 WASHINGTON STATE ENERGY CODE (WEC) |
| **OCCUPANCY** | B (OFFICE); S-2 (PARKING), SEPARATED |
| **CONSTRUCTION TYPE** | TYPE V-B |
| **FIRE SPRINKLERS** | EXISTING NON-SPRINKLERED BUILDING |

| | |
|---|---|
| **CHAPTER 3** | **PROVISIONS FOR ALL COMPLIANCE METHODS** |
| **301.3** | **ALTERATION, ADDITION OR CHANGE OF OCCUPANCY** |
| | THE ALTERATION, ADDITION OR CHANGE OF OCCUPANCY OF ALL EXISTING BUILDINGS SHALL COMPLY WITH ONE OF THE METHODS LISTED IN SECTION 301.3.1, 301.3.2 OR 301.3.3 AS SELECTED BY THE APPLICANT. SECTIONS 301.3.1 THROUGH 301.3.3 SHALL NOT BE APPLIED IN COMBINATION WITH EACH OTHER. |
| 301.3.1 | PRESCRIPTIVE COMPLIANCE METHOD: ALTERATIONS, ADDITIONS AND CHANGES OF OCCUPANCY COMPLYING WITH CHAPTER 5 OF THIS CODE IN BUILDINGS COMPLYING WITH THE INTERNATIONAL FIRE CODE SHALL BE CONSIDERED IN COMPLIANCE WITH THE PROVISIONS OF THIS CODE. |
| 301.3.2 | WORK AREA COMPLIANCE METHOD: ALTERATIONS, ADDITIONS AND CHANGES OF OCCUPANCY COMPLYING WITH THE APPLICABLE REQUIREMENTS OF CHAPTERS 6 THROUGH 12 OF THIS CODE SHALL BE CONSIDERED IN COMPLIANCE WITH THE PROVISIONS OF THIS CODE. |
| 301.3.3 | PERFORMANCE COMPLIANCE METHOD: ALTERATIONS, ADDITIONS AND CHANGES OF OCCUPANCY COMPLYING WITH CHAPTER 13 OF THIS CODE SHALL BE CONSIDERED IN COMPLIANCE WITH THE PROVISIONS OF THIS CODE. |
| **306** | **ACCESSIBILITY FOR EXISTING BUILDINGS** |
| 306.1 | THE PROVISIONS OF SECTIONS 306.1 THROUGH 306.7.16 APPLY TO MAINTENANCE AND REPAIR, CHANGE OF OCCUPANCY, ADDITIONS AND ALTERATIONS TO EXISTING BUILDINGS, INCLUDING THOSE IDENTIFIED AS HISTORIC BUILDINGS. |
| 306.7 | A FACILITY THAT IS ALTERED SHALL COMPLY WITH THE APPLICABLE PROVISIONS IN CHAPTER 11 OF THE INTERNATIONAL BUILDING CODE;ICC A117.1 AND THE PROVISIONS OF SECTIONS 306.7.1 THROUGH 306.7.16, UNLESS TECHNICALLY INFEASIBLE. WHERE COMPLIANCE WITH THIS SECTION IS TECHNICALLY INFEASIBLE, THE ALTERATION SHALL PROVIDE ACCESS TO THE MAXIMUM EXTENT TECHNICALLY FEASIBLE. |
| 306.7.1 | WHERE AN ALTERATION AFFECTS THE ACCESSIBILITY TO, OR CONTAINS AN AREA OF PRIMARY FUNCTION, THE ROUTE TO THE PRIMARY FUNCTION AREA SHALL BE ACCESSIBLE. TOILET FACILITIES AND DRINKING FOUNTAINS SERVING THE AREA OF PRIMARY FUNCTION, INCLUDING THE ROUTE FROM THE AREA OF PRIMARY FUNCTION TO THESE FACILITIES, SHALL BE ACCESSIBLE. PRIORITY SHALL BE GIVEN TO THE IMPROVEMENTS AFFECTING THE ACCESSIBLE ROUTE TO THE PRIMARY FUNCTION AREA. |
| EXCEPTION | 1. THE CUMULATIVE COSTS OF PROVIDING THE ACCESSIBLE ROUTE OF TRAVEL, TOILET FACILITIES, AND DRINKING FOUNTAINS ARE NOT REQUIRED TO EXCEED 20 PERCENT OF THE COSTS OF THE ALTERATIONS AFFECTING THE AREA OF PRIMARY FUNCTION. |
| 306.7.2 | ACCESSIBLE MEANS OF EGRESS REQUIRED BY IBC CHAPTER 10 ARE NOT REQUIRED TO BE ADDED IN EXISTING FACILITIES |
| 306.7.5 | WHERE AN ALTERATION INCLUDES ALTERATIONS TO AN ENTRANCE THAT IS NOT ACCESSIBLE, AND THE FACILITY HAS AN ACCESSIBLE ENTRANCE, THE ALTERED ENTRANCE IS NOT REQUIRED TO BE ACCESSIBLE UNLESS REQUIRED BY SECTION 306.7.1. SIGNS COMPLYING WITH IBC 1112 SHALL BE PROVIDED. |
| 306.7.11 | WHERE IT IS TECHNICALLY INFEASIBLE TO ALTER EXISTING TOILET ROOMS TO BE ACCESSIBLE, ONE ACCESSIBLE SINGLE-USER TOILET ROOM OR ONE ACCESSIBLE FAMILY OR ASSISTED-USE TOILET ROOM CONSTRUCTED IN ACCORDANCE WITH SECTION 1110.2.1 OF THE INTERNATIONAL BUILDING CODE IS PERMITTED. THIS TOILET ROOM SHALL BE LOCATED ON THE SAME FLOOR AND IN THE SAME AREA AS THE EXISTING TOILET ROOMS. |

| | |
|---|---|
| **CHAPTER 6** | **CLASSIFICATION OF WORK** |
| **602** | **ALTERATION - LEVEL 1** |
| 602.1 | LEVEL 1 ALTERATIONS INCLUDE THE REMOVAL AND REPLACEMENT OR THE COVERING OF EXISTING MATERIALS, ELEMENTS, EQUIPMENT, OR FIXTURES USING NEW MATERIALS, ELEMENTS, EQUIPMENT, OR FIXTURES THAT SERVE THE SAME PURPOSE |
| 602.2 | LEVEL 1 ALTERATIONS SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 7 |
| 603 | **ALTERATION - LEVEL 2** |
| 603.1 | LEVEL 2 ALTERATIONS INCLUDE THE ADDITION OR ELIMINATION OF ANY DOOR OR WINDOW, THE RECONFIGURATION OR EXTENSION OF ANY SYSTEM, OR THE INSTALLATION OF ANY ADDITIONAL EQUIPMENT, AND SHALL APPLY WHERE THE WORK IS BELOW THE THRESHOLD OF A LEVEL 3 ALTERATION. |
| 603.1 | LEVEL 2 ALTERATIONS SHALL COMPLY WITH THE PROVISIONS OF CHAPTERS 7 FOR LEVEL 1 ALTERATIONS, AS WELL AS THE PROVISIONS OF CHAPTER 8 |
| **604** | **ALTERATION - LEVEL 3** |
| 604.1 | LEVEL 3 ALTERATIONS APPLY WHERE ONE OF THE CRITERIA IS EXCEEDED: THE WORK MEETS OR EXCEEDS THE THRESHOLD OF EITHER SUBSTANTIAL IMPROVEMENT OR SUBSTANTIAL DAMAGE; OR THE ALTERATION AREA EXCEEDS 50 PERCENT OF THE BUILDING AREA |
| 604.2 | LEVEL 3 ALTERATIONS SHALL COMPLY WITH THE PROVISIONS OF CHAPTERS 7 AND 8 FOR LEVEL 1 AND 2 ALTERATIONS, RESPECTIVELY, AS WELL AS THE PROVISIONS OF CHAPTER 9 |

| | |
|---|---|
| **CHAPTER 8** | **ALTERATIONS - LEVEL 2** |
| **801** | **GENERAL** |
| 801.4 | NEW CONSTRUCTION ELEMENTS, COMPONENTS, SYSTEMS, AND SPACES SHALL COMPLY WITH THE REQUIREMENTS OF THE IBC |
| EXCEPTION 2 | THE LENGTH OF DEAD-END CORRIDORS IN NEWLY CONSTRUCTED SPACES SHALL ONLY BE REQUIRED TO COMPLY WITH THE PROVISIONS OF SECTION 805.6 |
| EXCEPTION 3 | THE MINIMUM CEILING HEIGHT OF THE NEWLY CREATED HABITABLE AND OCCUPABLE SPACES AND CORRIDORS SHALL BE 7'-0" |
| **802** | **BUILDING ELEMENTS AND MATERIALS** |
| 802.2 | EXISTING VERTICAL OPENINGS SHALL COMPLY WITH THE PROVISIONS OF SECTIONS 802.2.1, 802.2.2 AND 802.2.3 |
| 802.2.1 | EXISTING INTERIOR VERTICAL OPENINGS CONNECTING TWO OR MORE FLOORS SHALL BE ENCLOSED WITH APPROVED ASSEMBLIES HAVING A FIRE RESISTANCE RATING OF NOT LESS THAN 1 HOUR WITH APPROVED OPENING PROTECTIVES |
| EXCEPTION 5 | IN GROUP B OCCUPANCIES, A MINIMUM 30-MINUTE ENCLOSURE SHALL BE PROVIDED TO PROTECT ALL VERTICAL OPENINGS NOT EXCEEDING THREE STORIES. |
| 802.2.2 | WHERE THE WORK AREA ON ANY FLOOR EXCEEDS 50 PERCENT OF THAT FLOOR AREA, THE ENCLOSURE REQUIREMENTS OF SECTION 802.2 SHALL APPLY TO VERTICAL OPENINGS OTHER THAN STAIRWAYS THROUGHOUT THE FLOOR. |
| 802.2.3 | WHERE THE WORK AREA ON ANY FLOOR EXCEEDS 50 PERCENT OF THAT FLOOR AREA, STAIRWAYS THAT ARE PART OF THE MEANS OF EGRESS SERVING THE WORK AREA SHALL, AT A MINIMUM, BE ENCLOSED WITH SMOKE-TIGHT CONSTRUCTION ON THE HIGHEST WORK AREA FLOOR AND ALL FLOORS BELOW. |
| 802.4 | THE INTERIOR FINISH AND TRIM OF WALLS AND CEILINGS IN EXITS AND CORRIDORS IN ANY WORK AREA SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE. |
| 802.4.1 | WHERE THE WORK AREA ON ANY FLOOR EXCEEDS 50 PERCENT OF THE FLOOR AREA, SECTION 802.4 SHALL APPLY TO THE INTERIOR FINISH AND TRIM IN EXITS AND CORRIDORS SERVING THE WORK AREA THROUGHOUT THE FLOOR. |
| 802.5.1 | EVERY PORTION OF A FLOOR, SUCH AS A BALCONY OR A LOADING DOCK, THAT IS MORE THAN 30 INCHES ABOVE THE FLOOR OR GRADE BELOW AND IS NOT PROVIDED WITH GUARDS, OR THOSE IN WHICH THE EXISTING GUARDS ARE JUDGED TO BE IN DANGER OF COLLAPSING SHALL BE PROVIDED WITH GUARDS. |
| 802.5.2 | WHERE THERE ARE NO GUARDS OR WHERE THE EXISTING GUARDS MUST BE REPLACED, THE GUARDS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE IBC |
| **803** | **FIRE PROTECTION** |
| 803.1 | THE REQUIREMENTS OF THIS SECTION SHALL BE LIMITED TO WORK AREAS IN WHICH LEVEL-2 ALTERATIONS ARE BEING PERFORMED, AND WHERE SPECIFIED THEY SHALL APPLY THROUGHOUT THE FLOOR ON WHICH WORK AREAS ARE LOCATED OR OTHERWISE BEYOND THE WORK AREA |
| **803.2** | **AUTOMATIC SPRINKLER SYSTEMS** - AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED IN A WORK AREA WHERE REQUIRED BY SECTION 803.2.1 THROUGH 803.2.4. INSTALLATION REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE IBC |
| 803.2.2 | IN BUILDINGS WITH OCCUPANCY GROUP B, WORK AREAS THAT HAVE EXITS OR CORRIDORS SHARED BY MORE THAN ONE TENANT OR THAT HAVE EXITS OR CORRIDORS SERVING AN OCCUPANT LOAD GREATER THAN 30 SHALL BE PROVIDED WITH AUTOMATIC SPRINKLER PROTECTION WHERE BOTH OF THE FOLLOWING CONDITIONS OCCUR:<br>1. THE WORK AREA IS REQUIRED TO BE PROVIDED WITH AUTOMATIC SPRINKLER PROTECTION IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE AS APPLICABLE TO NEW CONSTRUCTION.<br>2. THE WORK AREA EXCEEDS 50 PERCENT OF THE FLOOR AREA. |
| | **AUTOMATIC SPRINKLER SYSTEM NOT REQUIRED AS WORK AREA IS LESS THAN 50% OF FLOOR AREA** |
| 803.4 | AN APPROVED FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH SECTIONS 803.4.1 THROUGH 803.4.3 |
| **804** | **MEANS OF EGRESS** |
| 804.2 | THE MEANS OF EGRESS SHALL COMPLY WITH THE REQUIREMENTS OF THIS SECTION |
| EXCEPTION 2 | MEANS OF EGRESS COMPLYING WITH THE REQUIREMENTS OF THE BUILDING CODE UNDER WHICH THE BUILDING WAS CONSTRUCTED SHALL BE CONSIDERED TO BE COMPLIANT MEANS OF EGRESS IF, IN THE OPINION OF THE CODE OFFICIAL, THEY DO NOT CONSTITUTE A DISTINCT HAZARD TO LIFE |
| 804.3.1 | EVERY STORY UTILIZED FOR HUMAN OCCUPANCY ON WHICH THERE IS A WORK AREA THAT INCLUDES EXITS OR CORRIDORS SHARED BY MORE THAN ONE TENANT WITH THE WORK AREA SHALL BE PROVIDED WITH THE MINIMUM NUMBER OF EXITS BASED ON THE OCCUPANCY AND THE OCCUPANT LOAD IN ACCORDANCE WITH THE IBC. IN ADDITION, THE EXITS SHALL COMPLY WITH SECTIONS 805.3.1.1 AND 805.3.1.2 |
| 804.5 | EGRESS DOORWAYS IN ANY WORK AREA SHALL COMPLY WITH SECTIONS 805.4.1 THROUGH 805.4.5 |
| 804.5.1 | WORK AREAS SHALL BE PROVIDED WITH TWO EGRESS DOORWAYS IN ACCORDANCE WITH 805.4.1.1 AND 805.4.1.2 |
| 804.5.1.1 | IN ANY WORK AREA, ALL ROOMS AND SPACES HAVING AN OCCUPANT LOAD GREATER THAN 50 OR IN WHICH THE TRAVEL DISTANCE TO AN EXIT EXCEEDS 75FT SHALL NOT HAVE FEWER THAN TWO EGRESS DOORWAYS |
| EXCEPTION 1 | STORAGE ROOMS HAVING A MAXIMUM OCCUPANT LOAD OF 10 |
| EXCEPTION 2 | WHERE THE WORK AREA IS SERVED BY A SINGLE EXIT IN ACCORDANCE WITH SECTION 805.3.1.1 |
| 804.5.2 | IN THE WORK AREA AND IN THE EGRESS PATH FROM ANY WORK AREA TO THE EXIT DISCHARGE, ALL EGRESS DOORS SERVING AN OCCUPANT LOAD GREATER THAN 50 SHALL SWING IN THE DIRECTION OF EXIT TRAVEL |
| 804.5.3 | IN ANY WORK AREA, ALL DOORS OPENING ONTO AN EXIT PASSAGEWAY AT GRADE OR AN EXIT STAIRWAY SHALL BE SELF-CLOSING OR AUTOMATIC-CLOSING BY LISTED CLOSING DEVICES |
| 805.5.4 | IN ANY WORK AREA, AND IN THE EGRESS PATH FROM ANY WORK AREA TO THE EXIT DISCHARGE, IN BUILDINGS OR PORTIONS THEREOF OF GROUP A ASSEMBLY OCCUPANCIES WITH AN OCCUPANT LOAD GREATER THAN 100, ALL REQUIRED EXIT DOORS EQUIPPED WITH LATCHING DEVICES SHALL BE EQUIPPED WITH APPROVED PANIC HARDWARE |

## BUILDING CODE ANALYSIS (2021 WASHINGTON STATE BUILDING CODE)

**503 GENERAL HEIGHTS AND AREA LIMITATIONS**

**504 ALLOWABLE BUILDING HEIGHTS AND NUMBERS OF STORIES ABOVE GRADE PLANE FOR NON-SPRINKLERED BLDG**

TABLES 504.3, 504.4 — SEE SHEET G103

| CONSTR TYPE / OCCUPANCY | A-2 | B | S-2 |
|---|---|---|---|
| TYPE V-B | | | |
| ALLOWABLE HEIGHT (FT) | 40 | 40 | 40 |
| ALLOWABLE STORIES | 1 | 3 | 2 |

**506 BUILDING AREA MODIFICATION**

TABLE 506.2 — ALLOWABLE FLOOR AND BUILDING AREA (SF) BASED ON OCCUPANCY & CONSTRUCTION TYPE

ALLOWABLE FLOOR AREA FACTOR (Aₜ) IN SQ FT

| CONSTR TYPE / OCCUPANCY | | A-2 | B | S-2 |
|---|---|---|---|---|
| TYPE V-B | NS | 6,000 | 9,000 | 13,500 |

506.3 — FRONTAGE INCREASE (NS x I$_f$)

| CONSTR TYPE / OCCUPANCY | A-2 | B | S-2 | |
|---|---|---|---|---|
| AREA FACTOR INCREASE (I$_f$) | 0.75 | 0.75 | 0.75 | |
| F = BUILDING FRONTAGE WITH ≥20-FT DISTANCE | | | | 381.56 |
| P = BUILDING PERIMETER | | | | 498.34 |
| PERCENTAGE OF BUILDING PERIMETER | | | | 77% |
| W = WIDTH OF PUBLIC WAY OR OPEN SPACE (MAX 30-FT) | | | | 30.00 |
| FRONTAGE INCREASE FACTOR PER TABLE 506.3.3 | | | | 0.75 |
| TYPE V-A, NS VALUE | 8,625 | 13,500 | 15,750 | |
| TYPE V-B, NS VALUE | 4,500 | 6,750 | 10,125 | |

506.2.4 — ALLOWABLE FLOOR AREA FOR MIXED-OCCUPANCY MULTISTORY BUILDINGS (SQ FT)

| CONSTR TYPE / OCCUPANCY | A-2 | B | S-2 |
|---|---|---|---|
| TYPE V-B | 10,500 | 15,750 | 23,625 |

508.2 ACCESSORY OCCUPANCIES

ACCESSORY OCCUPANCIES ARE THOSE ANCILLARY TO THE PRIMARY OCCUPANCY OF THE BUILDING OR PORTION THEREOF. SHALL COMPLY WITH 508.2.1 THRU 508.2.4

508.2.1 OCCUPANCY CLASSIFICATION: INDIVIDUALLY CLASSIFIED PER 302.1, AND SHALL COMPLY WITH THE CLASSIFICATION REQUIREMENTS OF THAT SPACE.

508.2.2 ALLOWABLE BUILDING HEIGHT: BASED ON SECTION 504 FOR THE MAIN OCCUPANCY OF THE BUILDING

508.2.3 AREA LIMITATIONS ACCESSORY OCCUPANCIES: AGGREGATE AREA LIMITED TO 10% OF BUILDING AREA OF STORY IN WHICH LOCATED AND SHALL NOT EXCEED PROVISIONS OF SECTION 506 FOR THE MAIN OCCUPANCY OF THE BUILDING

508.2.4 SEPARATION OF ACCESSORY OCCUPANCIES: NONE REQUIRED BETWEEN ACCESSORY OCCUPANCY AND MAIN OCCUPANCY.

**508.4 REQUIRED SEPARATION OF OCCUPANCIES (HOURS)**

TABLE 508.4 — SEE SHEET G103

| OCCUPANCY | A | B | R | S-1 | S-2[3] |
|---|---|---|---|---|---|
| A | N | 2 | 2 | 2 | 1 |
| B | | N | 2 | N | 2 |
| R | | | N | 2 | 2 |
| S-1 | | | | N | 2 |
| S-2[3] | | | | | N |

NOTE: TABLE ABOVE IS FOR NON-SPRINKLERED BUILDINGS

EXCEPTION B: REQUIRED SEPARATION FROM AREAS USED ONLY FOR PRIVATE OR PLEASURE VEHICLES SHALL BE REDUCED BY 1 HOUR BUT NOT LESS THAN 1 HOUR

508.4.1 SEPARATED OCCUPANCIES SHALL BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH SECTION 302.1.

508.4.2 IN EACH STORY, THE BUILDING AREA SHALL BE SUCH THAT THE SUM OF THE RATIOS OF THE ACTUAL BUILDING AREA OF EACH SEPARATED OCCUPANCY DIVIDED BY THE ALLOWABLE BUILDING AREA OF EACH SEPARATED OCCUPANCY SHALL NOT EXCEED 1.

506.2.4 ALLOWABLE BUILDING AREA, MIXED-OCCUPANCY MULTISTORY BUILDINGS

| CONSTR TYPE | LEVEL | OCC GRP | ALLOWED | PROVIDED | RATIO | TOTAL | COMPLIES |
|---|---|---|---|---|---|---|---|
| TYPE V-B | LEVEL 2 | B | 15,750 | 15,201 | 0.97 | 0.97 | YES |
| | LEVEL 1 | B | 15,750 | 13,183 | 0.84 | 0.84 | YES |
| | P1 | S-2 | 23,625 | 12,857 | 0.54 | 0.54 | YES |

**CHAPTER 10 MEANS OF EGRESS**

**1003 GENERAL MEANS OF EGRESS**

**TABLE 1004.5 OCCUPANT LOADS**

SEE SHEETS G102 AND G103

| LEVEL | USE | AREA | AREA/OCC | OCC LOAD | TOTAL |
|---|---|---|---|---|---|
| LEVEL 2 | BUSINESS AREAS | 7,206 | 150 | 49 | 49 |
| LEVEL 1 | BUSINESS AREAS | 13,056 | 150 | 88 | 88 |
| LEVEL P1 | PARKING | 13,023 | 200 | 66 | 66 |

1010.1.1 MINIMUM CLEAR OPENING WIDTH AT DOORS TO BE 32-INCHES

1011.2 MINIMUM STAIR WIDTH NOT LESS THAN 44-INCHES

TABLE 1020.2 MINIMUM CORRIDOR WIDTH

**TABLE 1005 EXIT WIDTHS PROVIDED (SPRINKLERED)**

SEE SHEETS G201 AND G202

| LEVEL | USE | REQUIRED EXITS | CALC STAIR | MIN. STAIR | CALC DOOR | MIN. DOOR | CALC CORR | MIN. CORR |
|---|---|---|---|---|---|---|---|---|
| LEVEL 2 | BUSINESS AREA | 2 | 4.90'' | 44'' | 4'' | 32'' | 7'' | 44'' |
| LEVEL 1 | BUSINESS AREA | 2 | 17.60'' | 44'' | 7'' | 32'' | 13'' | 44'' |
| LEVEL P1 | PARKING | 2 | 6.60'' | 44'' | 5'' | 32'' | 10'' | 44'' |

**1106 ACCESSIBLE PARKING SPACES**

SEE SHEET A1B1

| | |
|---|---|
| TOTAL PARKING SPACES PROVIDED IN GARAGE | 22 |
| TABLE 1106.1 REQUIRED ACCESSIBLE PARKING SPACES IN GARAGE | 1 |
| **TOTAL ACCESSIBLE STALLS PROVIDED IN GARAGE** | **2** |

**CHAPTER 29 PLUMBING FIXTURE COUNT**

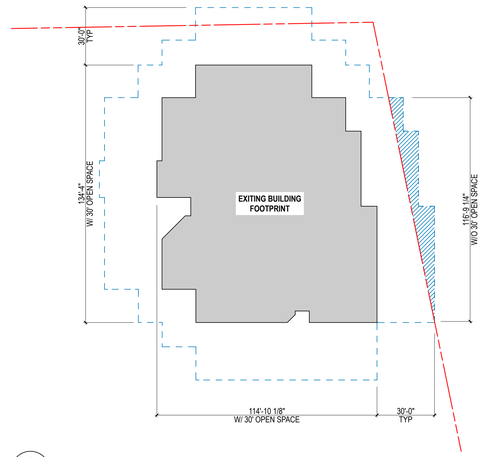
**2902 PLUMBING FACILITIES**

SEE SHEET A101

TABLE 2902.1

| USE | OCC | OCC | WATER CLOSETS | LAVATORIES | DF |
|---|---|---|---|---|---|
| OFFICE | B | 137 | 0.55<br>OCC / 125 | 1.05<br>OCC / 65 | 0.69<br>OCC / 200 |
| STORAGE | B | 0 | 0.00<br>OCC / 125 | 0.00<br>OCC / 65 | 0.00<br>OCC / 200 |
| PARKING | S-2 | 66 | 0.26<br>OCC / 125 | 0.51<br>OCC / 65 | 0.33<br>OCC / 200 |
| TOTAL REQUIRED | | 203 | 0.81 | 1.56 | 1.02 |
| **TOTAL PROVIDED** | | | | | **2** |

2902.5.1 DRINKING FOUNTAINS REQUIRED WHEN OCCUPANT LOADS EXCEED 30 UP TO 150 OCCUPANTS WITH AN ADDITIONAL FOUNTAIN PER 500 ADDITIONAL OCCUPANTS




1 G101 **FRONTAGE DIAGRAM**

SCALE: 1/32" = 1'-0"

**GENERAL NOTES: BUILDING CODE**

**FIRE SEPARATION RATINGS:**

1-HOUR
2-HOUR
3-HOUR

SPACE FUNCTION — OCCUPANCY GROUP

Function (X)

0 SF / 1 / 0 OCC

AREA — OCCUPANT LOAD FACTOR — OCCUPANT LOAD

**OCCUPANT LOAD**

ASSEMBLY
BUSINESS
PARKING GARAGE

**EGRESS:**

EGRESS DOOR & DIRECTION
13
OCCUPANT LOAD SERVED
Travel Distance= 12'

**SCOPE OF WORK:**

EXTENTS OF WORK
AREA OUTSIDE OF SCOPE OF WORK

| Rev | Date | Issue |
|---|---|---|

CONSULTANT'S LOGO

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #

**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com

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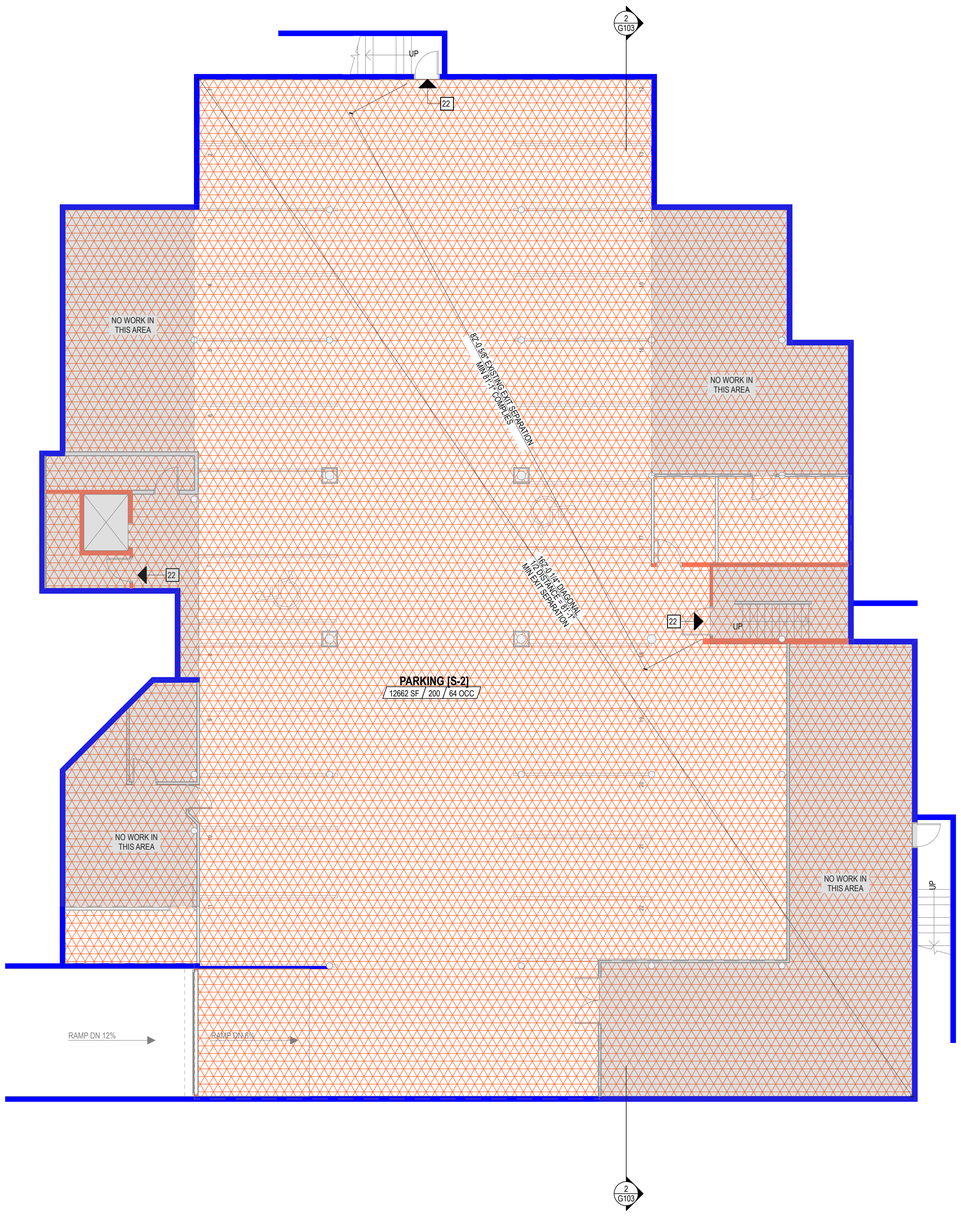
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**BUILDING CODE ANALYSIS**
Sheet Title

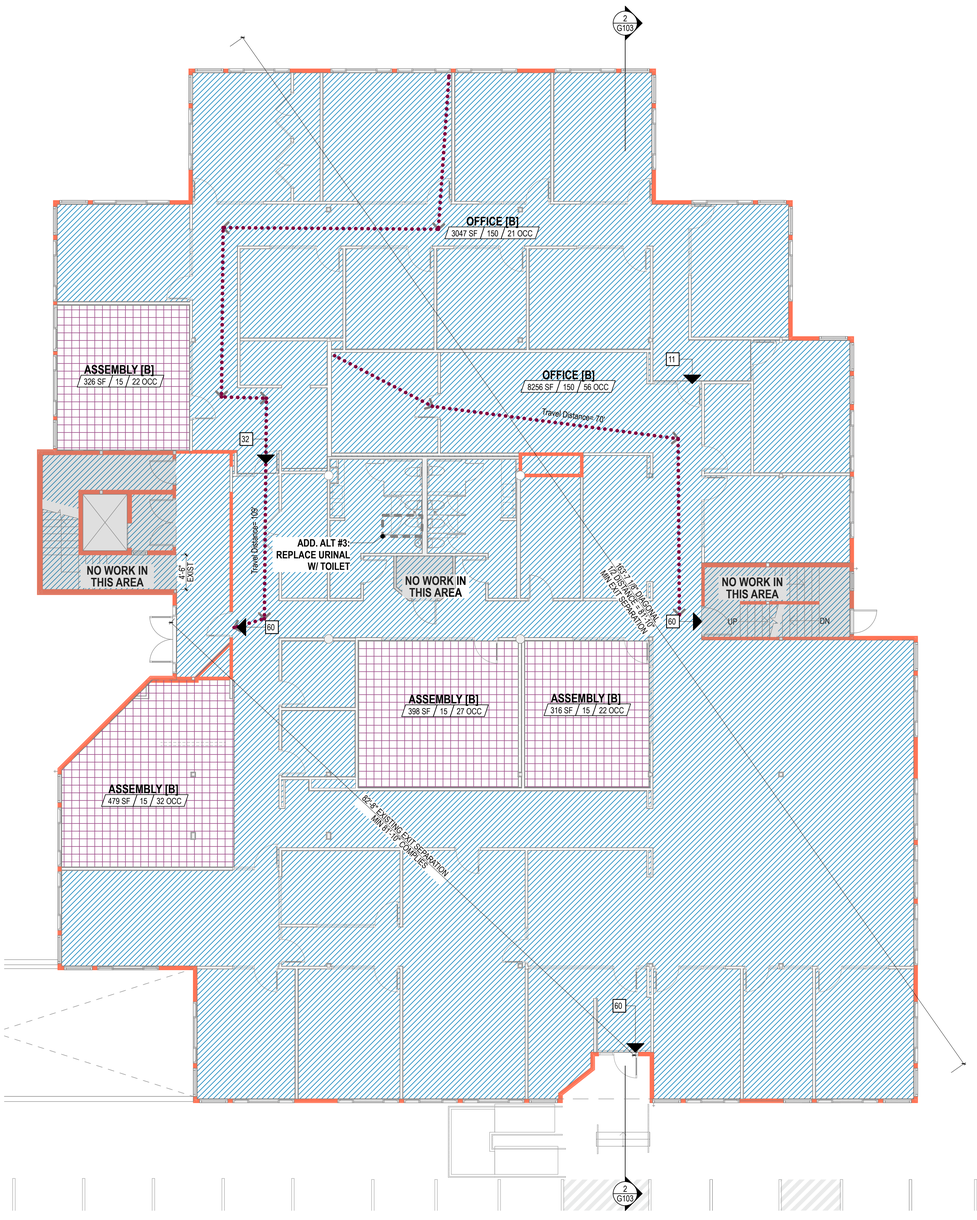
**G101**

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1 G102 **G201 BUILDING CODE DIAGRAM - BASEMENT**

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




2 G102 **G201 BUILDING CODE DIAGRAM - LEVEL 1**

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

**GENERAL NOTES: BUILDING CODE**

**FIRE SEPARATION RATINGS:**

1-HOUR

2-HOUR

3-HOUR

SPACE FUNCTION — OCCUPANCY GROUP

Function (X)

0 SF / 1 / 0 OCC

AREA — OCCUPANT LOAD FACTOR — OCCUPANT LOAD

**OCCUPANT LOAD**

ASSEMBLY

BUSINESS

PARKING GARAGE

**EGRESS:**

EGRESS DOOR & DIRECTION

13 — OCCUPANT LOAD SERVED

Travel Distance= 12'

**SCOPE OF WORK:**

EXTENTS OF WORK

AREA OUTSIDE OF SCOPE OF WORK

| Rev | Date | Issue |
|---|---|---|

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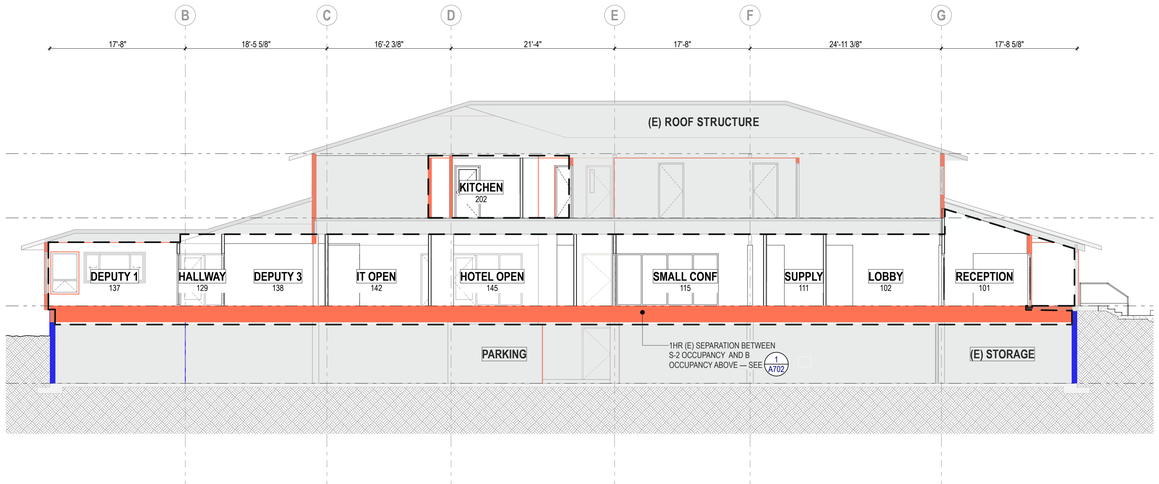
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Issue Date

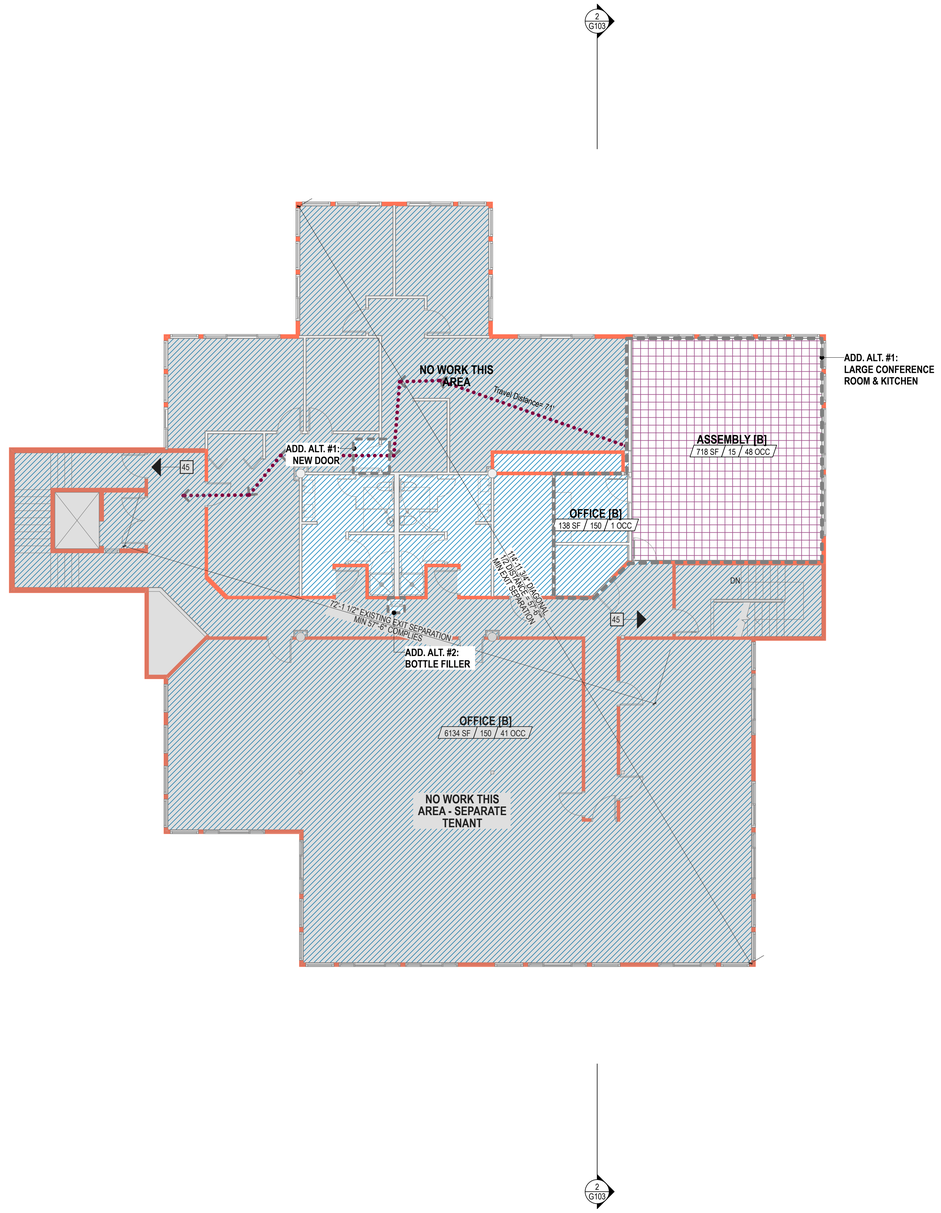
**BUILDING CODE DIAGRAMS**
Sheet Title

**G102**

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2 G103 **BUILDING CODE SECTION**
SCALE: 1/8" = 1'-0"




1 G103 **G201 BUILDING CODE DIAGRAM - LEVEL 2**
SCALE: 1/8" = 1'-0"

**GENERAL NOTES: BUILDING CODE**

**FIRE SEPARATION RATINGS:**

1-HOUR
2-HOUR
3-HOUR

SPACE FUNCTION — OCCUPANCY GROUP
Function (X)
0 SF / 1 / 0 OCC
AREA — OCCUPANT LOAD FACTOR — OCCUPANT LOAD

**OCCUPANT LOAD**

ASSEMBLY
BUSINESS
PARKING GARAGE

**EGRESS:**

EGRESS DOOR & DIRECTION
13
OCCUPANT LOAD SERVED
Travel Distance= 12'

**SCOPE OF WORK:**

EXTENTS OF WORK
AREA OUTSIDE OF SCOPE OF WORK

| Rev | Date | Issue |
|---|---|---|

CONSULTANT'S LOGO

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**24022**
Project #

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2200 Western Avenue, Suite 301
Seattle, WA 98121
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Issue

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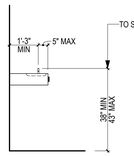
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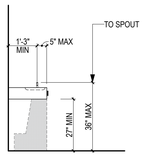
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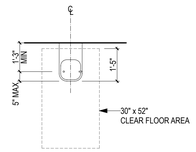
## COMMON AREAS

**STANDING HEIGHT**




**WHEELCHAIR HEIGHT**



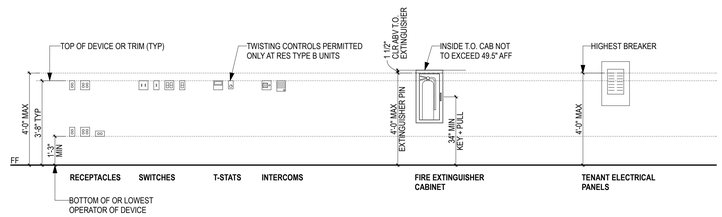




NOTE: WHERE DRINKING FOUNTAINS OCCUR, BOTH STANDING- AND WHEELCHAIR-HEIGHT FOUNTAINS MUST BE PROVIDED, EITHER AS SEPARATE FIXTURES OR COMBINED.

**DRINKING FOUNTAINS**

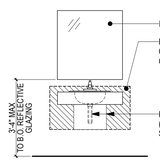
## TYPICAL MOUNTING HEIGHTS

NOTES:
1. HEIGHTS NOTED IN THESE DIAGRAMS ARE INTENDED TO COMPLY WITH ACCESSIBILITY REQUIREMENTS AND MAINTAIN CONSISTENT TOP OR BOTTOM ALIGNMENT OF DEVICES THROUGHOUT SPACE.
2. VERIFY LOCATION OF OPERABLE PORTIONS ON FIXTURES AND DEVICES

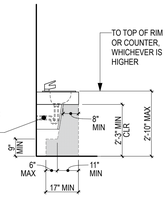



**WALL MOUNTED FIXTURES + CONTROLS**

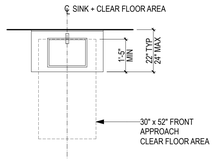
**FRONT VIEW**



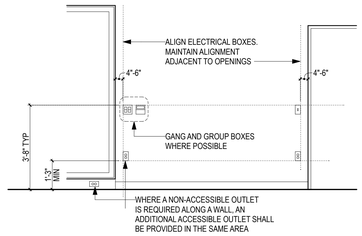

**SIDE VIEW**



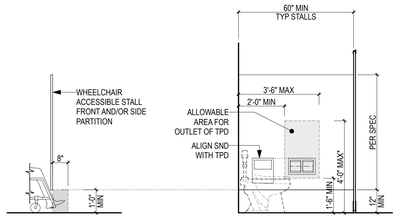

**PLAN**




**LAVATORIES**



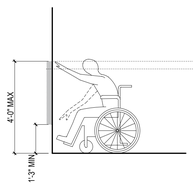

**ADDITIONAL CONTROLS + ALIGNMENTS**



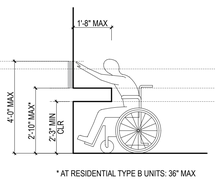

**TOILET STALL PARTITIONS**

## REACH RANGES

**UNOBSTRUCTED**

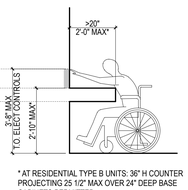



**OBSTRUCTED**




* AT RESIDENTIAL TYPE B UNITS: 36" MAX

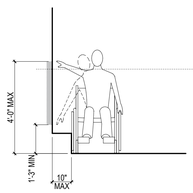
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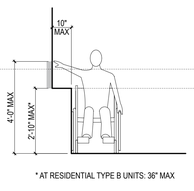

* AT RESIDENTIAL TYPE B UNITS: 36" H COUNTER PROJECTING 25 1/2" MAX OVER 24" DEEP BASE CABINETS PERMITTED

**FORWARD REACH RANGE**

**UNOBSTRUCTED**

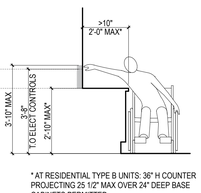



**UNOBSTRUCTED**




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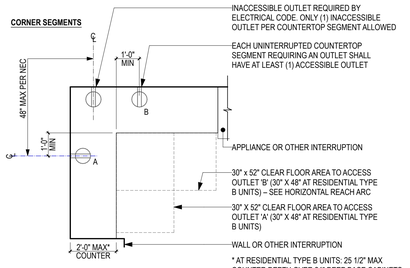
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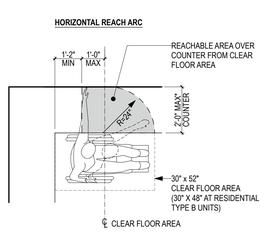

* AT RESIDENTIAL TYPE B UNITS: 36" H COUNTER PROJECTING 25 1/2" MAX OVER 24" DEEP BASE CABINETS PERMITTED

**SIDE REACH RANGE**

**CORNER SEGMENTS**




**HORIZONTAL REACH ARC**




**ELECTRICAL CONTROLS OVER COUNTERS**

## ACCESSIBILITY CODE NOTES:

1. APPLICABLE CODES:
   - ANSI/ICC A117.1 AS REFERENCED BY BUILDING CODE
   - 2010 ADA STANDARDS
2. SAFE HARBOR FOR COMMERCIAL SPACES: ANSI/ICC A117.1, VERSION AS REFERENCED BY APPLICABLE BUILDING CODE

## ACCESSIBILITY NOTES:

1. ALL DIMENSIONS NOTED ARE FROM FACE OF FINISH AND FINISH FLOOR LEVEL, UNO
2. THESE ARE DIAGRAMS ONLY AND DO NOT REFLECT THE ACTUAL FIXTURE OR DEVICE. REFER TO SPECIFICATIONS.
3. REFER TO SPECIFICATIONS AND DRAWINGS FOR SCOPE AND LOCATIONS OF RESTROOM AND TOILET ACCESSORIES. SCOPE MAY NOT INCLUDE ALL ACCESSORIES SHOWN ON THIS SHEET.
4. SEE DIAGRAMS AT LEFT FOR TOILET ACCESSORY MOUNTING AND ABBREVIATIONS
5. ACCESSIBILITY REQUIREMENTS OF COMMERCIAL SPACES APPLY TO COMMON AREAS OF MULTI-UNIT RESIDENTIAL BUILDINGS.
6. PROVIDE CONTINUOUS BLOCKING IN WALLS AT FIXTURES, GRAB BARS, CABINETRY AND ACCESSORIES WHERE REQUIRED
7. PROVIDE UNISTRUT OR STEEL SUPPORT FOR CEILING BRACED PARTITIONS (TYP.)
8. KNEE & TOE CLEARANCE - REFER TO LAVATORY DIAGRAM FOR MINIMUM REQUIRED DIMENSIONS

| Rev | Date | Issue |
|---|---|---|
| | | |

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**24022**
Project #


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2200 Western Avenue, Suite 301
Seattle, WA 98121
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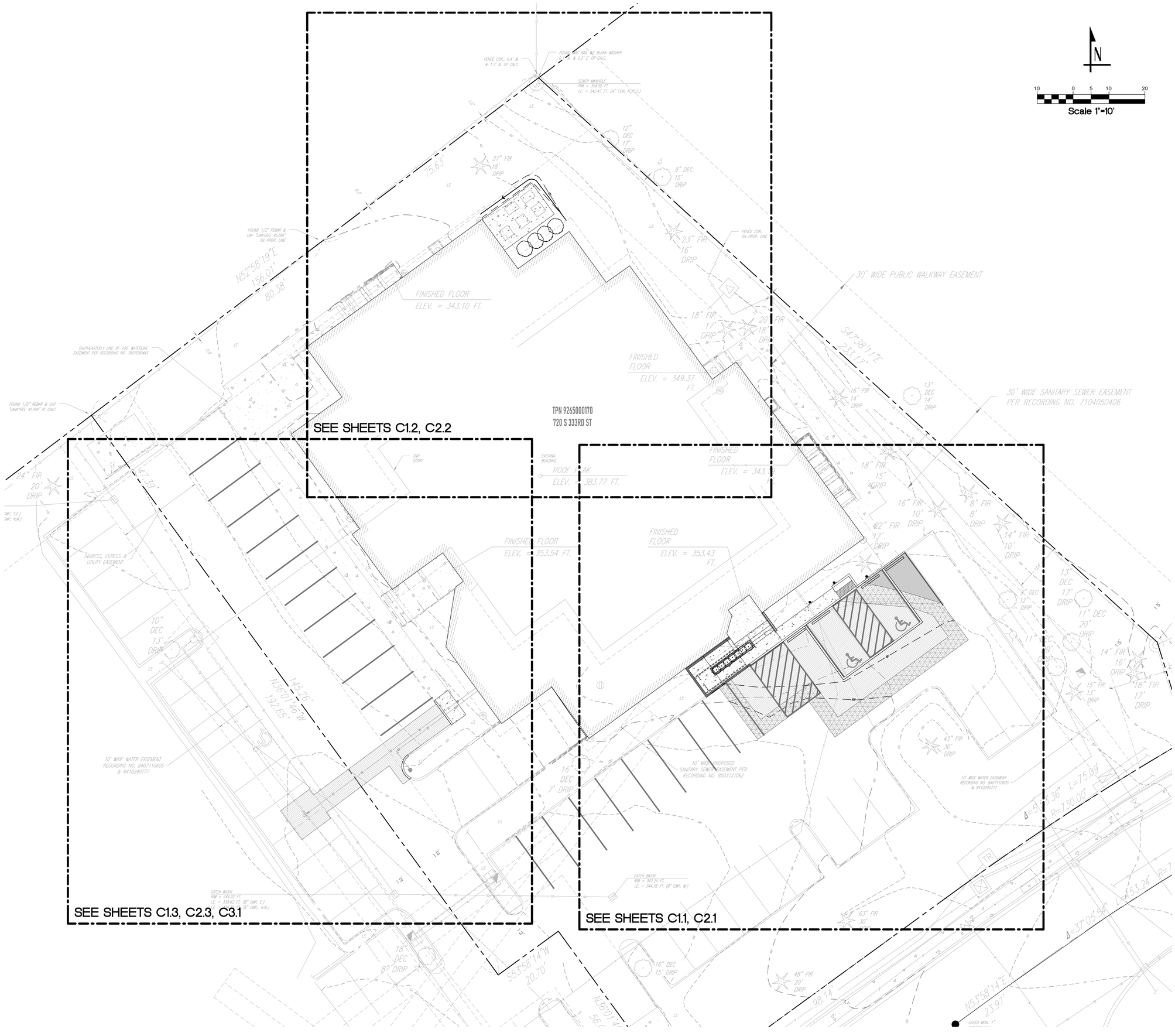
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**ACCESSIBILTY CODE DIAGRAMS**
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STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
7/15/25

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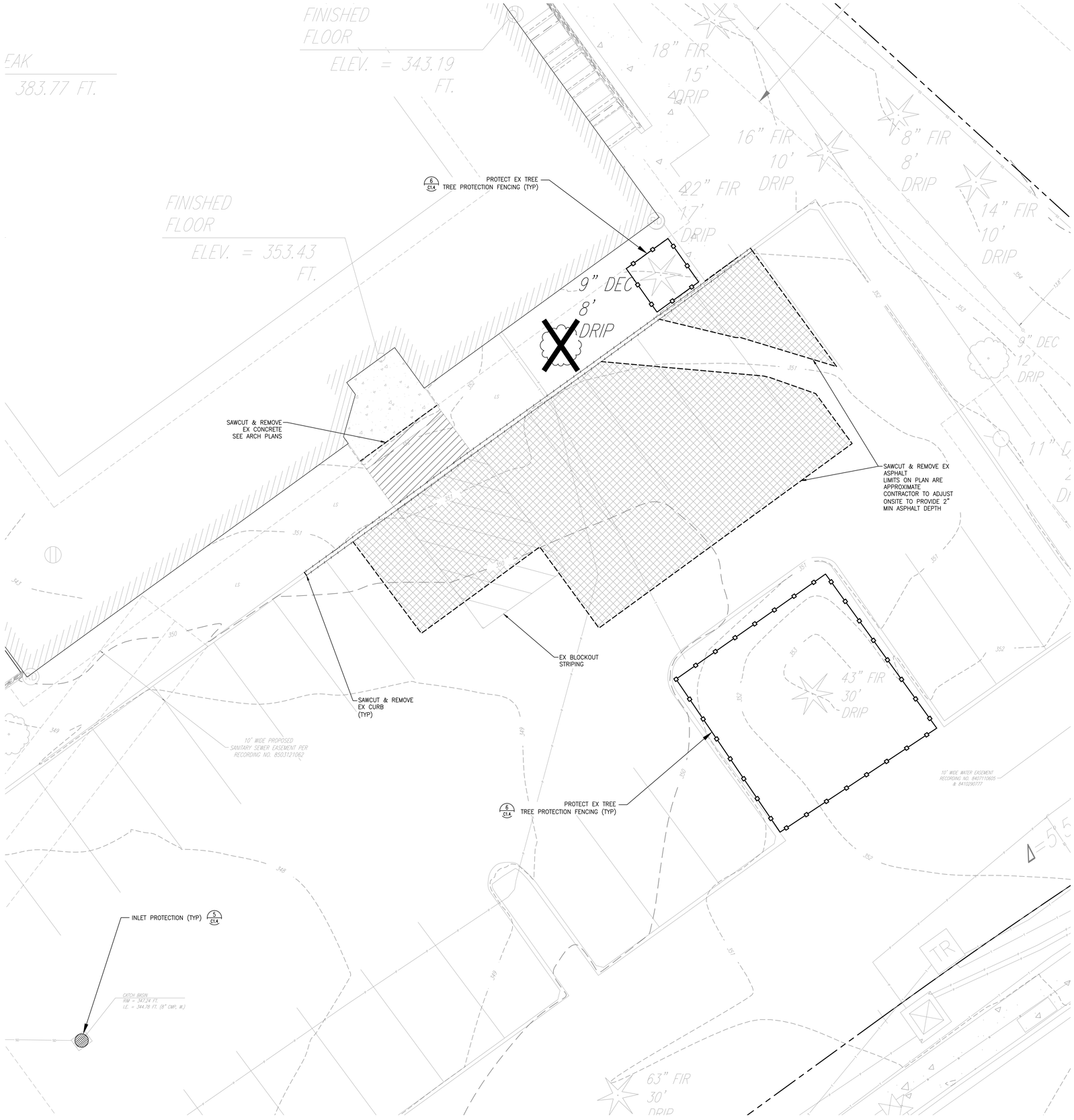
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Sheet Title

C0.1

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N

5 0 2.5 5 10

Scale 1"= 5'

## LEGEND

- PROPERTY LINE
- EX CONTOUR (INDEX)
- EX CONTOUR
- EX BUILDING
- SAWCUT LINE
- ASPHALT REMOVAL
- CONCRETE REMOVAL
- COMPOST FILTER SOCK
- EX TREE TO REMAIN
- EX TREE TO BE REMOVED
- TREE PROTECTION
- EX CURB TO BE REMOVED
- INLET PROTECTION CATCH BASIN INSERT

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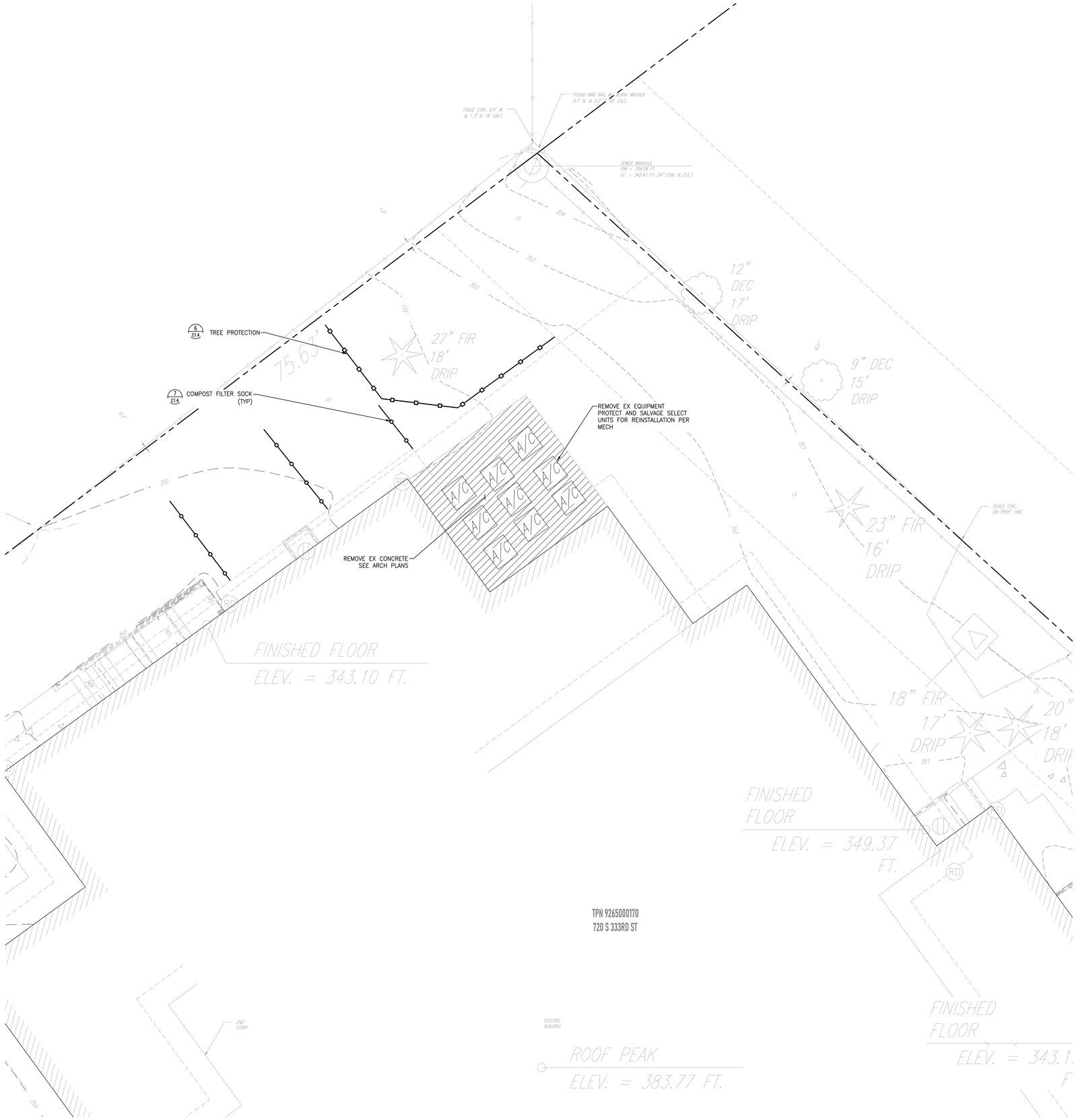
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Sheet Title

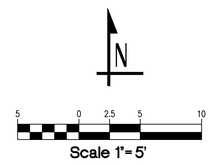
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## LEGEND

- PROPERTY LINE
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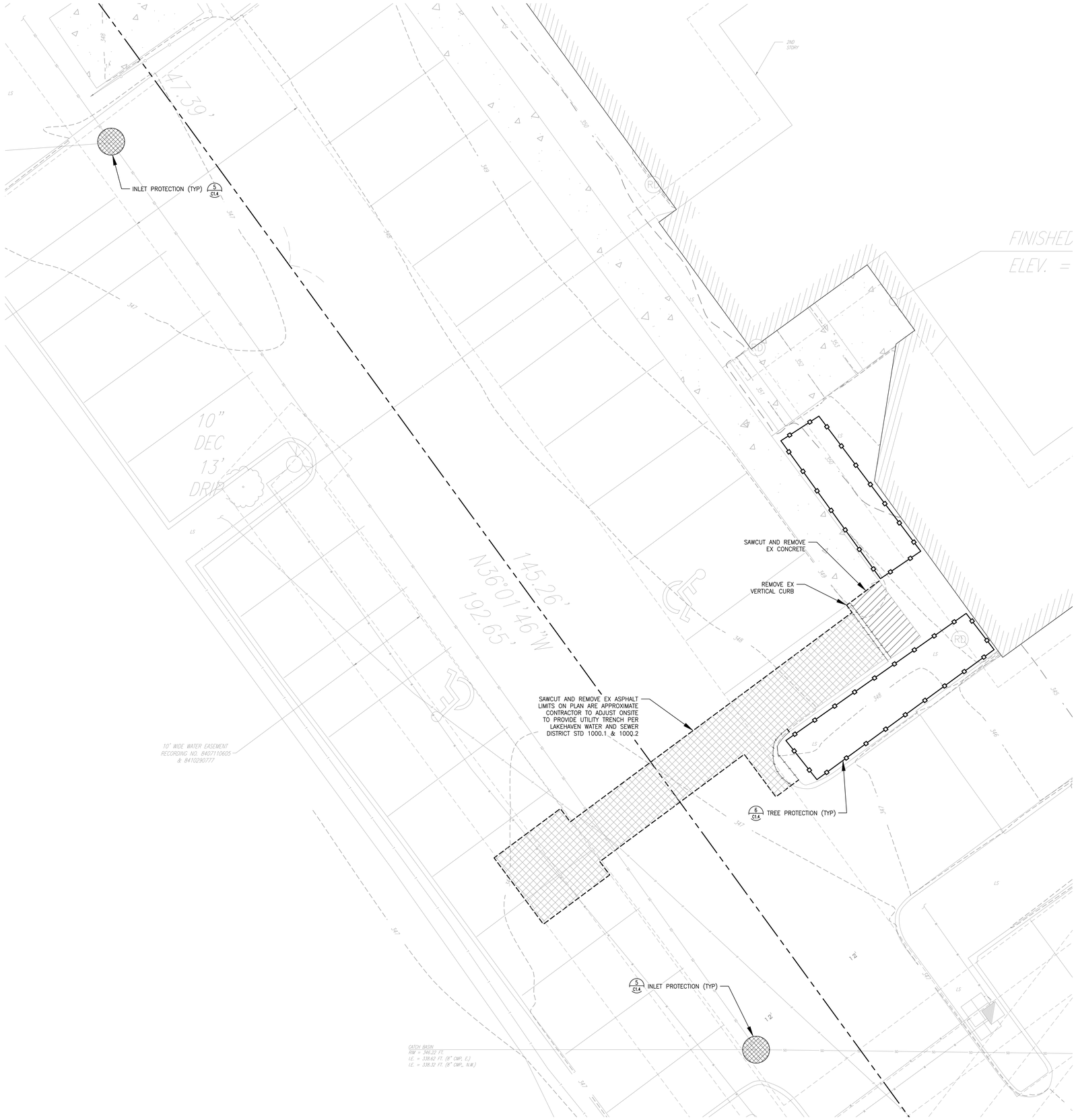
DEMO AND EROSION CONTROL
Sheet Title

C1.2

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Scale 1"= 5'

## LEGEND

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## GENERAL EROSION AND SEDIMENTATION CONTROL NOTES

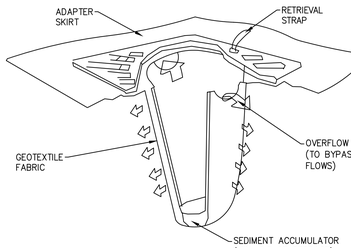
1. APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (I.E. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
4. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.
5. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED (I.E. ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS.
6. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
7. ANY AREA STRIPPED OF VEGETATION, INCLUDING ROADWAY EMBANKMENTS, WHERE NO FURTHER WORK IS ANTICIPATED OR A PERIOD OF 2 DAYS (WET SEASON) OR 7 DAYS (DRY SEASON), SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (I.E. SEEDING, MULCHING, NETTING, EROSION BLANKETS, ETC.)
8. ANY AREA NEEDING ESC MEASURES, NOT REQUIRING IMMEDIATE ATTENTION, SHALL BE ADDRESSED WITHIN 15 DAYS.
9. 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.
10. AT NO TIME SHALL MORE THAN ONE 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.
11. STABILIZED CONSTRUCTION ENTRANCES AND WASH PADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
12. WET SEASON REQUIREMENTS AS DESCRIBED IN APPENDIX D, SECTION D.2.4.2 OF THE KCSWDM ARE IN EFFECT BEGINNING OCTOBER 1 THROUGH APRIL 30.
13. 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 OR DISPERSION SYSTEM, THE FACILITY SHALL NOT BE USED AS A TEMPORARY SETTLING BASIN. NO UNDERGROUND DETENTION TANKS OR VAULTS SHALL BE USED AS A TEMPORARY SETTLING BASIN.
14. WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (I.E. ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE).
15. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF TWO INCHES.
16. MANAGEMENT PRACTICES PROVIDING SIGNIFICANT TREE PROTECTION SHALL BE PROVIDED PER SECTION 19.120 OF FWRC.

NTS GENERAL ERISION AND SEDIMENT CONTROL NOTES 2

## GENERAL NOTES

1. PROOF OF LIABILITY INSURANCE SHALL BE SUBMITTED TO THE CITY PRIOR TO PRE-CONSTRUCTION MEETING.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FEDERAL WAY REVISED CODE (FWRC), APPLICABLE ORDINANCES, AND THE CITY COUNCIL CONDITIONS OF PROJECT APPROVAL. THESE DOCUMENTS ARE SUPPLEMENTED BY THE MOST RECENT VERSION OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (WSDOT), APWA SPECIAL PROVISIONS, THE KING COUNTY ROAD STANDARDS (KCRS), AND THE KING COUNTY SURFACE WATER DESIGN MANUAL (KCSWDM). IT SHALL BE THE SOLE RESPONSIBILITY OF THE APPLICANT AND THE PROFESSIONAL ENGINEER TO CORRECT ANY ERROR, OMISSION, OR VARIATION FROM THE ABOVE REQUIREMENTS FOUND IN THESE PLANS. ALL CORRECTIONS SHALL BE AT NO ADDITIONAL COST OR LIABILITY TO THE CITY OF FEDERAL WAY.
3. THE DESIGN ELEMENTS WITHIN THESE PLANS HAVE BEEN REVIEWED ACCORDING TO THE FEDERAL WAY ENGINEERING REVIEW CHECKLIST. SOME ELEMENTS MAY HAVE BEEN OVERLOOKED OR MISSED BY THE CITY ENGINEERING PLAN REVIEWER. ANY VARIANCE FROM ADOPTED STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE CITY OF FEDERAL WAY, PRIOR TO CONSTRUCTION.
4. APPROVAL OF THIS ROAD, GRADING, AND DRAINAGE PLAN DOES NOT CONSTITUTE AN APPROVAL OF ANY OTHER CONSTRUCTION (I.E. DOMESTIC WATER CONVEYANCE, SEWER CONVEYANCE, GAS, ELECTRICITY, ETC.)
5. BEFORE ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY, A PRECONSTRUCTION MEETING MUST BE HELD BETWEEN THE CITY OF FEDERAL WAY, THE APPLICANT, AND THE APPLICANT'S CONSTRUCTION REPRESENTATIVE.
6. A SIGNED COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
7. ON-SITE CONSTRUCTION NOISE SHALL BE LIMITED AS PER FWRC (SECTION 19.105.040); NORMALLY THIS IS 7:00 A.M. TO 8:00 P.M., MONDAY THROUGH FRIDAY, AND 9:00 A.M. TO 8:00 P.M. ON SATURDAYS.
8. RIGHT-OF-WAY CONSTRUCTION IS ALLOWED 8:30 A.M. TO 3:00 P.M. MONDAY THROUGH FRIDAY. WRITTEN AUTHORIZATION TO WORK OUTSIDE OF THESE HOURS MUST BE GRANTED BY THE PUBLIC WORKS DIRECTOR.
9. IT SHALL BE THE APPLICANT'S/CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONSTRUCTION EASEMENTS NECESSARY BEFORE INITIATING OFF-SITE WORK WITHIN THE ROAD RIGHT-OF-WAY.
10. FRANCHISED UTILITIES OF OTHER INSTALLATIONS THAT ARE NOT SHOWN ON THESE APPROVED PLANS SHALL NOT BE CONSTRUCTED UNLESS AN APPROVED SET OF PLANS THAT MEET ALL CITY REQUIREMENTS AND THE REQUIREMENTS OF KCRS CHAPTER 8 ARE SUBMITTED TO THE CITY OF FEDERAL WAY AT LEAST THREE DAYS PRIOR TO CONSTRUCTION.
11. VERTICAL DATUM SHALL BE KCAS OR NGVD-29.
12. GROUNDWATER SYSTEM CONSTRUCTION SHALL BE WITHIN A RIGHT-OF-WAY OR APPROPRIATE DRAINAGE EASEMENTS, BUT NOT UNDERNEATH THE ROADWAY SECTION. ALL GROUNDWATER SYSTEMS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE WSDOT/APWA STANDARD SPECIFICATIONS.
13. ALL UTILITY TRENCHES IN THE RIGHT-OF-WAY SHALL BE BACKFILLED 5/8" CRUSHED ROCK AND COMPACTED TO 95% DENSITY. WHEN TRENCH WIDTH IS 18 INCHES OR LESS, AND IS WITHIN THE TRAVELED WAY, TRENCH WILL BE BACKFILLED WITH CONTROL DENSITY FILL (SELF-COMPACTED FLOWABLE FILL) AS DEFINED BY WSDOT 2-09.3(1)E. THE AGGREGATE WILL BE 3/8-INCH MINUS.
14. ALL ROADWAY SUBGRADE SHALL BE BACKFILLED AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH WSDOT 2-06.3.
15. OPEN CUTTING OF EXISTING ROADWAYS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE PUBLIC WORKS DIRECTOR AND NOTED ON THESE APPROVED PLANS. ANY OPEN CUT SHALL BE RESTORED IN ACCORDANCE WITH KCRS 8.03(8) 3.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. ALL SECTIONS OF THE WSDOT STANDARD SPECIFICATIONS 1-07.23 - TRAFFIC CONTROL, SHALL APPLY.
17. CONTRACTOR SHALL PROVIDE AND INSTALL ALL REGULATORY AND WARNING SIGNS PER THE LATEST EDITION OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
18. ALL UTILITIES SHALL BE ADJUSTED TO FINAL GRADE AFTER PAVING ASPHALT WEARING COURSE.
19. ROCKERIES ARE CONSIDERED TO BE A METHOD OF BANK STABILIZATION AND EROSION ONLY. ROCKERIES SHALL NOT BE CONSTRUCTED TO SERVE AS RETAINING WALLS. ALL ROCKERIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CFW DRAWING NUMBERS FW.020.10, FW.020.20. ROCKERIES MAY NOT EXCEED SIX FEET IN HEIGHT FOR CUT SECTIONS OR FOUR FEET IN HEIGHT FOR FILL SECTIONS UNLESS DESIGNED BY A GEOTECHNICAL OR STRUCTURAL ENGINEER LICENSED IN THE STATE OF WASHINGTON.

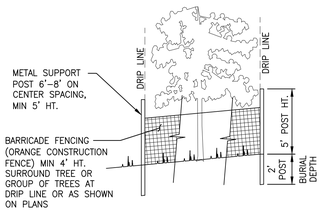
NTS GENERAL NOTES 4




SCHEMATIC DETAIL

PROVIDE "ULTRA-DRAIN GUARD INLET FILTER" OR APPROVED EQUAL MANUFACTURE NAME: ACF ENVIRONMENTAL

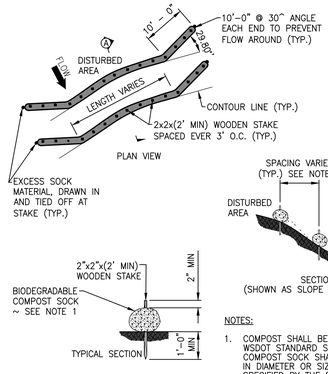
NTS INLET PROTECTION 5




NOTES:

1. A 4 FOOT HIGH TEMPORARY FENCE MUST BE PLACED AT THE DRIP LINE OF TREES PRIOR TO THE COMMENCEMENT OF CLEARING OR EARTHWORK. NOTIFY THE CLEARING AND GRADING INSPECTOR TO GET BOTH THE INSPECTION AND WRITTEN APPROVAL OF FLAGGED TREES AND TEMPORARY PROTECTION FENCING AROUND TREES TO BE SAVED PER THE APPROVED CLEARING AND GRADING PLAN.
2. NO STOCKPILING OF MATERIAL AND NO VEHICULAR TRAFFIC ARE ALLOWED WITHIN THE LIMITS OF THE DRIPLINE, THE TEMPORARY FENCING, UNLESS APPROVED BY THE ARBORIST. FILLING, EXCAVATION, AND CLEARING MUST BE ACCOMPLISHED BY HAND METHODS ONLY UNLESS APPROVED BY ARBORIST.
3. ROOTS OF TREES TO BE SAVED WHICH ARE DAMAGED DURING CONSTRUCTION MUST BE TREATED IN THE FOLLOWING WAY: FOR DAMAGED ROOTS OVER 1" IN DIAMETER, MAKE A CLEAN, STRAIGHT CUT TO REMOVE THE DAMAGED PORTION OF THE ROOT ALL EXPOSED ROOTS WILL BE TEMPORARILY COVERED WITH DAMP BURLAP OR WOOD SHAVINGS TO PREVENT DRYING AND COVERED WITH EARTH AS SOON AS POSSIBLE.

NTS TREE PROTECTION FENCE 6




NOTES:

1. COMPOST SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 9.14.4(8). COMPOST SOCK SHALL BE A MINIMUM OF 10" IN DIAMETER OR SIZED TO SUIT CONDITIONS AS SPECIFIED BY THE ENGINEER. SOCK MATERIAL SHALL BE BIO-DEGRADABLE. PROVIDE COMPOST SOCK BY CEDAR GROVE COMPOSTING, OR APPROVED EQUIVALENT.
2. ALWAYS INSTALL COMPOST SOCK PERPENDICULAR TO SLOPE AND ALONG CONTOUR LINES.
3. REMOVE SEDIMENT FROM THE UP SLOPE SIDE OF THE COMPOST SOCK WHEN ACCUMULATION HAS REACHED 1/2 OF THE EFFECTIVE HEIGHT OF THE COMPOST SOCK.
4. ONCE PLACED ON THE GROUND, APPLY WEIGHT TO THE SOCK BY WALKING ON OR ROLLING TO IMPROVE CONTACT BTWN THE SOCK AND THE GROUND SURFACE.

NTS COMPOST FILTER SOCK 7

NTS NOT USED 8

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| | | |

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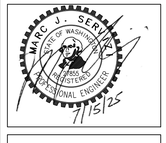
**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #

**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com

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TESC DETAILS AND NOTES
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C1.4

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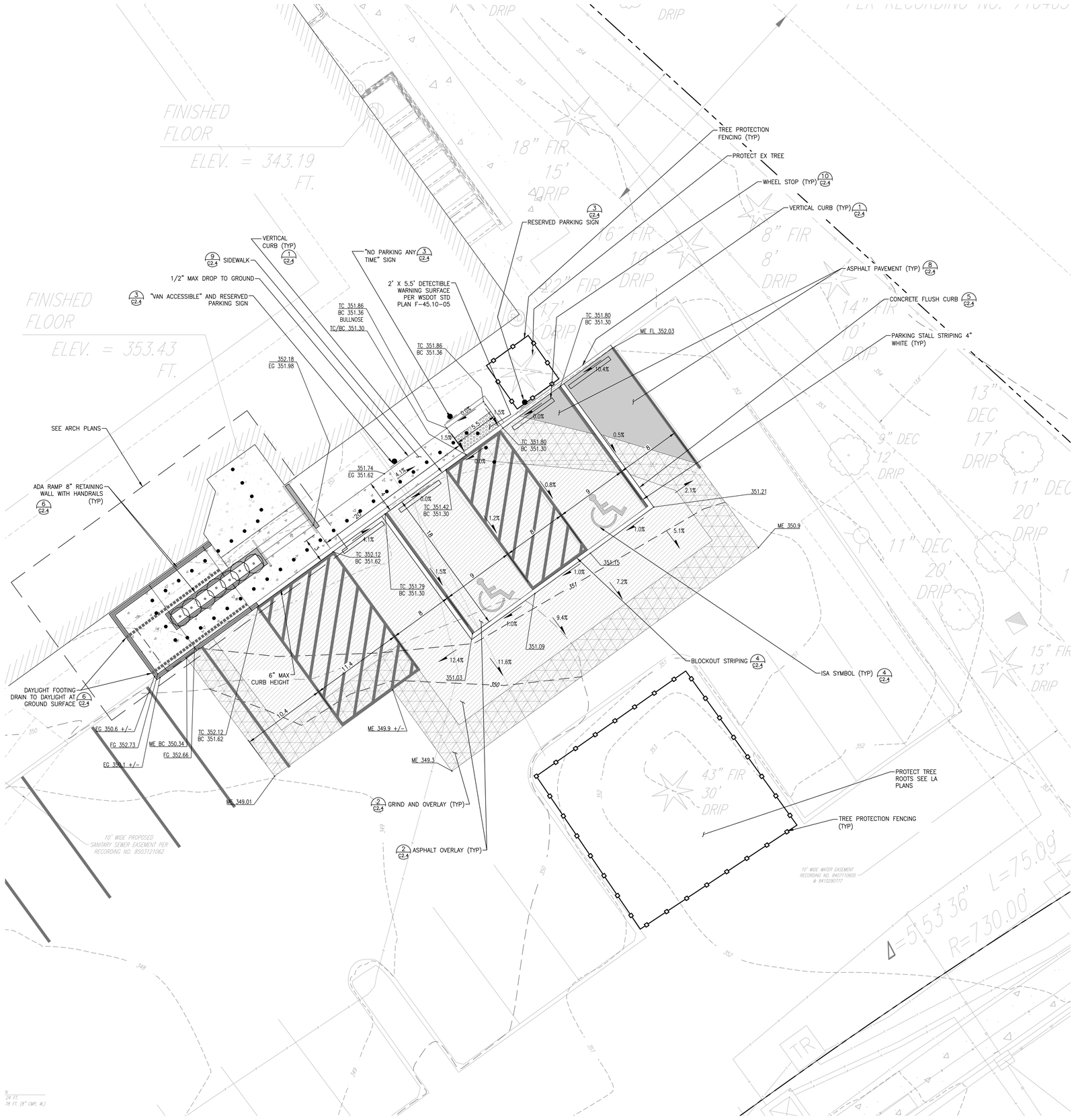
## PROJECT NOTES

1. MATERIALS, WORKMANSHIP, DESIGN AND CONSTRUCTION SHALL CONFORM TO THE LATEST LAKEHAVEN WATER AND SEWER DISTRICT STANDARD SPECIFICATIONS AND LAKEHAVEN WATER AND SEWER DISTRICT STANDARD PLANS UNLESS OTHERWISE STATED HEREIN
2. A COPY OF THE APPROVED PLANS MUST BE ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
3. THE CONTRACTOR SHALL COORDINATE UTILITY RELOCATION, ABANDONMENT AND NEW SERVICES WITH APPLICABLE UTILITY DEPARTMENT AND PRIVATE UTILITY COMPANIES.
4. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION AND HORIZONTAL AND VERTICAL CONTROLS PRIOR TO BEGINNING WORK. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING, SETTING, AND MARKING LINE AND LOCATION STAKES INCLUDING OFFSETS AND GENERAL CONSTRUCTION STAKING. WHEN WORK REQUIRING CONTROL IS REQUIRED, ALL NECESSARY RELATED EQUIPMENT AND INSTRUMENTS SHALL BE ON SITE. A QUALIFIED LAYOUT ENGINEER, SURVEYOR, OR TECHNICAL SPECIALIST SHALL BE ASSIGNED TO THE CONTRACTOR CREW FOR THIS WORK. THE EQUIPMENT AND PERSONNEL MUST BE AVAILABLE, AT NO ADDITIONAL COST TO THE OWNER FOR THE PURPOSES OF VERIFYING LAYOUT, CONFORMANCE OF GRADING, AND CERTIFYING THE ACCURACY OF THE WORK PER THE CONTRACT DOCUMENTS.
5. BEFORE DIGGING, VERIFY ALL UTILITY LOCATIONS AND CALL BEFORE YOU DIG AT 811. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE SERVICES OF AN UNDERGROUND UTILITY LOCATION SERVICE TO LOCATE AND MAINTAIN MARKINGS THAT INDICATE LOCATIONS OF UNDERGROUND UTILITIES WITHIN THE CONSTRUCTION AREA.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, ADDITIONS AND UPGRADES OF ALL TESC FACILITIES UNTIL ALL CONSTRUCTION IS APPROVED. WORK SHALL BE IN ACCORDANCE WITH THE LATEST CITY OF FEDERAL WAY STANDARDS. THE EROSION AND SEDIMENT CONTROL (ESC) FACILITIES SHALL BE CONSTRUCTED BEFORE OR IN CONJUNCTION WITH DEMOLITION AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS. THE TESC FACILITIES SHOWN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL ADD, UPGRADE, ADJUST AND REMOVE THE EROSION CONTROL FACILITIES (E.G. ADDITIONAL SUMPS/PUMPS, SOIL AND SITE STABILIZATION, ADDITIONAL CONSTRUCTION ACCESS OR STAGING AREAS, FILTER FENCES, CONSTRUCTION OF DITCHES ETC.) AS NEEDED TO MAINTAIN A WORKABLE SITE AND TO MEET JURISDICTIONAL REQUIREMENTS. CONTRACTOR SHALL PAY FOR ALL COSTS ASSOCIATED WITH THE CONSTRUCTION, MAINTENANCE, UPGRADING, ADDING AND REMOVAL OF THE EROSION CONTROL SYSTEM THROUGHOUT PROJECT DURATION AS PART OF THE BASE BID.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE CONTRACTOR'S WORK. THE CIVIL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OF ACTUAL AND /OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE CIVIL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES TO THE OWNER, CONTRACTOR, OR OTHER ENTITIES OR PERSONS AND THE PROJECT SITE.
8. UNDERGROUND EXISTING UTILITIES, STRUCTURES AND FEATURES ARE ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM READILY AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE. THE CONTRACTOR IS ADVISED THAT DUE TO THE NATURE OF UNDERGROUND RECORDS, IT IS POSSIBLE THAT NOT ALL UNDERGROUND FACILITIES ARE SHOWN. THE CONTRACTOR IS REQUIRED TO CALL AND COORDINATE UNDERGROUND LOCATES, AND MAINTAIN MARKINGS THAT INDICATE LOCATIONS OF UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL EXCAVATE CAREFULLY AT ALL TIMES, AND TO USE A VACTOR TRUCK, AS NECESSARY. IF UNDOCUMENTED UNDERGROUND FACILITIES ARE FOUND, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNERS REPRESENTATIVE AS WELL AS THE UTILITY PURVEYOR/FACILITY OWNER, IF KNOWN. THE CONTRACTOR SHALL NOT REMOVE OR DAMAGE FACILITIES UNLESS DIRECTED TO DO SO.
9. PRIOR TO PAVING, SUBGRADES SHALL BE PROOF-ROLLED WITH A FULLY LOADED DUMPTRUCK OR EQUIVALENT UNDER THE OBSERVATION OF A GEOTECHNICAL ENGINEER OR TECHNICIAN. SOILS FROM REMAINING SOFT SPOTS SHALL BE REPLACED WITH STRUCTURAL FILL OR CRUSHED BASE IN ACCORDANCE WITH THE PLANS.
10. PRIOR TO PAVING, CONTRACTOR SHALL FIELD VERIFY THE AREA IS GRADED SUCH THAT THE PAVED SURFACE WILL DRAIN TO AN APPROPRIATE LOCATION.
11. THE CONTRACTOR SHALL TAKE SPECIAL CARE WHEN INSTALLING PAVING INTENDED TO BE ACCESSIBLE SUCH THAT THEY MEET THE REQUIREMENTS OF CHAPTER 4 AND CHAPTER 5 OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN. IF THE CONTRACTOR IS UNCERTAIN OF THE STANDARD, OR WHETHER THE FINAL WORK WILL MEET THE STANDARD, CONSULT WITH THE PROJECT ENGINEER AND INSPECTOR PRIOR TO POURING OR PAVING TO CONFIRM THE STANDARD AND ACCEPTANCE CRITERIA. GRADES WITHIN THE ADA RAMPS, ACCESSIBLE ROUTES AND PARKING AREAS ARE HELD TO A HIGHER STANDARD OF CARE. DEVIATION FROM GRADE ACROSS ANY TWO-FOOT SECTION, IN ANY DIRECTION, SHALL NOT EXCEED ACCESSIBLE REQUIREMENTS NOR DIRECT STORMWATER TOWARD THE BUILDING IN ANY WAY AT DOORWAY LANDINGS. EITHER OF THESE CONDITIONS WILL WARRANT REMOVAL AND REPLACEMENT OF THE PAVING TO MEET REQUIREMENTS AT THE CONTRACTOR'S EXPENSE.

NTS PROJECT NOTES 10

NTS NOT USED 11

NTS NOT USED 12




N

5 0 2.5 5 10

Scale 1"= 5'

## LEGEND

- PROPERTY LINE
- 230 EX CONTOUR (INDEX)
- 231 EX CONTOUR
- 230 PROPOSED CONTOUR (INDEX)
- 231 PROPOSED CONTOUR
- EX BUILDING
- CONCRETE PAVEMENT
- TACTILE WARNING STRIP
- ASPHALT (AC) PAVEMENT
- ASPHALT PAVEMENT OVERLAY
- GRIND AND OVERLAY
- CONCRETE RETAINING WALL
- CURB AND GUTTER
- ACCESSIBLE ROUTE
- TC TOP OF CURB
- BC BOTTOM OF CURB
- FG FINISHED GRADE

NOTE:
1. ADA PARKING STALL MAX SLOPE IS 2% IN ANY DIRECTION
2. INSTALL FLUSH CURB AHEAD OF PAVING AND CONFIRM SLOPES BY SURVEY AND JHA PRIOR TO PAVING

## DRAINAGE AREA SUMMARY

| DESCRIPTION | AREA (SF) | NOTE |
|---|---|---|
| NEW AND REPLACED IMPERVIOUS SURFACE | 575 | LESS THAN 2,000 SF; PROJECT NOT SUBJECT TO DRAINAGE REVIEW |
| PAVEMENT OVERLAY | 1,552 | OVERLAY IS NOT CONSIDERED A NEW OR REPLACED SURFACE |

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f. 206.973.5344
www.lpdengineering.com

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #

**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com

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MARC J. SERIN STATE OF WASHINGTON 22855 REGISTERED PROFESSIONAL ENGINEER 7/15/25

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PAVING AND GRADING PLAN
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N

5 0 2.5 5 10

Scale 1"= 5'

## LEGEND

- PROPERTY LINE
- 230 EX CONTOUR (INDEX)
- 231 EX CONTOUR
- 230 PROPOSED CONTOUR (INDEX)
- 231 PROPOSED CONTOUR
- EX BUILDING
- CONCRETE PAVEMENT
- DRAINAGE SWALE
- FG FINISHED GRADE

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**24022**
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**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com



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MARC J. SERVINO
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER
7/15/25

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206.443.8606
www.weinsteinau.com

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MARC J. SEMINARA
STATE OF WASHINGTON
21855
REGISTERED
PROFESSIONAL ENGINEER
7/15/25

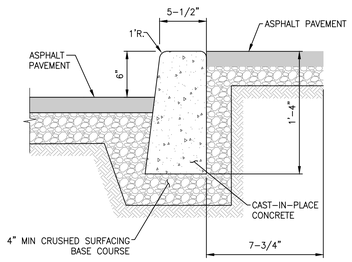
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PAVING AND GRADING PLAN
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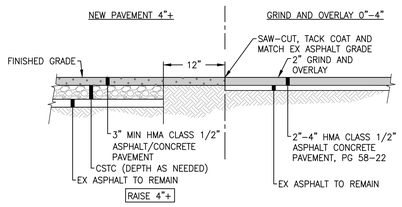
C2.3

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1. PROVIDE EXPANSION JOINTS AT MAX 15' OC.

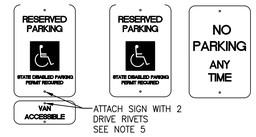
NTS **VERTICAL CURB** 1




NOTES:

1. PLACE ASPHALT IN ACCORDANCE WITH WSDOT APWA SECTION 5–04.
2. PROOF ROLL AND REMOVE ANY SOFT SPOTS. REPLACE REMOVED MATERIAL WITH GRAVEL BORROW. CONTRACTOR SHALL TEST AND VERIFY SUBGRADE MEETS COMPACTION REQUIREMENTS PRIOR TO PAVING.

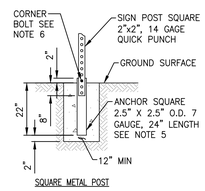
NTS **ASPHALT OVERLAY** 2

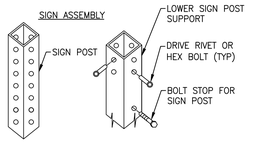



EACH PARKING SPACE RESERVED FOR PERSONS WITH PHYSICAL DISABILITIES SHALL BE IDENTIFIED BY A REFLECTORIZED SIGN PERMANENTLY POSTED IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE CONSISTING OF A PROFILE VIEW OF A WHEELCHAIR WITH OCCUPANT IN WHITE ON DARK BLUE BACKGROUND. THE SIGN SHALL NOT BE SMALLER THAN 70 SQUARE INCHES IN AREA AND SHALL BE CENTERED ON AND JUST BEYOND THE FRONT EDGE OF THE PARKING STALL. SIGNS MAY ALSO BE HUNG ON THE WALL AT THE INTERIOR END OF THE PARKING SPACE. SIGN MOUNTING HEIGHT SHALL BE 60 INCHES ABOVE THE PARKING SPACE FINISHED GRADE.

AN ADDITIONAL SIGN SHALL ALSO BE POSTED, IN A CONSPICUOUS PLACE, AT EACH ENTRANCE TO OFF–STREET PARKING FACILITIES, OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE. THE SIGN SHALL BE NOT LESS THAN 17 INCHES BY 22 INCHES IN SIZE WITH LETTERING NOT LESS THAN 1 INCH IN HEIGHT, WHICH CLEARLY AND CONSPICUOUSLY STATES THE FOLLOWING:

"UNAUTHORIZED VEHICLES PARKED IN DESIGNATED DISABLED PARKING SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR LICENSE PLATES ISSUED FOR PHYSICALLY DISABLED PERSONS MAY BE TOWED AWAY AT OWNER'S EXPENSE. TOWED VEHICLES MAY BE RECLAIMED AT _____ OR _____ OR BY TELEPHONING _____."



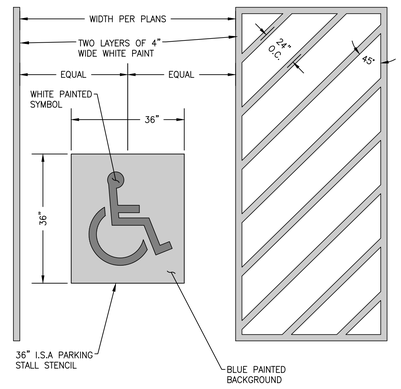




ISOMETRIC VIEW

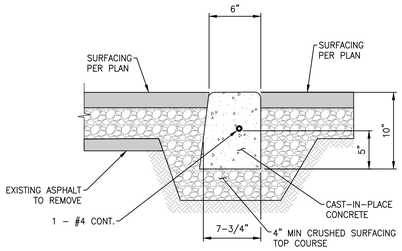
METAL POST NOTES:

1. METAL POSTS SHALL BE TELESPAR QUICK PUNCH POST.
2. FOR IN–SIDEWALK INSTALLATIONS, CORE 4" DIAM. HOLE. ANCHOR LENGTH MAY BE DECREASED TO 12".
3. POST SHALL BE ROLLED CARBON SHEET STEEL, ASTM A570 GRADE 50 AND BE HOT DIPPED GALVANIZED AASHTO M–120 YIELD STRENGTH 60,000 PSI MIN. POST SHALL HAVE 7/16" DIE–PUNCHED KNOCKOUTS ON 1" CENTERS FULL LENGTH, FOUR SIDES.
4. ANCHOR SHALL HAVE 4 7/16" HOLES ONE EACH SIDE 2" FROM TOP END. FINISH SHALL BE ZINC HOT DIPPED GALVANIZED MATERIAL TO MEET ASTM A500 GRADE B.
5. DRIVE RIVETS TO BE TL3806 3/8" DIA.
6. CORNER BOLTS TO BE TLCB516M.

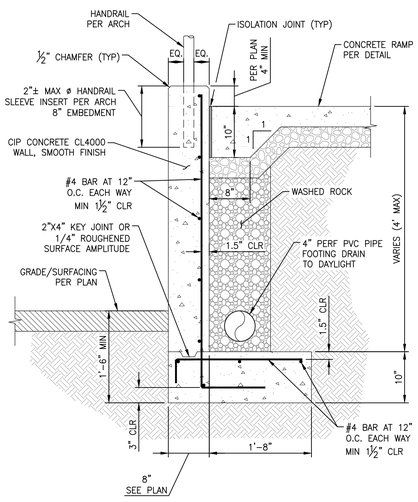
NTS **PARKING STALL SIGN** 3



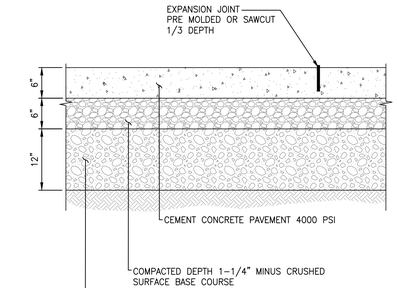

NTS **ISA SYMBOL (PAINTED WHITE & BLOCKOUT STRIPING** 4




NTS **FLUSH CURB** 5



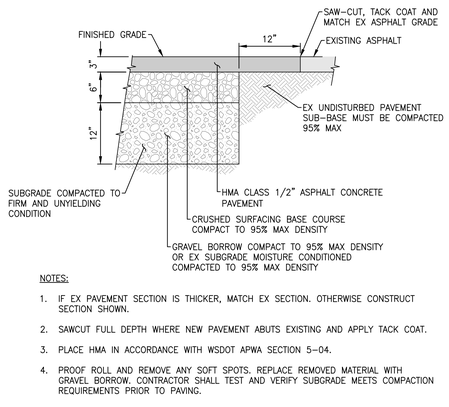

NTS **ADA RAMP RETAINING WALL (OPTION A)** 6




NOTES:

1. PLACE CONTRACTION JOINTS AT MAX 10' O.C. IN BOTH DIRECTIONS ON SLAB. CONTRACTION JOINTS SHALL BE MADE BY SAW–CUT OR TOOLED INTO CONCRETE DURING PLACEMENT.
2. CONCRETE FINISH: MEDIUM BROOM

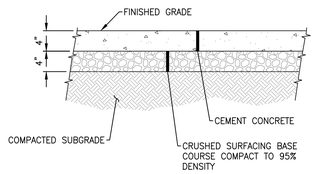
NTS **CONCRETE PAVEMENT** 7




NOTES:

1. IF EX PAVEMENT SECTION IS THICKER, MATCH EX SECTION. OTHERWISE CONSTRUCT SECTION SHOWN.
2. SAWCUT FULL DEPTH WHERE NEW PAVEMENT ABUTS EXISTING AND APPLY TACK COAT.
3. PLACE HMA IN ACCORDANCE WITH WSDOT APWA SECTION 5–04.
4. PROOF ROLL AND REMOVE ANY SOFT SPOTS. REPLACE REMOVED MATERIAL WITH GRAVEL BORROW. CONTRACTOR SHALL TEST AND VERIFY SUBGRADE MEETS COMPACTION REQUIREMENTS PRIOR TO PAVING.

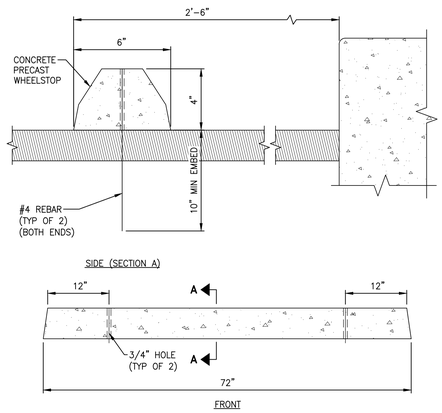
NTS **ASPHALT PAVEMENT** 8




NOTE:

1. MINIMUM CONCRETE 3000 P.S.I..
2. PLACE EXPANSION JOINTS @ 10' O.C. TYPICAL ON WALKWAY PATHS UNLESS OTHERWISE NOTED ON ARCHITECTURAL OR LANDSCAPE ARCHITECTURAL DRAWINGS.
3. PLACE CONTRACTION JOINTS @ 5' O.C. TYPICAL ON WALKWAY PATHS UNLESS OTHERWISE NOTED ON ARCHITECTURAL OR LANDSCAPE ARCHITECTURAL DRAWINGS.
4. IF WALKWAY PATH IS OVER 7' WIDE, PLACE LONGITUDINAL CONTRACTION JOINT. AT CENTER OF PATH UNLESS OTHERWISE NOTED IN ARCHITECTURAL OR LANDSCAPE ARCHITECTURAL DRAWINGS.
5. WHERE MEETING OR MATCHING EXISTING WALKWAY PATH. START NEW WALKWAY AT EXISTING JOINT. MATCH EXISTING SCORING PATTERN & CONCRETE FINISH.
6. FOR PLAZA CONCRETE, PLACE CONTRACTION JOINTS AT A MAXIMUM SPACING OF 12' O.C. AND A MAXIMUM LENGTH TO WIDTH RATIO 1.25' UNLESS OTHERWISE NOTED ON ARCHITECTURAL OR LANDSCAPE ARCHITECTURAL DRAWINGS.
7. COLOR AND FINISH PER ARCHITECTURAL OR LANDSCAPE ARCHITECTURAL DRAWINGS.

NTS **SIDEWALK** 9




NTS **WHEEL STOP** 10

NTS **NOT USED** 11

NTS **NOT USED** 12

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| Rev | Date | Issue |
|---|---|---|
| | | |

LPD engineering pllc
1932 First Ave Suite 500 Seattle, WA 98101
p. 206.725.1211
f. 206.973.5344
www.lpdengineering.com

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #

**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com

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MARC J. SERVI — STATE OF WASHINGTON — 22800 — REGISTERED PROFESSIONAL ENGINEER
7/15/25

**BID SET**
Issue

**07-18-2025**
Issue Date

PAVING AND GRADING DETAILS
Sheet Title

C2.4

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# LAKEHAVEN WATER AND SEWER DISTRICT
# FIRE SPRINKLERS SERVICE PLANS

# SOUTH KING FIRE HEADQUARTERS T.I.

LAKEHAVEN WATER AND SEWER DISTRICT NEITHER WARRANTS NOR GUARANTEES THE ACCURACY OF ANY FACILITY INFORMATION SHOWN. FACILITY LOCATIONS AND CONDITIONS ARE SUBJECT TO FIELD VERIFICATION.

## LWSD STANDARD PLANS (WATER)

| STANDARD PLAN DRAWINGS | | |
|---|---|---|
| PLAN ID | TITLE | PRIVATE SERVICE |
| 1000.1/2 | STANDARD TRENCH – RIGID PIPE WATER MAIN; LOWER TRENCH – UTILITY CROSSINGS | X |
| 1003.1/2 | CONCRETE THRUST BLOCKING – HORIZONTAL & CONCAVE VERTICAL BENDS, 2 PGS. | X |
| 1002 | VALVE BOX AND PROTECTIVE PAD | X |

## PROJECT NOTES

1. MATERIALS, WORKMANSHIP, DESIGN AND CONSTRUCTION SHALL CONFORM TO THE LATEST LAKEHAVEN WATER AND SEWER DISTRICT STANDARD SPECIFICATIONS AND LAKEHAVEN WATER AND SEWER DISTRICT STANDARD PLANS UNLESS OTHERWISE STATED HEREIN
2. A COPY OF THE APPROVED PLANS MUST BE ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
3. THE CONTRACTOR SHALL COORDINATE UTILITY RELOCATION, ABANDONMENT AND NEW SERVICES WITH APPLICABLE UTILITY DEPARTMENT AND PRIVATE UTILITY COMPANIES.
4. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION AND HORIZONTAL AND VERTICAL CONTROLS PRIOR TO BEGINNING WORK. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING, SETTING, AND MARKING LINE AND LOCATION STAKES INCLUDING OFFSETS AND GENERAL CONSTRUCTION STAKING. WHEN WORK REQUIRING CONTROL IS REQUIRED, ALL NECESSARY RELATED EQUIPMENT AND INSTRUMENTS SHALL BE ON SITE. A QUALIFIED LAYOUT ENGINEER, SURVEYOR, OR TECHNICAL SPECIALIST SHALL BE ASSIGNED TO THE CONTRACTOR CREW FOR THIS WORK. THE EQUIPMENT AND PERSONNEL MUST BE AVAILABLE, AT NO ADDITIONAL COST TO THE OWNER FOR THE PURPOSES OF VERIFYING LAYOUT, CONFORMANCE OF GRADING, AND CERTIFYING THE ACCURACY OF THE WORK PER THE CONTRACT DOCUMENTS.
5. BEFORE DIGGING, VERIFY ALL UTILITY LOCATIONS AND CALL BEFORE YOU DIG AT 811. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE SERVICES OF AN UNDERGROUND UTILITY LOCATION SERVICE TO LOCATE AND MAINTAIN MARKINGS THAT INDICATE LOCATIONS OF UNDERGROUND UTILITIES WITHIN THE CONSTRUCTION AREA.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, ADDITIONS AND UPGRADES OF ALL TESC FACILITIES UNTIL ALL CONSTRUCTION IS APPROVED. WORK SHALL BE IN ACCORDANCE WITH THE LATEST CITY OF FEDERAL WAY STANDARDS. THE EROSION AND SEDIMENT CONTROL (ESC) FACILITIES SHALL BE CONSTRUCTED BEFORE OR IN CONJUNCTION WITH DEMOLITION AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS. THE TESC FACILITIES SHOWN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL ADD, UPGRADE, ADJUST AND REMOVE THE EROSION CONTROL FACILITIES (E.G. ADDITIONAL SUMPS/PUMPS, SOIL AND SITE STABILIZATION, ADDITIONAL CONSTRUCTION ACCESS OR STAGING AREAS, FILTER FENCES, CONSTRUCTION OF DITCHES ETC.) AS NEEDED TO MAINTAIN A WORKABLE SITE AND TO MEET JURISDICTIONAL REQUIREMENTS. CONTRACTOR SHALL PAY FOR ALL COSTS ASSOCIATED WITH THE CONSTRUCTION, MAINTENANCE, UPGRADING, ADDING AND REMOVAL OF THE EROSION CONTROL SYSTEM THROUGHOUT PROJECT DURATION AS PART OF THE BASE BID.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE CONTRACTOR'S WORK. THE CIVIL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OF ACTUAL AND /OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE CIVIL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES TO THE OWNER, CONTRACTOR, OR OTHER ENTITIES OR PERSONS AND THE PROJECT SITE.
8. UNDERGROUND EXISTING UTILITIES, STRUCTURES AND FEATURES ARE ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM READILY AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE. THE CONTRACTOR IS ADVISED THAT DUE TO THE NATURE OF UNDERGROUND RECORDS, IT IS POSSIBLE THAT NOT ALL UNDERGROUND FACILITIES ARE SHOWN. THE CONTRACTOR IS REQUIRED TO CALL AND COORDINATE UNDERGROUND LOCATES, AND MAINTAIN MARKINGS THAT INDICATE LOCATIONS OF UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL EXCAVATE CAREFULLY AT ALL TIMES, AND TO USE A VACTOR TRUCK, AS NECESSARY. IF UNDOCUMENTED UNDERGROUND FACILITIES ARE FOUND, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNERS REPRESENTATIVE AS WELL AS THE UTILITY PURVEYOR/FACILITY OWNER, IF KNOWN. THE CONTRACTOR SHALL NOT REMOVE OR DAMAGE FACILITIES UNLESS DIRECTED TO DO SO.
9. PRIOR TO PAVING, SUBGRADES SHALL BE PROOF-ROLLED WITH A FULLY LOADED DUMPTRUCK OR EQUIVALENT UNDER THE OBSERVATION OF A GEOTECHNICAL ENGINEER OR TECHNICIAN. SOILS FROM REMAINING SOFT SPOTS SHALL BE REPLACED WITH STRUCTURAL FILL OR CRUSHED BASE IN ACCORDANCE WITH THE PLANS.
10. PRIOR TO PAVING, CONTRACTOR SHALL FIELD VERIFY THE AREA IS GRADED SUCH THAT THE PAVED SURFACE WILL DRAIN TO AN APPROPRIATE LOCATION.
11. THE CONTRACTOR SHALL TAKE SPECIAL CARE WHEN INSTALLING PAVING INTENDED TO BE ACCESSIBLE SUCH THAT THEY MEET THE REQUIREMENTS OF CHAPTER 4 AND CHAPTER 5 OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN. IF THE CONTRACTOR IS UNCERTAIN OF THE STANDARD, OR WHETHER THE FINAL WORK WILL MEET THE STANDARD, CONSULT WITH THE PROJECT ENGINEER AND INSPECTOR PRIOR TO POURING OR PAVING TO CONFIRM THE STANDARD AND ACCEPTANCE CRITERIA. GRADES WITHIN THE ADA RAMPS, ACCESSIBLE ROUTES AND PARKING AREAS ARE HELD TO A HIGHER STANDARD OF CARE. DEVIATION FROM GRADE ACROSS ANY TWO-FOOT SECTION, IN ANY DIRECTION, SHALL NOT EXCEED ACCESSIBLE REQUIREMENTS NOR DIRECT STORMWATER TOWARD THE BUILDING IN ANY WAY AT DOORWAY LANDINGS. EITHER OF THESE CONDITIONS WILL WARRANT REMOVAL AND REPLACEMENT OF THE PAVING TO MEET REQUIREMENTS AT THE CONTRACTOR'S EXPENSE.

| SHEET LIST TABLE | |
|---|---|
| SHEET NO | DESCRIPTION |
| C-3.0 | WATER COVER |
| C-3.1 | WATER PLAN |
| C-3.2 | WATER DETAILS |

## PROJECT DATA

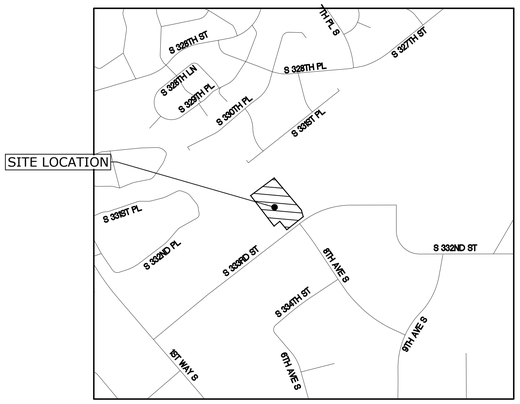
| | |
|---|---|
| PROJECT ADDRESS: | 720 S 333RD ST<br>FEDERAL WAY, WA 98003 |
| OWNER: | SOUTH KING FIRE |
| JURISDICTION: | LAKEHAVEN WATER AND SEWER DISTRICT |
| FIRE PROTECTION AUTHORITY: | SOUTH KING FIRE |
| ZONING: | OP |
| LOT SIZE: | 1.018 ACRES |
| TAX I.D. NO.: | 926500-0170 |

## WATER SYSTEM SUMMARY

1. FIRE SYSTEM
   A. POST MOUNTED PIV, FIRE SERVICE AND REMOTE FDC
   B. DDCV TO BE INSTALLED IN THE RISER ROOM

## VICINITY MAP

NOT TO SCALE




## LEGAL DESCRIPTION

WEST CAMPUS OFFICE PARK DIV 1 LOT 1 OF KC SHORT PLAT NO 884049 RECORDING NO 8503121062 SAID SHORT PLAT DEFINED – LOT 17 OF WEST CAMPUS OFFICE PARK DIVISION NO 1

| Rev | Date | Issue |
|---|---|---|


LPD engineering pllc
1932 First Ave
Suite 500
Seattle, WA 98101
p. 206.725.1211
f. 206.973.5344
www.lpdengineering.com


**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
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**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
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MARC J. SEMRAU
STATE OF WASHINGTON
EXPIRES: 7/15/26
PROFESSIONAL ENGINEER
7/15/25

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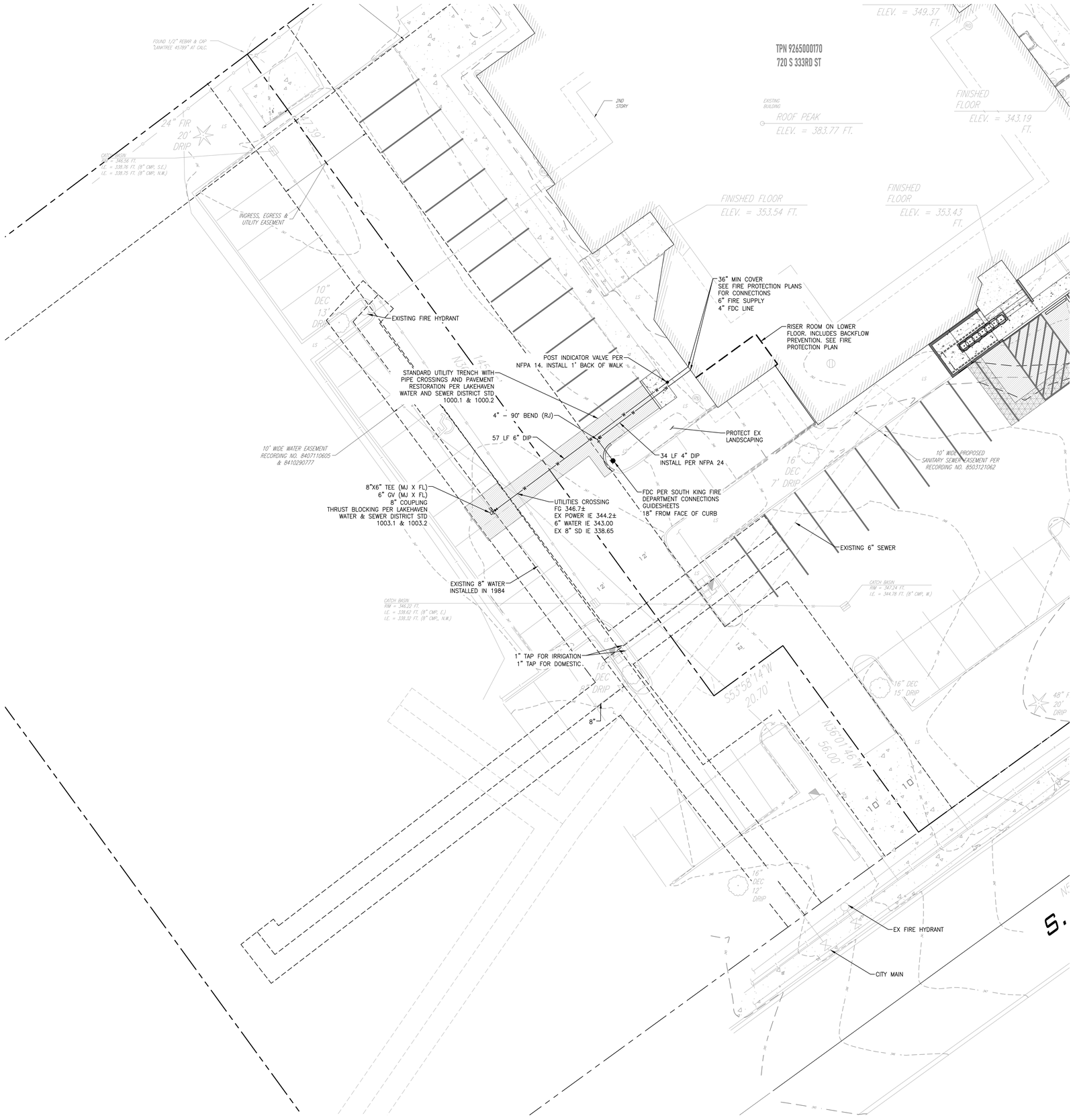
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WATER COVER
Sheet Title

C3.0

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## LEGEND

- PROPERTY LINE
- 230 EX CONTOUR (INDEX)
- 231 EX CONTOUR
- 230 PROPOSED CONTOUR (INDEX)
- 231 PROPOSED CONTOUR
- EX BUILDING
- CONCRETE PAVEMENT
- ASPHALT (AC) PAVEMENT
- DRAINAGE SWALE
- FG FINISHED GRADE
- FIRE HYDRANT
- WATER FITTINGS
- WATER SERVICE LINES
- WATER METER
- WATER SERVICE LINES
- FIRE SERVICE LINE
- FIRE SERVICE VAULT
- FIRE SERVICE CONNECTION

THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH LAKEHAVEN CONSTRUCTION GENERAL NOTES AND WATER UTILITY GENERAL CONSTRUCTION NOTES. SEE SHEET C3.2

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

| Rev | Date | Issue |
|---|---|---|

LPD engineering pllc
1932 First Ave Suite 500 Seattle, WA 98101
p. 206.725.1211 f. 206.973.5344 www.lpdengineering.com

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #

**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
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MARC J. SERRURIER STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER 7/15/25

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WATER PLAN
Sheet Title

C3.1

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LAKEHAVEN WATER AND SEWER DISTRICT
CONSTRUCTION GENERAL NOTES:

1. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE CURRENT WSDOT / APWA "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION," AS AMENDED OR SUPPLEMENTED BY APPROVED LAKEHAVEN WATER AND SEWER DISTRICT (LWSD) STANDARDS.
2. PROTECTION OF THE ENVIRONMENT: NO CONSTRUCTION RELATED ACTIVITY SHALL CAUSE OR CONTRIBUTE TO DEGRADATION OF THE ENVIRONMENT, INTRODUCTION OF POLLUTANTS TO SURFACE OR GROUND WATERS, OR PARTICULATE OR OTHER EMISSIONS TO THE ATMOSPHERE WHICH EXCEED LOCAL, STATE OR FEDERAL STANDARDS. ANY ACTIVITY POTENTIALLY RESULTING IN A DIRECT DISCHARGE TO STATE WATERS SHALL BE SUBJECT TO THE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY. NOISE LEVELS FROM EQUIPMENT AND CONSTRUCTION RELATED ACTIVITIES SHALL CONFORM TO FEDERAL, STATE, AND JURISDICTIONAL AGENCY REQUIREMENTS.
3. THE CONTRACTOR SHALL CALL 811 A MINIMUM OF THREE BUSINESS DAYS PRIOR TO THE START OF ANY EXCAVATION.
4. THE CONTRACTOR SHALL FIELD-VERIFY EXISTING CONDITIONS, INCLUDING PERFORMING UTILITY POTHOLING IF NECESSARY, AND COORDINATE ANY NECESSARY ADJUSTMENTS TO PREVIOUSLY APPROVED WORK (AS IDENTIFIED IN THE RIGHT-OF-WAY PERMIT) WITH THE DISTRICT PRIOR TO COMMENCING WORK ON TEMPORARY OR PERMANENT PROJECT IMPROVEMENTS.
5. THE CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING AND NEW IMPROVEMENTS NOT DESIGNATED FOR REMOVAL OR REPLACEMENT FROM DISPLACEMENT OR DAMAGE. THE CONTRACTOR SHALL COORDINATE WITH AND (IF NECESSARY) COMPENSATE THE OWNERS OF THE AFFECTED IMPROVEMENT(S) TO STABILIZE, PRESERVE, PROTECT AND/OR REPLACE SUCH IMPROVEMENT(S).
6. DRIVEWAY ACCESS: DRIVEWAY ACCESS TO PARCELS SHALL BE MAINTAINED AT ALL TIMES EXCEPT DURING ACTIVE TRENCHING, WATER OR SEWER FACILITY REMOVAL AND/OR PLACEMENT, TRENCH BACKFILL, SURFACING AND/OR PAVING AT, OR IN THE IMMEDIATE VICINITY OF THE RESPECTIVE DRIVEWAY LOCATION(S). PRIOR TO THE END OF EACH WORKDAY, THE CONTRACTOR SHALL INSTALL ANCHORED TEMPORARY STEEL PLATES (WITH NON-SKID SURFACE AND COLD MIX ASPHALT AROUND THE EDGES) OR TEMPORARY PAVEMENT ACROSS ANY TRENCH SECTION CROSSING A DRIVEWAY THAT HAS NOT BEEN RESTORED TO FINISH GRADE. THE TEMPORARY STEEL PLATES, TEMPORARY PAVEMENT AND/OR COMPLETED TRENCH SECTION SHALL EXTEND THE FULL WIDTH OF THE DRIVEWAY AND PROVIDE FOR SAFE TRAFFIC MOVEMENT. THE CONTRACTOR SHALL COORDINATE ANY DRIVEWAY CLOSURES WITH LWSD AND THE RESPECTIVE PROPERTY OWNER(S) A MINIMUM OF 48-HOURS PRIOR TO THE SCHEDULED CLOSURE.
7. ALL TRENCH BACKFILL SHALL BE COMPACTED TO 95% OF RELATIVE DENSITY, OR GREATER, IF SO SHOWN ON THE PLANS OR OTHERWISE REQUIRED BY THE RIGHT-OF-WAY AGENCY HAVING JURISDICTION, FROM THE BOTTOM OF THE EXCAVATION TO THE SURFACE.
8. REFER TO DISTRICT MAP TO DETERMINE THE AGENCY HAVING JURISDICTION OVER DESIGN AND CONSTRUCTION REQUIREMENTS.
9. FOR WORK PERFORMED IN PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH THE REQUIREMENTS INCLUDING NOTIFICATIONS, SITE MANAGEMENT, AND RESTORATION AS REQUIRED BY THE RIGHT-OF-WAY JURISDICTION, AND TO RESTORE, IF IMPACTED, PRIVATE PROPERTY.
10. THE CONTRACTOR SHALL ADHERE TO APPROVED TRAFFIC CONTROL PLANS AND ALLOWABLE HOURS OF WORK.
11. THE CONTRACTOR SHALL COORDINATE ACTIVITIES SO THAT ALL MAIL DELIVERY, GARBAGE/RECYCLING PICKUP, AND ALL BUS ROUTES WILL NOT BE IMPEDED AND ACCESS WILL BE CONTINUOUS THROUGH CONSTRUCTION.
12. ASBESTOS CEMENT PIPE REMOVAL WORK SHALL BE PERFORMED BY AN ASBESTOS ABATEMENT CONTRACTOR CERTIFIED BY L&I. ASBESTOS CEMENT PIPE CUTTING SHALL BE PERFORMED WITH A SHELL CUTTER.

Lakehaven WATER & SEWER DISTRICT

CONSTRUCTION GENERAL NOTES

NOT TO SCALE | STD. PLAN NO. **0000** | MAY 2024

NTS
CONSTRUCTION GENERAL NOTES - STD PLAN NO. 0000 1

LAKEHAVEN WATER AND SEWER DISTRICT
WATER GENERAL CONSTRUCTION NOTES:

1. WATER MAINS AND HYDRANT LATERALS SHALL BE DUCTILE IRON PIPE, SPECIAL THICKNESS CLASS 52. RESTRAINED JOINTS SHALL BE INSTALLED ON ALL HYDRANT LATERALS IN ACCORDANCE WITH STANDARD PLAN 1100 AND ON WATER MAINS WHERE NOTED IN THE PLANS.
2. RESTRAINED JOINTS SHALL BE OF TYPE AND MANUFACTURE AS SPECIFIED IN THE LWSD DESIGN AND CONSTRUCTION STANDARDS. INSTALLATION OF EACH RESTRAINED JOINT SHALL BE PERFORMED IN THE PRESENCE OF LWSD INSPECTORS. LWSD INSPECTORS MAY ELECT TO FIELD MARK EACH SUCH OBSERVED COMPLETED RESTRAINED JOINT.
3. FITTINGS FOR WATER MAINS SHALL BE DUCTILE IRON PRESSURE CLASS 350 FOR PLAIN-END, PUSH-ON, MECHANICAL OR FLANGE JOINTS. ALL FITTINGS CONNECTING TO NEW WATER MAINS SHALL HAVE RESTRAINED JOINTS EXCEPT WHERE NOTED ON THE PLANS OR AS DIRECTED BY THE DISTRICT.
4. WATER MAIN CONNECTIONS AT COUPLINGS AND FITTINGS SHALL ALIGN WITHOUT DEFLECTION. DEFLECTION AT ALL OTHER CONNECTIONS SHALL NOT EXCEED THREE (3)-DEGREES, OR HALF OF THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION, WHICHEVER IS LESS.
5. DISRUPTION OF WATER SERVICE. ANY PROPOSED WATER SERVICE DISRUPTION IS SUBJECT TO THE ADVANCE REVIEW OF, AND CONDITIONS AS MAY BE IMPOSED BY LWSD, AND SHALL BE CONTROLLED BY AUTHORIZED LWSD PERSONNEL TO MINIMIZE SERVICE DISRUPTION AND ENSURE WATER SYSTEM INTEGRITY. VALVE OPERATION ON ACTIVE (CHARGED) WATER MAIN(S) SHALL BE BY AUTHORIZED LWSD PERSONNEL ONLY.

   FOR SINGLE FAMILY RESIDENTIAL AND IRRIGATION SERVICE CONNECTIONS:

   - THE CONTRACTOR SHALL COORDINATE AND CONFIRM WITH THE DISTRICT A MINIMUM OF 48-HOURS (2 BUSINESS DAYS) IN ADVANCE OF ANY ANTICIPATED WATER SERVICE DISRUPTION LESS THAN 4-HOURS DURING A CALENDAR DAY OR 24-HOUR PERIOD, AND PREPARE AND HAND-DELIVER LWSD-FURNISHED NOTIFICATION FORMS TO EACH AFFECTED WATER SYSTEM CUSTOMER A MINIMUM OF 24-HOURS PRIOR TO SUCH DISRUPTION AS MAY BE AUTHORIZED BY LWSD.
   - THE CONTRACTOR SHALL COORDINATE AND CONFIRM WITH THE ENGINEER A MINIMUM OF 72-HOURS (3 BUSINESS DAYS) IN ADVANCE OF ANY ANTICIPATED WATER SERVICE DISRUPTION EXCEEDING 4-HOURS AND NOT EXCEEDING 8-HOURS DURING A CALENDAR DAY OR 24-HOUR PERIOD, AND PREPARE AND HAND-DELIVER LWSD-FURNISHED NOTIFICATION FORMS TO EACH AFFECTED WATER SYSTEM CUSTOMER A MINIMUM OF 48-HOURS PRIOR TO SUCH DISRUPTION AS MAY BE AUTHORIZED BY LWSD.

   FOR PROPOSED WATER SERVICE DISRUPTIONS AFFECTING WATER SERVICE CUSTOMERS THAT DO NOT MEET THE ABOVE CRITERIA, THE CONTRACTOR SHALL SUBMIT A PROPOSED PLAN FOR PROVIDING TEMPORARY WATER SERVICE AND/OR CONSTRUCTION SEQUENCING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY WATER SERVICE AND SEQUENCING, WHICH MAY INCLUDE NIGHT WORK.
6. WATER FACILITIES IDENTIFIED FOR REMOVAL OR IN CONFLICT WITH NEW FACILITIES SHALL BE REMOVED AND DISPOSED, OR REMOVED, SALVAGED, AND DELIVERED TO LWSD AS NOTED ON THE PLANS OR STATED IN THE CONSTRUCTION CONTRACT. WORK IN THE VICINITY OF AND/OR INVOLVING ASBESTOS CEMENT PIPE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL, STATE AND FEDERAL RULES AND REGULATIONS, INCLUDING WORKER EXPOSURE LIMITS PRESCRIBED IN WAC 296-62-07705, AND THE NOTIFICATION, PERMITTING, OFFSITE DISPOSAL AND REPORTING REQUIREMENTS.
7. PRESUMED SOIL BEARING STRENGTH FOR THRUST BLOCKS IS 2,000 PSF IN THE ABSENCE OF SOIL ANALYSIS SUBMITTED TO AND APPROVED BY LWSD FROM A LICENSED GEOTECHNICAL ENGINEER.
8. PROVIDE A MINIMUM COVER OF 36" FOR 8" AND SMALLER WATER MAINS, AND 48" (OR 12" TO TOP OF NUT, WHICHEVER IS GREATER) FOR 10" TO 16" WATER MAINS, EXCEPT AT TRANSITIONS TO MATCH EXISTING WATER MAINS OR FOR OTHER SITE CONSTRAINTS REVIEWED AND APPROVED BY THE DISTRICT. COVER SHALL BE CONSIDERED FROM TOP OF PIPE TO FINISHED GRADE. SEE STANDARD PLAN 1000 FOR WATER MAIN TRENCHING, BEDDING AND BACKFILL DETAIL.

Lakehaven WATER & SEWER DISTRICT

WATER UTILITY GENERAL CONSTRUCTION NOTES
1 OF 2

NOT TO SCALE | STD. PLAN NO. **0100.1** | MAY 2024

LAKEHAVEN WATER AND SEWER DISTRICT
WATER GENERAL CONSTRUCTION NOTES (continued):

9. WATER MAINS SHALL BE LOCATED ABOVE ALL UNDERGROUND UTILITIES WHERE FEASIBLE. THE MINIMUM VERTICAL CLEARANCE BETWEEN THE WATER MAIN AND NON-POTABLE CONVEYANCE SYSTEMS SHALL BE 18" (SEE "WASHINGTON STATE DEPARTMENT OF HEALTH WATER SYSTEM DESIGN MANUAL" SECTION 6.3.4 FOR DEFINITIONS OF NON-POTABLE CONVEYANCE SYSTEMS). IF LWSD DETERMINES 18" MINIMUM CLEARANCE CANNOT BE OBTAINED, THE WATER MAIN SHALL BE PROTECTED AS DEFINED IN THE WASHINGTON STATE DEPARTMENT OF ECOLOGY PIPELINE SEPARATION DESIGN AND INSTALLATION REFERENCE GUIDE (LATEST EDITION) OR AS SUPERSEDED BY LWSD DESIGN AND CONSTRUCTION STANDARDS.
10. THE MINIMUM VERTICAL CLEARANCE BETWEEN WATER MAIN AND ALL UNDERGROUND UTILITIES NOT DEFINED AS NON-POTABLE CONVEYANCE SYSTEMS SHALL BE 18". IF LWSD DETERMINES THIS MINIMUM CLEARANCE CANNOT BE MET, A CLEARANCE OF AT LEAST 6" WILL BE ALLOWED PROVIDED EITHER A NEOPRENE PAD OR HIGH DENSITY POLYETHYLENE CLOSED-CELL FOAM PAD WITH A MINIMUM DENSITY OF 9.5 PCF (ETHAFOAM 900 OR APPROVED EQUAL) IS INSTALLED BETWEEN THE WATER MAIN AND THE CROSSING UTILITY.
11. VALVE BOX LIDS SHALL BE ADJUSTED IMMEDIATELY FOLLOWING COMPLETION OF THE SUBGRADE AND EACH SURFACING COURSE. ALL UTILITY COVERS THAT ARE LOCATED ON PROPOSED ASPHALT ROADWAYS SHALL BE TEMPORARILY PLACED AT SUBGRADE ELEVATION PRIOR TO PLACING CRUSHED SURFACING MATERIAL. CONTRACTOR SHALL ENSURE THAT ALL VALVE BOX COVERS AND LIDS ARE VISIBLE, AT GRADE, AND ACCESSIBLE TO LWSD AT ALL TIMES EXCEPT DURING GRADING AND SURFACING IN THE VICINITY OF THE VALVE.
12. ALL GATE VALVES SHALL BE INSTALLED PER LWSD STANDARD PLANS.
13. IF ANY PART OF THE COATING OR LINING OF A PIPE, FITTING, OR WATER APPURTENANCE IS DAMAGED, REPLACEMENT THEREOF SHALL BE MADE BY THE CONTRACTOR AT NO EXPENSE TO LWSD. REPAIR SHALL BE ALLOWED AT THE DISCRETION AND DIRECTION OF THE DISTRICT.

Lakehaven WATER & SEWER DISTRICT

WATER UTILITY GENERAL CONSTRUCTION NOTES
2 OF 2

NOT TO SCALE | STD. PLAN NO. **0100.2** | MAY 2024

NTS
WATER UTILITY GENERAL CONSTRUCTION NOTES - STD PLAN NO. 0100.1 AND 0100.2 3

NTS
NOT USED 4

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LPD engineering pllc
1932 First Ave
Suite 500
Seattle, WA 98101
p. 206.725.1211
f. 206.973.5344
www.lpdengineering.com

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #

**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com

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MARC J. SERINO
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER
7/15/25

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Issue

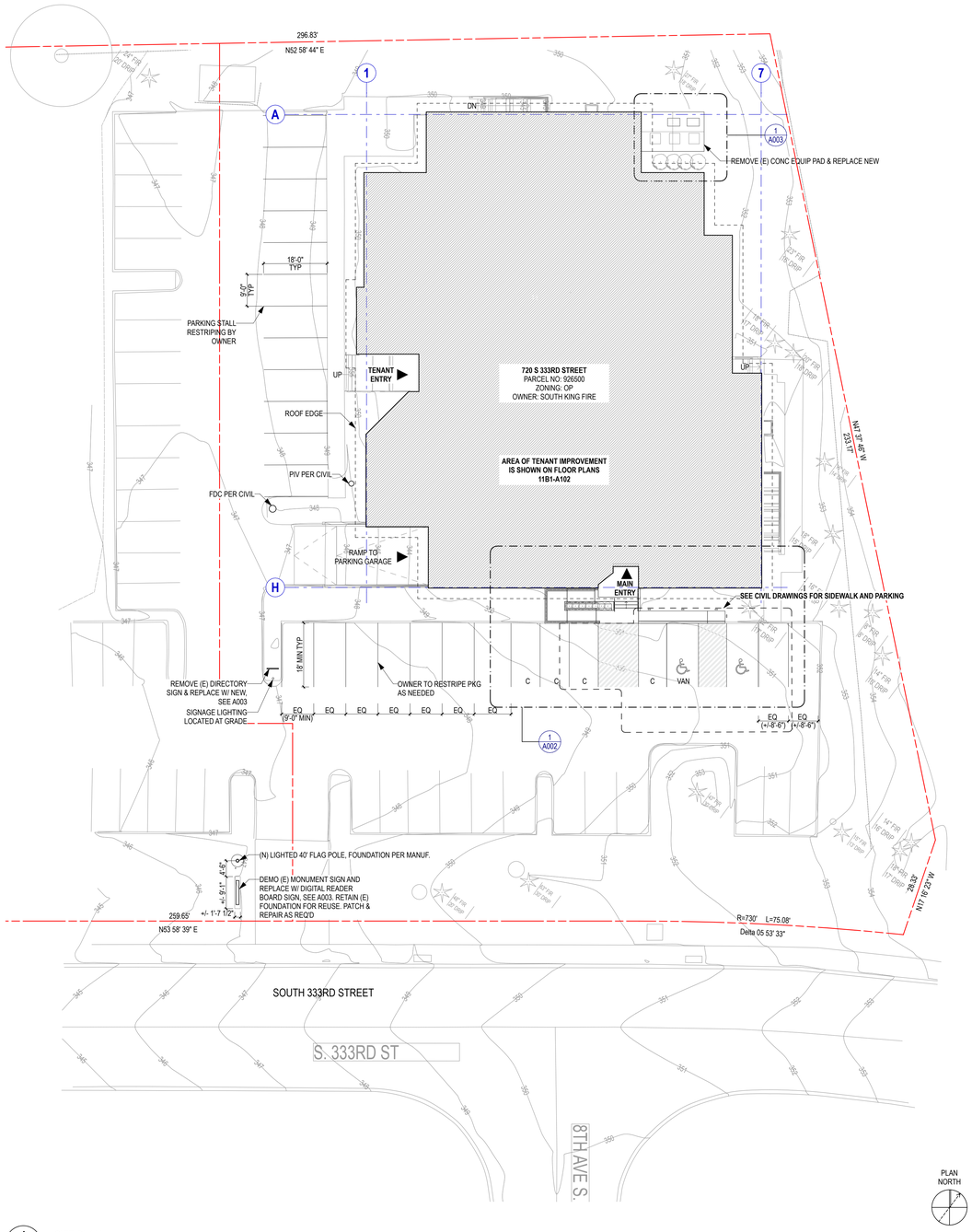
**07-18-2025**
Issue Date

WATER DETAILS
Sheet Title

C3.2

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Template version: WAU-AC27-MAIN Release date: 03/20/2024 Server Path: //Volumes/FileServer/Office/ProjectResources/5-Design/01-Archicad-27-Resources/01-AC27-Templates/WAU-AC27-MAIN.tpl




1 A001 **SITE PLAN**

SCALE: 1/16" = 1'-0"

## GENERAL SITE PLAN NOTES

1. ALL WORK IN THE RIGHT OF WAY SHOULD BE UNDER SEPARATE STREET IMPROVEMENT PERMIT
2. FOR LIST OF ABBREVIATIONS, SEE COVER SHEET **G001**
3. FOR PARCEL LEGAL DESCRIPTIONS, VICINITY MAP AND OWNER INFORMATION, REFER TO **G001**
4. FOR LAND USE INFORMATION, REFER TO **G001**

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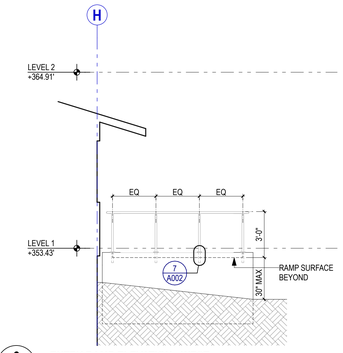
**BID SET**
Issue

**07/18/25**
Issue Date

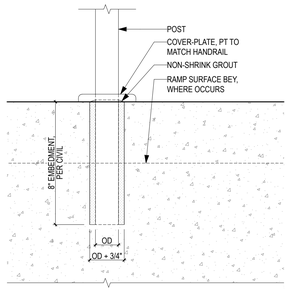
**SITE PLAN**
Sheet Title

**A001**

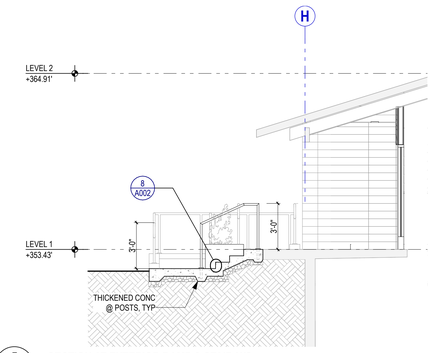
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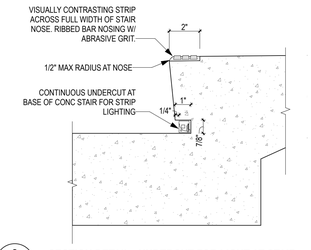

**6 A002 ENTRY RAMP ELEVATION - WEST**
SCALE: 1/4" = 1'-0"



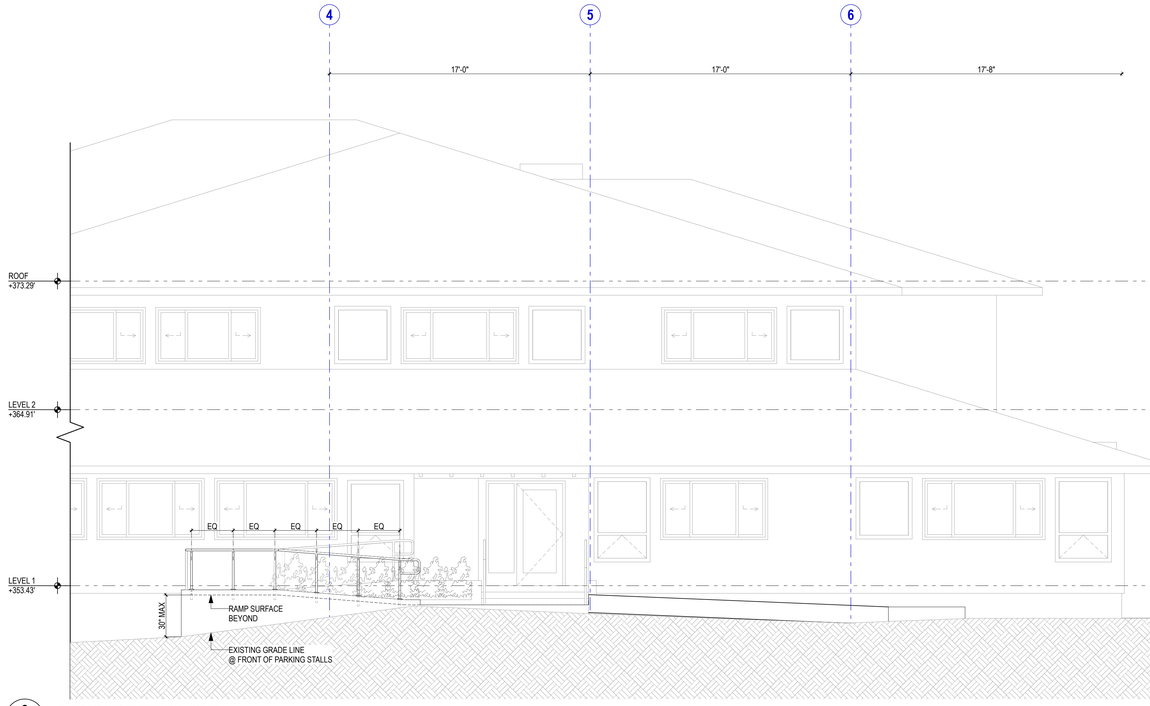

**7 A002 HANDRAIL AT ENTRY RAMP - SECTION DETAIL**
SCALE: 3" = 1'-0"



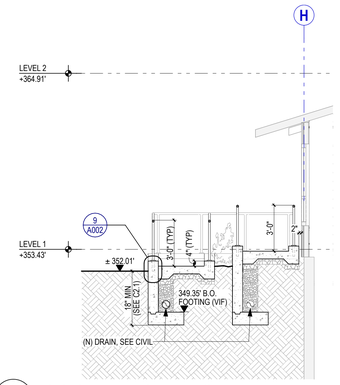

**5 A002 SECTION AT EXTERIOR RAMP & STAIR N/S**
SCALE: 1/4" = 1'-0"



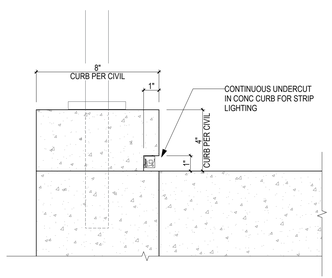

**8 A002 SECTION DETAIL - UNDERCUT FOR LIGHT AT STAIR**
SCALE: 3" = 1'-0"



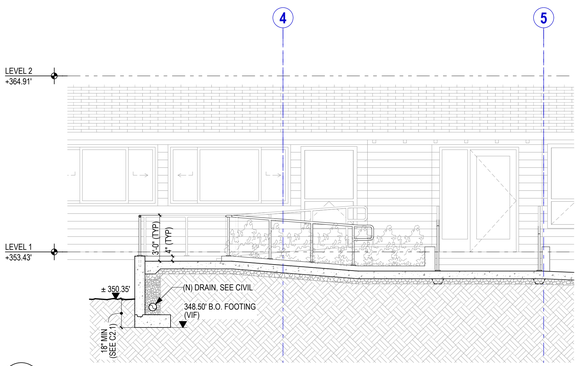

**2 A002 ENTRY RAMP ELEVATION - SOUTH**
SCALE: 1/4" = 1'-0"



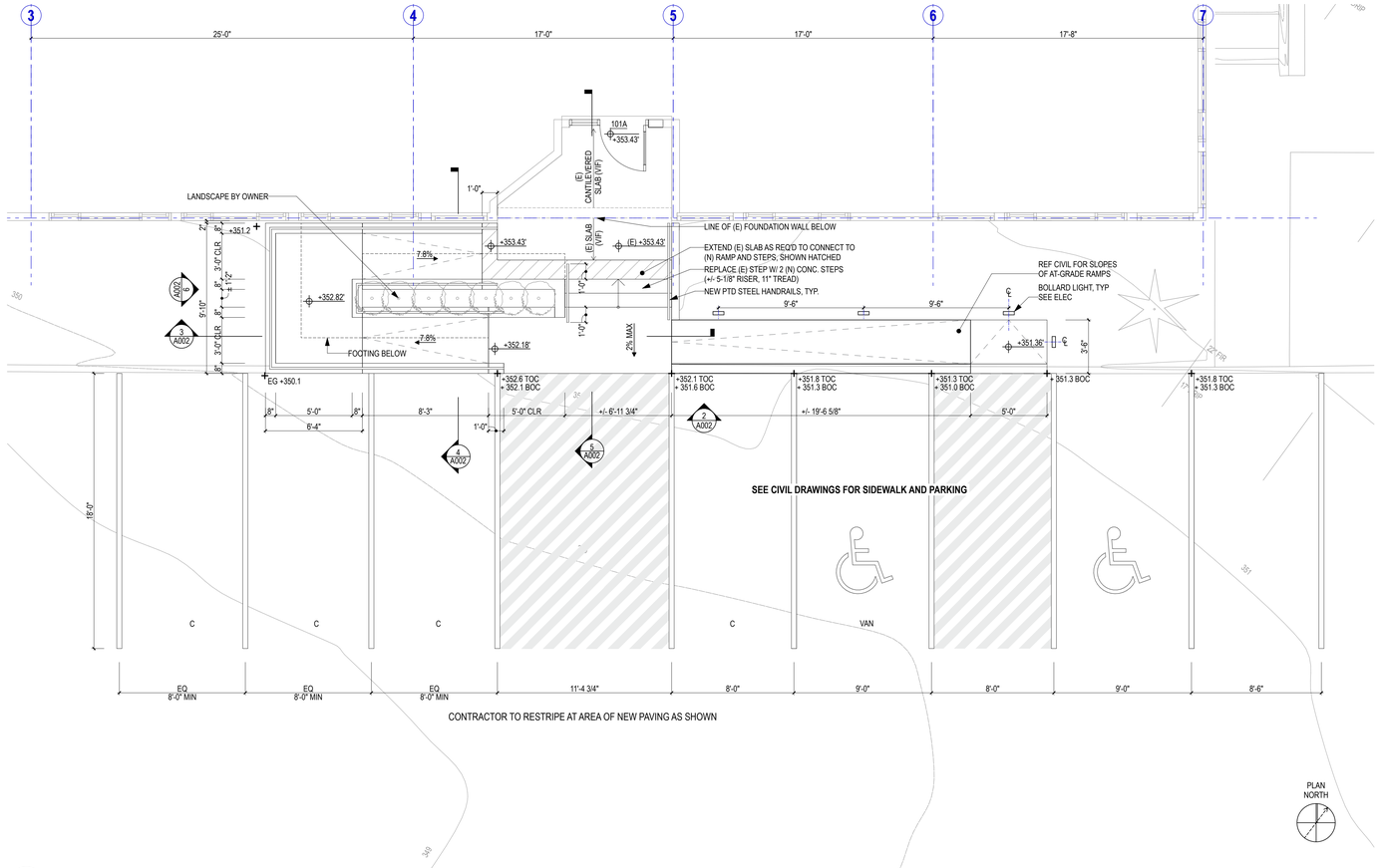

**4 A002 SECTION AT EXTERIOR RAMP N/S**
SCALE: 1/4" = 1'-0"




**9 A002 SECTION DETAIL - UNDERCUT FOR LIGHT AT RAMP**
SCALE: 3" = 1'-0"




**3 A002 SECTION AT EXTERIOR RAMP E/W**
SCALE: 1/4" = 1'-0"




**1 A002 ENTRY RAMP PLAN**
SCALE: 1/4" = 1'-0"

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2200 Western Avenue, Suite 301
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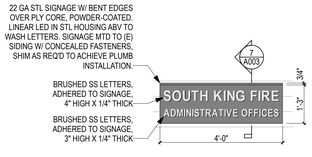
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Issue

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**ENTRY RAMP**
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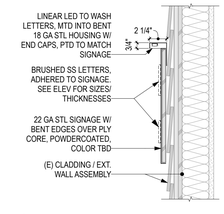
**A002**

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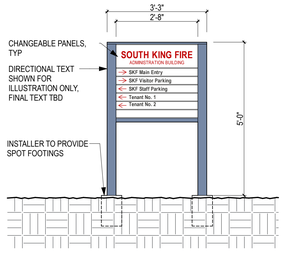

**12 A003** MAIN ENTRY SIGNAGE

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



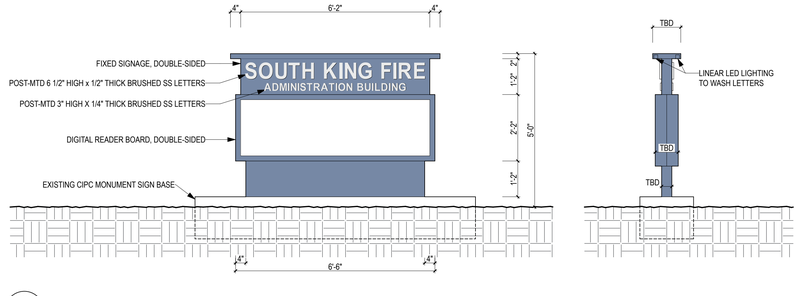

**7 A003** MAIN ENTRY SIGN

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



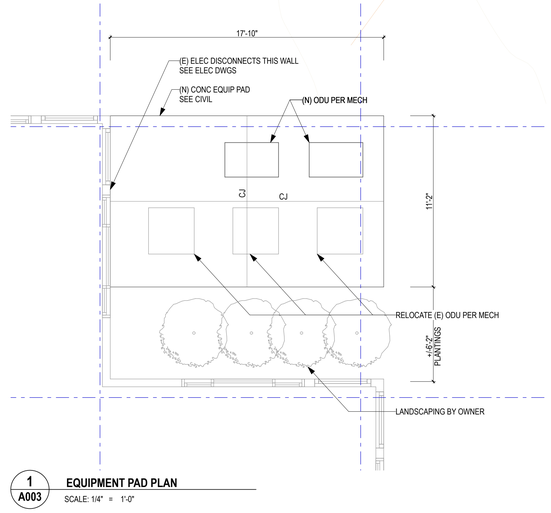

**11 A003** POST-MTD DIRECTIONAL SIGN

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




**6 A003** PEDESTAL SIGN

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




**1 A003** EQUIPMENT PAD PLAN

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

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**A003**

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1 AD1B1 **DEMOLITION PLAN - GARAGE**

SCALE: 3/16" = 1'-0"

## DEMOLITION PLAN NOTES

1. EXISTING CONDITIONS AT THE START OF WORK MAY DIFFER FROM THOSE SHOWN HERE
2. GRID LINES ARE FOR ORIENTATION ONLY. EXISTING COLUMNS MAY NOT ALIGN. EXISTING CONDITIONS TO BE FIELD VERIFIED BY CONTRACTOR
3. DIMENSIONS ARE TO GRID LINES
   **FOM** - FACE OF MASONRY
   **FOC** - FACE OF CONCRETE or
   **FOS** - FACE OF STUD UNLESS NOTED AS "CLR" (CLEAR) OR "FIN" (FINISH)
4. FOR LIST OF ABBREVIATIONS SEE COVER SHEET **G001**

**DEMO** WALLS, DOORS, WINDOWS SHOWN DASHED

**EXISTING TO REMAIN** WALLS, DOORS, WINDOWS SHOWN GREY

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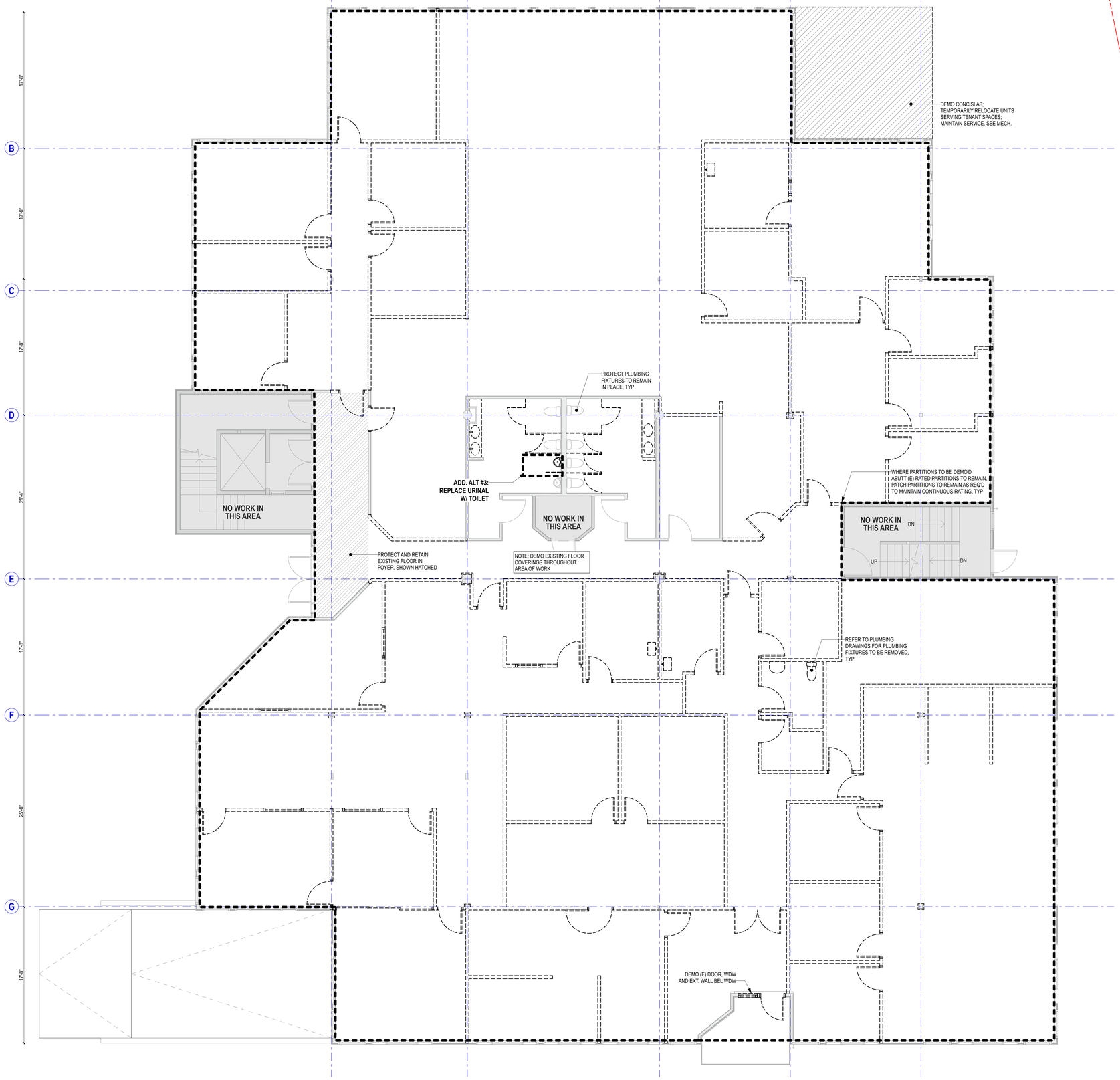
**07/18/25**
Issue Date

**DEMOLITION PLAN - GARAGE**
Sheet Title

**AD1B1**

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1 AD101 **DEMOLITION PLAN - LEVEL 1**
SCALE: 3/16" = 1'-0"

## DEMOLITION PLAN NOTES

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4. FOR LIST OF ABBREVIATIONS SEE COVER SHEET **G001**

**DEMO** WALLS, DOORS, WINDOWS SHOWN DASHED

**EXISTING TO REMAIN** WALLS, DOORS, WINDOWS SHOWN GREY

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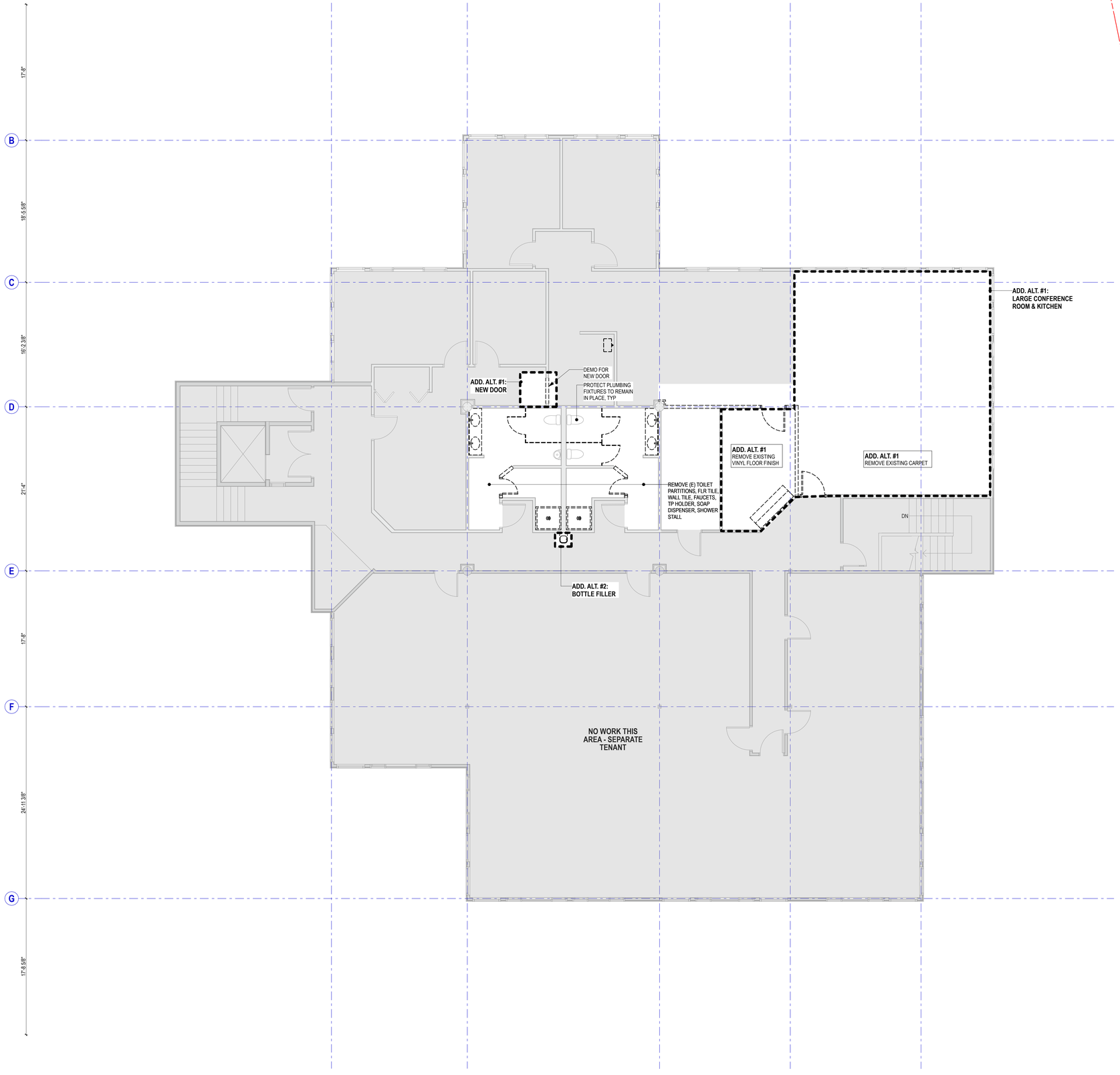
**07/18/25**
Issue Date

**DEMOLITION PLAN - LEVEL 1**
Sheet Title

**AD101**

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1 AD102 **DEMOLITION PLAN - LEVEL 2**
SCALE: 3/16" = 1'-0"

## DEMOLITION PLAN NOTES

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4. FOR LIST OF ABBREVIATIONS SEE COVER SHEET **G001**

**DEMO** WALLS, DOORS, WINDOWS SHOWN DASHED

**EXISTING TO REMAIN** WALLS, DOORS, WINDOWS SHOWN GREY

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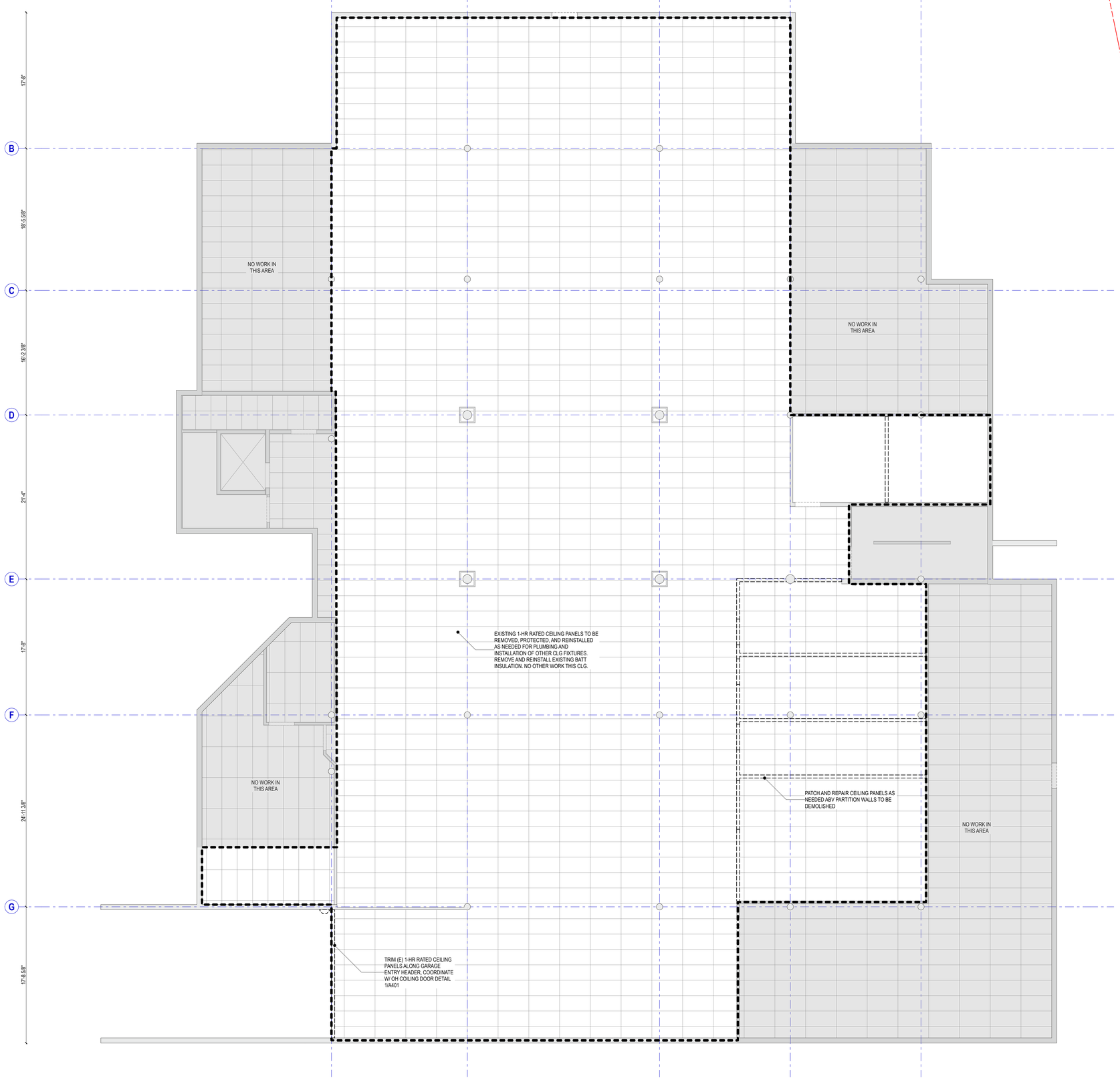
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Issue Date

**DEMOLITION PLAN - LEVEL 2**
Sheet Title

**AD102**

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1 AD2B1 **DEMOLITION RCP - GARAGE**
SCALE: 3/16" = 1'-0"

## DEMOLITION PLAN NOTES

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4. FOR LIST OF ABBREVIATIONS SEE COVER SHEET **G001**

**DEMO** WALLS, DOORS, WINDOWS SHOWN DASHED

**EXISTING TO REMAIN** WALLS, DOORS, WINDOWS SHOWN GREY

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State of Washington

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Issue

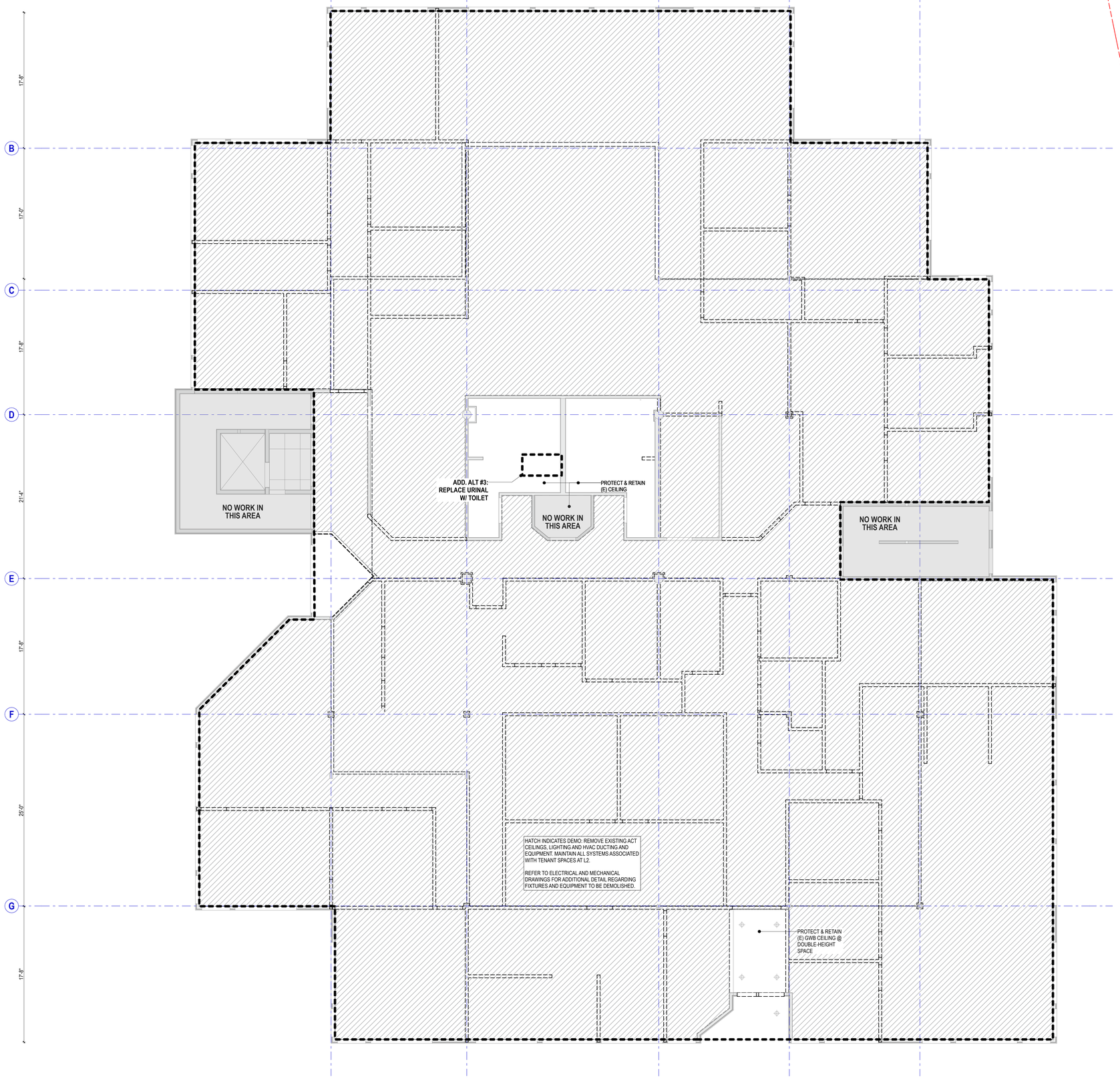
**07/18/25**
Issue Date

**DEMOLITION RCP - GARAGE**
Sheet Title

**AD2B1**

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1 AD201 **DEMOLITION RCP - LEVEL 1**
SCALE: 3/16" = 1'-0"

## DEMOLITION PLAN NOTES

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4. FOR LIST OF ABBREVIATIONS SEE COVER SHEET **G001**

**DEMO** WALLS, DOORS, WINDOWS SHOWN DASHED

**EXISTING TO REMAIN** WALLS, DOORS, WINDOWS SHOWN GREY

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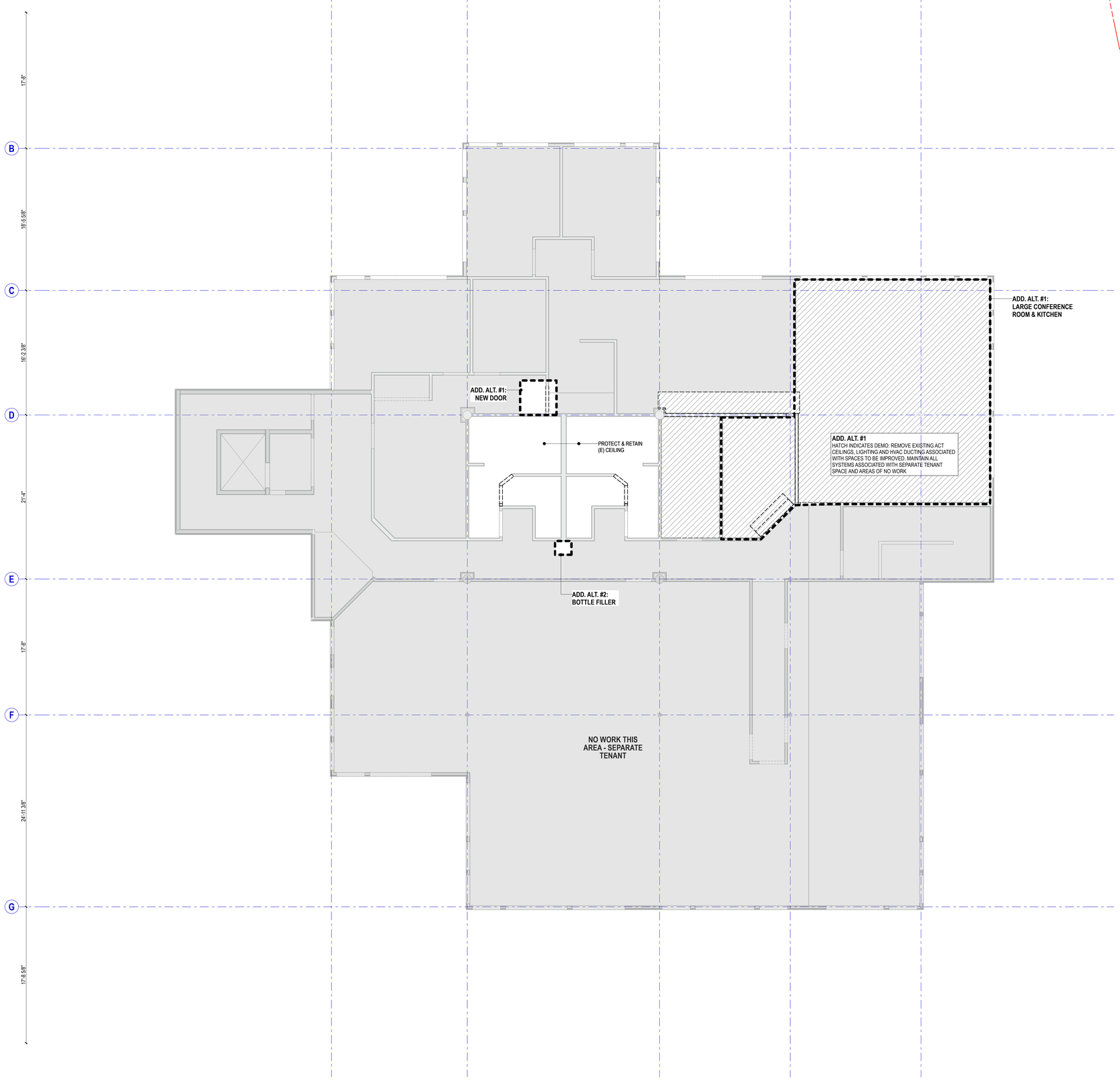
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**DEMOLITION RCP - LEVEL 1**
Sheet Title

**AD201**

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1 AD202 **DEMOLITION RCP - LEVEL 2**
SCALE: 3/16" = 1'-0"

## DEMOLITION PLAN NOTES

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4. FOR LIST OF ABBREVIATIONS SEE COVER SHEET **G001**

**DEMO** WALLS, DOORS, WINDOWS SHOWN DASHED

**EXISTING TO REMAIN** WALLS, DOORS, WINDOWS SHOWN GREY

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State of Washington

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Issue

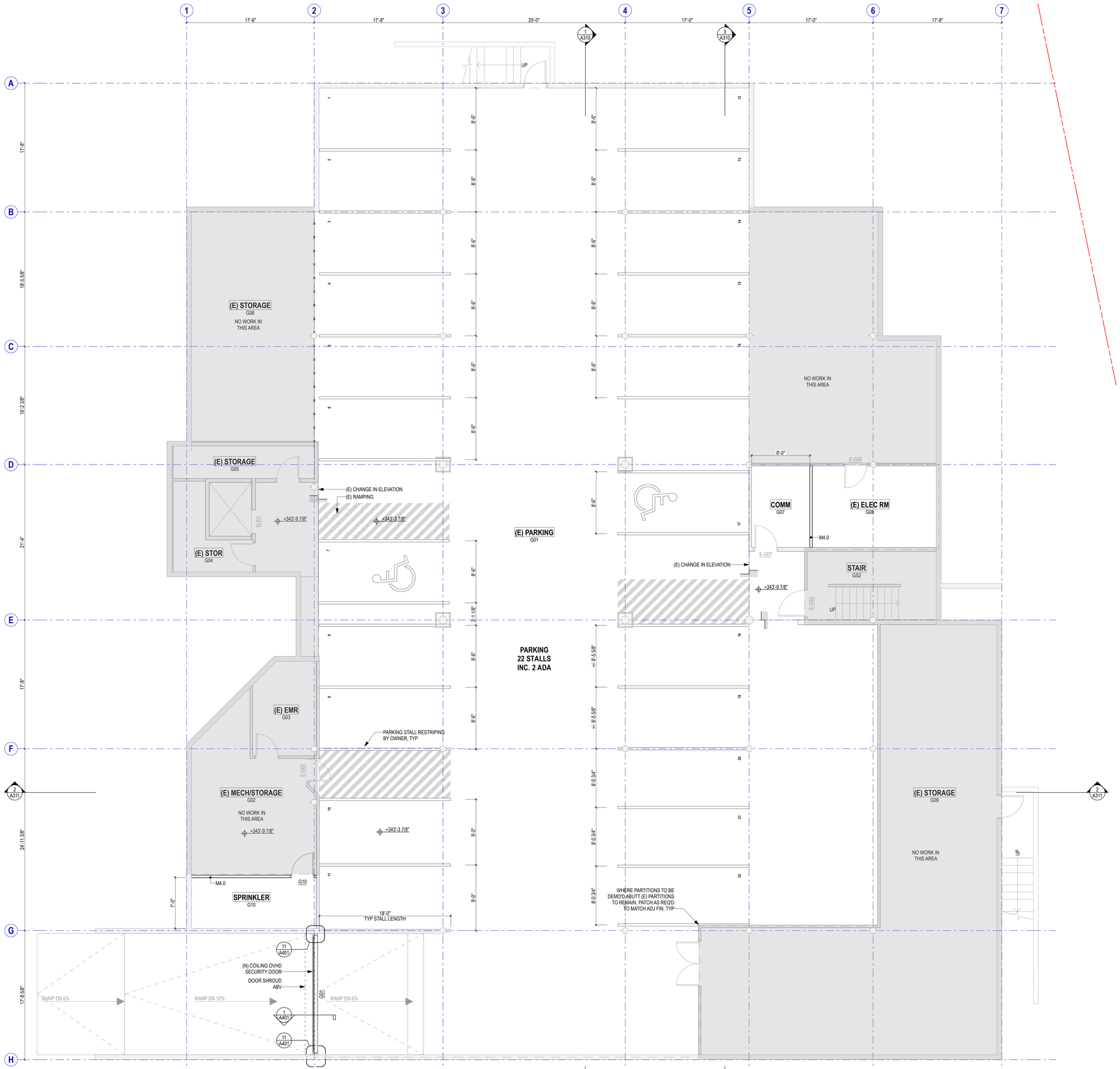
**07/18/25**
Issue Date

**DEMOLITION RCP - LEVEL 2**
Sheet Title

**AD202**

PLAN NORTH

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1 A1B1 **PROPOSED FLOOR PLAN - GARAGE**

SCALE: 3/16" = 1'-0"

PLAN NORTH

## GENERAL FLOOR PLAN NOTES

1. DIMENSIONS ARE TO:
   **FOF -** FACE OF FINISH (AT EXISTING WALLS)
   **FOC** - FACE OF CONCRETE or
   **FOS** - FACE OF STUD UNLESS NOTED AS "CLR" (CLEAR) OR "FIN" (FINISH)
2. FOR LIST OF ABBREVIATIONS SEE COVER SHEET **G001**
3. FOR INTERIOR VERTICAL ASSEMBLIES SEE SHEET **A701**
4. FOR INTERIOR HORIZONTAL ASSEMBLIES SEE SHEET **A702**
5. FOR DOOR SCHEDULE SEE SHEET **A901**
6. FOR STOREFRONT SCHEDULE SEE SHEET **A412**
7. EXISTING WALL LOCATIONS ARE APPROXIMATE. FIELD VERIFY.

## ASSEMBLY SYMBOL

W6A.0 (INTERIOR WALLS)

W6A.0
- FIRE RATING AS APPLICABLE
- ASSEMBLY KEY
- FRAMING SIZE
- FRAMING TYPE

## SCOPE OF WORK:

EXTENTS OF WORK

AREA OUTSIDE OF SCOPE OF WORK

| Rev | Date | Issue |
|---|---|---|

CONSULTANT'S LOGO

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #

**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
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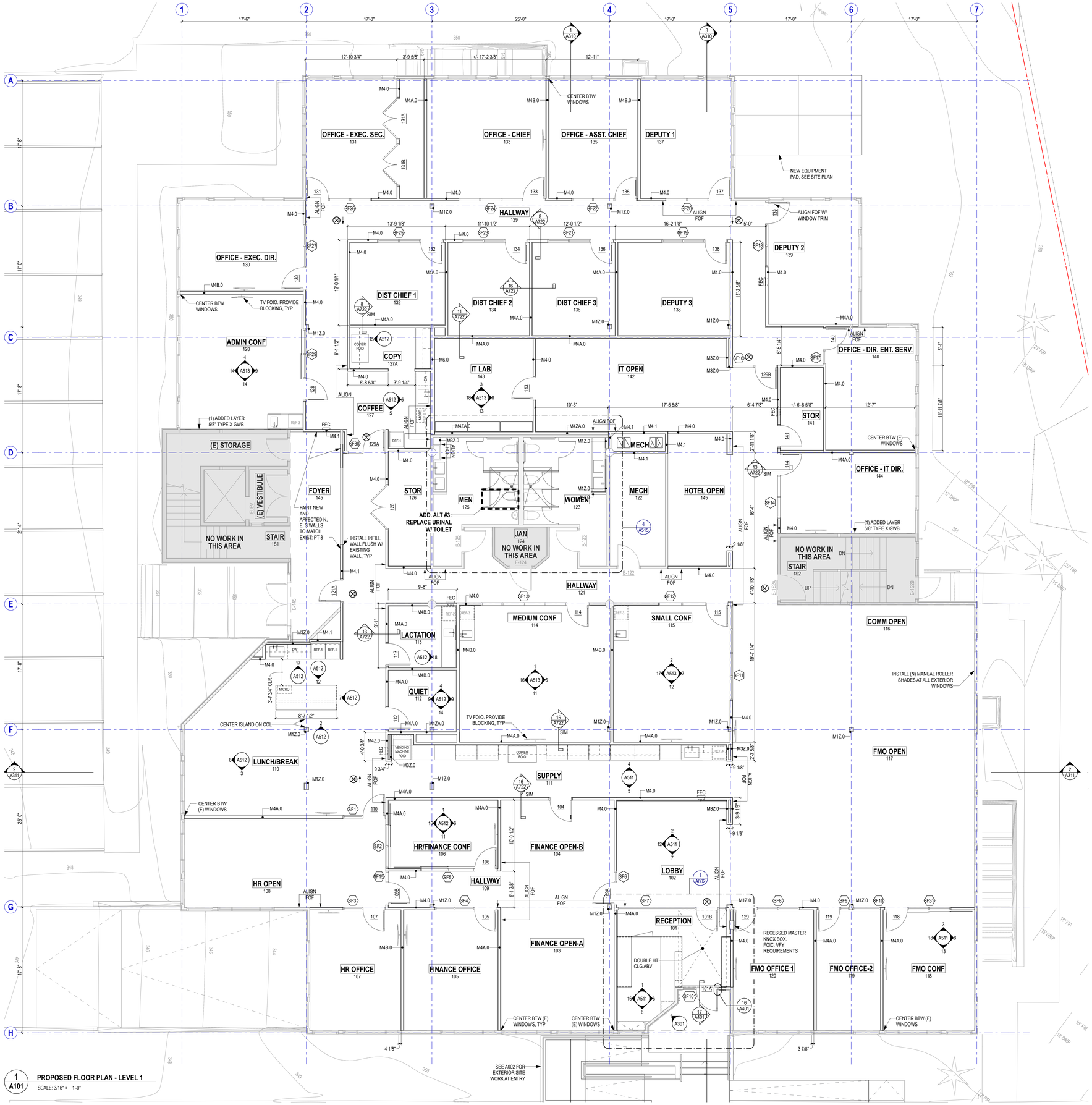
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Issue

**07/18/25**
Issue Date

**PROPOSED FLOOR PLAN - GARAGE**
Sheet Title

**A1B1**

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## GENERAL FLOOR PLAN NOTES

1. DIMENSIONS ARE TO:
   **FOF -** FACE OF FINISH (AT EXISTING WALLS)
   **FOC** - FACE OF CONCRETE or
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6. FOR STOREFRONT SCHEDULE SEE SHEET **A412**
7. EXISTING WALL LOCATIONS ARE APPROXIMATE. FIELD VERIFY.

## ASSEMBLY SYMBOL

W6A.0 (INTERIOR WALLS)

**W6A.0**
- FIRE RATING AS APPLICABLE
- ASSEMBLY KEY
- FRAMING SIZE
- FRAMING TYPE

## SCOPE OF WORK:

EXTENTS OF WORK

AREA OUTSIDE OF SCOPE OF WORK

| Rev | Date | Issue |
|---|---|---|

CONSULTANT'S LOGO

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Issue

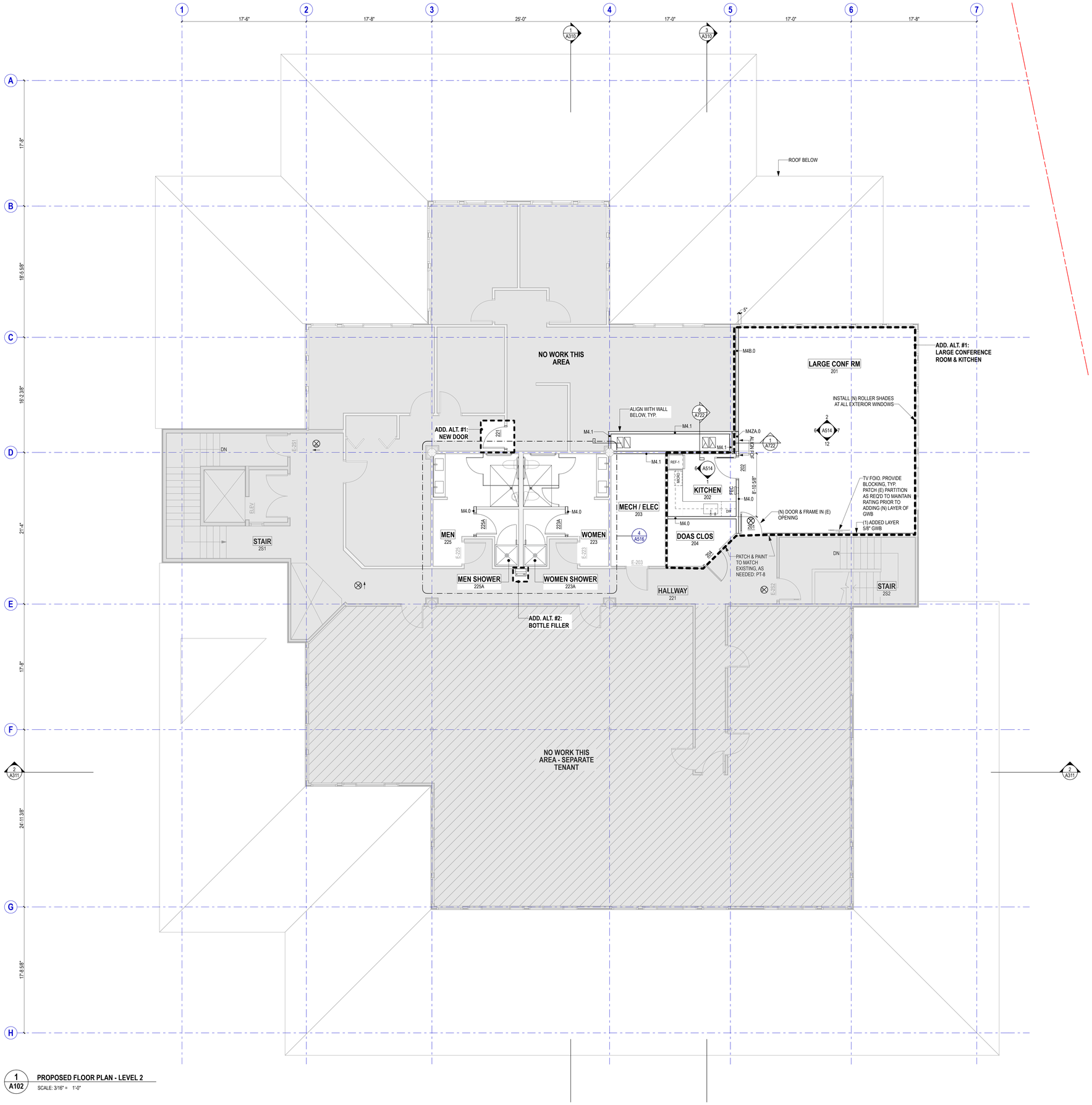
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**PROPOSED FLOOR PLAN - LEVEL 1**
Sheet Title

**A101**

PLAN NORTH

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1 A102 **PROPOSED FLOOR PLAN - LEVEL 2**
SCALE: 3/16" = 1'-0"

## GENERAL FLOOR PLAN NOTES

1. DIMENSIONS ARE TO:
   **FOF -** FACE OF FINISH (AT EXISTING WALLS)
   **FOC** - FACE OF CONCRETE or
   **FOS** - FACE OF STUD UNLESS NOTED AS "CLR" (CLEAR) OR "FIN" (FINISH)
2. FOR LIST OF ABBREVIATIONS SEE COVER SHEET **G001**
3. FOR INTERIOR VERTICAL ASSEMBLIES SEE SHEET **A701**
4. FOR INTERIOR HORIZONTAL ASSEMBLIES SEE SHEET **A702**
5. FOR DOOR SCHEDULE SEE SHEET **A901**
6. FOR STOREFRONT SCHEDULE SEE SHEET **A412**
7. EXISTING WALL LOCATIONS ARE APPROXIMATE. FIELD VERIFY.

## ASSEMBLY SYMBOL

W6A.0 (INTERIOR WALLS)

**W6A.0**
- FIRE RATING AS APPLICABLE
- ASSEMBLY KEY
- FRAMING SIZE
- FRAMING TYPE

## SCOPE OF WORK:

EXTENTS OF WORK

AREA OUTSIDE OF SCOPE OF WORK

| Rev | Date | Issue |
|---|---|---|

CONSULTANT'S LOGO

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

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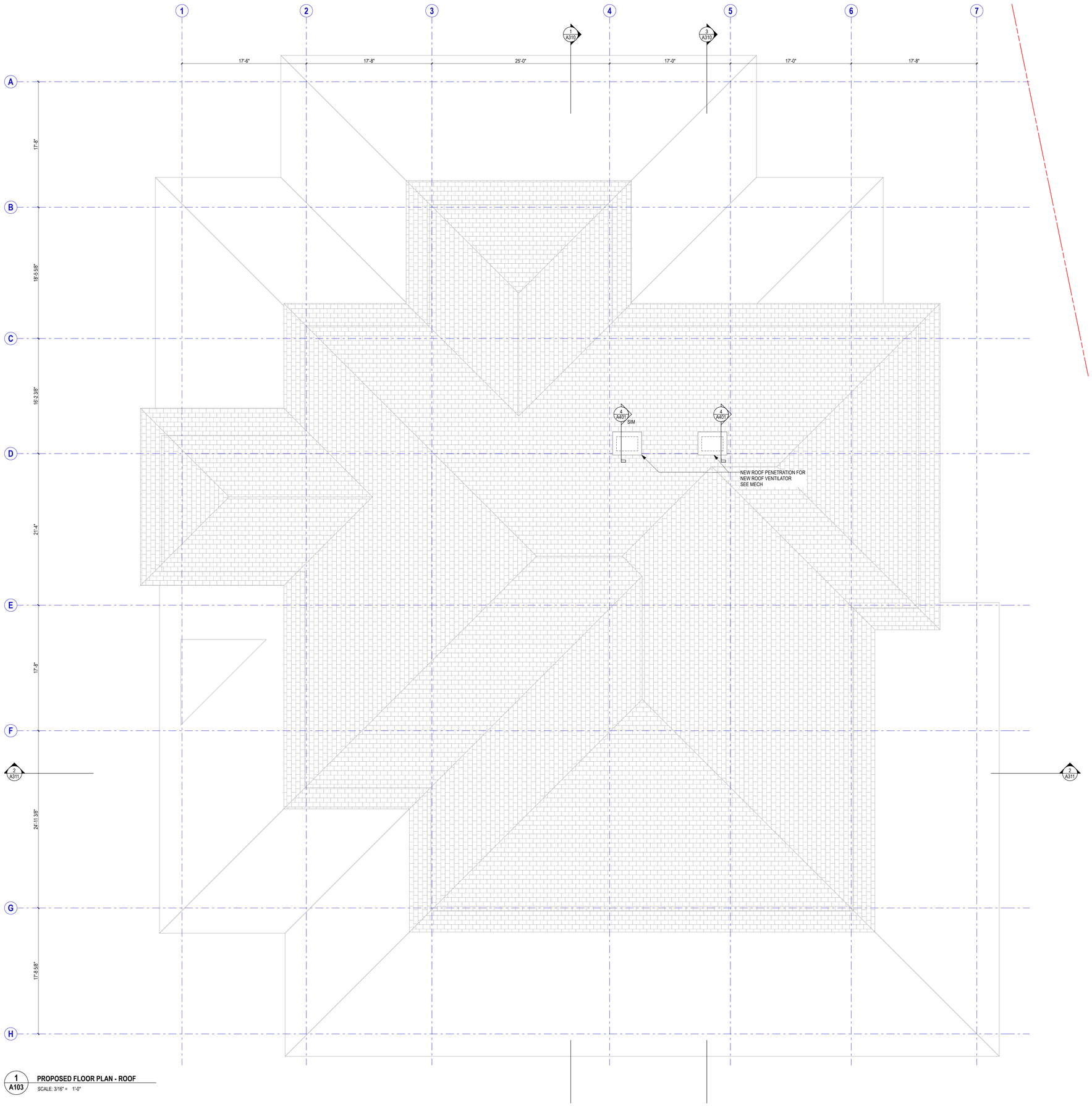
**07/18/25**
Issue Date

**PROPOSED FLOOR PLAN - LEVEL 2**
Sheet Title

**A102**

PLAN NORTH

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1 A103 **PROPOSED FLOOR PLAN - ROOF**
SCALE: 3/16" = 1'-0"

## GENERAL FLOOR PLAN NOTES

1. DIMENSIONS ARE TO:
   **FOF -** FACE OF FINISH (AT EXISTING WALLS)
   **FOC** - FACE OF CONCRETE or
   **FOS** - FACE OF STUD UNLESS NOTED AS "CLR" (CLEAR) OR "FIN" (FINISH)
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3. FOR INTERIOR VERTICAL ASSEMBLIES SEE SHEET **A701**
4. FOR INTERIOR HORIZONTAL ASSEMBLIES SEE SHEET **A702**
5. FOR DOOR SCHEDULE SEE SHEET **A901**
6. FOR STOREFRONT SCHEDULE SEE SHEET **A412**
7. EXISTING WALL LOCATIONS ARE APPROXIMATE. FIELD VERIFY.

## ASSEMBLY SYMBOL

W6A.0 (INTERIOR WALLS)

**W6A.0**

- FIRE RATING AS APPLICABLE
- ASSEMBLY KEY
- FRAMING SIZE
- FRAMING TYPE

## SCOPE OF WORK:

EXTENTS OF WORK

AREA OUTSIDE OF SCOPE OF WORK

| Rev | Date | Issue |
|---|---|---|

CONSULTANT'S LOGO

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

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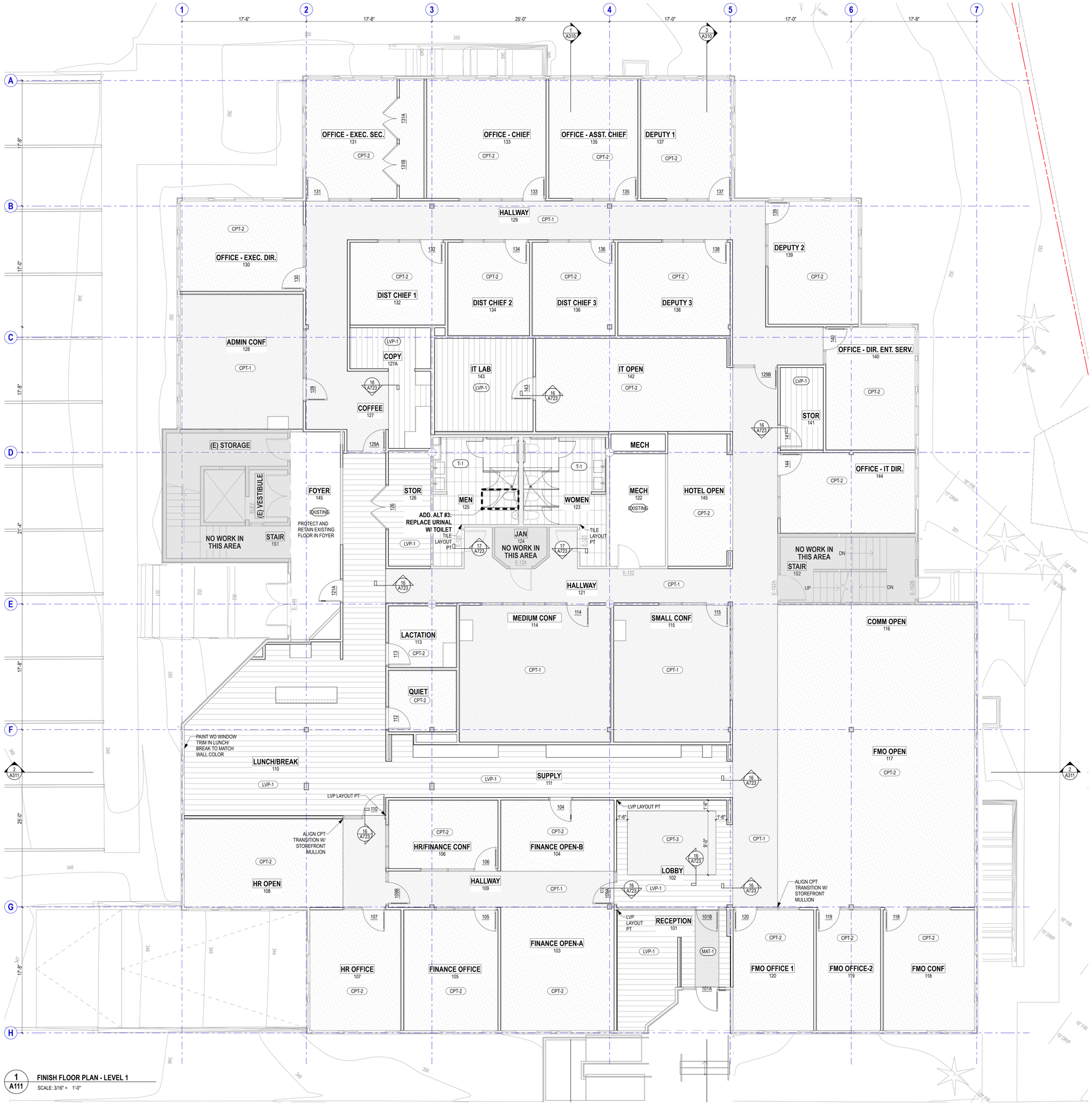
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Issue Date

**PROPOSED FLOOR PLAN - ROOF**
Sheet Title

**A103**

PLAN NORTH

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1 A111 **FINISH FLOOR PLAN - LEVEL 1**
SCALE: 3/16" = 1'-0"

## GENERAL FLOOR PLAN NOTES

1. DIMENSIONS ARE TO:
   **FOF -** FACE OF FINISH (AT EXISTING WALLS)
   **FOC -** FACE OF CONCRETE or
   **FOS -** FACE OF STUD UNLESS NOTED AS "CLR" (CLEAR) OR "FIN" (FINISH)
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5. FOR DOOR SCHEDULE SEE SHEET **A901**
6. FOR STOREFRONT SCHEDULE SEE SHEET **A412**
7. EXISTING WALL LOCATIONS ARE APPROXIMATE. FIELD VERIFY.

## ASSEMBLY SYMBOL

W6A.0 (INTERIOR WALLS)

W6A.0
- FIRE RATING AS APPLICABLE
- ASSEMBLY KEY
- FRAMING SIZE
- FRAMING TYPE

## SCOPE OF WORK:

EXTENTS OF WORK

AREA OUTSIDE OF SCOPE OF WORK

| Rev | Date | Issue |
|---|---|---|

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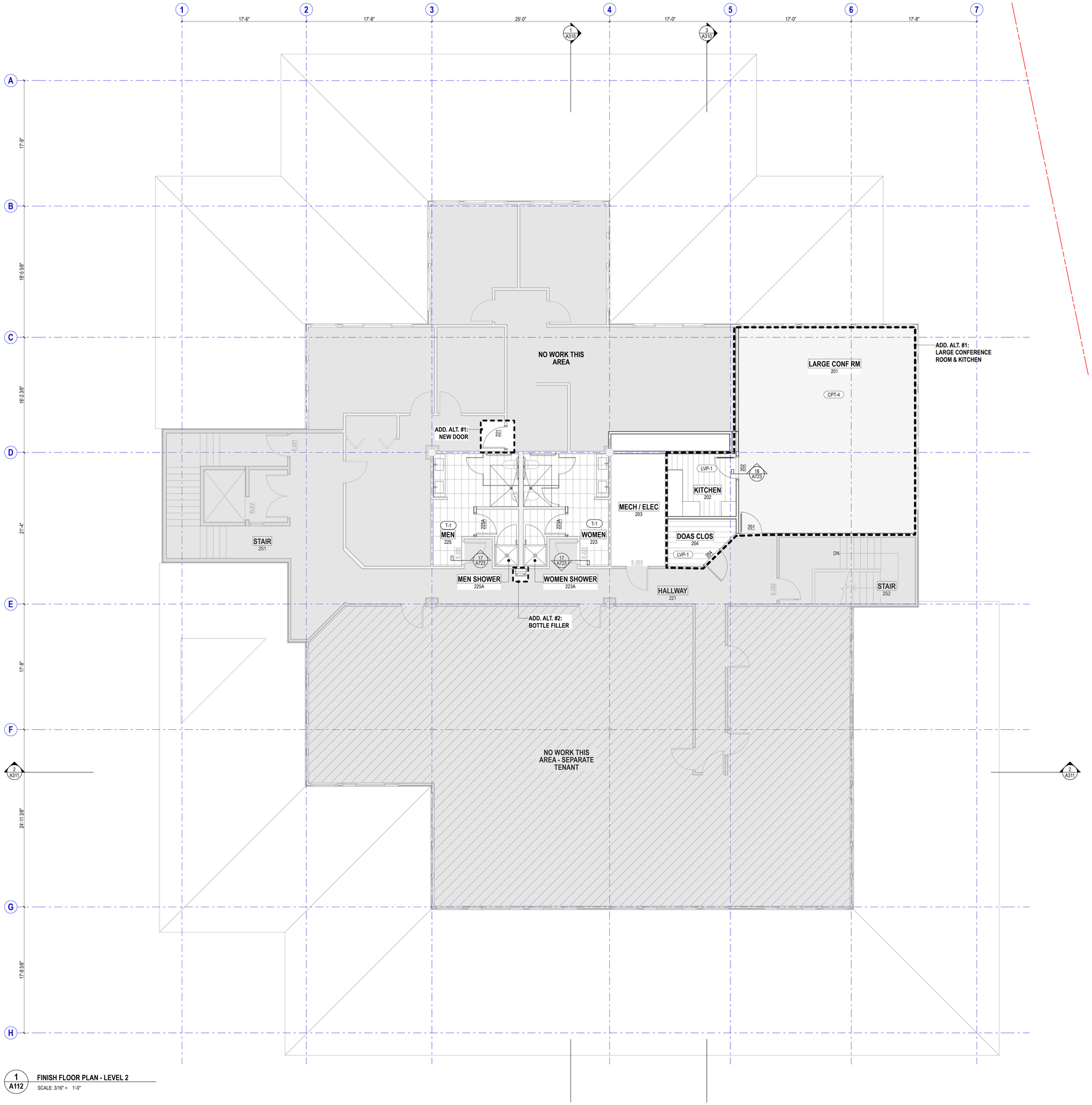
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Issue Date

**PROPOSED FLOOR FINISH PLAN - LEVEL 1**
Sheet Title

**A111**

PLAN NORTH

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1 A112 **FINISH FLOOR PLAN - LEVEL 2**
SCALE: 3/16" = 1'-0"

## GENERAL FLOOR PLAN NOTES

1. DIMENSIONS ARE TO:
   **FOF -** FACE OF FINISH (AT EXISTING WALLS)
   **FOC** - FACE OF CONCRETE or
   **FOS** - FACE OF STUD UNLESS NOTED AS "CLR" (CLEAR) OR "FIN" (FINISH)
2. FOR LIST OF ABBREVIATIONS SEE COVER SHEET **G001**
3. FOR INTERIOR VERTICAL ASSEMBLIES SEE SHEET **A701**
4. FOR INTERIOR HORIZONTAL ASSEMBLIES SEE SHEET **A702**
5. FOR DOOR SCHEDULE SEE SHEET **A901**
6. FOR STOREFRONT SCHEDULE SEE SHEET **A412**
7. EXISTING WALL LOCATIONS ARE APPROXIMATE. FIELD VERIFY.

## ASSEMBLY SYMBOL

W6A.0 (INTERIOR WALLS)

**W6A.0**
- FIRE RATING AS APPLICABLE
- ASSEMBLY KEY
- FRAMING SIZE
- FRAMING TYPE

## SCOPE OF WORK:

EXTENTS OF WORK

AREA OUTSIDE OF SCOPE OF WORK

| Rev | Date | Issue |
|---|---|---|

CONSULTANT'S LOGO

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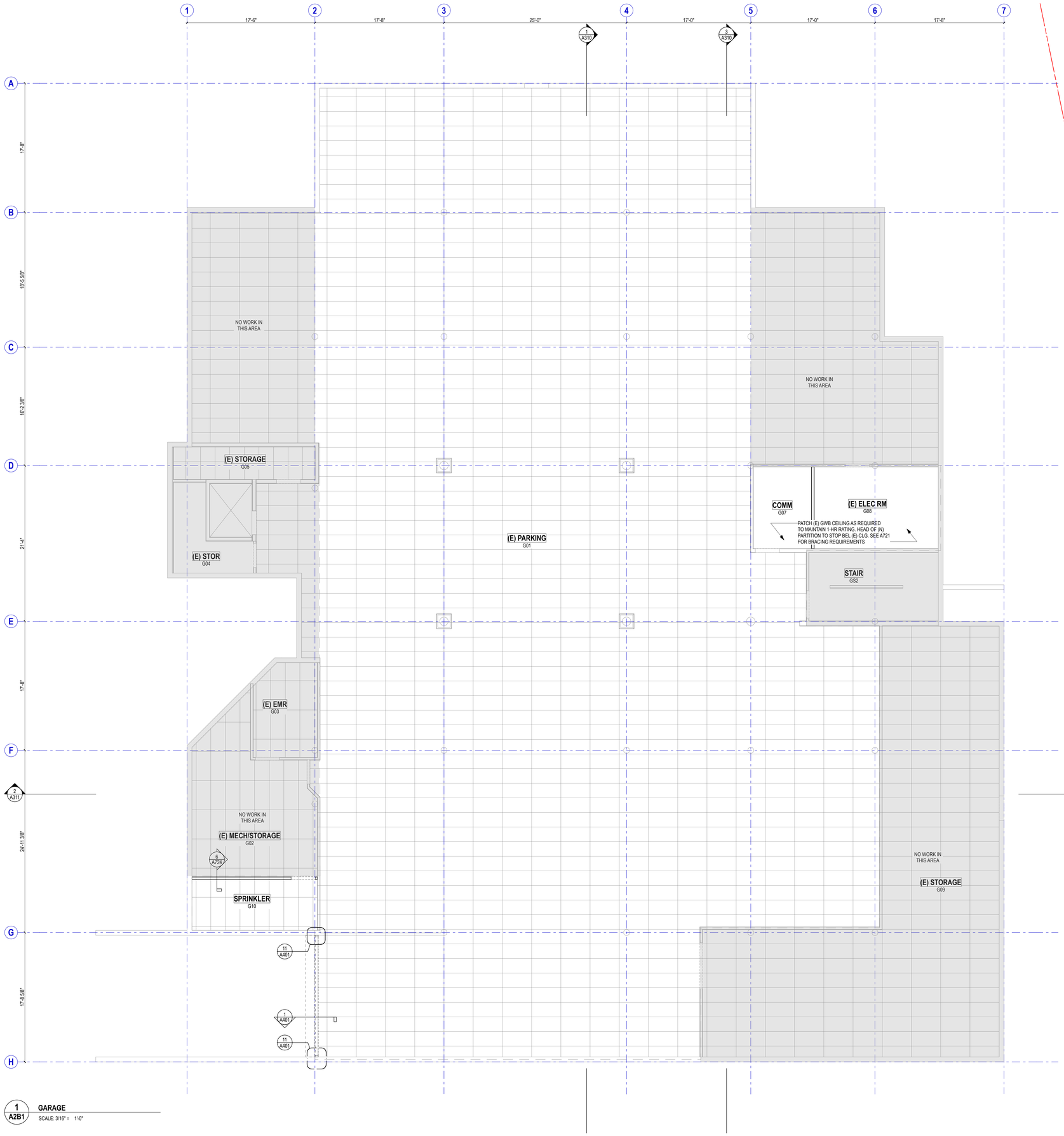
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Issue Date

**PROPOSED FLOOR FINISH PLAN - LEVEL 2**
Sheet Title

**A112**

PLAN NORTH

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1 A2B1 **GARAGE**
SCALE: 3/16" = 1'-0"

## RCP SYMBOL LEGEND

- DROP CEILING (TYP) REFER MARKER FOR HEIGHT / FINISH
- 24" x 48" CEILING TILE
- WOOD CEILING
- +8'-6" GWB — CEILING HEIGHT & FINISH MARKER

**LIGHTING**

- SURFACE MOUNTED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- PENDANT LIGHT
- INDIRECT FIXTURE (CEILING)
- INDIRECT FIXTURE (WALL)
- WALL MOUNTED LIGHT FIXTURE
- CEILING MOUNTED ILLUMINATED EXIT LIGHT (TWO WAY)
- WALL MOUNTED ILLUMINATED EXIT LIGHT (TWO WAY)
- ILLUMINATED EXIT LIGHT (LITE ONE SIDE)
- ILLUMINATED EXIT LIGHT (TWO WAY)
- P — PHOTO CELL
- OS — OCCUPANCY SENSOR
- VS — VACANCY SENSOR

**MECHANICAL**

- DIFFUSER - SUPPLY AIR
- DIFFUSER - RETURN AIR
- DIFFUSER - EXHAUST
- FAN
- T — THERMOSTAT

**FIRE**

- SP — SPRINKLER
- WALL SPRINKLER
- S — SMOKE DETECTOR
- STROBES
- COMBINED HORNS AND STROBES

**ELECTRICAL**

- J-BOX
- SPEAKER
- G — GAS SENSOR
- P — PHOTO CELL
- WAP — WIRELESS ACCESS POINT

## RCP GENERAL NOTES

1. ARCHITECTURAL RCP'S ONLY SHOW NEW LIGHT FIXTURES MOUNTED IN OR ON THE CEILING. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING
2. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING IN ALL ELECTRICAL, MECHANICAL AND STAIR SPACES
3. WHERE CL IS SHOWN WITHOUT DIMENSIONAL REFERENCE, ASSUME CENTER OF ROOM
4. WHERE ACOUSTIC TILE FIELD IS SURROUNDED BY GWB, CENTER WITHIN GENERAL ROOM AREA U.N.O.
5. WHERE LIGHT FIXTURE OR AIR DIFFUSER BAR LIES PARALLEL BETWEEN STEPS IN AN EXISTING OR NEW CEILING, CENTER FIXTURE BETWEEN STEPS U.N.O.
6. SEE DRAWINGS A724 FOR TYPICAL CEILING DETAILS. SEE A721 FOR TYPICAL SEISMIC BRACING
7. IN ACT CEILINGS, CENTER "FLOATING" LIGHTING FIXTURES WITHIN CEILING TILE RATHER THAN CENTER OF CEILING GRID, U.N.O.

## SCOPE OF WORK:

- EXTENTS OF WORK
- AREA OUTSIDE OF SCOPE OF WORK

| Rev | Date | Issue |
|---|---|---|

CONSULTANT'S LOGO

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

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Issue Date

**PROPOSED RCP - GARAGE**
Sheet Title

PLAN NORTH

**A2B1**

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1 A201 **LEVEL 1**
SCALE: 3/16" = 1'-0"

## RCP SYMBOL LEGEND

- DROP CEILING (TYP) REFER MARKER FOR HEIGHT / FINISH
- 24" x 48" CEILING TILE
- WOOD CEILING
- +8'-6" GWB — CEILING HEIGHT & FINISH MARKER

**LIGHTING**

- SURFACE MOUNTED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- PENDANT LIGHT
- INDIRECT FIXTURE (CEILING)
- INDIRECT FIXTURE (WALL)
- WALL MOUNTED LIGHT FIXTURE
- CEILING MOUNTED ILLUMINATED EXIT LIGHT (TWO WAY)
- WALL MOUNTED ILLUMINATED EXIT LIGHT (TWO WAY)
- ILLUMINATED EXIT LIGHT (LITE ONE SIDE)
- ILLUMINATED EXIT LIGHT (TWO WAY)
- P — PHOTO CELL
- OS — OCCUPANCY SENSOR
- VS — VACANCY SENSOR

**MECHANICAL**

- DIFFUSER - SUPPLY AIR
- DIFFUSER - RETURN AIR
- DIFFUSER - EXHAUST
- FAN
- T — THERMOSTAT

**FIRE**

- SP — SPRINKLER
- WALL SPRINKLER
- S — SMOKE DETECTOR
- STROBES
- COMBINED HORNS AND STROBES

**ELECTRICAL**

- J-BOX
- SPEAKER
- G — GAS SENSOR
- P — PHOTO CELL
- WAP — WIRELESS ACCESS POINT

## RCP GENERAL NOTES

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2. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING IN ALL ELECTRICAL, MECHANICAL AND STAIR SPACES
3. WHERE CL IS SHOWN WITHOUT DIMENSIONAL REFERENCE, ASSUME CENTER OF ROOM
4. WHERE ACOUSTIC TILE FIELD IS SURROUNDED BY GWB, CENTER WITHIN GENERAL ROOM AREA U.N.O.
5. WHERE LIGHT FIXTURE OR AIR DIFFUSER BAR LIES PARALLEL BETWEEN STEPS IN AN EXISTING OR NEW CEILING, CENTER FIXTURE BETWEEN STEPS U.N.O.
6. SEE DRAWINGS A724 FOR TYPICAL CEILING DETAILS. SEE A721 FOR TYPICAL SEISMIC BRACING
7. IN ACT CEILINGS, CENTER "FLOATING" LIGHTING FIXTURES WITHIN CEILING TILE RATHER THAN CENTER OF CEILING GRID, U.N.O.

## SCOPE OF WORK:

- EXTENTS OF WORK
- AREA OUTSIDE OF SCOPE OF WORK

| Rev | Date | Issue |
|---|---|---|

CONSULTANT'S LOGO

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

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Federal Way, WA 98003

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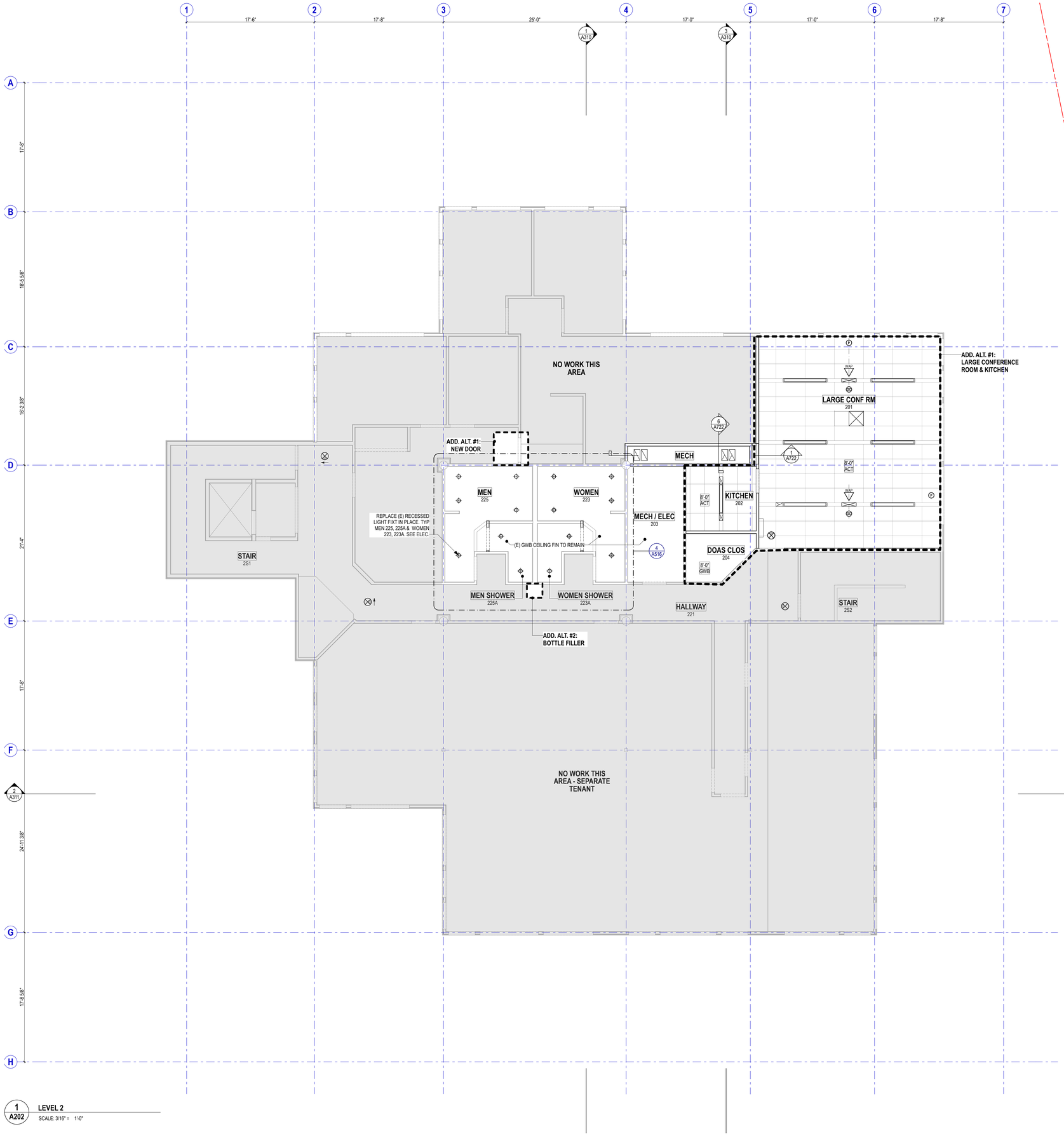
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Issue Date

**PROPOSED RCP - LEVEL 1**
Sheet Title

**A201**

PLAN NORTH

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206.443.8606




1 A202 **LEVEL 2**
SCALE: 3/16" = 1'-0"

## RCP SYMBOL LEGEND

- DROP CEILING (TYP) REFER MARKER FOR HEIGHT / FINISH
- 24" x 48" CEILING TILE
- WOOD CEILING
- +8'-6" GWB — CEILING HEIGHT & FINISH MARKER

**LIGHTING**

- SURFACE MOUNTED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- PENDANT LIGHT
- INDIRECT FIXTURE (CEILING)
- INDIRECT FIXTURE (WALL)
- WALL MOUNTED LIGHT FIXTURE
- CEILING MOUNTED ILLUMINATED EXIT LIGHT (TWO WAY)
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**MECHANICAL**

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- SP — SPRINKLER
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## RCP GENERAL NOTES

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2. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING IN ALL ELECTRICAL, MECHANICAL AND STAIR SPACES
3. WHERE CL IS SHOWN WITHOUT DIMENSIONAL REFERENCE, ASSUME CENTER OF ROOM
4. WHERE ACOUSTIC TILE FIELD IS SURROUNDED BY GWB, CENTER WITHIN GENERAL ROOM AREA U.N.O.
5. WHERE LIGHT FIXTURE OR AIR DIFFUSER BAR LIES PARALLEL BETWEEN STEPS IN AN EXISTING OR NEW CEILING, CENTER FIXTURE BETWEEN STEPS U.N.O.
6. SEE DRAWINGS A724 FOR TYPICAL CEILING DETAILS. SEE A721 FOR TYPICAL SEISMIC BRACING
7. IN ACT CEILINGS, CENTER "FLOATING" LIGHTING FIXTURES WITHIN CEILING TILE RATHER THAN CENTER OF CEILING GRID, U.N.O.

## SCOPE OF WORK:

- EXTENTS OF WORK
- AREA OUTSIDE OF SCOPE OF WORK

| Rev | Date | Issue |
|---|---|---|
| | | |

CONSULTANT'S LOGO

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

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**BID SET**
Issue

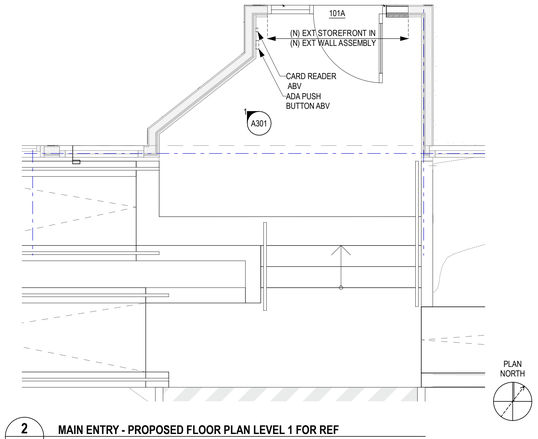
**07/18/25**
Issue Date

**PROPOSED RCP - LEVEL 2**
Sheet Title

**A202**

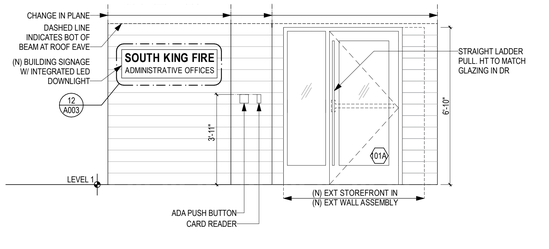
PLAN NORTH

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2 A301 **MAIN ENTRY - PROPOSED FLOOR PLAN LEVEL 1 FOR REF**

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




1 A301 **MAIN ENTRY - EXTERIOR ELEVATION UNFOLDED**

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

| Rev | Date | Issue |
|---|---|---|
| | | |

CONSULTANT'S LOGO

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #

**Weinstein A+U**
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Seattle, WA 98121
206.443.8606
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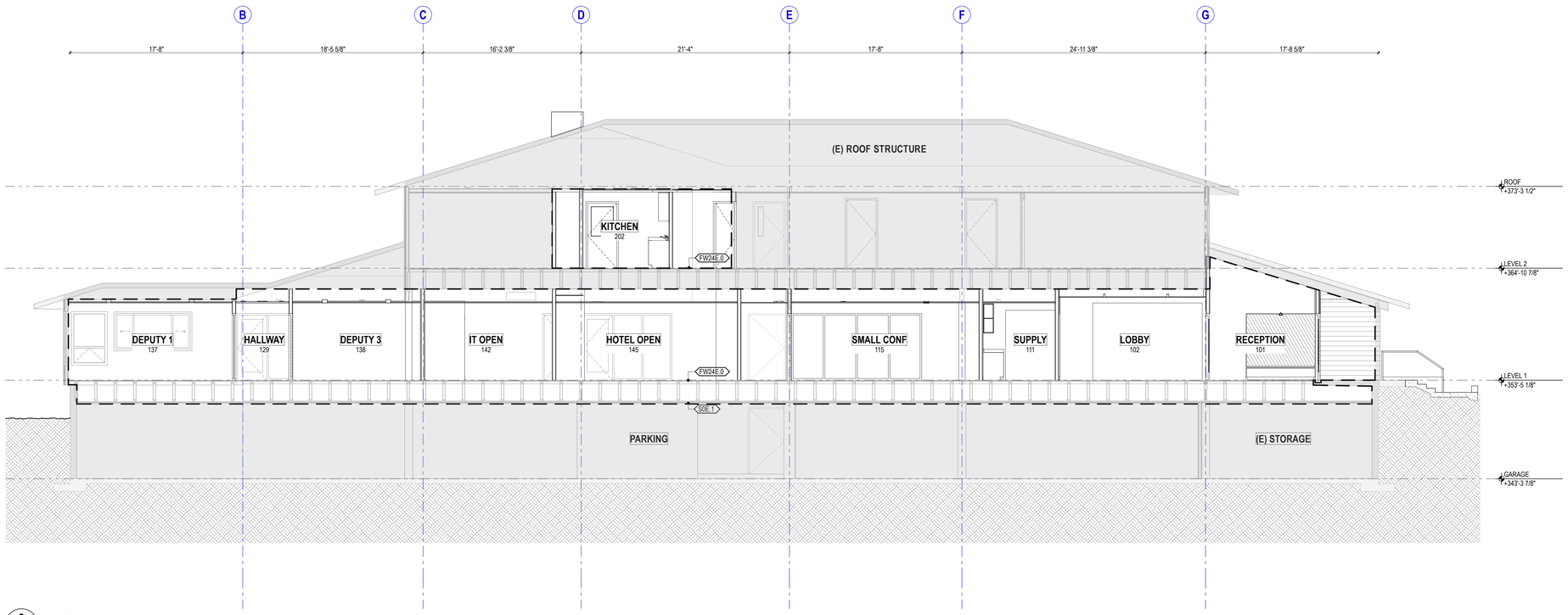
**BID SET**
Issue

**07/18/25**
Issue Date

**EXTERIOR ELEVATIONS - MAIN ENTRY**
Sheet Title

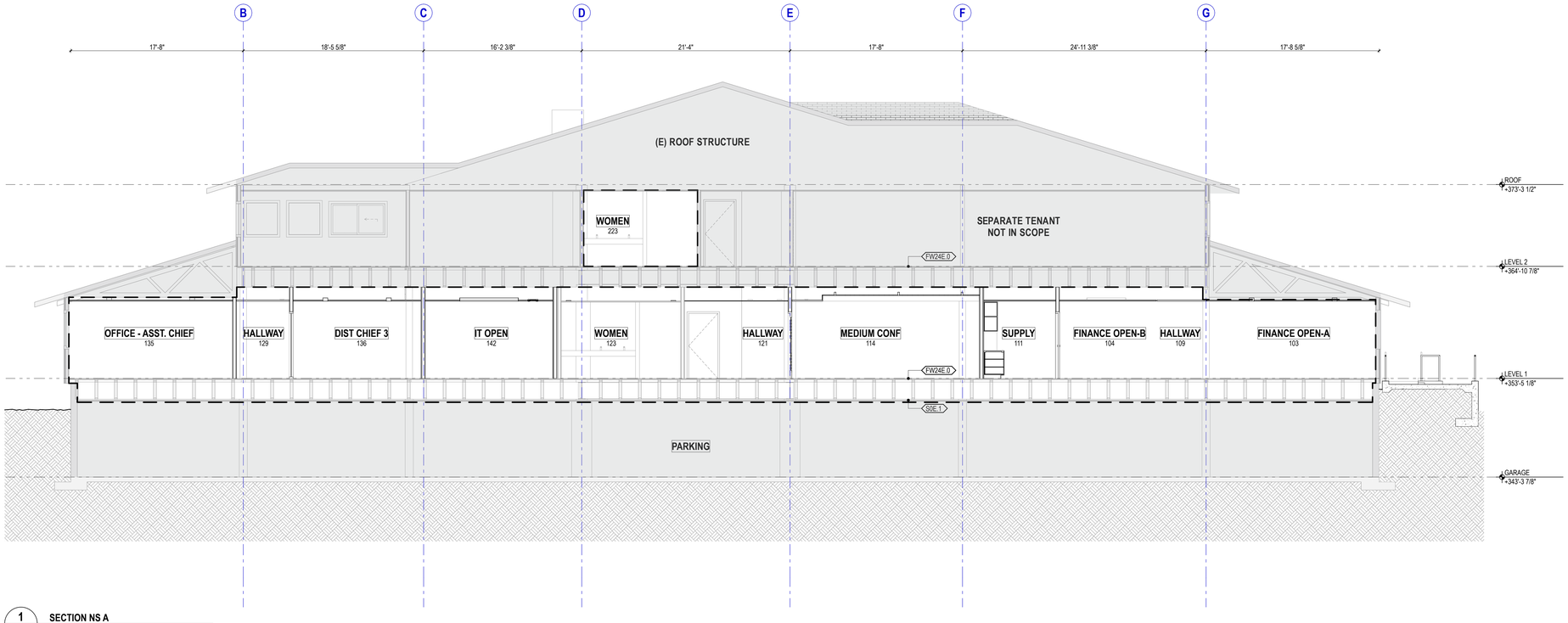
**A301**

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3 A310 **SECTION NS B**

SCALE: 3/16" = 1'-0"




1 A310 **SECTION NS A**

SCALE: 3/16" = 1'-0"

## ELEVATION & SECTION NOTES

1. FOR LIST OF ABBREVIATIONS, SEE COVER SHEET **G001**
2. FOR BUILDING CODE INFORMATION SEE SHEET G201
3. FOR WALL AND FLOOR ASSEMBLIES INFORMATION SEE A700 SERIES SHEETS
4. FOR GLAZING SCHEDULES SEE A410 SERIES SHEETS

## HORIZONTAL ASSEMBLY SYMBOL

RM8B.0

**RM8B.0**

- FIRE RATING AS APPLICABLE
- ASSEMBLY KEY
- FRAMING SIZE
- FRAMING TYPE

R = ROOF ASSEMBLY
F = FLOOR ASSEMBLY
S = SOFFIT / CEILING
T = TOPPING (OVERFRAMING / OVERBURDEN)

## SCOPE OF WORK:

EXTENTS OF WORK

AREA OUTSIDE OF SCOPE OF WORK

| Rev | Date | Issue |
|---|---|---|
| | | |

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**BID SET**
Issue

**07/18/25**
Issue Date

**BUILDING SECTIONS - N and S**
Sheet Title

**A310**

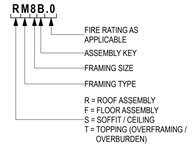
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## ELEVATION & SECTION NOTES

1. FOR LIST OF ABBREVIATIONS, SEE COVER SHEET **G001**
2. FOR BUILDING CODE INFORMATION SEE SHEET G201
3. FOR WALL AND FLOOR ASSEMBLIES INFORMATION SEE A700 SERIES SHEETS
4. FOR GLAZING SCHEDULES SEE A410 SERIES SHEETS

## HORIZONTAL ASSEMBLY SYMBOL

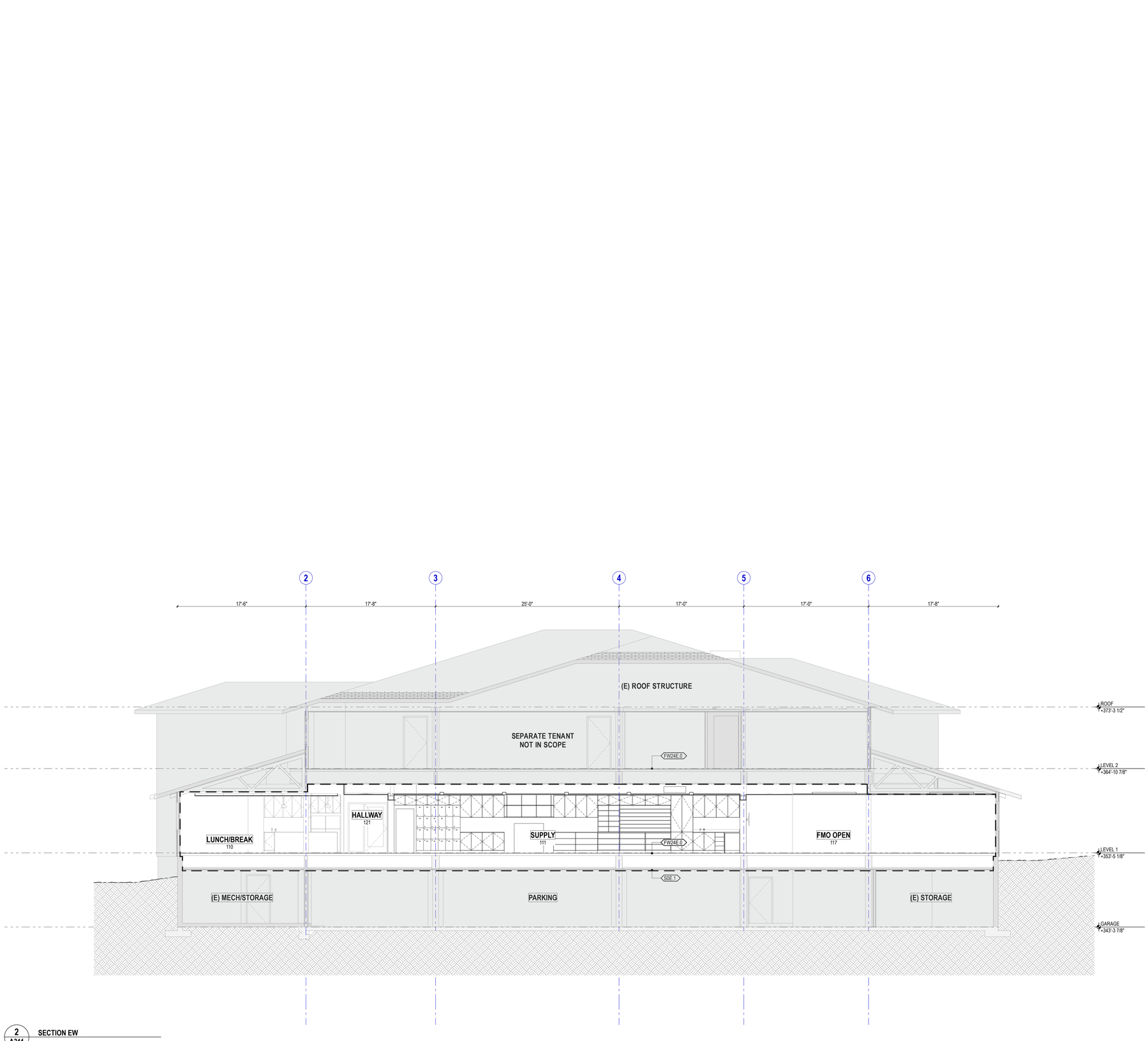



## SCOPE OF WORK:

EXTENTS OF WORK

AREA OUTSIDE OF SCOPE OF WORK




2 / A311 **SECTION EW**

SCALE: 3/16" = 1'-0"

| Rev | Date | Issue |
|---|---|---|
| | | |

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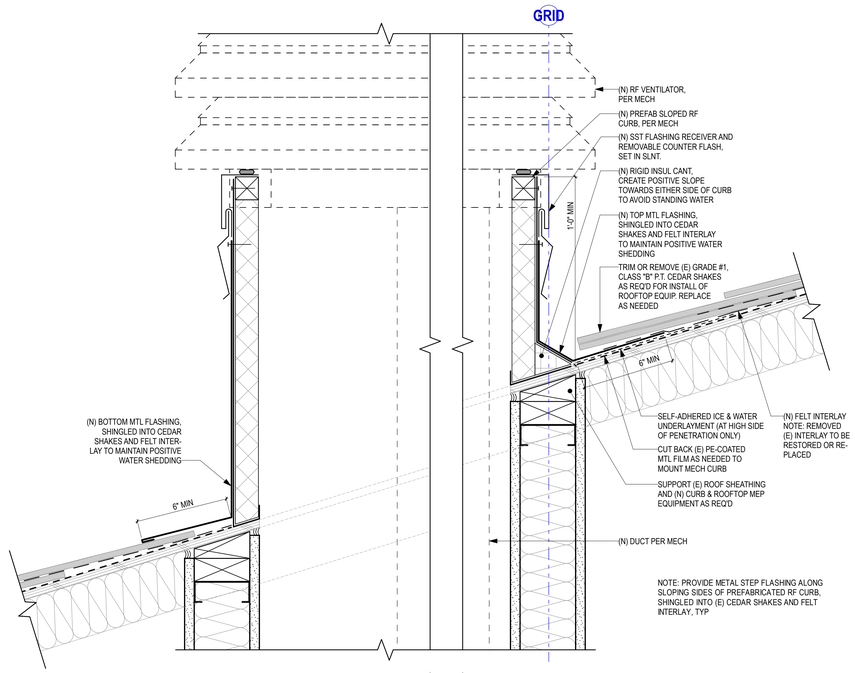
**BID SET**
Issue

**07/18/25**
Issue Date

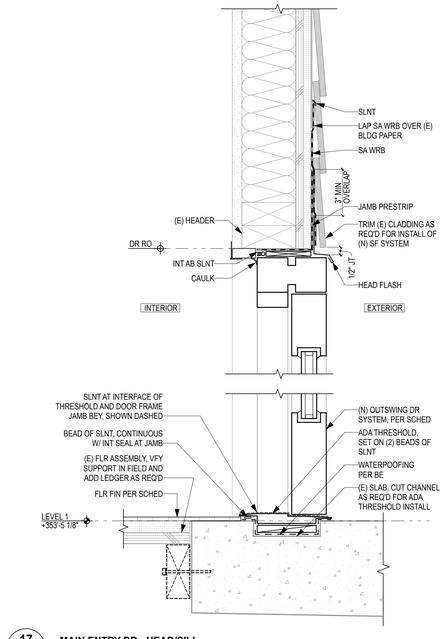
**BUILDING SECTIONS - E and W**
Sheet Title

**A311**

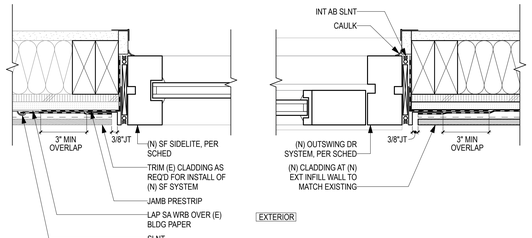
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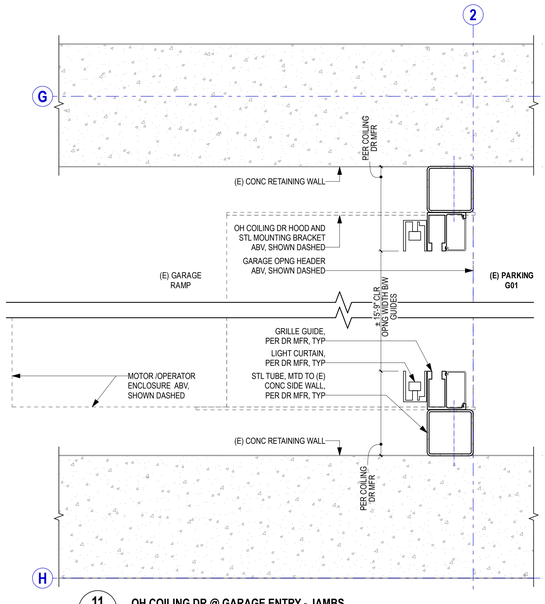

**4 / A401** — **ROOF PENETRATION @ (N) ROOF VENTILATOR**
SCALE: 3" = 1'-0"



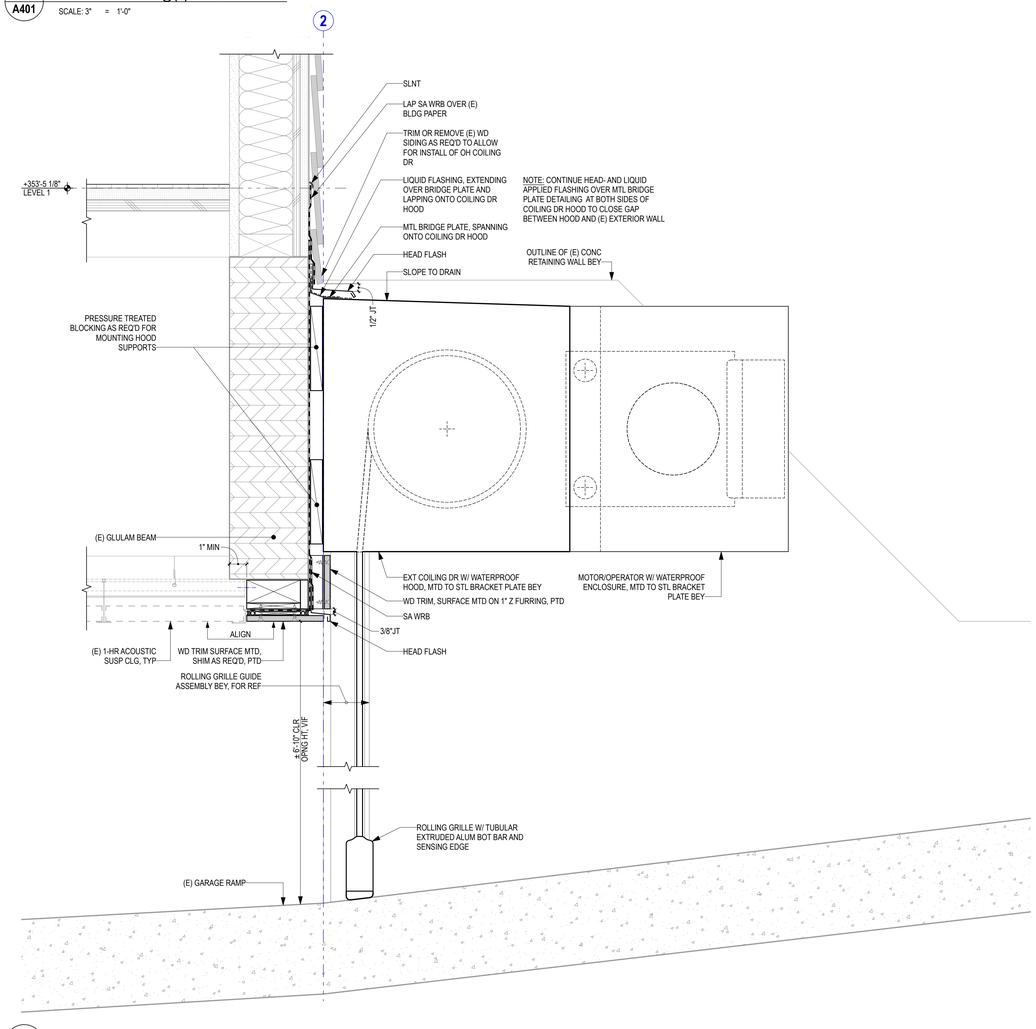

**17 / A401** — **MAIN ENTRY DR - HEAD/SILL**
SCALE: 3" = 1'-0"




**16 / A401** — **MAIN ENTRY DR - JAMBS**
SCALE: 3" = 1'-0"




**11 / A401** — **OH COILING DR @ GARAGE ENTRY - JAMBS**
SCALE: 3" = 1'-0"




**1 / A401** — **OH COILING DR @ GARAGE ENTRY - HEAD/SILL**
SCALE: 3" = 1'-0"

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

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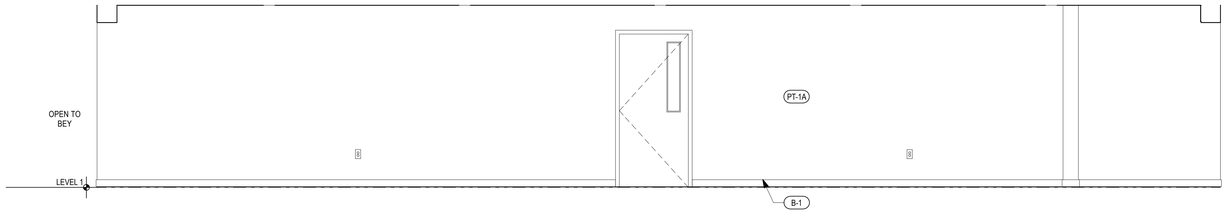
**BID SET**
Issue

**07/18/25**
Issue Date

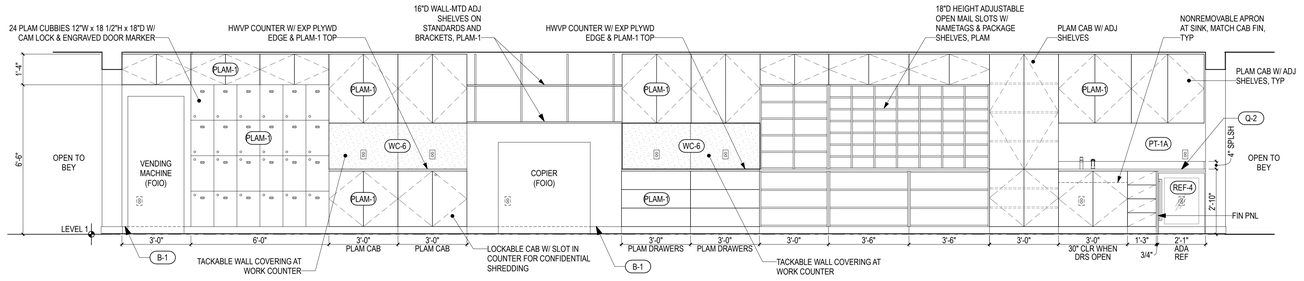
**EXTERIOR DETAILS**
Sheet Title

**A401**

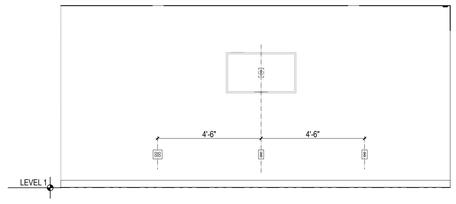
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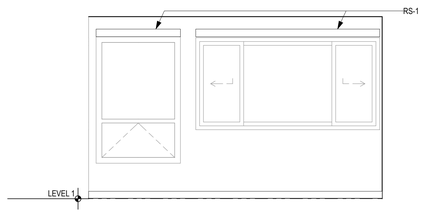

**5 / A511** SUPPLY 111 SOUTH
SCALE: 3/8" = 1'-0"



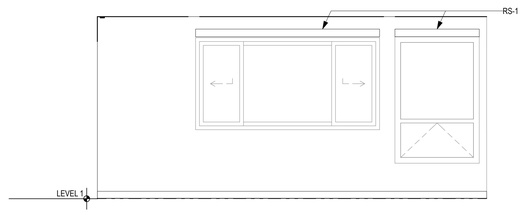

**4 / A511** SUPPLY 111 NORTH
SCALE: 3/8" = 1'-0"



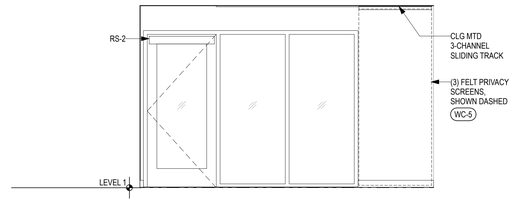

**18 / A511** FMO CONF 118
SCALE: 3/8" = 1'-0"



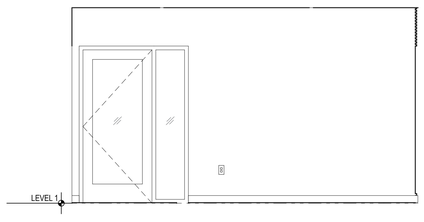

**13 / A511** FMO CONF 118
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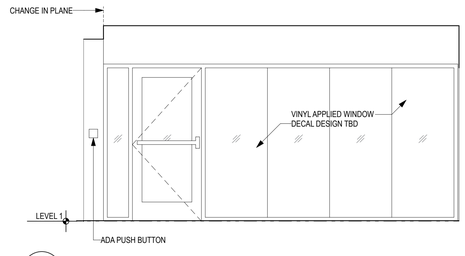

**8 / A511** FMO CONF 118
SCALE: 3/8" = 1'-0"



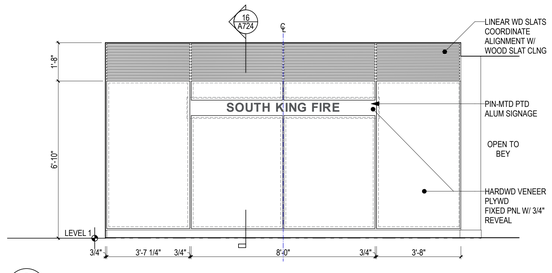

**3 / A511** FMO CONF 118
SCALE: 3/8" = 1'-0"



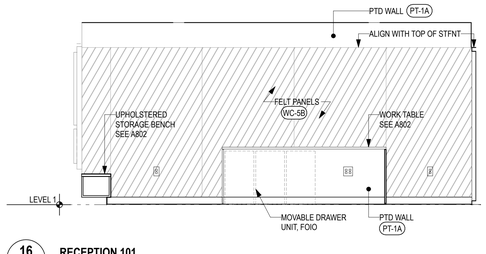

**12 / A511** LOBBY 102
SCALE: 3/8" = 1'-0"



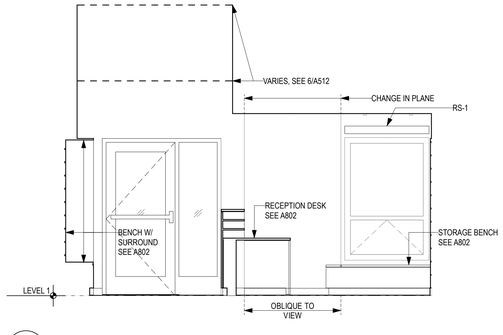

**7 / A511** LOBBY 102
SCALE: 3/8" = 1'-0"



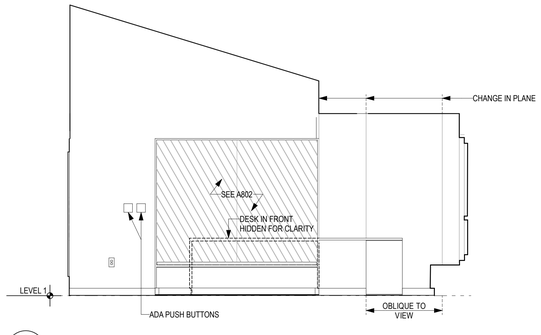

**2 / A511** LOBBY 102
SCALE: 3/8" = 1'-0"



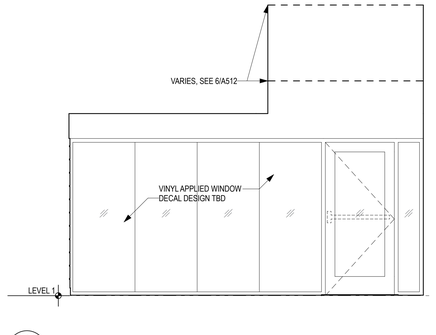

**16 / A511** RECEPTION 101
SCALE: 3/8" = 1'-0"




**6 / A511** RECEPTION 101
SCALE: 3/8" = 1'-0"




**6 / A511** RECEPTION 101
SCALE: 3/8" = 1'-0"




**1 / A511** RECEPTION 101
SCALE: 3/8" = 1'-0"

| Rev | Date | Issue |
|---|---|---|

CONSULTANT'S LOGO

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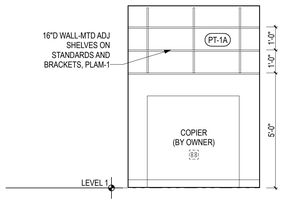
**BID SET**
Issue

**07/18/25**
Issue Date

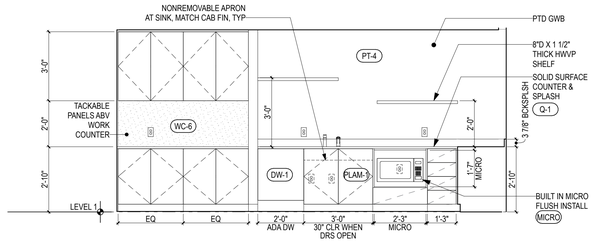
**INTERIOR ELEVATIONS LVL 1**
Sheet Title

**A511**

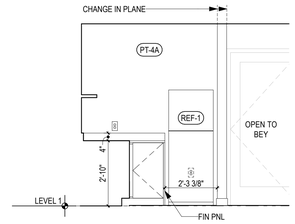
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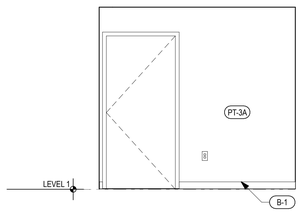

15 A512 **COPY 127A**
SCALE: 3/8" = 1'-0"



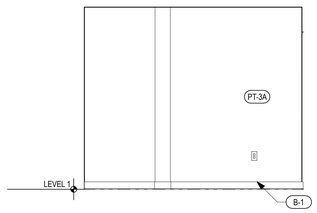

5 A512 **COFFEE 127**
SCALE: 3/8" = 1'-0"



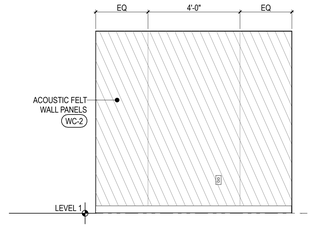

5 A512 **COFFEE 127**
SCALE: 3/8" = 1'-0"



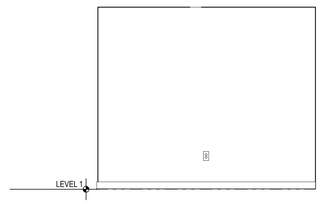

19 A512 **QUIET 112**
SCALE: 3/8" = 1'-0"



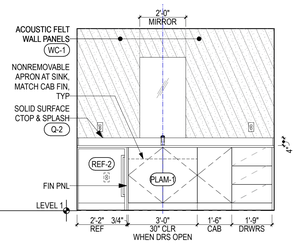

14 A512 **QUIET 112**
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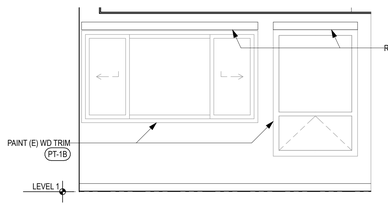

9 A512 **QUIET 112**
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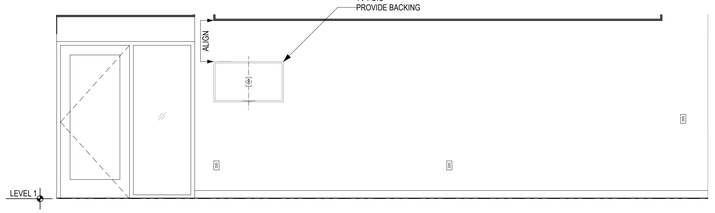

4 A512 **QUIET 112**
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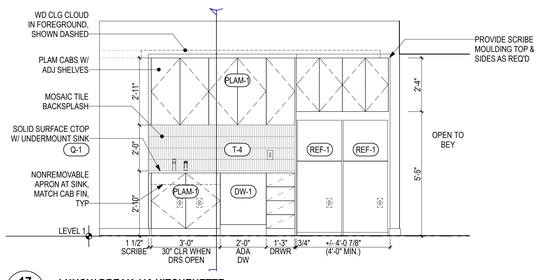

18 A512 **LACTATION 113**
SCALE: 3/8" = 1'-0"



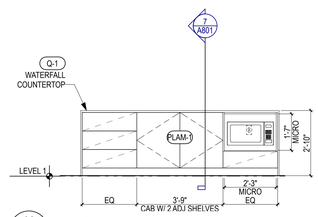

8 A512 **LUNCH/BREAK 110**
SCALE: 3/8" = 1'-0"



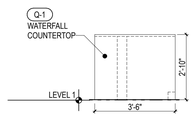

3 A512 **LUNCH/BREAK 110**
SCALE: 3/8" = 1'-0"



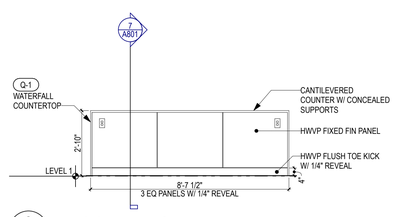

17 A512 **LUNCH/ BREAK 110 KITCHENETTE**
SCALE: 3/8" = 1'-0"



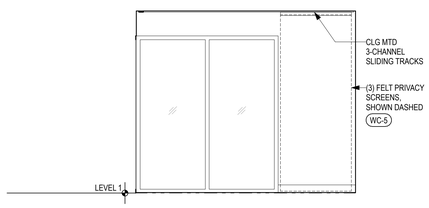

12 A512 **LUNCH/ BREAK 110 ISLAND**
SCALE: 3/8" = 1'-0"



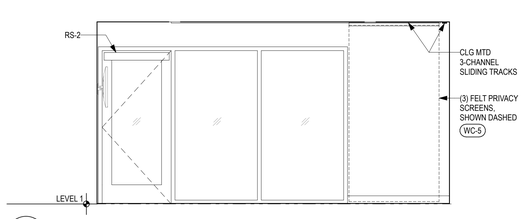

7 A512 **LUNCH/ BREAK 110 ISLAND SIDE**
SCALE: 3/8" = 1'-0"



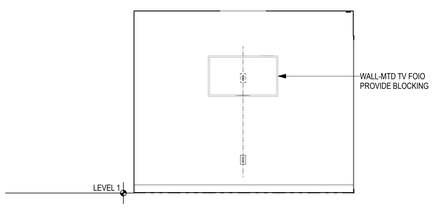

2 A512 **LUNCH/ BREAK 110 ISLAND BAR**
SCALE: 3/8" = 1'-0"



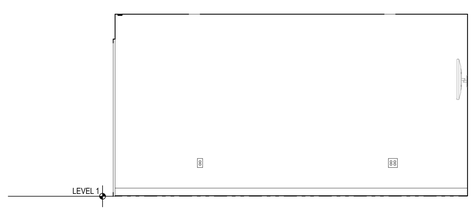

16 A512 **HR/FINANCE CONF 106**
SCALE: 3/8" = 1'-0"




11 A512 **HR/FINANCE CONF 106**
SCALE: 3/8" = 1'-0"




6 A512 **HR/FINANCE CONF 106**
SCALE: 3/8" = 1'-0"




1 A512 **HR/FINANCE CONF 106**
SCALE: 3/8" = 1'-0"

| Rev | Date | Issue |
|---|---|---|

CONSULTANT'S LOGO

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #

**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
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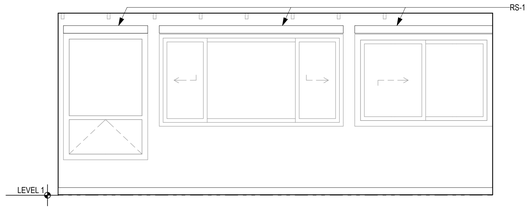
**BID SET**
Issue

**07/18/25**
Issue Date

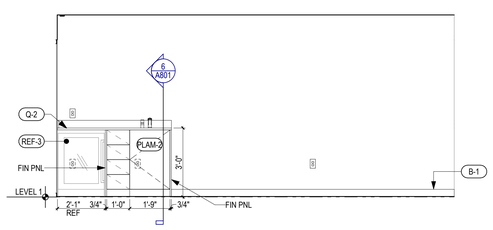
**INTERIOR ELEVATIONS LVL 1**
Sheet Title

**A512**

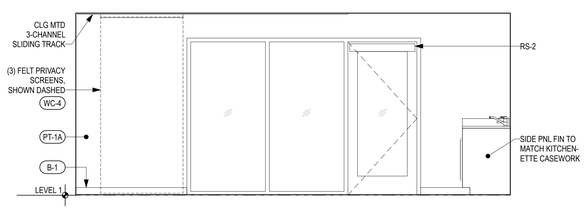
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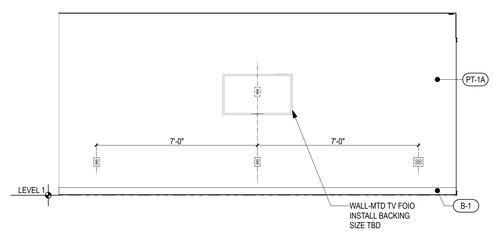

14 A513 **ADMIN CONF 128**
SCALE: 3/8" = 1'-0"



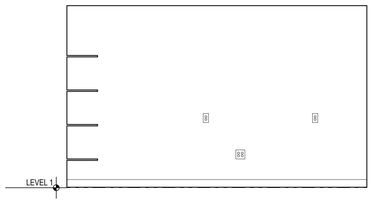

14 A513 **ADMIN CONF 128**
SCALE: 3/8" = 1'-0"



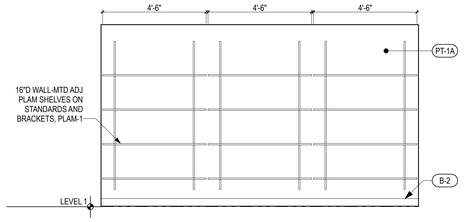

9 A513 **ADMIN CONF 128**
SCALE: 3/8" = 1'-0"



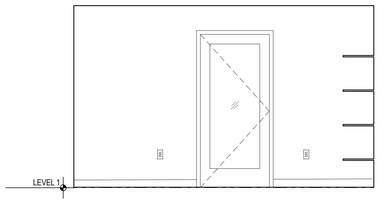

4 A513 **ADMIN CONF 128**
SCALE: 3/8" = 1'-0"



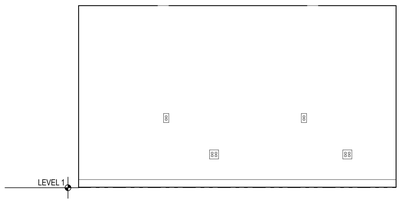

18 A513 **IT LAB 143**
SCALE: 3/8" = 1'-0"



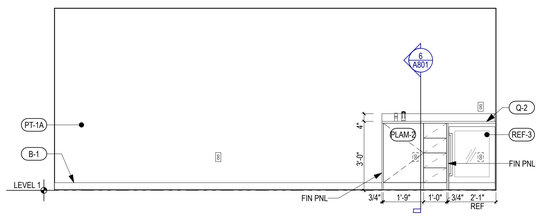

13 A513 **IT LAB 143**
SCALE: 3/8" = 1'-0"



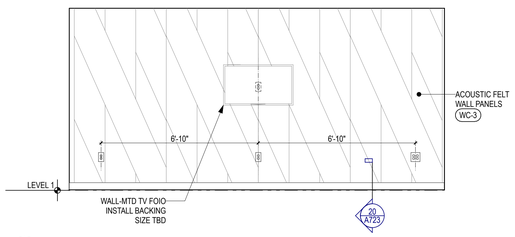

8 A513 **IT LAB 143**
SCALE: 3/8" = 1'-0"



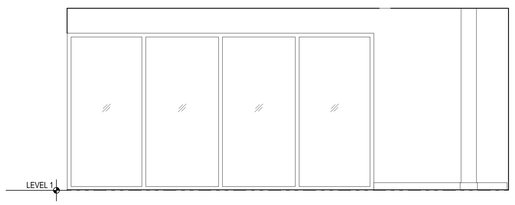

3 A513 **IT LAB 143**
SCALE: 3/8" = 1'-0"



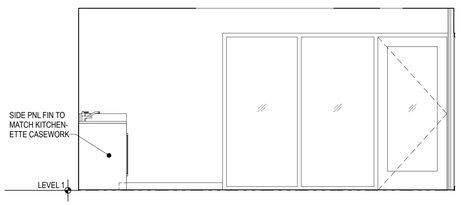

17 A513 **SMALL CONF 115**
SCALE: 3/8" = 1'-0"



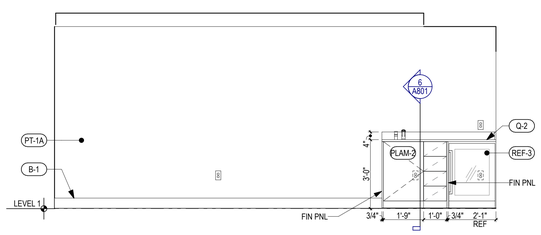

12 A513 **SMALL CONF 115**
SCALE: 3/8" = 1'-0"



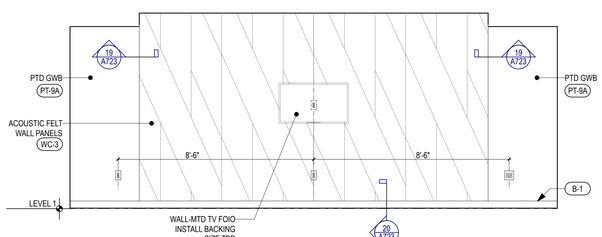

7 A513 **SMALL CONF 115**
SCALE: 3/8" = 1'-0"



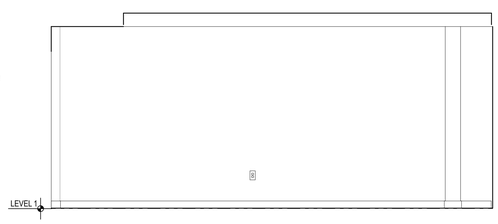

2 A513 **SMALL CONF 115**
SCALE: 3/8" = 1'-0"



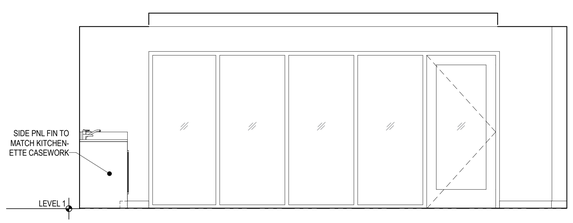

16 A513 **MEDIUM CONF 114**
SCALE: 3/8" = 1'-0"




11 A513 **MEDIUM CONF 114**
SCALE: 3/8" = 1'-0"




6 A513 **MEDIUM CONF 114**
SCALE: 3/8" = 1'-0"




1 A513 **MEDIUM CONF 114**
SCALE: 3/8" = 1'-0"

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CONSULTANT'S LOGO

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

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Federal Way, WA 98003

**24022**
Project #

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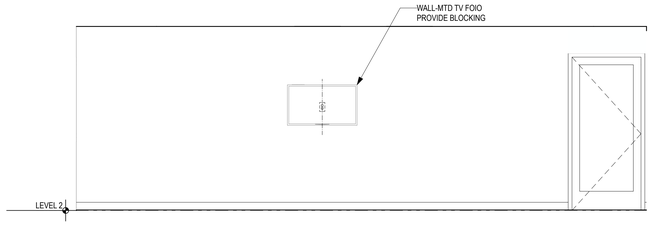
**BID SET**
Issue

**07/18/25**
Issue Date

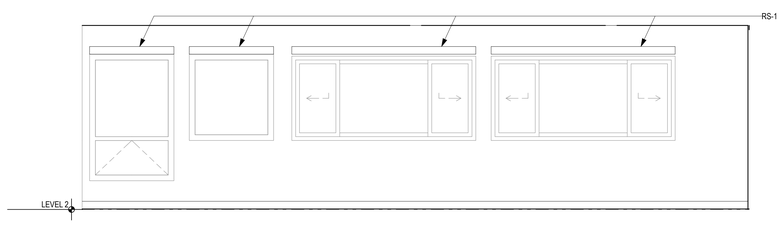
**INTERIOR ELEVATIONS LVL 1**
Sheet Title

**A513**

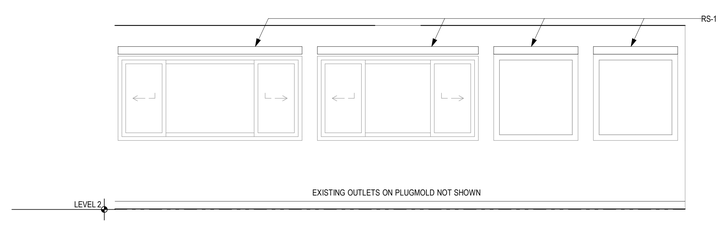
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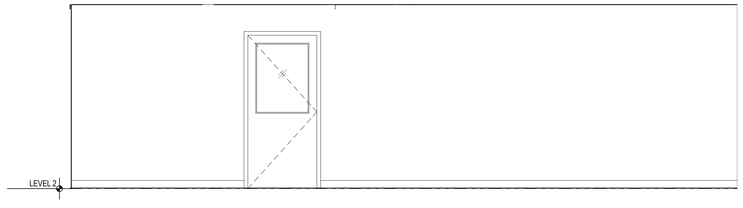

12 A514 **LARGE CONF RM**
SCALE: 3/8" = 1'-0"



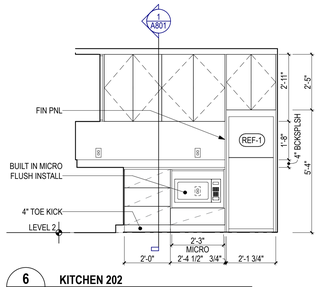

7 A514 **LARGE CONF RM**
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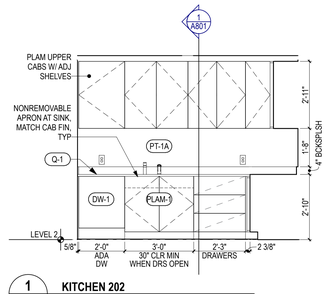

2 A514 **LARGE CONF RM**
SCALE: 3/8" = 1'-0"




6 A514 **LARGE CONF RM**
SCALE: 3/8" = 1'-0"




6 A514 **KITCHEN 202**
SCALE: 3/8" = 1'-0"




1 A514 **KITCHEN 202**
SCALE: 3/8" = 1'-0"

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

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**07/18/25**
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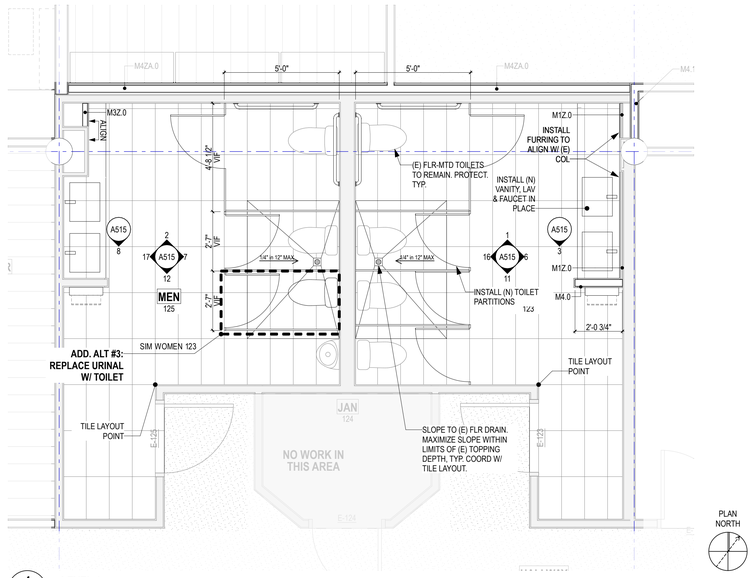
**INTERIOR ELEVATIONS LVL 2**
Sheet Title

**A514**

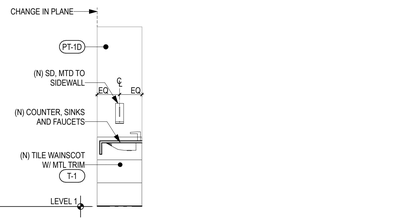
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## TOILET/SHOWER ROOM ACCESSORIES KEYNOTES

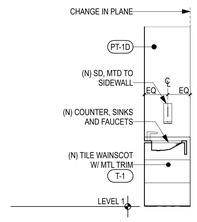
| | |
|---|---|
| GB-1 | GRAB BAR 42" MIN |
| GB-2 | GRAB BAR 36" MIN |
| GB-3 | GRAB BAR 18" MIN |
| TPD | TOILET PAPER DISPENSER |
| SCD | SEAT COVER DISPENSER |
| SND | SANITARY NAPKIN DISPOSAL |
| SD | AUTO SOAP DISPENSER |
| PTD/R | PAPER TOWEL DISPENSER AND WASTE RECEPTACLE |
| CH | COAT HOOK |



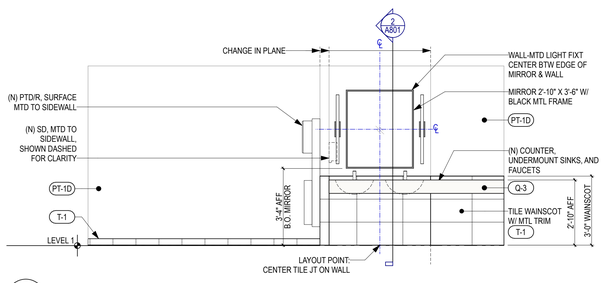

4 A515 **LEVEL 1**
SCALE: 3/8" = 1'-0"



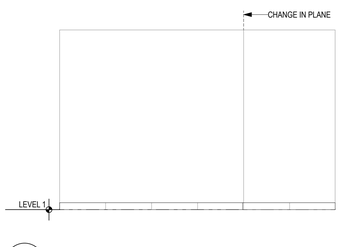

8 A515 **MEN 125**
SCALE: 3/8" = 1'-0"



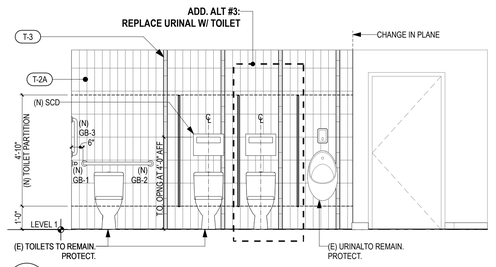

3 A515 **WOMEN 123**
SCALE: 3/8" = 1'-0"



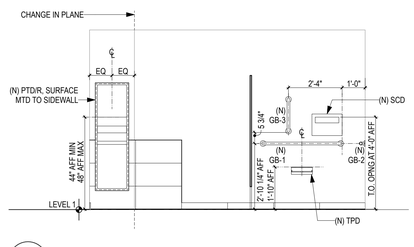

17 A515 **MEN 125**
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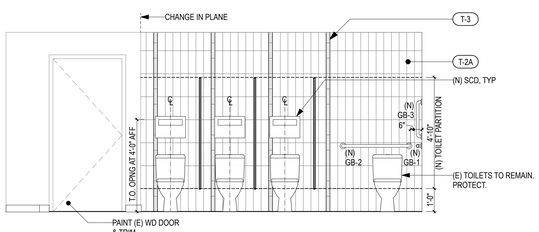

12 A515 **MEN 125**
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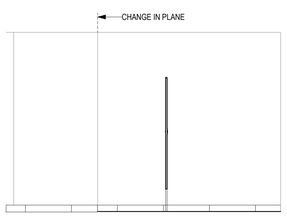

7 A515 **MEN 125**
SCALE: 3/8" = 1'-0"



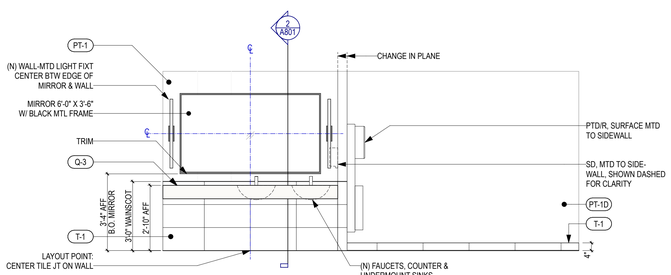

2 A515 **MEN 125**
SCALE: 3/8" = 1'-0"



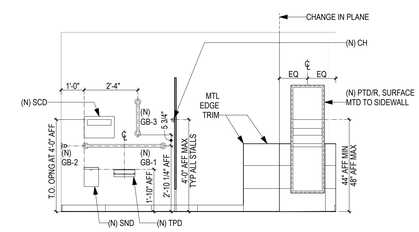

16 A515 **WOMEN 123**
SCALE: 3/8" = 1'-0"




11 A515 **WOMEN 123**
SCALE: 3/8" = 1'-0"




6 A515 **WOMEN 123**
SCALE: 3/8" = 1'-0"




1 A515 **WOMEN 123**
SCALE: 3/8" = 1'-0"

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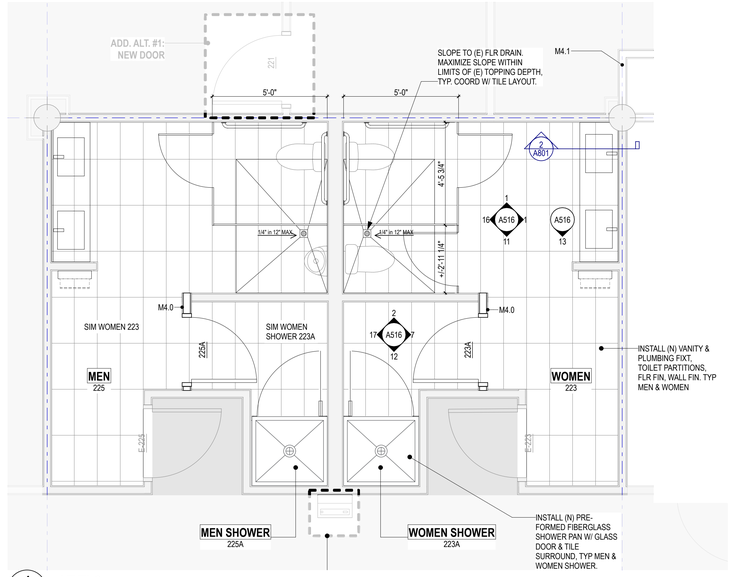
**BID SET**
Issue

**07/18/25**
Issue Date

**INTERIOR ELEVATIONS - LVL-1 RESTROOMS**
Sheet Title

**A515**

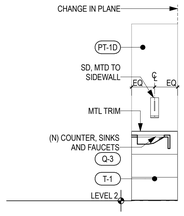

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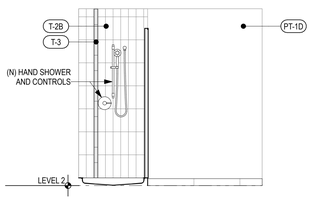

**4 / A516** **LEVEL 2**
SCALE: 3/8" = 1'-0"

## TOILET/SHOWER ROOM ACCESSORIES KEYNOTES

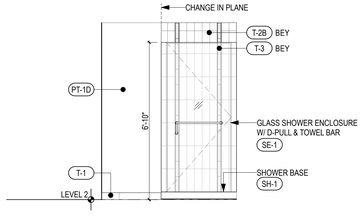
| | |
|---|---|
| GB-1 | GRAB BAR 42" MIN |
| GB-2 | GRAB BAR 36" MIN |
| GB-3 | GRAB BAR 18" MIN |
| TPD | TOILET PAPER DISPENSER |
| SCD | SEAT COVER DISPENSER |
| SND | SANITARY NAPKIN DISPOSAL |
| SD | AUTO SOAP DISPENSER |
| PTD/R | PAPER TOWEL DISPENSER AND WASTE RECEPTACLE |
| CH | COAT HOOK |



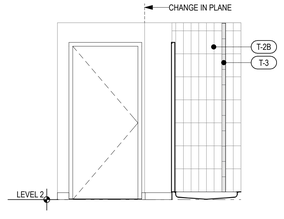

**13 / A516** **WOMEN 223**
SCALE: 3/8" = 1'-0"



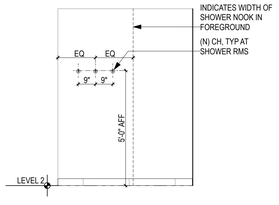

**17 / A516** **WOMEN SHOWER 223A**
SCALE: 3/8" = 1'-0"



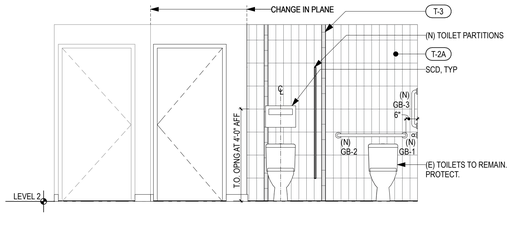

**12 / A516** **WOMEN SHOWER 223A**
SCALE: 3/8" = 1'-0"



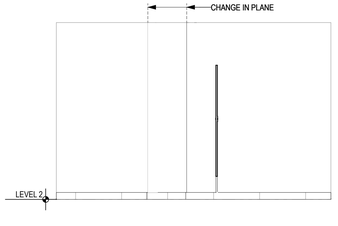

**7 / A516** **WOMEN SHOWER 223A**
SCALE: 3/8" = 1'-0"



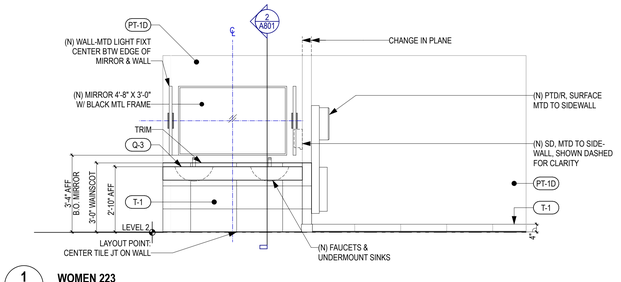

**2 / A516** **WOMEN SHOWER 223A**
SCALE: 3/8" = 1'-0"



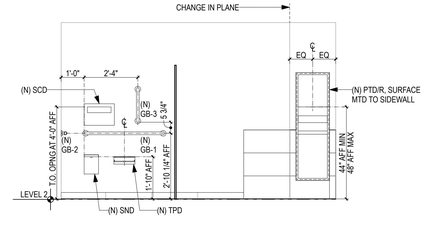

**16 / A516** **WOMEN 223**
SCALE: 3/8" = 1'-0"




**11 / A516** **WOMEN 223**
SCALE: 3/8" = 1'-0"




**1 / A516** **WOMEN 223**
SCALE: 3/8" = 1'-0"




**1 / A516** **WOMEN 223**
SCALE: 3/8" = 1'-0"

| Rev | Date | Issue |
|---|---|---|
| | | |

CONSULTANT'S LOGO

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #

**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com

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EDWARD WEINSTEIN
State of Washington

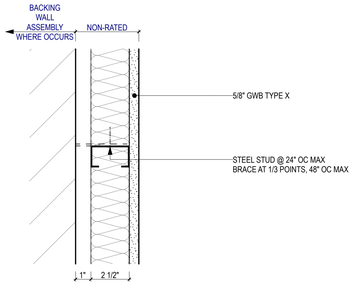
**BID SET**
Issue

**07/18/25**
Issue Date

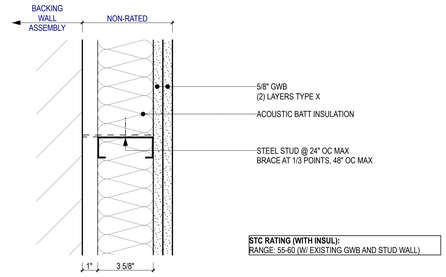
**INTERIOR ELEVATIONS - LVL-2 RESTROOMS**
Sheet Title

**A516**

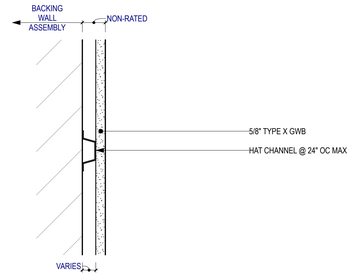
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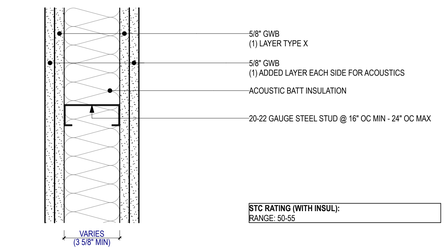

**M3Z** **FURRING WALL - LIGHT-GAUGE METAL STUDS** 0-HR: M3Z.0



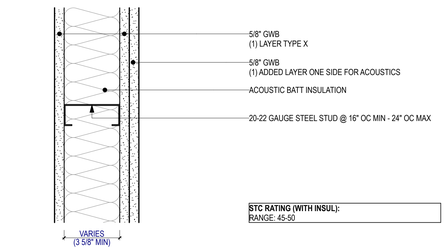

**M4ZA** **ACOUSTIC FURRING WALL - LIGHT-GAUGE METAL STUDS** 0-HR: M4ZA.0



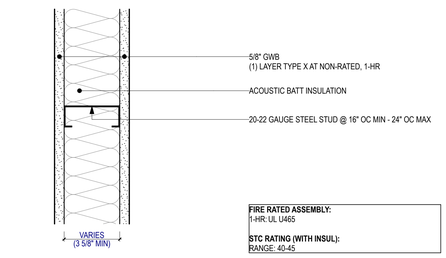

**M1Z**
**M2Z** **FURRING WALL - METAL HAT CHANNEL** 0-HR: M1Z.0 / M2Z.0




**M4B**
**M6B** **LIGHT GAUGE METAL-FRAMED WALL - HEAVY ACOUSTIC** NR: M4.0 / M6.0




**M4A**
**M6A** **LIGHT GAUGE METAL-FRAMED WALL - LIGHT ACOUSTIC** NR: M4.0 / M6.0

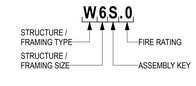



**M4, M4.1**
**M6** **LIGHT GAUGE METAL-FRAMED WALL** NR: M4.0 / M6.0
1-HR: M4.1 / M6.1

## GENERAL NOTES - INT. WALLS

1. SEE G001 FOR GENERAL NOTES AND ABBREVIATIONS.
2. SEE G201 BUILDING CODE DIAGRAMS FOR REQUIRED FIRE RATINGS.
3. **GWB IS TYPE 'X' UNO.**
4. STUD SIZES ARE PER PARTITION TYPES.
5. OPENINGS AND PERIMETERS AT RATED PARTITIONS WILL BE SEALED WITH APPROVED FIRESTOP ASSEMBLIES FOR THE SAME HOUR RATING AS THE PARTITION.
6. WHERE ENDS OF PARTITION ABUT OTHER CONSTRUCTION, PROVIDE RELIEF JOINT.
7. PROVIDE BACKING PER INTERIOR ELEVATIONS. SEE A600-SERIES SHEETS.
8. ALL FURRED WALLS SHALL HAVE VERTICAL AND LATERAL DRAFTSTOPPING PER IBC 718.3.
9. ALL EXPOSED GWB TO BE LEVEL 4 FINISH UNO.
10. STUD CAVITIES IN ACOUSTIC WALLS TO BE FILLED WITH LOW DENSITY FIBERGLASS INSULATION.
11. AVOID BACK TO BACK ELECTRICAL OUTLETS IN STUD CAVITY. PROVIDE ACOUSTIC PUTTY PADS BEHIND ELECTRICAL BOXES IN WALLS RATED STC-45 OR HIGHER.
12. SEAL OPENINGS AROUND PIPE AND DUCT PENETRATIONS WITH NON-HARDENING ACOUSTICAL SEALANT.
13. ASSEMBLY KEY PER DETAIL BELOW

## ASSEMBLY SYMBOL




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

CONSULTANT'S LOGO

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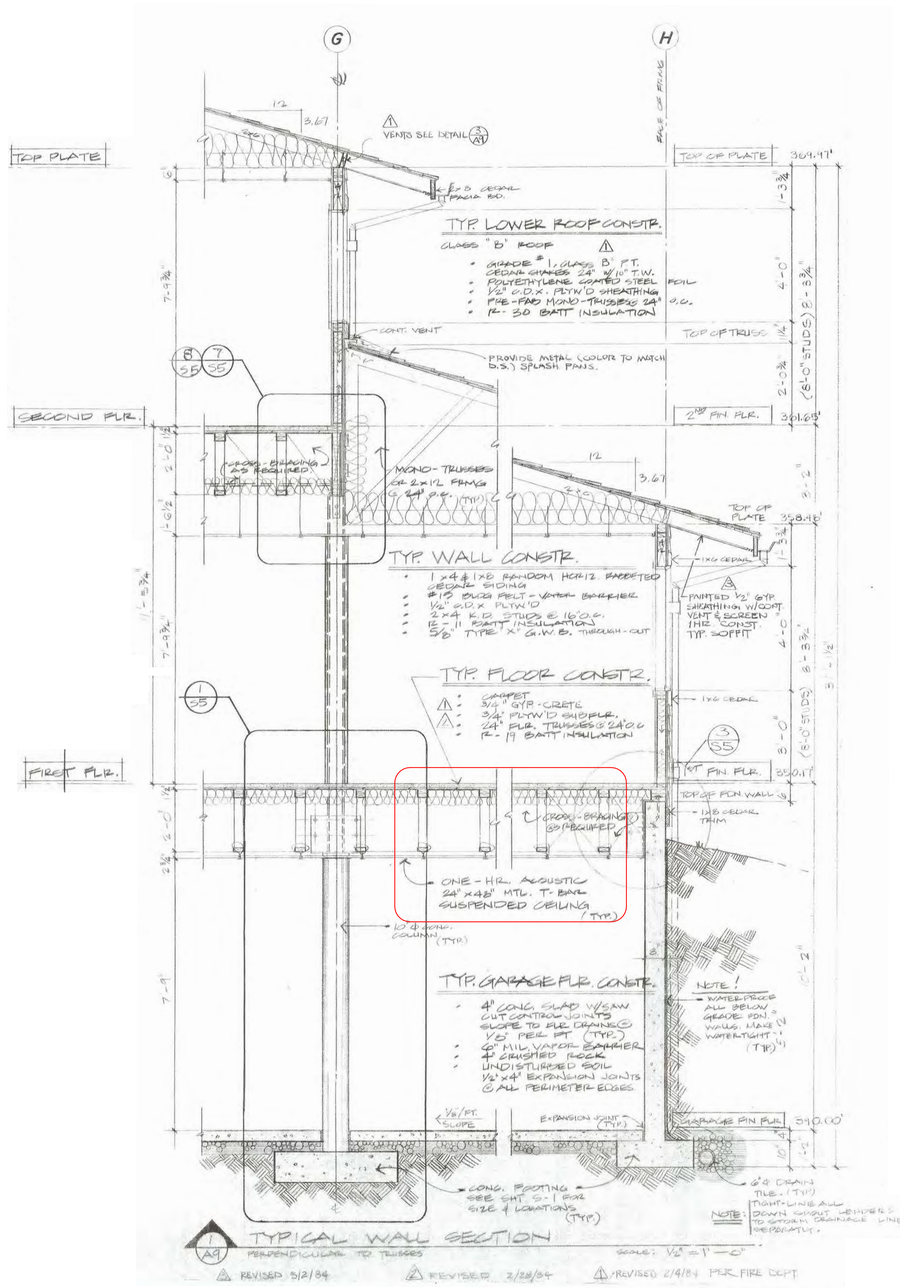
**BID SET**
Issue

**07/18/25**
Issue Date

**INTERIOR VERTICAL ASSEMBLIES**
Sheet Title

**A701**

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1 / A702 **TYPICAL WALL & FLOOR CONSTRUCTION (EXISTING BLDG) - DRAWING BY OTHERS**

NOT TO SCALE

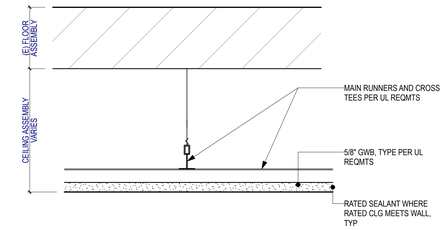
## GENERAL NOTES - INTERIOR HORIZONTAL ASSEMBLIES

1. SEE G001 FOR GENERAL NOTES AND ABBREVIATIONS.
2. SEE G201 BUILDING CODE DIAGRAMS FOR REQUIRED FIRE RATINGS.
3. CEILING GWB IS **TYPE 'C'** FOR METAL FRAMED ASSEMBLIES UNO.
4. ASSEMBLY KEY PER DETAIL BELOW

## ASSEMBLY SYMBOL:

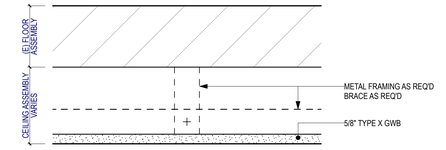
**FW6E.1**

- F = FLOOR ASMBLY
- S = SOFFIT / CEILING
- T = TOPPING (OVERFRAMING)
- STRUCTURE / FRAMING TYPE
- STRUCTURE / FRAMING SIZE
- FIRE RATING
- ASSEMBLY KEY

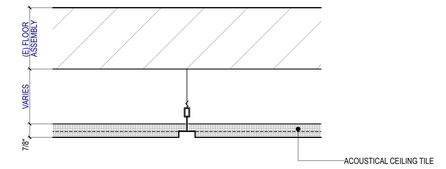



**S0G.1** **FIRE RATED SUSPENDED CEILING - GWB**

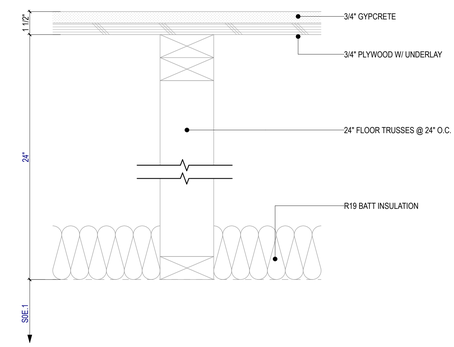
**FIRE RATED ASSEMBLY:**
1-HR: UL Design No. L529



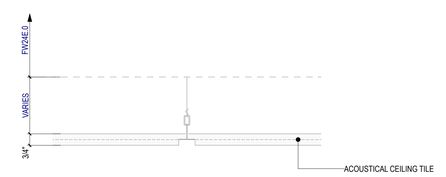

**S0G.0** **FRAMED CEILING - GWB**




**S1N.0** **(N) SUSPENDED METAL T-BAR ACOUSTIC CEILING**




**FW24E.0** **(E) WOOD TRUSS FLOOR** SEE 1/A702 FOR EXISTING CONSTRUCTION




**S0E.1** **(E) FIRE RATED SUSPENDED METAL T-BAR ACOUSTIC CEILING** SEE 1/A702 FOR EXISTING CONSTRUCTION

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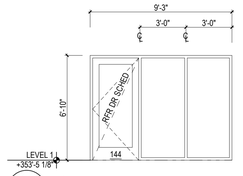
**07/18/25**
Issue Date

**INTERIOR HORIZONTAL ASSEMBLIES**
Sheet Title

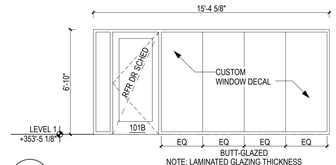
**A702**

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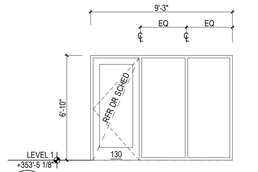
21 A711 **SF 21**
SCALE: 1/4" = 1'-0"



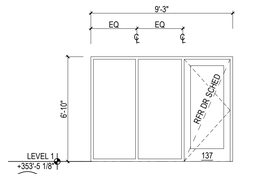

14 A711 **SF 14**
SCALE: 1/4" = 1'-0"



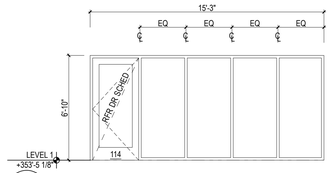

7 A711 **SF 7**
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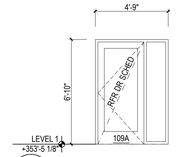

27 A711 **SF 27**
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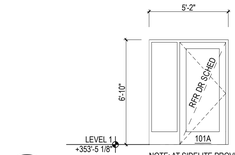

20 A711 **SF 20**
SCALE: 1/4" = 1'-0"




13 A711 **SF 13**
SCALE: 1/4" = 1'-0"

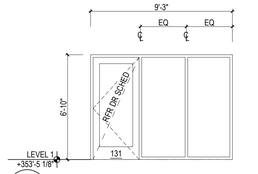



6 A711 **SF 6**
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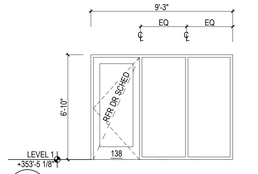



NOTE: AT SIDELITE PROVIDE INSULATED GLAZING, U-FACTOR 0.34 OR BETTER

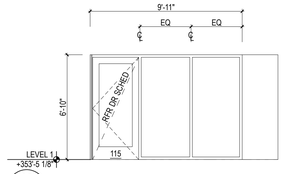
31 A711 **EXT SF 101**
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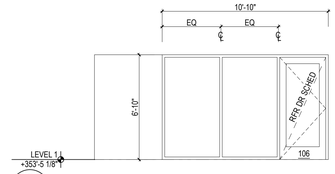

26 A711 **SF 26**
SCALE: 1/4" = 1'-0"



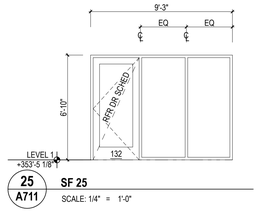

19 A711 **SF 19**
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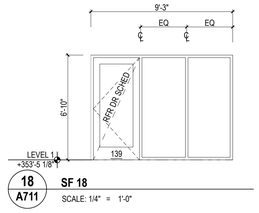

12 A711 **SF 12**
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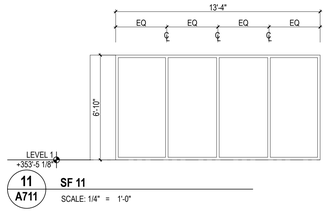

5 A711 **SF 5**
SCALE: 1/4" = 1'-0"



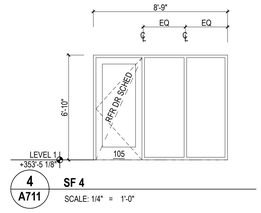

25 A711 **SF 25**
SCALE: 1/4" = 1'-0"



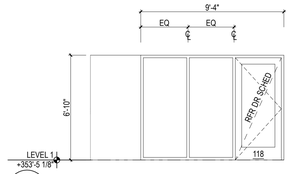

18 A711 **SF 18**
SCALE: 1/4" = 1'-0"



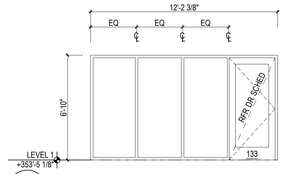

11 A711 **SF 11**
SCALE: 1/4" = 1'-0"



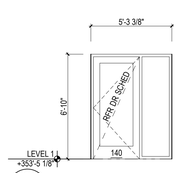

4 A711 **SF 4**
SCALE: 1/4" = 1'-0"



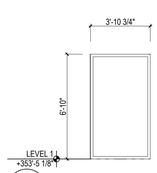

30 A711 **SF 31**
SCALE: 1/4" = 1'-0"



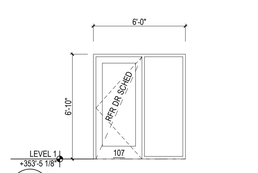

24 A711 **SF 24**
SCALE: 1/4" = 1'-0"



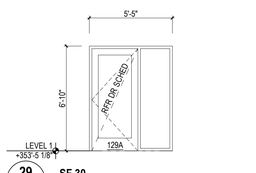

17 A711 **SF 17**
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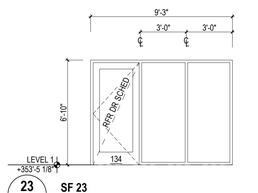

10 A711 **SF 10**
SCALE: 1/4" = 1'-0"



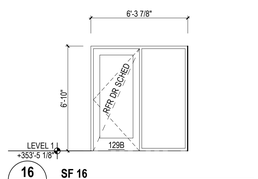

3 A711 **SF 3**
SCALE: 1/4" = 1'-0"



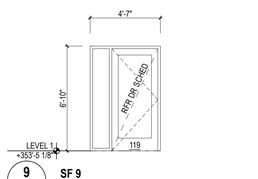

29 A711 **SF 30**
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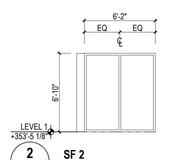

23 A711 **SF 23**
SCALE: 1/4" = 1'-0"



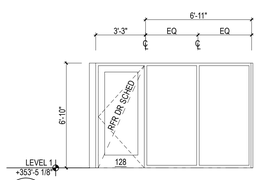

16 A711 **SF 16**
SCALE: 1/4" = 1'-0"



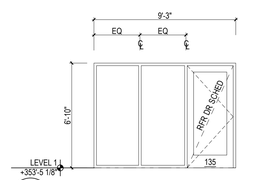

9 A711 **SF 9**
SCALE: 1/4" = 1'-0"



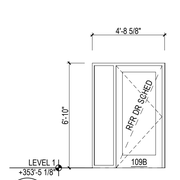

2 A711 **SF 2**
SCALE: 3/16" = 1'-0"



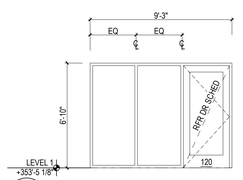

28 A711 **SF 29**
SCALE: 1/4" = 1'-0"



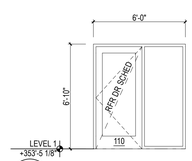

22 A711 **SF 22**
SCALE: 1/4" = 1'-0"




15 A711 **SF 15**
SCALE: 1/4" = 1'-0"




8 A711 **SF 8**
SCALE: 1/4" = 1'-0"




1 A711 **SF 1**
SCALE: 1/4" = 1'-0"

## STOREFRONT SCHEDULE NOTES

1. ELEVATIONS SHOWN FROM EXTERIOR OF ROOM
2. FIELD VERIFY ALL DIMENSIONS
3. ALL GLAZING TO BE 1/4" LAMINATED GLAZING UNITS UNO
4. ALL GLASS WITHIN 18" OF FLOOR, ALL GLASS IN DOORS, AND ALL GLASS WITHIN 24" OF A DOOR IN ANY POSITION SHALL BE LABELED AS SAFETY GLASS.
5. OVERALL DIMENSIONS INDICATE ROUGH OPENINGS, UNO
6. INTERMEDIATE DIMENSIONS ARE TO CENTERLINE OF MULLION, UNO
7. SEE A723 FOR TYPICAL INTERIOR STOREFRONT DETAILS
8. SEE A401 FOR EXTERIOR STOREFRONT DETAILS

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CONSULTANT'S LOGO

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #

**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com

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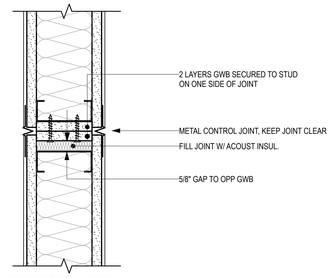
**STOREFRONT SCHEDULE**
Sheet Title

**A711**

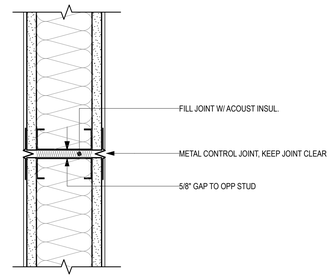
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## SEISMIC CEILING DETAILS SHEET NOTES

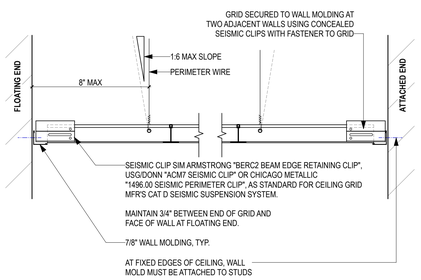
1. SUPPORT AND BRACE SUSPENDED CEILING GRID IN ACCORDANCE WITH IBC REQUIREMENTS FOR SEISMIC DESIGN CATEGORY D
2. LATERAL BRACING REQUIRED AT ALL CEILINGS EXCEPT IF SMALLER THAN 1000 SF AND SURROUNDED BY 4 WALLS WHICH ARE BRACED TO STRUCTURE
3. BRACING WIRES SHALL BE ATTACHED TO THE GRID AND TO THE STRUCTURE IN A MANNER WHICH WILL RESIST A DESIGN LOAD OF NOT LESS THAN 200 LBS OR THE ACTUAL DESIGN LOAD, WHICHEVER IS GREATER, WITH A SAFETY FACTOR OF 2
4. SEISMIC BRACING WIRES SHALL BE ATTACHED TO CONCRETE USING 5/16" MIN D.I.C.A. (SHOT-IN FASTENERS NOT PERMITTED FOR SEISMIC BRACING)
5. LATERAL BRACING MEMBERS SHALL BE SPACED A MINIMUM OF 6" FROM ALL PIPING AND DUCTWORK
6. LOCATE RESTRAINT POINTS NOT MORE THAN 12 FT O.C. EACH WAY WITH THE FIRST POINT WITHIN 6 FT OF EACH WALL
7. THE CEILING GRID SHALL BE ATTACHED TO THE WALL MOLDING AT TWO ADJACENT WALLS USING POP-RIVETS OR OTHER APPROVED METHOD. WALL MOLDING SHALL BE SECURED TO STUDS.
8. HANGER AND PERIMETER WIRES SHALL BE PLUMB WITHIN 1 IN 6 EXCEPT WHERE COUNTER SLOPING WIRES ARE PROVIDED
9. TERMINAL ENDS OF MAIN BEAMS AND CROSS TEES MUST BE SUPPORTED WITHIN 8" OF EACH WALL WITH A PERIMETER WIRE
10. CEILING DESIGN SHALL COMPLY WITH REQUIREMENTS OF IBC, ASTM C635, ASTM C636, ASCE 7-01, AND CISCA



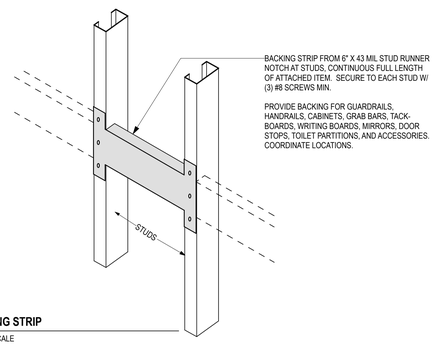

4 A721 **PLAN: CONTROL JOINT AT FIRE-RATED PARTITION - METAL**
SCALE 3" = 1'



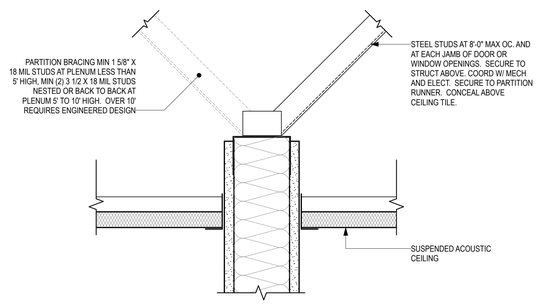

3 A721 **PLAN: CONTROL JOINT AT NON-RATED PARTITION**
SCALE 3" = 1'



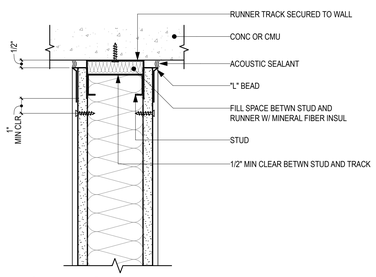

18 A721 **SEISMIC WALL MOLDING**
SCALE 3" = 1'



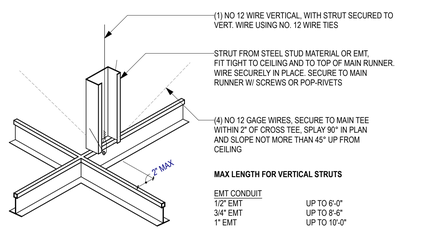

12 A721 **BACKING STRIP**
NOT TO SCALE




7 A721 **HEAD OF PARTITION 6" ABOVE CEILING**
SCALE 3" = 1'

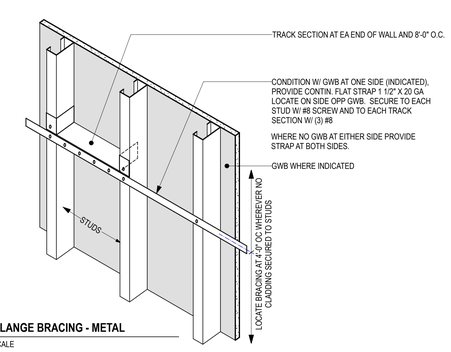



2 A721 **PLAN: RELIEF JOINT, PARTITION AT WALL OR COLUMN - METAL**
SCALE 3" = 1'

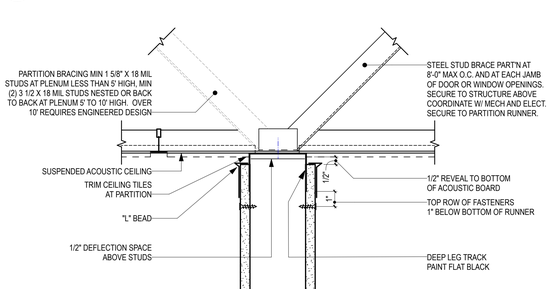



16 A721 **ACOUSTIC CEILING SEISMIC BRACING**
SCALE 3" = 1'

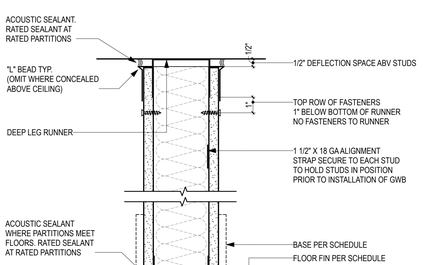
- FOR PLENUM HIGHER THAN 11'-0" SUBMIT STRUCT ENGINEER'S CALCS
- VERIFY DETAIL MEETS REQUIREMENTS OF THE SPECIFIED SEISMIC DESIGN CATEGORY (SEE STRUCTURAL)




11 A721 **STUD FLANGE BRACING - METAL**
NOT TO SCALE




6 A721 **HEAD OF PARTITION BELOW CEILING GRID**
SCALE 3" = 1'




1 A721 **TYPICAL HEAD/SILL OF METAL PARTITION**
SCALE 3" = 1'

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720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #

**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com

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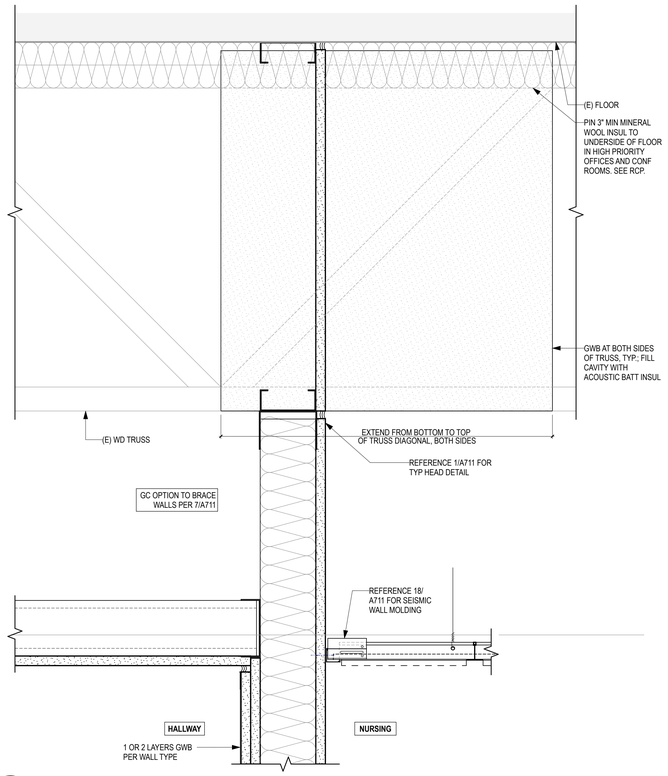
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Issue

**07/18/25**
Issue Date

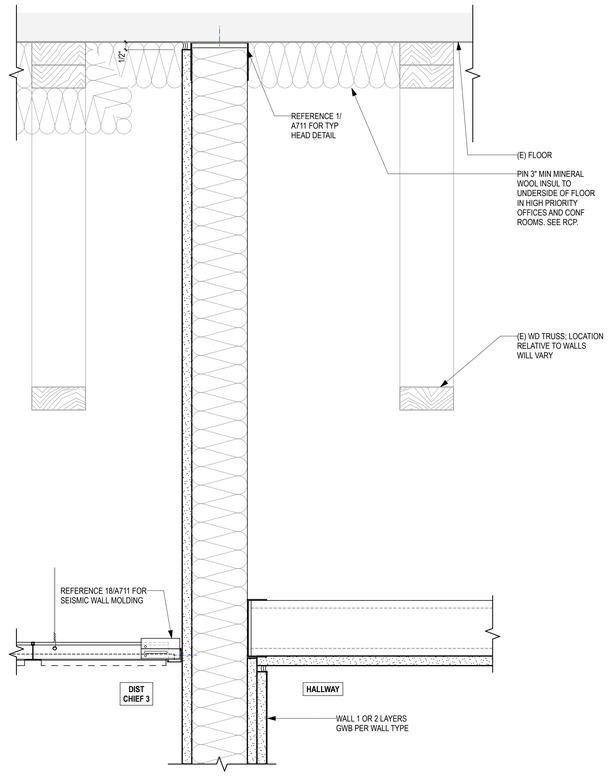
**INTERIOR DETAILS - FRAMING AND ACT**
Sheet Title

**A721**

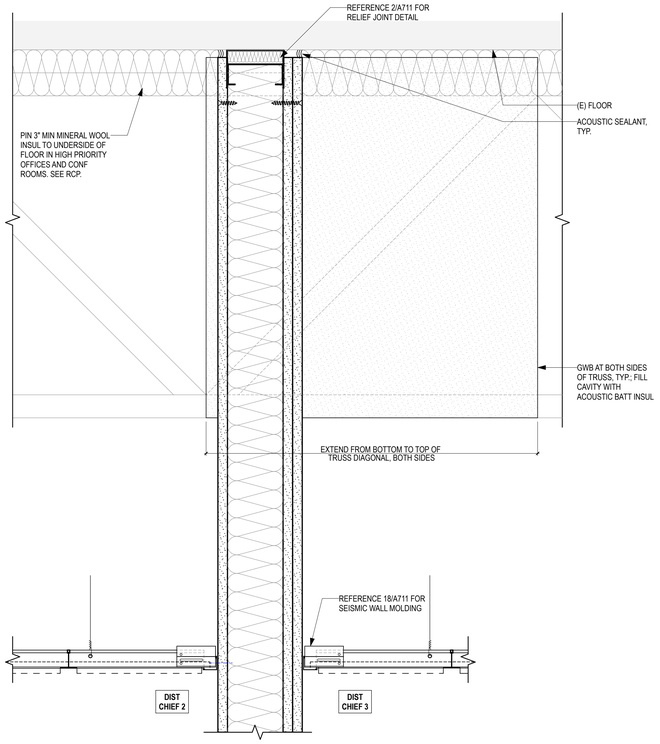
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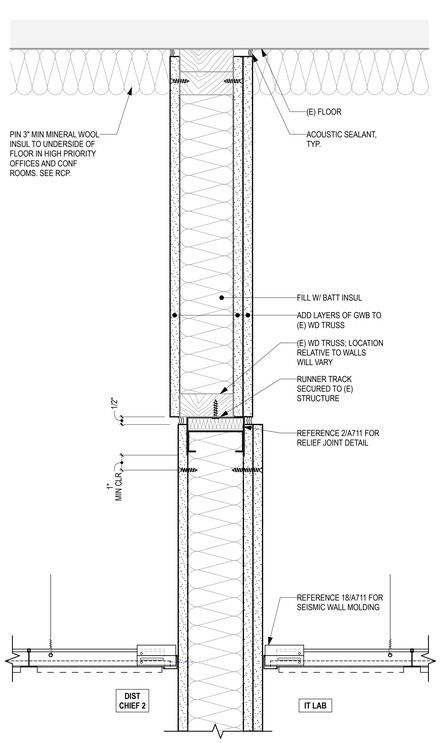

13 A722 **ACOUSTIC PARTITION @ HALLWAY PERPENDICULAR TO TRUSSES**
SCALE: 3" = 1'-0"



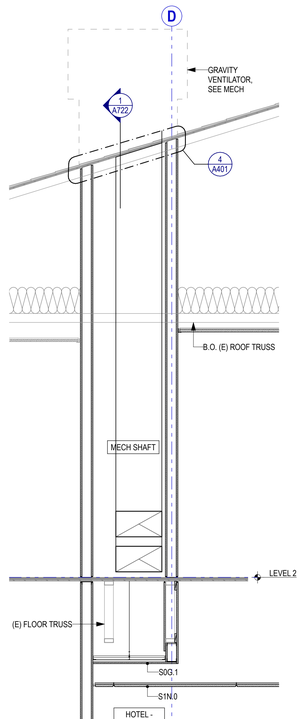

8 A722 **ACOUSTIC PARTITION @ HALLWAY PARALLEL TO TRUSSES**
SCALE: 3" = 1'-0"



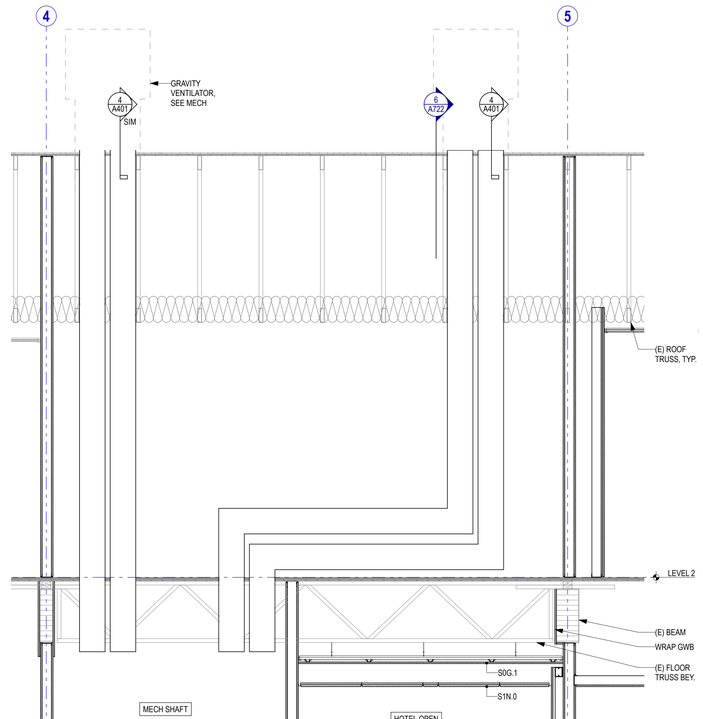

16 A722 **ACOUSTIC PARTITION @ OFFICES PERPENDICULAR TO TRUSSES**
SCALE: 3" = 1'-0"




11 A722 **ACOUSTIC PARTITION @ OFFICES PARALLEL TO TRUSSES**
SCALE: 3" = 1'-0"




6 A722 **MECHANICAL SHAFT E/W**
SCALE: 1/2" = 1'-0"




1 A722 **MECHANICAL SHAFT N/S**
SCALE: 1/2" = 1'-0"

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720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #

**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
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www.weinsteinau.com

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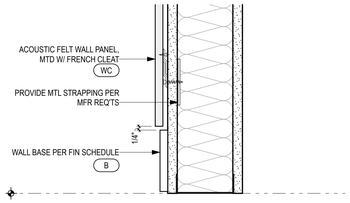
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Issue

**07/18/25**
Issue Date

**INTERIOR DETAILS - PARTITIONS & SHAFTS**
Sheet Title

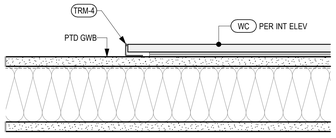
**A722**

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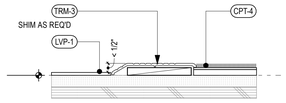

**20 / A723** ACOUSTIC FELT WALL PANEL SECTION DETAIL

SCALE: 3" = 1'-0"



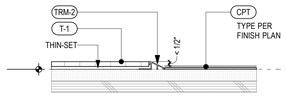

**19 / A723** ACOUSTIC FELT WALL PANEL PLAN DETAIL

SCALE: 3" = 1'-0"



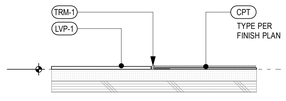

**18 / A723** FLOOR FINISH TRANSITION DETAIL - LVL 2 CARPET TO LVP

SCALE: 3" = 1'-0"



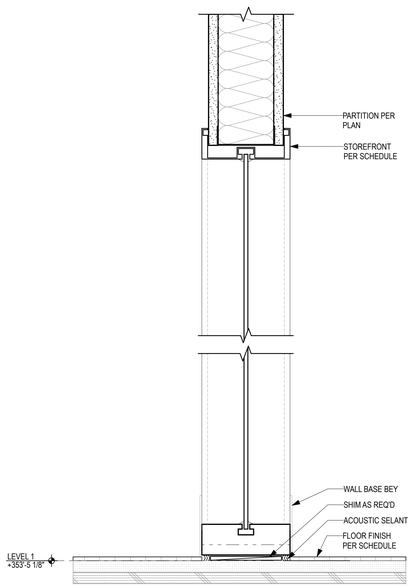

**17 / A723** FLOOR FINISH TRANSITION DETAIL - TILE TO CARPET

SCALE: 3" = 1'-0"



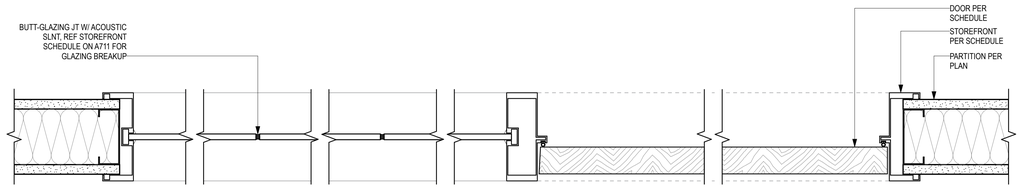

**16 / A723** FLOOR FINISH TRANSITION DETAIL - CARPET TO LVP

SCALE: 3" = 1'-0"



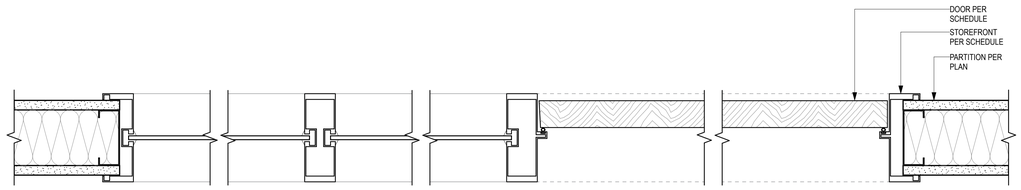

**11 / A723** INTERIOR STOREFRONT - TYPICAL SECTION DETAIL

SCALE: 3" = 1'-0"




**2 / A723** INTERIOR STOREFRONT - BUTT GLAZING PLAN DETAIL

SCALE: 3" = 1'-0"




**1 / A723** INTERIOR STOREFRONT - TYPICAL PLAN DETAILS

SCALE: 3" = 1'-0"

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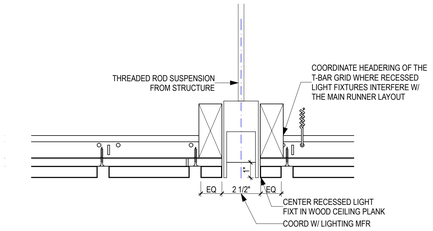
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**07/18/25**
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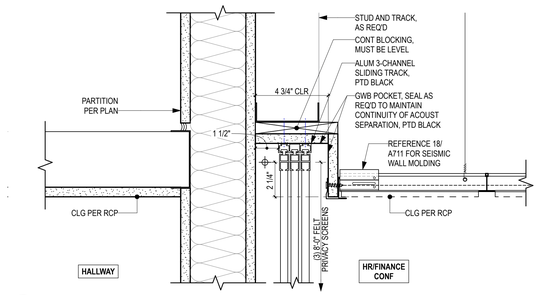
**INTERIOR DETAILS - STOREFRONT & TRIM DETAILS**
Sheet Title

**A723**

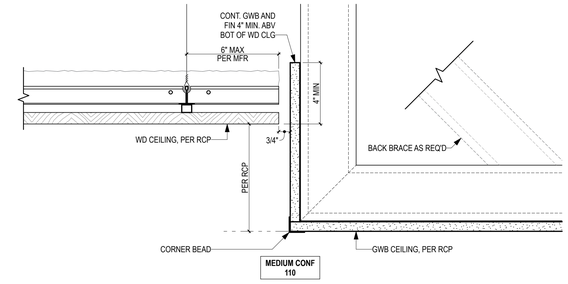
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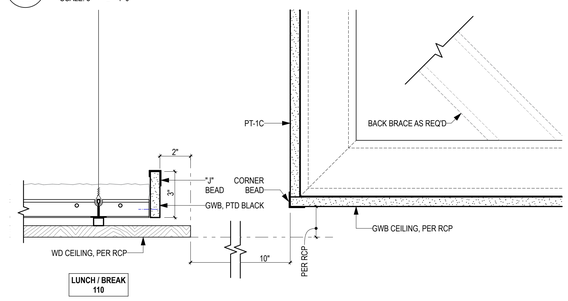

**19 / A724** LIGHT FIXTURE IN LINEAR WOOD CEILING
SCALE: 3" = 1'-0"



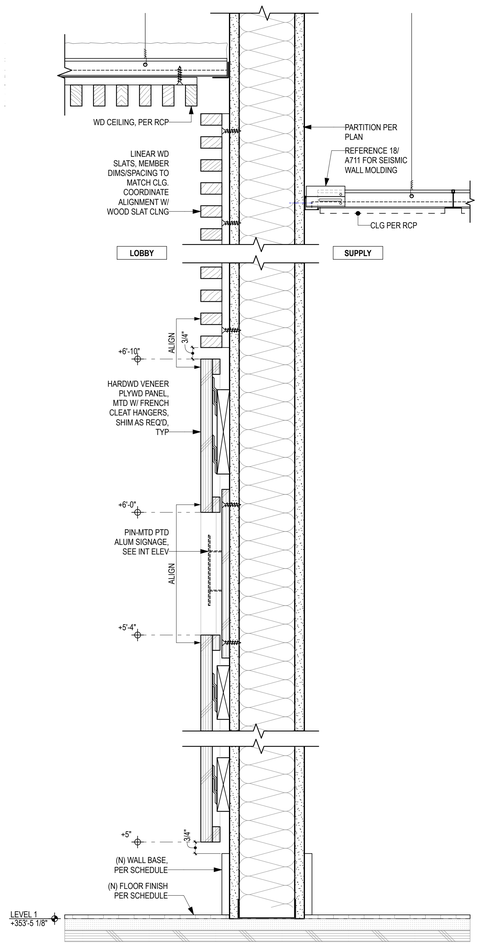

**14 / A724** CLG-MTD TRACK - HR/FINANCE CONF 106
SCALE: 3" = 1'-0"



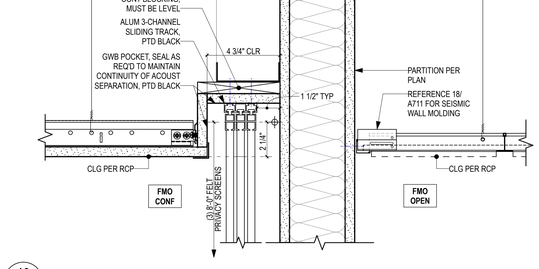

**5 / A724** CLG TRANSITION - MEDIUM CONF 114
SCALE: 3" = 1'-0"



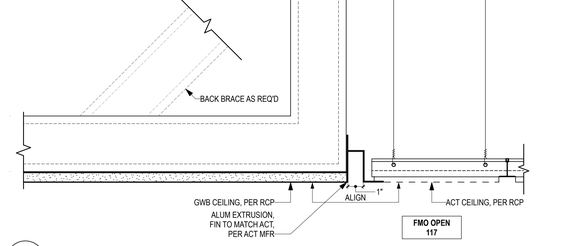

**4 / A724** CLG TRANSITION - LUNCH 110 - HALLWAY
SCALE: 3" = 1'-0"



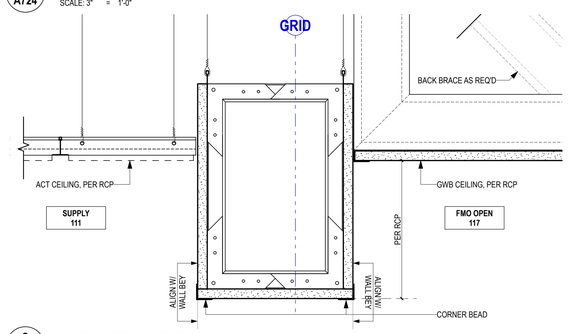

**16 / A724** CLG TO WALL TRANSITION - LOBBY 102
SCALE: 3" = 1'-0"



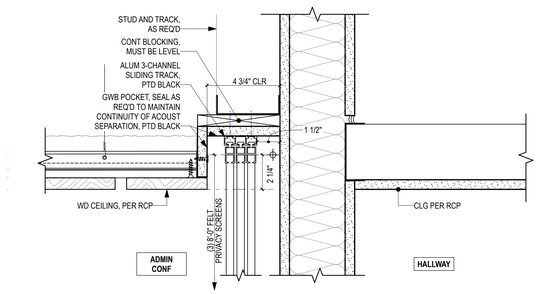

**13 / A724** CLG-MTD TRACK - FMO CONF 118
SCALE: 3" = 1'-0"

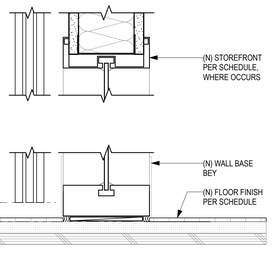



**3 / A724** CLG TRANSITION - GYP TO ACT
SCALE: 3" = 1'-0"

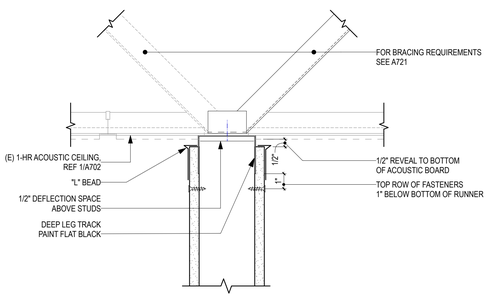



**2 / A724** CLG TRANSITION - ACT-GYP W/ BULKHEAD
SCALE: 3" = 1'-0"

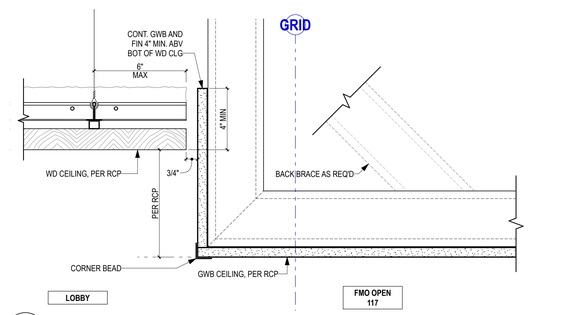



**11 / A724** CLG-MTD TRACK - ADMIN CONF 128 - HEAD/TYP SILL DETAIL
SCALE: 3" = 1'-0"




**6 / A724** CLG DETAIL - HEAD OF PARTITION BELOW (E) 1-HR RATED ACT CLG
SCALE: 3" = 1'-0"




**1 / A724** CLG TRANSITION - LOBBY 102 - FMO 117
SCALE: 3" = 1'-0"

## SEISMIC CEILING DETAILS SHEET NOTES

1. SUPPORT AND BRACE SUSPENDED CEILING GRID IN ACCORDANCE WITH IBC REQUIREMENTS FOR SEISMIC DESIGN CATEGORY D
2. LATERAL BRACING REQUIRED AT ALL CEILINGS EXCEPT IF SMALLER THAN 1000 SF AND SURROUNDED BY 4 WALLS WHICH ARE BRACED TO STRUCTURE
3. BRACING WIRES SHALL BE ATTACHED TO THE GRID AND TO THE STRUCTURE IN A MANNER WHICH WILL RESIST A DESIGN LOAD OF NOT LESS THAN 200 LBS OR THE ACTUAL DESIGN LOAD, WHICHEVER IS GREATER, WITH A SAFETY FACTOR OF 2
4. SEISMIC BRACING WIRES SHALL BE ATTACHED TO CONCRETE USING 5/16" MIN D.I.C.A. (SHOT-IN FASTENERS NOT PERMITTED FOR SEISMIC BRACING)
5. LATERAL BRACING MEMBERS SHALL BE SPACED A MINIMUM OF 6" FROM ALL PIPING AND DUCTWORK
6. LOCATE RESTRAINT POINTS NOT MORE THAN 12 FT O.C. EACH WAY WITH THE FIRST POINT WITHIN 6 FT OF EACH WALL
7. THE CEILING GRID SHALL BE ATTACHED TO THE WALL MOLDING AT TWO ADJACENT WALLS USING POP-RIVETS OR OTHER APPROVED METHOD. WALL MOLDING SHALL BE SECURED TO STUDS.
8. HANGER AND PERIMETER WIRES SHALL BE PLUMB WITHIN 1 IN 6 EXCEPT WHERE COUNTER SLOPING WIRES ARE PROVIDED
9. TERMINAL ENDS OF MAIN BEAMS AND CROSS TEES MUST BE SUPPORTED WITHIN 8" OF EACH WALL WITH A PERIMETER WIRE
10. CEILING DESIGN SHALL COMPLY WITH REQUIREMENTS OF IBC, ASTM C635, ASTM C636, ASCE 7-01, AND CISCA

| Rev | Date | Issue |
|---|---|---|

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**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #

**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com

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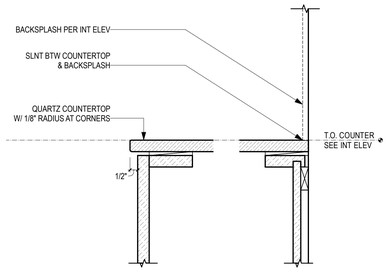
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**INTERIOR DETAILS - CEILING DETAILS**
Sheet Title

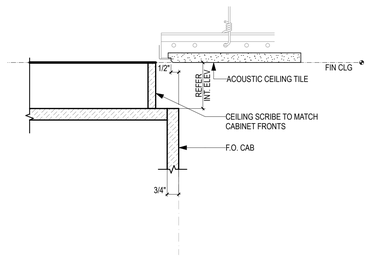
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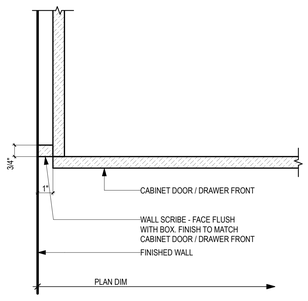

**14 / A801** SECTION DETAIL - SOLID SURFACE COUNTER

SCALE: 3" = 1'-0"



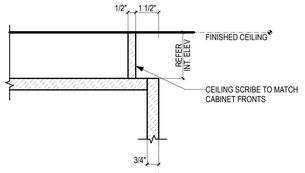

**13 / A801** SECTION DETAIL - TYP CEILING SCRIBE AT ACT

SCALE: 3" = 1'-0"



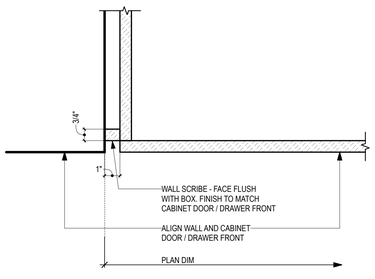

**17 / A801** PLAN DETAIL - TYP PERPENDICULAR SCRIBE

SCALE: 3" = 1'-0"



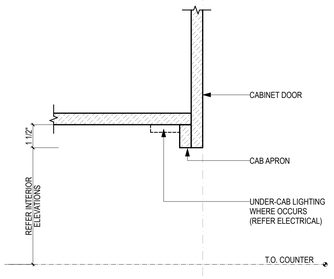

**12 / A801** SECTION DETAIL - TYP CEILING SCRIBE

SCALE: 3" = 1'-0"



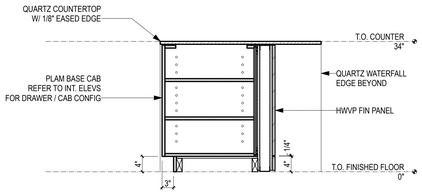

**16 / A801** PLAN DETAIL - TYP PARALLEL SCRIBE

SCALE: 3" = 1'-0"



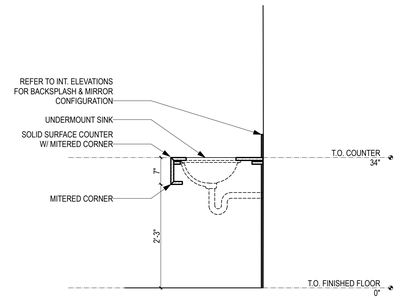

**11 / A801** SECTION DETAIL - TYP UPPER CAB APRON

SCALE: 3" = 1'-0"



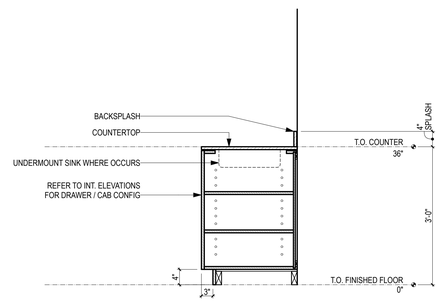

**7 / A801** SECTION DETAIL - LUNCH ROOM ISLAND

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



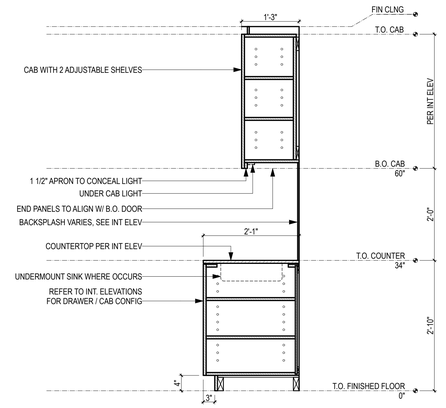

**2 / A801** SECTION DETAIL - TYP RESTROOM VANITY

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




**6 / A801** SECTION DETAIL - TYP CONF RM KITCHENETTE

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




**1 / A801** SECTION DETAIL - TYP CASEWORK, ACCESSIBLE HEIGHT

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

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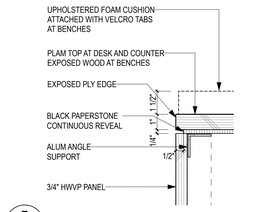
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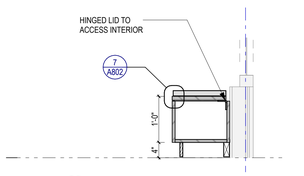
**MILLWORK DETAILS**
Sheet Title

**A801**

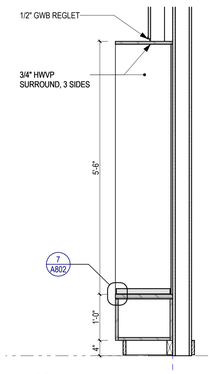
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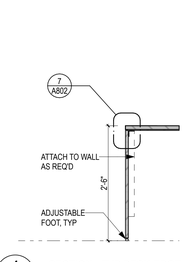

7 A802 **TYP EDGE DTL**
SCALE: 3" = 1'-0"



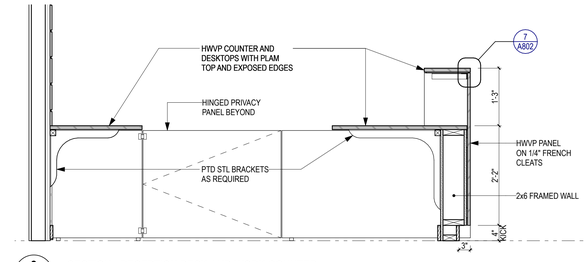

6 A802 **SECTION - STORAGE BENCH**
SCALE: 3/4" = 1'-0"



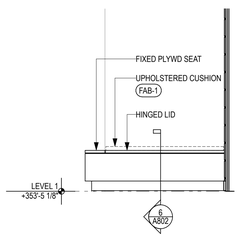

5 A802 **SECTION - GUEST BENCH SECTION**
SCALE: 3/4" = 1'-0"



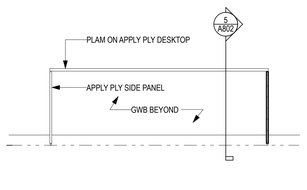

4 A802 **SECTION - TYP DESK EDGE**
SCALE: 3/4" = 1'-0"



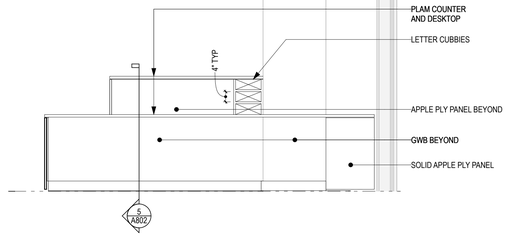

3 A802 **SECTION - RECEPTION DESK AND WORK COUNTER**
SCALE: 3/4" = 1'-0"



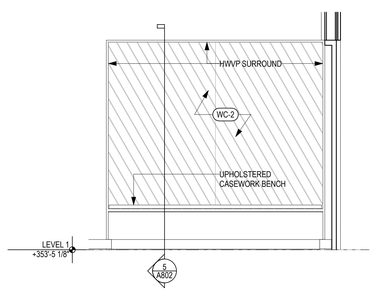

06 **1/2" = 1'-0"**



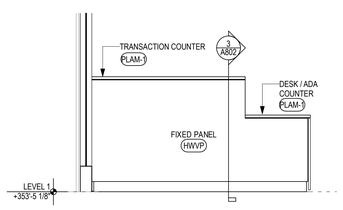

05 **1/2" = 1'-0"**



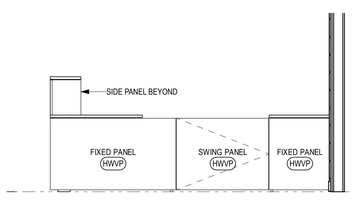

04 **1/2" = 1'-0"**



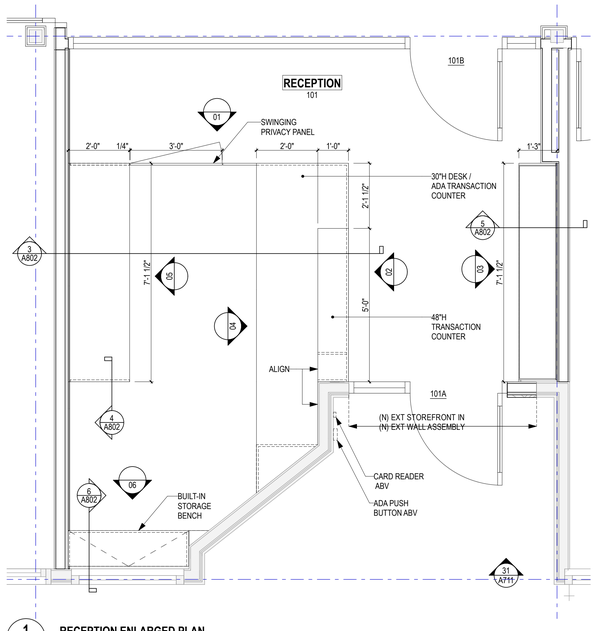

03 **1/2" = 1'-0"**




02 **1/2" = 1'-0"**




01 **1/2" = 1'-0"**




1 A802 **RECEPTION ENLARGED PLAN**
SCALE: 1/2" = 1'-0"

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**MILLWORK DETAILS - RECEPTION**
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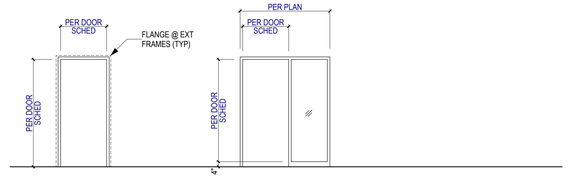
**A802**

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## A901- DOOR SCHEDULE

| STORY | DOOR No. | LOCATION | PANEL ELEV | LEAF | | | | | FRAME | | | HARDWARE | FIRE RATING | GLAZING TYPE | U-FACTOR | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SIZE | THICKNESS | No. OF PANELS | MATERIAL | FINISH | TYPE | MATERIAL | FINISH | | | | | |
| **GARAGE** | | | | | | | | | | | | | | | | |
| | E-G02 | (E) MECH/ STOR | EXISTING | 3'-0"x6'-8" | EXISTING | 1 | HM | PT | 1 | HM | PT | 15 | NOT RATED | N/A | N/A | EXISTING DOOR: INSTALL NEW HARDWARE & CR |
| | E-G07 | (E) STORAGE | A | 3'-0"x6'-8" | EXISTING | 1 | HM | PT | 1 | HM | PT | 11 | NOT RATED | N/A | N/A | EXISTING DOOR: INSTALL NEW HARDWARE & CR |
| | E-G08 | (E) ELEC RM | EXISTING | 3'-0"x6'-8" | EXISTING | 1 | HM | PT | 1 | HM | PT | 11 | NOT RATED | N/A | N/A | EXISTING DOOR: INSTALL NEW HARDWARE & CR |
| | E-GS2 | STAIR 2 | EXISTING | 3'-7"x6'-8" | EXISTING | 1 | WD | CLR | 1 | HM | PT | 11 | 60 MIN | N/A | N/A | EXISTING DOOR: INSTALL NEW HARDWARE & CR |
| | G01 | GARAGE | F | --- | 1 3/4" | 1 | AL | ANO | Select from List | Select from List | Select from List | BY MANUF | NOT RATED | N/A | N/A | OVERHEAD COILING DOOR, STRAIGHT LATTICE PATTERN |
| | G10 | SPRINKLER RM | A | 3'-0"x6'-8" | 1 3/4" | 1 | HM | PT | 1 | HM | PT | 13 | NOT RATED | N/A | N/A | |
| **LEVEL 1** | | | | | | | | | | | | | | | | |
| | 101A | ENTRY | E | 3'-0"x6'-8" | 1 3/4" | 1 | AL | ANO | 2A | AL | ANO | 01 | NOT RATED | INSULATED | 0.55 | CR, EXIT, POWER OPERATOR |
| | 101B | RECEPTION | D | 3'-0"x6'-8" | 1 3/4" | 1 | AL | ANO | 2 | AL | ANO | 02 | NOT RATED | LAMINATED | N/A | CR, EXIT, POWER OPERATOR |
| | 104 | FINANCE/SUPPLY | B1 | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 1 | HM | PT | 03 | NOT RATED | LAMINATED | N/A | |
| | 105 | FINANCE OFFICE | D | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 04 | NOT RATED | LAMINATED | N/A | |
| | 106 | HR/FINANCE CONF | D | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 05 | NOT RATED | LAMINATED | N/A | |
| | 107 | HR OFFICE | D | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 05 | NOT RATED | LAMINATED | N/A | ACOUSTIC |
| | 109A | HALLWAY | D | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 03 | NOT RATED | LAMINATED | N/A | |
| | 109B | HALLWAY | D | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 03 | NOT RATED | LAMINATED | N/A | |
| | 110 | HR/BREAK | D | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 03 | NOT RATED | LAMINATED | N/A | |
| | 112 | QUIET RM | A | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 1 | HM | PT | 06 | NOT RATED | N/A | N/A | |
| | 113 | NURSING RM | A | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 1 | HM | PT | 06 | NOT RATED | N/A | N/A | |
| | 114 | MEDIUM CONF | D | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 05 | NOT RATED | LAMINATED | N/A | |
| | 115 | SMALL CONF | D | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 05 | NOT RATED | LAMINATED | N/A | |
| | 118 | FMO CONF | A | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 05 | NOT RATED | LAMINATED | N/A | |
| | 119 | FMO OFFICE 2 | A | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 04 | NOT RATED | LAMINATED | N/A | |
| | 120 | FMO OFFICE 1 | A | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 04 | NOT RATED | LAMINATED | N/A | |
| | 121A | HALLWAY | B1 | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 1 | HM | PT | 07 | 60 MIN | FIRE RATED | N/A | CR, EXIT |
| | 126 | STORAGE | A | 6'-0"x6'-8" | 1 3/4" | 2 | WD | CLR | 1 | HM | PT | 08 | NOT RATED | N/A | N/A | PROVIDE 1/4" UNDERCUT, CR |
| | 128 | ADMIN CONF | D | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 05 | NOT RATED | LAMINATED | N/A | ACOUSTIC |
| | 129A | COFFEE/HALLWAY | D | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 03 | NOT RATED | LAMINATED | N/A | |
| | 129B | HALLWAY | D | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 03 | NOT RATED | LAMINATED | N/A | |
| | 130 | EXEC DIRECTOR | A | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 14 | NOT RATED | N/A | N/A | ACOUSTIC |
| | 131 | EXEC. SECRETARY | A | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 04 | NOT RATED | N/A | N/A | |
| | 131A | EXEC. SECRETARY | A | 5'-8"x6'-8" | 1 3/4" | 2 | WD | CLR | 1 | HM | PT | 09 | NOT RATED | N/A | N/A | PROVIDE 1/4" UNDERCUT |
| | 131B | EXEC. SECRETARY | A | 5'-8"x6'-8" | 1 3/4" | 2 | WD | CLR | 1 | HM | PT | 09 | NOT RATED | N/A | N/A | PROVIDE 1/4" UNDERCUT |
| | 132 | DIST CHIEF 1 | A | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 04 | NOT RATED | N/A | N/A | |
| | 133 | CHIEF | A | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 14 | NOT RATED | N/A | N/A | ACOUSTIC |
| | 134 | DIST CHIEF 2 | A | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 04 | NOT RATED | N/A | N/A | |
| | 135 | ASST. CHIEF | A | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 14 | NOT RATED | N/A | N/A | ACOUSTIC |
| | 136 | DIST CHIEF 3 | A | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 04 | NOT RATED | N/A | N/A | |
| | 137 | DEPUTY 1 | A | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 04 | NOT RATED | N/A | N/A | |
| | 138 | DEPUTY 3 | A | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 04 | NOT RATED | N/A | N/A | |
| | 139 | DEPUTY 2 | A | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 04 | NOT RATED | N/A | N/A | |
| | 140 | DIR ENT SERV | D | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 04 | NOT RATED | LAMINATED | N/A | |
| | 141 | STORAGE | A | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 1 | HM | PT | 12 | NOT RATED | N/A | N/A | PROVIDE 1/4" UNDERCUT, CR |
| | 143 | IT LAB | D | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 1 | AL | ANO | 12 | NOT RATED | LAMINATED | N/A | |
| | 144 | IT DIRECTOR | A | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 2 | AL | ANO | 04 | NOT RATED | N/A | N/A | |
| | E-1S2A | STAIR 2 | E | 3'-7"x6'-8" | EXISTING | 1 | AL | PT | 1 | WD | CLR | 16 | 60 MIN | N/A | N/A | EXISTING DOOR: INSTALL NEW HARDWARE & CR |
| | E-1S2B | STAIR 2 | A | 3'-0"x6'-8" | EXISTING | 1 | WD | CLR | 1 | WD | EXISTING | 16 | 60 MIN | N/A | N/A | EXISTING DOOR: INSTALL NEW HARDWARE & CR |
| | E-122 | MECH | A | 3'-0"x6'-8" | EXISTING | 1 | WD | PT | 1 | WD | PT | 11 | NOT RATED | N/A | N/A | EXISTING DOOR: PAINT DOOR & TRIM PT-1A , INSTALL NEW HARDWARE & CR |
| | E-123 | WOMEN | A | 3'-0"x6'-8" | EXISTING | 1 | WD | PT | 1 | WD | PT | 18 | NOT RATED | N/A | N/A | EXISTING DOOR: PAINT DOOR & TRIM PT-1A, INSTALL NEW HARDWARE |
| | E-124 | JAN | A | 3'-0"x6'-8" | EXISTING | 1 | WD | PT | 1 | WD | PT | 5 | NOT RATED | N/A | N/A | EXISTING DOOR: PAINT DOOR & TRIM PT-1A, INSTALL NEW HARDWARE |
| | E-125 | MEN | A | 3'-0"x6'-8" | EXISTING | 1 | WD | PT | 1 | WD | PT | 18 | NOT RATED | N/A | N/A | EXISTING DOOR: PAINT DOOR & TRIM PT-1A, INSTALL NEW HARDWARE |
| | E-145 | FOYER | E | 6'-0"x6'-8" | EXISTING | 2 | AL | ANO | 2A | AL | ANO | EXISTING | NOT RATED | LAMINATED | N/A | EXISTING EXTERIOR STOREFRONT DOOR: INSTALL NEW CR |
| **LEVEL 2** | | | | | | | | | | | | | | | | |
| | 201 | CONF | D | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 1 | WD | PT | 11 | 20 MIN | FIRE RATED | N/A | NEW DOOR & FRAME IN EXISTING OPNG, CR |
| | 202 | KITCHEN | B2 | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 1 | HM | PT | 03 | NOT RATED | LAMINATED | N/A | |
| | 204 | DOAS CLOSET | A | 3'-0"x6'-8" | 1 3/4" | 1 | HM | PT | 1 | HM | PT | 12 | 20 MIN | N/A | N/A | CR |
| | 221 | OFFICE | B1 | 3'-0"x6'-8" | 1 3/4" | 1 | WD | CLR | 1 | HM | PT | 03 | NOT RATED | LAMINATED | N/A | |
| | 223A | WOMEN SHOWER | A | 2'-10"x6'-8" | 1 3/4" | 1 | WD | CLR | 1 | HM | PT | 06 | NOT RATED | N/A | N/A | |
| | 225A | MEN SHOWER | A | 2'-10"x6'-8" | 1 3/4" | 1 | WD | CLR | 1 | HM | PT | 06 | NOT RATED | N/A | N/A | |
| | E-2S1 | STAIR | A | 3'-0"x6'-8" | EXISTING | 1 | WD | CLR | 1 | WD | CLR | 16 | 60 MIN | FIRE RATED | N/A | EXISTING DOOR: ADD CR |
| | E-2S2 | STAIR | A | 3'-0"x6'-8" | EXISTING | 1 | WD | CLR | 1 | HM | PT | 16 | 60 MIN | FIRE RATED | N/A | EXISTING DOOR: ADD CR |
| | E-203 | MECH/ ELEC | A | 3'-0"x6'-8" | EXISTING | 1 | WD | CLR | 1 | WD | CLR | 11 | NOT RATED | N/A | N/A | EXISTING DOOR: ADD CR |
| | E-223 | WOMEN | A | 3'-0"x6'-8" | EXISTING | 1 | WD | CLR | 1 | WD | CLR | 18 | NOT RATED | N/A | N/A | EXISTING DOOR: REFINISH DOOR & TRIM INSTALL NEW HARDWARE |
| | E-225 | MEN | A | 3'-0"x6'-8" | EXISTING | 1 | WD | CLR | 1 | WD | CLR | 18 | NOT RATED | N/A | N/A | EXISTING DOOR: REFINISH DOOR & TRIM, INSTALL NEW HARDWARE |

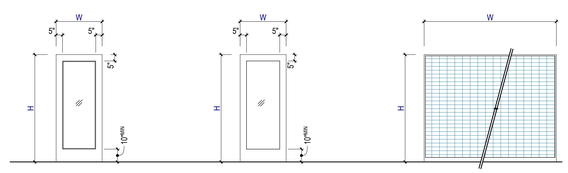
1 A901 **FULL DOOR SCHEDULE**
SCALE: 1' = 1'-0"




**1** DOUBLE RABETTED
**1A** THERMAL BREAK

**2** SIDE LITE
**2A** THERMAL BREAK

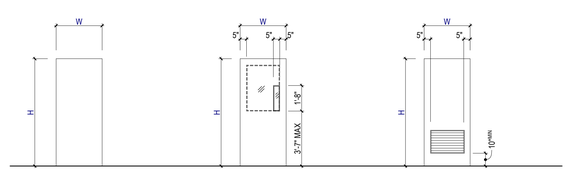
2 A901 **TYPICAL DOOR FRAMES**
SCALE: 1/4" = 1'




**D** FULL LITE

**E** STOREFRONT DOOR

**F** COILING OVERHEAD DOOR




**A** FLUSH PANEL

**B** VISION LITE
**B1** NARROW
**B2** WIDE

**C** LOUVER

1 A901 **TYPICAL DOOR LEAFS**
SCALE: 1/4" = 1'

## DOOR SCHEDULE NOTES

1. FOR LIST OF ABBREVIATIONS SEE COVER SHEET **G001**
2. ENERGY CODE COMPLIANCE:

   **ALUMINUM STOREFRONT DOORS:**
   • NFRC CPD LABEL CERTIFICATE REQUIRED DOCUMENTING U-VALUES LISTED IN DOOR SCHEDULE.
   • MAX INFILTRATION RATE NOT TO EXCEED 1.0 CFM/SF TESTED @ 1.57 PSF PER NFRC400 or AAMA/WDMA/ CSA101/I/S2/A440 or ASTM E283 PER WSEC C103.6.3.
3. GC TO COORDINATE WITH STOREFRONT SYSTEM WHERE APPLICABLE
4. PROVIDE PERIMETER GASKET AIR SEALS.
5. GC TO VERIFY ALL ROUGH OPENINGS AND WALL THICKNESSES
6. PROVIDE DOOR STOPS WHERE REQUIRED TO PROTECT DOOR OR ADJ SURFACES. CONFIRM LOCATIONS WITH ARCHITECT. REFER TO 08 71 00 DOOR HARDWARE

## GLASS TYPES

AS SCHEDULED

ALL GLASS WITHIN 18" OF FLOOR, ALL GLASS IN DOORS, AND ALL GLASS WITHIN 24" OF A DOOR IN ANY POSITION SHALL BE LABELED AS SAFETY GLASS.

WHERE FIRE-RATED GLASS IS REQUIRED, LOCATIONS REQUIRING SAFETY GLASS SHALL BE LABELED FOR BOTH FIRE AND SAFETY

| Rev | Date | Issue |
|---|---|---|

CONSULTANT'S LOGO

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #


**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com



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3300 REGISTERED ARCHITECT
EDWARD WEINSTEIN
State of Washington

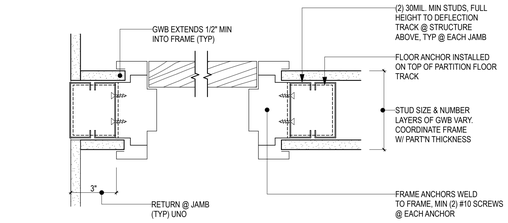
**BID SET**
Issue

**07/18/25**
Issue Date

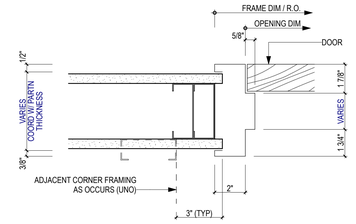
**DOOR SCHEDULE**
Sheet Title

**A901**

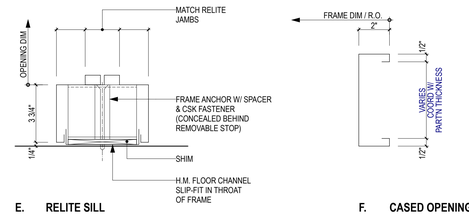

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5 A911 **HOLLOW METAL FRAME @ METAL STUD WALL**
SCALE: 3" = 1'-0"

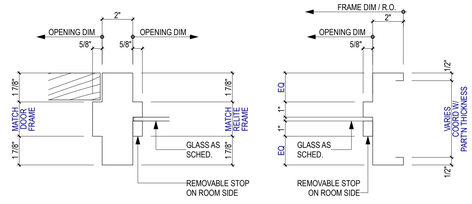



4 A911 **TYPICAL HOLLOW METAL FRAME PROFILE**
SCALE: 3" = 1'-0"



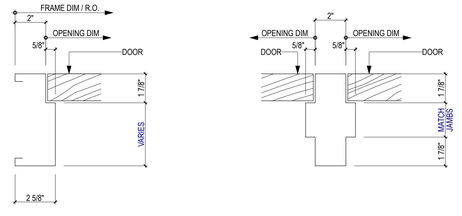

E. **RELITE SILL** F. **CASED OPENING**

3 A911 **TYPICAL HOLLOW METAL FRAME PROFILES**
SCALE: 3" = 1'-0"



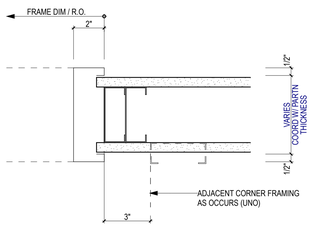

C. **JAMB AT RELITE** D. **RELITE JAMB**

2 A911 **TYPICAL HOLLOW METAL FRAME PROFILES**
SCALE: 3" = 1'-0"




A. **JAMB** B. **FIXED MULLION**

1 A911 **TYPICAL HOLLOW METAL FRAME PROFILES**
SCALE: 3" = 1'-0"




6 A911 **HOLLOW METAL FRAME @ CASED OPENING (MTL)**
SCALE: 3" = 1'-0"

## DOOR SCHEDULE NOTES

1. FOR LIST OF ABBREVIATIONS SEE COVER SHEET **G001**
2. ENERGY CODE COMPLIANCE:

   **ALUMINUM STOREFRONT DOORS:**
   • NFRC CPD LABEL CERTIFICATE REQUIRED DOCUMENTING U-VALUES LISTED IN DOOR SCHEDULE.
   • MAX INFILTRATION RATE NOT TO EXCEED 1.0 CFM/SF TESTED @ 1.57 PSF PER NFRC400 or AAMA/WDMA/ CSA101/I/S2/A440 or ASTM E283 PER WSEC C103.6.3.
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| Rev | Date | Issue |
|---|---|---|

CONSULTANT'S LOGO

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #

**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com

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3300 REGISTERED ARCHITECT
EDWARD WEINSTEIN
State of Washington

**BID SET**
Issue

**07/18/25**
Issue Date

**DOOR DETAILS**
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**FF&E SCHEDULE: SOUTH KING FIRE ADMINISTRATION BUILDING IMPROVEMENTS**

| SUBJECT | LOCATION | ITEM | SPECIFICATION | FINISH | COLOR | NOTES |
|---|---|---|---|---|---|---|
| | | | | | | SEE FINISH FLOOR PLANS AND INTERIOR ELEVATIONS FOR LOCATIONS AND EXTENTS. PRE-INSTALLATION CONFERENCE REQUIRED. |
| **PAINT** | | | | | | |
| **PT-1** | THROUGHOUT | PAINT | BENJAMIN MOORE | A - WALLS: EGGSHELL<br>B - TRIM/BASE/DOOR: SEMI-GLOSS<br>C - CEILING: FLAT<br>D- RESTROOM WALLS & CEILINGS: SATIN | SIMPLY WHITE: OC-117 | TRIM TO MATCH ADJACENT WALL COLOR |
| **PT-2** | LACTATION ROOM | PAINT | BENJAMIN MOORE | A - WALLS: EGGSHELL<br>B - TRIM/BASE/DOOR: SEMI-GLOSS | SAYBROOK SAGE HC-114 | TRIM TO MATCH ADJACENT WALL COLOR |
| **PT-3** | QUIET ROOM | PAINT | BENJAMIN MOORE | A - WALLS: EGGSHELL<br>B - BASE: SEMI-GLOSS | MINERAL ALLOY 1622 | TRIM TO MATCH ADJACENT WALL COLOR |
| **PT-4** | ADMIN COFFEE | ACCENT PAINT ABOVE BACKSPLASH | BENJAMIN MOORE | A - WALLS: EGGSHELL | TEMPLETON GRAY HC-161 | |
| **PT-5** | ENTRY RAMP | HANDRAIL & POSTS | SHERWIN WILLIAMS | | IRON ORE SW7069 | |
| **PT-6** | SOUTH ENTRY | WOOD SIDING PAINT | SHERWIN WILLIAMS | MATCH EXISTING | ROYCROFT MIST GRAY SW2844 | AS REQUIRED FOR PATCH & REPAIR MATCH EXISTING |
| **PT-7** | LOBBY SIGNAGE | POWDER-COATED METAL LETTERS | BENJAMIN MOORE | SEMI-GLOSS | RAL 3003 | |
| **PT-8** | FOYER, L2 HALLWAY | PAINT | MATCH EXISTING | MATCH EXISTING | MATCH EXISTING | PAINT AFFECTED WALLS ONLY |
| **PT-9** | MEDIUM CONFERENCE ROOM | PAINT | SHERWIN WILLIAMS | A - WALLS: EGGSHELL<br>B - TRIM/BASE: SEMI-GLOSS | SW7075 WEB GRAY | |
| **ST-1** | EXISTING WINDOW TRIM THROUGHOUT | STAIN | TBD | CLEAR-COAT | MATCH EXISTING | REFINISH EXISTING WINDOW TRIM, UNO |
| **CARPET** | | | | | | |
| **CPT-1** | HALLWAYS, SMALL CONF, MEDIUM CONF, ADMIN CONF | CARPET TILE W/ ATTACHED WELLBAC COMFORT CUSHION | MFR: MILLIKEN<br>STYLE: JOURNAL, INSCRIPTION | | QUILL WITH PUNCH AND CARBON ACCENTS | ASHLAR INSTALLATION |
| **CPT-2** | QUIET RM, LACTATION RM, PRIVATE OFFICES | CARPET TILE W/ ATTACHED WELLBAC COMFORT CUSHION | MFR: MILLIKEN<br>STYLE: JOURNAL, INSCRIPTION | | QUILL | ASHLAR INSTALLATION |
| **CPT-3** | LOBBY ACCENT | BROADLOOM CARPET | MFR: SHAW CONTRACT<br>STYLE: NOBLE MATERIALS, FAULT | | FORGE PLATINUM OR TALC PLATINUM | INSTALL METAL EDGE TRIM PER DETAIL |
| **CPT-4** | L2 LARGE CONF RM | BROADLOOM CARPET | MFR: SHAW CONTRACT<br>STYLE: NOBLE MATERIALS, STRATA | | CORNERSTONE | MIN 40 OZ/YD<br>INSTALL OVER THICK CARPET CUSHION |
| **MAT-1** | RECEPTION | WALK-OFF MAT | PEDIMAT M1 | | TBD BY ARCH FROM MFR STANDARD | |

**INTERIOR FINISHES SCHEDULE**

| Home Story Name | Zone Number | ROOM NAME | FLOORING | CEILING | NORTH WALL | EAST WALL | SOUTH WALL | WEST WALL | BASE | EXT WINDOW FIN | WINDOW TREATMENT | OTHER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LEVEL 1 | | | | | | | | | | | | |
| | | (E) STORAGE | EXISTING | EXISTING | EXISTING | EXISTING | EXISTING | EXISTINGE | EXISTING | - | | |
| | | (E) VESTIBULE | EXISTING | EXISTING | EXISTING | EXISTING | EXISTING | EXISTING | EXISTING | - | | |
| | 1S1 | STAIR | EXISTING | EXISTING | EXISTING | EXISTING | EXISTING | EXISTING | EXISTING | - | | |
| | 1S2 | STAIR | EXISTING | EXISTING | EXISTING | EXISTING | EXISTING | EXISTING | EXISTING | - | | |
| | 101 | RECEPTION | LVP-1; MAT-1 | ACT-1; GWB | PT-1A, SF | PT-1A, HWVP | PT-1A | WC-5B, PT-1A | B-2 | ST-1 | RS-1 | |
| | 102 | LOBBY | LVP-1; CPT-3 | WD-2 | HWVP | PT-1A | PT-1A, SF | PT-1A | B-2 | - | - | |
| | 103 | FINANCE OPEN-A | CPT-2 | ACT-1 | - | PT-1A | PT-1A | PT-1A | B-1 | ST-1 | RS-1 | |
| | 104 | FINANCE OPEN-B | CPT-2 | ACT-1 | PT-1A | PT-1A | PT-1A | PT-1A | B-1 | - | - | |
| | 105 | FINANCE OFFICE | CPT-2 | ACT-1 | PT-1A, SF | PT-1A | PT-1A | PT-1A | B-1 | ST-1 | RS-1 | |
| | 106 | HR/FINANCE CONF | CPT-1 | ACT-1 | PT-1A | PT-1A | PT-1A | PT-1A, SF | B-1 | - | RS-2 | ACOUSTIC FELT PRIVACY SCREENS WC-5 |
| | 107 | HR OFFICE | CPT-2 | ACT-1 | PT-1A, SF | PT-1A | PT-1A | PT-1A | B-1 | - | RS-1, RS-2 | |
| | 108 | HR OPEN | CPT-2 | ACT-1 | PT-1A | - | PT-1A | PT-1A | B-1 | ST-1 | RS-1 | |
| | 109 | HALLWAY | CPT-1 | GWB | PT-1A, SF | PT-1A, SF | PT-1A, SF | PT-1A, SF | B-1 | - | | |
| | 110 | LUNCH/BREAK | LVP-1 | GWB; WD-1; OPEN TO ABOVE | CSWK | - | PT-1A | PT-1A | B-2 | PT-1B | RS-1 | |
| | 111 | SUPPLY | LVP-1 | ACT-1 | CSWK | PT-1A | PT-1A | PT-1A | B-2 | - | | |
| | 112 | QUIET | CPT-2 | ACT-1 | PT-3A | WC-2 | PT-3A | PT-3A | B-1 | - | | |
| | 113 | LACTATION | CPT-2 | ACT-1 | PT-2A | WC-1, CSWK | PT-2A | PT-2A | B-1 | - | | |
| | 114 | MEDIUM CONF | CPT-1 | GWB; WD-1 | PT-1A, SF | PT-1A | WC-3, PT-1A | PT-1A | B-1 | - | | |
| | 115 | SMALL CONF | CPT-1 | ACT-1 | PT-1A, SF | PT-1A, SF | WC-3, PT-1A | PT-1A | B-1 | - | | |
| | 116 | COMM OPEN | CPT-2 | ACT-1 | PT-1A | PT-1A | - | - | B-1 | ST-1 | RS-1 | |
| | 117 | FMO OPEN | CPT-2 | ACT-1 | - | PT-1A | PT-1A, SF | PT-1A | B-1 | ST-1 | RS-1 | |
| | 118 | FMO CONF | CPT-2 | GWB | PT-1A, SF | PT-1A | PT-1A | PT-1A | B-1 | ST-1 | RS-1, RS-2 | ACOUSTIC FELT PRIVACY SCREENS WC-5 |
| | 119 | FMO OFFICE-2 | CPT-2 | ACT-1 | PT-1A, SF | PT-1A | PT-1A | PT-1A | B-1 | ST-1 | RS-1 | |
| | 120 | FMO OFFICE 1 | CPT-2 | ACT-1 | PT-1A, SF | PT-1A | PT-1A | PT-1A | B-1 | ST-1 | RS-1 | |
| | 121 | HALLWAY | CPT-1 | GWB | PT-1A | PT-1A | PT-1A, SF | PT-1A | B-1 | - | | |
| | 122 | MECH | EXISTING | EXISTING | EXISTING | EXISTING | EXISTING | EXISTING | EXISTING | - | | |
| | 123 | WOMEN | T-1 | EXISTING | PT-1D, T-1 WAINSCOT | PT-1D, T-1 WAINSCOT | PT-1D | T-2, T-3 | T-1 | - | | |
| | 124 | JAN | EXISTING | EXISTING | EXISTING | EXISTING | EXISTING | EXISTING | EXISTING | - | | |
| | 125 | MEN | T-1 | EXISTING | PT-1D, T-1 WAINSCOT | T-2, T-3 | PT-1D | PT-1D, T-1 WAINSCOT | T-1 | - | | |
| | 126 | STOR | LVP-1 | ACT-1 | PT-1A | PT-1A | PT-1A | PT-1A | B-2 | - | | |
| | 127 | COFFEE | CPT-1; LVP-1 | GWB | PT-1A | CSWK | CSWK, PT-4A, PT-1A | PT-1A | - | - | | |
| | 127A | COPY | LVP-1 | GWB | PT-1A | CSWK | PT-1A | PT-1A | B-2 | - | | |
| | 128 | ADMIN CONF | CPT-1 | WD-1 | PT-1A | PT-1A, SF | PT-1A | PT-1A | B-1 | ST-1 | RS-1, RS-2 | ACOUSTIC FELT PRIVACY SCREENS WC-4 |
| | 129 | HALLWAY | CPT-1 | GWB | PT-1A, SF | PT-1A | PT-1A, SF | PT-1A, SF | B-1 | - | | |
| | 130 | OFFICE - EXEC. DIR. | CPT-2 | ACT-1 | PT-1A | PT-1A, SF | PT-1A | PT-1A | B-1 | ST-1 | RS-1, RS-2 | |
| | 131 | OFFICE - EXEC. SEC. | CPT-2 | ACT-1 | PT-1A | PT-1A | PT-1A, SF | PT-1A | B-1 | ST-1 | RS-1, RS-2 | |
| | 131A | STOR | CPT-2 | ACT-1 | PT-1A | PT-1A | PT-1A | PT-1A | B-3 | - | | |
| | 132 | DIST CHIEF 1 | CPT-2 | ACT-1 | PT-1A, SF | PT-1A | PT-1A | PT-1A | B-1 | - | RS-2 | |
| | 133 | OFFICE - CHIEF | CPT-2 | ACT-1 | PT-1A | PT-1A | PT-1A, SF | PT-1A | B-1 | ST-1 | RS-1, RS-2 | |
| | 134 | DIST CHIEF 2 | CPT-2 | ACT-1 | PT-1A, SF | PT-1A | PT-1A | PT-1A | B-1 | - | RS-2 | |
| | 135 | OFFICE - ASST. CHIEF | CPT-2 | ACT-1 | PT-1A | PT-1A | PT-1A, SF | PT-1A | B-1 | ST-1 | RS-1, RS-2 | |
| | 136 | DIST CHIEF 3 | CPT-2 | ACT-1 | PT-1A, SF | PT-1A | PT-1A | PT-1A | B-1 | - | RS-2 | |
| | 137 | DEPUTY 1 | CPT-2 | ACT-1 | PT-1A | PT-1A | PT-1A, SF | PT-1A | B-1 | ST-1 | RS-1, RS-2 | |
| | 138 | DEPUTY 3 | CPT-2 | ACT-1 | PT-1A, SF | PT-1A | PT-1A | PT-1A | B-1 | - | RS-2 | |
| | 139 | DEPUTY 2 | CPT-2 | ACT-1 | PT-1A | PT-1A | PT-1A | PT-1A, SF | B-1 | ST-1 | RS-1, RS-2 | |
| | 140 | OFFICE - DIR. ENT. SERV. | CPT-2 | ACT-1 | PT-1A | PT-1A | PT-1A | PT-1A, SF | B-1 | ST-1 | RS-1, RS-2 | |
| | 141 | STOR | LVP-1 | ACT-1 | PT-1A | PT-1A | PT-1A | PT-1A | B-3 | - | - | |
| | 142 | IT OPEN | CPT-2 | ACT-1 | PT-1A | PT-1A | PT-1A | PT-1A | B-1 | - | - | |
| | 143 | IT LAB | LVP-1 | ACT-1 | PT-1A | PT-1A | PT-1A | PT-1A | B-3 | - | | |
| | 144 | OFFICE - IT DIR. | CPT-2 | ACT-1 | PT-1A | PT-1A | PT-1A | PT-1A, SF | B-1 | ST-1 | RS-1 | |
| | 145 | FOYER | EXISTING | EXISTING | PT-8 | PT-8 | PT-8 | PT-8 | EXISTING; B-4 | - | - | |
| | 145 | HOTEL OPEN | CPT-2 | ACT-1 | PT-1A | PT-1A | PT-1A | PT-1A | B-1 | - | | |
| LEVEL 2 | | | | | | | | | | | | |
| | | MECH | EXISTING | EXISTING | EXISTING | EXISTING | EXISTING | | EXISTING | - | - | |
| | 2S1 | STAIR | EXISTING | EXISTING | EXISTING | EXISTING | EXISTING | | EXISTING | - | - | |
| | 2S2 | STAIR | EXISTING | EXISTING | EXISTING | EXISTING | EXISTING | | EXISTING | - | - | |
| | 201 | LARGE CONF RM | CPT-4 | ACT-1 | PT-1A | PT-1A | PT-1A | PT-1A | B-1 | ST-1 | RS-1 | |
| | 202 | KITCHEN | LVP-1 | ACT-1 | PT-1A | PT-1A | CSWK, PT-1A | CSWK | B-3 | - | - | |
| | 203 | MECH / ELEC | EXISTING | EXISTING | EXISTING | EXISTING | EXISTING | EXISTING | EXISTING | - | - | |
| | 204 | DOAS CLOS | LVP-1 | GWB | PT-1A | PT-1A | PT-1A | PT-1A | B-3 | - | | |
| | 221 | HALLWAY | EXISTING | EXISTING | PT-8 | PT-8 | EXISTING | EXISTING | EXISTING | - | - | PATCH AND REPAINT WALLS IN AFFECTED AREAS ONLY, MATCH EXISTING PAINT AND BASE |
| | 223 | WOMEN | T-1 | EXISTING | PT-1D, T-1 WAINSCOT | PT-1D, T-1 WAINSCOT | PT-1D | T-2, T-3 | T-1 | - | | |
| | 223A | WOMEN SHOWER | T-1 | EXISTING | PT-1D | PT-1D, T-2, T-3 | T-2, T-3 | T-2, T-3, PT-1D | T-1 | | - | |
| | 225 | MEN | T-1 | EXISTING | PT-1D, T-1 WAINSCOT | T-2, T-3 | PT-1D | PT-1D, T-1 WAINSCOT | T-1 | | - | |
| | 225A | MEN SHOWER | T-1 | EXISTING | PT-1D | PT-1D, T-2, T-3 | T-2, T-3 | T-2, T-3, PT-1D | T-1 | - | - | |

2 A921 **ROOM FINISH SCHEDULE**

| SUBJECT | LOCATION | ITEM | SPECIFICATION | FINISH | COLOR | NOTES |
|---|---|---|---|---|---|---|
| **BASE** | | | | | | |
| **B-1** | AT AREAS OF CPT | MDF BASE | | PAINTED, SEMI-GLOSS | MATCH WALL COLOR UNO | |
| **B-2** | AT AREAS OF LVP-1 | WOOD BASE | FINGER-JOINTED SPF | PAINTED, SEMI-GLOSS | MATCH WALL COLOR UNO | |
| **B-3** | STORAGE ROOMS | RUBBER BASE | MFR: ROPPE<br>STYLE: 4" COVED | | BLACK-BROWN | |
| **B-4** | FOYER, LR HALLWAY WHERE AFFECTED | RUBBER BASE | FMFR: ROPPE<br>STYLE: COVED. MATCH EXISTING | | MATCH EXISTING | |
| **VINYL** | | | | | | |
| **LVP-1** | RECEPTION, LOBBY, SUPPLY, LUNCH/BREAK, ADMIN, COFFEE/COPY, IT LAB | VINYL PLANK FLOOR | MFR: MILLIKEN<br>STYLE: ALL TOGETHER NOW: DWELL | | THIRD FLOOR | 22 MIL WEAR LAYER |
| **TILE** | | | | | | MINIMAL GROUT |
| **T-1** | MEN, WOMEN, SHOWERS | GLAZED PORCELAIN TILE AT FLOOR, BASE AND WALL WAINSCOT | MFR: STYLE ACCESS<br>STYLE: DISK<br>SIZE: 12"X24" | MATTE | ANTHRACITE | INSTALL METAL TRIM @ EXPOSED EDGED |
| **T-2** | MEN, WOMEN, SHOWERS | SUBWAY TILE AT SHOWERS & TOILETS | MFR: DALTILE<br>STYLE: COLORSTORY<br>SIZE: 4"X12" | A- MATTE (TOILETS)<br>B - GLOSSY (SHOWERS) | BALANCE | GROUT COLOR: TBD BY ARCH FROM MFR STANDARDS |
| **T-3** | MEN, WOMEN, SHOWERS | ACCENT SUBWAY TILE AT SHOWERS & TOILETS | MFR: DALTILE<br>STYLE: COLORSTORY PINSTRIPE, RECTANGLE FLUTED<br>SIZE: 2"X8" | GLOSSY | TRANQUILITY | |
| **T-4** | LUNCH/BREAK RM | MOSAIC TILE BACKSPLASH | MFR: DALTILE<br>STYLE: COLOR WHEEL STRAIGHT LINE MOSAIC<br>SIZE: 1X6 | GLOSSY | ARCTIC WHITE 0190 | GROUT COLOR: TBD BY ARCH FROM MFR STANDARDS |
| **CEILING TREATMENT** | | | | | | |
| **ACT-1** | OFFICES | ACOUSTIC CEILING TILE | ARMSTRONG TECHZONE<br>24"X48" | | WHITE | |
| **WD-1** | LUNCH/BREAK, MEDIUM CONF, ADMIN CONF | PANELIZED LINEAR WOOD CEILING | 9WOOD ACOUSTIC CEILING SERIES: 2000 LINEAR WOOD<br>STYLE: 2100 PANELIZED LINEAR | CLR, MATTE SHEEN | PEFC WESTERN HEMLOCK | |
| **WD-2** | LOBBY | CROSS-PIECE GRILLE WOOD CEILING | 9WOOD ACOUSTIC CEILING SERIES: 1000 WOOD GRILLES<br>STYLE: 1100 CROSS PIECE GRILLE | CLR, MATTE SEEN | PEFC WESTERN HEMLOCK | |
| **WALL COVERING** | | | | | | |
| **WC-1** | LACTATION RM | ACOUSTIC FELT WALL PANELS | MFR: ACOUFELT<br>STYLE: FRACTURE<br>THICKNESS: 12MM | PATTERN: DIAGONAL | PISTACHIO | |
| **WC-2** | QUIET ROOM | ACOUSTIC FELT WALL PANELS | MFR: ACOUFELT<br>STYLE: FRACTURE<br>THICKNESS: 12MM | PATTERN: DIAGONAL | JADE | |
| **WC-3** | MEDIUM CONF, SMALL CONF | ACOUSTIC FELT WALL PANELS | MFR: ACOUFELT<br>STYLE: FRACTURE<br>THICKNESS: 12MM | PATTERN: INTERSECT | SLATE | |
| **WC-4** | ADMIN CONF | ACOUSTIC FELT PRIVACY SCREENS | MFR: ACOUFELT<br>STYLE: FRACTURE<br>THICKNESS: 12MM | PATTERN: RAIN | CURRANT | |
| **WC-5** | HR CONF, FMO CONF | ACOUSTIC FELT PRIVACY SCREENS | MFR: ACOUFELT<br>STYLE: FRACTURE<br>THICKNESS: 12MM | PATTERN: RAIN | METAL | |
| **WC-5B** | RECEPTION | ACOUSTIC FELT WALL PANELS | MFR: ACOUFELT<br>STYLE: FRACTURE<br>THICKNESS: 12MM | PATTERN: DIAGONAL | METAL | |
| **WC-6** | SUPPLY, ADMIN COFFEE | TACKABLE PANELS | MFR: FORBO | | BROWN RICE 2187 | |
| **CASEWORK** | | | | | | |
| **HWVP** | SUPPLY, ADMIN COFFEE; RECEPTION | HARDWOOD VENEER PLYWOOD | | TRANSPARENT FINISH ON EDGE | | |
| **PLAM-1** | LUNCH/BREAK, SUPPLY, L2 KITCHEN | PLASTIC LAMINATE FOR CASEWORK AND COUNTER WHERE NOTED | WILSONART | | FASHION GRAY | AT LOCATIONS WITH Q-1 |
| **PLAM-2** | KITCHENETTES | PLASTIC LAMINATE FOR CASEWORK | FORMICA | | SURF | AT LOCATIONS WITH Q-2 |
| **SOLID SURFACE** | | | | | | |
| **Q-1** | LUNCH/BREAK, ADMIN COFFEE, SUPPLY, L2 KITCHEN | QUARTZ COUNTERTOP | CAESARSTONE, 2 CM | POLISHED | GEORGIAN BLUFFS 6134 | |
| **Q-2** | KITCHENETTES | QUARTZ COUNTERTOP, SPLASH | CAESARSTONE, 2 CM | CONCRETE | FRESH CONCRETE 4001 | |
| **Q-3** | RESTROOM VANITY | QUARTZ COUNTER & APRON | MFR: DALTILE<br>STYLE: ONE QUARTZ SURFACES | POLISHED | OQ63 ARGOS | |
| **FABRIC** | | | | | | |
| **FAB-1** | RECEPTION BENCHES | HIGH-DENSITY UPHOLSTERED FOAM CUSHION | COMMERCIAL-GRADE | | TBD | |
| **TOILET ACCESSORIES** | | | | | | Typ locations of toilet accessories shown on A315 & A316. Each stall in Women 123 & Women 223 to receive one each: CH, SND, TPD, SCD. Each stall in Men 125 & Men 225 to receive one each: CH, TPD, SCD. |
| **TP-1** | MEN, WOMEN | TOILET PARTITIONS | MFR: BOBRICK<br>SERIES: SIERRA SERIES<br>STYLE: SOLID COLOR REINFORCED COMPOSITE (SCRC) | | SC02-DESERT BEIGE | |
| **TPD** | MEN, WOMEN | SURFACE-MTD TOILET TISSUE DISPENSER W/ UTILITY SHELF, TWO ROLLS | MFR: BOBRICK<br>STYLE: B-540 | SATIN FINISH STAINLESS STEEL | | |
| **SCD** | MEN, WOMEN | SURFACE-MTD SEAT COVER DISPENSER | MFR: BOBRICK<br>STYLE: B-4221 | SATIN FINISH STAINLESS STEEL | | |
| **SND** | MEN, WOMEN | SURFACE-MTD SANITARY NAPKIN DISPENSER | MFR: BOBRICK<br>STYLE: B-270 | SATIN FINISH STAINLESS STEEL | | |
| **SD** | MEN, WOMEN | SURFACE-MTD AUTOMATIC SOAP DISPENSER | MFR: BOBRICK<br>STYLE: B-2013 | MATTE BLACK | | |
| **PTD** | MEN, WOMEN | SURFACE-MTD AUTO ROLL TOWEL DISPENSER/ WASTE RECEPTACLE | MFR: BOBRICK<br>STYLE: B-3979 | SATIN FINISH STAINLESS STEEL | | |
| **GB** | MEN, WOMEN | STRAIGHT GRAB BAR | MFR: BOBRICK<br>STYLE: FINO COLLECTION, B-9806 | SATIN FINISH STAINLESS STEEL | | SIZE & CONFIGURATION PER INTERIOR ELEVATIONS |
| **CH** | MEN, WOMEN | SURFACE-MTD SINGLE COAT HOOK | MFR: BOBRICK<br>STYLE: B-542 | SATIN FINISH STAINLESS STEEL | | |
| **SH-1** | SHOWERS | PREFAB SINGLE-PIECE FIBERGLASS SHOWER BASE | MFR: EVERFAB<br>STYLE: SP3937RFB | GEL COAT AND FIBERGLASS COMPOSITE | WHITE | |
| **SE-1** | SHOWERS | GLASS SHOWER ENCLOSURE | MFR: AGAUTE OR APPROVED EQ<br>STYLE: ACCENT | | CLEAR GLASS, MATTE BLACK METAL FINISH | 1/4" SEMI-FRAMELESS SWING DOOR, INCLUDE HINGES & 6" X 24" MITERED D-PULL/TOWEL BAR |
| **METAL TRIM** | | | | | | |
| **TRM-1** | CARPET TILE TO LVP | FLOOR TRANSITIONS | MFR: SCHLUTER<br>STYLE: SCHIENE A80MGS | ANODIZED ALUMINUM | | SEE FLOOR TRANSITION DETAILS |
| **TRM-2** | CARPET TILE TO TILE | FLOOR TRANSITIONS | MFR: SCHLUTER<br>STYLE: RENO-U EU125 | BRUSHED STAINLESS STEEL | | SEE FLOOR TRANSITION DETAILS |
| **TRM-3** | BROADLOOM CARPET W/ CUSHION TO LVP & TO EXISTING CARPET | FLOOR TRANSITIONS | MFR: PEMKO<br>STYLE: 157ABSP | POWDER-COATED ALUMINUM | BLACK SUEDE | SEE FLOOR TRANSITION DETAILS |
| **TRM-4** | ACOUSTIC FELT WALL PANEL | WALL PANEL EDGE TRIM | MFR: SCHLUTER<br>STYLE: SCHIENE AE210 | SATIN ANODIZED ALUMINUM | | SEE PANEL TRIM DETAIL, CONFIRM DIMENSION |
| **HARDWARE** | | | | | | |
| **HW-1** | CASEWORK | CABINET PULLS | MFR: TOP KNOBS<br>STYLE: KINNEY<br>LENGTH: 9" | FLAT BLACK | | |
| **HW-2** | SUPPLY HALLWAY LOCKERS | CAM LOCK | | | | |
| **HW-3** | SUPPLY HALLWAY LOCKERS | LOCKER NUMBERS | | | | |
| **WINDOW COVERINGS** | | | | | | |
| **RS-1** | EXTERIOR WINDOWS | MANUAL ROLLER SHADES W/ FASCIA | MECHOSHADE 5 THERMOVEIL 1500 SERIES | 3% OPENNESS | TBD MFR STANDARDS | |
| **RS-2** | INTERIOR GLAZING: ADMIN OFFICES, HR OFFICE, AND GLAZED DOORS AT: ADMIN CONF, HR/FINANCE CONF, FMO CONF | MANUAL ROLLER SHADES W/ FASCIA | MECHOSHADE THERMOVEIL 1700 SERIES | 1% OPENNESS | TBD MFR STANDARDS | |
| **APPLIANCES** | | | | | | |
| **REF-1** | LUNCH RM, ADMIN COFFEE, L2 KITCHEN | FULL HEIGHT ADA COMPLIANT REFRIGERATOR W/ICE MAKER | MFR: SUMMIT<br>STYLE: FF1509PLIM | | STAINLESS STEEL | |
| **REF-2** | LACTATION RM | BUILT-IN UNDERCOUNTER ADA COMPLIANT REFRIGERATOR | MFR: SUMMIT<br>STYLE: FFBBKBI7SSHVADA | | STAINLESS STEEL | |
| **REF-3** | ADMIN CONF, SMALL CONF, MEDIUM CONF | BUILT-IN UNDERCOUNTER BEVERAGE CENTER | MFR: SUMMIT<br>STYLE: SCR6108LCSS | | STAINLESS STEEL | ENERGY STAR CERTIFIED |
| **REF-4** | SUPPLY | BUILT-IN UNDERCOUNTER BEVERAGE CENTER, ADA COMPLIANT | MFR: SUMMIT<br>STYLE: ALSTGCSS (VFY) | | STAINLESS STEEL | |
| **DW-1** | LUNCH RM, ADMIN COFFEE, L2 KITCHEN | ADA COMPLIANT BUILT-IN DISHWASHER | MFR: SUMMIT<br>STYLE: DW2445SADA | | STAINLESS STEEL | ENERGY STAR CERTIFIED |
| **MICRO** | LUNCH RM, ADMIN COFFEE, L2 KITCHEN | BUILT-IN MICROWAVE WITH TRIM KIT | MFR: SUMMIT<br>STYLE: SMB127TK27 | | STAINLESS STEEL | FLUSH INSTALLATION |

3 A921 **SKF-TI-FFE-SCHEDULE**

SCALE: 1' = 1'-0"

## FINISHES SCHEDULE NOTES

1. SEE SPECIFICATIONS FOR INFORMATION REGARDING FINISHES
2. FOR LIST OF ABBREVIATIONS, SEE COVER SHEET **G001**
3. FOR FLOOR FINISH PLANS, SEE SHEETS **A111-A112**
3. FOR RCP's SEE SHEETS **A2B1-A202**
4. FOR INTERIOR ELEVATIONS SEE SHEETS **A511-A516**

| Rev | Date | Issue |
|---|---|---|

CONSULTANT'S LOGO

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #

**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com

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3300 REGISTERED ARCHITECT
EDWARD WEINSTEIN
State of Washington

**BID SET**
Issue

**07/18/25**
Issue Date

**FINISH SCHEDULE**
Sheet Title

**A921**

WEINSTEIN A+U
WeinsteinAU.com
206.443.8606

# FIRE PROTECTION ABBREVIATIONS

| | |
|---|---|
| AFF | ABOVE FINISHED FLOOR |
| ASTM | AMERICAN SOCIETY FOR TESTING AND MATERIALS |
| B.O. | BOTTOM OF |
| BFF | BELOW FINISHED FLOOR |
| BP | BOOSTER PUMP |
| CIRC | CIRCULATING |
| COORD | COORDINATE |
| CW | COLD WATER |
| DCVA | DOUBLE CHECK VALVE ASSEMBLY |
| DDCVA | DOUBLE DETECTOR CHECK VALVE ASSEMBLY |
| DEG | DEGREE |
| DIA | DIAMETER |
| DN | DOWN |
| DWG | DRAWING |
| E | EXISTING |
| EA | EACH |
| ELEV | ELEVATION |
| EPA | ENVIRONMENTAL PROTECTION AGENCY |
| ET | EXPANSION TANK |
| EWT | ENTERING WATER TEMPERATURE |
| F | FAHRENHEIT |
| FLA | FULL LOAD AMPS |
| FOIC | FURNISHED BY OWNER, INSTALLED BY CONTRACTOR |
| FT | FOOT, FEET |
| GA | GAUGE |
| GAL | GALLONS |
| GPM | GALLONS PER HOUR |
| HD | HEAD |
| HP | HORSEPOWER |
| ID | INDIRECT DRAIN, INSIDE DIAMETER |
| IE | INVERT ELEVATION |
| IN | INCH |
| KW | KILOWATT, (1000 WATTS) |
| LF | LINEAR FEET |
| LWT | LEAVING WATER TEMPERATURE |
| MCA | MINIMUM CIRCUIT AMPS |
| MFR | MANUFACTURER |
| MIN | MINIMUM |
| NFPA | NATIONAL FIRE PROTECTION ASSOCIATION |
| NC | NORMALLY CLOSED |
| NIC | NOT IN CONTRACT |
| NO | NORMALLY OPEN |
| NTS | NOT TO SCALE |
| PH | PHASE |
| POC | POINT OF CONNECTION |
| PPM | PARTS PER MILLION |
| PRV | PRESSURE REDUCING VALVE |
| PSI | POUNDS PER SQUARE INCH |
| RPBA | REDUCED PRESSURE BACKFLOW ASSEMBLY |
| RPBP | REDUCED PRESSURE BACKFLOW PREVENTOR |
| RPM | REVOLUTIONS PER MINUTE |
| WSBC | WASHINGTON STATE BUILDING CODE |
| WSEC | WASHINGTON STATE ENERGY CODE |
| SP | STATIC PRESSURE |
| WSPC | WASHINGTON STATE PLUMBING CODE |
| SPD | STATIC PRESSURE DROP |
| SPEC | SPECIFICATIONS |
| T.O. | TOP OF |
| TDH | TOTAL DYNAMIC HEAD |
| TMV | TEMPERATURE MIXING VALVE |
| TPD | TOTAL PRESSURE DROP |
| TSP | TOTAL STATIC PRESSURE |
| TYP | TYPICAL |
| UL | UNDERWRITER'S LABORATORY |
| UON | UNLESS OTHERWISE NOTED |
| V | VOLT, VENT |
| W | WASTE |
| W/ | WITH |

# FIRE PROTECTION LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| | WET PENDENT SPRINKLER |
| | WET UPRIGHT SPRINKLER |
| DP | DRY PENDENT SPRINKLER |
| D | DRY UPRIGHT SPRINKLER |
| D | DRY UPRIGHT SPRINKLER ON SPRIG |
| D | DRY HORIZONTAL SIDEWALL SPRINKLER |
| | WET HORIZONTAL SIDEWALL SPRINKLER |
| | ATTIC UPRIGHT SPRINKLER |
| | PIPE ELBOW DOWN |
| | PIPE ELBOW UP |
| | FLANGE |
| | FLEX CONNECTION |
| | TEE OUTLET UP |
| | TEE OUTLET DOWN |
| | AUTOMATIC AIR VENT |
| | BALL VALVE |
| | BALANCING VALVE |
| | BUTTERFLY VALVE |
| | CHECK VALVE |
| | GATE VALVE |
| | GLOBE VALVE |
| | PIPE SIZE REDUCTION |
| | PIPE CAP |
| | DIRECTION OF FLOW |
| | BREAK IN PIPE OR DUCT |
| | CLEARANCE REQUIREMENT |
| | WORK TO BE REMOVED |
| | REVISION CLOUD |
| XX OR XX | EQUIPMENT ITEM XX |
| 1 | FLAG NOTE |
| 1 | REVISION NOTE |
| X / XX | DETAIL OR SECTION CALLOUT |
| | SECTION CUT LINE |
| | LINE, ARCH. BACKGROUND |
| | LIGHT LINE, EXISTING |
| | HEAVY LINE, NEW WORK |
| F | FIRE PROTECTION WATER |

# FIRE PROTECTION GENERAL NOTES

1 THESE DRAWINGS ARE DIAGRAMMATIC REPRESENTING THE INTENT OF THE WORK AND DO NOT RELIEVE NOR WAIVE ANY IFC, NFPA OR LOCAL REQUIREMENTS. REFER TO THE SPECIFICATIONS FOR ADDITIONAL SYSTEM REQUIREMENTS.

2 PROVIDE ALL DESIGN, MATERIAL, LABOR, SUPERVISION, TOOLS, AND ITEMS NECESSARY FOR THE CONSTRUCTION, INSTALLATION, CONNECTION, START-UP, TESTING AND OPERATION OF ALL FIRE SUPPRESSION WORK FOR THIS PROJECT. IT SHALL BE THE FIRE SPRINKLER CONTRACTOR'S FULL RESPONSIBILITY TO DESIGN AND INSTALL A COMPLETE WORKING SYSTEM MEETING ALL CODES.

3 THE INTENT OF THESE DRAWINGS IS TO DIAGRAMMATICALLY SHOW THE FIRE SPRINKLER PIPING AND ARRANGEMENT OF HEADS IN OCCUPIED AND CRITICAL AREAS ONLY. SPRINKLER HEADS PROTECTING ATTICS, CONCEALED AREAS AND PLENUMS ARE NOT INDICATED BUT REQUIRED.THE DRAWINGS DO NOT NECESSARILY REFLECT THE FULL EXTENT OF PIPE OR SYSTEM COMPONENTS REQUIRED OR EXPECTED. THE FIRE SPRINKLER CONTRACTOR IS NOT RELIEVED FROM INCLUDING ALL REQUIRED COMPONENTS AND WORK IN THEIR CONTRACT.

4 PROVIDE SPRINKLER HEADS, PIPING, HEADERS, VALVES, ALARMS AND ACCESSORIES AS REQUIRED FOR A COMPLETE, FUNCTIONAL, CODE COMPLIANT SYSTEM. PIPE SIZING SHOWN IS AN ESTIMATE. FINAL PIPE SIZE SHALL BE COMPLETED BY THE CONTRACTOR AND INCLUDED IN THE PERMIT SUBMITTAL. CONSTRUCTION SHALL NOT BEGIN UNTIL THE CONTRACTOR'S SHOP DRAWINGS ARE APPROVED BY THE LOCAL JURISDICTION AND SHOP DRAWINGS HAVE BEEN REVIEWED BY THE PROJECT ARCHITECT.

5 FIRE SPRINKLER CONTRACTOR SHALL PROVIDE ADDITIONAL HEADS, PIPING, VALVES AND APPURTENANCES TO ENSURE ADEQUATE COVERAGE IN ALL SPACES INCLUDING ABOVE CEILINGS, IN CRAWLSPACES AND IN ATTICS.

6 THE AUTOMATIC SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13 (IBC 903.31 STANDARDS), IBC, IFC AND ALL LOCAL CODES AS A MINIMUM STANDARD. ADDITIONAL REQUIREMENTS WILL BE NOTED IN THE SPECIFICATIONS OR IN THESE DRAWINGS THAT EXCEED CODE REQUIREMENTS.

7 PROVIDE COVERAGE FOR THE ENTIRE FACILITY INCLUDING AREAS ABOVE AND BELOW CEILINGS, ATTIC SPACES, CATWALKS, INTERSTITIAL SPACES, OVERHANGS AND MECHANICAL/ELECTRICAL ROOMS TO ACCOMPANY THE AHJ CODE REQUIREMENTS. THE ASSUMPTION OF FIRE ALARM DEVICES OR SYSTEMS BEING INSTALLED DOES NOT RELIEVE THE FIRE SPRINKLER CONTRACTOR OF PROVIDING COMPLETE COVERAGE OF ALL AREAS.

8 FIRE SPRINKLER MAIN NOT SHOWN SHALL BE LAID OUT PER CODE SPECIFIED AND SYSTEM REQUIREMENTS. SEE ARCHITECTURAL DRAWINGS FOR AREAS NOT SHOWN OR FOR MULTIPLE FLOORS THAT REQUIRE FIRE SPRINKLING COVERAGE.

9 ALL PIPING SHALL BE CONCEALED IN FINISHED AREAS TO THE GREATEST EXTENT POSSIBLE. ANY EXPOSED PIPING IN UNFINISHED AREAS SHALL BE ONLY BY APPROVAL OF THE ARCHITECT AND BE PAINTED TO MATCH SURROUNDINGS. IN VAULTED CEILING AREAS, PIPING SHALL BE INSTALLED IN SOFFIT OR BEHIND CEILING FINISH.

10 SEE ARCHITECTURAL DRAWINGS FOR ATTIC AND CONCEALED SPACES, PROVIDE SPRINKLER COVERAGE IN THOSE SPACES AS APPLICABLE.

11 EXPOSED FIRE SPRINKLER PIPING SHALL BE LIMITED TO THE AREAS SHOWN. ANY DEVIATIONS IN THE FIRE MAIN LAYOUT SHOWN HERE SHALL BE APPROVED BY THE ARCHITECT BEFORE INSTALLATION AND SHALL BE AT NO ADDITIONAL COST TO THE OWNER. NO EXPOSED PIPING WILL BE ALLOWED IF, IN THE BUILDING STRUCTURE, THE ARCHITECT HAS PROVIDED SHAFTS, FURRED AREAS OR CONCEALED SPACES WHERE PIPING COULD BE HIDDEN FROM VIEW. DO NOT RUN PIPING OVER ELECTRICAL PANELS OR SWITCHGEAR EXCEPT WHERE LOCATED ABOVE THE STRUCTURAL CEILING.

12 CENTER SPRINKLER HEADS AND OTHER EXPOSED SPRINKLER SYSTEM ACCESSORIES IN CEILING GRIDS ON CENTERLINES OF ARCHITECTURAL FEATURES. REFER TO ARCHITECTURAL.

13 THE FIRE SPRINKLER CONTRACTOR SHALL COORDINATE THE LOCATION OF THE PIPING AND HEADS TO AVOID INTERFERENCE WITH LIGHT FIXTURES, ELECTRICAL CABLE TRAYS, HEATING/COOLING EQUIPMENT, DUCTWORK AND ANY ARCHITECTURAL FEATURES SUCH AS SKYLIGHTS, STAIRWAYS, ETC. IN CATWALK AREAS, PIPING SHOULD BE RUN AS HIGH AS POSSIBLE TO ALLOW THE MAXIMUM HEADROOM OVER THE MECHANICAL EQUIPMENT AND AISLE SPACES. MAXIMUM CLEARANCE SHALL BE MAINTAINED FOR SERVICE ACCESS AND MAINTENANCE FOR ALL EQUIPMENT. FAILURE TO COORDINATE SHALL BE JUSTIFICATION TO REQUIRE THE CONTRACTOR, AT HIS OWN EXPENSE, TO MOVE AND REDO HIS WORK.

14 ALL PIPING SHALL BE SLOPED PARALLEL TO BUILDING STRUCTURE AND INSTALLED TO DRAIN.

15 PROVIDE THRUST BLOCKS AT ALL CHANGES IN DIRECTION FOR UNDERGROUND SERVICE PIPING.

16 ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE, RECESSED HEADS WHERE EXPOSED IN CEILINGS.

17 PROVIDE DRY PIPE FIRE SPRINKLER COVERAGE FOR ALL EAVES AND OVERHANGS THAT EXTEND BEYOND 4' FROM THE BUILDING, COVERED WALKWAYS/ENTRYWAYS AND ANY UNCONDITIONED AREAS AND SPACES.

18 PROVIDE HEAD GUARDS OR WIRE PROTECTIVE CAGES AS REQUIRED ON ALL SPRINKLER HEADS THAT MAY BE SUBJECT TO DAMAGE BY INCIDENTAL CONTACT.

19 SCOPE OF DEMOLITION WORK IS DIAGRAMMATIC IN NATURE. THE PLANS DO NOT ATTEMPT TO SHOW EVERY EXISTING FITTING OR DEVICE IN A SYSTEM WHICH MAY REQUIRED DEMOLITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS, DIMENSIONS AND QUANTITIES. WHERE A SYSTEM OR DEVICE IS INDICATED FOR DEMOLITION IT IS THE CONTRACTOR'S RESPONSIBILITY TO FULLY DEMOLISH THE INDICATED SYSTEM, MAKING SAFE ANY ELECTRICAL CONNECTIONS, CAPPING OF PIPES/DUCTS THAT ARE NOT FULLY DEMOLISHED, PROTECTING SYSTEMS WHICH ARE TO REMAIN, AND FULLY DISPOSING OF ALL DEMOLISHED EQUIPMENT THAT HAS NOT BEEN SPECIFIED TO BE RETAINED/SALVAGED TO THE OWNER.

# APPLICABLE CODES

2021 WASHINGTON STATE FIRE CODE

# FIRE PROTECTION INDEX


| | |
|---|---|
| F001 | FIRE PROTECTION NOTES AND LEGEND |
| F100 | GARAGE LEVEL FIRE PROTECTION PLAN |
| F101 | LEVEL 1 FIRE PROTECTION PLAN |
| F102 | LEVEL 2 FIRE PROTECTION PLAN |


| Rev | Date | Issue |
|---|---|---|
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THE GREENBUSCH GROUP, INC.

ACOUSTICAL, AUDIO / VIDEO & MECHANICAL ENGINEERING
1446 ELLIOTT AVE W SEATTLE, WA 98119
(206) 378-0369 www.greenbusch.com


**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #


**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com



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JURISDICTIONAL APPROVAL STAMP

DUANE RICHARD TURPEN — STATE OF WASHINGTON — 19870 — REGISTERED PROFESSIONAL ENGINEER
7-15-25

**BID SET**
Issue

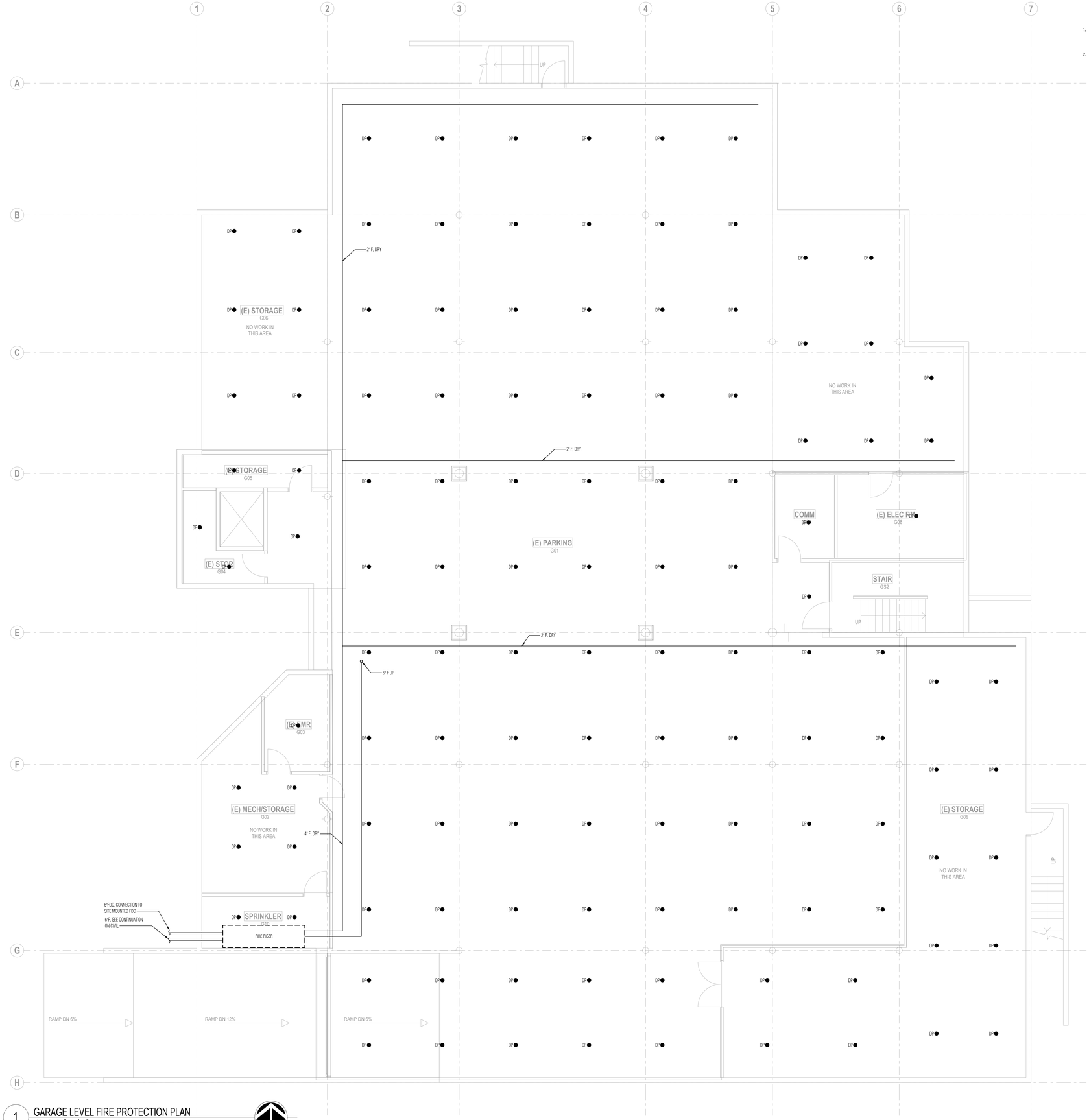
**7/18/25**
Issue Date

**FIRE PROTECTION NOTES AND LEGEND**
Sheet Title

**F001**

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WeinsteinAU.com
206.443.8606


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1 GARAGE LEVEL FIRE PROTECTION PLAN
SCALE: 3/16" = 1'-0"

## SHEET NOTES:

1. PIPING IS DIAGRAMMATIC. PROVIDE FITTINGS AND OFFSETS AS REQUIRED TO AVOID WORK OF OTHER TRADES AND AS REQUIRED FOR A CODE COMPLIANT INSTALLATION.
2. DRAWING SHOWS INTRODUCTED SIZE AND ROUTE FOR MAIN PIPES BUT NOT ASSOCIATED BRANCH PIPES. SIZES ARE ESTIMATES AND FINAL SIZING WILL BE BY THE DESIGN-BUILD CONTRACTOR.

| Rev | Date | Issue |
|---|---|---|
| | | |


THE GREENBUSCH GROUP, INC
ACOUSTICAL, AUDIO / VIDEO & MECHANICAL ENGINEERING
1445 ELLIOTT AVE W. SEATTLE, WA 98119
(206) 378-0569 www.greenbusch.com


**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #


**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com



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**7/18/25**
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**GARAGE LEVEL FIRE PROTECTION PLAN**
Sheet Title

**F100**

DYLAN E. RICHARD
STATE OF WASHINGTON
26973
REGISTERED
PROFESSIONAL ENGINEER

WEINSTEIN A+U
WeinsteinAU.com
206.443.8606


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1 LEVEL 1 FIRE PROTECTION PLAN
SCALE: 3/16" = 1'-0"

## SHEET NOTES:

1. PIPING IS DIAGRAMMATIC. PROVIDE FITTINGS AND OFFSETS AS REQUIRED TO AVOID WORK OF OTHER TRADES AND AS REQUIRED FOR A CODE COMPLIANT INSTALLATION.
2. DRAWING SHOWS INTRODUCED SIZE AND ROUTE FOR MAIN PIPES BUT NOT ASSOCIATED BRANCH PIPES. SIZES ARE ESTIMATES AND FINAL SIZING WILL BE BY THE DESIGN-BUILD CONTRACTOR.

## SHEET KEYNOTES:

1 PROVIDE OVERSIZED MAIN OR SECONDARY MAIN AND RISER TO THE UPPER FLOOR TO ACCOMMODATE FUTURE EXPANSION OF THE SYSTEM TO THE SECOND FLOOR AND ATTIC.
REFER TO FOLLOWING PAGE FOR AREAS SERVED BY POSSIBLE FUTURE EXPANSION.
INCLUDE ALL PROVISIONS NEEDED FOR EXPANSION OF THE SYSTEM TO THE SECOND FLOOR AND ATTIC.
TERMINATE STUB OUT IN SECOND FLOOR MECH ROOM CEILING.

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THE GREENBUSCH GROUP, INC
ACOUSTICAL, AUDIO / VIDEO & MECHANICAL ENGINEERING
1448 ELLIOTT AVE W. SEATTLE, WA 98119
(206) 378-0569 www.greenbusch.com


**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

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**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
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www.weinsteinau.com



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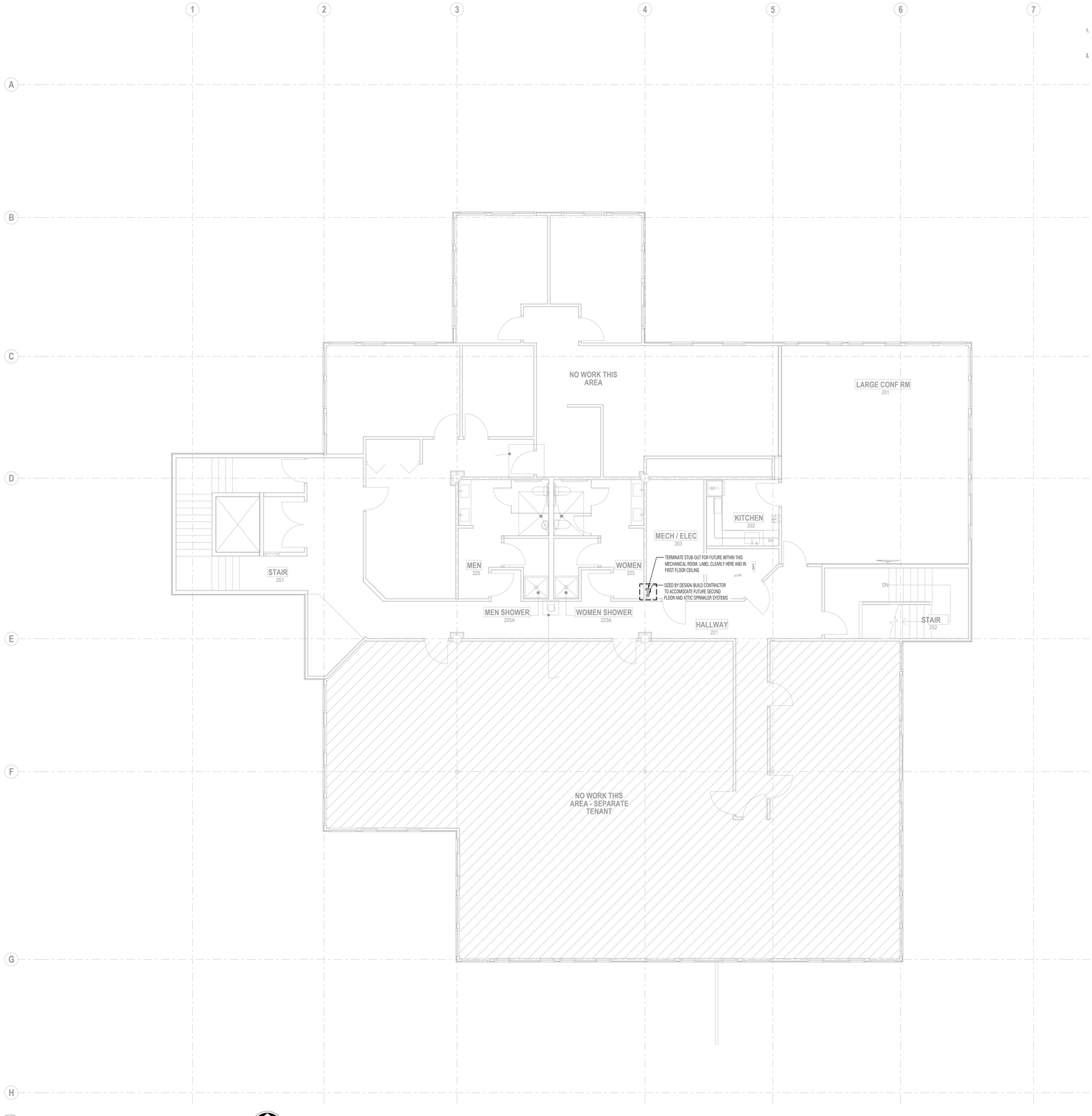
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**LEVEL 1 FIRE PROTECTION PLAN**
Sheet Title

**F101**

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1 LEVEL 2 FIRE PROTECTION PLAN
SCALE: 3/16" = 1'-0"

## SHEET NOTES:

1. PIPING IS DIAGRAMMATIC. PROVIDE FITTINGS AND OFFSETS AS REQUIRED TO AVOID WORK OF OTHER TRADES AND AS REQUIRED FOR A CODE COMPLIANT INSTALLATION.
2. DRAWING SHOWS ANTICIPATED SIZE AND ROUTE FOR MAIN PIPES BUT NOT ASSOCIATED BRANCH PIPES. SIZES ARE ESTIMATES AND FINAL SIZING WILL BE BY THE DESIGN-BUILD CONTRACTOR.

| Rev | Date | Issue |
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THE GREENBUSCH GROUP, INC
ACOUSTICAL, AUDIO / VIDEO & MECHANICAL ENGINEERING
1448 ELLIOTT AVE W. SEATTLE, WA 98119
(206) 378-0368 www.greenbusch.com


**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #


**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com



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Issue Date

**LEVEL 2 FIRE PROTECTION PLAN**
Sheet Title

**F102**


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# PLUMBING ABBREVIATIONS

| | |
|---|---|
| AFF | ABOVE FINISHED FLOOR |
| ASTM | AMERICAN SOCIETY FOR TESTING AND MATERIALS |
| B.O. | BOTTOM OF |
| BFF | BELOW FINISHED FLOOR |
| BP | BOOSTER PUMP |
| CIRC | CIRCULATING |
| CO | CLEAN OUT |
| COND | CONDENSATE |
| COORD | COORDINATE |
| CW | COLD WATER |
| DCVA | DOUBLE CHECK VALVE ASSEMBLY |
| DDCVA | DOUBLE DETECTOR CHECK VALVE ASSEMBLY |
| DEG | DEGREE |
| DIA | DIAMETER |
| DN | DOWN |
| DWG | DRAWING |
| E | EXISTING |
| EA | EACH |
| ELEV | ELEVATION |
| EPA | ENVIRONMENTAL PROTECTION AGENCY |
| ET | EXPANSION TANK |
| EWT | ENTERING WATER TEMPERATURE |
| F | FAHRENHEIT |
| FCO | FLOOR CLEANOUT |
| FD | FLOOR DRAIN |
| FLA | FULL LOAD AMPS |
| FOIC | FURNISHED BY OWNER, INSTALLED BY CONTRACTOR |
| FS | FLOOR SINK |
| FT | FOOT, FEET |
| G | NATURAL GAS |
| GA | GAUGE |
| GAL | GALLONS |
| GPM | GALLONS PER HOUR |
| GW | GREASE WASTE |
| HD | HEAD |
| HP | HORSEPOWER |
| HW | HOT WATER |
| HWC | HOT WATER CIRCULATION |
| ID | INDIRECT DRAIN, INSIDE DIAMETER |
| IE | INVERT ELEVATION |
| IN | INCH |
| KW | KILOWATT, (1000 WATTS) |
| LF | LINEAR FEET |
| LWT | LEAVING WATER TEMPERATURE |
| MCA | MINIMUM CIRCUIT AMPS |
| MFR | MANUFACTURER |
| MIN | MINIMUM |
| NC | NORMALLY CLOSED |
| NIC | NOT IN CONTRACT |
| NO | NORMALLY OPEN |
| NTS | NOT TO SCALE |
| ORL | OVERFLOW RAINWATER LEADER |
| PH | PHASE |
| POC | POINT OF CONNECTION |
| PPM | PARTS PER MILLION |
| PRV | PRESSURE REDUCING VALVE |
| PSI | POUNDS PER SQUARE INCH |
| PW | PUMPED WASTE |
| RPBA | REDUCED PRESSURE BACKFLOW ASSEMBLY |
| RPBP | REDUCED PRESSURE BACKFLOW PREVENTOR |
| RPM | REVOLUTIONS PER MINUTE |
| RWL | RAINWATER LEADER |
| WSBC | WASHINGTON STATE BUILDING CODE |
| WSEC | WSHINGTON STATE ENERGY CODE |
| SP | STATIC PRESSURE |
| WSPC | WASHINGTON STATE PLUMBING CODE |
| SPD | STATIC PRESSURE DROP |
| SPEC | SPECIFICATIONS |
| SS | SANITARY SEWER |
| T.O. | TOP OF |
| TDH | TOTAL DYNAMIC HEAD |
| TMV | TEMPERATURE MIXING VALVE |
| TPD | TOTAL PRESSURE DROP |
| TSP | TOTAL STATIC PRESSURE |
| TYP | TYPICAL |
| UL | UNDERWRITER'S LABORATORY |
| UON | UNLESS OTHERWISE NOTED |
| UPC | UNIFORM PLUMBING CODE |
| V | VOLT, VENT |
| VTR | VENT THRU ROOF |
| W | WASTE |
| W/ | WITH |
| WHA | WATER HAMMER ARRESTER |

# PLUMBING LEGEND

PIPE ELBOW DOWN

PIPE ELBOW UP

FLANGE

FLEX CONNECTION

TEE OUTLET UP

TEE OUTLET DOWN

AUTOMATIC AIR VENT

BALL VALVE

BALANCING VALVE

BUTTERFLY VALVE

CHECK VALVE

CLEAN OUT

GATE VALVE

GLOBE VALVE

PIPE SIZE REDUCTION

PIPE CAP

DIRECTION OF FLOW

BREAK IN PIPE OR DUCT

FLOOR CLEAN OUT

FLOOR DRAIN

FLOOR SINK

VENT THROUGH ROOF

DETAIL OR SECTION CALLOUT

SECTION CUT LINE

THERMOSTAT

CARBON DIOXIDE SENSOR

SENSOR

HUMIDISTAT

SWITCH

TIMER SWITCH

LINE, ARCH. BACKGROUND

LIGHT LINE, EXISTING

HEAVY LINE, NEW WORK

COLD WATER

HOT WATER

HOT WATER CIRCULATION

SANITARY SEWER

SANITARY VENT

CONDENSATE DRAIN

COMPRESSED AIR

SLOPE AND DFU TAG (FIXTURE UNITS SHOWN INSIDE BRACKETS)

CLEARANCE REQUIREMENT

WORK TO BE REMOVED

REVISION CLOUD

EQUIPMENT ITEM XX

FLAG NOTE

REVISION NOTE

# PLUMBING GENERAL NOTES

1 THE CONTRACTOR'S SCOPE OF WORK SHALL CONSIST OF ALL WORK SHOWN ON THE DRAWINGS, INCLUDING PLANS, DIAGRAMS, DETAILS, ETC., AND ALL WORK AS IDENTIFIED IN THE SPECIFICATIONS. WORK INCLUDES FURNISHING, INSTALLING SYSTEM, INTEGRATION, TESTING, TRAINING AND WARRANTY OF THE PLUMBING SYSTEMS AS SHOWN AND SPECIFIED.

2 PROVIDE A COMPLETE AND OPERABLE PLUMBING SYSTEM. THE SYSTEM SHALL BE PROVIDED COMPLETE WITH ALL PLUMBING WORK AS REQUIRED FOR SYSTEM OPERATION PER THE SEQUENCE OF OPERATION.

3 ALL PLUMBING WORK SHALL COMPLY WITH LOCAL CODES AND REGULATIONS. WHERE WORK SHOWN IS IN CONFLICT WITH THE LOCAL CODE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF THE CONFLICT AND WAIT FOR WRITTEN RESOLUTION PRIOR TO PROCEEDING. WHERE WORK IS SHOWN TO BE ABOVE AND BEYOND THE REQUIREMENTS OF THE CODE, PROVIDE WORK AS SHOWN IN THE CONTRACT DOCUMENTS.

4 THE DESIGN OF PLUMBING SYSTEMS HAS BEEN BASED UPON THE EQUIPMENT AS MANUFACTURED BY THE MANUFACTURERS LISTED ON THE EQUIPMENT SCHEDULE OR IN THE SPECIFICATION. EQUIPMENT NAMED IN THE SPECIFICATIONS MAY BE SUBSTITUTED PROVIDED THAT THE EQUIPMENT MEETS OR EXCEEDS ALL SCHEDULED AND SPECIFIED CRITERIA AND HAS THE PRIOR WRITTEN APPROVAL OF THE ENGINEER. COORDINATE REVISIONS TO THE INSTALLATION WITH ALL TRADES AND GUARANTEE IN WRITING THAT NO ADDITIONAL COST WILL BE INCURRED DUE TO PRODUCT SUBSTITUTION.

5 CONTRACTOR SHALL FIELD VERIFY ALL BUILDING AND SITE DIMENSIONS BEFORE BEGINNING CONSTRUCTION OR ORDERING EQUIPMENT. DO NOT SCALE FROM PLANS. PLANS PROVIDED ARE DIAGRAMMATIC IN NATURE AND DO NOT SHOW ALL REQUIRED OFFSETS, TRANSITIONS, OR CHANGES IN DIRECTION. PROVIDE ALL OFFSETS REQUIRED.

6 PIPE SIZES SHOWN ON PLAN ARE INTENDED TO INDICATE THE NOMINAL PIPE SIZE OF THE SPECIFIED PIPE MATERIAL AND PIPE SCHEDULE. COORDINATE ACTUAL PIPE OUTER DIMENSIONS WITH REQUIREMENTS FOR THERMAL INSULATION, HANGERS, SUPPORTS, ETC..

7 CONTRACTOR SHALL COORDINATE ALL PLUMBING WORK WITH OTHER TRADES AND SUBCONTRACTORS PRIOR TO INSTALLATION OF ANY WORK BY ANY TRADES. DURING COORDINATION EFFORTS DUCT ROUTING SHALL TAKE PRECEDENCE OVER PLUMBING PIPE AND FIRE SPRINKLER WORK. PLUMBING PIPES REQUIRING SLOPE SHALL TAKE PRECEDENCE OVER FIRE SPRINKLER WORK. PROVIDE SHOP DRAWINGS FOR REVIEW BY ENGINEER PRIOR TO INSTALLATION AND FABRICATION TO DOCUMENT THE RESULTS OF THE COORDINATION.

8 PENETRATIONS THROUGH ROOF OR EXTERIOR WALLS SHALL BE SEALED WEATHER TIGHT. PENETRATIONS THROUGH CEILING OR INTERIOR WALLS SHALL BE SEALED SUBSTANTIALLY AIRTIGHT. BELOW GRADE WALLS OR SLABS SHALL BE SLEEVED AND SEALED WATERTIGHT. PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE TREATED TO MEET OR EXCEED THE FIRE RATINGS OF SUCH WALLS.

9 PROVIDE ALL REQUIRED ELECTRICAL POWER, MOTOR STARTERS, MOTOR CONTROL INTERFACES, CONTROL SWITCHES, AND CONNECTIONS AS REQUIRED FOR SYSTEM OPERATION AND TO EXECUTE THE SEQUENCE OF OPERATIONS. COORDINATE LINE VOLTAGE WORK REQUIREMENTS WITH THE JOBSITE ELECTRICAL CONTRACTOR.

10 PROVIDE ALL REQUIRED EQUIPMENT GUARDS AND STRUCTURAL SUPPORTS AS RECOMMENDED BY EQUIPMENT MANUFACTURERS TO SUPPORT EQUIPMENT AND TO ASSURE SYSTEM PERFORMANCE AND SAFE OPERATION. COORDINATE PRIOR TO INSTALLATION.

11 PROVIDE ACCESS PANELS AS REQUIRED TO MAINTAIN EQUIPMENT, ACCESS VALVES, AND PLUMBING ACCESSORIES. COORDINATE FIRE RATING OF SUCH PANELS WITH THE ARCHITECTURAL DOCUMENTS. ACCESS PANELS SHALL BE MINIMUM SIZE REQUIRED TO SERVICE EQUIPMENT PER THE MANUFACTURER'S WRITTEN INSTRUCTIONS. IF NO MINIMUM SIZE IS GIVEN THE PANEL SHALL BE NO SMALLER THAN 12" BY 12" IN SIZE.

12 COORDINATE LOCATION OF ALL THERMOSTATS, AND ALL WALL MOUNTED EQUIPMENT, WITH THE ARCHITECT. THE LOCATIONS AS SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS. IF NOT SHOWN ON ARCHITECTURAL ELEVATIONS, MOUNT WITH TOP OF EQUIPMENT NO HIGHER THAN 44" ABOVE FINISHED FLOOR.

13 PROVIDE UNIT SUPPORT PER MANUFACTURERS RECOMMENDATIONS. BUILDING AND STRUCTURE IS DESIGNED TO SUPPORT EQUIPMENT, BUT NOT DETAILED TO ACCOMMODATE EACH AVAILABLE EQUIPMENT CONFIGURATION OR MANUFACTURER. CONTRACTOR SHALL PROVIDE MATERIALS AND SERVICES INCLUDING BUT NOT LIMITED TO, ADDITIONAL STEEL, SUPPORT BRACKETS, HANGERS, ACCESSORIES, AND STRUCTURAL ENGINEERING AS REQUIRED TO SUPPORT EQUIPMENT.

14 PROVIDE FRAMING, CUTTING, BLOCKING AND PATCHING AS REQUIRED.

15 PROVIDE TRAP PRIMERS AND TRAP PRIMING SUPPLY LINES TO EVERY FLOOR DRAIN P-TRAP. SUPPLY LINES SHALL BE RUN IN COPPER AND SLOPPED TO THE P-TRAP. INSTALL TRAP PRIMERS IN NEARBY WALL AND ROUTE SUPPLY WATER TO TRAP PRIMER MANIFOLD AS NECESSARY. UNLESS OTHERWISE NOTED, OR APPROVED IN WRITING FROM THE ENGINEER, PROVIDE ELECTRONICALLY METERED TRAP PRIMERS.

16 PROVIDE WATER HAMMER ARRESTORS AT EACH WATER SUPPLY BRANCH CONTAINING A WATER CLOSET, URINAL, OR PUBLIC LAVATORY FIXTURE. LOCATE PER MANUFACTURER'S WRITTEN INSTRUCTIONS. PROVIDE ACCESS PANEL FOR SERVICE AND MAINTENANCE OF WATER HAMMER ARRESTOR.

17 MAINTENANCE PROVISIONS: PROVIDE FLANGES OR UNIONS AT ALL PIPE CONNECTIONS TO EQUIPMENT TO ALLOW FOR REMOVAL OR DISASSEMBLY FOR MAINTENANCE.

18 SCOPE OF DEMOLITION WORK IS DIAGRAMMATIC IN NATURE. THE PLANS DO NOT ATTEMPT TO SHOW EVERY EXISTING FITTING OR DEVICE IN A SYSTEM WHICH MAY REQUIRED DEMOLITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS, DIMENSIONS AND QUANTITIES. WHERE A SYSTEM OR DEVICE IS INDICATED FOR DEMOLITION IT IS THE CONTRACTOR'S RESPONSIBILITY TO FULLY DEMOLISH THE INDICATED SYSTEM, MAKING SAFE ANY ELECTRICAL CONNECTIONS, CAPPING OF PIPES/DUCTS THAT ARE NOT FULLY DEMOLISHED, PROTECTING SYSTEMS WHICH ARE TO REMAIN, AND FULLY DISPOSING OF ALL DEMOLISHED EQUIPMENT THAT HAS NOT BEEN SPECIFIED TO BE RETAINED/SALVAGED TO THE OWNER.

# POTABLE WATER SYSTEM DISINFECTION NOTES

THE POTABLE WATER SYSTEM SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE FOLLOWING PROCEDURE:

1 FLUSH AND CHLORINATE WATER SYSTEM IN ACCORDANCE WITH UPC/SPC SECTION 609.9 ITEMS #1 AND #2 USING AN ADJUSTED CONCENTRATION OF 20 PPM. CHLORINE FILL PORT MUST BE LOCATED WHERE THE WATER SUPPLY ENTERS THE BUILDING. CHLORINE SOLUTION MUST BE ADMINISTERED THROUGH A FLOW METER TO MEASURE SOLUTION VOLUME. AFTER WATER-CHLORINE SOLUTION IS INCORPORATED INTO THE NEW OR REPAIRED WATER SUPPLY SYSTEM, A MINIMUM 24-HOUR WAITING PERIOD MUST BE OBSERVED PRIOR TO FLUSHING. NOTE THE 3-HOUR HIGH-CONCENTRATION OPTION NOTED IN UPC/SPC SECTION 609.9 ITEM #2 IS NOT AN ALLOWABLE OPTION WITHIN THIS JURISDICTION.

2 AFTER THE 24-HOUR WAITING PERIOD, FLUSH SYSTEM WITH CLEAN POTABLE WATER IN ACCORDANCE WITH UPC/SPC SECTION 609.9 ITEM #3.

3 AFTER FLUSHING, CHLORINE RESIDUAL LEVELS IN THE NEW OR REPAIRED WATER SUPPLY SYSTEM SHALL BE NOT LESS THAN THE MEAN AVERAGE CHLORINE RESIDUAL OF THE WATER PURVEYOR'S SOURCE SUPPLY WITHIN THE PROJECT SERVICE AREA AND SHALL NOT EXCEED THE EPA LIMIT OF 4 mg/L. ALL CHLORINE RESIDUAL LEVELS SHALL BE MEASURED USING A CALIBRATED DIGITAL CHLORINE METER (NOT TEST STRIPS).

4 WAIT AT LEAST 36 HOURS BEFORE COLLECTING BACTERIOLOGICAL WATER QUALITY SAMPLES FROM FIXTURES. BACTERIOLOGICAL TESTING SHALL BE CONDUCTED BY A LABORATORY CERTIFIED FOR DRINKING WATER IN WASHINGTON STATE AFFIRMING WATER QUALITY CONTAINS NO COLIFORM BY SAMPLE TESTING THE FURTHEST FIXTURE FROM THE PUBLIC WATER SOURCE AND NOT LESS THAN TWO OTHER LOCATIONS IN DIFFERENT PARTS OF THE WATER SUPPLY SYSTEM.

# WASHINGTON STATE ENERGY CODE NOTES

1 PROVIDE RECORD DOCUMENTS IN ACCORDANCE WITH SECTION C103.6.1. PROVIDE OPERATION AND MAINTENANCE MANUALS IN ACCORDANCE WITH SECTION C103.6.2. PROVIDE THE OWNER WITH THE COMPLIANCE DOCUMENTS REQUIRED BY SECTION C103.6.3. REFER ALSO TO THE PROJECT SPECIFICATIONS FOR ALL CLOSEOUT AND RECORD DOCUMENT REQUIREMENTS. THE DRAWINGS SHALL INDICATE, AT A MINIMUM, THE LOCATION AND PERFORMANCE DATA OF EQUIPMENT, AS-BUILT CONFIGURATION OF DUCTWORK AND PIPING DISTRIBUTION SYSTEMS, INCLUDING FLOW RATE, EQUIPMENT TAGS, AND FIELD VERIFIED DIMENSIONS.

2 PROVIDE OWNER TRAINING PER SECTION C103.6.4 AND AS REQUIRED BY THE PROJECT SPECIFICATIONS. OWNER TRAINING MUST TAKE PLACE BEFORE OWNER OCCUPANCY BUT CAN TAKE PLACE AFTER SUBSTANTIAL COMPLETION HAS BEEN APPROVED.

3 SEAL, GASKET, OR WEATHER STRIP ALL ACCESS DOORS AND PANELS THAT OPEN FROM CONDITIONED SPACES TO UNCONDITIONED SPACES AND PER SECTION C402.5.4.

4 PROVIDE VARIABLE SPEED DRIVES FOR ALL FAN AND PUMP MOTORS GREATER THAN OR EQUAL TO 7.5 HP PER SECTION C403.2.3.

5 SERVICE WATER HEATING EQUIPMENT SHALL HAVE MINIMUM PERFORMANCE AT SPECIFIED RATING CONDITIONS NOT LESS THAN THE VALUES INDICATED IN TABLE C404.2.

6 PROVIDE HOT WATER CIRCULATION SYSTEMS PER THE PLANS AND SPECIFICATIONS. CIRCULATING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF SECTION C404.7 AND SHALL BE CAPABLE OF PERFORMING THE SPECIFIED SEQUENCE OF OPERATIONS. INSULATE ALL HEATED WATER CIRCULATION PIPE MINIMUM 1" THICKER THAN THE VALUES LISTED IN TABLE C403.10.3.

7 INSULATE PLUMBING PIPE PER THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS AND PER SECTION C403.10.3 AND PER TABLE C403.2.9.

TABLE C403.10.3 - MINIMUM PIPE INSULATION THICKNESS (INCHES)

| FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F) | INSULATION CONDUCTIVITY | | NOMINAL PIPE OR TUBE SIZE (INCHES) | | | | |
|---|---|---|---|---|---|---|---|
| | CONDUCTIVITY BTU x IN/(H x FT²x °F) | MEAN RATING TEMPERATURE °F | <1" | 1" TO < 1-1/2" | 1-1/2" TO < 4" | 4" TO <8" | >8" |
| >350 | 0.32-0.34 | 250 | 4.5 | 5.0 | 5.0 | 5.0 | 5.0 |
| 251-350 | 0.29-0.32 | 200 | 3.0 | 4.0 | 4.5 | 4.5 | 4.5 |
| 201-250 | 0.27-0.30 | 150 | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 |
| 141-200 | 0.25-0.29 | 125 | 1.5 | 1.5 | 2.0 | 2.0 | 2.0 |
| 105-140 | 0.21-0.28 | 100 | 1.0 | 1.0 | 1.5 | 1.5 | 1.5 |
| 40-60 | 0.21-0.27 | 75 | 0.5 | 0.5 | 1.0 | 1.0 | 1.0 |
| <40 | 0.20-0.26 | 75 | 0.5 | 1.0 | 1.0 | 1.0 | 1.5 |

NOTE: REFER TO 2021 WSEC FOR TABLE FOOTNOTES.

NOTE: DOMESTIC HOT WATER PIPE THAT IS PART OF A RECIRCULATION SYSTEM SHALL HAVE 1" ADDITIONAL THICKNESS TO THE TABLE ABOVE.

8 PROVIDE BALANCING DEVICES IN ALL CIRCULATING WATER BRANCH PIPE RUNS TO FIXTURES AND OUTLETS AS REQUIRED BY SECTION C408.2.2.2, EXCLUDING ANY EXCEPTIONS, AND AS INDICATED ON THE CONTRACT DOCUMENTS. PROVIDE ALL BALANCING DEVICES NEEDED TO ADJUST EQUIPMENT TO THE DESIGN FLOW VALUES INDICATED ON THE PLANS AND SCHEDULES.

9 PROVIDE ISOLATION VALVES FOR ALL EQUIPMENT CONNECTED TO FLUID PIPING.

10 PROVIDE ELECTRIC HOT WATER HEATERS WITH MINIMUM R-10 INSULATION PAD UNDER THE TANK PER SECTION C404.5 OF THE WSEC.

11 PROVIDE BALANCING DEVICES IN ALL BRANCH DUCTS AND PIPE RUNS TO TERMINAL DEVICES AS REQUIRED BY SECTION C408.2.2.2 OF THE WSEC AND AS INDICATED ON THE CONTRACT DOCUMENTS.

12 RECORD DRAWINGS SHALL BE PROVIDED TO THE OWNER AS REQUIRED BY SECTION C103.6.1 OF THE WSEC. THE DRAWINGS SHALL INDICATE THE LOCATION AND PERFORMANCE DATA OF EQUIPMENT, GENERAL CONFIGURATION OF DUCTWORK AND PIPING DISTRIBUTION SYSTEMS, INCLUDING FLOW RATES AS A MINIMUM.

13 OPERATION AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE OWNER AS SPECIFIED AND PER SECTION C103.6.2 OF THE WSEC.

14 PLUMBING SYSTEMS SHALL BE BALANCED AS REQUIRED BY SECTION C408.2.2 OF THE WSEC.

15 CONTRACTOR SHALL PROVIDE COMMISSIONING AND REPORT OF COMMISSIONING SHALL BE SUBMITTED TO THE OWNER AS REQUIRED BY SECTION C408. COMMISSIONING SHALL CONSIST OF A COMMISSIONING PLAN, BALANCING, FUNCTIONAL PERFORMANCE TESTING, POST CONSTRUCTION COMMISSIONING, TRAINING, REPORTS AND ACCEPTANCE. SUBMIT COMMISSIONING COMPLIANCE CHECKLIST TO BUILDING OFFICIAL UPON COMPLETION. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

16 MOTOR EFFICIENCY SHALL NOT BE LESS THAN THE MINIMUM AS REQUIRED BY SECTION C405.8 FOR FULL LOAD EFFICIENCIES.

# WASHINGTON STATE PLUMBING CODE NOTES

1 PROVIDE HANGERS AND SUPPORTS FOR ALL PIPE AND EQUIPMENT. HANGER ROD SIZES SHALL COMPLY WITH TABLE 313.6 AND SUPPORTS SHALL COMPLY WITH TABLE 313.3.

TABLE 313.3 - HANGERS AND SUPPORT

| MATERIALS | TYPES OF JOINTS | HORIZONTAL | VERTICAL |
|---|---|---|---|
| CAST | LEAD AND OAKUM | 5 FEET, EXCEPT 10 WHERE 10 FOOT LENGTHS ARE INSTALLED 1,2,3 | BASE AND EACH FLOOR, NOT TO EXCEED 15 FEET |
| | COMPRESSION GASKET | EVERY OTHER JOINT, UNLESS OVER 4 FEET, THEN SUPPORT EACH JOINT 1,2,3 | BASE AND EACH FLOOR, NOT TO EXCEED 15 FEET |
| CAST IRON HUBLESS | SHIELDED COUPLING | EVERY OTHER JOINT, UNLESS OVER 4 FEET, THEN SUPPORT EACH JOINT 1,2,3,4 | BASE AND EACH FLOOR, NOT TO EXCEED 15 FEET |
| COPPER AND COPPER-ALLOYS | SOLDERED, BRAZED, THREADED OR MECHANICAL | 1 1/2 INCHES AND SMALLER, 6 FEET; 2 INCHES AND LARGER, 10 FEET | EACH FLOOR, NOT TO EXCEED 10 FEET 5 |
| STEEL PIPE FOR WATER OR DWV | THREADED OR WELDED | 3/4 INCH AND SMALLER, 10 FEET; 2 INCHES AND LARGER, 12 FEET | EVERY OTHER FLOOR, NOT TO EXCEED 25 FEET 5 |
| STEEL PIPE FOR GAS | THREADED OR WELDED | 1/2 INCH, 6 FEET; 3/4 INCH AND 1 INCH, 8 FEET; 1 1/4 INCHES AND LARGER, 10 FEET | 1/2 INCH, 6 FEET; 3/4 INCH AND 1 INCH, 8 FEET; 1 1/4 INCHES EVERY FLOOR LEVEL |
| SCHEDULE 40 PVC AND ABS DWV | SOLVENT CEMENTED | ALL SIZES, 4 FEET; ALLOW FOR EXPANSIONS EVERY 30 FEET 3 | BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES; PROVIDE FOR EXPANSION EVERY 30 FEET |
| CPVC | SOLVENT CEMENTED | 1 INCH AND SMALLER, 3 FEET; 1 1/4 INCHES AND LARGER, 4 FEET | BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES |
| CPVC-AL-CPVC | SOLVENT CEMENTED | 1/2 INCH, 5 FEET; 3/4 INCH, 65 INCHES; 1 INCH, 6 FEET | BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES |
| LEAD | WIPED OR BURNED | CONTINUOUS SUPPORT | NOT TO EXCEED 4 FEET |
| STEEL | MECHANICAL | IN ACCORDANCE WITH STANDARDS ACCEPTABLE TO AUTHORITY HAVING JURISDICTION | |
| PEX | COLD EXPANSION, INSERT AND COMPRESSION | 1 INCH AND SMALLER, 32 INCHES; 1 1/4 INCHES AND LARGER, 4 FEET | BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES |
| PEX-AL-PEX | METAL INSERT AND METAL COMPRESSION | 1/2 INCH, 3/4 INCH, 1 INCH (ALL SIZES 98 INCHES) | BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES |
| PE-AL-PE | METAL INSERT AND METAL COMPRESSION | 1/2 INCH, 3/4 INCH, 1 INCH (ALL SIZES 98 INCHES) | BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES |
| PE-RT | INSERT AND COMPRESSION | 1 INCH AND SMALLER, 32 INCHES; 1 1/4 INCHES AND LARGER, 4 FEET | BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES |
| POLYPROPYLENE (PP) | FUSION WELD (SOCKET, BUTT, SADDLE, ELECTROFUSION), THREADED (METAL THREADS ONLY), OR MECHANICAL | 1 INCH AND SMALLER, 32 INCHES; 1 1/4 INCHES AND LARGER, 4 FEET | BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES |

TABLE FOOTNOTES:

1. SUPPORT ADJACENT TO JOINT, NOT TO EXCEED 18 INCHES.
2. BRACE NOT TO EXCEED 40 FOOT INTERVALS TO PREVENT HORIZONTAL MOVEMENT.
3. SUPPORT AT EACH HORIZONTAL BRANCH CONNECTION.
4. HANGERS SHALL NOT BE PLACED ON THE COUPLING.
5. VERTICAL WATER LINES SHALL BE PERMITTED TO BE SUPPORTED IN ACCORDANCE WITH RECOGNIZED ENGINEERING PRINCIPLES WITH REGARD TO EXPANSION AND CONTRACTION, WHERE FIRST APPROVED BY THE AUTHORITY HAVING JURISDICTION.

TABLE 313.6 - HANGER ROD SIZES

| PIPE AND TUBE SIZE (INCHES) | ROD SIZE (INCHES) |
|---|---|
| 1/2 - 4 | 3/8 |
| 5 - 8 | 1/2 |
| 10 - 12 | 5/8 |

2 ALL WASTE AND VENT PIPING SHOWN ON PLAN SHALL BE INSTALLED AT 1/4" PER LF OR 2% SLOPE IF NOT OTHERWISE NOTED ON PLAN. SHALLOWER SLOPES SHALL ONLY BE INSTALLED WITH WRITTEN PERMISSION OF THE ENGINEER OF RECORD AND WITH APPROVAL BY THE AHJ.

3 PROVIDE CLEANOUTS FOR STORM DRAINAGE THAT COMPLY WITH SECTION 1101.13.

4 AIR ADMITTANCE VALVES SHALL ONLY BE PROVIDED WHERE SPECIFICALLY SHOWN ON THE APPROVED PLUMBING PERMIT PLANS AND AS APPROVED BY THE AHJ.

5 VENTS THAT EXTEND THROUGH THE ROOF SHALL TERMINATE NO LESS THAN 6" ABOVE THE ROOF LINE AND AT LEAST 12" FROM ANY VERTICAL SURFACE. VENTS SHALL NOT TERMINATE WITHIN 10 FT. OF A MECHANICAL AIR INTAKE OR OPENING INTO THE BUILDING.

6 ALL PIPE, TUBE, FITTINGS SOLVENT CEMENT, SEALANTS AND SOLDERS/FLUX USED IN POTABLE WATER SYSTEMS SHALL COMPLY WITH NSF 61 PER SECTION 604.1 AND PER TABLE 604.1

7 ALL MATERIALS AND EQUIPMENT INTENDED TO CONVEY POTABLE WATER FOR USE BY HUMANS SHALL NOT EXCEED THE LEAD CONTENT MAXIMUMS LISTED IN SECTION 604.2.

8 IN BUILDINGS WITH BOTH POTABLE AND NON-POTABLE WATER, THE PIPE SHALL BE IDENTIFIED TO DIFFERENTIATE THE TWO PER SECTION 601.3. REFER ALSO TO THE REQUIREMENTS OF THE SPECIFICATIONS.

9 PROVIDE CLEANOUTS AS SHOWN ON PLAN AND, AT A MINIMUM, TO COMPLY WITH THE REQUIREMENTS OF SECTION 707.0.

10 PROVIDE SUDS RELIEF ARRANGEMENT OF PIPE PER SECTION 711.1 WHERE SUDS PRODUCING FIXTURES DISCHARGE INTO A RISER SERVING 3 OR MORE STORIES.

11 PROVIDE ALL HOT WATER HEATING DEVICES WITH PRESSURE AND TEMPERATURE LIMITING SAFETY DEVICES PER SECTION 504.4 AND 504.5.

12 THE POTABLE WATER SYSTEM SHALL BE DISINFECTED PRIOR TO USE. THE PIPE SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL POTABLE WATER APPEARS AT ALL OUTLET POINTS. THE SYSTEM SHALL THEN BE FILLED WITH A WATER-CHLORINE SOLUTION PER SPC 609.9(2) AND THEN THE SYSTEM SHALL BE FLUSHED PER SPC 609.9(3).

# APPLICABLE CODES

2021 WASHINGTON STATE BUILDING CODE
2021 WASHINGTON STATE PLUMBING CODE
2021 WASHINGTON STATE ENERGY CODE

# PLUMBING PROJECT NARRATIVE:

1ST FLOOR:
REMOVAL OF EXISTING FIXTURES AND ADDITION OF NEW SINKS TO ACCOMODATE TENANT IMPROVEMENTS. REPLACEMENT OF EXISTING HOT WATER HEATER WITH A HEAT PUMP WATER HEATER. ADDITION OF TANKLESS WATER HEATING AT EACH NEW SINK.

2ND FLOOR:
(ADDITIVE ALTERNATE) ADDITION OF A NEW SINK AT NEW BREAK ROOM. TANKLESS WATER HEATING AT NEW SINK.

# PLUMBING INDEX


| | |
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| P001 | PLUMBING LEGEND AND NOTES |
| P002 | PLUMBING SCHEDULES |
| PD100 | GARAGE LEVEL PLUMBING DEMOLITION PLAN |
| PD101 | LEVEL 1 PLUMBING DEMOLITION PLAN |
| PD102 | LEVEL 2 PLUMBING DEMOLITION PLAN |
| P100 | GARAGE LEVEL PLUMBING PLAN |
| P101 | LEVEL 1 PLUMBING PLAN |
| P102 | LEVEL 2 PLUMBING PLAN |
| P401 | PLUMBING DETAILS |


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1448 ELLIOTT AVE W, SEATTLE, WA 98119
(206) 378-0569 www.greenbusch.com


**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #


**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com



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**PLUMBING LEGEND AND NOTES**
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**P001**

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WeinsteinAU.com
206.443.8606


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## PUMPS SCHEDULE

| EQUIP ID | LOCATION | SERVES | CAPACITY | | | | | TYPE | | | | | | | PUMP MODULATION | VIBRATION ISOLATION | OPER WEIGHT MAX LBS | BASIS OF DESIGN | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | FLOW: GPM | TDH: FT (PSI) | EFF: % | NPSH REQUIRED FT | NPSH AVAILABLE FT | DESCRIPTION | SPEED: RPM | MOTOR HP | VOLT/ PHASE | SUCT CONN: IN | DISCH CONN: IN | IMP DIA: IN. | TYPE | TYPE | | MANUFACTURER | MODEL | |
| HWCP-1 | MECH ROOM | DHWH | 3 | 25 | - | - | - | DOM. HOT WATER CIRC. PUMP | 3450 | 1/3 | 115 / 1 | 1" | 1" | | 0-10V ECM | COUPLINGS | 10 | TACO | 003-IE | 1, 2 |
| CP | IDU, BC, SBC | CONDENSATE | - | 16 | - | - | - | CONDENSATE PUMP | - | - | 115 / 1 | - | 1/4" | | - | NONE | < 1 | BLUEDIAMOND | X96-003 | 1 |
| | | | | | | | | | | | | | | | | | | | | |

NOTES:
1. PROVIDE WITH LOCAL DISCONNECT
2. PROVIDE WITH AQUASTAT CONTROL TO MAINTAIN 100F AT RETURN TO TANK. SCHEDULE CIRCULATOR TO ONLY RUN DURING OCCUPIED HOURS.

## PLUMBING FIXTURE SCHEDULE

| FIXTURE | LOCATION | MARK | SERVICE CONNECTION | | | | FIXTURE DESCRIPTION | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | WASTE | VENT | CW | HW | | |
| SINK | KITCHENETTES | S-1 | 2" | 1-1/2" | 1/2" | 1/2" | UNDERMOUNT 18 GAUGE 304 STAINLESS STEEL SINK.SINGLE BOWL. PUNCHED FOR SPECIFIED FAUCET.<br>BASIS:ELKAY ELUHAD111655PD. INCLUDE LKPD1 PERFECT DRAIN AND STRAINER, AND ALL MOUNTING ACCESSORIES.<br>PROVIDE WITH INSTANT HOT WATER DISPENSER. BASIS OF DESIGN: INSINKERATOR FHC3300 & HWT-F100DS.<br>FAUCET: SINGLE HOLE, SINGLE HANDLE DECK MOUNT, 360 DEG. GOOSENECK SPOUT. 1.5 GPM . CERAMIC CARTRIDGE. DELTA TRINSIC 9959-DST IN MATTE BLACK.<br>SUPPLIES: BRASSCRAFT OR EQUAL BY MCGUIRE OR EASTMAN, MULTI-TURN ANGLE STOP W/LOOSE KEY.<br>STAINLES STEEL, BRAIDED FLEXIBLE RISERS. | - |
| SINK | LACTATION | S-2 | 2" | 1-1/2" | 1/2" | 1/2" | BAR SINK, STAINLESS STEEL, UNDERMOUNT. ADA COMPLIANT<br>BASIS: ELKAY ELUHAD131655PD.<br>PROVIDE WITH FAUCET: DELTA TRINSIC 9959-DST. PROVIDE IN MATTE BLACK.<br>TRAPS AND TAILPIECES: MCGUIRE OR EQUAL, 1-1/2" CHROME PLATED CAST BRASS P-TRAP AND TAILPIECE.<br>SUPPLIES: BRASSCRAFT OR EQUAL BY MCGUIRE OR EASTMAN, MULTI-TURN ANGLE STOP W/LOOSE KEY.<br>STAINLES STEEL, BRAIDED FLEXIBLE RISERS. | - |
| SINK | LUNCH, ADMIN. COFFEE, SUPPLY, L2 KITCHEN | S-3 | 2" | 1-1/2" | 1/2" | 1/2" | UNDERMOUNT 18 GAUGE 304 STAINLESS STEEL SINK.SINGLE BOWL. PUNCHED FOR SPECIFIED FAUCET. ADA COMPLIANT.<br>BASIS: ELKAY ECTRUAD241755. INCLUDE LKPD1 PERFECT DRAIN AND STRAINER, AND ALL MOUNTING ACCESSORIES.<br>PROVIDE WITH INSTANT HOT WATER DISPENSER. BASIS OF DESIGN: INSINKERATOR FHC3300 & HWT-F100DS.<br>FAUCET: SINGLE HOLE, SINGLE HANDLE DECK MOUNT, 360 DEG. GOOSENECK SPOUT. 1.5 GPM . CERAMIC CARTRIDGE. DELTA TRINSIC 9159-DST<br>PROVIDE WITH DISHWASHER AIR GAP.DISHWASHER DRAIN KIT, AND GARBAGE DISPOSAL. AT LUNCH ROOM, ADMIN COFFEE, & L2 KITCHEN. | - |
| LAVATORY | RESTROOMS | L-1 | EXISTING | EXISTING | 1/2" | 1/2" | UNDERMOUNT SINK. SINGLE BOWL, ADA COMPLIANT. BASIS: KOHLER CAXTOM K-20000-0.<br>FAUCET: DELTA TRINSIC 559HAR-BL-DST. PROVIDE IN MATTE BLACK. 0.5 GPM MAX AERATOR. WITH MIXING VALVE, TEMPERING VALVE AND SELF SUSTAINING POWER SYSTEM.<br>SUPPLIES: BASSCRAFT OR EQUAL BY MCGUIRE OR EASTMAN, MULTI-TURN ANGLE STOP W/LOOSE KEY.<br>STAINLES STEEL, BRAIDED FLEXIBLE RISERS. PROVIDE WITH LOCAL MIXING/TEMPERING VALVE; ASSE 1070 COMPLIANT. | 2 |
| SHOWER | RESTROOMS | SH-1 | EXISTING | EXISTING | EXISTING | EXISTING | PROVIDE NEW FIXTURE AT EXISTING SHOWER STALL.<br>DELTA UNIVERSAL 51361-BL & T14059-PP | - |
| FLOOR DRAIN | RESTROOMS | FD-1 | 2" | - | - | - | FD-1: GENERAL ROOM FLOOR DRAIN, 6" DIAMETER TYPE B STRAINER, CAST IRON BODY, ADJUSTABLE COLLAR, NICKEL BRONZE ADJUSTABLE STRAINER HEAD, TRAP PRIMER CONNECTION.<br>BASIS:ZURN Z415B. | - |

NOTES:
A. EXTEND AND CONNECT PIPING TO ALL PLUMBING FIXTURES, FURNISH COMPLETE, FUNCTIONAL SYSTEM.
B. ALL PLUMBING SYSTEMS SHALL BE NSF-61 CERTIFIED.

REMARKS:
1. PROVIDE TMV-2 AT FIXTURE
2. PROVIDE WITH MATTE BLACK P-TRAP COVER.

## WATER SUPPLY AND DRAINAGE FIXTURE UNIT LOAD MATRIX (EXISTING)

| APPLIANCE , APPURTENANCE, OR FIXTURE | QUANTITY | | WSFU PER FIXTURE | | TOTAL WSFU | DFU PER FIXTURE | | TOTAL DFU |
|---|---|---|---|---|---|---|---|---|
| | PRIVATE | PUBLIC | PRIVATE | PUBLIC | | PRIVATE | PUBLIC | |
| FLOOR DRAIN | 0 | 4 | - | - | 0.0 | 2.00 | 2 | 8.0 |
| HOSE BIBB | 1 | 0 | 2.5 | 2.5 | 2.5 | 0.00 | 0 | 0.0 |
| HOSE BIBB, ADDITIONAL | 2 | 0 | 1 | 1 | 2.0 | 0.00 | 0 | 0.0 |
| DRINKING FOUNTAIN / BOTTLE FILLER | 0 | 0 | 0.5 | 0.5 | 0.00 | 0.5 | 0.5 | 0.0 |
| LAVATORY | 0 | 9 | 1 | 1 | 9.0 | 1 | 1 | 9.0 |
| WASH FOUNTAIN, 2-FAUCETS | 0 | 0 | 2 | 2 | 0.0 | 2 | 2 | 0.0 |
| WASH FOUNTAIN, 3-FAUCETS | 0 | 0 | 3 | 3 | 0.0 | 3 | 3 | 0.0 |
| KITCHEN | 0 | 0 | 0 | 60 | 0.0 | 0 | 80 | 0.0 |
| SINK | 0 | 4 | 1.5 | 2 | 8.0 | 2 | 2 | 8.0 |
| SERVICE SINK | 0 | 0 | 1.5 | 3 | 0.0 | 3 | 3 | 0.0 |
| SAFETY SHOWER | 0 | 0 | 20.0 | 20.0 | 0.0 | 20 | 20 | 0.0 |
| SAFETY SHOWER, ADDITIONAL | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| SHOWER | 0 | 2 | 2 | 2 | 4.0 | 2 | 2 | 4.0 |
| URINAL - FLUSH VALVE 0.125 GPF | 0 | 3 | - | - | 45.0 | 2 | 2 | 6.0 |
| WALL BOX - CLOTHES WASHER | 0 | 0 | 4 | 4 | 0.0 | 3 | 3 | 0.0 |
| WATER CLOSETS - FLUSH VALVES | 0 | 10 | - | - | 165.0 | 3 | 4 | 40.0 |
| TOTAL | | 32 | | | 235.5 | | | 75.0 |

NOTES:
1. WASTE AND WATER PIPING ARE DESIGNED TO PRESCRIPTIVE STANDARDS PER 2021 WASHINGTON STATE PLUMBING CODE.
2. WATER SUPPLY FIXTURE UNITS (WSFU) ARE BASED UPON 2021 WASHINGTON STATE PLUMBING CODE TABLE A103.1 (APPENDIX A).
3. DRAINAGE FIXTURE UNITS (DFU) ARE BASED UPON 2021 WASHINGTON STATE PLUMBING CODE TABLE 702.1.

## WATER SUPPLY AND DRAINAGE FIXTURE UNIT LOAD MATRIX (NEW)

| APPLIANCE , APPURTENANCE, OR FIXTURE | QUANTITY | | WSFU PER FIXTURE | | TOTAL WSFU | DFU PER FIXTURE | | TOTAL DFU |
|---|---|---|---|---|---|---|---|---|
| | PRIVATE | PUBLIC | PRIVATE | PUBLIC | | PRIVATE | PUBLIC | |
| FLOOR DRAIN | 0 | 4 | - | - | 0.0 | 2.00 | 2 | 8.0 |
| HOSE BIBB | 1 | 0 | 2.5 | 2.5 | 2.5 | 0.00 | 0 | 0.0 |
| HOSE BIBB, ADDITIONAL | 2 | 0 | 1 | 1 | 2.0 | 0.00 | 0 | 0.0 |
| DRINKING FOUNTAIN / BOTTLE FILLER | 0 | 0 | 0.5 | 0.5 | 0.00 | 0.5 | 0.5 | 0.0 |
| LAVATORY | 0 | 8 | 1 | 1 | 8.0 | 1 | 1 | 8.0 |
| WASH FOUNTAIN, 2-FAUCETS | 0 | 0 | 2 | 2 | 0.0 | 2 | 2 | 0.0 |
| WASH FOUNTAIN, 3-FAUCETS | 0 | 0 | 3 | 3 | 0.0 | 3 | 3 | 0.0 |
| KITCHEN | 0 | 0 | 0 | 60 | 0.0 | 0 | 80 | 0.0 |
| SINK | 0 | 8 | 1.5 | 2 | 16.0 | 2 | 2 | 16.0 |
| SERVICE SINK | 0 | 0 | 1.5 | 3 | 0.0 | 3 | 3 | 0.0 |
| SAFETY SHOWER | 0 | 0 | 20.0 | 20.0 | 0.0 | 20 | 20 | 0.0 |
| SAFETY SHOWER, ADDITIONAL | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| SHOWER | 0 | 2 | 2 | 2 | 4.0 | 2 | 2 | 4.0 |
| URINAL - FLUSH VALVE 0.125 GPF | 0 | 3 | - | - | 45.0 | 2 | 2 | 6.0 |
| WALL BOX - CLOTHES WASHER | 0 | 0 | 4 | 4 | 0.0 | 3 | 3 | 0.0 |
| WATER CLOSETS - FLUSH VALVES | 0 | 9 | - | - | 155.0 | 3 | 4 | 36.0 |
| TOTAL | | 34 | | | 232.5 | | | 78.0 |

NOTES:
1. WASTE AND WATER PIPING ARE DESIGNED TO PRESCRIPTIVE STANDARDS PER 2021 WASHINGTON STATE PLUMBING CODE.
2. WATER SUPPLY FIXTURE UNITS (WSFU) ARE BASED UPON 2021 WASHINGTON STATE PLUMBING CODE TABLE A103.1 (APPENDIX A).
3. DRAINAGE FIXTURE UNITS (DFU) ARE BASED UPON 2021 WASHINGTON STATE PLUMBING CODE TABLE 702.1.

## DOMESTIC HOT WATER HEATER AND ACCESSORIES SCHEDULE

| MARK | REMARKS |
|---|---|
| DHWH-1 | HYBRID ELECTRIC HEAT PUMP WATER HEATER. UEF = 3.45. 208/240 VAC 60HZ 1PHASE WITH BACKUP ELECTRICAL HEATING ELEMENTS. FIRST HOUR RATING = 79 GAL. TANK CAPACITY=66 GAL. WEIGHT=300LBS. WARRANTY = 10 YEARS.<br>BASIS: BRADFORD WHITE RE2H50S10-CON |
| DHWH-2 | ELECTRIC POINT-OF-USE WATER HEATER.4.1 KILOWATTS. 208V, 60 HZ. SINGLE PHASE. 20 A. BASIS OF DESIGN: EEMAX SPEX4208T. OR ACCEPTED EQUAL. |
| TMV-1 | THERMOSTATIC MIXING VALVE. RATED FOR MAIN WATER HEATER SERVICE. SIZED TO MATCH FIXTURE LOAD. BASIS:LAWLER, LEONARD, OR BY PRIOR APPROVAL. |
| TMV-2 | THERMOSTATIC MIXING VALVE. ASSE 1070 AT EACH SINK. SIZED TO MATCH FIXTURE LOAD. BASIS:LAWLER, LEONARD, OR BY PRIOR APPROVAL. |

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THE GREENBUSCH GROUP, INC
ACOUSTICAL, AUDIO / VIDEO & MECHANICAL ENGINEERING
1448 ELLIOTT AVE W, SEATTLE, WA 98119
(206) 378-0588 www.greenbusch.com

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #

**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com

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**PLUMBING SCHEDULES**
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**P002**

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1 GARAGE LEVEL PLUMBING DEMOLITION PLAN
SCALE: 3/16" = 1'-0"

## SHEET KEYNOTES:

1 PLUMBING FIXTURE ABOVE BEING REMOVED. DEMO BACK TO MAIN AND CAP BELOW FLOOR LEVEL.

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1445 ELLIOTT AVE W. SEATTLE, WA 98119
(206) 378-0569 www.greenbusch.com


**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #


**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com



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**GARAGE LEVEL PLUMBING DEMOLITION PLAN**
Sheet Title

**PD100**

DYLAN E. RICHARD
STATE OF WASHINGTON
26973
REGISTERED
PROFESSIONAL ENGINEER

WEINSTEIN A+U
206.443.8606
WeinsteinAU.com


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1 LEVEL 1 PLUMBING DEMOLITION PLAN
SCALE: 3/16" = 1'-0"

## SHEET KEYNOTES:

1. REMOVE PLUMBING FIXTURE. CUT HOT AND COLD WATER IN CEILING. REMOVE ASSOCIATED VENT, WASTE AND SUPPORTS FOR THE FIXTURE.
2. REMOVE EXISTING HOT WATER HEATER. LEAVE HOT AND COLD WATER PIPING SUITABLE FOR RECONNECTION TO NEW WATER HEATER.

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ACOUSTICAL, AUDIO / VIDEO & MECHANICAL ENGINEERING
1445 ELLIOTT AVE W. SEATTLE, WA 98119
(206) 378-0569 www.greenbusch.com


**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #


**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com



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**LEVEL 1 PLUMBING DEMOLITION PLAN**
Sheet Title

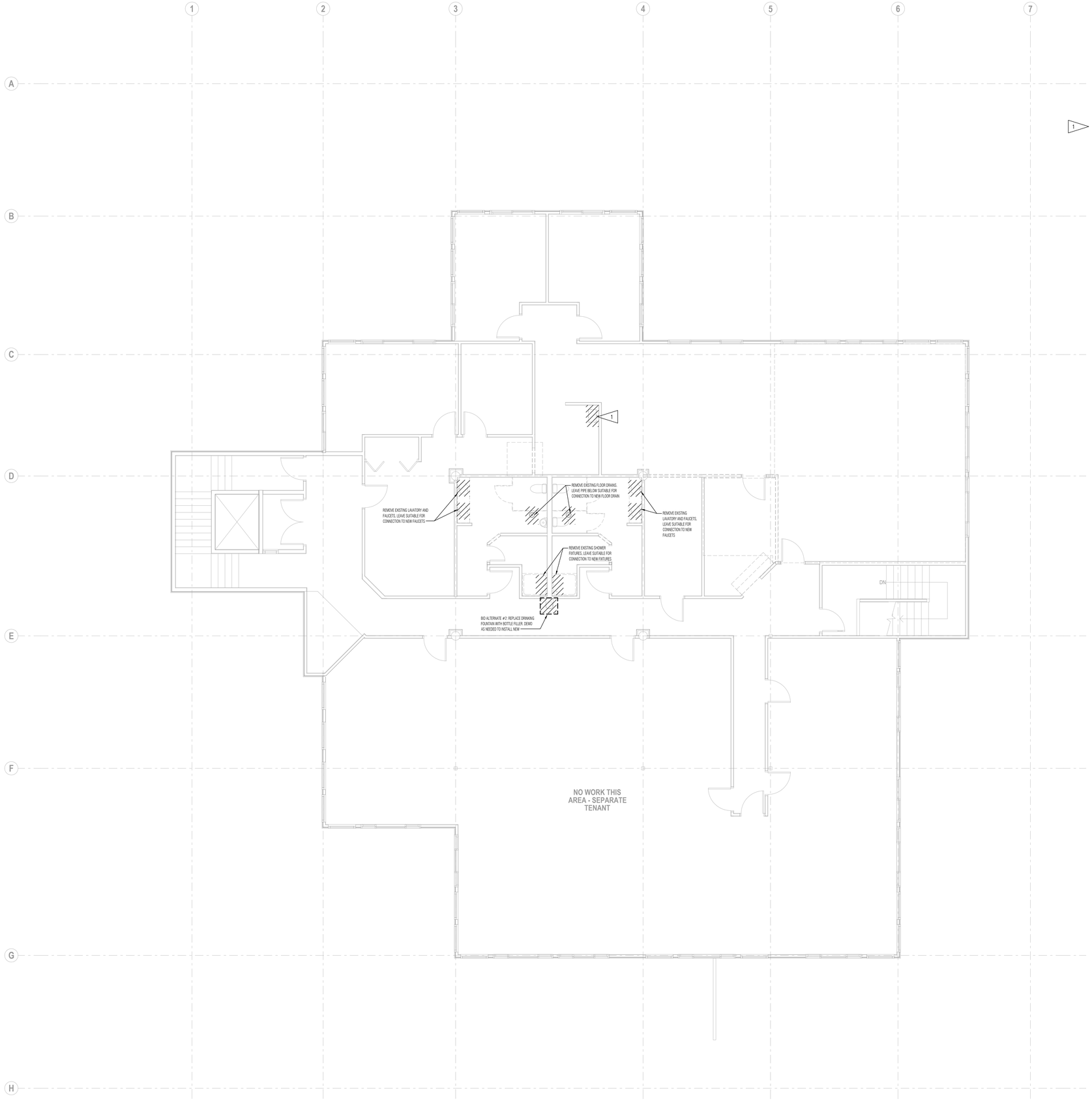
**PD101**

DYLAN E. RICHARD JUDD
STATE OF WASHINGTON
26973
REGISTERED PROFESSIONAL ENGINEER

WEINSTEIN A+U
206.443.8606
WeinsteinAU.com


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1 LEVEL 2 PLUMBING DEMOLITION PLAN
SCALE: 3/16" = 1'-0"

## SHEET KEYNOTES:

1 REMOVE PLUMBING FIXTURE, CUT HOT AND COLD WATER IN CEILING. REMOVE ASSOCIATED VENT, WASTE, AND SUPPORTS FOR THE FIXTURE.

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ACOUSTICAL, AUDIO / VIDEO & MECHANICAL ENGINEERING
1448 ELLIOTT AVE W, SEATTLE, WA 98119
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Project #

**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
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JURISDICTIONAL APPROVAL STAMP

**BID SET**
Issue

**7/18/25**
Issue Date

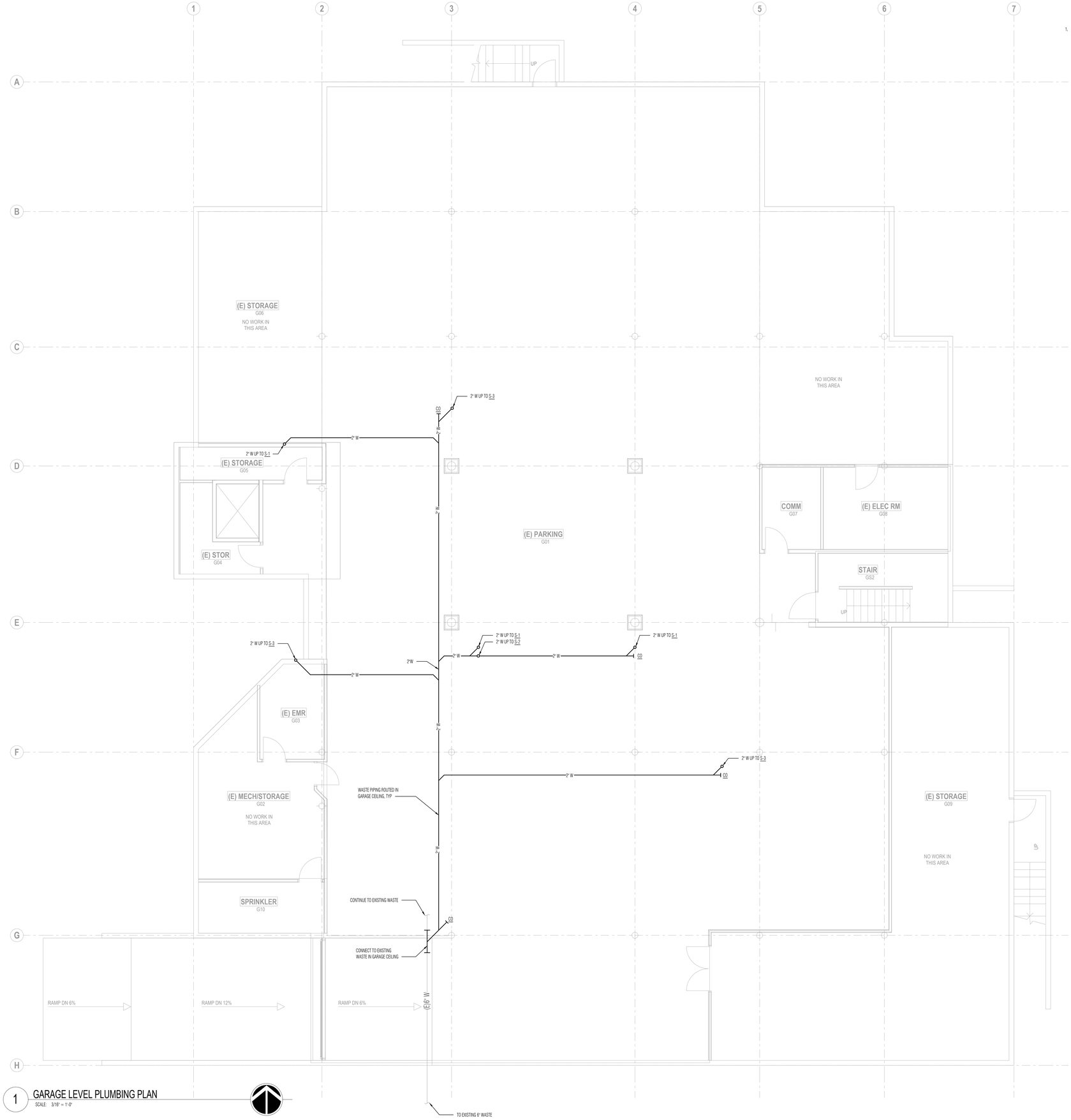
**LEVEL 2 PLUMBING DEMOLITION PLAN**
Sheet Title

**PD102**

BRIAN RICHARD TUMA — STATE OF WASHINGTON — 23373 — REGISTERED PROFESSIONAL ENGINEER — 7-17-25

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1 GARAGE LEVEL PLUMBING PLAN
SCALE: 3/16" = 1'-0"

## SHEET NOTES:

1. PIPING IS DIAGRAMMATIC. PROVIDE FITTINGS AND OFFSETS AS REQUIRED TO AVOID WORK OF OTHER TRADES AND AS REQUIRED FOR A CODE COMPLIANT INSTALLATION.

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ACOUSTICAL, AUDIO / VIDEO & MECHANICAL ENGINEERING
1445 ELLIOTT AVE W. SEATTLE, WA 98119
(206) 378-0569 www.greenbusch.com

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #

**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
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**GARAGE LEVEL PLUMBING PLAN**
Sheet Title

**P100**

DEAN E. RICHARD JR. STATE OF WASHINGTON 36973 REGISTERED PROFESSIONAL ENGINEER

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1 LEVEL 1 PLUMBING PLAN
SCALE: 3/16" = 1'-0"

## SHEET NOTES:

1. PIPING IS DIAGRAMMATIC. PROVIDE FITTINGS AND OFFSETS AS REQUIRED TO AVOID WORK OF OTHER TRADES AND AS REQUIRED FOR A CODE COMPLIANT INSTALLATION.

## SHEET KEYNOTES:

1. CONNECT TO SECOND FLOOR LAVATORIES HOT WATER SERVICE. INCLUDE FIELD ROUTING AND EXTENSION OF HOT WATER RECIRCULATION TO EACH FIXTURE. PROVIDE BALANCE VALVES AT EACH BRANCH OF HOT WATER RECIRCULATION.
2. CONNECT TO NEAREST SINK TAILPIECE FOR DRAINAGE. 3/4" CONDENSATE TYPICAL.
3. CONNECT NEW FLOOR DRAIN TO EXISTING WASTE BELOW.

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7-18-25

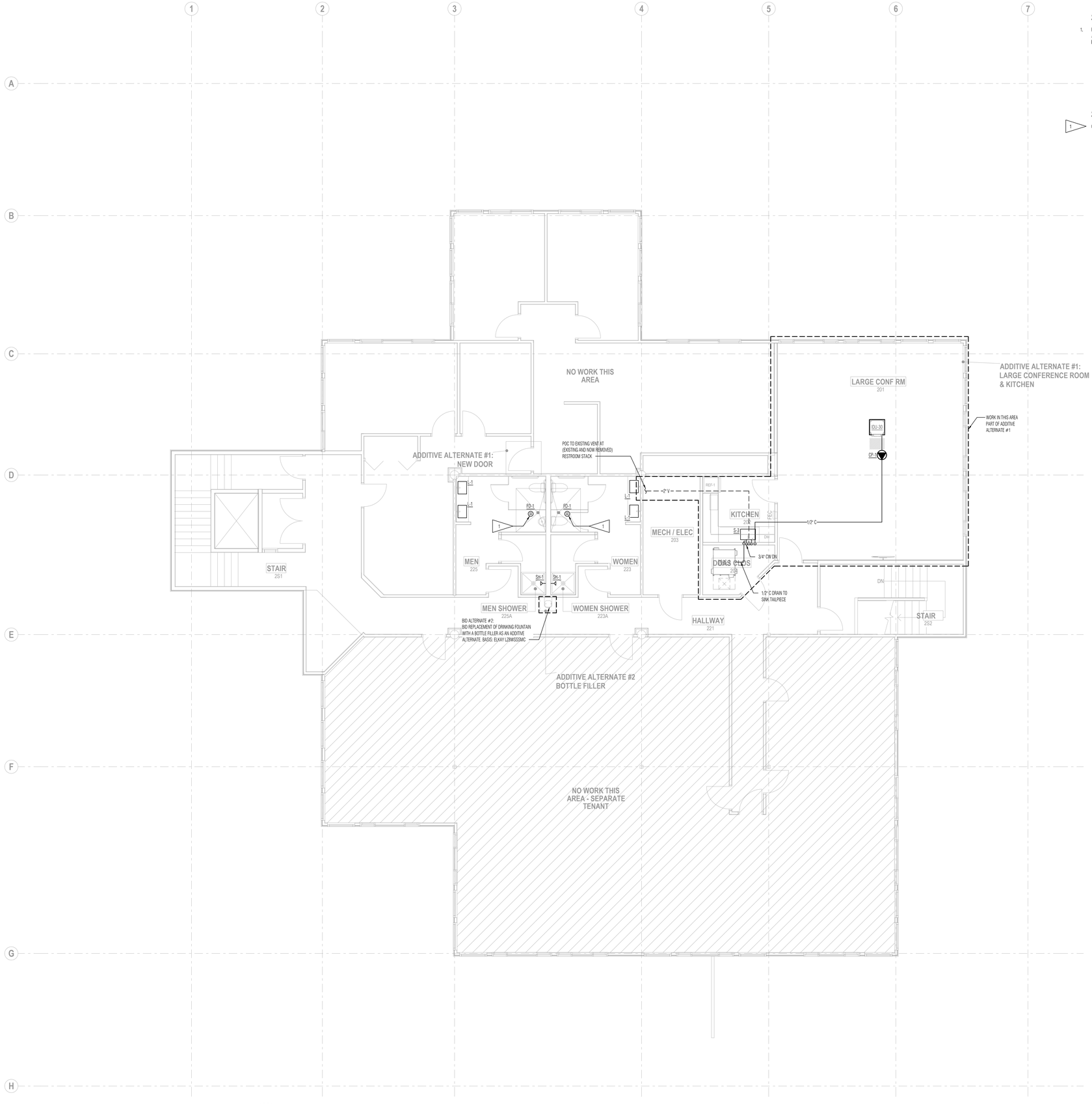
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**LEVEL 1 PLUMBING PLAN**
Sheet Title

**P101**

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1 LEVEL 2 PLUMBING PLAN

SCALE 3/16" = 1'-0"

## SHEET NOTES:

1. PIPING IS DIAGRAMMATIC. PROVIDE FITTINGS AND OFFSETS AS REQUIRED TO AVOID WORK OF OTHER TRADES AND AS REQUIRED FOR A CODE COMPLIANT INSTALLATION.

## SHEET KEYNOTES:

1 CONNECT NEW FLOOR DRAIN TO EXISTING WASTE BELOW.

| Rev | Date | Issue |
|---|---|---|


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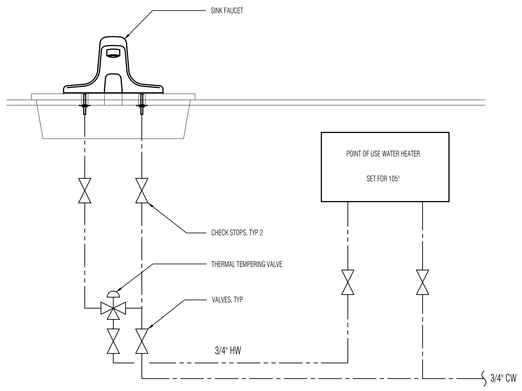
**LEVEL 2 PLUMBING PLAN**
Sheet Title

**P102**

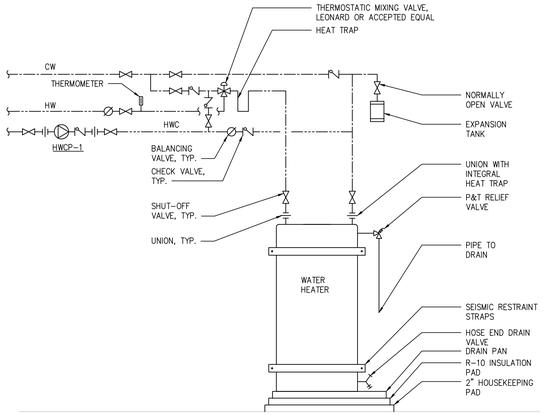

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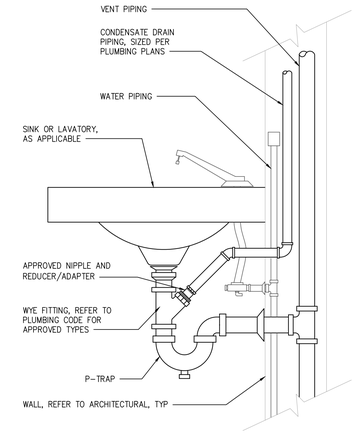
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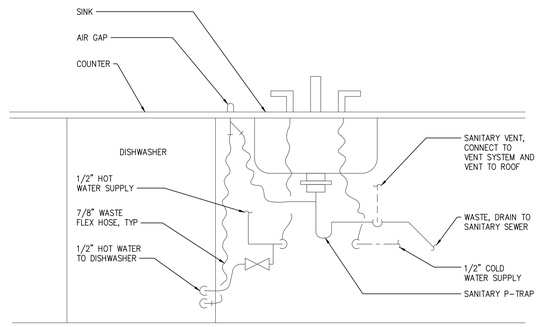

1 P401 POINT OF USE ELECTRIC WATER HEATER DETAIL
SCALE: NTS




2 P401 ELECTRIC WATER HEATER DETAIL
SCALE: NTS




3 P401 SINK TAILPIECE CONDENSATE CONNECTION
SCALE: NTS




4 P401 DISHWASHER CONNECTIONS
SCALE: NTS

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**PLUMBING DETAILS**
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**P401**

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# MECHANICAL ABBREVIATIONS

| | |
|---|---|
| AFF | ABOVE FINISHED FLOOR |
| ASTM | AMERICAN SOCIETY FOR TESTING AND MATERIALS |
| B.O. | BOTTOM OF |
| BFF | BELOW FINISHED FLOOR |
| BP | BOOSTER PUMP |
| CIRC | CIRCULATING |
| CO | CLEAN OUT |
| COND | CONDENSATE |
| COORD | COORDINATE |
| CW | COLD WATER |
| DCVA | DOUBLE CHECK VALVE ASSEMBLY |
| DDCVA | DOUBLE DETECTOR CHECK VALVE ASSEMBLY |
| DEG | DEGREE |
| DIA | DIAMETER |
| DN | DOWN |
| DWG | DRAWING |
| E | EXISTING |
| EA | EACH, EXHAUST AIR |
| EAT | ENTERING AIR TEMPERATURE |
| ELEV | ELEVATION |
| EPA | ENVIRONMENTAL PROTECTION AGENCY |
| ESP | EXTERNAL STATIC PRESSURE |
| ET | EXPANSION TANK |
| EWT | ENTERING WATER TEMPERATURE |
| F | FAHRENHEIT |
| FCO | FLOOR CLEANOUT |
| FD | FlOOR DRAIN |
| FLA | FULL LOAD AMPS |
| FOIC | FURNISHED BY OWNER, |
| 0 | INSTALLED BY CONTRACTOR |
| FPM | FEET PER MINUTE |
| FS | FLOOR SINK |
| FT | FOOT, FEET |
| G | NATURAL GAS |
| GA | GAUGE |
| GAL | GALLONS |
| GPM | GALLONS PER HOUR |
| GW | GREASE WASTE |
| HD | HEAD |
| HP | HORSEPOWER |
| HW | HOT WATER |
| HWC | HOT WATER CIRCULATION |
| ID | INDIRECT DRAIN, INSIDE DIAMETER |
| IE | INVERT ELEVATION |
| IN | INCH |
| KW | KILOWATT, (1000 WATTS) |
| LAT | LEAVING AIR TEMPERATURE |
| LF | LINEAR FEET |
| LWT | LEAVING WATER TEMPERATURE |
| MCA | MINIMUM CIRCUIT AMPS |
| MFR | MANUFACTURER |
| MIN | MINIMUM |
| MOD | MOTOR OPERATED DAMPER |
| NC | NORMALLY CLOSED |
| NIC | NOT IN CONTRACT |
| NO | NORMALLY OPEN |
| NTS | NOT TO SCALE |
| OAT | OUTSIDE AIR TEMPERATURE |
| ORL | OVERFLOW RAINWATER LEADER |
| PH | PHASE |
| POC | POINT OF CONNECTION |
| PPM | PARTS PER MILLION |
| PRV | PRESSURE REDUCING VALVE |
| PSI | POUNDS PER SQUARE INCH |
| PW | PUMPED WASTE |
| RPBA | REDUCED PRESSURE BACKFLOW ASSEMBLY |
| RPBP | REDUCED PRESSURE BACKFLOW PREVENTOR |
| RPM | REVOLUTIONS PER MINUTE |
| RWL | RAINWATER LEADER |
| WSBC | WASHINGTON STATE BUILDING CODE |
| WSEC | WASHINGTON STATE ENERGY CODE |
| WSMC | WASHINGTON STATE MECHANICAL CODE |
| SP | STATIC PRESSURE |
| WSPC | WASHINGTON STATE PLUMBING CODE |
| SPD | STATIC PRESSURE DROP |
| SPEC | SPECIFICATIONS |
| SS | SANITARY SEWER |
| T.O. | TOP OF |
| TDH | TOTAL DYNAMIC HEAD |
| TMV | TEMPERATURE MIXING VALVE |
| TPD | TOTAL PRESSURE DROP |
| TSP | TOTAL STATIC PRESSURE |
| TYP | TYPICAL |
| UL | UNDERWRITER'S LABORATORY |
| UON | UNLESS OTHERWISE NOTED |
| UPC | UNIFORM PLUMBING CODE |
| V | VOLT, VENT |
| VTR | VENT THRU ROOF |
| W | WASTE |
| W/ | WITH |
| WB | WET BULB TEMPERATURE |
| WHA | WATER HAMMER ARRESTER |

# MECHANICAL LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| | PIPE ELBOW DOWN |
| | PIPE ELBOW UP |
| | FLANGE |
| | FLEX CONNECTION |
| | TEE OUTLET UP |
| | TEE OUTLET DOWN |
| | AUTOMATIC AIR VENT |
| | BALL VALVE |
| | BALANCING VALVE |
| | BUTTERFLY VALVE |
| | CHECK VALVE |
| | GATE VALVE |
| | GLOBE VALVE |
| | PIPE SIZE REDUCTION |
| | PIPE CAP |
| | DIRECTION OF FLOW |
| | BREAK IN PIPE OR DUCT |
| | CLEARANCE REQUIREMENT |
| | WORK TO BE REMOVED |
| | REVISION CLOUD |
| XX OR XX | EQUIPMENT ITEM XX |
| SD-X / XXX | DIFFUSER TAG WITH CFM AMOUNT |
| X/Y | DUCT DIMENSION TAG: X PLAN OR HORIZONTAL DIMENSION, Y ELEVATION OR VERTICAL DIMENSION |
| 1 | FLAG NOTE |
| 1 | REVISION NOTE |
| X / XX | DETAIL OR SECTION CALLOUT |
| | SECTION CUT LINE |
| | LINE, ARCH. BACKGROUND |
| | LIGHT LINE, EXISTING |
| | HEAVY LINE, NEW WORK |
| | COLD WATER |
| —HWS— | HEATING WATER SUPPLY |
| — —HWR— — | HEATING WATER RETURN |
| — — RS — — | REFRIGERANT SUCTION |
| —RL— | REFRIGERANT LIQUID |
| —C— | CONDENSATE DRAIN |
| —CA— | COMPRESSED AIR |

| SYMBOL | DESCRIPTION |
|---|---|
| | BACKDRAFT DAMPER |
| | FIRE DAMPER |
| | FIRE AND SMOKE DAMPER |
| | VOLUME DAMPER, MANUAL |
| M | MOTOR OPERATED DAMPER |
| DN | DUCT OFFSET DOWN IN FLOW DIRECTION |
| UP | DUCT OFFSET UP IN FLOW DIRECTION |
| | DUCT WITHOUT SOUND LINING |
| | DUCT WITH INTERNAL ACOUSTICAL LINING |
| | SINGLE LINE DUCT WITH INTERNAL LINING |
| | FLEXIBLE CONNECTION OR FLEXIBLE DUCT |
| | FLEXIBLE DUCT |
| | TRANSITION - RECTANGULAR TO ROUND |
| | 90° ROUND ELBOW (R/D OR R/W=1.5) |
| | RECTANGULAR ELBOW WITH TURNING VANES |
| | SUPPLY AIR DUCT UP |
| | SUPPLY AIR DUCT DOWN |
| | SUPPLY DIFFUSER OR GRILLE |
| | LINEAR DIFFUSER |
| | SUPPLY AIR OUTLET, SIDEWALL |
| | RETURN AIR DUCT UP |
| | RETURN AIR DUCT DOWN |
| | RETURN AIR GRILLE |
| | RETURN AIR INLET, SIDEWALL |
| | EXHAUST DUCT UP |
| | EXHAUST DUCT DOWN |
| | EXHAUST AIR GRILLE |
| | EXHAUST AIR OUTLET, SIDEWALL |
| T OR T | THERMOSTAT |
| CO2 | CARBON DIOXIDE SENSOR |
| S | SENSOR |
| H | HUMIDISTAT |
| $ | SWITCH |
| $T | TIMER SWITCH |

# MECHANICAL GENERAL NOTES

1 THE CONTRACTOR'S SCOPE OF WORK SHALL CONSIST OF ALL WORK SHOWN ON THE DRAWINGS, INCLUDING PLANS, DIAGRAMS, DETAILS, ETC., AND ALL WORK AS IDENTIFIED IN THE SPECIFICATIONS. WORK INCLUDES FURNISHING, INSTALLING SYSTEM, INTEGRATION, TESTING, TRAINING AND WARRANTY OF THE MECHANICAL SYSTEMS AS SHOWN AND SPECIFIED.

2 PROVIDE A COMPLETE AND OPERABLE MECHANICAL SYSTEM. THE SYSTEM SHALL BE PROVIDED COMPLETE WITH ALL MECHANICAL WORK AS REQUIRED FOR SYSTEM OPERATION PER THE SEQUENCE OF OPERATION.

3 ALL MECHANICAL WORK SHALL COMPLY WITH LOCAL CODES AND REGULATIONS. WHERE WORK SHOWN IS IN CONFLICT WITH THE LOCAL CODE THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF THE CONFLICT AND WAIT FOR WRITTEN RESOLUTION PRIOR TO PROCEEDING. WHERE WORK IS SHOWN TO BE ABOVE AND BEYOND THE REQUIREMENTS OF THE CODE PROVIDE WORK AS SHOWN IN THE CONTRACT DOCUMENTS.

4 THE DESIGN OF MECHANICAL SYSTEMS HAS BEEN BASED UPON THE EQUIPMENT AS MANUFACTURED BY THE MANUFACTURERS LISTED ON THE EQUIPMENT SCHEDULE OR IN THE SPECIFICATION. EQUIPMENT NAMED IN THE SPECIFICATIONS MAY BE SUBSTITUTED PROVIDED THAT THE EQUIPMENT MEETS OR EXCEEDS ALL SCHEDULED AND SPECIFIED CRITERIA AND HAS THE PRIOR WRITTEN APPROVAL OF THE ENGINEER. COORDINATE REVISIONS TO THE INSTALLATION WITH ALL TRADES AND GUARANTEE IN WRITING THAT NO ADDITIONAL COST WILL BE INCURRED DUE TO PRODUCT SUBSTITUTION.

5 CONTRACTOR SHALL FIELD VERIFY ALL BUILDING AND SITE DIMENSIONS BEFORE BEGINNING CONSTRUCTION OR ORDERING EQUIPMENT. DO NOT SCALE FROM PLANS. PLANS PROVIDED ARE DIAGRAMMATIC IN NATURE AND DO NOT SHOW ALL REQUIRED OFFSETS, TRANSITIONS, OR CHANGES IN DIRECTION. PROVIDE ALL OFFSETS REQUIRED.

6 DUCT SIZES SHOWN ON PLAN ARE INTENDED TO INDICATE THE REQUIRED INTERIOR FREE AND CLEAR DIMENSIONS OF THE AIR STREAM. COORDINATE ACTUAL DUCT OUTER DIMENSIONS WITH REQUIREMENTS FOR HANGERS, SUPPORTS, THERMAL AND ACOUSTICAL INSULATION.

7 CONTRACTOR SHALL COORDINATE ALL MECHANICAL WORK WITH OTHER TRADES AND SUBCONTRACTORS PRIOR TO INSTALLATION OF ANY WORK BY ANY TRADES. DURING COORDINATION EFFORTS DUCT ROUTING SHALL TAKE PRECEDENCE OVER PLUMBING PIPE AND FIRE SPRINKLER WORK. PROVIDE SHOP DRAWINGS FOR REVIEW BY ENGINEER PRIOR TO INSTALLATION AND FABRICATION TO DOCUMENT THE RESULTS OF THE COORDINATION.

8 PENETRATIONS THROUGH ROOF OR EXTERIOR WALLS SHALL BE SEALED WEATHER TIGHT. PENETRATIONS THROUGH CEILING OR INTERIOR WALLS SHALL BE SEALED SUBSTANTIALLY AIRTIGHT. BELOW GRADE WALLS OR SLABS SHALL BE SLEEVED AND SEALED WATERTIGHT. PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE TREATED TO MEET OR EXCEED THE FIRE RATINGS OF SUCH WALLS.

9 CONFINE THE APPLICATION OF FLEXIBLE DUCTWORK TO LOCATIONS INDICATED BY THE CONTRACT DOCUMENTS. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL NOT EXCEED SIX FEET WHERE ALLOWED BY THE CONTRACT DOCUMENTS.

10 PROVIDE ALL REQUIRED ELECTRICAL POWER, MOTOR STARTERS, MOTOR CONTROL INTERFACES, CONTROL SWITCHES, AND CONNECTIONS AS REQUIRED FOR SYSTEM OPERATION AND TO EXECUTE THE SEQUENCE OF OPERATIONS. COORDINATE LINE VOLTAGE WORK REQUIREMENTS WITH THE JOBSITE ELECTRICAL CONTRACTOR.

11 PROVIDE ALL REQUIRED EQUIPMENT GUARDS AND STRUCTURAL SUPPORTS AS RECOMMENDED BY EQUIPMENT MANUFACTURERS TO SUPPORT EQUIPMENT AND TO ASSURE SYSTEM PERFORMANCE AND SAFE OPERATION. COORDINATE PRIOR TO INSTALLATION.

12 PROVIDE ACCESS PANELS AS REQUIRED TO MAINTAIN EQUIPMENT, ACCESS VALVES, AND DUCT ACCESSORIES. COORDINATE FIRE RATING OF SUCH PANELS WITH THE ARCHITECTURAL DOCUMENTS. ACCESS PANELS SHALL BE MINIMUM SIZE REQUIRED TO SERVICE EQUIPMENT PER THE MANUFACTURER'S WRITTEN INSTRUCTIONS. IF NO MINIMUM SIZE IS GIVEN THE PANEL SHALL BE NO SMALLER THAN 12" BY 12" IN SIZE.

13 COORDINATE LOCATION OF ALL THERMOSTATS, AND ALL WALL MOUNTED EQUIPMENT, WITH THE ARCHITECT. THE LOCATIONS AS SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS. IF NOT SHOWN ON ARCHITECTURAL ELEVATIONS, MOUNT WITH TOP OF EQUIPMENT NO HIGHER THAN 44" ABOVE FINISHED FLOOR.

14 PROVIDE UNIT SUPPORT PER MANUFACTURERS RECOMMENDATIONS. BUILDING AND STRUCTURE IS DESIGNED TO SUPPORT EQUIPMENT, BUT NOT DETAILED TO ACCOMMODATE EACH AVAILABLE EQUIPMENT CONFIGURATION OR MANUFACTURER. CONTRACTOR SHALL PROVIDE MATERIALS AND SERVICES INCLUDING BUT NOT LIMITED TO, ADDITIONAL STEEL, SUPPORT BRACKETS, HANGERS, ACCESSORIES, AND STRUCTURAL ENGINEERING AS REQUIRED TO SUPPORT EQUIPMENT.

15 PROVIDE FRAMING, CUTTING, BLOCKING AND PATCHING AS REQUIRED.

16 SEAL ALL DUCT JOINTS AND SEAMS WITH DUCT MASTIC. WHERE SEAMS ARE EXPOSED OR WILL BE VISIBLE TO THE OCCUPANT MASTIC SHALL BE APPLIED USING METHODS WHICH LEAVE THE RESULTING SEAL CLEAN AND TIDY. COORDINATE WITH ARCHITECTURAL SCOPE IF DUCTS ARE TO BE PAINTED AND TREAT DUCT SEALS APPROPRIATELY.

17 PROVIDE MINIMUM 1" THICK ACOUSTICAL INSULATION AT THE FOLLOWING LOCATIONS: 1) DUCT WORK WITHIN 10' OF THE FAN; 2) MIXED AIR AND ECONOMIZER PLENUMS; 3) PLENUMS UPSTREAM OF RETURN FANS; 4) TRANSFER AIR DUCTS; & 5) AS SHOWN ON THE DRAWINGS.

18 PROVIDE VOLUME DAMPERS AT EACH GRILLE, REGISTER, OR DIFFUSER SHOWN ON PLAN. PROVIDE AT BRANCH DUCTS AS SHOWN ON THE PLAN. VOLUME DAMPERS SHOWN AT SOME, BUT NOT ALL, LOCATIONS ON PLAN DOES NOT WAIVE THIS REQUIREMENT. LOCATE DAMPER OPERATOR IN AN ACCESSIBLE LOCATION, PROVIDE ACCESS PANEL OR REMOTE ACTUATION IF ABOVE HARD-LID. FLAG EACH CONCEALED VOLUME DAMPER WITH MIN 12" LONG ORANGE TAPE UPON INSTALLATION SO THEY MAY BE EASILY IDENTIFIED.

19 MAINTENANCE PROVISIONS: PROVIDE FLANGES OR UNIONS AT ALL PIPE CONNECTIONS TO EQUIPMENT TO ALLOW FOR REMOVAL OR DISASSEMBLY FOR MAINTENANCE.

20 PROVIDE PRESSURE AND TEMPERATURE TEST PORTS AT THE SUPPLY AND RETURN OF EACH PIECE OF EQUIPMENT.

21 REFRIGERANT PIPE SIZES SHOWN ON PLAN ARE FOR REFERENCE ONLY. REFRIGERANT PIPING SHALL BE SIZED AND INSTALLED PER THE MANUFACTURER'S WRITTEN INSTRUCTIONS. REFRIGERANT PIPE SHALL BE INSTALLED INSULATED FOR ITS ENTIRE LENGTH.

22 WHERE SPLIT SYSTEM EQUIPMENT REQUIRES CONTROL OR POWER WIRING BETWEEN INDOOR AND OUTDOOR UNITS THE MECHANICAL CONTRACTOR SHALL MAKE PROVISIONS TO PROVIDE THE REQUIRED CONDUIT, WIRE, AND SHALL COORDINATE AND PAY FOR THE SUPPORT OF THE JOBSITE ELECTRICIAN FOR ANY LINE/HIGH VOLTAGE WORK REQUIRED FOR A COMPLETE INSTALLATION.

23 PROVIDE SELF REGULATING HEAT TRACE TO ALL PIPE EXPOSED TO FREEZING CONDITIONS. INSULATE ABOVE HEAT TRACE WITH A MINIMUM OF 1.5" THICK INSULATION. INSULATION SHALL BE SUITABLE FOR THE APPLICATION AND ENVIRONMENTAL CONDITIONS.

24 WHERE NON-METAL PIPE IS INSTALLED UNDERGROUND PROVIDE INSULATED TRACER WIRE ALONG THE PIPE'S PATH. THE TRACER WIRE SHALL BE SUITABLE FOR DIRECT BURIAL AND TERMINATE ABOVE GRADE ON BOTH ENDS OF THE PIPE RUN.

25 SCOPE OF DEMOLITION WORK IS DIAGRAMMATIC IN NATURE. THE PLANS DO NOT ATTEMPT TO SHOW EVERY EXISTING FITTING OR DEVICE IN A SYSTEM WHICH MAY REQUIRED DEMOLITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS, DIMENSIONS AND QUANTITIES. WHERE A SYSTEM OR DEVICE IS INDICATED FOR DEMOLITION IT IS THE CONTRACTOR'S RESPONSIBILITY TO FULLY DEMOLISH THE INDICATED SYSTEM, MAKING SAFE ANY ELECTRICAL CONNECTIONS, CAPPING OF PIPES/DUCTS THAT ARE NOT FULLY DEMOLISHED, PROTECTING SYSTEMS WHICH ARE TO REMAIN, AND FULLY DISPOSING OF ALL DEMOLISHED EQUIPMENT THAT HAS NOT BEEN SPECIFIED TO BE RETAINED/SALVAGED TO THE OWNER.

26 GAPS AROUND DUCT/ PIPE PENETRATIONS IN FULL HEIGHT WALLS TO BE NOMINAL 3/8" AND SEALED WITH RESILIENT ACOUSTICAL CAULK.

27 MINIMUM 3 FT. INSULATED FLEX DUCT CONNECTIONS FOR DOAS SUPPLY DIFFUSERS IN OFFICES, CONFERENCE ROOMS, ETC.

# WASHINGTON STATE MECHANICAL CODE NOTES

1 ALL EQUIPMENT SHALL BE PROVIDED WITH PERMANENT FACTORY APPLIED NAMEPLATES PER SECTION 301.9. REFER TO SPECIFICATIONS FOR PROJECT SPECIFIC LABELING REQUIREMENTS.

2 ALL EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 303 WHEN INSTALLED IN A LOCATION NOT AS SHOWN ON THE DESIGN PLANS.

3 ALL PIPING SHALL BE SUPPORTED PER TABLE 305.4.

TABLE 305.4 - PIPING SUPPORT SPACINGa

| PIPING MATERIAL | MAXIMUM HORIZONTAL SPACING (FT) | MAXIMUM VERTICAL SPACING (FT) |
|---|---|---|
| ABS PIPE | 4 | 10c |
| ALUMINUM PIPE AND TUBING | 10 | 15 |
| CAST IRON PIPEb | 5 | 15 |
| COPPER OR COPPER-ALLOY PIPE | 12 | 10 |
| COPPER OR COPPER-ALLOY TUBING | 8 | 10 |
| CPVC PIPE OR TUBING, 1 INCH AND SMALLER | 3 | 10c |
| CPVC PIPE OR TUBING, 1 1/4 INCHES AND LARGER | 4 | 10c |
| LEAD PIPE | CONTINUOUS | 4 |
| PB PIPE OR TUBING | 2-2/3 (32 INCHES) | 4 |
| PE-RT 1 INCH AND SMALLER | 2-2/3 (32 INCHES) | 10c |
| PE-RT 1 1/4 INCHES AND LARGER | 4 | 10c |
| PEX TUBING 1 INCH AND SMALLER | 2-2/3 (32 INCHES) | 10c |
| PEX TUBING 1 1/4 INCHES AND LARGER | 4 | 10c |
| POLYPROPYLENE (PP) PIPE OR TUBING, 1 INCH AND SMALLER | 2-2/3 (32 INCHES) | 10c |
| POLYPROPYLENE (PP) PIPE OR TUBING, 1 1/4 INCHES AND LARGER | 4 | 10c |
| PVC PIPE | 4 | 10c |
| STEEL TUBING | 8 | 10 |
| STEEL PIPE | 12 | 15 |

TABLE FOOTNOTES:

a. SEE SECTION 301.18.
b. THE MAXIMUM HORIZONTAL SPACING OF CAST IRON PIPE HANGERS SHALL BE INCREASED TO 10 FT. WHERE 10-FOOT LENGTHS OF PIPE ARE INSTALLED.
c. MID-STORY GUIDE.

4 PROVIDE EQUIPMENT WITH SERVICE AND INSTALLATION CLEARANCES PER MANUFACTURER'S WRITTEN INSTRUCTIONS. ALL EQUIPMENT SHALL BE INSTALLED WITH A LEVEL WORKING SPACE NOT LESS THAN 30 INCH BY 30 INCH ON THE MAINTENANCE SIDE OF THE EQUIPMENT PER SECTION 306.1 WHERE SMALLER AREAS ARE NOTED BY THE MANUFACTURER'S GUIDES.

5 ROUTE ALL CONDENSATE PIPING PER PLAN AND AT SIZE SHOWN ON PLAN. WHERE NOT SHOWN ON PLAN, CONDENSATE SHALL BE ROUTED TO THE NEAREST FIXTURE TAILPIECE AND SHALL BE SIZED PER TABLE 307.2.2. WHERE OVERFLOW OF THE PRIMARY CONDENSATE MAY CAUSE DAMAGE TO BUILDING COMPONENTS, PROVIDE AN AUXILIARY AND SECONDARY DRAIN SYSTEM PER SECTION 307.2.3.

TABLE 307.2.2 - CONDENSATE DRAIN SIZING

| EQUIPMENT CAPACITY | MINIMUM CONDENSATE PIPE DIAMETER |
|---|---|
| UP TO 20 TONS OF REFRIGERATION | 3/4 INCH |
| OVER 20 TONS TO 40 TONS OF REFRIGERATION | 1 INCH |
| OVER 40 TONS TO 90 TONS OF REFRIGERATION | 1-1/4 INCH |
| OVER 90 TONS TO 125 TONS OF REFRIGERATION | 1-1/2 INCH |
| OVER 125 TONS TO 250 TONS OF REFRIGERATION | 2 INCH |

6 PROVIDE ALL CONDENSATE LINES WITH TRAPS PER SECTION 307.2.4. DUCTLESS SPLIT SYSTEMS SHALL BE PROVIDED WITH AN INLINE CHECK VALVE PER SECTION 307.2.4.1. CONSULT THE MANUFACTURER'S WRITTEN INSTRUCTIONS FOR INSTALLATION OF TRAPS ON EQUIPMENT CONDENSATE DRAINS.

7 MAINTAIN CLEARANCE TO/FROM OUTSIDE AIR INTAKES PER SECTION 401.4.

8 MAINTAIN CLEARANCE TO/FROM EXHAUST AIR OPENINGS PER SECTION 501.3.1.

9 ALL EQUIPMENT LOCATED IN PLENUMS SHALL BE RATED FOR USE IN PLENUMS.

# WASHINGTON STATE ENERGY CODE NOTES

1 PROVIDE RECORD DOCUMENTS IN ACCORDANCE WITH SECTION C103.6.1. PROVIDE OPERATION AND MAINTENANCE MANUALS IN ACCORDANCE WITH SECTION C103.6.2. PROVIDE THE OWNER WITH THE COMPLIANCE DOCUMENTS REQUIRED BY SECTION C103.6.3. REFER ALSO TO THE PROJECT SPECIFICATIONS FOR ALL CLOSEOUT AND RECORD DOCUMENT REQUIREMENTS. THE DRAWINGS SHALL INDICATE, AT A MINIMUM, THE LOCATION AND PERFORMANCE DATA OF EQUIPMENT, AS-BUILT CONFIGURATION OF DUCTWORK AND PIPING DISTRIBUTION SYSTEMS, INCLUDING FLOW RATE, EQUIPMENT TAGS, AND FIELD VERIFIED DIMENSIONS.

2 PROVIDE OWNER TRAINING PER SECTION C103.6.4 AND AS REQUIRED BY THE PROJECT SPECIFICATIONS. OWNER TRAINING MUST TAKE PLACE BEFORE OWNER OCCUPANCY BUT CAN TAKE PLACE AFTER SUBSTANTIAL COMPLETION HAS BEEN APPROVED.

3 SEAL, GASKET, OR WEATHER STRIP ALL ACCESS DOORS AND PANELS THAT OPEN FROM CONDITIONED SPACES TO UNCONDITIONED SPACES AND PER SECTION C402.5.4.

4 PROVIDE VARIABLE SPEED DRIVES FOR ALL FAN AND PUMP MOTORS GREATER THAN OR EQUAL TO 7.5 HP PER SECTION C403.2.3.

5 HVAC EQUIPMENT SHALL HAVE MINIMUM PERFORMANCE AT SPECIFIED RATING CONDITIONS NOT LESS THAN THE VALUES INDICATED IN TABLE C403.3.2(1)A THROUGH C403.3.2(12) OF THE WASHINGTON STATE ENERGY CODE AND AS INDICATED ON THE CONTRACT DOCUMENTS.

6 MECHANICAL SYSTEM EQUIPMENT SIZING COMPLIES WITH ENERGY CODE COMPLIANCE LIMITS SECTION C403.3.1.

7 PROVIDE EACH ZONE WITH THERMOSTATIC CONTROLS PER SECTION C403.4, AS REQUIRED BY THE PLANS, SPECIFICATIONS, AND TO FULFILL THE SEQUENCE OF OPERATIONS.

8 PROVIDE DEAD BAND BETWEEN HEATING/COOLING SPACE SENSOR SETPOINTS OF 5 DEGREES AS REQUIRED BY SECTION C403.4.1.2 OR AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES. PROVIDE LIMIT SWITCHES PER SECTION C403.4.1.3. PROVIDE OFF HOUR CONTROLS (SETBACK, AUTOMATIC START/STOP, OFF HOUR SCHEDULING, ETC.) PER SECTION C403.4.2.

9 SIMULTANEOUS HEATING AND COOLING TO INDIVIDUAL ZONES SHALL BE PROHIBITED AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES EXCEPT AS PERMITTED BY THE WASHINGTON STATE ENERGY CODE AND APPROVED BY THE BUILDING OFFICIAL.

10 PROVIDE RELAYS AND CONTROLS CAPABLE OF DISABLING THE HEATING/COOLING, OR RESETTING THE ZONE TEMPERATURES, PER SECTION C403.4.1.6 WHERE AN OPERABLE DOOR OPEN FROM A CONDITIONED SPACE TO THE OUTDOORS.

11 THE HVAC SYSTEM AND ITS CONTROLS SHALL ALLOW ECONOMIZER OPERATION AS THE FIRST STAGE OF COOLING WHENEVER MECHANICAL COOLING IS REQUIRED. AIR AND WATER ECONOMIZERS SHALL BE CAPABLE OF PROVIDING PARTIAL COOLING EVEN WHEN ADDITIONAL MECHANICAL COOLING IS REQUIRED TO MEET THE REMAINDER OF THE COOLING LOAD. REFER TO CONTROL SEQUENCES FOR MORE INFORMATION.

12 INSULATE PIPE PER THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS AND PER SECTION C403.10.3 AND PER TABLE C403.10.3.

TABLE C403.10.3 - MINIMUM PIPE INSULATION THICKNESS (INCHES)

| FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F) | INSULATION CONDUCTIVITY | | NOMINAL PIPE OR TUBE SIZE (INCHES) | | | | |
|---|---|---|---|---|---|---|---|
| | CONDUCTIVITY BTU x IN/(H x FT²x °F) | MEAN RATING TEMPERATURE,°F | <1" | 1" TO < 1-1/2" | 1-1/2" TO < 4" | 4" TO <8" | >8" |
| >350 | 0.32-0.34 | 250 | 4.5 | 5.0 | 5.0 | 5.0 | 5.0 |
| 251-350 | 0.29-0.32 | 200 | 3.0 | 4.0 | 4.5 | 4.5 | 4.5 |
| 201-250 | 0.27-0.30 | 150 | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 |
| 141-200 | 0.25-0.29 | 125 | 1.5 | 1.5 | 2.0 | 2.0 | 2.0 |
| 105-140 | 0.21-0.28 | 100 | 1.0 | 1.0 | 1.5 | 1.5 | 1.5 |
| 40-60 | 0.21-0.27 | 75 | 0.5 | 0.5 | 1.0 | 1.0 | 1.0 |
| <40 | 0.20-0.26 | 75 | 0.5 | 1.0 | 1.0 | 1.0 | 1.5 |
| NOTE: REFER TO 2021 WSEC FOR TABLE FOOTNOTES. | | | | | | | |

13 INSULATE ALL DUCT WORK PER THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS AND PER SECTION C403.10.1 AND PER TABLE C403.10.1.1 AND C403.10.1.2.

TABLE C403.10.1.1 - OUTDOOR AIR DUCTWORK INSULATION

| DUCT SYSTEM | DUCT LOCATION AND USE | CLIMATE ZONE | AIRFLOW | MINIMUM INSTALLED DUCT INSULATION R-VALUE |
|---|---|---|---|---|
| OUTDOOR AIR | INSIDE CONDITIONED SPACE AND UPSTREAM OF AUTOMATIC SHUTOFF DAMPER | | ≥2800 CFM | R-16 |
| OUTDOOR AIR | INSIDE CONDITIONED SPACE AND DOWNSTREAM OF AUTOMATIC SHUTOFF DAMPER TO HVAC UNIT OR ROOM | | ≥2800 CFM | R-8 |
| OUTDOOR AIR | INSIDE CONDITIONED SPACE AND DOWNSTREAM OF AUTOMATIC SHUTOFF DAMPER TO HVAC UNIT OR ROOM | 5B | ≥2800 CFM | R-12 |
| OUTDOOR AIR | INSIDE CONDITIONED SPACE | 4C AND 5B | <2800 CFM | R-7 |
| NOTE: REFER TO 2021 WSEC FOR TABLE FOOTNOTES. | | | | |

TABLE C403.10.1.2 - SUPPLY, RETURN AND RELIEF AIR DUCTWORK INSULATION

| DUCT SYSTEM | DUCT LOCATION AND USE | CLIMATE ZONE | R-VALUE |
|---|---|---|---|
| SUPPLY AIR OR RETURN AIR | OUTSIDE THE BUILDING (OUTDOORS AND EXPOSED TO WEATHER) | 4C | R-8 |
| SUPPLY AIR OR RETURN AIR | OUTSIDE THE BUILDING (OUTDOORS AND EXPOSED TO WEATHER) | 5B | R-12 |
| SUPPLY AIR OR RETURN AIR | UNCONDITIONED SPACE (ENCLOSED BUT NOT IN THE BUILDING CONDITIONED ENVELOPE) | | |
| SUPPLY AIR OR RETURN AIR | UNCONDITIONED SPACE WHERE THE DUCT CONVEYS AIR THAT IS WITHIN 15°F OF THE AIR TEMPERATURE OF THE SURROUNDING UNCONDITIONED SPACE | 4C AND 5B | R-3.3 |
| SUPPLY AIR OR RETURN AIR | WHERE LOCATED IN A BUILDING ENVELOPE ASSEMBLY | | |
| SUPPLY AIR | WITHIN CONDITIONED SPACE WHERE THE SUPPLY DUCT CONVEYS AIR THAT IS LESS THAN 55°F OR GREATER THAN 105°F | | |
| SUPPLY AIR | WITHIN CONDITIONED SPACE THAT THE DUCT DIRECTLY SERVES WHERE THE SUPPLY DUCT CONVEYS AIR THAT IS LESS THAN 55°F OR GREATER THAN 105°F | | |
| SUPPLY AIR | WITHIN CONDITIONED SPACE WHERE THE SUPPLY DUCT CONVEYS AIR THAT IS 55°F OR GREATER AND 105°F OR LESS | 4C AND 5B | NONE |
| RETURN OR EXHAUST AIR | WITHIN CONDITIONED SPACE, DOWNSTREAM OF AN ENERGY RECOVERY MEDIA, UPSTREAM OF AN AUTOMATIC SHUTOFF DAMPER | 4C | R-8 |
| RETURN OR EXHAUST AIR | WITHIN CONDITIONED SPACE, DOWNSTREAM OF AN ENERGY RECOVERY MEDIA, UPSTREAM OF AN AUTOMATIC SHUTOFF DAMPER | 5B | R-12 |
| RETURN OR EXHAUST AIR | CONDITIONED SPACE AND DOWNSTREAM OF AN AUTOMATIC SHUTOFF DAMPER | | |

14 ALL DUCTWORK SHALL COMPLY WITH SMACNA STANDARDS FOR CONSTRUCTION OF GALVANIZED DUCTWORK. ALL DUCTWORK SHALL BE SEALED AS REQUIRED BY SECTION C403.10.2. DUCT TAPE NOT ALLOWED.

15 DUCTWORK STATIC PRESSURE CLASSES:

| PRESSURE CLASS | WATER COLUMN OF ASSOCIATED EQUIPMENT |
|---|---|
| "LOW PRESSURE" | UP TO 2 INCHES |
| "MEDIUM PRESSURE" | GREATER THAN 2 INCHES TO LESS THAN 3 INCHES |
| "HIGH PRESSURE" | 3 INCHES AND ABOVE |

16 PROVIDE BALANCING DEVICES IN ALL BRANCH DUCTS AND PIPE RUNS TO TERMINAL DEVICES AS REQUIRED BY SECTION C408.2.2.1 AND C408.2.2.2 AND AS INDICATED ON THE CONTRACT DOCUMENTS. PROVIDE ALL BALANCING DEVICES NEEDED TO ADJUST EQUIPMENT TO THE DESIGN FLOW VALUES INDICATED ON THE PLANS AND SCHEDULES.

17 PROVIDE ISOLATION VALVES FOR ALL EQUIPMENT CONNECTED TO FLUID PIPING.

18 HVAC SYSTEMS SHALL BE BALANCED AS REQUIRED BY SECTION C408.2.2. CONTRACTOR SHALL HIRE A BALANCE SPECIALIST AND PROVIDE RESOURCES TO SUPPORT THE REQUIRED BALANCING ACTIVITIES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

19 CONTRACTOR SHALL PROVIDE COMMISSIONING AND REPORT OF COMMISSIONING SHALL BE SUBMITTED TO THE OWNER AS REQUIRED BY SECTION C408. COMMISSIONING SHALL CONSIST OF A COMMISSIONING PLAN, BALANCING, FUNCTIONAL PERFORMANCE TESTING, POST CONSTRUCTION COMMISSIONING, TRAINING, REPORTS AND ACCEPTANCE. SUBMIT COMMISSIONING COMPLIANCE CHECKLIST TO BUILDING OFFICIAL UPON COMPLETION. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

20 PROVIDE CLASS I MOTORIZED SHUTOFF DAMPERS AT ALL LOCATIONS REQUIRED BY SECTION C403.7.8.1.

21 DAMPERS SHALL COMPLY WITH SECTION C403.7.8.3, INCLUDING DAMPERS INTEGRAL TO HVAC EQUIPMENT, AND SHALL HAVE A MAXIMUM LEAKAGE RATE WHEN TESTED IN ACCORDANCE WITH AMCA STANDARD 500D OF (AT 1.0 INCH W.G.):

- MOTORIZED DAMPERS: 4 CFM/FT2 OF DAMPER AREA.
- NON-MOTORIZED DAMPERS: 20 CFM/FT2 OF DAMPER AREA.
- NON-MOTORIZED DAMPERS SMALLER THAN 24 INCHES IN EITHER DIMENSION: 40 CFM/FT2 OF DAMPER AREA.

22 ALL DUCT SYSTEMS SHALL BE SEALED TO A LEAKAGE RATE NOT TO EXCEED 4 PERCENT OF THE FAN FLOW IF THE DUCT SYSTEM: IS CONNECTED TO A HIGH-PRESSURE OR MEDIUM-PRESSURE PIECE OF AIR MOVING EQUIPMENT; OR HAS ANY DUCT SURFACE AREA LOCATED IN ANY UNCONDITIONED SPACE. THE LEAKAGE RATE SHALL BE CONFIRMED THROUGH FIELD VERIFICATION AND DIAGNOSTIC TESTING, IN ACCORDANCE WITH SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL.

# APPLICABLE CODES

2021 WASHINGTON STATE BUILDING CODE
2021 WASHINGTON STATE MECHANICAL CODE

# MECHANICAL PROJECT NARRATIVE:

1ST FLOOR:
REMOVAL OF SIX SPLIT SYSTEM HEAT PUMPS (TOTALING 19 TONS OF COOLING) AND ASSOCIATED DUCTWORK AND CONTROLS. TO BE REPLACED WITH AN EQUAL CAPACITY VRF SYSTEM(S) THROUGHOUT THE FIRST FLOOR. HEAT RECOVERY VENTILATION PROVIDED VIA TWO NEW DOAS UNITS.

2ND FLOOR:
(ADDITIVE ALTERNATE) CUT BACK DUCT WORK ON A SINGLE SPLIT SYSTEM HEAT PUMP AND ADD A 1-TON VRF CASSETTE IN NEW MEETING ROOM. HEAT RECOVERY VENTILATION PROVIDED VIA ONE NEW DOAS UNIT.

# HVAC INDEX


| | |
|---|---|
| M001 | MECHANICAL LEGEND AND NOTES |
| M002 | MECHANICAL SCHEDULES |
| MD100 | GARAGE LEVEL HVAC DEMOLITION PLAN |
| MD101 | LEVEL 1 HVAC DEMOLITION PLAN |
| MD102 | LEVEL 2 HVAC DEMOLITION PLAN |
| M100 | GARAGE LEVEL HVAC PLAN |
| M101 | LEVEL 1 HVAC PLAN |
| M102 | LEVEL 2 HVAC PLAN |
| M201 | LEVEL 1 PIPING PLAN |
| M202 | LEVEL 2 PIPING PLAN |
| M300 | MECHANICAL ROOF PLAN |
| M301 | HVAC ISOMETRIC |
| M401 | MECHANICAL DETAILS |


| Rev | Date | Issue |
|---|---|---|

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1448 ELLIOTT AVE W. SEATTLE, WA 98119
(206) 378-0569 www.greenbusch.com

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720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #

**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com

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JURISDICTIONAL APPROVAL STAMP

DYLAN RICHARD TURNER
STATE OF WASHINGTON
53373
REGISTERED PROFESSIONAL ENGINEER
7-18-25

**BID SET**
Issue

**7/18/25**
Issue Date

**MECHANICAL LEGEND AND NOTES**
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**M001**

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## VRF INDOOR UNIT SCHEDULE

| MARK | AREA SERVED | DESIGN CONDITIONS | | | | | BASIS OF DESIGN | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NOMINAL COOLING (MBH) | NOMINAL HEATING CAPACITY (MBH) | NOMINAL TOTAL SUPPLY (CFM) | MIN. OUTSIDE AIR (CFM) | EXTERNAL STATIC (IN. W.G.) | MODEL NUMBER | VOLTS/ PHASE | ELECTRICAL MCA/MFS | WEIGHT (LBS) | REF LIQUID (IN. DIA. | REF GAS (IN. DIA.) | REMARKS |
| IDU-01 | 131 | 6,000 | 6,700 | 191 | 0 | NA | TPKFYP006LM140B | 208/230/1 | 0.24/0.24/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-02 | 133 | 6,000 | 6,700 | 191 | 0 | NA | TPKFYP006LM140B | 208/230/1 | 0.24/0.24/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-03 | 135 | 8,000 | 9,000 | 600 | 0 | NA | TPKFYP008LM140B | 208/230/1 | 0.24/0.24/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-04 | 137 | 8,000 | 9,000 | 600 | 0 | NA | TPKFYP008LM140B | 208/230/1 | 0.24/0.24/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-05 | 130 | 6,000 | 6,700 | 494 | 0 | NA | TPKFYP006LM140B | 208/230/1 | 0.24/0.24/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-06 | 132 | 6,000 | 6,700 | 494 | 0 | NA | TPKFYP006LM140B | 208/230/1 | 0.24/0.24/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-07 | 134 | 6,000 | 6,700 | 494 | 0 | NA | TPKFYP006LM140B | 208/230/1 | 0.24/0.24/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-08 | 136 | 6,000 | 6,700 | 494 | 0 | NA | TPKFYP006LM140B | 208/230/1 | 0.24/0.24/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-09 | 138 | 6,000 | 6,700 | 494 | 0 | NA | TPKFYP006LM140B | 208/230/1 | 0.24/0.24/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-10 | 139 | 8,000 | 9,000 | 600 | 0 | NA | TPKFYP008LM140B | 208/230/1 | 0.24/0.24/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-11 | 128 | 12,000 | 13,500 | 600 | 0 | NA | TPKFYP012LM140B | 208/230/1 | 0.24/0.24/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-12 | 143 | 8,000 | 9,000 | 600 | 0 | NA | TPLFYP008FM140B | 208/230/1 | 0.28/0.28/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-13 | 142 | 6,000 | 6,700 | 494 | 0 | NA | TPLFYP005FM140B | 208/230/1 | 0.24/0.24/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-14 | 140 | 6,000 | 6,700 | 494 | 0 | NA | TPKFYP006LM140B | 208/230/1 | 0.24/0.24/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-15 | 144 | 6,000 | 6,700 | 494 | 0 | NA | TPKFYP006LM140B | 208/230/1 | 0.24/0.24/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-16 | 110 | 12,000 | 13,500 | 600 | 0 | NA | TPLFYP012FM140B | 208/230/1 | 0.29/0.29/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-17 | 114 | 8,000 | 9,000 | 600 | 0 | NA | TPLFYP008FM140B | 208/230/1 | 0.28/0.28/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-18 | 115 | 8,000 | 9,000 | 600 | 0 | NA | TPLFYP008FM140B | 208/230/1 | 0.28/0.28/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-19 | 116 | 12,000 | 13,500 | 600 | 0 | NA | TPLFYP012FM140B | 208/230/1 | 0.29/0.29/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-20 | 108 | 8,000 | 9,000 | 600 | 0 | NA | TPKFYP008LM140B | 208/230/1 | 0.24/0.24/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-21 | 107 | 8,000 | 9,000 | 600 | 0 | NA | TPKFYP008LM140B | 208/230/1 | 0.24/0.24/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-22 | 106 | 6,000 | 6,700 | 494 | 0 | NA | TPLFYP005FM140B | 208/230/1 | 0.24/0.24/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-23 | 105 | 6,000 | 6,700 | 494 | 0 | NA | TPKFYP006LM140B | 208/230/1 | 0.24/0.24/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-24 | 103 | 8,000 | 9,000 | 600 | 0 | NA | TPLFYP008FM140B | 208/230/1 | 0.28/0.28/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-25 | 101 | 8,000 | 9,000 | 600 | 0 | NA | TPKFYP008LM140B | 208/230/1 | 0.24/0.24/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-26 | 120 | 6,000 | 6,700 | 494 | 0 | NA | TPKFYP006LM140B | 208/230/1 | 0.24/0.24/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-27 | 119 | 6,000 | 6,700 | 494 | 0 | NA | TPKFYP006LM140B | 208/230/1 | 0.24/0.24/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-28 | 118 | 8,000 | 9,000 | 600 | 0 | NA | TPKFYP008LM140B | 208/230/1 | 0.24/0.24/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-29 | 117 | 12,000 | 13,500 | 600 | 0 | NA | TPLFYP012FM140B | 208/230/1 | 0.29/0.29/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| IDU-30 | 202 | 12,000 | 13,500 | 600 | 0 | NA | TPLFYP012FM140B | 208/230/1 | 0.29/0.29/15 | 50.0 | 1/4 | 1/2 | 1,2,3 |
| | | | | | | | | | | | | | |
| SUM | | 232,000 | | | | | | | | | | | |

NOTES:
A . EXTERNAL STATIC PRESSURE ALLOWS FOR DUCTWORK AND FILTERS. UNIT MANUFACTURER TO ADD ALLOWANCE FOR WET COIL.
B . COIL CONDITIONS: COOLING 80/67 °F EAT DB/WB, 95°F OUTDOOR DB; HEATING: 70°F EAT DB, 43°F OUTDOOR WB

REMARKS:
1. MITSUBISHI R2-SERIES.
2. PROVIDE WITH ATTACHMENT AND MOUNTING ACCESSORIES COMPLETE.
3. PROVIDE WITH INTEGRAL FILTER.
4. CONSTANT VOLUME MIXING SECTION
5. CONSTANT VOLUME FAN COIL
6. REFER TO AIR CONDITIONING UNIT SCHEDULE.

## HEAT RECOVERY VENTILATOR SCHEDULE

| MARK | DESIGN CONDITIONS | | | | | BASIS OF DESIGN | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | AREA SERVED | TOTAL CFM | EFFICIENCY | MIN. OUTSIDE AIR CFM | EXTERNAL SP (IN.W.G.) | MODEL NUMBER | KW | VOLTS/ PHASE | CURRENT INPUT (AMPS) | WEIGHT (LBS.) | REMARKS |
| DOAS-1 | NORTH | 940 | 69.0% SENS | 895 | 1.0 | LGH-F940RVX2-E | 0.85 | 208/1 | 0.2 | 225.0 | 1,2,3,4 |
| DOAS-2 | SOUTH | 940 | 69.0% SENS | 895 | 1.0 | LGH-F940RVX2-E | 0.85 | 208/1 | 0.2 | 225.0 | 1,2,3,4 |
| DOAS-3 | ADD. ALT. CONF/KITCHEN | 300 | 65.5% SENS | 300 | 1.0 | LGH-F300RVX2-E | 0.235 | 208/1 | 0.1 | 75.0 | 1,2,3,4 |
| SUM | | 2,180.0 | | 1,790 | | | | | | | |

REMARKS:

1. AIR TO AIR HEAT RECOVERY VENTILATOR, LOSSNAY OR ACCEPTED EQUAL.
2. FILTER TYPE: MERV 13 FOR OUTSIDE AIR. MIN MERV 8 ON EXHUAST.
3. PROVIDE WITH BYPASS DAMPER CONTROL. ACTIVATED BETWEEN 55F AND 75F OAT AND MODULATES SUPPLY AIR BASED ON DDC ZONE-BASED COOLING SYSTEM STATUS (PER WSEC C406.2.2.6).
4. UNIT MUST MEET C406.2.2.6 PERFORMANCE REQUIREMENTS FOR FAN POWER.

## BRANCH CIRCUIT CONTROLLER SCHEDULE

| MARK | OUTDOOR UNIT | NUMBER OF PORTS | TYPE | BASIS OF DESIGN | | | | | | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MANUFACTURER | MODEL NUMBER | WEIGHT (LBS) | VOLTS/PHASE | MCA 208/230 (A) | MOCP (A) | |
| BC-1 | ODU-1 | 8 | MAIN | MITSUBISHI | TCMBM0108JA21N4 | 106 | 208/230/1 | 0.8/1.0 | 20 | 1,2 |
| SBC-1 | ODU-1 | 8 | SUB | MITSUBISHI | TCMBS0108KB21N4 | 69 | 208/230/1 | 0.7/0.9 | 20 | 1,2 |
| BC-2 | ODU-2 | 8 | MAIN | MITSUBISHI | TCMBM0108JA21N4 | 106 | 208/230/1 | 0.8/1.0 | 20 | 1,2 |
| SBC-2 | ODU-2 | 8 | SUB | MITSUBISHI | TCMBS0108KB21N4 | 69 | 208/230/1 | 0.7/0.9 | 20 | 1,2 |

NOTE:S:

1- INCLUDE VALVES ON ALL PIPE CONNECTIONS.
2- INCLUDE CONDENSATE PUMP.

## ELECTRIC UNIT HEATERS SCHEDULE

| EQUIP ID | LOCATION | FAN | | ELECTRIC HEAT | OPER WEIGHT MAX LBS | BASIS OF DESIGN | | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | FLOW: CFM | VOLTS/PHASE | CAP: WATTS | | MANUFACTURER | MODEL | |
| EUH-1 | STAIRS | 75 | 208 / 1 | 2000 | 9.5 | KING | PAW2022 | 1 |
| EUH-2 | FIRE | 75 | 208 / 1 | 2000 | 9.5 | KING | PAW2022 | 1 |

NOTES:
1. INTEGRAL THERMOSTAT.

## GRILLES, REGISTERS AND DIFFUSERS SCHEDULE

| MARK | CFM | NC LEVEL | STATIC PRESSURE | CEILING OR MOUNT TYPE | SIZE | | BASIS FOR DESIGN | NOTES |
|---|---|---|---|---|---|---|---|---|
| | | | | | FRAME/PANEL | CONNECTION | | |
| SG-1 | 25-40 | <10 | 0.072 | LAY-IN | 1-LF SLOT | | TITUS FL-10, 1" SLOT, 1X SLOT | 1,2,3 |
| SG-2 | 110-130 | 17 | 0.063 | LAY-IN | 2-LF SLOT | | TITUS FL-10, 1" SLOT, 2X SLOT | 1,2,3 |
| SG-3 | 55 | <10 | 0.032 | LAY-IN | 1-LF SLOT | | TITUS FL-10, 1.5" SLOT, 2X SLOT | 1,2,3 |
| SG-4 | 60-90 | <10 | 0.032 | LAY-IN | 2-LF SLOT | | TITUS FL-10, 1.5" SLOT, 2X SLOT | 1,2,3 |
| SG-5 | 250 | <17 | 0.029 | LAY-IN | 10 x 10 | | TITUS MCO | 1,2,3 |
| | | | | | | | | |
| EG-1 | 385 | <12 | 0.024 | DUCT | 24 X 6 | | TITUS 50F | 1,2,3 |
| EG-2 | 25-75 | <11 | 0.013 | DUCT | 12 X 6 | | TITUS 50F | 1,2,3 |
| EG-3 | 125 | <11 | 0.024 | DUCT | 12 X 6 | | TITUS 50F | 1,2,3 |
| EG-4 | 205 | <12 | 0.024 | DUCT | 12 X 6 | | TITUS 50F | 1,2,3 |
| EG-5 | 420 | <12 | 0.037 | DUCT | 24 X 6 | | TITUS 50F | 1,2,3 |
| EG-6 | 300 | <12 | 0.037 | DUCT | 10 x 10 | | TITUS 50F | 1,2,3 |
| | | | | | | | | |
| TG-1 | 25-200 | <19 | 0.062 | LAY-IN | 1-LF SLOT | | TITUS FL-20, 2" SLOT, 2X SLOT | 1,2,3 |
| TG-1 | 300 | <12 | 0.024 | DUCT | 12 X 6 | | TITUS 50F | 1,2,3 |
| | | | | | | | | |

NOTES:
1. DUCT CONNECTION TO DIFFUSER OR GRILLE SHALL BE MINIMUM NECK SIZE.
2. PROVIDE SMOOTH, GRADUAL SHEETMETAL FITTING TRANSITION FROM DUCT TO GRILLE, REGISTER OR DIFFUSER.
3. REFER TO ARCHITECTURAL PLANS (FLOOR, CEILING AND ELEVATIONS) TO DETERMINE FRAME TYPE AND LOCATION.
4. PROVIDE ADDITIONAL STRUCTURAL SUPPORT FOR OVERSIZE AIR TERMINAL AS REQUIRED.

## VENTILATION CALC

| ZONE NAME AND NUMBER | OCCUPANCY CATEGORY | ZONE FLOOR AREA | ARE YOU USING DEFAULT VALUE FOR ZONE POPULATION? | ZONE POPULATION | PEOPLE OUTDOOR AIR RATE | AREA OUTDOOR AIR RATE | BREATHING ZONE OUTDOOR AIRFLOW (PEOPLE RELATED PORTION) | BREATHING ZONE OUTDOOR AIRFLOW (AREA RELATED PORTION) | BREATHING ZONE OUTDOOR AIRFLOW | ZONE AIR DISTRIBUTION EFFECTIVENESS | ZONE OUTDOOR AIRFLOW | ZONE OUTDOOR AIRFLOW PROVIDED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AZ | | PZ | RP | RA | | | VBZ | EZ | VOZ | (MEASURED OR DESIGN) |
| | | (SQ FT) | | (PEOPLE) | (cfm per person) | (cfm per sq ft) | (CFM) | (CFM) | (CFM) | | (CFM) | (CFM) |
| | | | | | | | RP PZ | RA AZ | (RP PZ + RA AZ) | | VBZ / EZ | |
| | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | |
| OFFICE LAURI | OFFICE SPACE | 214 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 12.86 | 12.86 | 1.00 | 12.86 | 25 |
| STORAGE (LAURI) | STORAGE ROOMS | 57 | YES | 0.00 | 0.00 | 0.12 | 0.00 | 6.82 | 6.82 | 1.00 | 6.82 | 10 |
| OFFICE CHIEF | OFFICE SPACE | 281 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 16.87 | 16.87 | 1.00 | 16.87 | 30 |
| OFFICE ASST CHIEF | OFFICE SPACE | 214 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 12.85 | 12.85 | 1.00 | 12.85 | 25 |
| DEPUTY 1 | OFFICE SPACE | 214 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 12.85 | 12.85 | 1.00 | 12.85 | 25 |
| OFFICE JOE | OFFICE SPACE | 219 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 13.15 | 13.15 | 1.00 | 13.15 | 25 |
| DIST CHIEF 1 | OFFICE SPACE | 153 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 9.16 | 9.16 | 1.00 | 9.16 | 25 |
| DIST CHIEF 2 | OFFICE SPACE | 153 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 9.16 | 9.16 | 1.00 | 9.16 | 25 |
| DIST CHIEF 3 | OFFICE SPACE | 153 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 9.16 | 9.16 | 1.00 | 9.16 | 25 |
| DEPUTY 3 | OFFICE SPACE | 207 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 12.39 | 12.39 | 1.00 | 12.39 | 25 |
| DEPUTY 2 | OFFICE SPACE | 220 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 13.17 | 13.17 | 1.00 | 13.17 | 25 |
| ADMIN CONF | CONFERENCE / MEETING | 328 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 19.67 | 19.67 | 1.00 | 19.67 | 125 |
| SUPPLY/COFFEE | BREAKROOMS (OFFICE BUILDINGS) | 89 | YES | 0.00 | 5.00 | 0.12 | 0.00 | 10.69 | 10.69 | 1.00 | 10.69 | 40 |
| OFFICE MITCHEL | OFFICE SPACE | 216 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 12.96 | 12.96 | 1.00 | 12.96 | 25 |
| IT LAB | OFFICE SPACE | 189 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 11.36 | 11.36 | 1.00 | 11.36 | 50 |
| IT WS-6 | OFFICE SPACE | 369 | NO | 6.00 | 5.00 | 0.06 | 30.00 | 22.12 | 52.12 | 1.00 | 52.12 | 40 |
| STOR (MITCHEL) | STORAGE ROOMS | 69 | YES | 0.00 | 0.00 | 0.12 | 0.00 | 8.32 | 8.32 | 1.00 | 8.32 | 25 |
| STOR (MENS) | STORAGE ROOMS | 98 | YES | 0.00 | 0.00 | 0.12 | 0.00 | 11.70 | 11.70 | 1.00 | 11.70 | 25 |
| HOTEL WS-3 | OFFICE SPACE | 163 | NO | 3.00 | 5.00 | 0.06 | 15.00 | 9.79 | 24.79 | 1.00 | 24.79 | 25 |
| NORTH HALL | CORRIDORS | 762 | YES | 0.00 | 0.00 | 0.06 | 0.00 | 45.72 | 45.72 | 1.00 | 45.72 | 55 |
| CENTRAL HALL | CORRIDORS | 1,455 | YES | 0.00 | 0.00 | 0.06 | 0.00 | 87.30 | 87.30 | 1.00 | 87.30 | 95 |
| SOUTH HALL | CORRIDORS | 418 | YES | 0.00 | 0.00 | 0.06 | 0.00 | 25.08 | 25.08 | 1.00 | 25.08 | 40 |
| OFFICE ISSAC | OFFICE SPACE | 215 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 12.90 | 12.90 | 1.00 | 12.90 | 25 |
| LUNCH/BREAK | BREAKROOMS (OFFICE BUILDINGS) | 481 | YES | 0.00 | 5.00 | 0.12 | 0.00 | 57.72 | 57.72 | 1.00 | 57.72 | 75 |
| NURSE | OFFICE SPACE | 89 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 5.36 | 5.36 | 1.00 | 5.36 | 25 |
| QUIET | OFFICE SPACE | 89 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 5.36 | 5.36 | 1.00 | 5.36 | 25 |
| MEDIUM CONF | CONFERENCE / MEETING | 402 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 24.10 | 24.10 | 1.00 | 24.10 | 130 |
| SMALL CONF | CONFERENCE / MEETING | 320 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 19.17 | 19.17 | 1.00 | 19.17 | 110 |
| MAIL/SUPPLY/COFFEE | STORAGE ROOMS | 359 | YES | 0.00 | 0.00 | 0.12 | 0.00 | 43.05 | 43.05 | 1.00 | 43.05 | 55 |
| HR/FINANCE CONF RM | CONFERENCE / MEETING | 148 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 8.85 | 8.85 | 1.00 | 8.85 | 25 |
| FINANCE 2-WS | OFFICE SPACE | 159 | NO | 2.00 | 5.00 | 0.06 | 10.00 | 9.54 | 19.54 | 1.00 | 19.54 | 25 |
| LOBBY | MAIN ENTRY LOBBIES | 160 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 9.57 | 9.57 | 1.00 | 9.57 | 30 |
| COMM 3-WS | OFFICE SPACE | 324 | NO | 3.00 | 5.00 | 0.06 | 15.00 | 19.42 | 34.42 | 1.00 | 34.42 | 75 |
| FMO 9-WS | OFFICE SPACE | 874 | NO | 9.00 | 5.00 | 0.06 | 45.00 | 52.41 | 97.41 | 1.00 | 97.41 | 75 |
| HR 3-WS | OFFICE SPACE | 280 | NO | 3.00 | 5.00 | 0.06 | 15.00 | 16.80 | 31.80 | 1.00 | 31.80 | 25 |
| HR OFFICE | OFFICE SPACE | 222 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 13.33 | 13.33 | 1.00 | 13.33 | 25 |
| FINACNE OFFICE | OFFICE SPACE | 219 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 13.12 | 13.12 | 1.00 | 13.12 | 25 |
| FINANCE 4-WS | OFFICE SPACE | 276 | NO | 4.00 | 5.00 | 0.06 | 20.00 | 16.56 | 36.56 | 1.00 | 36.56 | 40 |
| RECEPTION | RECEPTION AREAS | 210 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 12.58 | 12.58 | 1.00 | 12.58 | 60 |
| FMO OFFICE 1 | OFFICE SPACE | 200 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 11.97 | 11.97 | 1.00 | 11.97 | 25 |
| FMO OFFICE 2 | OFFICE SPACE | 153 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 9.15 | 9.15 | 1.00 | 9.15 | 25 |
| FMO (SE CONF AREA) | CONFERENCE / MEETING | 200 | YES | 0.00 | 5.00 | 0.06 | 0.00 | 12.00 | 12.00 | 1.00 | 12.00 | 75 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | 1,785 |

## EXHAUST FAN SCHEDULE

| MARK | TYPE | LOCATION | AIRFLOW (CFM) | SP (IN W.G.) | WEIGHT (LBS) | SONES | ELECTRICAL | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | HP | VOLTS | PHASE | |
| EF-1 | EXHAUST AIR | MOF | 110 | 0.10 | - | 1.2 | - | 115/208-230 | 1 | BASIS OF DESIGN: PANASONIC WHISPERGREEN |

## ROOF VENTILATOR SCHEDULE

| MARK | CFM | PRESSURE DROP | THROAT DIMENSIONS | WEIGHT, LBS | REMARKS |
|---|---|---|---|---|---|
| RV-1 | 1880 | 0.022 | 28 x 28 | 91 | PROVIDE WITH BIRD SCREEN, MOTOR OPERATED DAMPER, AND SLOPED ROOF CURB. BASIS: GREENHECK WH |
| RV-2 | 1880 | 0.018 | 28 x 28 | 91 | PROVIDE WITH BIRD SCREEN, MOTOR OPERATED DAMPER, AND SLOPED ROOF CURB. BASIS: GREENHECK WRH |

## C406.2.2 HIGH PERFORMANCE DEDICATED OUTDOOR AIR SYSTEM

| | DOAS-1 | DOAS-2 | DOAS-3 |
|---|---|---|---|
| ALLOWANCE: | | | |
| SUPPLY BASE | 0.232 | 0.232 | 0.232 |
| 100% OA | 0.07 | 0.07 | 0.07 |
| SUP ERR > 80 | 0.289 | 0.289 | 0.289 |
| SUP MERV 13 | 0.139 | 0.139 | 0.139 |
| EXHAUST BASE | 0.186 | 0.186 | 0.186 |
| EXH FILTER | 0.046 | 0.046 | 0.046 |
| EXH ERR > 80 | 0.291 | 0.291 | 0.291 |
| | | | |
| TOTAL FPA COMP | 1.253 | 1.253 | 1.253 |
| Q COMP | 940 | 940 | 380 |
| Q SYS | 940 | 940 | 380 |
| FPA ADJ | 1.253 | 1.253 | 1.253 |
| | | | |
| FAN BUDGET | 1.178 | 1.178 | 0.476 |
| | | | |
| C406.2.2.6 REDUCTION | 0.8 | 0.8 | 0.8 |
| | | | |
| C406 FAN BUDGET | 0.94 | 0.94 | 0.38 |
| | | | |
| DESIGN FAN KW | 0.850 | 0.850 | 0.340 |
| | | | |
| DESIGN W/CFM | 0.904 | 0.904 | 0.895 |
| | | | |
| PASS/FAIL | PASS | PASS | FAIL |

DOAS-3 REPRESENTS ~6.5% OF THE FLOOR AREA. ~860 SF OF A TOTAL ~13,100.
93% OF THE PROJECT'S CONDITIONED AREA IS SERVED BY COMPLIANT DOAS UNITS.

## VRF OUTDOOR UNIT SCHEDULE

| MARK | REMARKS |
|---|---|
| ODU-1 | AIR COOLED OUTDOOR UNIT.<br>120 MBH NOMINAL COOLING CAPACITY, 95° DB ENTERING AIR, 80°/67°F DB/WB INDOOR.<br>135 MBH NOMINAL HEATING CAPACITY, 43° WB ENTERING AIR, 70 DEGREE DB INDOOR.<br>34 MCA, 208/230 VOLT, 3 PHASE, 60 HZ<br>INVERTER DRIVEN SCROLL COMPRESSOR, R410A REFRIGERANT, 21.95 IEER, 3.875 COP<br>715 POUNDS NET WEIGHT. MITSUBISHI/TRANE CITY MULTI TURYE1204AN41AN.<br>PROVIDE WITH JOINT KIT, LOW AMBIENT, SNOW/HAIL GUARDS AND BASE PANEL HEATER. |
| ODU-2 | AIR COOLED OUTDOOR UNIT.<br>120 MBH NOMINAL COOLING CAPACITY, 95° DB ENTERING AIR, 80°/67°F DB/WB INDOOR.<br>135 MBH NOMINAL HEATING CAPACITY, 43° WB ENTERING AIR, 70 DEGREE DB INDOOR.<br>34 MCA, 208/230 VOLT, 3 PHASE, 60 HZ<br>INVERTER DRIVEN SCROLL COMPRESSOR, R410A REFRIGERANT, 21.95 IEER, 3.875 COP<br>715 POUNDS NET WEIGHT. MITSUBISHI/TRANE CITY MULTI TURYE1204AN41AN.<br>PROVIDE WITH JOINT KIT, LOW AMBIENT, SNOW/HAIL GUARDS AND BASE PANEL HEATER. |

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THE GREENBUSCH GROUP, INC
ACOUSTICAL, AUDIO / VIDEO & MECHANICAL ENGINEERING
1448 ELLIOTT AVE W, SEATTLE, WA 98119
(206) 378-0569 www.greenbusch.com

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #

**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com

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**BID SET**
Issue

**7/18/25**
Issue Date

**MECHANICAL SCHEDULES**
Sheet Title

**M002**

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1 GARAGE LEVEL HVAC DEMOLITION PLAN
SCALE: 3/16" = 1'-0"

Rev Date Issue

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Issue Date

**GARAGE LEVEL HVAC DEMOLITION PLAN**
Sheet Title

**MD100**

DYLAN E. RICHARD — STATE OF WASHINGTON — 26973 — REGISTERED PROFESSIONAL ENGINEER

WEINSTEIN A+U
206.443.8606
WeinsteinAU.com

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1 LEVEL 1 HVAC DEMOLITION PLAN
SCALE: 3/16" = 1'-0"

## SHEET KEYNOTES:

1. REMOVE OUTDOOR CONDENSING UNITS #1, #2, #3, #4, #6 AND #7. SALVAGE OUTDOOR UNITS #5, #8, AND #9 FOR REINSTALLATION.
2. REMOVE INDOOR UNITS #1, #2, #3, #4, #6 AND #7. REMOVE ASSOCIATED DUCTWORK AND CONTROLS. CAP ANY OUTSIDE AIR DUCT CONNECTIONS AT THE ENVELOPE.

| Rev | Date | Issue |
|---|---|---|
| | | |


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1448 ELLIOTT AVE W. SEATTLE, WA 98119
(206) 378-0569 www.greenbusch.com


**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

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**24022**
Project #


**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com



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**7/18/25**
Issue Date

**LEVEL 1 HVAC DEMOLITION PLAN**
Sheet Title

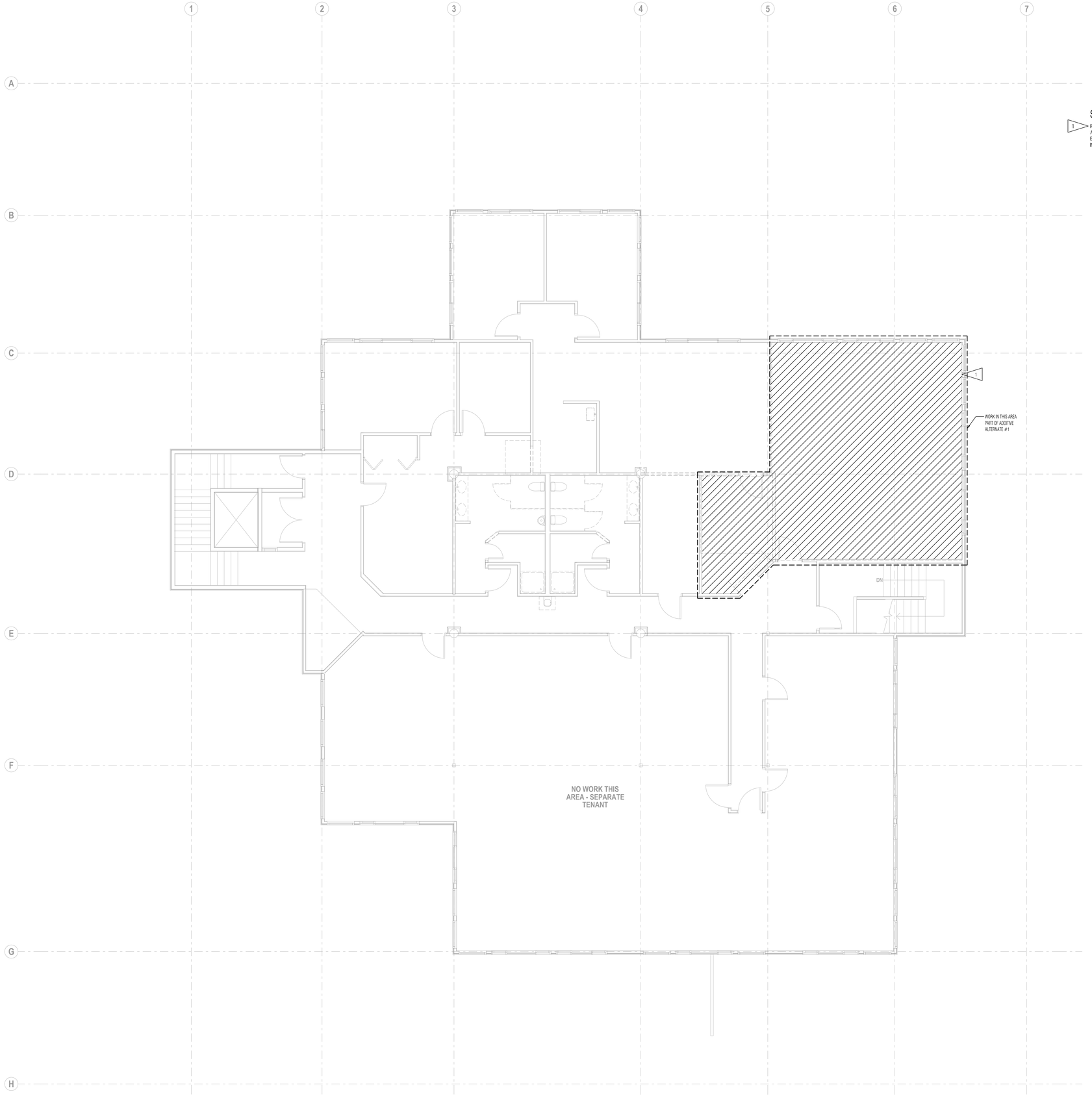
**MD101**


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206.443.8606 WeinsteinAU.com



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## SHEET KEYNOTES:

1 REMOVE DUCT FROM THIS SECTION. CAP AT EXTENTS SHOWN. ADD. ALT #1: REMOVE DUCTWORK IN THIS SECTION. CAP AT EXTENTS OF ALTERATION. LEAVE CEILING SUITABLE FOR INSTALLATION OF NEW CASSETTE AND HRV.

1 LEVEL 2 HVAC DEMOLITION PLAN
SCALE: 3/16" = 1'-0"

| Rev | Date | Issue |
|---|---|---|
| | | |

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(206) 378-0569 www.greenbusch.com

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #

**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com

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**LEVEL 2 HVAC DEMOLITION PLAN**
Sheet Title

**MD102**

DYLAN E. RICHARD JUDD
STATE OF WASHINGTON
26973
REGISTERED PROFESSIONAL ENGINEER

206.443.8606
WeinsteinAU.com
WEINSTEIN A+U




1 GARAGE LEVEL HVAC PLAN
SCALE: 3/16" = 1'-0"

## SHEET NOTES:

1. DUCTWORK IS DIAGRAMMATIC. PROVIDE FITTINGS AND OFFSETS AS REQUIRED TO AVOID WORK OF OTHER TRADES AND AS REQUIRED FOR A CODE COMPLIANT INSTALLATION.

| Rev | Date | Issue |
|---|---|---|
| | | |


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1445 ELLIOTT AVE W. SEATTLE, WA 98119
(206) 378-0569 www.greenbusch.com


**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #


**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
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www.weinsteinau.com



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Issue Date

**GARAGE LEVEL HVAC PLAN**
Sheet Title

**M100**

DYLAN E. RICHARD
STATE OF WASHINGTON
26973
REGISTERED
PROFESSIONAL ENGINEER

WEINSTEIN A+U
206.443.8606
WeinsteinAU.com


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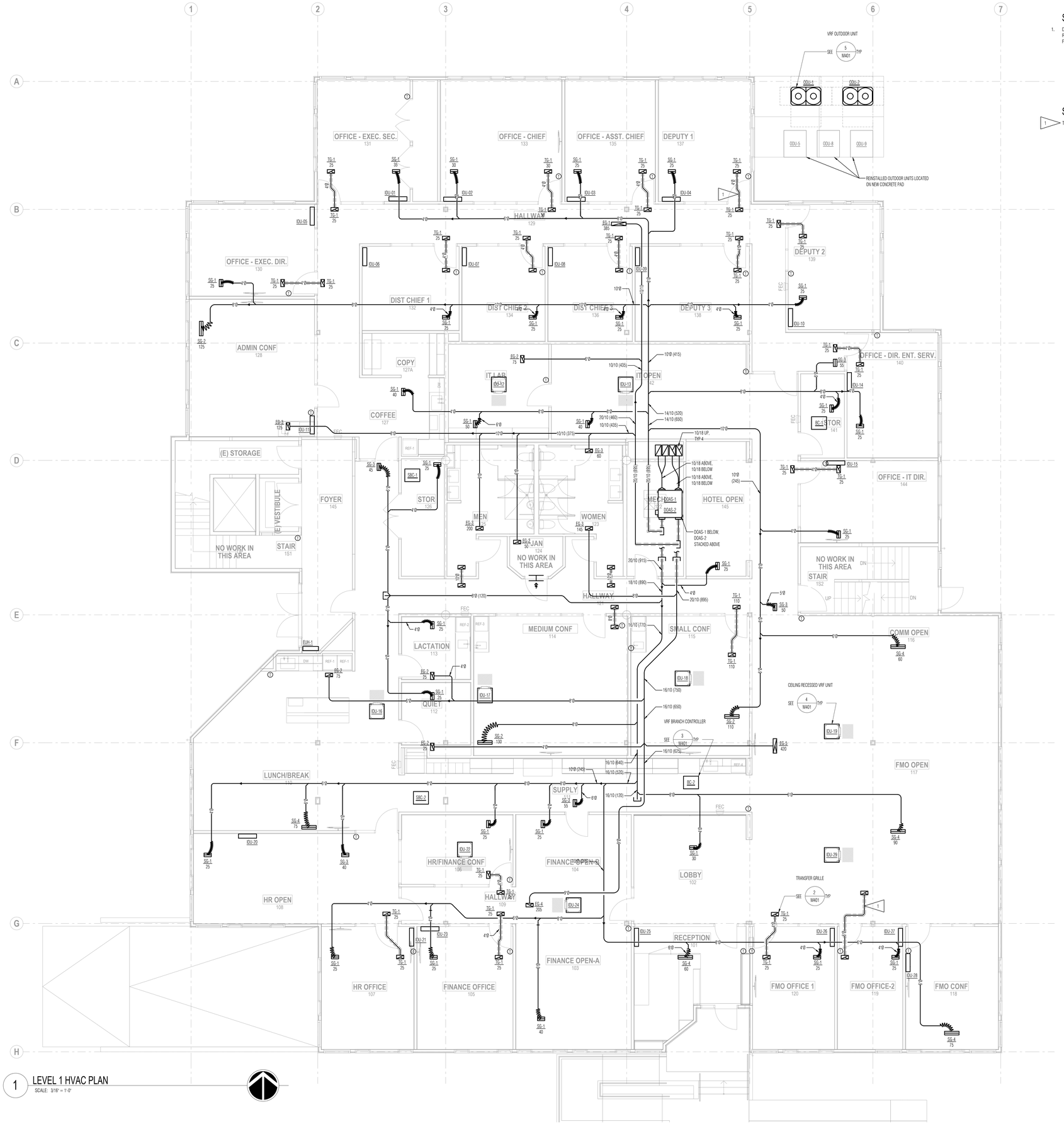
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## SHEET NOTES:

1. DUCTWORK IS DIAGRAMMATIC. PROVIDE FITTINGS AND OFFSETS AS REQUIRED TO AVOID WORK OF OTHER TRADES AND AS REQUIRED FOR A CODE COMPLIANT INSTALLATION.

## SHEET KEYNOTES:

1 TRANSFER GRILLE, PAIR OF TG-1s PER DETAIL 2/M301.




1 LEVEL 1 HVAC PLAN
SCALE: 3/16" = 1'-0"

| Rev | Date | Issue |
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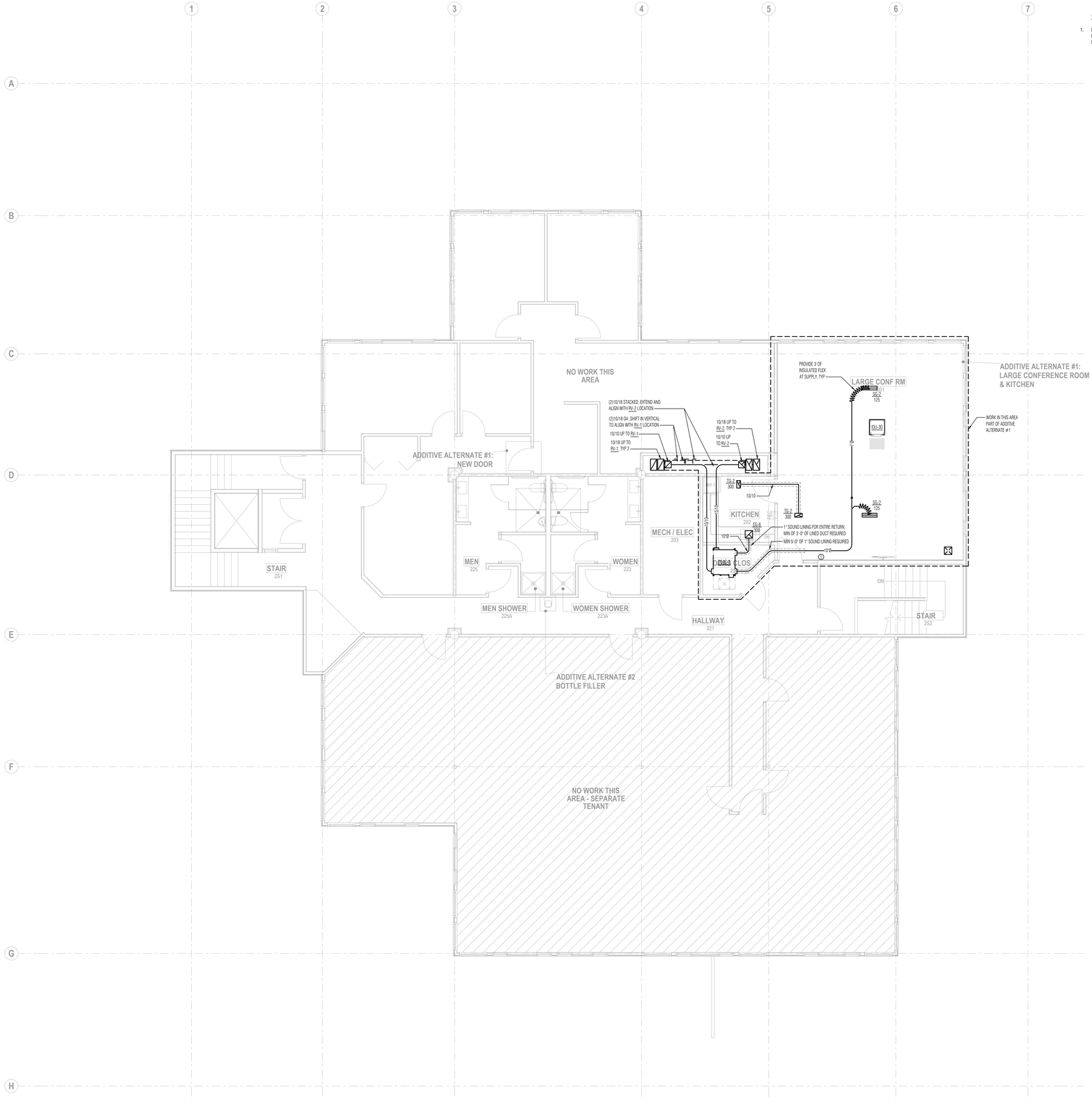
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Issue

**7/18/25**
Issue Date

**LEVEL 1 HVAC PLAN**
Sheet Title

**M101**

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1 LEVEL 2 HVAC PLAN
SCALE: 3/16" = 1'-0"

## SHEET NOTES:

1. DUCTWORK IS DIAGRAMMATIC. PROVIDE FITTINGS AND OFFSETS AS REQUIRED TO AVOID WORK OF OTHER TRADES AND AS REQUIRED FOR A CODE COMPLIANT INSTALLATION.

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Federal Way, WA 98003

**24022**
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**LEVEL 2 HVAC PLAN**

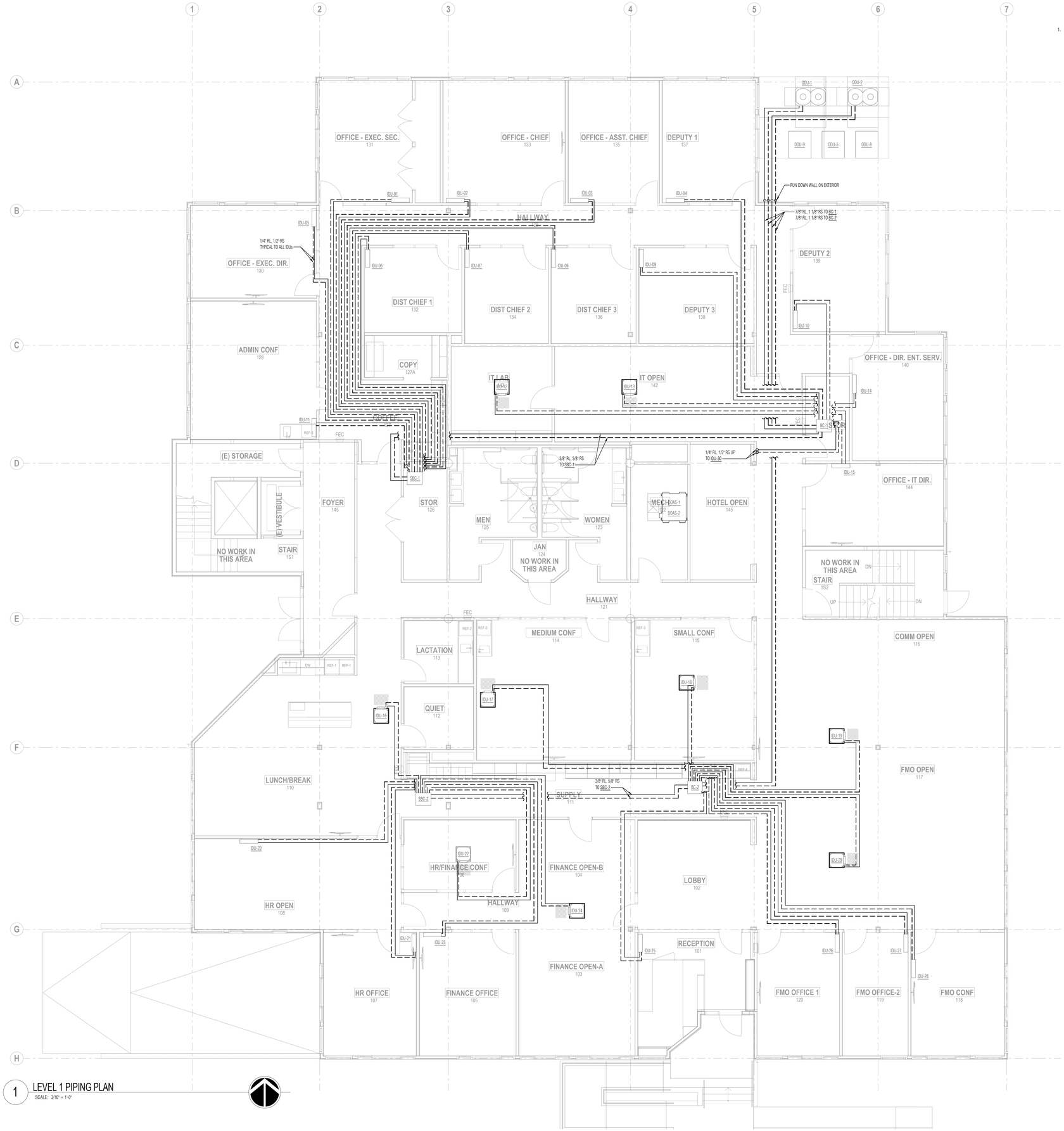
Sheet Title

**M102**

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1 LEVEL 1 PIPING PLAN
SCALE: 3/16" = 1'-0"

## SHEET NOTES:

1. PIPING IS DIAGRAMMATIC. PROVIDE FITTINGS AND OFFSETS AS REQUIRED TO AVOID WORK OF OTHER TRADES AND AS REQUIRED FOR A CODE COMPLIANT INSTALLATION.

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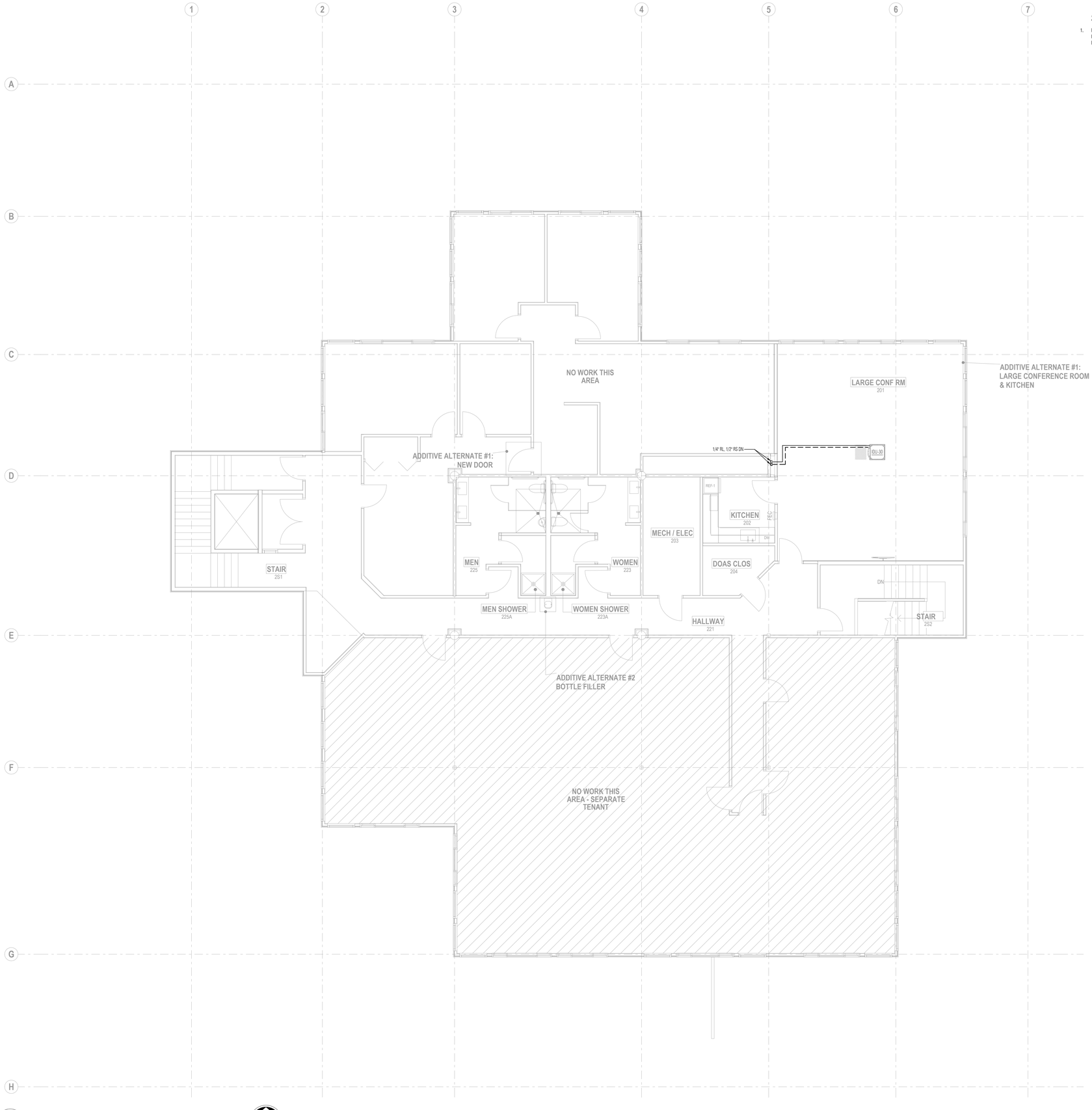
**LEVEL 1 PIPING PLAN**

Sheet Title

**M201**

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Template version: WAU-AC27-MAIN




1 LEVEL 2 PIPING PLAN
SCALE: 3/16" = 1'-0"

## SHEET NOTES:

1. PIPING IS DIAGRAMMATIC. PROVIDE FITTINGS AND OFFSETS AS REQUIRED TO AVOID WORK OF OTHER TRADES AND AS REQUIRED FOR A CODE COMPLIANT INSTALLATION.

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**LEVEL 2 PIPING PLAN**

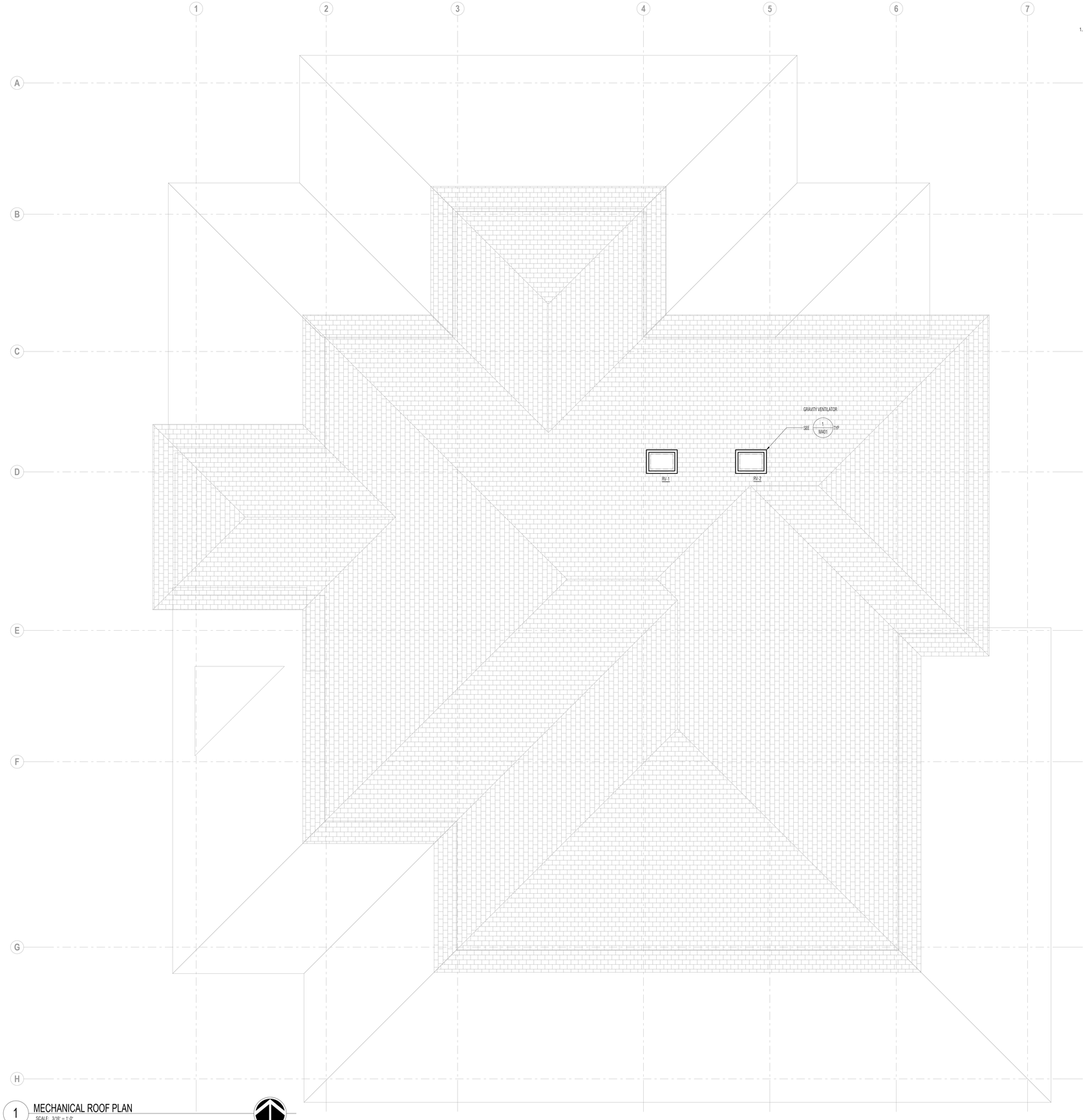
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## SHEET NOTES:

1. DUCTWORK AND PIPING ARE DIAGRAMMATIC. PROVIDE FITTINGS AND OFFSETS AS REQUIRED TO AVOID WORK OF OTHER TRADES AND AS REQUIRED FOR A CODE COMPLIANT INSTALLATION.

1 MECHANICAL ROOF PLAN
SCALE: 3/16" = 1'-0"

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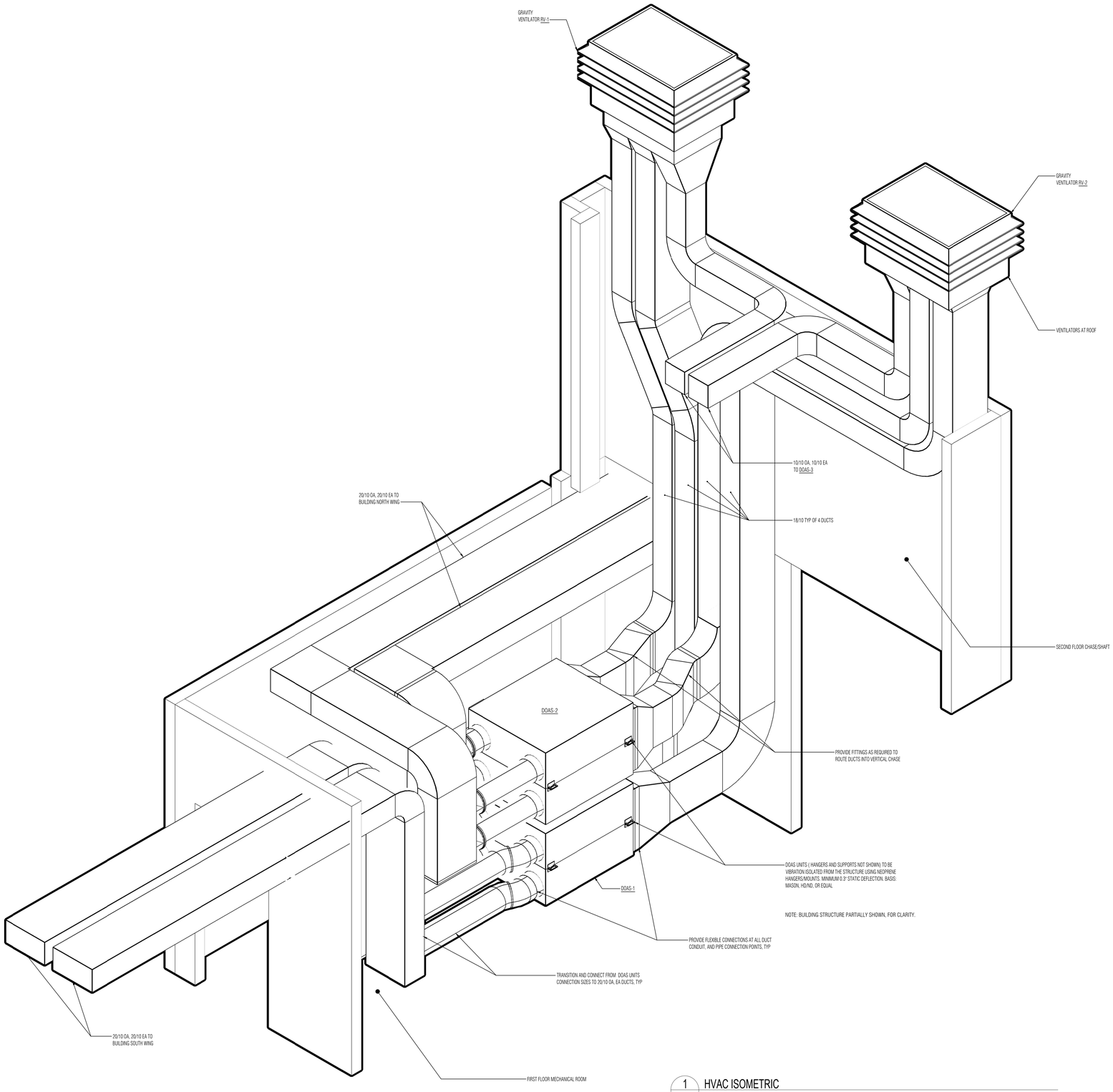
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**MECHANICAL ROOF PLAN**
Sheet Title

**M300**

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1 M401 HVAC ISOMETRIC
SCALE: NTS

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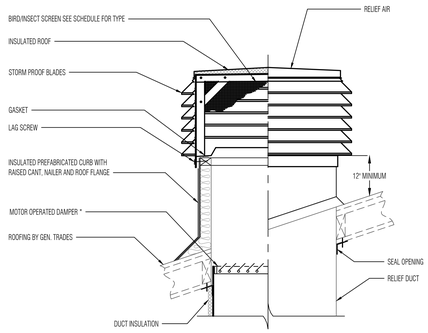
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**HVAC ISOMETRIC**

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**M301**

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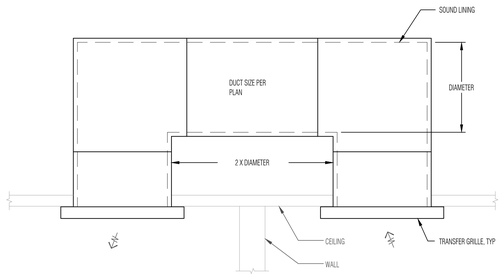



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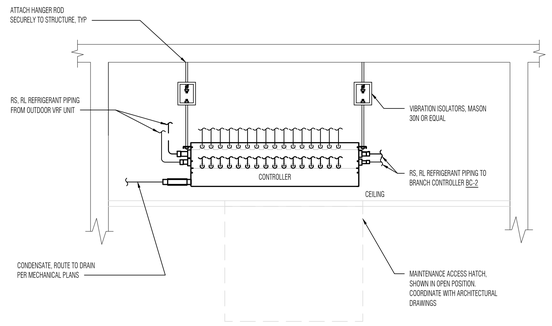
NOTE:

DETAIL SHOWN IS FOR SINGLE DUCT CONNECTION. PROVIDE EACH DUCT WITH A BACKDRAFT DAMPER, ON THE 'INTERIOR' SIDE OF THE MOD. IF MULTIPLE PRESSURIZED DUCTS INTERACT WITH ONE VENTILATOR.

## 1 GRAVITY VENTILATOR
M401 SCALE: NTS



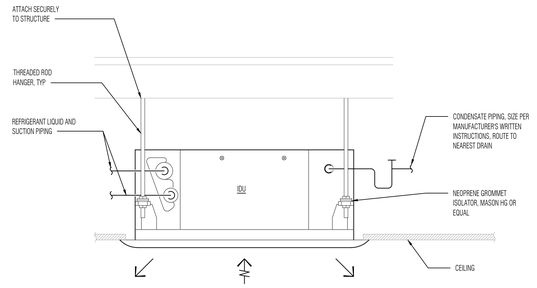

## 2 TRANSFER GRILLE
M401 SCALE: NTS



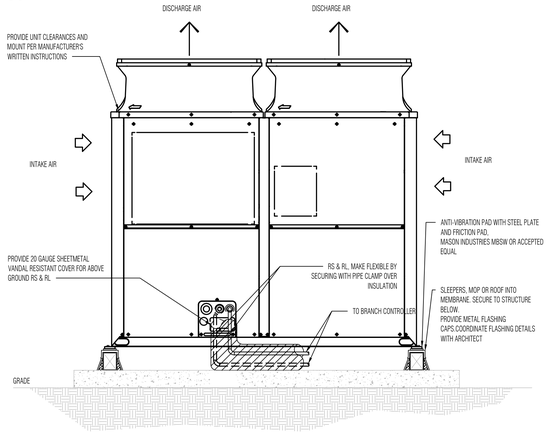

NOTES:

1. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

## 3 VRF BRANCH CONTROLLER
M401 SCALE: NTS




## 4 CEILING RECESSED VRF UNIT
M401 SCALE: NTS




## 5 VRF OUTDOOR UNIT
M401 SCALE: NTS

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**MECHANICAL DETAILS**

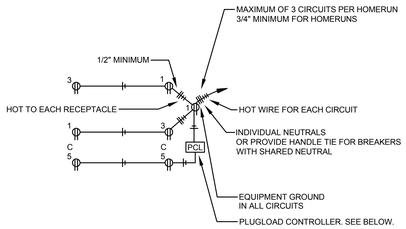
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**M401**

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26973
REGISTERED PROFESSIONAL ENGINEER

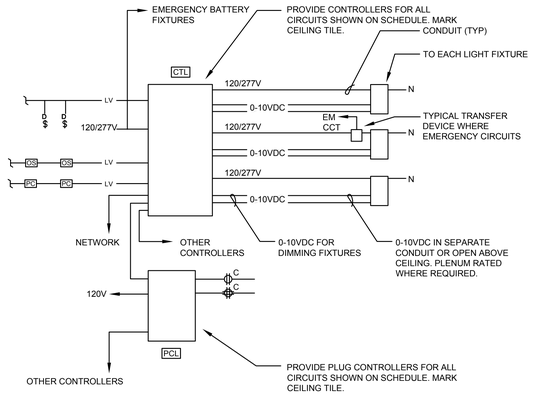
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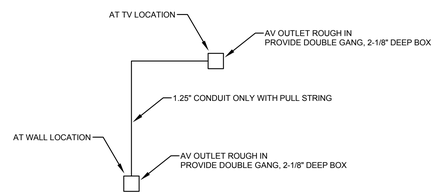

## TYPICAL RECEPTACLE CIRCUITING DETAIL

SCALE: NONE




## TYPICAL LIGHTING CONTROL DETAIL

SCALE: NONE




1 / E100 AV DETAIL

SCALE: NTS

## LEGEND

- CONDUIT CONCEALED IN CEILING OR WALLS
- CONDUIT CONCEALED UNDERGROUND, UNDER FLOOR, OR IN WALL
- 3/4" CONDUIT, NUMBER OF MARKS SHOWS NUMBER OF #12 WIRES. NO MARKS=2#12
- HOME RUN WITH DESTINATION INDICATED, MINIMUM 3/4"
- SURFACE OR PENDANT MOUNTED FIXTURE
- RECESSED LIGHT FIXTURE
- SURFACE OR PENDANT LIGHT FIXTURE
- WALL MOUNTED FIXTURE
- VANITY LIGHT, WALL MOUNTED
- UNDERCABINET LIGHT WITH INTEGRAL SWITCH
- EXIT SIGN LIGHT FIXTURE TYPE X, EXCEPT AS NOTED
- FIXTURE WITH INTEGRAL EMERGENCY BATTERY
- $ WALL SWITCH, 1-POLE
- $OS WALL SWITCH WITH INTEGRAL OCCUPANCY SENSOR
- $D DIGITAL WALL SWITCH
- $DO DIMMER WALL SWITCH WITH INTEGRAL OCCUPANCY SENSOR
- OS OCCUPANCY SENSOR
- PC PHOTOCELL
- RP RELAY PACK
- XXX XXXX LIGHTING FIXTURE TYPE DESIGNATOR, SEE LIGHT FIXTURE SCHEDULE
- CTL LIGHTING ROOM CONTROLLER
- PCL PLUG LOAD CONTROLLER
- DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE ABOVE COUNTER
- C CONTROLLED DUPLEX RECEPTACLE
- C CONTROLLED DUPLEX RECEPTACLE ABOVE COUNTER
- DOUBLE DUPLEX RECEPTACLE
- C CONTROLLED DOUBLE DUPLEX RECEPTACLE
- GFI GROUND FAULT INTERRUPTER RECEPTACLE
- WP WEATHERPROOF DUPLEX RECEPTACLE (GFI TYPE)
- SPLIT-WIRED RECEPTACLE
- FLUSH FLOOR DUPLEX RECEPTACLE
- D DRYER OUTLET, NEMA 14-30R, SINGLE PHASE
- H HOOD OUTLET
- R RANGE OUTLET, NEMA 14-50R, 208V, SINGLE PHASE
- T THERMOSTAT
- EQUIPMENT CONNECTION
- MOTOR CONNECTION
- DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- POKE THROUGH WITH DEVICES AS SHOWN
- FSD FIRE SMOKE DAMPER CONNECTION, TO CLOSE ONLY ON LOCAL SMOKE DETECTION
- FA FIRE ALARM CONNECTION
- S SMOKE DETECTOR
- FA HORN/STROBE
- FA SPEAKER, WEATHER PROOF
- FA STROBE
- D DOOR HOLD, RELEASE ON BUILDING FA SIGNAL OR LOCAL SMOKE DETECTION; SEE PLANS
- F FIRE ALARM PULL STATION
- FLOW OR TAMPER SWITCH
- FS SPRINKLER FLOW SWITCH CONNECTION
- TS SPRINKLER TAMPER SWITCH CONNECTION
- AV AV OUTLET. ROUGH IN ONLY. SEE AV DETAIL
- SINGLE PORT DATA OUTLET
- TWO PORT DATA OUTLET
- WAP SINGLE PORT DATA OUTLET FOR WIRELESS ACCESS POINT
- TV OUTLET
- CCTV CAMERA
- CR CARD READER
- LR LONG RANGE CARD READER
- EL ELECTRIC LOCK
- DS DOOR SWITCH
- REX REQUEST TO EXIT DEVICE
- K KEYPAD FOR SECURITY SYSTEM (MOTION DETECTION)
- MS MOTION SENSOR
- 208 VOLT PANEL
- 480 VOLT PANEL
- WP WEATHERPROOF
- GFI GROUND FAULT CIRCUIT INTERRUPTER
- A / B DETAIL INDICATOR WITH SHEET WHERE DRAWN INDICATED
- 1 FLAG NOTE
- EXIST DEVICE/FIXTURE AS INDICATED
- EXIST DEVICE/FIXTURE AS INDICATED TO BE REMOVED

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Travis Fitzmaurice Wantelle Balangue Engineers Inc.
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Seattle, WA 98103
p: 206-285-7228 | info@tfwb.com


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720 S 333rd Street
Federal Way, WA 98003

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**LEGEND**

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**E100**

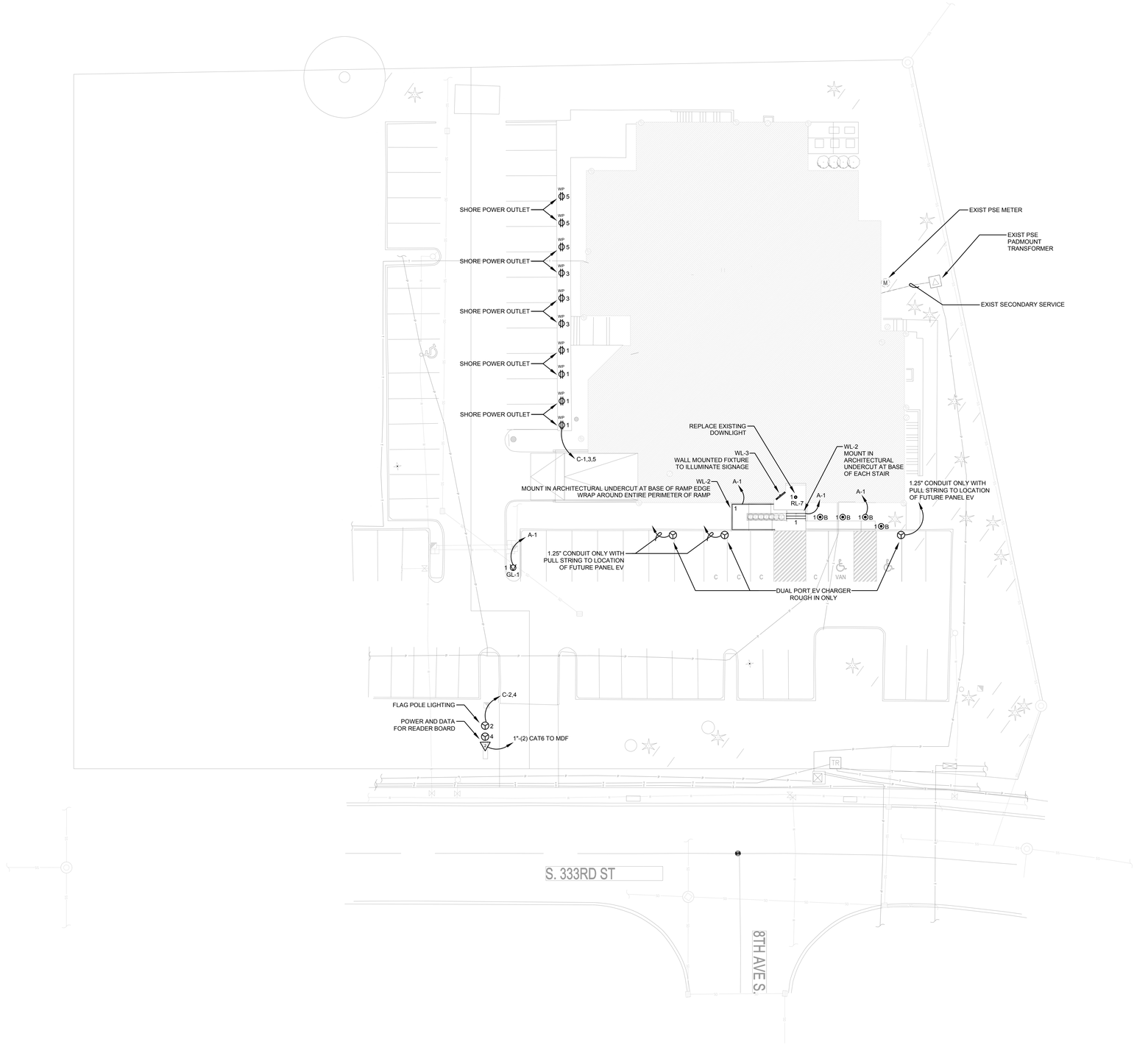
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## SHEET NOTES:

1. SAWCUT, CUT, EXCAVATE, BACKFILL AND PATCH EXISTING CONCRETE, ASPHALT, EARTH, AND LANDSCAPING AS REQUIRED TO INSTALL UNDERGROUND CONDUITS TO DEVICES SHOWN.
2. CORE AND SLEEVE EXTERIOR WALL OF BUILDING AS REQUIRED TO ROUTE CONDUITS INTO BUILDING FROM EXTERIOR DEVICES.
3. ROUTE CIRCUITRY FOR TYPE WL-2 FIXTURES VIA REMOTE POWER SUPPLY IN GARAGE.




1 E101 **SITE PLAN - ELECTRICAL**
SCALE: 3/32" = 1'-0"

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Travis Fitzmaurice Wartelle Ballangue Engineers Inc.
1420 Westlake Ave. N., #220
Seattle, WA 98109
p: 206.285.7228 | info@t-w6.com


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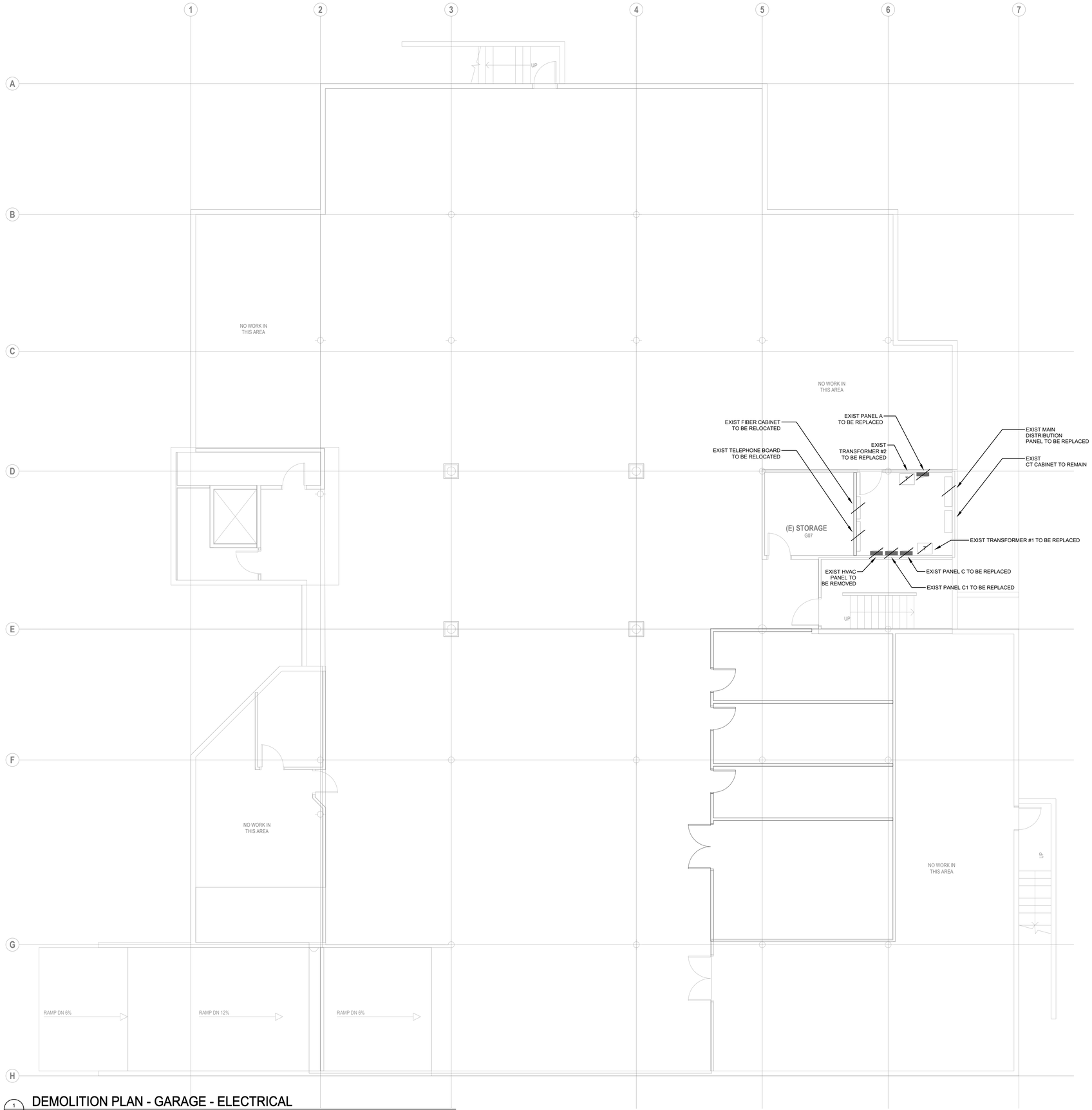
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**SITE PLAN - ELECTRICAL**
Sheet Title

**E101**

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1 E2B1 DEMOLITION PLAN - GARAGE - ELECTRICAL
SCALE: 3/16" = 1'-0"

## DEMOLITION NOTES:

1. EXISTING DEVICES SHOWN FOR REFERENCE. FIELD VERIFY EXISTING CONDITIONS.
2. REMOVE EXISTING DEVICES AS INDICATED. REMOVE ASSOCIATED CIRCUITRY AND CABLING.
3. REMOVE EXISTING DEVICES, WHETHER INDICATED OR NOT, FROM EXISTING WALLS AND CEILINGS TO BE DEMO'D. REMOVE ASSOCIATED CIRCUITRY AND CABLING. REFER TO ARCHITECTURAL DEMO PLANS FOR WALLS AND CEILINGS TO BE DEMOLISHED.
4. MAINTAIN CONTINUITY OF EXISTING CIRCUITS TO DEVICES TO REMAIN.

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**DEMOLITION PLAN - GARAGE - ELECTRICAL**
Sheet Title

**ED2B1**


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1 ED201 DEMOLITION PLAN - LEVEL 1 - ELECTRICAL
SCALE: 3/16" = 1'-0"

## DEMOLITION NOTES:

1. EXISTING DEVICES SHOWN FOR REFERENCE. FIELD VERIFY EXISTING CONDITIONS.
2. REMOVE EXISTING DEVICES AS INDICATED. REMOVE ASSOCIATED CIRCUITRY AND CABLING.
3. REMOVE EXISTING DEVICES, WHETHER INDICATED OR NOT, FROM EXISTING WALLS AND CEILINGS TO BE DEMO'D. REMOVE ASSOCIATED CIRCUITRY AND CABLING. REFER TO ARCHITECTURAL DEMO PLANS FOR WALLS AND CEILINGS TO BE DEMOLISHED.
4. MAINTAIN CONTINUITY OF EXISTING CIRCUITS TO DEVICES TO REMAIN.

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Travis Fitzmaurice Wantelle Balangue Engineers Inc.
7450 Westlake Ave. N., #520
Seattle, WA 98103
p: 206-285-7228 | info@tfwb.com


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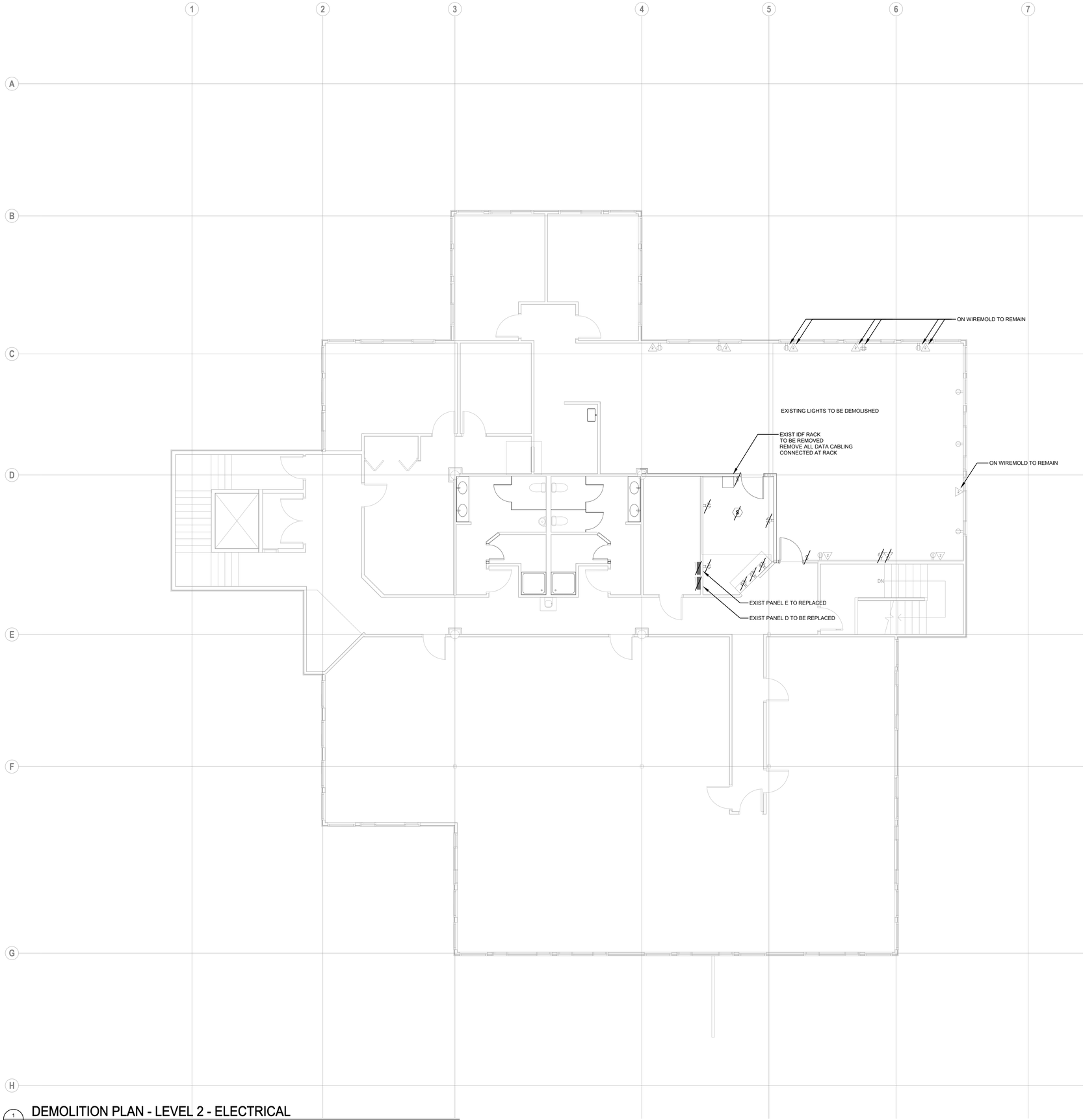
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Issue Date

**DEMOLITION FLOOR PLAN - LEVEL 1 - ELECTRICAL**
Sheet Title

**ED201**

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1 ED202 DEMOLITION PLAN - LEVEL 2 - ELECTRICAL
SCALE: 3/16" = 1'-0"

## DEMOLITION NOTES:

1. EXISTING DEVICES SHOWN FOR REFERENCE. FIELD VERIFY EXISTING CONDITIONS.
2. REMOVE EXISTING DEVICES AS INDICATED. REMOVE ASSOCIATED CIRCUITRY AND CABLING.
3. REMOVE EXISTING DEVICES, WHETHER INDICATED OR NOT, FROM EXISTING WALLS AND CEILINGS TO BE DEMO'D. REMOVE ASSOCIATED CIRCUITRY AND CABLING. REFER TO ARCHITECTURAL DEMO PLANS FOR WALLS AND CEILINGS TO BE DEMOLISHED.
4. MAINTAIN CONTINUITY OF EXISTING CIRCUITS TO DEVICES TO REMAIN.

## SHEET NOTES:

1. LEVEL 2 WORK SHALL BE AN ADDITIVE ALTERNATE.

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TFWB ENGINEERS
Travis Fitzmaurice Wantelle Balangue Engineers Inc.
7350 Windlake Ave. N., #509
Seattle, WA 98103
p: 206-285-7228 | info@tfwb.com


**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
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**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
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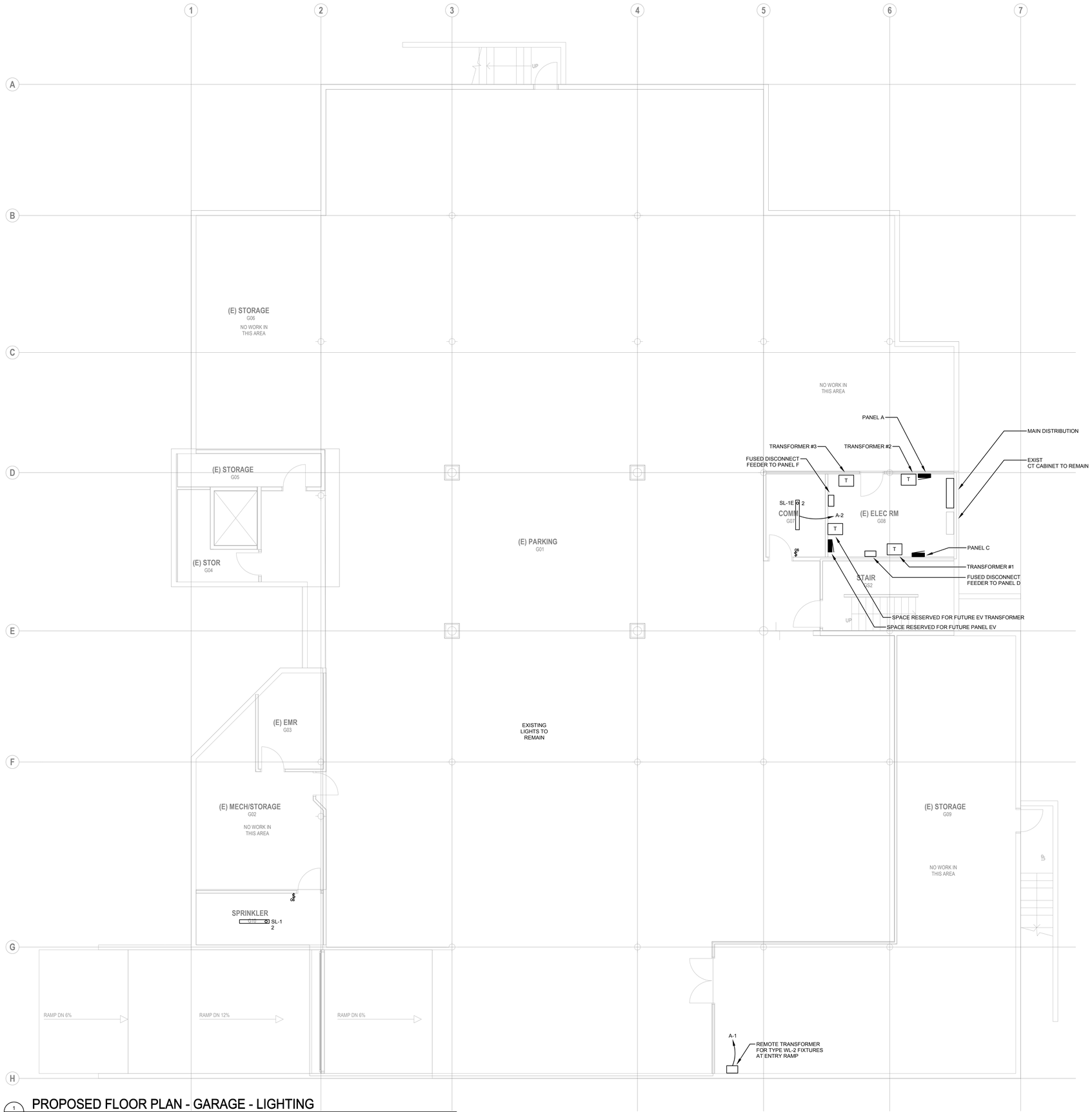
**DEMOLITION PLAN - LEVEL 2 - ELECTRICAL**
Sheet Title

**ED202**


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1 E2B1 **PROPOSED FLOOR PLAN - GARAGE - LIGHTING**

SCALE: 3/16" = 1'-0"

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Travis Fitzmaurice Wartelle Balangue Engineers Inc.
1000 Westlake Ave. N., #309
Seattle, WA 98109
p: 206.285.7228 | info@tfwb.com


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2200 Western Avenue, Suite 301
Seattle, WA 98121
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**PROPOSED FLOOR PLAN - GARAGE - LIGHTING**
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**E2B1**


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## SHEET NOTES:

1. COORDINATE EXACT FIXTURE LOCATIONS, ALIGNMENTS, AND ELEVATIONS WITH ARCHITECTURAL RCP.




1 / E201 PROPOSED FLOOR PLAN - LEVEL 1 - LIGHTING

SCALE: 3/16" = 1'-0"

| Rev | Date | Issue |
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5500 Wardlake Ave. N., #105
Seattle, WA 98105
p: 206-285-7228 | info@tfwb.com


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720 S 333rd Street
Federal Way, WA 98003

**24022**
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**Weinstein A+U**
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Seattle, WA 98121
206.443.8606
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**PROPOSED FLOOR PLAN - LEVEL 1 - LIGHTING**
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**E201**


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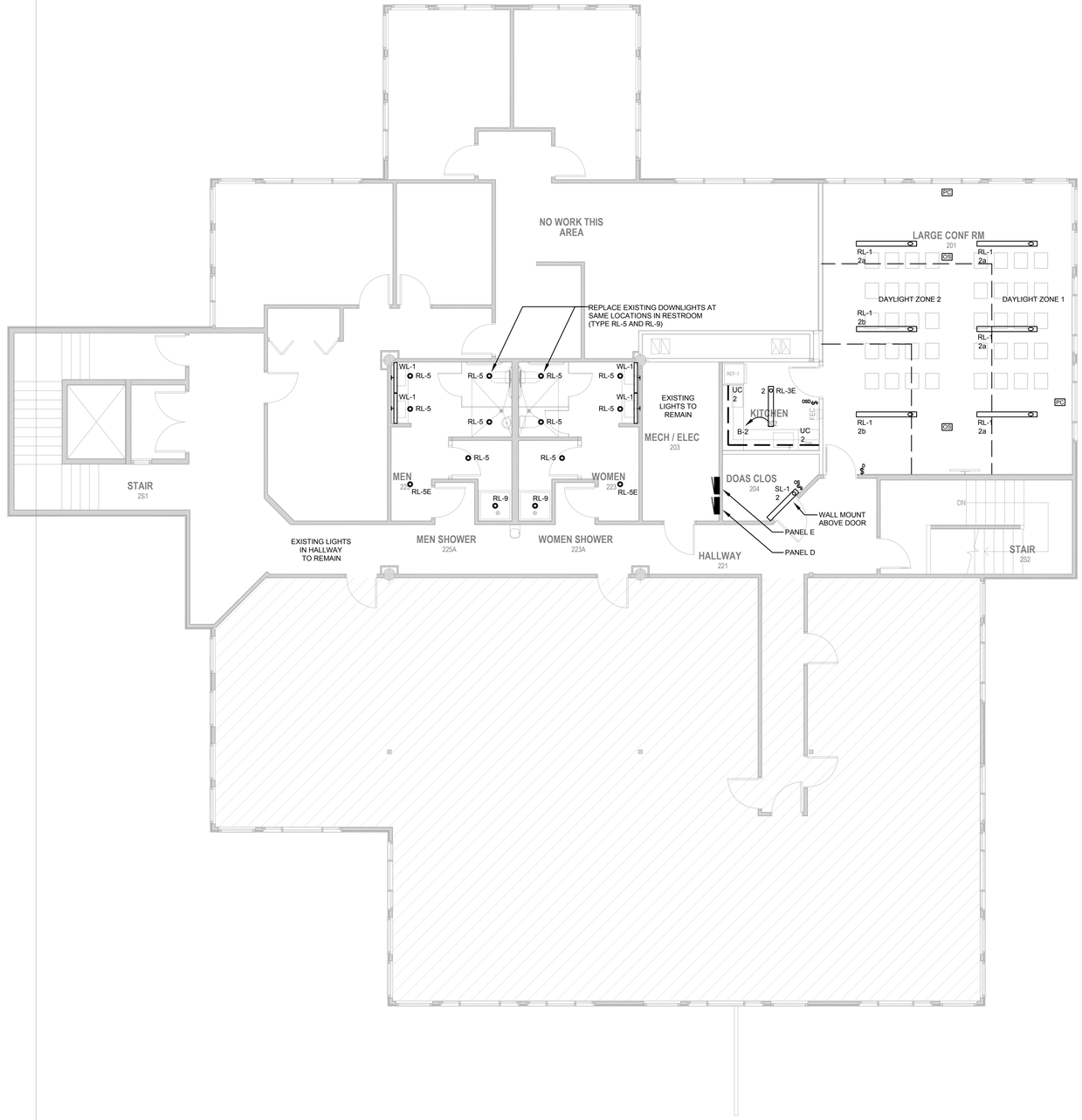
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1 E202 PROPOSED FLOOR PLAN - LEVEL 2 - LIGHTING

SCALE: 3/16" = 1'-0"

## SHEET NOTES:

1. COORDINATE EXACT FIXTURE LOCATIONS, ALIGNMENTS, AND ELEVATIONS WITH ARCHITECTURAL RCP.
2. LEVEL 2 WORK IN LARGE CONF RM 201, KITCHEN 202 AND DOAS CLOS 204 SHALL BE PROVIDED UNDER ADDITIVE ALTERNATE 1.
6. EXISTING LIGHTING TO REMAIN IN ALL AREAS EXCEPT LARGE CONF RM 201 AND KITCHEN 202.

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1100 Westlake Ave. N., #320
Seattle, WA 98109
p: 206-285-7228 | info@tfwb.com

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**Weinstein A+U**
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Seattle, WA 98121
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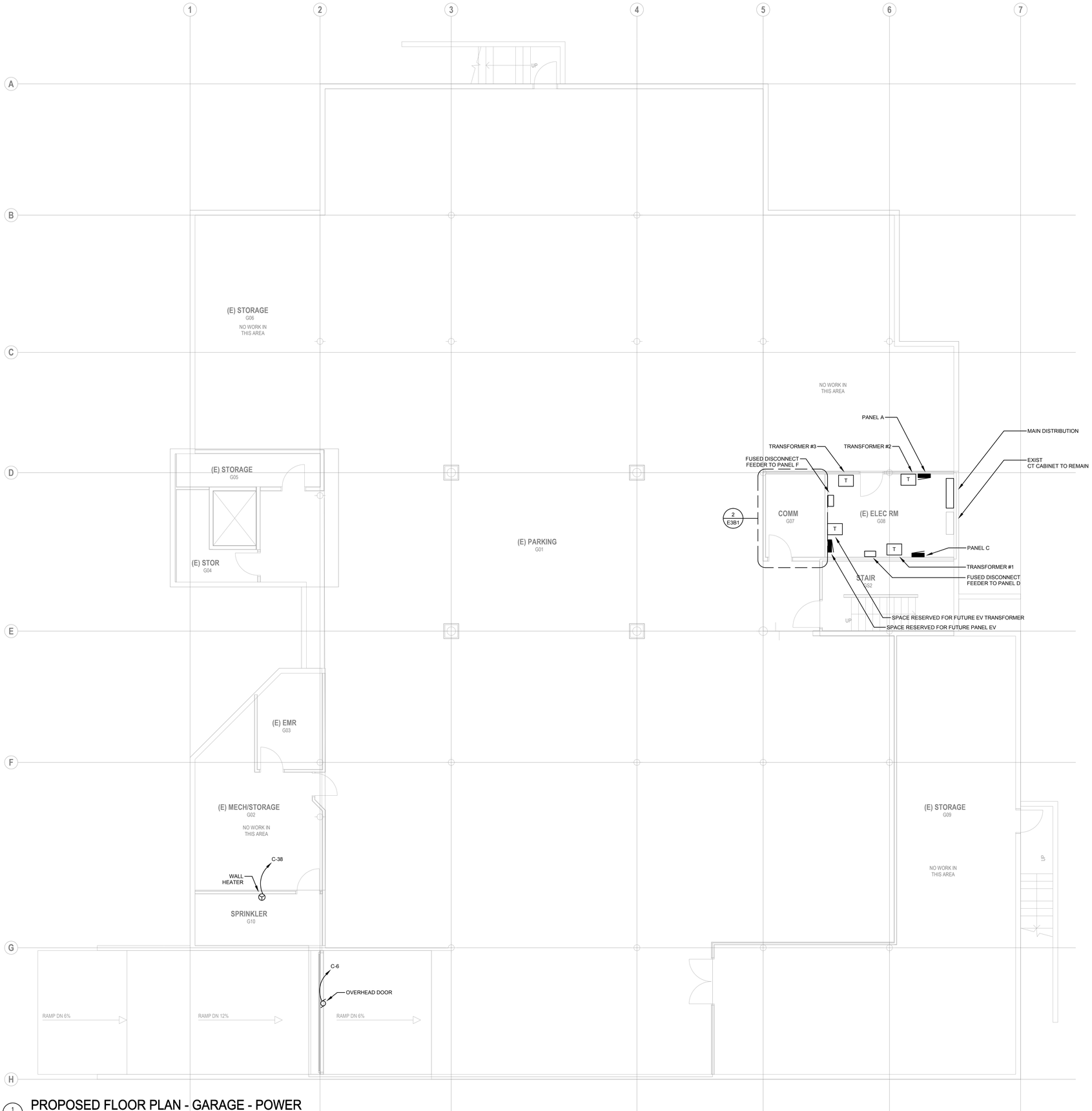
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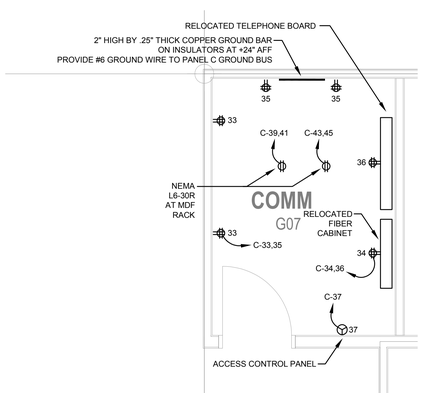
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2 E3B1 ENLARGED COMM G07 - POWER
SCALE: 3/8" = 1'-0"

1 E3B1 PROPOSED FLOOR PLAN - GARAGE - POWER
SCALE: 3/16" = 1'-0"

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1000 Westlake Ave. N., #309
Seattle, WA 98109
p. 206.285.7228 | info@tfwb.com

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720 S 333rd Street
Federal Way, WA 98003

**24022**
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**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
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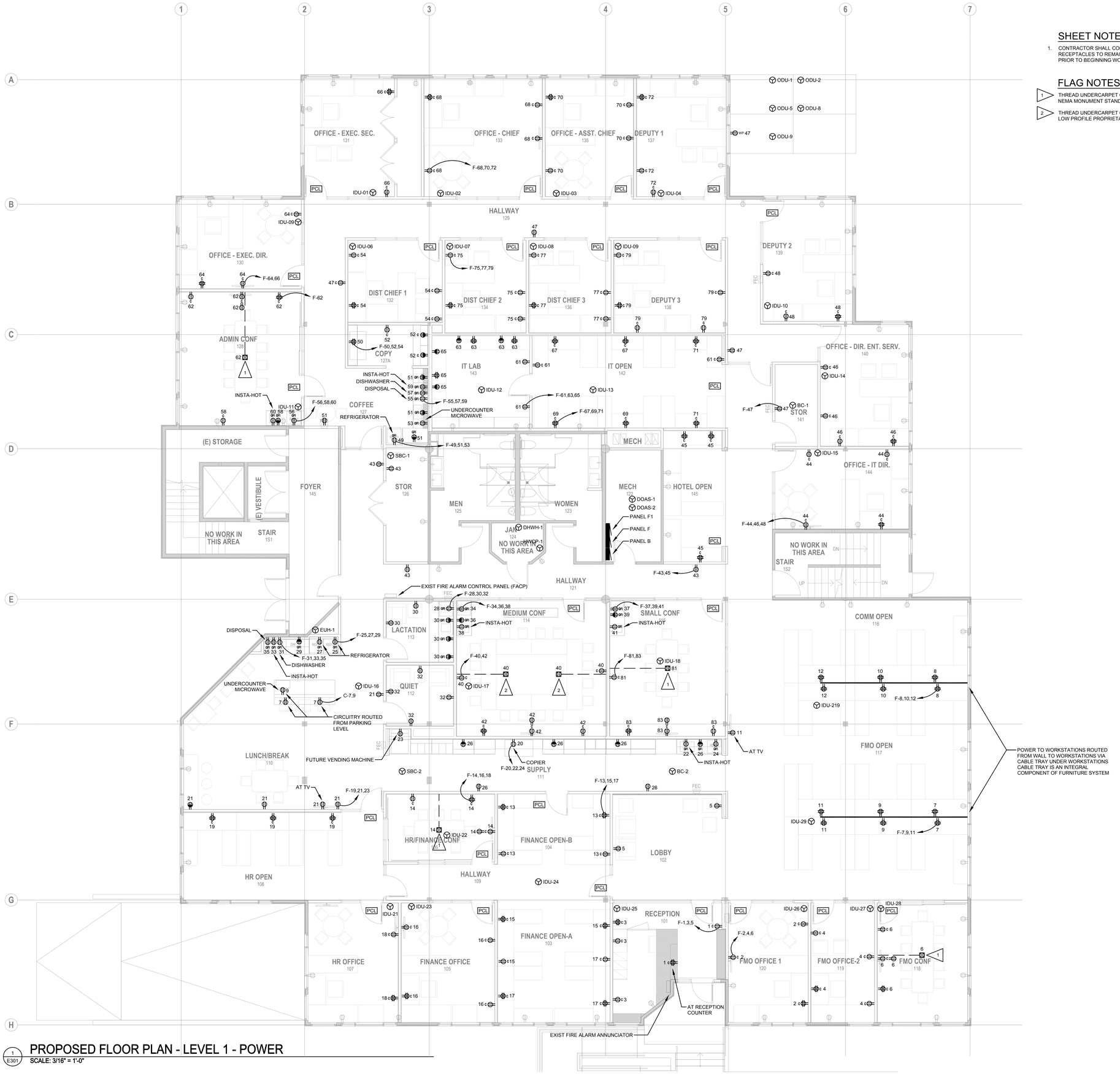
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**PROPOSED FLOOR PLAN - GARAGE - POWER**
Sheet Title

**E3B1**

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1 / E301 **PROPOSED FLOOR PLAN - LEVEL 1 - POWER**
SCALE: 3/16" = 1'-0"

## SHEET NOTES:

1. CONTRACTOR SHALL CONFIRM EXISTING RECEPTACLES TO REMAIN ARE OPERATIONAL PRIOR TO BEGINNING WORK.

## FLAG NOTES:

1. THREAD UNDERCARPET CIRCUITRY SYSTEM. NEMA MONUMENT STANDARD RECEPTACLE.
2. THREAD UNDERCARPET CIRCUITRY SYSTEM. LOW PROFILE PROPRIETARY RECEPTACLE.

| Rev | Date | Issue |
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Travis Fitzmaurice Wartelle Balangue Engineers Inc.
1000 Westlake Ave. N., #326
Seattle, WA 98109
p: 206-285-7228 | info@tfwb.com


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2200 Western Avenue, Suite 301
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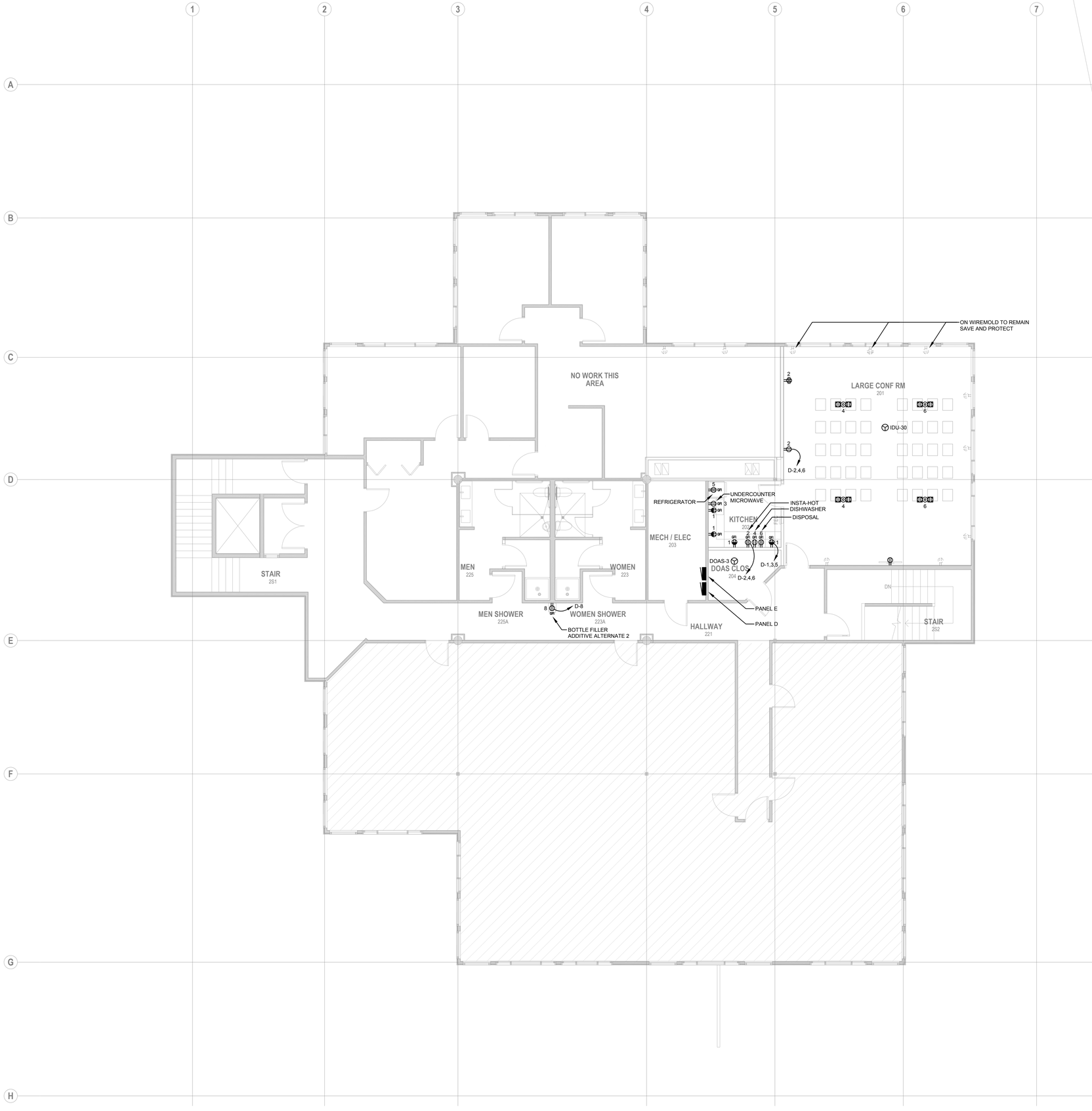
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Sheet Title

**E301**


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## SHEET NOTES:

1. CONTRACTOR SHALL CONFIRM EXISTING RECEPTACLES TO REMAIN ARE OPERATIONAL PRIOR TO BEGINNING WORK.
2. LEVEL 2 WORK IN LARGE CONF RM 201, KITCHEN 202 AND DOAS CLOS 204 SHALL BE PROVIDED UNDER ADDITIVE ALTERNATE 1.

1 E302 PROPOSED FLOOR PLAN - LEVEL 2 - POWER

SCALE: 3/16" = 1'-0"

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Seattle, WA 98109
p: 206-285-7228 | info@tfwb.com

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**PROPOSED FLOOR PLAN - LEVEL 2 - POWER**
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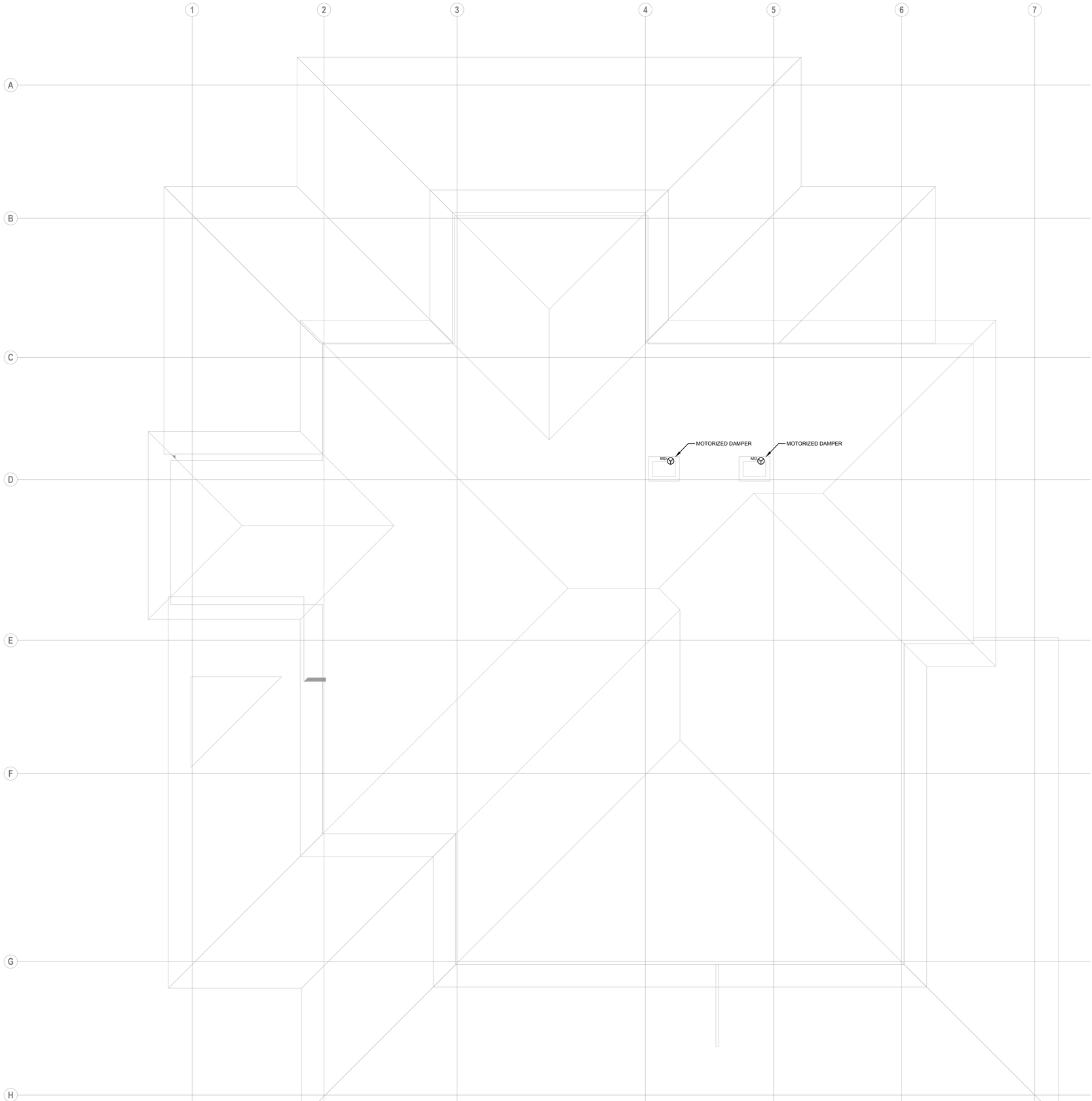
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1 E302 PROPOSED FLOOR PLAN - LEVEL 2 - ELECTRICAL
SCALE: 3/16" = 1'-0"

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

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Travis Fitzmaurice Wartelle Balangue Engineers Inc.
1100 Westlake Ave. N., #509
Seattle, WA 98109
p: 206-285-7228 | info@tfwb.com

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720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #

**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
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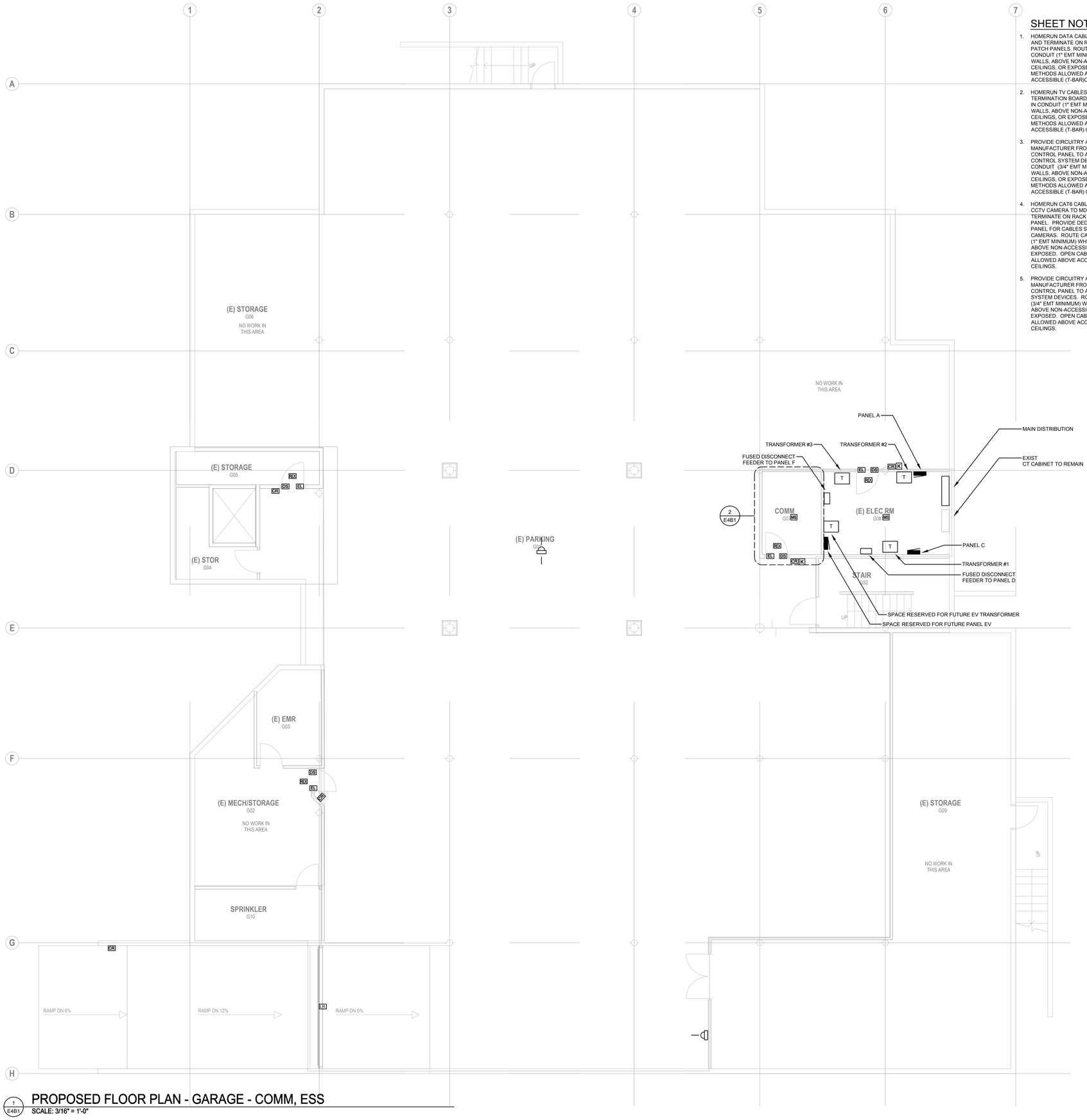
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Issue Date

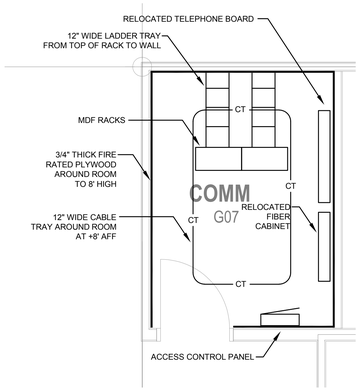
**ROOF PLAN - ELECTRICAL**

Sheet Title

**E303**

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2 E4B1 ENLARGED COMM G07 - COMM,ESS
SCALE: 3/8" = 1'-0"

1 E4B1 PROPOSED FLOOR PLAN - GARAGE - COMM, ESS
SCALE: 3/16" = 1'-0"

## SHEET NOTES:

1. HOMERUN DATA CABLES TO MDF RACK AND TERMINATE ON RACK MOUNTED PATCH PANELS. ROUTE CABLES IN CONDUIT (1" EMT MINIMUM) WHERE IN WALLS, ABOVE NON-ACCESSIBLE CEILINGS, OR EXPOSED. OPEN CABLING METHODS ALLOWED ABOVE ACCESSIBLE (T-BAR)CEILINGS.
2. HOMERUN TV CABLES TO TV TERMINATION BOARD. ROUTED CABLES IN CONDUIT (1" EMT MINIMUM) WHERE IN WALLS, ABOVE NON-ACCESSIBLE CEILINGS, OR EXPOSED. OPEN CABLING METHODS ALLOWED ABOUT ACCESSIBLE (T-BAR) CEILINGS.
3. PROVIDE CIRCUITRY AS REQUIRED BY MANUFACTURER FROM ACCESS CONTROL PANEL TO ALL ACCESS CONTROL SYSTEM DEVICES. ROUTE IN CONDUIT (3/4" EMT MINIMUM) WHERE IN WALLS, ABOVE NON-ACCESSIBLE CEILINGS, OR EXPOSED. OPEN CABLING METHODS ALLOWED ABOVE ACCESSIBLE (T-BAR) CEILINGS.
4. HOMERUN CAT6 CABLE FROM EACH CCTV CAMERA TO MDF RACK AND TERMINATE ON RACK MOUNTED PATCH PANEL. PROVIDE DEDICATED PATCH PANEL FOR CABLES SERVING CCTV CAMERAS. ROUTE CABLES IN CONDUIT (1" EMT MINIMUM) WHERE IN WALLS, ABOVE NON-ACCESSIBLE CEILINGS, OR EXPOSED. OPEN CABLING METHODS ALLOWED ABOVE ACCESSIBLE (T-BAR) CEILINGS.
5. PROVIDE CIRCUITRY AS REQUIRED BY MANUFACTURER FROM FIRE ALARM CONTROL PANEL TO ALL FIRE ALARM SYSTEM DEVICES. ROUTE IN CONDUIT (3/4" EMT MINIMUM) WHERE IN WALLS, ABOVE NON-ACCESSIBLE CEILINGS, OR EXPOSED. OPEN CABLINE METHODE ALLOWED ABOVE ACCESSIBLE (T-BAR) CEILINGS.

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Travis Fitzmaurice Wantelle Balangue Engineers Inc.
7350 Westlake Ave. N., #509
Seattle, WA 98103
p: 206-285-7228 | info@tfwb.com

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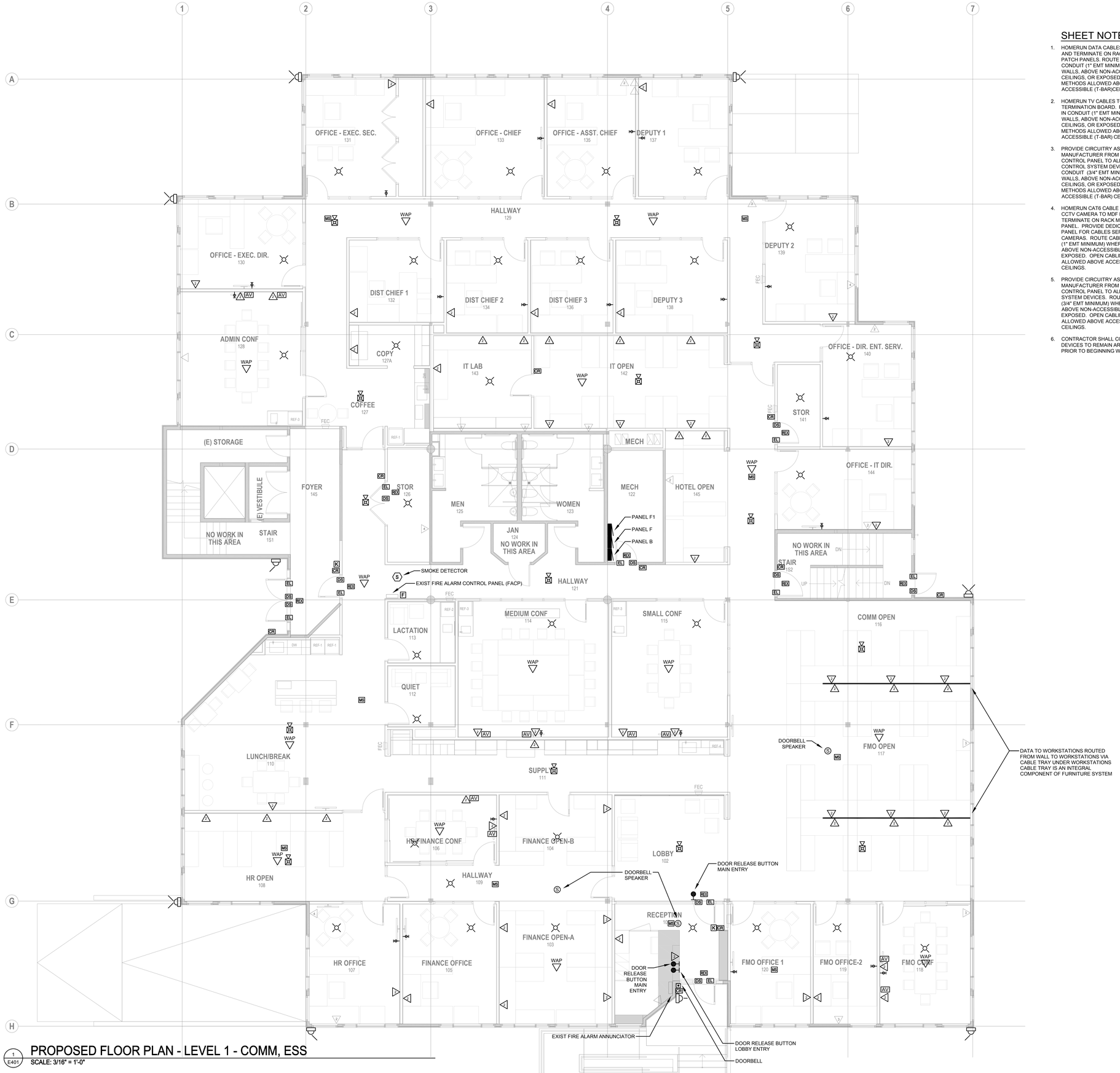
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**PROPOSED FLOOR PLAN - GARAGE - COMM, ESS**
Sheet Title

**E4B1**

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1 E401 PROPOSED FLOOR PLAN - LEVEL 1 - COMM, ESS

SCALE: 3/16" = 1'-0"

## SHEET NOTES:

1. HOMERUN DATA CABLES TO MDF RACK AND TERMINATE ON RACK MOUNTED PATCH PANELS. ROUTE CABLES IN CONDUIT (1" EMT MINIMUM) WHERE IN WALLS, ABOVE NON-ACCESSIBLE CEILINGS, OR EXPOSED. OPEN CABLING METHODS ALLOWED ABOVE ACCESSIBLE (T-BAR)CEILINGS.
2. HOMERUN TV CABLES TO TV TERMINATION BOARD. ROUTED CABLES IN CONDUIT (1" EMT MINIMUM) WHERE IN WALLS, ABOVE NON-ACCESSIBLE CEILINGS, OR EXPOSED. OPEN CABLING METHODS ALLOWED ABOUT ACCESSIBLE (T-BAR) CEILINGS.
3. PROVIDE CIRCUITRY AS REQUIRED BY MANUFACTURER FROM ACCESS CONTROL PANEL TO ALL ACCESS CONTROL SYSTEM DEVICES. ROUTE IN CONDUIT (3/4" EMT MINIMUM) WHERE IN WALLS, ABOVE NON-ACCESSIBLE CEILINGS, OR EXPOSED. OPEN CABLING METHODS ALLOWED ABOVE ACCESSIBLE (T-BAR) CEILINGS.
4. HOMERUN CAT6 CABLE FROM EACH CCTV CAMERA TO MDF RACK AND TERMINATE ON RACK MOUNTED PATCH PANEL. PROVIDE DEDICATED PATCH PANEL FOR CABLES SERVING CCTV CAMERAS. ROUTE CABLES IN CONDUIT (1" EMT MINIMUM) WHERE IN WALLS, ABOVE NON-ACCESSIBLE CEILINGS, OR EXPOSED. OPEN CABLING METHODS ALLOWED ABOVE ACCESSIBLE (T-BAR) CEILINGS.
5. PROVIDE CIRCUITRY AS REQUIRED BY MANUFACTURER FROM FIRE ALARM CONTROL PANEL TO ALL FIRE ALARM SYSTEM DEVICES. ROUTE IN CONDUIT (3/4" EMT MINIMUM) WHERE IN WALLS, ABOVE NON-ACCESSIBLE CEILINGS, OR EXPOSED. OPEN CABLINE METHODE ALLOWED ABOVE ACCESSIBLE (T-BAR) CEILINGS.
6. CONTRACTOR SHALL CONFIRM EXISTING DEVICES TO REMAIN ARE OPERATIONAL PRIOR TO BEGINNING WORK.

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Travis Fitzmaurice Wartelle Balangue Engineers Inc.
1000 Westlake Ave. N., #309
Seattle, WA 98109
p: 206.285.7228 | info@tfwb.com


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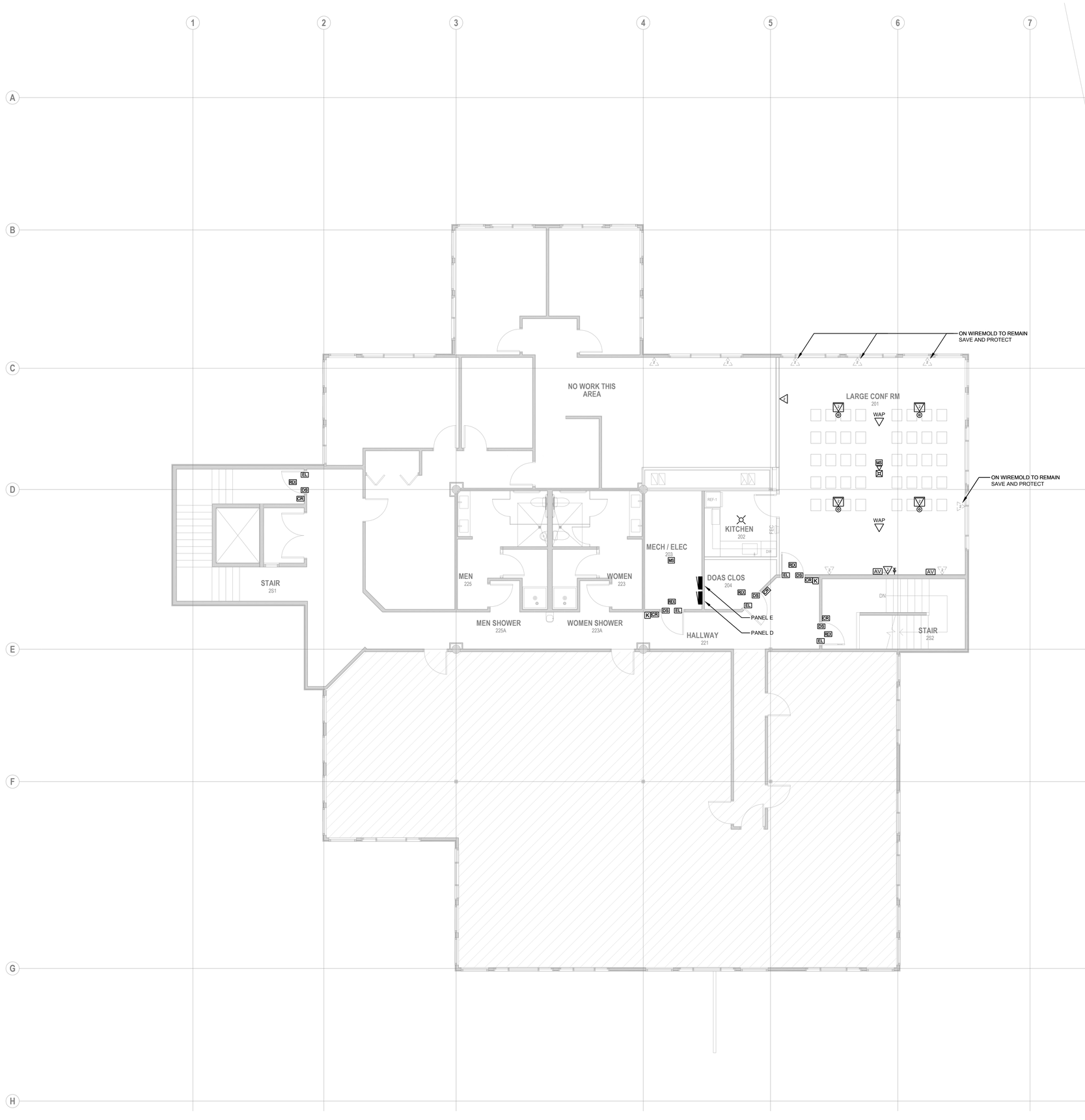
**PROPOSED FLOOR PLAN - LEVEL 1 - COMM, ESS**
Sheet Title

**E401**


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## SHEET NOTES:

1. HOMERUN DATA CABLES TO MDF RACK AND TERMINATE ON RACK MOUNTED PATCH PANELS. ROUTE CABLES IN CONDUIT (1" EMT MINIMUM) WHERE IN WALLS, ABOVE NON-ACCESSIBLE CEILINGS, OR EXPOSED. OPEN CABLING METHODS ALLOWED ABOVE ACCESSIBLE (T-BAR)CEILINGS.
2. HOMERUN TV CABLES TO TV TERMINATION BOARD. ROUTED CABLES IN CONDUIT (1" EMT MINIMUM) WHERE IN WALLS, ABOVE NON-ACCESSIBLE CEILINGS, OR EXPOSED. OPEN CABLING METHODS ALLOWED ABOUT ACCESSIBLE (T-BAR) CEILINGS.
3. PROVIDE CIRCUITRY AS REQUIRED BY MANUFACTURER FROM ACCESS CONTROL PANEL TO ALL ACCESS CONTROL SYSTEM DEVICES. ROUTE IN CONDUIT (3/4" EMT MINIMUM) WHERE IN WALLS, ABOVE NON-ACCESSIBLE CEILINGS, OR EXPOSED. OPEN CABLING METHODS ALLOWED ABOVE ACCESSIBLE (T-BAR) CEILINGS.
4. HOMERUN CAT6 CABLE FROM EACH CCTV CAMERA TO MDF RACK AND TERMINATE ON RACK MOUNTED PATCH PANEL. PROVIDE DEDICATED PATCH PANEL FOR CABLES SERVING CCTV CAMERAS. ROUTE CABLES IN CONDUIT (1" EMT MINIMUM) WHERE IN WALLS, ABOVE NON-ACCESSIBLE CEILINGS, OR EXPOSED. OPEN CABLING METHODS ALLOWED ABOVE ACCESSIBLE (T-BAR) CEILINGS.
5. PROVIDE CIRCUITRY AS REQUIRED BY MANUFACTURER FROM FIRE ALARM CONTROL PANEL TO ALL FIRE ALARM SYSTEM DEVICES. ROUTE IN CONDUIT (3/4" EMT MINIMUM) WHERE IN WALLS, ABOVE NON-ACCESSIBLE CEILINGS, OR EXPOSED. OPEN CABLINE METHODE ALLOWED ABOVE ACCESSIBLE (T-BAR) CEILINGS.
2. LEVEL 2 WORK IN LARGE CONF RM 201, KITCHEN 202 AND DOAS CLOS 204 SHALL BE PROVIDED UNDER ADDITIVE ALTERNATE 1.

1 E402 PROPOSED FLOOR PLAN - LEVEL 2 - COMM, ESS

SCALE: 3/16" = 1'-0"

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Travis Fitzmaurice Wartelle Balangue Engineers Inc.
1500 Westlake Ave. N., #509
Seattle, WA 98109
p: 206-285-7228 | info@tfwb.com


**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #


**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com



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**PROPOSED FLOOR PLAN - LEVEL 2 - COMM, ESS**
Sheet Title

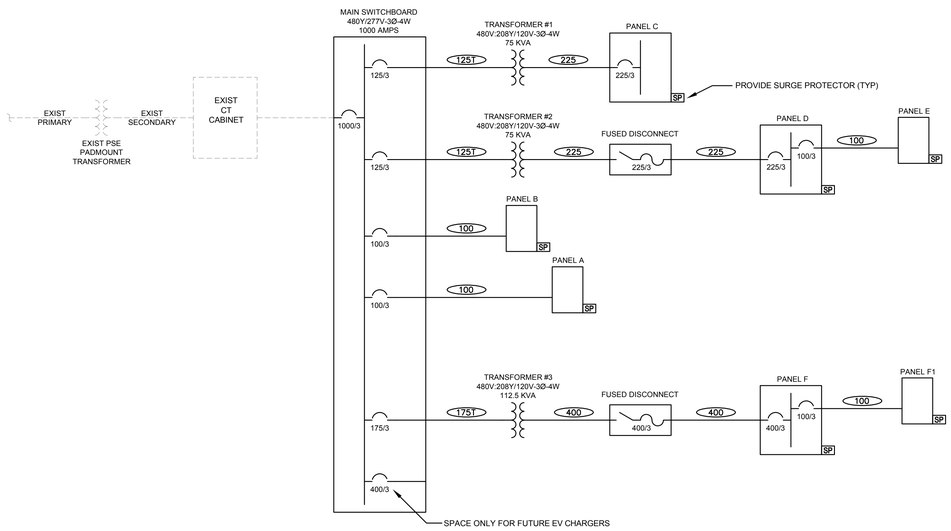
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FEEDER SIZE CHART

| | COPPER – THWN EMT/ PVC | WIRES | GND | ALUMINUM – XHHW–COMPACT EMT/ PVC | WIRES | GND |
|---|---|---|---|---|---|---|
| 100 | 1.25 | "–#2 | –1#6 | 2 | "–#1/0 | –1#6 |
| 125 | 1.5 | "–#1 | –1#4 | 2 | "–#2/0 | –1#2 |
| 125T | 1.5 | "–3#1 | –1#6 | 2 | "–3#2/0 | –1#4 |
| 175T | 2 | "–3#2/0 | –1#6 | 2.5 | "–3#4/0 | –1#4 |
| 225 | 2.5 | "–#4/0 | –1#2 | 3 | "–#300 | –1#1/0 |
| 400 | (2) 2 | "–#3/0 | –1#2/0 | (2) 2.5 | "–#250 | –1#4/0 |

1 E500 **ONE LINE DIAGRAM**
SCALE: NTS

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

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**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com

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**ONE LINE DIAGRAM**
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**E500**

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# LIGHTING FIXTURE SCHEDULE

| TYPE | LAMPS | MANUFACTURER | DESCRIPTION |
|---|---|---|---|
| B | LED<br>12.5W<br>3000K | SISTEMALUX<br>MINI LOOK | 8.5" ALUMINUM BOLLARD. PROVIDE CONCRETE BASE FOR MOUNTING. UL LISTED FOR WET LOCATIONS. |
| GL-1 | LED<br>7W<br>3500K | B-K LIGHTING<br>DELTA STAR LED<br><br>HK LIGHTING<br>ZXL16 | ROTATABLE GROUND MOUNTED FLOOD LIGHT. POWER PIPE MOUNTED WITH KNUCKLE. MEDIUM FLOOD DISTRIBUTION. TYPE TR SERIES REMOTE MOUNTED, TRANSFORMER. DIMMABLE. |
| PL-1 | LED | FINELITE<br><br>PINNNACLE<br>EX2D | AIRCRAFT CABLE HUNG 2" WIDE X 4' LONG LINEAR DIRECT. SUSPEND FLUSH WITH WOOD SLAT CEILING OPENING. |
| PL-1E | | | SAME AS PL-1 EXCEPT WITH INTEGRAL BATTERY BALLAST FOR EGRESS LIGHTING. |
| PL-2 | LED | FINELITE<br><br>PINNACLE<br>EX2D | AIRCRAFT CABLE HUNG 2" WIDE X 2' LONG LINEAR DIRECT. SUSPEND FLUSH WITH WOOD SLAT CEILING OPENING. |
| PL-3 | LED<br>13W<br>3500K | BETA CALCO<br>EXY<br>MIDNIGHT BLUE | DECORATIVE CABLE HUNG PENDANT. SMALL 6.3" DIAMETER. |
| PL-4 | LED<br>26W<br>3500K | BETA CALCO<br>EXY RED | DECORATIVE CABLE HUNG PENDANT. LARGE 15" DIAMETER. MOUNTING ACCESSORIES FOR SLOPED CEILING. |
| RL-1 | LED<br>18.4W<br>3500K | PINNACLE<br>EV4D | RECESSED 4" X 6' LED FIXTURE WITH LENS. COMPATIBLE WITH ARMSTRONG TECH ZONE CEILING SYSTEM. PROVIDE REQUIRED RECESSED MOUNTING TRIMS. 0-10V DIMMING DRIVER. SHALLOW DEPTH. |
| RL-2 | LED<br>18.4W<br>3500K | PINNACLE<br>EV4D | SAME AS RL-1 EXCEPT MOUNT IN GWB CEILING. |
| RL-3 | LED<br>18.4W<br>3500K | PINNACLE<br>EV4D | RECESSED 4" X 4' LED FIXTURE WITH LENS. COMPATIBLE WITH ARMSTRONG TECH ZONE CEILING SYSTEM. PROVIDE REQUIRED RECESSED MOUNTING TRIMS. 0-10V DIMMING DRIVER. SHALLOW DEPTH. |
| RL-3E | | | SAME AS RL-3 EXCEPT WITH INTEGRAL BATTERY BACKUP FOR EGRESS LIGHTING. |
| RL-4 | LED<br>18.4W<br>3500K | PINNACLE<br>EV4D | RECESSED 4" X 8' LED FIXTURE WITH LENS. COMPATIBLE WITH ARMSTRONG TECH ZONE CEILING SYSTEM. PROVIDE REQUIRED RECESSED MOUNTING TRIMS. 0-10V DIMMING DRIVER. SHALLOW DEPTH. |
| RL-5 | LED<br>11.8W<br>3500K | GOTHAM<br>EVO SERIES<br><br>HALO<br>HC4 | 4 INCH ROUND RECESSED LED DOWNLIGHT WITH SPECULAR CLEAR ALZAK REFLECTOR. SHALLOW DEPTH. |
| RL-5E | | | SAME AS RL-5 EXCEPT INTEGRAL BATTERY BACKUP FOR EGRESS LIGHTING. |
| RL-6 | LED<br>11.8W<br>3500K | GOTHAM<br>EVO SERIES<br><br>HALO<br>HC4 | SAME AS RL-5 EXCEPT WALL WASH DISTRIBUTION |
| RL-7 | LED<br>11.8W<br>3500K | GOTHAM<br>EVO SERIES<br><br>HALO HC4 | 4 INCH ROUND RECESSED LED DOWNLIGHT WITH SPECULAR CLEAR ALZAK REFLECTOR. SHALLOW DEPTH. UL LISTED FOR WET LOCATIONS. |
| RL-8 | LED<br>18.4W<br>3500K | PINNACLE<br>EV4D | RECESSED 4" X 3' LED FIXTURE WITH LENS. COMPATIBLE WITH ARMSTRONG TECH ZONE CEILING SYSTEM. PROVIDE REQUIRED RECESSED MOUNTING TRIMS. 0-10V DIMMING DRIVER. SHALLOW DEPTH. |
| RL-9 | LED<br>11.8W<br>3500K | GOTHAM<br>EVO SERIES<br><br>HALO HC4 | 4 INCH ROUND RECESSED LED DOWNLIGHT WITH SHOWER RATED TRIM. SHALLOW DEPTH. |
| SL-1 | LED<br>22W<br>3500K | LITHONIA<br>BLWP<br><br>METALUX<br>4AWS | SURFACE MOUNTED WRAPAROUND |
| SL-1E | | | SAME AS SL-1 EXCEPT INTEGRAL BATTERY BACKUP FOR EGRESS LIGHTING. |
| UC | LED | KELVIX<br>409 I | UNDERCOUNTER LINEAR STRIP. PROVIDE SWITCH AND OCCUPANCY SENSOR AT FIXTURE. |
| WL-1 | LED<br>18W<br>3500K | WAC LIGHTING<br>BRINK BATHROOM<br>SCONCE | 36" WIDE VANITY FIXTURE |
| WL-2 | LED<br>5W/FT<br>3000K | PURE EDGE LIGHTING<br>FN LRT7 | FLEXIBLE LED STRIP WITH 3 SIDED LENS AND UNIFORM ILLUMINATION. CONTINUOUS ROW. SURFACE MOUNTED. PROVIDE WITH REMOTE POWER SUPPLY. UL LISTED FOR WET LOCATIONS. |
| WL-3 | LED<br>18W<br>3500K | LUMINII<br>KLW | KENDO L SURFACE WET LINEAR ILLUMINATION SYSTEM WITH ADJUSTABLE HINGED BRACKET. 4' LONG. STATIC WHITE. UL LISTED FOR WET LOCATIONS. |
| X | LED<br>1W | PHILIPS<br>45V SERIES<br><br>BEGHELLI<br>OL2 SERIES<br><br>EMERGILITE<br>WLSNX SERIES | CEILING/WALL MOUNT EDGE LIT LED EXIT SIGN WITH BATTERIES, SELF DIAGNOSTICS AND ALL MOUNTING ACCESSORIES REQUIRED. PROVIDE ARROWS AND FACES AS SHOWN ON DRAWINGS. PROVIDE WHITE BODY WITH GREEN LETTERS AND UNIFORM LENS OVER LED. |

ALL COLORS, FINISHES, ETC. ARE BY ARCHITECT FROM MANUFACTURER'S STANDARD COLOR OPTIONS

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Travis Fitzmaurice Wartelle Balangue Engineers Inc.
1300 Westlake Ave. N., #509
Seattle, WA 98109
p: 206-285-7228 | info@tfwb.com

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720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #

**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com

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Issue Date

**LIGHTING FIXTURE SCHEDULE**

Sheet Title

**E600**

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## LIGHTING CONTROL SCHEDULE

| CONTROLLER | ROOM | PANEL | CKT | INTERFACE | CONTROL DEVICES | DESCRIPTION |
|---|---|---|---|---|---|---|
| **101** | **RECEPTION** | B | 1 a | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR | GENERAL |
| | | | b | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR | GENERAL |
| *6 BUTTON* | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | *SWITCH LABEL:* | | |
| | 1) a | ON/OFF | | ON/OFF | | |
| | 2) a | DIM UP | | RAISE | | |
| | 3) a | DIM DOWN | | LOWER | | |
| | 4) b | ON/OFF | | ON/OFF | | |
| | 5) b | DIM UP | | RAISE | | |
| | 6) b | DIM DOWN | | LOWER | | |
| **102** | **LOBBY** | B | 1 a | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR | GENERAL |
| | | | b | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR | GENERAL |
| *6 BUTTON* | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | *SWITCH LABEL:* | | |
| | 1) a | ON/OFF | | ON/OFF | | |
| | 2) a | DIM UP | | RAISE | | |
| | 3) a | DIM DOWN | | LOWER | | |
| | 4) b | ON/OFF | | ON/OFF | | |
| | 5) b | DIM UP | | RAISE | | |
| | 6) b | DIM DOWN | | LOWER | | |
| **103** | **FINANCE** | B | 1 a | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR | GENERAL |
| *3 BUTTON* | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | *SWITCH LABEL:* | | |
| | 1) a | ON/OFF | | ON/OFF | | |
| | 2) a | DIM UP | | RAISE | | |
| | 3) a | DIM DOWN | | LOWER | | |
| **104** | **FINANCE** | B | 1 c | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR | GENERAL |
| *3 BUTTON* | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | *SWITCH LABEL:* | | |
| | 1) c | ON/OFF | | ON/OFF | | |
| | 2) c | DIM UP | | RAISE | | |
| | 3) c | DIM DOWN | | LOWER | | |
| **108** | **WAITING** | B | 1 a | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR, PHOTOCELL | DAYLIGHT ZONE 1 |
| | | | b | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR, PHOTOCELL | DAYLIGHT ZONE 2 |
| | | | c | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR | GENERAL |
| *6 BUTTON* | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | *SWITCH LABEL:* | | |
| | 1) a,b | ON/OFF | | ON/OFF | | |
| | 2) a,b | DIM UP | | RAISE | | |
| | 3) a,b | DIM DOWN | | LOWER | | |
| | 4) c | ON/OFF | | ON/OFF | | |
| | 5) c | DIM UP | | RAISE | | |
| | 6) c | DIM DOWN | | LOWER | | |
| **109** | **HALL** | B | 1 b | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR | GENERAL |
| *3 BUTTON* | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | *SWITCH LABEL:* | | |
| | 1) b | ON/OFF | | ON/OFF | | |
| | 2) b | DIM UP | | RAISE | | |
| | 3) b | DIM DOWN | | LOWER | | |
| **110** | **BREAK** | B | 1 a | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR, PHOTOCELL | DAYLIGHT ZONE 1 |
| | | | b | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR, PHOTOCELL | DAYLIGHT ZONE 2 |
| | | | c | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR | GENERAL |
| *6 BUTTON* | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | *SWITCH LABEL:* | | |
| | 1) a,b | ON/OFF | | ON/OFF | | |
| | 2) a,b | DIM UP | | RAISE | | |
| | 3) a,b | DIM DOWN | | LOWER | | |
| | 4) c | ON/OFF | | ON/OFF | | |
| | 5) c | DIM UP | | RAISE | | |
| | 6) c | DIM DOWN | | LOWER | | |
| **111** | **SUPPLY** | B | 1 a | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR | GENERAL |
| *3 BUTTON* | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | *SWITCH LABEL:* | | |
| | 1) a | ON/OFF | | ON/OFF | | |
| | 2) a | DIM UP | | RAISE | | |
| | 3) a | DIM DOWN | | LOWER | | |
| **114** | **CONFERENCE** | B | 1 a | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR | GENERAL |
| *3 BUTTON* | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | *SWITCH LABEL:* | | |
| | 1) a | ON/OFF | | ON/OFF | | |
| | 2) a | DIM UP | | RAISE | | |
| | 3) a | DIM DOWN | | LOWER | | |
| **116** | **COMM OPEN** | B | 1 a | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR, PHOTOCELL | DAYLIGHT ZONE 1 |
| | | | b | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR, PHOTOCELL | DAYLIGHT ZONE 2 |
| | | | c | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR | GENERAL |
| *6 BUTTON* | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | *SWITCH LABEL:* | | |
| | 1) a,b | ON/OFF | | ON/OFF | | |
| | 2) a,b | DIM UP | | RAISE | | |
| | 3) a,b | DIM DOWN | | LOWER | | |
| | 4) c | ON/OFF | | ON/OFF | | |
| | 5) c | DIM UP | | RAISE | | |
| | 6) c | DIM DOWN | | LOWER | | |

## LIGHTING CONTROL SCHEDULE

| CONTROLLER | ROOM | PANEL | CKT | INTERFACE | CONTROL DEVICES | DESCRIPTION |
|---|---|---|---|---|---|---|
| **117** | **FMO OPEN** | B | 1 d | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR, PHOTOCELL | DAYLIGHT ZONE 1 |
| | | | e | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR, PHOTOCELL | DAYLIGHT ZONE 2 |
| | | | f | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR | GENERAL |
| *6 BUTTON* | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | *SWITCH LABEL:* | | |
| | 1) d,e | ON/OFF | | ON/OFF | | |
| | 2) d,e | DIM UP | | RAISE | | |
| | 3) d,e | DIM DOWN | | LOWER | | |
| | 4) f | ON/OFF | | ON/OFF | | |
| | 5) f | DIM UP | | RAISE | | |
| | 6) f | DIM DOWN | | LOWER | | |
| **121** | **HALLWAY** | B | 1 a | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR | GENERAL |
| *3 BUTTON* | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | *SWITCH LABEL:* | | |
| | 1) a | ON/OFF | | ON/OFF | | |
| **128** | **CONFERENCE** | B | 3 a | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR | GENERAL |
| *3 BUTTON* | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | *SWITCH LABEL:* | | |
| | 1) a | ON/OFF | | ON/OFF | | |
| | 2) a | DIM UP | | RAISE | | |
| | 3) a | DIM DOWN | | LOWER | | |
| **129** | **HALLWAY** | B | 3 a | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR | GENERAL |
| *3 BUTTON* | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | *SWITCH LABEL:* | | |
| | 1) a | ON/OFF | | ON/OFF | | |
| **142** | **IT OPEN** | B | 3 a | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR | GENERAL |
| *3 BUTTON* | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | *SWITCH LABEL:* | | |
| | 1) a | ON/OFF | | ON/OFF | | |
| | 2) a | DIM UP | | RAISE | | |
| | 3) a | DIM DOWN | | LOWER | | |
| **201** | **CONFERENCE** | B | 2 a | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR, PHOTOCELL | DAYLIGHT ZONE 1 |
| | | | b | 0-10VDC | DIG SWITCH, OCCUPANCY SENSOR, PHOTOCELL | DAYLIGHT ZONE 2 |
| *6 BUTTON* | | | | *ENGRAVED* | | |
| *SWITCH:* | *ZONE:* | *FUNCTION:* | | *SWITCH LABEL:* | | |
| | 1) a | ON/OFF | | ON/OFF | | |
| | 2) a | DIM UP | | RAISE | | |
| | 3) a | DIM DOWN | | LOWER | | |
| | 4) b | ON/OFF | | ON/OFF | | |
| | 5) b | DIM UP | | RAISE | | |
| | 6) b | DIM DOWN | | LOWER | | |
| **EXTERIOR LIGHTS** | **SITE** | A | 1 | | TIMECLOCK, MOTION SENSOR | EXTERIOR LIGHTS |

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TFWB ENGINEERS
Travis Fitzmaurice Wartelle Balangue Engineers Inc.
1200 Westlake Ave. N., #309
Seattle, WA 98109
p: 206.285.7228 | info@tfwb.com

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**24022**
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**Weinstein A+U**
2200 Western Avenue, Suite 301
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206.443.8606
www.weinsteinau.com

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**LIGHTING CONTROL SCHEDULE**

Sheet Title

**E601**

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## MECHANICAL EQUIPMENT CONNECTION SCHEDULE

| UNIT | LOCATION | VOLTAGE/PHASE | HP | KVA/KW | FLA | MCA | MOCP | DISCONNECT/STARTER COMPONENT | CONDUIT AND WIRE SIZE | PANEL | CIRCUIT # | STANDBY POWER | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *BRANCH CIRCUIT CONTROLLER* | | | | | | | | | | | | | |
| BC-1 | STORAGE 141 | 208/1 | | | | | | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 1,3 | NO | OUTDOOR UNIT ODU-1 |
| SBC-1 | STORAGE 126 | 208/1 | | | | | | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 5,7 | NO | OUTDOOR UNIT ODU-1 |
| BC-2 | SUPPLY 111 | 208/1 | | | | | | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 2,4 | NO | OUTDOOR UNIT ODU-2 |
| SBC-2 | SUPPLY 111 | 208/1 | | | | | | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 6,8 | NO | OUTDOOR UNIT ODU-2 |
| *HEAT RECOVERY VENTILATOR* | | | | | | | | | | | | | |
| DOAS-1 | MECH ROOM | 208/1 | | 0.85 KW | | | | FUSED DISCONNECT | 1/2"-3#12&1#12 GND | F2 | 9,11 | NO | |
| DOAS-2 | MECH ROOM | 208/1 | | 0.85 KW | | | | FUSED DISCONNECT | 1/2"-3#12&1#12 GND | F2 | 10,12 | NO | |
| DOAS-3 | KITCHEN 202 | 208/1 | | 0.235 KW | | | | FUSED DISCONNECT | 1/2"-3#12&1#12 GND | F2 | 13,15 | NO | ADDITIVE ALTERNATE |
| *VRF OUTDOOR UNIT* | | | | | | | | | | | | | |
| ODU-1 | EXTERIOR | 208/3 | | | | 34 | | WP FUSED DISCONNECT | 1"-4#8&1#10 GND | C | 11,13,15 | NO | |
| ODU-2 | EXTERIOR | 208/3 | | | | 34 | | WP FUSED DISCONNECT | 1"-4#8&1#10 GND | C | 17,19,21 | NO | |
| *VRF INDOOR UNIT* | | | | | | | | | | | | | |
| IDU-01 | ROOM 131 | 208/1 | | | | 0.24 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 14,16 | NO | |
| IDU-02 | ROOM 133 | 208/1 | | | | 0.24 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 14,16 | NO | |
| IDU-03 | ROOM 135 | 208/1 | | | | 0.24 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 14,16 | NO | |
| IDU-04 | ROOM 137 | 208/1 | | | | 0.24 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 14,16 | NO | |
| IDU-05 | ROOM 130 | 208/1 | | | | 0.24 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 14,16 | NO | |
| IDU-06 | ROOM 132 | 208/1 | | | | 0.24 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 14,16 | NO | |
| IDU-07 | ROOM 134 | 208/1 | | | | 0.24 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 14,16 | NO | |
| IDU-08 | ROOM 136 | 208/1 | | | | 0.24 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 14,16 | NO | |
| IDU-09 | ROOM 138 | 208/1 | | | | 0.24 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 14,16 | NO | |
| IDU-10 | ROOM 139 | 208/1 | | | | 0.24 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 14,16 | NO | |
| IDU-11 | ROOM 128 | 208/1 | | | | 0.24 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 18,20 | NO | |
| IDU-12 | ROOM 143 | 208/1 | | | | 0.28 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 18,20 | NO | |
| IDU-13 | ROOM 142 | 208/1 | | | | 0.24 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 18,20 | NO | |
| IDU-14 | ROOM 140 | 208/1 | | | | 0.24 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 18,20 | NO | |
| IDU-15 | ROOM 144 | 208/1 | | | | 0.24 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 18,20 | NO | |
| IDU-16 | ROOM 110 | 208/1 | | | | 0.29 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 18,20 | NO | |
| IDU-17 | ROOM 114 | 208/1 | | | | 0.28 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 18,20 | NO | |
| IDU-18 | ROOM 115 | 208/1 | | | | 0.28 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 18,20 | NO | |
| IDU-19 | ROOM 116 | 208/1 | | | | 0.29 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 18,20 | NO | |
| IDU-20 | ROOM 108 | 208/1 | | | | 0.24 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 17,19 | NO | |
| IDU-21 | ROOM 107 | 208/1 | | | | 0.24 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 17,19 | NO | |
| IDU-22 | ROOM 106 | 208/1 | | | | 0.24 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 17,19 | NO | |
| IDU-23 | ROOM 105 | 208/1 | | | | 0.24 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 17,19 | NO | |
| IDU-24 | ROOM 103 | 208/1 | | | | 0.28 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 17,19 | NO | |
| IDU-25 | ROOM 101 | 208/1 | | | | 0.24 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 17,19 | NO | |
| IDU-26 | ROOM 120 | 208/1 | | | | 0.24 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 17,19 | NO | |
| IDU-27 | ROOM 119 | 208/1 | | | | 0.24 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 17,19 | NO | |
| IDU-28 | ROOM 118 | 208/1 | | | | 0.24 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 17,19 | NO | |
| IDU-29 | ROOM 117 | 208/1 | | | | 0.29 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | F2 | 17,19 | NO | |
| IDU-30 | ROOM 202 | 208/1 | | | | 0.29 | 15 | MOTOR RATED SWITCH | 1/2"-3#12&1#12 GND | D | 10,12 | NO | |
| *ELECTRIC UNIT HEATERS* | | | | | | | | | | | | | |
| EUH-1 | STAIRS | 208/1 | | 2000 WATTS | | | | DISCONNECT | 1/2"-3#12&1#12 GND | C | 10,12 | NO | |
| *PUMPS* | | | | | | | | | | | | | |
| HWCP-1 | MECH ROOM | 120/1 | 1/3 | | | | | DISCONNECT | 1/2"-2#12&1#12 GND | F1 | 21 | NO | |
| CP | IDU, BC, SBC | 120/1 | | | | | | DISCONNECT | 1/2"-2#12&1#12 GND | F1 | 23 | NO | |
| *DOMESTIC HOT WATER HEATER* | | | | | | | | | | | | | |
| DHWH-1 | JAN 124 | 208/1 | | | | | | DISCONNECT | 1"-3#8&1#10 GND | F1 | 25,27 | NO | |
| DHWH-2 | | 208/1 | | | | | | DISCONNECT | 1"-3#8&1#10 GND | F1 | 29,31 | NO | |

| Rev | Date | Issue |
|---|---|---|
| | | |

TFWB ENGINEERS
Travis Fitzmaurice Wartelle Balangue Engineers Inc.
1300 Westlake Ave. N., #509
Seattle, WA 98109
p: 206-285-7228 | info@tfwb.com

**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #

**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com

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JURISDICTIONAL APPROVAL STAMP

**BID SET**
Issue

**7/18/25**
Issue Date

**MECHANICAL EQUIPMENT CONNECTION SCHEDULE**
Sheet Title

**E700**

WEINSTEIN A+U
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MAIN SWITCHBOARD
LOCATION ELEC G08
MOUNTING SURFACE
AIC 65,000
FED FROM UTILITY

VOLTS 480 /277 3 PHASE, 4 WIRE, WYE
AMPS 1000
MAIN CIRCUIT BREAKER
GROUND BUS
UL SERVICE LABEL
PROVIDE SURGE PROTECTOR

| CCT NO. | CCT BRKR | DESCRIPTION | LOAD KVA | CCT NO. | CCT BRKR | DESCRIPTION | LOAD KVA |
|---|---|---|---|---|---|---|---|
| 1 | 100/3 | PANEL A | 3.30 | 2 | 100/3 | PANEL B | 6.49 |
| 3 | 125/3 | PANEL C | 49.22 | 4 | 125/3 | PANEL D | 23.97 |
| 5 | 175/3 | PANEL F | 79.51 | 6 | 225/3 | SPACE ONLY | 0.00 |
| 7 | 400/3 | SPACE ONLY-FUTURE EV | 0.00 | 8 | 400/3 | SPACE ONLY | 0.00 |
| 9 | 100/3 | SPACE ONLY | 0.00 | 10 | 60/3 | SURGE PROTECTOR | 0.00 |

| CONNECTED LOAD KVA | | DEMAND FACTOR | DEMAND LOAD KVA | AMPS |
|---|---|---|---|---|
| LIGHTS | 9.99 | 125% | 12.49 | 15.02 |
| RECEPTS 10 KVA | 10.00 | 100% | 10.00 | 12.03 |
| RECEPTS >10 KVA | 65.96 | 50% | 32.98 | 39.67 |
| HEATING | 16.10 | 100% | 16.10 | 19.37 |
| LARGEST MOTOR | 0.00 | 125% | 0.00 | 0.00 |
| OTHER MOTORS | 24.74 | 100% | 24.74 | 29.75 |
| MISCELLANEOUS | 13.10 | 100% | 13.10 | 15.76 |
| KITCH. APPLIANCES | 22.60 | 65% | 14.69 | 17.67 |
| | 162.49 | | 124.09 | 149.26 |

PANEL A
LOCATION ELEC G08
MOUNTING SURFACE
AIC 35,000
FED FROM MAIN SWBD

VOLTS 480 /277 3 PHASE, 4 WIRE, WYE
AMPS 100
MAIN LUGS ONLY
GROUND BUS

| CCT NO. | CCT BRKR | DESCRIPTION | LOAD KVA | CCT NO. | CCT BRKR | DESCRIPTION | LOAD KVA |
|---|---|---|---|---|---|---|---|
| 1 | 20/1 | EXTERIOR LIGHTS | 0.50 | 2 | 20/1 | LIGHTS | 0.20 |
| 3 | 20/1 | EXIST EXTERIOR POLE LTS | 1.50 | 4 | 20/1 | SPARE | 0.00 |
| 5 | 20/1 | EXIST EXTERIOR POLE LTS | 1.60 | 6 | 20/1 | SPARE | 0.00 |
| 7 | 20/1 | EXIST PARK GARAGE LTS | 0.50 | 8 | 20/1 | SPARE | 0.00 |
| 9 | 20/1 | EXIST PARK GARAGE LTS | 0.50 | 10 | 20/1 | SPARE | 0.00 |
| 11 | 20/1 | SPARE | 0.00 | 12 | 20/1 | SPARE | 0.00 |
| 13 | 20/1 | SPARE | 0.00 | 14 | 20/1 | SPARE | 0.00 |
| 15 | 20/1 | SPARE | 0.00 | 16 | 20/1 | SPARE | 0.00 |
| 17 | 20/1 | SPARE | 0.00 | 18 | | SPACE | |
| 19 | 20/1 | SPARE | 0.00 | 20 | | SPACE | |
| 21 | | SPACE | | 22 | | SPACE | |
| 23 | | SPACE | | 24 | | SPACE | |
| 25 | | SPACE | | 26 | | SPACE | |
| 27 | | SPACE | | 28 | | SPACE | |
| 29 | | SPACE | | 30 | | SPACE | |
| 31 | | SPACE | | 32 | | SPACE | |
| 33 | | SPACE | | 34 | | SPACE | |
| 35 | | SPACE | | 36 | | SPACE | |
| 37 | | SPACE | | 38 | | SPACE | |
| 39 | | SPACE | | 40 | | SPACE | |
| 41 | | SPACE | | 42 | | SPACE | |

| CONNECTED LOAD KVA | | DEMAND FACTOR | DEMAND LOAD KVA | AMPS |
|---|---|---|---|---|
| LIGHTS | 3.30 | 125% | 4.13 | 4.96 |
| RECEPTACLES | 0.00 | 100% | 0.00 | 0.00 |
| HEATING | 0.00 | 100% | 0.00 | 0.00 |
| LARGEST MOTOR | 0.00 | 125% | 0.00 | 0.00 |
| OTHER MOTORS | 0.00 | 100% | 0.00 | 0.00 |
| MISCELLANEOUS | 0.00 | 100% | 0.00 | 0.00 |
| KITCH. APPLIANCES | 0.00 | 65% | 0.00 | 0.00 |
| | 3.30 | | 4.13 | 4.96 |

PANEL B
LOCATION MECH 122
MOUNTING SURFACE
AIC 22,000
FED FROM MAIN SWBD

VOLTS 480 /277 3 PHASE, 4 WIRE, WYE
AMPS 100
MAIN LUGS ONLY
GROUND BUS

| CCT NO. | CCT BRKR | DESCRIPTION | LOAD KVA | CCT NO. | CCT BRKR | DESCRIPTION | LOAD KVA |
|---|---|---|---|---|---|---|---|
| 1 | 20/1 | LIGHTS | 2.20 | 2 | 20/1 | LIGHTS | 0.92 |
| 3 | 20/1 | LIGHTS | 4.09 | 4 | 20/1 | EXIST LIGHTS | 0.80 |
| 5 | 20/1 | RECEPTS | 0.00 | 6 | 20/1 | EXIST LIGHTS | 0.68 |
| 7 | 20/1 | SPARE | 0.00 | 8 | 20/1 | SPARE | 0.00 |
| 9 | 20/1 | SPARE | 0.00 | 10 | 20/1 | SPARE | 0.00 |
| 11 | 20/1 | SPARE | 0.00 | 12 | 20/1 | SPARE | 0.00 |
| 13 | 20/1 | SPARE | 0.00 | 14 | 20/1 | SPARE | 0.00 |
| 15 | | SPACE ONLY | | 16 | 20/1 | SPARE | 0.00 |
| 17 | | SPACE ONLY | | 18 | 20/1 | SPARE | 0.00 |
| 19 | | SPACE ONLY | | 20 | | SPACE ONLY | |
| 21 | | SPACE ONLY | | 22 | | SPACE ONLY | |
| 23 | | SPACE ONLY | | 24 | | SPACE ONLY | |
| 25 | | SPACE ONLY | | 26 | | SPACE ONLY | |
| 27 | | SPACE ONLY | | 28 | | SPACE ONLY | |
| 29 | | SPACE ONLY | | 30 | | SPACE ONLY | |
| 31 | | SPACE ONLY | | 32 | | SPACE ONLY | |
| 33 | | SPACE ONLY | | 34 | | SPACE ONLY | |
| 35 | | SPACE ONLY | | 36 | | SPACE ONLY | |
| 37 | | SPACE ONLY | | 38 | | SPACE ONLY | |
| 39 | | SPACE ONLY | | 40 | | SPACE ONLY | |
| 41 | | SPACE ONLY | | 42 | | SPACE ONLY | |

| CONNECTED LOAD KVA | | DEMAND FACTOR | DEMAND LOAD KVA | AMPS |
|---|---|---|---|---|
| LIGHTS | 6.49 | 125% | 8.11 | 9.76 |
| RECEPTACLES | 0.00 | 100% | 0.00 | 0.00 |
| HEATING | 0.00 | 100% | 0.00 | 0.00 |
| LARGEST MOTOR | 0.00 | 125% | 0.00 | 0.00 |
| OTHER MOTORS | 0.00 | 100% | 0.00 | 0.00 |
| MISCELLANEOUS | 0.00 | 100% | 0.00 | 0.00 |
| KITCH. APPLIANCES | 0.00 | 65% | 0.00 | 0.00 |
| | 6.49 | | 8.11 | 9.76 |

PANEL C
LOCATION ELEC G08
MOUNTING SURFACE
AIC 10,000
FED FROM MAIN SWBD

VOLTS 208 /120 3 PHASE, 4 WIRE, WYE
AMPS 225
MAIN BREAKER
GROUND BUS
PROVIDE SURGE PROTECTOR

| CCT NO. | CCT BRKR | DESCRIPTION | LOAD KVA | CCT NO. | CCT BRKR | DESCRIPTION | LOAD KVA |
|---|---|---|---|---|---|---|---|
| 1 | 20/1 | SHORE POWER RECEPTS | 0.72 | 2 | 20/1 | FLAG POLE | 0.20 |
| 3 | 20/1 | SHORE POWER RECEPTS | 0.54 | 4 | 30/1 | READER BOARD | 0.50 |
| 5 | 20/1 | SHORE POWER RECEPTS | 0.54 | 6 | 20/1 | OVERHEAD DOOR | 1.00 |
| 7 | 20/1 | RECEPTS | 0.36 | 8 | 20/1 | FACP | 1.00 |
| 9 | 20/1 | MICROWAVE | 1.00 | 10 | 15/2 | EUH-1 | 2.00 |
| 11 | 50/3 | ODU-1 | 9.79 | 12 | | | |
| 13 | | | | 14 | 20/1 | EXIST RECEPTS | 0.72 |
| 15 | | | | 16 | 20/1 | EXIST RECEPTS | 0.72 |
| 17 | 50/3 | ODU-2 | 9.79 | 18 | 20/1 | EXIST RECEPTS | 0.72 |
| 19 | | | | 20 | 20/1 | EXIST RECEPTS | 0.72 |
| 21 | | | | 22 | 20/1 | EXIST RECEPTS | 0.72 |
| 23 | 20/1 | EXIST RECEPTS | 0.72 | 24 | 20/1 | EXIST RECEPTS | 0.36 |
| 25 | 20/1 | EXIST RECEPTS | 0.72 | 26 | 20/1 | EXIST RECEPTS | 0.54 |
| 27 | 20/1 | EXIST RECEPTS | 0.54 | 28 | 20/1 | EXIST RECEPTS | 0.72 |
| 29 | 20/1 | EXIST RECEPTS | 0.72 | 30 | 20/1 | EXIST RECEPTS | 1.08 |
| 31 | 20/1 | EXIST RECEPTS | 0.72 | 32 | 20/1 | EXIST RECEPTS | 0.90 |
| 33 | 20/1 | RECEPTS | 0.72 | 34 | 20/1 | RECEPTS | 0.36 |
| 35 | 20/1 | RECEPTS | 0.72 | 36 | 20/1 | RECEPTS | 0.36 |
| 37 | 20/1 | ACCESS CONTROL PANEL | 1.00 | 38 | 20/1 | WALL HEATER | 1.00 |
| 39 | 30/2 | NEMA L6-30R | 3.50 | 40 | 20/1 | SPARE | 0.00 |
| 41 | | | | 42 | 20/1 | SPARE | 0.00 |
| 43 | 30/2 | NEMA L6-30R | 3.50 | 44 | | SPACE ONLY | |
| 45 | | | | 46 | | SPACE ONLY | |
| 47 | | SPACE ONLY | | 48 | | SPACE ONLY | |
| 49 | | SPACE ONLY | | 50 | | SPACE ONLY | |
| 51 | | SPACE ONLY | | 52 | | SPACE ONLY | |
| 53 | | SPACE ONLY | | 54 | | SPACE ONLY | |
| 55 | | SPACE ONLY | | 56 | | SPACE ONLY | |
| 57 | | SPACE ONLY | | 58 | | SPACE ONLY | |
| 59 | | SPACE ONLY | | 60 | | SPACE ONLY | |
| 61 | | SPACE ONLY | | 62 | | SPACE ONLY | |
| 63 | | SPACE ONLY | | 64 | | SPACE ONLY | |
| 65 | | SPACE ONLY | | 66 | | SPACE ONLY | |
| 67 | | SPACE ONLY | | 68 | | SPACE ONLY | |
| 69 | | SPACE ONLY | | 70 | | SPACE ONLY | |
| 71 | | SPACE ONLY | | 72 | | SPACE ONLY | |
| 73 | | SPACE ONLY | | 74 | | SPACE ONLY | |
| 75 | | SPACE ONLY | | 76 | | SPACE ONLY | |
| 77 | | SPACE ONLY | | 78 | | SPACE ONLY | |
| 79 | | SPACE ONLY | | 80 | 30/3 | SURGE PROTECTOR | 0.00 |
| 81 | | SPACE ONLY | | 82 | | | |
| 83 | | SPACE ONLY | | 84 | | | |

| CONNECTED LOAD KVA | | DEMAND FACTOR | DEMAND LOAD KVA | AMPS |
|---|---|---|---|---|
| LIGHTS | 0.20 | 125% | 0.25 | 0.69 |
| RECEPTACLES | 14.94 | 100% | 14.94 | 41.47 |
| HEATING | 3.00 | 100% | 3.00 | 8.33 |
| LARGEST MOTOR | 0.00 | 125% | 0.00 | 0.00 |
| OTHER MOTORS | 19.58 | 100% | 19.58 | 54.35 |
| MISCELLANEOUS | 10.50 | 100% | 10.50 | 29.15 |
| KITCH. APPLIANCES | 1.00 | 65% | 0.65 | 1.80 |
| | 49.22 | | 48.92 | 135.79 |

PANEL D
LOCATION MECH 203
MOUNTING SURFACE
AIC 10,000
FED FROM MAIN SWBD

VOLTS 208 /120 3 PHASE, 4 WIRE, WYE
AMPS 225
MAIN BREAKER
GROUND BUS
PROVIDE SURGE PROTECTOR

| CCT NO. | CCT BRKR | DESCRIPTION | LOAD KVA | CCT NO. | CCT BRKR | DESCRIPTION | LOAD KVA |
|---|---|---|---|---|---|---|---|
| 1 | 20/1 | RECEPTS | 0.72 | 2 | 20/1 | RECEPTS | 0.72 |
| 3 | 20/1 | MICROWAVE | 1.00 | 4 | 20/1 | RECEPTS | 0.72 |
| 5 | 20/1 | REFRIG | 0.70 | 6 | 20/1 | RECEPTS | 0.72 |
| 7 | 20/1 | INSTAHOT | 1.00 | 8 | 20/1 | BOTTLE FILLER | 0.50 |
| 9 | 20/1 | DISHWASHER | 1.00 | 10 | 15/2 | IDU-30 | 0.05 |
| 11 | 20/1 | DISPOSAL | 1.00 | 12 | | | 0.00 |
| 13 | 20/1 | SPARE | 0.00 | 14 | 20/1 | SPARE | 0.00 |
| 15 | 20/1 | SPARE | 0.00 | 16 | 20/1 | SPARE | 0.00 |
| 17 | 20/1 | SPARE | 0.00 | 18 | 20/1 | SPARE | 0.00 |
| 19 | 20/1 | SPARE | 0.00 | 20 | 20/1 | SPARE | 0.00 |
| 21 | 20/1 | SPARE | 0.00 | 22 | 20/1 | SPARE | 0.00 |
| 23 | | SPACE | | 24 | | SPACE | |
| 25 | | SPACE | | 26 | | SPACE | |
| 27 | | SPACE | | 28 | | SPACE | |
| 29 | | SPACE | | 30 | | SPACE | |
| 31 | | SPACE | | 32 | | SPACE | |
| 33 | | SPACE | | 34 | | SPACE | |
| 35 | | SPACE | | 36 | | SPACE | |
| 37 | 100/3 | PANEL E | 15.84 | 38 | 30/3 | SURGE PROTECTOR | 0.00 |
| 39 | | | | 40 | | | |
| 41 | | | | 42 | | | |

| CONNECTED LOAD KVA | | DEMAND FACTOR | DEMAND LOAD KVA | AMPS |
|---|---|---|---|---|
| LIGHTS | 0.00 | 125% | 0.00 | 0.00 |
| RECEPTACLES | 18.72 | 100% | 18.72 | 51.96 |
| HEATING | 0.00 | 100% | 0.00 | 0.00 |
| LARGEST MOTOR | 0.00 | 125% | 0.00 | 0.00 |
| OTHER MOTORS | 0.05 | 100% | 0.05 | 0.14 |
| MISCELLANEOUS | 0.50 | 100% | 0.50 | 1.39 |
| KITCH. APPLIANCES | 4.70 | 65% | 3.06 | 8.48 |
| | 23.97 | | 22.33 | 61.97 |

PANEL E
LOCATION MECH 203
MOUNTING SURFACE
AIC 10,000
FED FROM PANEL D

VOLTS 208 /120 3 PHASE, 4 WIRE, WYE
AMPS 100
MAIN LUGS ONLY
GROUND BUS
PROVIDE SURGE PROTECTOR

| CCT NO. | CCT BRKR | DESCRIPTION | LOAD KVA | CCT NO. | CCT BRKR | DESCRIPTION | LOAD KVA |
|---|---|---|---|---|---|---|---|
| 1 | 20/1 | EXIST RECEPTS | 0.54 | 2 | 20/1 | EXIST RECEPTS | 0.72 |
| 3 | 20/1 | EXIST RECEPTS | 0.72 | 4 | 20/1 | EXIST RECEPTS | 0.72 |
| 5 | 20/1 | EXIST RECEPTS | 1.08 | 6 | 20/1 | EXIST RECEPTS | 1.08 |
| 7 | 20/1 | EXIST RECEPTS | 1.08 | 8 | 20/1 | EXIST RECEPTS | 0.72 |
| 9 | 20/1 | EXIST RECEPTS | 0.90 | 10 | 20/1 | EXIST RECEPTS | 0.72 |
| 11 | 20/1 | EXIST RECEPTS | 0.36 | 12 | 20/1 | EXIST RECEPTS | 0.90 |
| 13 | 20/1 | EXIST RECEPTS | 0.72 | 14 | 20/1 | EXIST RECEPTS | 0.36 |
| 15 | 20/1 | EXIST RECEPTS | 0.72 | 16 | 20/1 | EXIST RECEPTS | 1.08 |
| 17 | 20/1 | EXIST RECEPTS | 0.72 | 18 | 20/1 | EXIST RECEPTS | 0.54 |
| 19 | 20/1 | EXIST RECEPTS | 0.72 | 20 | 20/1 | EXIST RECEPTS | 0.72 |
| 21 | 20/1 | SPARE | 0.00 | 22 | 20/1 | EXIST RECEPTS | 0.72 |
| 23 | 20/1 | SPARE | 0.00 | 24 | 20/1 | SPARE | 0.00 |
| 25 | 20/1 | SPARE | 0.00 | 26 | 20/1 | SPARE | 0.00 |
| 27 | 20/1 | SPARE | 0.00 | 28 | 20/1 | SPARE | 0.00 |
| 29 | 20/1 | SPARE | 0.00 | 30 | 20/1 | SPARE | 0.00 |
| 31 | | SPACE ONLY | 0.00 | 32 | 20/1 | SPARE | 0.00 |
| 33 | | SPACE ONLY | 0.00 | 34 | | SPACE ONLY | |
| 35 | | SPACE ONLY | 0.00 | 36 | | SPACE ONLY | |
| 37 | | SPACE ONLY | 0.00 | 38 | 30/3 | SURGE PROTECTOR | 0.00 |
| 39 | | SPACE ONLY | 0.00 | 40 | | | |
| 41 | | SPACE ONLY | 0.00 | 42 | | | |

| CONNECTED LOAD KVA | | DEMAND FACTOR | DEMAND LOAD KVA | AMPS |
|---|---|---|---|---|
| LIGHTS | 0.00 | 125% | 0.00 | 0.00 |
| RECEPTACLES | 15.84 | 100% | 15.84 | 43.97 |
| HEATING | 0.00 | 100% | 0.00 | 0.00 |
| LARGEST MOTOR | 0.00 | 125% | 0.00 | 0.00 |
| OTHER MOTORS | 0.00 | 100% | 0.00 | 0.00 |
| MISCELLANEOUS | 0.00 | 100% | 0.00 | 0.00 |
| KITCH. APPLIANCES | 0.00 | 100% | 0.00 | 0.00 |
| | 15.84 | | 15.84 | 43.97 |

PANEL F
LOCATION MECH 122
MOUNTING SURFACE
AIC 10,000
FED FROM MAIN SWBD

VOLTS 208 /120 3 PHASE, 4 WIRE, WYE
AMPS 400
MAIN BREAKER
GROUND BUS
PROVIDE SURGE PROTECTOR

| CCT NO. | CCT BRKR | DESCRIPTION | LOAD KVA | CCT NO. | CCT BRKR | DESCRIPTION | LOAD KVA |
|---|---|---|---|---|---|---|---|
| 1 | 20/1 | RECEPTS | 0.54 | 2 | 20/1 | RECEPTS | 0.72 |
| 3 | 20/1 | RECEPTS | 0.72 | 4 | 20/1 | RECEPTS | 0.90 |
| 5 | 20/1 | RECEPTS | 0.36 | 6 | 20/1 | RECEPTS | 0.90 |
| 7 | 20/1 | RECEPTS | 0.72 | 8 | 20/1 | RECEPTS | 0.72 |
| 9 | 20/1 | RECEPTS | 0.72 | 10 | 20/1 | RECEPTS | 0.90 |
| 11 | 20/1 | RECEPTS | 0.90 | 12 | 20/1 | RECEPTS | 0.72 |
| 13 | 20/1 | RECEPTS | 1.08 | 14 | 20/1 | RECEPTS | 1.08 |
| 15 | 20/1 | RECEPTS | 0.90 | 16 | 20/1 | RECEPTS | 0.90 |
| 17 | 20/1 | RECEPTS | 0.90 | 18 | 20/1 | RECEPTS | 0.54 |
| 19 | 20/1 | RECEPTS | 1.08 | 20 | 20/1 | COPIER | 0.80 |
| 21 | 20/1 | RECEPTS | 0.90 | 22 | 20/1 | INSTAHOT | 1.00 |
| 23 | 20/1 | VENDING MACHINE | 0.50 | 24 | 20/1 | REFRIG | 0.70 |
| 25 | 20/1 | REFRIG | 0.70 | 26 | 20/1 | RECEPTS | 1.08 |
| 27 | 20/1 | REFRIG | 0.70 | 28 | 20/1 | REFRIG | 0.70 |
| 29 | 20/1 | RECEPTS | 0.18 | 30 | 20/1 | RECEPTS | 0.90 |
| 31 | 20/1 | DISHWASHER | 1.00 | 32 | 20/1 | RECEPTS | 0.72 |
| 33 | 20/1 | INSTAHOT | 1.00 | 34 | 20/1 | REFRIG | 0.70 |
| 35 | 20/1 | DISPOSAL | 1.00 | 36 | 20/1 | RECEPTS | 0.18 |
| 37 | 20/1 | REFRIG | 1.00 | 38 | 20/1 | INSTAHOT | 1.00 |
| 39 | 20/1 | RECEPTS | 0.18 | 40 | 20/1 | RECEPTS | 0.72 |
| 41 | 20/1 | INSTAHOT | 1.00 | 42 | 20/1 | RECEPTS | 0.72 |
| 43 | 20/1 | RECEPTS | 0.72 | 44 | 20/1 | RECEPTS | 1.08 |
| 45 | 20/1 | RECEPTS | 1.08 | 46 | 20/1 | RECEPTS | 0.90 |
| 47 | 20/1 | RECEPTS | 0.72 | 48 | 20/1 | RECEPTS | 0.54 |
| 49 | 20/1 | REFRIG | 0.70 | 50 | 20/1 | RECEPTS | 0.36 |
| 51 | 20/1 | RECEPTS | 0.72 | 52 | 20/1 | RECEPTS | 0.54 |
| 53 | 20/1 | MICROWAVE | 1.00 | 54 | 20/1 | RECEPTS | 0.90 |
| 55 | 20/1 | DISPOSAL | 1.00 | 56 | 20/1 | REFRIG | 0.70 |
| 57 | 20/1 | DISHWASHER | 1.00 | 58 | 20/1 | RECEPTS | 0.36 |
| 59 | 20/1 | INSTAHOT | 1.00 | 60 | 20/1 | INSTAHOT | 1.00 |
| 61 | 20/1 | RECEPTS | 0.72 | 62 | 20/1 | RECEPTS | 1.08 |
| 63 | 20/1 | RECEPTS | 1.08 | 64 | 20/1 | RECEPTS | 0.72 |
| 65 | 20/1 | RECEPTS | 0.72 | 66 | 20/1 | RECEPTS | 0.54 |
| 67 | 20/1 | RECEPTS | 0.72 | 68 | 20/1 | RECEPTS | 0.90 |
| 69 | 20/1 | RECEPTS | 0.72 | 70 | 20/1 | RECEPTS | 0.90 |
| 71 | 20/1 | RECEPTS | 0.72 | 72 | 20/1 | RECEPTS | 0.72 |
| 73 | 20/1 | SPARE | 0.00 | 74 | 100/3 | PANEL F1 | 19.01 |
| 75 | 20/1 | RECEPTS | 0.90 | 76 | | | |
| 77 | 20/1 | RECEPTS | 0.90 | 78 | | | |
| 79 | 20/1 | RECEPTS | 1.08 | 80 | 30/3 | SURGE PROTECTOR | |
| 81 | 20/1 | RECEPTS | 0.36 | 82 | | | |
| 83 | 20/1 | RECEPTS | 0.90 | 84 | | | |

| CONNECTED LOAD KVA | | DEMAND FACTOR | DEMAND LOAD KVA | AMPS |
|---|---|---|---|---|
| LIGHTS | 0.00 | 125% | 0.00 | 0.00 |
| RECEPTACLES | 42.30 | 100% | 42.30 | 117.41 |
| HEATING | 13.10 | 100% | 13.10 | 36.36 |
| LARGEST MOTOR | 0.00 | 125% | 0.00 | 0.00 |
| OTHER MOTORS | 5.11 | 100% | 5.11 | 14.17 |
| MISCELLANEOUS | 2.10 | 100% | 2.10 | 5.83 |
| KITCH. APPLIANCES | 16.90 | 100% | 16.90 | 46.91 |
| | 79.51 | | 79.51 | 220.68 |

PANEL F1
LOCATION MECH 122
MOUNTING SURFACE
AIC 10,000
FED FROM PANEL F

VOLTS 208 /120 3 PHASE, 4 WIRE, WYE
AMPS 100
MAIN LUGS ONLY
GROUND BUS

| CCT NO. | CCT BRKR | DESCRIPTION | LOAD KVA | CCT NO. | CCT BRKR | DESCRIPTION | LOAD KVA |
|---|---|---|---|---|---|---|---|
| 1 | 15/2 | BC-1 | 0.20 | 2 | 15/2 | BC-2 | 0.20 |
| 3 | | | | 4 | | | |
| 5 | 15/2 | SBC-1 | 0.20 | 6 | 15/2 | SBC-2 | 0.20 |
| 7 | | | | 8 | | | |
| 9 | 15/2 | DOAS-1 | 0.85 | 10 | 15/2 | DOAS-2 | 0.85 |
| 11 | | | | 12 | | | |
| 13 | 15/2 | DOAS-3 | 0.24 | 14 | 15/2 | IDU'S | 0.50 |
| 15 | | | | 16 | | | |
| 17 | 15/2 | IDU'S | 0.50 | 18 | 15/2 | IDU'S | 0.45 |
| 19 | | | | 20 | | | |
| 21 | 20/1 | HWCP-1 | 0.86 | 22 | 20/1 | SPARE | 0.00 |
| 23 | 20/1 | CP-1 | 0.86 | 24 | 20/1 | SPARE | 0.00 |
| 25 | 50/2 | DHWH-1 | 9.00 | 26 | 20/1 | SPARE | 0.00 |
| 27 | | | | 28 | 20/1 | SPARE | 0.00 |
| 29 | 25/2 | DHWH-2 | 4.10 | 30 | 20/1 | SPARE | 0.00 |
| 31 | | | | 32 | | SPACE ONLY | |
| 33 | 20/1 | SPARE | 0.00 | 34 | | SPACE ONLY | |
| 35 | 20/1 | SPARE | 0.00 | 36 | | SPACE ONLY | |
| 37 | 20/1 | SPARE | 0.00 | 38 | | SPACE ONLY | |
| 39 | 20/1 | SPARE | 0.00 | 40 | | SPACE ONLY | |
| 41 | 20/1 | SPARE | 0.00 | 42 | | SPACE ONLY | |

| CONNECTED LOAD KVA | | DEMAND FACTOR | DEMAND LOAD KVA | AMPS |
|---|---|---|---|---|
| LIGHTS | 0.00 | 125% | 0.00 | 0.00 |
| RECEPTACLES | 0.00 | 100% | 0.00 | 0.00 |
| HEATING | 13.10 | 100% | 13.10 | 36.36 |
| LARGEST MOTOR | 0.00 | 125% | 0.00 | 0.00 |
| OTHER MOTORS | 5.11 | 100% | 5.11 | 14.17 |
| MISCELLANEOUS | 0.80 | 100% | 0.80 | 2.22 |
| KITCH. APPLIANCES | 0.00 | 100% | 0.00 | 0.00 |
| | 19.01 | | 19.01 | 52.75 |

Rev Date Issue


TFWB ENGINEERS
Travis Fitzmaurice Wartelle Ballanger Engineers Inc.
1200 Westlake Ave. N., #1000
Seattle, WA 98109
p: 206.285.7228 | info@tfwb-eng.com


**SOUTH KING FIRE ADMINISTRATIVE BUILDING IMPROVEMENTS**

720 S 333rd Street
Federal Way, WA 98003

**24022**
Project #


**Weinstein A+U**
2200 Western Avenue, Suite 301
Seattle, WA 98121
206.443.8606
www.weinsteinau.com



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JURISDICTIONAL APPROVAL STAMP

**BID SET**
Issue

**7/18/25**
Issue Date

**PANEL SCHEDULES**
Sheet Title

**E701**


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