# DOT-200023 ODOT - EATON OUTPOST

5656 US-127 Eaton,  Ohio  45320

**PREPARED FOR:**

**Ohio Facilities Construction Commission**
**and**
**Ohio Department of Transportation**

**PREPARED BY:**


## JEROME M. SCOTT ARCHITECTS
1020 GOODALE BLVD.
COLUMBUS, OHIO 43212
(TEL) 614.225.9535

MECHANICAL-ELECTRICAL-PLUMBING-
FIRE PROTECTION ENGINEER

**Veregy**
855 Grandview Ave.
Columbus, Ohio 43215
TEL: 614.443.1178
FAX:614.443.1594

STRUCTURAL ENGINEER

**Paul J. Ford & Co.**
250 East Broad Street
Suite 600
Columbus, Ohio 43215
TEL: 614.221.6679
FAX: 614.488.4125

CIVIL ENGINEER

**Sands Decker CPS**
1495 Old Henderson Rd.
Columbus, Ohio 43220
TEL: 614.459.6992
FAX:614.459.6987

# ABBREVIATIONS

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A | | E | | HDWR | HARDWARE | | | SCN | SCREEN | WR | WATER RESISTANT / WASTE |
| | | (E) | EXISTING | HE | HORIZONTAL EXIT | O | | SCONC | SEALED CONCRETE | | RECEPTACLE |
| A | COMPRESSED AIR OUTLET | EA | EASTELEC. DUPLEX | HEX | HEXAGON | | | SCVP | SPECIAL COATING ON | WRB | WARDROBE |
| AB | ANCHOR BOLT | EA | EACH | HGT (HT) | HEIGHT | O | OUTLET | | VENEER PLASTER | WS | WOOD SCREWS / WATERSTOP |
| AC | ACOUSTIC CEILING / | EB | EXPANSION BOLT | HM | HOLLOW METAL | O2 | OXYGEN | SCW | SOLID CORE WOOD | WSP | WEATHERSTRIP |
| | ALTERNATING CURRENT | EE | EMER. ELEC. DUPLEX | HORIZ | HORIZONTAL | O2/CO2 | CARBOGEN | SD | SOAP DISPENSER / SOAP | WRS | WELDED RESILIENT SHEET |
| ACOUS | ACOUSTIC | EG | END GUARD | HP | HORSE POWER / HIGH | OC | ON CENTER | | DISH | WSCT | WAINSCOT |
| ACT | ACOUSTIC CEILING TILE | EIFS | EXTERIOR INSULATION & | | PRESSURE / HIGH POINT | OD | OUTSIDE DIAMETER (DIM) | SECT | SECTION | WT | WEIGHT |
| AD | AREA DRAIN | | FINISHING SYSTEM | HR | HOUR | OFCI | OWNER FURNISHED, | SF | SQUARE FEET | WWF | WOVEN WIRE FABRIC |
| ADD | ADDENDUM | EJ | EXPANSION JOINT | HS | HOOK STRIP / HIGH | | CONTRACTOR INSTALLED | SGFT | STRUCTURAL GLAZED FACING | WWM | WOVEN WIRE MESH |
| ADDL | ADDITIONAL | EJ | EXPANSION JOINT | | STRENGTH / HOOSF STOP | OFD | OVERFLOW DRAIN | | | | |
| ADJ | ADJUSTABLE / ADJACENT | ELS | EMERGENCY LIGHTING | | | OFF | OFFICE | SHR | SHOWER | | |
| AFF | ABOVE FINISH FLOOR | ELEC | ELECTRICAL | HSKG | HOUSEKEEPING | OFOI | OWNER FURNISHED, OWNER | SHT | SHEET | Y | |
| AGGR | AGGREGATE | ELEC | ELEVATOR / ELEVATION | HT | HEIGHT | | INSTALLED | SIM | SIMILAR | YD | YARD DRAIN |
| AHU | AIR HANDLER UNIT | ELEV | ELEVATOR | HTG | HEATING | OH | OVERHEAD / OVERHANG / | SK | SINK / SKETCH | | |
| ALUM | ALUMINUM | ELIM | ELIMINATE | HTR | HEATER | | OVAL HEAD | SLBB | SHORT LEGS BACK TO BACK | STRUCTURAL STEEL DESIGNATIONS: | |
| ALT | ALTERNATE / ALTERATION | ENAM | ENAMELED | HVAC | HEATING AND VENTILATING | OHS | OVAL HEAD SCREW | SLD | SEALED | | |
| AMP | AMPERES / AMPLIFIER | EP | ENTRY SYSTEM | HW | HOT WATER | OHWS | OVAL HEAD WOOD SCREW | SMP | SMOKE PARTITION | W | W SHAPE |
| ANOD | ANODIZED | EMER | EMERGENCY | HVAC | HEATING, VENTILATION, AIR | OLS | OVERHEAD LIGHT SWITCH | SMS | SHEET METAL SCREW(S) | S | S SHAPE |
| AP | ACCESS PANEL / ACOUSTIC | ENCL | ENCLOSURE | | CONDITIONING | OPER | OPERATING | SND | SANITARY NAPKIN DISPENSER | M | M SHAPE |
| | PANEL | ENGR | ENGINEER | HW | HOT WATER | OPNG | OPENING | SNT | SEALANT | MC | AMERICAN STANDARD CHANNEL |
| APPROX | APPROXIMATE(LY) | ENT | ENTRANCE | HWY | HIGHWAY | OPT | OPTIONAL | SNT | SANITARY NAPKIN | HP | HP CHANNEL |
| APPR | APPROVED / APPROPRIATE | EPCMU | EPOXY PAINTED CMU | HYD | HYDRANT | OR | OPERATING ROOM | SNR | SANITARY NAPKIN | L | ANGLE |
| ASP | ABOVE REFERENCE FLOOR | EPGWB | EPOXY PAINTED GWB | | | ORTHO | ORTHOPEDIC | | RECEPTACLE | WT | STRUCTURAL TEE CUT FROM W |
| ASP | ASPIRATOR | EPNT | EPOXY PAINT | | | OT | OCCUPATIONAL THERAPY | SP | STANDPIPE / SPRAY PLATE | | SHAPE |
| ASPH | ASPHALT | EPP | EQUIPMENT VP | I | | OZ | OUNCE | SPEC | SPECIFICATION / SPECIFIED | ST | STRUCTURAL TEE CUT FROM S |
| ASST | ASSISTANT | EQ | EQUAL / EARTHQUAKE | | | | | SPK | SPEAKER | | SHAPE |
| AST | ASTRAGAL | EQJ | EARTHQUAKE JOINT | ICU | INTENSIVE CARE UNIT | | | SPL | SPECIAL | | STRUCTURAL TEE CUT FROM M |
| ASSY | ASSEMBLY | EQUIP | EQUIPMENT | ID | INSIDE DIAMETER (DIM) | P | | SPR | SPRINKLER / SINGLE PLY ROOF | MT | SHAPE |
| AUTO | AUTOMATIC | ES | EMERGENCY SHOWER | ie | THAT IE | | | SQ(HD) | SQUARE (HEAD) | | |
| AUX | AUXILIARY | EST | ESTIMATE(D) | IE | INVERT ELEVATION | P (PNT) | PAINT | SRK | SERVICE SINK | PL | PLATE |
| AV | AUDIO-VISUAL | ET | ELAPSED TIME (CLOCK) | IG | INSULATED GLASS | PA | PUBLIC ADDRESS | ST | STREET / STEAM | TS | STRUCTURAL TUBING |
| AVE | AVENUE | ETC | ETCETERA | IMP | INSULATED METAL PANEL | PAR | PARAGRAPH / PARAPET | SST | STAINLESS STEEL | | |
| AVG | AVERAGE | ETERR | ELECTERRAZZO | IN | INCH | PASS | PASSENGER | STA | STATION | | |
| | | EW | EACH WAY | INCAND | INCANDESCENT | PAT | PATIENT | STG | STAND TRANSMISSION | | |
| B | | EWC | ELECTRIC WATER COOLER | INCIN | INCINERATOR | PATT | PATTERN(S) | | COEFFICIENT (CLASS) | | |
| | | EXAM | EXAMINATION / EXAMINATING | INCL | INCLUDE(ING) | PB | PANIC BAR / PUSH BUTTON | STD | STANDARD | | |
| BAL | BALANCE | EXC | EXCAVATED / EXCAVATION / | IND | INDUSTRIAL | PBD | PARTICLEBOARD | STF | STIFFENER | | |
| BC | BACK TO BACK | | EXCAVATE | INFO | INFORMATION | PCF | PRECAST | STL | STEEL | | |
| BCT | BOTTOM OF CURB | EXH | EXHAUST | INS | INSULATE | PCF | POUNDS PER CUBIC FOOT | STM | STEAM | | |
| BIT | BITUMINOUS | EXIST | EXISTING | INSUL | INSULATION | PCMU | PAINTED CONC. MASONRY | STOR | STORAGE | | |
| BL | BUILDING LINE | EXP | EXPOSED / EXPANSION | INT | INTERIOR / INTEGRAL (BASE) | PCONC | PAINTED CONCRETE | STR | STRAIGHT | | |
| BLDG | BUILDING | EXT | EXTERIOR | INTERM | INTERMEDIATE | PD | PEDESTAL | STRUC | STRUCTURAL | | |
| BLK | BLOCK | | | INV | INVERT | PERF | PERFORATE(D) | SUBFL | SUBFLOOR(ING) | | |
| BLKG | BLOCKING | F | FORMED FINISHES FOR CONCRETE: | IPS | ISOLATED POWER PANEL | PERIM | PERIMETER | SUP | SUPPLY | | |
| BLVD | BOULEVARD | F1 | ROUGH FORM FINISH | IRR | IRREGULAR | PERP | PERPENDICULAR | SUPP | SUPPORT / SUPPLEMENT(AL) | | |
| BM | BENCH MARK / BEAM | F2 | SMOOTH FORM FINISH | ISOL | ISOLATE | PF | PREFABRICATED (STRUC) | SURF | SURFACE | | |
| BOT | BOTTOM | F3 | TEXTURED FINISH | IV | INTRAVENOUS | PKG | PLATE GLASS | SURG | SURGERY / SURGICAL | | |
| BPC | BLOOD PRESSURE CUFF | F4 | RUBBED FINISH | | | PGBD | PEGBOARD | SUSP | SUSPENDED | | |
| BRG | BEARING | F5 | EXPOSED AGGREGATE FINISH | J | | PGWB | PAINTED GYPSUM WALL | SW | STAIN AND VARNISH | | |
| BRKT | BRACKET | FA | JANITOR | JAN | JANITOR | | BOARD | SYM | SYMMETRIC(AL) | | |
| BSMT | BASEMENT | FB | SAND BLAST FINISH | JT | JOINT | PH | PHASE / PAN HEAD | SYN | SYNTHETIC | | |
| BTU | BRITISH THERMAL UNIT | F7 | POLED FINISH | | | PHAR | PHARMACY | SYS | SYSTEM | | |
| BTW | BETWEEN | F | FAHRENHEIT | K | | PL | PLATE / PROPERTY LINE | S1S | SURFACED ONE SIDE | | |
| BULL | BULLETIN | F TO F | FACE TO FACE | | | PLAM | PLASTIC LAMINATE | S2S | SURFACED TWO SIDES | | |
| BUR | BUILT-UP ROOF(ING) | FA | FIRE ALARM | KD | KNOCKED DOWN / KILN DRIED | PLAS | PLASTER | S4S | SURFACED FOUR SIDES | | |
| BW | BOTTOM OF WALL | FAB | FABRICATE / FABRICATOR / | KIP | 1,000 POUNDS (KILOPOUNDS) | PLBG | PLUMBING | | | | |
| | | | FABRIC | KIT | KITCHEN | PLF | POUNDS PER LINEAR FOOT | T | | | |
| | | FAC | FACILITY | KO | KNOCK OUT | PLYWD | PLYWOOD | T | TOP / TREAD / TELEPHONE | | |
| C | | FB | FLAT BAR | KP | KICK PLATE | PNEU | PNEUMATIC | T&B | TOP AND BOTTOM | | |
| CAB | CABINET | FCU | FAN COIL UNIT | KSI | KIPS PER SQUARE INCH | PNL | PANEL(ING) | TB | TOWEL BAR | | |
| CAP | CAPACITY | FD | FLOOR DRAIN | KW | KILOWATT(S) | POL | POLISHED) | T/C | TOP OF CURB / TOP OF | | |
| CB | CATCH BASIN / CODE BLUE | FDN | FOUNDATION | | | PORT | PORTABLE | | CONCRETE | | |
| | CHALK BOARD | FDV | FIRE DEPT. VALVE | | | PP | PUSH PLATE | TEL | TELEPHONE | | |
| CC | CENTER TO CENTER | FDVC | FIRE DEPT. VALVE CABINET | | | PVP | PUSH-PULL | TEMP | TEMPERATURE / TEMPERED / | | |
| CCT | CLOSED CIRCUIT TRACK | FE | FIRE EXTINGUISHER | L | | PR | PAIR / PRINTER / | | TEMPORARY | | |
| CCTV | CLOSED CIRCUIT TV | FEC | FIRE EXTINGUISHER CABINET | | | | COMPUTER PRINTER | TERR | TERRAZZO | | |
| CCU | CORONARY CARE UNIT | FF | FACTORY FINISH(ED) | PREFAB | PREFABRICATED | TG | TEMPERED GLASS | | | | |
| CD | CEILING DIFFUSER / CUP | FG | FIBERGLASS | LAB | LABORATORY | PREFIN | PREFINISHED | T&G | TONGUE AND GROOVE | | |
| | DISPENSER | FH | FIRE HYDRANT / FUME HOOD / | LAM | LAMINATE | PRESS | PRESSURE | THB | THRESHOLD HARDBOARD | | |
| CEMPL | CEMENT PLASTER | | FLUSH HEAD / FLAT HEAD | LAV | LAVATORY | PROJ | PROJECT(ION) | THERMO | THERMOSTAT(IC) | | |
| CER | CERAMIC | FHC | FIRE HOSE CABINET | LB(S) | POUND(S) / LAG BOLT(S) | PROP | PROPERTY | THK | THICKNESS | | |
| CFCI | CONTRACTOR FURNISH | FHEC | FIRE HOSE AND EXTINGUISHER | LBR | LABEL | PROT | PROTECT(IVE) (ION) | THRES | THRESHOLD | | |
| CFM | CUBIC FEET/MINUTE | | CABINET | LBR | LUMBER | PSF | POUNDS PER SQUARE FOOT | TKBD | TACKBOARD | | |
| CFS | CUBIC FEET/SECOND | FI | FINISH | LF | LINEAL FOOT / LINEAR FEET | PSI | POUNDS PER SQUARE INCH | TKBD | TACK BOARD | | |
| CG | CORNER GUARD/ | FHMS | FLAT HEAD MACHINE SCREW | LH | LEFT HAND | PT | PRESSURE TREATED | TLT | TOILET | | |
| | CENTER OF GRAVITY | FHS | FLAT HEAD SCREW | LHR | LEFT HAND REVERSE | PTD | PAPER TOWEL DISPENSER | TOP | TOPPING | | |
| | | FHWS | FLAT HEAD WOOD SCREW | LIM | LINE ISOLATION MONITOR | PTD/R | COMBINATION PAPER TOWEL | TOS | TOP OF STEEL | | |
| CH | COAT HOOK | FIAC | FURNISHED AND INSTALLED | LIN | LINEAR | | DISPENSER & RECEPTACLE | TPD | TOILET PAPER DISPENSER | | |
| CHAN | CHANNEL | | BY CONTRACTOR | LINAC | LINEAR ACCELERATOR | PTN | PARTITION | TR | TREAD | | |
| CHAM | CHAMFER | FIO | FURNISHED AND INSTALLED | LKR | LOCKER | PTR | PAPER TOWEL RECEPTACLE | TRD | TREATED | | |
| CHEM | CHEMICAL / CHEMISTRY | | FINISHED) | LLBB | LONG LEG BACK TO BACK | PVC | POLYVINYL CHLORIDE | TRK | TRACK | | |
| CI | CAST IRON / CURB INLET | FIO | FURNISHED AND INSTALLED | | | PVMT | PAVEMENT | TSF | TROWELED SEAMLESS FLOORING | | |
| CIP | CAST-IN-PLACE | | BY OWNER | LLV | LONG LEG VERTICAL | PWC | PROTECTIVE WALL COVERING | TS | TOP OF SLAB (EXTERIOR) | | |
| | (CONCRETE) | FIV | FURNISHED AND INSTALLED | L&P | LATH AND PLASTER | PWR | POWER | T/ST | TOP OF STEEL | | |
| CJ | CONTROL JOINT | | BY VENDOR | LP | LOW POINT / LOW PRESSURE | PYP | PAINTED VENEER PLASTER | TV | TELEVISION | | |
| CL | CENTER LINE / CLEARANCE / | FL | FLOOR / FLOOR LINE | LT | LIGHT | | | TW | TOP OF WALL | | |
| | CLOSER | FLASH | FLASHING | LTG | LIGHTING | Q | | TYP | TYPICAL | | |
| CLG | CEILING | FLEX | FLEXIBLE | LW | LIGHTWEIGHT | QT | QUARRY TILE | | | | |
| CLR | CLEAR | FLR | FLOOR(ING) | | | QTR | QUARTER | U | | | |
| CMT | CERAMIC MOSAIC TILE | FLUOR | FLUORESCENT | | | QUAN | QUANTITY | UNFORMED FINISHES FOR CONCRETE: | | | |
| CMU | CONCRETE MASONRY UNIT | FOS | FACE OF STUD | M | | | | U1 | SCREEDED | | |
| CNTR | COUNTER | FP | FIREPROOF(ING) / FULL | | | R | | U2 | SCRATCHED | | |
| CO | CLEAN OUT | | PENETRATION | M | MONITOR (OUTLET) | | | U3 | FLOAT | | |
| CO2 | CARBON DIOXIDE | FPM | FEET PER MINUTE | MACH | MACHINE | R | RADIUS / RISER / RESILIENT | U4 | TROWELED | | |
| COL | COLUMN | FPS | FEET PER SECOND | MAINT | MAINTENANCE | RAD | RADIATOR / RADIATION / | U46 | TROWELED AND BROOMED | | |
| COMM | COMMUNICATION / COMBUSTIBLE | FRAM(G) | FRAMING | MAS | MASONRY | | RADIUS | U5 | BROOM | | |
| COMP | COMPRESS (ED) / (ION) | FREQ | FREQUENCY | MAT | MATERIAL | RB | RESILIENT BASE | U5A | LIGHT BROOM | | |
| | COMPACT (OR) (ED) (IBLE) / | FRT | FIRE RETARDANT TREATED | MAX | MAXIMUM | RCWY | RACEWAY | U6 | BELT | | |
| | COMPOSITE (ION) | FS | FOOT / FOOT / FULL SIZE | MB | MACHINE BOLT / MARKER | RD | ROOF DRAIN / ROAD | U7 | DRY SHAKE | | |
| CONC | CONCRETE | FTG | FOOTING | MBL | MARBLE | REC | RECEIVING | U8 | EXPOSED AGGREGATE | | |
| COND | CONDUIT / CONDITION | FURR | FURRING | MBR | MEMBER | RECIRC | RECIRCULATION | UC | UNDER COUNTER | | |
| CONF | CONFERENCE | FUT | FUTURE; WORK TO BE | MC | MEDICINE CABINET | RECT | RECTANGULAR | UG | UNDERGROUND | | |
| CONST | CONSTRUCTION | | PERFORMED LATER | MCPT | MODULAR CPT (CARPET TILE) | RECVD | RECEIVED | UH | UNIT HEATER | | |
| CONT | CONTINUE / CONTINUOUS | FXD | FIXED | MDF | MEDIUM DENSITY FIBERBOARD | REF | REFERENCE / REFRIGERATOR | UL | UNDERWRITERS LABORATORIES | | |
| CONTR | CONTRACTOR | | | MDO | MEDIUM DENSITY OVERLAY | REFR | REFRIGERATOR | UNFIN | UNFINISHED | | |
| CONV | CONVECTOR | | | MEDH | MEDIUM HARD | REG | REGULATOR / REGLET / | UNO | UNLESS NOTED OTHERWISE | | |
| COORD | COORDINATE | G | | MED | MEDICAL / MEDIUM | | REGISTER | UR | URINAL | | |
| CORR | CORRIDOR | GA | GAUGE / GAGE | MET | METAL | REINF | REINFORCE(D) (ING) (MENT) | UT | ULTRASONIC TEST(ING) | | |
| CPT | CARPET | GL | GLASS | MEZZ | MEZZANINE | RESIL | RESILIENT | UTIL | UTILITY | | |
| CR | COLD ROLLED / | GLC | GLASS CLOTH | MFG | MANUFACTURING | REQ'D | REQUIRE(D) | UV | ULTRAVIOLET | | |
| | CHEMICAL RESISTIVE | WG | TEMPERED GLASS | MFR | MANUFACTURER | RET | RETURN | | | | |
| CRT | CATHODE RAY TUBE | GL | LAMINATED GLASS | MH | MANHOLE | REV | REVERSED / REVISED / | | | | |
| CSK | COUNTERSINK / COUNTERSUNK | IG | INSULATED GLASS | MICA | MICA | | REVISION | V | | | |
| CSWK | CASEWORK | KG | LEAD GLASS | MIC | MICROPHONE | RF | RADIO FREQUENCY | V | VOLTS / VACUUM (OUTLET) | | |
| CT | CERAMIC TILE | SG | SPANDREL GLASS | MIN | MINIMUM | RFG | ROOFING | VAC | VACUUM | | |
| CTR | CENTER | LG | LAMINATED GLASS | MIR | MIRROR | RH | ROUND HEAD / RIGHT HAND | VAP | VAPOR | | |
| CU | CUBIC | G | GAS OUTLET / GROUND (JACK) | MISC | MISCELLANEOUS | RHMS | ROUND HEAD MACHINE SCREW | VAR | VARIABLE / VARNISH / VARIES | | |
| DW | COLD WATER | GA | GAUGE / GAGE | MK | MARK / MARKER | RHR | RIGHT HAND REVERSE | VAV | VARIABLE AIR VOLUME | | |
| CY | CUBIC YARD | GAL | GALLON | MKB | MASONRY OPENING | RHS | ROUND HEAD SCREW | VB | VACUUM BREAKER / VAPOR | | |
| | | GALV | GALVANIZED | MKO | MODULAR / MODIFIED / | RHWS | ROUND HEAD WOOD SCREW | | BARRIER | | |
| | | GB | GRAB BAR | MOD | MODIFICATION / MODEL | RLS | RECESSED LIGHT SWITCH | VBS | VACUUM VOLUME SLIDE | | |
| D | | GC | GENERAL CONTRACTOR | | | RM | ROOM | | WAGON | | |
| | | GEN | GENERAL / GENERATOR | MP | MOP PLATE | RND | ROUND | VENT | VENTILATION / VENTILATE / | | |
| D | DEEP | GFRC | GLASS FIBER REINFORCED | MRI | MAGNETIC RESONANCE | RO | ROUGH OPENING | | VENTILATOR | | |
| d | PENNY (NAILS) | | CONCRETE | | IMAGER | ROW | RIGHT OF WAY | VEN | VENEER | | |
| db | DECIBEL | GFRP | GLASS FIBER REINFORCED | MS | MACHINE SCREW | RPM | REVOLUTIONS PER MINUTE | VERT | VERTICAL | | |
| DC | DIRECT CURRENT | | PLASTER | MSTD | MOUNTED) | RS | RESILIENT SHEET | VEST | VESTIBULE | | |
| DBL | DOUBLE | GL | GLASS / GLAZING / GLAZED | MTG | MOUNTING / MEETING | R&S | ROD & SHELF | VIB | VIBRATION | | |
| DE | DOUBLE EGRESS | GLAM | GLUE LAMINATED | MTR | MOTOR | RT | RESILIENT TILE | VOL | VOLUME | | |
| DEG | DEGREE(S) | GMU | GLAZED MASONRY UNIT | MUL | MULLION | RTN | RETURN | VP | VENEER PLASTER | | |
| DEM | DEMOLISH / DEMOLITION | GND | GROUND | | | RWL | RAIN WATER LEADER | VWC | VINYL WALL COVERING | | |
| DEPT | DEPARTMENT | GOVT | GOVERNMENT | N | | | | | | | |
| DF | DRINKING FOUNTAIN | GPH | GALLONS PER HOUR | | | | | | | | |
| DET | DETAIL | GPM | GALLONS PER MINUTE | (N) | NEW | S | | W | | | |
| DIA | DIAMETER | GPS | GALLONS PER SECOND | N | NORTH | | | | | | |
| DIAG | DIAGONAL | GR | GRANITE | N2 | NITROGEN (OUTLET) | S | SOUTH / SUPPORT | W | WATTS | | |
| DIFF | DIFFUSER | GWB | GYPSUM WALLBOARD | N2O | NITROUS OXIDE (OUTLET) | SAB | SOUND ABSORPTION BATT | W | WIDE /WEST /WASTE /WATER | | |
| DIM | DIMENSION | GYP | GYPSUM | NAS | NURSE ASSIST SWITCH | SAD | SOUND ABSORPTION | W | WITH | | |
| DIR | DIRECTION(S) / DIRECTORY | | | NCU | NURSE CALL UNIT | SBD | SCRUB BRUSH DISPENSER | WAIN | WAINSCOT | | |
| DISC | DISCONNECT | | | NEG | NEGATIVE | SC | SOLID CORE / SPECIAL COATING | WB | WHITEBOARD | | |
| DISP | DISPENSER | H | | NIC | NOT IN CONTRACT | SCCMU | SPECIAL COATING ON | WC | WATER CLOSET | | |
| DIV | DIVISION / DIVIDER | H | HEIGHT / HIGH | NL | NIGHT LIGHT | | CONCRETE MASONRY | WCVG | WALL COVERING | | |
| DN | DOWN | H2 | HYDROGEN | NO or # | NUMBER | SCCONC | SPECIAL COATING ON | WD | WOOD | | |
| DO | DITTO / DOOR OPENING | HB | HOSE BIBB / HARDBOARD | NOM | NOMINAL | | CONCRETE | WDW | WINDOW | | |
| DR | DOOR / DRAIN | HC | HANDICAP / HOLLOW CORE | NONCOM | NONCOMBUSTIBLE | SCD | SPECIAL COVER DISPENSER | WF | WIDE FLANGE (STEEL) | | |
| DS | DOWNSPOUT | HCW | HOLLOW CORE WOOD | NRC | NOISE REDUCTION | SCGWB | SPECIAL COATING ON | WG | WIRE GLASS / WALL GRILL | | |
| DW | DISTILLED WATER | HDBD | HARDBOARD | | COEFFICIENT | | GYPSUM WALLBOARD | WL | WATERLINE | | |
| DWG | DRAWING | HDW | HARDWARE | NS | NON SLIP | SCH | SCHOOL | WSO | WALL STOP | | |
| DWR | DRAWER | HDWD | HARDWOOD | NTS | NOT TO SCALE | SCHED | SCHEDULE | WP | WATERPROOF(ING) / WORK | | |
| | | | | | | | | | POINT / WEATHER PROOF | | |

# SYMBOL LEGEND

- WORK POINT/ SPOT ELEVATION
- CODED NOTE (X)
- DOOR & FRAME INDICATOR. SEE DOOR SCHEDULE (XXX / A)
- WINDOW INDICATOR. SEE WINDOW SCHEDULE (W-X)
- COLUMN LINE (X)
- INTERIOR WALL TYPE INDICATOR. (PX)
- REVISION (X)
- SECTION OR ELEVATION REFERENCED TO DRAWINGS (X / A-XXX)
- DETAIL REFERENCED TO DRAWINGS (X / A-XXX)
- INTERIOR ELEVATION REFERENCED TO DRAWINGS (X / A-XXX)
- FLOOR ELEVATION (FIRST FLOOR 100'-0")

# LOCATION MAP

5656 US-127 Eaton, Ohio 45320

# GENERAL NOTES

1. ALL DIMENSIONS MUST BE FIELD VERIFIED AND THE A/E MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE DRAWINGS.
2. ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISH UNLESS NOTED OTHERWISE. DIMENSIONS IN ROOMS WITH TILE WALLS ARE TO FACE OF BACKER BOARD UNLESS NOTED OTHERWISE.
3. ALL EXTERIOR DIMENSIONS ARE TO FACE OF FOUNDATION UNLESS NOTED OTHERWISE.
4. COORDINATE LOCATIONS AND/OR ELEVATIONS OF FLOOR DRAINS, REGISTERS, GRILLES, LOUVERS, CONVECTORS, CABINET UNIT HEATERS, PANELS, ETC. WITH MECHANICAL AND ELECTRICAL CONTRACTORS.
5. ALL DIMENSIONS AND TIE-INS GOVERNED BY EXISTING CONDITIONS ARE APPROXIMATE AND ARE NOT GUARANTEED TO BE CORRECT. ALL SUCH DIMENSIONS AND CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTORS PRIOR TO THE PREPARATION OF SHOP DRAWINGS AND BEFORE PROCEEDING WITH ANY WORK. THE FIRST SUBMITTAL OF SHOP DRAWINGS MUST CONTAIN CORRECT CONDITIONS AND DIMENSIONS OBTAINED FROM THE FIELD. IF CONDITIONS AND DIMENSIONS VARY GREATLY FROM THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE A/E BEFORE PREPARATION OF SHOP DRAWINGS, AND BEFORE PROCEEDING WITH WORK.
6. COORDINATE FLOOR AND WALL PENETRATIONS WITH ALL TRADES INVOLVED. PROVIDE STEEL FRAMES, SLEEVES, LINTELS, AND SIMILAR ENCLOSURES REQUIRED AROUND PENETRATIONS IN MASONRY OR CONCRETE WALLS AND FLOORS. FIRE SEAL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION WITH UL MATERIALS.
7. CONTRACTOR SHALL COORDINATE AND OBTAIN ALL NECESSARY PERMITS, APPROVALS AND GUIDELINES FROM GOVERNING REGULATORY AGENCIES. CONSTRUCTION WORK WILL NOT PROCEED UNTIL ALL REQUIRED REGULATORY APPROVALS HAVE BEEN ISSUED. BUILDING PERMIT WILL BE OBTAINED BY THE OWNER.
8. CONSTRUCT PARTITIONS IN ACCORDANCE WITH PLANS, PARTITION TYPES, SPECIFICATIONS, AND OTHER REQUIREMENTS OF THE CONTRACT DOCUMENTS. ALSO COORDINATE WITH OTHER CONTRACTORS' REQUIREMENTS.
9. IF EQUIPMENT IS RECESSED IN A FIRE-RESISTANT RATED WALL, MAINTAIN THE RATING OF THE WALL AROUND THE RECESSED EQUIPMENT IN ALL CASES.
10. CEILING HEIGHT(S) NOTED ON DRAWINGS FOR ROOMS OR AREAS IS THE HEIGHT FROM FINISHED FLOOR SURFACE TO FINISHED CEILING. WHERE NO FINISHED CEILING IS CALLED FOR, THE CEILING HEIGHT(S) NOTED IS THE MINIMUM REQUIRED HEADROOM CLEARANCE FROM FINISHED FLOOR TO UNDERSIDE (LOW POINT) OF PIPES, DUCTS, CONDUITS, LIGHT FIXTURES, AND SIMILAR EXPOSED OR SUSPENDED ITEMS OR EQUIPMENT.
11. PROTECT ALL CONSTRUCTION, UTILITIES, AND FACILITIES. ANY AND ALL DAMAGE DURING CONSTRUCTION AND/OR DEMOLITION SHALL BE REPAIRED TO MATCH THE EXISTING AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE WILL BE RESPONSIBLE FOR THE COST OF REPAIR.
12. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE, AND TO ENSURE THE STABILITY OF THE BUILDING AND ITS COMPONENT PARTS, AND THE ADEQUACY OF TEMPORARY OR INCOMPLETE CONNECTIONS DURING ERECTION. THIS INCLUDES THE ADDITION OF ANY SHORING, SHEETING, TEMPORARY GUYS, BRACING OR TIE DOWNS THAT MIGHT BE NECESSARY. SUCH MATERIAL IS NOT SHOWN ON THE DRAWINGS. IF APPLIED, THEY SHALL BE REMOVED AS CONDITIONS PERMIT, AND SHALL REMAIN THE CONTRACTOR'S PROPERTY. THE ARCHITECT / ENGINEER HAS NO EXPERTISE IN AND TAKES NO RESPONSIBILITY FOR, CONSTRUCTION MEANS AND METHODS OR JOB SITE SAFETY DURING CONSTRUCTION. PROCESSING SHOP AND / OR APPROVING SUBMITTALS MADE BY THE CONTRACTOR WHICH MAY CONTAIN INFORMATION RELATED TO CONSTRUCTION METHODS OR SAFETY ISSUES, OR PARTICIPATION IN MEETINGS WHERE SUCH ISSUES MIGHT BE DISCUSSED, SHALL NOT BE CONSTRUED AS VOLUNTARY ASSUMPTION BY THE ENGINEER OF ANY RESPONSIBILITY FOR SAFETY PROCEDURES.
13. IT IS SOLELY THE RESPONSIBILITY OF EACH CONTRACTOR TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. THE ARCHITECT / ENGINEER IS NOT ENGAGED IN, AND DOES NOT SUPERVISE CONSTRUCTION.
14. EQUIPMENT LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE THIS INFORMATION WITH THE INVOLVED TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS IS TO BE BORNE BY THE APPROPRIATE CONTRACTOR REQUIRING THE REVISION.
15. GOVERNING CODE: OHIO BUILDING CODE 2017.

# CODE INFORMATION

**APPLICABLE BUILDING CODE:**
2017 OHIO BUILDING CODE
2017 OHIO MECHANICAL CODE
2017 OHIO PLUMBING CODE
2017 ICC A117.1
NFPA 70: NATIONAL ELECTRIC CODE
ASHRAE 90.1

**USE GROUPS:**
B – Business
S2 – Storage

**SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY:**
406.4 Public Parking Garages
404.4.6 Mixed Occupancy Separation per OBC 508.1

**BUILDING HEIGHT:** 29'-6" (40' Allowable)

**NUMBER OF STORIES:** 1 (2 Stories Allowable)

**BUILDING AREA:**
Use Group B – 726 sf. / 9,000 sf. Allowable
Use Group S2 – 8,678 sf. / 13,500 sf. Allowable
726 sf. / (726 sf. + 8,678 sf.) = .077
Use Group B = 7.7% of Overall Floor Area
7.7% < 10% - Use Group B = Accessory Occupancy (508.2.3)
508.2.4 – No separation is required between Accessory Occupancies and the Main Occupancy.

**CONSTRUCTION TYPE:** VB

| | |
|---|---|
| Primary Structural Frame | 0 HR |
| Exterior Bearing Walls | 0 HR |
| Interior Bearing Walls | 0 HR |
| Non-Bearing Walls + Partitions | 0 HR |
| Floor Construction | 0 HR |
| Roof Construction | 0 HR |

**FIRE-RESISTANCE OF EXTERIOR WALLS BASED ON SEPARATION DISTANCE:**
Existing storage shed to remain: Construction Type VB, Use Group S-2
Table 602 – 10 ≤ x ≤ 30 = 0 HR
x ≥ 30 = 0 HR

**INTERIOR FINISHES:**
Table 803.11 = Class B (Most Restrictive)

**FIRE PROTECTION SYSTEMS:**
903.2.10 – Area does not exceed 12,000 sf. and is not located beneath other groups. Stored vehicles do not meet definition of commercial motor vehicles.

**FIRE SUPPRESSION:** Not Required

**FIRE ALARM:** Not Required
907.2.2 Group B – Occupant Load < 100

**OCCUPANT LOAD:**
Use Group B - 726/100 = 6
Use Group S2 - 8,678/200 = 42

TOTAL CALCULATED: 48
ACTUAL OCCUPANT LOAD: 12

**MEANS OF EGRESS:**
1006.3.2. Max Common Path of Egress – 75 ft.
1017.2 Exit Access Travel Distance – 200 ft. (B – Most Restrictive)

**PLUMBING FIXTURE REQUIREMENTS:**
Use Group B requires:
1 Water Closet per 50 Occupants (8/50) = .16 male / .16 female
1 Lavatory per 80 Occupants (8/80) = .1
1 Drinking Fountain per 100 Occupants (8/100) = .08
0 Service Sink
*Per Section 410 of the Ohio Plumbing Code, business occupancies with an occupant load of 15 or fewer, service sinks shall not be required.

Use Group S2 requires:
1 Water Closet per 100 Occupants (18/100) = .18 male / .18 female
1 Lavatory per 100 Occupants (18/100) = .01
1 Drinking Fountain per 1000 Occupants (18/100) = .18
1 Service Sink

Cumulative Building Requirement
Water Closets (.16+.18 = .34) = 1 male/1 female required
*Per OPC 2902.2, Exception 2: Separate facilities shall not be required in structures or tenant spaces with a total occupant load of 15 or fewer.
*Per Section 410 of the Ohio Plumbing Code, where water dispensers are provided, drinking fountains shall not be required.
1 Service Sink

# SHEET INDEX

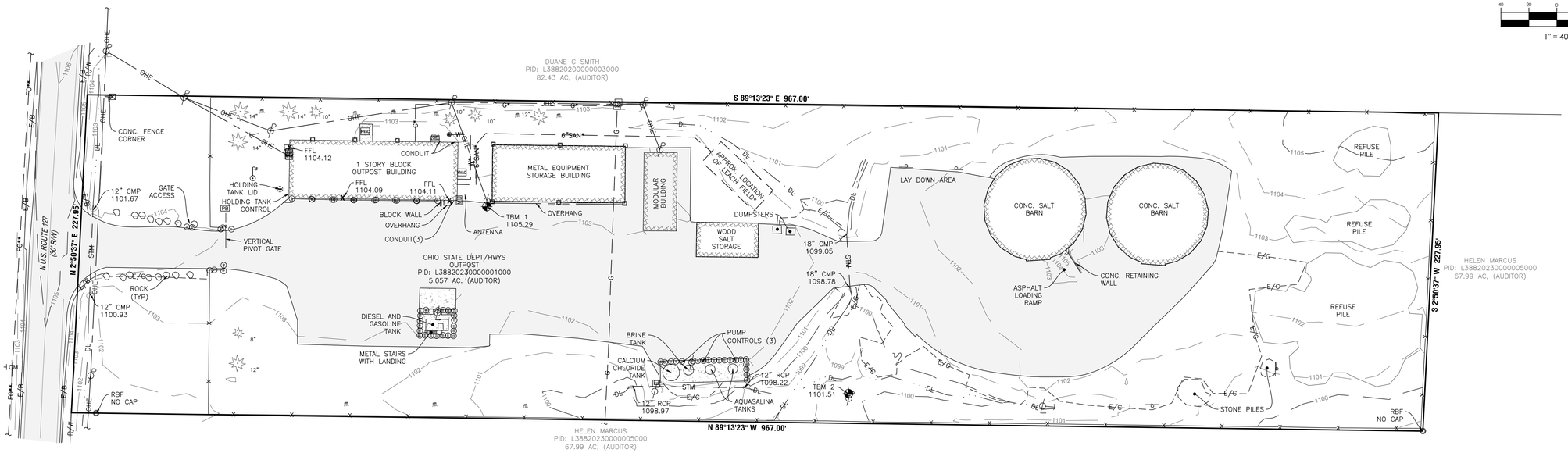

COVER SHEET
INDEX SHEET

**SITE AND SITE ACCESSORIES:**

C-100 EXISTING SITE SURVEY
C-200 SITE DEMOLITION PLAN
C-300 SITE DIMENSION PLAN
C-400 SITE GRADING & STORM WATER PLAN
C-401 STORM SEWER OUTLET PLAN & PROFILES
C-500 GENERAL NOTES & SITE DETAILS
C-501 SITE DETAILS (CONT.)
PSU PLUMBING SITE UTILITY PLAN
ESU ELECTRICAL SITE UTILITY PLAN
TSU TECHNOLOGY SITE UTILITY PLAN
SP-A-001 EXISTING BUILDING DEMOLITION PLAN

**TRUCK STORAGE BUILDING:**

A-CODE CODE PLAN
A-100 FIRST FLOOR PLAN
A-101 ROOF PLAN
A-200 EXTERIOR ELEVATIONS
A-300 SECTIONS
A-400 ENLARGED FLOOR PLAN
A




NORTH

*GRAPHIC SCALE*

40 20 0 40

1" = 40'

## *LEGEND*

- PROPERTY LINE
- R/W — RIGHT-OF-WAY
- STM — STORM LINE
- SAN — SANITARY SEWER
- W — WATER LINE
- G — GAS LINE
- OHE — OVERHEAD ELECTRIC LINE
- E/G — EDGE OF GRAVEL
- E/B — EDGE OF BERM
- FO — UNDERGROUND FIBER OPTIC LINE
- BARBED WIRE FENCE
- DL — DITCH LINE
- HOLDING TANK
- WATER VALVE
- GM — GAS METER
- GAS PUMP
- LIGHT POLE
- POWER POLE
- GUY WIRE
- CM — COMMUNICATIONS MARKER
- HVAC — HVAC UNIT
- EM — ELECTRIC METER
- EB — ELECTRIC BOX
- GEN — GENERATOR
- MB — MAILBOX
- CONIFEROUS TREE
- TREE STUMP
- BOLLARD
- POST
- SIGN
- FLAG POLE
- X — FINISHED FLOOR
- BENCHMARK
- IRON PIN FOUND
- CONCRETE
- ASPHALT
- BUILDING

## *ABBREVIATIONS*

| | |
|---|---|
| CMP | CORRUGATED METAL PIPE |
| SAN | SANITARY |
| STM | STORM |
| FFL | FINISHED FLOOR |
| TBM | TEMPORARY BENCHMARK |
| IPF | IRON PIN FOUND |
| RBF | REBAR FOUND |

## *HORIZONTAL REFERENCE BASIS OF BEARINGS*

BEARINGS ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM – OHIO SOUTH ZONE (NAD83) BY GPS OBSERVATION, REFERENCED TO THE ODOT VRS NETWORK.

## *BENCHMARK REFERENCE*

ELEVATIONS DEPICTED ON THIS SURVEY ARE REFERENCED TO THE NAVD88 VERTICAL DATUM BY GPS OBSERVATIONS TO THE ODOT VRS RTK NETWORK.

## *BENCHMARKS*

TBM 1
ELEVATION = 1105.29
BENCH TIE DRIVEN INTO THE SOUTH SIDE OF A POWER POLE LOCATED NEXT TO THE SOUTHWEST CORNER OF METAL EQUIPMENT STORAGE BUILDING.

TBM 2
ELEVATION = 1101.51
MAG NAIL SET IN THE NORTH SIDE OF A POWER POLE LOCATED ON THE SOUTH SIDE OF THE PROPERTY ALSO BEING LOCATED ±75 FEET EAST OF THE AQUASALINA TANK

## *SURVEYOR'S NOTES*

– BOUNDARY LINES ARE DEPICTED FROM RECORD LINES FOUND IN REFERENCES HEREON RECORDED AT THE PREBLE COUNTY RECORDER'S OFFICE AND DOES NOT REFLECT A BOUNDARY SURVEY PREPARED BY SANDS DECKER.

– FEMA INFORMATION
PANEL: 39135C0135D
EFFECTIVE DATE: MARCH 2, 2010
ZONE X: AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

## *UTILITIES*

EXISTING UTILITIES: THE INFORMATION SHOWN CONCERNING EXISTING UTILITIES IS APPROXIMATE. THE LOCATION, SIZES, AND OTHER INFORMATION IS ONLY AS ACCURATE AS THE INFORMATION PROVIDED BY THE OWNERS OF THE UTILITY COMPANY. THIS INFORMATION IS NOT REPRESENTED, WARRANTED, OR GUARANTEED TO BE COMPLETE OR ACCURATE.

THE FOLLOWING UTILITY OWNERS WERE CONTACTED AS LISTED BY OUPS CONFIRMATION TICKET A121502021:

CHARTER COMMUNICATIONS
(MIKE BATH, CONSTRUCTION SUPERVISOR)
1-614-827-7974

CENTURYLINK
(CHRIS STRAYER, LEAD PROJECT MNGR.)
1-303-886-1299

DARKE RURAL ELECTRIC
1-937-548-4114

AES – FORMERLY DAYTON POWER & LIGHT
1-800-424-5578

INDEPENDENTS FIBER NETWORK
1-800-634-4032

CENTERPOINT ENERGY
1-800-227-1376

*DENOTES THE UTILITY LINE IS DRAWN FROM STATE OF OHIO HIGHWAY OUTPOST BUILDING PLOT PLAN (1963)
**DENOTES THE UTILITY LINE IS DRAWN FROM GIS PLANS PROVIDED BY CENTURY LINK OUPS RESPONSE

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JMSA ARCHITECTURE

**Jerome M. Scott Architects**
1020 Goodale Blvd
Columbus, Ohio
43212

STATE OF OHIO
GLENN E. DECKER
57924
REGISTERED
PROFESSIONAL ENGINEER

Registered Engineer — 11-12-2021 Date

DOT-200023
ODOT - EATON
OUTPOST

5656 US-127 Eaton, Ohio 45320

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SHEET TITLE

**EXISTING SITE SURVEY**

C100

SD PROJECT NO. 4250

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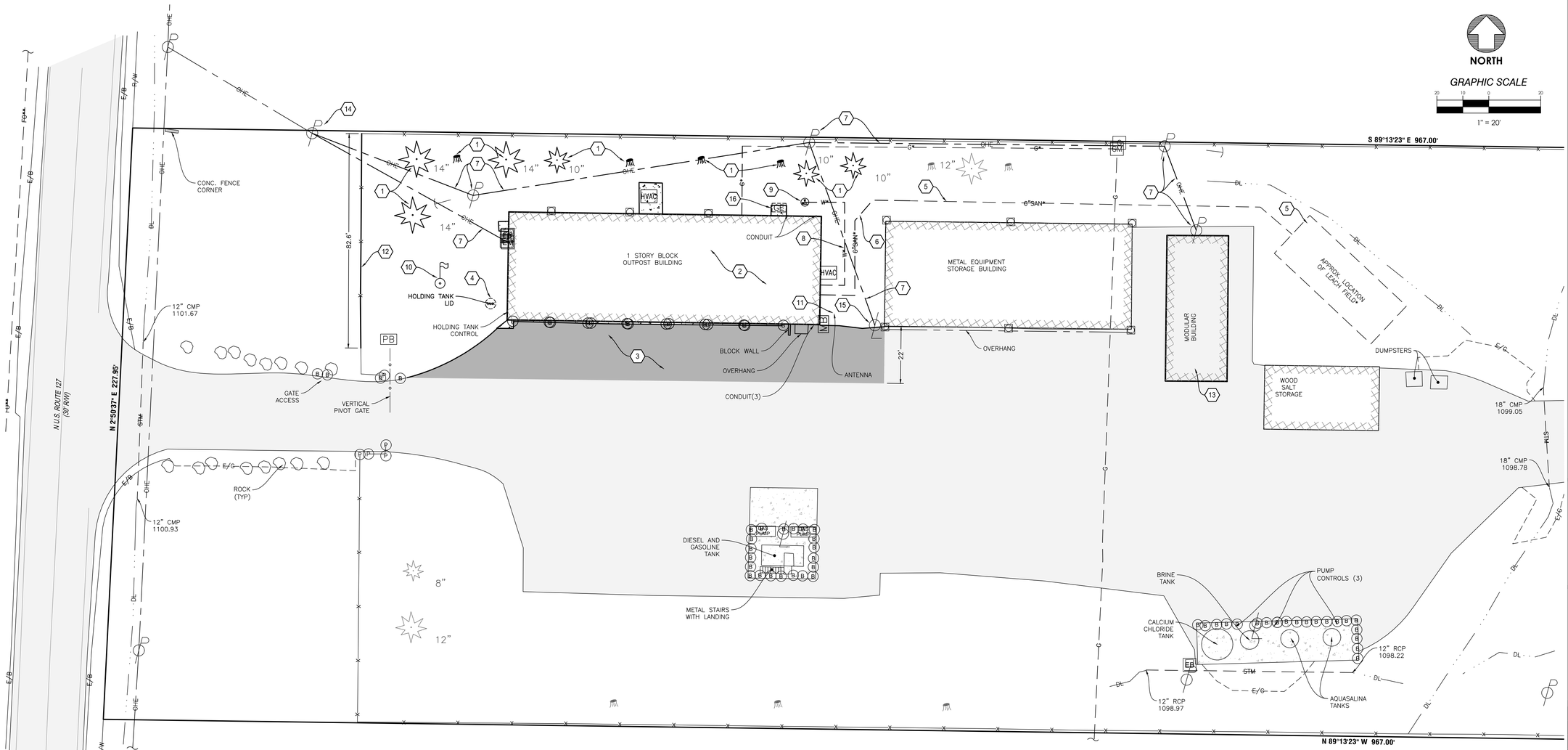


## DEMOLITION KEYNOTES

1. STUMP OR TREE & STUMP TO BE REMOVED.
2. BUILDING & APPURTENANCES INCLUDING DOWNSPOUTS, BOLLARDS, POSTS, MECHANICAL EQUIPMENT, PADS & UTILITY SERVICES TO BE REMOVED
3. ASPHALT PAVEMENT & BASE TO BE REMOVED
4. 3500 GALLON PLASTIC UNDERGROUND HOLDING TANK TO BE REMOVED
5. SANITARY SERVICES, SEPTIC SYSTEM EQUIPMENT, TANKS & LEACH FIELD TO REMAIN FOR RECONNECTION TO NEW BUILDING SANITARY SERVICE
6. SANITARY SERVICE TO BE REMOVED. SEE SITE DIMENSION PLAN
7. POWER POLE, OVERHEAD/UNDERGROUND ELECTRIC SERVICES & EQUIPMENT TO BE REMOVED. SEE MEP PLANS
8. WATER SERVICE FROM WELL TO BUILDING TO BE REMOVED
9. WELL TO BE ABANDONED/SEALED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PREBLE COUNTY GENERAL HEALTH DISTRICT. SEALING THE EX. WELL MUST BE DONE PRIOR TO DRILLING NEW WELL, HOWEVER, BOTH ITEMS MAY BE PERFORMED UNDER THE SAME PERMIT. SEE SITE DIMENSION PLAN FOR ADDITIONAL INFORMATION.
10. FLAG POLE TO BE REMOVED & RELOCATED. SEE SITE DIMENSION PLAN
11. ANTENNA TO BE REMOVED
12. CHAINLINK FENCE & POSTS TO BE REMOVED. SEE SITE DIMENSION PLAN
13. BUILDING & APPURTENANCES TO BE REMOVED BY OWNER
14. POWER POLE TO REMAIN. SEE MEP PLANS.
15. LIGHT POLE TO REMAIN. SEE MEP PLANS.
16. GENERATOR TO BE REMOVED.
17. GAS SERVICE TO BUILDING TO BE REMOVED. SEE MEP PLANS.

## MISC. NOTES

- ALL ITEMS NOTED FOR DEMOLITION SHALL BE REMOVED & DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL & LOCAL REGULATIONS, UNLESS OTHERWISE DIRECTED BY THE OWNER.
- CONTRACTOR SHALL COORDINATE THE DISCONNECTION & REMOVAL &/OR ABANDONMENT OF EXISTING UTILITIES WITH THE MEP PLANS & APPROPRIATE UTILITY OWNERS AS NECESSARY & SHALL MEET ALL APPLICABLE FEDERAL, STATE & LOCAL CODES & REQUIREMENTS. ANY ABANDONED OR INACTIVE UTILITIES ENCOUNTERED ON-SITE, WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE REMOVED TO THE PROPERTY LINE & CAPPED.
- THE REMOVAL OF ANY ITEMS WHICH HAVE IN-GROUND FOUNDATIONS, BASES OR FOOTERS OF ANY KIND SHALL INCLUDE COMPLETE REMOVAL OF SAID FOUNDATIONS.
- SEE SITE DIMENSION PLAN FOR ADDITIONAL INFORMATION.

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**Jerome M. Scott Architects**
1020 Goodale Blvd
Columbus, Ohio
43212


STATE OF OHIO · GLENN E. DECKER · 57924 · REGISTERED PROFESSIONAL ENGINEER

Registered Engineer — 11-12-2021 Date

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5656 US-127 Eaton, Ohio 45320

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SHEET TITLE

**SITE DEMOLITION PLAN**

C200

SD PROJECT NO. 4250

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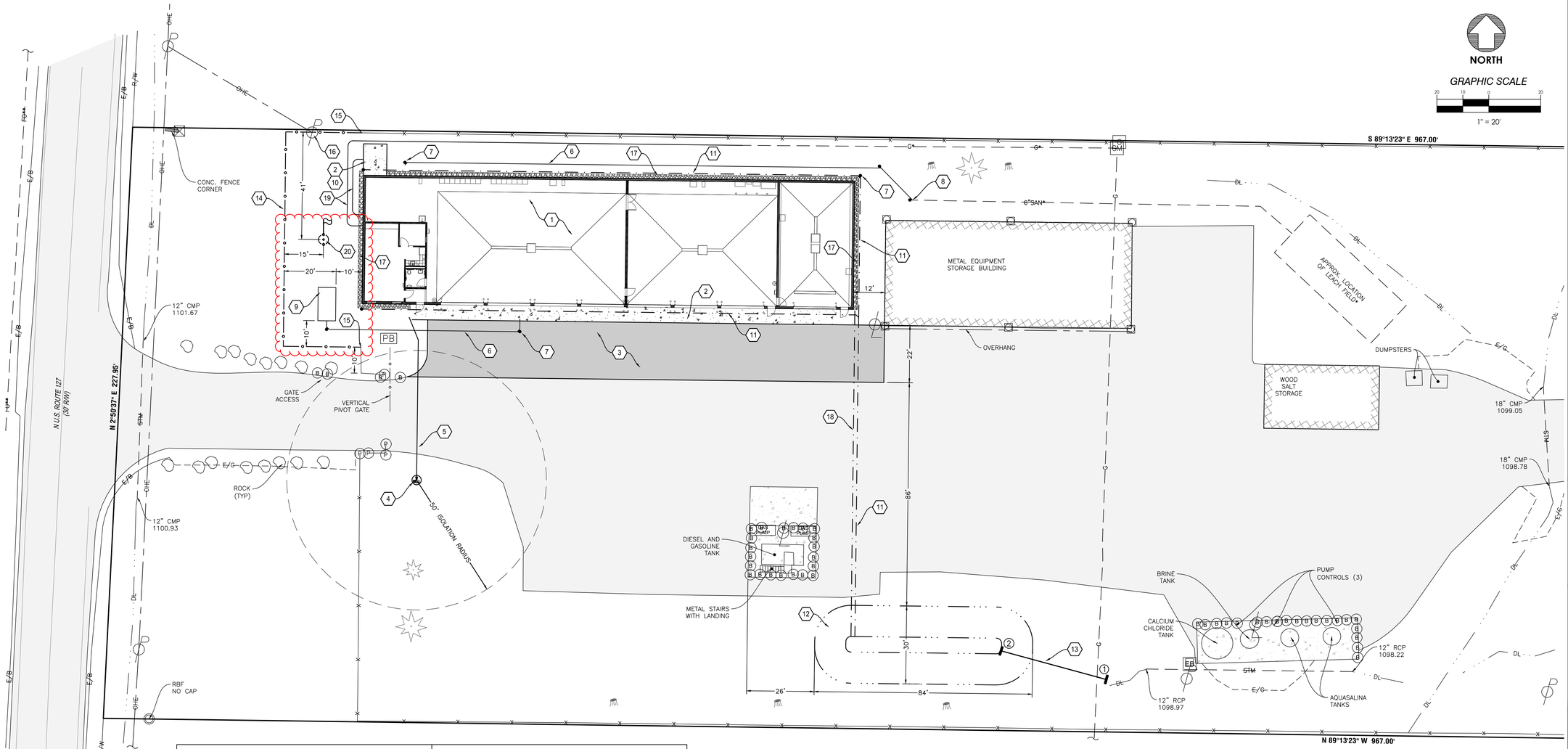


## SITE KEYNOTES

1. OUTPOST BUILDING. SEE ARCHITECTURAL PLANS.
2. FOR CONCRETE APRON/PAD DETAILS, SEE STRUCTURAL PLANS
3. HEAVY DUTY ASPHALT PAVEMENT. SEE DETAIL
4. WELL. SEE MISC. NOTES.
5. 3" WATER SERVICE. COORDINATE CONNECTION TO BUILDING PLUMBING WITH MEP PLANS
6. 6" SANITARY SEWER SERVICE AT 1.04% MIN. COORDINATE INVERT & LOCATION OF BUILDING CONNECTIONS WITH MEP PLANS
7. CLEANOUT, TYP. SEE DETAIL
8. FIELD VERIFY LOCATION & ELEVATION OF EX. SANITARY SERVICE & CONNECT TO NEW OUTPOST BUILDING SERVICE AS SHOWN.
9. 5000 GAL. HOLDING TANK. SEE DETAILS
10. FUTURE GENERATOR
11. 8" ROOF DRAIN COLLECTOR @ 0.8% MIN. COORDINATE CONNECTIONS TO BUILDING ROOF DRAINS/DOWNSPOUTS WITH ARCHITECTURAL & MEP PLANS. DISCHARGE TO DETENTION BASIN AS SHOWN.
12. STORM WATER DETENTION BASIN (QUANTITY CONTROL ONLY). SEE DETAILS
13. STORM SEWER. SEE PROFILE
14. CHAINLINK FENCE. SEE DETAIL.
15. CONNECT TO EX. FENCE.
16. COORDINATE PLACEMENT OF FENCE AROUND EX. UTILITY POLE WITH OWNER.
17. 18"W x 6"D NO. 4 OR NO. 57 WASHED STONE DRIP EDGE/MOW STRIP WITH 6 MIL BLACK WEED BARRIER & 3/16" X 5 1/2" INTERLOCKING ALUMINUM EDGING AT PERIMETER. EDGING SHALL BE INSTALLED WITH CONTINUOUS CORNERS & SECURED WITH MIN. 12" STAKES.
18. 4" FOUNDATION DRAIN OUTLET AT 1.2%±. DAYLIGHT TO DETENTION BASIN AS SHOWN.
19. GAS SERVICE. SEE MEP PLANS.
20. RELOCATED FLAGPOLE. SEE BASE DETAIL. COORDINATE FINAL LOCATION WITH OWNER & SIZE OF FLAG TO INSURE FULL EXTENSION IN ALL DIRECTIONS, FREE OF OBSTRUCTIONS.

## MISC. NOTES

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE GROUND & REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE A/E.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR BUILDING LAYOUT. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL BUILDING CORNER LOCATIONS IN THE FIELD.
- DO NOT SCALE FROM THIS DRAWING. ALL WRITTEN DIMENSIONS SHALL GOVERN. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE A/E.
- UNLESS OTHERWISE NOTED, FOR ALL CONCRETE PADS, APRONS & STOOPS, SEE ARCHITECTURAL AND/OR STRUCTURAL PLANS FOR DETAILS.
- CONTRACTOR SHALL PROVIDE A 75 GPM (MIN.) 3 PHASE WELL PUMP TO DELIVER 80 PSI (MIN.) TO THE BUILDING. A REGISTERED WATER SYSTEMS CONTRACTOR MUST OBTAIN A WELL PERMIT FROM THE PREBLE COUNTY GENERAL HEALTH DISTRICT PRIOR TO ANY DRILLING. ALL WORK RELATED TO THIS PERMIT MUST BE PERFORMED BY SAID CONTRACTOR & COORDINATED WITH THE HEALTH DISTRICT. A WATER SAMPLE IS REQUIRED AFTER THE WELL IS COMPLETE & CHLORINATED. IN ADDITION TO THE HEALTH DISTRICT, TESTING RESULTS SHOULD BE PROVIDED TO THE DESIGN ENGINEER TO DETERMINE IF TREATMENT OF ANY KIND WILL BE REQUIRED. SEE DEMOLITION PLAN FOR RELATED INFORMATION.
- TRENCH REPAIR FOR ASPHALT AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED PER THE HEAVY DUTY PAVEMENT DETAIL.

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JMSA ARCHITECTURE

**Jerome M. Scott Architects**
1020 Goodale Blvd
Columbus, Ohio
43212


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SHEET TITLE

**SITE DIMENSION PLAN**

C300

SD PROJECT NO. 4250

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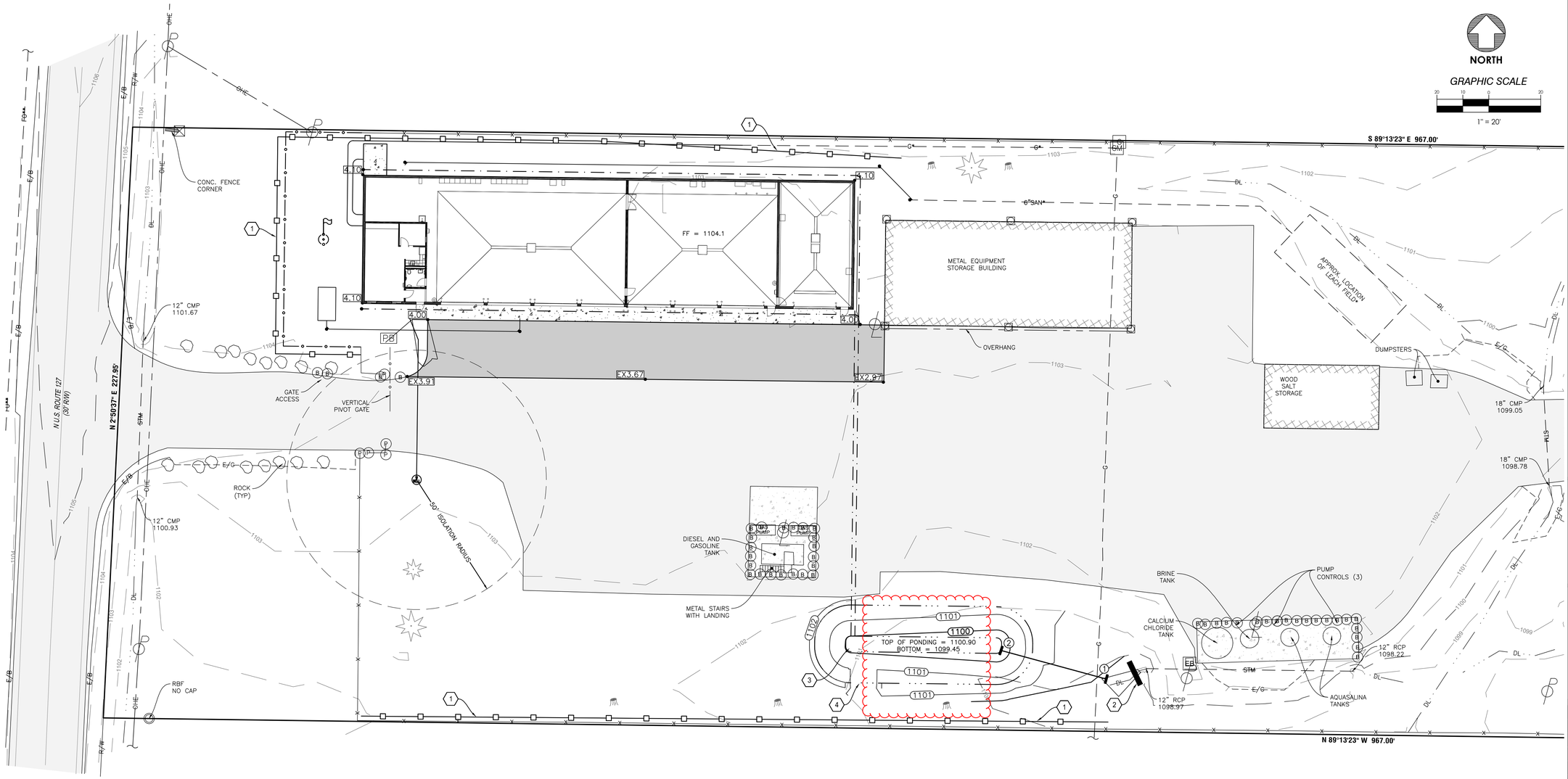


## GRADING KEYNOTES

1. SEDIMENT FENCE, TYP. SEE DETAIL
2. DITCH CHECK, TYP. SEE DETAIL
3. 4'W X 5'L X 18"D ROCK CHANNEL PROTECTION. SEE DETAIL
4. OVERFLOW WEIR. SEE DETAIL

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# ODOT - EATON OUTPOST

5656 US-127 Eaton, Ohio 45320

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| 1 | 12/17/2021 | REVISION 1 PERMIT / BID SET |
| - | 12/10/2021 | BID SET |
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PROJECT NO: **DOT-200023**
DATE: **03/11/22**
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SHEET TITLE

## SITE GRADING & STORM WATER PLAN

# C400

SD PROJECT NO. 4250

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TIMING OF SEDIMENT–TRAPPING PRACTICES: SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL THROUGHOUT ANY SITE DEMOLITION &/OR EARTH–DISTURBING ACTIVITY.

PERIMETER CONTROLS & OTHER PRACTICES INTENDED TO TRAP SEDIMENT SHALL BE IMPLEMENTED WITHIN 7 DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL THE UPSLOPE DEVELOPMENT AREA IS RESTABILIZED.

FOR DISTURBED AREAS THAT WILL LIE DORMANT FOR 1 YEAR OR MORE, PERMANENT EROSION CONTROLS SHALL BE APPLIED WITHIN 7 DAYS OF MOST RECENT DISTURBANCE.

FOR DISTURBED AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE & AT FINAL GRADE, PERMANENT EROSION CONTROLS SHALL BE APPLIED WITHIN 2 DAYS OF REACHING FINAL GRADE.

FOR ANY OTHER DISTURBED AREAS AT FINAL GRADE, PERMANENT EROSION CONTROLS SHALL BE APPLIED WITHIN 7 DAYS OF REACHING FINAL GRADE WITHIN THAT AREA.

FOR DISTURBED AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE & NOT AT FINAL GRADE, TEMPORARY EROSION CONTROLS SHALL BE APPLIED WITHIN 2 DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS.

FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN 1 YEAR, & NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE, TEMPORARY EROSION CONTROLS SHALL BE APPLIED WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA. FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST 7 DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S).

FOR DISTURBED AREAS THAT WILL BE LEFT IDLE OVER WINTER, TEMPORARY EROSION CONTROLS SHALL BE APPLIED PRIOR TO ONSET OF WINTER WEATHER.

SEDIMENT CONTROL DEVICES SHALL BE IMPLEMENTED FOR ALL AREAS REMAINING DISTURBED FOR OVER 14 DAYS.

SEDIMENT BARRIERS: SHEET FLOW RUNOFF FROM DENUDED AREAS SHALL BE FILTERED OR DIVERTED TO A SETTLING FACILITY.

SEDIMENT BARRIERS SUCH AS SEDIMENT FENCE OR DIVERSIONS TO SETTLING FACILITIES SHALL PROTECT ADJACENT PROPERTIES & WATER RESOURCES FROM SEDIMENT TRANSPORTED BY SHEET FLOW.

TEMPORARY EROSION CONTROL FEATURES SHALL BE ACCEPTABLY MAINTAINED & SHALL BE REMOVED OR REPLACED WHEN DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS.

ALL CONCENTRATED WATER SOURCES SHALL DISCHARGE INTO A VIABLE SEDIMENT BASIN.

SEDIMENT BASINS SHALL BE CLEANED OUT ANY TIME ACCUMULATED STORAGE REACHES THE SEDIMENT VOLUME ELEVATION AS INDICTED IN THE SEDIMENT BASIN CHART.

ALL WATER SOURCES SHALL DISCHARGE IN A NON–EROSIVE MANNER.

ALL SOIL STOCKPILES SHALL BE PROTECTED FROM EROSION BY PERIMETER CONTROL DEVICES SUCH AS STRAW BALE DIKES OR SILT FENCES. THESE PERIMETER CONTROL DEVICES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.

PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL GROUND COVER IS ACHIEVED WHICH, IN THE OPINION OF THE ENGINEER, PROVIDES ADEQUATE COVER & IS MATURE ENOUGH TO CONTROL SOIL EROSION SATISFACTORILY & TO SURVIVE ADVERSE WEATHER CONDITIONS.

INSPECTION SCHEDULE:
1. DIVERSION SWALE & STRUCTURAL PROTECTION – INSPECT EVERY 15 DAYS OR AFTER EACH RAINSTORM PRODUCING RUNOFF. REPAIR AS REQUIRED.

2. INLET PROTECTION – INSPECT FOR SEDIMENT ACCUMULATION AFTER EACH RAINFALL & DAILY DURING CONTINUED RAINFALL. REPAIR OR REPLACE WHEN WATER FLOW IS RESTRICTED BY SEDIMENT.

3. VEGETATIVE PLANTING – INSPECT AFTER SPROUTING OCCURS & REPLANT BARE AREAS. INSPECT ESTABLISHED COVER EVERY 15 DAYS FOR DAMAGE. REPLANT AS REQUIRED. MAINTAIN ESTABLISHED COVER AT MAXIMUM 6" HEIGHT. IRRIGATE AS REQUIRED DURING DRY PERIODS TO MAINTAIN LIVE VEGETATION.

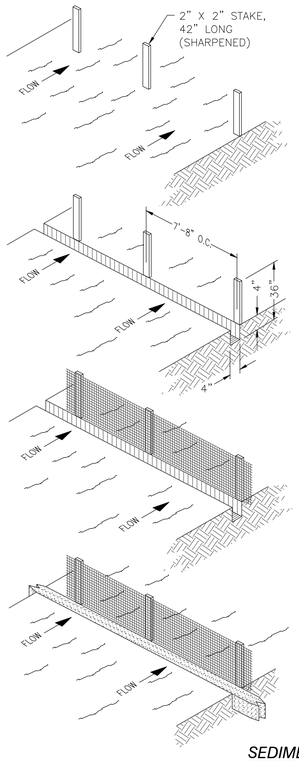
NON–SEDIMENT POLLUTANT CONTROLS: HAZARDOUS/TOXIC WASTES SHALL NOT BE DISPOSED OF ON–SITE OR DUMPED INTO SEWERS, DRAINS OR CATCH BASINS. ANY HAZARDOUS/TOXIC WASTE SHALL BE DISPOSED OF OFF–SITE AT AN APPROVED LOCATION &/OR TAKEN TO AN APPROVED RECYCLING CENTER.

CONSTRUCTION SEQUENCE:

1. THE CONTRACTOR SHALL ESTABLISH A STABILIZED CONSTRUCTION ENTRANCE.
2. THE CONTRACTOR SHALL PLACE THE REQUIRED SEDIMENT FENCE & OTHER CONTROLS PRIOR TO DENUDING.
3. THE CONTRACTOR SHALL PERFORM SITE EARTHWORK OPERATIONS IN ACCORDANCE WITH THE PLAN DETAILS & NOTES.
4. THE CONTRACTOR SHALL APPLY WATER OR DUST PALLIATIVE ON DISTURBED AREAS DURING CONSTRUCTION TO ALLEVIATE OR PREVENT DUST NUISANCE PER ITEM 616. DUST PALLIATIVE SHALL CONSIST OF CALCIUM CHLORIDE MEETING THE REQUIREMENTS OF SECTION 712.02. THE WATER OR CALCIUM CHLORIDE SHALL BE SPREAD UNIFORMLY OVER THE SURFACE OF THE DISTURBED AREAS.
5. EXPOSED SLOPES SHALL BE STABILIZED AS SOON AS THEY ARE CONSTRUCTED.
6. THE CONTRACTOR SHALL PLACE SEEDING & MULCHING AS NECESSARY TO STABILIZE ALL DENUDED AREAS. ALL DENUDED AREAS SHALL HAVE SOIL STABILIZATION, EITHER TEMPORARY OR PERMANENT, ACCORDING TO THE NOTES ON THIS SHEET.
7. THE CONTRACTOR SHALL REMOVE & DISPOSE OF THE EROSION CONTROL DEVICES ONLY AFTER ALL AREAS HAVE ESTABLISHED VEGETATIVE COVER.
8. AFTER REMOVAL OF EROSION CONTROL DEVICES, THE CONTRACTOR SHALL CLEAN INLETS & STORM PIPES OF ANY/ALL SEDIMENT INCURRED DURING CONSTRUCTION.

THE CONTRACTOR OR HIS/HER AGENT SHALL MAKE REGULAR INSPECTIONS OF ALL CONTROL MEASURES IN ACCORDANCE WITH THE INSPECTION SCHEDULE OUTLINED ON THE APPROVED EROSION & SEDIMENT CONTROL PLAN(S). THE PURPOSE OF SUCH INSPECTIONS WILL BE TO DETERMINE THE OVERALL EFFECTIVENESS OF THE CONTROL PLAN & THE NEED FOR ADDITIONAL CONTROL MEASURES. ALL INSPECTIONS SHALL BE DOCUMENTED IN WRITTEN FORM.

ALL CONSTRUCTION & DEMOLITION DEBRIS WASTE SHALL BE RECYCLED OR DISPOSED OF IN AN OHIO EPA APPROVED CONSTRUCTION & DEMOLITION DEBRIS LANDFILL AS REQUIRED BY OHIO REVISED CODE 3714.




SILT FENCE: THIS SEDIMENT BARRIER UTILIZES STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRIC & IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED.

1. HEIGHT OF SILT FENCE SHALL NOT EXCEED 36". HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.

2. FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FABRIC SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POSTS WITH A 6" (MIN.) OVERLAP & SECURELY SEALED.

3. POSTS SHALL BE SPACED AT 10' (MAX.) APART AT THE BARRIER LOCATION & DRIVEN SECURELY INTO THE GROUND 12" (MIN.). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6'.

4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4" WIDE & 4" DEEP ALONG THE LINE OF POSTS & UP–SLOPE FROM THE BARRIER.

5. WHEN STANDARD STRENGTH FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UP–SLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1" LONG, TIE WIRES OR HOG RINGS. WIRE SHALL EXTEND INTO THE TRENCH 2" (MIN.) & SHALL NOT EXTEND MORE THAN 36" ABOVE ORIGINAL GROUND SURFACE.

6. STANDARD STRENGTH FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE & 8" OF THE FABRIC SHALL EXTEND INTO THE TRENCH. FABRIC SHALL NOT EXTEND MORE THAN 36" ABOVE ORIGINAL GROUND SURFACE. FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.

7. WHEN EXTRA STRENGTH FABRIC & CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH CASE, FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO POSTS WITH ALL OTHER PROVISIONS OF ITEM NO. 6 APPLYING.

8. THE TRENCH SHALL BE BACKFILLED & SOIL COMPACTED OVER THE FILTER FABRIC.

9. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UP–SLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

MAINTENANCE:

SILT FENCES & FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL & AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE & THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

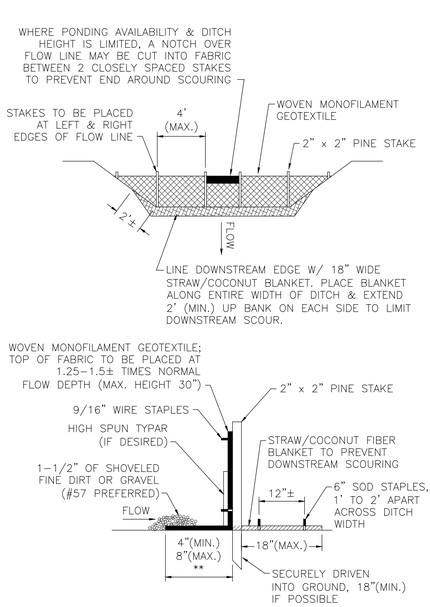
SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT & MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE–HALF THE BARRIER HEIGHT.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH EXISTING GRADE, PREPARED & SEEDED.

DESIGN CAPACITY CHART:

| MAX. DRAINAGE AREA PER 100 LF OF FENCE | RANGE OF SLOPE PER DRAINAGE AREA |
|---|---|
| 0.5 AC. | <2% |
| 0.25 AC. | ≥2% BUT <20% |
| 0.125 AC. | ≥20% BUT <50% |

## SEDIMENT FENCE (1)
NOT TO SCALE





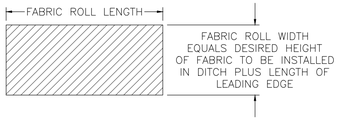


** LEADING EDGE MUST LAY FLAT ON THE BOTTOM OF THE DITCH & ALONG BANK SIDES; REMOVE ALL VISIBLE ROCK UNDER THE LEADING EDGE

MATERIALS GUIDE
1. 2" x 2" PINE STAKES, SHARPENED.
2. WOVEN MONOFILAMENT GEOTEXTILE FABRIC (100–250 GPM/SF FLOW RATE) OR HIGH FLOW FABRIC (HIGH SPUN TYPAR FOR ADDITIONAL PONDING).
3. 9/16" WIRE STAPLES & 6" SOD STAPLES.
4. STRAW/COCONUT FIBER BLANKET.
5. #57 STONE (ODOTCMS).

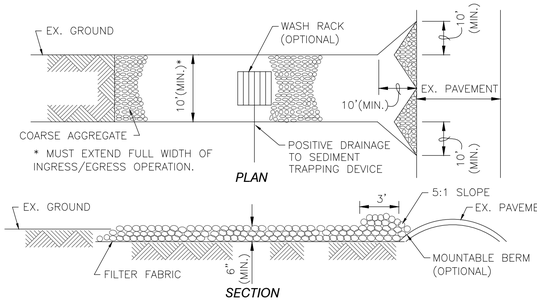
INSTALLATION GUIDE
1. DETERMINE REQUIRED HEIGHT OF FABRIC – IN GENERAL, REQUIRED HEIGHT EQUALS 1.25 TO 1.5 TIMES NORMAL FLOW DEPTH OF DITCH.
2. INSTALL STAKES PER DIAGRAMS.
3. USE 4' CARPENTER'S LEVEL TO MARK STAKES AT TOP OF FABRIC LOCATION. TOP OF FABRIC TO BE LEVEL ALONG THE WIDTH OF DITCH.
4. STAPLE TOP EDGE OF FABRIC TO STAKES AT LEVEL MARKS.
5. TRIM EXCESS FABRIC TO PROVIDE A LEADING EDGE THAT LIES FLAT & FLUSH WITH DITCH BOTTOM.
6. HIGH SPUN TYPAR FABRIC MAY BE ADDED AT UPSTREAM END IF ADDITIONAL PONDING IS DESIRED OR IF SUPERFINES ARE OF CONCERN.
7. STAPLE BOTTOM OF FABRIC AT DITCH BOTTOM; CHECK TO ENSURE A TIGHT FIT.
8. SHOVEL DIRT OR GRAVEL TO COMPLETELY COVER LEADING EDGE.
9. PLACE STRAW/COCONUT FIBER AT DOWNSTREAM END. SECURE WITH SOD STAPLES. TRIM EXCESS MATERIAL SO IT LIES FLAT & FLUSH WITH DITCH BOTTOM.
10. FABRIC ROLL DIMENSIONS TO BE BASED ON INSTALLATION REQUIREMENTS – ALL EXCESS TO BE TRIMMED WITH SHARP UTILITY KNIFE OR SCISSORS.
11. ANY INSTALLATION FOLDS MUST BE CAREFULLY TRIMMED & OVERLAPPED TO AVOID WRINKLES OR UNDESIRABLE IRREGULARITIES.

MAINTENANCE GUIDE
1. AFTER FIRST RAIN, REPLACE ANY MISSING ROCK & DIRT AT LEADING EDGE.
2. INSPECT DITCH CHECKS AFTER HEAVY RAINS.
3. REMOVE SEDIMENT DEPOSITS FROM DITCH CHECKS WHEN TOP OF SEDIMENT REACHES 75% OF FABRIC HEIGHT.



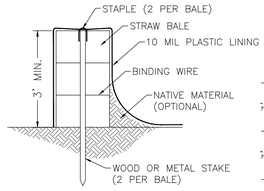

NOTE: WHERE DESIRED HEIGHT EXCEEDS FABRIC ROLL WIDTH, FABRIC TO BE OVERLAPPED BY A MINIMUM OF 12". PLACE 2" X 6" OR 4" X 4" BOARD BEHIND OVERLAP

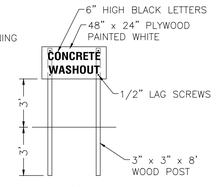
## DITCH CHECK (MODERATE FLOW) (2)
NOT TO SCALE

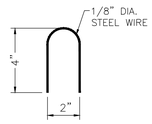


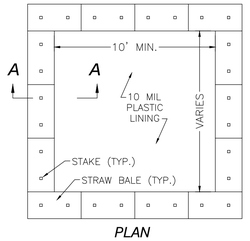

CONSTRUCTION SPECIFICATIONS
1. STONE SIZE: USE 2" STONE OR RECLAIMED/RECYCLED CONCRETE EQUIVALENT.
2. LENGTH: AS REQUIRED.
3. THICKNESS: NOT LESS THAN 6".
4. WIDTH: 10' MIN., BUT NO LESS THAN FULL WIDTH OF INGRESS/EGRESS POINTS.
5. FILTER CLOTH: WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER: SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED ACROSS ENTRANCE. IF PIPING IS IMPRACTICAL, MOUNTABLE BERM WITH 5:1 SLOPES IS PERMITTED.
7. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT–OF–WAY. THIS MAY REQUIRE TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND & REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT–OF–WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING: WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT–OF–WAYS. WASHING SHALL BE DONE ON AN AREA STABILIZED WITH STONE.
9. PERIODIC INSPECTION & NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

## TEMPORARY CONSTRUCTION ENTRANCE (3)
NOT TO SCALE




NOTES:
- ACTUAL LOCATION & LAYOUT SHALL BE DETERMINED IN THE FIELD.
- PIT CAN BE DUG INTO THE GROUND OR FORMED ABOVE GRADE.
- PLASTIC LINING SHALL BE MAINTAINED FREE OF TEARS OR HOLES.
- AFTER THE PIT IS USED & WASHWATER HAS EVAPORATED OR BEEN VACUUMED OFF, THE REMAINING HARDENED SOLIDS CAN BE BROKEN UP & REMOVED FROM THE PIT.
- IF DAMAGE OCCURS TO THE STRAW BALES OR PLASTIC LINING DURING THE REMOVAL OF SOLIDS, THE PIT SHALL BE REPAIRED & RELINED WITH NEW PLASTIC TO ACHIEVE A LEAK–PROOF SYSTEM.
- A PRE–FABRICATED PORTABLE VINYL WASHOUT CONTAINER WITH FILTER BAG OR METAL WASHOUT CONTAINER SERVICE MAY BE USED AS SUBSTITUTES FOR THE STRAW BALE & PLASTIC LINER PIT.

## CONCRETE WASHOUT AREA (4)
NOT TO SCALE

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

SANDS DECKER ENGINEERS & SURVEYORS

OFFICES

128 East Main Street
Logan, Ohio 43138
740-385-2140

1495 Old Henderson Road
Columbus, Ohio 43220
614-459-6992

507 Main Street
Zanesville, Ohio 43701
740-450-1640

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JMSA ARCHITECTURE

**Jerome M. Scott Architects**
1020 Goodale Blvd
Columbus, Ohio
43212

STATE OF OHIO · GLENN E. DECKER · 57824 · REGISTERED PROFESSIONAL ENGINEER

Registered Engineer — 11-12-2021 Date

DOT-200023
ODOT - EATON
OUTPOST
5656 US-127 Eaton, Ohio 45320

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SHEET TITLE

**STORM WATER POLLUTION PREVENTION NOTES & DETAILS**

C401

SD PROJECT NO. 4250

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APPROVED PLANS: THE CIVIL/SITE DRAWINGS PREPARED BY SANDS DECKER FOR THIS PROJECT ARE NOT FOR CONSTRUCTION UNLESS AND UNTIL ALL APPLICABLE APPROVALS HAVE BEEN SECURED AND THE DRAWINGS ARE ISSUED FOR CONSTRUCTION. LAYOUT, FABRICATION OF MATERIALS, CONSTRUCTION, OR ANY CONSTRUCTION-RELATED ACTIVITIES ASSOCIATED WITH THESE DRAWINGS IS NOT TO PROCEED UNLESS EACH SHEET INCLUDES THE ISSUED FOR CONSTRUCTION LABEL.

GENERAL: THE CURRENT STATE OF OHIO, DEPARTMENT OF TRANSPORTATION CONSTRUCTION & MATERIAL SPECIFICATIONS (ODOTCMS) TOGETHER WITH THE REQUIREMENTS OF PREBLE COUNTY, OHIO, INCLUDING ALL SUPPLEMENTS THERETO, IN FORCE ON THE DATE OF CONTRACT, SHALL GOVERN ALL MATERIALS & WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THESE PLANS. WHEN THERE IS OR APPEARS TO BE A CONFLICT BETWEEN THE ABOVE REFERENCED SPECIFICATIONS & THESE PLANS, THE MOST STRINGENT REQUIREMENT SHALL GOVERN. UNLESS OTHERWISE SPECIFIED, ALL ITEM NUMBERS REFER TO ODOTCMS.

PROJECT LIMITS: THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT, THE EXISTING RIGHTS-OF-WAY, CONSTRUCTION EASEMENTS & PERMANENT EASEMENTS, & SHALL NOT TRESPASS UPON PRIVATE PROPERTY WITHOUT WRITTEN CONSENT OF THE PROPERTY OWNER.

PROTECTION OF SURVEY MONUMENTS: THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, & ANY OTHER SURVEY MONUMENTS OR MARKERS. IF THE ACTIONS OF THE CONTRACTOR, HIS EMPLOYEES, OR HIS SUB-CONTRACTORS RESULT IN DESTRUCTION OF OR DAMAGE TO ANY OF THE ABOVE ITEMS, THOSE ITEMS SHALL BE ACCURATELY RESTORED, AT THE CONTRACTOR'S EXPENSE, BY A LICENSED SURVEYOR REGISTERED IN THE STATE OF OHIO.

MISCELLANEOUS WORK: ALL ITEMS OF WORK CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR & THE COST OF SAME SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS RELATED ITEMS.

PERMITS: THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS UNLESS OTHERWISE INDICATED IN THESE DOCUMENTS.

TRAFFIC CONTROL: THE CONTRACTOR SHALL USE ADEQUATE LIGHTS, SIGNS, FLAGGERS, & BARRICADES AS REQUIRED IN ITEM 614 TO SAFEGUARD THE TRAVELING PUBLIC AT ALL TIMES. ALL TRENCHES SHALL BE BACKFILLED OR SECURELY PLATED DURING NON-WORKING HOURS. WHERE IT IS ANTICIPATED THAT WORK WILL CLOSE A ROAD OR STREET, THE CONTRACTOR SHALL INFORM THE RESIDENTS TO BE AFFECTED, THE LOCAL LAW ENFORCEMENT AGENCY, THE LOCAL FIRE DEPARTMENT, & THE ENGINEER AS TO THE EXTENT, NATURE, & THE TIME OF THE ANTICIPATED WORK. THE CONTRACTOR SHALL SUBMIT A PLAN & SCHEDULE FOR DETOURING TRAFFIC 10 DAYS PRIOR TO THE CLOSING OF ANY ROAD OR STREET TO THE ENGINEER & ROAD OWNER. DURING A CLOSING OF A ROAD OR STREET, THE CONTRACTOR SHALL PROVIDE ACCESS TO PROPERTIES FOR EMERGENCY VEHICLES & THE PROPERTY OWNERS. NO ROAD OR STREET SHALL BE CLOSED UNTIL THE SCHEDULE IS APPROVED BY THE AGENCY HAVING CONTROL OF THE ROAD.

SAFETY OF CONSTRUCTION: THE CONTRACTOR SHALL COMPLY WITH THE FEDERAL OCCUPATIONAL SAFETY & HEALTH ACT OF 1970 (OSHA) & ALL OTHER APPLICABLE FEDERAL, STATE, & LOCAL LAWS, REGULATIONS, FINDINGS & ORDERS RELATING TO SAFETY & HEALTH CONDITIONS ON THE WORK SITE. CONSTRUCTION METHODS FOR COMPLETING THE WORK DESCRIBED IN THESE CONTRACT DOCUMENTS SHALL BE CONSISTENT WITH THE OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA) AMENDED CONSTRUCTION STANDARDS FOR EXCAVATIONS, 29 CFR PART 1926, SUB-PART P, EFFECTIVE MARCH 5, 1990.

EROSION & SEDIMENT CONTROL: PROJECTS DISTURBING LESS THAN ONE ACRE & NOT PART OF A LARGER COMMON PLAN OF DEVELOPMENT ARE NOT REQUIRED TO SUBMIT A NOTICE OF INTENT (NOI) TO THE OHIO EPA FOR COVERAGE UNDER THEIR GENERAL CONSTRUCTION STORM WATER PERMIT & ARE NOT REQUIRED TO MAINTAIN A STORM WATER POLLUTION PREVENTION PLAN (SWP3) ON SITE. THE CONTRACTOR SHALL, HOWEVER, INSTALL & MAINTAIN SILT FENCES, DITCH CHECKS, TEMPORARY SEEDING, & OTHER MEASURES AS NECESSARY TO CONTROL SOIL EROSION & PREVENT SEDIMENT-LADEN RUN-OFF FROM EXITING THE SITE OR ENTERING STORM SEWER SYSTEMS OR DRAINAGE WAYS.

BORROW MATERIAL & SURPLUS EXCAVATION: THE SITE SHALL BE CONSTRUCTED TO THE FINAL GRADES SHOWN ON THE PLANS. WHERE NECESSARY, THE CONTRACTOR SHALL OBTAIN SUITABLE BORROW MATERIAL ON-SITE OR OFF-SITE AS NEEDED TO COMPLETE THE SITE CONSTRUCTION AS DESCRIBED HEREIN. THE CONTRACTOR SHALL DISPOSE OF ALL SURPLUS EXCAVATION ON SITE &, IF NECESSARY, SHALL HAUL SURPLUS EXCAVATED MATERIAL AWAY FROM THE SITE & DISPOSE OF PROPERLY.

EXISTING UTILITIES: THE INFORMATION SHOWN CONCERNING EXISTING UTILITIES IS APPROXIMATE. THE LOCATION, SIZES, & OTHER INFORMATION SHOWN IS ONLY AS ACCURATE AS THAT PROVIDED BY THE OWNERS OF THE UTILITY. THIS INFORMATION IS NOT REPRESENTED, WARRANTED OR GUARANTEED TO BE COMPLETE OR ACCURATE. THE ENGINEER DOES NOT INDEPENDENTLY VERIFY NOR FIELD LOCATE UTILITIES. THE CONTRACTOR IS RESPONSIBLE TO PHYSICALLY LOCATE & VERIFY, IN THE FIELD, THE HORIZONTAL & VERTICAL LOCATIONS OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO THE BEGINNING OF CONSTRUCTION. THE CONTRACTOR SHALL SUPPORT, PROTECT & RESTORE ALL EXISTING UTILITIES & THEIR ASSOCIATED ITEMS. THE CONTRACTOR SHALL ADHERE TO ALL APPLICABLE SECTIONS OF THE OHIO REVISED CODE INCLUDING SECTIONS 153.64 & 3781.28. THE CONTRACTOR SHALL NOTIFY THE REGISTERED UTILITY PROTECTION SERVICE & ALL UTILITY OWNERS HAVING FACILITIES IN THE CONSTRUCTION AREA WHO ARE NOT MEMBERS OF A REGISTERED UNDERGROUND UTILITY PROTECTION SERVICE. THE CONTRACTOR SHALL GIVE NOTIFICATION AS REQUIRED BY OHIO REVISED CODE, AT LEAST TWO (2) & NOT MORE THAN TEN (10) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS, EXCLUDING SATURDAYS, SUNDAYS, & LEGAL HOLIDAYS, & SHALL COORDINATE HIS WORK WITH THE UTILITY OWNERS UNTIL HIS WORK IS COMPLETED. THE CONTRACTOR SHALL KEEP THE UTILITY OWNERS APPRISED OF HIS SCHEDULE & REQUIREMENTS & SHALL PROVIDE THE PROJECT OWNER WITH EVIDENCE OF HAVING NOTIFIED THE UTILITIES & PROVIDED THEM WITH HIS WORK SCHEDULE PRIOR TO BEGINNING ANY WORK.

THE CONTRACTOR MAY REVIEW THE INFORMATION PROVIDED TO THE ENGINEER BY THE UTILITY OWNERS AT THE ENGINEER'S OFFICE PRIOR TO SUBMITTING A BID. CONTRACTORS REQUIRING MORE INFORMATION REGARDING EXISTING UTILITIES SHOULD CONDUCT THEIR OWN FIELD INVESTIGATIONS OR OTHERWISE LOCATE THE UTILITIES PRIOR TO SUBMITTING A BID FOR THE CONSTRUCTION. SEE EXISTING SITE SURVEY FOR A LISTING OF UTILITIES THAT MAY HAVE UNDERGROUND FACILITIES IN THE PROJECT AREA.

DRAINAGE TILE: ALL FARM DRAINS, ROADWAY DRAINS, & OTHER DRAINAGE TILE WHICH ARE ENCOUNTERED WITHIN THE CONSTRUCTION LIMITS DURING CONSTRUCTION SHALL BE PROVIDED WITH AN UNOBSTRUCTED OUTLET. EXISTING COLLECTOR TILES WHICH ARE LOCATED BELOW THE PROPOSED FINISHED ELEVATION & WHICH CROSS THE TRENCH SHALL BE REPLACED WITHIN THE TRENCH LIMITS BY ITEM 611 CONDUIT. THE LOCATION, TYPE, SIZE, & GRADE OF THE REQUIRED REPLACEMENT SHALL BE DETERMINED BY THE PROJECT ENGINEER OR HIS SITE REPRESENTATIVE DURING CONSTRUCTION. NECESSARY BENDS OR FITTINGS, COMPACTED GRANULAR BACKFILL, & ASSOCIATED ITEMS SHALL BE INCLUDED IN THE BID PRICE.

TEMPORARY PAVEMENT: TEMPORARY PAVEMENT REPLACEMENT SHALL BE PROVIDED ON PERMANENT PAVEMENT DAMAGED OR REMOVED BY THE CONTRACTOR IN THE PERFORMANCE OF THE WORK. AS SOON AS THE TRENCH HAS BEEN BACKFILLED, TEMPORARY PAVEMENT SHALL BE INSTALLED. THE ENGINEER MAY REQUIRE THAT ALL MATERIALS & EQUIPMENT INCIDENTAL TO PROVIDING THE TEMPORARY PAVEMENT BE ON THE JOB SITE PRIOR TO REMOVING THE EXISTING PAVEMENT. TEMPORARY PAVEMENT SHALL CONSIST OF 2" OF BITUMINOUS COLD MIX PLACED UPON 6" OF COMPACTED ITEM 304, AGGREGATE BASE. TEMPORARY PAVEMENT SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL PERMANENT PAVEMENT IS INSTALLED.

PERMANENT PAVEMENT: WHERE DAMAGED OR REMOVED, THE PAVEMENT SHALL BE REPLACED BY FIRST REMOVING TEMPORARY PAVEMENT DOWN TO CLEAN GRANULAR MATERIAL & REMOVING EXISTING PAVEMENT FOR AT LEAST 12" BEYOND THE TRENCH LIMITS ON EACH SIDE. PAVEMENT TO BE REMOVED SHALL BE NEATLY SAWED NOT MORE THAN 72 HOURS PRIOR TO THE PLACING OF PERMANENT PAVEMENT MATERIALS. PERMANENT PAVEMENT REPLACEMENT MATERIALS & WORKMANSHIP SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS. ITEM 407, TACK COAT, SHALL BE APPLIED TO THE EXPOSED EXISTING PAVEMENT EDGES WHEN EITHER THE EXISTING OR NEW PAVEMENT IS BITUMINOUS MATERIAL. WHEN THE PERMANENT PAVEMENT IS BITUMINOUS MATERIAL, ITEM 407, TACK COAT SHALL BE APPLIED TO BITUMINOUS OR CONCRETE BASE MATERIAL PRIOR TO THE PLACING OF THE PERMANENT PAVEMENT.

NEW PAVEMENT DESIGN: A GEOTECHNICAL REPORT WITH PAVEMENT DESIGN RECOMMENDATIONS WAS NOT PROVIDED FOR THIS PROJECT. PAVEMENT DETAILS SHOWN HEREIN ARE BASED ON GENERALLY ACCEPTED ENGINEERING STANDARDS. SANDS DECKER CPS, LLC PROVIDES NO GUARANTEE AND ASSUMES NO LIABILITY FOR THE USEFUL LIFE AND/OR PERFORMANCE OF SAID DESIGN RECOMMENDATIONS.

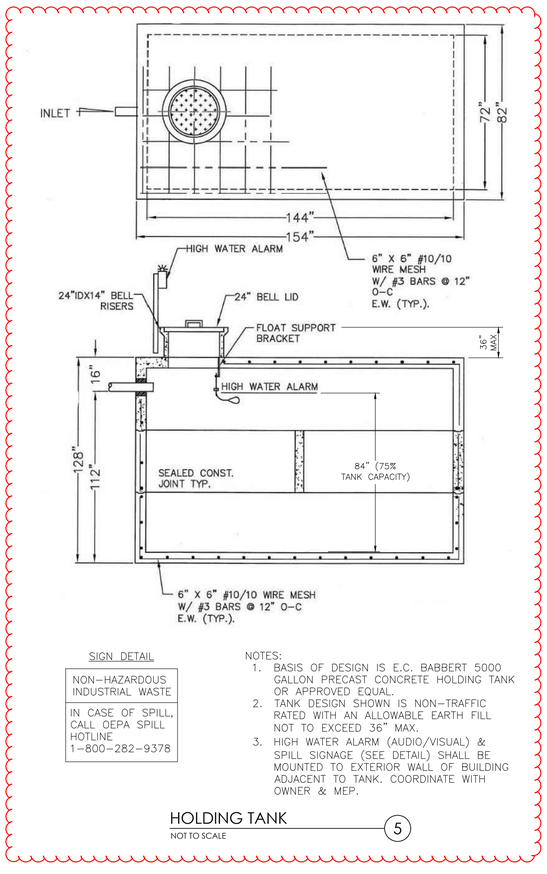
INSTALLATION IN EMBANKMENT: WHERE UTILITIES ARE TO BE INSTALLED IN EMBANKMENT AREAS, THE EMBANKMENT SHALL BE PLACED & COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS, A MINIMUM OF 2' ABOVE THE PIPE BUT SUFFICIENTLY ABOVE THE PIPE TO PROTECT THE PIPE FROM DAMAGE DUE TO FURTHER CONSTRUCTION ACTIVITIES PRIOR TO THE INSTALLATION OF THE UTILITY.

CONFLICTS IN GRADE: IN ALL CONFLICTS IN GRADE BETWEEN THE WATER LINES OR WATER SERVICES & OTHER EXISTING UTILITIES, THE WATER LINE/SERVICE LINE SHALL BE LOWERED DURING CONSTRUCTION. A MINIMUM 18" VERTICAL & 10' HORIZONTAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE WATER LINE & ANY SANITARY OR STORM SEWER; 12" MINIMUM VERTICAL CLEARANCE FOR OTHER UTILITIES. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES AHEAD OF HIS CONSTRUCTION OPERATIONS TO ALLOW FOR ADJUSTMENTS IN GRADE TO THE WATER LINE THAT MAY BE REQUIRED AS A RESULT OF POTENTIAL CONFLICTS WITH AN EXISTING UTILITY. NO ADDITIONAL COMPENSATION WILL BE MADE TO THE CONTRACTOR FOR LOWERING THE WATER LINE TO AVOID CONFLICTS WITH EXISTING UTILITIES.

EXISTING DITCHES: WHERE IT BECOMES NECESSARY TO LOCATE A MAIN LINE VALVE, FIRE HYDRANT OR MANHOLE IN AN EXISTING DITCH, THE CONTRACTOR SHALL RELOCATE THE DITCH BEHIND THE PROPOSED VALVE, HYDRANT OR MANHOLE.

MANHOLE TOPS: WHERE MANHOLES ARE LOCATED WITHIN PUBLIC OR PRIVATE PAVEMENT, SIDEWALK, CONCRETE PAD OR PAVED SHOULDER, THE TOPS SHALL BE BUILT TO EXISTING PAVEMENT ELEVATIONS. ELSEWHERE MANHOLES SHALL BE BUILT OR SUBSEQUENTLY ADJUSTED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE MANHOLE. THE COST OF ADJUSTMENT IS TO BE INCLUDED IN THE PRICE BID FOR THE MANHOLE.

FINAL GRADING & CLEAN-UP: THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS & MATERIALS RESULTING FROM HIS OPERATION & RESTORE ALL SURFACES, STRUCTURES, DITCHES, SIGNS, MAILBOXES, FENCES, GUARDRAILS, OR OTHER PHYSICAL FEATURES OR PROPERTY DISTURBED OR DAMAGED DURING WORK UNDER THIS CONTRACT TO THEIR ORIGINAL CONDITION TO THE SATISFACTION OF THE ENGINEER. THE COST OF ALL SUCH WORK SHALL BE INCLUDED WITH THE VARIOUS RELATED ITEMS.

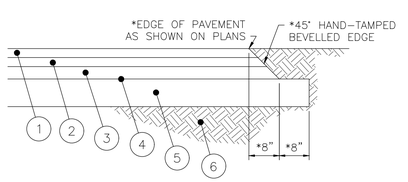



SIGN DETAIL

| NON-HAZARDOUS INDUSTRIAL WASTE |
|---|
| IN CASE OF SPILL, CALL OEPA SPILL HOTLINE 1-800-282-9378 |

NOTES:
1. BASIS OF DESIGN IS E.C. BABBERT 5000 GALLON PRECAST CONCRETE HOLDING TANK OR APPROVED EQUAL.
2. TANK DESIGN SHOWN IS NON-TRAFFIC RATED WITH AN ALLOWABLE EARTH FILL NOT TO EXCEED 36" MAX.
3. HIGH WATER ALARM (AUDIO/VISUAL) & SPILL SIGNAGE (SEE DETAIL) SHALL BE MOUNTED TO EXTERIOR WALL OF BUILDING ADJACENT TO TANK. COORDINATE WITH OWNER & MEP.

HOLDING TANK
NOT TO SCALE (5)

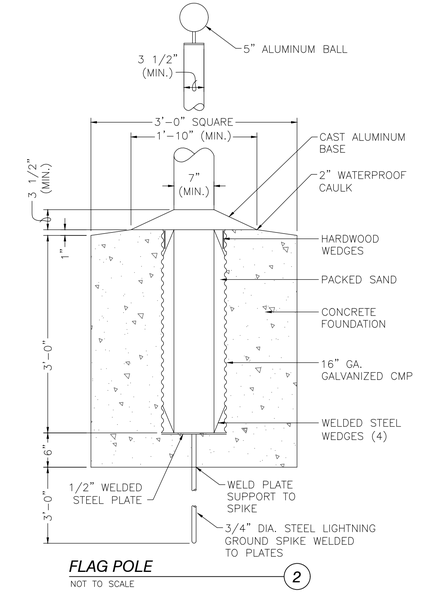



* ONLY WHERE PAVEMENT DOES NOT ABUT CURB/SIDEWALK OR OTHER PAVEMENT

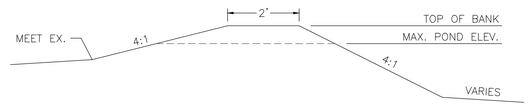
1. 1 1/2" ~ ITEM 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), PG64-22
2. 2 1/2" ~ ITEM 441, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448), PG64-22
3. 4" ~ ITEM 301, ASPHALT BASE COURSE.
4. ITEM 408, PRIME COAT (0.35 GAL/SY)
5. 10" ~ ITEM 304, AGGREGATE BASE (COMPACT TO 100% MAX. DENSITY)
6. ITEM 204, SUBGRADE COMPACTION (PROOF ROLL & STABILIZE TO 100% MAX. DRY DENSITY PER ASTM D-698; GRADE SO THAT NO POOLING AREAS ARE PRESENT)

NOTES:
1. GRADE OF SUBBASE SHALL BE SLOPED TO MATCH FINISH GRADE FOR POSITIVE DRAINAGE.
2. ENGINEERED FILL, WHEN REQUIRED, SHALL BE PLACED IN 8" MAX. LAYERS WITH EACH COMPACTED TO 100% MAX. DRY DENSITY PER ASTM D-698.
3. ITEM 407, TACK COAT MAY BE APPLIED AT A RATE OF 0.06 GAL/SY BETWEEN INTERMEDIATE & SURFACE COURSES OF ASPHALT AS CONDITIONS REQUIRE.

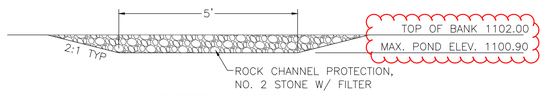
HEAVY DUTY PAVEMENT
NOT TO SCALE (1)



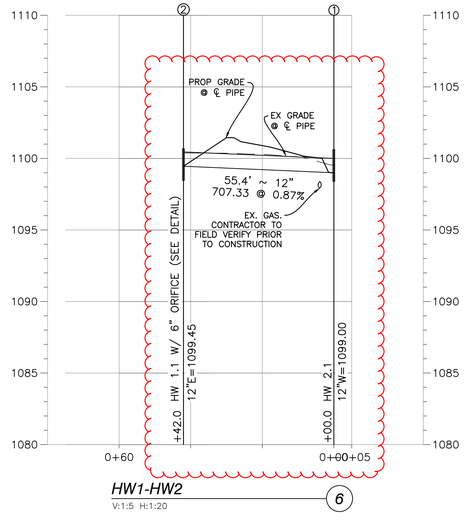

FLAG POLE
NOT TO SCALE (2)




TYPICAL BASIN SECTION
NOT TO SCALE (3)




OVERFLOW WEIR
NOT TO SCALE (4)




HW1-HW2
V:1:5 H:1:20 (6)


JMSA ARCHITECTURE

**Jerome M. Scott Architects**
1020 Goodale Blvd
Columbus, Ohio
43212


STATE OF OHIO · GLENN E. DECKER · 57924 · REGISTERED PROFESSIONAL ENGINEER

Registered Engineer — 11-12-2021 Date

DOT-200023
ODOT - EATON OUTPOST
5656 US-127 Eaton, Ohio 45320

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 3 | 03/11/2022 | REVISION 3 |
| 2 | 03/11/2022 | REVISION 2 / CONFORMED SET |
| 1 | 12/17/2021 | REVISION 1 PERMIT / BID SET |
| - | 12/10/2021 | BID SET |
| - | 11/12/21 | PERMIT SET |

PROJECT NO: **DOT-200023**
DATE: **03/11/22**
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SHEET TITLE

**GENERAL NOTES & SITE DETAILS**

C500

SD PROJECT NO. 4250

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


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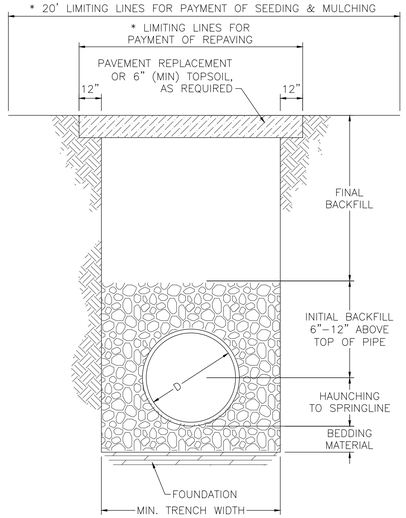



* LIMITING LINES FOR PAYMENT APPLY ONLY WHEN CONTRACT PROVIDES FOR UNIT PRICE PAYMENT OF PAVEMENT REPLACEMENT AND SEEDING & MULCHING.

TYP. TRENCH
CORRUGATED PE PIPE — 1
NOT TO SCALE

NOTES (DETAIL 1):

1. FOUNDATION: WHERE TRENCH BOTTOM IS UNSTABLE, CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER & REPLACE WITH A FOUNDATION OF CLASS I OR II MATERIAL AS DEFINED IN ASTM D2321, "STANDARD PRACTICE FOR INSTALLATION OF THERMOPLASTIC PIPE FOR SEWER & OTHER GRAVITY-FLOW APPLICATIONS", LATEST EDITION. AS AN ALTERNATIVE & AT THE DISCRETION OF THE ENGINEER, TRENCH BOTTOM MAY BE STABILIZED USING WOVEN GEOTEXTILE FABRIC.
2. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III, & INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.

UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MIN. BEDDING THICKNESS SHALL BE 4" FOR 4"-24" & 42"-48" PIPE & 6" FOR 30"-36" PIPE.

3. HAUNCHING & INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III, & INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
4. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MIN. RECOMMENDED TRENCH WIDTHS SHALL BE AS FOLLOWS:

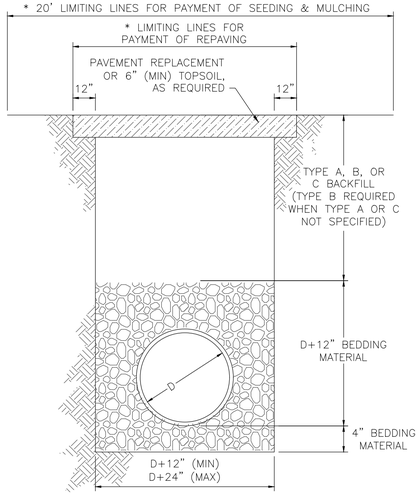
| NOMINAL ⌀ | MIN. WIDTH |
|---|---|
| 4" | 21" |
| 6" | 23" |
| 8" | 25" |
| 10" | 28" |
| 12" | 31" |
| 15" | 34" |
| 18" | 39" |
| 24" | 48" |
| 30" | 66" |
| 36" | 78" |
| 42" | 83" |
| 48" | 89" |
| 60" | 102" |

5. THE EXCAVATED TRENCH WIDTH TWELVE INCHES (12") ABOVE THE CONDUIT MAY BE INCREASED WITHOUT EXTRA COMPENSATION.

MINIMUM COVER: MIN. RECOMMENDED DEPTHS OF COVER FOR VARIOUS LIVE LOADING CONDITIONS ARE AS FOLLOWS. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE FROM TOP OF PIPE TO GROUND SURFACE.

| SURFACE LIVE LOADING CONDITION | MIN. COVER |
|---|---|
| H25 (FLEXIBLE PAVEMENT) | 12" ** |
| H25 (RIGID PAVEMENT) | 12" |
| E80 RAILWAY | 24" |
| HEAVY CONSTRUCTION | 48" |

** TOP OF PIPE TO BOTTOM OF BITUMINOUS PAVEMENT SECTION.

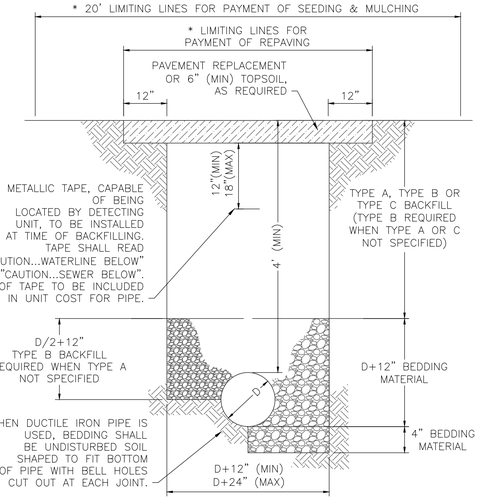



* LIMITING LINES FOR PAYMENT APPLY ONLY WHEN CONTRACT PROVIDES FOR UNIT PRICE PAYMENT OF PAVEMENT REPLACEMENT AND SEEDING & MULCHING.

TYP. TRENCH
FOR PVC
STORM & SANITARY PIPE — 2
NOT TO SCALE

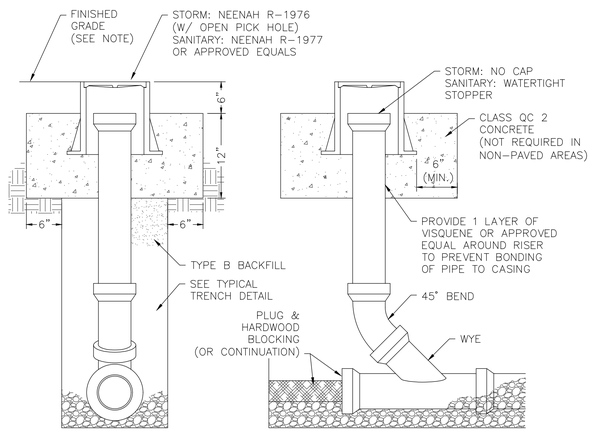
NOTES (DETAILS 2 & 3):

1. ITEM NUMBERS REFER TO STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIAL SPECIFICATIONS.
2. AGGREGATE FOR BEDDING IS NO. 57, NO. 6, NO. 67, NO. 68, OR NO. 7, ITEM 703.
3. TYPE A BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL AS SPECIFIED IN ITEM 304, GRADE A. TYPE A BACKFILL SHALL BE USED WHEN THE TRENCH IS 5' OR LESS FROM ANY PAVED OR GRAVEL SURFACE, OR BENEATH THE PAVEMENT OR GRAVEL. COMPACTION SHALL MEET THE REQUIREMENTS OF ITEM 203.
4. TYPE B BACKFILL SHALL BE NATURAL SOIL FREE FROM STONES LARGER THAN 2" ACROSS THEIR GREATEST DIMENSION, TOPSOIL, VEGETATION, DEBRIS, RUBBISH, OR FROZEN MATERIAL, COMPACTED TO 95% OF ITS MAXIMUM LABORATORY DRY WEIGHT.
5. TYPE C BACKFILL SHALL BE NATURAL SOIL FREE FROM STONES LARGER THAN 6" ACROSS THEIR GREATEST DIMENSION, TOPSOIL, VEGETATION, DEBRIS, RUBBISH, OR FROZEN MATERIAL, COMPACTED TO 90% OF ITS MAXIMUM LABORATORY DRY WEIGHT. WHEN APPROVED BY THE ENGINEER, STONES NO LARGER THAN ONE CUBIC FOOT MAY BE DEPOSITED AT LEAST 3' ABOVE THE TOP OF THE PIPE.
6. THE EXCAVATED TRENCH WIDTH 12" ABOVE THE CONDUIT MAY BE INCREASED WITHOUT EXTRA COMPENSATION.
7. RIGID PIPE SHALL BE DUCTILE IRON, THICKNESS CLASS 53, PRESSURE RATING 350. FLEXIBLE PIPE SHALL BE PVC C-900 DR14 FOR SIZES UP TO 12" AND PVC C-905 DR18 FOR LARGER SIZES.
8. WHEN CALLED FOR ON THE CONSTRUCTION DRAWINGS, ENCASEMENT SHALL BE CLASS C CONCRETE.
9. SECTIONS ARE SYMMETRICAL ABOUT THE CENTERLINE.
10. GRANULAR BEDDING AND BACKFILL SHALL NOT BE REQUIRED FOR DUCTILE IRON PIPE UNLESS WITHIN LIMITS REQUIRING GRANULAR BACKFILL FOR ROADS AND DRIVEWAYS.
11. COVER OVER PIPE SHALL BE AS SPECIFIED ON PLANS. UNLESS OTHERWISE SPECIFIED, ROOF DRAINS SHALL HAVE 30" MIN. COVER AND SANITARY SEWER SERVICES SHALL HAVE 48" MIN. COVER.



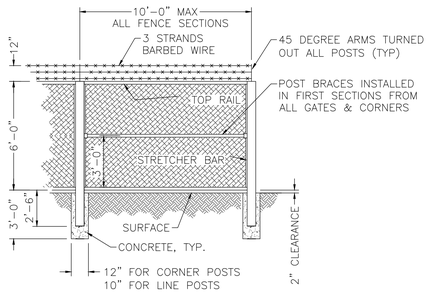

* LIMITING LINES FOR PAYMENT APPLY ONLY WHEN CONTRACT PROVIDES FOR UNIT PRICE PAYMENT OF PAVEMENT REPLACEMENT AND SEEDING & MULCHING.

TYP. TRENCH FOR WATER MAINS
& SEWER FORCE MAINS — 3
NOT TO SCALE




NOTE: CLEANOUT TOP OF CASTING SHALL BE SET FLUSH WITH FINISHED GRADE IN PAVEMENT AREAS OR 2" MIN. TO 4" MAX. ABOVE FINISHED GRADE IN NON-PAVED AREAS.

CLEANOUT — 4
NOT TO SCALE

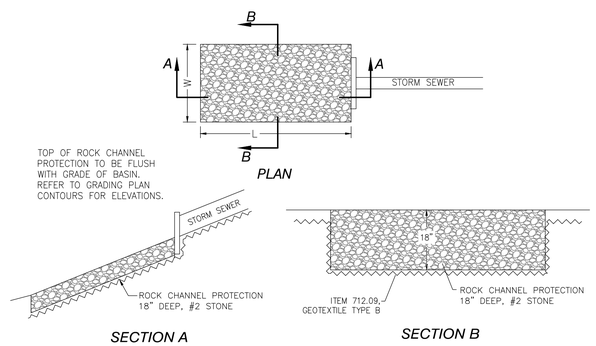



POSTS/RAILS SHALL BE AS FOLLOWS:
BRACE RAILS - 1 5/8" DIA.
LINE POSTS - 2 1/2" DIA.
CORNER POSTS - 2 1/2" DIA.

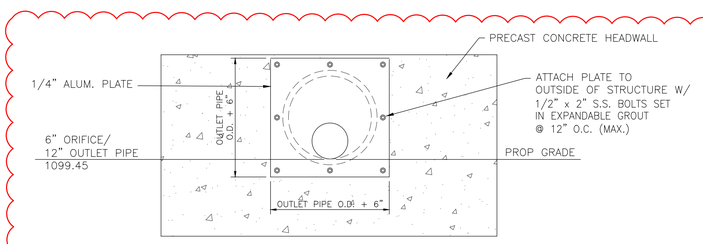
BARBED WIRE SHALL MEET ASTM A 121, TYPE Z, CLASS 3 GALVANIZING, AT 0.80 OUNCES PER SQUARE FOOT OF SURFACE.

CONNECT TO EX. FENCE WHERE APPLICABLE.

FENCE — 5
NOT TO SCALE




ROCK CHANNEL
PROTECTION DETAIL — 6
NOT TO SCALE




2

NOTES:
1. SILICONE CAULK SHALL BE APPLIED AT ALL SEAMS BETWEEN PLATES & STRUCTURE TO ACHIEVE WATERTIGHT CONDITION.
2. THE OUTLET CONTROL STRUCTURE SHALL BE MAINTAINED FOR THE LIFE OF THE STORM SYSTEM. UNDER NO CIRCUMSTANCES SHALL THE DETENTION BASIN BE PUMPED OR DRAINED INTO THE EXISTING DRAINAGE WAY OR EXISTING STORM SYSTEM WITHOUT PROPER FILTERING TO PREVENT SEDIMENT FROM POLLUTING EXISTING DRAINAGE SYSTEMS.

OUTLET CONTROL
ORIFICE PLATE — 7
NOT TO SCALE

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JMSA ARCHITECTURE
Jerome M. Scott Architects
1020 Goodale Blvd
Columbus, Ohio
43212

STATE OF OHIO — GLENN E. DECKER 57924 — REGISTERED PROFESSIONAL ENGINEER

11-12-2021
Registered Engineer — Date

# DOT-200023
# ODOT - EATON OUTPOST

5656 US-127 Eaton, Ohio 45320

| MARK | DATE | DESCRIPTION |
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| 3 | 03/11/2022 | REVISION 3 |
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| - | 11/12/21 | PERMIT SET |

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DATE: **03/11/22**
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SHEET TITLE

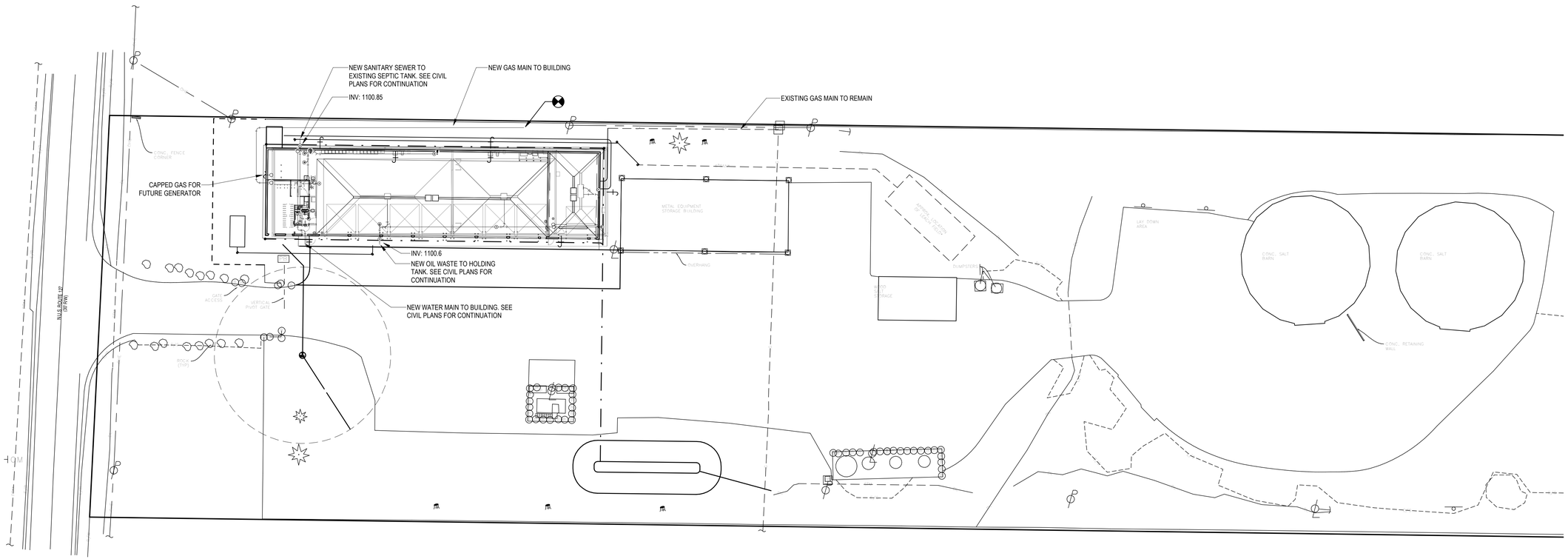
## SITE DETAILS (CONT.)

# C501

SD PROJECT NO. 4250

S:\Jerome Scott 4250 Eaton ODOT Outpost\Dwg\ODOT Eaton Outpost 4250 MASTER.dwg 3/10/2022 4:48 PM

| PLAN NOTES | |
|---|---|
| # | NOTE |




1 PSU PLUMBING SITE UTLITY PLAN
1" = 30'-0"
0 30' 60' 120'

GENERAL NOTES:
THESE DRAWINGS SHOW GAS PIPING WORK ONLY. SEE SITE PLANS FOR ALL OTHER UTILITIES.


JMSA ARCHITECTURE

Jerome M. Scott Architects
1020 Goodale Blvd
Columbus, Ohio
43212

Dynamix Engineering
A VEREGY COMPANY
855 Grandview Avenue, 3rd Floor Columbus, OH 43215
Phone: (614) 443-1178 Fax: (614) 443-1594
Email: dynamix@dynamix-ltd.com
DEL #21-179


DOUGLAS SMITH
REGISTERED PROFESSIONAL ENGINEER

DOT-200023 ODOT - EATON OUTPOST

CONSTRUCTION DOCUMENTS

5656 US-127 Eaton, Ohio 45320

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 3 | 03/11/22 | Revision 3 |
| 2 | 03/11/22 | Revision 2 / Conformance Set |
| 1 | 12/17/21 | Revision 1 Permit / Bid Set |
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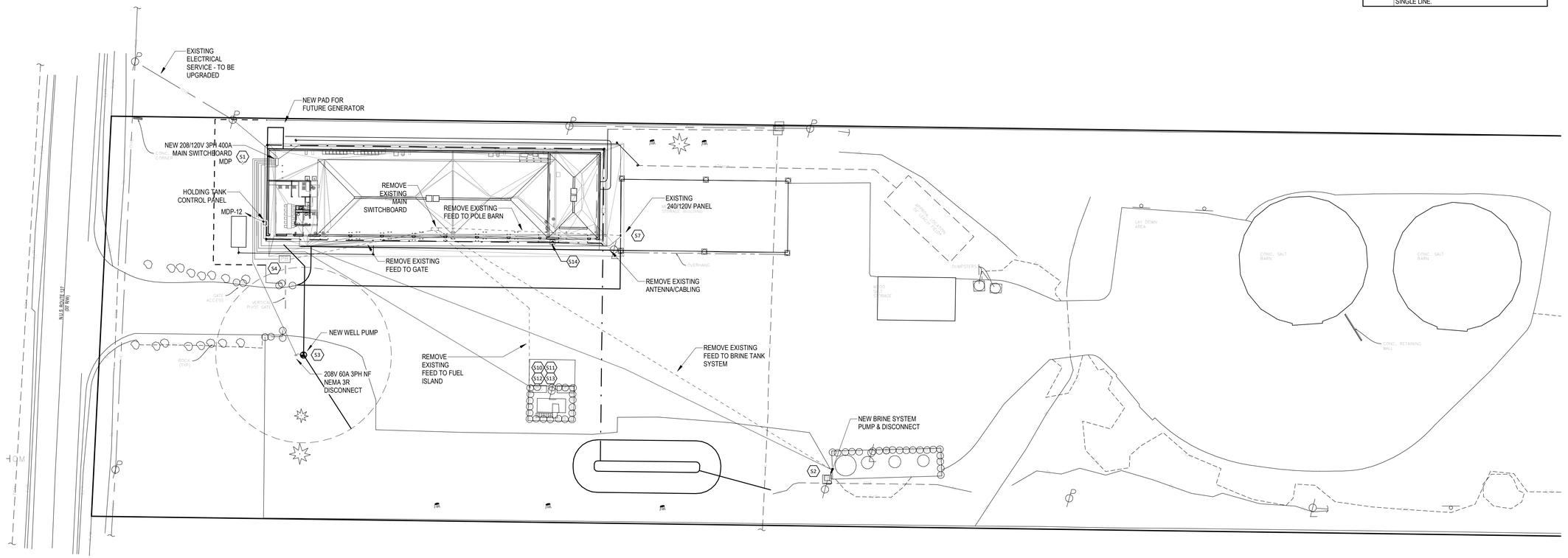
SHEET TITLE

# PLUMBING SITE UTILITY PLAN

PSU

| PLAN NOTES | |
|---|---|
| # | NOTE |
| S1 | SERVICE UPGRADE - WIRE & TRANSFORMER REPLACEMENT BY UTILITY. REMOVE ALL REMAINING FEEDS TO FORMER MAIN DISTRIBUTION PANEL AND PROVIDE NEW SERVICE ENTRANCE FEEDER UNDERGROUND TO NEW METER SOCKET & CT CABINET PER UTILITY'S REQUIREMENTS. NEW METER & CT'S BY UTILITY. PROVIDE FEED TO NEW MAIN DISTRIBUTION PANEL - SEE FEEDER SCHEDULE FOR FURTHER INFORMATION. |
| S2 | COORDINATE FINAL LOCATION WITH OWNER IN FIELD - PROVIDE 30A NF NEMA 3R DISCONNECT SWITCH. |
| S3 | NEW WELL PUMP. 208V, 3-PH, 5 HP. RUN (3) #10 AND (1) #10 GND IN 3/4" CONDUIT AND PROVIDE 30A NF NEMA 3R DISCONNECT SWITCH. |
| S4 | EXISTING SECURITY GATE. RUN (2) #10 AND (1) #10 GND IN 1" CONDUIT, CIRCUIT EL1-33. |
| S5 | (1) 2" SPARE CONDUIT FROM MEP AREA TO GENERATOR PAD & FOR FUTURE GENERATOR CONNECTION. |
| S7 | EXISTING 240/120V PANEL IN POLE BARN. PROVIDE NEW FEEDER FROM NEW STEP-UP TRANSFORMER IN NEW OUTPOST BUILDING AS SHOWN ON FEEDER SCHEDULE. |
| S10 | EXISTING FUEL STATION POLE LIGHT. RUN (2) #10 AND (1) #10 GND IN 1" CONDUIT, CIRCUIT EL1-26. |
| S11 | EXISTING GAS PUMP WITH INTEGRAL DISC SWITCH. WIRE THROUGH SHUTOFF CONTACTOR IN READY ROOM. RUN (2) #8 AND #8 GND IN 1" CONDUIT, CIRCUIT EL1-28. PROVIDE SEAL-OFFS PER NEC 514.9. |
| S12 | EXISTING FUEL STATION CARD READER. RUN (2) #8 AND (1) #8 GND IN 1" CONDUIT, CIRCUIT EL1-12. |
| S13 | EXISTING DIESEL PUMP WITH INTEGRAL DISC SWITCH. WIRE THROUGH SHUTOFF CONTACTOR IN READY ROOM. RUN (2) #8 AND #8 GND IN 1" CONDUIT, CIRUIT EL1-30. PROVIDE SEAL-OFFS PER NEC 514.9. |
| S14 | NEW FUEL E-STOP. RUN (2) #10 AND (1) #10 GND IN 1" CONDUIT, CIRCUIT EL1-34. PROVIDE WEATHER&RESISTANT PUSHBUTTON KILL SWITCH MOUNTED ON BOLLARD AT LOCATION SHOWN, WITHIN 100' OF FUEL PUMPS BUT NOT WITHIN 20' OF PUMPS - VERIFY FINAL LOCATION & MOUNTING HEIGHT WITH OWNER IN FIELD. WIRE TO FUEL SHUT OFF CONTACTOR LOCATED IN THE READY ROOM AS REQUIRED. LABEL PUSHBUTTON "FUEL SHUT OFF". PROVIDE A MINIMUM 12"X12" SQUARE ENGRAVE RED LABEL WITH 4" HIGH WHITE LETTERS MOUNTED ON BOLLARD ABOVE SWITCH. PROVIDE CONTROL CIRCUITRY SO THE FUEL SHUTOFF SYSTEM CANNOT BE RESET AT THE READY ROOM. COORDINATE EXACT LOCATION IN FIELD. |
| S17 | NEW SERVICE ENTRANCE FEEDER. REFER TO SINGLE LINE. |




1 ESU ELECTRICAL SITE UTILITY PLAN
1" = 30'-0" 0 30' 60' 120'


JMSA ARCHITECTURE

Jerome M. Scott Architects
1020 Goodale Blvd
Columbus, Ohio
43212

Dynamix Engineering
A VEREGY COMPANY
855 Grandview Avenue, 3rd Floor Columbus, OH 43215
Phone: (614) 443-1178 Fax: (614) 443-1594
Email: dynamix@dynamix-ltd.com
DEL #21-179


DOUGLAS E. SMITH
REGISTERED ARCHITECT
ARIZONA

DOT-200023 ODOT - EATON OUTPOST

CONSTRUCTION DOCUMENTS

5656 US-127 Eaton, Ohio 45320

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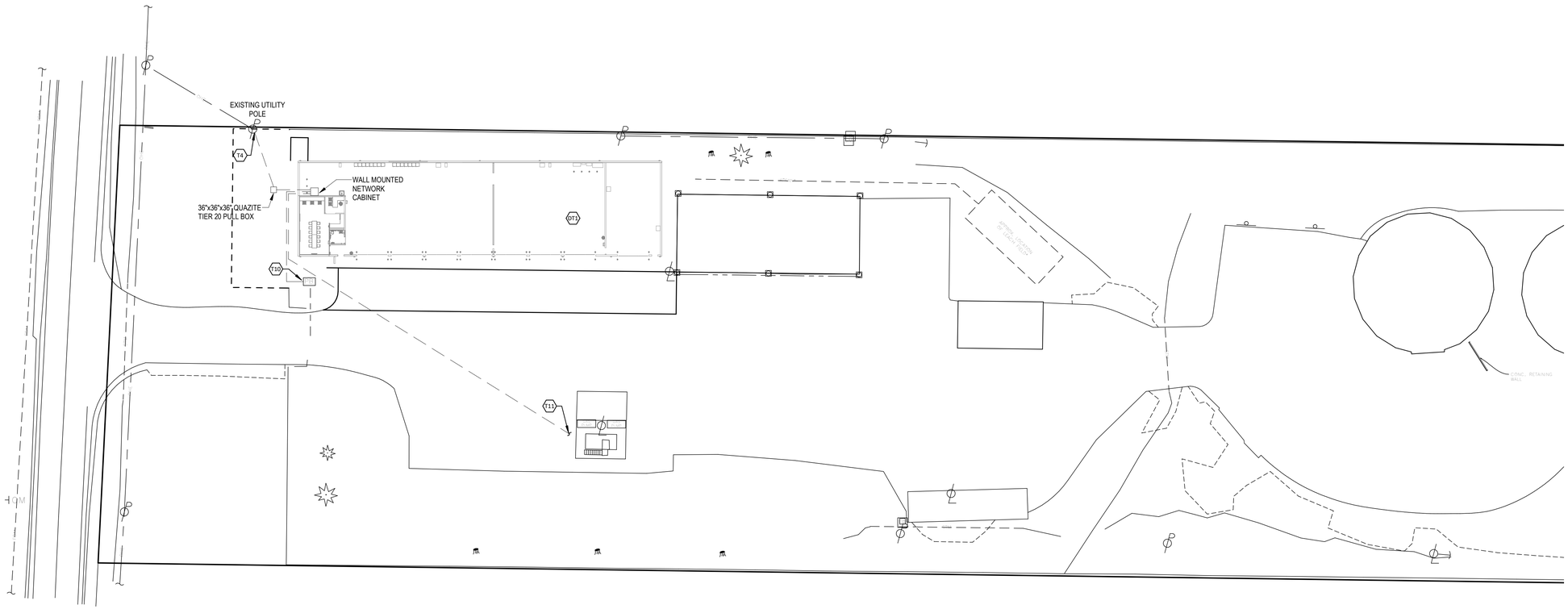
SHEET TITLE

ELECTRICAL SITE UTILITY PLAN

ESU




1 TSU TELECOMMUNICATIONS SITE PLAN
1" = 30'-0"
0 30' 60' 120'

**PLAN NOTES**

| # | NOTE |
|---|---|
| DT1 | REMOVE SECURITY AND ACCESS CONTROL EQUIPMENT FROM BUILDING TO BE DEMOLISHED. TURN OVER TO NWOSS FOR REINSTALLATION. |
| T4 | (3) 4" UNDERGROUND CONDUITS TO UTILITY POLE. ONE FOR FIBER OPTIC CABLE, ONE FOR TELEPHONE SERVICE AND ONE SPARE. ALL CONDUITS BELOW PAVING OR SIDEWALKS SHALL BE CONCRETE ENCASED. |
| T10 | PROVIDE 2-1/2" CONDUIT WITH PULL STRING TO GATE CONTROLLER AND (1) 1-1/2" WITH PULL STRING FOR FUTURE CARD READER AND INTERCOM. COORDINATE LOCATIONS IN FIELD. |
| T11 | PROVIDE 2-1/2" CONDUIT WITH PULL STRING FOR FUTURE LOW VOLTAGE CABLING AND (1) 1" CONDUIT WITH PULL STRING AND (1) WET RATED CAT 6 CABLE FOR FUEL MANAGER SYSTEM. TERMINATE AT BOTH ENDS. COORDINATE STUB UP LOCATIONS IN FIELD. |

2

JMSA ARCHITECTURE

Jerome M. Scott Architects
1020 Goodale Blvd
Columbus, Ohio
43212

Dynamix Engineering
A VEREGY COMPANY
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Phone: (614) 443-1178 Fax: (614) 443-1594
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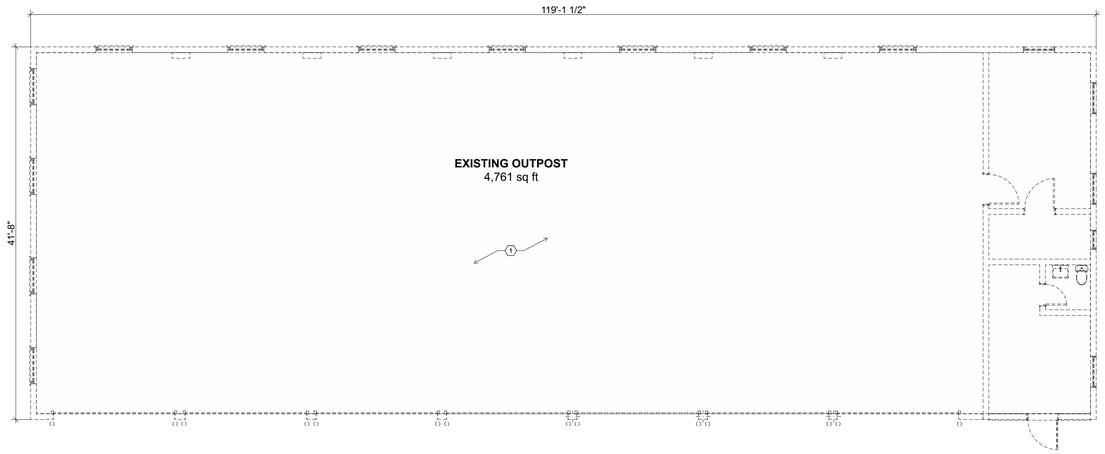
SHEET TITLE

## TECHNOLOGY SITE UTILITY PLAN

# TSU




C2
SP-A-001 EXISTING OUTPOST DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

## DEMOLITION PLAN CODED NOTES:

① DEMO EXISTING MASONRY AND STEEL STRUCTURE INCLUDING SLAB AND ALL ASSOCIATED FOUNDATIONS AND UTILITIES.

## SPECIFICATION NOTES:

1. BUILDINGS / STRUCTURES SHOWN ARE FOR REFERENCE ONLY. FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID.

**2. REFER TO SPECIFICATION 00 31 26 FOR EXISTING HAZARDOUS MATERIALS INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL ABATEMENT OF HAZARDOUS MATERIALS AS REQUIRED TO COMPLETE THE DEMOLITION SCOPE IN ACCORDANCE WITH REGULATORY REQUIREMENTS.**

3. REFER TO SITE UTILITY PLANS FOR ADDITIONAL NOTES REGARDING DEMOLITION OF EXISTING SITE UTILITIES.

4. COORDINATE ALL WORK WITH CIVIL PLANS.

JMSA ARCHITECTURE

**Jerome M. Scott Architects**
1020 Goodale Blvd
Columbus, Ohio
43212

STATE OF OHIO
DANIEL BOYNE
1218592
Exp. 12/31/2023
REGISTERED ARCHITECT

DOT-200023
ODOT - EATON OUTPOST

5656 US-127 Eaton, Ohio 45320

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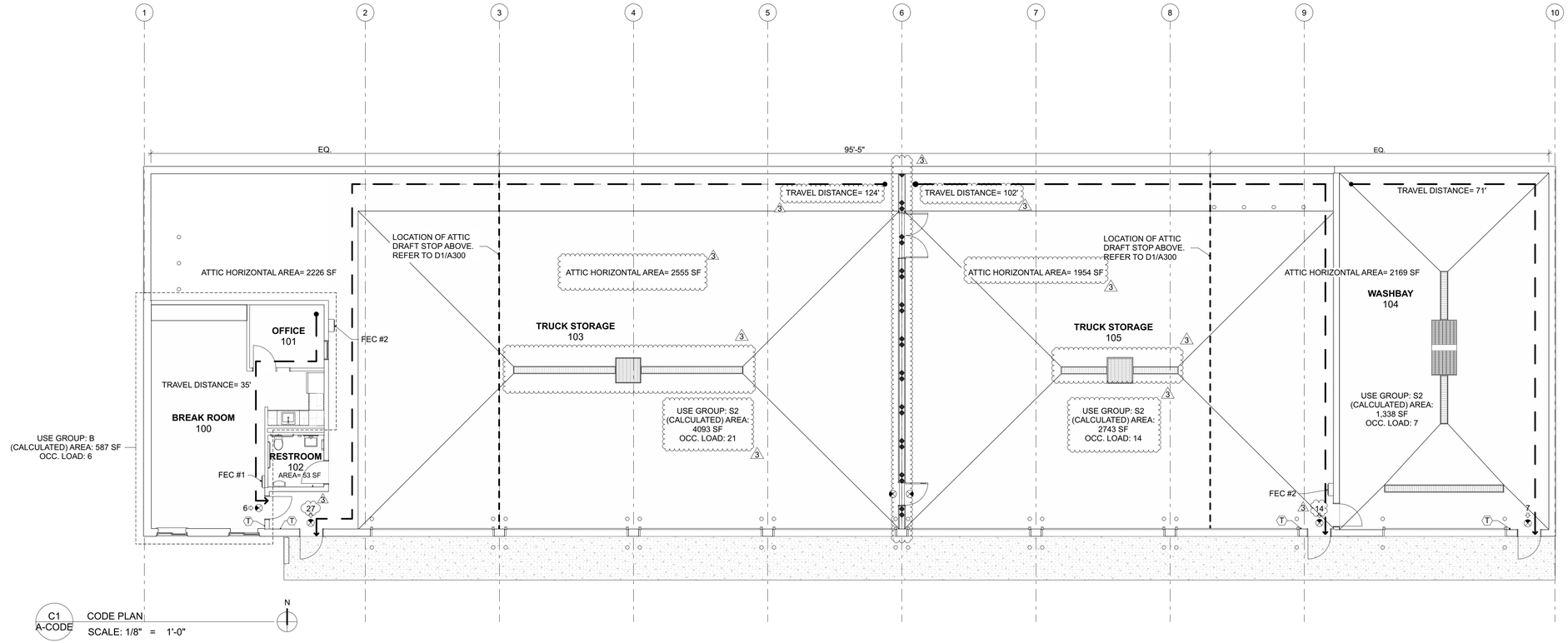
**EXISTING BUILDING DEMOLITION PLANS**

SP-A-001




C1
A-CODE
CODE PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

— — — : INDICATES EGRESS PATH

: INDICATES 2-HR FIRE BARRIER (U.L. U301)

* FEC # 1: 5 LB MULTI-PURPOSE FIRE-EXTINGUISHER AND SEMI-RECESSED CABINET. REFER TO SPEC 10 44 13 AND 10 44 16.

* FEC # 2: 10 LB MULTI-PURPOSE FIRE-EXTINGUISHER AND SURFACE-MOUNTED CABINET. REFER TO SPEC 10 44 13 AND 10 44 16.

(T) : TACTILE EXIT SIGN. REFER TO SHEET A-500

: 26 50 00 ILLUMINATED EXIT SIGN (REFER TO ELECTRICAL)


JMSA ARCHITECTURE

**Jerome M. Scott Architects**
1020 Goodale Blvd
Columbus, Ohio
43212


STATE OF OHIO
DANIEL BOYNE
1218692
Exp. 12/31/2023
REGISTERED ARCHITECT

# DOT-200023
# ODOT - EATON OUTPOST

5656 US-127 Eaton, Ohio 45320

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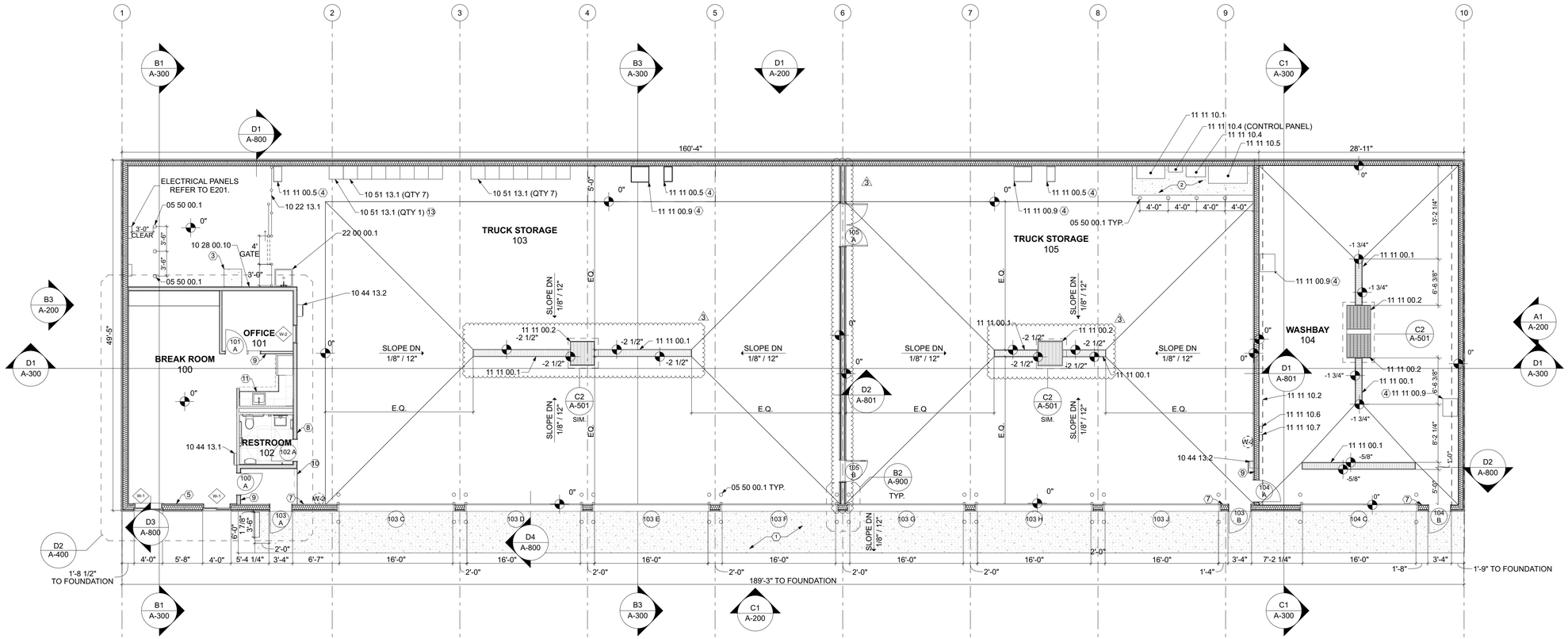
**CODE PLAN**

# A-CODE




D1 A-100 FIRST FLOOR PLAN

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

N

## PLAN GENERAL NOTES:

1. JOINT SEALANT (07 92 00) SHALL BE APPLIED AT ALL JOINTS OF DISSIMILAR MATERIAL.
2. ALL OPENINGS AND THE EQUIPMENT THROUGH OPENINGS MUST BE COORDINATED. SEE STRUCTURAL AND MEP DRAWINGS. COORDINATE FINAL LOCATIONS WITH ARCHITECT.
3. REFER TO CIVIL DRAWINGS FOR CONTINUATION AND LAYOUT OF EXTERIOR WALLS, STOOPS, CURBS, ETC.
4. REFER TO STRUCTURAL DRAWINGS FOR CONTROL JOINTS IN INTERIOR CONCRETE SLABS (03 30 00). COORDINATE CONCRETE JOINTS WITH THE FINISH FLOOR MATERIALS.
5. CUT HOLES IN WALL PANELS AND PROVIDE WEATHERTIGHT FLASHING BOOTS FOR ALL ROOF AND WALL PENETRATIONS. CONTRACTOR IS RESPONSIBLE FOR SEALING ALL OTHER PENETRATIONS WHERE BOOT IS NOT FEASIBLE. THE FINAL WEATHER TIGHTNESS OF THE BUILDING IS THE RESPONSIBILITY OF THE CONTRACTOR.
6. PROVIDE BLOCKING FOR OVERHEAD DOOR OPENERS, MOTORS, SHAFT SUPPORTS, TRACKS, AND OPERATORS.
7. ALL DOORS TO BE LOCATED WITH OUTSIDE EDGE OF FRAME 4" FROM FINISHED FACE OF ADJACENT PARTITION U.N.O.
8. PROVIDE SUPPORT STEEL FOR ALL HVAC EQUIPMENT AS RECOMMENDED BY MANUFACTURER.
9. COORDINATE UNDERGROUND UTILITIES WITH THE DEPTH OF TRENCH DRAINS (11 11 00).
10. FINAL ELEVATIONS FOR EACH OF THE TRENCH DRAINS (11 11 00.1) AND CATCH BASINS TO BE COORDINATED WITH THE INSTALLATIONS OF THE CONCRETE FLOORS (03 30 00).
11. ALL SLOPED SLABS SHALL HAVE A CONSISTANT SLOPE.
12. COORDINATE INSTALLATION OF THE TRENCH DRAINS WITH CONCRETE FLOOR CONTROL JOINTS.
13. ALL FURNISHINGS TO BE PROVIDED BY CONTRACTOR U.N.O. REFER TO SPECIFICATION 12 51 00.
14. ALL FASTENERS, HARDWARE, CONDUIT, COVER PLATES, ETC. LOCATED IN WASHBAY TO BE STAINLESS STEEL UNLESS SPECIFICALLY APPROVED BY ARCHITECT IN WRITING.

## PLAN CODED NOTES:

1. REINFORCED CONCRETE APRON/STOOP. SLOPE DOWN 1/8" PER FOOT FROM BUILDING. REFER TO STRUCTURAL.
2. PROVIDE 4" HIGH CONCRETE HOUSEKEEPING PAD AT WASHBAY EQUIPMENT, COORDINATE FINAL DIMENSIONS WITH EQUIPMENT.
3. PROVIDE 4" HIGH CONCRETE HOUSEKEEPING PADAT MECHANICAL AND/OR ELECTRICAL EQUIPMENT. COORDINATE FINAL DIMENSIONS AND LOCATION WITH ARCHITECT.
4. COORDINATE FINAL MOUNTING HEIGHT/LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
5. PROVIDE HORIZONTAL WOOD BLOCKING AT 4', 6', AND 8'. A.F.F. FOR FUTURE TV MOUNT (BY OWNER).
6. DENOTES COUNTERTOP GROMMET.
7. TACTILE EXIT SIGN. REFER TO SHEET A-500.
8. TACTILE RESTROOM SIGN. REFER TO SHEET A-500.
9. ROOM NAME SIGN. REFER TO SHEET A-500.
10. EXTENTS OF EPOXY FLOORING SYSTEM. PROVIDE KEYED EDGE TRANSITION.
11. CONTINUE EPOXY FLOORING AND INTERNAL BASE BELOW AND BEHIND BASE CABINETS.
12. LOCATION OF IN-GROUND LOOP DETECTION FOR UNDERCARRIAGE WASH.
13. ACCESSIBLE LOCKER. REFER TO DETAIL D4/ A-500.

## SPECIFICATION NOTES:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 03 30 00.1 | CAST IN-PLACE CONCRETE | 07 41 13.4 | METAL ROOF RIDGE VENT | 09 30 00.1 | CERAMIC TILE | 11 11 00.1 | TRENCH DRAIN |
| 03 30 00.3 | VAPOR BARRIER | 07 41 13.5 | CAST-IRON DOWNSPOUT BOOT | 09 51 13.1 | ACOUSTICAL CEILING TILE | 11 11 00.2 | TRENCH DRAIN CATCH BASIN |
| 03 30 00.4 | GRAVEL BASE | 07 41 13.6 | METAL FASCIA | 09 65 13.1 | RESILIENT BASE | 11 11 00.5 | COMPRESSED AIR REEL |
| 03 30 00.7 | EXPANSION JT | 07 41 13.7 | UNDERLAYMENT | 09 67 00.1 | EPOXY FLOORING SYSTEM | 11 11 00.9 | WATER REEL AND HOSE |
| 03 30 00.8 | GROUT | 07 41 13.8 | PERFORATED METAL SOFFIT PANEL | 09 77 00.1 | FRP PANELS | 11 11 10.1 | PRESSURE WASHER |
| 05 50 00.1 | GALVANIZED STEEL BOLLARD W/ COVER | 07 42 13.1 | METAL WALL PANELS | 09 77 00.2 | INTERLOCKING PVC PANELS | 11 11 10.2 | PRESSURE WASHER TROLLEY SYSTEM |
| 05 50 00.2 | HDPE BOLLARD COVER | 07 42 13.2 | METAL LINER PANELS | 09 96 00.1 | EPOXY PAINT | 11 11 10.3 | UNDERCARRIAGE WASH |
| 06 10 00.1 | WOOD FRAMING | 07 62 00.1 | METAL FLASHING | 10 11 00.1 | MARKER BOARD | 11 11 10.4 | VEHICLE WASH PUMP |
| 06 10 00.2 | WOOD FURRING @ 24" O.C. | 07 72 53.1 | SNOW GUARD | 10 11 00.2 | TACK BOARD | 11 11 10.5 | VECHICLE WASH TANK |
| 06 16 00.1 | 5/8" SHEATHING | 07 92 00.1 | JOINT SEALANTS | 10 22 13.1 | WIRE MESH PARTITION | 11 11 10.6 | PRESSURE WASHER REMOTE SYSTEM |
| 06 16 00.2 | ROOF SHEATHING | 08 11 13.1 | HOLLOW METAL DOORS/FRAMES | 10 28 00.1 | TOILET TISSUE DISPENSER | 11 11 10.7 | VEHICLE WASH SWITCH |
| 06 41 16.1 | CABINET | 08 22 20.1 | FIBERGLASS DOORS/FRAMES | 10 28 00.2 | PAPER TOWEL DISPENSER | 11 30 13.1 | MICROWAVE |
| 06 41 16.2 | SOLID SURFACE COUNTERTOP | 08 31 13.1 | ACCESS PANEL | 10 28 00.3 | WASTE RECEPTACLE | 11 30 13.2 | REFRIGERATOR |
| 06 41 16.3 | SOLID SURFACE WINDOW SILL | 08 36 13.1 | OVERHEAD SECTIONAL DOORS | 10 28 00.4 | SOAP DISPENSER | 12 21 13.1 | HORIZONTAL LOUVER BLINDS |
| 07 21 00.1 | FOUNDATION INSULATION | 08 36 14.1 | WASHBAY OVERHEAD DOORS | 10 28 00.5 | GRAB BAR | 22 00 00.1 | PLUMBING FIXTURE(REFER TO PLUMBING DRAWINGS) |
| 07 21 00.2 | BATT INSULATION | 08 43 13.1 | ALUMINUM FRAME STOREFRONTS | 10 28 00.6 | SANITARY NAPKIN DISPOSAL | 22 47 00.1 | BOTTLE FILLER |
| 07 21 00.3 | RIGID INSULATION | 08 51 13.1 | ALUMINUM WINDOWS | 10 28 00.7 | COAT HOOK | 23 34 00.1 | EXHAUST FAN (REFER TO MECHANICAL) |
| 07 21 00.4 | INSULATION BAFFLE | 08 80 00.1 | GLAZING | 10 28 00.8 | FRAMED MIRROR UNIT | 23 37 33 | HVAC LOUVERS (REFER TO MECHANICAL) |
| 07 25 00.1 | AIR BARRIER | 09 22 16.1 | METAL "Z" FURRING | 10 28 00.9 | UNDER LAVATORY GUARD | 26 00 00.1 | LIGHT FIXTURES (REFER TO ELECTRICAL) |
| 07 41 13.1 | METAL ROOF PANELS | 09 29 00.1 | 5/8" GYPSUM BOARD | 10 28 00.10 | MOP HOLDER / SHELF | 33 46 00.1 | FOUNDATION DRAIN |
| 07 41 13.2 | METAL GUTTERS | 09 29 00.2 | 1/2" GYPSUM BOARD | 10 44 13.1 | SEMI-RECESSED FIRE EXTINGUISHER CABINET | | |
| 07 41 13.3 | METAL DOWNSPOUTS | 09 29 00.3 | SOUND ATTENUATION BLANKETS | 10 44 13.2 | SURFACE-MTD. FIRE EXTINGUISHER CABINET | | |
| | | 09 29 00.4 | TILE BACKING PANELS | 10 51 13.1 | LOCKERS | | |


JMSA ARCHITECTURE

**Jerome M. Scott Architects**
1020 Goodale Blvd
Columbus, Ohio
43212


STATE OF OHIO
DANIEL BOYNE
12186592
Exp. 12/31/2023
REGISTERED ARCHITECT

# DOT-200023
# ODOT - EATON OUTPOST

5656 US-127 Eaton, Ohio 45320

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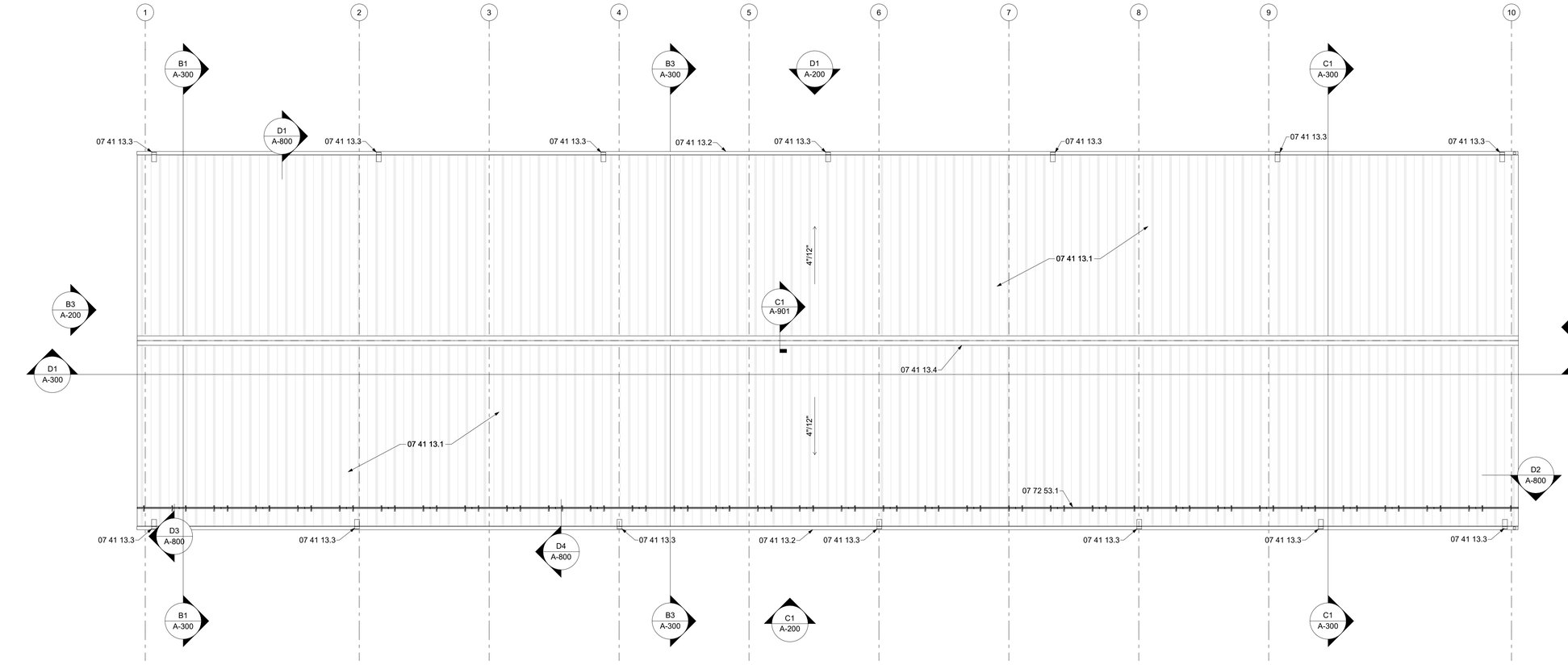
SHEET TITLE

## FIRST FLOOR PLAN

A-100




1 / A-101 ROOF PLAN
SCALE: 1/8" = 1'-0"

N

## PLAN GENERAL NOTES:

1. JOINT SEALANT (07 92 00) SHALL BE APPLIED AT ALL JOINTS OF DISSIMILAR MATERIAL.
2. ALL OPENINGS AND THE EQUIPMENT THROUGH OPENINGS MUST BE COORDINATED. SEE STRUCTURAL AND MEP DRAWINGS. COORDINATED FINAL LOCATIONS WITH ARCHITECT.
3. REFER TO CIVIL DRAWINGS FOR CONTINUATION AND LAYOUT OF EXTERIOR WALLS, STOOPS, CURBS, ETC.
4. REFER TO STRUCTURAL DRAWINGS FOR CONTROL JOINTS IN INTERIOR CONCRETE SLABS (03 30 00). COORDINATE CONCRETE JOINTS WITH THE FINISH FLOOR MATERIALS.
5. CUT HOLES IN WALL PANELS AND PROVIDE WEATHERTIGHT FLASHING BOOTS FOR ALL ROOF AND WALL PENETRATIONS. CONTRACTOR IS RESPONSIBLE FOR SEALING ALL OTHER PENETRATIONS WHERE BOOT IS NOT FEASIBLE. THE FINAL WEATHER TIGHTNESS OF THE BUILDING IS THE RESPONSIBILITY OF THE CONTRACTOR.
6. PROVIDE BLOCKING FOR OVERHEAD DOOR OPENERS, MOTORS, SHAFT SUPPORTS, TRACKS, AND OPERATORS.
7. ALL DOORS TO BE LOCATED WITH OUTSIDE EDGE OF FRAME 4" FROM FINISHED FACE OF ADJACENT PARTITION U.N.O.
8. PROVIDE SUPPORT STEEL FOR ALL HVAC EQUIPMENT AS RECOMMENDED BY MANUFACTURER.
9. COORDINATE UNDERGROUND UTILITIES WITH THE DEPTH OF TRENCH DRAINS (11 11 00).
10. FINAL ELEVATIONS FOR EACH OF THE TRENCH DRAINS (11 11 00.1) AND CATCH BASIN TO BE COORDINATED WITH THE INSTALLATIONS OF THE CONCRETE FLOORS (03 30 00).
11. ALL SLOPED SLABS SHALL HAVE A CONSISTANT SLOPE.
12. COORDINATE INSTALLATION OF THE TRENCH DRAINS WITH CONCRETE FLOOR CONTROL JOINTS.
13. ALL FURNISHINGS TO BE PROVIDED BY CONTRACTOR U.N.O. REFER TO SPECIFICATION 12 51 00.
14. ALL FASTENERS, HARDWARE, CONDUIT, COVER PLATES, ETC. LOCATED IN WASHBAY TO BE STAINLESS STEEL UNLESS SPECIFICALLY APPROVED BY ARCHITECT IN WRITING.

## SPECIFICATION NOTES:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 03 30 00.1 | CAST IN-PLACE CONCRETE | 07 41 13.4 | METAL ROOF RIDGE VENT | 09 30 00.1 | CERAMIC TILE | 11 11 00.1 | TRENCH DRAIN |
| 03 30 00.3 | VAPOR BARRIER | 07 41 13.5 | CAST-IRON DOWNSPOUT BOOT | 09 51 13.1 | ACOUSTICAL CEILING TILE | 11 11 00.2 | TRENCH DRAIN CATCH BASIN |
| 03 30 00.4 | GRAVEL BASE | 07 41 13.6 | METAL FASCIA | 09 65 13.1 | RESILIENT BASE | 11 11 00.5 | COMPRESSED AIR REEL |
| 03 30 00.7 | EXPANSION JT | 07 41 13.7 | UNDERLAYMENT | 09 67 00.1 | EPOXY FLOORING SYSTEM | 11 11 00.9 | WATER REEL AND HOSE |
| 03 30 00.8 | GROUT | 07 41 13.8 | PERFORATED METAL SOFFIT PANEL | 09 77 00.1 | FRP PANELS | 11 11 10.1 | PRESSURE WASHER |
| 05 50 00.1 | GALVANIZED STEEL BOLLARD W/ COVER | 07 42 13.1 | METAL WALL PANELS | 09 77 00.2 | INTERLOCKING PVC PANELS | 11 11 10.2 | PRESSURE WASHER TROLLEY SYSTEM |
| 05 50 00.2 | HDPE BOLLARD COVER | 07 42 13.2 | METAL LINER PANELS | 09 96 00.1 | EPOXY PAINT | 11 11 10.3 | UNDERCARRIAGE WASH |
| 06 10 00.1 | WOOD FRAMING | 07 62 00.1 | METAL FLASHING | 10 11 00.1 | MARKER BOARD | 11 11 10.4 | VEHICLE WASH PUMP |
| 06 10 00.2 | WOOD FURRING @ 24" O.C. | 07 72 53.1 | SNOW GUARD | 10 11 00.2 | TACK BOARD | 11 11 10.5 | VECHICLE WASH TANK |
| 06 16 00.1 | 5/8" SHEATHING | 07 92 00.1 | JOINT SEALANTS | 10 22 13.1 | WIRE MESH PARTITION | 11 11 10.6 | PRESSURE WASHER REMOTE SYSTEM |
| 06 16 00.2 | ROOF SHEATHING | 08 11 13.1 | HOLLOW METAL DOORS/FRAMES | 10 28 00.1 | TOILET TISSUE DISPENSER | 11 11 10.7 | VEHICLE WASH SWITCH |
| 06 41 16.1 | CABINET | 08 22 20.1 | FIBERGLASS DOORS/FRAMES | 10 28 00.2 | PAPER TOWEL DISPENSER | 11 30 13.1 | MICROWAVE |
| 06 41 16.2 | SOLID SURFACE COUNTERTOP | 08 31 13.1 | ACCESS PANEL | 10 28 00.3 | WASTE RECEPTACLE | 11 30 13.2 | REFRIGERATOR |
| 06 41 16.3 | SOLID SURFACE WINDOW SILL | 08 36 13.1 | OVERHEAD SECTIONAL DOORS | 10 28 00.4 | SOAP DISPENSER | 12 21 13.1 | HORIZONTAL LOUVER BLINDS |
| 07 21 00.1 | FOUNDATION INSULATION | 08 36 14.1 | WASHBAY OVERHEAD DOORS | 10 28 00.5 | GRAB BAR | 22 00 00.1 | PLUMBING FIXTURE(REFER TO PLUMBING DRAWINGS) |
| 07 21 00.2 | BATT INSULATION | 08 43 13.1 | ALUMINUM FRAME STOREFRONTS | 10 28 00.6 | SANITARY NAPKIN DISPOSAL | 22 47 00.1 | BOTTLE FILLER |
| 07 21 00.3 | RIGID INSULATION | 08 51 13.1 | ALUMINUM WINDOWS | 10 28 00.7 | COAT HOOK | 23 34 00.1 | EXHAUST FAN (REFER TO MECHANICAL) |
| 07 21 00.4 | INSULATION BAFFLE | 08 80 00.1 | GLAZING | 10 28 00.8 | FRAMED MIRROR UNIT | 23 37 33 | HVAC LOUVERS (REFER TO MECHANICAL) |
| 07 25 00.1 | AIR BARRIER | 09 22 16.1 | METAL "Z" FURRING | 10 28 00.9 | UNDER LAVATORY GUARD | 26 00 00.1 | LIGHT FIXTURES (REFER TO ELECTRICAL) |
| 07 41 13.1 | METAL ROOF PANELS | 09 29 00.1 | 5/8" GYPSUM BOARD | 10 28 00.10 | MOP HOLDER / SHELF | 33 46 00.1 | FOUNDATION DRAIN |
| 07 41 13.2 | METAL GUTTERS | 09 29 00.2 | 1/2" GYPSUM BOARD | 10 44 13.1 | SEMI-RECESSED FIRE EXTINGUISHER CABINET | | |
| 07 41 13.3 | METAL DOWNSPOUTS | 09 29 00.3 | SOUND ATTENUATION BLANKETS | 10 44 13.2 | SURFACE-MTD. FIRE EXTINGUISHER CABINET | | |
| | | 09 29 00.4 | TILE BACKING PANELS | 10 51 13.1 | LOCKERS | | |


**JMSA ARCHITECTURE**

**Jerome M. Scott Architects**
1020 Goodale Blvd
Columbus, Ohio
43212


STATE OF OHIO
DANIEL BOYNE
12158052
Exp. 12/31/2023
REGISTERED ARCHITECT

# DOT-200023
# ODOT - EATON OUTPOST

5656 US-127 Eaton, Ohio 45320

| MARK | DATE | DESCRIPTION |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| 3 | 3/11/2022 | REVISION 3 |
| 2 | 3/11/2022 | REVISION 2 / CONFORMED SET |
| 1 | 12/17/2021 | REVISION 1 PERMIT / BID SET |
| - | 12/10/2021 | BID SET |
| - | 11/12/2021 | PERMIT SET |

PROJECT NO: **DOT-200023**
DATE: **12/10/2021**
DRAWN BY: **MWM**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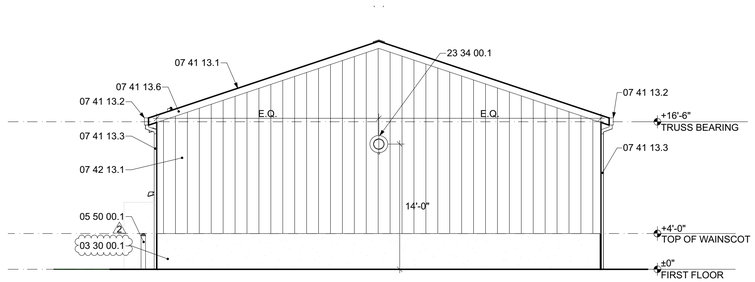
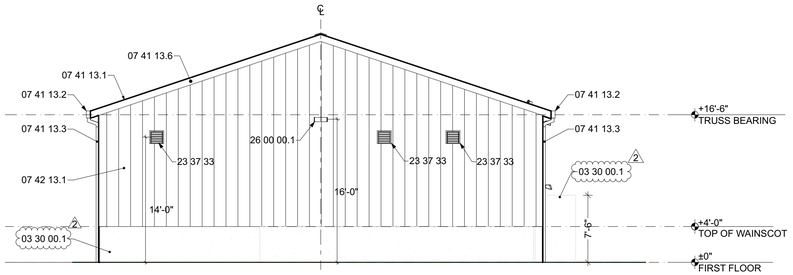
SHEET TITLE

## ROOF PLAN

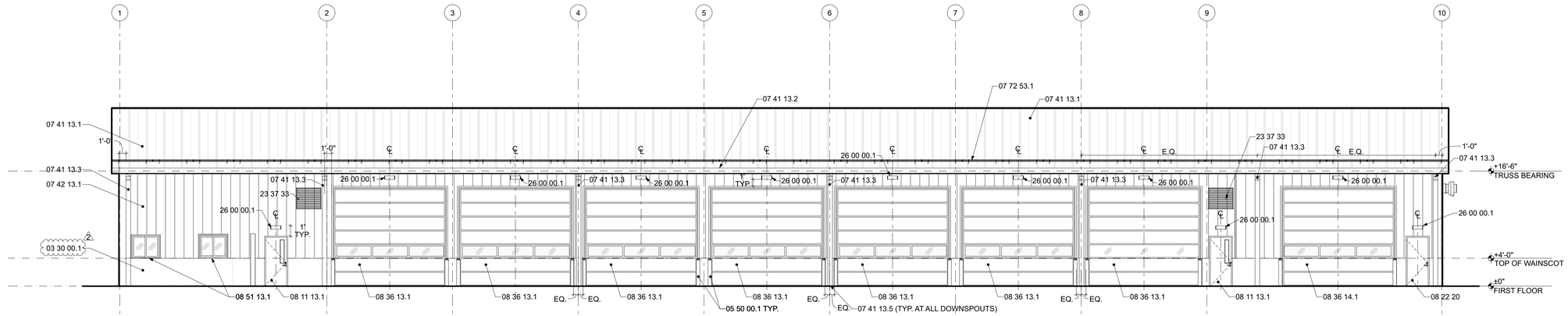
# A-101



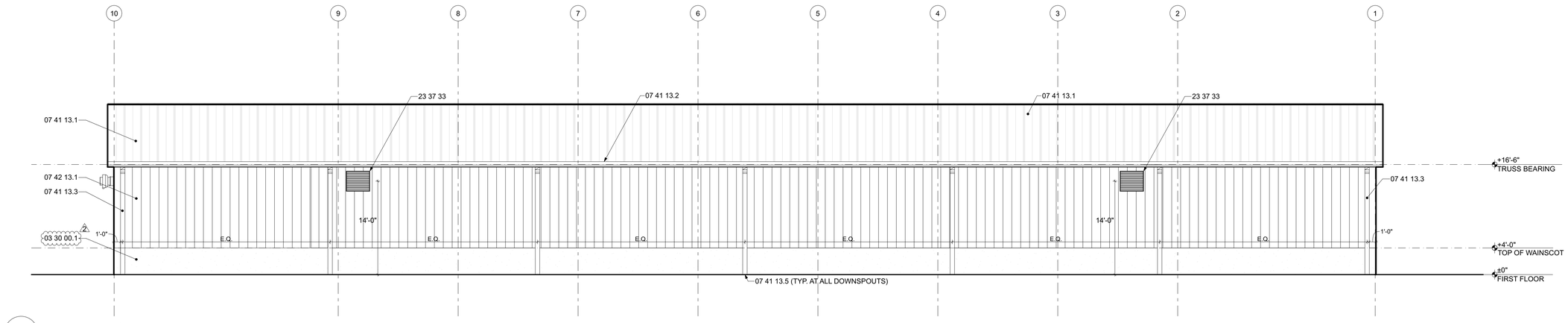

A1 A-200 EAST ELEVATION
SCALE: 1/8" = 1'-0"




B3 A-200 WEST ELEVATION
SCALE: 1/8" = 1'-0"




C1 A-200 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"




D1 A-200 NORTH ELEVATION
SCALE: 1/8" = 1'-0"

## SPECIFICATION NOTES:

| | | | |
|---|---|---|---|
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| 03 30 00.7 EXPANSION JT | 07 41 13.7 UNDERLAYMENT | 09 67 00.1 EPOXY FLOORING SYSTEM | 11 11 00.9 WATER REEL AND HOSE |
| 03 30 00.8 GROUT | 07 41 13.8 PERFORATED METAL SOFFIT PANEL | 09 77 00.1 FRP PANELS | 11 11 10.1 PRESSURE WASHER |
| 05 50 00.1 GALVANIZED STEEL BOLLARD W/ COVER | 07 42 13.1 METAL WALL PANELS | 09 77 00.2 INTERLOCKING PVC PANELS | 11 11 10.2 PRESSURE WASHER TROLLEY SYSTEM |
| 05 50 00.2 HDPE BOLLARD COVER | 07 42 13.2 METAL LINER PANELS | 09 96 00.1 EPOXY PAINT | 11 11 10.3 UNDERCARRIAGE WASH |
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| | 09 29 00.4 TILE BACKING PANELS | 10 51 13.1 LOCKERS | |


**JMSA ARCHITECTURE**

**Jerome M. Scott Architects**
1020 Goodale Blvd
Columbus, Ohio
43212


STATE OF OHIO
DANIEL BOYNE
1218692
Exp. 12/31/2023
REGISTERED ARCHITECT

# DOT-200023 ODOT - EATON OUTPOST

5656 US-127 Eaton, Ohio 45320

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 3 | 3/11/2022 | REVISION 3 |
| 2 | 3/11/2022 | REVISION 2 / CONFORMED SET |
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PROJECT NO: **DOT-200023**
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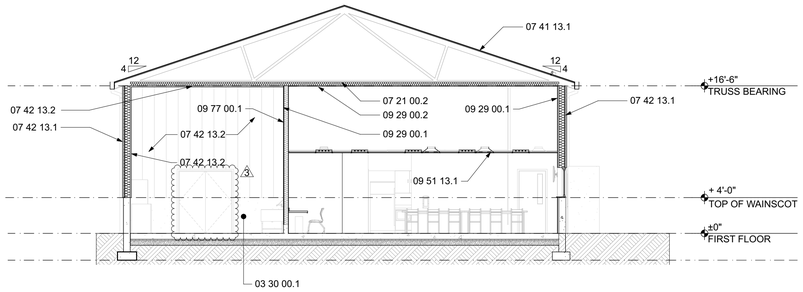
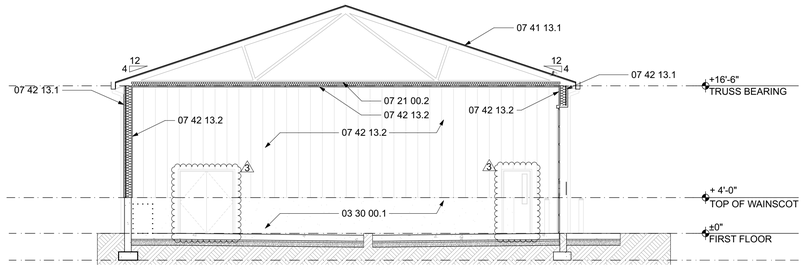
SHEET TITLE

## EXTERIOR ELEVATIONS

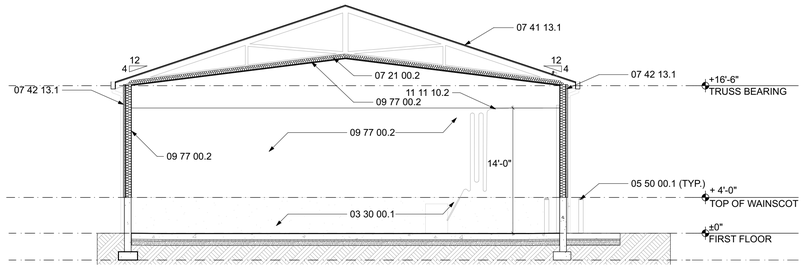
# A-200



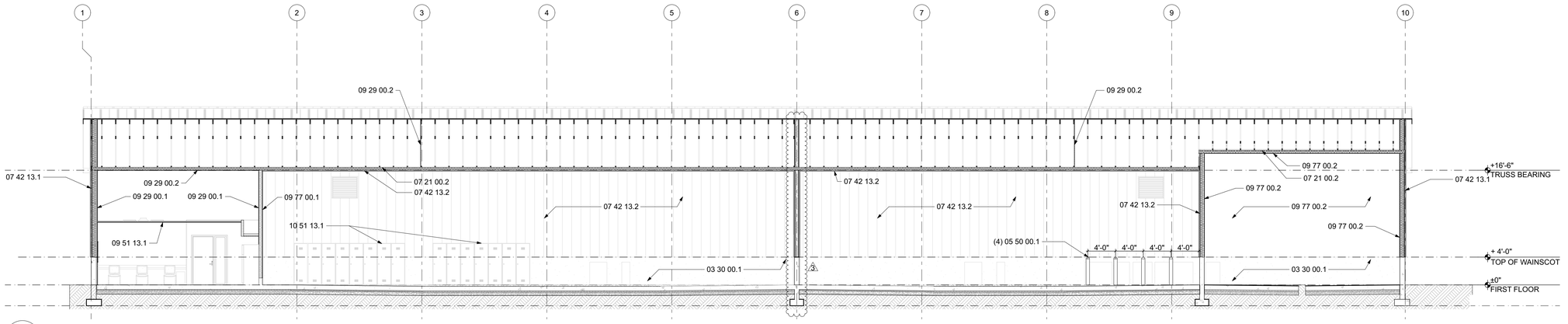

B1 A-300 OFFICE SECTION
SCALE: 1/8" = 1'-0"




B3 A-300 TRUCK STORAGE SECTION
SCALE: 1/8" = 1'-0"




C1 A-300 WASHBAY SECTION
SCALE: 1/8" = 1'-0"




D1 A-300 LONGITUDINAL SECTION
SCALE: 1/8" = 1'-0"

## SPECIFICATION NOTES:

| | | | |
|---|---|---|---|
| 03 30 00.1 CAST IN-PLACE CONCRETE | 07 41 13.4 METAL ROOF RIDGE VENT | 09 30 00.1 CERAMIC TILE | 11 11 00.1 TRENCH DRAIN |
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43212


STATE OF OHIO
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Exp 12/31/2023

DOT-200023
ODOT - EATON
OUTPOST

5656 US-127 Eaton, Ohio 45320

| MARK | DATE | DESCRIPTION |
|---|---|---|
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| 3 | 3/11/2022 | REVISION 3 |
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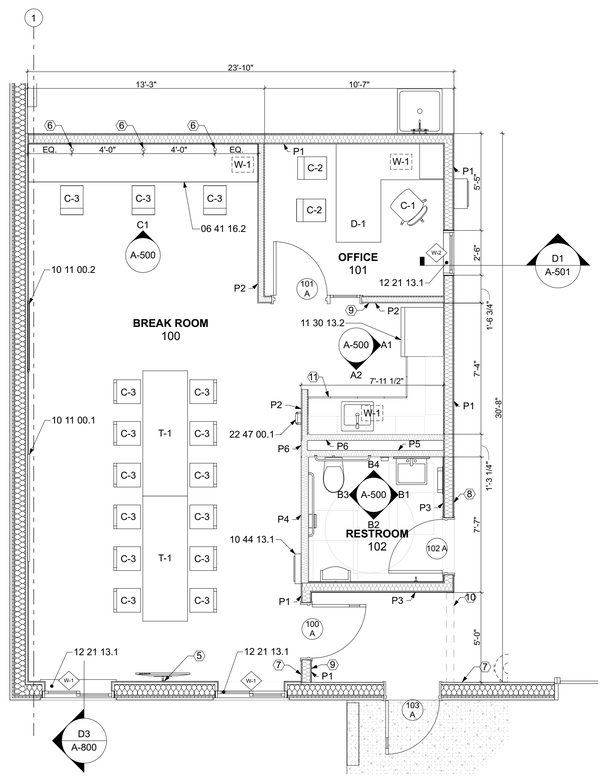
SHEET TITLE

**SECTIONS**

A-300




D2 / A-400 — ENLARGED OFFICE PLAN

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

N

| FURNITURE SCHEDULE: (REFER TO SPECIFICATION 12 15 00) | |
|---|---|
| C-1 | MID-BACK TASK CHAIR (QTY 1) |
| C-2 | GUEST CHAIR (QTY 2) |
| C-3 | STACKING CHAIR (QTY 17) |
| D-1 | DESK W/ RIGHT RETURN, FULL MODESTY, BBF + FF (QTY 1) |
| T-1 | 84"x30" LAMINATE NESTING TABLE (QTY 2) |
| W-1 | 7 GALLON PLASTIC WASTE RECEPTACLE (QTY 3) |
| W-2 | 35 GALLON PLASTIC OPEN TOP WASTE RECEPTACLE (QTY 2) |

## PLAN GENERAL NOTES:

1. JOINT SEALANT (07 92 00) SHALL BE APPLIED AT ALL JOINTS OF DISSIMILAR MATERIAL.
2. ALL OPENINGS AND THE EQUIPMENT THROUGH OPENINGS MUST BE COORDINATED. SEE STRUCTURAL AND MEP DRAWINGS. COORDINATE FINAL LOCATIONS WITH ARCHITECT.
3. REFER TO CIVIL DRAWINGS FOR CONTINUATION AND LAYOUT OF EXTERIOR WALLS, STOOPS, CURBS, ETC.
4. REFER TO STRUCTURAL DRAWINGS FOR CONTROL JOINTS IN INTERIOR CONCRETE SLABS (03 30 00). COORDINATE CONCRETE JOINTS WITH THE FINISH FLOOR MATERIALS.
5. CUT HOLES IN WALL PANELS AND PROVIDE WEATHERTIGHT FLASHING BOOTS FOR ALL ROOF AND WALL PENETRATIONS. CONTRACTOR IS RESPONSIBLE FOR SEALING ALL OTHER PENETRATIONS WHERE BOOT IS NOT FEASIBLE. THE FINAL WEATHER TIGHTNESS OF THE BUILDING IS THE RESPONSIBILITY OF THE CONTRACTOR.
6. PROVIDE BLOCKING FOR OVERHEAD DOOR OPENERS, MOTORS, SHAFT SUPPORTS, TRACKS, AND OPERATORS.
7. ALL DOORS TO BE LOCATED WITH OUTSIDE EDGE OF FRAME 4" FROM FINISHED FACE OF ADJACENT PARTITION U.N.O.
8. PROVIDE SUPPORT STEEL FOR ALL HVAC EQUIPMENT AS RECOMMENDED BY MANUFACTURER.
9. COORDINATE UNDERGROUND UTILITIES WITH THE DEPTH OF TRENCH DRAINS (11 11 00).
10. FINAL ELEVATIONS FOR EACH OF THE TRENCH DRAINS (11 11 00.1) AND CATCH BASINS TO BE COORDINATED WITH THE INSTALLATIONS OF THE CONCRETE FLOORS (03 30 00).
11. ALL SLOPED SLABS SHALL HAVE A CONSISTANT SLOPE.
12. COORDINATE INSTALLATION OF THE TRENCH DRAINS WITH CONCRETE FLOOR CONTROL JOINTS.
13. ALL FURNISHINGS TO BE PROVIDED BY CONTRACTOR U.N.O. REFER TO SPECIFICATION 12 51 00.
14. ALL FASTENERS, HARDWARE, CONDUIT, COVER PLATES, ETC. LOCATED IN WASHBAY TO BE STAINLESS STEEL UNLESS SPECIFICALLY APPROVED BY ARCHITECT IN WRITING.

## PLAN CODED NOTES:

1. REINFORCED CONCRETE APRON/STOOP. SLOPE DOWN 1/8" PER FOOT FROM BUILDING. REFER TO STRUCTURAL.
2. PROVIDE 4" HIGH CONCRETE HOUSEKEEPING PAD AT WASHBAY EQUIPMENT, COORDINATE FINAL DIMENSIONS WITH EQUIPMENT.
3. PROVIDE 4" HIGH CONCRETE HOUSEKEEPING PADAT MECHANICAL AND/OR ELECTRICAL EQUIPMENT. COORDINATE FINAL DIMENSIONS AND LOCATION WITH ARCHITECT.
4. COORDINATE FINAL MOUNTING HEIGHT/LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
5. PROVIDE HORIZONTAL WOOD BLOCKING AT 4', 6', AND 8'. A.F.F. FOR FUTURE TV MOUNT (BY OWNER).
6. DENOTES COUNTERTOP GROMMET.
7. TACTILE EXIT SIGN. REFER TO SHEET A-500.
8. TACTILE RESTROOM SIGN. REFER TO SHEET A-500.
9. ROOM NAME SIGN. REFER TO SHEET A-500.
10. EXTENTS OF EPOXY FLOORING SYSTEM. PROVIDE KEYED EDGE TRANSITION.
11. CONTINUE EPOXY FLOORING AND INTERNAL BASE BELOW AND BEHIND BASE CABINETS.
12. LOCATION OF IN-GROUND LOOP DETECTION FOR UNDERCARRIAGE WASH.

## SPECIFICATION NOTES:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 03 30 00.1 | CAST IN-PLACE CONCRETE | 07 41 13.4 | METAL ROOF RIDGE VENT | 09 30 00.1 | CERAMIC TILE | 11 11 00.1 | TRENCH DRAIN |
| 03 30 00.3 | VAPOR BARRIER | 07 41 13.5 | CAST-IRON DOWNSPOUT BOOT | 09 51 13.1 | ACOUSTICAL CEILING TILE | 11 11 00.2 | TRENCH DRAIN CATCH BASIN |
| 03 30 00.4 | GRAVEL BASE | 07 41 13.6 | METAL FASCIA | 09 65 13.1 | RESILIENT BASE | 11 11 00.5 | COMPRESSED AIR REEL |
| 03 30 00.7 | EXPANSION JT | 07 41 13.7 | UNDERLAYMENT | 09 67 00.1 | EPOXY FLOORING SYSTEM | 11 11 00.9 | WATER REEL AND HOSE |
| 03 30 00.8 | GROUT | 07 41 13.8 | PERFORATED METAL SOFFIT PANEL | 09 77 00.1 | FRP PANELS | 11 11 10.1 | PRESSURE WASHER |
| 05 50 00.1 | GALVANIZED STEEL BOLLARD W/ COVER | 07 42 13.1 | METAL WALL PANELS | 09 77 00.2 | INTERLOCKING PVC PANELS | 11 11 10.2 | PRESSURE WASHER TROLLEY SYSTEM |
| 05 50 00.2 | HDPE BOLLARD COVER | 07 42 13.2 | METAL LINER PANELS | 09 96 00.1 | EPOXY PAINT | 11 11 10.3 | UNDERCARRIAGE WASH |
| 06 10 00.1 | WOOD FRAMING | 07 62 00.1 | METAL FLASHING | 10 11 00.1 | MARKER BOARD | 11 11 10.4 | VEHICLE WASH PUMP |
| 06 10 00.2 | WOOD FURRING @ 24" O.C. | 07 72 53.1 | SNOW GUARD | 10 11 00.2 | TACK BOARD | 11 11 10.5 | VECHICLE WASH TANK |
| 06 16 00.1 | 5/8" SHEATHING | 07 92 00.1 | JOINT SEALANTS | 10 22 13.1 | WIRE MESH PARTITION | 11 11 10.6 | PRESSURE WASHER REMOTE SYSTEM |
| 06 16 00.2 | ROOF SHEATHING | 08 11 13.1 | HOLLOW METAL DOORS/FRAMES | 10 28 00.1 | TOILET TISSUE DISPENSER | 11 11 10.7 | VEHICLE WASH SWITCH |
| 06 41 16.1 | CABINET | 08 22 20.1 | FIBERGLASS DOORS/FRAMES | 10 28 00.2 | PAPER TOWEL DISPENSER | 11 30 13.1 | MICROWAVE |
| 06 41 16.2 | SOLID SURFACE COUNTERTOP | 08 31 13.1 | ACCESS PANEL | 10 28 00.3 | WASTE RECEPTACLE | 11 30 13.2 | REFRIGERATOR |
| 06 41 16.3 | SOLID SURFACE WINDOW SILL | 08 36 13.1 | OVERHEAD SECTIONAL DOORS | 10 28 00.4 | SOAP DISPENSER | 12 21 13.1 | HORIZONTAL LOUVER BLINDS |
| 07 21 00.1 | FOUNDATION INSULATION | 08 36 14.1 | WASHBAY OVERHEAD DOORS | 10 28 00.5 | GRAB BAR | 22 00 00.1 | PLUMBING FIXTURE(REFER TO PLUMBING DRAWINGS) |
| 07 21 00.2 | BATT INSULATION | 08 43 13.1 | ALUMINUM FRAME STOREFRONTS | 10 28 00.6 | SANITARY NAPKIN DISPOSAL | 22 47 00.1 | BOTTLE FILLER |
| 07 21 00.3 | RIGID INSULATION | 08 51 13.1 | ALUMINUM WINDOWS | 10 28 00.7 | COAT HOOK | 23 34 00.1 | EXHAUST FAN (REFER TO MECHANICAL) |
| 07 21 00.4 | INSULATION BAFFLE | 08 80 00.1 | GLAZING | 10 28 00.8 | FRAMED MIRROR UNIT | 23 37 33 | HVAC LOUVERS (REFER TO MECHANICAL) |
| 07 25 00.1 | AIR BARRIER | 09 22 16.1 | METAL "Z" FURRING | 10 28 00.9 | UNDER LAVATORY GUARD | 26 00 00.1 | LIGHT FIXTURES (REFER TO ELECTRICAL) |
| 07 41 13.1 | METAL ROOF PANELS | 09 29 00.1 | 5/8" GYPSUM BOARD | 10 28 00.10 | MOP HOLDER / SHELF | 33 46 00.1 | FOUNDATION DRAIN |
| 07 41 13.2 | METAL GUTTERS | 09 29 00.2 | 1/2" GYPSUM BOARD | 10 44 13.1 | SEMI-RECESSED FIRE EXTINGUISHER CABINET | | |
| 07 41 13.3 | METAL DOWNSPOUTS | 09 29 00.3 | SOUND ATTENUATION BLANKETS | 10 44 13.2 | SURFACE-MTD. FIRE EXTINGUISHER CABINET | | |
| | | 09 29 00.4 | TILE BACKING PANELS | 10 51 13.1 | LOCKERS | | |


**Jerome M. Scott Architects**
1020 Goodale Blvd
Columbus, Ohio
43212


STATE OF OHIO
DANIEL BOYNE
1216592
Exp. 12/31/2023
REGISTERED ARCHITECT

DOT-200023
ODOT - EATON OUTPOST

5656 US-127 Eaton, Ohio 45320

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 3 | 3/11/2022 | REVISION 3 |
| 2 | 3/11/2022 | REVISION 2 / CONFORMED SET |
| 1 | 12/17/2021 | REVISION 1 PERMIT / BID SET |
| - | 12/10/2021 | BID SET |
| - | 11/12/2021 | PERMIT SET |

PROJECT NO: **DOT-200023**
DATE: **12/17/2021**
DRAWN BY: **MWM**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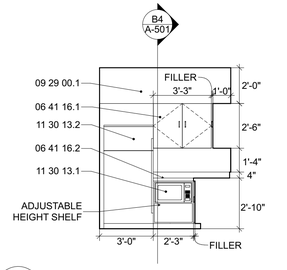
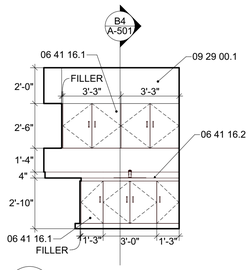
SHEET TITLE

**ENLARGED OFFICE PLAN**

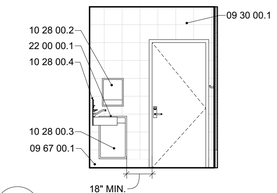
A-400



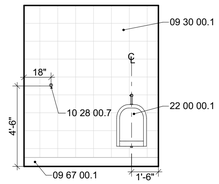

A1 A-500 INTERIOR ELEVATION (KITCH.)
SCALE: 1/4" = 1'-0"



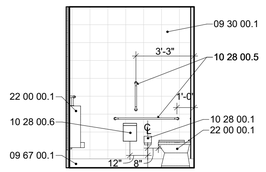

A2 A-500 INTERIOR ELEVATION (KITCH.)
SCALE: 1/4" = 1'-0"



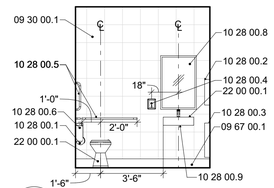

B1 A-500 INTERIOR ELEVATION (R.R.)
SCALE: 1/4" = 1'-0"



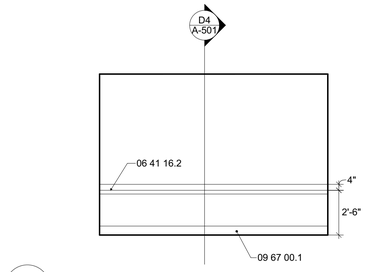

B2 A-500 INTERIOR ELEVATION (R.R.)
SCALE: 1/4" = 1'-0"




B3 A-500 INTERIOR ELEVATION (R.R.)
SCALE: 1/4" = 1'-0"



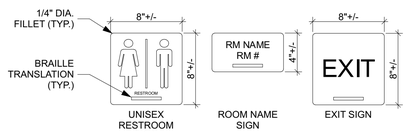

B4 A-500 INTERIOR ELEVATION (R.R.)
SCALE: 1/4" = 1'-0"




C1 A-500 INTERIOR ELEVATION (W.S.)
SCALE: 1/4" = 1'-0"

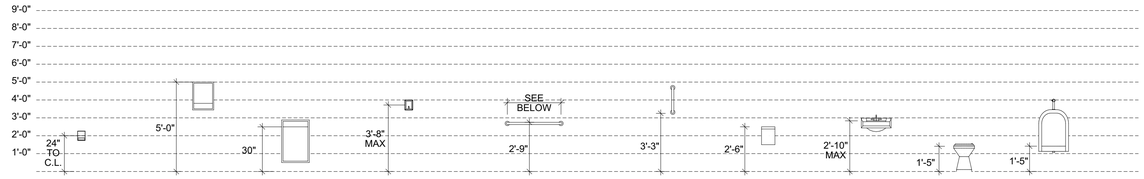



D4 A-500 ADA LOCKER
SCALE: 3/4" = 1'-0"




**GENERAL NOTES ON INTERIOR SIGNAGE:**

1. REFER TO FLOOR PLANS FOR SIGNAGE LOCATIONS.
2. MOUNT SIGNS 4'-8" A.F.F. TO CENTERLINE OF BRAILLE.
3. COORDINATE FINAL ROOM NAMES AND NUMBERS WITH OWNER.
4. VERIFY FINAL LAYOUT OF SIGNAGE WITH ARCHITECT.




**NOTES:** COORDINATE ALL MOUNTING REQUIREMENTS WITH ICC A117.1 GUIDELINES. REFER TO INTERIOR ELEVATIONS, AND MOUNTING HEIGHT SCHEDULE (THIS SHEET) FOR LOCATIONS OF RESTROOM ACCESSORIES AND FIXTURES.

## SPECIFICATION NOTES:

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| 07 41 13.2 | METAL GUTTERS | 09 29 00.2 | 1/2" GYPSUM BOARD | 10 44 13.1 | SEMI-RECESSED FIRE EXTINGUISHER CABINET | | |
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JMSA ARCHITECTURE

**Jerome M. Scott Architects**
1020 Goodale Blvd
Columbus, Ohio
43212


STATE OF OHIO
DANIEL BOYNE
12136592
Exp. 12/31/2023
REGISTERED ARCHITECT

# DOT-200023
# ODOT - EATON OUTPOST

5656 US-127 Eaton, Ohio 45320

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 3 | 3/11/2022 | REVISION 3 |
| 2 | 3/11/2022 | REVISION 2 / CONFORMED SET |
| 1 | 12/17/2021 | REVISION 1 PERMIT / BID SET |
| - | 12/10/2021 | BID SET |
| - | 11/12/2021 | PERMIT SET |

PROJECT NO: **DOT-200023**
DATE: **12/17/2021**
DRAWN BY: **MWM**


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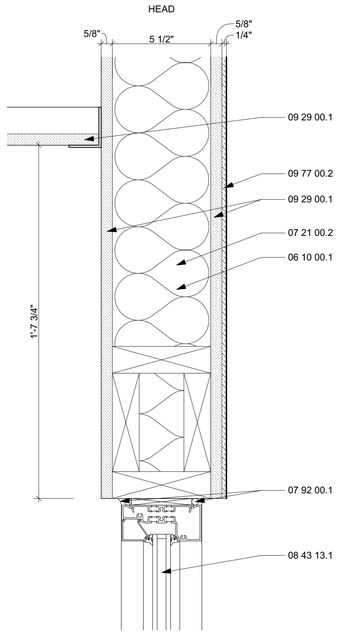
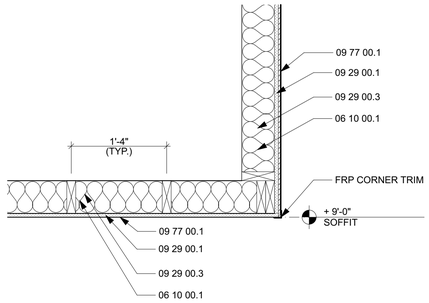
SHEET TITLE

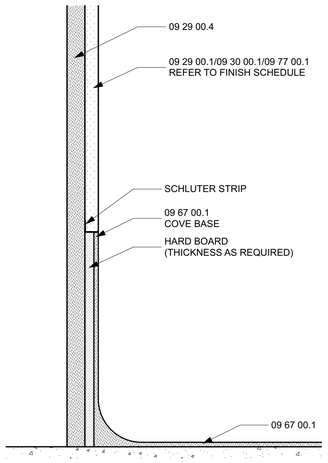
## INTERIOR ELEVATIONS

# A-500

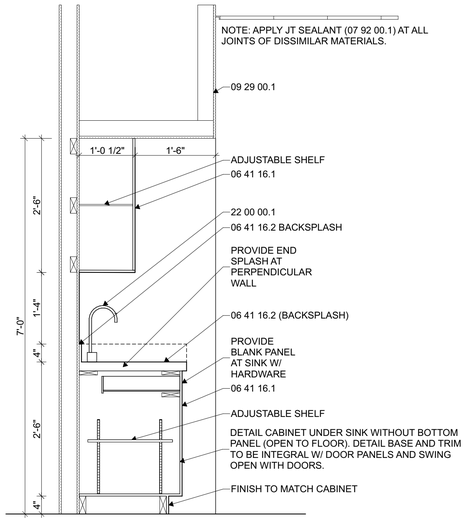


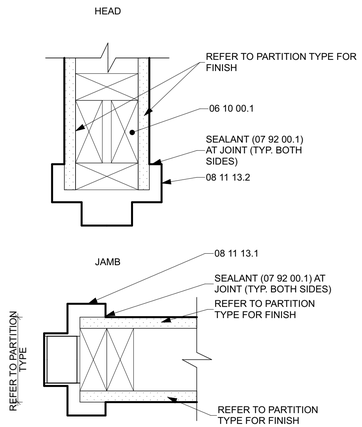

A2 / A-501 HALLWAY SOFFIT DETAIL
SCALE: 1" = 1'-0"



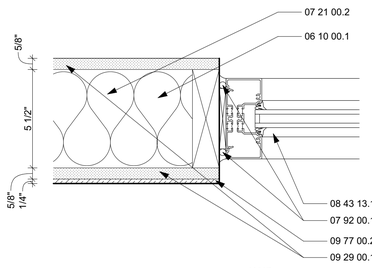

B3 / A-501 EPOXY COVE BASE
SCALE: 6" = 1'-0"

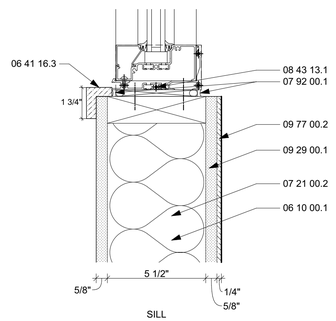



B4 / A-501 KITCHENETTE SECTION
SCALE: 3/4" = 1'-0"

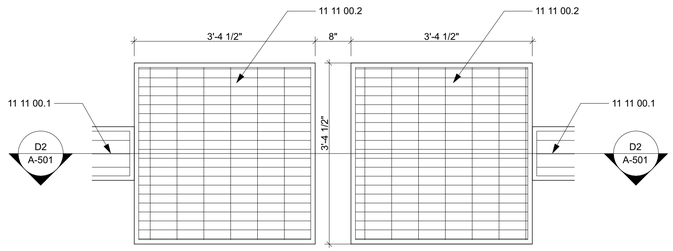



B5 / A-501 INTERIOR HEAD AND JAMB DETAILS - WOOD STUD
SCALE: 3" = 1'-0"

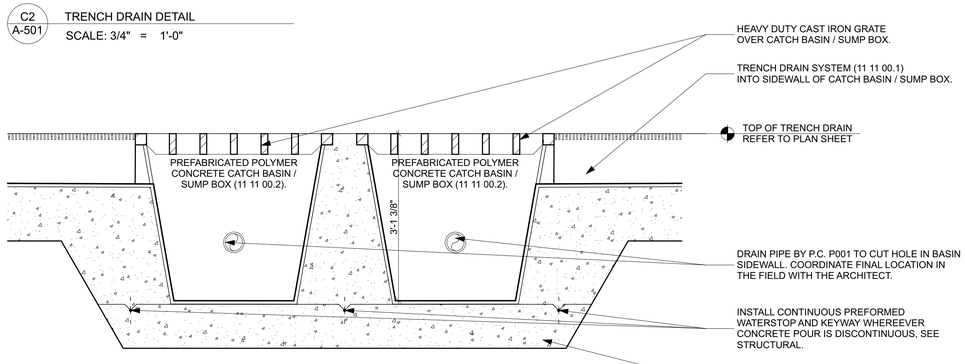


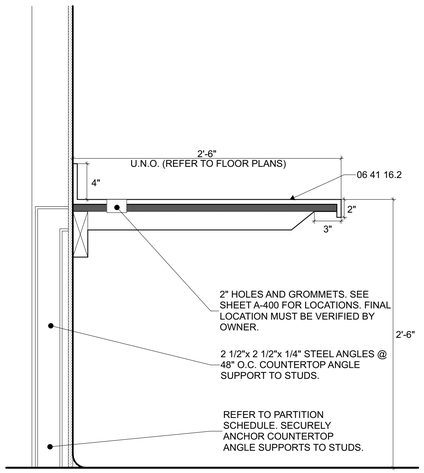

D1 / A-501 INTERIOR STOREFRONT HEAD/SILL/JAMB
SCALE: 3" = 1'-0"




C2 / A-501 TRENCH DRAIN DETAIL
SCALE: 3/4" = 1'-0"




D2 / A-501 CATCH BASIN SECTION DETAIL
SCALE: 3/4" = 1'-0"




D4 / A-501 COUNTERTOP AT GYPSUM BOARD WALL
SCALE: 1 1/2"= 1'-0"

SPECIFICATION NOTES:

| | | | |
|---|---|---|---|
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| | 09 29 00.4 TILE BACKING PANELS | 10 51 13.1 LOCKERS | |


JMSA ARCHITECTURE

**Jerome M. Scott Architects**
1020 Goodale Blvd
Columbus, Ohio
43212


STATE OF OHIO
DANIEL BOYNE
1218692
Exp. 12/31/2023
REGISTERED ARCHITECT

DOT-200023
ODOT - EATON OUTPOST
5656 US-127 Eaton, Ohio 45320

| MARK | DATE | DESCRIPTION |
|---|---|---|
| - | 11/12/2021 | PERMIT SET |
| - | 12/10/2021 | BID SET |
| 1 | 12/17/2021 | REVISION 1 PERMIT / BID SET |
| 2 | 3/11/2022 | REVISION 2 / CONFORMED SET |
| 3 | 3/11/2022 | REVISION 3 |

PROJECT NO: **DOT-200023**
DATE: **12/17/2021**
DRAWN BY: **MWM**


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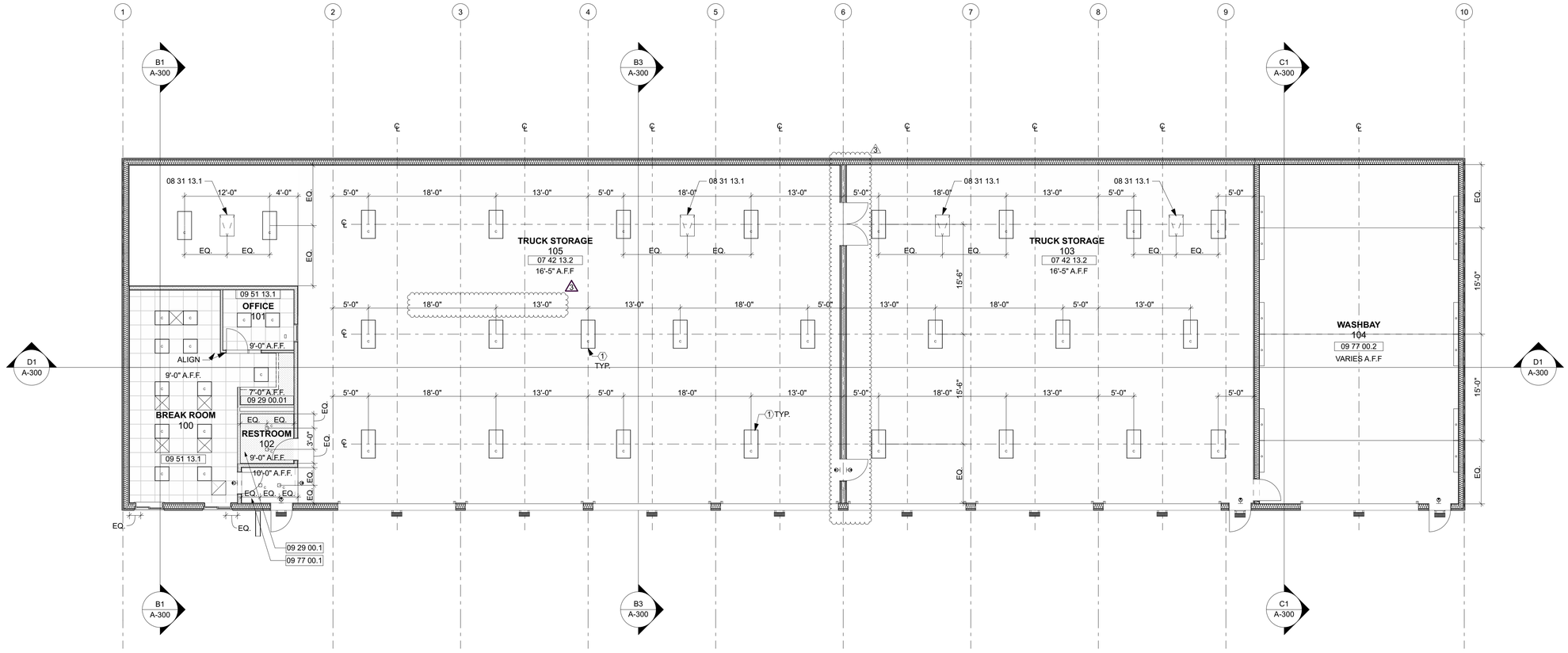
SHEET TITLE

**INTERIOR DETAILS**

A-501




A1 / A-600 REFLECTED CEILING PLAN

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

N

## REFLECTED CEILING PLAN GENERAL NOTES:

1. SEE MEP FOR FURTHER DETAILS.
2. REFER TO THE REFLECTED CEILING PLAN FIXTURE SCHEDULE AND CODED NOTES FOR MOUNTING HEIGHTS OF SUSPENDED LIGHT FIXTURES.
3. COORDINATE OVERHEAD SECTIONAL DOORS MOTOR LOCATIONS WITH THE POWER SUPPLY INDICATED ON THE ELECTRICAL DRAWINGS
4. PROVIDE SUPPORT FRAMING AROUND ALL RECESSED LIGHTING FIXTURES.
5. PROVIDE SEALANT BETWEEN ALL HVAC PENETRATIONS AND GYPSUM BOARD CEILINGS.
6. VERIFY ALL STRUCTURAL MEMBERS AND CONNECTIONS INCLUDING LOAD REQUIREMENTS FOR EQUIPMENT AND AUXILIARY ITEMS ATTACHED TO THE BUILDING STRUCTURE.
7. PRIVDE FRAMING FOR EXHAUST FANS (23 24 00.1). REFER TO HVAC DRAWINGS.
8. COORDINATE THE LOCATIONS OF ALL OVERHEAD DOOR TRACKS, LIGHT FIXTURES, HCAV EQUIPMENT, AND PLUMBING.
9. REFER TO ELECTRICAL DRAWINGS AND ELEVATIONS (A-200) FOR LOCATIONS OF EXTERIOR LIGHTING FIXTURES (26 00 00.1).

## CODED NOTES:

① BOTTOM OF HIGH BAY LIGHT FIXTURES +/- 19'-0" A.F.F. COORDINATE WITH OVERHEAD DOOR HARDWARE

## FIXTURE SCHEDULE

- 26 50 00 - EXIT SIGNAGE (REFER TO ELECTRICAL DRAWINGS)
- 26 50 00 - EXTERIOR SURFACE MOUNTED LIGHT FIXTURE (REFER TO ELECTRICAL DRAWINGS)
- 26 50 00 - RECESSED LIGHT FIXTURE (REFER TO ELECTRICAL DRAWINGS)
- 26 50 00 - SURFACE MTD LIGHT FIXTURE (REFER TO ELECTRICAL DRAWINGS)
- 26 50 00 - 24"X24" RECESSED LIGHT FIXTURE (REFER TO ELECTRICAL DRAWINGS)
- 26 50 00 - SUSPENDED HIGH BAY LIGHT FIXTURE (REFER TO ELECTRICAL DRAWINGS)
- 23 37 13 - SUPPLY GRILLE (REFER TO HVAC DRAWINGS)
- 23 37 13 - RETURN GRILLE (REFER TO HVAC DRAWINGS)
- INDICATES GYPSUM BOARD

## SPECIFICATION NOTES:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 03 30 00.1 | CAST IN-PLACE CONCRETE | 07 41 13.4 | METAL ROOF RIDGE VENT | 09 30 00.1 | CERAMIC TILE | 11 11 00.1 | TRENCH DRAIN |
| 03 30 00.3 | VAPOR BARRIER | 07 41 13.5 | CAST-IRON DOWNSPOUT BOOT | 09 51 13.1 | ACOUSTICAL CEILING TILE | 11 11 00.2 | TRENCH DRAIN CATCH BASIN |
| 03 30 00.4 | GRAVEL BASE | 07 41 13.6 | METAL FASCIA | 09 65 13.1 | RESILIENT BASE | 11 11 00.5 | COMPRESSED AIR REEL |
| 03 30 00.7 | EXPANSION JT | 07 41 13.7 | UNDERLAYMENT | 09 67 00.1 | EPOXY FLOORING SYSTEM | 11 11 00.9 | WATER REEL AND HOSE |
| 03 30 00.8 | GROUT | 07 41 13.8 | PERFORATED METAL SOFFIT PANEL | 09 77 00.1 | FRP PANELS | 11 11 10.1 | PRESSURE WASHER |
| 05 50 00.1 | GALVANIZED STEEL BOLLARD W/ COVER | 07 42 13.1 | METAL WALL PANELS | 09 77 00.2 | INTERLOCKING PVC PANELS | 11 11 10.2 | PRESSURE WASHER TROLLEY SYSTEM |
| 05 50 00.2 | HDPE BOLLARD COVER | 07 42 13.2 | METAL LINER PANELS | 09 96 00.1 | EPOXY PAINT | 11 11 10.3 | UNDERCARRIAGE WASH |
| 06 10 00.1 | WOOD FRAMING | 07 62 00.1 | METAL FLASHING | 10 11 00.1 | MARKER BOARD | 11 11 10.4 | VEHICLE WASH PUMP |
| 06 10 00.2 | WOOD FURRING @ 24" O.C. | 07 72 53.1 | SNOW GUARD | 10 11 00.2 | TACK BOARD | 11 11 10.5 | VECHICLE WASH TANK |
| 06 16 00.1 | 5/8" SHEATHING | 07 92 00.1 | JOINT SEALANTS | 10 22 13.1 | WIRE MESH PARTITION | 11 11 10.6 | PRESSURE WASHER REMOTE SYSTEM |
| 06 16 00.2 | ROOF SHEATHING | 08 11 13.1 | HOLLOW METAL DOORS/FRAMES | 10 28 00.1 | TOILET TISSUE DISPENSER | 11 11 10.7 | VEHICLE WASH SWITCH |
| 06 41 16.1 | CABINET | 08 22 20.1 | FIBERGLASS DOORS/FRAMES | 10 28 00.2 | PAPER TOWEL DISPENSER | 11 30 13.1 | MICROWAVE |
| 06 41 16.2 | SOLID SURFACE COUNTERTOP | 08 31 13.1 | ACCESS PANEL | 10 28 00.3 | WASTE RECEPTACLE | 11 30 13.2 | REFRIGERATOR |
| 06 41 16.3 | SOLID SURFACE WINDOW SILL | 08 36 13.1 | OVERHEAD SECTIONAL DOORS | 10 28 00.4 | SOAP DISPENSER | 12 21 13.1 | HORIZONTAL LOUVER BLINDS |
| 07 21 00.1 | FOUNDATION INSULATION | 08 36 14.1 | WASHBAY OVERHEAD DOORS | 10 28 00.5 | GRAB BAR | 22 00 00.1 | PLUMBING FIXTURE(REFER TO PLUMBING DRAWINGS) |
| 07 21 00.2 | BATT INSULATION | 08 43 13.1 | ALUMINUM FRAME STOREFRONTS | 10 28 00.6 | SANITARY NAPKIN DISPOSAL | 22 47 00.1 | BOTTLE FILLER |
| 07 21 00.3 | RIGID INSULATION | 08 51 13.1 | ALUMINUM WINDOWS | 10 28 00.7 | COAT HOOK | 23 34 00.1 | EXHAUST FAN (REFER TO MECHANICAL) |
| 07 21 00.4 | INSULATION BAFFLE | 08 80 00.1 | GLAZING | 10 28 00.8 | FRAMED MIRROR UNIT | 23 37 33 | HVAC LOUVERS (REFER TO MECHANICAL) |
| 07 25 00.1 | AIR BARRIER | 09 22 16.1 | METAL "Z" FURRING | 10 28 00.9 | UNDER LAVATORY GUARD | 26 00 00.1 | LIGHT FIXTURES (REFER TO ELECTRICAL) |
| 07 41 13.1 | METAL ROOF PANELS | 09 29 00.1 | 5/8" GYPSUM BOARD | 10 28 00.10 | MOP HOLDER / SHELF | 33 46 00.1 | FOUNDATION DRAIN |
| 07 41 13.2 | METAL GUTTERS | 09 29 00.2 | 1/2" GYPSUM BOARD | 10 44 13.1 | SEMI-RECESSED FIRE EXTINGUISHER CABINET | | |
| 07 41 13.3 | METAL DOWNSPOUTS | 09 29 00.3 | SOUND ATTENUATION BLANKETS | 10 44 13.2 | SURFACE-MTD. FIRE EXTINGUISHER CABINET | | |
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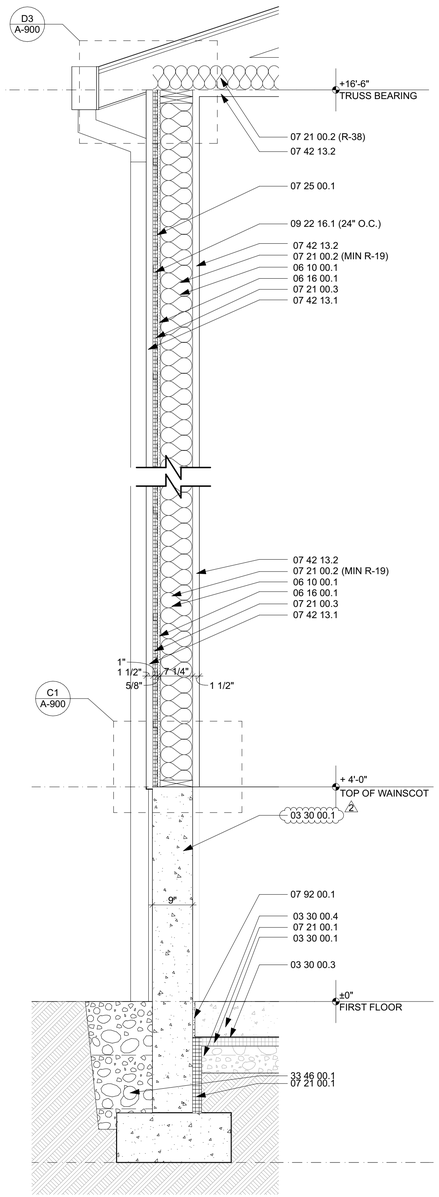
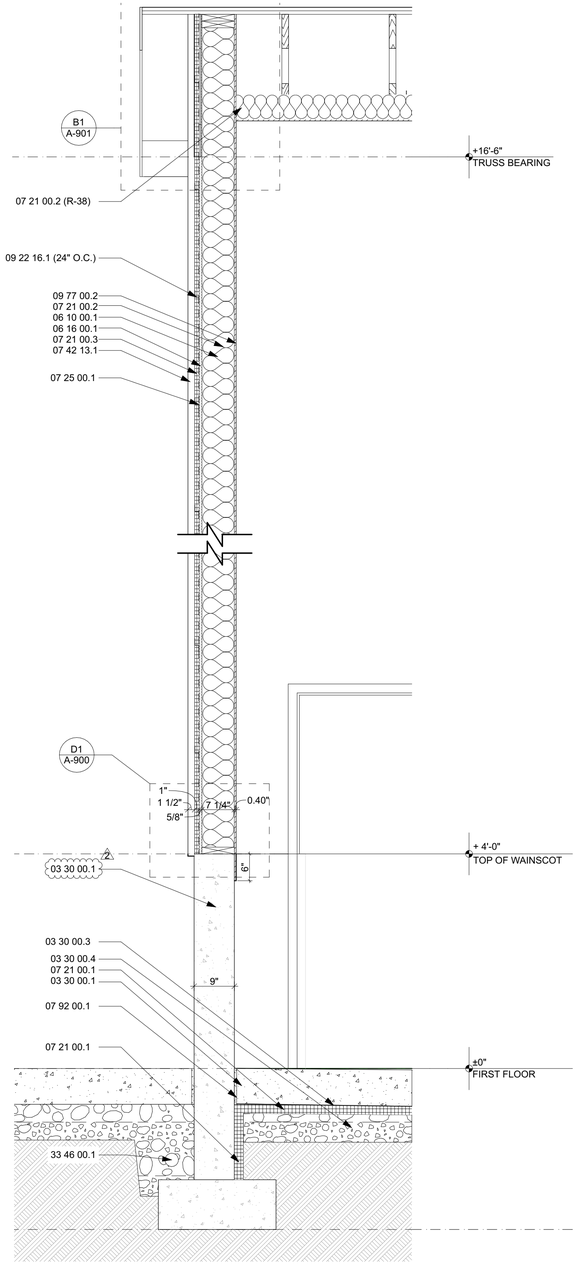
SHEET TITLE

## REFLECTED CEILING PLAN

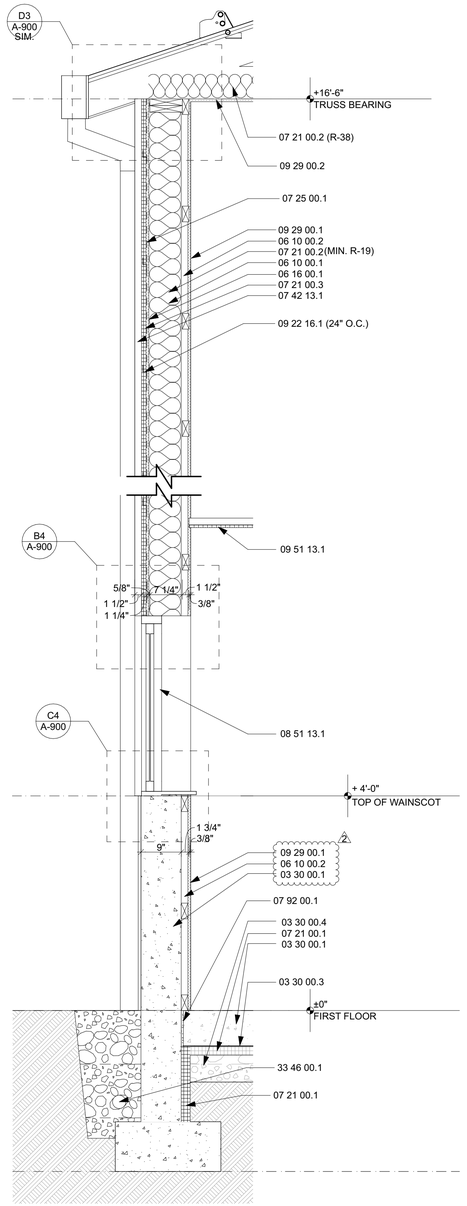
# A-600



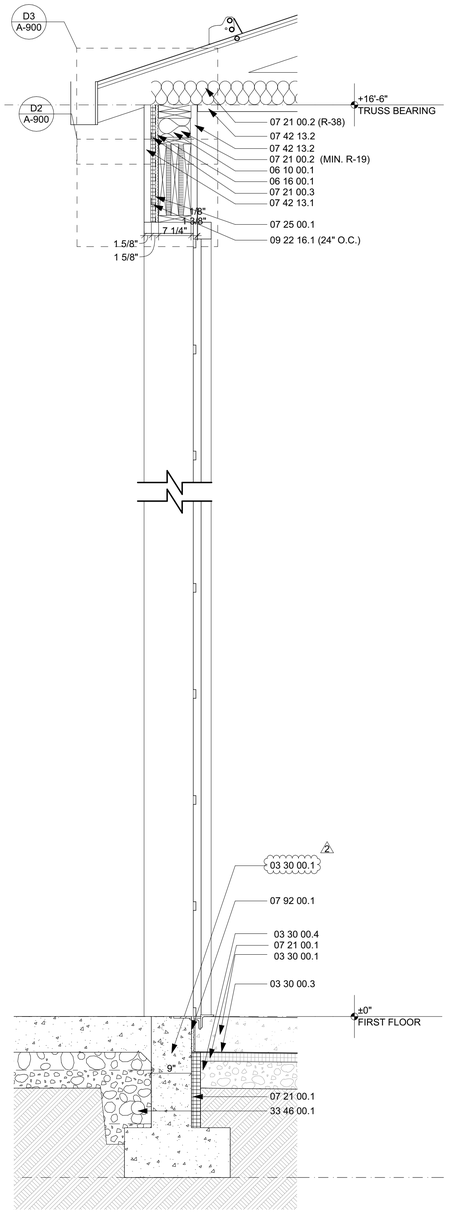

D1 A-800 TRUCK STORAGE WALL SECTION
SCALE: 3/4" = 1'-0"




D2 A-800 WASHBAY WALL SECTION
SCALE: 3/4" = 1'-0"




D3 A-800 OFFICE WALL SECTION
SCALE: 3/4" = 1'-0"




D4 A-800 TRUCK BAY SECTION
SCALE: 3/4" = 1'-0"

## SPECIFICATION NOTES:

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|---|---|---|---|---|---|---|---|
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| 03 30 00.3 | VAPOR BARRIER | 07 41 13.5 | CAST-IRON DOWNSPOUT BOOT | 09 51 13.1 | ACOUSTICAL CEILING TILE | 11 11 00.2 | TRENCH DRAIN CATCH BASIN |
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| 03 30 00.7 | EXPANSION JT | 07 41 13.7 | UNDERLAYMENT | 09 67 00.1 | EPOXY FLOORING SYSTEM | 11 11 00.9 | WATER REEL AND HOSE |
| 03 30 00.8 | GROUT | 07 41 13.8 | PERFORATED METAL SOFFIT PANEL | 09 77 00.1 | FRP PANELS | 11 11 10.1 | PRESSURE WASHER |
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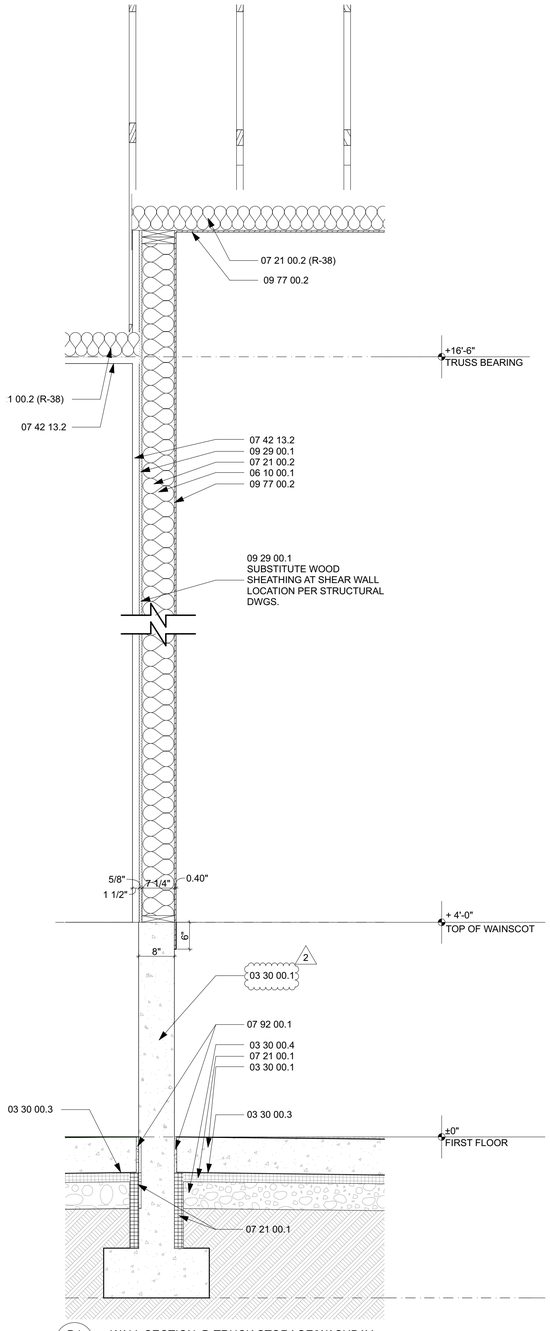
SHEET TITLE

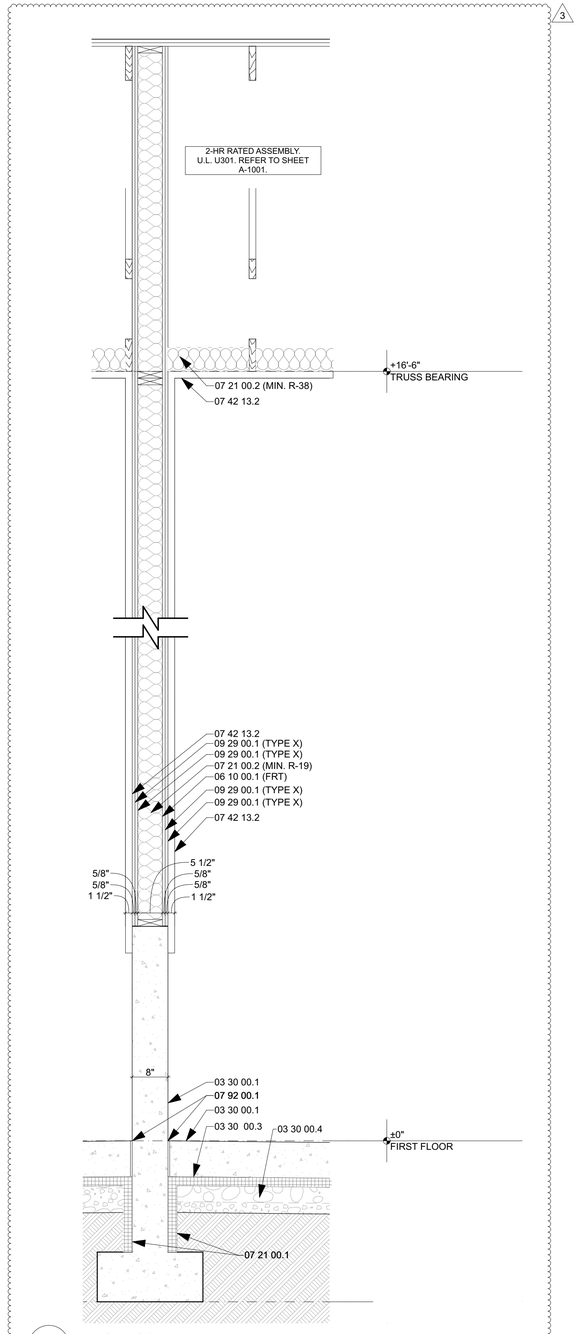
**EXTERIOR WALL SECTIONS**

A-800




D1 / A-801 WALL SECTION @ TRUCK STORAGE/WASHBAY

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




D2 / A-801 FIRST FLOOR PLAN

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

## SPECIFICATION NOTES:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
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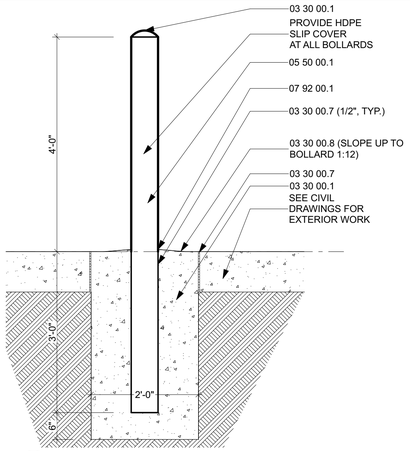
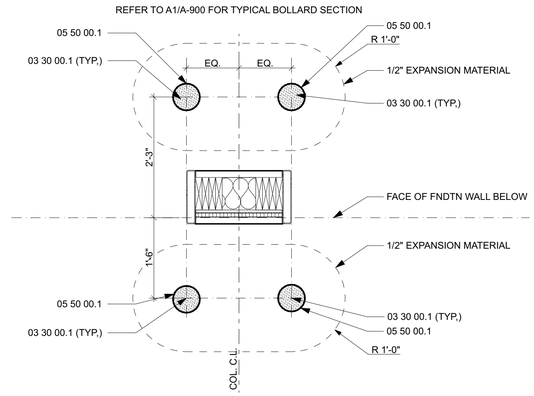
SHEET TITLE

**EXTERIOR WALL SECTIONS**

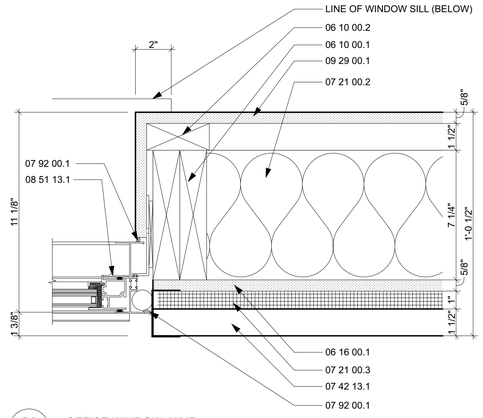
A-801



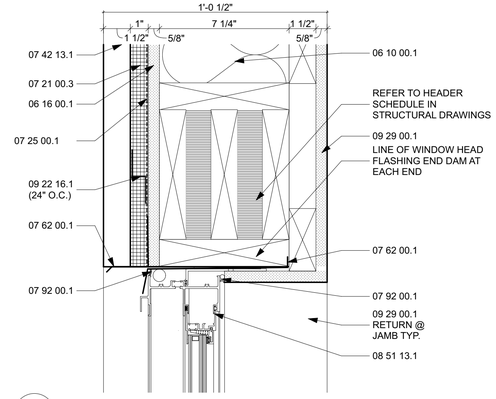

B1 A-900 BOLLARD DETAIL
SCALE: 3/4" = 1'-0"



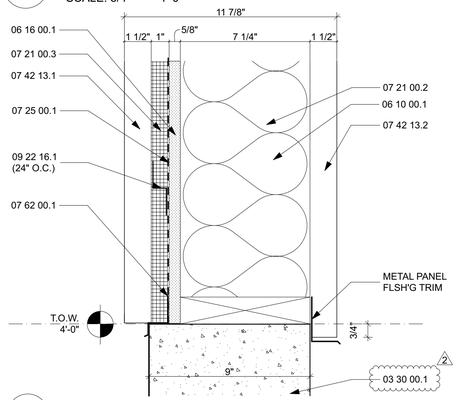

B2 A-900 BOLLARD PLAN
SCALE: 3/4" = 1'-0"



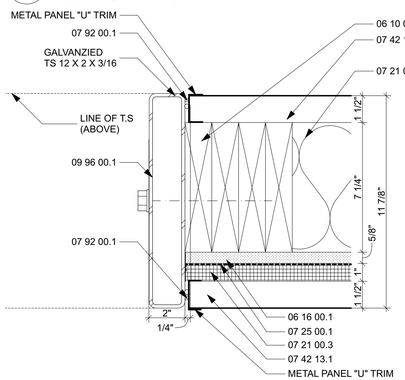

B3 A-900 OFFICE WINDOW JAMB
SCALE: 3" = 1'-0"



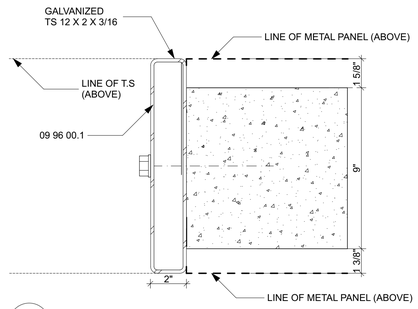

B4 A-900 OFFICE WINDOW HEAD
SCALE: 3" = 1'-0"



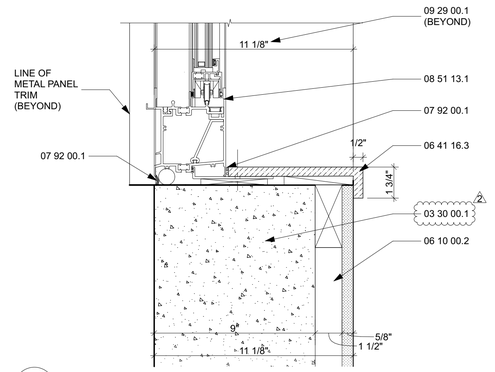

C1 A-900 EXTERIOR WALL DETAIL
SCALE: 3" = 1'-0"



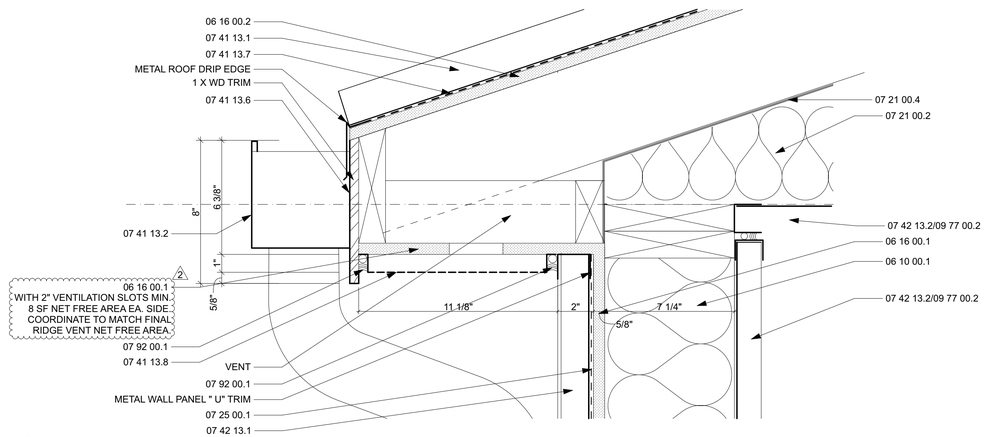

C2 A-900 OH DOOR JAMB
SCALE: 3" = 1'-0"



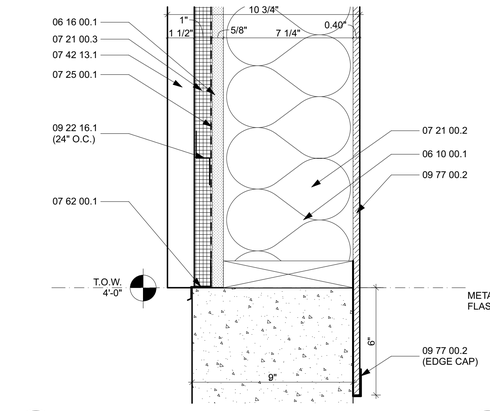

C3 A-900 OH DOOR JAMB @ CONC
SCALE: 3" = 1'-0"



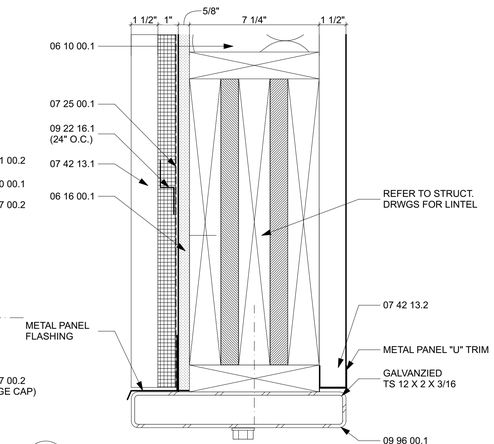

C4 A-900 OFFICE WINDOW SILL
SCALE: 3" = 1'-0"




D3 A-900 ROOF EAVE DETAIL
SCALE: 3" = 1'-0"




D1 A-900 WASHBAY WALL DETAIL
SCALE: 3" = 1'-0"




D2 A-900 TRUCK BAY OVERHEAD DOOR HEAD
SCALE: 3" = 1'-0"

## SPECIFICATION NOTES:

| | | | |
|---|---|---|---|
| 03 30 00.1 CAST IN-PLACE CONCRETE | 07 41 13.4 METAL ROOF RIDGE VENT | 09 30 00.1 CERAMIC TILE | 11 11 00.1 TRENCH DRAIN |
| 03 30 00.3 VAPOR BARRIER | 07 41 13.5 CAST-IRON DOWNSPOUT BOOT | 09 51 13.1 ACOUSTICAL CEILING TILE | 11 11 00.2 TRENCH DRAIN CATCH BASIN |
| 03 30 00.4 GRAVEL BASE | 07 41 13.6 METAL FASCIA | 09 65 13.1 RESILIENT BASE | 11 11 00.5 COMPRESSED AIR REEL |
| 03 30 00.7 EXPANSION JT | 07 41 13.7 UNDERLAYMENT | 09 67 00.1 EPOXY FLOORING SYSTEM | 11 11 00.9 WATER REEL AND HOSE |
| 03 30 00.8 GROUT | 07 41 13.8 PERFORATED METAL SOFFIT PANEL | 09 77 00.1 FRP PANELS | 11 11 10.1 PRESSURE WASHER |
| 05 50 00.1 GALVANIZED STEEL BOLLARD W/ COVER | 07 42 13.1 METAL WALL PANELS | 09 77 00.2 INTERLOCKING PVC PANELS | 11 11 10.2 PRESSURE WASHER TROLLEY SYSTEM |
| 05 50 00.2 HDPE BOLLARD COVER | 07 42 13.2 METAL LINER PANELS | 09 96 00.1 EPOXY PAINT | 11 11 10.3 UNDERCARRIAGE WASH |
| 06 10 00.1 WOOD FRAMING | 07 62 00.1 METAL FLASHING | 10 11 00.1 MARKER BOARD | 11 11 10.4 VEHICLE WASH PUMP |
| 06 10 00.2 WOOD FURRING @ 24" O.C. | 07 72 53.1 SNOW GUARD | 10 11 00.2 TACK BOARD | 11 11 10.5 VECHICLE WASH TANK |
| 06 16 00.1 5/8" SHEATHING | 07 92 00.1 JOINT SEALANTS | 10 22 13.1 WIRE MESH PARTITION | 11 11 10.6 PRESSURE WASHER REMOTE SYSTEM |
| 06 16 00.2 ROOF SHEATHING | 08 11 13.1 HOLLOW METAL DOORS/FRAMES | 10 28 00.1 TOILET TISSUE DISPENSER | 11 11 10.7 VEHICLE WASH SWITCH |
| 06 41 16.1 CABINET | 08 22 20.1 FIBERGLASS DOORS/FRAMES | 10 28 00.2 PAPER TOWEL DISPENSER | 11 30 13.1 MICROWAVE |
| 06 41 16.2 SOLID SURFACE COUNTERTOP | 08 31 13.1 ACCESS PANEL | 10 28 00.3 WASTE RECEPTACLE | 11 30 13.2 REFRIGERATOR |
| 06 41 16.3 SOLID SURFACE WINDOW SILL | 08 36 13.1 OVERHEAD SECTIONAL DOORS | 10 28 00.4 SOAP DISPENSER | 12 21 13.1 HORIZONTAL LOUVER BLINDS |
| 07 21 00.1 FOUNDATION INSULATION | 08 36 14.1 WASHBAY OVERHEAD DOORS | 10 28 00.5 GRAB BAR | 22 00 00.1 PLUMBING FIXTURE(REFER TO PLUMBING DRAWINGS) |
| 07 21 00.2 BATT INSULATION | 08 43 13.1 ALUMINUM FRAME STOREFRONTS | 10 28 00.6 SANITARY NAPKIN DISPOSAL | 22 47 00.1 BOTTLE FILLER |
| 07 21 00.3 RIGID INSULATION | 08 51 13.1 ALUMINUM WINDOWS | 10 28 00.7 COAT HOOK | 23 34 00.1 EXHAUST FAN (REFER TO MECHANICAL) |
| 07 21 00.4 INSULATION BAFFLE | 08 80 00.1 GLAZING | 10 28 00.8 FRAMED MIRROR UNIT | 23 37 33 HVAC LOUVERS (REFER TO MECHANICAL) |
| 07 25 00.1 AIR BARRIER | 09 22 16.1 METAL "Z" FURRING | 10 28 00.9 UNDER LAVATORY GUARD | 26 00 00.1 LIGHT FIXTURES (REFER TO ELECTRICAL) |
| 07 41 13.1 METAL ROOF PANELS | 09 29 00.1 5/8" GYPSUM BOARD | 10 28 00.10 MOP HOLDER / SHELF | 33 46 00.1 FOUNDATION DRAIN |
| 07 41 13.2 METAL GUTTERS | 09 29 00.2 1/2" GYPSUM BOARD | 10 44 13.1 SEMI-RECESSED FIRE EXTINGUISHER CABINET | |
| 07 41 13.3 METAL DOWNSPOUTS | 09 29 00.3 SOUND ATTENUATION BLANKETS | 10 44 13.2 SURFACE-MTD. FIRE EXTINGUISHER CABINET | |
| | 09 29 00.4 TILE BACKING PANELS | 10 51 13.1 LOCKERS | |


JMSA ARCHITECTURE

**Jerome M. Scott Architects**
1020 Goodale Blvd
Columbus, Ohio
43212


STATE OF OHIO
DANIEL BOYNE
12156592
Exp. 12/31/2023
REGISTERED ARCHITECT

DOT-200023
ODOT - EATON OUTPOST
5656 US-127 Eaton, Ohio 45320

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| 3 | 3/11/2022 | REVISION 3 |
| 2 | 3/11/2022 | REVISION 2 / CONFORMED SET |
| 1 | 12/17/2021 | REVISION 1 PERMIT / BID SET |
| - | 12/10/2021 | BID SET |
| - | 11/12/2021 | PERMIT SET |
| MARK | DATE | DESCRIPTION |

PROJECT NO: **DOT-200023**
DATE: **12/17/2021**
DRAWN BY: **MWM**


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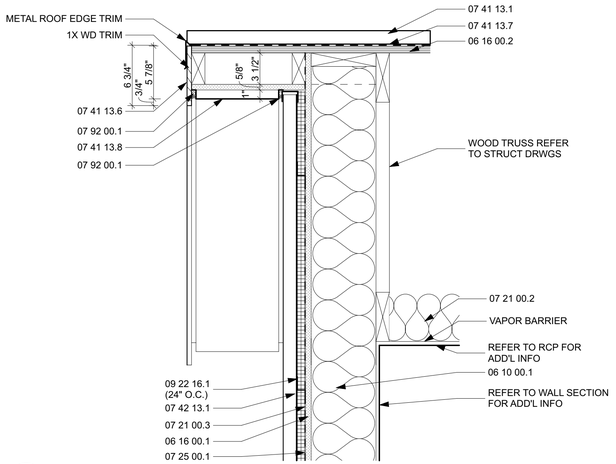
SHEET TITLE

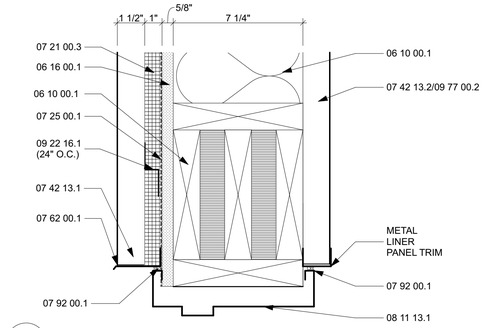
**EXTERIOR DETAILS**

A-900



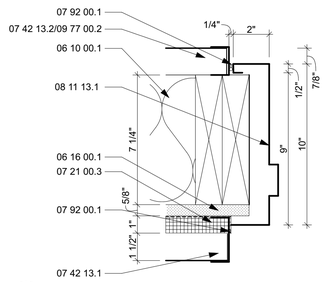

B1 A-901 WASHBAY ROOF DETAIL

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



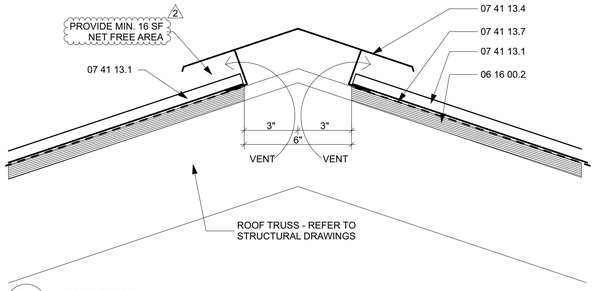

A2 A-901 EXTERIOR DOOR HEAD - WOOD FRAME

SCALE: 3" = 1'-0"



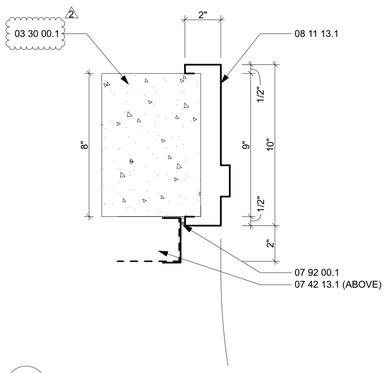

C2 A-901 EXTERIOR DOOR JAMB - WOOD FRAME

SCALE: 3" = 1'-0"




C1 A-901 ROOF RIDGE

SCALE: 3" = 1'-0"




D1 A-901 EXTERIOR DOOR JAMB - CONC. WALL

SCALE: 3" = 1'-0"

SPECIFICATION NOTES:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
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| 03 30 00.3 | VAPOR BARRIER | 07 41 13.5 | CAST-IRON DOWNSPOUT BOOT | 09 51 13.1 | ACOUSTICAL CEILING TILE | 11 11 00.2 | TRENCH DRAIN CATCH BASIN |
| 03 30 00.4 | GRAVEL BASE | 07 41 13.6 | METAL FASCIA | 09 65 13.1 | RESILIENT BASE | 11 11 00.5 | COMPRESSED AIR REEL |
| 03 30 00.7 | EXPANSION JT | 07 41 13.7 | UNDERLAYMENT | 09 67 00.1 | EPOXY FLOORING SYSTEM | 11 11 00.9 | WATER REEL AND HOSE |
| 03 30 00.8 | GROUT | 07 41 13.8 | PERFORATED METAL SOFFIT PANEL | 09 77 00.1 | FRP PANELS | 11 11 10.1 | PRESSURE WASHER |
| 05 50 00.1 | GALVANIZED STEEL BOLLARD W/ COVER | 07 42 13.1 | METAL WALL PANELS | 09 77 00.2 | INTERLOCKING PVC PANELS | 11 11 10.2 | PRESSURE WASHER TROLLEY SYSTEM |
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| 06 10 00.1 | WOOD FRAMING | 07 62 00.1 | METAL FLASHING | 10 11 00.1 | MARKER BOARD | 11 11 10.4 | VEHICLE WASH PUMP |
| 06 10 00.2 | WOOD FURRING @ 24" O.C. | 07 72 53.1 | SNOW GUARD | 10 11 00.2 | TACK BOARD | 11 11 10.5 | VECHICLE WASH TANK |
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| 06 41 16.3 | SOLID SURFACE WINDOW SILL | 08 36 13.1 | OVERHEAD SECTIONAL DOORS | 10 28 00.4 | SOAP DISPENSER | 12 21 13.1 | HORIZONTAL LOUVER BLINDS |
| 07 21 00.1 | FOUNDATION INSULATION | 08 36 14.1 | WASHBAY OVERHEAD DOORS | 10 28 00.5 | GRAB BAR | 22 00 00.1 | PLUMBING FIXTURE(REFER TO PLUMBING DRAWINGS) |
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| 07 41 13.3 | METAL DOWNSPOUTS | 09 29 00.3 | SOUND ATTENUATION BLANKETS | 10 44 13.2 | SURFACE-MTD. FIRE EXTINGUISHER CABINET | | |
| | | 09 29 00.4 | TILE BACKING PANELS | 10 51 13.1 | LOCKERS | | |


JMSA ARCHITECTURE

**Jerome M. Scott Architects**
1020 Goodale Blvd
Columbus, Ohio
43212


STATE OF OHIO
DANIEL BOYNE
12186692
Exp. 12/31/2023
REGISTERED ARCHITECT

DOT-200023
ODOT - EATON OUTPOST

5656 US-127 Eaton, Ohio 45320

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| 3 | 3/11/2022 | REVISION 3 |
| 2 | 3/11/2022 | REVISION 2 / CONFORMED SET |
| 1 | 12/17/2021 | REVISION 1 PERMIT / BID SET |
| - | 12/10/2021 | BID SET |
| - | 11/12/2021 | PERMIT SET |
| MARK | DATE | DESCRIPTION |

PROJECT NO: **DOT-200023**
DATE: **12/17/2021**
DRAWN BY: **MWM**


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SHEET TITLE

**EXTERIOR DETAILS**

A-901

## DOOR SCHEDULE

| DOOR NUMBER | | ROOM NAME | NOMINAL WIDTH | NOMINAL HEIGHT | LEAF THICKNESS | MATL | TYPE | FRAME TYPE | DETAIL | | HDWR. SET | FIRE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ROOM | ID | | | | | | | | HEAD | JAMB | | | |
| 100 | A | BREAK ROOM | 3'-0" | 7'-0" | 1 3/4" | HM | NARROW LITE | HM-1 | B5/A501 | B5/A501 | 02 | Unrated | |
| 101 | A | OFFICE | 3'-0" | 7'-0" | 1 3/4" | HM | FLUSH | HM-2 | B5/A501 | B5/A501 | 01 | Unrated | 18" SIDELITE |
| 102 | A | RESTROOM | 3'-0" | 7'-0" | 1 3/4" | HM | FLUSH | HM-1 | B5/A501 | B5/A501 | 03 | Unrated | |
| 103 | A | TRUCK STORAGE | 3'-0" | 7'-0" | 1 3/4" | HM | NARROW LITE | HM-1 | A2/A901 | C2 & D1/A901 | 04 | Unrated | |
| 103 | B | TRUCK STORAGE | 3'-0" | 7'-0" | 1 3/4" | HM | NARROW LITE | HM-1 | A2/A901 | C2 & D1/A901 | 04 | Unrated | |
| 103 | C | TRUCK STORAGE | 16'-0" | 14'-0" | --- | STL | OVERHEAD | --- | D2/A900 | C2+C3/A900 | --- | Unrated | |
| 103 | D | TRUCK STORAGE | 16'-0" | 14'-0" | --- | STL | OVERHEAD | --- | D2/A900 | C2+C3/A900 | --- | Unrated | |
| 103 | E | TRUCK STORAGE | 16'-0" | 14'-0" | --- | STL | OVERHEAD | --- | D2/A900 | C2+C3/A900 | --- | Unrated | |
| 103 | F | TRUCK STORAGE | 16'-0" | 14'-0" | --- | STL | OVERHEAD | --- | D2/A900 | C2+C3/A900 | --- | Unrated | |
| 103 | G | TRUCK STORAGE | 16'-0" | 14'-0" | --- | STL | OVERHEAD | --- | D2/A900 | C2+C3/A900 | --- | Unrated | |
| 103 | H | TRUCK STORAGE | 16'-0" | 14'-0" | --- | STL | OVERHEAD | --- | D2/A900 | C2+C3/A900 | --- | Unrated | |
| 103 | J | TRUCK STORAGE | 16'-0" | 14'-0" | --- | STL | OVERHEAD | --- | D2/A900 | C2+C3/A900 | --- | Unrated | |
| 104 | A | WASHBAY | 3'-0" | 7'-0" | 1 3/4" | FG | FLUSH | FG-1 | A2/A901 (SIM.) | C2 & D1/A901 (SIM.) | 05 | Unrated | ALL HARDWARE TO BE STAINLESS STEEL |
| 104 | B | WASHBAY | 3'-0" | 7'-0" | 1 3/4" | FG | FLUSH | FG-1 | A2/A901 (SIM.) | C2 & D1/A901 (SIM.) | 04 | Unrated | ALL HARDWARE TO BE STAINLESS STEEL |
| 104 | C | WASHBAY | 16'-0" | 14'-0" | --- | STL | OVERHEAD | --- | D2/A900 | C2+C3/A900 | --- | Unrated | ALL HARDWARE TO BE STAINLESS STEEL |
| 105 | A | TRUCK STORAGE | 6'-0" | 7'-0" | 1 3/4" | HM | FLUSH | HM-1 | B5/A501 | B5/A501 + D1/A901 | 07 | 1.5 hours | |
| 105 | B | TRUCK STORAGE | 3'-0" | 7'-0" | 1 3/4" | HM | NARROW LITE | HM-1 | B5/A501 | B5/A501 + D1/A901 | 06 | 1.5 hours | |

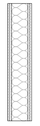
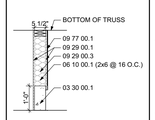
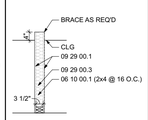
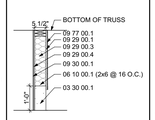
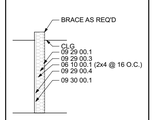
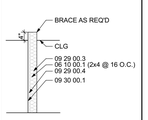
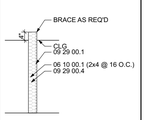
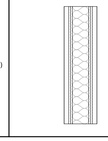
## FINISH SCHEDULE

| ROOM | | FINISH - FLOOR | FINISH- BASE | WALL FINISH/N | WALL FINISH/E | WALL FINISH/S | WALL FINISH/W | CEILING | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| NUMBER | NAME | | | | | | | | |
| 100 | BREAK ROOM | EF | EF | GB-PT | GB-PT | GB-PT | GB-PT | ACT | |
| 101 | OFFICE | EF | EF | GB-PT | GB-PT | GB-PT | GB-PT | ACT | |
| 102 | RESTROOM | EF | EF | CT | CT | CT | CT | GB-PT | |
| 103 | TRUCK STORAGE | CONC | --- | CONC/MLP | CONC/MLP | CONC/MLP | CONC/MLP/ FRP-1 | MLP | EPOXY FLOORING AT ENTRY, SEE FLOOR PLAN FOR EXTENTS. |
| 104 | WASHBAY | SFC | --- | PT/PVC | PT/PVC | PT/PVC | PT/PVC | PVC | |
| 105 | TRUCK STORAGE | CONC | --- | CONC/MLP | CONC/MLP | CONC/MLP | CONC/MLP | MLP | |

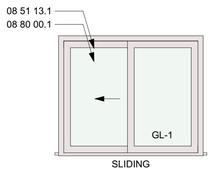
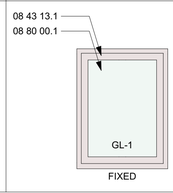
### FINISH LEGEND

ACT: ACOUSTICAL CEILING TILE (09 51 13)
CONC: CONCRETE (03 30 00.1)
CT: CERAMIC TILE (09 30 00)
EF: EPOXY FLOORING (09 67 00)
FRP-1: FRP PANELS (09 77 00.1)
PVC: INTERLOCKING PVC PANELS (09 77 00.2)
MLP: METAL LINER PANELS (07 42 13.2)
GB: GYPSUM BOARD (09 29 00)
PT: PAINT (09 91 23/09 96 00)
SFC: SILICA FUME CONCRETE (03 30 10)

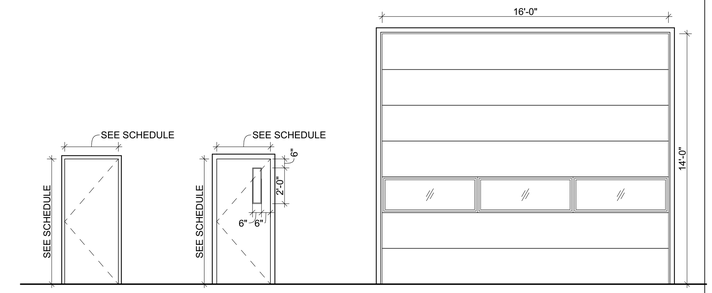
## PARTITION SCHEDULE

| PARTITION TYPE | P1 (SUBSTITUTE WD SHEATHING FOR GYP BD ON TRUCK STORAGE SIDE AT SHEAR WALL LOCATION PER STRUCTURAL.) | P2 | P3 | P4 | P5 | P6 | P6: OFFICE_PART: 5/8"GYP_3-1/2"WSTD | P9: 1 1/2"METAL PANEL LINER_DBL 5/8" GYP_5-1/2"WD+INSUL_DOUBLE 5/8"GYP_METAL LINER PANEL |
|---|---|---|---|---|---|---|---|---|
| SECTION |  |  |  |  |  |  |  |  |

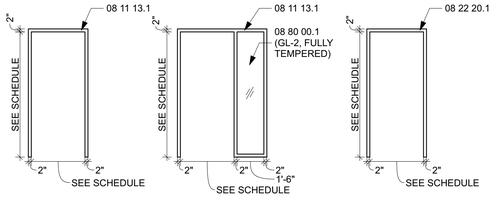
## WINDOW SCHEDULE

| ID | W-1 | W-2 |
|---|---|---|
| UNIT SIZE | 4'-0"×3'-4" | 2'-6"×3'-4" |
| WINDOW TYPE |  |  |






B4 / A-1000 DOOR TYPES
SCALE: 1/4" = 1'-0"




B4 / A-1000 DOOR FRAME TYPES
SCALE: 1/4" = 1'-0"

## FINISH GENERAL NOTES:

1. THE FLOOR FINISH TRANSITION AT DOOR OPENINGS SHALL ALIGN WITH CENTER OF THE DOOR (NOT FRAME). COORDINATE INSTALLATION IN THE FIELD AT EACH OPENING.

2. THE COLOR CHANGE FOR DOOR FRAMES SHALL OCCUR AT THE HINGE SIDE OF THE DOOR STOP (INSIDE CORNER).

3. ALL FIELD PAINTED ITEMS SURFACE MOUNTED AND/OR SUSPENDED SHALL BE PAINTED TO MATCH THE ADJACENT SURFACE. SPECIFIC ITEMS IN QUESTION DUE TO CLOSE PROXIMITY OF MULTIPLE COLORS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PAINTING.

4. JOINT SEALANTS SHALL MATCH THE ADJACENT SURFACES. PROVIDE INSTALLED SAMPLE FOR THE ARCHITECT'S REVIEW PRIOR TO COMMENCING WORK.

5. PAINT ACCESS DOORS AND FRAMES TO MATCH ADJACENT SURFACES.

6. ALL EXTERIOR LOUVERS AND EXHAUST VENTS/CAPS SHALL BE PAINTED. CUSTOM MATCH EXTERIOR METAL PANELS.

## PARTITION NOTES:

1. PARTITION TYPES INDICATED ARE CONTINUOUS TO A CORNER OR AN INTERLOCKING PARTITION UNLESS INDICATED OTHERWISE. WHERE PARTITIONS OF DIFFERENT THICKNESSES MEET, MAINTAIN A FLUSH SURFACE ON THE SIDE WHERE FACES ARE STRAIGHT AND CONTINUOUS, UNLESS NOTED OTHERWISE.

2. DESIGN AND DETAILING SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE AMERICAN WOOD COUNCIL.

3. EDGES OF GYPSUM WALL BOARD LEFT EXPOSED TO VIEW, OR ABUTTING DISSIMILAR MATERIAL ARE TO BE FINISHED WITH METAL EDGE TRIM AND COMPOUND UNLESS NOTED OTHERWISE (NO "S" BEADS).

4. PROVIDE DOUBLE STUDS AT ALL DOOR JAMBS.

5. PROVIDE FOR DEFLECTION AT ALL FULL HEIGHT PARTITIONS.

## SPECIFICATION NOTES:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 03 30 00.1 | CAST IN-PLACE CONCRETE | 07 41 13.4 | METAL ROOF RIDGE VENT | 09 30 00.1 | CERAMIC TILE | 11 11 00.1 | TRENCH DRAIN |
| 03 30 00.3 | VAPOR BARRIER | 07 41 13.5 | CAST-IRON DOWNSPOUT BOOT | 09 51 13.1 | ACOUSTICAL CEILING TILE | 11 11 00.2 | TRENCH DRAIN CATCH BASIN |
| 03 30 00.4 | GRAVEL BASE | 07 41 13.6 | METAL FASCIA | 09 65 13.1 | RESILIENT BASE | 11 11 00.5 | COMPRESSED AIR REEL |
| 03 30 00.7 | EXPANSION JT | 07 41 13.7 | UNDERLAYMENT | 09 67 00.1 | EPOXY FLOORING SYSTEM | 11 11 00.9 | WATER REEL AND HOSE |
| 03 30 00.8 | GROUT | 07 41 13.8 | PERFORATED METAL SOFFIT PANEL | 09 77 00.1 | FRP PANELS | 11 11 10.1 | PRESSURE WASHER |
| 05 50 00.1 | GALVANIZED STEEL BOLLARD W/ COVER | 07 42 13.1 | METAL WALL PANELS | 09 77 00.2 | INTERLOCKING PVC PANELS | 11 11 10.2 | PRESSURE WASHER TROLLEY SYSTEM |
| 05 50 00.2 | HDPE BOLLARD COVER | 07 42 13.2 | METAL LINER PANELS | 09 96 00.1 | EPOXY PAINT | 11 11 10.3 | UNDERCARRIAGE WASH |
| 06 10 00.1 | WOOD FRAMING | 07 62 00.1 | METAL FLASHING | 10 11 00.1 | MARKER BOARD | 11 11 10.4 | VEHICLE WASH PUMP |
| 06 10 00.2 | WOOD FURRING @ 24" O.C. | 07 72 53.1 | SNOW GUARD | 10 11 00.2 | TACK BOARD | 11 11 10.5 | VECHICLE WASH TANK |
| 06 16 00.1 | 5/8" SHEATHING | 07 92 00.1 | JOINT SEALANTS | 10 22 13.1 | WIRE MESH PARTITION | 11 11 10.6 | PRESSURE WASHER REMOTE SYSTEM |
| 06 16 00.2 | ROOF SHEATHING | 08 11 13.1 | HOLLOW METAL DOORS/FRAMES | 10 28 00.1 | TOILET TISSUE DISPENSER | 11 11 10.7 | VEHICLE WASH SWITCH |
| 06 41 16.1 | CABINET | 08 22 20.1 | FIBERGLASS DOORS/FRAMES | 10 28 00.2 | PAPER TOWEL DISPENSER | 11 30 13.1 | MICROWAVE |
| 06 41 16.2 | SOLID SURFACE COUNTERTOP | 08 31 13.1 | ACCESS PANEL | 10 28 00.3 | WASTE RECEPTACLE | 11 30 13.2 | REFRIGERATOR |
| 06 41 16.3 | SOLID SURFACE WINDOW SILL | 08 36 13.1 | OVERHEAD SECTIONAL DOORS | 10 28 00.4 | SOAP DISPENSER | 12 21 13.1 | HORIZONTAL LOUVER BLINDS |
| 07 21 00.1 | FOUNDATION INSULATION | 08 36 14.1 | WASHBAY OVERHEAD DOORS | 10 28 00.5 | GRAB BAR | 22 00 00.1 | PLUMBING FIXTURE(REFER TO PLUMBING DRAWINGS) |
| 07 21 00.2 | BATT INSULATION | 08 43 13.1 | ALUMINUM FRAME STOREFRONTS | 10 28 00.6 | SANITARY NAPKIN DISPOSAL | 22 47 00.1 | BOTTLE FILLER |
| 07 21 00.3 | RIGID INSULATION | 08 51 13.1 | ALUMINUM WINDOWS | 10 28 00.7 | COAT HOOK | 23 34 00.1 | EXHAUST FAN (REFER TO MECHANICAL) |
| 07 21 00.4 | INSULATION BAFFLE | 08 80 00.1 | GLAZING | 10 28 00.8 | FRAMED MIRROR UNIT | 23 37 33 | HVAC LOUVERS (REFER TO MECHANICAL) |
| 07 25 00.1 | AIR BARRIER | 09 22 16.1 | METAL "Z" FURRING | 10 28 00.9 | UNDER LAVATORY GUARD | 26 00 00.1 | LIGHT FIXTURES (REFER TO ELECTRICAL) |
| 07 41 13.1 | METAL ROOF PANELS | 09 29 00.1 | 5/8" GYPSUM BOARD | 10 28 00.10 | MOP HOLDER / SHELF | 33 46 00.1 | FOUNDATION DRAIN |
| 07 41 13.2 | METAL GUTTERS | 09 29 00.2 | 1/2" GYPSUM BOARD | 10 44 13.1 | SEMI-RECESSED FIRE EXTINGUISHER CABINET | | |
| 07 41 13.3 | METAL DOWNSPOUTS | 09 29 00.3 | SOUND ATTENUATION BLANKETS | 10 44 13.2 | SURFACE-MTD. FIRE EXTINGUISHER CABINET | | |
| | | 09 29 00.4 | TILE BACKING PANELS | 10 51 13.1 | LOCKERS | | |


JMSA ARCHITECTURE

**Jerome M. Scott Architects**
1020 Goodale Blvd
Columbus, Ohio
43212


STATE OF OHIO
DANIEL BOYNE
1215592
Exp. 12/31/2023
REGISTERED ARCHITECT

DOT-200023
ODOT - EATON OUTPOST

5656 US-127 Eaton, Ohio 45320

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| | | |
| 3 | 3/11/2022 | REVISION 3 |
| 2 | 3/11/2022 | REVISION 2 / CONFORMED SET |
| 1 | 12/17/2021 | REVISION 1 PERMIT / BID SET |
| - | 12/10/2021 | BID SET |
| - | 11/12/2021 | PERMIT SET |
| MARK | DATE | DESCRIPTION |

PROJECT NO: **DOT-200023**
DATE: **12/17/2021**
DRAWN BY: **MWM**


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SHEET TITLE

**SCHEDULES**

A-1000

UL Product iQ™

# BXUV.U301 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

## Fire-resistance Ratings - ANSI/UL 263

## BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

## BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire-resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

## Design No. U301

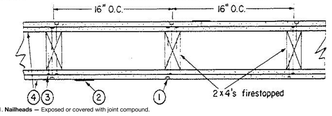
February 14, 2022

**Bearing Wall Rating — 2 Hr.**
**Finish Rating — 66 Min.**
**This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7**

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**








1. **Nailheads** — Exposed or covered with joint compound.

2. **Joints —** Exposed joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape.

3. **Nails —** 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam, 1/4 in. diam heads, and 8d cement coated nails 2-3/8 in. long, 0.113 in. shank diam, 9/32 in. diam heads.

4. **Gypsum Board* —** 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with the 1-7/8 in. nails spaced 8 in. OC. Outer layer attached to studs over inner layer with the 2-3/8 in. long nails spaced 8 in. OC. Vertical joints located over studs. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.
When used in widths other than 48 in., gypsum board to be installed horizontally.

When **Steel Framing Members*** (Item 6 or any alternate clips) are used, base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced max 24 in. OC; face layer attached with 1-5/8 in. long Type S bugle-head steel screws spaced max 12 in. OC.

**AMERICAN GYPSUM CO** — Types AGX-1, M-Glass, AG-C, AGX-11, LightRoc

**BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO** — Type DBX-1

**CABOT MANUFACTURING ULC** — Type X, 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

**CERTAINTEED GYPSUM INC** — Types EGRG, GlasRoc, GlasRoc-2, Type C, Type X, Type X-1

**CGC INC** — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

**CERTAINTEED GYPSUM INC** — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX, CLLX

**GEORGIA-PACIFIC GYPSUM L L C** — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPX56, LS, TG-C, Type X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X, GreenGlass Type X, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type- DGLW, Soffit-Type DGLW, Type LWDX, Veneer Plaster Base - Type LWDX, Water Rated - Type LWDX, Sheathing - Type LWDX, Soffit - Type LWDX, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W

**NATIONAL GYPSUM CO** — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-8, FSW-C, FSW-G, FSWR-C, FSL, RSX

**NATIONAL GYPSUM CO** — Riyadh, Saudi Arabia — Type FR, or WR.





**PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM** — Types C, PG-2, PG-3, PG-3W, PG-4, PG-5, PG-5W, PG-5WS, PG-9, PG-11, PG-C, PGS-WRS, PGI

**PANEL REY S A** — Types PRC, PRC2, PRX, RHX, MDX, ETX, GREX, GRIX

**SIAM GYPSUM INDUSTRY (SARABURI) CO LTD** — Type EX-1

**THAI GYPSUM PRODUCTS PCL** — Type C or Type X

**UNITED STATES GYPSUM CO** — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

**USG BORAL DRYWALL SFZ LLC** — Types C, SCX, USGX

**USG MEXICO S A DE C V** — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX

4A. **Gypsum Board* —** (As an alternate to Item 4) — Nom 3/4 in. thick, installed as described in Item 4.
**CGC INC** — Types AR, IP-AR

**UNITED STATES GYPSUM CO** — Types AR, IP-AR

**USG MEXICO S A DE C V** — Types AR, IP-AR

4B. **Gypsum Board* —** (As an alternate to Items 4 and 4A) — 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 4. Joint covering (Item 2) not required.
**CGC INC** — Type SHX

**UNITED STATES GYPSUM CO** — Type SHX

**USG MEXICO S A DE C V** — Type SHX

4C. **Gypsum Board* —** (As an alternate to Items 4, 4A or 4B — Not Shown) — For Direct Application to Studs Only- For use on one or both sides of the wall as the base layer or one or both sides of the wall as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws. Fit one at the top of the strip and one at the bottom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten strips or optional at other locations. Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.
**RAY-BAN ENGINEERING CORP** — Type RB-LBG.

4D. **Gypsum Board* —** As an Alternate to Item 4 — 5/8 in. thick applied either horizontally or vertically. Inner layers fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. Outer layers fastened to framing with 1-7/8 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in.





OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.
**AMERICAN GYPSUM CO** — Types AGX-1, M-Glass, AG-C, LightRoc

4E. **Gypsum Board* —** (As an alternate to Items 4 through 4D) — 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically and secured as described in Item 4.
**GEORGIA-PACIFIC GYPSUM L L C** — Type X ComfortGuard Sound Deadening Gypsum Board

4F. **Gypsum Board* —** (As an alternate to Item 4) — Not to be used with item 6, 6A, 6B or 6C. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically and secured as described in Item 4.
**NATIONAL GYPSUM CO** — Type SBWB

4G. **Gypsum Board * —** (As an alternate to Items 4 through 4F) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.
**PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM** — Types QuietRock ES

4H. **Gypsum Board* —** (As an alternate to Item 4) — Not to be used with item 6, 6A, 6B, or 6C. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically or horizontally and secured as described in Item 4.
**CERTAINTEED GYPSUM INC** — Type SilentFX

4I. **Gypsum Board* —** (As an alternate to Item 4) — 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with 1-1/4 in. long Type W steel screws spaced 8 in. OC. Outer layer attached to studs over inner layer with 2 in. long Type W steel screws spaced 8 in. OC offset 6 in. from base layer. Vertical joints located over studs. Vertical and horizontal joints between inner and outer layers staggered. Outer layer joints covered with joint tape and compound, screwheads covered with joint compound. As an alternate to the joint compound nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Wallboard other than 48 in. wide must be applied horizontally. The SoundBreak XP Type X Gypsum Board is not to be used with Item 6, 6A, 6B, or 6C.
**NATIONAL GYPSUM CO** — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-C, FSW-G, FSWR-C, SBWB

4J. **Gypsum Board* —** (As an alternate to Items 4) — For Direct Application to Studs Only- For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, max 5/16 in. diam by max 0.140 in. thick, compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.
**MAYCO INDUSTRIES INC** — "X-Ray Shielded Gypsum"

4K. **Gypsum Board* —** For use with Item 7 — 5/8 in. thick, two layers applied vertically. Inner layer attached to resilient channels with 1 in. long steel screws spaced 8 in. OC. Outer layer attached to resilient channels over inner layer with 1-5/8 in. long steel screws spaced 8 in. OC. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side. Insulation, Items 8 or 9 is required.
**AMERICAN GYPSUM CO** — Types AGX-1, M-Glass, AG-C, AGX-11

**NATIONAL GYPSUM CO** — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-C, FSW-G, FSWR-C, SBWB.

4L. **Gypsum Board* —** As an Alternate to Item 4 — For Direct Application to Studs Only- For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in.





placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.080 in. thick, compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.
**RADIATION PROTECTION PRODUCTS INC** — Type RPP - Lead Lined Drywall

4M. **Gypsum Board* —** (As an alternate to Item 4) — 5/8 in. thick, 4 ft. wide, two layers applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 4.
**CERTAINTEED GYPSUM INC** — 5/8" Easi-Lite Type X

4N. **Gypsum Board* —** (As an alternate to 5/8 in. Type FSW in Items 4 or 4I) — Nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Two layers of 5/16 in. for every single layer of 5/8 in. gypsum board described in Item 4 or 4I. Horizontal joints on the same side need not be staggered. Inner layer of each double 5/16 in. layer attached with fasteners, as described in Item 4 or 4I, spaced 24 in. OC. Outer layer of each double 5/16 in. layer attached per Item 4 or 4I.
**NATIONAL GYPSUM CO** — Type FSW

4O. **Wall and Partition Facings and Accessories* —** (As an alternate to Items 4 through 4N) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.
**PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM** — Type QuietRock 527

4P. **Gypsum Board* —** (As an alternate to Item 4) — 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with 1-1/4 in. long Type W steel screws spaced 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. Outer layer attached to studs over inner layer with 1-7/8 in. long Type W steel screws spaced 10 in. OC offset 5 in. from base layer with the last two screws 4 and 1 in. from the edges of the board. Vertical joints located over studs. Vertical and horizontal joints between inner and outer layers staggered. Outer layer joints covered with joint tape and compound, screwheads covered with joint compound. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
**CERTAINTEED GYPSUM INC** — Type LGFC6A, Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

4Q. **Gypsum Board* —** (As an alternate to Item 4. For use with Item 13) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board UL Classified for Fire Resistance (CKNX) eligible for use in Design No. U305 or U501 or G512. Two layers, applied either horizontally or vertically, and screwed to studs with 1-5/8 in. long Type W coarse thread steel screws at 8 in. OC at perimeter and in the field with the last two screws 4 and 3/4 in. from the edges of the board when applied as the base layer. For the face layer, screw length to be increased to 2-1/2 in. All joints in face layers staggered with joints in base layers. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

4R. **Gypsum Board* —** As an Alternate to Item 4 — 5/8 in. thick applied either horizontally or vertically. Inner layers fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. Outer layers fastened to framing with 1-7/8 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.
**CERTAINTEED GYPSUM INC** — Types EGRG, GlasRoc, GlasRoc-2, Type C, Type X, Type X-1, Easi-Lite Type X, SilentFX

4S. **Gypsum Board* —** (As an alternate to Item 4. For use with Item 13A) — 5/8 in. thick, two layers applied vertically. Inner layer attached to studs with the 1-7/8 in. nails spaced 6 in. OC. Outer layer attached to studs over inner layer with the 2-3/8 in. long nails spaced 8 in. OC. Vertical joints located over studs. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.
**AMERICAN GYPSUM CO** — Types AGX-1

**BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO** — Type DBX-1

**CABOT MANUFACTURING ULC** — "5/8 Type X"

**CERTAINTEED GYPSUM INC** — Type X





**CGC INC** — Type SCX

**PANEL REY S A** — Type PRX

**SIAM GYPSUM INDUSTRY (SARABURI) CO LTD** — Type EX-1

**THAI GYPSUM PRODUCTS PCL** — Type X

**UNITED STATES GYPSUM CO** — Type SCX

**USG BORAL DRYWALL SFZ LLC** — Types SCX

**USG MEXICO S A DE C V** — Type SCX

4T. **Gypsum Board* —** (As an alternate to Item 4. For use with Item 13B) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 4 above. Two layers applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. All joints in outer layers staggered with joints in inner layers. Inner layer attached to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Outer layer attached to studs over inner layer with the 2-1/2 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC.

5. **Molded Plastic* —** Not Shown, Optional — Solid vinyl siding mechanically secured over the outer layer to framing members in accordance with manufacturer's recommended installation details.
**ALSIDE, DIV OF ASSOCIATED MATERIALS INC**

**GENTEK BUILDING PRODUCTS LTD**

**VYTEC CORP**

6. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
A. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-3/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Wallboard attached to furring channels as described in Item 4.

B. **Steel Framing Members* —** Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-3/3/2 in. wide furring channels.
**PAC INTERNATIONAL L L C** — Types RSIC-1, RSIC-1 (2.75)

6A. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
A. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

B. **Steel Framing Members* —** Used to attach furring channels (Item 6Aa) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
**STUDCO BUILDING SYSTEMS** — RESILMOUNT Sound Isolation Clips - Type A237R

6B. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:





A. **Furring Channels —** Formed of No. 25 MSG galv steel, Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4.

B. **Steel Framing Members* —** Used to attach resilient channels (Item 6Ca) to studs, Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
**KEENE BUILDING PRODUCTS CO INC** — Type RC- Assurance Clip

6D. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Used as an alternate method to attach resilient channels to wall studs. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 24 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions.
**PAC INTERNATIONAL L L C** — Type RC-1 Boost

6E **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
a **Furring Channels —** Formed of No. 25 MSG galv steel, 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 4.

b **Steel Framing Members* —** Used to attach furring channels (Item 6Ea) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.

**CLARKDIETRICH BUILDING SYSTEMS** — Type ClarkDietrich Sound Clip

7. **Furring Channel** — Optional — Not Shown — For use on one side of the wall with Item 4K — Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Item 8 or 9 is required.

8. **Batts and Blankets* —** Required for use with resilient channels, Item 7, min. 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the nom 4 in. face of the studs with staples placed 24 in. OC.
**ROCKWOOL** — Type SAFEnSOUND

**THERMAFIBER INC** — Type SAFB, SAFB FF

9. **Batts and Blankets* —** (As an alternate to Item 8) — Min. 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the stud cavities. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.





9A. **Fiber, Sprayed* —** (Optional) — As an alternate to Batts and Blankets (Item 8), Required for use with resilient channels, Item 7, Not for use with Item 6, 6A, 6B, or 6C. — Spray applied mineral wool insulation. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ).
**AMERICAN ROCKWOOL MANUFACTURING, LLC** — Type Rockwool Premium Plus

10. **Wall and Partition Facings and Accessories* —** (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified gypsum board.
**PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM** — Type QuietRock QR-500 or QR-510

11. **Cementitious Backer Units* —** (Optional Item Not Shown — For Use On Face Of 2 Hr Systems With All Standard Items Required) — 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide. Applied horizontally or vertically with vertical joints centered over studs. Face layer fastened over gypsum board to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for wood framing members, and a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC.
**NATIONAL GYPSUM CO** — Type DuraBacker, PermaBase, DuraBacker Plus, or PermaBase Plus

12. **Wall and Partition Facings and Accessories* —** (Optional, Not Shown) - When the Wall Assembly is used as an External Wall, on the External side of the wall one of the following Wall and Partition and Facing Accessories may be used, refer to items (A) to (C) below.
A. **Non Insulated system with metal channels —** Install moisture barrier over the Gypsum Board Item 4 and Install Acry Metal Channels vertically at a horizontal spacing not greater than 24 inches OC., over the moisture barrier. Acry Metal Channels attached through the moisture barrier and the Gypsum Board to the Wood Studs using fasteners specified by the manufacturer and fasteners spaced max., 24 in. OC. Install Acrytec Panels on Acry Metal Channels using 1-1/4" long corrosion coated stainless steel screws spaced at a max spacing of 24 inches OC, along with manufacturer's approved adhesive (3M 540 or Tremco Vulcum 116). Adhesive to be applied in a zigzag pattern along every channel. Joint treatment in between panels shall be Tremco illmod 600 pre-compressed polyurethane foam sealant.

B. **Insulated system with metal channels —** Install moisture barrier over the Gypsum Board Item 4. Install galvanized Z girt channels specified by the manufacturer over the moisture barrier and the Gypsum Board Item 4. Z girt channels to be installed horizontally at a max. spacing of 24" OC. Z girt channels attached through the Gypsum Board and the moisture barrier to the wood studs with screws provided by the manufacturer at a max spacing of 24 inches OC. Install mineral wool insulation between the Z girts. Maximum thickness of mineral wool insulation not to exceed 6 in. As per manufacturer's instructions install Acry Metal Channels vertically over the Z girts at a max horizontal spacing of 24 in. OC. Acrytec Panels installed on Acry channel with 1-1/4" long corrosion coated stainless steel screws at a max spacing of 24 in. OC, along with manufacturers approved adhesive (3M 540 or Tremco Vulcum 116). Adhesive to be applied in a zigzag pattern along every channel. Joint treatment in between panels to be Tremco illmod 600 pre compressed polyurethane foam sealant.

C. **Non insulated wood strapping system —** Install moisture barrier over the Gypsum Board Item 4 and Install 1" x 3" wood strapping vertically at a horizontal spacing not greater than 24 inches OC., over the moisture barrier. 1" x 3" wood strapping attached through the moisture barrier and the Gypsum Board to the Wood Studs using fasteners specified by the manufacturer and fasteners spaced max., 24 in. OC. Acrytec Panels to be installed on the 1" x 3" wood strapping using manufacturers approved stainless steel fasteners spaced at maximum 24 inches OC along with Tremco Vulcum 116 adhesive applied in a zigzag pattern along every wood strap. Joint treatment in between panels to be Tremco illmod 600 pre compressed polyurethane foam sealant.

D. **Insulated Wood Strapping System —** Install moisture barrier over the Gypsum Board Item 4. Install Extruded Polystyrene Insulation over moisture barrier and the Gypsum Board Item 4, max thickness of insulation not to exceed 4 inches. Install 1" x 3" wood strapping vertically at a horizontal spacing not greater than 24 inches OC. Wood strapping attached through the Insulation, the Gypsum Board and moisture barrier to the Wood Studs using fasteners specified by the manufacturer and fasteners spaced max. 24 in. OC. Acrytec Panels to be installed over the wood strapping using manufacturers approved stainless steel fasteners at a max





spacing of 24 in. OC and Tremco Vulcum 116 adhesive applied in a zigzag pattern along every wood strap. Joint treatment in between panels to be Tremco illmod 600 pre compressed polyurethane foam sealant.

**ACRYTEC PANEL INDUSTRIES** — Nominal 5/8 inch thick Acrytec Panel.

13. **Foamed Plastic* —** (Optional, Not Shown - For use with Item 4Q) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
**SES FOAM INC** — Nexseal™ 2.0 or Nexseal™ 2.0 LE Spray Foam and Sucroseal Spray Foam. For use in Bearing and Non-Load Bearing Walls.

13A. **Foamed Plastic* —** (Optional, Not Shown - For use with Item 4S) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
**GACO WESTERN L L C** — Types GacoEZSpray F4500, GacoProFil FR6500R, Gaco 052N, GacoOnePass F1850, GacoOnePass Low GWP F1880, and Gaco WallFoam 180M.

13B. **Foamed Plastic* —** (Optional, Not Shown - For use with Item 4T) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
**CARLISLE SPRAY FOAM INSULATION** — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

14. **Foamed Plastic* —** (Optional, Not Shown - For use over Gypsum Board, Item 4) - Polyisocyanurate foamed plastic boards, any thickness applied vertically with vertical joints located over studs. May be used with Molded Plastic, Item 5 or any exterior facing, as authorized by the Authority Having Jurisdiction and installed in accordance with the manufacturer's installation instructions.
**HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC** — "Xci Class A", "Xci 286", "Xci Foil (Class A)", "Xci CG", "Xci Foil", "Xci CG NH", "Xci Foil NH"

15. **Building Units* —** (Optional, Not Shown - For use over Gypsum Board, Item 4) Polyisocyanurate composite foamed plastic boards, any thickness, applied vertically with vertical joints located over studs. May be used with Molded Plastic, Item 5 or any exterior facing, as authorized by the Authority Having Jurisdiction and installed in accordance with the manufacturer's installation instructions.
**HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC** — "Xci NB", "Xci Ply"

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2022-02-14

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JMSA ARCHITECTURE

**Jerome M. Scott Architects**
1020 Goodale Blvd
Columbus, Ohio
43212

STATE OF OHIO
DANIEL BOYNE
12158692
Exp. 12/31/2023
REGISTERED ARCHITECT

DOT-200023
ODOT - EATON OUTPOST

5656 US-127 Eaton, Ohio 45320

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| 3 | 3/11/2022 | REVISION 3 |
| 2 | 3/11/2022 | REVISION 2 / CONFORMED SET |
| 1 | 12/17/2021 | REVISION 1 PERMIT / BID SET |
| - | 12/10/2021 | BID SET |
| - | 11/12/2021 | PERMIT

## GENERAL

1. THESE NOTES ARE GENERAL REQUIREMENTS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREINAFTER FOR USE ON THIS PROJECT.
3. IF MATERIALS, QUANTITIES, STRENGTHS OR SIZES INDICATED BY THE DRAWINGS OR SPECIFICATIONS ARE NOT IN AGREEMENT WITH THESE NOTES, THE CONTRACTOR SHALL CONTACT THE ARCHITECT/ENGINEER FOR CLARIFICATION.
4. TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON THE PLANS, BUT APPLY UNLESS NOTED OTHERWISE.
5. SHOP DRAWINGS PREPARED BY SUPPLIERS AND SUBCONTRACTORS SHALL BE REVIEWED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMISSION TO THE ENGINEER/ARCHITECT.
6. SHOP DRAWINGS PREPARED BY THE CONTRACTORS, SUPPLIERS, ETC., WILL BE REVIEWED BY THE ENGINEER/ARCHITECT ONLY FOR CONFORMANCE WITH DESIGN CONCEPT. NO WORK AFFECTED BY THE SHOP DRAWINGS SHALL BE STARTED WITHOUT SUCH REVIEW.
7. THE GENERAL CONTRACTOR SHALL COORDINATE ALL REVISIONS, CORRECTIONS, AND COMMENTS INDICATED ON THE SHOP DRAWINGS BY THE ARCHITECT/ENGINEER.
8. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR AND SHALL CONFORM TO THOSE SHOWN ON THE ARCHITECTURAL DRAWINGS.
9. THE STRUCTURAL CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES.
10. ANY SUPPORT SERVICES PERFORMED BY THE ENGINEER DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ENGINEER ARE SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. THEY DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
11. ALL STRUCTURES ARE DESIGNED TO BE STABLE AND SELF-SUPPORTING AT THE COMPLETION OF CONSTRUCTION. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE STABILITY AND SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS, AND THE ADEQUACY OF TEMPORARY OR INCOMPLETE CONNECTIONS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL IS NOT INDICATED ON THE DRAWINGS AND, IF PROVIDED, SHALL BE REMOVED, AS CONDITIONS PERMIT AND REMAIN THE PROPERTY OF THE CONTRACTOR.
12. ALL MATERIALS AND EQUIPMENT FURNISHED WILL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
14. COORDINATE WITH THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR MISCELLANEOUS STEEL ITEMS, LINTELS, METAL PAN STAIRS, SIZE AND LOCATION OF FLOOR SLOPES, DEPRESSED AREAS, FINISH FILLS, CHAMFERS, GROOVES, RAILING SLEEVES, ROOF EDGES, INSERTS, ETC.
15. COORDINATE WITH CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS FOR PIPE SLEEVES, FLOOR DRAINS, ROOF DRAINS, INSERTS, HANGERS, TRENCHES, PITS, WALL AND SLAB OPENINGS, CONDUIT RUNS IN WALLS AND SLABS, SIZE AND LOCATION OF MACHINE OR EQUIPMENT SUPPORTS, BASE AND ANCHOR BOLTS, RAILING, ETC.
16. COORDINATE WITH SITE, ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND CIVIL DRAWINGS FOR RETAINING WALLS, PADS, PAVEMENT AND OTHER SITE STRUCTURES.
17. EARTHWORK, FOUNDATION DRAINS, WATERPROFING, PERIMETER INSULATION, MASONRY AND OTHER REQUIRED NON-STRUCTURAL ITEMS ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE WITH CIVIL/SITE AND ARCHITECTURAL DRAWINGS.
18. THIS BUILDING QUALIFIES AS A THRESHOLD BUILDING. SEE THRESHOLD PLAN FOR INSPECTION REQUIREMENTS.

## GOVERNING CODES AND SPECIFICATIONS

| | |
|---|---|
| OBC | -OHIO BUILDING CODE, 2017 EDITION |
| ASCE 7 | -MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, 2010 EDITION |
| ACI 318 | -BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, 2014 EDITION |
| ACI 301 | -SPECIFICATIONS FOR STRUCTURAL CONCRETE, 2010 EDITION |
| ACI 305R | -HOT WEATHER CONCRETING, 2010 EDITION |
| ACI 306R | -COLD WEATHER CONCRETING, 2010 EDITION |
| ACI SP-66 | -ACI DETAILING MANUAL, 2004 |
| AWC NDS | -NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION WITH 2012 SUPPLEMENT, 2015 EDITION |
| AWC SDPWS | -SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC, 2015 EDITION |
| APA PDS | -PANEL DESIGN SPECIFICATION, 2012 EDITION |

## DESIGN LOADS

1. LIVE LOADS: (REDUCIBLE PER GOVERNING CODE)

| | UNIFORM (PSF) | CONCENTRATED (LBS) |
|---|---|---|
| a. ROOF | 20 | 300 |
| b. FIRST FLOOR OFFICE (SLAB ON GRADE) | 100 | 2,000 |
| c. FIRST FLOOR TRUCK STORAGE, MAINTENANCE (SLAB ON GRADE) | 250 | 150% VEHICLE WT |

2. SNOW LOADS:
   a. GROUND SNOW LOAD, $P_g$ . . . . . 20 PSF
   b. SLOPED ROOF SNOW LOAD, $P_s$ . . . . . 14 PSF
   c. SNOW EXPOSURE FACTOR, $C_e$ . . . . . 1.0
   d. SNOW LOAD IMPORTANCE FACTOR, $I_s$ . . . . . 1.0
   e. THERMAL FACTOR, $C_t$ . . . . . 1.0
3. WIND LOADS:
   a. ULTIMATE DESIGN WIND SPEED (3-SECOND GUST), MPH . . . . . 115
   b. NOMINAL DESIGN WIND SPEED (3-SECOND GUST), MPH . . . . . 90
   c. RISK CATEGORY . . . . . II
   d. WIND EXPOSURE . . . . . C
   e. DESIGN WIND PRESSURE FOR COMPONENTS AND CLADDING SHALL BE COMPUTED PER GOVERNING BUILDING CODE USING EXPOSURE . . . . . C (SEE DIAGRAM ON SHEET S-002)
   f. INTERNAL PRESSURE COEFFICIENT (ENCLOSED) . . . . . +/- 0.18
4. EARTHQUAKE DESIGN DATA:
   a. OCCUPANCY RISK CATEGORY . . . . . II
   b. SEISMIC IMPORTANCE FACTOR, $I_e$ . . . . . 1.0
   c. MAPPED SPECTRAL RESPONSE ACCELERATIONS . . . . . $S_S$ = 0.152, $S_1$ = 0.074
   d. SITE CLASS . . . . . D
   e. DESIGN SPECTRAL RESPONSE ACCELERATIONS . . . . . $S_{DS}$ = 0.162, $S_{D1}$ = 0.118
   f. SEISMIC DESIGN CATEGORY. . . . . B
   g. BASIC SEISMIC REINFORCING SYSTEM . . . . . LIGHT FRAME WALLS WITH SHEAR PANELS OF OTHER MATERIALS
   h. DESIGN BASE SHEAR . . . . . V = 18.6 KIPS
   i. SEISMIC RESPONSE COEFFICIENT. . . . . $C_S$ = 0.081
   j. RESPONSE MODIFICATION COEFFICIENT . . . . . R = 2.0
   k. ANALYSIS PROCEDURE USED . . . . . EQUIVALENT LATERAL FORCE

## FOUNDATIONS

1. FOUNDATION DESIGN IS BASED ON RECOMMENDATIONS IN THE GEOTECHNICAL REPORT NO. W-21-116 , PREPARED BY RESOURCE INTERNATIONAL, INC, DATED SEPTEMBER 14 2021. CONTRACTOR SHALL REVIEW GEOTECHNICAL REPORT PRIOR TO CONSTRUCTION.
2. FOUNDATIONS ARE DESIGNED TO BEAR ON UNDISTURBED NATURAL SOILS OR PROPERLY COMPACTED ENGINEERED FILL WITH A NET ALLOWABLE BEARING CAPACITY OF 3000 PSF . (SEE GEOTECHNICAL REPORT.)
3. TOPSOIL, FILL, AND/OR OTHER DELETERIOUS MATERIALS ENCOUNTERED DURING THE SITE PREPARATION MUST BE REMOVED AND REPLACED WITH SELECT ENGINEERED FILL COMPACTED TO 90% PER ASTM D1557 AND MEETING THE SPECIFIED DESIGN BEARING CAPACITY. (SEE GEOTECH REPORT FOR MORE INFORMATION).
4. OWNER SHALL EMPLOY A SOILS TESTING LABORATORY APPROVED BY THE ENGINEER TO PERFORM TESTING SERVICES AS REQUIRED BY THE SPECIFICATIONS AND TO INSPECT ALL BEARING SURFACES OF SLABS AND FOUNDATIONS.
5. NOTIFY ENGINEER IF FOUNDATION CONDITIONS ENCOUNTERED DIFFER FROM SOILS EXPLORATION INFORMATION MADE AVAILABLE TO THE CONTRACTOR.
6. REMOVE ALL EXISTING PAVEMENT, STRUCTURES AND FOUNDATIONS, AND TOPSOIL, UNSUITABLE FILLS AND ORGANIC SOILS ENCOUNTERED WITHIN AND BELOW THE AREA TO BE OCCUPIED BY SLABS ON GRADE AND FOUNDATIONS. THESE MATERIALS SHALL NOT BE USED FOR FILL WITHIN OR ADJACENT TO THE BUILDING.
7. CHANGES IN ELEVATION OF WALL FOOTING SHALL BE MADE IN STEPS NOT MORE THAN 2'-0" HIGH AND AT LEAST 4'-0" APART, UNLESS DETAILED OTHERWISE. SEE TYPICAL FOOTING STEP DETAIL.
8. THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL PROVIDE TEMPORARY SHORING, BRACING, UNDERPINNING, AND OTHER MEASURES NECESSARY TO INSURE STABILITY AND SAFETY DURING ERECTION AND CONSTRUCTION AND TO PREVENT MOVEMENT OF SOIL THAT COULD DAMAGE EXISTING STRUCTURES, PAVEMENT, UTILITIES, ETC.
9. AFTER EXCAVATING FOR SLABS ON GRADE, THE EXPOSED NATURAL SOIL SHALL BE THOROUGHLY COMPACTED PRIOR TO PLACING THE GRANULAR MATERIAL.
10. CENTER FOOTINGS UNDER COLUMNS, PIERS, AND WALLS UNLESS NOTED.
11. THE DIFFERENCE IN ELEVATION OF THE BACKFILL ON THE INSIDE AND OUTSIDE OF WALLS SHALL NOT EXCEED TWO FEET UNTIL THE FIRST FLOOR STRUCTURE SUPPORTING THE WALLS IS IN PLACE, UNLESS THE WALL IS BRACED TO PREVENT MOVEMENT.
12. UNLESS NOTED OTHERWISE ON THE CIVIL/SITE DRAWINGS, PROVIDE A MINIMUM 2% GRADE WITHIN 10-FEET OF THE PERIMETER OF THE FOUNDATION SYSTEM TO ALLOW SURFACE WATER TO DRAIN AWAY.
13. DO NOT PLACE FILL OR CONCRETE ON FROZEN GROUND.

## CAST-IN-PLACE CONCRETE AND REINFORCEMENT

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318.
2. CONCRETE SHALL HAVE THE FOLLOWING 28-DAY COMPRESSIVE STRENGTHS:
   CAST-IN-PLACE CONCRETE . . . . . 4,000 PSI
   FILL CONCRETE . . . . . 1,500 PSI
3. USE 6% ± 2%, ENTRAINED AIR PER ASTM C260 FOR ALL CONCRETE EXPOSED TO WEATHER.
4. WATER CEMENT RATIO SHALL BE AS FOLLOWS:
   ALL INTERIOR SLABS-ON-GRADE . . . . . .0.45 (MAX)
   CONCRETE WITH ENTRAINED AIR . . . . . .0.45 (MAX)
   CONCRETE WITHOUT ENTRAINED AIR . . .0.48 (MAX)
5. ALL REINFORCING STEEL, INCLUDING THAT ATTACHED TO EMBEDS, SHALL CONFORM TO ASTM A615 GRADE 60 AND SHALL BE EPOXY COATED.
6. ALL WELDED WIRE REINFORCING SHALL CONFORM TO ASTM A1064 PROVIDED IN FLAT SHEETS AND SHALL BE EPOXY COATED.
7. ADMIXTURES SHALL CONTAIN NO MORE THAN 0.05% CHLORIDE IONS BY WEIGHT OF CEMENT WHEN TESTED IN ACCORDANCE WITH AASHTO T260.
8. CONTRACTOR SHALL KEEP A COPY OF "FIELD REFERENCE MANUAL: STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE ACI 301 WITH SELECTED ACI REFERENCES", (ACI PUBLICATION SP-15) AT THE PROJECT FIELD OFFICE.
9. ALL REINFORCING DETAILS SHALL CONFORM TO "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" ACI 315, UNLESS DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS.
10. SUBMIT FOR APPROVAL CONCRETE MIX DESIGN AND CERTIFICATION OF CONFORMITY OF CONCRETE MATERIALS.
11. THE ARCHITECT SHALL EMPLOY A TESTING LABORATORY TO PERFORM THE TESTING SPECIFIED PER PARAGRAPH 1.6.4 OF ACI 301. THE TESTING LABORATORY SHALL MEET THE REQUIREMENTS OF ASTM E329. TESTING SHALL BE MADE BY AN ACI CONCRETE FIELD TESTING TECHNICIAN GRADE 1 OR APPROVED EQUIVALENT. A TECHNICIAN GRADE 1 SHALL BE PRESENT DURING ALL CONCRETE PLACEMENT.
12. SUBMIT SHOP DRAWINGS FOR REVIEW. THESE DRAWINGS SHALL SHOW ALL CONCRETE MEMBER DIMENSIONS AND REINFORCING FOR WALLS.
13. PROVIDE DOWELS FROM FOUNDATIONS TO MATCH WALL VERTICAL REINFORCING. WHERE SHOWN, PROVIDE DOWELS OUT OF WALLS TO MATCH SLAB REINFORCING.
14. PROVIDE CLASS "B" TENSION LAP SPLICE OR FULL MECHANICAL SPLICE (ACI 318, SECT. 12.14.3) FOR ALL VERTICAL STEEL IN WALLS AND SLABS. SEE LAP SCHEDULE ON SHEET S-002 FOR LAP LENGTHS, U.N.O.
15. PROVIDE ADEQUATE BOLSTERS, HI-CHAIRS, SUPPORT BARS, ETC., TO MAINTAIN SPECIFIED CLEARANCES FOR THE ENTIRE LENGTH OF ALL REINFORCING BARS. SUPPORTS THAT BEAR DIRECTLY ON EXPOSED SURFACES SHALL BE STAINLESS STEEL.
16. ALL SLABS AND WALLS SHALL BE POURED MONOLITHICALLY, EXCEPT FOR THE REQUIRED CONSTRUCTION JOINTS.
17. PROVIDE PERIMETER INSULATION AGAINST EXTERIOR FOUNDATION WALLS AND UNDER THE SLAB ADJACENT TO THE EXTERIOR OF THE BUILDING AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
18. PROVIDE 3/4-INCH CHAMFER ON ALL EXPOSED CORNERS OF SLABS AND WALLS UNLESS OTHERWISE INDICATED ON THE ARCHITECTURAL DRAWINGS. MINIMUM CLEARANCES FOR REINFORCING STEEL SHALL BE MAINTAINED.
19. CURE ALL CONCRETE FOR A MINIMUM 7-DAYS. APPLY CURING COMPOUND AT THE MAXIMUM COVERAGE RATE OF 300 SQUARE FEET PER GALLON. USE PRODUCT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SEE SPECIFICATIONS.
20. WATERSTOP FOR CONSTRUCTION JOINTS SHALL BE PVC SERRATED TYPE WITHOUT CENTER BULB, NOT LESS THAN 6" WIDTH AND 3/8" THICK; SELF-EXPANDING BUTYL STRIPS 3/4" BY 1"; SELF-EXPANDING RUBBER STRIPS 3/8" BY 3/4".
21. WATERSTOP FOR EXPANSION JOINTS SHALL BE PVC SERRATED TYPE, WITH CENTER BULB NOT LESS THAN 9" WIDTH AND 3/8" THICK; SELF-EXPANDING BUTYL STRIPS 3/4" BY 1"; SELF-EXPANDING RUBBER STRIPS 3/8" BY 3/4".
22. ALL WATERSTOPS SHALL BE PROPERLY SUPPORTED AND WIRED TO REINFORCING TO REMAIN STRAIGHT AND TRUE. HEAT SPLICE ALL JOINTS PER MANUFACTURER'S RECOMMENDATIONS.
23. ALL CONSTRUCTION JOINTS SHALL BE KEYED. PROVIDE KEYWAYS AT MEMBER CENTERLINE WITH A DEPTH OF 1-1/2 INCH AND HEIGHT EQUAL TO ONE-THIRD OF THE MEMBER'S DEPTH/THICKNESS.
24. CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS OF CONSTRUCTION JOINTS NOT INDICATED ON THE DRAWINGS FOR REVIEW BY THE ENGINEER/ARCHITECT.
25. ALL ALUMINUM IN CONTACT WITH CONCRETE OR DISSIMILAR METALS SHALL BE COATED WITH GRAY EPOXY PRIMER, APPROVED BY THE ENGINEER.
26. FORMWORK, FOR ALL CONCRETE THAT WILL BE EXPOSED IN THE COMPLETED STRUCTURE, SHALL BE CONSTRUCTED FROM A METAL OR SUITABLE SURFACE PLYWOOD THAT WILL PRODUCE AN ACCEPTABLY SMOOTH SURFACE. SEE SPECIFICATIONS.
27. PITCH CONCRETE SLABS TO FLOOR DRAINS SHOWN ON MECHANICAL, PROCESS, OR ARCHITECTURAL DRAWINGS.
28. ALL HORIZONTAL AND VERTICAL PIPE SLEEVE OPENINGS THROUGH CONCRETE STEM WALLS SHALL BE FORMED WITH STANDARD STEEL PIPE.
29. CONCRETE PROTECTION (CLEAR COVER) FOR REINFORCEMENT BARS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
   a. FOOTINGS:
      - 3 INCHES, BOTTOM AND UNFORMED EDGES
      - 2 INCHES, FORMED EDGES
      - 2 INCHES, EXPOSED TO EARTH, WATER OR WEATHER
      - 2 INCHES, BOTTOM, ON CONCRETE MUDMAT
   b. WALLS:
      - 2 INCHES TO REINFORCEMENT
   c. PIERS
      - 1 1/2 INCHES TO TIES
      - 2 INCHES TO VERT REINFORCING.
30. LAP SPLICE WELDED WIRE FABRIC ONE SPACE PLUS 6 INCHES AT EDGES AND ENDS AND PROVIDE ADDITIONAL REINFORCING WHERE SHOWN ON DRAWINGS. PLACE MESH 2 INCHES FROM TOP OF SLAB FOR SLABS ON GROUND AND 1 INCH FROM TOP OF SUPPORTED SLABS UNLESS NOTED OTHERWISE.
31. ALL HOOKS SHALL BE ACI STANDARD HOOKS UNLESS DIMENSIONED OTHERWISE.

## WOOD

1. WOOD DESIGN, SPECIFICATIONS AND ERECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION."
2. WOOD SHALL COMPLY WITH THE LATEST EDITION OF THE GRADING RULES OF THE SOUTHERN PINE PRODUCTS ASSOCIATION OR THE SOUTHERN PINE INSPECTION BUREAU.
3. ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED GRADING AGENCY.
4. SAWN LUMBER SHALL HAVE THE FOLLOWING MINIMUM GRADE UNLESS NOTED OTHERWISE:

| MEMBER SIZE | Fb (PSI) | Fv (PSI) | E (PSI) | Fc (PSI) | WOOD GRADE |
|---|---|---|---|---|---|
| 2x & 4x | 775 | 135 | 1,100,000 | 1000 | SPF NO. 2 |
| BEAM WIDTH > 4" | 600 | 125 | 1,000,000 | 425 | SPF NO. 2 |
| POST WIDTH > 4" | 500 | 125 | 1,000,000 | 500 | SPF NO. 2 |

5. ALL STUDS SHALL BE CONSTRUCTED CONTINUOUS FROM SILL TO TOP PLATE UNLESS NOTED OTHERWISE.
6. ALL 2x BEARING WALLS AND SHEAR WALLS SHALL BE BLOCKED HORIZONTALLY AT 4'-0" O.C. VERT. SPACING FOR ALL WALLS GREATER THAN 9'-0" IN HEIGHT.
7. ENGINEERED LUMBER PRODUCTS SHALL BE LAMINATED VENEER LUMBER (LVL), WITH THE FOLLOWING MINIMUM PROPERTIES: E = 2.0 x $1.0^6$ PSI $F_b$ = 2,900 PSI $F_v$ = 285 PSI
8. ALL PLYWOOD SHALL BE APA RATED SHEATHING CONFORMING TO STANDARD PS 1-08 WITH THE FOLLOWING NOMINAL THICKNESS AND SPAN/INDEX RATIO UNLESS NOTED OTHERWISE:

| SHEATHING LOCALE | THICKNESS | SPAN/INDEX RATIO |
|---|---|---|
| ROOF | 5/8" | 40/20 |
| SHEAR WALL | 5/8" | 40/20 |

9. PLYWOOD SHALL BE PLACED WITH FACE GRAIN PERPENDICULAR TO SUPPORTS USING A MINIMUM 5-PLY PLYWOOD. PLYWOOD JOINTS SHALL BE STAGGERED.
10. PLYWOOD SHALL BE ATTACHED USING COMMON NAILS. NAILING PATTERN SHALL BE AS NOTED ON DIAPHRAGM SHEATHING SCHEDULE AND SHEAR WALL SCHEDULE. ATTACHMENT OF PLYWOOD USING WOOD SCREWS IS NOT PERMITTED WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER.
11. CONTRACTOR SHALL PROVIDE GALVANIZED PLYWOOD CLIPS AT MID-SPAN OF ROOF SHEATHING BETWEEN EACH ROOF TRUSS/JOIST.
12. ALL SILL PLATES RESTING ON CONCRETE OR MASONRY SHALL BE NATURALLY DURABLE (SPECIES FOR BOTH DECAY AND TERMITE RESISTANCE) OR PRESERVATIVE TREATED USING WATER-BORNE PERSERVATIVES IN ACCORDANCE WITH AWPA U1.
13. ALL BOLTS IN WOOD FRAMING SHALL CONFORM TO ASTM A307 AND BE INSTALLED WITH STEEL FLAT WASHERS CONFORMING TO ASTM F436.
14. CONNECTION HARDWARE AND FASTENERS SHALL BE GALVANIZED STEEL, MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS BY SIMPSON STRONG-TIE COMPANY INC. (BASIS OF DESIGN), MITEK INC., TAMLYN, OR AN APPROVED EQUAL. DO NOT OVERLAP CONNECTORS.
15. A MINIMUM 16-GAGE STRAP EXTENDING 3" BEYOND PLATE WIDTH AND ATTACHED WITH 8-16d NAILS AT EACH END SHALL BE PROVIDED WHERE TOP PLATES, SILL PLATES OR STUDS ARE CUT FOR MECHANICAL, ELECTRICAL OR PLUMBING PENETRATIONS.
16. PROVIDE A MINIMUM OF 3 STUDS AT EACH CORNER OF EXTERIOR WALLS.

## PREFABRICATED WOOD TRUSSES

1. FABRICATOR SHALL BE AN "APPROVED FABRICATOR" IN ACCORDANCE WITH IBC SECTION 1704.2.2, REGISTERED AND APPROVED BY THE LOCAL BUILDING DEPARTMENT.
2. DESIGN WOOD ROOF TRUSSES FOR THE FOLLOWING SUPERIMPOSED DESIGN LOADS. DEAD LOAD DOES NOT INCLUDE THE SELF-WEIGHT OF THE TRUSSES.

| | | | |
|---|---|---|---|
| TOP CHORD: | DEAD LOAD | = | 10 PSF |
| | LIVE LOAD | = | 20 PSF |
| | WIND LOAD | = | SEE WIND DIAGRAM ON SHEET S-002. |
| BOTTOM CHORD: | DEAD LOAD | = | 10 PSF |
| | LIVE LOAD | = | 10 PSF |

3. THE PROVIDED DESIGN LOADING SHALL BE APPLIED TO THE TRUSS IN ACCORDANCE WITH THE GOVERNING BUILDING CODE.
4. WOOD TRUSS MANUFACTURER SHALL SUPPLY SHOP DRAWINGS AND CALCULATIONS FOR THE WOOD TRUSSES INDICATING THE FOLLOWING INFORMATION FOR APPROVAL:
   a. TRUSS CONFIGURATION INCLUDING SPAN, PITCH AND SPACING OF PANEL POINTS.
   b. SPECIES, GRADE AND NOMINAL SIZE OF LUMBER USED.
   c. TRUSS CALCULATIONS SHALL INCLUDE, BUT NOT LIMITED TO DESIGN LOADS USED; PANEL POINT LOADS; TRUSS END REACTIONS; MEMBER AXIAL AND FLEXURAL FORCES, STRESSES AND COMBINED LOADING DESIGN; JOINT AND SPLICE CONNECTION DESIGN.
   d. JOINT AND SPLICE CONNECTION DESIGN SHALL INCLUDE TEST DATA VERIFYING LATERAL LOAD CAPACITY OF PLATES. METAL PLATES SHALL MEET THE REQUIREMENTS OF THE TRUSS PLATE INSTITUTE, ANSI/TPI 1, "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION."
   e. CALCULATIONS AND DRAWINGS SHALL BEAR THE STAMP OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT.
5. DEFLECTION FOR WOOD TRUSSES SHALL BE LIMITED TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   ROOF TRUSSES: VERTICAL DEFLECTION SHALL NOT EXCEED L/240 FOR 1.5 TIMES DEAD LOAD PLUS LIVE LOAD AND L/360 FOR LIVE LOAD. LIMIT MAXIMUM VERTICAL DEFLECTION TO 2".
   HORIZONTAL DEFLECTION SHALL NOT EXCEED 0.75 INCHES FOR LIVE LOAD AND 1.25 INCHES FOR TOTAL LOAD.
6. WOOD SHALL COMPLY WITH THE LATEST EDITION OF THE GRADING RULES OF THE SOUTHERN PINE PRODUCTS ASSOCIATION OR SOUTHERN PINE INSPECTION BUREAU.
7. ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED GRADING AGENCY.

## POST-INSTALLED FASTENERS

1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS.
2. INSTALL BOLTS AND FASTENERS TO MISS REINFORCING.
3. PRIOR TO DRILLING FOR THE ANCHOR CONCRETE REINFORCING STEEL SHALL BE LOCATED WITH A MAGNETIC BAR LOCATOR.
4. FASTENERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND AS GIVEN BELOW. NOTIFY THE ENGINEER IF CONFLICTS EXIST BETWEEN THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND THE BELOW REQUIREMENTS.
5. FASTENERS SHALL BE INSTALLED AT NOT LESS THAN THE MANUFACTURER'S MINIMUM EDGE DISTANCES AND/OR SPACINGS INDICATED IN THE MANUFACTURER'S LITERATURE, UNLESS INDICATED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER OF RECORD.
6. DRILL HOLES USING ROTARY PERCUSSION DRILL WITH A DEPTH GAGE. DO NOT DRILL THROUGH FULL THICKNESS OF CONCRETE. CLEAN HOLES BY VIGOROUSLY BRUSHING AND THEN BLOW OUT LOOSE MATERIAL USING OIL-FREE COMPRESSED AIR. THE BRUSH SHALL HAVE THE STIFF NON-METALLIC BRISTLES OF TYPE AND DIAMETER RECOMMENDED BY THE ADHESIVE MANUFACTURER. IF CONCRETE IS DAMP BLOW DRY HOLE WITH OIL-FREE COMPRESSED AIR. CLEAN WITH WATER ONLY IF RECOMMENDED BY MANUFACTURER. ADHESIVE ANCHORS MAY NOT BE SET IF WATER IS SEEPING INTO HOLE; NOTIFY THE ENGINEER.
7. FOR EXPANSION ANCHORS: DRILL HOLE TO NOMINAL DIAMETER OF ANCHOR. IF METRIC ANCHORS ARE USED, METRIC BITS MUST BE USED. INSTALL ANCHOR AND TIGHTEN TO RECOMMENDED TORQUE.
8. EXPANSION BOLTS IN CONCRETE SHALL BE "KWIK BOLT 3" BY HILTI, "WEDGE-ALL" BY SIMPSON STRONG TIE OR APPROVED EQUAL.
9. ADHESIVE DOWELS AND ANCHORS IN CONCRETE SHALL BE OF THE TYPE SHOWN AND INSTALLED USING "HIT-HY 200" BY HILTI, "SET" BY SIMPSON STRONG TIE OR APPROVED EQUAL.
10. CONTRACTOR SHALL SUBMIT MANUFACTURERS LITERATURE FOR THE ANCHOR SYSTEM TO BE USED. THIS LITERATURE SHALL INCLUDE ANCHOR MATERIAL, STRENGTH DATA, EMBEDMENT LENGTH, DRILL BIT SIZE AND THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. FOR ADHESIVE ANCHORS INCLUDE ADHESIVE CHEMISTRY.

## SPECIAL INSPECTIONS

PER THE IBC SECTION 1704, SPECIAL INSPECTIONS ARE REQUIRED FOR THE FOLLOWING ITEMS:

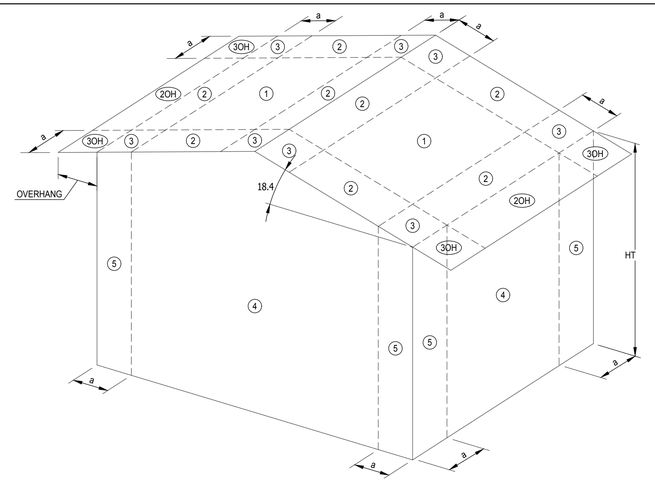
1. CONCRETE:
   a. INSPECTION OF REINFORCING STEEL AND PLACEMENT. (PERIODIC)
   b. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE. (CONTINUOUS)
   c. VERIFYING USE OF REQUIRED MIX DESIGN. (PERIODIC)
   d. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. (CONTINUOUS)
   e. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES. (CONTINUOUS)
   f. INSPECTION OF SPECIFIED CURING AND TEMPERATURE AND TECHNIQUES. (PERIODIC)
   g. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS. (PERIODIC)
   h. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. (PERIODIC)
   i. NO INSPECTION IS REQUIRED FOR SLABS ON GRADE.
2. GEOTECHNICAL:
   a. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. (PERIODIC)
   b. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. (PERIODIC)
   c. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS. (PERIODIC)
   d. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL. (CONTINUOUS)
   e. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT THE SITE HAS BEEN PROPERLY PREPARED. (PERIODIC)
3. EXPANSION AND EPOXY ADHESIVE ANCHORS:
   a. RECORD PRODUCT DESCRIPTION INCLUDING THE ADHESIVE PRODUCT NAME AND EXPIRATION DATE, ADHESIVE MIXING PROCEDURE AND USE OF PROPER NOZZLES FOR ALL CARTRIDGES. (PERIODIC)
   b. VERIFY ANCHOR OR REINFORCEMENT BAR MATERIAL, GRADE, DIAMETER, LENGTH, AND CLEANLINESS. (PERIODIC)
   c. VERIFY DRILL BIT DIAMETER, INCLUDING VERIFICATION OF DIAMOND-CORE AND CARBIDE-TIPPED DRILL BIT COMPLIANCE WITH ANSI B212.15. (PERIODIC)
   d. VERIFY DEPTH AND CLEANLINESS OF HOLES. (PERIODIC)
   e. VERIFY CONCRETE COMPRESSIVE STRENGTH BY ASTM C42 METHODS. (PERIODIC)
   f. VERIFY PHYSICAL PROPERTIES OF THE CONCRETE MASONRY WALL CONSTRUCTION COMPONENTS. (PERIODIC)
   g. VERIFY SUBSTRATE TEMPERATURE AT TIME OF ANCHOR INSTALLATION. (PERIODIC)
   h. VERIFY ACTUAL GEL TIME

**STRUCTURAL DRAWING ABBREVIATIONS**

| | |
|---|---|
| ADDL | ADDITIONAL |
| ADJ | ADJACENT |
| AESS | ARCH EXPOSED STRUCTURAL STEEL |
| ALT | ALTERNATE |
| & | AND |
| APPROX | APPROXIMATELY |
| ARCH | ARCHITECT or ARCHITECTURAL |
| @ | AT or SPACING |
| | |
| B/ | BOTTOM OF |
| BL | BUILDING LINE |
| BLDG | BUILDING |
| BLKG | BLOCKING |
| BM | BEAM |
| BRDG | BRIDGING |
| BRG | BEARING |
| BTWN | BETWEEN |
| BOT | BOTTOM |
| | |
| CANT | CANTILEVER |
| CL | CENTERLINE |
| CLR | CLEAR |
| CTR | CENTER |
| COL | COLUMN |
| CONC | CONCRETE |
| CONN | CONNECTION |
| CONST | CONSTRUCTION |
| CONT | CONTINUOUS |
| CJ | CONTROL/CONSTRUCTION JOINT |
| CMU | CONCRETE MASONRY UNIT |
| CONT | CONTINUOUS |
| CUFT | CUBIC FEET |
| CY | CUBIC YARDS |
| | |
| DBL | DOUBLE |
| DEG or ° | DEGREE |
| DEMO | DEMOLITION |
| DET | DETAIL |
| DF | DOUGLAS FIR LARCH |
| DIAG | DIAGONAL |
| DIA or ø | DIAMETER |
| DIM | DIMENSION |
| DO | DITTO |
| DN | DOWN |
| DP | DEEP |
| DWG | DRAWING |
| DWL | DOWEL |
| | |
| EA | EACH |
| EF | EACH FACE |
| EJ | EXPANSION JOINT |
| EL | ELEVATION |
| ELEC | ELECTRICAL |
| EMBED | EMBEDDED, EMBEDMENT |
| EQ | EQUAL |
| EQUIP | EQUIPMENT |
| ES | EACH SIDE |
| EW | EACH WAY |
| EXIST | EXISTING |
| EXP | EXPANSION |
| EXT | EXTERIOR |
| | |
| FAB | FABRICATE |
| FDN | FOUNDATION |
| FIN | FINISH |
| FLG | FLANGE |
| FLR | FLOOR |
| FS | FARSIDE |
| FT | FOOT, FEET |
| FTG | FOOTING |
| | |
| GA | GAGE |
| GAL | GALLON |
| GALV | GALVANIZED |
| GC | GENERAL CONTRACTOR |
| GEN | GENERAL |
| GLB | GLUE LAMINATED BEAM |
| GR | GRADE |
| GYP BD | GYPSUM BOARD |
| | |
| HC | HOLLOW CORE |
| HORIZ | HORIZONTAL |
| HS | HIGH STRENGTH |
| HT | HEIGHT |
| HVY | HEAVY |
| | |
| ID | INSIDE DIAMETER |
| IF | INSIDE FACE |
| IN | INCH |
| INFO | INFORMATION |
| INT | INTERIOR |
| INV | INVERT |
| | |
| JST | JOIST |
| JT | JOINT |
| | |
| K | KIPS |
| KSF | KIPS PER SQUARE FOOT |
| KSI | KIPS PER SQUARE INCH |

| | |
|---|---|
| L | ANGLE |
| LBS | POUNDS |
| LF | LINEAL FEET |
| LG | LONG |
| LL | LIVE LOAD |
| LLH | LONG LEG HORIZONTAL |
| LLV | LONG LEG VERTICAL |
| LOC | LOCATION |
| LONG | LONGITUDINAL |
| LSH | LONG SIDE HORIZONTAL |
| LSV | LONG SIDE VERTICAL |
| LT WT | LIGHT WEIGHT |
| | |
| MANUF | MANUFACTURER |
| MAS | MASONRY |
| MATL | MATERIAL |
| MAX | MAXIMUM |
| MECH | MECHANICAL |
| MEZZ | MEZZANINE |
| MFR | MANUFACTURER |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| MK | MARK |
| MTL | METAL |
| | |
| NO. or # | NUMBER |
| NOM | NOMINAL |
| NS | NEARSIDE |
| NTS | NOT TO SCALE |
| | |
| OC | ON CENTER |
| OD | OUTSIDE DIAMETER |
| OF | OUTSIDE FACE |
| O/O | OUT TO OUT |
| OPNG | OPENING |
| OPP | OPPOSITE |
| | |
| PAF | POWDER ACTUATED FASTENERS |
| PAR | PARALLEL |
| PC | PRECAST |
| PERP | PERPENDICULAR |
| PL | PLATE |
| PLF | POUNDS PER LINEAL FOOT |
| PLYWD | PLY WOOD |
| PREFAB | PREFABRICATED |
| PSF | POUNDS PER SQUARE FOOT |
| PSI | POUNDS PER SQUARE INCH |
| PT | POST TENSIONED |
| PTR | PRESSURE TREATED |
| | |
| QL | SEISMIC LOAD |
| QTY | QUANTITY |
| | |
| RAD | RADIUS |
| REF | REFERENCE |
| REINF | REINFORCEMENT, REINFORCING, REINFORCED |
| REQD | REQUIRED |
| | |
| SCHED | SCHEDULE |
| SECT | SECTION |
| SF | SQUARE FOOT |
| SHT | SHEET |
| SIM | SIMILAR |
| SOG | SLAB-ON-GRADE |
| SPA | SPACING |
| SPEC(S) | SPECIFICATION(S) |
| SPF | SPRUCE PINE FIR |
| SQ | SQUARE |
| SS | STAINLESS STEEL |
| STD | STANDARD |
| STIFF | STIFFENER |
| STL | STEEL |
| STR | STRUCTURAL |
| STRUCT | STRUCTURAL |
| SUP | SUPPORT |
| SYM | SYMMETRICAL |
| SYP | SOUTHERN YELLOW PINE |
| | |
| T | TOP |
| T/ | TOP OF |
| T&B | TOP AND BOTTOM |
| T&G | TONGUE AND GROOVE |
| TEMP | TEMPERATURE STEEL |
| THD | THREAD |
| THK | THICK |
| THRU | THROUGH |
| TOL | TOLERANCE |
| TRANS | TRANSVERSE |
| TYP | TYPICAL |
| | |
| UN or UNO | UNLESS NOTED (OTHERWISE) |
| | |
| VERT | VERTICAL |
| VIF | VERIFY IN FIELD |
| | |
| W/ | WITH |
| W/O | WITHOUT |
| WD | WOOD |
| WP | WORKPOINT |
| WT | WEIGHT |
| WWF | WELDED WIRE FABRIC |

| LAP TABLE (f'c = 4,000 PSI, EPOXY-COATED) | | | |
|---|---|---|---|
| BAR SIZE | LAP CLASS | TOP BARS | OTHER BARS |
| #3 | A | 24 | 22 |
| | B | 32 | 28 |
| #4 | A | 33 | 29 |
| | B | 42 | 37 |
| #5 | A | 41 | 36 |
| | B | 53 | 47 |
| #6 | A | 49 | 43 |
| | B | 63 | 56 |
| #7 | A | 71 | 63 |
| | B | 92 | 81 |
| #8 | A | 81 | 71 |
| | B | 105 | 93 |
| #9 | A | 91 | 81 |
| | B | 119 | 105 |
| #10 | A | 103 | 91 |
| | B | 133 | 118 |
| #11 | A | 114 | 101 |
| | B | 148 | 131 |




SCHEMATIC ELEVATION

**WIND PRESSURE (ASCE 7-10) FOR COMPONENTS & CLADDING**

| EFFECTIVE AREA OF OPENING, A (S.F.) | ZONE 1 | | ZONE 2 | | | ZONE 3 | | | ZONE 4 | | ZONE 5 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PRESSURE (PSF) | SUCTION (PSF) | PRESSURE (PSF) | SUCTION (PSF) | OVERHANG (PSF) | PRESSURE (PSF) | SUCTION (PSF) | OVERHANG (PSF) | PRESSURE (PSF) | SUCTION (PSF) | PRESSURE (PSF) | SUCTION (PSF) |
| A ≤ 10 | 16.00 | -17.50 | 16.00 | -28.83 | -36.67 | 16.00 | -28.83 | -55.66 | 18.78 | -20.45 | 18.78 | -24.57 |
| 10 < A ≤ 20 | 16.00 | -16.84 | 16.00 | -25.51 | -36.67 | 16.00 | -25.51 | -47.70 | 17.61 | -19.28 | 17.61 | -22.22 |
| 20 < A ≤ 50 | 16.00 | -16.34 | 16.00 | -23.00 | -36.67 | 16.00 | -23.00 | -41.68 | 16.73 | -18.39 | 16.73 | -20.45 |
| 50 < A ≤ 100 | 16.00 | -16.34 | 16.00 | -23.00 | -36.67 | 16.00 | -23.00 | -41.68 | 16.00 | -17.51 | 16.00 | -18.68 |

NOTES:
1. VALUES LISTED IN THE ABOVE TABLE ARE BASED UPON AN ENCLOSED BUILDING USING THE SPECIFIED WIND LOADING AS INDICATED IN THE 'DESIGN LOADS' SECTION OF THE GENERAL NOTES.
2. PRESSURE (POSITIVE) AND SUCTION (NEGATIVE) VALUES SIGNIFY LOADING ACTING TOWARDS AND AWAY FROM THE BUILDING SURFACES, RESPECTIVELY (FULL HEIGHT, UNLESS NOTED.)
3. VALUES LISTED IN THE ABOVE TABLE ARE ALLOWABLE STRESS DESIGN WIND PRESSURES. TO OBTAIN ULTIMATE WIND VALUES, MULTIPLY THE VALUES SHOWN IN THE ABOVE TABLE BY 1.6.
4. EDGE STRIP "a" = 5'-0", UNLESS NOTED OTHERWISE.
5. #OH DENOTES OVERHANG WIND LOAD IN CORRESPONDING ZONE.
6. θ DENOTES ROOF SLOPE, SEE ROOF PLAN.


JMSA ARCHITECTURE

**Jerome M. Scott Architects**
1020 Goodale Blvd
Columbus, Ohio
43212

PAUL J. FORD & COMPANY
250 E Broad St, Ste 600 · Columbus, OH 43215
Phone 614.221.6679 www.pauljford.com
A80121-0003 Corp No 01921


STATE OF OHIO
JEFFREY E. McCUTCHEN
E-61727
REGISTERED
PROFESSIONAL ENGINEER
11/12/21

# DOT-200023
# ODOT - EATON OUTPOST

5656 US-127 Eaton, Ohio 45320

| MARK | DATE | DESCRIPTION |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| 3 | 03/11/22 | REVISION 3 |
| 2 | 03/11/22 | REVISION 2 / CONFORMED SET |
| 1 | 12/17/21 | REVISION 1 PERMIT/BID SET |
| - | 12/10/21 | BID SET |
| - | 11/12/21 | PERMIT SET |

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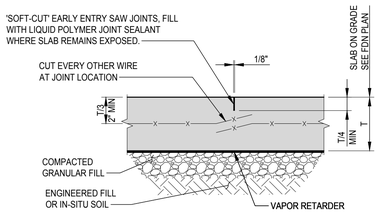
SHEET TITLE

GENERAL NOTES & TYPICAL DETAILS

S-002

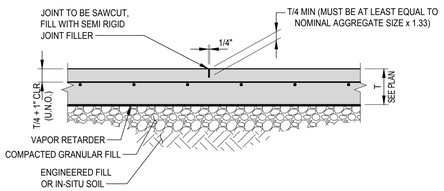



NOTES:
1. JOINTS TO BE LOCATED ON COLUMN CENTER LINES AND AT INTERMEDIATE LOCATIONS AS REQUIRED TO MAINTAIN A MAXIMUM SPACING OF (30 x SLAB THICKNESS) IN EACH DIRECTION, U.N.O.
2. PROVIDE TOOLED JOINTS IN FRESH CONCRETE EACH SIDE OF WALLS WHERE SLAB POURS THRU DOORWAYS.

## TYPICAL CONTROL JOINT DETAIL FOR SLABS LESS THAN 6" THICK

1 S-003

SCALE: NTS

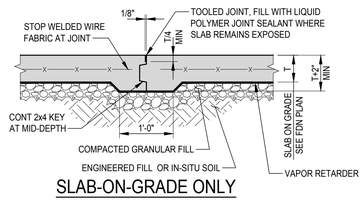



NOTE:
1. SAW CUT JOINT INTO SLAB AS SOON AS CONCRETE IS FIRM ENOUGH THAT THE CUTTING ACTION WILL NOT TEAR, ABRADE, OR OTHERWISE DAMAGE SURFACE AND BEFORE CONCRETE DEVELOPS RANDOM CONTRACTION CRACKS.

## TYPICAL CONTROL JOINT DETAIL FOR 6" - 12" SLABS

2 S-003

SCALE: NTS

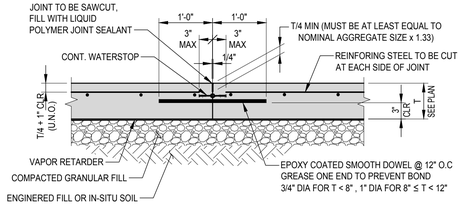



SLAB-ON-GRADE ONLY

## TYPICAL CONSTRUCTION JOINT DETAIL FOR SLABS LESS THAN 6" THICK

3 S-003

SCALE: NTS

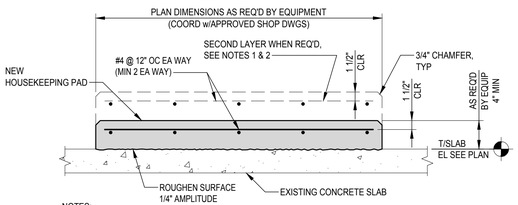



NOTE:
1. REINFORCING STEEL SHALL BE SUPPORTED INDEPENDENTLY FROM DOWELS.
2. SAW CUT JOINT INTO SLAB AS SOON AS CONCRETE IS FIRM ENOUGH THAT THE CUTTING ACTION WILL NOT TEAR, ABRADE, OR OTHERWISE DAMAGE SURFACE AND BEFORE CONCRETE DEVELOP RANDOM CONTRACTION CRACKS.
3. CONTRACTOR'S OPTION TO USE A DOWEL BASKET ASSEMBLY WITH LOAD PLATE IN LIEU OF A GREASED DOWEL.

## TYPICAL CONSTRUCTION JOINT DETAIL FOR 6" - 12" SLABS

4 S-003

SCALE: NTS

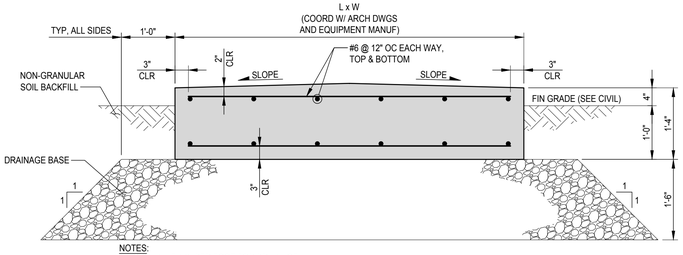



NOTES:
1. CONTRACTOR SHALL PROVIDE 2 LAYERS OF REINFORCING WHEN PAD THICKNESS EXCEEDS 8".
2. IF SECOND LAYER OF REINFORCING IS REQ'D. SPACING BETWEEN LAYERS SHALL NOT EXCEED 8".
3. SEE PLUMBING, MECH & ELECTRICAL DRAWINGS FOR SIZE, LOCATION & QUANTITY OF PADS.
4. COORDINATE SIZE, LOCATION & QUANTITY OF EQUIP ANCHOR BOLTS IF REQ'D, WITH APPROVED SHOP DWGS.

## TYPICAL HOUSEKEEPING PAD DETAIL

5 S-003

SCALE: NTS




NOTES:
1. CROWN AT 1/8" PER FOOT FOR DRAINAGE.
2. COORDINATE LENGTH (L) AND WIDTH (W) WITH EQUIPMENT MANUFACTURER.
3. USE NON-SHRINK GROUT TO SET EQUIPMENT.
4. CONNECTION OF EQUIPMENT TO PAD SHALL BE PER EQUIPMENT MANUFACTURER.
5. CONTRACTOR SHALL FIELD LOCATE REINFORCING STEEL PRIOR TO INSTALLING EPOXY OR EXPANSION ANCHORS. (SEE POST INSTALLED FASTENERS SECTIONS OF GENERAL NOTES FOR MORE INFO).

## TYPICAL EXTERIOR EQUIPMENT PAD DETAIL

6 S-003

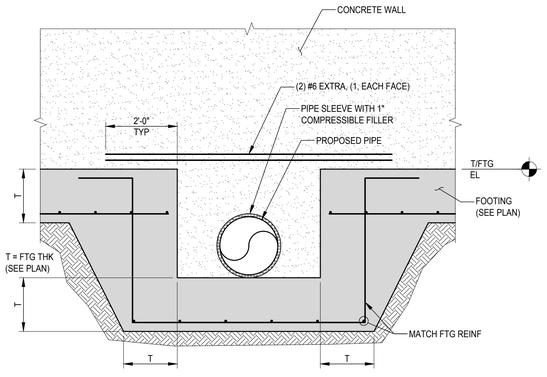
SCALE: NTS

PLAN VIEW

## TYPICAL FLOOR SLAB REINF. AT RE-ENTRANT CORNERS

7 S-003

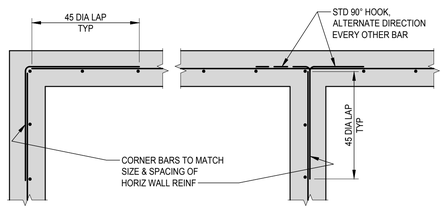
SCALE: NTS




## TYP. DEPRESSED FOOTING DETAIL @ WALL PENETRATIONS

8 S-003

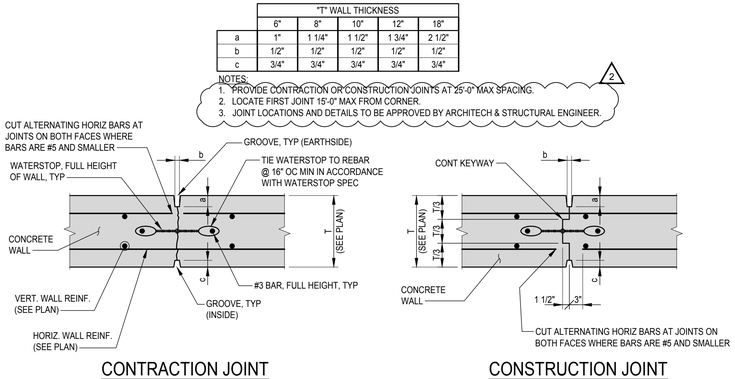
SCALE: NTS




## TYPICAL CONC WALL CORNER DETAIL SINGLE LAYER

9 S-003

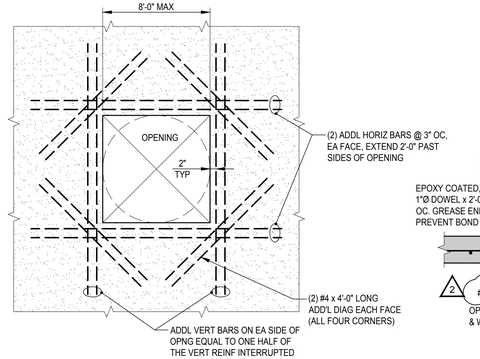
SCALE: NTS




## TYPICAL VERTICAL CONTRACTION AND CONSTRUCTION JOINTS IN CONCRETE WALL

10 S-003

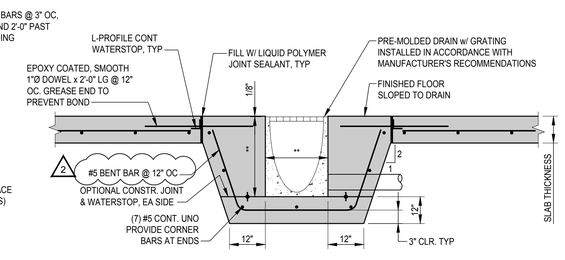
SCALE: NTS




## TYPICAL REINFORCEMENT AT OPENINGS IN CONCRETE WALL

11 S-003

SCALE: NTS




** FOR CATCH DRAIN SIZE, SEE PLUMBING DRAWINGS.

## TYPICAL TRENCH DRAIN DETAIL

12 S-003

SCALE: NTS


JMSA ARCHITECTURE

**Jerome M. Scott Architects**
1020 Goodale Blvd
Columbus, Ohio
43212

PAUL J. FORD & COMPANY
250 E Broad St, Ste 600 · Columbus, OH 43215
Phone 614.221.6679 www.pauljford.com
A80121-0003 Corp No 01921


STATE OF OHIO — JEFFREY E. McCUTCHEN E-61727 — REGISTERED PROFESSIONAL ENGINEER — 11/12/21

DOT-200023
ODOT - EATON OUTPOST
5656 US-127 Eaton, Ohio 45320

| MARK | DATE | DESCRIPTION |
|---|---|---|
| | | |
| | | |
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| | | |
| | | |
| 3 | 03/11/22 | REVISION 3 |
| 2 | 03/11/22 | REVISION 2 / CONFORMED SET |
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| - | 12/10/21 | BID SET |
| - | 11/12/21 | PERMIT SET |

| | |
|---|---|
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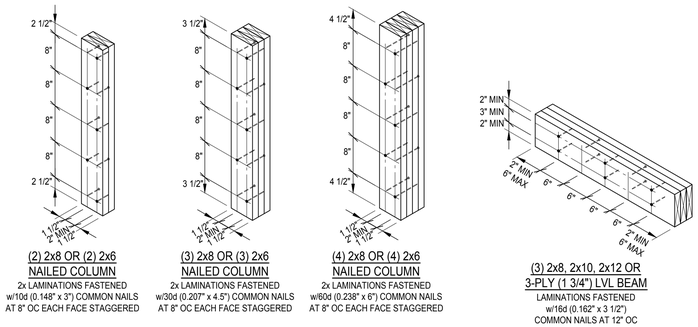
SHEET TITLE

TYPICAL FOUNDATION DETAILS

S-003




(2) 2x8 OR (2) 2x6 NAILED COLUMN
2x LAMINATIONS FASTENED w/10d (0.148" x 3") COMMON NAILS AT 8" OC EACH FACE STAGGERED

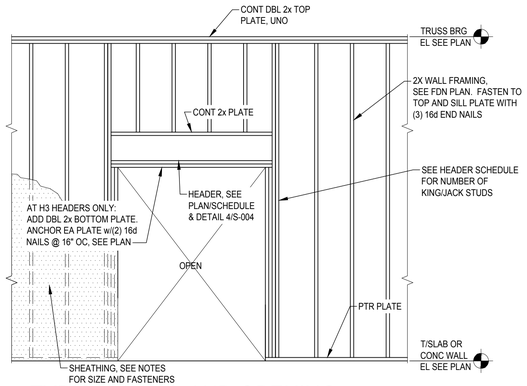
(3) 2x8 OR (3) 2x6 NAILED COLUMN
2x LAMINATIONS FASTENED w/30d (0.207" x 4.5") COMMON NAILS AT 8" OC EACH FACE STAGGERED

(4) 2x8 OR (4) 2x6 NAILED COLUMN
2x LAMINATIONS FASTENED w/80d (0.238" x 6") COMMON NAILS AT 8" OC EACH FACE STAGGERED

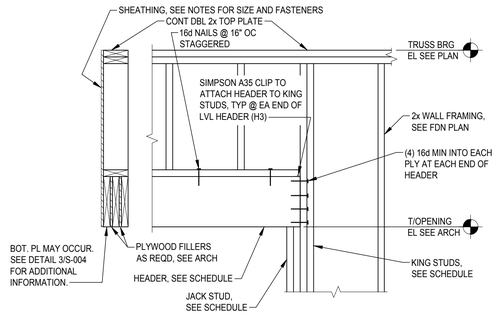
(3) 2x8, 2x10, 2x12 OR 3-PLY (1 3/4") LVL BEAM
LAMINATIONS FASTENED w/16d (0.162" x 3 1/2") COMMON NAILS AT 12" OC

## TYPICAL BUILT-UP COLUMN DETAIL — 1 / S-004
SCALE: 3/4" = 1'-0"

## TYPICAL MULTI-MEMBER HEADER DETAIL — 2 / S-004
SCALE: 3/4" = 1'-0"




## TYPICAL WALL AND OPENING CONSTRUCTION DETAIL — 3 / S-004
SCALE: NTS




## TYPICAL WOOD HEADER CONSTRUCTION DETAIL — 4 / S-004
SCALE: NTS




## TYPICAL SHEAR WALL CONSTRUCTION DETAIL — 5 / S-004
SCALE: NTS




## TYPICAL SHEAR WALL PANEL EDGE BLOCKING DETAIL — 6 / S-004
SCALE: NTS



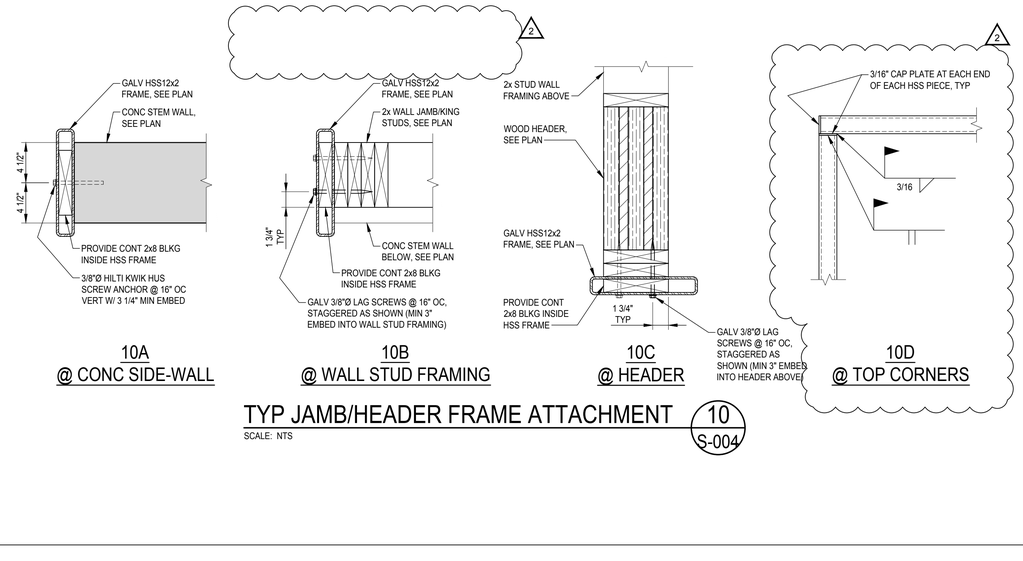

## TYPICAL DOUBLE TOP PLATE SPLICE DETAIL — 7 / S-004
SCALE: NTS




## TYPICAL FRAMED OPENING DETAIL — 8 / S-004
SCALE: NTS




## TYP CHANGE IN DBL 2x TOP PLATE ELEVATION — 9 / S-004
SCALE: NTS




## TYP JAMB/HEADER FRAME ATTACHMENT — 10 / S-004
SCALE: NTS


JMSA ARCHITECTURE

**Jerome M. Scott Architects**
1020 Goodale Blvd
Columbus, Ohio
43212

PAUL J. FORD & COMPANY
250 E Broad St, Ste 600 · Columbus, OH 43215
Phone 614.221.6679 www.pauljford.com
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# DOT-200023 ODOT - EATON OUTPOST

5656 US-127 Eaton, Ohio 45320

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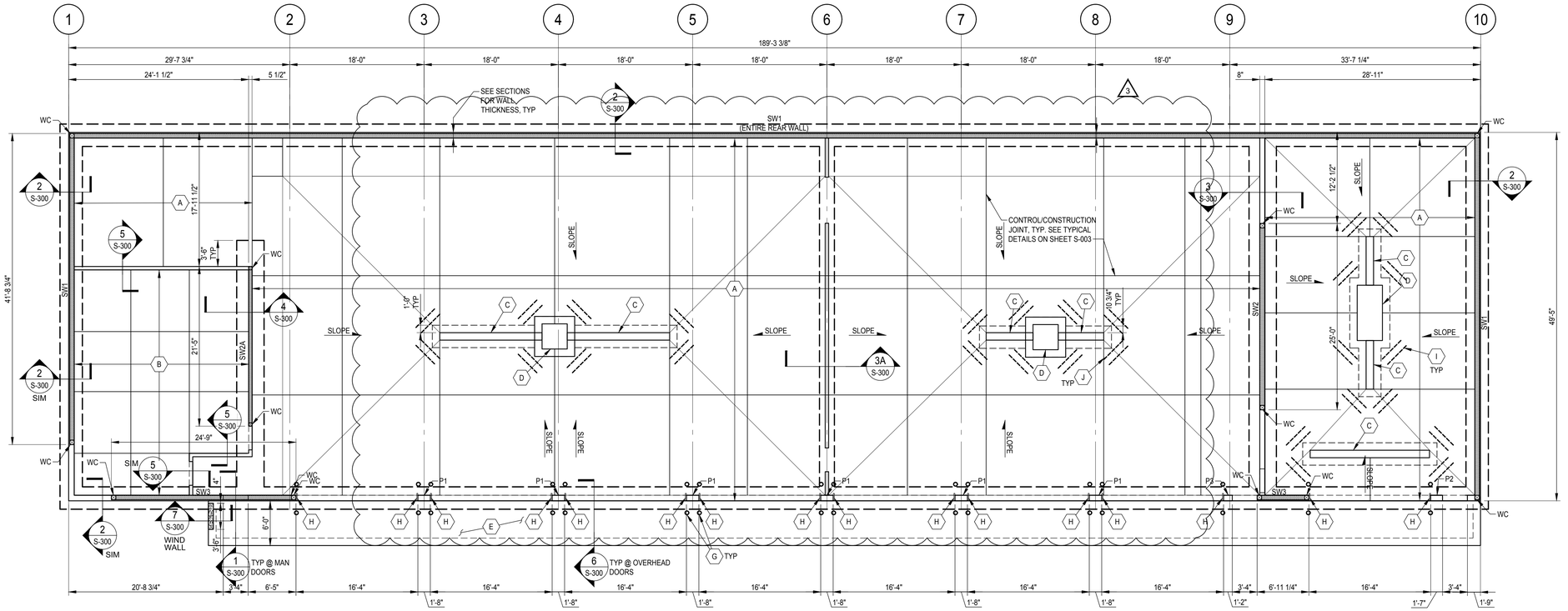
SHEET TITLE

TYPICAL FRAMING DETAILS

S-004




# FOUNDATION PLAN

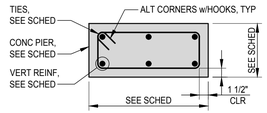
SCALE: 1/8" = 1'-0"

NORTH

## SHEAR WALL SCHEDULE

| MARK | SHEAR WALL SYTEM | | | | | FRAMING | | HOLD DOWN SYSTEM | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SHEATHING TYPE | SHEATHING APPLICATION | FASTENERS | | | STUD THICKNESS AT PANEL JOINTS | NOMINAL SILL THICKNESS | ANCHOR TYPE (BY SIMPSON STRONGTIE) | ANCHOR DIAMETER | MIN ANCHOR EMBEDMENT | BOUNDARY END POST (LOCATE EACH END) | |
| | | | NAIL SIZE | SPACING AT EDGES | SPACING IN FIELD | | | | | | | |
| SW1 | 5/8" GYPSUM BOARD, SEE ARCH | OUTSIDE FACE ONLY | 6d COOLER OR WALLBOARD NAILS | 7" OC | 12" OC | 2X | 2X | HDU5 - SDS2.5 | 5/8"ø | 12" | (2) 2x8 | |
| SW2 / SW2A | 19/32" APA RATED SHEATHING | FACE ADJACENT TO TRUCK STORAGE | 10d | 4" OC | 12" OC | 2X | 2X | HDU8 - SDS2.5 | 7/8"ø | 18" | (3) 2x8 @ SW2 (4) 2x6 @ SW2A | PROVIDE 1/2"Ø SILL PL ANCHORS @ 24" OC MAX (0'-8" EMBED) |
| SW3 | 19/32" APA RATED SHEATHING | OUTSIDE FACE ONLY | 10d | 4" OC | 12" OC | 2X | 2X | HDU8 - SDS2.5 | 7/8"ø | 18" | (3) 2x8 | PROVIDE 1/2"Ø SILL PL ANCHORS @ 24" OC MAX (0'-8" EMBED) |

NOTE:
1. BOUNDARY END POST MEMBERS SHALL BE NAILED TOGETHER PER THE BUILT-UP COLUMN REQUIREMENTS SHOWN IN THE TYPICAL DETAILS.
2. ANCHOR ROD OR ADHESIVE DOWEL FOR HOLD DOWN SHALL BE ASTM F1554, GRADE 36 MATERIAL. DIAMETER SHALL BE AS REQUIRED BY HOLD-DOWN MANUF, SEE SHEAR WALL SCHEDULE FOR EMBEDMENT LENGTH.
3. ALL FOUNDATION ANCHOR BOLTS @ SHEAR WALL LOCATIONS SHALL HAVE A STEEL PLATE WASHER NOT LESS THAN 0.229" x 3" x 3" IN SIZE.




TYPE 1

## PIER SCHEDULE

| MARK | SIZE | | REINFORCING | | TYPE |
|---|---|---|---|---|---|
| | "L" | "W" | VERT. | TIES | |
| P1 | 1'-8" | 9" | (6) #6 | #3 @ 12" O.C. | 1 |
| P2 | 1'-7" | 9" | (6) #6 | #3 @ 12" O.C. | 1 |
| P3 | 1'-2" | 9" | (4) #6 | #3 @ 12" O.C. | 1 SIM. |

FOUNDATION PLAN NOTES:

1. SEE SHEETS S-001 & S-002 FOR STRUCTURAL GENERAL NOTES.
2. SEE SHEET S-003 FOR TYPICAL FOUNDATION DETAILS.
3. COORDINATE LOCATION AND SIZE OF PENETRATIONS AND OPENINGS WITH MECHANICAL AND SITE DRAWINGS.
4. TOP OF CONCRETE WALL SHALL BE AT ELEVATION +4'-0" U.N.O., SEE SECTIONS FOR ADDITIONAL INFORMATION.
5. TOP OF FOOTING ELEVATION SHALL BE AT ELEVATION -2'-8", U.N.O.
6. PIER TYPES ARE INDICATED P-#. SEE THIS SHEET FOR PIER SCHEDULE.
7. BOTTOM OF FOOTING DETAILS SHOWN ARE BASED UPON FOUNDATIONS BEARING ON MATERIALS AS LISTED IN FOUNDATION GENERAL NOTE NO. 2 ON SHEET S001. BEARING ELEVATIONS HAVE BEEN ESTABLISHED FROM THE GRADING PLAN AND SOILS REPORT. FOUNDATION BEARING SURFACES MUST BE INSPECTED AND APPROVED IN ACCORDANCE WITH FOUNDATION GENERAL NOTE NO. 4 ON SHEET S-001 AND BOTTOM OF FOOTING ELEVATIONS ADJUSTED ACCORDINGLY.
8. CONCRETE PIERS AND WALLS SHALL BE CENTERED ON FOOTING, U.N.O.
9. ALL EXTERIOR WALL FRAMING TO BE 2x8 WOOD STUDS @ 16" O.C. ALL EXTERIOR WALLS SHALL BE SHEATHED PER SHEAR WALL TYPE SW1, TYP UNO.
10. ALL PERIMETER BUILDING DIMENSIONS ARE MEASURED TO THE OUTSIDE FACE OF THE CONCRETE FOUNDATION WALL. SEE ARCHITECTURAL DRAWINGS FOR ALL MEASUREMENTS NOT SHOWN. ALL DIMENSIONS SHALL CONFORM TO THE ARCHITECTURAL DRAWINGS.
11. TOP/FINISHED SLAB-ON-GRADE SHALL BE AT ELEVATION 0'-0" (REF), TYP., U.N.O. SEE ARCHITECTURAL DRAWINGS FOR SLOPES TO DRAIN.
12. CONTRACTOR SHALL COORDINATE SLAB FINISHES WITH ARCHITECTURAL AND SITE DRAWINGS.
13. FOR SLAB-ON-GRADE CONSTRUCTION AND CONTROL JOINT SPACING CRITERIA AND DETAILS, SEE TYPICAL DETAIL ON SHEET S-003
14. CONTRACTOR SHALL EXERCISE EXTREME CAUTION SO AS NOT TO UNDERMINE, DISTURB, DAMAGE OR, IN ANY WAY, CAUSE UNDESIRABLE MOVEMENT, CRACKING, AND/OR SETTLEMENT OF THE ADJACENT EXISTING CONSTRUCTION.
15. WC DENOTES BOUNDARY END POST PER SHEAR WALL SCHEDULE.
16. ⟋⟋⟋ DENOTES SHEAR WALL. SW# DENOTES TYPE. SHEATHING/PLYWOOD TO BE CONSTRUCTED ON EXTERIOR OF BUILDING, UNO. SEE SCHEDULE AND GENERAL NOTES FOR ADDITIONAL INFORMATION.

FOUNDATION PLAN CODED NOTES:

A. 8" THICK INTERIOR CONCRETE SLAB ON GRADE W/ #4 EPOXY COATED REINFORCING @ 16" O.C. EACH WAY, OVER A 10 MIL VAPOR RETARDER, OVER 6" ODOT 304, OVER PREPARED SUBGRADE, TYP. (UNO). CONCRETE SHALL HAVE A STEEL TROWEL FINISH.

B. 4" THICK CONCRETE SLAB ON GRADE W/ 6x6-W2.9xW2.9 EPOXY COATED WELDED WIRE FABRIC CENTERED WITHIN SLAB, OVER A 10 MIL VAPOR RETARDER, OVER 6" ODOT 304, OVER PREPARED SUBGRADE. CONCRETE SHALL HAVE A STEEL TROWEL FINISH.

C. CONCRETE TRENCH DRAIN, SEE TYPICAL DETAIL

D. SEE PLUMBING DRAWINGS FOR DRAIN SIZE

E. CONCRETE APRON. PROVIDE BROOM FINISH. THICKNESS & REINFORCING TO MATCH CODED NOTE 'A'.

F. BRINE SYSTEM EQUIPMENT PAD. SEE TYPICAL EXTERIOR SECTIONS.

G. DENOTES BOLLARD. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

H. DENOTES HSS12x2x3/16 (GALV) JAMB/HEADER FRAME FASTENED TO ADJACENT CONCRETE WAINSCOT, WOOD WALL STUDS, AND THE UNDERSIDE OF THE HEADER AT OVERHEAD DOORS. SEE TYPICAL JAMB/HEADER FRAME ATTACHMENT DETAILS ON SHEET S-004.

I. RE-ENTRANT CORNER SLAB REINFORCING PER TYP DETAIL.


JMSA ARCHITECTURE

**Jerome M. Scott Architects**
1020 Goodale Blvd
Columbus, Ohio
43212

PAUL J. FORD & COMPANY
250 E Broad St, Ste 600 · Columbus, OH 43215
Phone 614.221.6679 www.pauljford.com
A80121-0003 Corp No 01921


STATE OF OHIO
JEFFREY E. McCUTCHEN
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ODOT - EATON OUTPOST
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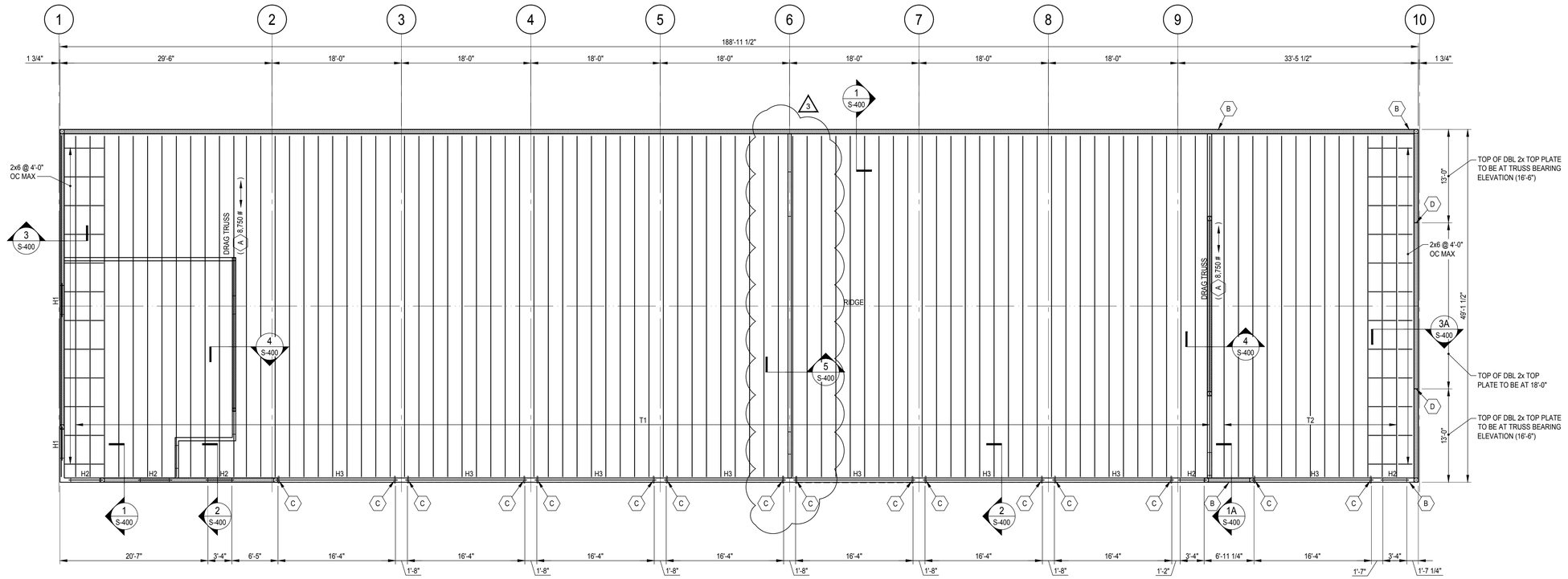
SHEET TITLE

FOUNDATION PLAN

S-100



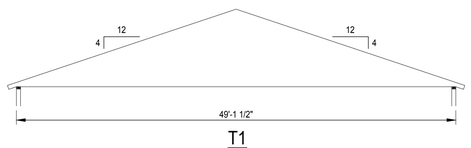

## ROOF FRAMING PLAN

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

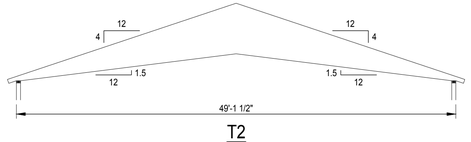
NORTH

| WOOD DIAPHRAGM SHEATHING SCHEDULE (1,2) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| LEVEL | PANEL GRADE | MIN. NOMINAL WIDTH OF FRAMING MEMBERS AT ADJOINING PANEL EDGES AND BOUNDARIES | MINIMUM PANEL THICKNESS | SPAN INDEX RATIO | SHEATHING GRADE CLASSIFICATION | COMMON NAIL SIZE (3) | MINIMUM FASTENER PENETRATION | NAIL SPACING | | | |
| | | | | | | | | DIAPHRAGM BOUNDARIES | | AT OTHER EDGES | REMARKS |
| | | | | | | | | EDGE | FIELD | | |
| ROOF | 5-PLY SHEATHING | 2x MIN | 19/32" | 40/20 | C-D EXPOSURE 1 | 10d (0.148"x3") | 1 1/2" | 6" | 12" | 6" | UNBLOCKED |

NOTES:
1. NAILS SHALL BE LOCATED AT LEAST 3/8" FROM THE EDGES OF PANEL.
2. PROVIDE 1/8" EDGE AND END JOINT BETWEEN PANELS UNLESS NOTED OTHERWISE.
3. REFER TO NOTE 10 OF THE WOOD GENERAL NOTES SECTION ON S-001 FOR ADDITIONAL INFORMATION REGARDING FASTENING OF ROOF SHEATHING.




T1




T2

## TRUSS DIAGRAMS

SCALE: NTS

ROOF FRAMING PLAN NOTES:

1. SEE SHEETS S-001 & S-002 FOR STRUCTURAL GENERAL NOTES.
2. SEE SHEET S-004 FOR TYPICAL FRAMING DETAILS.
3. ALL PERIMETER BUILDING DIMENSIONS ARE MEASURED TO THE OUTSIDE FACE OF STUD WALL. SEE ARCHITECTURAL DRAWINGS FOR ALL MEASUREMENTS NOT SHOWN. ALL DIMENSIONS SHALL CONFORM TO THE ARCHITECTURAL DRAWINGS.
4. COORDINATE LOCATION AND SIZE OF ALL ROOF PENETRATIONS AND OPENINGS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
5. SEE ARCHITECTURAL AND MECHANICAL SHEETS FOR EQUIPMENT WEIGHT AND LOCATIONS NOT INDICATED.
6. TRUSS BEARING AT ELEVATION 16'-6", U.N.O.
7. TYPICAL ROOF CONSTRUCTION: WOOD SHEATHING ON PRE-ENGINEERED WOOD TRUSSES AT 24" O.C. SEE ARCHITECTURAL DRAWINGS FOR ROOF SLOPE.
8. ONLY TRUSSES ARE SHOWN. PERMANENT BRACING FOR TRUSSES NOT SHOWN BUT REQUIRED PER TRUSS DESIGNER SPECIFICATIONS.
9. H# INDICATES HEADER/BEAM, SEE SCHEDULE FOR ADDITIONAL INFORMATION.
10. ▭ DENOTES SHEAR WALL. REFERENCE FOUNDATION PLAN. SEE SCHEDULE AND GENERAL NOTES FOR ADDITIONAL INFORMATION.
11. T# INDICATES TRUSS TYPE PER TRUSS DIAGRAMS THIS SHEET.

ROOF FRAMING PLAN CODED NOTES: ⬡

A. ASD SERVICE LEVEL WIND DRAG FORCE TO BE TRANSFERRED THROUGH TRUSS TO BOTTOM CHORD CONNECTION AT SHEAR WALL.

B. G.C. TO COORDINATE THE INSTALLATION OF BLOCKING WITHIN WALLS AS REQUIRED FOR INSTALLATION OF HOSE TROLLEY SYSTEM PER MANUFACTURER'S REQUIREMENTS. COORD LOCATION W/ ARCH DWGS.

C. DENOTES HSS12x2x3/16 (GALV) JAMB/HEADER FRAME FASTENED TO ADJACENT CONCRETE WAINSCOT, WOOD WALL STUDS, AND THE UNDERSIDE OF THE HEADER AT OVERHEAD DOORS. SEE TYPICAL JAMB/HEADER FRAME ATTACHMENT DETAIL ON SHEET S-004.

D. SEE TYPICAL CHANGE IN DOUBLE 2x TOP PLATE ELEVATION DETAIL ON SHEET S-004.

| HEADER SCHEDULE | | | |
|---|---|---|---|
| MARK | MEMBER SIZE | STUDS AT EACH SIDE OF OPENING | REMARKS |
| H1 | (3) 2x8 | 2J/2K | |
| H2 | (3) 2x10 | 2J/2K | |
| H3 | (3) 1 3/4" x 16" LVL | 3J/3K | |

NOTES:
1. PROVIDE WOOD HEADERS OVER ALL OPENINGS IN LOAD BEARING WALLS. IF NO HEADER IS SPECIFIED, PROVIDE H2 AT WALLS SUPPORTING TRUSSES AND H1 AT OTHER WALLS.
2. AT TRIPLE 2x HEADER/BEAMS, PROVIDE PLYWOOD FILLERS BETWEEN MEMBERS.
3. NAIL ALL MULTI-MEMBER HEADERS AND BEAMS TOGETHER AS SHOWN IN THE TYPICAL DETAILS.
4. STUDS AT EACH END OF HEADER/BEAM ARE AS NOTED ABOVE, UNLESS NOTED OTHERWISE.
   J = JACK STUD = BEARING STUD
   K = KING STUD = FULL HEIGHT STUD
5. WHERE HEADERS FRAME INTO PERPENDICULAR WALLS PROVIDE (4) STUDS IN ADJACENT WALL. ATTACH HEADER TO STUD PACK WITH SIMPSON HUC210-2 HANGER.


JMSA ARCHITECTURE

**Jerome M. Scott Architects**
1020 Goodale Blvd
Columbus, Ohio
43212

PAUL J. FORD & COMPANY
250 E Broad St, Ste 600 · Columbus, OH 43215
Phone 614.221.6679 www.pauljford.com
A80121-0003 Corp No 01921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JEFFREY E. McCUTCHEN
E-61727
REGISTERED PROFESSIONAL ENGINEER
11/12/21

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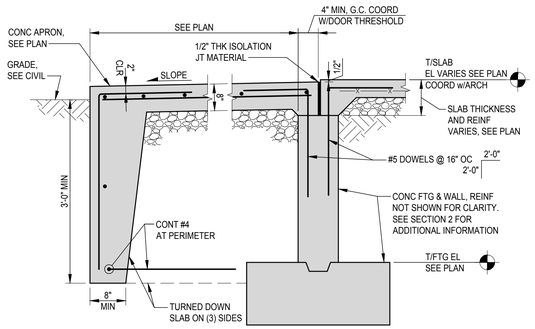
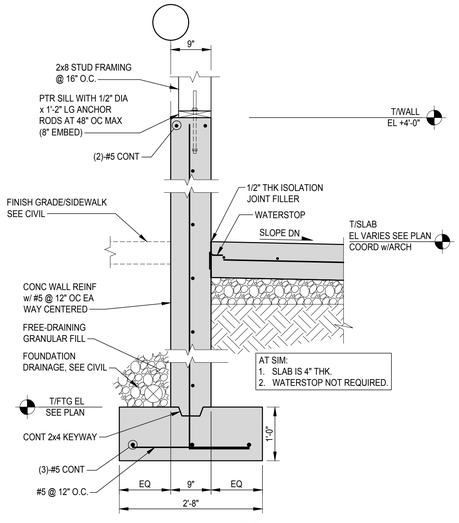
SHEET TITLE

ROOF FRAMING PLAN

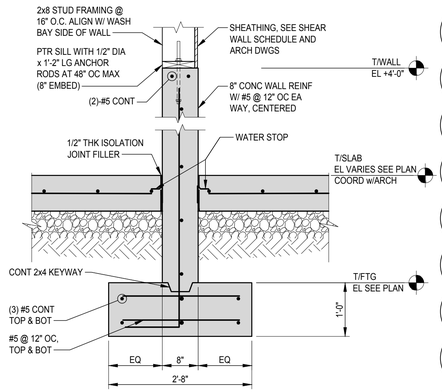
S-200



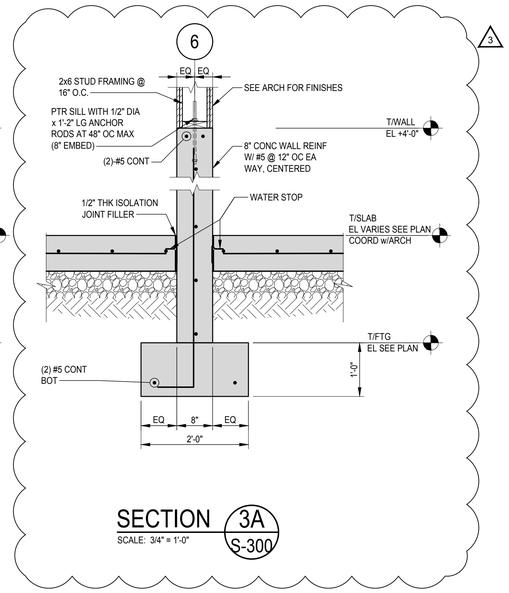

SECTION 1 S-300
SCALE: 3/4" = 1'-0"



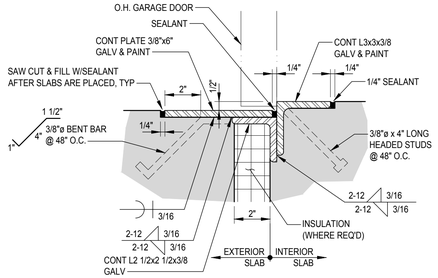

SECTION 2 S-300
SCALE: 3/4" = 1'-0"




SECTION 3 S-300
SCALE: 3/4" = 1'-0"

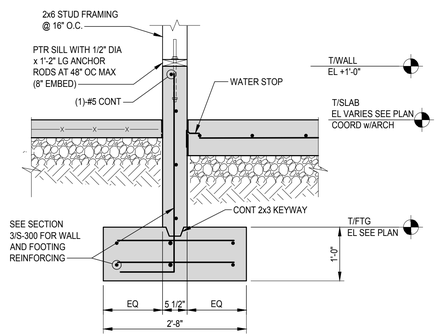



SECTION 3A S-300
SCALE: 3/4" = 1'-0"

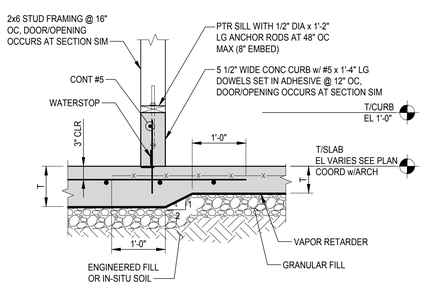



TYPICAL AT ALL EXTERIOR O.H. DOORS

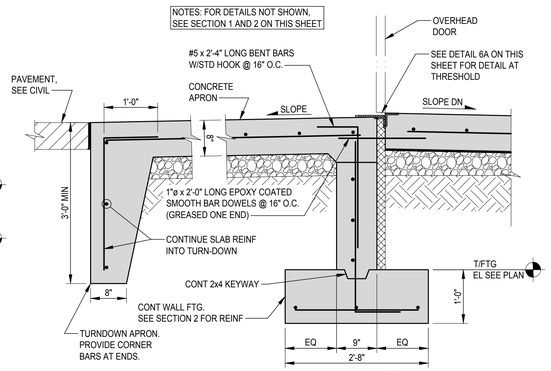
TYPICAL THRESHOLD DETAIL 6A S-300
SCALE: NTS



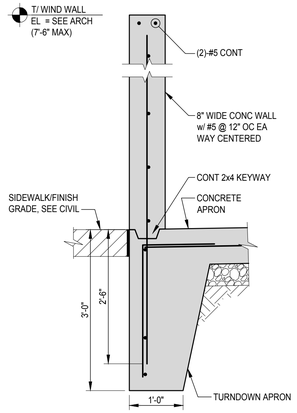

SECTION 4 S-300
SCALE: 3/4" = 1'-0"




SECTION 5 S-300
SCALE: NTS




SECTION 6 S-300
SCALE: 3/4" = 1'-0"




NOTES: FOR DETAILS NOT SHOWN, SEE SECTION 1 AND 2 ON THIS SHEET

SECTION 7 S-300
SCALE: 3/4" = 1'-0"

JMSA ARCHITECTURE
**Jerome M. Scott Architects**
1020 Goodale Blvd
Columbus, Ohio
43212

PJF PAUL J. FORD & COMPANY
250 E Broad St, Ste 600 · Columbus, OH 43215
Phone 614.221.6679 www.pauljford.com
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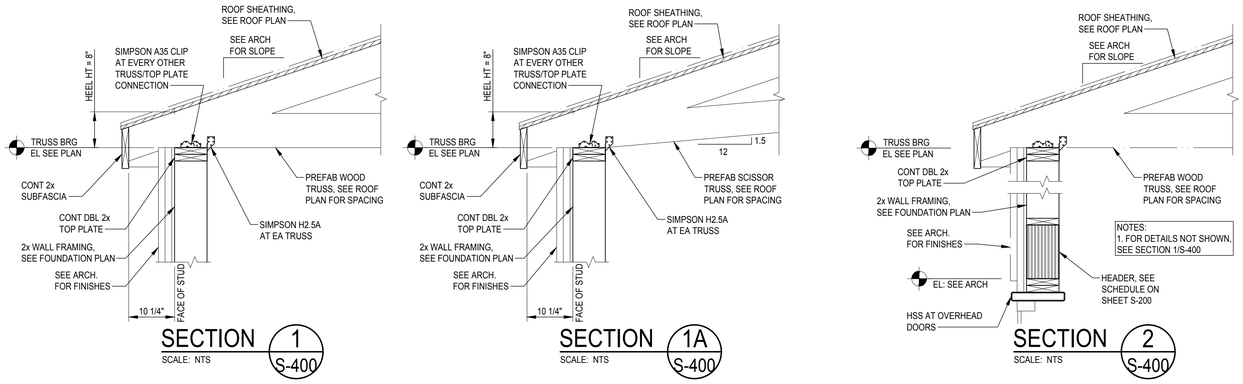
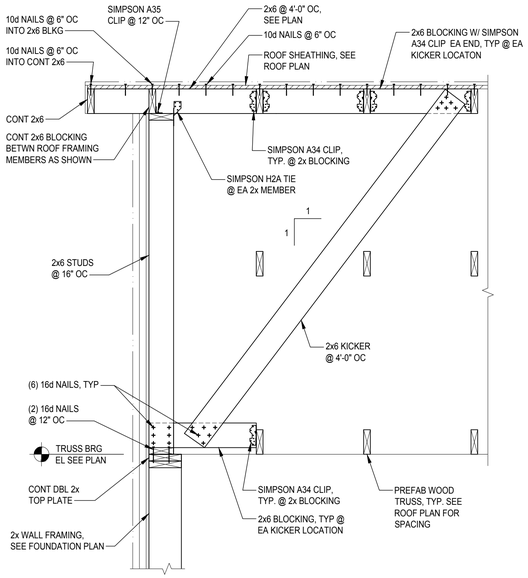
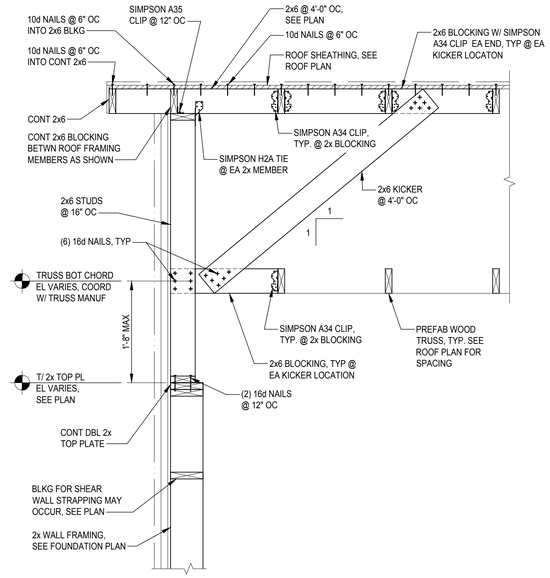
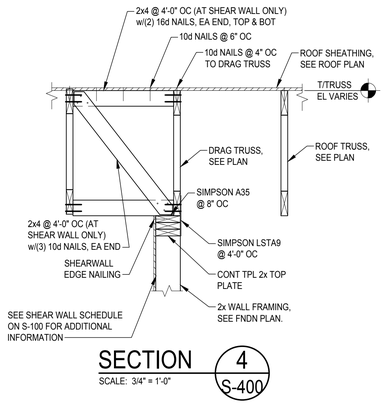
SHEET TITLE
FOUNDATION SECTIONS

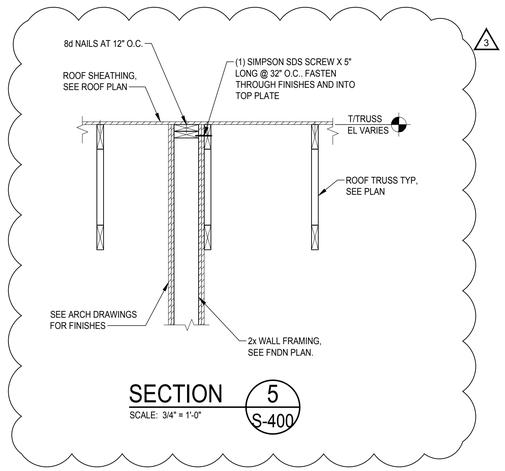
S-300





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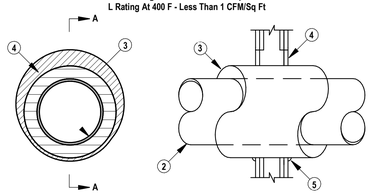
SHEET TITLE

FRAMING SECTIONS

S-400

## FIRESTOP FOR METAL PIPE | 1

**System No. W-L-5029**
**F Ratings - 1, 2 and 3 Hr (See items 1, 3 and 4)**
**T Ratings -0, 1/2, 1 and 1-1/4 Hr (See Item 3)**
**L Rating At Ambient - 4 CFM/Sq Ft**
**L Rating At 400 F - Less Than 1 CFM/Sq Ft**




1. Wall Assembly — The 1, 2 or 3 hr fire-rated gypsum board/stud wall asSECTION A-Ae constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide for 1 and 2 hr F and FH rating and 3-1/2 in. (89 mm) wide for 3 hr F and FH rating and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — Min 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in. (473 mm). The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants — One metallic pipe or tubing to be installed within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
   C. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper tube shall not exceed 4 in. (102 mm).
   D. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper pipe shall not exceed 4 in. (102 mm).
3. Pipe Covering* — Nom 1, 1-1/2 or 2 in. (25, 38 or 51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. For 1 and 2 hr F and FH Ratings, the annular space between insulated penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). For 3 hr F and FH Ratings, the annular space shall be min 0 in. (point contact) to max 1-1/4 in. (32 mm).
   See Pipe and Equipment Covering — Materials (BRGU) category in the Building Material Directory for the names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used. The hourly T, FT, FTH Ratings of the firestop system are 1/2 hr for 1 hr rated walls and 1 hr for 2 hr rated walls. For 3 hr rated walls, the hourly T, FT and FTH Ratings when steel and iron pipes are used are 1 hr. For 3 hr rated walls, the hourly T, FT and FTH Ratings when copper penetrants are used are 1-1/4 hr for 2 in. (51 mm) thick pipe covering and 0 hr for pipe covering thickness less than 2 in. (51 mm).
3A. Pipe Covering* — (Not Shown) — As an alternate to Item 3, max 2 in. (51 mm) thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 18 AWG stainless steel wire spaced max 12 in. (305 mm) OC. When the alternate pipe covering is used, the T and FT Rating shall be as specified in item 3 above. See Pipe and Equipment Covering — Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
4. Fill, Void or Cavity Material* — Sealant — For 1 and 2 hr F and FH Rating, min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. For 3 hr F and FH Rating, min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent
Sealant * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

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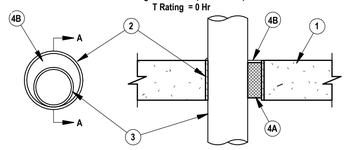
NOTE: REFER TO SPECIFICAIONS FOR LIST OF APPROVED MANUFACTURERS

## FIRESTOP FOR METAL PIPE OR CONDUIT | 2

**System No. C-AJ-1421**
**F Rating - 2 and 3 Hr (See Item 4B)**
**T Rating = 0 Hr**




1. Floor or Wall Assembly - Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 6 in. (152 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Metallic Sleeve - (Optional) Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
3. Through-Penetrant - One metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop sytem. The annular space between pipe, tube or conduit and periphery of opening shall be min 0 in. (0 mm) (point contact) to max 5-3/8in. (137 mm). Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or conduits may be used:
   A. Steel Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe - Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
   C. Copper Pipe - Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
   D. Copper Tubing - Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Conduit - Nom 4 in. (102 mm) diam (or smaller) steel conduit.
   F. Conduit - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT).
4. Firestop System - The firestop system shall consist of the following:
   A. Packing Material - Min 4 in. (102 mm) thickness of min 4 pcf (64kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* - Sealant - Min 1/4in. (6mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. For 3 Hr rated assemblies, a min 1/4 in. (6mm) diam bead of fill material shall be applied at the concrete/pipe interface at the point contact location on the top surface of floor and on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-ONE Sealant or CP604 Self-Leveling Firestop Sealant. CP604 shall be used in floor applications only. When CP604 is used, F Rating is 2 Hr.
*Bearing the UL Classification Mark

Hilti Firestop Systems

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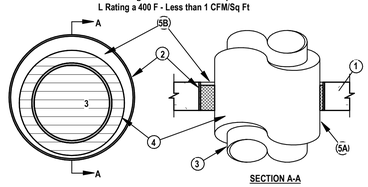
NOTE: REFER TO SPECIFICATIONS FOR LIST OF APPROVED MANUFACTURERS

## ABBREVIATIONS

| | | | |
|---|---|---|---|
| Ø | ROUND | LVR | LOUVER |
| ABV | ABOVE | LWT | LEAVING WATER TEMPERATURE |
| AC | AIR CONDITIONING | M/A | MIXED AIR |
| AD | AREA DRAIN | MAX | MAXIMUM |
| ADD | ADDENDUM | MBH | ONE THOUSAND BTU PER HOUR |
| AFF | ABOVE FINISHED FLOOR | MCF | ONE THOUSAND CUBIC FEET |
| AFUE | ANNUAL FUEL UTILIZATION EFFICIENCY | MD | MOTORIZED DAMPER |
| ALT | ALTERNATE | MECH | MECHANICAL |
| AP | ACCESS PANEL | MFR | MANUFACTURER |
| ARCH | ARCHITECT/ARCHITECTURAL | MIN | MINIMUM |
| BFF | BELOW FINISHED FLOOR | MISC | MISCELLANEOUS |
| BLW | BELOW | MTR | MOTOR |
| BTU | BRITISH THERMAL UNITS | MUA | MAKE-UP/AIR |
| BTUH | BRITISH THERMAL UNITS PER HOUR | NC | NOISE CRITERIA |
| CAP | CAPACITY | NC | NORMALLY CLOSED |
| CB | CATCH BASIN | NIC | NOT IN CONTRACT |
| CFM | CUBIC FEET PER MINUTE | NO | NUMBER |
| CLG | CEILING | NO | NORMALLY OPEN |
| CO | CLEAN OUT | NTS | NOT TO SCALE |
| CW | COLD WATER | O | OXYGEN |
| D | DEGREE | O/A | OUTSIDE AIR |
| DB | DRY BULB | ORD | OVERFLOW ROOF DRAIN |
| DIA | DIAMETER | PD | PRESSURE DROP |
| DN | DOWN | PIV | POST INDICATOR VALVE |
| DW | DISTILLED WATER | PLBG | PLUMBING |
| EA | EACH | PRESS | PRESSURE |
| EAT | ENTERING AIR TEMPERATURE | PRV | PRESSURE REDUCING VALVE |
| ELEC | ELECTRICAL | PSI | POUNDS PER SQUARE INCH |
| EQUIP | EQUIPMENT | PSIG | POUNDS PER SQUARE INCH GAUGE |
| EWC | ELECTRIC WATER COOLER | PWR | POWER |
| EWT | ENTERING WATER TEMPERATURE | R | DUCT RISER |
| E/A | EXHAUST AIR | R/A | RETURN AIR |
| EXIST | EXISTING | RCP | RADIANT CEILING PANEL |
| F | DEGREES FAHRENHEIT | RD | ROOF DRAIN |
| FCO | FLOOR CLEAN OUT | REC | RECESSED |
| FD | FLOOR DRAIN | RED | REDUCER |
| FD | FIRE DAMPER | RH | RELATIVE HUMIDITY |
| FDV | FIRE DEPARTMENT VALVE | RL/A | RELIEF AIR |
| FL | FLOOR | RM | ROOM |
| FO | FUEL OIL | RPM | REVOLUTIONS PER MINUTE |
| FOV | FUEL OIL VENT | RW | RAIN WATER |
| FOR | FUEL OIL RETURN | SF | SQUARE FOOT |
| FOS | FUEL OIL SUPPLY | S/A | SUPPLY AIR |
| FPM | FEET PER MINUTE | SAN | SANITARY |
| FS | FLOOR SINK | SF | SQUARE FOOT |
| FT | FOOT/FEET | SD | SMOKE DAMPER |
| FTR | FIN TUBE RADIATION | SM | SURFACE MOUNT |
| GAL | GALLON | SP | STANDPIPE |
| GC | GENERAL CONTRACTOR | SP | STATIC PRESSURE |
| GPM | GALLONS PER MINUTE | STM | STEAM |
| GW | GREASE WASTE | T | THERMOSTAT |
| HB | HOSE BIB | TD | TEMPERATURE DROP |
| HP | HORSE POWER | TDR | TRENCH DRAIN |
| HTG | HEATING | TEMP | TEMPERATURE |
| HTR | HEATER | TYP | TYPICAL |
| HW | HOT WATER | U/G | UNDERGROUND |
| HYD | HYDRANT | VAC | VACUUM |
| ID | INDIRECT | V | VENT |
| IN | INCH | VAV | VARIABLE AIR VOLUME |
| INV | INVERT | VENT | VENTILATION |
| LB | POUND | VTR | VENT THROUGH ROOF |
| LB/HR | POUNDS PER HOUR | VTW | VENT THROUGH WALL |
| LAT | LEAVING AIR TEMPERATURE | W | WASTE |
| LP | LOW PRESSURE | WCO | WALL CLEAN OUT |
| LPG | LIQUEFIED PETROLEUM GAS | WH | WALL HYDRANT |

## FIRESTOP FOR METAL PIPE | 3

**System No. C-AJ-5091**
**F Rating - 2 Hr**
**T Rating - 1 Hr**
**L Rating At Ambient - 4 CFM/Sq Ft**
**L Rating a 400 F - Less than 1 CFM/Sq Ft**




SECTION A-A

1. Floor or Wall Assembly - Min 4-1/2 in. (114mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 29 in. (737 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance directory for names of manufacturers.
2. Metallic Sleeve - (Optional) - Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe
3. Through Penetrants - One metallic pipe or tubing to be installed either concentically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. Steel Pipe - Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe - Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
   C. Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
   D. Copper Tubing - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
4. Pipe Covering - Min 1/2 in (13 mm) to max 2 in. (51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m3) glass fiber units jacketed on the outside with an all-service jacket. Longitudinal joints sealed with metal fasteners or factory-applied, self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated pipe and the edge of the periphery of the opening shall be min 1/2 in. (13 mm) to max 12 in. (305 mm). When thickness of pipe coverings is less than 2 in. (51 mm), the T Rating for the firestope system is 0 hr.
   See Pipe Equipment Covering - Materials - (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and beaing the UL Classification Marking with a Flame Spread Index of 25 of less and a Smoke Developed Index of 50 or less may be used.
4A. Pipe Covering - (Not Shown) - As an alternate to Item 4, max 2 in. (51 mm) thick cylindrical calcium silicate (min 14 pcf or 224 kg/m3) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 18 AWG stainless steel wire spaced max 12 in. (305 mm) OC. The annular space shall be min 1/2 in (13 mm) to max 12 in. (305 mm).
5. Firestop System - The firestop system shall consist of the following:
   A. Packing Material - Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* - Sealant - Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-ONE MAX Intumescent Sealant
*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

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NOTE: REFER TO SPECIFICAIONS FOR LIST OF APPROVED MANUFACTURERS

## GENERAL MECHANICAL SYMBOLS

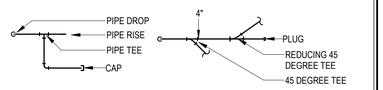
- REVISION NUMBER - SHOWN ON PLANS
- POINT WHERE NEW CONNECTS TO EXISTING
- NUMBER OF DETAIL ON SHEET
- NUMBER OF SHEET WHERE DETAIL APPEARS
- KEYNOTE
- CONTINUATION SYMBOL
- Room 1.1 — ROOM NAME AND NUMBER
- ITEM TO BE DEMOLISHED
- AREA NOT IN CONTRACT
- "Z" — PIPE SIZE TAG (DIAMETER)
- ABOVE GROUND PIPING
- 1/8" / 12" SLOPE — PIPE SLOPE TAG
- BELOW GROUND PIPING
- INVERT: -10' - 1" — PIPE INVERT ELEVATION TAG
- (E) — EXISTING PIPE TAG
- PIPING BEING DEMOLISHED

## EQUIPMENT ABBREVIATIONS

| | | | |
|---|---|---|---|
| AC | AIR CONDITIONING UNIT | EWH | ELECTRIC WATER HEATER |
| ACC | AIR COOLED CONDENSER | FCU | FAN COIL UNIT |
| ACCU | AIR COOLING CONDENSING UNIT | FP | FIRE PUMP |
| AHU | AIR HANDLING UNIT | GI | GREASE INTERCEPTOR |
| AS | AIR SEPARATOR | GRV | GRAVITY ROOF VENTILATOR |
| B | BOILER | HWP | HEATING WATER PUMP |
| CH | CHILLER | HX | HEAT EXCHANGER |
| CT | COOLING TOWER | HRU | HEAT RECOVERY UNIT |
| CUH | CABINET UNIT HEATER | PRV | POWER ROOF VENTILATOR |
| CWP | CONDENSER WATER PUMP | RE | RETURN/EXHAUST FAN |
| CHWP | CHILLED WATER PUMP | RTU | ROOFTOP UNIT |
| DBP | DOMESTIC WATER BOOSTER PUMP | SEP | SEWAGE EJECTOR PUMP |
| DC | DUCT MOUNTED COIL | SF | SUPPLY FAN |
| DCP | DOMESTIC WATER CIRCULATING PUMP | SP | SUMP PUMP |
| EF | EXHAUST FAN | UH | UNIT HEATER |
| EDC | ELECTRIC DUCT COIL | WH | WATER HEATER |
| ET | EXPANSION TANK | | |

## PLUMBING AND PIPING SYMBOLS

- C — NATURAL GAS
- PG — PROPANE GAS
- CWV — COMBINATION WASTE & VENT
- CA — COMPRESSED AIR
- CW — DOMESTIC COLD WATER
- H-CW — HARD COLD WATER
- S-CW — SOFT COLD WATER
- F-CW — FILTERED COLD WATER
- RO — REVERSE OSMOSIS WATER
- HW — HOT WATER
- HW 140° — HOT WATER 140°
- HW-R — HOT WATER RECIRCULATION
- HW-R 140° — HOT WATER RECIRCULATION 140°
- GV — GREASE VENT
- GW — GREASE WASTE
- IW — INDIRECT WASTE
- OV — OIL VENT
- OW — OIL WASTE
- PD — PUMP DISCHARGE
- V — SANITARY VENT
- SAN — SANITARY SEWER
- ST — STORM DRAINAGE
- STO — OVERFLOW STORM DRAINAGE




PIPE ACCESSORY TAGS

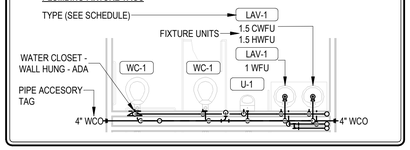
- SHUTOFF / ISOLATION VALVE
- BALL VALVE
- BUTTERFLY VALVE
- GLOBE VALVE
- GATE VALVE
- OS&Y VALVE
- PLUG VALVE
- STRAINER WITH VALVED BLOWDOWN
- CHECK VALVE
- PRESSURE REDUCING VALVE
- MANUAL BALANCING VALVE
- COMBINATION BALANCE / SHUTOFF VALVE
- THERMOSTATIC MIXING VALVE
- SOLENOID VALVE
- FLEXIBLE CONNECTOR
- UNION
- FLANGE
- PIPE CAP
- CONCENTRIC PIPE REDUCER
- ECCENTRIC PIPE REDUCER
- PIPE ANCHOR
- PIPE GUIDE
- PITCH DOWN
- DIRECTION OF FLOW

DRAIN TAGS

| | | | |
|---|---|---|---|
| FLOOR DRAIN | FD-1 | 4" AD-6 | AREA DRAIN |
| FLOOR DRAIN | 4" FD-3P | 4" RD-29 | DECK DRAIN |
| FLOOR SINK | 4" FS-4 | 4" RD-12 | FLOW CONTROL DRAIN |
| HUB DRAIN | 4" FD-13 | 4" RD-15 | ROOF DRAIN |

DRAIN SIZE — TYPE (SEE SCHEDULE)
"P" - INDICATES PRIMER CONNECTION
8 WFU — FIXTURE UNITS
ROOF AREA SERVED BY DRAIN — 6" RD-1, 4000 SF — COMBINATION DRAINS

PLUMBING FIXTURE TAGS




## PLUMBING GENERAL NOTES

A. THESE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. THE PLUMBING CONTRACTOR SHALL VERIFY QUANTITIES, SIZES, AND LOCATIONS OF ALL FIXTURES, VENTS, STACKS, WATERLINES, ETC. PRIOR TO ANY CONSTRUCTION. ERRORS AND OMISSIONS SHALL BE CALLED TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/CONSTRUCTION MANAGER.
B. THE PLUMBING CONTRACTOR, BY VIRTUE OF COMPLETING THE WORK SHALL BE RESPONSIBLE FOR GUARANTEES THAT ALL INSTALLED SYSTEMS WILL FUNCTION PROPERLY AS DESIGNATED BY THE CONTRACT DRAWINGS. IN THE CASE THAT THERE IS DISCREPANCY BETWEEN SPECIFICATIONS AND CONTRACT DRAWINGS, THE MOST STRINGENT SHALL PREVAIL.
C. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH STATE & LOCAL PLUMBING CODES, LOCAL HEALTH DEPT. REGULATIONS, AND EPA REQUIREMENTS.
D. OBTAIN AND PAY FOR ALL PERMITS, CAPACITY CHARGES, FRONTAGE FEES, TAP/METER FEES AND INSPECTION DEPOSITS.
E. PIPING & EQUIPMENT LAYOUT IS SCHEMATIC. EXACT LOCATIONS OF PIPING & EQUIPMENT TO BE COORDINATED WITH BUILDING STRUCTURE AND WORK OF OTHER CONTRACTORS.
F. ALL PIPING SHALL BE CONCEALED IN AREAS OF FINISHED CONSTRUCTION. FINISHED AREAS WITH EXPOSED STRUCTURE (I.E. GYMNASIUMS) SHALL HAVE ALL PIPING RUN ABOVE THE BOTTOM CHORD OF TRUSSES UNLESS NOTED OTHERWISE.
G. COORDINATE EXACT LOCATION OF GAS AND COLD WATER OUTLETS IN MECH. EQUIP. & BOILER ROOMS WITH HVAC CONTRACTOR.
H. RUN ALL WATER AND GAS LINES LEVEL.
I. PROVIDE STOP VALVES AT FIXTURES.
J. SHUT-OFF VALVES SHOWN ARE TO BE INSTALLED IN ADDITION TO STOP VALVES AND AT ALL RESTROOMS.
K. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF HANDICAPPED FIXTURES.
L. FIELD VERIFY INVERTS, LOCATION, AND FLOW DIRECTION OF EXISTING SANITARY & STORM SEWER PIPING PRIOR TO PERFORMING ANY PLUMBING WORK.
M. INVERT ELEVATIONS GIVEN OF SANITARY, STORM, AND CONDENSATE DRAINAGE PIPING ARE APPROXIMATE AND BASED ON FINISHED FLOOR ELEVATION SHOWN. FINAL DETERMINATION OF INVERTS SHALL BE MADE IN FIELD AND SHALL BE COORDINATED WITH HVAC CONTRACTOR. COORDINATE CLOSELY WITH OTHER CONTRACTORS WHEN ROUGHING IN FOR & MAKING FINAL CONNECTIONS TO FIXTURES & EQUIPMENT.
N. COORDINATE ALL EQUIPMENT DELIVERY, RIGGING, STORAGE, AND INSTALLATION WITH GENERAL CONTRACTOR & BUILDING CONSTRUCTION CONDITIONS.
O. KITCHEN FIXTURES & EQUIPMENT TO BE PROVIDED & INSTALLED BY KITCHEN CONTRACTOR UNLESS OTHERWISE SPECIFIED. PLUMBING CONTRACTOR SHALL ROUGH-IN FOR & MAKE FINAL CONNECTIONS. KC TO FURNISH ALL HARDWARE TO INCLUDE TRAPS, SUPPLIES, HOSES, FAUCETS, ETC.
P. ALL VALVES CAPABLE OF INTERRUPTING FIRE PROTECTION SERVICE TO LIMITED AREA SPRINKLER SYSTEM SHALL BE PROVIDED WITH PADLOCK & CHAIN AND LOCKED OPEN.
Q. ANCHORS, ALIGNMENT GUIDES, EXPANSION LOOPS, EXPANSION JOINS, ETC. SHOWN ON THE DRAWINGS ARE FOR GENERAL REFERENCE. CONTRACTOR SHALL EVALUATE FINAL PIPING LAYOUTS AND EXPANSION REQUIREMENTS AND PROVIDE ALL NECESSARY ITEMS TO ACCOMMODATE PIPE EXPANSION IN THE SYSTEMS. ALL ASSOCIATED COSTS ARE TO BE INCLUDED IN THE CONTRACTOR'S BID. REFER TO SPECIFICATION 22 05 16 - EXPANSION FITTINGS AND LOOPS FOR PLUMBING PIPING FOR ADDITIONAL REQUIREMENTS.
R. ITEMS INDICATED ON PLANS AS EXISTING ARE APPROXIMATE LOCATIONS. SITE VISITS DURING BIDDING PROCESS MAY BE NECESSARY IN ORDER TO DETERMINE ACTUAL SIZES AND LOCATIONS OF PIPING, EQUIPMENT, BEST TIE-IN LOCATIONS, AND EXISTING CONSTRUCTION CONDITIONS. ACTUAL LOCATIONS OF PIPING & EQUIPMENT SHALL BE MADE IN FIELD PRIOR TO PERFORMING PLUMBING WORK.
S. ROOM #'S SHOWN ON DRAWINGS ARE FOR SCHEMATIC REFERENCE ONLY AND DO NOT NECESSARILY REFLECT ACTUAL ROOM #'S.
T. PLUMBING CONTRACTOR SHALL TAKE PRECAUTIONS AS TO NOT DAMAGE ANY EXISTING, REMAINING PLUMBING FIXTURES AND/OR EQUIPMENT DURING CONSTRUCTION. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY XISTING FIXTURES AND/OR EQUIPMENT DAMAGED DURING CONSTRUCTION.
U. PROVIDE ALL CUTTING, PATCHING, AND TOUCH-UP PAINTING REQUIRED FOR NEW WORK.
V. PRIOR TO FABRICATION OR INSTALLATION OF PIPING, THE PLUMBING CONTR. SHALL COORDINATE LOCATIONS & ELEVATIONS OF OTHER EQUIPMENT, INCLUDING, BUT NOT LIMITED TO LIGHT FIXTURES, DIFFUSERS, DUCTWORK, CONDUITS, PIPING, & CEILING GRID. OBTAIN SIGNATURES OF OTHER TRADES ON THE COORDINATION DRAWING.
W. HOT WATER SHALL BE PIPED TO LEFT SIDE OF ALL FAUCETS, UNLESS SPECIFICALLY NOTED OTHERWISE.W.- P.C TO REFER TO ENLARGED ARCHITECTURAL PLANS & ELEVATIONS FOR FIXTURE & EQUIPMENT REQUIREMENTS.
X. WHERE FLOOR DRAIN TRAP SEAL IS SUBJECT TO LOSS BY EVAPORATION. P.C. SHALL PROVIDE A TRAP PRIMER OR BARRIER TRAP SEAL.
Y. P.C. TO PROVIDE WATER HAMMER ARRESTER ON PIPING SUPPLYING ALL FLUSH VALVES & OTHER QUICK CLOSING VALVES. WATER HAMMER ARRESTER TO BE SIZED PER PDI RECOMENDATIONS.
Z. ALL VALVES INDICATED ON PLANS AS BEING NORMALLY CLOSED BY-PASS VALVES SHALL BE LABELED AS SUCH IN THE FIELD.
AA. P.C TO REFER TO ENLARGED ARCHITECTURAL PLANS & ELEVATIONS FOR FIXTURE & EQUIPMENT REQUIREMENTS.
BB. ALL ABOVE CEILING SANITARY DRAIN LINES SHALL HAVE CLEAN-OUTS @ END OF HORIZONTAL RUN.
CC. CONTRACTOR IS RESPONSIBLE FOR SEALING AND PATCHING ALL OPENINGS IN WALLS. FIRESTOP ANY OPENINGS IN RATED ASSEMBLIES. REFER TO SPECIFICATIONS. PROPERLY SUPPORT ALL PENETRATING ITEMS. WALL OPENINGS ARE NOT TO BE USED FOR SUPPORT. COORDINATE ALL OPENINGS IN BOTH NEW AND EXISTING ASSEMBLIES WITH ALL TRADES.

## PLUMBING SHEET INDEX



| | |
|---|---|
| P000 | PLUMBING LEGENDS |
| PSU | PLUMBING SITE UTILITY PLAN |
| P001 | PLUMBING UNDERSLAB PLAN |
| P101 | FIRST FLOOR PLUMBING PLAN |
| P401 | ENLARGED PLUMBING PLANS |
| P601 | PLUMBING SCHEDULES & DETAILS |
| P901 | PLUMBING STACKS |




JMSA ARCHITECTURE

Jerome M. Scott Architects
1020 Goodale Blvd
Columbus, Ohio
43212

Dynamix Engineering
A VEREGY COMPANY
855 Grandview Avenue, 3rd Floor Columbus, OH 43215
Phone: (614) 443-1178 Fax: (614) 443-1594
Email: dynamix@dynamix-ltd.com
DEL #21-179


DOUGLAS E. SMITH — REGISTERED PROFESSIONAL ENGINEER

DOT-200023 ODOT - EATON OUTPOST

CONSTRUCTION DOCUMENTS

5656 US-127 Eaton, Ohio 45320

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 3 | 03/11/22 | Revision 3 |
| 2 | 03/11/22 | Revision 2 / Conformance Set |
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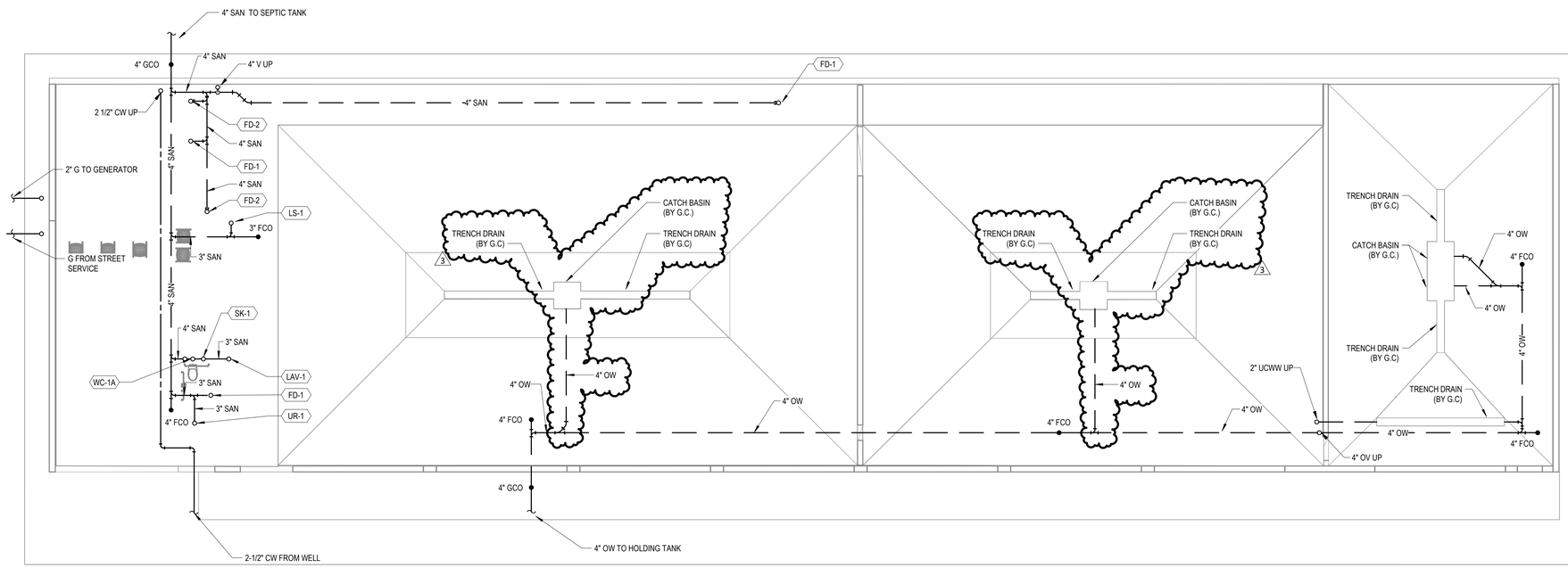
SHEET TITLE

PLUMBING LEGENDS

P000

| PLAN NOTES | |
|---|---|
| # | NOTE |




1 P001 PLUMBING UNDERSLAB PLAN
1/8" = 1'-0"
0 4' 8' 16'


JMSA ARCHITECTURE

Jerome M. Scott Architects
1020 Goodale Blvd
Columbus, Ohio
43212

Dynamix Engineering
A VEREGY COMPANY
855 Grandview Avenue, 3rd Floor Columbus, OH 43215
Phone: (614) 443-1178 Fax: (614) 443-1594
Email: dynamix@dynamix-ltd.com
DEL #21-179


DOUGLAS E. SMITH
REGISTERED ARCHITECT

DOT-200023 ODOT - EATON OUTPOST

CONSTRUCTION DOCUMENTS

5656 US-127 Eaton, Ohio 45320

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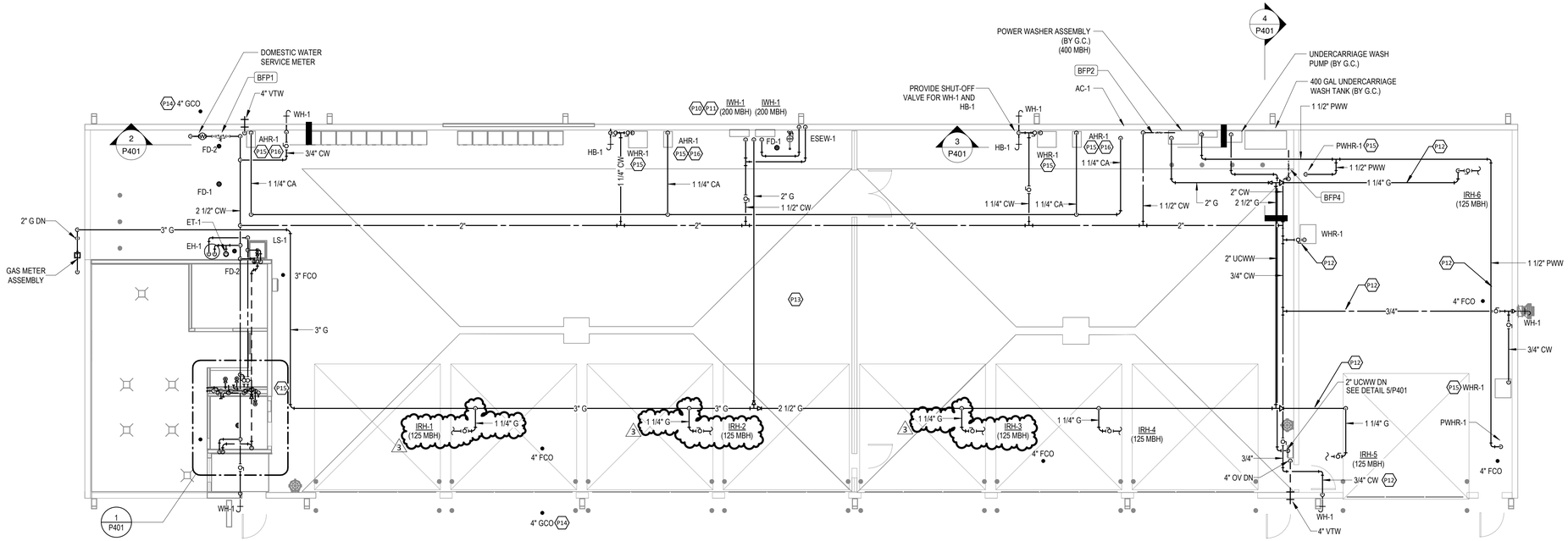
SHEET TITLE

# PLUMBING UNDERSLAB PLAN

P001

| PLAN NOTES | |
|---|---|
| # | NOTE |
| P10 | PROVIDE PVC OUTSIDE AIR INTAKE AND FLUE PIPING FOR INSTANTANEOUS WATER HEATER. EXTEND PIPING TO EXTERIOR OF BUILDING AND TERMINATE PER IFGC, OBC, AND MFR'S RECOMMENDATIONS. |
| P11 | PIPE INSTANTANEOUS HEATERS IN PARALLEL ARRANGEMENT. PIPE UNITS PER MFR'S RECOMMENDATIONS. UNITS SHALL HAVE CONTROLS PROVIDED BY MANUFACTURER. CONTROLS SHALL INCLUDE ALL EQUIPMENT AS NECESSARY TO ENABLE STAGING OF MULTIPLE UNITS BASED ON WATER FLOWS. |
| P12 | PROVIDE STAINLESS STEEL PIPES WITHIN WASH BAY. |
| P13 | MAINTAIN MINIMUM 16'-0" CLEARANCE BELOW ALL PIPING AND EQUIPMENT IN TRUCK STORAGE AREA AND WASHBAY. |
| P14 | PROVIDE EXTERIOR CLEANOUT IN 18"x18"x6" CONCRETE PAD. |
| P15 | MOUNT REEL AT 5'-0" AFF. COORDINATE EXACT LOCATION WITH OWNERS REQUIREMENTS. PROVIDE SHUT-OFF VALVE IN VERTICAL DROP. |
| P16 | PROVIDE SHUT-OFF VALVE, TEE, AND DIRT LEG UPSTREAM OF HOSE REEL. |




1 P101 FIRST FLOOR PLUMBING PLAN
1/8" = 1'-0"
0 4' 8' 16'


JMSA ARCHITECTURE

Jerome M. Scott Architects
1020 Goodale Blvd
Columbus, Ohio
43212

Dynamix Engineering
A VEREGY COMPANY
855 Grandview Avenue, 3rd Floor Columbus, OH 43215
Phone: (614) 443-1178 Fax: (614) 443-1594
Email: dynamix@dynamix-ltd.com
DEL #21-179


STATE OF OHIO
DOUGLAS E. SMITH
REGISTERED PROFESSIONAL ENGINEER

DOT-200023 ODOT - EATON OUTPOST

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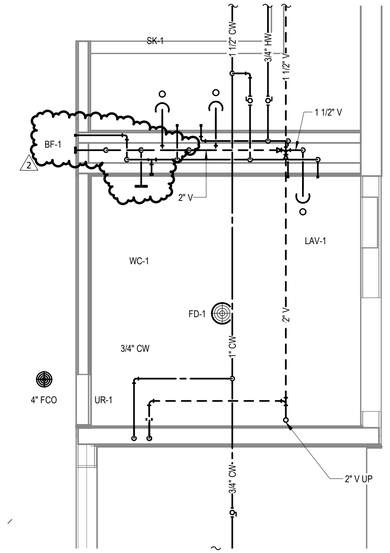
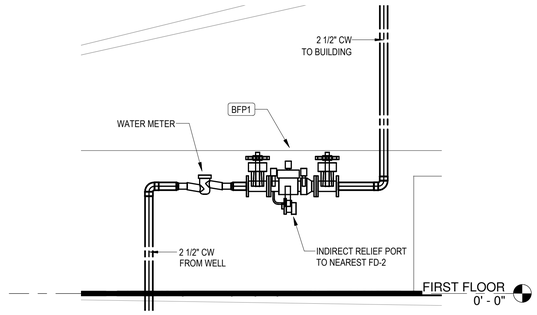
FIRST FLOOR PLUMBING PLAN

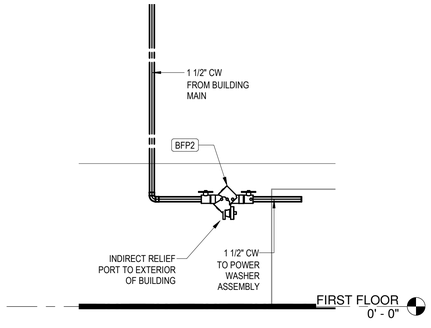
P101




1 P401 ENLARGED PLUMBING PLANS - RESTROOM
1/2" = 1'-0"




2 P401 BFP1 RISER DIAGRAM
1/2" = 1'-0"




3 P401 BFP2 RISER DIAGRAM
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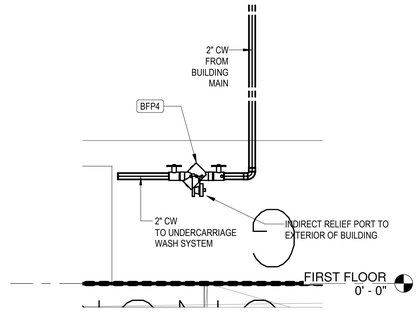
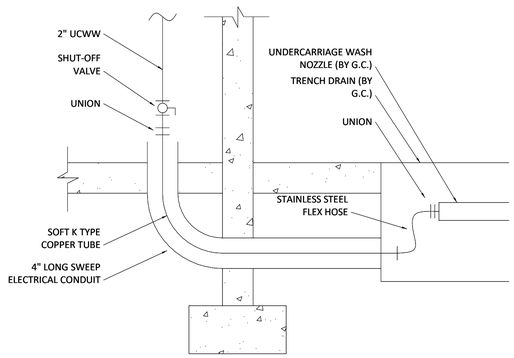


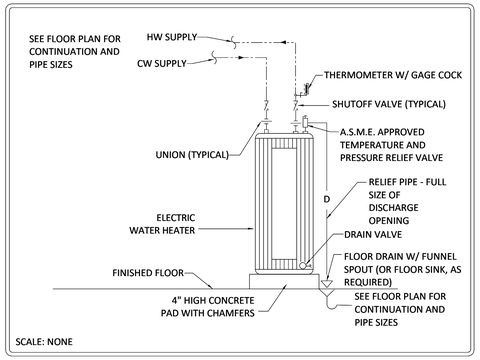

4 P401 BFP4 RISER DIAGRAM
1/2" = 1'-0"

## UNDERCARRIAGE WASH CONNECTION DETAIL | 5



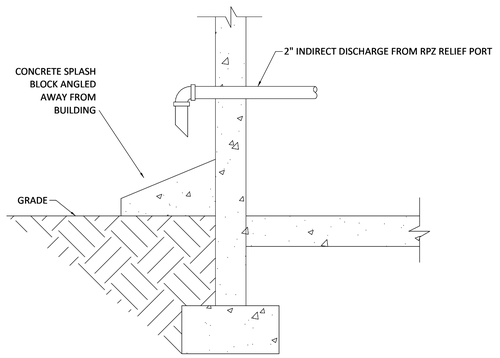

SCALE: NONE

## ELECTRIC WATER HEATER | 6




SCALE: NONE

## RPZ RELIEF VALVE DISCHARGE TO SPLASH BLOCK DETAIL | 7




SCALE: NONE

JMSA ARCHITECTURE

Jerome M. Scott Architects
1020 Goodale Blvd
Columbus, Ohio
43212

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A VEREGY COMPANY
855 Grandview Avenue, 3rd Floor Columbus, OH 43215
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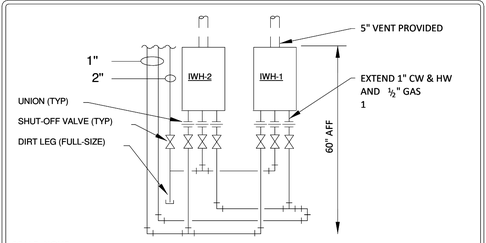
SHEET TITLE

ENLARGED PLUMBING PLANS

P401

## GAS WATER HEATER DETAIL — 8




SCALE: NONE

| OM BLDG GAS-FIRED EQUIPMENT CONNECTION SCHEDULE | | | | |
|---|---|---|---|---|
| TAG NO. | GAS SUPPLY FINAL CONN.* | ITEM | INPUT CAPACITY (MBH) | REMARKS |
| G-1 | 1" | BACK-UP GENERATOR | 583 | PROVIDE SHUT-OFF VALVE, DIRT LEG, STRAINER, REGULATOR, AND UNION. |
| IRH-1 TO IRH-6 | 1/2" | INFRARED HEATER | 125 | PROVIDE SHUT-OFF VALVE, DIRT LEG, STRAINER, AND UNION. |
| PW-1 | 1-1/2" | POWER WASHER | 400 | PROVIDE SHUT-OFF VALVE, DIRT LEG, STRAINER, AND UNION. |
| IWH-1 TO IWH-2 | | INSTANTANEOUS HEATER | 200 | PROVIDE SHUT-OFF VALVE, DIRT LEG, STRAINER, AND UNION. |
| | | | | |
| | | OM TOTAL CONNECTED INPUT CAPACITY (MBH) | 2133 | |

* VERIFY FINAL CONNECTION SIZE WITH MANUFACTURER

| FIXTURE & EQUIPMENT BRANCH SIZE SCHEDULE | | | | | |
|---|---|---|---|---|---|
| FIXTURE | DOMESTIC CW | DOMESTIC HW | OUTLET | VENT | REMARKS |
| AC-1 | -- | -- | 1-1/4" | -- | AIR COMPRESSOR. |
| BFP-1 | 2-1/2" | -- | -- | -- | DOMESTIC WATER BACKFLOW PREVENTER |
| BFP-2 | 1-1/2" | -- | -- | -- | POWER WASHER BACKFLOW PREVENTER |
| BFP-4 | 2" | -- | -- | -- | CHASSIS WASH BACKFLOW PREVENTER |
| ESEW-1 | 1-1/4" | 1-1/4" | 1-1/2" | -- | EMERGENCY SHOWER/EYE WASH |
| BF-1 | 1/2" | -- | 1-1/2" | 1-1/2" | ADA-COMPLIANT, SINGLE LEVEL, BOTTLE FILLER. |
| FD-1 | -- | -- | 3" | 1-1/2" | 5" DIA. STRAINER, 3/4" TRAP PRIMER CONNECTION. |
| FD-2 | -- | -- | 3" | 1-1/2" | 5" DIA. STRAINER, 3/4" TRAP PRIMER CONNECTION, WITH FUNNEL. |
| HB-1 | 3/4" | -- | -- | -- | HOSE BIBB, INSTALL @ 24" A.F.F. PROVIDE VACUUM BREAKER. |
| LAV-1 | 1/2" | 1/2" | 1-1/2" | 1-1/2" | ADA-COMPLIANT, WALL MOUNT. |
| LS-1 | 3/4" | 3/4" | 3" | 1-1/2" | LAUNDRY SINK. |
| SK-1 | 1/2" | 1/2" | 1-1/2" | 1-1/2" | S.S., DOUBLE BOWL, COUNTERTOP W/ FOOD WASTE GRINDER. |
| TP-1 | 1/2" | -- | -- | -- | PROVIDE 3/4" LINE TO EACH FLOOR DRAIN. |
| UR-1 | 3/4" | -- | 2" | 1-1/2" | WALL-MTD. FLUSH VALVE |
| WC-1 | 1" | -- | 4" | 2" | FLOOR-MTD. REAR OUTLET, FLUSH VALVE, ELONGATED BOWL, OPEN FRONT SEAT |
| WH-1 | 3/4" | -- | -- | -- | FREEZE-RESISTANT, WALL HYDRANT, MOUNT @ 24" A.F.G. INTEGRAL VACUUM BREAKER. |
| ET-1 | 3/4" | -- | -- | -- | POTABLE WATER EXPANSION TANK, 2 GALLON |
| EH-1 | 3/4" | 3/4" | -- | -- | 15 GALLON ELECTRIC WATER HEATER, AO SMITH MODEL DEL-15, ONE 2.5 KW ELEMENT, 10 GPH RECOVERY CAPACITY, 240/1/60 POWER. |
| IWH-1 | 1-1/4" | 1-1/4" | -- | -- | ULTRA-LOW NOX CONDENSING GAS FIRED INTANTANEOUS WATER HEATER. AO SMITH MODEL ATI-540H, 199 MBH, 6 GPM AT 60 DEG. RISE., MULTI-LINK CONTROLS. |
| IWH-2 | 1-1/4" | 1-1/4" | -- | -- | ULTRA-LOW NOX CONDENSING GAS FIRED INTANTANEOUS WATER HEATER. AO SMITH MODEL ATI-540H, 199 MBH,6 GPM AT 60 DEG. RISE., MULTI-LINK CONTROLS. |

GENERAL NOTE: REFER TO SPECIFICATIONS FOR LIST OF APPROVED MANUFACTURERS.

HOSE REEL EQUIPMENT

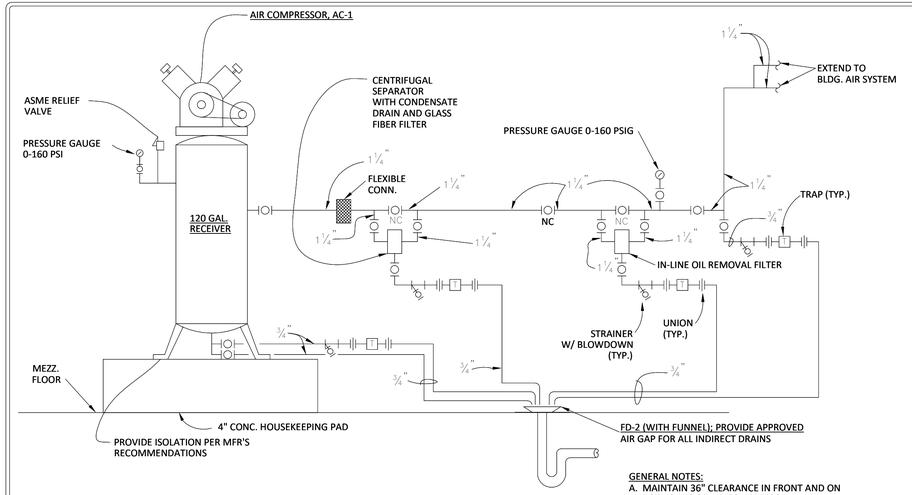
WHR-1: WATER HOSE REELS: REFER TO SECTION 11 11 00 FOR HOSE REEL SPECIFICATION.

AHR-1 : AIR HOSE REELS: REFER TO SECTION 11 11 00 FOR HOSE REEL SPECIFICATION.

PWHR-1: PRESSURE WASHER HOSE: REFER TO SECTION 11 11 10 FOR PRESSURE WASHER HOSE SPECIFICATION.

GENERAL NOTES:
- PROVIDE SHUT OFF VALVE ON THE VERTICAL PIPE DROP BEFORE THE HOSE REELS AND PRESSURE WASHER HOSE POINT OF CONNECTIONS.
- PROVIDE VACUUM BREAKER FOR HOSE REELS AND PRESSURE WASHER HOSE PER MANUFACTURER INSTALLATION REQUIREMENTS.

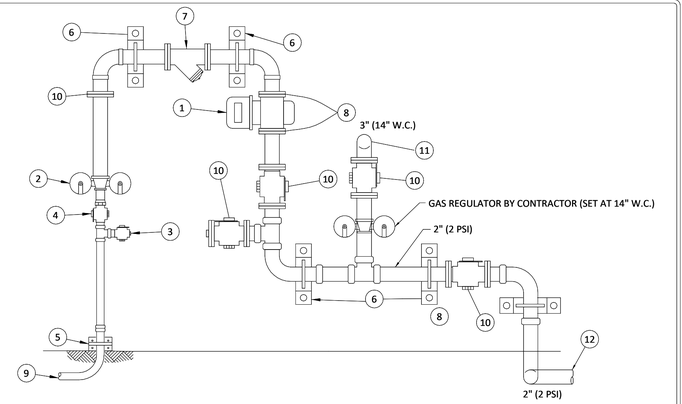
## 15 H.P. TWIN CYLINDER AIR COMPRESSOR AC-1 PIPING — 5




GENERAL NOTES:
A. MAINTAIN 36" CLEARANCE IN FRONT AND ON BOTH SIDES OF AIR COMPRESSOR.
B. PROVIDE DRIPS AT ALL LOW POINTS.

SCALE: NONE

## GAS METER AND REGULATOR RISER DIAGRAM — 6




GAS METER & REGULATOR RISER DIAGRAM GENERAL NOTES

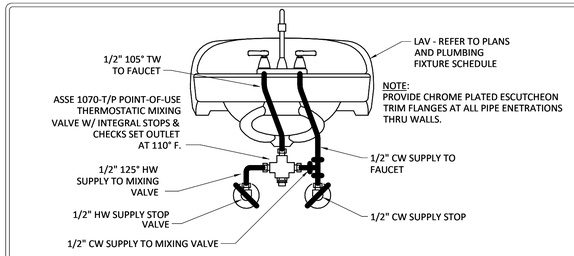
A. METER HEIGHT - MAXIMUM 3'-0" ABOVE FINISHED GRADE.
B. COORDINATE INSTALLATION WITH GAS COMPANY.
C. PAINT EXPOSED PIPING.

GAS METER & REGULATOR RISER DIAGRAM CODED NOTES

1. ROTARY METER PROVIDED BY GAS COMPANY
2. GAS REGULATOR PROVIDED BY GAS COMPANY (GAS COMPANY SET @ 2 PSI)
3. PROVIDE LOCKWING METER STOP WITH THREADED BODY.
4. PROVIDE LOCKWING METER STOP WITH INSULATED UNION.
5. PROVIDE WALL BRACKET.
6. PROVIDE METER SETTING SUPPORT BRACKET.
7. PROVIDE STRAINER WITH FLANGED BODY.
8. 150# FLAT-FACED FLANGE.
9. SITE GAS SERVICE (VERIFY SIZE AND PRESSURE WITH GAS COMPANY). SEE SITE PLAN FOR CONTINUATION.
10. PROVIDE LOCKWING METER STOP WITH FLAT-FACED FLANGE.
11. PROVIDE LOW PRESSURE (14" W.C.) HOUSE LINE TO INSIDE BUILDING. PROVIDE WATERTIGHT SEAL. SEE PLANS FOR CONTINUATION.
12. PROVIDE CAPPED UNDERGROUND LINE TO FUTURE GENERATOR.

SCALE: NONE

## TYPICAL LAVATORY PIPING CONNECTION — 7

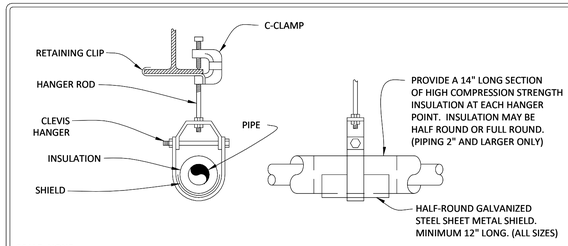



NOTE:
PROVIDE CHROME PLATED ESCUTCHEON TRIM FLANGES AT ALL PIPE ENETRATIONS THRU WALLS.

NOTE
THIS DETAIL ALSO APPLIES TO ALL LAVS AND THE KITCHENETTE SINK. SET OUTLET AT 105°F. REFER TO PLANS AND PLUMBING SCHEDULE.

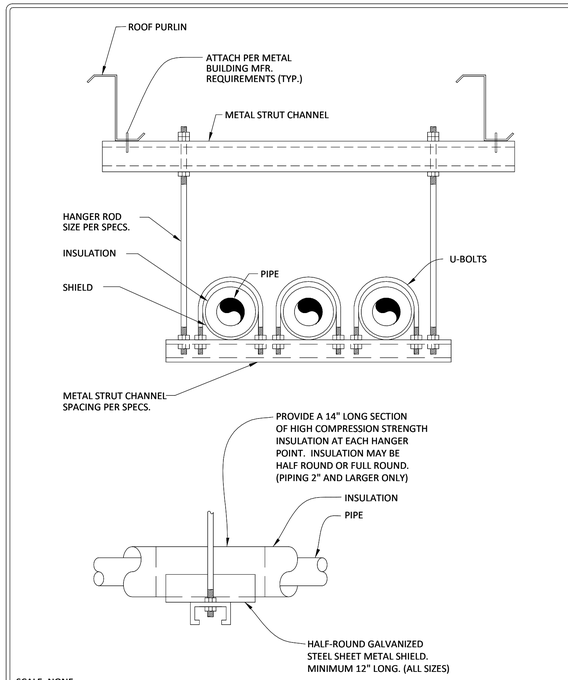
SCALE: NONE

## INDIVIDUAL PIPE HANGER DETAIL — 1



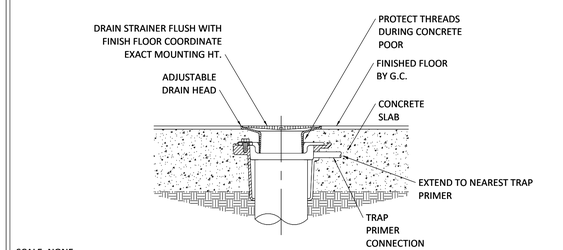

SCALE: NONE

## TRAPEZE PIPE HANGER DETAIL — 2



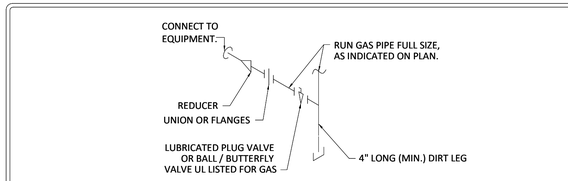

SCALE: NONE

## TYPICAL FLOOR DRAIN DETAIL — 3




SCALE: NONE

## TYPICAL GAS PIPING CONNECTION — 4

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Columbus, Ohio
43212

Dynamix Engineering
A VEREGY COMPANY
855 Grandview Avenue, 3rd Floor Columbus, OH 43215
Phone: (614) 443-1178 Fax: (614) 443-1594
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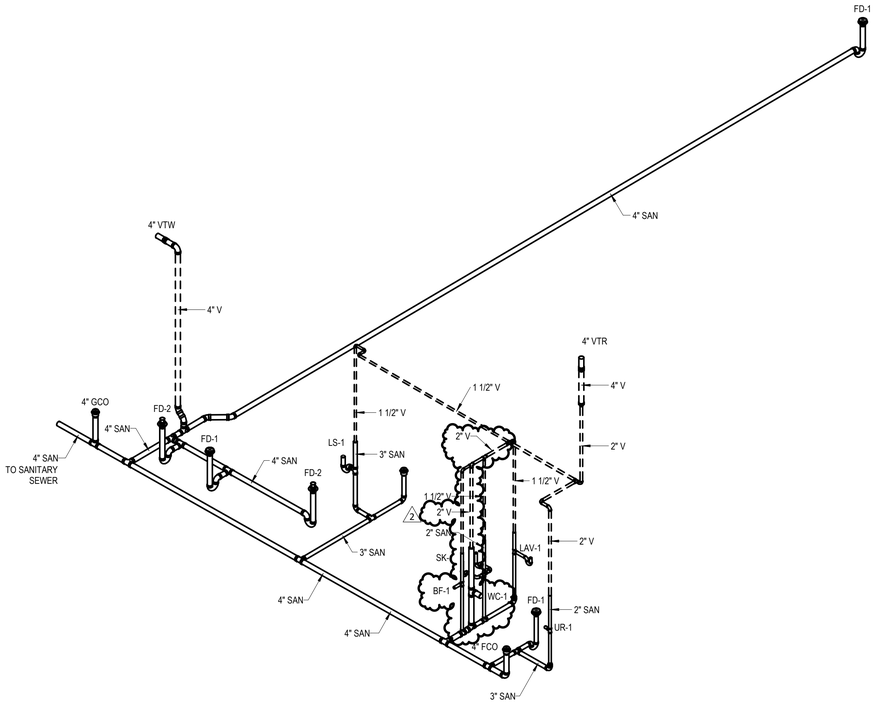
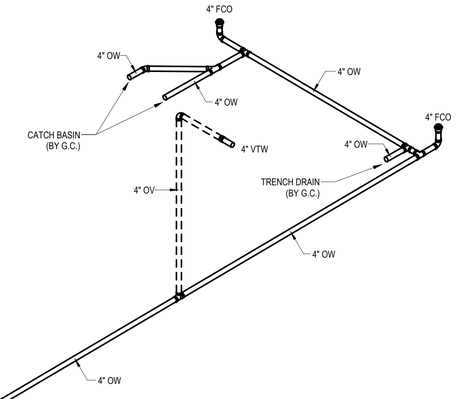
SHEET TITLE

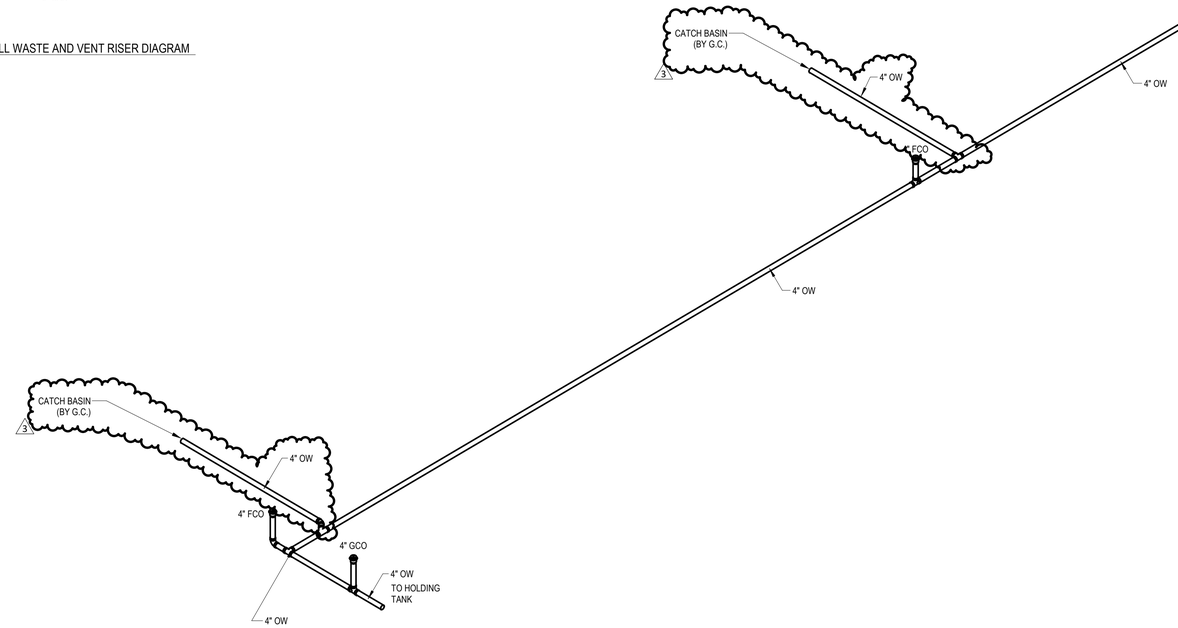
PLUMBING SCHEDULES & DETAILS

P601




1 P901 OVERALL WASTE AND VENT RISER DIAGRAM




2 P901 OVERALL OIL WASTE AND OIL VENT RISER DIAGRAM


JMSA ARCHITECTURE

Jerome M. Scott Architects
1020 Goodale Blvd
Columbus, Ohio
43212

Dynamix Engineering
A VEREGY COMPANY
855 Grandview Avenue, 3rd Floor Columbus, OH 43215
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SHEET TITLE

## PLUMBING STACKS

P901

## GENERAL HVAC SYMBOLS

- REVISION NUMBER - SHOWN ON PLANS
- POINT WHERE NEW CONNECTS TO EXISTING
- NUMBER OF DETAIL ON SHEET / NUMBER OF SHEET WHERE DETAIL APPEARS
- KEYNOTE
- CONTINUATION SYMBOL
- Room 10 — ROOM NAME AND NUMBER
- ITEM TO BE DEMOLISHED
- AREA NOT IN CONTRACT

## EQUIPMENT ABBREVIATIONS

| | | | |
|---|---|---|---|
| AC | AIR CONDITIONING UNIT | EWH | ELECTRIC WALL HEATER |
| ACC | AIR COOLED CONDENSER | FCU | FAN COIL UNIT |
| ACCU | AIR COOLING CONDENSING UNIT | FP | FIRE PUMP |
| AHU | AIR HANDLING UNIT | GI | GREASE INTERCEPTOR |
| AS | AIR SEPARATOR | GRV | GRAVITY ROOF VENTILATOR |
| B | BOILER | HWP | HEATING WATER PUMP |
| CH | CHILLER | HX | HEAT EXCHANGER |
| CT | COOLING TOWER | HRU | HEAT RECOVERY UNIT |
| CUH | CABINET UNIT HEATER | PRV | POWER ROOF VENTILATOR |
| CWP | CONDENSER WATER PUMP | RE | RETURN/EXHAUST FAN |
| CHWP | CHILLED WATER PUMP | RTU | ROOFTOP UNIT |
| DBP | DOMESTIC WATER BOOSTER PUMP | SEP | SEWAGE EJECTOR PUMP |
| DC | DUCT MOUNTED COIL | SF | SUPPLY FAN |
| DCP | DOMESTIC WATER CIRCULATING PUMP | SP | SUMP PUMP |
| EF | EXHAUST FAN | UH | UNIT HEATER |
| EDC | ELECTRIC DUCT COIL | WH | WATER HEATER |
| ET | EXPANSION TANK | | |

## ABBREVIATIONS

| | | | |
|---|---|---|---|
| Ø | ROUND | LVR | LOUVER |
| ABV | ABOVE | LWT | LEAVING WATER TEMPERATURE |
| AC | AIR CONDITIONING | M/A | MIXED AIR |
| AD | AREA DRAIN | MAX | MAXIMUM |
| ADD | ADDENDUM | MBH | ONE THOUSAND BTU PER HOUR |
| AFF | ABOVE FINISHED FLOOR | MCF | ONE THOUSAND CUBIC FEET |
| AFUE | ANNUAL FUEL UTILIZATION EFFICIENCY | MD | MOTORIZED DAMPER |
| ALT | ALTERNATE | MECH | MECHANICAL |
| AP | ACCESS PANEL | MFR | MANUFACTURER |
| ARCH | ARCHITECT/ARCHITECTURAL | MIN | MINIMUM |
| BFF | BELOW FINISHED FLOOR | MISC | MISCELLANEOUS |
| BLW | BELOW | MTR | MOTOR |
| BTU | BRITISH THERMAL UNITS | MU/A | MAKE-UP/AIR |
| BTUH | BRITISH THERMAL UNITS PER HOUR | NC | NOISE CRITERIA |
| CAP | CAPACITY | NC | NORMALLY CLOSED |
| CB | CATCH BASIN | NIC | NOT IN CONTRACT |
| CFM | CUBIC FEET PER MINUTE | NO | NUMBER |
| CLG | CEILING | NO | NORMALLY OPEN |
| CO | CLEAN OUT | NTS | NOT TO SCALE |
| CW | COLD WATER | O | OXYGEN |
| D | DEGREE | O/A | OUTSIDE AIR |
| DB | DRY BULB | ORD | OVERFLOW ROOF DRAIN |
| DIA | DIAMETER | PD | PRESSURE DROP |
| DN | DOWN | PIV | POST INDICATOR VALVE |
| DW | DISTILLED WATER | PLBG | PLUMBING |
| EA | EACH | PRESS | PRESSURE |
| EAT | ENTERING AIR TEMPERATURE | PRV | PRESSURE REDUCING VALVE |
| ELEC | ELECTRICAL | PSI | POUNDS PER SQUARE INCH |
| EQUIP | EQUIPMENT | PSIG | POUNDS PER SQUARE INCH GAUGE |
| EWC | ELECTRIC WATER COOLER | PWR | POWER |
| EWT | ENTERING WATER TEMPERATURE | R | DUCT RISER |
| E/A | EXHAUST AIR | R/A | RETURN AIR |
| EXIST | EXISTING | RCP | RADIANT CEILING PANEL |
| F | DEGREES FAHRENHEIT | RD | ROOF DRAIN |
| FCO | FLOOR CLEAN OUT | REC | RECESSED |
| FD | FLOOR DRAIN | RED | REDUCER |
| FD | FIRE DAMPER | RH | RELATIVE HUMIDITY |
| FDV | FIRE DEPARTMENT VALVE | RL/A | RELIEF AIR |
| FL | FLOOR | RM | ROOM |
| FO | FUEL OIL | RP | RADIANT PIPE |
| FOV | FUEL OIL VENT | RPM | REVOLUTIONS PER MINUTE |
| FOR | FUEL OIL RETURN | RTP | RADIANT TAIL PIPE |
| FOS | FUEL OIL SUPPLY | RW | RAIN WATER |
| FPM | FEET PER MINUTE | SF | SQUARE FOOT |
| FS | FLOOR SINK | S/A | SUPPLY AIR |
| FT | FOOT/FEET | SAN | SANITARY |
| FTR | FIN TUBE RADIATION | SF | SQUARE FOOT |
| GAL | GALLON | SD | SMOKE DAMPER |
| GC | GENERAL CONTRACTOR | SM | SURFACE MOUNT |
| GPM | GALLONS PER MINUTE | SP | STANDPIPE |
| GW | GREASE WASTE | SP | STATIC PRESSURE |
| HB | HOSE BIB | STM | STEAM |
| HP | HORSE POWER | T | THERMOSTAT |
| HTG | HEATING | TD | TEMPERATURE DROP |
| HTR | HEATER | TDR | TRENCH DRAIN |
| HW | HOT WATER | TEMP | TEMPERATURE |
| HYD | HYDRANT | TYP | TYPICAL |
| ID | INDIRECT | UG | UNDERGROUND |
| IN | INCH | VAC | VACUUM |
| INV | INVERT | V | VENT |
| LB | POUND | VAV | VARIABLE AIR VOLUME |
| LB/HR | POUNDS PER HOUR | VENT | VENTILATION |
| LAT | LEAVING AIR TEMPERATURE | VTR | VENT THROUGH ROOF |
| LP | LOW PRESSURE | W | WASTE |
| LPG | LIQUEFIED PETROLEUM GAS | WB | WET BULB |
| | | WCO | WALL CLEAN OUT |
| | | WH | WALL HYDRANT |

* NOTE *

ALL OF THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

## HVAC DUCT TYPES AND SYMBOLS

- 16"x8" — RECTANGULAR DUCT SIZE TAG (WIDTH x HEIGHT)
- 16"/8" — OVAL DUCT SIZE TAG (WIDTH / HEIGHT)
- 16"Ø — ROUND DUCT SIZE TAG (DIAMETER)
- (E) — EXISTING DUCT TAG
- DUCT BEING DEMOLISHED
- S/A — SUPPLY AIR
- S-O/A — CONDITIONED OUTSIDE AIR
- O/A — OUTSIDE AIR
- R/A — RETURN AIR
- T/A — TRANSFER AIR
- E/A — EXHAUST AIR
- L/A — RELIEF AIR
- GE/A — GREASE EXHAUST AIR
- SE/A — SMOKE EXHAUST AIR
- FLUE — EXHAUST GAS FLUE
- C/A — COMBUSTION AIR
- DROP — RECTANGULAR SUPPLY/OUTSIDE AIR DUCT RISE
- DROP — ROUND SUPPLY/OUTSIDE AIR DUCT RISE
- DROP — RECTANGULAR RETURN/TRANSFER AIR DUCT RISE
- DROP — ROUND RETURN/TRANSFER AIR DUCT RISE
- DROP — RECTANGULAR EXHAUST/RELIEF AIR DUCT RISE
- DROP — ROUND EXHAUST/RELIEF AIR DUCT RISE

**GRILLES, REGISTERS & DIFFUSERS TAG**

SUPPLY DIFFUSER: TYPE (SEE SCHEDULE) / S1-200 (x4) 8"Ø / CFM — TYPICAL QUANTITY — NECK SIZE

RETURN / EXHAUST GRILLE: R1-200 10"x6" / E1-200 10"x6"

**MECHANICAL EQUIPMENT TAGS**

- VAV-XX — Htg: 3.7 GPM — HEATING COIL FLOW — VAV BOX
- VAV-XX — 10" - 0" — BOTTOM OF EQUIPMENT ELEVATION
- (E)VAV-XX — EXISTING EQUIPMENT TO REMAIN
- VAV-XX — EQUIPMENT BY OTHERS (REFER TO OTHER DISCIPLINE FOR ADDITIONAL INFORMATION)
- RTU-XX — OPERATING WEIGHT NOT INCLUDING CURB — 505 lb
- RTU-XX — 3.0 ton — NOMINAL COOLING CAPACITY — ROOFTOP UNIT
- RTU-XX — FUEL INPUT GAS PIPE FLOW — 115000 Btu/h 115 CFH

**DATA DEVICE TAGS**

CONTROL SENSORS AND MONITORS:

| | | |
|---|---|---|
| CARBON DIOXIDE SENSOR | CO2 TS RTU-XX | TEMPERATURE SENSOR |
| CARBON MONOXIDE SENSOR | CO H VAV-XX | HUMIDITY SENSOR |
| NITROGEN DIOXIDE SENSOR | NO2 TH | TEMPERATURE & HUMIDITY SENSOR |
| ROOM PRESSURE MONITOR | RPM P | PRESSURE SENSOR |

(SYMBOL / EQUIPMENT ID)

MANUAL STATS AND INDICATORS (NO BAS INTEGRATION):

| | | |
|---|---|---|
| HUMIDISTAT | H T | THERMOSTAT (LINE OR LOW VOLTAGE - SEE SCHEDULES) |
| MANUAL SWITCH | MS PI | PRESSURE INDICATOR |

**DAMPER TAGS**

| | | | |
|---|---|---|---|
| FIRE DAMPER | F | B | MANUAL BALANCING DAMPER |
| SMOKE DAMPER | S | D | BACKDRAFT DAMPER |
| MOTORIZED DAMPER | M | C | COMBINATION FIRE/SMOKE DAMPER |

## HVAC PIPE TYPES AND SYMBOLS

- ABOVE GROUND PIPING
- 1/8" / 12" SLOPE — PIPE SLOPE TAG
- BELOW GROUND PIPING
- INVERT: -10' - 1" — PIPE INVERT ELEVATION TAG
- 2" — PIPE SIZE TAG (DIAMETER)
- (E) — EXISTING PIPE TAG
- PIPING BEING DEMOLISHED
- CWS — CHILLED WATER SUPPLY
- CWR — CHILLED WATER RETURN
- GCWS — GLYCOL CHILLED WATER SUPPLY
- GCWR — GLYCOL CHILLED WATER RETURN
- PCWS — PROCESS CHILLED WATER SUPPLY
- PCWR — PROCESS CHILLED WATER RETURN
- CBWS — CHILLED BEAM WATER SUPPLY
- CBWR — CHILLED BEAM WATER RETURN
- CS — CONDENSER WATER SUPPLY
- CR — CONDENSER WATER RETURN
- HPWS — HEAT PUMP WATER SUPPLY
- HPWR — HEAT PUMP WATER RETURN
- HWS — HEATING WATER SUPPLY
- HWR — HEATING WATER RETURN
- GHWS — GLYCOL HEATING WATER SUPPLY
- GHWR — GLYCOL HEATING WATER RETURN
- HTWS — HIGH TEMPERATURE WATER SUPPLY
- HTWR — HIGH TEMPERATURE WATER RETURN
- LPS-15 — LOWER PRESSURE STEAM
- LPC-15 — LOW PRESSURE CONDENSATE RETURN
- MPS-75 — MEDIUM PRESSURE STEAM
- MPC-75 — MEDIUM PRESSURE CONDENSATE RETURN
- HPS-100 — HIGH PRESSURE STEAM
- HPC-100 — HIGH PRESSURE CONDENSATE RETURN
- MPS-CL — CLEAN STEAM
- MPC-CL — CLEAN CONDENSATE RETURN
- BFWS — BOILER FEED WATER SUPPLY
- BFWR — BOILER FEED WATER RETURN
- CPD — CONDENSATE PUMP DISCHARGE
- BD — BLOW DOWN
- V — VENT
- MUW — MAKE-UP WATER
- CHEM — CHEMICAL FEED
- D — DRAIN
- REF-L — REFRIGERANT LIQUID
- REF-S — REFRIGERANT SUCTION
- REF-HG — REFRIGERANT HOT GAS

- SHUTOFF / ISOLATION VALVE
- BALL VALVE
- BUTTERFLY VALVE
- GLOBE VALVE
- GATE VALVE
- OS&Y VALVE
- PLUG VALVE
- NEEDLE VALVE
- TRIPLE DUTY VALVE
- TWO WAY CONTROL VALVE
- THREE WAY CONTROL VALVE
- STRAINER WITH VALVED BLOWDOWN
- CHECK VALVE
- PRESSURE REDUCING VALVE
- AUTOMATIC BALANCING VALVE
- MANUAL BALANCING VALVE
- COMBINATION BALANCE / SHUTOFF VALVE
- SAFETY VALVE / RELIEF VALVE
- FILL VALVE
- VB — VACUUM BREAKER
- STEAM TRAP
- STEAM TRAP ASSEMBLY
- FLEXIBLE CONNECTOR
- 3/4" NPT PETES PLUG
- UNION
- FLANGE
- PIPE CAP
- CONCENTRIC PIPE REDUCER
- ECCENTRIC PIPE REDUCER
- PIPE ANCHOR
- PIPE GUIDE
- PITCH DOWN
- DIRECTION OF FLOW
- PIPE TEE
- PIPE RISE
- PIPE DROP
- PIPE CONTINUATION

AIR VENTS:
- A - AUTOMATIC AIR VENT WITH SHUTOFF COCK, PIPE TO DRAIN
- M - MANUAL AIR VENT WITH SHUTOFF COCK
- T - THERMOSTATIC AIR VENT WITH SHUTOFF COCK

CONTROL SENSORS AND METERS:
- T - TEMPERATURE SENSOR
- P - PRESSURE SENSOR WITH SHUTOFF COCK, SNUBBER AND PIGTAIL REQUIRED FOR STEAM SERVICE
- DP - DIFFERENTIAL PRESSURE SENSOR
- FM - FLOWMETER
- FS - FLOW SWITCH SENSOR

MANUAL METERS AND GAUGES (NO BAS INTEGRATION):
- T - THERMOMETER
- P - PRESSURE GAUGE WITH SHUTOFF COCK, SNUBBER AND PIGTAIL REQUIRED FOR STEAM SERVICE
- FM - FLOWMETER, LOCAL READOUT ONLY

## HVAC GENERAL NOTES

A. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE HVAC SYSTEMS AS INDICATED ON THE DRAWINGS AND AS SPECIFIED.
B. ALL WORK SHALL BE INSTALLED ACCORDING TO THE LATEST LOCAL, STATE AND NATIONAL CODES. ALL DUCTWORK SHALL BE INSTALLED ACCORDING TO THE LATEST ASHRAE RECOMMENDATIONS AND SMACNA INSTALLATION MANUALS.
C. CONTRACT DOCUMENT DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
D. COORDINATE CONSTRUCTION OF ALL HVAC WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, PLUMBING, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
E. THE LOCATION AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
F. ALL ROOF MOUNTED EQUIPMENT CURBS FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED BY THE HVAC CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
G. OPENINGS THROUGH OUTSIDE WALL, LINTELS FOR LOUVERS, AND WEATHERTIGHT SETTING OF LOUVERS BY GENERAL CONTRACTOR. HVAC CONTRACTOR TO COORDINATE LOCATION WITH GENERAL CONTRACTOR.
H. ALL DUCTWORK, PIPING, AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES OR JOIST GIRDERS SHALL BE AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED. THE USE OF C-CLAMPS SHALL NOT BE PERMITTED.
I. ALL PIPING WORK AND DUCTWORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AND DUCTS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
J. CERTAIN ITEMS SUCH AS RISES AND DROPS IN DUCTWORK AND PIPING, ACCESS DOORS, VOLUME DAMPERS, VALVES, ETC., ARE INDICATED ON THE CONTRACT DOCUMENT DRAWINGS FOR CLARITY FOR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS.
K. ALL FINAL GAS CONNECTIONS TO HVAC EQUIPMENT SHALL BE BY PLUMBING CONTRACTOR.
L. ALL OPENINGS IN FIRE RATED WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED. PROVIDE FIRE, OR FIRE SMOKE DAMPERS AS REQUIRED. SEE SPECIFICATIONS FOR REQUIREMENTS.
M. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS, AND OTHER CONCEALED HVAC EQUIPMENT. ACCESS PANELS SHALL BE TURNED OVER TO GENERAL CONTRACTOR FOR INSTALLATION.
N. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT (UNLESS NOTED OTHERWISE) SHALL BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR.
O. CONCRETE HOUSEKEEPING PADS TO SUIT HVAC EQUIPMENT SHALL BE SIZED, LOCATED AND INSTALLED BY THE HVAC CONTRACTOR. MINIMUM CONCRETE PAD THICKNESS SHALL BE 4 INCHES FOR INTERIOR EQUIPMENT, 6 INCHES FOR EXTERIOR EQUIPMENT. PAD SHALL EXTEND BEYOND THE EQUIPMENT A MINIMUM OF 4 INCHES ON EACH SIDE, WITH BEVELED EDGES.
P. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.
Q. ALL TESTS SHALL BE COMPLETED BEFORE ANY HVAC EQUIPMENT INSULATION OR PIPING INSULATION IS APPLIED.
R. ANCHORS, ALIGNMENT GUIDES, EXPANSION LOOPS, EXPANSION JOINS, ETC. SHOWN ON THE DRAWINGS ARE FOR GENERAL REFERENCE. CONTRACTOR SHALL EVALUATE FINAL PIPING LAYOUTS AND EXPANSION REQUIREMENTS AND PROVIDE ALL NECESSARY ITEMS TO ACCOMMODATE PIPE EXPANSION IN THE SYSTEMS. ALL ASSOCIATED COSTS ARE TO BE INCLUDED IN THE CONTRACTOR'S BID. REFER TO SPECIFICATION 23 05 16 - EXPANSION FITTINGS AND LOOPS FOR HVAC PIPING FOR ADDITIONAL REQUIREMENTS.
S. PROVIDE INSULATED SUBBASES ON ALL THERMOSTATS/TEMPERATURE SENSORS LOCATED ON EXTERIOR WALLS.
T. ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.
U. UNLESS OTHERWISE NOTED, ALL DUCTWORK AND PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF STRUCTURE OR SLAB, WITH SPACE FOR INSULATION WHERE REQUIRED IN THE SPECIFICATIONS.
V. INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
W. FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE PLANS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
X. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
Y. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
Z. ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS.
AA. INLET DUCTWORK TO DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE. INLET DUCTWORK TO AIR TERMINAL BOXES SHALL BE SAME SIZE AS BOX INLET UNLESS NOTED OTHERWISE.
BB. PROVIDE 90 DEGREE SQUARE ELBOWS WITH DOUBLE RADIUS TURNING VANES UNLESS OTHERWISE INDICATED. ELBOWS IN WET PROCESS EXHAUST SHALL BE UNVANED SMOOTH RADIUS CONSTRUCTION WITH A RADIUS EQUAL TO 1-1/2 TIMES THE WIDTH OF THE DUCT. PROVIDE ACCESS DOORS UPSTREAM OF ALL ELBOWS WITH TURNING VANES.
CC. COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING, AND OTHER CEILING ITEMS AND MAKE MINOR DUCT MODIFICATIONS TO SUIT.
DD. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
EE. CAULK SPACE BETWEEN SLEEVES, DUCTS AND PIPES WHERE DUCTS AND PIPES PASS THROUGH WALLS. CAULKING TO BE AIRTIGHT.
FF. PROVIDE MINIMUM 4" FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS (SUPPLY, RETURN, AND EXHAUST) CONNECTED TO AIR HANDLING UNITS, FANS, AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.
GG. RUNS OF FLEXIBLE DUCT SHALL NOT EXCEED 5 FEET AND SHALL NOT BE USED FOR 90 DEGREE BENDS.
HH. "AUTO-CONTROL" DAMPERS (EXCEPT THOSE FURNISHED WITH AIR HANDLING UNITS) ARE TO BE FURNISHED BY THE BAS CONTRACTOR AND INSTALLED BY THE HVAC CONTRACTOR. ALL OTHER DAMPERS INCLUDING "MOTORIZED DAMPERS" ARE TO BE PROVIDED BY HVAC CONTRACTOR.
II. PROVIDE ACCESS DOORS IN DUCTWORK FOR ACCESS TO ALL SMOKE DETECTORS, FIRE DAMPERS, SMOKE DAMPERS, VOLUME DAMPERS, COILS AND OTHER ITEMS LOCATED IN THE DUCTWORK WHICH REQUIRE SERVICE AND/OR INSPECTION.
JJ. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
KK. ALL BALANCING VALVES AND BUTTERFLY VALVES SHALL BE PROVIDED WITH POSITION INDICATORS AND MAXIMUM ADJUSTABLE STOPS (MEMORY STOPS).
LL. PROVIDE CHAINWHEEL OPERATORS FOR ALL VALVES IN EQUIPMENT ROOMS MOUNTED GREATER THAN 7'-0" ABOVE FLOOR LEVEL; CHAIN SHALL EXTEND TO 7'-0" ABOVE FLOOR LEVEL.
MM. UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES, AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATIONS AND REPAIRS.
NN. PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS CONNECTED TO AND WITHIN 50 FEET OF ISOLATED EQUIPMENT THROUGHOUT MECHANICAL EQUIPMENT ROOMS.
OO. PROVIDE AN AIR VENT AT THE HIGH POINT OF EACH DROP IN THE HEATING WATER, CHILLED WATER, AND OTHER CLOSED WATER PIPING SYSTEMS. ALL PIPING SHALL GRADE TO LOW POINTS. PROVIDE HOSE END DRAIN VALVES AT THE BOTTOM OF ALL RISERS AND LOW POINTS.
PP. ALL AIR CONDITIONING CONDENSATE DRAIN LINES FROM EACH AIR HANDLING UNIT SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET, WITH P-TRAP, AND PIPED TO NEAREST DRAIN. SEE DETAILS SHOWN ON THE DRAWINGS FOR DEPTH OF CONDENSATE TRAP.
QQ. MAINTAIN A MINIMUM OF 3'-0" OF GROUND COVER OVER ALL UNDERGROUND HVAC PIPING.

## HVAC SHEET INDEX



| | |
|---|---|
| H000 | HVAC LEGENDS |
| H101 | FIRST FLOOR HVAC PLAN |
| H500 | HVAC DETAILS |
| H600 | HVAC SCHEDULES |




JMSA ARCHITECTURE

Jerome M. Scott Architects
1020 Goodale Blvd
Columbus, Ohio
43212

Dynamix Engineering
A VEREGY COMPANY
855 Grandview Avenue, 3rd Floor Columbus, OH 43215
Phone: (614) 443-1178 Fax: (614) 443-1594
Email: dynamix@dynamix-ltd.com
DEL #21-179


DOUGLAS L. SMITH — 67019 — REGISTERED PROFESSIONAL ENGINEER

DOT-200023 ODOT - EATON OUTPOST

CONSTRUCTION DOCUMENTS

5656 US-127 Eaton, Ohio 45320

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 3 | 03/11/22 | Revision 3 |
| 2 | 03/11/22 | Revision 2 / Conformance Set |
| 1 | 12/17/21 | Revision 1 Permit / Bid Set |
| | 12/10/21 | Bid Set |
| | 11/12/21 | Permit Set |
| | | |

PROJECT NO: **DOT-200023**
DATE: **12/17/2021**
DRAWN BY: **DEL**


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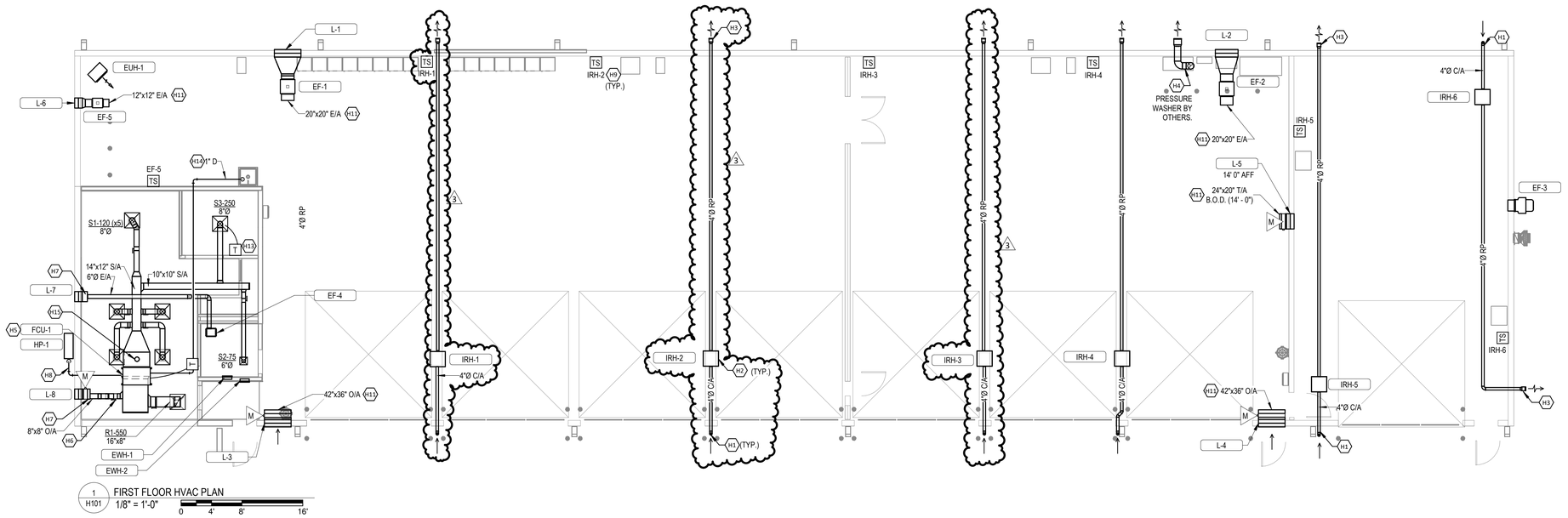
SHEET TITLE

HVAC LEGENDS

H000

| PLAN NOTES | |
|---|---|
| # | NOTE |
| H1 | PROVIDE COMBUSTION AIR INTAKE PER MANUFACTURER'S RECOMMENDATION. TERMINATE AT EXTERIOR OF BUILDING WITH 90 DEGREE ELBOW DN. PROVIDE BIRD SCREEN OVER OPENING. |
| H2 | INFRARED HEATER TYPICAL SERVING VEHICLE STORAGE AREA. PROVIDE FLUE PIPING AND WALL VENT CAP ON OPPOSITE EXTERIOR WALL. COORDINATE LOCATION OF HEATERS AND EQUIPMENT WITH BUILDING STRUCTURE. |
| H3 | WALL EXHAUST VENT CAP WITH BIRD SCREEN TO BE PROVIDED BY RADIANT HEATER MANUFACTURER. |
| H4 | 10" TYPE B FLUE VENT FROM POWER WASHER VENTED DRAFT DIVERTER HOOD. CONTRACTOR TO PROVIDE MOTORIZED DRAFT INDUCER, TJERNLUND MODEL HS4, 115V /60HZ/ 1/3HP, COMPLETE WITH TJERNLUND FAN PROVING SWITCH PS1505 AND UNIVERSAL INTERLOCK CONTROL UC-1 OR ENGINEERED APPROVED EQUAL BY FANTECH OR DAYTON. SECURE FLUE PIPE TO WALL AND STRUCTURE. TERMINATE THRU SIDEWALL VENT OUTLET VH1-10 OR SIMILAR PER SPECIFICATIONS. CONTRACTOR TO VERIFY SIZE AND BURNER INTERLOCKS WITH POWER WASHER REQUIREMENTS PRIOR TO FABRICATION AND INSTALLATION. IGNITION SOURCE MUST BE ELEVATED AT LEAST 18" ABOVE GARAGE FLOOR. PROVIDE 24VAC WIRING FROM POWER WASHER BURNER CONTACTS TO POWERED FLUE DAMPER. |
| H5 | CONFIGURE FILTER BOX ON FAN COIL TO HAVE REAR INLET AND CONNECT FULL SIZE R/A DUCTWORK TO INLET. |
| H6 | BALANCE FCU-1 OUTSIDE AIR CONNECTION TO 200 CFM. |
| H7 | CONNECT DUCTWORK BRANCH TO FULL SIZE PLENUM EXTENDING FROM LOUVER AS SHOWN. |
| H8 | EXTEND REFRIGERANT PIPING BACK TO HP-1. REFRIGERANT PIPING SHOWN AS SINGLE LINE FOR CLARITY AND SCHEMATIC PURPOSES. REFER TO SCHEDULES AND MANUFACTURER FOR EXACT QUANTITY, SIZE, AND ROUTING OF REFRIGERANT PIPING. |
| H9 | PROVIDE NEMA4 THERMOSTATS FOR RADIANT GAS HEATER SYSTEM. |
| H11 | PROVIDE WIRE MESH COVER AT OPENING. |
| H12 | PROVIDE ALUMINUM DUCTWORK FOR EXHAUST DUCT SERVING WASHBAY. |
| H13 | PROVIDE VAV DIFFUSER WALL MOUNTED THERMOSTAT. MOUNT AT SAME HEIGHT AS WALL LIGHT SWITCH. |
| H14 | EXTEND 1" CONDENSATE DRAIN LINE FROM FCU-1 AND INDIRECT TO MOP BASIN. |
| H15 | PROVIDE RGF HALO-LED IN-DUCT AIR PURIFIER IN SUPPLY MAIN OF FCU-1. INSTALL PER MANUFACTURER'S RECOMMENDATION. CONNECT TO 24V POWER CONNECTION, SEPERATE FROM FCU-1. PROVIDE AIRFLOW SWITCH AND INTERLOCK TO LED UV-C LIGHT CONTROL. |

GENERAL NOTE: COORDINATE EXACT LOCATIONS & HEIGHTS FOR ALL EXTERIOR LOUVERS WITH ARCHITECTURE PLANS.





JMSA ARCHITECTURE

Jerome M. Scott Architects
1020 Goodale Blvd
Columbus, Ohio
43212

Dynamix Engineering
A VEREGY COMPANY
855 Grandview Avenue, 3rd Floor Columbus, OH 43215
Phone: (614) 443-1178 Fax: (614) 443-1594
Email: dynamix@dynamix-ltd.com
DEL #21-179


DOUGLAS E. SMITH
REGISTERED
PROFESSIONAL ENGINEER

DOT-200023 ODOT - EATON OUTPOST

CONSTRUCTION DOCUMENTS

5656 US-127 Eaton, Ohio 45320

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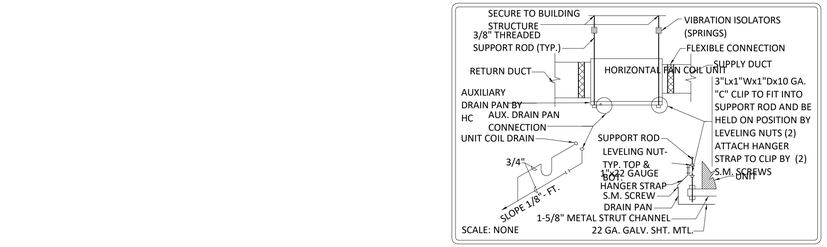
SHEET TITLE

FIRST FLOOR HVAC PLAN

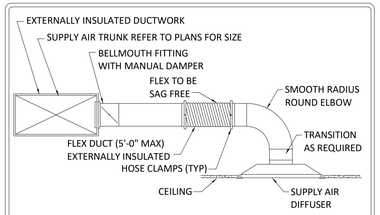
H101

## FAN COIL UNIT INSTALLATION — 1



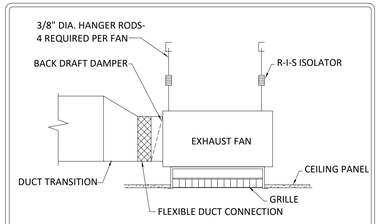

SCALE: NONE

## CEILING DIFFUSER — 2



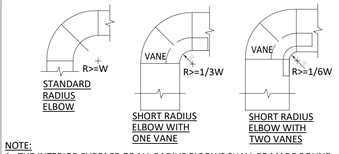

SCALE: NONE

## CEILING FAN — 3




SCALE: NONE

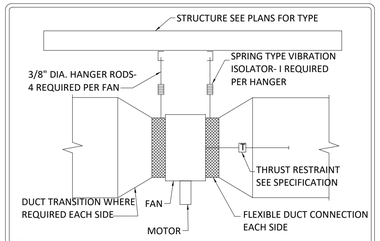
## DUCTWORK RADIUS ELBOWS — 5




NOTE:
1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS SHOWN ON FLOOR PLANS MAY BE MADE SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

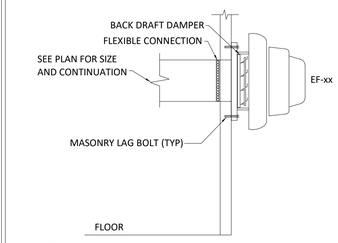
SCALE: NONE

## INLINE FAN — 6



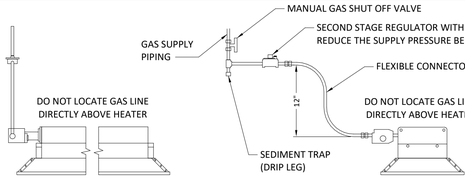

SCALE: NONE

## SIDE WALL VENTILATOR — 7




SCALE: NONE

## INFRARED RADIANT HEATER — 8

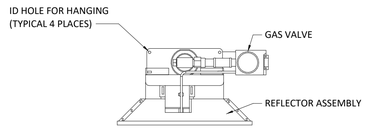



SIDE VIEW

(REFER TO PLANS FOR TOTAL LENGTH OF RADIANT HEATER)

TYPICAL GAS CONNECTIONS

END VIEW




END VIEW

SCALE: NONE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1020 Goodale Blvd
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SHEET TITLE

HVAC DETAILS

H500

## DUCT CONSTRUCTION/SEALING

| DUCT SYSTEM | SMACNA | | NOTES |
|---|---|---|---|
| | SP CONST | SEAL CL | |
| MEDIUM VELOCITY SUPPLY | +3" | A | - |
| LOW VELOCITY SUPPLY | +1" | A | - |
| RETURN / RELIEF | -1" | A | - |
| GENERAL EXHAUST | -0.5" | A | - |
| OUTSIDE AIR | -0.5" | A | - |

NOTES
1.-

## AIR DISTRIBUTION DEVICES

OWBE - OFF WHITE BAKED ENAMEL FINISH, ECL - ETCHED CLEAR LACQUER FINISH

ALL EXPOSED AIR DEVICES SHALL HAVE A BACKED ENAMEL FINISH, COLOR TO BE SELECTED BY ARCHITECT.

| TAG | DESCRIPTION | MODULE SIZE | MOUNTING TYPE | | CONSTRUCTION TYPE | | FINISH | | | CATALOG NUMBER | | REQ'D ACCY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LAY-IN | SURFACE | ALUM. | STEEL | O.W.B.E. | E.C.L. | BY ARCH. | MFR** | MODEL | |
| S1 | CEILING SUPPLY DIFFUSER | 24x24 | ○ | | | ○ | ○ | | | PRICE | SPD | 1 |
| S2 | CEILING SUPPLY DIFFUSER | 12x12 | ○ | | | ○ | ○ | | | PRICE | SPD | 1 |
| S3 | VAV DIFFUSER | 24x24 | ○ | | | ○ | ○ | | | PRICE | PPD | 1,2 |
| R1 | FIXED BLADE RETURN GRILLE | 24x24 | ○ | | | ○ | ○ | | | PRICE | 630 | 1 |

REQ'D ACCESSORIES:
1.- COORDINATE MOUNTING WITH ARCHITECTURAL CEILING PLANS. WHERE REQUIRED, PROVIDE SURFACE MOUNTING FRAME FOR LAY-IN FIXTURE.
2.- PROVIDE WITH WALL MOUNTED THERMOSTAT.
3.- PROVIDE WITH NECK MOUNTED OPPOSED BLADE DAMPER.
4.- PROVIDE WITH TAMPER RESISTANT SCREWS.

** - REFER TO SPECIFICATIONS FOR LIST OF APPROVED MANUFACTURERS

## ELECTRIC HEATING UNITS

- VERIFY/COORDINATE CABINET DIMENSIONS MOUNTING AND RECESS REQUIREMENTS WITH ARCHITECTURAL DWGS PRIOR TO ORDERING
- LINTELS FOR FULL & SEMI-RECESSED UNIT WALL OPENING PROVIDED BY GTC
- RECESSED UNITS TO HAVE FOUR (4) SIDE OVER LAP UNLESS OTHERWISE NOTED

| TAG | DESCRIPTION | SERVICE | CFM | HEATING | | | ELEC SERVICE | | | MFR** | MODEL | REQ'D ACCESS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MBH | KW (MIN) | KW (MAX) | AMP | VOLT | PHASE | | | |
| EWH-1 | HD ELECTRIC WALL HEATER | RR | - | 5 | 1.5 | 1.5 | 12.5 | 120 | 1 | QMARK | AWH3150F | 1, 3, 4 |
| EWH-2 | HD ELECTRIC WALL HEATER | VESTIBULE | - | 5 | 1.5 | 1.5 | 12.5 | 120 | 1 | QMARK | AWH3150F | 1, 3, 4 |
| EUH-1 | SUSPENDED HORIZ. PRO. | MEP AREA | 400 | 17.1 | 5 | 5 | 20.8 | 240 | 1 | RAYWALL | H1HUH05003 | 1, 6-8 |

REQ'D ACCESS
1. ARCH TO SELECT FINISH
2. SEMI-RECESSED MOUNTING
3. FULLY RECESSED MOUNTING
4. PROVIDE INTEGRAL DISCONNECT SWITCH.
5. CONVERT UNIT IN FIELD TO WATTAGE LISTED.
6. PROVIDE DISCONNECT SWITCH
7. PROVIDE UNIT MOUNTED THERMOSTAT
8. PROVIDE VIBRATION ISOLATION SPRINGS FOR SUSPENDED UNIT HEATER

** - REFER TO SPECIFICATIONS FOR LIST OF APPROVED MANUFACTURERS

## OUTDOOR HEAT PUMP UNIT

- DISCONNECT BY ELECTRICAL CONTRACTOR
- HEATING CAPACITY BASED ON INDOOR CONDITIONS OF 68.0°F DB AND OUTDOOR CONDITIONS OF 0°F DB / 0°F WB
- HEAT PUMP UNITS WITH HEAT RECOVERY SHALL PROVIDE SIMULTANEOUS COOLING AND HEATING
- COOLING CAPACITY BASED ON INDOOR CONDITIONS OF 80.0°F DB / 67.0°F WB AND OUTDOOR CONDITIONS OF 95°F DB & 75°F WB

| TAG | UNITS SERVED | REFRIG LINE SIZES (TOTAL SYSTEM) | | CAPACITY MBH (TOTAL SYSTEM) | | ELECTRICAL DATA | | | | DIMENSION | MODEL MITSUBISHI** | REQ'D ACCESS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GAS | LIQUID | CLG CAP MIN | HTG CAP MIN | VOLTS | PHASE | MCA | MOCP | | | |
| HP-1 | FC-1 | 5/8" | 3/8" | 33.28 | 35.7 | 230 | 1 | 26 | 40 | 53"H x 42"W x 14" L | TRUZH0361KA00NA | ALL |

REQ'D ACCESS
1. - PROVIDE HOUSEKEEPING PAD TO MOUNT OUTDOOR HEAT PUMP UNIT ON GRADE.
2. - REFRIGERATION SYSTEM CONTROLS INCLUDING CONDENSER FAN, COMPRESSOR CONTRACTORS, EVAPORATOR FREEZE THERMOSTAT, WINTER START CONTROL KIT.
3. - SOUND LEVELS REQUIREMENTS: SOUND PRESSURE 63 dBA MAX. AND SOUND POWER LEVEL 82 dBA MAX.
4. - PROVIDE SNOW HOOD AND DAMPER KIT.

** - REFER TO SPECIFICATIONS FOR LIST OF APPROVED MANUFACTURERS

## INDOOR FAN COIL UNIT SCHEDULE

- HEATING CAPACITY BASED ON INDOOR CONDITIONS OF 70.0°F DB
- COOLING CAPACITY BASED ON INDOOR CONDITIONS OF 80.0°F DB / 67.0°F WB AND OUTDOOR CONDITIONS OF 95.0°F DB / 75°F WB

| TAG | LOCATION | MITSUBISHI** MODEL | MIN. CAPACITY(MBH) | | | SUPPLY MIN (CFM) | O/A (CFM) | ELECTRICAL DATA | | | | RUNOUT SIZE ( LIQ. - GAS.) | REQ'D ACCESS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | TOT. CLG | SEN. CLG | HTG. | | | VOLT | PHASE | MCA | MOCP | | |
| FCU-1 | CONFERENCE ROOM | TPEADA0361AA70A | 33.28 | 24.1 | 35.7 | 925 | 200 | 230 | 1 | * | * | 3/8" - 5/8" | ALL |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - |

REQ'D ACCESS.
1. ALL TEMPERATURE SENSORS AND FC CONTROLS SHALL BE PROVIDED BY THE UNIT MANUFACTURER.
2. DIRECT EXPANSION COIL PACKAGE WITH FACTORY MOUNTED THERMAL EXPANSION VALVE AND EQUALIZING TUBE.
3. PROVIDE (1) SOLENOID VALVE KIT PER DX FAN COIL. WASHABLE FILTERS. UL LISTED. CONDENSATE INTEGRAL TO UNIT.
4. PROVIDE RETURN AIR FILTER BOX WITH MERV-13 FILTER.
5. INTEGRAL CONDENSATE PUMP.

*INDOOR UNIT IS POWERED FROM OUTDOOR UNIT

** - REFER TO SPECIFICATIONS FOR LIST OF APPROVED MANUFACTURERS

## EXHAUST FAN SCHEDULE

FAN TYPES:
PRV - POWER ROOF VENTILATOR
IL - INLINE CENTRIFUGAL
ILD - INLINE DUCT BLOWER
CE - CEILING MOUNTED EXHAUST
US - UTILITY SET
SWV - SIDEWALL VENTILATOR
PB - PRESSURE BLOWER
UBE - UP BLAST EXHAUSTER
PF - PLENUM FAN
SWP - SIDEWALL PROPELLER
HPRE - HOODED PROPELLER ROOF EXHAUSTER

| TAG | TYPE | SERVICE / LOCATION | CFM | ESP (IN) | MAX SONES | WHEEL DIA(IN) | RPM | MOTOR DATA | | | MFR ** | MODEL | FAN CONTROL | REQ'D ACCY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | HP | VOLTAGE | PHASE | | | | |
| EF-1 | IL | VEHICLE STORAGE | 3,500 | 0.5 | 25 | 14.625 | 1725 | 1.5 | 208 | 3 | GREENHECK | BSQ-140-15 | 20 | 1,5,8,11 |
| EF-2 | IL | VEHICLE STORAGE | 3,500 | 0.5 | 25 | 14.625 | 1725 | 1.5 | 208 | 3 | GREENHECK | BSQ-140-15 | 20 | 1,5,8,11 |
| EF-3 | UBE | WASH BAY | 1,000 | 0.5 | 9.6 | 11.125 | 1725 | 0.25 | 120 | 1 | GREENHECK | CUBE-100-4 | 21 | 1-4,11 |
| EF-4 | CE | RESTROOM | 150 | 0.4 | 4.4 | 7.94 | 1050 | 0.17 | 120 | 1 | GREENHECK | SP-B150 | 22 | 1,2,8,11 |
| EF-5 | IL | MECHANICAL AREA | 400 | 0.5 | 10.9 | 11.19 | 1725 | 0.25 | 120 | 1 | GREENHECK | BSQ-80-4 | 23 | 1,5,8,11 |

REQ'D ACCY:
1.- STANDARD DISCONNECT, FACTORY MOUNTED & WIRED
2.- BACKDRAFT DAMPER
3.- ALUMINUM CONSTRUCTION
4.- PROVIDE WALL BRACKET SUPPORT & MOUNTING FLANGE
5.- STANDARD FINISH, COLOR BY ARCHITECT
6.- SPUN ALUMINUM W/ALUMINUM BIRDSCREEN.
7.- AIR DRIED EXPOXY FINISH - ENTIRE FAN INCL ACC
8.- R-I-S VIBRATION ISOLATION HANGERS
9.- ALUM. CANTED ROOF CURB W/INSULATION 18" H & W/WOOD NAILER
10.- ALUMINUM STEEL CAP & BOLTED INSPECTION DOOR.
11.- SPEED CONTROLLER.
12.- ALUMINUM BIRDSCREEN
13.- FACTORY MOUNTED & WIRED DISCONNECT: CLASS I, DIV I CIRCUITRY, MOUNTED EXTERNALLY IN NEMA 3R OUTDOOR ENCLOSURE.
14.- SIDEWALL MOUNTED W/WEATHERHOOD & EXPLOSION RESISTANT, AMCA SPARK PROOF B FAN.
15.- THREADED PIPE DRAIN CONNECTION.
16.- WEATHERHOOD.
17.- SPARK RESISTANT CONSTRUCTION.
18.- FACTORY MOUNTED & WIRED DISCONNECT

FAN CONTROL BY EC:
20.- HAND/OFF/AUTO SWITCH INTERLOCK TO GAS DETECTION SYSTEM
21.- MANUAL SWITCH
22.- INTERLOCK WITH LIGHTING
23.- WALL MOUNTED THERMOSTAT.

** - REFER TO SPECIFICATIONS FOR LIST OF APPROVED MANUFACTURERS

## INFRARED HEATER SCHEDULE

| TAG | SERVES | GAS INPUT BURNER | RADIANT LENGTH FT | HEAT EXCHANGER | | ELECTRICAL DATA | | | | GAS SIZE | MFR** | MODEL | REQ'D ACCESS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | RADIANT | TAILPIPE | VOLT | PHASE | HZ | AMPS | | | | |
| IRH-1 | VEHICLE STORAGE | 125 MBH | 40 MAX | 4" DIA. | 4" DIA. | 120 | 1 | 60 | 1 | 1/2" | ROBERTS GORDON | CTH2V-125-40 | 1, 2, 3 |
| IRH-2 | VEHICLE STORAGE | 125 MBH | 40 MAX | 4" DIA. | 4" DIA. | 120 | 1 | 60 | 1 | 1/2" | ROBERTS GORDON | CTH2V-125-40 | 1, 2, 3 |
| IRH-3 | VEHICLE STORAGE | 125 MBH | 40 MAX | 4" DIA. | 4" DIA. | 120 | 1 | 60 | 1 | 1/2" | ROBERTS GORDON | CTH2V-125-40 | 1, 2, 3 |
| IRH-4 | VEHICLE STORAGE | 125 MBH | 40 MAX | 4" DIA. | 4" DIA. | 120 | 1 | 60 | 1 | 1/2" | ROBERTS GORDON | CTH2V-125-40 | 1, 2, 3 |
| IRH-5 | WASH BAY | 125 MBH | 40 MAX | 4" DIA. | 4" DIA. | 120 | 1 | 60 | 1 | 1/2" | ROBERTS GORDON | CTH2V-125-40 | ALL |
| IRH-6 | WASH BAY | 125 MBH | 40 MAX | 4" DIA. | 4" DIA. | 120 | 1 | 60 | 1 | 1/2" | ROBERTS GORDON | CTH2V-125-40 | ALL |

REQ'D ACCESS:
1.- PROVIDE IRH BURNERS WITH DIRECT SPARK ELECTRONIC IGNITION CONTROL, 120V, 1.3 AMP CORD WITH THREE PRONG MOLDED PLUG.
2.- PROVIDE WALL VENT CAP FOR OUTSIDE AIR INTAKE.
3.- PROVIDE REFLECTOR & SHIELD ASSEMBLIES AS NECESSARY. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
4.- PROVIDE WATER RESISTANT BURNER AND EQUIPMENT IN WASH BAY.

** - REFER TO SPECIFICATIONS FOR LIST OF APPROVED MANUFACTURERS

## LOUVER SCHEDULE

| TAG | TYPE | SERVICE | SIZE(IN) | | | AIR FLOW (CFM) | PD (IN) | VELOCITY (FPM) | FREE AREA (FT^2) | MFR** | MODEL | REQ'D ACCESS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DP | W | H | | | | | | | |
| L-1 | EXHAUST | EF-1 | 6 | 42 | 36 | 3,500 | 0.05 | 600 | 5.87 | GREENHECK | ESD-635 | 1 |
| L-2 | EXHAUST | EF-2 | 6 | 42 | 36 | 3,500 | 0.05 | 600 | 5.87 | GREENHECK | ESD-635 | 1 |
| L-3 | INTAKE | VEHICLE STORAGE, EF-1 | 6 | 42 | 36 | 3,500 | 0.05 | 600 | 5.87 | GREENHECK | ESD-635 | 1,2 |
| L-4 | INTAKE | VEHICLE STORAGE, EF-2 | 6 | 42 | 36 | 3,500 | 0.05 | 600 | 5.87 | GREENHECK | ESD-635 | 1,2 |
| L-5 | TRANSFER | WASH BAY, EF-3 | 6 | 24 | 20 | 1,000 | 0.08 | 738 | 1.37 | GREENHECK | FDS-602 | 2,4 |
| L-6 | EXHAUST | EF-5 | 6 | 16 | 16 | 400 | 0.07 | 707 | 0.57 | GREENHECK | ESD-635 | 1 |
| L-7 | EXHAUST | EF-4 | 6 | 16 | 16 | 240 | 0.02 | 424 | 0.57 | GREENHECK | ESD-635 | 1 |
| L-8 | INTAKE | FCU-1 | 6 | 16 | 16 | 200 | 0.02 | 353 | 0.57 | GREENHECK | ESD-635 | 1,3 |

NOTES
1.- INCLUDE BIRD SCREEN. BAKED ENAMEL FINISH AND COLOR BY ARCHITECT.
2.- INCLUDE 120 VOLT, MOTOR OPERATED DAMPER TO BE INTERLOCKED WITH CORRESPONDING EXHAUST FAN.
3.- INCLUDE 120 VOLT, MOTOR OPERATED DAMPER TO BE INTERLOCKED WITH FCU-1.
4.- STAINLESS STEEL CONSTRUCTION.

** - REFER TO SPECIFICATIONS FOR LIST OF APPROVED MANUFACTURERS


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43212

Dynamix Engineering
A VEREGY COMPANY
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SHEET TITLE

HVAC SCHEDULES

H600

## ELECTRICAL SYMBOLS

| SYMBOL | DESCRIPTION |
|---|---|
| | SURFACE LIGHT (TYPE DENOTED) |
| | RECESSED LIGHT (TYPE DENOTED) |
| | POLE MOUNTED LIGHT (TYPE DENOTED) |
| | SURFACE LINEAR LIGHT (TYPE DENOTED) |
| | SUSPENDED OR PENDANT LIGHT (TYPE DENOTED) |
| | RECESSED LINEAR LIGHT (TYPE DENOTED) |
| | STRIP LIGHT (TYPE DENOTED) |
| | TRACK AND TRACK LIGHT (TYPES DENOTED) |
| | EMERGENCY BATTERY LIGHT (TYPE DENOTED) |
| | EXIT SIGN (TYPE DENOTED) |
| | LIGHT FIXTURE ON (EM) LIFE SAFETY BRANCH |
| | LIGHT FIXTURE ON (EM) CRITICAL BRANCH |
| S | SINGLE POLE SW. (46" MH, TYPICAL) |
| S3 | 3-WAY SW. |
| S4 | 4-WAY SW. |
| SK | KEYED SW. |
| SD | LOW VOLTAGE DIMMER SWITCH |
| | PUSH BUTTON |
| | SINGLE RECEPT. |
| | DUPLEX RECEPT. (18" MH UNO) |
| | SPLIT DUPLEX RECEPT. |
| | QUADRAPLEX RECEPT. |
| | FLOOR RECEPT. (DUPLEX SHOWN) |
| | RECEPT ON CORD REEL (DUPLEX SHOWN) |
| | JUNCTION BOX |

| SYMBOL | DESCRIPTION |
|---|---|
| | SPECIAL RECEPT. OR CONN. (SEE SCHEDULE) |
| | CIRCUIT BREAKER PANEL |
| | TRANSFORMER (TYPE DENOTED) |
| XX-1 | MOTOR (SEE SCHEDULE) |
| | SAFETY DISC. SW. (NON-FUSED) |
| | SAFETY DISC. SW. (FUSED) |
| OS | CEILING DUAL TECH OCCUPANCY SENSOR |
| PC | CEILING PHOTOCELL |
| | TIME CONTROL SWITCH (TIME SWITCH) |
| | HALFTONE SYMBOL INDICATES EXISTING |
| | DASHED SYMBOL INDICATES REMOVED |
| | SWITCHED CIRCUIT |
| | UNSWITCHED CIRCUIT |
| | CIRCUIT HOMERUN |
| | UNDERGROUND |

RECEPT ACLE SUBSCRIPTS:

| | |
|---|---|
| AV | AV RECEPTACLE. |
| CM | CEILING MTD |
| GFI | GROUND FAULT INTERRUPTER SMA. |
| PROJ | PROJECTOR. SEE TECH DWGS FOR LOCATION AND MH. |
| T | TAMPER RESISTANCE |
| TO | TEACHERS RECEPTACLE. |
| TV | TV RECEPTACLE, SEE TECH DWGS FOR LOCATION AND MH. |
| USB | COMBINATION DUPLEX/USB RECEPTACLE, 3.1A AMP USB. |
| WP | WEATHERPROOF "IN USE" WITH GFI. |

| SYMBOL | DESCRIPTION |
|---|---|
| | FIRE ALARM HORN W/STROBE (88" MH) |
| | FIRE ALARM BELL (88" MH) |
| | FIRE ALARM BELL W/STROBE (88" MH) |
| | FIRE ALARM STROBE (88" MH) |
| | FIRE ALARM SPEAKER W/STROBE (88" MH) |
| FS | CEILING MTD AUDIO/VISUAL |
| F | CEILING MTD AUDIBLE |
| FAAP | FIRE ALARM REMOTE ANNUNCIATOR |
| FAKP | KNOX BOX |
| FACP | FIRE ALARM CONTROL PANEL |
| S | SMOKE DETECTOR (TYPE DENOTED) |
| H | HEAT DETECTOR (TYPE & TEMP DENOTED) |
| | DUCT SMOKE DETECTOR (TYPE DENOTED) |
| | REMOTE TEST/STATUS STATION |
| | SMOKE DAMPER. SEE DETAIL |
| | F.A. PULLSTATION, (46" MH) |
| | F.A. RELAY |
| | F.A. DOOR HOLDER |
| | SPRINKLER FLOW SWITCH |
| | SPRINKLER VALVE TAMPER SWITCH |
| GAP | GENERATOR REMOTE ANNUNCIATOR |
| 1 | KEYED NOTE (SEE SCHEDULE) |
| SD | SMOKE DAMPER (SEE DETAIL) |
| 2 C | CARBON MONOXIDE DETECTOR |
| N | NO2 SENSOR |

## ELECTRICAL ABBREVIATIONS LIST

| | |
|---|---|
| 1P | 1 POLE (2P, 3P, 4P, ETC.) |
| A | AMPERE |
| AC | ABOVE COUNTER OR AIR CONDITIONER |
| ACLG | ABOVE CEILING |
| ADO | AUTOMATIC DOOR OPENER |
| AF | AMP FRAME |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| AFI | ARC FAULT CIRCUIT INTERRUPTER |
| AHU | AIR HANDLING UNIT |
| AL | ALUMINUM |
| ALT | ALTERNATE |
| AMP | AMPERE |
| AMPL | AMPLIFIER |
| ANNUN | ANNUNCIATOR |
| APPROX | APPROXIMATELY |
| AQ-STAT | AQUASTAT |
| ARCH | ARCHITECT, ARCHITECTURAL |
| AS | AMP SWITCH |
| AT | AMP TRIP |
| ATS | AUTOMATIC TRANSFER SWITCH |
| AUTO | AUTOMATIC |
| AUX | AUXILIARY |
| AV | AUDIO VISUAL |
| AWG | AMERICAN WIRE GAUGE |
| BATT | BATTERY |
| BD | BOARD |
| BLDG | BUILDING |
| BMS | BUILDING MANAGEMENT SYSTEM |
| C | CONDUIT |
| CAB | CABINET |
| CAT | CATALOG |
| CATV | CABLE TELEVISION |
| CB | CIRCUIT BREAKER |
| CCTV | CLOSED CIRCUIT TELEVISION |
| CKT | CIRCUIT |
| CLG | CEILING |
| COMB | COMBINATION |
| CMPR | COMPRESSOR |
| CONN | CONNECTION |
| CONST | CONSTRUCTION |
| CONT | CONTINUATION OR CONTINUOUS |
| CONTR | CONTRACTOR |
| CONV | CONVECTOR |
| CP | CIRCULATING PUMP |
| CRT | CATHODE-RAY TUBE |
| CT | CURRENT TRANSFORMER |
| CTR | CENTER |
| CU | COPPER |
| DCP | DOMESTIC WATER CIRCULATING PUMP |
| DEPT | DEPARTMENT |
| DET | DETAIL |
| DIA | DIAMETER |
| DISC | DISCONNECT |
| DIST | DISTRIBUTION |
| DN | DOWN |
| DPR | DAMPER |
| DS | SAFETY DISCONNECT SWITCH |
| DT | DOUBLE THROW |
| DWG | DRAWING |
| E | EXISTING TO REMAIN |
| EC | ELECTRICAL CONTRACTOR |
| ELEC | ELECTRIC, ELECTRICAL |
| ELEV | ELEVATOR |
| EM | EMERGENCY |
| EMS | ENERGY MANAGEMENT SYSTEM |
| EMT | ELECTRICAL METALLIC TUBING |
| EP | ELECTRIC PNEUMATIC |
| EQUIP | EQUIPMENT |
| EWC | ELECTRIC WATER COOLER |
| EX | EXISTING |
| EXH | EXHAUST |
| EXP | EXPLOSION PROOF |
| FA | FIRE ALARM |
| FABP | FIRE ALARM BOOSTER POWER SUPPLY PANEL |
| FACP | FIRE ALARM CONTROL PANEL |
| FCU | FAN COIL UNIT |
| FIXT | FIXTURE |
| FLR | FLOOR |
| FLUOR | FLUORESCENT |
| FU | FUSE |
| FUDS | FUSED SAFETY DISCONNECT SWITCH |
| GA | GAUGE |
| GAL | GALLON |
| GALV | GALVANIZED |
| GC | GENERAL CONTRACTOR |
| GEN | GENERATOR |
| GFI | GROUND FAULT CIRCUIT INTERRUPTER |
| GFP | GROUND FAULT PROTECTOR |
| GND | GROUND |
| GRS | GALVANIZED RIGID STEEL (CONDUIT) |
| GYP BD | GYPSUM BOARD |
| HOA | HANDS-OFF-AUTOMATIC SWITCH |
| HORIZ | HORIZONTAL |
| HP | HORSEPOWER |
| HPF | HIGH POWER FACTOR |
| HT | HEIGHT |
| HTG | HEATING |
| HTR | HEATER |
| HV | HIGH VOLTAGE |
| HVAC | HEATING, VENTILATING AND AIR CONDITIONING |
| HWP | HYDRONIC WATER PUMP |
| IC | INTERRUPTING CAPACITY |
| IG | ISOLATED GROUND |
| IMC | INTERMEDIATE METAL CONDUIT |
| INCAND | INCANDESCENT |
| IR | INFRARED |
| IW | INTERLOCK WITH |
| J-BOX | JUNCTION BOX |
| KV | KILOVOLT |
| KVA | KILOVOLT-AMPERE |
| KVAR | KILOVOLT-AMPERE REACTIVE |
| KW | KILOWATT |
| KWH | KILOWATT HOUR |
| LOC | LOCATE OR LOCATION |
| LT | LIGHT |
| LTG | LIGHTING |
| LTNG | LIGHTNING |
| LV | LOW VOLTAGE |
| MAX | MAXIMUM |
| MAG.S | MAGNETIC STARTER |
| M/C | MOMENTARY CONTACT |
| MC | MECHANICAL CONTRACTOR |
| MCB | MAIN CIRCUIT BREAKER |
| MCC | MOTOR CONTROL CENTER |
| MDC | MAIN DISTRIBUTION CENTER |
| MDP | MAIN DISTRIBUTION PANEL |
| MFR | MANUFACTURER |
| MFS | MAIN FUSED DISCONNECT SWITCH |
| MH | MOUNTING HEIGHT, CENTERLINE |
| MIC | MICROPHONE |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| MLO | MAIN LUGS ONLY |
| MMS | MANUAL MOTOR STARTER |
| MOA | MULTIOUTLET ASSEMBLY |
| MSP | MOTOR STARTER PANELBOARD |
| MSBD | MAIN SWITCHBOARD |
| MT | MOUNT |
| MT.C | EMPTY CONDUIT |
| MTS | MANUAL TRANSFER SWITCH |
| MTR | MOTOR, MOTORIZED |
| N.C. | NORMALLY CLOSED |
| NEC | NATIONAL ELECTRICAL CODE |
| NEMA | NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION |
| NFDS | NON-FUSED SAFETY DISCONNECT SWITCH |
| NIC | NOT IN CONTRACT |
| NL | NIGHT LIGHT |
| N.O. | NORMALLY OPEN |
| NPF | NORMAL POWER FACTOR |
| NTS | NOT TO SCALE |
| OH | OVERHEAD |
| OL | OVERLOADS |
| PA | PUBLIC ADDRESS |
| PB | PULL BOX OR PUSHBUTTON |
| PE | PNEUMATIC ELECTRIC |
| PED | PEDESTAL |
| PF | POWER FACTOR |
| PH | PHASE |
| PIV | POST INDICATING VALVE |
| PNL | PANEL |
| PP | POWER POLE |
| PR | PAIR |
| PRI | PRIMARY |
| PROJ | PROJECTION |
| PRV | POWER ROOF VENTILATOR |
| PT | POTENTIAL TRANSFORMER |
| PVC | POLYVINYL CHLORIDE (CONDUIT) |
| PWR | POWER |
| QUAN | QUANTITY |
| R | RELOCATE |
| RCPT | RECEPTACLE |
| RD | RELOCATED |
| REQD | REQUIRED |
| RM | ROOM |
| RSC | RIGID STEEL CONDUIT |
| RTU | ROOF TOP UNIT |
| SC | SURFACE CONDUIT |
| SEC | SECONDARY |
| SHT | SHEET |
| SIM | SIMILAR |
| S/N | SOLID NEUTRAL |
| SPEC | SPECIFICATION |
| SPKR | SPEAKER |
| SP | SPARE |
| SR | SURFACE RACEWAY |
| SS | STAINLESS STEEL |
| SSW | SELECTOR SWITCH |
| S/S | STOP/START PUSHBUTTONS |
| STA | STATION |
| STD | STANDARD |
| SURF | SURFACE MOUNTED |
| SW | SWITCH |
| SWBD | SWITCHBOARD |
| SYM | SYMMETRICAL |
| SYS | SYSTEM |
| TEL | TELEPHONE |
| TERM | TERMINAL |
| TL | TWIST LOCK |
| T | TAMPER RESISTANT |
| T-STAT | THERMOSTAT |
| TTC | TELEPHONE TERMINAL CABINET |
| TV | TELEVISION |
| TVTC | TELEVISION TERMINAL CABINET |
| TYP | TYPICAL |
| UC | UNDER COUNTER |
| UE | UNDERGROUND ELECTRICAL |
| UG | UNDERGROUND |
| UH | UNIT HEATER |
| UNO | UNLESS NOTED OTHERWISE |
| UT | UNDERGROUND TELEPHONE |
| UTIL | UTILITY |
| UV | UNIT VENTILATOR OR ULTRAVIOLET |
| V | VOLT |
| VA | VOLT-AMPERES |
| VDT | VIDEO DISPLAY TERMINAL |
| VERT | VERTICAL |
| VFD | VARIABLE FREQUENCY DRIVE |
| VOL | VOLUME |
| W | WATT |
| W/ | WITH |
| WG | WIRE GUARD |
| WH | WATER HEATER |
| W/O | WITHOUT |
| WP | WEATHERPROOF |
| XFMR | TRANSFORMER |
| XFR | TRANSFER |
| @ | AT |
| ' | FEET |
| " | INCHES |
| # | NUMBER |
| Ø | PHASE |
| C | CENTER LINE |
| P | PLATE |

## ELECTRICAL GENERAL NOTES

A. GENERAL NOTES APPLY TO ALL SHEETS.
B. THE PLANS ARE INTENDED TO COMPLY WITH FEDERAL, STATE, AND LOCAL CODES, GUIDELINES, AND REGULATIONS, AS WELL AS THE HEALTHCARE FACILITIES GUIDELINES AND JOINT COMMISSION STANDARDS (FOR HEALTHCARE PROJECTS). THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL OF THE PLANS AND SPECIFICATIONS, NOT SOLELY THOSE OF THEIR TRADE.
C. SEE THE ARCHITECTURAL PLANS FOR A LEGEND OF WALL PARTITION TYPES. PROVIDE A UL RATED FIRESTOPPING ASSEMBLY TO MEET THE RATING OF THE WALLS REQUIRING SUCH. SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
D. THE CONTRACTOR SHALL LAY OUT AND COORDINATE ALL LINES, LEVELS, ELEVATIONS, AND MEASUREMENTS FOR ALL THE WORK, AND NOTIFY THE ENGINEER OF DISCREPANCIES AND CONFLICTS BEFORE PROCEEDING WITH INSTALLATION OR EXCAVATION. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR THE EXACT LOCATIONS AND QUANTITIES OF DEVICES.
E. IN THE EVENT OF INCONSISTENCY OR CONFLICT WITHIN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY OR GREATER QUANTITY OF WORK AND COMPLY WITH THE STRICTER REQUIREMENT.
F. REFER TO ARCHITECTURAL ELEVEATIONS FOR DEVICE LOCATIONS AND MOUNTING HEIGHTS WHEN LOCATED AT OR ABOVE CASEWORK. COORDINATE EXACT DEVICE LOCATIONS PRIOR TO ROUGH-IN AND INSTALLATION. COORDINATE MOUNTING HEIGHTS WITH DEVICES OF OTHER TRADES IF NOT ELEVATED.
G. SEE ARCHITECTURAL ELEVATIONS FOR ALL WALL MOUNTED DEVICES (I.E. HAND DRYERS, PHONES, ETC). COORDINATE LOCATIONS IN FIELD FOR EXACT PLACEMENT. RECEPTACLES IN ROOMS WITH SINKS ARE NOTED AS "GF" WHERE WITHIN SIX FEET OF A WATER SOURCE. IF RECEPTACLES SHOWN WITHOUT "GF" ARE LOCATED CLOSER TO SINK, GROUND FAULT MUST BE ADDED TO THE DEVICE. ARCHITECTURAL ELEVATIONS SHALL TAKE PRECEDENCE. EC TO COORDINATE ALL OUTLETS LOCATED ABOVE SINKS AND COUNTERTOPS WITH ARCHITECTURAL ELEVATIONS OF THE RESPECTIVE AREA AND ALL OTHER TRADES. IF NO ELEVATION EXISTS, LOCATE RECEPTACLES TO AVOID ALL MIRRORS, DEVICES, ETC. LOCATED ON BACK WALL OF SINK. DO NOT MOUNT ANY OUTLETS DIRECTLY OVER SINKS.
H. COORDINATE EXACT LOCATIONS OF LIGHTING FIXTURES TO BE INSTALLED IN MECHANICAL ROOMS WITH OTHER TRADES AND BUILDING CONDITIONS.
I. ALL FIRE ALARM STROBE LIGHTS SHALL BE SYNCHRONIZED (INCLUDING ROOMS WHERE THERE ARE OPERABLE PARTITIONS OR DOORS ON HOLD OPENS).
J. FURNISH AND WIRE ALL DUCT SMOKE DETECTORS, INSTALL AS SHOWN ON DRAWINGS. F/A VENDOR SHALL COORDINATE WITH HC ON ALL LOCATIONS OF SMOKE DAMPERS PRIOR TO SUBMITTAL (AS LOCATIONS AND QUANTITIES MAY VARY DEPENDING ON HC ROUTING).
K. FROM ALL FLUSH MOUNTED PANEL BOARDS, PROVIDE 1 SPARE 3/4" CONDUITS FOR EVERY 3 SPARE CIRCUIT BREAKERS OR PROVISIONAL SPACES OUT TO ABOVE ACCESSIBLE CORRIDOR CEILING SPACE. PROVIDE 1/4" THICK STEEL PLATE TO BACK OF ELECTRICAL PANELS. THE OVERALL DIMENSION OF THE PLATE IS TO BE THE SIZE OF THE ELECTRICAL PANEL. COORDINATE WALL THICKNESS FOR PANELBOARDS WITH ARCHITECT AND GC.
L. ALL RECEPTACLES CIRCUITED TO "C", "E" AND "L" SERIES PANELS (ANY PANEL WITH DESIGNATION WHICH STARTS WITH THE LETTER 'C', 'E' AND 'L') SHALL BE RED IN COLOR UNO IN SPECIFICATIONS.
M. ALL EXTERIOR BUILDING-MOUNTED RECEPTACLES SHALL BE WEATHER RESISTANT, GROUND FAULT INTERRUPT UNLESS SPECIFIED OTHERWISE.
N. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ONE EXTRA EXIT SIGN AND 50' OF 3/4" CONDUIT AND WITH (2) #10'S AND #10 GND AS PART OF THEIR BID FOR ADDITIONAL EXIT SIGNS THAT MAY BE REQUIRED BY FIELD AHJ WALK-THRU.
O. LIGHT FIXTURES ARE SHOWN IN APPROXIMATE LOCATIONS. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR EXACT LOCATION OF FIXTURES. EXTERIOR MOUNTING HEIGHTS INDICATED ON PLANS ARE FOR REFERENCE ONLY. COORDINATE ALL HEIGHTS AND LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.
P. ALL EMERGENCY LIGHTING FIXTURES, NIGHT LIGHTS, EXITS SIGNS, AND GTD'S SHALL BE CONNECTED TO UNSWITCHED LEGS OR THROUGH AN EMERGENCY LIGHTING SPECIFIC RELAY CIRCUIT, UNLESS NOTED OTHERWISE. LIGHT FIXTURES CONNECTED TO A LIFE SAFETY BRANCH CIRCUIT ARE TO HAVE A "GLR" IN LINE FUSE UNO.
Q. MOUNT GTD (OR REMOTE BATTERY PACK) FOR EMERGENCY EXTERIOR FIXTURES IN INTERIOR SPACE ABOVE ACCESSIBLE CEILING. PROVIDE STICK ON LABEL ON GRID NOTING GTD ABOVE.
R. COORDINATE ALL TASK LIGHTING WITH CASEWORK CONTRACTOR PRIOR TO ROUGH-IN. SEE ARCHITECTURAL ELEVATIONS FOR FIXTURE LOCATIONS AND MOUNTING DETAILS.
S. REFER TO POWER PLANS FOR ACTUAL PANEL LOCATION. GENERAL LOCATION OF PANELS MAY BE SHOWN ON LIGHTING PLAN FOR REFERENCE.
T. ALL CABLE CONNECTIONS TO GROUND RODS, STRUCTURAL STEEL OR REINFORCING STEEL SHALL BE BY CADWELD, THERMOWELD OR HELIARC WELDING PROCESS. SEE DIV 26 GROUNDING SPECIFICATION.
U. THIS CONTRACTOR SHALL COORDINATE WITH OTHER TRADES. SPACE EXITING BUILDING MAY HAVE STORM/WATER AND POWER CONDUITS. COORDINATION DRAWINGS SHALL BE DONE AND APPROVED PRIOR TO INSTALLATION AND SHALL SHOW BUILDING FOOTERS, ALL PIPING, ETC.
V. SEAL ALL CONDUITS TO FUEL OIL TANKS AND AT FIRE WALLS. ALSO, SEAL CONDUITS BETWEEN EXTERIOR SPACES AND INTERIOR SPACES, CONDUITS THAT ENTER WALK-IN COOLERS/FREEZERS, OR CONDUITS BETWEEN SPACES THAT ARE JUST HEATED VS HEATED AND COOLED.
W. PROVIDE 4" HOUSEKEEPING PADS FOR ALL EQUIPMENT THAT IS FLOOR SET UNO.
X. VERIFY ALL EQUIPMENT CONNECTION LOCATIONS WITH SUPPLIER PRIOR TO ROUGH-IN AS EQUIPMENT MAY CHANGE.
Y. INTERLOCK CONTROL WIRING FOR EQUIPMENT WITH EQUIPMENT SERVED (MOTORIZED LOUVERS AND SHAFT FANS WITH GENERATOR START CONTROLS) SHALL BE BY EC UNO.
Z. COORDINATE ALL MOUNTING HEIGHTS BETWEEN ALL TRADES. COORDINATE PANEL LOCATION WITH PC/HC/FPC TO ENSURE NO FORGEIN SYSTEMS ARE WITHIN 6' OF THE TOP OF THE PANEL PER NEC 110. AND PIPING BEYOND 6' ABOVE PANELS ARE REQUIRED TO BE SLEEVED.
AA. PROVIDE FACEPLATES FOR ALL OUTLET COVERS LISTED WITH PANEL AND CIRCUIT NUMBERS. ALL EMERGENCY OUTLETS SHALL BE SUPPLIED WITH RED COVER PLATE AND UPS SHALL BE BLUE. ALL NORMAL RECEPTACLES SHALL BE SUPPLIED WITH COVER PLATE MATCHING DEVICE COLOR. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
BB. COORDINATE ALL LIGHT SWITCHES, ELECTRICAL PANELS, AND OTHER ELECTRICAL EQUIPMENT LOCATIONS WITH HVAC, FPC, AND PLUMBING CONTRACTORS PRIOR TO ROUGH-IN. VERIFY SPACE FOR EQUIPMENT THROUGH COORDINATION DRAWINGS. ALL WALLS THAT HAVE MULTIPLE DEVICES (RECEPTACLES, DATA, LIGHT SWITCHES, THERMOSTATS, FIRE ALARM DEVICES, ETC) SHALL BE ALIGNED. RECEPTACLES SHALL BE MOUNTED AT THE SAME HEIGHT AS DATA OUTLETS IF NOT SHOWN ON THE ARCHITECTURAL ELEVATIONS. MOUNT ALL DATA OUTLETS AND RECEPTACLES AT SAME HEIGHTS AND CLOSE TO ONE ANOTHER WHENEVER POSSIBLE (ALLOWING FOR SPACE FOR LARGER COVERPLATES).
CC. EC TO HARD PIPE ALL LIFE SAFETY CIRCUITS ('L' PREFIX PANELS). NO FLEXIBLE RACEWAY TO BE USED (EXCEPT TO CEILINGS AND MOVING EQUIPMENT WITHIN THE ROOM). CRITICAL BRANCH PANELS ('C' PREFIX) AND LIFE SAFETY CIRCUITS SHALL NOT SHARE WIRING WITH ANY EQUIPMENT, OPTIONAL, OR NORMAL POWER SYSTEMS. OUTPUT WIRING FROM 20A GTD'S SHALL BE CLASSIFIED AS LIFE SAFETY (FOR INTERIOR OR EXTERIOR LIGHTING CIRCUITS).
DD. OBTAIN SITE SPECIFIC CUT SHEETS FOR OWNER FURNISHED EQUIPMENT. PROVIDE POWER CIRCUIT AND CONNECTIONS AS SHOWN ON DRAWINGS.
EE. EC TO REFERENCE ARCHITECTURAL PLANS FOR RECEPTACLE HEIGHTS PRIOR TO ROUGH-IN.
FF. SPECIAL RECEPTACLES IN DATA ROOMS ARE TO BE NEMA L6-20R (U.N.O.). VERIFY LAYOUT WITH RACKS AND EQUIPMENT.
GG. COORDINATE MOTORIZED DOOR OPERATORS WITH ARCHITECTURAL DRAWINGS.
HH. PROVIDE POWER TO ALL MECHANICAL/PLUMBING EQUIPMENT THAT REQUIRES POWER. THIS INCLUDES ANY VENDOR SPECIFIC ADDITIONAL EQUIPMENT THAT IS NOT SHOWN. POWER SHALL BE SOURCED TO MATCH THE REST OF THE SYSTEMS BRANCH REQUIREMENTS (FROM LIKE PANELS, IF 'C' PANEL FED HEADEND, THEN 'C' SHALL FEED ADDITIONAL EQUIPMENT), UNO. COORDINATE ALL EQUIPMENT LUGS WITH SAID CONTRACTOR PROVIDING EQUIPMENT. EQUIPMENT IS ASSUMED TO BE PROVIDED WITH LUGS TO CONNECT TO WIRING PROVIDED ON THESE DRAWINGS.
II. ANY DAMAGE CAUSED BY THIS CONTRACTORS SCOPE OF WORK SHALL BE THIS CONTRACTORS RESPONSIBILITY.
JJ. DO NOT SCALE PLANS WHEN DIMENSIONS EXIST OF EQUIPMENT. ANY DISCREPANCIES IN DIMENSIONS SHALL BE NOTED AT IN SUBMITTALS. PROVIDE RFI WHEN SPACE DOES NOT ALLOW FOR INSTALLATION AT TIME OF SUBMITTAL).
KK. ALL EQUIPMENT LOCATIONS ARE APPROXIMATE, COORDINATE EXACT LOCATION IN FIELD.
LL. THIS CONTRACTOR SHALL BE REQUIRED TO COORDINATE ALL LOCATIONS OF ALL DEVICES, PIPING, CONDUITS, DUCTS, CLEARANCES, ETC. WITH ALL OTHER TRADES. HVAC, STORM AND SANITARY PIPING SHALL HAVE RIGHT OF WAY FOR SLOPE AND SPACE REQUIREMENTS. ALL DEVICES THAT REQUIRE WORK FROM OTHER TRADES (THE FOLLOWING IS AN EXAMPLE BUT NOT A COMPLETE LIST): EQUIPMENT, DEVICES, SMOKE DETECTORS, SMOKE DAMPERS, ETC. SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION. SEE SPECIFICATIONS FOR PHASING REFERENCES.
MM. COORDINATE ALL CEILING INSTALLATIONS DEVICES WITH CEILING TILE SUPPLIER. INSTALL DEVICES ON QUARTER POINTS IF SCORE TILE IS INSTALLED. INSTALL MULTIPLE DEVICES IN ONE TILE WHERE POSSIBLE (TO LIMIT THE NUMBER OF INACCESSIBLE TILES) AND SHALL BE COORDINATED IN FIELD WITH VENDORS. THIS SHALL INCLUDE, BUT NOT LIMITED TO: SPRINKLER HEADS, SPEAKERS, F/A DEVICES, LIGHTING CONTROLS, ETC.
NN. REFER TO SPECIFICATIONS FOR VOLTAGE DROP REQUIREMENTS AS THEY ARE DIFFERENT FROM THE NEC MINIMUMS.
OO. CABLE TRAY SHALL BE USED FOR VOICE AND DATA CABLING ONLY. CENTRAL SOUND, VIDEO, AND ALL OTHER CABLING SHALL BE RUN IN SEPARATE AND INDEPENDENT J-HOOK STRAPS AND NOT IN THE CABLE TRAY.
PP. PROVIDE TWO (2) 2" CONDUIT SLEEVES ABOVE THE ENTRY DOOR OF EACH ROOM FOR VOICE, DATA, AND ALL OTHER CABLING.
QQ. EC IS REQUIRED TO WALK THRU WITH OWNER TO VERIFY ALL DEVICE LOCATIONS AFTER INSTALLATION OF STUDS BEFORE ANY CONDUIT OR BOXES INSTALLED (PER ROOM TYPE).
RR. SEE VIDEO IMAGING SITE SPECIFIC DRAWINGS FOR ALL CLIENT CONTRACTOR WORK REQUIRED, RACEWAY BOXES, CABLES, ETC.
SS. SEE SITE SPECIFIC DRAWINGS FOR ALL CLIENT CONTRACTOR WORK REQUIRED, RACEWAY BOXES, CABLES, ETC
TT. VERIFY ALL OWNER PROVIDED AND RELOCATED ITEMS/EQUIPMENT IN FIELD. REFER TO SITE SPECIFIC DRAWINGS WERE POSSIBLE.
UU. ALL TRENCH WIDTHS ARE SHOWN FOR ITEMS ONLY. ANY REQUIREMENTS FOR SLOPING WALLS OR TO MAKE WIDER FOR CODES/WORKING/SAFETY ARE BY THE CONTRACTOR.
VV. MAINTAIN 18" SEPARATION BETWEEN CONDUITS OF MEDIUM VOLTAGE AND LOW VOLTAGE.
WW. THE ELECTRICAL CONTRACTOR SHALL ALSO INCLUDE ROUGH-INS (CONDUIT WITH PULL-STRINGS) FOR THERMOSTATS AND OTHER HVAC WALL MOUNTED CONTROL DEVICES. REFER TO MECHANICAL PLANS AND COORDINATE WITH THE CONTROLS CONTRACTOR.
XX. PROVIDE ROUGH IN OF ALL TECHNOLOGY DEVICES SHOWN ON THE POWER AND TECHNOLOGY PLANS.
YY. WHERE ROOMS ARE PRESSURE SENSITIVE, INTERIOR OF CONDUITS SHALL BE SEALED AS WELL AS EXTERIOR PENETRATIONS THRU WALL.
ZZ. LIGHTING CONTROL SYSTEM STARTUP AND COMMISSIONING SHALL BE BY THE LIGHTIING CONTROL MANUFACTURER. ANY DAYLIGHT HARVESTING SYSTEMS (WHEN INSTALLED), SHALL BE PROVIDED TO SPECIFICATIONS. ANY CHANGES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR A COMPLETE AND FUNCTIONING SYSTEM MATCHING EXISTING DESIGN INTENT.
AAA. THE EC SHALL COORDINATE NEW SERVICE WITH UTILITY(S). ONCE THE CONTRACTOR HAS BEEN AWARDED, A SCHEDULE SHALL BE SET TO DETERMINE THE WORK REQUIRED BY THE UTILITY(S). NEW/CHANGE OF SERVICE SHALL BE FILED BY THE CONTRACTOR. THE ARCHITECT/OWNER/ENGINEER SHALL PROVIDE LOAD BREAKDOWNS, ACCOUNT INFORMATION, ETC AS REQUIRED TO APPLY FOR NEW/CHANGE OF SERVICE AS NOTED ON DRAWINGS. ANY UTILITY INFORMATION SHOWN ON DRAWINGS IS APPROXIMATE AND SUBJECT TO CHANGE. ENGINEER MAY COORDINATE INTENT WITH UTILITY (DUE TO MOST UTLITIES HAVING A 6 MONTH EXPIRATION ON ANY REQUESTS).

## ELECTRICAL PHASING GENERAL NOTES

A. PROVIDE A LIST OF SHUTDOWNS. ALL SHUTDOWNS NEED TO BE APPROVED 2 WEEKS PRIOR BY THE OWNER UNO. ALL SHUTDOWNS REQUIRE A MOP (METHOD OF PROCEDURE) DOCUMENT GENERATED BY THE CONTRACTOR WITH DESCRIPTIONS OF THE ACTIVITIES AND DURATIONS OF EACH EVENT, POINT OF NO RETURN, AND TOTAL DURATION OF THE SHUTDOWN. THIS MUST BE APPROVED BY THE OWNER AND ENGINEER 30 DAYS PRIOR TO SHUTDOWN.
B. E.C. SHALL DISCONNECT ALL POWER TO EQUIPMENT OF OTHER TRADES DESIGNATED FOR DEMOLITION OR RELOCATION. COORDINATE ALL WORK REQUIRED WITH CONTRACTORS OF OTHER TRADES. IN SUCH CASES WHERE THE EQUIPMENT IS BEING REMOVED, E.C. SHALL REMOVE ALL ASSOCIATED WIRING, CONDUIT, AND BOXES BACK TO SOURCE. TURN OVER ALL REMOVED ELECTRICAL EQUIPMENT TO OWNER.
C. REFER TO ARCHITECTURAL PHASING PLANS FOR SCHEDULE OF WORK.
D. EXISTING LIGHTING TO REMAIN IN OPERATION THRU ALL PHASES OF CONSTRUCTION.
E. RECONNECT ALL EXISTING AND RELOCATED DEVICES AND EQUIPMENT TO ORIGINAL PANEL UNLESS OTHERWISE NOTED ON PLANS. RECONFIGURE AND EXTEND CIRCUIT AS NECESSARY. PROVIDE OWNER WITH UPDATED, TYPED PANEL SCHEDULE.
F. POWER TO EXISTING HVAC EQUIPMENT, VAV BOXES, AND HEATERS (UNIT OR OTHERWISE) TO REMAIN IN OPERATION DURING COLD MONTHS OF CONSTRUCTION. IF ANY HEATING UNITS/SYSTEMS ARE REMOVED OR TURNED OFF, CONTACTOR MUST PROVIDE TEMPORARY HEATING TO ENSURE PIPES TO NOT FREEZE.
G. COORDINATE ALL CEILING REPLACEMENTS WITH ARCHITECTURAL PLANS FOR LOCATION OF CEILING REPLACEMENTS. DEMOLITION OF FIXTURES SHALL BE SIMILAR TO SPACES NOTED. DEMOLISHED CEILING SHALL HAVE ALL DEVICES PROTECTED AND REINSTALLED TO NEW CEILINGS. LIGHTING SHALL BE REMOVED AND REPLACED WITH NEW FIXTURES AS NOTES OR WITH SIMILAR TYPE FOR CEILING. CURRENTLY ALL CEILINGS ARE NOT SHOWN ON ELECTRICAL PLANS. LIGHT FIXTURES SHALL BE CONNECTED BACK TO THE SAME CIRCUIT/SWITCHING, UNO. WHERE NEW CIRCUITING IS SHOWN USING LESS CIRCUITS THAN EXISTED PREVIOUSLY, UNUSED CIRCUITS SHALL BE DEMOLISHED BACK TO LAST USED DEVICE OR BREAKER. UPDATE PANEL SCHEDULES AS REQUIRED WITH NEW TYPE WRITTEN SCHEDULES.
H. THIS CONTRACTOR WILL BE RESPONSIBLE FOR THEIR CUTTING AND PATCHING AND HIRING A QUALIFIED CARPENTER/CONTRACTOR TO PERFORM SAID CUTTING AND PATCHING.
I. BUILDING IS REQUIRED TO BE OPEN FOR BUSINESS DURING OWNER'S NORMAL WORK SCHEDULE. THIS CONTRACTOR SHALL PROVIDE ANY PROTECTION REQUIRED FOR THE SAFETY OF OCCUPANTS WORKING IN RENOVATED AREAS. SHUTDOWNS WILL BE DONE AT NIGHT OR WEEKENDS (OUTSIDE OF OWNER'S NORMAL BUSINESS HOURS UNLESS OWNER APPROVED). SERVICES SHALL BE RESTORED BY NEXT BUSINESS DAYS OPERATING HOURS (PLUS ANY TIME THE OWNER NEEDS TO VERIFY ALL SYSTEMS ARE RESTORED). EXTENDED (LONG) SHUTDOWNS/OUTAGES SHALL BE PLANNED OVER LONGER WEEKENDS (HOLIDAYS) OR BREAKS (IF APPLICABLE).
J. EC SHALL DISCONNECT ALL POWER TO EQUIPMENT OF OTHER TRADES DESIGNATED FOR RELOCATION. COORDINATE ALL WORK REQUIRED WITH CONTRACTORS OF OTHER TRADES.
K. COORDINATE PHASING OF EQUIPMENT OF OTHER TRADES WITH SPECIFIC CONTRACTORS AND GC. PERFORM ELECTRICAL WORK ASSOCIATED WITH EQUIPMENT AS REQUIRED BY PHASING PLAN BY OTHERS. EC SHALL ALSO COORDINATE WITH THEIR SU

| PLAN NOTES | |
|---|---|
| # | NOTE |
| E6 | PROVIDE FEED FROM LIGHTING INVERTER & EMERGENCY CIRCUIT EL1-27. |

HAZARDOUS LOCATIONS (APPLIES TO ALL SHEETS):

1.- IN WASH BAY ALL AREAS LOCATED BELOW 18" A.F.F. ARE CLASSIFIED AS CLASS 1, DIVISION 2 LOCATIONS. CONTRACTOR SHALL COMPLY WITH NEC ARTICLE 511.4
ALL CONDUITS SHALL BE CONCEALED IN MASONRY WALLS; OTHERWISE SEALING FITTINGS PER NEC 501.5 ARE REQUIRED WHERE CONDUITS EXTEND THROUGH THE CLASS 1 DIVISION 2 AREA LOCATED UP TO 18" A.F.F.

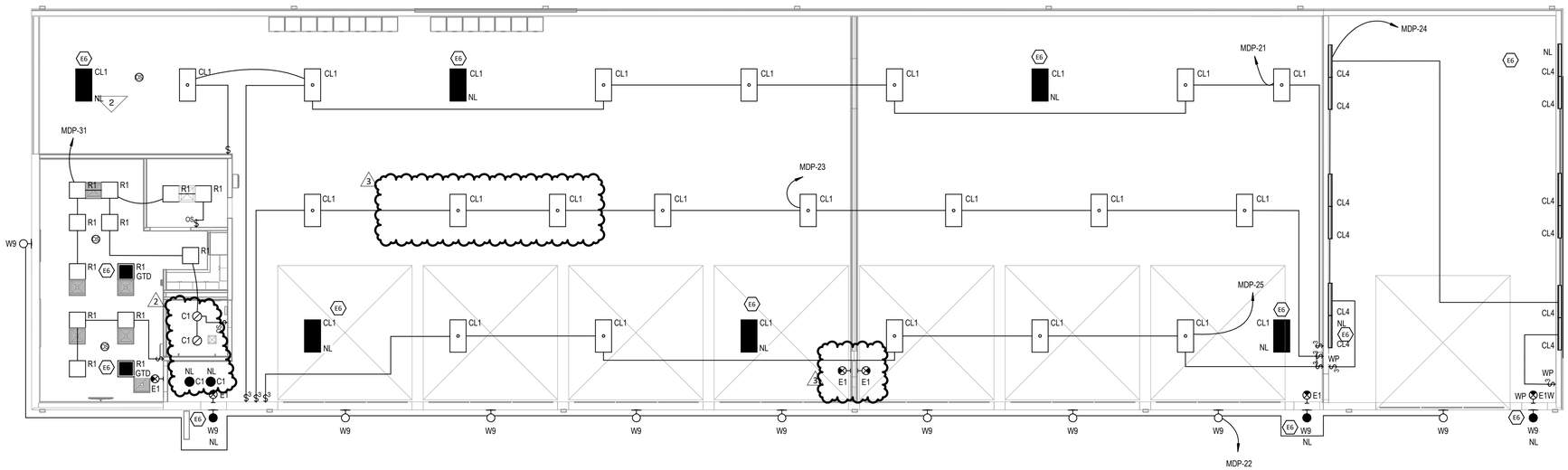
2.- ALL CONDUITS REQUIRING SEALING FITTINGS WHICH ARE TO BE LEFT EMPTY ARE TO BE INSTALLED WITH THREADED CAPS IN LIEU OF SEALANT.

3.- THE FUEL ISLAND SHALL BE CONSIDERED TO BE A CLASS 1, DIVISION 1 AND 2 LOCATION. ELECTRICAL CONTRACTOR SHALL COMPLY WITH NEC REQUIREMENTS, INCLUDING ARTICLES 501 AND 514. PROVIDE EXPLOSION PROOF SEALING FITTINGS AT EACH END OF ALL CONDUITS ORIGINATING AT THE FUEL ISLAND AS REQUIRED PER NEC ARTICLE 514.9.

4.- ALL WIRING AND EQUIPMENT IN SPACES ABOVE CLASS 1 LOCATIONS, SHALL BE INSTALLED ACCORDING ALL FIXED WIRING ABOVE TO NEC 511.7 AND NEC 501.(NEC 511.7.A.1: CLASS 1 LOCATIONS SHALL BE IN METAL RACEWAYS, RNC, ENT, FMC, LIQUIDTIGHT FMC, LIQUIDTIGHT FNC, OR TYPE MC, AC, MI. MANUFACTURED WIRING SYSTEMS, OR TYPE PLTC CABLE IN ACCORDANCE WITH ARTICLE 725, ) ALL WIRING TYPE TC OR ITC CABLE IN ACCORDANCE WITH ARTICLE 727. AND EQUIPMENT SHALL ALSO BE INSTALLED PER THE GOVERNING TECHNICAL SPECIFICATIONS.

5.- CONTRACTOR SHALL COMPLY WITH ALL NEC 501 & 511 REQUIREMENTS, INCLUDING AND NOT LIMITED TO THOSE REQUIREMENTS SPECIFICALLY OUTLINED ON THESE PLANS.

6.- ALL ELECTRICAL EQUIPMENT IN SPACES ABOVE CLASS 1 LOCATIONS, SHALL BE INSTALLED ACCORDING TO NEC 511.7 AND NEC 501. (NEC 511.7.B.1.a: ARCING EQUIPMENT. EQUIPMENT THAT IS LESS THAN 3.7m (12 FT) ABOVE THE FLOOR LEVEL THAT MAY PRODUCE ARCS, SPARKS, OR PARTICLES OF HOT METAL, SUCH AS CUTOUTS, SWITCHES CHARGING PANELS GENERATORS, MOTORS OR OTHER EQUIPMENT (EXCLUDING RECEPTACLES, LAMPS AND LAMPHOLDERS) HAVING MAKE-AND-BREAK OR SLIDING CONTACTS, SHALL BE OF THE TOTALLY ENCLOSED TYPE OR CONSTRUCTED SO AS TO PREVENT THE ESCAPE OF SPARKS OR HOT METAL PARTICLES. NEC 511.7.B.1.b: FIXED LIGHTING. LAMPS AND LAMPHOLDERS FOR FIXED LIGHTING THAT IS LOCATED OVER LANES THROUGH WHICH VEHICLES ARE COMMONLY DRIVEN OR THAT MAY OTHERWISE BE EXPOSED TO PHYSICAL DAMAGE SHALL BE LOCATED NOT LESS THAN 3.7m (12 FT) ABOVE THE FLOOR LEVEL, UNLESS OF THE TOTALLY ENCLOSED TYPE OR CONSTRUCTED SO AS TO PREVENT THE ESCAPE OF SPARKS OR HOT METAL PARTICLES.)




1 E101 FIRST FLOOR LIGHTING PLAN
1/8" = 1'-0"
0 4' 8' 16'


JMSA ARCHITECTURE

Jerome M. Scott Architects
1020 Goodale Blvd
Columbus, Ohio
43212

Dynamix Engineering
A VEREGY COMPANY
855 Grandview Avenue, 3rd Floor Columbus, OH 43215
Phone: (614) 443-1178 Fax: (614) 443-1594
Email: dynamix@dynamix-ltd.com
DEL #21-179


DOUGLAS E. SMITH
PROFESSIONAL ENGINEER

DOT-200023 ODOT - EATON OUTPOST

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5656 US-127 Eaton, Ohio 45320

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SHEET TITLE

FIRST FLOOR LIGHTING PLAN

E101

HAZARDOUS LOCATIONS (APPLIES TO ALL SHEETS):

1.- IN WASH BAY ALL AREAS LOCATED BELOW 18" A.F.F. ARE CLASSIFIED AS CLASS 1, DIVISION 2 LOCATIONS. CONTRACTOR SHALL COMPLY WITH NEC ARTICLE 511.4
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5.- CONTRACTOR SHALL COMPLY WITH ALL NEC 501 & 511 REQUIREMENTS, INCLUDING AND NOT LIMITED TO THOSE REQUIREMENTS SPECIFICALLY OUTLINED ON THESE PLANS.

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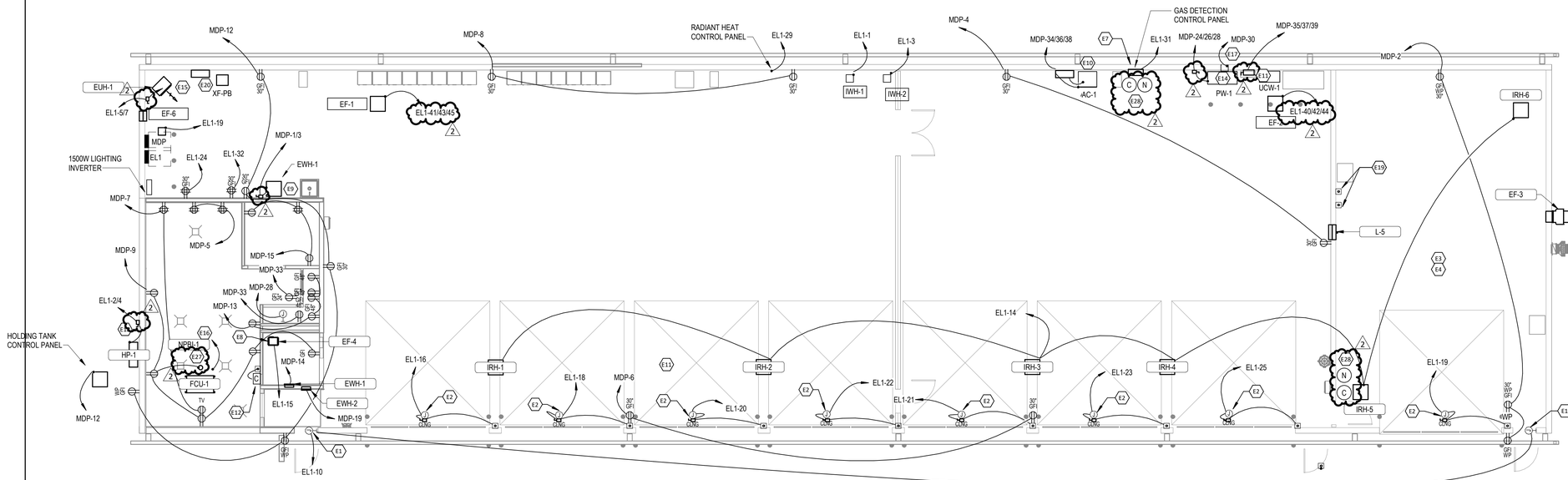


1 E201 FIRST FLOOR POWER PLAN
1/8" = 1'-0"
0 4' 8' 16'

## PLAN NOTES

| # | NOTE |
|---|---|
| E1 | DOOR ELECTRONICS - 120V, 1-PH. PROVIDE ALL INTERFACE WIRING BETWEEN ELECTRIC STRIKE, DOOR CONTACTS, CARD READER AND REQUEST-TO-EXIT DEVICES. |
| E2 | OVERHEAD DOOR - 120V, 1-PH. PROVIDE 30A NF DISCONNECT SWITCH, POWER WIRING & CONTROL WIRING TO OVERHEAD DOOR OPERATOR, PUSHBUTTON STATION & DOOR EDGE SAFETY SENSOR. OTHERS SHALL FURNISH PUSHBUTTON STATION FOR INSTALLATION BY ELECTRICAL CONTRACTOR. |
| E3 | ALL CONDUIT, WIRING, FITTINGS, SEALS ETC. MUST BE RATED FOR INSTALLATION IN A WET LOCATION IN THIS AREA. |
| E4 | ALL CONDUIT AND ASSOCIATED JUNCTION BOXES SHALL BE SCHEDULE 40PVC. |
| E7 | PROVIDE DUAL GAS MONITORING CONTROL PANEL SIMILAR TO ACME CEL SERIES MULTIPOINT & MULTIGAS CENTRALIZED DETECTION AND CONTROL SYSTEM. INTERLOCK WITH EXHAUST FANS SHOWN ON THE DRAWINGS. PROVIDE ALL CO & NO2 SENSORS & CIRCUITRY. |
| E8 | WIRE TO CORRESPONDING LIGHT CIRCUIT IN ROOM - TO BE CONTROLLED WITH LIGHTING. |
| E9 | ELECTRIC WATER HEATER - 208V, 1-PH, 2.5KW. PROVIDE (2)#10 AND (1) #10 GND. PROVIDE 30A NF DISCONNECT SWITCH. |
| E10 | AIR COMPRESSOR - 208V, 3-PH, 15 HP. PROVIDE 100A DISCONNECT SWITCH, PROVIDE (2) #4 CONDUCTORS AND #8 GROUND IN 3/4" CONDUIT & WIRE COMPLETE. |
| E11 | PROVIDE 200A 1P NEMA 3X DISCONNECT SWITCH MOUNTED ADJACENT TO UNDERCARRIAGE WASHER PUMP SYSTEM. CONNECT PUMP TO DISCONNECT SWITCH WITH SEALTIGHT FLEX AND #1 WIRE. PROVIDE A CONTACTOR IN THE INCOMING CIRCUIT TO ONLY ALLOW THE UNDERCARRIAGE PUMP TO BE ENERGIZED IF EXHAUST FAN #3 IS RUNNING. |
| E12 | PROVIDE PUSHBUTTON "KILL" SWITCH AND 30A, 4 POLE FUEL SHUTOFF CONTACTOR IN READY ROOM AND LABEL ACCORDINGLY. WIRE TO GAS AND DIESEL FUEL PUMPS AT FUEL STATION. REFER TO SITE UTILITY PLAN SHEET FOR LOCATION. |
| E14 | PRESSURE WASHER - 208V, 3-PH, 7.5 HP. PROVIDE 60A 3P NEMA 3R NF DISCONNECT SWITCH MOUNTED ADJACENT TO PRESSURE WASHER. CONNECT PRESSURE WASHER TO DISCONNECT SWITCH WITH SEALTIGHT FLEX & #8 WIRE. PROVIDE A CONTACTOR IN THE INCOMING CIRCUIT TO ONLY ALLOW THE PRESSURE WASHER TO BE ENERGIZED IF EXHAUST FAN #3 IS RUNNING. |
| E15 | ELECTRIC UNIT HEATER, 208V 1-PH, 5 KW. PROVIDE 60A NF DISCONNECT SWITCH. |
| E16 | PROVIDE CONNECTION TO FAN COIL UNIT. PROVIDE ALL INTERCONNECT POWER WIRING AND CONTROL WIRING FROM THE OUTDOOR UNIT TO THE INDOOR UNIT. |
| E17 | DRAFT INDUCER FOR PRESSURE WASHER - 120V, 1-PH, 5.8A. EXTEND CIRCUIT TO COIL OF PILOT SWITCH FOR PRESSURE WASHER. |
| E18 | HEAT PUMP - 208V, 1-PH, 26A. PROVIDE (2) #18 AND (1) #10 GND. PROVIDE 60A NEMA 3R NF DISCONNECT SWITCH. |
| E19 | PROVIDE WEATHERPROOF REMOTE SWITCH FOR PRESSURE WASHER & UNDERCARRIAGE WASH SYSTEM - COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN. |
| E20 | TRANSFORMER FOR 120/240V 1P PANEL IN POLE BARN BUILDING - 15 KVA, 208V 1P PRI 240V 1P SEC - PROVIDE 100A DISCONNECT SWITCH FUSED AT 60A ON SECONDARY. |
| E27 | 24V IN-DUCT AIR PURIFIER, 120/24V TRANSFORMER PROVIDED BY MANUFACTURER. MAKE ALL FINAL CONNECTIONS. |
| E28 | PROVIDE CO AND NO2 SENSORS. PROVIDE CIRCUITRY TO THE FUAL GAS CONTROL PANEL. |


JMSA ARCHITECTURE

Jerome M. Scott Architects
1020 Goodale Blvd
Columbus, Ohio
43212

Dynamix Engineering
A VEREGY COMPANY
855 Grandview Avenue, 3rd Floor Columbus, OH 43215
Phone: (614) 443-1178 Fax: (614) 443-1594
Email: dynamix@dynamix-ltd.com
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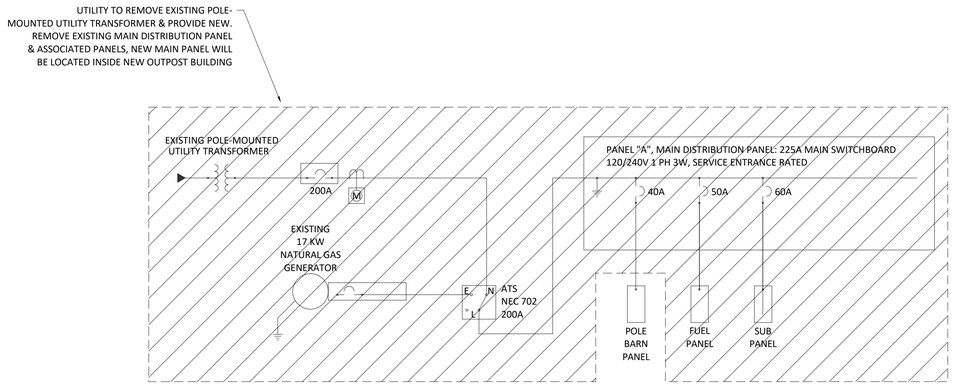
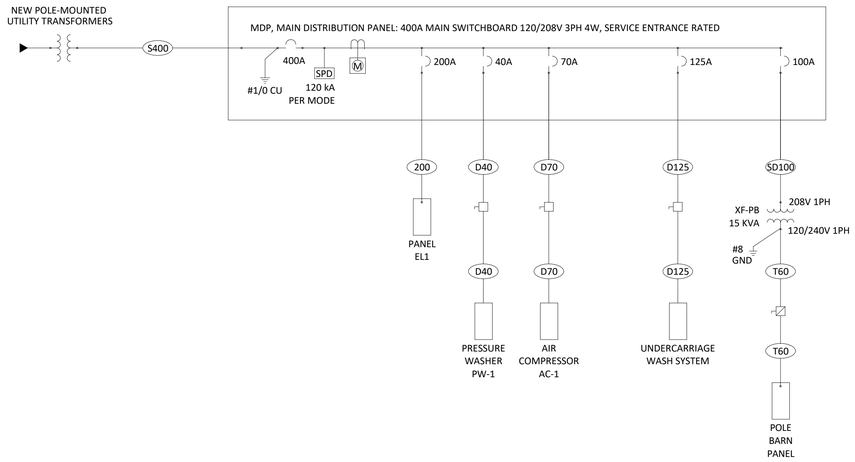
SHEET TITLE

## FIRST FLOOR POWER PLAN

E201

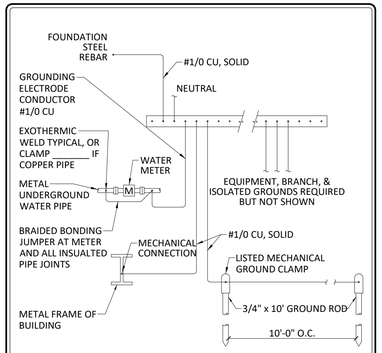



DEMO ELECTRICAL SINGLE-LINE DIAGRAM




NEW ELECTRICAL SINGLE-LINE DIAGRAM

## GROUNDING ELECTRODE SYSTEM




NOTE:
ALL WIRE SIZES SHOWN ARE MINIMUM SIZE TO BE INSTALLED. ALL GROUNDING ELECTRODE CONDUCTOR SIZES SHALL CONFORM TO NEC 250-66.

SCALE: NONE

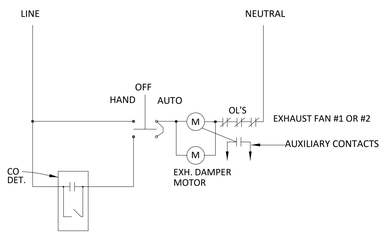
## FEEDER SCHEDULE

| FEEDER TAG # | COPPER (CU) FEEDER | | | | | ALUMINUM (AL) FEEDER | | | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | NUMBER OF SETS | NUMBER OF CONDUCTORS | WIRE SIZE | GROUND SIZE | CONDUIT SIZE | NUMBER OF SETS | NUMBER OF CONDUCTORS | WIRE SIZE | GROUND SIZE | CONDUIT SIZE | |
| SERVICE ENTRANCE CONDUCTORS 3-PHASE 4-WIRE | | | | | | | | | | | |
| S400 | 1 | 4 | 600 | - | 4" | - | - | N/A | - | - | - |
| EQUIPMENT FEEDER 3-PHASE 4-WIRE | | | | | | | | | | | |
| D400 | 1 | 3 | 600 | 3 | 3.5" | 1 | 3 | 900 | 1 | 4" | 1 |
| D350 | 1 | 3 | 500 | 3 | 3.5" | 1 | 3 | 750 | 1 | 3.5" | 1 |
| D300 | 1 | 3 | 350 | 4 | 2.5" | 1 | 3 | 500 | 2 | 3" | 1 |
| D250 | 1 | 3 | 250 | 4 | 2.5" | 1 | 3 | 400 | 2 | 3" | 1 |
| D225 | 1 | 3 | 4/0 | 4 | 2.5" | 1 | 3 | 350 | 2 | 2.5" | 1 |
| D200 | 1 | 3 | 3/0 | 6 | 2" | 1 | 3 | 250 | 4 | 2.5" | 1 |
| D175 | 1 | 3 | 2/0 | 6 | 1.5" | 1 | 3 | 4/0 | 4 | 2" | 1 |
| D150 | 1 | 3 | 1/0 | 6 | 1.5" | 1 | 3 | 3/0 | 4 | 2" | 1 |
| D125 | 1 | 3 | 1 | 6 | 1.25" | 1 | 3 | 2/0 | 4 | 1.5" | 1 |
| D110 | 1 | 3 | 1 | 6 | 1.25" | 1 | 3 | 2/0 | 4 | 1.5" | 1 |
| D100 | 1 | 3 | 2 | 8 | 1.25" | 1 | 3 | 1/0 | 6 | 1.5" | 1 |
| D90 | 1 | 3 | 2 | 8 | 1.25" | - | - | N/A | - | - | 1 |
| D80 | 1 | 3 | 4 | 8 | 1" | - | - | N/A | - | - | 1 |
| D70 | 1 | 3 | 4 | 8 | 1" | - | - | N/A | - | - | 1 |
| D60 | 1 | 3 | 6 | 10 | 1" | - | - | N/A | - | - | 1 |
| D50 | 1 | 3 | 6 | 10 | 1" | - | - | N/A | - | - | 1 |
| D45 | 1 | 3 | 6 | 10 | 1" | - | - | N/A | - | - | 1 |
| D40 | 1 | 3 | 8 | 10 | 0.75" | - | - | N/A | - | - | 1 |
| D35 | 1 | 3 | 8 | 10 | 0.75" | - | - | N/A | - | - | 1 |
| D30 | 1 | 3 | 10 | 10 | 0.75" | - | - | N/A | - | - | 1 |
| PANEL OR EQUIPMENT FEEDER 3-PHASE 4-WIRE | | | | | | | | | | | |
| 400 | 1 | 4 | 600 | 3 | 3.5" | 1 | 4 | 900 | 1 | 4" | 1 |
| 350 | 1 | 4 | 500 | 3 | 3.5" | 1 | 4 | 750 | 1 | 4" | 1 |
| 300 | 1 | 4 | 350 | 4 | 3" | 1 | 4 | 500 | 2 | 3.5" | 1 |
| 250 | 1 | 4 | 250 | 4 | 2.5" | 1 | 4 | 400 | 2 | 3" | 1 |
| 225 | 1 | 4 | 4/0 | 4 | 2.5" | 1 | 4 | 350 | 2 | 3" | 1 |
| 200 | 1 | 4 | 3/0 | 6 | 2" | 1 | 4 | 250 | 4 | 2.5" | 1 |
| 175 | 1 | 4 | 2/0 | 6 | 2" | 1 | 4 | 4/0 | 4 | 2.5" | 1 |
| 150 | 1 | 4 | 1/0 | 6 | 2" | 1 | 4 | 3/0 | 4 | 2" | 1 |
| 125 | 1 | 4 | 1 | 6 | 1.5" | 1 | 4 | 2/0 | 4 | 2" | 1 |
| 110 | 1 | 4 | 2 | 6 | 1.25" | 1 | 4 | 2/0 | 4 | 2" | 1 |
| 100 | 1 | 4 | 2 | 8 | 1.25" | 1 | 4 | 1/0 | 6 | 2" | 1 |
| 90 | 1 | 4 | 2 | 8 | 1.25" | - | - | N/A | - | - | 1 |
| 80 | 1 | 4 | 4 | 8 | 1.25" | - | - | N/A | - | - | 1 |
| 70 | 1 | 4 | 4 | 8 | 1.25" | - | - | N/A | - | - | 1 |
| 60 | 1 | 4 | 6 | 10 | 1.25" | - | - | N/A | - | - | 1 |
| 50 | 1 | 4 | 6 | 10 | 1" | - | - | N/A | - | - | 1 |
| 45 | 1 | 4 | 6 | 10 | 1" | - | - | N/A | - | - | 1 |
| 40 | 1 | 4 | 8 | 10 | 0.75" | - | - | N/A | - | - | 1 |
| 35 | 1 | 4 | 8 | 10 | 0.75" | - | - | N/A | - | - | 1 |
| 30 | 1 | 4 | 10 | 10 | 0.75" | - | - | N/A | - | - | 1 |
| XFMR SECONDARY CONDUCTORS 1-PHASE 3-WIRE | | | | | | | | | | | |
| T60 15KVA | 1 | 2 | 2 | 6 | 1" | - | - | - | - | - | 1 |
| EQUIPMENT FEEDER 1-PHASE 2-WIRE | | | | | | | | | | | |
| SD100 | 1 | 2 | 2 | 8 | 1" | 1 | 3 | 1/0 | 6 | 1" | 1 |

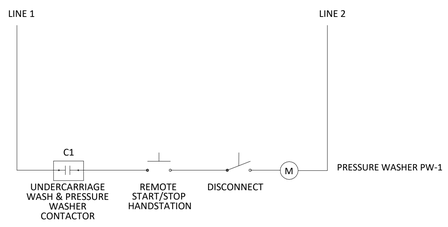
NOTES:
1. FEEDER SHALL BE INSTALLED IN 1-HOUR FIRE RATED ASSEMBLY WHERE USED AS FEEDER CIRCUIT FOR EMERGENCY SYSTEM(NEC 700.9D).
2. FEEDER SHALL BE INSTALLED IN 2-HOUR FIRE RATED ASSEMBLY (NEC 695.6). MI CABLE OR SUITABLE FIRE-RESISTANT CABLE MAY BE USED AT CONTRACTORS OPTION.

## SINGLE LINE LEGEND

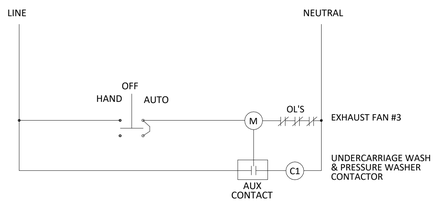
- HIGH VOLTAGE TERMINATION
- LA — LIGHTNING ARRESTER
- GFP — GROUND FAULT PROTECTOR
- M — METER
- NF DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- 400/300 — FUSED SWITCH
- CIRCUIT BREAKER
- DRAW OUT CIRCUIT BREAKER
- TRANSFORMER
- GROUND CONNECTION
- MAIN LUG BUSSING
- MAIN LUG ONLY PANELBOARD
- DOUBLE SET OF MAIN LUGS PANELBOARD
- MAIN BREAKER PANELBOARD
- G — GENERATOR
- N E L — AUTOMATIC TRANSFER SWITCH



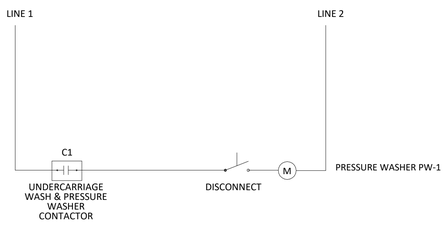

EF-1 & EF-2 CONTROL DIAGRAM




PRESSURE WASHER CONTROL DIAGRAM




EF-3 CONTROL DIAGRAM




UNDERCARRIAGE WASH CONTROL DIAGRAM

JMSA ARCHITECTURE
Jerome M. Scott Architects
1020 Goodale Blvd
Columbus, Ohio
43212

Dynamix Engineering
A VEREGY COMPANY
855 Grandview Avenue, 3rd Floor Columbus, OH 43215
Phone: (614) 443-1178 Fax: (614) 443-1594
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SHEET TITLE

## SINGLE LINE DIAGRAM

## EQUIPMENT STARTERS AND DISCONNECTS

| EQUIPMENT DESIGNATION | EQUIPMENT SERVED | HP (KVA) | NOTES | VOLTAGE: 120V-1PH | 208V-1PH | 208V-3PH | 277V-1PH | 480V-3PH | STARTER: NEMA SIZE | MAGNETIC | MANUAL | MANUAL STARTER AND CONTACTOR | VAR FREQ DRIVE | INTEGRAL OVERLD | IN MCC | SEE NOTE | FURNISHED BY | DISCONNECT MEANS: DISCONNECT SW | MANUAL STARTER | CORD & PLUG | STARTER DISC | SWITCH OR BKER | SEE NOTE | FURNISHED BY | CONTROL: MANUAL | INTEGRAL | SEE NOTE | FURNISHED BY | FEEDER SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EF-1 | EXHAUST FAN #1 | 1.5 | -- | | ◦ | | | | 0 | ◦ | | | | | | 8 | EC | | | | | ◦ | 8 | EC | ◦ | | 2 | EC | 2 - #10, 1 - #10 GRD, 3/4" C |
| EF-2 | EXHAUST FAN #2 | 1.5 | -- | | ◦ | | | | 0 | ◦ | | | | | | 8 | EC | | | | | ◦ | 8 | EC | ◦ | | 2 | EC | 2 - #10, 1 - #10 GRD, 3/4" C |
| EF-3 | EXHAUST FAN #3 | 1/4 | -- | | | | | | | | | | | | | | HC | | | | | | | HC | ◦ | | 1 | EC | 2 - #10, 1 - #10 GRD, 3/4" C |
| EF-4 | EXHAUST FAN #4 | (.128) | -- | ◦ | | | | | | | | | | ◦ | | | EC | | | | | ◦ | 5 | EC | ◦ | | 7 | EC | 2 - #10, 1 - #10 GRD, 3/4" C |
| EF-5 | EXHAUST FAN #5 | 1/4 | -- | ◦ | | | | | | | | | | ◦ | | | EC | | | | | ◦ | 5 | EC | ◦ | | 3 | EC | 2 - #10, 1 - #10 GRD, 3/4" C |
| FCU-1 | FAN COIL UNIT #1 | 2.88A | -- | | ◦ | | | | | | | | | ◦ | | | HC | ◦ | | | | | 6 | EC | | ◦ | | | HC | 2 - #10, 1 - #10 GRD, 3/4" C |
| HP-1 | HEAT PUMP #1 | 26A | -- | | ◦ | | | | | | | | | ◦ | | | HC | ◦ | | | | | 4 | EC | | ◦ | | | HC | 2 - #8, 1 - #10 GRD, 3/4" C |
| EWH-1 | ELECTRIC WALL HEATER #1 | (1.5) | -- | ◦ | | | | | | | | | | ◦ | | | HC | ◦ | | | | | | HC | | ◦ | | | HC | 2 - #10, 1 - #10 GRD, 3/4" C |
| EWH-2 | ELECTRIC WALL HEATER #2 | (1.5) | -- | ◦ | | | | | | | | | | ◦ | | | HC | ◦ | | | | | | HC | | ◦ | | | HC | 2 - #10, 1 - #10 GRD, 3/4" C |
| EUH-1 | UNIT HEATER #1 | (5) | -- | | ◦ | | | | | | | | | ◦ | | | HC | ◦ | | | | | | EC | | ◦ | | | HC | 2 - #8, 1 - #10 GRD, 3/4" C |
| IRH-1 | INFRARED HEATER #1 | .3A | -- | ◦ | | | | | | | | | | ◦ | | | HC | | ◦ | | | | | EC | | ◦ | | | HC | 2 - #10, 1 - #10 GRD, 3/4" C |
| IRH-2 | INFRARED HEATER #2 | .3A | -- | ◦ | | | | | | | | | | ◦ | | | HC | | ◦ | | | | | EC | | ◦ | | | HC | 2 - #10, 1 - #10 GRD, 3/4" C |
| IRH-3 | INFRARED HEATER #3 | .3A | -- | ◦ | | | | | | | | | | ◦ | | | HC | | ◦ | | | | | EC | | ◦ | | | HC | 2 - #10, 1 - #10 GRD, 3/4" C |
| IRH-4 | INFRARED HEATER #4 | .3A | -- | ◦ | | | | | | | | | | ◦ | | | HC | | ◦ | | | | | EC | | ◦ | | | HC | 2 - #10, 1 - #10 GRD, 3/4" C |
| IRH-5 | INFRARED HEATER #5 | .3A | -- | ◦ | | | | | | | | | | ◦ | | | HC | | ◦ | | | | | EC | | ◦ | | | HC | 2 - #10, 1 - #10 GRD, 3/4" C |
| IRH-6 | INFRARED HEATER #6 | .3A | -- | ◦ | | | | | | | | | | ◦ | | | HC | | ◦ | | | | | EC | | ◦ | | | HC | 2 - #10, 1 - #10 GRD, 3/4" C |
| EH-1 | ELECTRIC WATER HEATER #1 | (2.5) | -- | | ◦ | | | | | | | | | ◦ | | | HC | | ◦ | | | | | EC | | ◦ | | | HC | 2 - #10, 1 - #10 GRD, 3/4" C |

NOTES
1.- INTERLOCK WITH HUMIDISTAT WITH A TIME DELAY FEATURE.
2.- REFER TO CONTROL DETAILS.
3.- PROVIDE ELECTRONIC TIMER SWITCH.
4. PROVIDE 60A 3P 250V DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE.
5.- PROVIDE A MOTOR RATED TOGGLE SWITCH ADJACENT TO EQUIPMENT.
6.- FCU-1 FED FROM OUTDOOR UNIT HP-1.
7. VFD UNDER TEMPORARY OVERRIDE BY OWNER.
8.- PROVIDE 30A, 3P NEMA 3R COMBINATION STARTER DISCONNECT WITH 24 VAC CONTROL COIL. PROVIDE STARTER WITH SOLID STATE OVERLOAD PROTECTION.

## LIGHTING FIXTURES

| FIXTURE DESIGNATION | VOLTAGE | MANUFACTURER AND CATALOG NUMBER | FIXTURE DESCRIPTION | LAMPS: CATALOG NUMBER | MOUNTING OPTIONS: AC - AIRCRAFT CABLE, C - CHAIN, CM - CEILING MOUNT, P - STEM, R - RECESSED, S - SURFACE, UC - UNDER CABINET, W - WALL, UV - UNIVERSAL | APPROVED EQUALS | REFER TO NOTE(S) |
|---|---|---|---|---|---|---|---|
| E1 | 120 | LITHONIA LQMSW3R-120/277 | THERMO PLASTIC LED EXIT W/ RED LETTERS | 3W LED | S | DUAL-LITE, CHLORIDE, SURE-LITES | |
| E1W | 120 | TLS CEX-L | THERMO PLASTIC LED EXIT W/ RED LETTERS, WASHDOWN AREA | 6W LED | S | DUAL-LITE, CHLORIDE, SURE-LITES | |
| R1 | 120 | LITHONIA 2GTI 2 40I GZ10 LP840 | 2X2 LED LAY-IN TROFFER WITH ACRYLIC LENS | 35W LED | R | COLUMBIA, METALUX, DAY-BRITE | |
| CL1 | 120 | LITHONIA IBH-9000LM-SD080-MD-MVOLT-OZ10-40K-80CRI-LAOZU | HIGH BAY RECTANGULAR LED FIXTURE, ACRYLIC LENS. 9,000 MIN. LUMENS, DAMP LOCATION, CHAIN HUNG, 4000K, 360 MOTION SENSOR 120V | 112W LED | C | COLUMBIA, METALUX, DAY-BRITE | 2 |
| C1 | 120 | LITHONIA LDN6 40/15 LO6AR LSS MVOLT GZ10 | 6" DOWNLIGHT, 4000K, 1500 LUMENS | 22.5W LED | C | COLUMBIA, METALUX, DAY-BRITE | |
| W9 | 120 | GARDCO 101L-32L-530-NW-G1-4-UNV-BZ | POLYCARBONATE LED WALL PACK, TYPE IV DIST, BRONZE FINISH | 27W LED | W | LITHONIA, KIM, LUMARK | 1 |
| CL4 | 120 | FEM L48 6000LM IMAFD MD MVOLT GZ10 40K 80CRI WLF STSL | 4' ENCLOSED GASKETED, WET LOCATION FIXTURE WITH ACRYLIC LENS 6000 LUMENS, CHAIN HUNG, STAINLESS STEEL LATCHES, 80 CRI | 37.2W LED | C | COLUMBIA, METALUX, DAY-BRITE | 2 |
| SP1 | 120 | RAB X34-150L SF U | DIRECTIONAL SPOTLIGHT, SLIPFITTER MOUNT, 18,000 LUMENS, 80 CRI, 5000K, BRONZE | 160W LED | C | COLUMBIA, METALUX, DAY-BRITE | 2 |

NOTES:
1.- PROVIDE WITH INTEGRAL PHOTOCELL.
2.- COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS.

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### PANEL: MDP

| CONN. LOAD: | 101.4 KW | DEMAND LOAD: | 100.8 KVA | NF TYPE |
|---|---|---|---|---|
| | 281.5 AMPS | | 279.8 AMPS | SQUARE D |

MAIN: 400A MLO — VOLTAGE: 208 | 120 , 3PH, 4W. — AIC: 25,000
MTG: SURFACE — LOCATION: MEP AREA — NEMA 1

| LOAD TYPE | REMARKS | KW | BKR. | OPT | CIRCUIT NUMBER AND PHASE | | | OPT | BKR. | KW | REMARKS | LOAD TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H | EH-1 | 1.25 | 20/2 | | 1 | A | 2 | | 20/1 | 0.54 | WASH BAY RCPTS | R |
| H | | 1.25 | | | 3 | B | 4 | | 20/1 | 0.36 | TRUCK STORAGE RCPTS | R |
| R | READY ROOM RCPTS | 0.72 | 20/1 | | 5 | C | 6 | | 20/1 | 0.36 | TRUCK STORAGE RCPTS | R |
| R | READY ROOM RCPTS | 0.90 | 20/1 | | 7 | A | 8 | | 20/1 | 0.36 | TRUCK STORAGE RCPTS | R |
| R | READY ROOM RCPTS | 0.90 | 20/1 | | 9 | B | 10 | | 20/1 | 0.90 | TRUCK STORAGE RCPTS | R |
| R | KITCHENETTE RCPTS | 0.54 | 20/1 | | 11 | C | 12 | | 20/1 | 0.50 | HOLDING TANK CTRL PNL | S |
| R | KITCHENETTE RCPTS | 0.72 | 20/1 | | 13 | A | 14 | | 20/1 | 1.50 | EWH-1 | H |
| R | OFFICE RCPTS | 0.72 | 20/1 | | 15 | B | 16 | | 125/2 | 7.50 | POLE BARN PANEL | S |
| R | MICROWAVE | 1.20 | 20/1 | | 17 | C | 18 | | | 7.50 | TRANSFORMER 15 KVA | S |
| H | EWH-2 | 1.50 | 20/1 | | 19 | A | 20 | | 20/1 | 1.54 | WASH BAY LTS | L |
| L | TRUCK STORAGE LTS | 0.63 | 20/1 | | 21 | B | 22 | | 20/1 | 0.22 | EXTERIOR LTS | L |
| L | TRUCK STORAGE LTS | 0.63 | 20/1 | | 23 | C | 24 | | 40/3 | 2.04 | PRESSURE WASHER | M |
| L | TRUCK STORAGE LTS | 0.63 | 20/1 | | 25 | A | 26 | | | 2.04 | | M |
| | SPARE | | 20/1 | | 27 | B | 28 | | | 2.04 | | M |
| | SPARE | | 20/1 | | 29 | C | 30 | | 20/1 | 0.70 | PW DRAFT INDUCER | M |
| L | OFFICE LTS | 0.55 | 20/1 | | 31 | A | 32 | | 20/1 | | SPARE | |
| M | GARBAGE DISPOSAL | 0.56 | 20/1 | | 33 | B | 34 | | 70/3 | 3.73 | AIR COMPRESSOR | M |
| M | UNDERCARRIAGE WASH | 6.21 | 125/3 | | 35 | C | 36 | | | 3.73 | | M |
| M | SYSTEM | 6.21 | | | 37 | A | 38 | | | 3.73 | | M |
| M | | 6.21 | | | 39 | B | 40 | | 20/1 | | SPARE | |
| | SPARE | | 20/1 | | 41 | C | 42 | | 20/1 | | SPARE | |
| | SPARE | | 20/1 | | 43 | A | 44 | | 20/1 | | SPARE | |
| | SPARE | | 20/1 | | 45 | B | 46 | | 20/1 | | SPARE | |
| | SPARE | | 20/1 | | 47 | C | 48 | | 20/1 | | SPARE | |
| | SPARE | | 20/1 | | 49 | A | 50 | | 200/3 | | PANEL EL1 | |
| | SPARE | | 20/1 | | 51 | B | 52 | | | | | |
| | SPARE | | 20/1 | | 53 | C | 54 | | | | | |

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### PANEL: EL1

| CONN. LOAD: | 30.6 KW | DEMAND LOAD: | 31.1 KVA | NF TYPE |
|---|---|---|---|---|
| | 85.1 AMPS | | 86.3 AMPS | SQUARE D |

MAIN: 200A MLO — VOLTAGE: 208 | 120 , 3PH, 4W. — AIC: 25,000
MTG: SURFACE — LOCATION: MEP AREA — NEMA 1

| LOAD TYPE | REMARKS | KW | BKR. | OPT | CIRCUIT NUMBER AND PHASE | | | OPT | BKR. | KW | REMARKS | LOAD TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H | IWH-1 | 0.18 | 20/1 | | 1 | A | 2 | | 40/2 | 2.43 | HP-1 | H |
| H | IWH-2 | 0.18 | 20/1 | | 3 | B | 4 | | | 2.43 | | H |
| H | EUH-1 | 2.50 | 40/2 | | 5 | C | 6 | | 20/1 | | SPARE | |
| | | | | | 7 | A | 8 | | 20/1 | | SPARE | |
| | SPARE | | 20/1 | | 9 | B | 10 | | 20/1 | 0.50 | ELECTRONIC LOCKS | R |
| | SPARE | | 20/1 | | 11 | C | 12 | | 20/1 | 0.50 | CARD READER | R |
| M | EF-3 | 0.19 | 20/1 | | 13 | A | 14 | | 20/1 | 0.25 | IRH-1 THRU IRH-6 | H |
| M | EF-4 | 0.13 | 20/1 | | 15 | B | 16 | | 20/1 | 0.37 | TRUCK STORAGE DOOR | M |
| M | EF-5 | 0.19 | 20/1 | | 17 | C | 18 | | 20/1 | 0.37 | TRUCK STORAGE DOOR | M |
| M | WASH BAY DOOR | 0.37 | 20/1 | | 19 | A | 20 | | 20/1 | 0.37 | TRUCK STORAGE DOOR | M |
| M | TRUCK STORAGE DOOR | 0.37 | 20/1 | | 21 | B | 22 | | 20/1 | 0.37 | TRUCK STORAGE DOOR | M |
| M | TRUCK STORAGE DOOR | 0.37 | 20/1 | | 23 | C | 24 | | 20/1 | 1.20 | TECH PANEL | R |
| M | TRUCK STORAGE DOOR | 0.37 | 20/1 | | 25 | A | 26 | | 20/1 | 0.25 | FUEL ISLAND LTS | L |
| L | EMERGENCY LIGHTING | 1.50 | 20/1 | | 27 | B | 28 | | 20/1 | 0.50 | GAS DISPENSER | R |
| R | RADIANT HEAT CTRL PNL | 0.80 | 20/1 | | 29 | C | 30 | | 20/1 | 0.50 | DIESEL DISPENSER | R |
| R | GAS DETECTION PANEL | 0.50 | 20/1 | | 31 | A | 32 | | 20/1 | 1.00 | SECURITY PANEL | R |
| M | GATE CONTROL | 0.50 | 20/1 | | 33 | B | 34 | | 20/1 | 0.50 | FUEL E-STOP | R |
| M | WELL PUMP | 1.24 | 30/3 | | 35 | C | 36 | | 20/2 | 1.25 | BRINE MAKER | H |
| M | | 1.24 | | | 37 | A | 38 | | | 1.25 | | H |
| M | | 1.24 | | | 39 | B | 40 | | 20/3 | 0.37 | EF-2 | M |
| M | EF-1 | 0.37 | 20/3 | | 41 | C | 42 | | | 0.37 | | M |
| M | | 0.37 | | | 43 | A | 44 | | | 0.37 | | M |
| M | | 0.37 | | | 45 | B | 46 | | 20/1 | | SPARE | |
| | SPARE | | 20/1 | | 47 | C | 48 | | 20/1 | | SPARE | |
| | SPARE | | 20/1 | | 49 | A | 50 | | 20/1 | | SPARE | |
| | SPARE | | 20/1 | | 51 | B | 52 | | 20/1 | | SPARE | |
| | SPARE | | 20/1 | | 53 | C | 54 | | 20/1 | | SPARE | |


JMSA ARCHITECTURE

Jerome M. Scott Architects
1020 Goodale Blvd
Columbus, Ohio
43212

Dynamix Engineering
A VEREGY COMPANY
855 Grandview Avenue, 3rd Floor Columbus, OH 43215
Phone: (614) 443-1178 Fax: (614) 443-1594
Email: dynamix@dynamix-ltd.com
DEL #21-179


DOUGLAS SMITH — 74918 — REGISTERED PROFESSIONAL ENGINEER

DOT-200023 ODOT - EATON OUTPOST

CONSTRUCTION DOCUMENTS

5656 US-127 Eaton, Ohio 45320

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 3 | 03/11/22 | Revision 3 |
| 2 | 03/11/22 | Revision 2 / Conformance Set |
| 1 | 12/17/21 | Revision 1 Permit / Bid Set |
| | 12/10/21 | Bid Set |
| | 11/12/21 | Permit Set |

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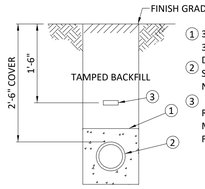
SHEET TITLE

ELECTRICAL SCHEDULES

E501

## UNDERGROUND DUCT /




1. 3000 LB. CONCRETE ENCASEMENT. 3" MIN. FROM OUTSIDE OF DUCT.
2. SCHEDULE 40 PVC DUCT. SIZE AS NOTED ON PLANS.
3. RED DYE, RED DUST OR YELLOW MARKER TAPE ON COMPACTED FILL.

SCALE: NONE

## UNDERGROUND DUCTS /

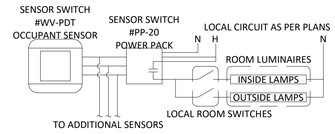



1. 3000 LB. CONCRETE
2. SCHEDULE 40 PVC DUCT. SIZE AS NOTED ON PLANS.
3. MIN. 3" SPACING BETWEEN CONDUITS AND MIN. 3" ENCASEMENT (TYPICAL). PROVIDE
4. CONDUIT SPACERS 6'-0" O.C.

RED DYE, RED DUST OR YELLOW MARKER TAPE ON COMPACTED FILL.

SCALE: NONE

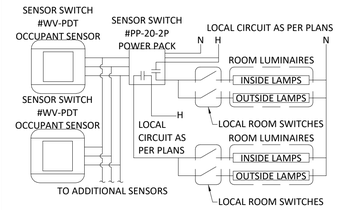
## OCCUPANT SENSOR #1 /




NOTES:
1.- ALL LOW VOLTAGE WIRING BETWEEN SENSOR AND POWER PACK SHALL BE #18 AND PLENUM RATED. ALL OTHER WIRING SHALL BE IN CONDUIT. POWER PACKS SHALL BE INSTALLED INSIDE OF EXTRA DEEP JUNCTION BOX.
2.- WALL MOUNT OCCUPANT SENSOR IN CORNER WHERE SHOWN AT 8'0" A.F.F.
3.- EQUALS BY WATT STOPPER, NOVITAS OR LEVITON.

SCALE: NONE

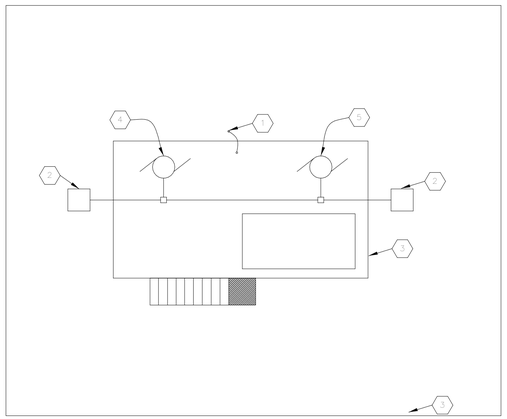
## OCCUPANT SENSOR #2 /




NOTES:
1.- ALL LOW VOLTAGE WIRING BETWEEN SENSOR AND POWER PACK SHALL BE #18 AND PLENUM RATED. ALL OTHER WIRING SHALL BE IN CONDUIT. POWER PACKS SHALL BE INSTALLED INSIDE OF EXTRA DEEP JUNCTION BOX.
2.- WALL MOUNT OCCUPANT SENSORS AT 9'0" A.F.F. WHERE SHOWN ON PLANS. QUANTITY OF DETECTORS AS SHOWN ON PLANS.
3.- NUMBER AND CONFIGURATION OF MANUAL SWITCHES AS SHOWN ON THE PLANS. NOT ALL ROOMS WILL HAVE DUAL LEVEL SWITCHING.
4.- EQUALS BY WATT STOPPER, NOVITAS OR LEVITON.

SCALE: NONE

## ABOVE GROUND FUEL STATION GROUNDING PLAN /




ELECTRICAL CODED NOTES FOR FUEL STATION GROUNDING ⬡

1. 5/8" X 10'-0" LONG GROUND ROD.
2. EXISTING REMOTE FUEL DISPENSER.
3. EXISTING CONCRETE PAD AND APRON.
4. EXISTING DIESEL PUMP, 120/1 WITH INTEGRAL SWITCH. WIRE THRU SHUT-OFF CONTACTOR IN READY ROOM AND TO CIRCUIT INDICATED IN A 3/4" PVC CONDUIT.
5. EXISTING GASOLINE PUMP, 120/1 WITH INTEGRAL SWITCH. WIRE THRU SHUT-OFF CONTACTOR IN READY ROOM AND TO CIRCUIT INDICATED IN A 3/4" PVC CONDUIT.


JMSA ARCHITECTURE

Jerome M. Scott Architects
1020 Goodale Blvd
Columbus, Ohio
43212

Dynamix Engineering
A VEREGY COMPANY
855 Grandview Avenue, 3rd Floor Columbus, OH 43215
Phone: (614) 443-1178 Fax: (614) 443-1594
Email: dynamix@dynamix-ltd.com
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SHEET TITLE

ELECTRICAL DETAILS

E601

## TECHNOLOGY PATHWAYS LEGEND

| SYMBOL | SECTION | DESCRIPTION | BACKBOX REQUIREMENT | CONDUIT REQUIREMENT | MNT HGT |
|---|---|---|---|---|---|
| TMGB | 270500 | TELECOMMUNICATIONS MAIN GROUND BAR (TMGB). | N/A | N/A | 72" AFF |
| TGB | 270500 | TELECOMMUNICATIONS GROUND BAR (TGB). | N/A | N/A | 72" AFF |
| | DIV 26 | TELECOMMUNICATIONS SLEEVE OR CONDUIT, SIZE AND QUANTITY AS INDICATED ON DRAWINGS. | N/A | REFER TO DRAWINGS | ABOVE CEILING |
| | DIV 26 | TELECOMMUNICATIONS JUNCTION BOX, 4" SQUARE W/COVER, UNLESS NOTED OTHERWISE. | N/A | REFER TO DRAWINGS | VARIES |
| | | | | | |

## STRUCTURED CABLING LEGEND

| SYMBOL | SECTION | DESCRIPTION | BACKBOX REQUIREMENT | CONDUIT REQUIREMENT | MNT HGT |
|---|---|---|---|---|---|
| ID | 271500 | DATA OUTLET (WALL). "#D" INDICATES QUANTITY OF OUTLETS REQUIRED. REFER TO THE FACEPLATE DETAILS FOR ADDITIONAL INFORMATION. | 3-1/2" DEEP, SINGLE GANG BACKBOX | (1) 1" CONDUIT TO NETWORK CABINET | 16" AFF OR AS NOTED |
| | 271500 | VoIP OUTLET. REFER TO THE FACEPLATE DETAILS. | 3-1/2" DEEP, SINGLE GANG BACKBOX | (1) 1" CONDUIT TO NETWORK CABINET | 16" AFF OR AS NOTED |
| IDIV | 271500 | DATA & VOICE OUTLET (WALL). "#D" & "#V" INDICATE QUANTITY OF OUTLETS REQUIRED. REFER TO THE FACEPLATE DETAILS. | 3-1/2" DEEP, SINGLE GANG BACKBOX | (1) 1" CONDUIT TO NETWORK CABINET | 16" AFF OR AS NOTED |
| W | 271500 | VoIP WALL PHONE OUTLET. REFER TO THE FACEPLATE DETAILS. | 3-1/2" DEEP, SINGLE GANG BACKBOX | (1) 1" CONDUIT TO NETWORK CABINET | 44" AFF |
| TV | 271500 | TV OUTLET WITH TV. REFER TO THE FACEPLATE DETAILS AND A/V SYSTEM DETAILS FOR ADDITIONAL INFORMATION. | 3-1/2" DEEP, SINGLE GANG BACKBOX | (1) 1" CONDUIT TO NETWORK CABINET | AS NOTED |
| AP | 271500 | WIRELESS ACCESS POINT OUTLET. REFER TO THE FACEPLATE DETAILS FOR ADDITIONAL INFORMATION. | 2-PORT BISCUIT BLOCK | N/A | ABOVE CEILING |
| | 271500 275123 | WALL MOUNTED PAGING HORN. | N/A | (1) 1" CONDUIT TO NETWORK CABINET | 10'-0" AFF |
| | | | | | |

## SECURITY SYSTEMS LEGEND

| SYMBOL | SECTION | DESCRIPTION | BACKBOX REQUIREMENT | CONDUIT REQUIREMENT | MNT HGT |
|---|---|---|---|---|---|
| PR | DIV 26 | SECURITY SYSTEM PROXIMITY CARD READER. ROUGH-IN ONLY. | REFER TO THE SECURITY SYSTEM ROUGH-IN DETAILS | (1) 3/4" CONDUIT WITH PULL STRING TO SECURITY EQUIPMENT | 44" AFF |
| EL | DIV 26 | ELECTRIC LOCK PROVIDED BY THE DOOR HARDWARE SUPPLIER. ROUGH-IN ONLY. | REFER TO THE SECURITY SYSTEM ROUGH-IN DETAILS | (1) 3/4" CONDUIT WITH PULL STRING TO SECURITY EQUIPMENT | N/A |
| DC | DIV 26 | SECURITY SYSTEM DOOR CONTACT. ROUGH-IN ONLY. | REFER TO THE SECURITY SYSTEM ROUGH-IN DETAILS | (1) 3/4" CONDUIT WITH PULL STRING TO SECURITY EQUIPMENT | N/A |
| REX | DIV 26 | REQUEST TO EXIT DEVICE. ROUGH-IN ONLY. | REFER TO THE SECURITY SYSTEM ROUGH-IN DETAILS | (1) 3/4" CONDUIT WITH PULL STRING TO SECURITY EQUIPMENT | N/A |
| | DIV 26 | WALL MOUNTED CCTV CAMERA. ROUGH-IN ONLY. | REFER TO THE SECURITY SYSTEM ROUGH-IN DETAILS | (1) 3/4" CONDUIT WITH PULL STRING TO SECURITY EQUIPMENT | FIELD COORDINATE |
| | | | | | |

## TECHNOLOGY GENERAL NOTES

A. ANY ADDITIONAL SLEEVES AND/OR PENETRATIONS REQUIRED FOR THE INSTALLATION OF LOW VOLTAGE SYSTEM CABLING NOT SHOWN ON THESE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR INSTALLING THE LOW VOLTAGE SYSTEM.
B. UNDER NO CIRCUMSTANCES SHALL ANY LOW VOLTAGE SYSTEM'S CABLES BE LOCATED IN A PATHWAY CONTAINING ANY OTHER SYSTEM'S CABLING. PROVIDE FIRE-RATED SLEEVES AT ALL FIRE WALL PENETRATIONS AND WALL PENETRATIONS WHERE THE WALL EXTENDS ALL THE WAY TO THE DECK ABOVE.
C. REFER TO THE ARCHITECTURAL INTERIOR ELEVATIONS FOR DEVICE LOCATIONS AND MOUNTING HEIGHTS WHEN LOCATED AT OR ABOVE CASEWORK. COORDINATE EXACT DEVICE LOCATIONS PRIOR TO ROUGH-IN.
D. CONDUITS AND PULLBOXES SHALL CONFORM TO THE LATEST EDITION OF EIA/TIA/568. IN GENERAL, CONDUITS SHALL:
   a. NOT HAVE MORE THAN (2) 90-DEGREE BENDS BETWEEN PULL POINTS.
   b. NOT HAVE MORE THAN 100' BETWEEN PULL POINTS.
   c. NOT HAVE A PULLBOX INSTALLED IN PLACE OF A 90-DEGREE BEND.
E. ALL CONDUITS SHALL BE BUSHED AT BOTH ENDS AND PROVIDED WITH A PULL STRING FOR FUTURE CABLE PLACEMENT. CONDUITS SCHEDULED TO BE STUBBED ABOVE THE CEILING SHALL BE TERMINATED PERPENDICULAR TO THE WALL SURFACE. CONDUITS SCHEDULED TO BE ROUTED TO THE CABLE TRAY SHALL EXIT THE WALL CAVITY PERPENDICULAR TO THE SURFACE. CONDUITS SHALL TERMINATE ABOVE THE EDGE OF THE CABLE TRAY.
F. IN ROOMS WITH OPEN CEILINGS, CONDUITS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS. ANGLED CONDUITS WILL NOT BE PERMITTED. CONTRACTORS SHALL FIELD COORDINATE ALL DEVICE LOCATIONS PRIOR TO SURFACE MOUNTING EMT CONDUITS OR RACEWAY.
G. ANY LOW VOLTAGE CABLING IN AN OPEN-CEILING AREA (EXAMPLE: GARAGE) SHALL BE INSTALLED WITHIN CONDUIT BACK TO AN ACCESSIBLE CEILING WITH CABLE TRAY. ALL CONDUIT SHALL BE PAINTED TO MATCH THE SURROUNDING AREAS.
H. CABLING ASSOCIATED WITH THE WIRELESS ACCESS POINTS SHALL BE PROVIDED WITH A COIL OF CABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADJUST THE LOCATIONS OF THE WIRELESS ACCESS POINTS, AS REQUIRED, AFTER CONDUCTING A SITE VERIFICATION SURVEY TO ENSURE COVERAGE THROUGHOUT THE FACILITY.
I. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS WITH ALL FINAL OUTLET LABELING SHOWN ON THE FLOOR PLANS.
J. VOICE/DATA OUTLETS ARE TO BE WITHIN 6" OF AN ELECTRICAL POWER RECEPTACLE.
K. ALL HORIZONTAL AND BACKBONE LOW VOLTAGE CABLING SHALL BE INSTALLED IN CONDUIT.

## TECHNOLOGY ABBREVIATIONS

| | |
|---|---|
| AFC | ABOVE FINISHED COUNTER |
| AFF | ABOVE FINISHED FLOOR - HEIGHT TO BOTTOM |
| CAT | CATEGORY |
| ER | EQUIPMENT ROOM |
| MH | MOUNTING HEIGHT - HEIGHT TO CENTER |
| MM | MULTIMODE FIBER OPTIC CABLE |
| RU | RACK UNITS |
| SM | SINGLE MODE FIBER OPTIC CABLE |
| TR | TELECOMMUNICATIONS ROOM |
| TYP | TYPICAL |
| V | INTEGRATED VOLUME CONTROL |
| VoIP | VOICE OVER INTERNET PROTOCOL |
| WAP | WIRELESS ACCESS POINT |
| WG | WIRE GUARD |
| 3 | PLAN NOTE SYMBOL (APPLIES TO ENTIRE SHEET) |
| 1 | DETAIL NOTE SYMBOL (APPLIES ONLY TO DETAIL) |
| | |

## SYSTEMS SHEET INDEX


| | |
|---|---|
| T000 | TECHNOLOGY LEGENDS |
| T001 | TECHNOLOGY FACEPLATE DETAILS |
| T002 | TECHNOLOGY DETAILS |
| T003 | TECHNOLOGY DETAILS |
| TSU | TECHNOLOGY SITE UTILITY PLAN |
| T101 | FIRST FLOOR TECHNOLOGY PLAN |



JMSA ARCHITECTURE

Jerome M. Scott Architects
1020 Goodale Blvd
Columbus, Ohio
43212

Dynamix Engineering
A VEREGY COMPANY
855 Grandview Avenue, 3rd Floor Columbus, OH 43215
Phone: (614) 443-1178 Fax: (614) 443-1594
Email: dynamix@dynamix-ltd.com
DEL #21-179


DOUGLAS E. SMITH
PROFESSIONAL ENGINEER

DOT-200023 ODOT - EATON OUTPOST

CONSTRUCTION DOCUMENTS

5656 US-127 Eaton, Ohio 45320

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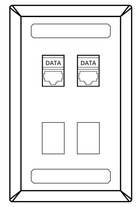
SHEET TITLE

TECHNOLOGY LEGENDS

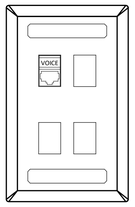
T000

## DATA OUTLET



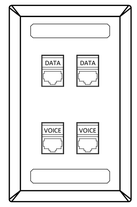

2D DATA OUTLET
- (2) CAT-6 CABLES TO TECHNOLOGY CABINET
- LABEL AS SHOWN IN DETAILS

## VOICE OUTLET



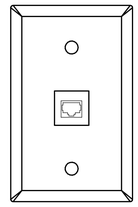

V VOICE OUTLET
- (1) CAT-6 CABLE TO TECHNOLOGY CABINET
- LABEL AS SHOWN IN DETAILS

## DATA/VOICE OUTLET



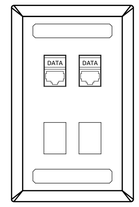

2D2V DATA/VOICE OUTLET
- (4) CAT-6 CABLES TO TECHNOLOGY CABINET
- LABEL AS SHOWN IN DETAILS

## WALL PHONE OUTLET



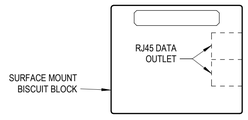
W WALL PHONE OUTLET
- (1) CAT-6 CABLE TO TECHNOLOGY CABINET
- LABEL AS SHOWN IN DETAILS

## TELEVISION OUTLET (STAND ALONE)



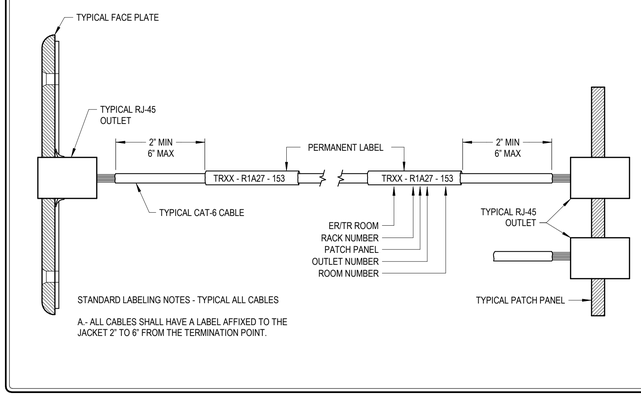

TV TV/MONITOR OUTLET
- (2) CAT-6 CABLE TO TECHNOLOGY CABINET
- LABEL AS SHOWN IN DETAILS

## WIRELESS ACCESS OUTLET




AP WIRELESS ACCESS OUTLET
- 10' CABLE COILED ABOVE ACCESSIBLE CEILING
- (2) CAT-6A CABLES TO TECHNOLOGY CABINET
- LABEL AS SHOWN IN DETAILS

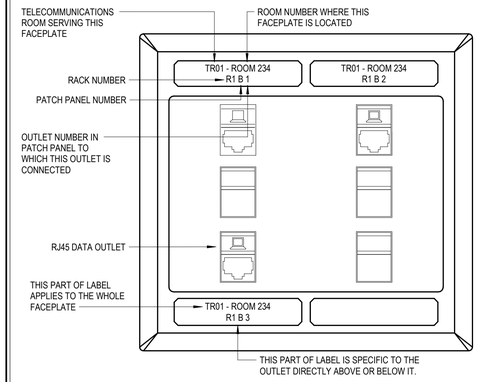
## TYPICAL CABLE LABELING OUTLET AND PATCH PANEL



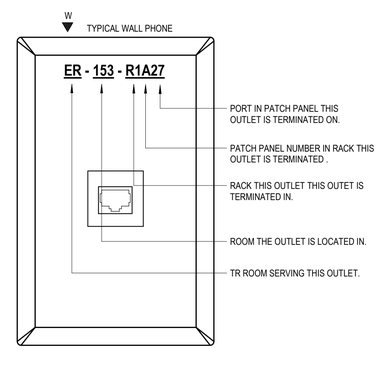

STANDARD LABELING NOTES - TYPICAL ALL CABLES

A.- ALL CABLES SHALL HAVE A LABEL AFFIXED TO THE JACKET 2" TO 6" FROM THE TERMINATION POINT.

## DATA AND VOICE OUTLET LABELING




## WALL PHONE OUTLET LABELING




## STRUCTURED CABLING COLORS

| JACK | CABLE | DESCRIPTION |
|---|---|---|
| BLUE | BLUE | DATA |
| WHITE | WHITE | VoIP VOICE |
| GREEN | GREEN | A/V (CONTROL) |
| ORANGE | ORANGE | WIRELESS ACCESS POINTS |
| YELLOW | YELLOW | CCTV CAMERAS |
| GRAY | GRAY | USB/INTRA-CLASSROOM |
| BLACK | BLACK | ANALOG VOICE |
| | | |

JMSA ARCHITECTURE

Jerome M. Scott
Architects
1020 Goodale Blvd
Columbus, Ohio
43212

Dynamix Engineering
A VEREGY COMPANY
855 Grandview Avenue, 3rd Floor Columbus, OH 43215
Phone: (614) 443-1178 Fax: (614) 443-1594
Email: dynamix@dynamix-ltd.com
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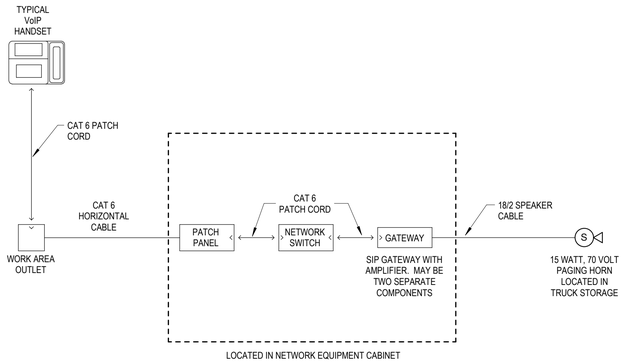
SHEET TITLE

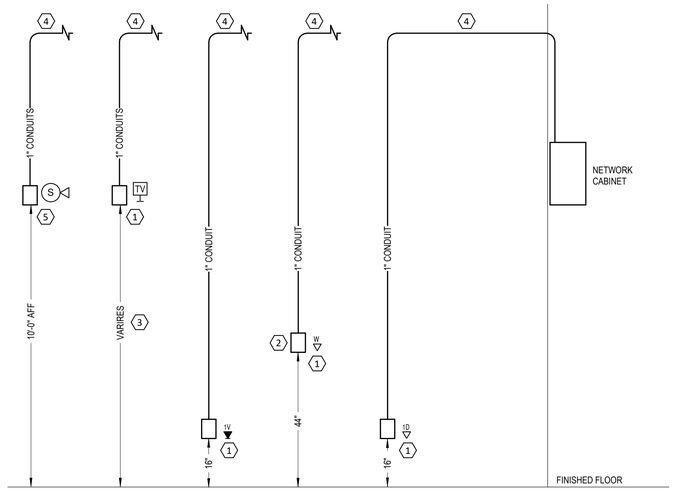
TECHNOLOGY
FACEPLATE DETAILS

T001

## PAGING SPEAKER WIRING DIAGRAM




## TECHNOLOGY OUTLET ROUGH-IN DETAIL




### DETAIL CODED NOTES

1.- SINGLE GANG OUTLET BOX.

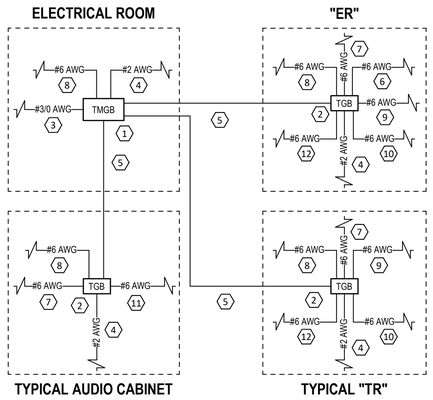
2.- ALL WALL PHONE LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS AND THE CASEWORK SUPPLIER TO ENSURE 6" CLEARANCE AROUND ALL SIDES OF THE OUTLET BOX FOR THE INSTALLATION OF THE PHONE SET.

3.- "TV" OUTLET MAY ALSO BE USED IN CONJUNCTION WITH OTHER TECHNOLOGY OUTLETS. REFER TO THE TECHNOLOGY FLOOR PLANS AND PATHWAY DETAILS FOR ADDITIONAL INFORMATION.

4.- ROUTE CONDUIT TO THE NETWORK CABINET OR SECURITY HEADEND.

5.- 4" SQUARE BOX WITH SQUARE TO ROUND DEVICE RING.

## TECHNOLOGY SYSTEMS GROUNDING SCHEMATIC




### DETAIL CODED NOTES

1.- TELECOMMUNICATIONS MAIN GROUND BAR (TMGB). LOCATION TO BE COORDINATED WITH THE MAIN SWITCH GEAR SUPPLIER.

2.- TELECOMMUNICATIONS GROUND BAR (TGB). LOCATION TO BE COORDINATED WITH THE DIVISION 27 COMMUNICATIONS CABLING CONTRACTOR.

3.- #3/0 CONDUCTOR BONDED TO THE BUILDING'S MAIN ELECTRICAL SERVICE GROUND.

4.- #2 CONDUCTOR EXOTHERMICALLY WELDED TO THE BUILDING STEEL IF PRESENT.

5.- TELECOMMUNICATIONS BONDING BACKBONE BARE CONDUCTOR. SIZE AS DETERMINED BY LINEAR LENGTH.

6.- PROVIDE A #6 CONDUCTOR BONDED TO EACH TECHNOLOGY SERVICE PROVIDER CABLE ENTERING THE BUILDING.

7.- #6 CONDUCTOR BONDED TO THE CORRIDOR CABLE TRAY OUTSIDE OF THE TECHNOLOGY ROOM SHOWN. THIS BONDING CONDUCTOR IS NOT REQUIRED IF THE TELECOMMUNICATIONS BONDING BACKBONE WAS ROUTED TO THE ASSOCIATED TECHNOLOGY ROOM THROUGH THIS CABLE TRAY.

8.- #6 CONDUCTOR BONDED TO ANY METALLIC CONDUIT ENTERING THE ROOM CONTAINING TECHNOLOGY CABLING THAT DOES NOT CONTAIN A BONDING CONDUCTOR.

9.- #6 CONDUCTOR BONDED TO THE CABLE LADDER LOCATED IN THE TECHNOLOGY ROOM. IF THE CABLE LADDER INSTALLED DOES NOT PROVIDE A CONTINUOUS GROUND PATH, EACH CABLE LADDER SEGMENT SHALL BE BONDED TOGETHER WITH A #6 CONDUCTOR.

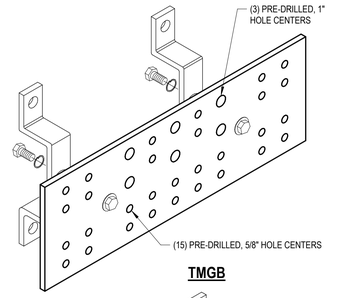
10.- PROVIDE A #6 CONDUCTOR BONDED TO ANY PIECE OF TECHNOLOGY EQUIPMENT INSTALLED WITHIN THE "ER" OR "TR" THAT HAS A GROUNDING LUG OR IS RECOMMENDED BY THE MANUFACTURER TO BE GROUNDED.

11.- PROVIDE A #6 CONDUCTOR BONDED TO THE AUDIO SYSTEMS CABINET.

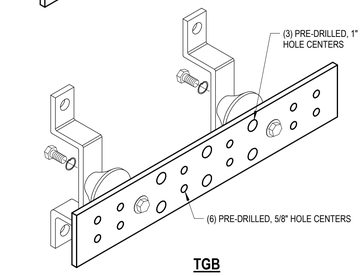
12.- PROVIDE A #6 CONDUCTOR BONDED TO EACH OF THE TECHNOLOGY RACKS AND/OR CABINETS WITHIN THE ROOM.

| TBB/GE LINEAR LENGTH m (ft) | TBB/GE SIZE (AWG) |
|---|---|
| less than 4 (13) | 6 |
| 4-6 (14-20) | 4 |
| 6-8 (21-26) | 3 |
| 8-10 (27-33) | 2 |
| 10-13 (34-41) | 1 |
| 13-16 (42-52) | 1/0 |
| 16-20 (53-66) | 2/0 |
| 20-26 (67-84) | 3/0 |
| 26-32 (85-105) | 4/0 |
| 32-38 (106-125) | 250 kcmil |
| 38-46 (126-150) | 300 kcmil |
| 46-53 (151-175) | 350 kcmil |
| 53-76 (176-250) | 500 kcmil |
| 76-91 (251-300) | 600 kcmil |
| Greater than 91 (301) | 750 kcmil |

## TECHNOLOGY GROUND BAR DETAILS




TMGB




TGB

JMSA ARCHITECTURE

Jerome M. Scott Architects
1020 Goodale Blvd
Columbus, Ohio
43212

Dynamix Engineering
A VEREGY COMPANY
855 Grandview Avenue, 3rd Floor Columbus, OH 43215
Phone: (614) 443-1178 Fax: (614) 443-1594
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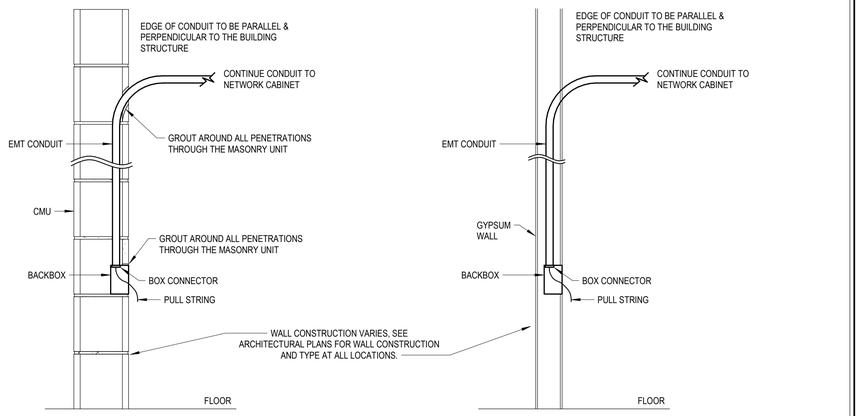
SHEET TITLE

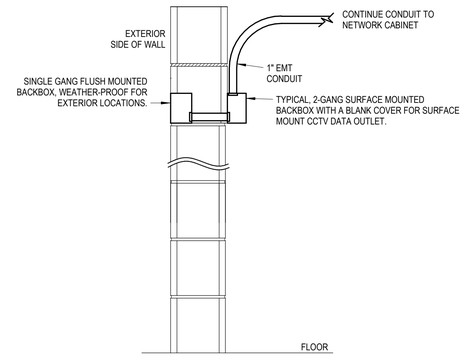
TECHNOLOGY DETAILS

T002

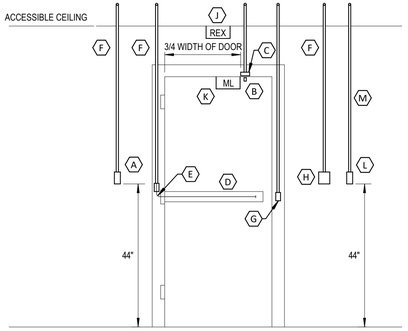
## TYPICAL OUTLET ROUGH-IN DETAIL



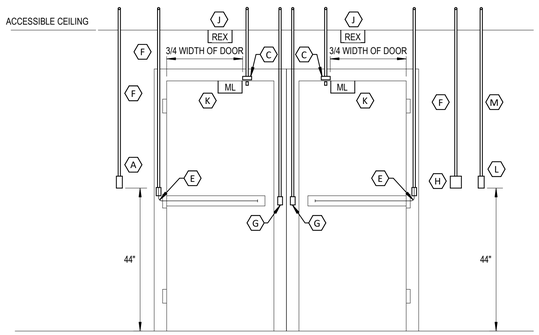

## WALL MOUNT EXTERIOR CCTV CAMERA ROUGH-IN DETAIL




## SECURITY DEVICE ROUGH-IN DETAIL




### SINGLE DOOR SECURITY ROUGH-IN DETAIL




### DOUBLE DOOR SECURITY ROUGH-IN DETAIL

NOTE:
EACH DOOR DOES NOT CONTAIN EACH DEVICE DEPICTED. REFER TO THE DOOR HARDWARE SCHEDULE AND FLOOR PLANS FOR ADDITIONAL INFORMATION.

### DETAIL CODED NOTES

- (A) SINGLE GANG MASONRY BACKBOX FOR PROXIMITY CARD READER.
- (B) NOT USED.
- (C) BACKBOX AND 3/4" CONDUIT ROUTED FROM BACKBOX TO SECURITY PANEL. UTILIZE FOR DOOR CONTACT (AND MAG LOCK IF APPLICABLE). PROVIDE 1/2" HOLE FOR DOOR CONTACT, WITH PULL STRING, FOR FUTURE WIRING BY OTHERS.
- (D) NOT USED.
- (E) BACKBOX MOUNTED IN DOOR FRAME (IF ELECTRONIC CRASH BAR UTILIZED). STUB 3/4" CONDUIT UP TO ABOVE DOOR FOR DOOR LATCH POWER SUPPLY THAT WILL BE FURNISHED BY OTHERS.
- (F) 3/4" CONDUIT WITH PULL STRING FROM BACKBOX TO SECURITY PANEL.
- (G) BACKBOX AND 3/4" CONDUIT TO POWER SUPPLY FOR DOOR STRIKE (IF APPLICABLE).
- (H) 4-SQUARE MASONRY BACKBOX FOR KEYPAD (IF APPLICABLE).
- (I) NOT USED.
- (J) REQUEST-TO-EXIT MOTION DETECTOR (IF APPLICABLE) BY DIV. 28. MOUNT TO CEILING CENTERED ABOVE DOORWAY WHENEVER POSSIBLE. IF CEILING MOUNT IS NOT POSSIBLE, WALL MOUNT WITH A SINGLE GANG BACKBOX AT 108" AFF.
- (K) MAGNETIC DOOR LOCK (IF APPLICABLE) BY DIV. 8. UTILIZE SAME CONDUIT AS DOOR CONTACT.
- (L) SINGLE GANG MASONRY BACKBOX (IF MAG LOCK UTILIZED) BY DIV. 26. REQUEST-TO-EXIT BUTTON (IF MAG LOCK UTILIZED) OR KEY-SWITCH BY DIV. 28.
- (M) 3/4" CONDUIT FROM BACKBOX TO SECURITY PANEL (IF MAG LOCK UTILIZED) BY DIV. 26.

### DOOR OPERATOR SEQUENCE OF OPERATION

1) EXTERIOR DOOR OPERATOR PUSH PLATES: PUSH PLATE LOCATED ON BUILDING EXTERIOR IS TO BE WIRED THROUGH ACCESS CONTROL PANEL AND PROGRAMMED AS FOLLOWS:
A - WHEN ACCESS CONTROL SYSTEM IS PROGRAMMED BY TIME FUNCTION OR MANUAL OVERRIDE TO LOCK THE DOOR, THE EXTERIOR PUSH PLATE SHALL BE DEACTIVATED PREVENTING DOOR OPERATOR MOTOR FROM FUNCTIONING.

B - WHEN ACCESS CONTROL SYSTEM IS PROGRAMMED BY TIME FUNCTION OR MANUAL OVERRIDE TO OPEN THE DOOR, THE EXTERIOR PUSH PLATE SHALL BE ACTIVATED ALLOWING THE DOOR OPERATOR TO FUNCTION WHEN THE PLATE IS PUSHED.

2) INTERIOR DOOR OPERATOR PUSH PLATES: INTERIOR PUSH PLATES ARE TO BE WIRED THROUGH THE ACCESS CONTROL PANEL. THESE INPUTS ARE TO BE PROGRAMMED TO OPERATE SEPARATE OUTPUTS WHICH CONTROL THE LOCK RELEASE AND DOOR OPERATOR AS FOLLOWS:
A - WHEN ACCESS CONTROL SYSTEM IS PROGRAMMED BY TIME FUNCTION OR MANUAL OVERRIDE TO LOCK THE DOOR, PUSHING THE INTERIOR PUSH PLATE SHALL INITIATE AN INPUT TO THE ACCESS CONTROL SYSTEM WHICH SHALL THEN ACTIVATE THE APPROPRIATE OUTPUT CAUSING THE LOCK TO BE RELEASED, AND AFTER A ONE SECOND DELAY (TIME SHALL BE ADJUSTED TO MATCH LOCK RELEASE TIME PLUS 1/2 SECOND) THE OUTPUT THAT INITIATES OPERATION OF THE DOOR OPERATOR SHALL ENERGIZE.

B - WHEN ACCESS CONTROL SYSTEM IS PROGRAMMED BY TIME FUNCTION OR MANUAL OVERRIDE TO UNLOCK THE DOOR, PUSHIING THE INTERIOR PUSH PLATE SHALL INITIATE AN INPUT TO THE ACCESS CONTROL SYSTEM WHICH SHALL THEN ACTIVATE THE APPROPRIATE OUTPUT CAUSING THE DOOR OPERATOR TO ENERGIZE.


JMSA ARCHITECTURE

Jerome M. Scott Architects
1020 Goodale Blvd
Columbus, Ohio
43212

Dynamix Engineering
A VEREGY COMPANY
855 Grandview Avenue, 3rd Floor Columbus, OH 43215
Phone: (614) 443-1178 Fax: (614) 443-1594
Email: dynamix@dynamix-ltd.com
DEL #21-179


DOUGLAS SMITH
PROFESSIONAL ENGINEER

# DOT-200023 ODOT - EATON OUTPOST

CONSTRUCTION DOCUMENTS

5656 US-127 Eaton, Ohio 45320

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 3 | 03/11/22 | Revision 3 |
| 2 | 03/11/22 | Revision 2 / Conformance Set |
| 1 | 12/17/21 | Revision 1 Permit / Bid Set |
| | 12/10/21 | Bid Set |
| | 11/12/21 | Permit Set |

| | |
|---|---|
| PROJECT NO: | **DOT-200023** |
| DATE: | **12/17/2021** |
| DRAWN BY: | **DEL** |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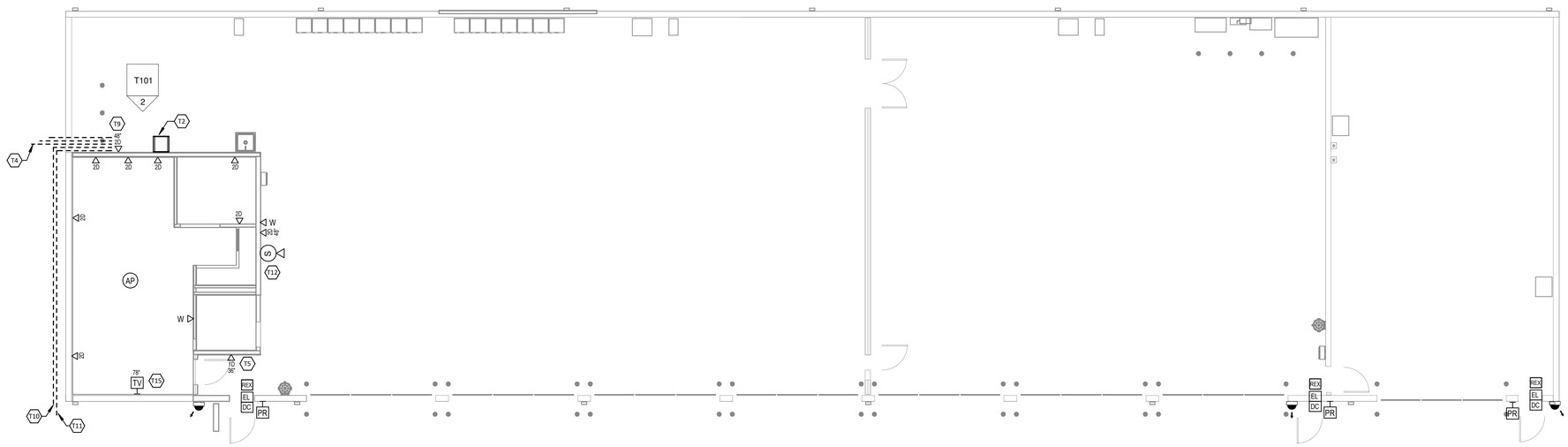
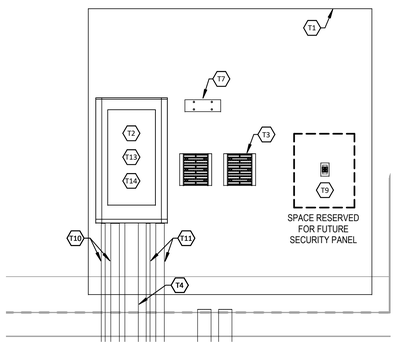
SHEET TITLE

## TECHNOLOGY DETAILS

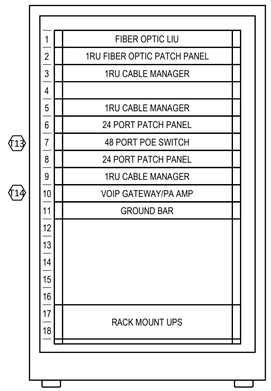
# T003




1 T101 FIRST FLOOR OVERALL TECHNOLOGY PLAN
1/8" = 1'-0"
0 8' 16' 32'




2 T101 TELECOMMUNICATIONS BACKBOARD ELEVATION
1/2" = 1'-0"




3 T101 NETWORK RACK ELEVATION
NOT TO SCALE

**PLAN NOTES**

| # | NOTE |
|---|---|
| T1 | PROVIDE 3/4"x4'X8' PLYWOOD BACKBOARD. PAINT ALL 6 SIDES WITH FIRE RETARDANT PAINT. |
| T2 | PROVIDE WALL MOUNTED NETWORK CABINET. |
| T3 | TELEPHONE DEMARC. PROVIDE 110 TERMINATION BLOCKS. |
| T4 | PROVIDE 4 UNDERGROUND CONDUITS FROM POLE OR UNDERGROUND CABLE ONE FOR TELEPHONE SERVICE AND ONE SPARE. ALL CONDUITS BELOW PAVING OR SIDEWALKS SHALL BE CONCRETE ENCASED. |
| T5 | DATA OUTLET FOR TIMECLOCK. |
| T7 | TELECOMMUNICATIONS MAIN GROUND BAR. |
| T9 | PROVIDE (2) DATA OUTLETS AT SECURITY PANEL LOCATION FOR NETWORK AND VOIP CONNECTION. |
| T10 | PROVIDE 2-1/2" CONDUIT WITH PULL STRING TO GATE CONTROLLER AND (1) 1-1/2" WITH PULL STRING FOR FUTURE CARD READER AND INTERCOM. COORDINATE LOCATIONS IN FIELD. |
| T11 | PROVIDE 2-1/2" CONDUIT WITH PULL STRING TO FUEL ISLAND FOR FUTURE LOW VOLTAGE CABLING AND (1) 1" CONDUIT WITH PULL STRING AND (1) WET RATED CAT 6 CABLE FOR FUEL MANAGER SYSTEM. TERMINATE AT BOTH ENDS. COORDINATE STUB UP LOCATIONS IN FIELD. |
| T12 | PROVIDE AND INSTALL REENTRANT HORN LOUDSPEAKER. |
| T13 | POE SWITCH FURNISHED AND INSTALLED BY OWNER. |
| T14 | VOIP PAGING ADAPTER AND AMPLIFIER. FURNISHED AND INSTALLED BY LOW VOLTAGE CONTRACTOR. |
| T15 | TV OUTLET WITH (2) CAT 6 CABLES TO NETWORK CABINET. |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FIRST FLOOR TECHNOLOGY PLAN

T101