

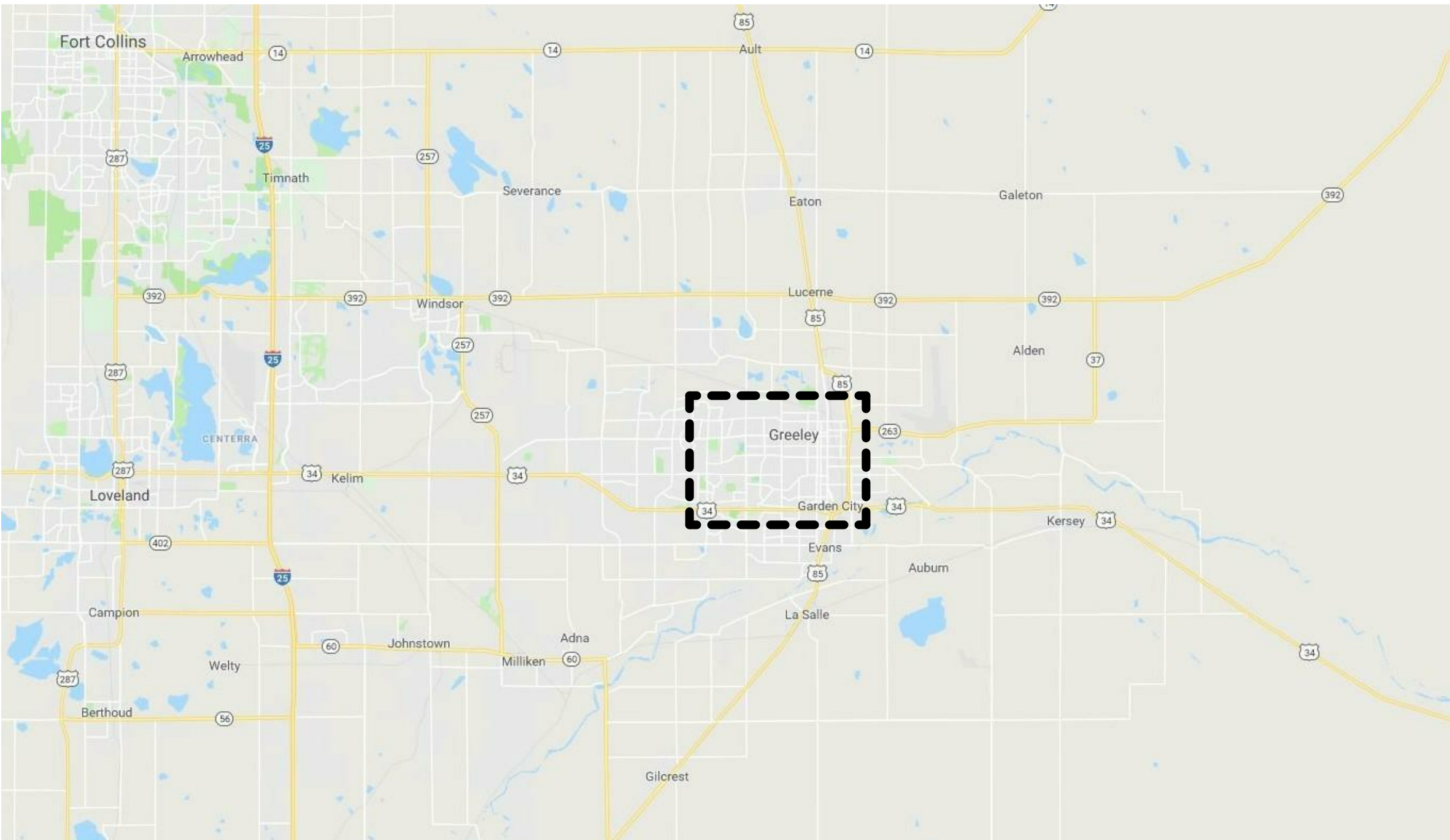
City of Greeley

GREELEY FIRE STATION #6

10603 20TH ST, GREELEY COLORADO 80634

75% DESIGN

VICINITY MAP



LOCATION MAP



PROJECT DIRECTORY

OWNER

City of Greeley
10th Street
Greeley, CO 80631
970.350.9777

ARCHITECT / CIVIL / STRUCTURAL

Short Elliott Hendrickson, Inc.
2000 South Colorado
Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

LANDSCAPE

DHM Design Corporation
900 S Broadway #300
Denver, CO 80209
303.892.5566

MECHANICAL ENGINEER

The Ballard Group
2525 S Wadsworth Blvd #200
Lakewood, CO 80227
303.988.4514

ELECTRICAL ENGINEER

CMO Consulting Engineering
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

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Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/Civil Engineer/Structural

Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect

DHM Design Corporation
900 South Broadway Denver,
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The Ballard Group, Inc
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303.988.4514

Electrical Engineer

CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
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GREELEY FIRE STATION #6



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Project Status
30% DESIGN
75% DESIGN

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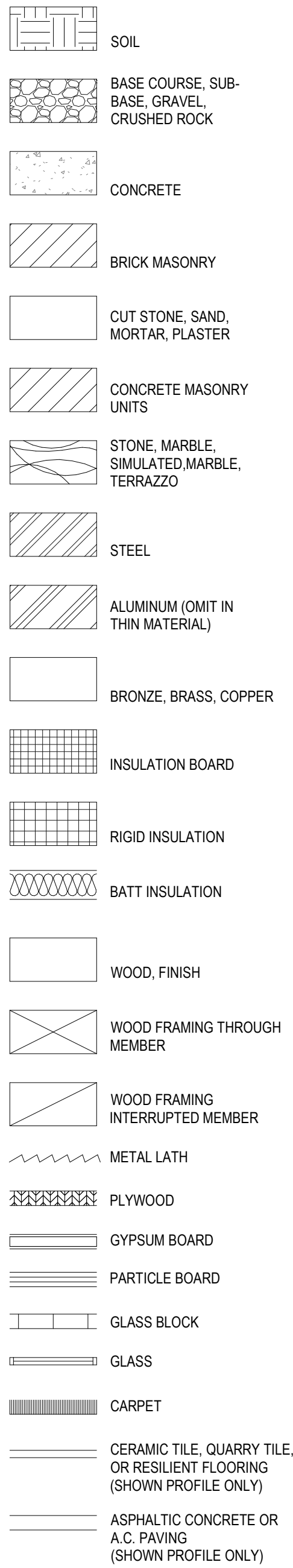
COVER SHEET

G
000

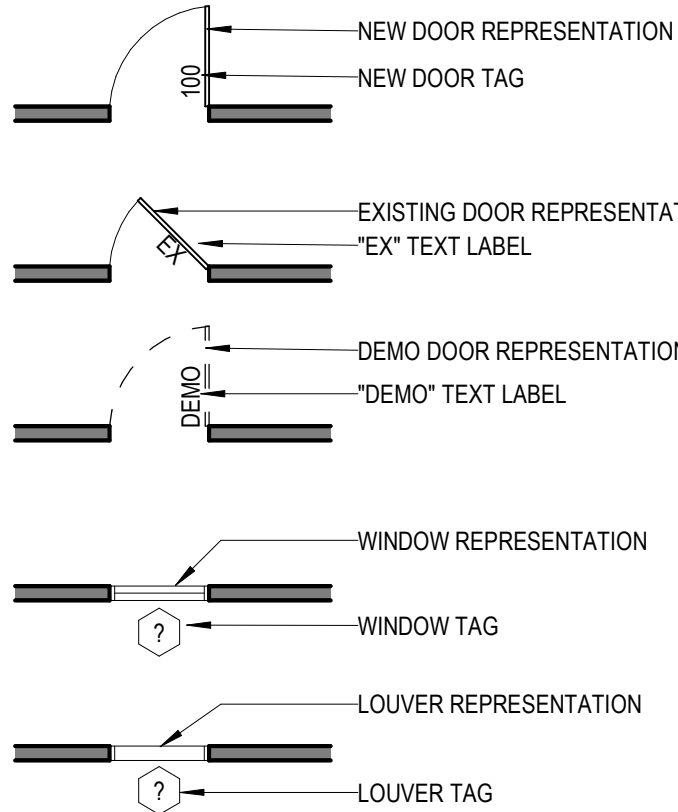
ABBREVIATIONS

& L @ ⊕ (E) # +/- ⊔ SQ	AND ANGLE AT CENTERLINE DIAMETER/ROUND EXISTING POUND/NUMBER PLUS OR MINUS PROPERTY LINE SQUARE	E EA E.A.R. E.C.	EAST EACH EXHAUST AIR REGISTER ELASTOMERIC COATING/ EXISTING EXHAUST FAN EXTERIOR FINISH SYSTEM EXTERIOR GYPSUM CEILING BOARD EXTERIOR GYPSUM SHEATHING BOARD EXTERIOR INSULATION & FINISH SYSTEM	JAL. JAN. J.B. JST JT.	JALOUSIE JANITOR JUNCTION BOX JOIST JOINT	R.F. RFG. RGR. R.H. RLG. RM. R.O. R.W.R. RWD. R.W.L.	RESILIENT FLOORING ROOFING REGISTER ROUND HEAD RAILING ROOM ROUGH OPENING RECESSED WASTE RECEPTACLE REDWOOD RAIN WATER LEADER
A/C A.B. ABV. A.C. ACC. ACOUS. A.D.	AIR CONDITIONING ANCHOR BOLT ABOVE ASPHALTIC CONCRETE ACCESSIBLE ACOUSTICAL AREA DRAIN ACCESS DOOR ADDENDUM ADJUSTABLE ADJACENT ACCESS FLOOR A.F.F. AGGR A.H.U. ALUM.	E.I.F.S. E.J. EL ELAS ELEC. ELEV. EMER. ENCL. E.O.S. E.P. EQ. EQPT. E.W. E.W.C.	EXPANSION JOINT ELEVATION ELASTOMERIC ELECTRICAL ELEVATOR EMERGENCY ENCLOSURE EDGE OF SLAB ELECTRIC PANEL EQUAL EQUIPMENT EACH WAY ELECTRIC WATER COOLER	K.D. KG. KIT. KM. K.O. KW.	KNOCK DOWN KILOGRAM KITCHEN KILOMETER KNOCK-OUT KILOWATT	S. S.A. S.C. SCALE SCHEDULE SCUPPER S.C.R. S.D. SECT. S.F. SH. SHR. SHT. SHTG. SIM. SLOPE SLIDING SLANT S.M. S.M.H. S.N.D. S.N.R.	SOUTH SINGLE ACTING SOLID CORE SCALE SCUDDER SHOWER CURTAIN ROD SMOKE DETECTOR SECTION SQUARE FEET SHELF SHOWER SHEET SHEATHING SIMILAR SLOPE SLIDING SEALANT SQUARE METER SEWER MANHOLE SANITARY NAPKIN DISPENSER SANITARY NAPKIN RECEPTACLE SOLID PLASTIC SPECIFICATIONS SPEAKER SPRINKLER SQUARE S.S.K. S.S.T.L. ST. STA. STANDARD STEEL STL. STOR. STRUCT. SURROUND SUSP. SERVICE SW. SYM. SYS.
BD. BITUM. BLDG. BLK. BLKG. BM. B.O.H. BOT. BR. BRG. BRKT. B.S. BSMT. BTWN. B.U.R.	BOARD BITUMINOUS BUILDING BLOCK BLOCKING BEAM BACK OF HOUSE BOTTOM BEDROOM BEARING BRACKET BOTH SIDES BASEMENT BETWEEN BUILT-UP ROOFING	F.F.&E. F.A. FAB. F.A.M. F.B. F.C.O. F.C.U. F.D. F.E. F.E.C.	FURNITURE, FIXTURE & EQUIPMENT FINISH FLOOR SEPARATION FLAT HEAD FIRE HOSE CABINET FIN. FIXT. FLASH. FOLDING FLOORING FLR. FLUOR. F.N.D.	M. M.L. MAX. M.B. M.C. MECH. MEMB. MET. MFR. MH. MIN. MIR. MISC. MLDG. MM. M.O. MOD. M.R. MTD. MTG.	MALE MATERIAL MAXIMUM MACHINE BOLT MEDICINE CABINET MECHANICAL MEMBRANE NET MANUFACTURER MANHOLE MINIMUM MIRROR MISCELLANEOUS MOLDING MILLIMETER MASONRY OPENING MODULAR MOISTURE RESISTANT MOUNTED MOUNTING	N. N.I.C. N.L. NO. NOM. N.S. N.T.S.	NORTH NOT IN CONTRACT NIGHT LIGHT NUMBER NOMINAL NO SCALE NOT TO SCALE
CAB. C.B. C.B.B. C.C.T.V.	CHORD/COMPACT CABINET CATCH BASIN CEMENTITIOUS BACKER BOARD CLOSED CIRCUIT TELEVISION	F.F.N.V. FND. F.O. F.O.C. F.O.F. F.O.M. F.O.S. F.W. FR. F.R.G. F.R.P.	FEMALE FIRE ALARM FABRICATE FLUID APPLIED MEMBRANE FLAT BAR FLOOR CLEAN OUT FAN COIL UNIT FLOOR DRAIN FIRE DAMPER FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET	O. O.C. O.A. O.A.G. OBS. O.D. O.F./C.I. OFD. OFF. O.F./O.I. OPNG. OPP. OPQ. OPR. OVHD.	OVER ON CENTER OVERALL OUTSIDE AIR GRILLE OBSOLETE OUTSIDE DIAMETER (DIMENSION) OWNER FURNISHED/ CONTRACTOR INSTALLED TEMP. OFFICE OWNER FURNISHED/ OWNER INSTALLED OPENING OPPOSITE OPaque OPERABLE OVERHEAD	PASS. PASSAGE POST CONTRACT P.C. P.C.A. P.C. P.D. PERIM. PERP. PH. P.I.P.	PASSAGE POST CONTRACT POST CONTRACT ARCHITECTURAL PIECE PLANTER DRAIN PERIMETER PERPENDICULAR PENTHOUSE POURED-IN-PLACE
COL. COMM. COMP. CONC. COND. CONN. CONSTR. CONT. CONTR. COORD. CORR. C.O.T.G.	COLUMN COMMUNICATION COMPARTMENT CONCRETE CONDITION CONNECTION CONSTRUCTION CONTINUOUS CONTRACTOR COORDINATE CORRIDOR CLEAN OUT TO GRADE	G. GA. GAL. GALV. G.B. GEN. G.F.I. G.F.R.C.	GAS (PIPE) GAGE GALLON GALVANIZED GRAB BAR GENERATOR GROUND FAULT INTERCEPTOR REINFORCED CONCRETE	PL. PLAM. PLAS. PLBG. PLYWD. PNL. PR. P.R.B.P.	PLATE PLASTIC LAMINATE PLASTER PLUMBING PLYWOOD PANEL PAIR PRESSURE REDUCING BACK FLOW PREVENTER PRECAST	P.L. P.LAM. P.LAS. P.LBG. P.LYWD. P.NL. P.R. P.R.B.P.	PLATE PLASTIC LAMINATE PLASTER PLUMBING PLYWOOD PANEL PAIR PRESSURE REDUCING BACK FLOW PREVENTER PRECAST
C.T. CTR. CTSK. CUST. C.W. C.W.R.	CERAMIC TILE CENTER COUNTERSUNK CUSTOM COLD WATER COLD WATER RETURN	GL. GLU-LAM GND. G.P.H. G.S.B. GYP.	GLASS GLUED LAMINATED WOOD GROUND GYPSUM SHEATHING BOARD GYPSUM	PRCST. PREFAB. PREP. PROP. P.R.V. P.S.F.	PRECAST PREFABRICATED PREPARATION PROPERTY PRESSURE RELIEF VALVE POUNDS PER SQUARE FOOT	P.T. P.T.D. P.T.D.R. PTN. P.T.R. PVC. Q. Q.T.	PAINT/POINT PAPER TOWEL DISPENSER & RECEPTACLE PARTITION PAPER TOWEL RECEPTACLE POLY VINYL CHLORIDE QUARRY TILE
d D. D.A. DBL. D.D. DEPT. DET. DIA. DIAG. DIM. DISP. DN. D.O. D.PTN. DR. DS. D.SP. DW. D.WG. DWR.	PENNY (NAILS) DEEPIPTHDRYER DOUBLE ACTING DOUBLE DECK DRAIN DEPARTMENT DETAIL DIAMETER DIAGONAL HEATER DIMENSION DISPENSER DOWN DOOR OPENING DEMOUNTABLE PARTITION DOOR DOWNSPOUT DRY STANDPIPE DISHWASHER DRAWING DRAWER	H. H.B. H.C. HCP. HD. HDWD. HDWE. H.M. HORIZ. HR. H.S. HT. HTR. H.V.A.C. H.W. H.W.R. I.D.	HEIGHT/HIGH HOSE BIB HOLLOW CORE HANDICAPPED HEAD HARDWOOD HARDWARE HOLLOW METAL HORIZONTAL HOUR HAND SINK HEIGHT RESILIENT BASE ROBE HOOK HEATING, VENTILATION AND AIR CONDITIONING HOT WATER HOT WATER RETURN INSIDE DIAMETER (DIMENSION)	R. RAD. R.B. RB.HK. R.C.P. R.D. REBAR REF. REFL. REFR. REINFORCED REQUIRED RESILIENT RESTROOM REVISED/REVISION INVERT	RISER RADIUS RESILIENT BASE ROBE HOOK REFLECTED CEILING PLAN ROOF DRAIN REINFORCING BAR REFERENCE/REFER REFLECTOR REFRIGERATOR REINFORCED/REINFORCING REQUIRED RESILIENT RESTROOM REVISED/REVISION INVERT	R. RAD. R.B. RB.HK. R.C.P. R.D. REBAR REF. REFL. REFR. REINFORCED/REINFORCING REQUIRED RESILIENT RESTROOM REVISED/REVISION INVERT	QUARRY TILE RISER RADIUS RESILIENT BASE ROBE HOOK REFLECTED CEILING PLAN ROOF DRAIN REINFORCING BAR REFERENCE/REFER REFLECTOR REFRIGERATOR REINFORCED/REINFORCING REQUIRED RESILIENT RESTROOM REVISED/REVISION INVERT
INSUL. INT. INV.	INSULATION INTERIOR INVERT	IN. INCL. INCLDING INSULATION INTERIOR INVERT	INCH INCLUDED/INCLUSIVE/ INCLUDING INSULATION INTERIOR INVERT	IN. INCL. INCLDING INSULATION INTERIOR INVERT	INCH INCLUDED/INCLUSIVE/ INCLUDING INSULATION INTERIOR INVERT	IN. INCL. INCLDING INSULATION INTERIOR INVERT	INCH INCLUDED/INCLUSIVE/ INCLUDING INSULATION INTERIOR INVERT

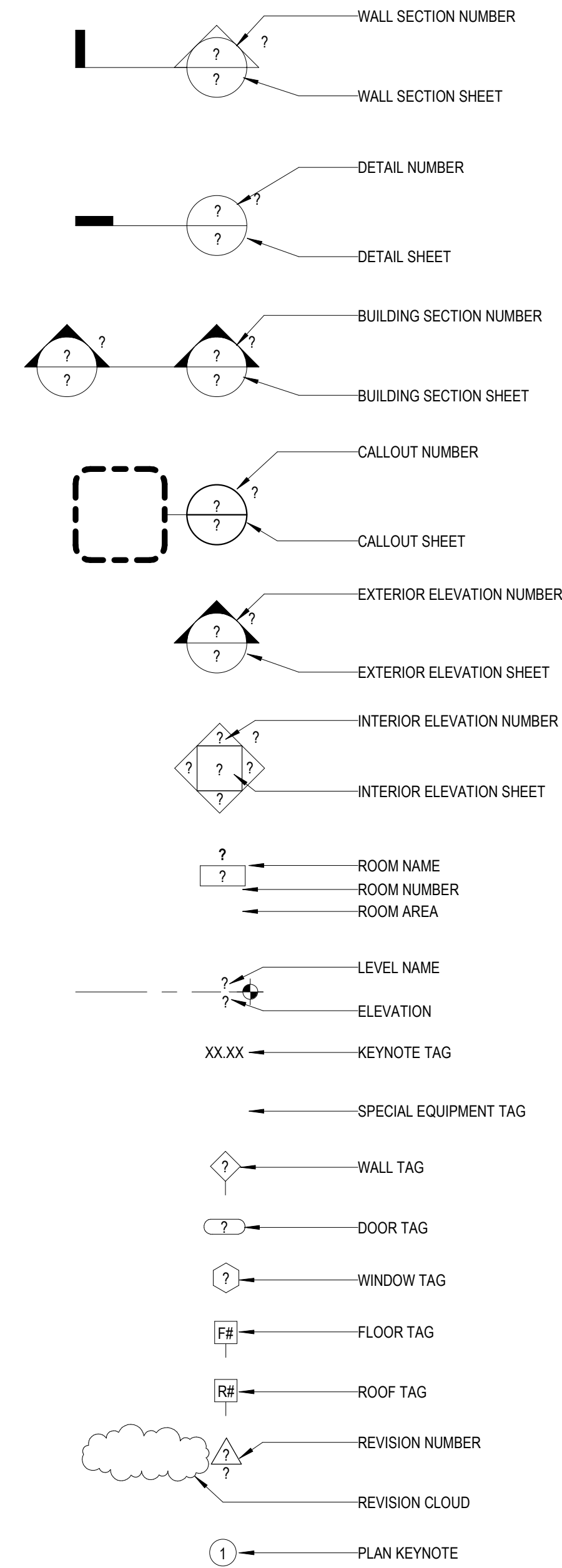
MATERIAL SYMBOLS



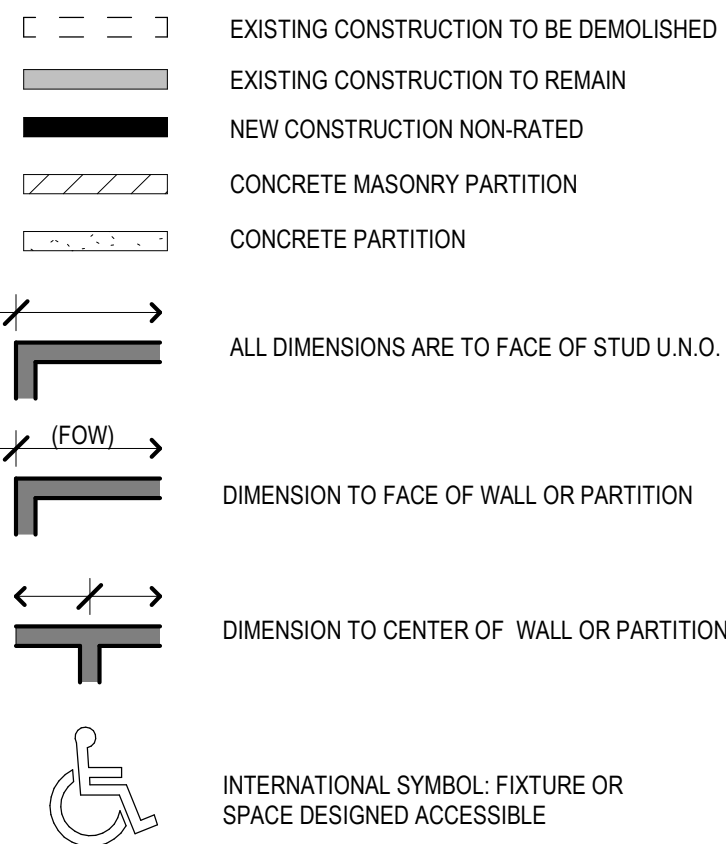
OPENING SYMBOLS



CALLOUT SYMBOLS



GENERAL SYMBOLS



GENERAL NOTES

- THESE DRAWINGS ARE LEGAL INSTRUMENTS OF SERVICE FOR THE USE OF THE OWNER AND ITS AUTHORIZED AGENTS AND VENDORS ON THE DESIGNATED PROJECT ONLY.
- GC RESPONSIBLE FOR KNOWLEDGE OF RELATIVE INFORMATION CONTAINED IN THESE DOCUMENTS AND THE CONDITIONS UNDER WHICH THE WORK WILL BE PERFORMED.
- CAREFULLY AND THOROUGHLY EXAMINE THE PROJECT SITE, FIELD VERIFY ALL CONDITIONS, GRADES, ELEVATIONS AND DIMENSIONS OF THE VARIOUS FEATURES OF THE SITE AND COMPARE DRAWINGS WITH THE EXISTING CONDITIONS. ANY DISCREPANCIES AND/OR CONDITIONS NEEDING CLARIFICATION SHALL BE REPORTED IN WRITING TO THE ARCHITECT BEFORE STARTING WORK.
- ALL CONSTRUCTION, FABRICATION AND INSTALLATION SHALL CONFORM TO THE LATEST LOCALLY ADOPTED EDITIONS OF THE IBC, IPC, IMC, NEC, NFPA, OSHA AND ANY FEDERAL, STATE AND LOCAL CODES, REGULATIONS, STANDARDS AND ORDINANCES OF GOVERNING AGENCIES HAVING JURISDICTION. SUCH APPLICABLE CODES, ETC. ARE THOSE WHICH ARE IN EFFECT AT THE TIME THE PROJECT PERMIT APPLICATION IS RECORDED.
- ALL TRADES ARE CONSIDERED SPECIALISTS IN THEIR RESPECTIVE FIELD/TRADE AND SHALL, BEFORE SUBMISSION OF BID OR PERFORMANCE OF WORK, NOTIFY THE CONTRACTOR IN WRITING OF ANY WORK ON THE DRAWINGS OR IN THE SPECIFICATIONS WHICH CANNOT BE FULLY WARRANTED OR CONSTRUCTED AS DETAILED OR SPECIFIED. THE CONTRACTOR WILL NOTIFY THE ARCHITECT OF SUCH CONDITIONS IN WRITING.
- DUE TO REPRODUCTION PROCESSES, DRAWINGS MAY NOT BE ACCURATE TO SCALE. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN AND IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS, ELEVATIONS OR DETAILS.
- THE STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. DISCREPANCIES BETWEEN THE VARIOUS DRAWINGS SHALL BE REPORTED BY THE CONTRACTOR TO THE ARCHITECT IN WRITING.
- BEFORE STARTING WORK, COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR INSTALLATION OF EQUIPMENT INDICATED N.I.C. ON DRAWINGS. VERIFY EQUIPMENT LOCATIONS WITH THE OWNER'S REPRESENTATIVE. VERIFY DIMENSIONS, UTILITIES, ETC. WITH EQUIPMENT MANUFACTURERS' ROUGH - IN DATA PRIOR TO FORMING THE SLAB.
- PRODUCTS AND MANUFACTURED ITEMS SHALL BE PROVIDED AS SPECIFIED. SUBSTITUTIONS WILL BE PERMITTED IN ACCORDANCE WITH THE PROCEDURES OUTLINED IN THE SPECIFICATIONS.
- WHERE DETAILS ARE NOT SHOWN OR NOTED, GC IS TO PROVIDE A WRITTEN REQUEST FOR INFORMATION TO CLARIFY SPECIFIC DETAIL CONDITIONS.
- ALL INDICATED EXISTING UTILITIES OR STRUCTURES ARE BASED ON INFORMATION OF RECORD. TAKE PRECAUTIONS TO PROTECT THE UTILITY LINES NOT OF RECORD OR NOT SHOWN. BE RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH MAY OCCUR DUE TO FAILURE TO LOCATE AND PROTECT ALL CONCEALED UTILITIES.
- COMPLY WITH ALL JURISDICTIONAL AGENCY REQUIREMENTS AND REGULATIONS. PERFORM ALL WORK ON THIS PROJECT IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS 29 CFR 1910 AND 1926 OF THE U.S. DEPARTMENT OF LABOR AND THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES.
- FINAL CONNECTIONS SHALL BE AS PER MANUFACTURER'S WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. BE RESPONSIBLE TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
- PROVIDE PERMITS AND INSPECTIONS REQUIRED BY JURISDICTIONAL AGENCIES.
- PROVIDE SET OF RECORD DRAWINGS TO ARCHITECT. DRAWINGS SHALL INCLUDE ALL ADDENDUM ITEMS, CHANGE ORDERS, ALTERATIONS, REROUTINGS, ETC.
- SERVICE SHALL BE MAINTAINED TO EXISTING AREAS DURING CONSTRUCTION. PROVIDE PORTABLE GENERATORS, CABLES, OUTLETS ETC., TO MAINTAIN CONTINUITY OF SERVICE. PLACEMENT OF SUCH PORTABLE EQUIPMENT SHALL BE SUBJECT TO OWNER APPROVAL. COORDINATE CONSTRUCTION PHASING WITH THE OWNER. TEMPORARY PARTITIONS, LOCATIONS & CONSTRUCTION DETAILS IN PUBLIC SPACES SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL PRIOR TO START OF CONSTRUCTION.
- PATCH AND MATCH ALL NEW WORK W/ EXISTING WHERE NEW TO EXISTING INTERFACE OCCURS.
- RESTORE ALL REMOVED OR DAMAGED STRUCTURAL STEEL CEMENTITIOUS FIRE PROOFING TO REQUIRED FIRE RESISTIVE STANDARD.
- SUBMIT SAMPLES OF ALL EXPOSED PRODUCTS, MATERIALS, PAINTING SYSTEMS, ETC. FOR ARCHITECT'S REVIEW. COLOR SELECTION OR COLOR VERIFICATION PRIOR TO ORDERING ITEMS. SEAL ALL DUCTS, LOUVERS, VENTS, OPENINGS AND CEILING SPACES BETWEEN CONSTRUCTION AREA AND REMAINDER OF SHELLED SPACES TO PREVENT DUST, DIRT, CONTAMINATION OR DEBRIS FROM ENTERING.
- DO NOT ALLOW DIRT, DEBRIS OR DISCARDED MATERIALS TO ACCUMULATE ON SITE. REMOVE PROMPTLY EACH DAY.
- VERIFY SERVICES TO BE ABANDONED, REMOVED OR CUT HAVE BEEN PROPERLY AND SAFELY SHUT OFF, CAPPED OR SEALED.
- KEEP NOISE AND VIBRATION PRODUCING ACTIVITIES AT A MINIMUM WHEN WORKING WITHIN OR ON THE EXISTING BUILDING. APPROPRIATE TIMES OF SUCH ACTIVITIES SHALL BE COORDINATED WITH OWNER IN WRITING AT BEGINNING OF PROJECT.
- IN THE EVENT THAT NOISE AND VIBRATION PRODUCING ACTIVITIES WILL OCCUR DURING TIMES OTHER THAN THOSE NOTED ABOVE, OBTAIN PERMISSION FROM THE OWNER IN WRITING A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF ACTIVITIES.
- KEEP UTILITY AND SERVICE OUTAGES TO A MINIMUM. MAKE WRITTEN OUTAGE REQUESTS AT LEAST FIVE DAYS BEFORE DATE OF PROPOSED OUTAGE. STATE IN THE REQUEST HOURS OF OUTAGE, CONFIRM DATE 48 HOURS IN ADVANCE OF STARTING DATE.
- ASSIGN THE WORK OF MOVING, REMOVAL, CUTTING, PATCHING AND REPAIR TO TRADES UNDER CONTRACTOR SUPERVISION TO CAUSE THE LEAST DAMAGE TO EACH TYPE OF WORK ENCOUNTERED.
- PATCHING OF FINISH MATERIALS TO MECHANICS SKILLED IN THE WORK OF THE FINISH TRADE INVOLVED.
- PROTECT REMAINING FINISHES, EQUIPMENT AND ADJACENT WORK FROM DAMAGE CAUSED BY CUTTING, MOVING AND REMOVAL AND PATCHING OPERATIONS. PROTECT SURFACES WHICH WILL REMAIN A PART OF THE FINISHED WORK.
- PROTECT EXISTING AND NEW WORK FROM WEATHER DURING CUTTING, MOVING, REMOVAL CONSTR. PROVIDE WEATHER PROTECTION AND OTHER FACILITIES AND PROTECTION AS NEEDED TO PREVENT DAMAGE TO NEW WORK AND TO REMAINING OLD WORK.
- PROVIDE ADEQUATE SUPPORT OR SUBSTRATE FOR PATCHING FINISHES.
- USE OF HAZARDOUS MATERIALS SHALL CONFORM WITH 29 CFR 1910.120 AND 1926.65 OF THE OSHA CODE.
- REMOVAL OF HAZARDOUS WASTE SHALL COMPLY WITH CURRENT FEDERAL, STATE AND LOCAL REGULATIONS, STANDARDS, LAWS AND REQUIREMENTS.
- THE WET SIDE FIRE PROTECTION CONTRACTOR SHALL PROVIDE TO THE ARCHITECT, THROUGH THE NORMAL SUBMITTAL PROCESS, SPRINKLER PLANS SHOWING PIPING PLANS, POINTS OF CONNECTIONS, HEAD LOCATIONS, VALVE LOCATIONS, CALCULATIONS AND HEAD TYPES AND FINISHES PRIOR TO SUBMISSION TO THE FIRE DEPARTMENT FOR THE ARCHITECT'S REVIEW AND APPROVAL. DO NOT SUBMIT DRAWINGS TO ANY JURISDICTION PRIOR TO GAINING THIS REVIEW AND APPROVAL.
- THE ELECTRONIC FIRE PROTECTION CONTRACTOR SHALL PROVIDE TO THE ARCHITECT, THROUGH THE NORMAL SUBMITTAL PROCESS, PLANS SHOWING THE SIZE, LOCATION, MOUNTING HEIGHTS, AND FINISH OF ALL STROBES, SPEAKERS, AND SPEAKER STROBES AS WELL AS SHOWING ALL CONDUIT RUNS, CONDUIT SIZES, AND POINTS OF CONNECTION FOR ARCHITECT'S REVIEW AND APPROVAL. DO NOT SUBMIT DRAWINGS TO ANY JURISDICTION PRIOR TO GAINING THIS REVIEW AND APPROVAL.



NOT FOR CONSTRUCTION

Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/Civil Engineer/Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.8600

Landscape Architect
DHM Design Corporation
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Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc.
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CMO Consulting Eng
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City of Greeley
Greeley Fire Station #6
10602 20TH ST, GREELEY COLORADO 80634

City of Greeley
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GENERAL INFORMATION AND ABBREVIATIONS

G
001

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GENERAL NOTES

1.

ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY, OR EASEMENT SHALL CONFORM TO THE CITY OF GREELEY CONSTRUCTION SPECIFICATIONS AND DESIGN STANDARDS.
2.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF ANY WORK ON THE PROJECT. A PERMIT FROM PUBLIC WORKS DEPARTMENT (970-350-9881) IS REQUIRED FOR ALL CONSTRUCTION IN PUBLIC RIGHT-OF-WAY OR EASEMENTS. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD WITH CITY REPRESENTATIVES BEFORE A PERMIT WILL BE ISSUED. CALL UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 FOR UTILITY LOCATES AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
3.

THE CONTRACTOR SHALL NOTIFY CONSTRUCTION SERVICES (970-350-9539) AT LEAST 24 HOUR PRIOR TO REQUIRED INSPECTION.
4.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER/ DEVELOPER, AND THE CITY, OF ANY PROBLEMS IN CONFORMING TO THE ACCEPTED PLANS FOR ANY ELEMENT OF THE PROPOSED IMPROVEMENTS PRIOR TO ITS CONSTRUCTION.
5.

IT IS THE RESPONSIBILITY OF THE DEVELOPER DURING CONSTRUCTION ACTIVITIES TO RESOLVE CONSTRUCTION PROBLEMS DUE TO CHANGED CONDITIONS, OR DESIGN ERRORS ENCOUNTERED BY THE CONTRACTOR DURING THE PROGRESS OF ANY PORTION OF THE PROJECT. IF, IN THE OPINION OF THE CITY, THE MODIFICATIONS PROPOSED BY THE DEVELOPER, TO THE ACCEPTED PLANS, INVOLVE SIGNIFICANT CHANGES TO THE CHARACTER OF THE WORK, OR TO THE FUTURE CONTIGUOUS PUBLIC OR PRIVATE IMPROVEMENTS, THE DEVELOPER SHALL BE RESPONSIBLE FOR RE-SUBMITTING THE REVISED PLANS TO THE CITY OF GREELEY FOR ACCEPTANCE PRIOR TO ANY FURTHER CONSTRUCTION RELATED TO THAT PORTION OF THE PROJECT. ANY IMPROVEMENTS NOT CONSTRUCTED IN ACCORDANCE WITH THE ACCEPTED PLANS, OR THE ACCEPTED REVISED PLANS, SHALL BE REMOVED AND RECONSTRUCTED ACCORDING TO THE APPROVED PLAN.
6.

THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE CITY TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
7.

THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND THE GREELEY SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
8.

THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL SURVEY MONUMENTS. ANY MONUMENT THAT MUST BE DESTROYED FOR CONSTRUCTION SHALL BE REPLACED. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A PROFESSIONAL LICENSED SURVEYOR (PLS) PRIOR TO DISTURBING ANY MONUMENTS.
9.

PRIOR TO FINAL PLACEMENT OF SURFACE PAVEMENT, ALL UNDERGROUND UTILITY MAINS SHALL BE INSTALLED AND SERVICE CONNECTIONS STUBBED OUT BEYOND CURB LINE, WHEN ALLOWED BY THE UTILITY. SERVICE FROM PUBLIC UTILITIES AND FROM SANITARY SEWERS SHALL BE MADE AVAILABLE FOR EACH LOT IN SUCH A MANNER THAT WILL NOT BE NECESSARY TO DISTURB THE STREET PAVEMENT, CURB, GUTTER, AND SIDEWALK WHEN CONNECTIONS ARE MADE.
10.

A GEOTECHNICAL REPORT TITLED *GEOTECHNICAL SUBSURFACE EXPLORATION PROGRAM, GREELEY FIRE STATION #2* HAS BEEN PREPARED BY GROUND ENGINEERING FOR GRADING AND PAVING. REFER TO GEOTECHNICAL REPORT FOR ANY REQUIREMENTS EXCEEDING CITY STANDARDS.
11.

THE CONTRACTOR SHALL RESTRICT WORKING HOURS TO BETWEEN 7:00 AM AND 6:00 PM ON NORMAL CITY OF GREELEY BUSINESS DAYS UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE CITY.

STORMWATER GENERAL NOTES

1.

BEDDING FOR ALL STORM DRAIN SHALL BE PER THE STANDARD STORM DRAIN BEDDING DETAILS 6-6 AND 6-7, UNLESS SPECIFIED OTHERWISE.
2.

ALL STORM DRAINAGE CONSTRUCTION SHALL CONFORM TO THE CITY OF GREELEY'S MOST RECENT STORM DRAINAGE SPECIFICATIONS. A COPY OF THE SPECIFICATIONS MAY BE OBTAINED FROM THE CITY OR FOUND ON THE CITY'S WEB PAGE- [HTTP://GREELEYGOV.COM/SERVICES/PW/DESIGN-CRITERIA-AND-CONSTRUCTION-SPECIFICATIONS](http://greeleygov.com/services/pw/design-criteria-and-construction-specifications)
3.

RCP SHALL HAVE FLEXIBLE GASKET MATERIAL (WATER TIGHT RUBBER GASKETS) MEETING ASTM C443 AND BELL AND SPGOT JOINTS. DUCTILE IRON PIPE SHALL BE POLY-WRAPPED IN ACCORDANCE WITH AWWA STANDARD C-105.
4.

BACKFILL MATERIAL MAY BE LOCAL SITE MATERIAL THAT IS WELL-GRADED, NON-COHESIVE GRANULAR MATERIAL FREE OF ROCKS, FROZEN LUMPS, FOREIGN MATERIAL OR STONES GREATER THAN 3" IN ANY DIMENSION; AGGREGATE BASE COURSE; OR FLOW FILL. REMOVE ALL DEBRIS INCLUDING SODA CANS, RAGS, PIPE BANDING MATERIAL, ETC. FROM THE PIPE TRENCH BEFORE BACKFILLING.
5.

ALL AREAS IMPACTED BY THE CONSTRUCTION SHALL BE CLEARED OF PROJECT GENERATED DEBRIS BY THE CONTRACTOR AT THE EARLIEST OPPORTUNITY, BUT IN NO CASE SHALL ANY ROADS OR WALKWAYS BE LEFT UNCLEARED AFTER THE COMPLETION OF THE DAY'S WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE NECESSARY EQUIPMENT AND MATERIAL TO SATISFACTORILY CLEAN THE ROADWAYS.
6.

THE CONTRACTOR SHALL BE REQUIRED TO STREET SWEEP IMPACTED STREETS DAILY, IF THE CITY DEEMS IT NECESSARY, TO KEEP THE STREETS FREE OF MUD AND OTHER DEBRIS DUE TO HAULING OPERATIONS.
7.

THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE NECESSARY EQUIPMENT AND MATERIALS TO SATISFACTORILY CONTROL DUST AT ALL TIMES, AND AS DIRECTED BY THE CITY. WATER SHALL BE USED AS THE DUST PALLIATIVE WHERE REQUIRED. THE CONTRACTOR SHALL FURNISH AND SPREAD WATER AT NO ADDITIONAL COST TO THE PROJECT.
8.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE CITY OF GREELEY'S PUBLIC WORKS DEPARTMENT.
9.

THE CONTRACTOR IS REQUIRED TO HAVE A CURRENT CITY OF GREELEY CONTRACTOR'S LICENSE TO PERFORM ANY WORK IN THE PUBLIC RIGHT-OF-WAY OR EASEMENTS.
10.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF ANY WORK ON THE PROJECT. A PERMIT FROM PUBLIC WORKS IS REQUIRED FOR ALL CONSTRUCTION IN THE PUBLIC RIGHT-OF-WAY OR EASEMENTS. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD WITH CITY REPRESENTATIVES BEFORE A PERMIT WILL BE ISSUED.
11.

FEES WILL BE WAIVED ON CITY INITIATED STORMWATER PROJECTS.
12.

THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR ALL CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS (7 AM-6 PM). THE DUTY OF THE CITY TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
13.

THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, BARRICADES, FLAG PERSONS, OR OTHER DEVICES NECESSARY TO PROVIDE PUBLIC SAFETY IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND THE GREELEY SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL.
14.

THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO ATMOS ENERGY; CENTURY LINK; XCEL ENERGY; COMCAST CABLE; AND THE CITY OF GREELEY'S WATER AND SEWER DEPARTMENT, PRIOR TO COMMENCING CONSTRUCTION, TO HAVE ALL EXISTING LINES AND CONDUITS FIELD LOCATED.

15.

THE SIZE, TYPE, AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE OWNER TO LOCATE ALL UNDERGROUND UTILITIES IN THE AREA OF THE WORK BEFORE COMMENCING CONSTRUCTION.

UTILITY GENERAL NOTES

1.

ALL CONSTRUCTION WORK TO BE ACCEPTED BY THE CITY SHALL CONFORM TO THE CITY OF GREELEY CONSTRUCTION SPECIFICATIONS AND DESIGN STANDARDS.
2.

ALL OVER LOT GRADING IN THE RIGHT-OF-WAY OR EASEMENT SHALL BE COMPLETED PRIOR TO INSTALLING POTABLE WATER, SANITARY SEWER, OR NON-POTABLE IRRIGATION LINES.
3.

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION. CALL UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 OR DIAL 811 FOR UTILITY LOCATES 48 HOURS PRIOR TO ANY EXCAVATION WORK.
4.

MAINTAIN A MINIMUM OF TEN (10) FEET HORIZONTAL CLEAR DISTANCE SEPARATION BETWEEN POTABLE WATER MAINS/SERVICES AND SANITARY SEWER OR NON-POTABLE IRRIGATION MAINS/SERVICES. POTABLE WATER MAINS/SERVICES ARE TO BE LOCATED 18-INCHES MINIMUM ABOVE THE SANITARY SEWER OR NON-POTABLE IRRIGATION MAINS/SERVICES. IF FIELD CONDITIONS VARY FROM THOSE SHOWN ON THESE PLANS AND THE SANITARY SEWER OR NON-POTABLE MAINS/SERVICES CANNOT BE LOCATED BELOW THE WATER MAIN OR SERVICE, A CLEAR VERTICAL DISTANCE OF EIGHTEEN (18) INCHES BELOW CANNOT BE MAINTAINED, OR A MINIMUM TEN (10) FOOT HORIZONTAL SEPARATION CANNOT BE ACHIEVED, THE CITY SHALL BE CONTACTED IMMEDIATELY TO REVIEW THE SITUATION.
5.

IN ALL INSTANCES WHERE A WATER LINE LOWERING, POTABLE OR NON-POTABLE, IS REQUIRED DUE TO UNFORESEEN FIELD CONDITIONS, A DETAILED DRAWING SHALL BE PROVIDED TO THE CITY FOR ACCEPTANCE PRIOR TO PERFORMING THE WORK.
6.

WHERE POTABLE WATER, SANITARY SEWER, AND NON-POTABLE IRRIGATION LINES ARE LOCATED IN COMMON UTILITY EASEMENT AREAS, THERE SHALL BE NO OTHER UTILITIES LOCATED HORIZONTALLY WITHIN TEN (10) FEET OF EITHER LINE EXCEPT AT APPROVED CROSSINGS.
7.

CONTRACTOR SHALL NOTIFY THE CITY ONE (1) WEEK PRIOR TO COMMENCING WORK AFTER CITY ACCEPTED CONSTRUCTION DRAWINGS HAVE BEEN DISTRIBUTED AND A PRECONSTRUCTION MEETING HAS BEEN HELD WITH THE CITY.
8.

CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES TO BE CROSSED BY POTABLE WATER, SANITARY SEWER, OR NON-POTABLE IRRIGATION LINES AT LEAST 24 HOURS PRIOR TO CROSSING TO ENSURE 18" MINIMUM CLEARANCE FOR OPEN CUT CROSSINGS AND 36" MINIMUM CLEARANCE FOR BORED CROSSINGS. HORIZONTAL AND VERTICAL LOCATION OF CROSSED EXISTING UTILITIES SHALL BE RECORDED ON THE AS-CONSTRUCTED RECORD DRAWINGS.
9.

SHOULD ANY VARIATIONS BEFORE OR DURING CONSTRUCTION TO THE POTABLE WATER DISTRIBUTION, SANITARY SEWER COLLECTION, OR NON-POTABLE IRRIGATION SYSTEM DESIGNS BE CONSIDERED, NOTICE MUST FIRST BE GIVEN TO THE CITY TO DETERMINE IF IT NEEDS ACCEPTANCE BY THE CITY. IF SO, A NEW PLAN SHALL BE DRAWN AND SUBMITTED TO THE CITY FOR ACCEPTANCE BY THE DESIGN ENGINEER 72 HOURS PRIOR TO CONSTRUCTION.
10.

FINAL CONSTRUCTION PLANS ARE VALID FOR CONSTRUCTION ONE (1) YEAR FROM THE DATE OF CITY SIGNATURE ACCEPTANCE.
11.

ALL POTABLE WATER MAINS, SERVICES, AND HYDRANT LINES SHALL HAVE A MINIMUM COVER OF FIVE (5) FEET AND A MAXIMUM COVER OF SIX (6) FEET UNLESS OTHERWISE INDICATED ON THE ACCEPTED CONSTRUCTION DRAWINGS.
12.

ALL NON-POTABLE WATER MAINS AND SERVICES SHALL HAVE A MINIMUM COVER OF THREE AND A HALF (3.5) FEET AND A MAXIMUM COVER OF SIX (6) FEET UNLESS OTHERWISE INDICATED ON THE ACCEPTED CONSTRUCTION DRAWINGS.
13.

ALL NEW WATER MAINS SHALL BE BULKHEADED AND TESTED AND APPROVED PRIOR TO CONNECTION TO THE EXISTING WATER SYSTEM. VALVES WHICH PASS TESTING FOR PRESSURE AND LEAKAGE AT THE TIME OF INSTALLATION AND THE TESTING WAS PERFORMED IN THE PRESENCE OF THE CITY MAY BE CONSIDERED AS A BULKHEAD.
14.

VERIFICATION SURVEY - TOP OF PIPE ELEVATIONS AT ALL POTABLE AND NON-POTABLE WATER LINE VALVES, AND SANITARY SEWER MANHOLE INVERTS SHALL BE SURVEYED AND PROVIDED TO THE CITY BY THE DESIGN ENGINEER FOR ACCEPTANCE PRIOR TO PAVING CONSTRUCTION. THE VERIFICATION SURVEY SHALL ALSO PROVIDE SEWER PIPE SLOPES AND LENGTH AND PROPOSED FINISHED GROUND ELEVATIONS AT ALL VALVE BOXES AND MANHOLE RIM ELEVATIONS.
15.

ALL UTILITY CONDUIT CROSSINGS OF POTABLE WATER, SANITARY SEWER AND NON-POTABLE IRRIGATION LINES SHALL BE ENCASED IN HIGH DENSITY POLYETHYLENE (HDPE) PIPE, WITH A MINIMUM STANDARD DIMENSION RATIO (SDR) 11 ACROSS THE ENTIRE EASEMENT OR RIGHT-OF-WAY WIDTH. THE ENCASEMENT JOINT SHALL BE BUTT FUSED. FLEXIBLE JOINTS ARE NOT ALLOWED.
16.

WET TAPS SHALL BE DRILLED BY THE CITY FOR A FEE. CALL 970-350-9810 AT LEAST 48 HOURS IN ADVANCE TO PAY FEES AND SCHEDULE TAP.
17.

ABANDON THE EXISTING WATER SERVICE PER CITY OF GREELEY WATER AND SEWER SPECIFICATIONS. A CITY OF GREELEY REPRESENTATIVE MUST BE PRESENT DURING ABANDONMENT OF SERVICES.
18.

WATER SERVICE AND MAIN ABANDONMENT PROCEDURES:

18.1.

¾" TO 2" DIRECT TAPS ON DIP OR CAST IRON:

18.1.1.

EXCAVATE THE WATER MAIN, TURN OFF THE CORPORATION STOP, CUT OUT A 1 FT SECTION OF THE SERVICE LINE, INSTALL A PLUGGED TUBE NUT AT THE CORPORATION STOP, CRIMP THE EXISTING WATER SERVICE LINE, AND REMOVE THE CURB STOP BOX AT THE PROPERTY LINE.

18.2.

¾" TO 2" TAPS ON C-900 PVC:

18.2.1.

EXCAVATE THE WATER MAIN, REMOVE THE CORPORATION STOP, CUT OUT A 1 FT SECTION OF THE SERVICE LINE, PLUG THE TAPPING SADDLE, CRIMP THE EXISTING WATER SERVICE LINE, AND REMOVE THE CURB STOP BOX AT THE PROPERTY LINE.

18.3.

4" AND LARGER:

18.3.1.

EXCAVATE THE WATER MAIN, REMOVE THE GATE VALVE, AND CAP OR PLUG THE TEE. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING AFFECTED CUSTOMERS 24 HOURS PRIOR TO WATER SHUT DOWN. ONLY CITY OF GREELEY WATER DEPARTMENT PERSONNEL SHALL OPERATE THE MAIN LINE VALVES.

19.

PRIOR TO EXCAVATION AND CONSTRUCTION OVER AND NEAR THE EXISTING WATER AND SEWER MAINS, PLEASE CONTACT THE WATER AND SEWER DEPARTMENT RIGHT-OF-WAY STAFF AT (970) 350-9539, TO COMPLETE THE APPLICABLE DOCUMENTATION TO WORK WITHIN THE RIGHT OF WAY AND EASEMENTS.

Owner

City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/ Civil Engineer/ Structural

Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect

DHM Design
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer

The Ballard Group, Inc.
2525 South Wadsworth Blvd, Suite 200
Lakewood, Colorado 80227
303.988.4514

Electrical Engineer

CMO Consulting Engineer
11646 Sun Bear Trail
Golden, Colorado 80403
303.875.4037

City of Greeley

GREELEY FIRE STATION #6

10603 20th St, Greeley, Colorado 80634

City of
Greeley

Colorado

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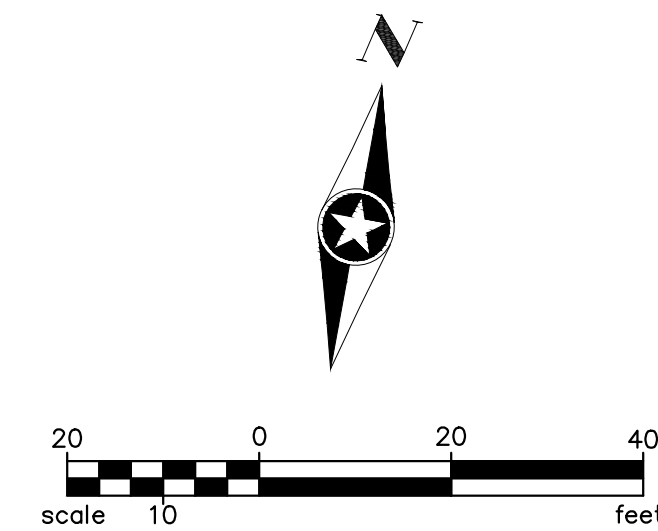
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150267
T. NUETZEL
J. JONES

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Project Status 75% DRAWING SET		Issue Date 09/13/2019	
Revision Issue			
Rev. #	Description	Date	

CIVIL GENERAL
NOTES

C
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Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect
DHM Design
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc.
2525 South Wadsworth Blvd, Suite 200
Lakewood, Colorado 80227
303.988.4514

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Golden, Colorado 80403
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City of Greeley
GREELEY FIRE STATION #6
10603 20th St, Greeley, Colorado 80634

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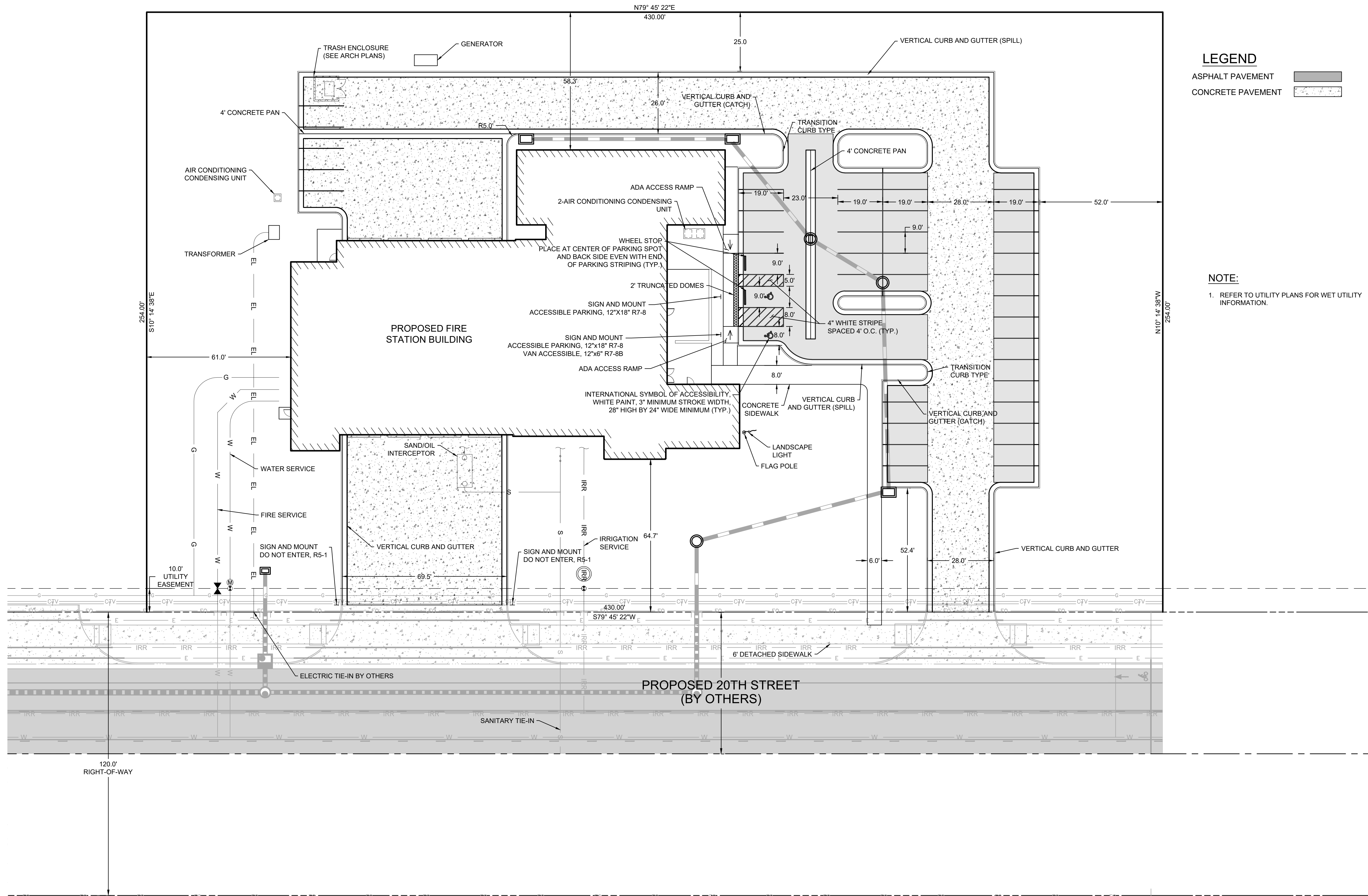
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Issue Date
09/13/2019

Rev. #	Description	Date

SITE PLAN

C
101



Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc.
2525 South Wadsworth Blvd, Suite 200
Lakewood, Colorado 80227
303.368.4514

Electrical Engineer
CMO Consulting Engineer
11646 Sun Bear Trail
Golden, Colorado 80403
303.875.4037

City of Greeley
GREELEY FIRE STATION #6

10603 20th St, Greeley, Colorado 80634



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T. NUTZEL
J. JONES

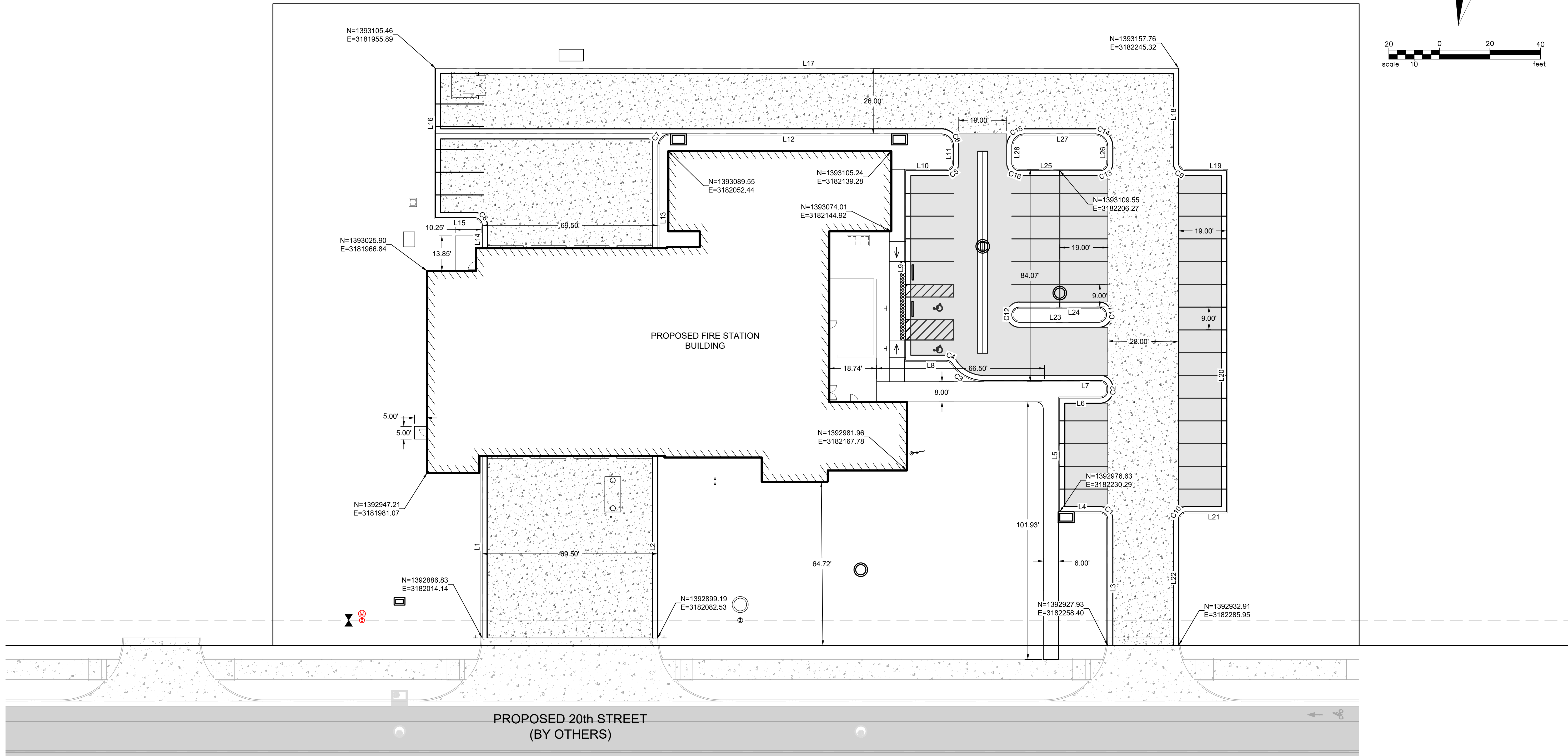
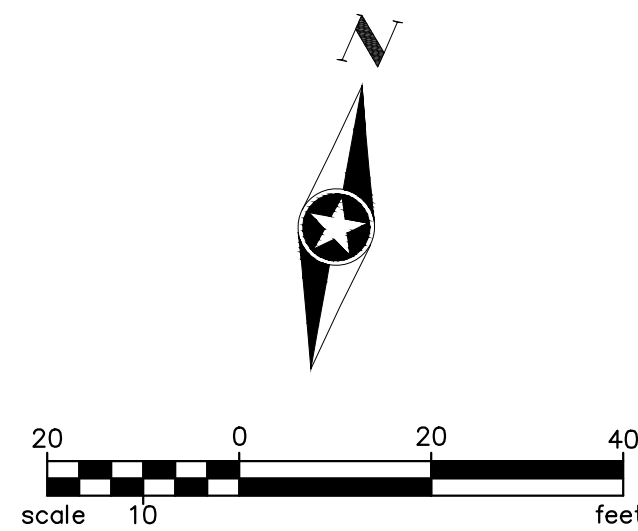
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09/13/2019

Revision Issue
Rev. # Description Date

HORIZONTAL
CONTROL PLAN

C
301



POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
502	1392736.77	3181545.71	4931.92	SET #4 REBAR WITH 2" ALUMINUM CAP
504	1393160.98	3181542.15	4948.31	SET #4 REBAR WITH 2" ALUMINUM CAP

CONTROL STATEMENT:

HORIZONTAL CONTROL IS BASED ON COLORADO STATE PLANE COORDINATE SYSTEM NORTH ZONE (0501) COORDINATES NAD 83(2011) AT MODIFIED STATE PLANE. A SCALE FACTOR OF 0.99973537 WAS APPLIED ABOUT THE ORIGIN 0.0 TO REDUCE TO STATE PLANE COORDINATES.

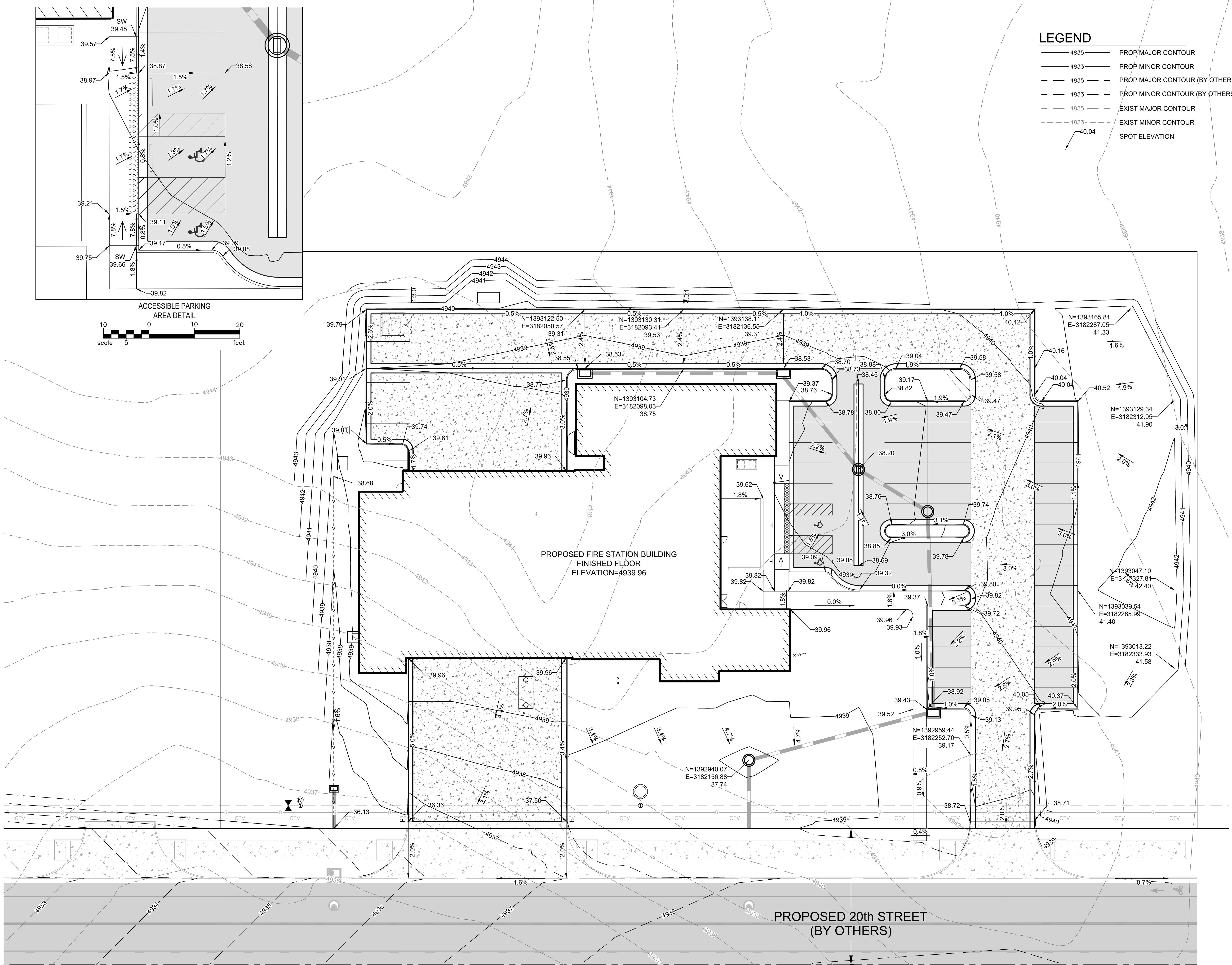
HORIZONTAL CONTROL BASED UPON TRIMBLE VRS NETWORK SOLUTION.
VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988
VERTICAL CONTROL BASED UPON TRIMBLE VRS NETWORK SOLUTION.

LINE TABLE					
LINE	DIRECTION	LENGTH	START NORTHING	START EASTING	
L1	N10° 14' 38"W	72.07'	1392886.83	3182014.14	
L2	N10° 14' 38"W	72.07'	1392899.19	3182082.53	
L3	S10° 14' 38"E	49.93'	1392977.06	3182249.52	
L4	N79° 45' 22"E	16.00'	1392976.63	3182230.29	
L5	N10° 14' 38"W	45.00'	1392976.63	3182230.29	
L6	S79° 45' 22"W	16.00'	1393023.76	3182238.03	
L7	S79° 45' 22"W	46.03'	1393030.65	3182236.79	
L8	S79° 45' 22"W	16.00'	1393027.67	3182175.34	
L9	N10° 14' 38"W	75.00'	1393024.83	3182159.59	
L10	N79° 45' 22"E	16.00'	1393098.63	3182146.25	
L11	N10° 14' 38"W	6.57'	1393104.96	3182164.42	
L12	S79° 45' 22"W	200.11'	1393115.46	3182157.44	
L13	S10° 14' 38"E	40.22'	1393090.61	3182048.03	
L14	N10° 14' 38"W	9.05'	1393038.67	3181986.79	

LINE TABLE					
LINE	DIRECTION	LENGTH	START NORTHING	START EASTING	
L15	S79° 45' 22"W	15.53'	1393050.00	3181981.70	
L16	N10° 14' 38"W	59.17'	1393047.24	3181966.41	
L17	N79° 45' 22"E	294.11'	1393105.46	3181955.89	
L18	S10° 14' 38"E	37.57'	1393157.76	3182245.32	
L19	N79° 45' 22"E	16.00'	1393118.37	3182255.48	
L20	S10° 14' 38"E	135.00'	1393121.22	3182271.23	
L21	S79° 45' 22"W	16.00'	1392988.37	3182295.24	
L22	S10° 14' 38"E	49.93'	1392982.04	3182277.07	
L23	N79° 45' 22"E	31.50'	1393047.59	3182201.21	
L24	S79° 45' 22"W	31.50'	1393059.10	3182231.14	
L25	N79° 45' 22"E	32.00'	1393106.63	3182190.54	
L26	N10° 14' 38"W	6.57'	1393115.81	3182224.44	
L27	S79° 45' 22"W	28.00'	1393126.31	3182217.47	
L28	S10° 14' 38"E	6.57'	1393115.52	3182185.88	

CURVE TABLE: ALIGNMENTS							
CURVE	RADIUS	LENGTH	DELTA	CHORD DIRECTION	CHORD LENGTH	START NORTHING	START EASTING
C1	3.00'	4.71'	90°00'00"	N55° 14' 38"W	4.24	1392977.06	3182249.52
C2	3.00'	4.71'	90°00'00"	N34° 45' 22"E	4.24	1393023.76	3182238.03
C3	15.00'	14.73'	56°15'04"	N72° 07' 06"W	14.14	1393022.46	3182191.49
C4	3.00'	2.95'	56°15'04"	N72° 07' 06"W	2.83	1393026.80	3182178.03
C5	3.00'	4.71'	90°00'00"	N34° 45' 22"E	4.24	1393101.48	3182162.00
C6	5.00'	7.85'	90°00'00"	N55° 14' 38"W	7.07	1393111.43	3182163.25
C7	5.00'	7.85'	89°59'59"	S34° 45' 22"W	7.07	1393096.42	3182052.06
C8	3.00'	4.71'	90°00'00"	N55° 14' 38"W	4.24	1393047.58	3181985.18
C9	3.00'	4.71'	90°00'00"	S55° 14' 38"E	4.24	1393120.79	3182252.00
C10	3.00'	4.71'	90°00'00"	S34° 45' 22"W	4.24	1392985.52	3182279.49
C11	3.00'	9.42'	180°00'00"	N10° 14' 38"W	6.00	1393053.19	3182232.20
C12	3.00'	9.42'	180°00'00"	S10° 14' 38"E	6.00	1393053.50	3182200.14
C13	3.00'	4.71'	90°00'00"	N34° 45' 22"E	4.24	1393112.33	3182222.03
C14	5.00'	7.85'	90°00'00"	N55° 14' 38"W	7.07	1393122.28	3182223.28
C15	5.00'	7.85'	90°00'00"	S34° 45' 22"W	7.07	1393121.33	3182189.91
C16	3.00'	4.71'	90°00'00"	S55° 14' 38"E	4.24	1393109.05	3182187.05

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GRADING NOTES

1. ADD 4900 TO ALL SPOT ELEVATIONS FOR TRUE ELEVATION.
2. ALL ELEVATIONS AT CURB ARE FLOWLINE UNLESS OTHERWISE NOTED.
3. ALL RAMPS AND WALKS TO BE INSTALLED PER CURRENT ADA REQUIREMENTS.

SEEDING REQUIREMENTS AND NOTES

1. RESTORATION OF ANY AREAS DISTURBED BY THE PROPOSED GRADING ACTIVITIES SHALL BE DONE IN COMPLIANCE WITH THE REQUIREMENTS OUTLINED IN SECTION 14 – VEGETATION & IRRIGATION OF THE STORM DRAINAGE DESIGN CRITERIA AND CONSTRUCTION STANDARDS.
2. CITY OF GREELEY REPRESENTATIVE SHALL BE ON SITE DURING ALL SEEDING ACTIVITIES TO INSPECT THE CONDITIONS AND ENSURE COMPLIANCE WITH THE STORM DRAINAGE DESIGN CRITERIA AND CONSTRUCTION STANDARDS UNLESS OTHERWISE APPROVED BY THE CITY.
3. TO SCHEDULE THIS REQUIRED INSPECTION, PLEASE CALL (970) 350-9539 AT LEAST 48 HOURS IN ADVANCE OF THE SEEDING ACTIVITIES.
4. ALL SEED BAGS TAGS MUST BE TURNED IN TO THE CITY OF GREELEY REPRESENTATIVE.

Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc.
2525 South Wadsworth Blvd, Suite 200
Lakewood, Colorado 80227
303.988.4514

Electrical Engineer
CMO Consulting Engineer
11646 Sun Bear Trail
Golden, Colorado 80403
303.875.4037

GREELEY FIRE STATION #6

City of Greeley

10603 20th St, Greeley, Colorado 80634



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Checked By
Drawn By

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T. NUTZEL
J. JONES

Project Status
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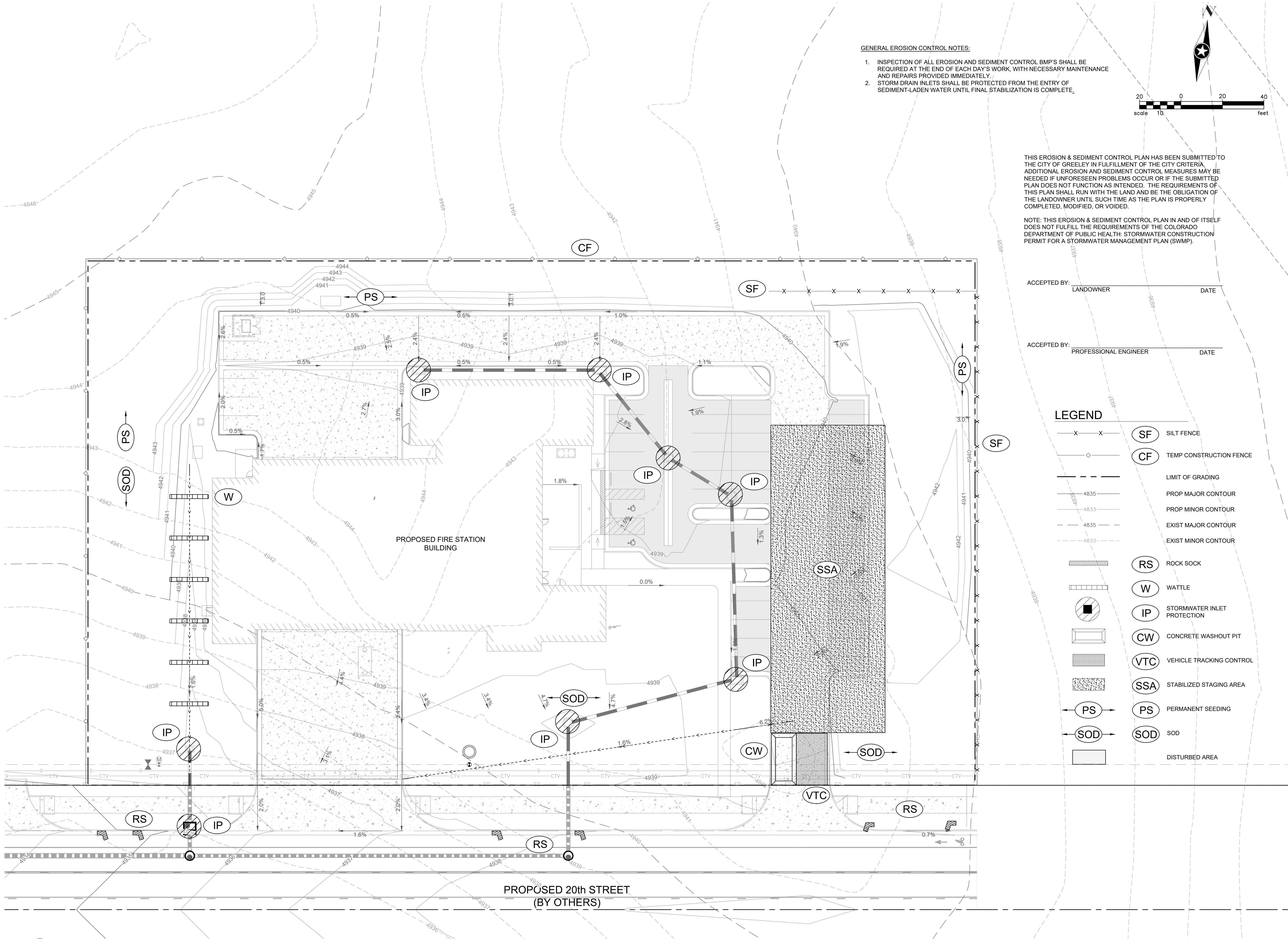
Issue Date
09/13/2019

Revision Issue		
Rev. #	Description	Date

GRADING PLAN

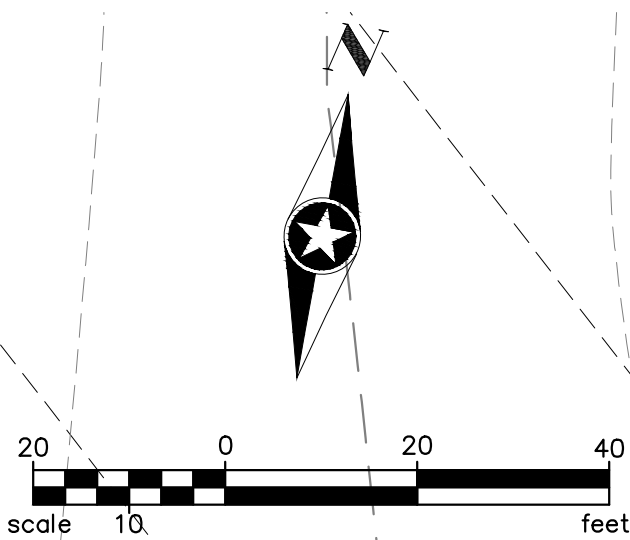
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GENERAL EROSION CONTROL NOTES:

1. INSPECTION OF ALL EROSION AND SEDIMENT CONTROL BMP'S SHALL BE REQUIRED AT THE END OF EACH DAY'S WORK, WITH NECESSARY MAINTENANCE AND REPAIRS PROVIDED IMMEDIATELY.
2. STORM DRAIN INLETS SHALL BE PROTECTED FROM THE ENTRY OF SEDIMENT-LADEN WATER UNTIL FINAL STABILIZATION IS COMPLETE.



THIS EROSION & SEDIMENT CONTROL PLAN HAS BEEN SUBMITTED TO THE CITY OF GREELEY IN FULFILLMENT OF THE CITY CRITERIA. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE NEEDED IF UNFORESEEN PROBLEMS OCCUR OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS PLAN SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE LANDOWNER UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED, OR VOIDED.

NOTE: THIS EROSION & SEDIMENT CONTROL PLAN IN AND OF ITSELF DOES NOT FULFILL THE REQUIREMENTS OF THE COLORADO DEPARTMENT OF PUBLIC HEALTH: STORMWATER CONSTRUCTION PERMIT FOR A STORMWATER MANAGEMENT PLAN (SWMP).

ACCEPTED BY: LANDOWNER DATE

ACCEPTED BY: PROFESSIONAL ENGINEER DATE

LEGEND

	(SF)	SILT FENCE
	(CF)	TEMP CONSTRUCTION FENCE
		LIMIT OF GRADING
		PROP MAJOR CONTOUR
		PROP MINOR CONTOUR
		EXIST MAJOR CONTOUR
		EXIST MINOR CONTOUR
	(RS)	ROCK SOCK
	(W)	WATTLE
	(IP)	STORMWATER INLET PROTECTION
	(CW)	CONCRETE WASHOUT PIT
	(VTC)	VEHICLE TRACKING CONTROL
	(SSA)	STABILIZED STAGING AREA
	(PS)	PERMANENT SEEDING
	(SOD)	SOD
		DISTURBED AREA



NOT FOR CONSTRUCTION

Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc.
2525 South Wadsworth Blvd, Suite 200
Lakewood, Colorado 80427
303.988.4514

Electrical Engineer
CMO Consulting Engineer
11646 Sun Bear Trail
Golden, Colorado 80403
303.875.4037

City of Greeley
GREELEY FIRE STATION #6
10603 20th St, Greeley, Colorado 80634



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J. JONES

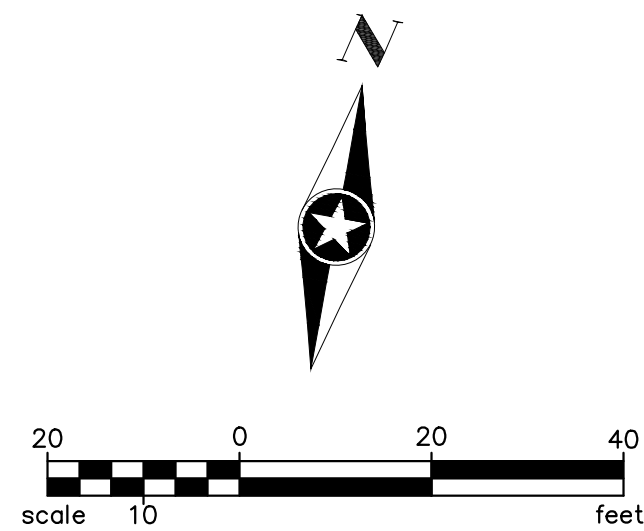
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Issue Date
09/13/2019

Revision Issue		
Rev. #	Description	Date

EROSION
CONTROL PLAN

C
501



Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc.
2525 South Wadsworth Blvd, Suite 200
Lakewood, Colorado 80227
303.988.4514

Electrical Engineer
CMO Consulting Engineer
11646 Sun Bear Trail
Golden, Colorado 80403
303.875.4037

City of Greeley
GREELEY FIRE STATION #6
10603 20th St, Greeley, Colorado 80634



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T. NUTZEL
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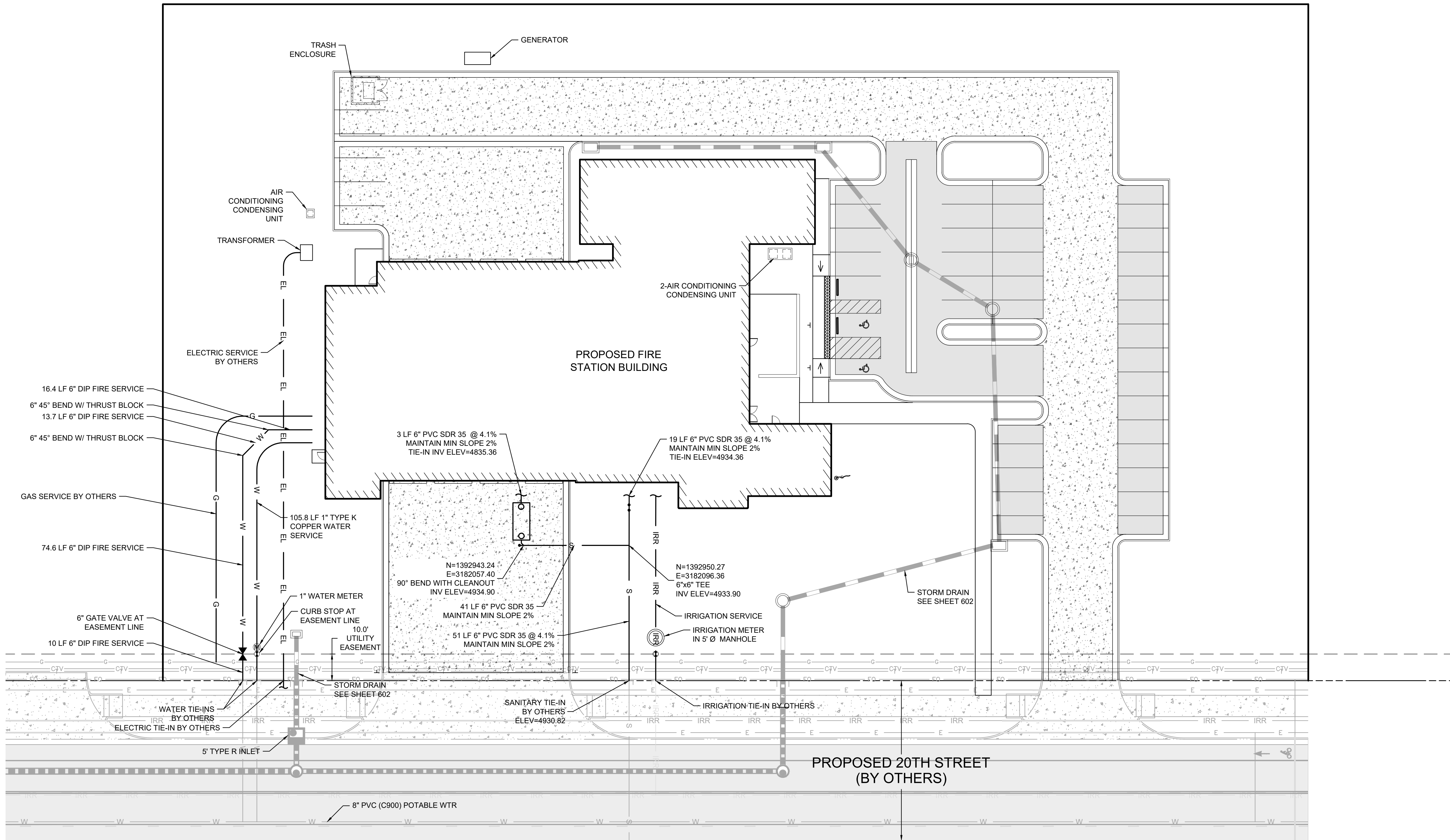
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Issue Date
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Rev. #	Description	Date

UTILITY PLAN

C
601



Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc.
2525 South Wadsworth Blvd, Suite 200
Lakewood, Colorado 80227
303.588.4514

Electrical Engineer
CMO Consulting Engineer
11646 Sun Bear Trail
Golden, Colorado 80403
303.875.4037

Greeley Fire Station #6

10803 20th St, Greeley, Colorado 80634



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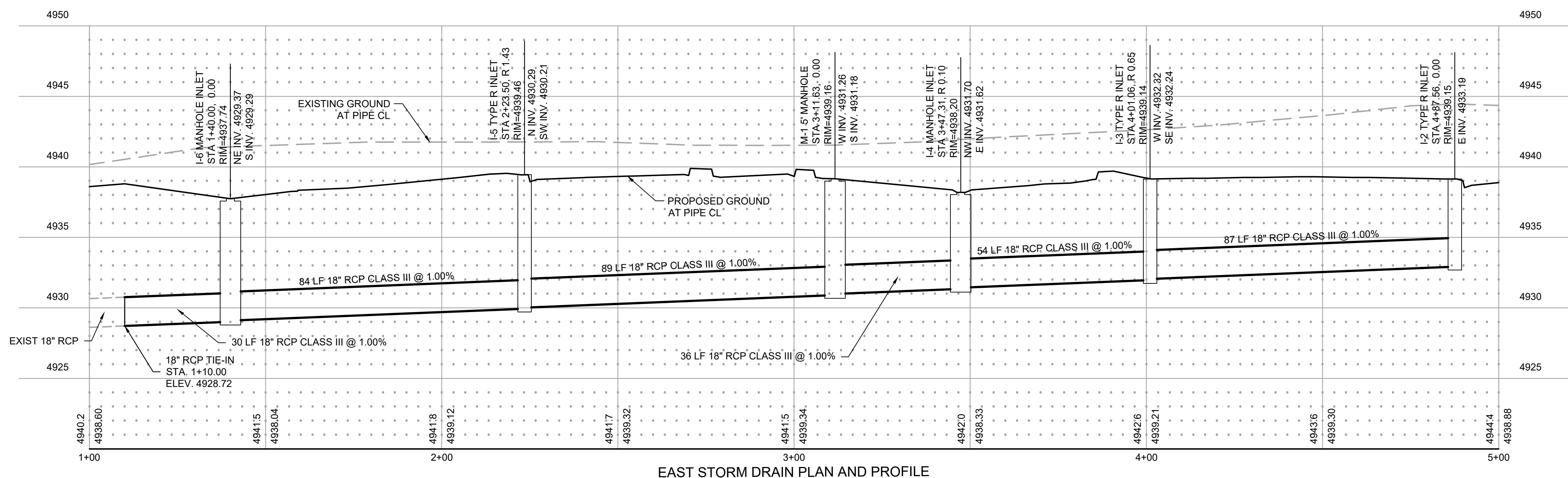
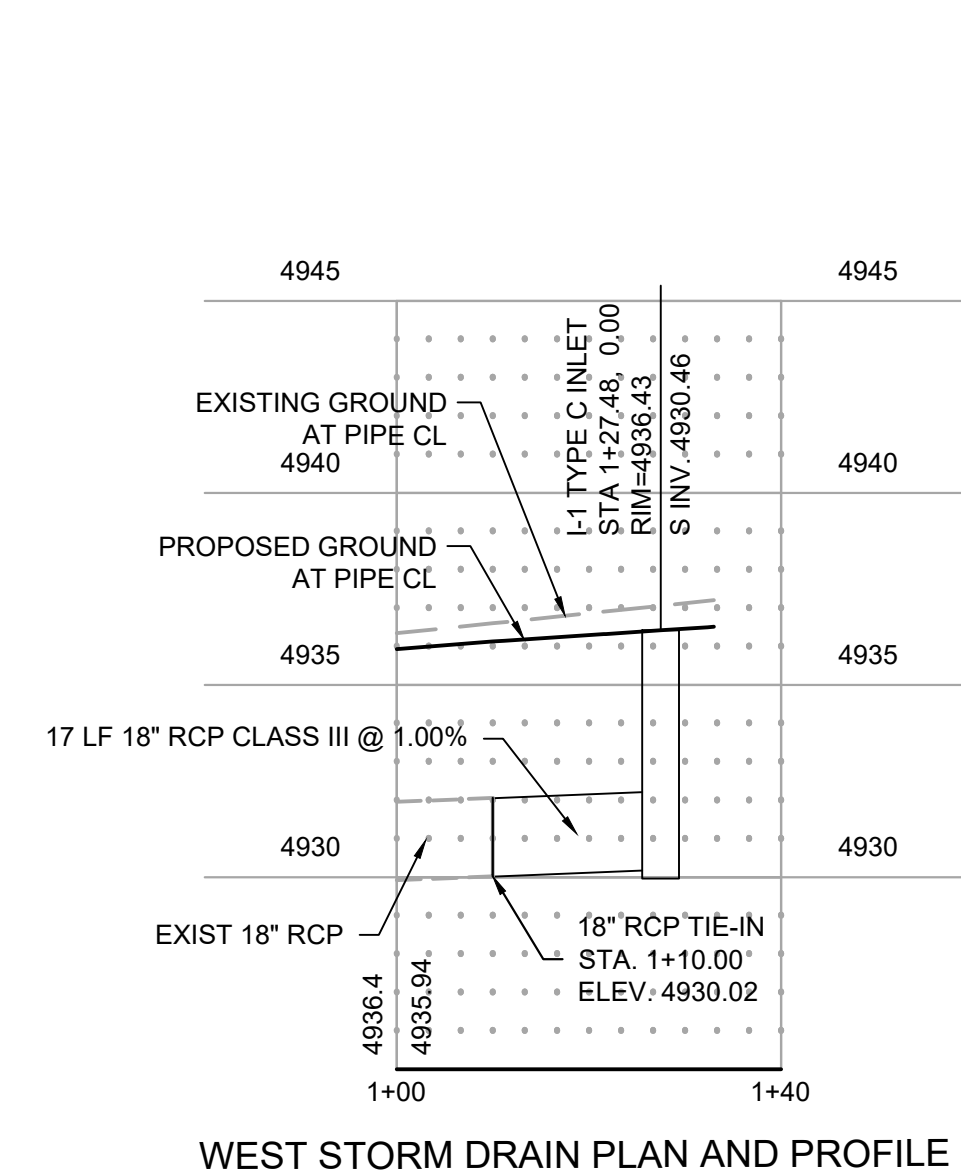
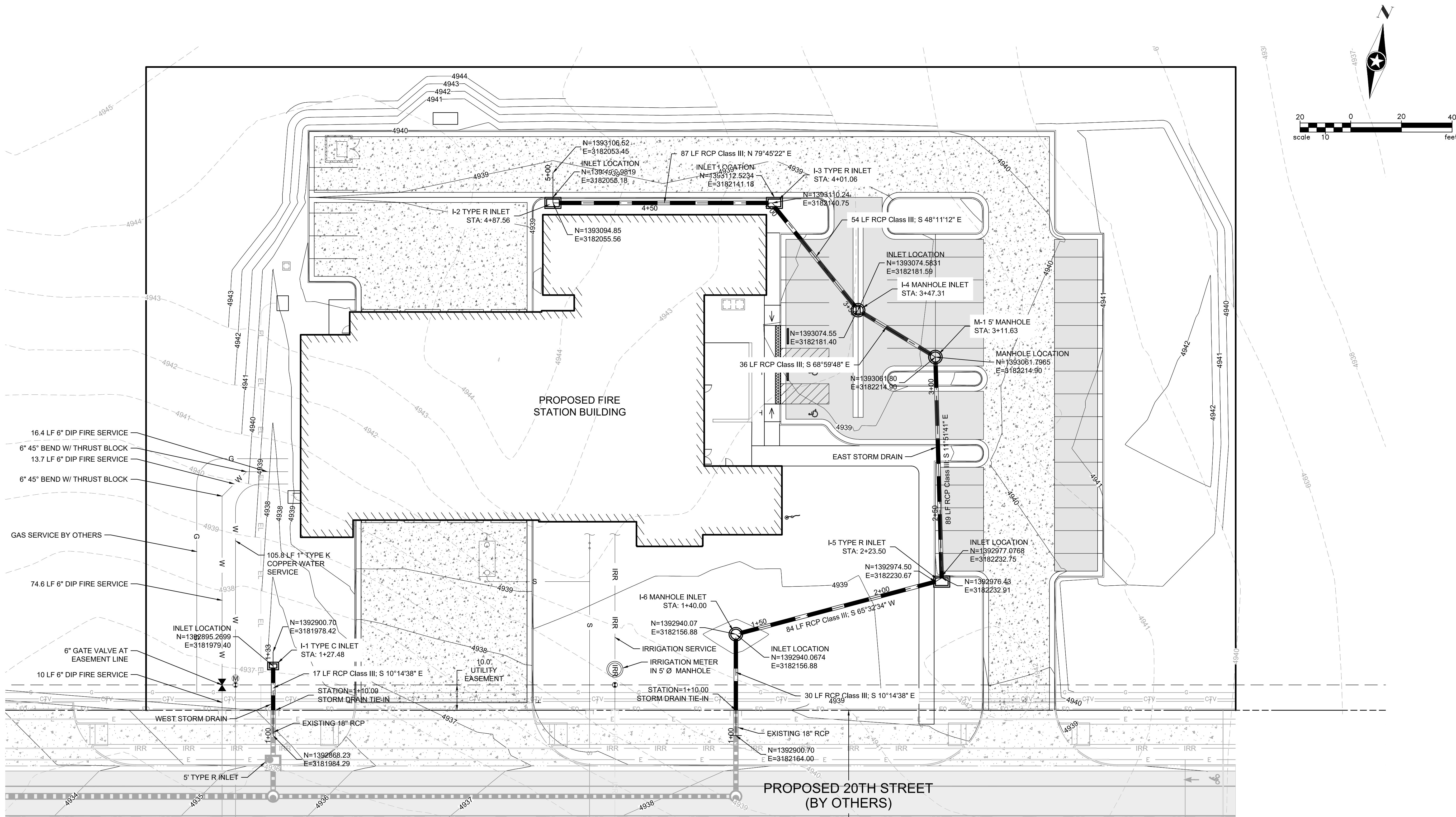
Issue Date
09/13/2019

Revision Issue

Rev. # Description Date

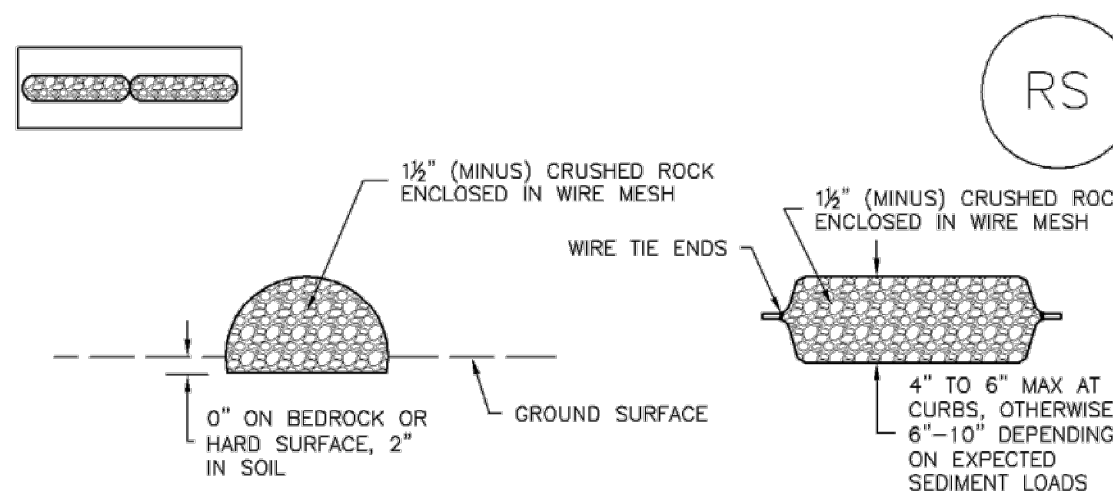
STORM DRAIN PLAN &
PROFILE

C
602



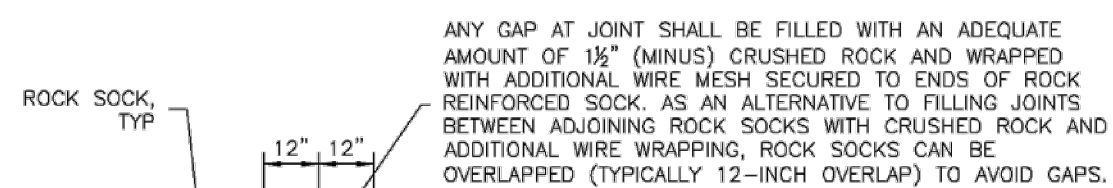
SC-5

Rock Sock (RS)



ROCK SOCK SECTION

ROCK SOCK PLAN



ROCK SOCK JOINTING

ROCK SOCK INSTALLATION NOTES

- SEE PLAN VIEW FOR:
-LOCATION(S) OF ROCK SOCKS.
- CRUSHED ROCK SHALL BE 1/2" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET (1/2" MINUS).
- WIRE MESH SHALL BE FABRICATED OF 10 GAGE POULTRY MESH, OR EQUIVALENT, WITH A MAXIMUM OPENING OF 1/2", RECOMMENDED MINIMUM ROLL WIDTH OF 48"
- WIRE MESH SHALL BE SECURED USING "HOC RINGS" OR WIRE TIES AT 6" CENTERS ALONG ALL JOINTS AND AT 2" CENTERS ON ENDS OF SOCKS.
- SOME MUNICIPALITIES MAY ALLOW THE USE OF FILTER FABRIC AS AN ALTERNATIVE TO WIRE MESH FOR THE ROCK ENCLOSURE.

RS-1. ROCK SOCK PERIMETER CONTROL

RS-2

Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

November 2010

November 2010

Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

RS-3

Rock Sock (RS)

SC-5

ROCK SOCK MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, OR DAMAGED BEYOND REPAIR.
- SEDIMENT ACCUMULATED UPSTREAM OF ROCK SOCKS SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/2 OF THE HEIGHT OF THE ROCK SOCK.
- ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
- WHEN ROCK SOCKS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

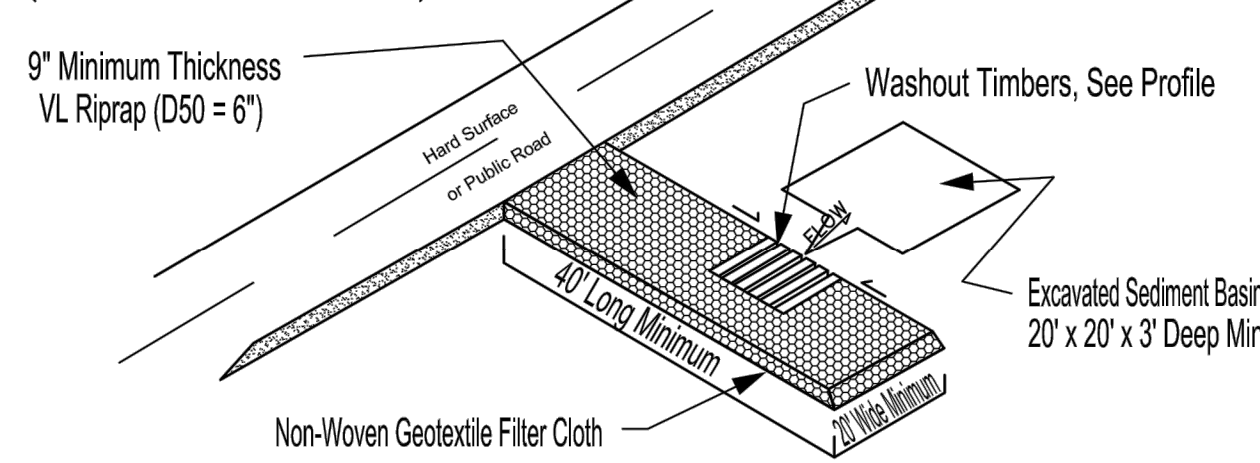
(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF ROCK SOCK INSTALLATION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY OTHER SIMILAR PROPRIETARY PRODUCTS ON THE MARKET. UDFCD NEITHER ENDORSES NOR DISCOURAGES USE OF PROPRIETARY PROTECTION PRODUCTS; HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.

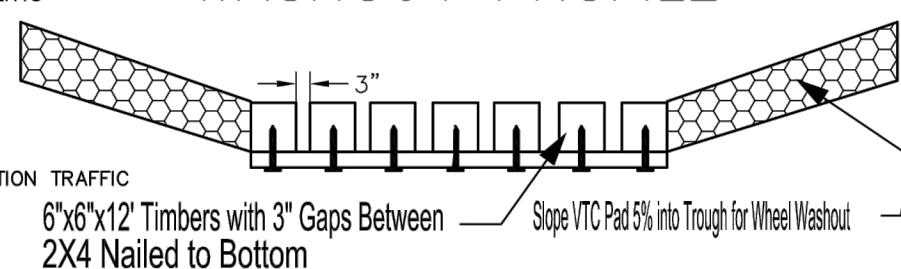
VTC/WHEEL WASHOUT PLAN

(VTC = VERTICAL TRACKING CONTROL)

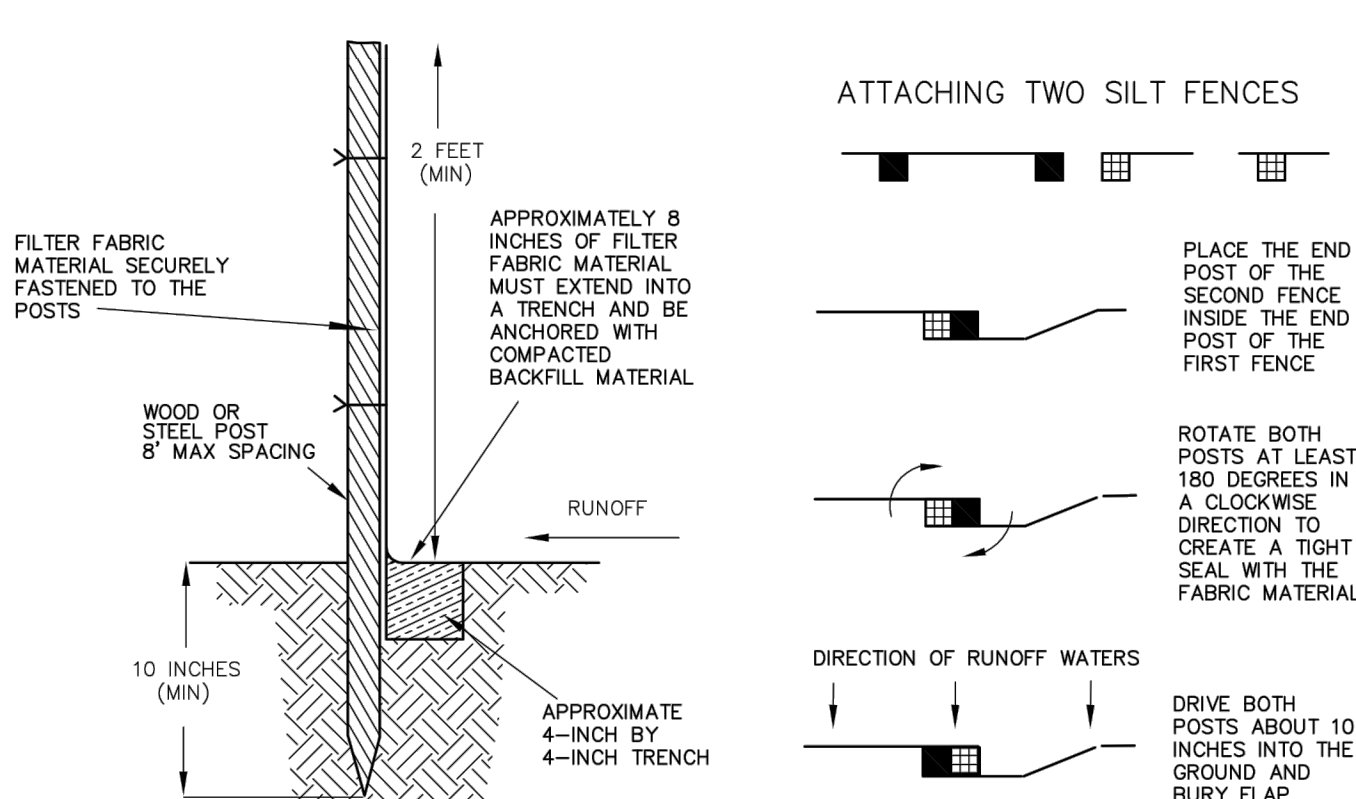


- NOTES:
- CONTRACTOR TO SUPPLY WASH WATER
 - WASHOUT BASIN TO BE ISOLATED FROM STORM SYSTEM
 - VTC PAD RIP RAP TO BE CLEANED OF MUD AFTER RAIN EVENTS
 - PUBLIC ROADS TO BE CLEANED OF DEBRIS AT THE END OF EACH DAYS WORK OR AFTER RAIN EVENTS, AS NEEDED.
 - WHEEL WASHOUT TIMBERS REQUIRED ONLY ON EXIT SIDE OF PAD, SECURE TIMBER GAP WITH 2X4 NAILED TO BOTTOM OF TIMBERS EACH END
 - VTC PAD TO BE DELINEATED TO ENSURE USE BY CONSTRUCTION TRAFFIC

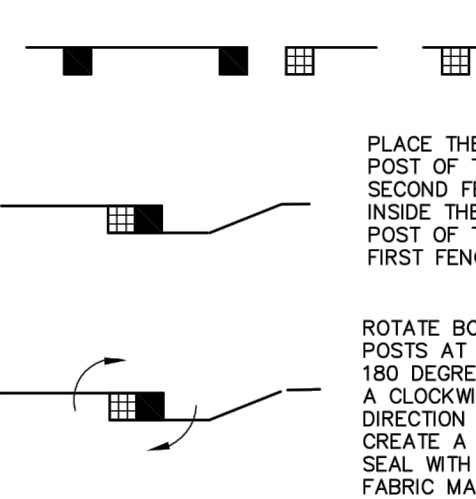
WASHOUT PROFILE



SILT FENCE INSTALLATION



ATTACHING TWO SILT FENCES



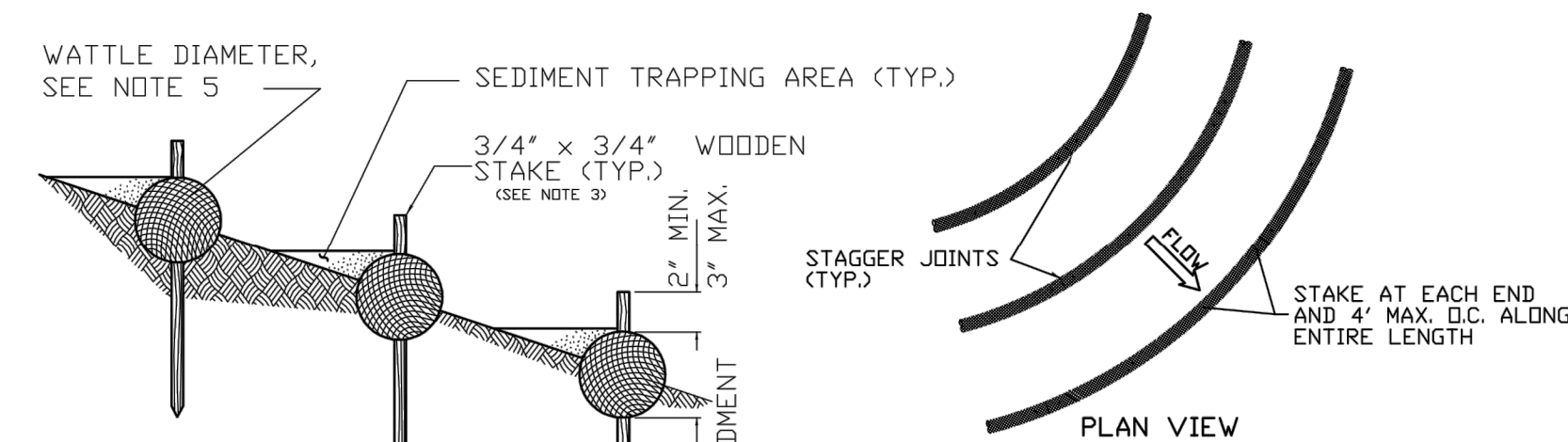
EROSION CONTROL STRUCTURES

DETAIL 12-1

DATE: MARCH 2007

SCALE: N.T.S.

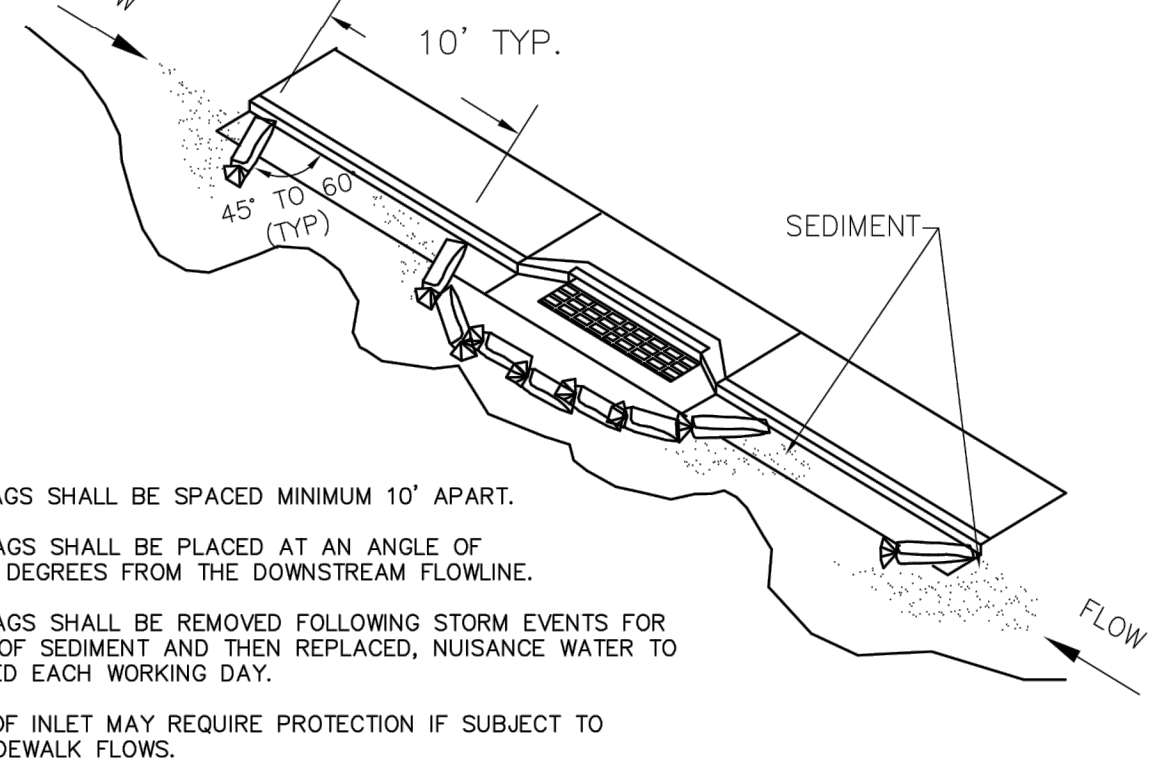
SLOPE AND SWALE PROTECTION



- NOTES:
- INSTALL WATTLES ALONG CONTOURS, FULL LENGTH OF SLOPE OR EXTENT OF SWALE.
 - WATTLES SHALL BE INSPECTED REGULARLY AND IMMEDIATELY AFTER A RUNOFF PRODUCING RAINFALL TO ENSURE THEY REMAIN THOROUGHLY ENTRENCHED AND IN CONTACT WITH THE SOIL.
 - LIVE STAKES MAY BE USED FOR PERMANENT INSTALLATIONS.
 - INSTALL WATTLES SNUGLY INTO THE TRENCH (4" DEEP). ADJUT ADJACENT WATTLES TIGHTLY, END TO END, WITHOUT OVERLAPPING THE ENDS.
 - WATTLES TO BE 9" MIN DIAMETER FOR SLOPES, 12" MIN DIAMETER FOR SWALES.

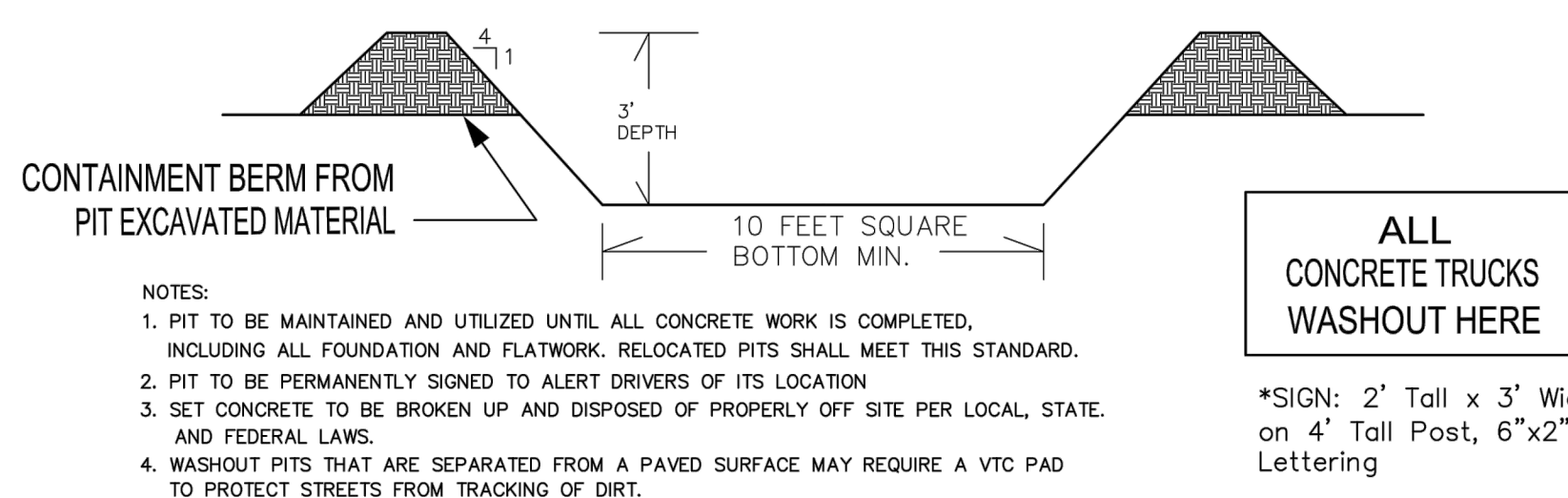
WATTLE SPACING TABLE	
SLOPE TYPE	MAXIMUM SPACING
ALL SWALES	20 FEET
4:1 SLOPE OR >	40 FEET

INLET PROTECTION



- NOTES:
- SANDBAGS SHALL BE SPACED MINIMUM 10' APART.
 - SANDBAGS SHALL BE PLACED AT AN ANGLE OF 45 TO 60 DEGREES FROM THE DOWNSTREAM FLOWLINE.
 - SANDBAGS SHALL BE REMOVED FOLLOWING STORM EVENTS FOR REMOVAL OF SEDIMENT AND THEN REPLACED, NUISANCE WATER TO BE DRAINED EACH WORKING DAY.
 - BACK OF INLET MAY REQUIRE PROTECTION IF SUBJECT TO CROSS-SIDEWALK FLOWS.

CONCRETE TRUCK WASHOUT PIT PROFILE



- NOTES:
- PIT TO BE MAINTAINED AND UTILIZED UNTIL ALL CONCRETE WORK IS COMPLETED, INCLUDING ALL FOUNDATION AND FLATWORK. RELOCATED PITS SHALL MEET THIS STANDARD.
 - PIT TO BE PERMANENTLY SIGNED TO ALERT DRIVERS OF ITS LOCATION
 - SET CONCRETE TO BE BROKEN UP AND DISPOSED OF PROPERLY OFF SITE PER LOCAL, STATE, AND FEDERAL LAWS.
 - WASHOUT PITS THAT ARE SEPARATED FROM A PAVED SURFACE MAY REQUIRE A VTC PAD TO PROTECT STREETS FROM TRACKING OF DIRT.

*SIGN: 2' Tall x 3' Wide on 4' Tall Post, 6"x2" Lettering

EROSION CONTROL STRUCTURES

DETAIL 12-2

DATE: MARCH 2007

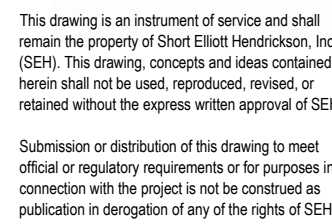
SCALE: N.T.S.



Electrical Engineer
CMO Consulting Engineer
11646 Sun Bear Trail
Golden, Colorado 80403
303.875.4037

City Of Greeley

10603 20th St. Greelev. Colorado 80634



150267
T. NUETZEL
J. JONES

Issue Date
09/13/2019

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Rev. #	Description	Date

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702



ASPHALT: HOT MIX ASPHALT SECTION SHALL CONSIST OF A 2 TO 3 INCH LOWER LIFT OF GRADING S (75) (PG 64-22) OVER A 1.5 TO 2.5 INCH THICK SURFACE LIFT OF SX (75) (PG 64-22) WITH A TACK COAT BETWEEN LIFTS.

CONCRETE: CDOT CLASS P CONCRETE.

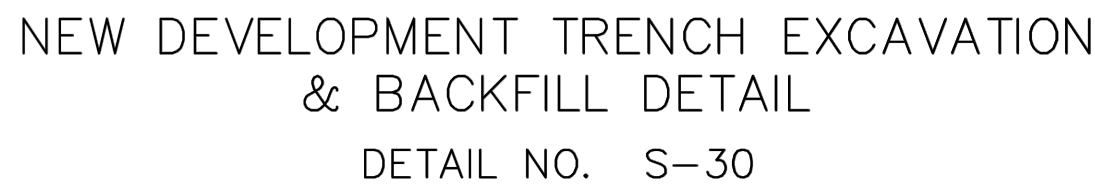
ABC: AGGREGATE BASE MATERIAL SHOULD MEET THE CRITERIA OF CDOT CLASS 3 OR 6 AGGREGATE BASE COURSE. BASE COURSE SHOULD BE PLACED IN UNIFORM LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS AND COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY AND UNIFORM MOISTURE CONTENTS WITHIN 2 PERCENT OF THE OPTIMUM AS DETERMINED BY ASTM D1557/AASHTO T-180, THE "MODIFIED PROCTOR"

COMPACTED SUBGRADE: THE PAVEMENT SUBGRADE SHOULD BE EXCAVATED AND/OR SCARIFIED TO A MINIMUM DEPTH OF 12 INCHES. MOISTURE-CONDITIONED AND PROPERLY RE-COMPACTED. FILL MATERIALS SHOULD BE THOROUGHLY MIXED TO ACHIEVE A UNIFORM MOISTURE CONTENT. PLACED IN UNIFORM LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS, AND PROPERLY COMPACTED. SOILS THAT CLASSIFY AS GP, GW, GM, GC, SP, SW, SM, OR SC IN ACCORDANCE WITH THE USCS CLASSIFICATION SYSTEM (GRANULAR MATERIALS) SHOULD BE COMPACTED TO 95 OR MORE PERCENT OF THE MAXIMUM MODIFIED PROCTOR DRY DENSITY AT MOISTURE CONTENTS WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D1557. SOILS THAT CLASSIFY AS ML, MH, CL, OR CH SHOULD BE COMPACTED TO 95 PERCENT OF THE MAXIMUM STANDARD PROCTOR DRY DENSITY AT MOISTURE CONTENTS WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.

PAVEMENT SECTION IS PER RECOMMENDATIONS BY "GEOTECHNICAL SUBSURFACE EXPLORATION PROGRAM" DATED MARCH 6, 2019 BY GROUND ENGINEERING.



1. RIGHT-OF-WAY AND EASEMENT AREAS SHALL BE GRADED (CUT AND FILL) TO SUBGRADE (+/-0.5') PRIOR TO AND AFTER UTILITY INSTALLATION.
2. BACKFILL WITHIN PUBLIC RIGHT-OF-WAY AND IN EASEMENTS WITHIN 20 FEET OF RIGHT-OF-WAY SHALL BE COMPACTED TO 95% WITHIN +/- 2% OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY AASHTO T99 DENSITY. TRENCHES IN EASEMENTS BEYOND 20 FEET OF RIGHT-OF-WAY SHALL BE COMPACTED TO 90%. ALL TRENCHES SHALL BE COMPACTED BY A METHOD APPROVED BY THE CITY.
3. TRENCH EXCAVATION SHALL COMPLY TO ALL OSHA STANDARDS.
4. FILTER FABRIC IS REQUIRED IF STABILIZATION MATERIAL IS USED. THE FABRIC SHALL BE INSTALLED AS SHOWN IN THE DETAIL.
5. IF NOT SPECIFIED BY APPLICABLE UTILITY, AN APPROVED GRADE OF SAND BEDDING SHALL BE INSTALLED TO SPRINGLINE.

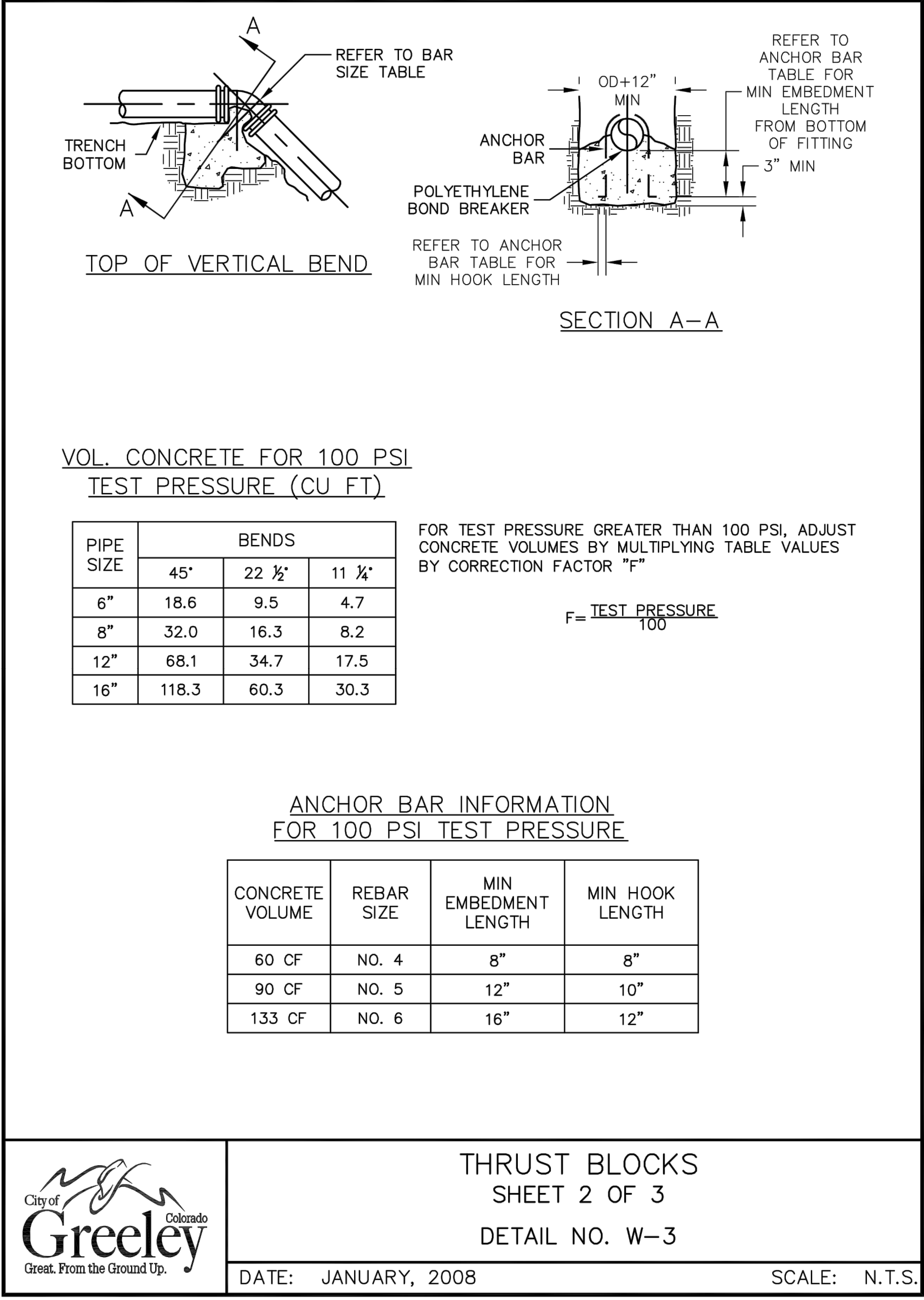
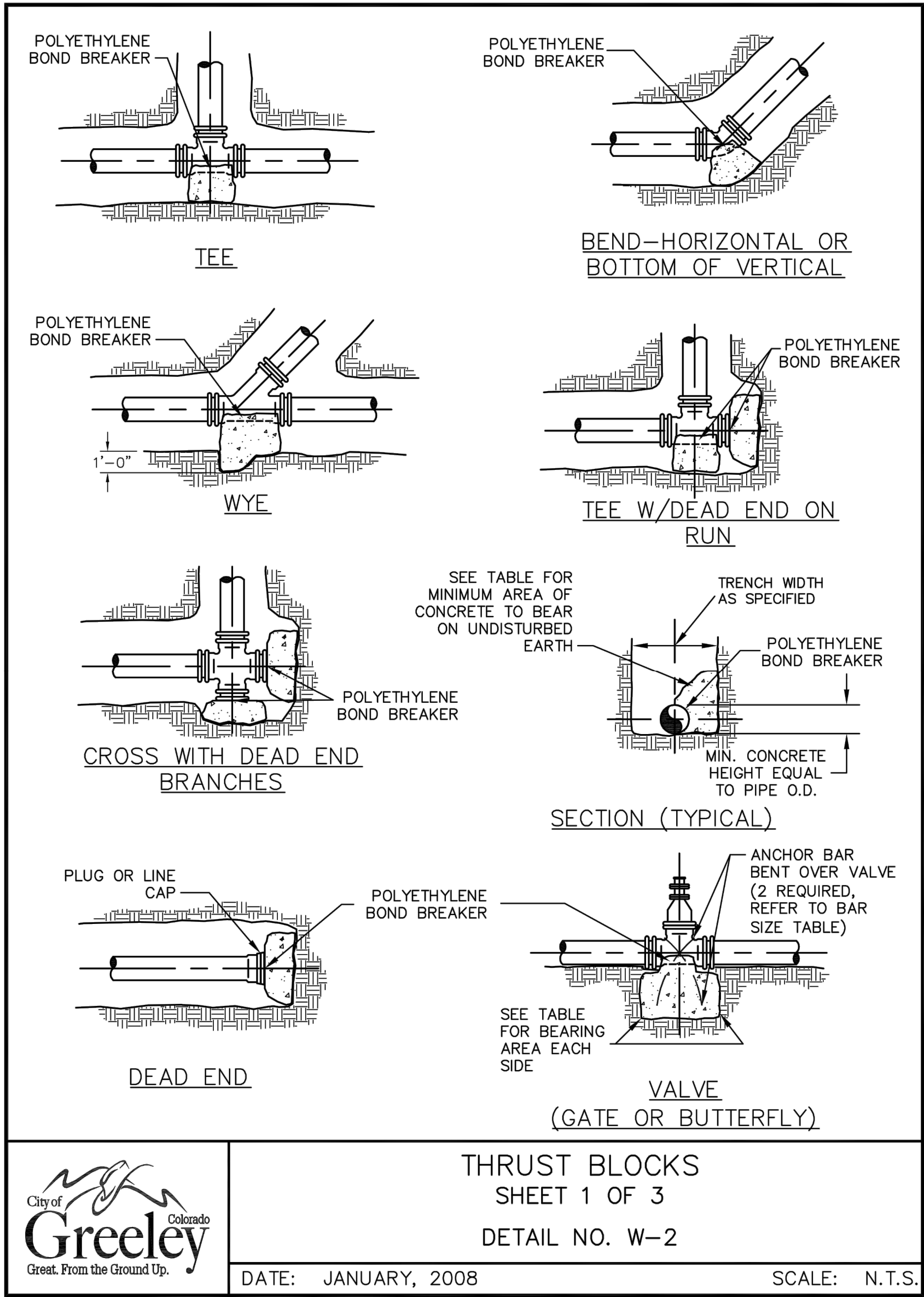


DATE: JULY, 2015

SCALE: N.T.S.

Page 174

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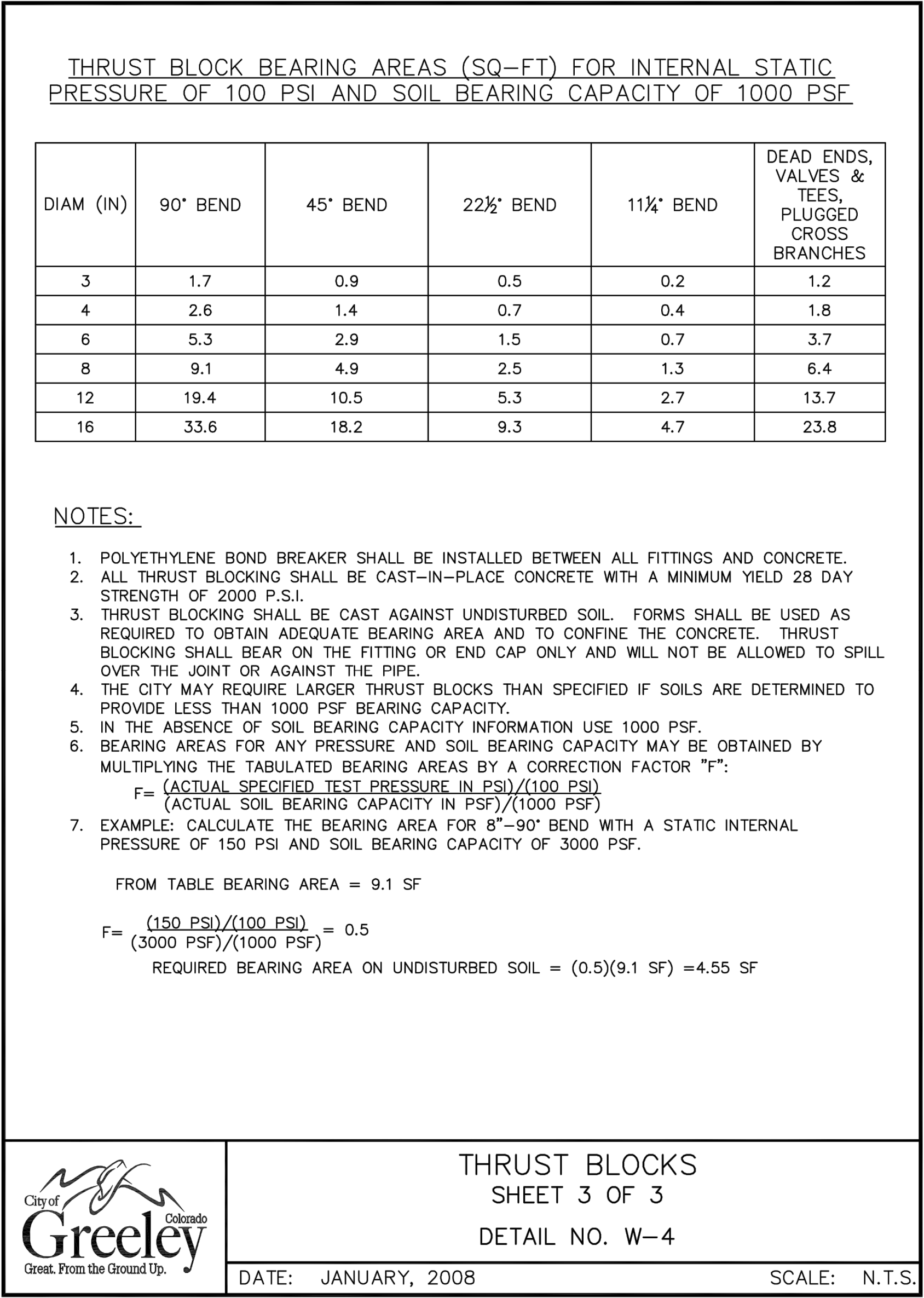


City of Greeley Colorado
Great. From the Ground Up.

THRUST BLOCKS
SHEET 2 OF 3
DETAIL NO. W-3

DATE: JANUARY, 2008

SCALE: N.T.S.



City of Greeley Colorado
Great. From the Ground Up.

THRUST BLOCKS
SHEET 3 OF 3
DETAIL NO. W-4

DATE: JANUARY, 2008

SCALE: N.T.S.

Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect
DHM Design
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc.
2525 South Wadsworth Blvd, Suite 200
Lakewood, Colorado 80227
303.988.4514

Electrical Engineer
CMO Consulting Engineer
11646 Sun Bear Trail
Golden, Colorado 80403
303.875.4037

City of Greeley
10803 20th St, Greeley, Colorado 80634
GREELEY FIRE STATION #6

City of Greeley

City of Greeley Colorado
Great. From the Ground Up.

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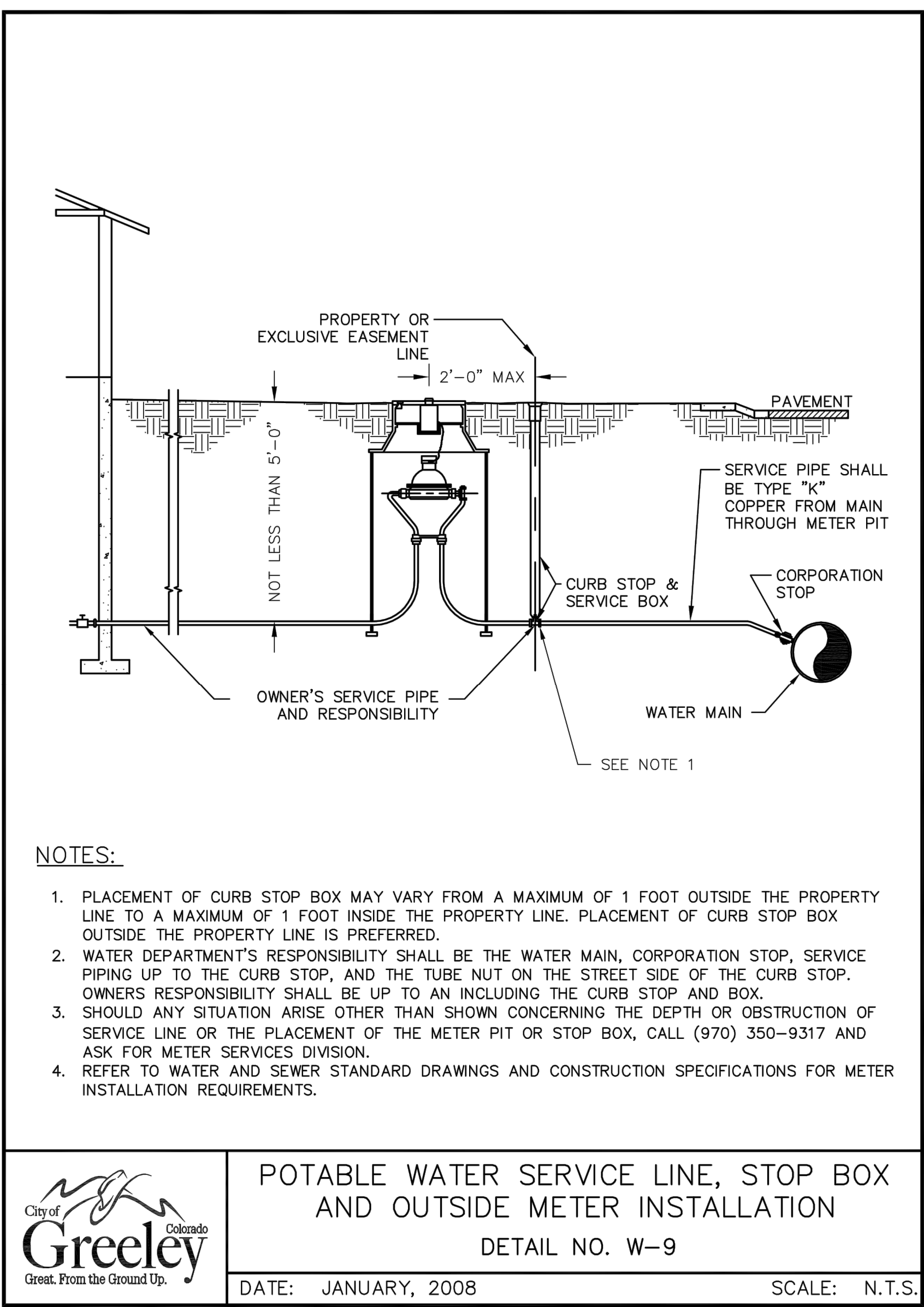
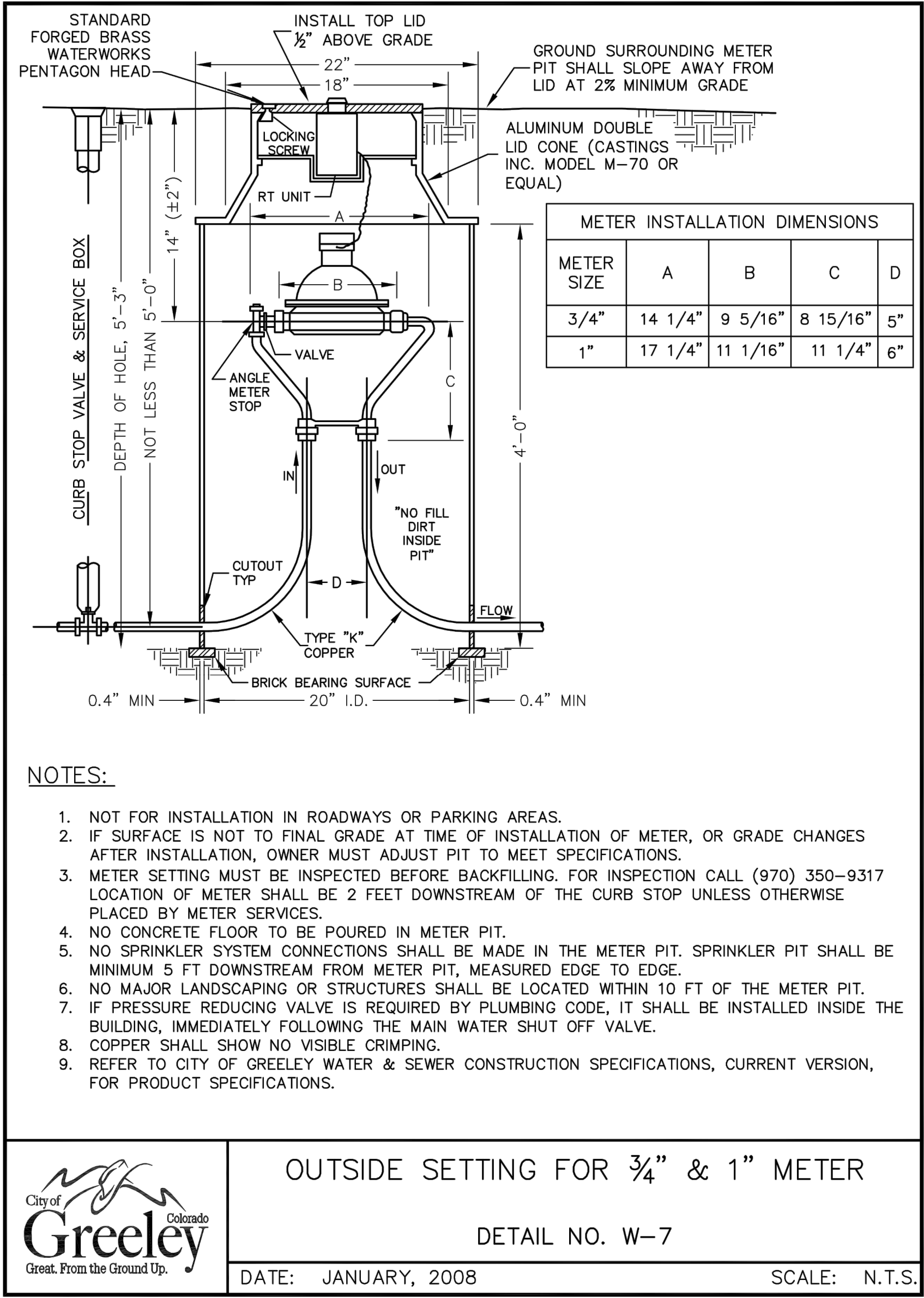
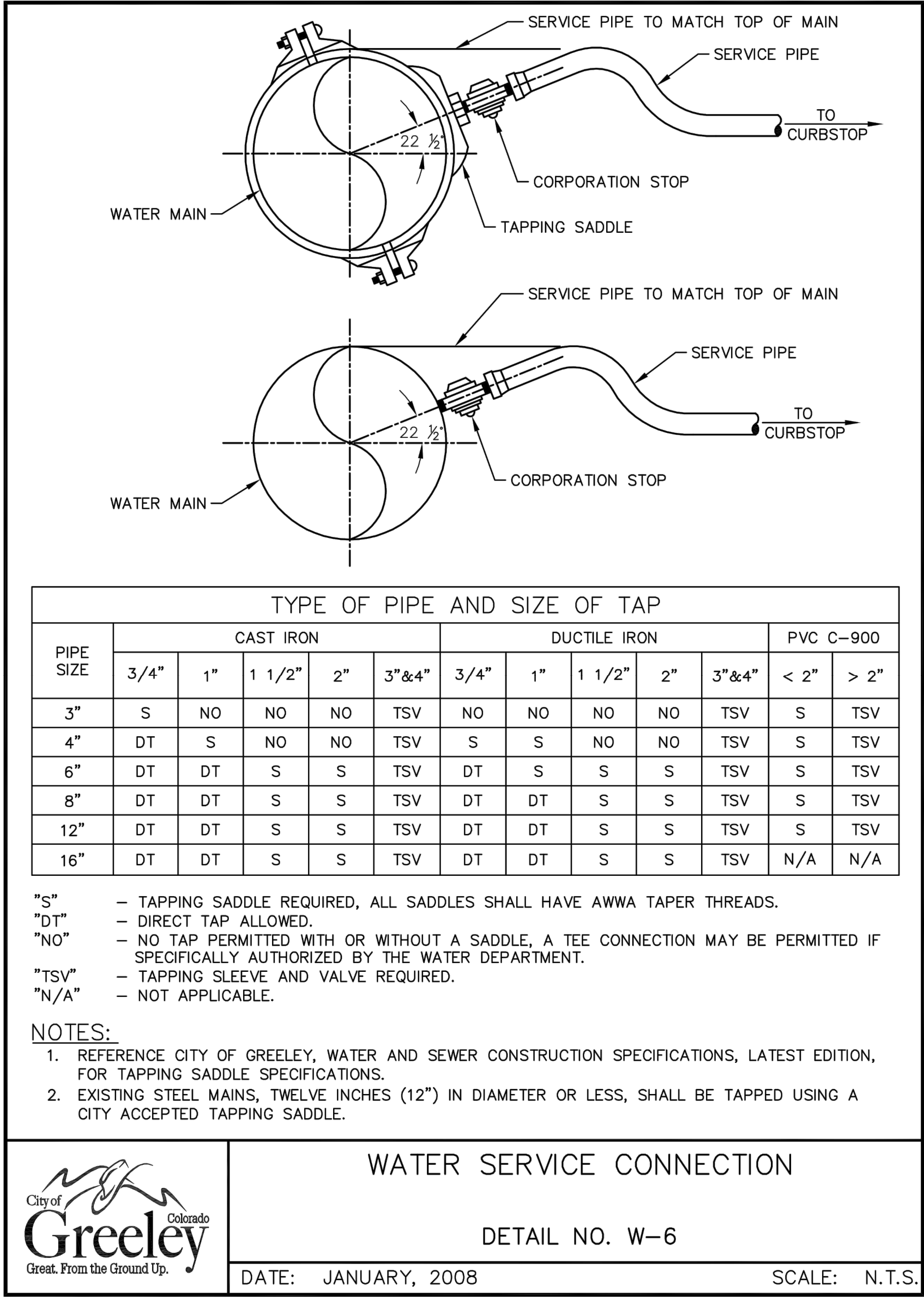
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Revision Issue

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Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect
DHM Design
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc.
2525 South Wadsworth Blvd, Suite 200
Lakewood, Colorado 80227
303.988.4514

Electrical Engineer
CMO Consulting Engineer
11646 Sun Bear Trail
Golden, Colorado 80403
303.875.4037

City of Greeley
Greeley Fire Station #6
10603 20th St, Greeley, Colorado 80634

City of Greeley
Greeley

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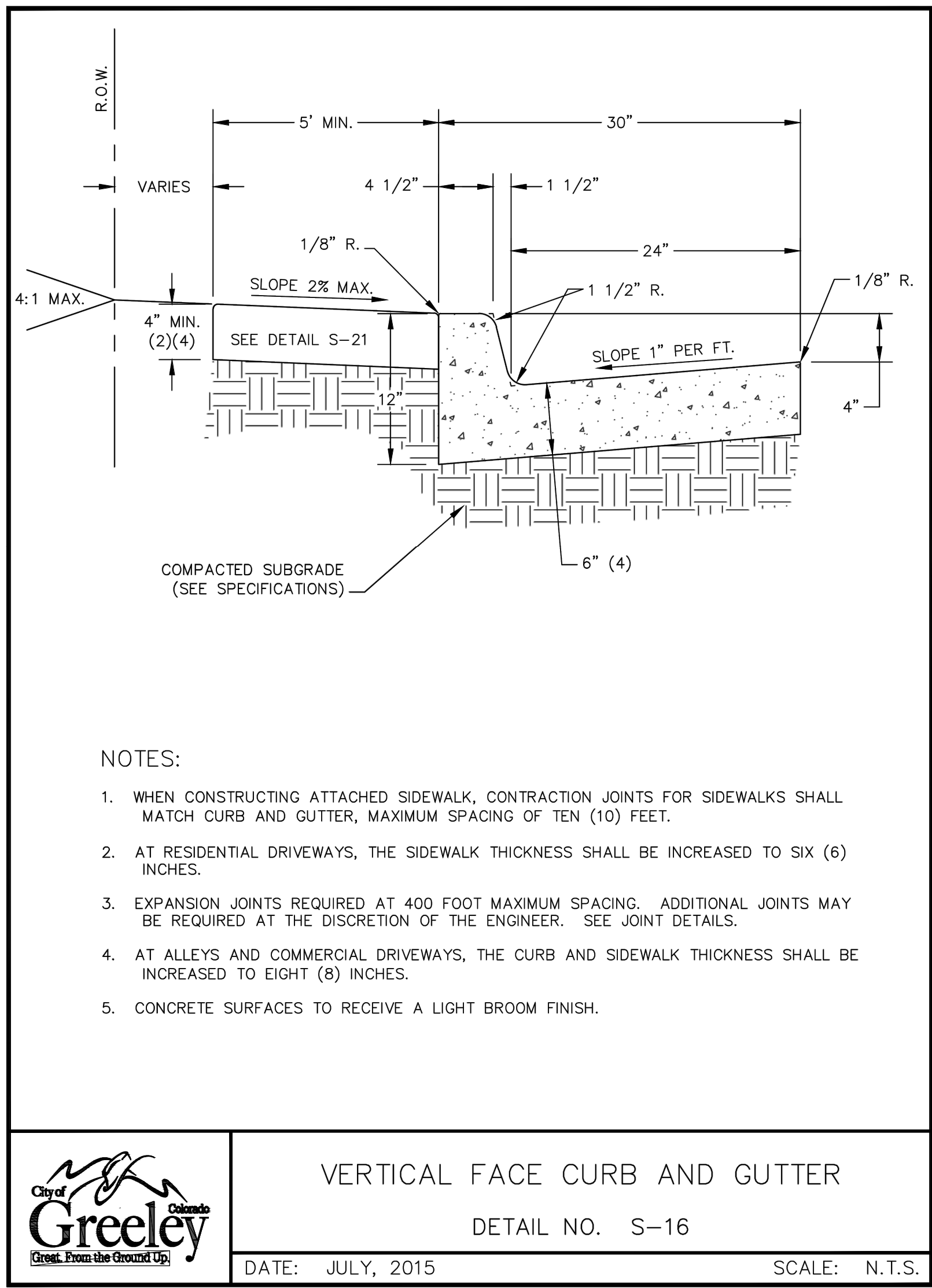
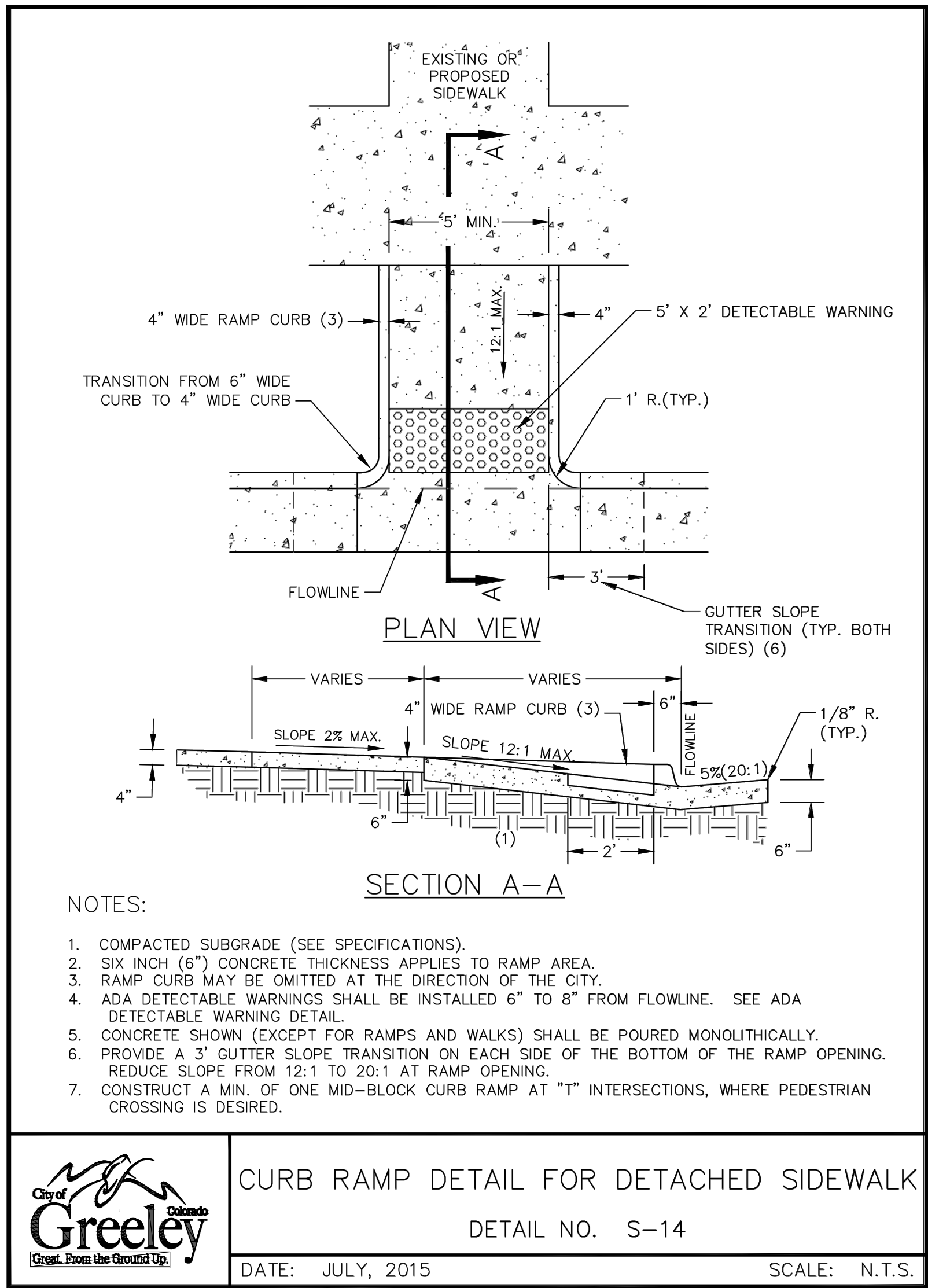
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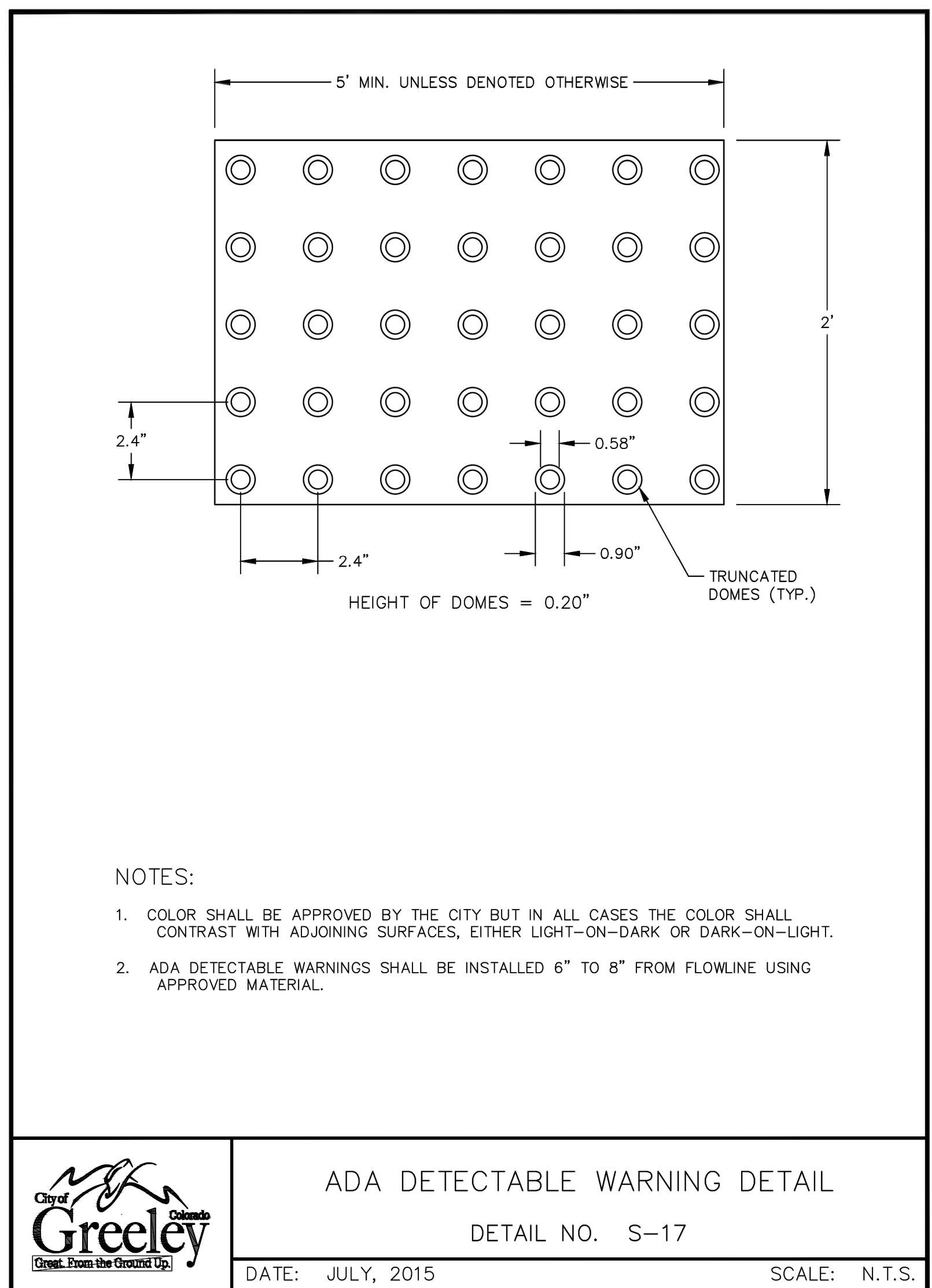
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NOTE: VERTICAL FACE CURB AND GUTTER (SPILL) TO BE SIMILAR DIMENSION WITH 1" PER FT. SLOPE AWAY FROM CURB



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City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect
DHM Design
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc.
2525 South Wadsworth Blvd, Suite 200
Lakewood, Colorado 80227
303.988.4514

Electrical Engineer
CMO Consulting Engineer
11646 Sun Bear Trail
Golden, Colorado 80403
303.875.4037

City of Greeley
GREELEY FIRE STATION #6
10803 20th St, Greeley, Colorado 80634

City of Greeley Colorado
Greeley
Great. From the Ground Up.

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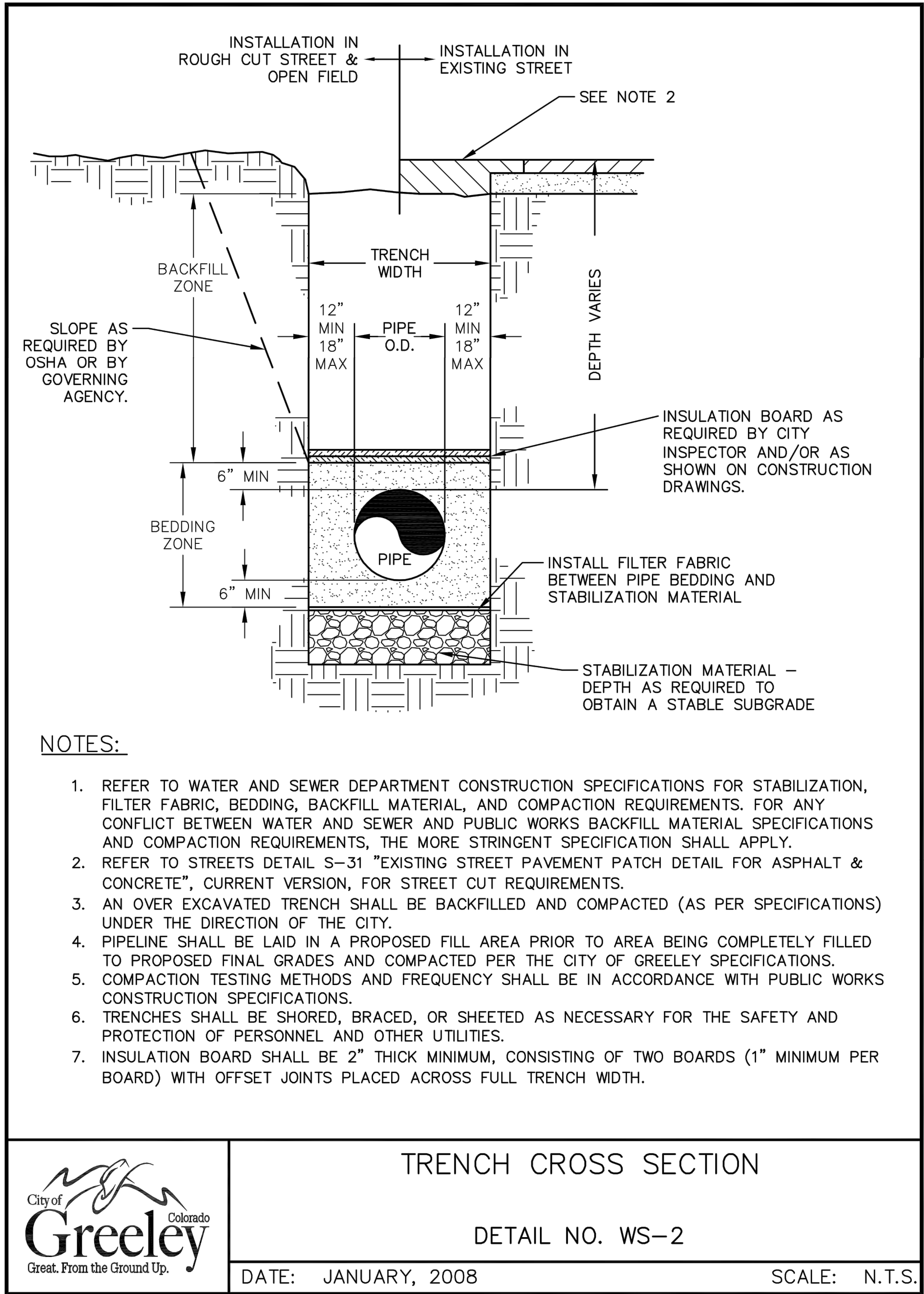
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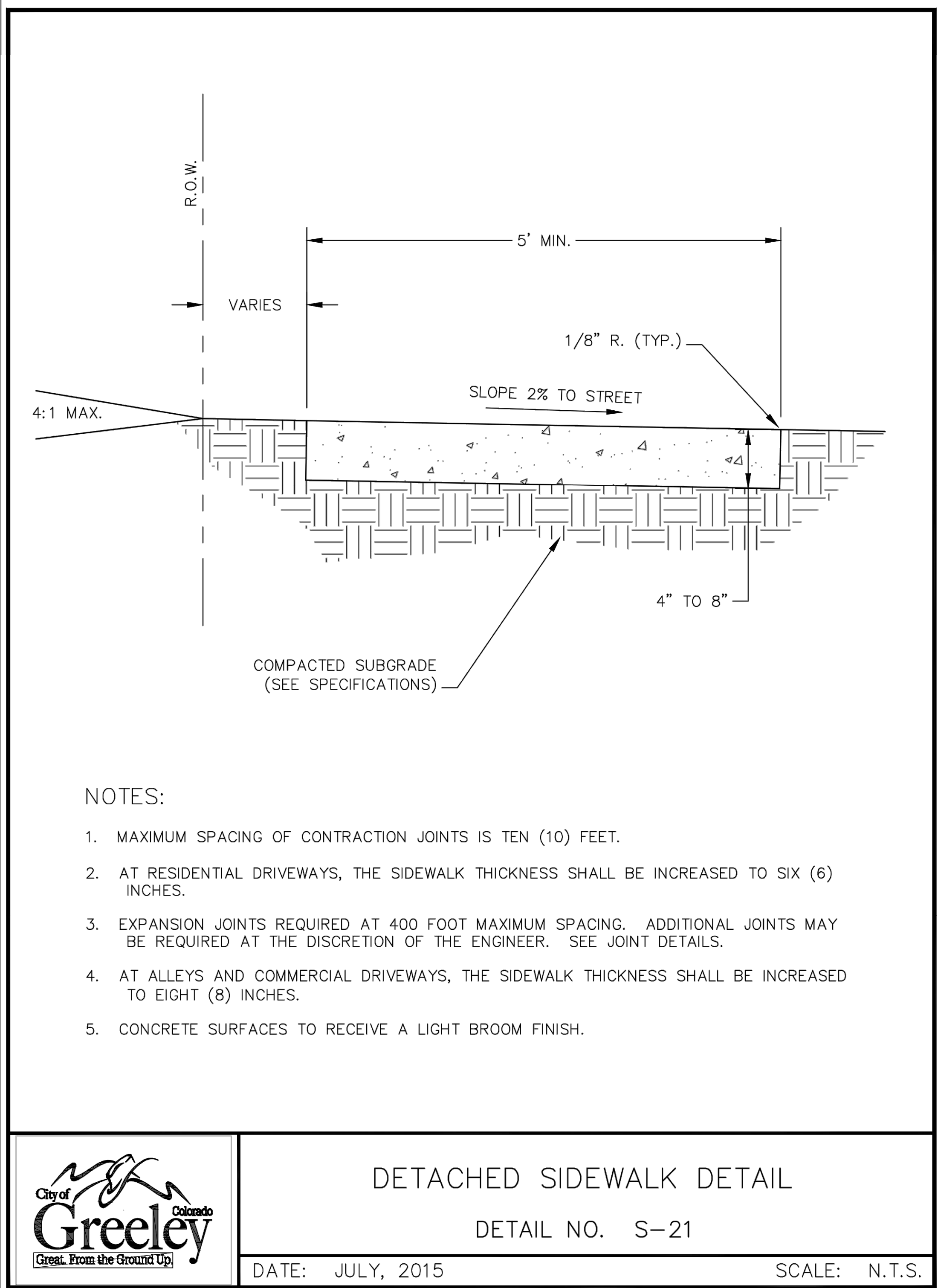
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Page 162



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Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc.
2525 South Wadsworth Blvd, Suite 200
Lakewood, Colorado 80427
303.988.4514

Electrical Engineer
CMO Consulting Engineer
11646 Sun Bear Trail
Golden, Colorado 80403
303.875.4037

City of Greeley
GREELEY FIRE STATION #6

10803 20th St, Greeley, Colorado 80634



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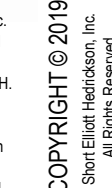
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Electrical Engineer
CMO Consulting Engineer
11646 Sun Bear Trail
Golden, Colorado 80403
303.875.4037

10603 20th St, Greeley, Colorado 80634



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GREELEY. CO

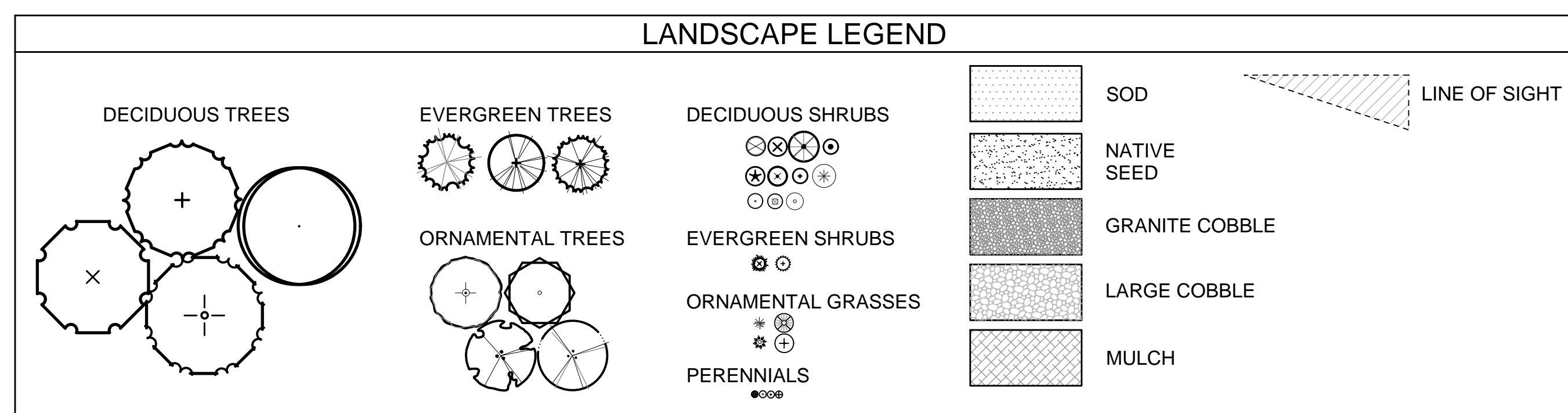
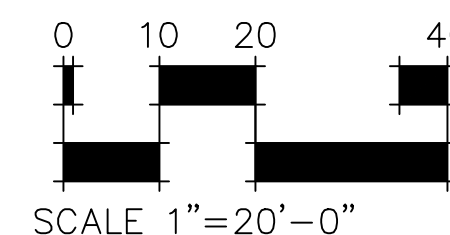
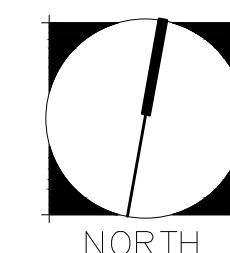
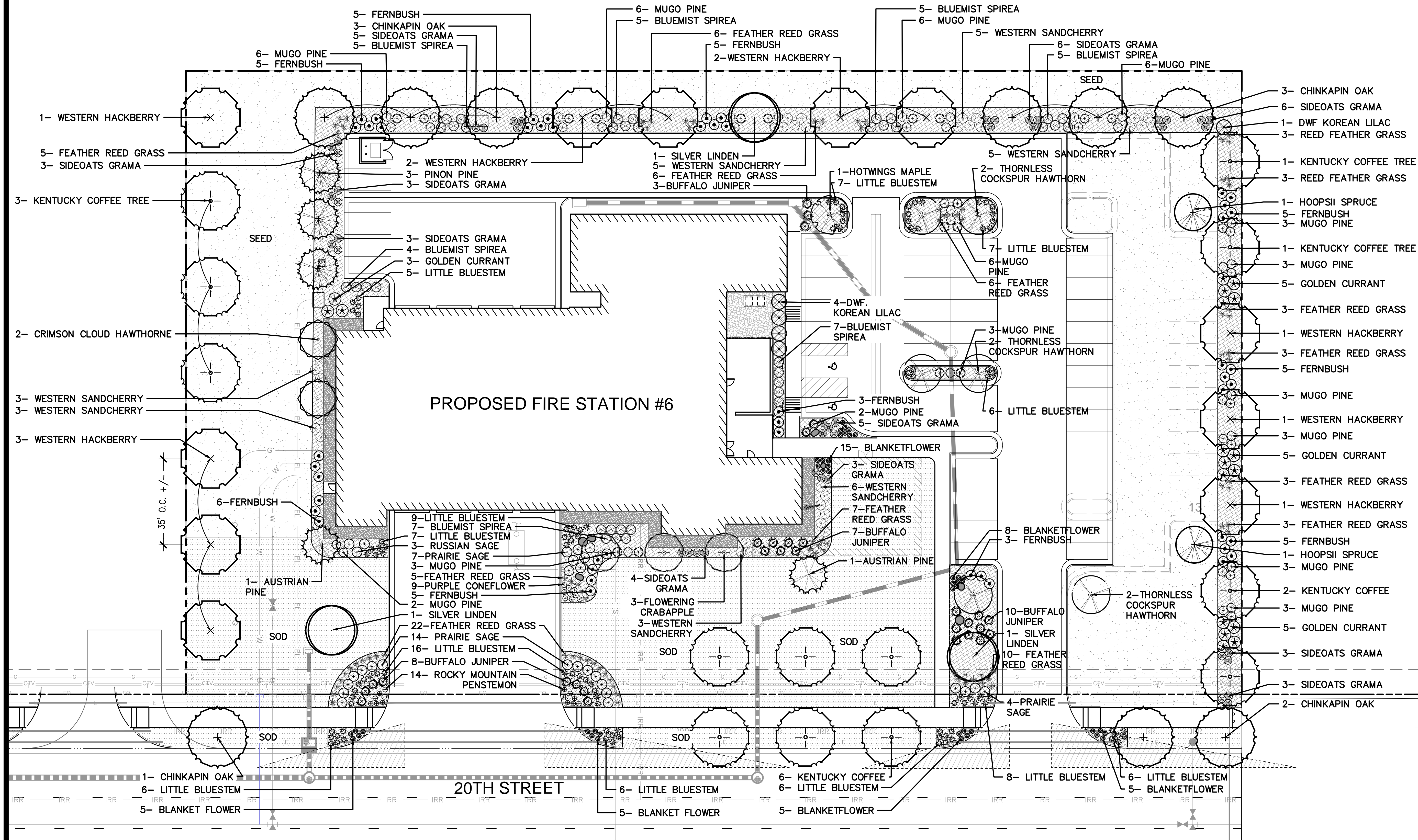
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2019-09-13

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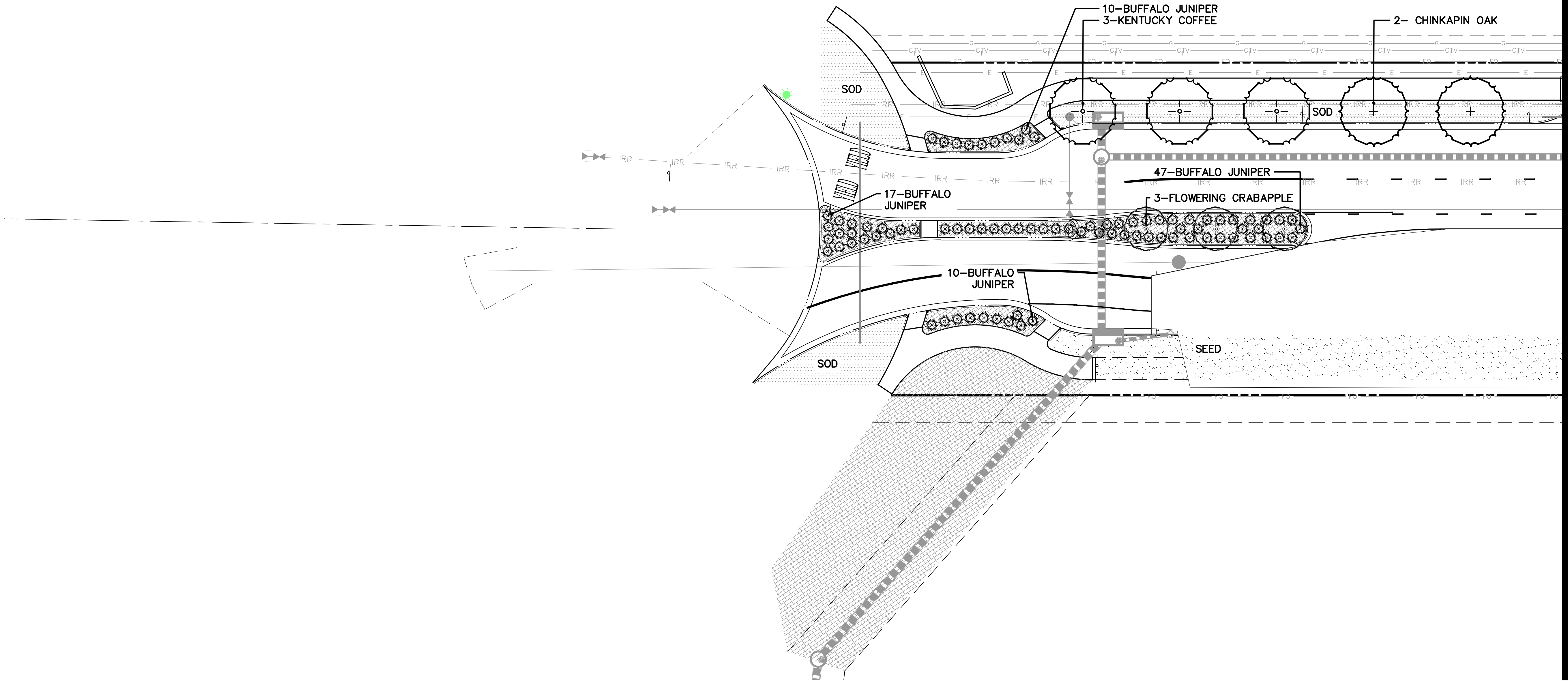
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Owner
City of Greeley
1000 10th Street Greeley
Colorado 80631
970.330.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect
DHM Design
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

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GREELEY FIRE STATION #6

GREELEY, CO

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Project Status 3

Issue Date
2019-05-31
2019-09-13

Revision Issue
Rev. # Description Date

LANDSCAPE PLAN
20TH STREET EXTENSION
70% DESIGN SET

LS-2

LANDSCAPE NOTES

1.

ALL PLANT MATERIALS SHALL MEET OR EXCEED CURRENT AMERICAN STANDARD FOR NURSERY STOCK ANSI 260.1 AND THE COLORADO NURSERY ACT AND ACCOMPANYING RULES AND REGULATIONS.
2.

THE TURF AREAS AS WELL AS SHRUB BEDS SHALL BE PREPARED WITH ORGANIC MATTER AT THE RATE OF 4 CUBIC YARDS PER 1,000 SQUARE FEET. REFER TO SPECIFICATION FOR NATIVE SEED LANDSCAPE AREA AMENDMENTS. THIS PREPARATION SHALL BE THOROUGHLY INCORPORATED INTO THE TOP 6" OF SOIL.
3.

ALL SHRUB BED LOCATIONS ARE TO BE STAKED OUT ON THE SITE FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. PROVIDE SHRUB BED LAYOUT BASED UPON THIS LANDSCAPE PLAN AND NOT THE IRRIGATION PLAN. TREE LOCATION TO BE NO CLOSER THAN 6' FROM ALL CURBS & WALKWAYS (EXCEPT IN TREE LAWNS).
4.

ALL PLANT MATERIAL ARE TO BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
5.

ALL SHRUB BEDS TO BE MULCHED WITH 4" DEPTH 1"-2" RIVER ROCK OVER FABRIC UNLESS OTHERWISE NOTED. SUBMIT SAMPLE FOR APPROVAL.
6.

ALL VEGETATION WITHIN THE R.O.W., OTHER THAN STREET TREES, ARE NOT TO EXCEED 30" IN HEIGHT. VEGETATION MUST BE PLACED A MINIMUM OF 24" FROM FACE OF CURB.
7.

NO SUBSTANTIAL CHANGE FROM THE APPROVED LANDSCAPE PLAN MAY OCCUR WITHOUT PRIOR REVIEW & APPROVAL BY THE OWNER'S REPRESENTATIVE AND THE CITY PLANNING DEPARTMENT, WHICH MAY REQUIRE ADDITIONAL IRRIGATION TAPS FOR CHANGES DUE TO MORE WATER INTENSIVE LANDSCAPING.
8.

ALL TREES IN SEEDED OR SODDED AREAS WILL HAVE A MULCH RING WITH METRO BROWN MULCH AT A 3"-4" DEPTH AND AT LEAST 3'-4' DIAMETER. NO MULCH WILL BE PLACED AGAINST THE TRUNK OF THE TREE.
9.

ANY TREE SUBSTITUTIONS MUST BE APPROVED BY OWNER'S REPRESENTATIVE AND THE CITY PLANNING DEPARTMENT PRIOR TO DELIVERY AND INSTALLATION.
10.

ALL UTILITY CORRIDOR SHALL REMAIN UNOBSTRUCTED AND FULLY ACCESSIBLE ALONG THEIR ENTIRE LENGTH FOR MAINTENANCE EQUIPMENT ENTRY.
11.

THE DEVELOPER, HIS SUCCESSORS AND ASSIGNS, SHALL BE RESPONSIBLE FOR INSTALLATION, MAINTENANCE AND REPLACEMENT OF ALL LANDSCAPING MATERIALS SHOWN OR INDICATED ON THE APPROVED SITE PLAN OR LANDSCAPE PLAN ON FILE IN THE PLANNING DEPARTMENT. ALL LANDSCAPING WILL BE INSTALLED AS DELINEATED ON THE PLAN, PRIOR TO ISSUANCE OF CERTIFICATES OF OCCUPANCY.
12.

ALL FIRE HYDRANTS SHALL BE LOCATED NOT LESS THAN THREE FEET-SIX INCHES (3'-6") AND NOT MORE THAN EIGHT (8') FEET FROM THE BACK OF CURB TO THE CENTER OF THE HYDRANT AND SHALL BE UNOBSTRUCTED ON THE STREET SIDE. MINIMUM CLEARANCE ON ALL OTHER SIDES SHALL BE FIVE FEET (5'-0").
13.

PARKING LOT TO BE ILLUMINATED BY FREE STANDING LIGHTS. RE: CIVIL PLANS FOR LIGHT TYPE AND LOCATIONS.
14.

ALL WALKS AND PLAZAS TO BE EITHER STANDARD GREY CONCRETE OR PAVERS. ALL PARKING AND DRIVE AREAS TO BE STANDARD GREY CONCRETE. RE: CIVIL PLANS FOR CONCRETE DETAILING.
15.

ALL SOD AREAS SHALL BE BORDERED BY EITHER CONCRETE WALKS, CONCRETE CURB, OR STEEL EDGER.
16.

THE LANDSCAPE PLAN MUST REFLECT THE LOCATION OF ALL FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS TO ENSURE THAT THESE DEVICES ARE NOT PHYSICALLY OR VISUALLY OBSTRUCTED FROM RESPONDING FIRE CREWS. THE SEPARATION REQUIREMENTS FROM FIRE DEPARTMENT CONNECTIONS AND FIRE HYDRANTS MUST MEET BOTH LIFE SAFETY (TYPICALLY 5 FEET AND NO MATERIAL GREATER THAN 2 FEET IN HEIGHT) AND LANDSCAPING REQUIREMENTS. LANDSCAPING MATERIAL CANNOT BE OMITTED OR REDUCED BASED ON THE INSTALLATION OF A FIRE HYDRANT WITHIN A PARKING LOT ISLAND OR PLANT BED. IT IS RECOMMENDED THAT THE ISLAND OR PLANT BED BE CONSTRUCTED LARGE ENOUGH TO ADEQUATELY ACCOMMODATE BOTH LANDSCAPING MATERIAL AND FIRE HYDRANTS IN ORDER TO COMPLY WITH ALL CITY STANDARDS.
17.

NO PLANT MATERIAL WITH MATURE GROWTH GREATER THAN THREE (3) FEET IN HEIGHT SHALL BE PLANTED WITHIN POTABLE WATER, SANITARY SEWER, OR NON-POTABLE IRRIGATION EASEMENTS.
18.

NO SHRUBS SHALL BE PLANTED WITHIN FIVE (5) FEET OR TREES WITHIN TEN (10) FEET OF POTABLE AND NON-POTABLE WATER METERS, FIRE HYDRANTS, SANITARY SEWER MANHOLES, OR POTABLE WATER, SANITARY SEWER, AND NON-POTABLE IRRIGATION MAINS AND SERVICES.
19.

AUTOMATIC IRRIGATION SYSTEM SHALL BE EQUIPPED WITH AN AUTOMATIC RAIN DETECTION DEVICE.
20.

ALL TREES TO BE REMOVED SHALL BE COMPLETED BY A GREELEY LICENSED ARBORISTS. ALL TREES TO BE REMOVED SHALL BE REMOVED COMPLETELY AND STUMPS GROUND TO BELOW FINISHED GRADE.

SEED & SOD NOTES

SOD NOTE:	SEED NOTE:										
THE BLUEGRASS SOD AREAS SHALL BE SODDED WITH EITHER REVEILLE HYBRID BLUEGRASS, OR COLORADO GROWN BANDERA HYBRID BLUEGRASS BLEND, OR APPROVED SUBSTITUTION.	NATIVE GRASS SEED TO BE A LOW GROW SEED MIX: PROVIDE THE FOLLOWING MIXTURE:										
	<table><tr><th>GRASS SEED VARIETY</th><th>LBS., P.L.S. /ACRE</th></tr><tr><td>ARIZONA FESCUE</td><td>25%</td></tr><tr><td>ROCKY MOUNTAIN FESCUE</td><td>25%</td></tr><tr><td>BIG BLUEGRASS</td><td>25%</td></tr><tr><td>SANDBERG BLUEGRASS</td><td>25%</td></tr></table>	GRASS SEED VARIETY	LBS., P.L.S. /ACRE	ARIZONA FESCUE	25%	ROCKY MOUNTAIN FESCUE	25%	BIG BLUEGRASS	25%	SANDBERG BLUEGRASS	25%
GRASS SEED VARIETY	LBS., P.L.S. /ACRE										
ARIZONA FESCUE	25%										
ROCKY MOUNTAIN FESCUE	25%										
BIG BLUEGRASS	25%										
SANDBERG BLUEGRASS	25%										
	SEEDING RATE: 5LBS PER 1,000 SQUARE FEET										

CITY OF GREELEY
DEVELOPMENT CODE

18.44.100 LANDSCAPE REQUIREMENTS FOR MULTI-FAMILY, INSTITUTIONAL, COMMERCIAL, INDUSTRIAL AND MIXED USE PROPERTIES

R.O.W LANDSCAPE

- SHADE TREES SPACED 35' O.C OR ORNAMENTAL TREES SPACED 25' O.C
- ONE ADDITIONAL SHADE TREE OR EVERGREEN TREE FOR EVERY 2,000 SF OF COMMON OPEN SPACE

18.44.110 BUFFER YARD AND SCREENING STANDARDS

- STANDARD BUFFER YARD A
- 1 SHADE TREE, 1 ORNAMENTAL TREE OR TYPE 3 SHRUB, 2 TYPE 1 SHRUBS PER 100 LF

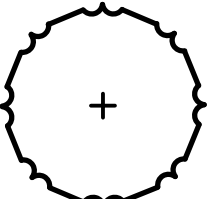
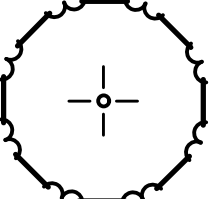
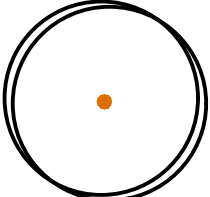
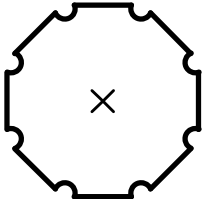



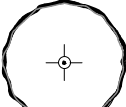


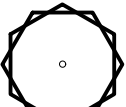














18.44.120 PARKING LOT LANDSCAPE STANDARDS

- PARKING LOT SCREENING
- o 60% OPACITY MINIMUM, YEAR ROUND; 75% OF FRONTAGE; 10' WIDE
- LANDSCAPE ISLANDS
- o NO MORE THAN 15 SPACES IN A ROW BEFORE ISLAND IS REQUIRED VARIANCE REQUIRED IF NUMBER INCREASES
- o MINIMUM 1 SHADE OR ORNAMENTAL TREE FOR PARKING ROW MINIMUM 50% COVER BY LIVE PLANTS (3' HT. MAX)
- o FOR EVERY 1,600 SF OF PARKING AREA AND ACCESS DRIVES 1 SHADE TREE (2" CALIPER) SHALL BE PROVIDED IN AND AROUND PARKING AREA

18.44.130 PERIMETER TREATMENT

- 1 SHADE TREE OR 1 ORNAMENTAL TREE, 1 EVERGREEN TREE AND 3 LARGE SHRUBS, 4 MEDIUM SHRUBS, OR 12 SMALL SHRUBS OR COMBINATION OF. PER 100 LF (NOT INCLUDING STREET TREES)

PLANT LIST

	COMMON NAME	BOTANICAL NAME	SIZE	COMMENTS
DECIDUOUS SHADE TREES				
	Chinkapin Oak	Quercus muehlenbergii	2 1/2" cal.	B&B, specimen quality
	Kentucky Coffee Tree	Gymnocladus dioicus	2 1/2" cal	B&B, specimen quality
	Silver Linden	Tilia tomentosa	2 1/2" cal.	B&B, specimen quality
	Western Hackberry	Celtis occidentalis	2 1/2" cal	B&B, specimen quality
CONIFEROUS/EVERGREEN TREES				
	Austrian Pine	Pinus nigra	6'-8' ht.	B&B, specimen quality
	Hoopsii Spruce	Picea pungens 'Hoopsii'	6'-8' ht.	B&B, specimen quality
	Pinon Pine	Pinus edulis	6'-8' ht.	B&B, specimen quality
ORNAMENTAL TREES				
	Flowering Crabapple	Malus 'Indian Summer'	2" cal.	B&B, specimen quality
	Hotwings Maple	Acer tataricum 'Garann'	2" cal.	B&B, speciment quality
	Thornless Cockspur Hawthorn	Crataegus crus-galli var. inermis	2" cal.	B&B, specimen quality
	Thunderchild Crabapple	Malus 'Thunderchild'	2 " cal.	B&B, speciment quality
DECIDUOUS SHRUBS				
	Bluemist Spirea	Caryopteris clandonensis	5 gal.	cont., 5 canes min., 18"-24" ht.
	Dwarf Korean Lilac	Syringa meyeri	5 gal.	cont., 5 canes min., 18"-24" ht.
	Fernbush	Chamaebatiaria millefolium	5 gal.	cont., 5 canes min., 12"-18" ht.
	Golden Currant	Ribes aureum	5 gal.	cont., 5 canes min., 24"-30" ht.
	Prairie Sage	Artemisia ludoviciana	5 gal.	cont., 5 canes min., 18"-24" ht.
	Western Sandcherry	Prunus besseyi	5 gal.	cont., 5 canes min., 18"-24" ht.
CONIFEROUS/EVERGREEN SHRUBS				
	Buffalo Juniper	Juniperus sabina 'Buffalo'	5 gal.	cont., 18"-24" spread
	Mugo Pine	Pinus mugo	5 gal.	cont., 18"-24" spread
ORNAMENTAL GRASSES				
	Feather Reed Grass	Calamagrostis acutiflora 'Karl Forester'	1 gal.	well established, 3' O.C.
	Little Bluestem	Schizachyrium scoparium	1 gal.	well established, 2' O.C.
	Sideoats Grama	Bouteloua curtipendula	1 gal.	well established, 3' O.C.
PERENNIALS				
	Blanket flower	Gaillardia aristata	1 gal.	
	Purple Coneflower	Echinacea pallida	1 gal.	
	Rocky Mountain Penstemon	Penstemon strictus	1 gal.	

R.O.W. LANDSCAPE (1 TREE PER 35 LF FRONTAGE)					
AREA	DESCRIPTION	LENGTH	NOTES	1 TREE/40 LF REQUIRED	TREES PROVIDED
A	20TH STREET	334'	28' DRIVE EXCLUDED 68' DRIVE EXCLUDED	10	6

BUFFER YARD & SCREENING						
AREA	DESCRIPTION	LENGTH	NOTES	WIDTH PROVIDED	TREES REQUIRED	TREES PROVIDED
A	WEST EDGE OF PROPERTY	254'	INCLUDES BOTH SHADE TREES AND ORNAMENTAL TREES	15'	3	4
B	NORTH EDGE OF PROPERTY	430'		15'	5	5
C	EAST EDGE OF PROPERTY	254'		10'	3	6

PARKING LOT LANDSCAPE STANDARDS					
AREA	DESCRIPTION	AREA	NOTES	TREES REQUIRED	TREES PROVIDED
A	ASPHALT AREA SQUARE FEET	32,130	NOT INCLUDING PROPOSED FUTURE PHASE PARKING	20	20

PERIMETER TREATMENT							
AREA	DESCRIPTION	LENGTH	NOTES	TREES REQUIRED	TREES PROVIDED	SHRUBS REQUIRED	SHRUBS PROVIDED
A	BUILDING PERIMETER LINEAR FEET	628	NOT INCLUDING PROPOSED FUTURE PHASE BUILDING	7 ORNAMENTAL TREES 7 EVERGREEN TREES	7 ORNAMENTAL TREES 7 EVERGREEN TREES	25 MEDIUM SHRUBS	25 MEDIUM SHRUBS



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Owner
City of Greeley
1000 10th Street Greeley
Colorado 80631
970.334.9777

Architect/ Civil Engineer/ Structural

Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer

The Ballant Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer

CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

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GREELEY, CO

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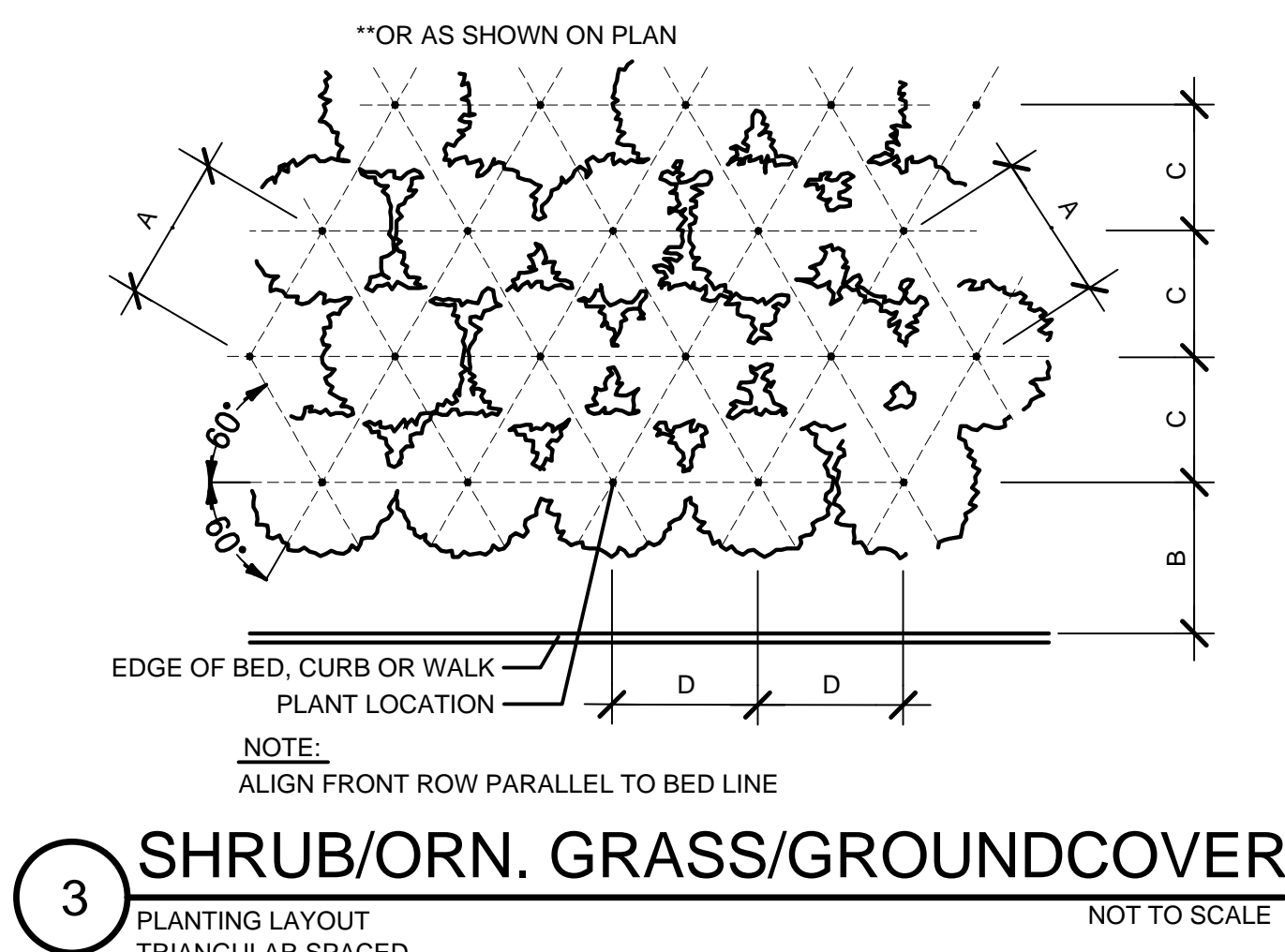
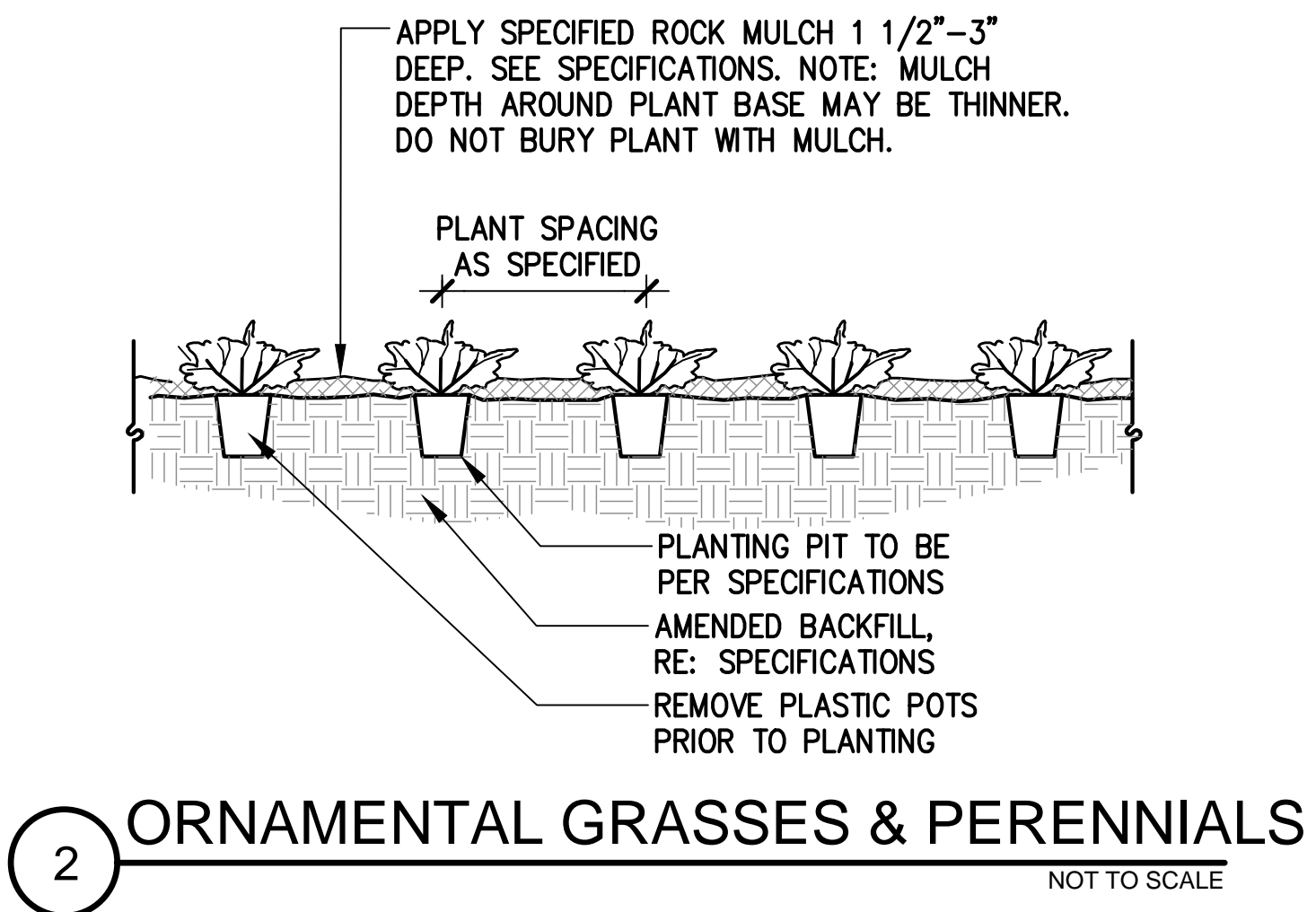
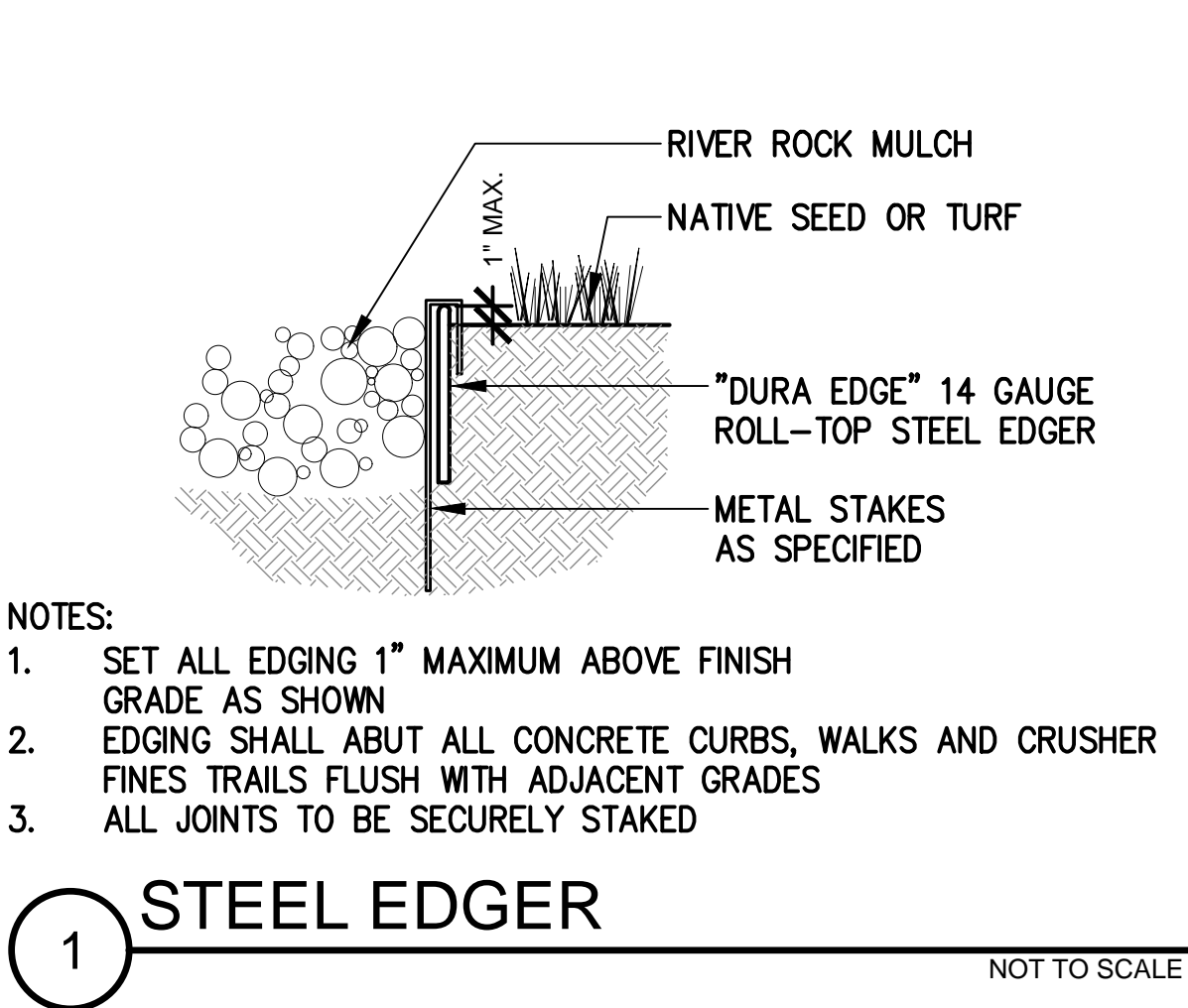
Project Status
30% DESIGN
75% DESIGN
Project Status 3

Issue Date
2019-05-31
2019-09-13

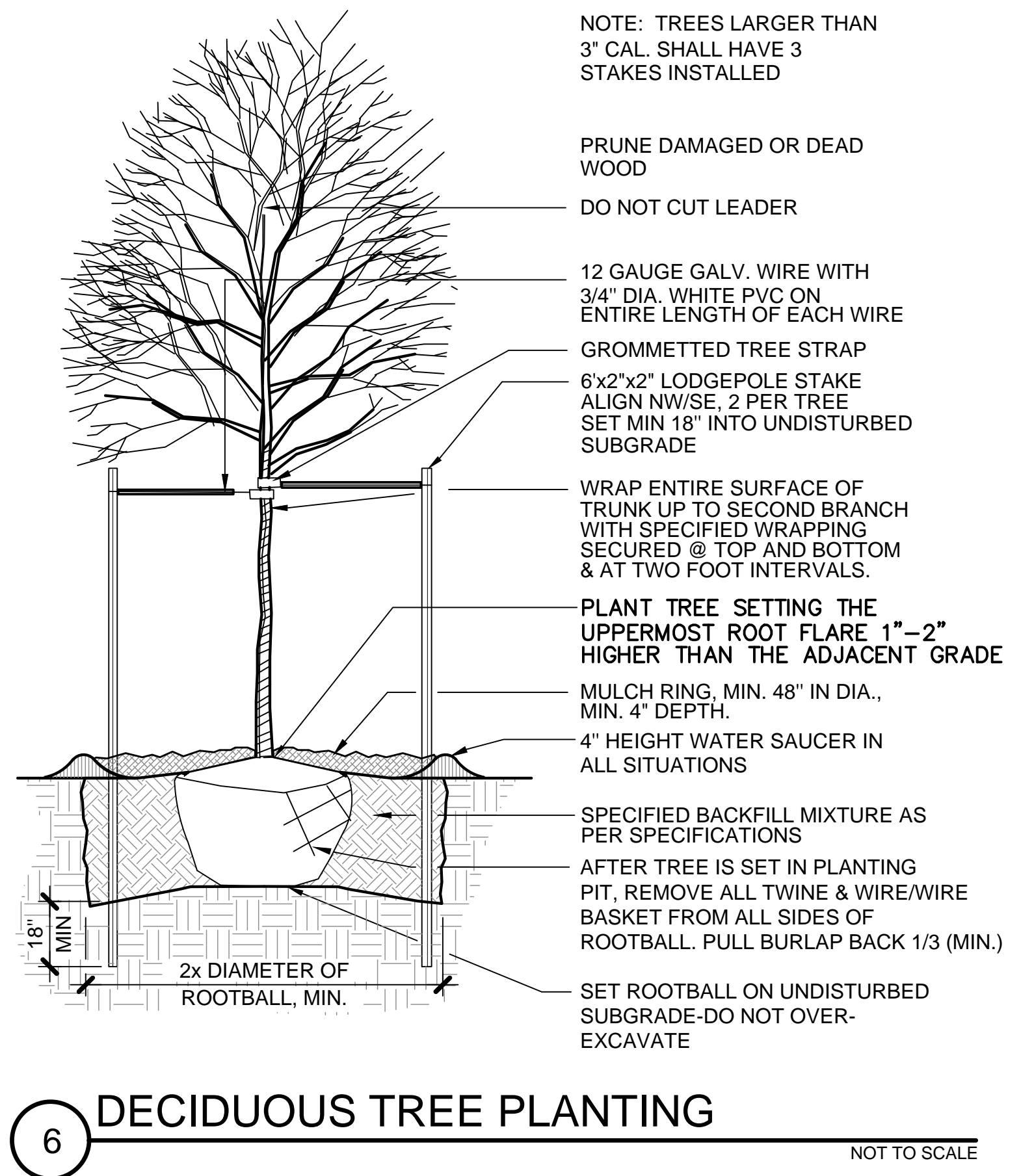
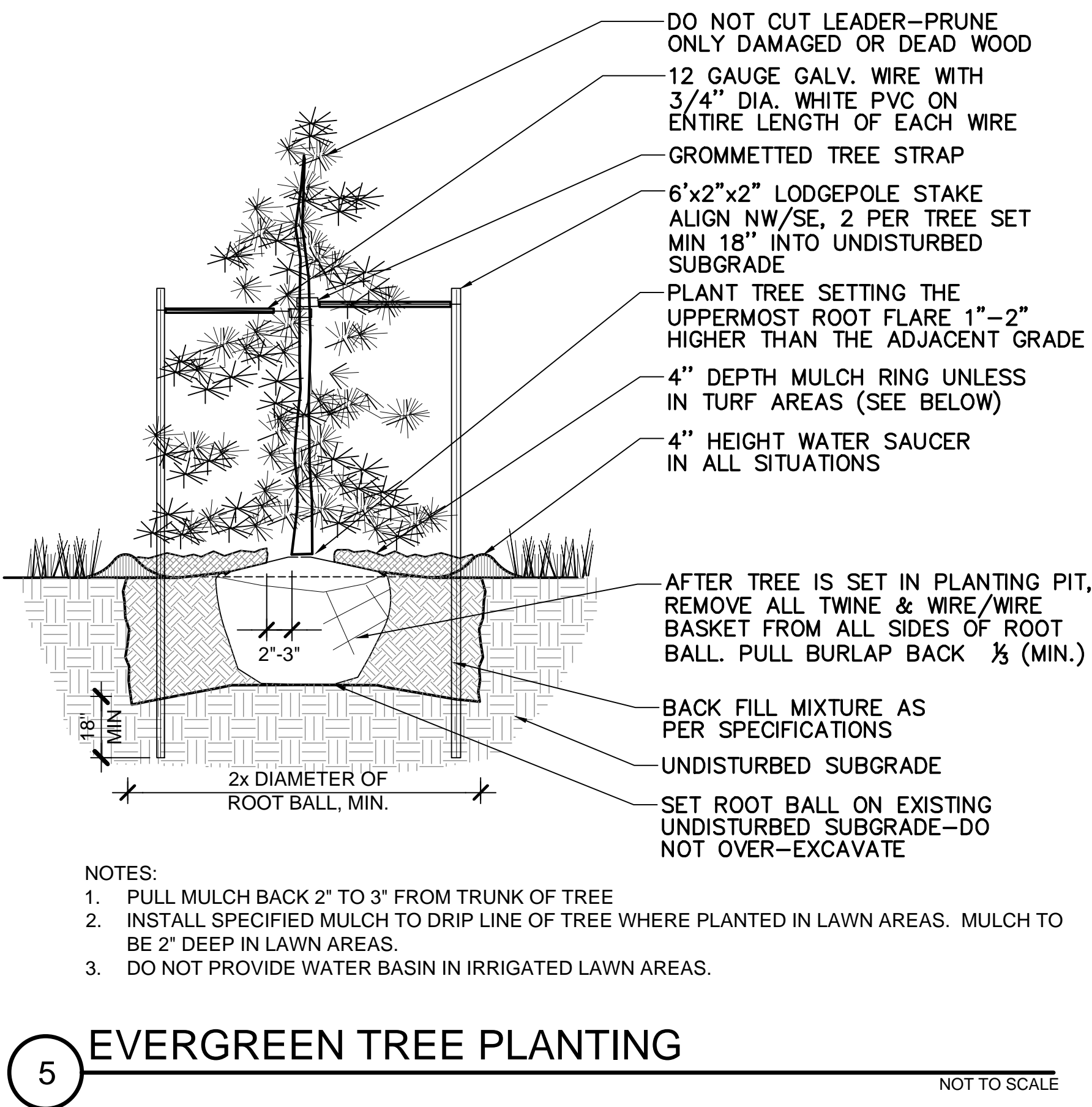
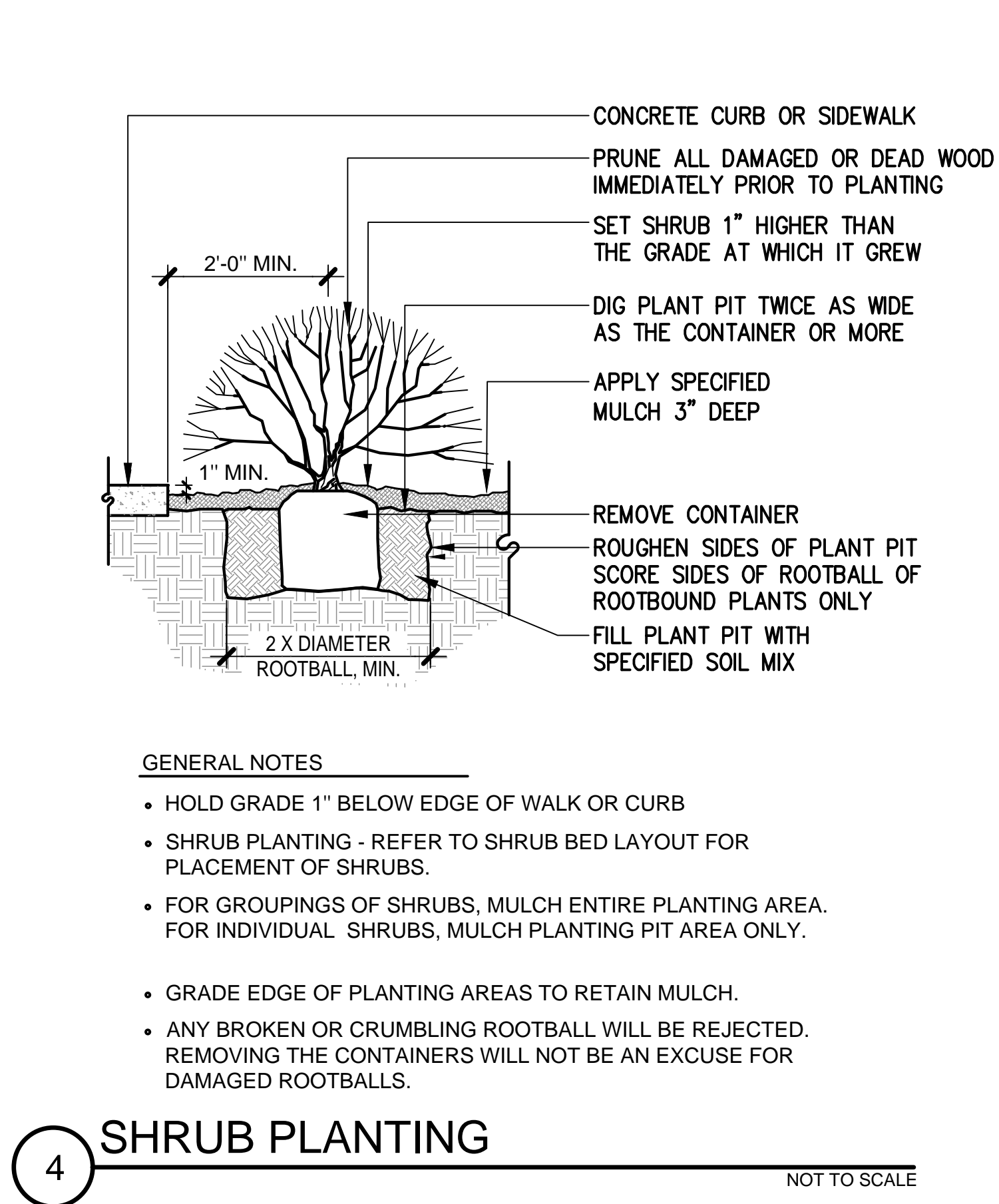
Revision Issue
Rev. # Description Date

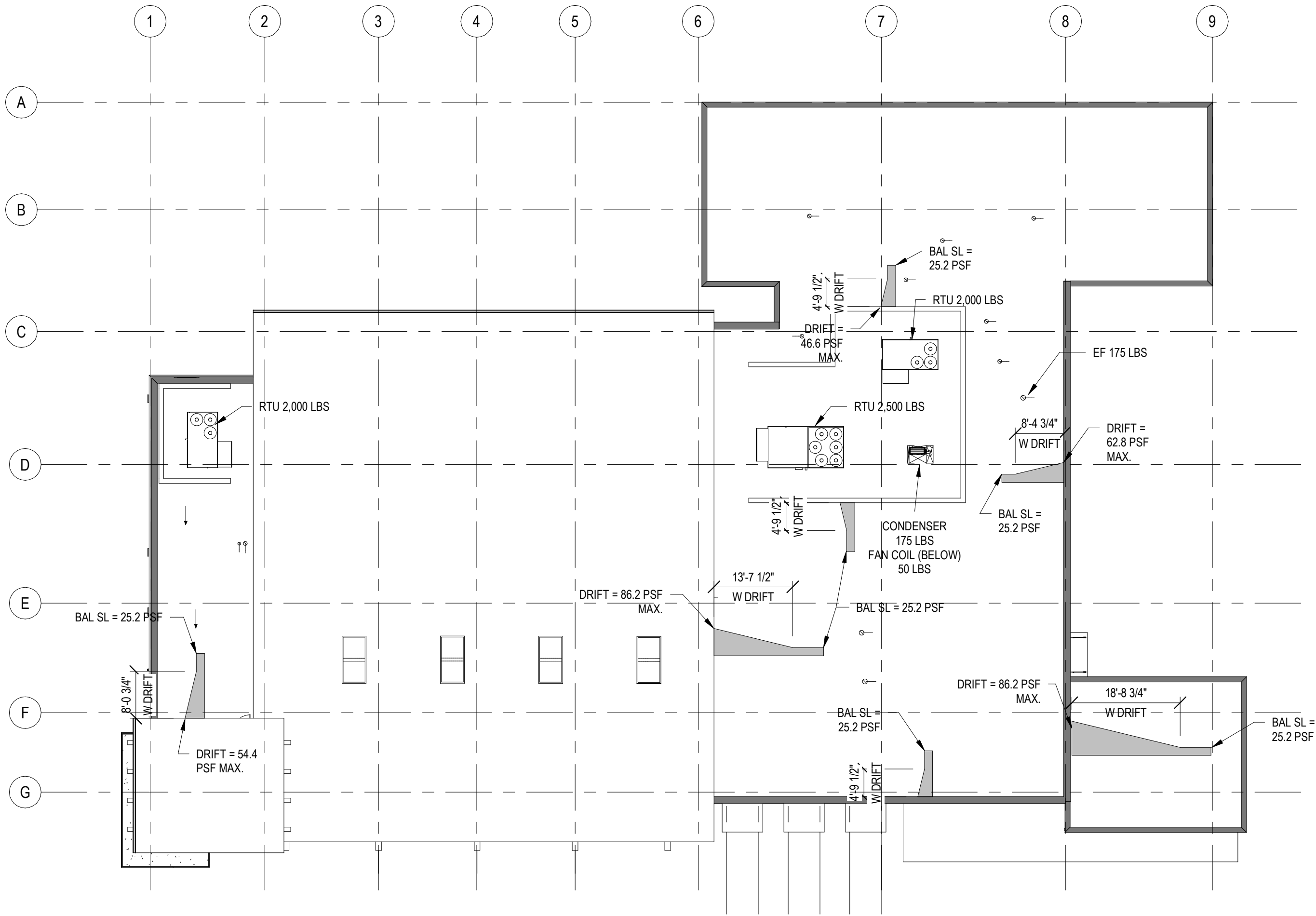
LANDSCAPE SCHEDULE & NOTES
70% DESIGN SET

LS-3



**PLANT SPACING	A	B	C	D
6"	6"	6"	5"	6"
8"	8"	6"	7"	8"
12"	12"	8"	10"	12"
18"	18"	9"	15 1/2"	18"
24"	24"	18"	21"	24"
30"	30"	15"	26"	30"
36"	36"	30"	31"	36"
48"	48"	30"	42"	48"
60"	60"	36"	52"	60"





1 SNOW LOAD DIAGRAM
NOT TO SCALE

SPECIAL INSPECTIONS

Special inspections stated in the table below shall be performed in accordance with chapter 17 of the International Building Code, as referenced and amended by the City of Greeley Building Code.

REQUIRED SPECIAL INSPECTIONS								
DESCRIPTION OF WORK IBC SECTION 1704	INSPECTION		FREQUENCY		TESTING		N/A	
	YES	NO	C*	P*	YES	NO		
METAL CONSTRUCTION								
WELDING	●			●		●		
DETAILS: BRACING, LOCATIONS, ETC.	●			●		●		
BOLTING	●			●		●		
CONCRETE CONSTRUCTION								
INSPECT REINFORCEMENT	●			●		●		
INSPECT ANCHORS CAST IN CONCRETE	●			●		●		
VERIFY USE OF REQUIRED DESIGN MIX	●			●		●		
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	●			●	●			
INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	●			●		●		
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	●			●		●		
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	●							
MASONRY CONSTRUCTION								
REINFORCEMENT: SIZE AND SPACING	●					●		
PRISMS	●				●			
DETAILS: GROUTING, LINTELS, ETC.	●				●			
DEEP FOUNDATIONS								
OBSERVE DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT							●	
VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, LENGTHS, EMBEDMENT INTO BEDROCK, AND ADEQUATE END BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.							●	
GRADING, EXCAVATION, AND FILLING								
VERIFY MATERIALS BELOW SHALLOW FOUNDATION ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	●			●		●		
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	●			●		●		
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	●			●		●		
VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	●			●		●		
PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	●			●		●		

* C = CONTINUOUS, P = PERIODIC

ABBREVIATIONS:

ADDL.	ADDITIONAL
ADH.	ADHESIVE
ADJ.	ADJUSTABLE
AL.	ALUMINUM
APPROX.	APPROXIMATELY
ARCH.	ARCHITECTURE/ARCHITECTURAL PLANS
B/O	BOTTOM OF
BLDG.	BUILDING
BOT.	BOTTOM
BRG.	BEARING
BTWN.	BETWEEN
CJ.	CONTROL JOINT
CL.	CENTERLINE
CLR.	CLEAR COVER
CMU.	CONCRETE MASONRY UNIT
CIP.	CAST IN PLACE
COL.	COLUMN
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CTR.	CENTERED
DEG.	DEGREE
DIA.	DIAMETER
DBE.	DECK BEARING ELEVATION
DWG.	DRAWING
DWL.	DOWEL
E.	EAST
EA.	EACH
EF.	EACH FACE
EL.	ELEVATION
EXT.	EXTERIOR
ENCL.	ENCLOSURE
EQ.SP.	EQUALLY SPACED
EQUIP.	EQUIPMENT
EW.	EACH WAY
EX.	EXISTING
EXP.	EXPANSION
F.F.	FRONT FACE
FFE.	FINISHED FLOOR ELEVATION
F.D.	FLOOR DRAIN
F.S.	FOOTING STEP
FND.	FOUNDATION
FRP.	FIBERGLASS-REINFORCED PLASTIC
FT.	FOOT, FEET
FTG.	FOOTING
GALV.	GALVANIZED
GND.	GROUND
H.C.	HOLLOW CORE
HGT.	HEIGHT
HORIZ.	HORIZONTAL
H.P.	HIGH POINT
I.D.	INSIDE DIAMETER
INV. EL.	INVERT ELEVATION
ISF.	INSIDE FACE
JST.	JOIST
JT.	JOINT
LB.	POUND, POUNDS
LONGIT.	LONGITUDINAL
L.P.	LOW POINT
LVL.	LEVEL
LVR.	LOUVER
MATL.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
N.	NORTH
N/A.	NOT APPLICABLE
N.T.S.	NOT TO SCALE
O.C.	ON CENTERS
O.D.	OUTSIDE DIAMETER
OPNG.	OPENING
OSF.	OUTSIDE FACE
PL.	PLATE
PSF.	POUNDS PER SQUARE FOOT
REINF.	REINFORCEMENT
REF.	REFER TO
S.	SOUTH
SER.	STRUCTURAL ENGINEER OF RECORD
SIM.	SIMILAR
SOG.	SLAB ON GRADE
SPEC.	SPECIFICATION
SQ.	SQUARE
S.S.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STRUCT.	STRUCTURAL
T&B.	TOP AND BOTTOM
T/, T.O.	TOP OF
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TDE.	TOP OF DECK ELEVATION
T.F.E.	TOP OF FOOTING ELEVATION
T.S.E.	TOP OF SLAB ELEVATION
TRANSV.	TRANSVERSE
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
VIF.	VERIFY IN FIELD
W.	WEST
WDW.	WINDOW
W/.	WITH
W/O.	WITHOUT
W.P.	WORKING POINT
WS.	WATERSTOP



Owner
City of Greeley
10th Street
Greeley, Colorado 80631
970.350.9777

Architect/Civil Engineer/Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect
DHM Design
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc.
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.588.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

City of Greeley
GREELEY FIRE STATION #6
20TH ST., GREELEY CO 80634

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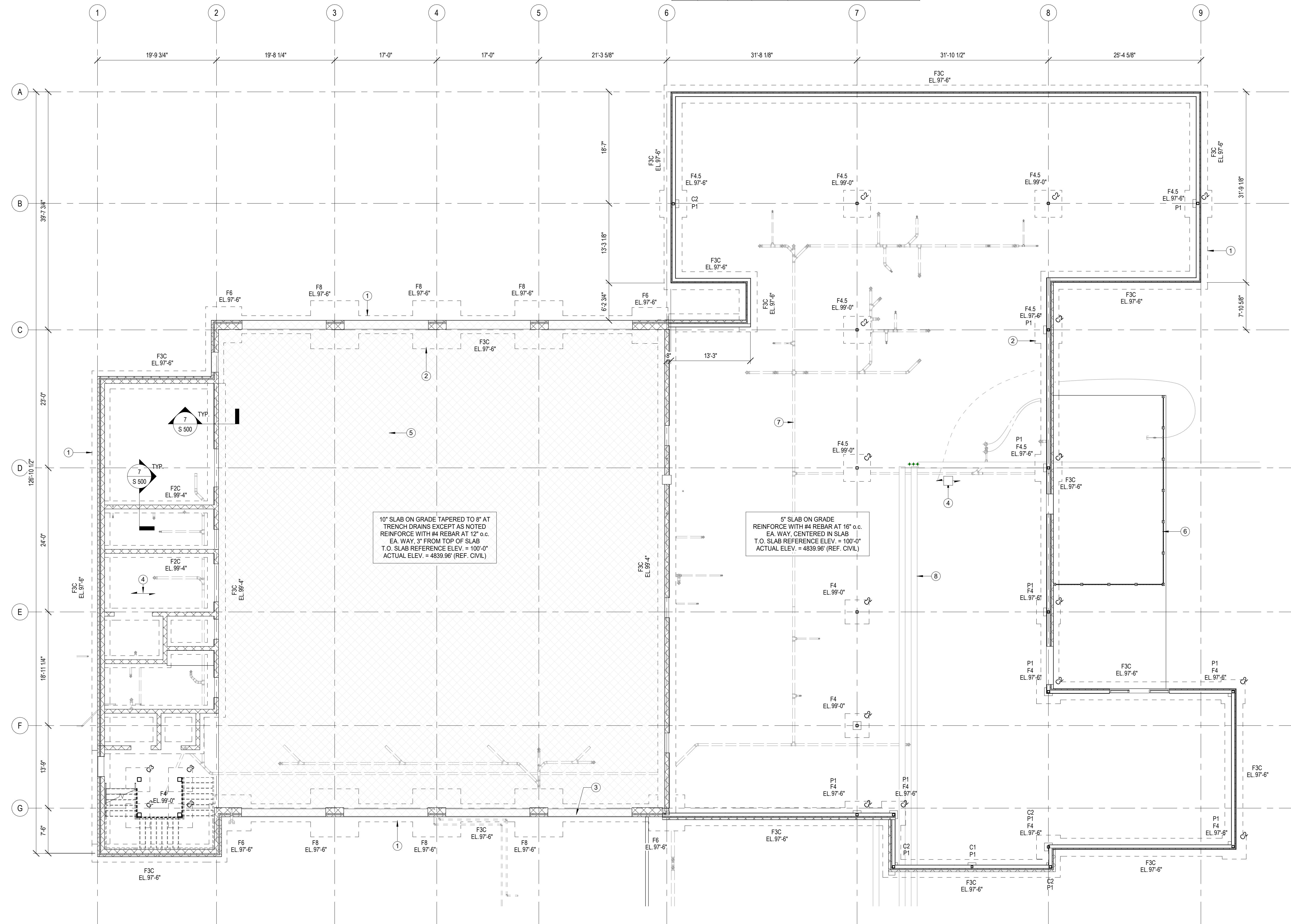
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Rev. #	Description	Date

1

GENERAL STRUCTURAL NOTES

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002

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FOUNDATION SCHEDULE				
MARK	LENGTH	WIDTH	THICKNESS	REINFORCING
F2C		2'-0"	1'-0"	(2) #5 CONTINUOUS
F3C		3'-0"	1'-0"	(3) #5 CONTINUOUS; #5 @ 12" TRANSV. (#5 @ 4" ON NORTH 5'-0" ONLY)
F4	4'-0"	4'-0"	1'-0"	(4) cont. #5 REBAR EA. WAY
F4.5	4'-6"	4'-6"	1'-0"	(4) cont. #5 REBAR EA. WAY
F6	6'-0"	6'-0"	1'-3"	(7) cont. #5 REBAR EA. WAY
F8	8'-0"	8'-0"	1'-3"	(9) cont. #5 REBAR EA. WAY

STRUCTURAL COLUMN / PIER SCHEDULE				
MARK	DESIGNATION	BASE PLATE	CAP PLATE	COMMENTS
C1	HSS4X4X1/4	A		
C2	HSS5X5X3/8	A		
C3	HSS8X8X3/8	B		
P1	16" x 16"	--	--	SEE PIER DETAILS FOR REINFORCING

FOUNDATION PLAN NOTES

(TYPICAL UNLESS NOTED OTHERWISE)

- FOR GENERAL NOTES AND MATERIAL SPECIFICATIONS SEE SHEET S001 AND S002.
- FOR ALL DIMENSIONS AND CONDITIONS NOT SHOWN, SEE ARCHITECTURAL PLANS.
- REFERENCE CIVIL DRAWINGS FOR EXTERIOR GRADING.
- REFERENCE SHEETS S 500 FOR TYPICAL DETAILS.
- GROUND FLOOR ELEVATION = 100'-0" = 4839.96' RE: CIVIL.
- 'F'x DENOTES FOOTING TYPE. REF. SCHEDULE ON SHEET S101 AND DETAILS.
- TOP OF FOOTING ELEVATION (TFE):
 - INTERIOR: 89'-0" U.N.O.
 - EXTERIOR: 97'-6" U.N.O.
- DESIGN ALLOWABLE SOIL BEARING CAPACITY: (REF. GEOTECHNICAL REPORT): 2,500 PSF
- CONTRACTOR TO IMMEDIATELY CONTACT STRUCTURAL ENGINEER FOR FIELD VERIFICATION IF EXISTING CONDITIONS VARY FROM THOSE STATED IN THESE DOCUMENTS.
- Cx DENOTES COLUMN DESIGNATION - SEE SHEET S101 FOR COLUMN SCHEDULE.
- SLOPE CONCRETE TO FLOOR DRAINS. REFER TO PLUMBING DRAWINGS FOR FLOOR DRAIN LOCATIONS AND DRAIN RIM ELEVATION BELOW FINISH FLOOR.
- INDICATES SLOPE TO DRAIN, REF. ARCH.
- ABBREVIATIONS:
 - TFE= TOP OF FOOTING ELEVATION
 - TSE= TOP OF SLAB ELEVATION
 - TPE = TOP OF PIER ELEVATION
 - TWE = TOP OF WALL ELEVATION
 - VLE = VENEER LEDGE ELEVATION
 - VLS = VENEER LEDGE STEP
 - F.S.= FOOTING STEP
 - C.J.= CONTROL JOINT
- INDICATES STEP.

KEYNOTE LEGEND

- TYPICAL CONTINUOUS STRIP FOOTING, TYP
- PAD FOOTING, TYPICAL, PROVIDE REINFORCING PER SCHEDULE AND DETAILS.
- WALL STEP AT THRESHOLD, TYP
- 5" SLAB ON GRADE REINFORCE WITH #4 REBAR AT 16" o.c. EA. WAY, CENTERED IN SLAB T.O. SLAB REFERENCE ELEV. = 100'-0" ACTUAL ELEV. = 4839.96' (REF. CIVIL)
- TRENCH DRAIN, TYP
- WOODEN FENCE, SEE ARCHITECTURAL AND CIVIL DRAWINGS
- PIPING, SEE PLUMBING
- DUCT BANK UNDER SLAB, SEE COMM DRAWINGS



NOT FOR CONSTRUCTION

Owner
City of Greeley
10th Street
Greeley, Colorado 80631
970.350.9777

Architect/Civil Engineer/Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc.
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.388.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

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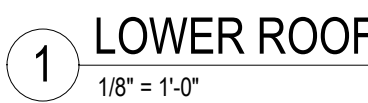
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Rev. # Description Date

FOUNDATION PLAN

S
101



2	1.5B METAL DECK, SEE GENERAL NOTES, AND DETAILS ON SHEET S 520
4	4" CONCRETE ON 1.5" METAL DECK, SEE GENERAL NOTES, AND DETAILS ON SHEET S 520
3	L6x3/8 CONTINUOUS EDGE ANGLE W/ 3/4" MECHANICAL ANCHORS CENTERED ON GROUTED CMU CORES AT 48" o.c. - 4 3/4" MIN. EMBED. SEE DETAIL
4	RTU, SEE ROOF LOAD PLAN AND MECHANICAL DRAWINGS.
5	PROVIDE ADJUSTABLE K-SERIES JOIST OF INDICATED SIZE TO SUPPORT ROOF TO MECHANICAL UNIT CURB, ADJUST JOIST CURBING AT MECHANICAL UNIT AS REQUIRED TO COINCIDE WITH CRUP.
6	RTU SCREENING, SEE DETAILS ON SHEET S ____
7	MECH. DUCT, TYP
8	8-INCH MASONRY WALLS, SEE SECTIONS AND GENERAL DETAILS ON SHEET S 510
9	SEE SHEET S 103 FOR APPARATUS BAY ROOF FRAMING
10	PREFABRICATED STEEL STAIRS
11	MANHOLE WITH STEEL COVER IN STAIR LANDING / FLOOR

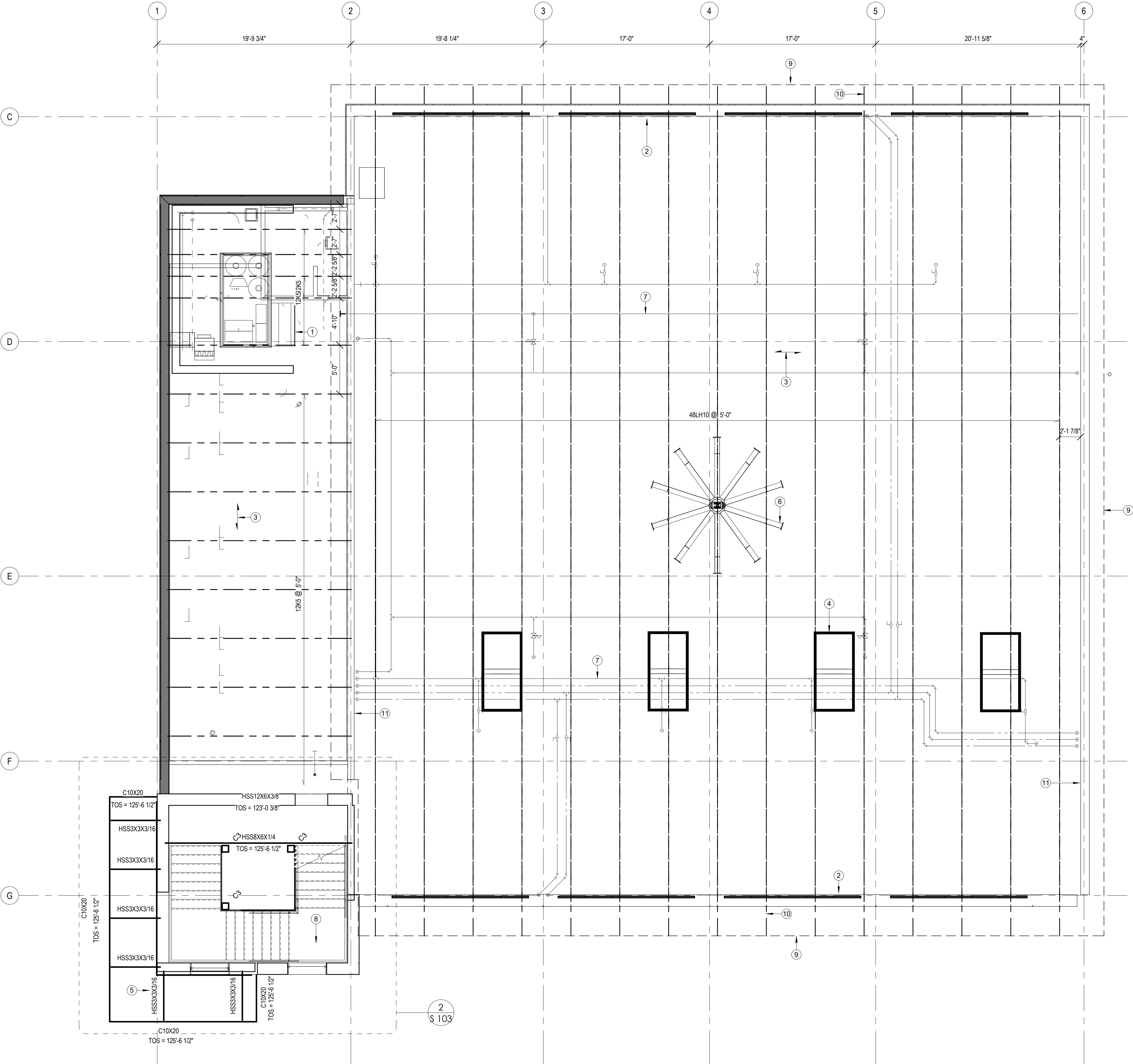


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102

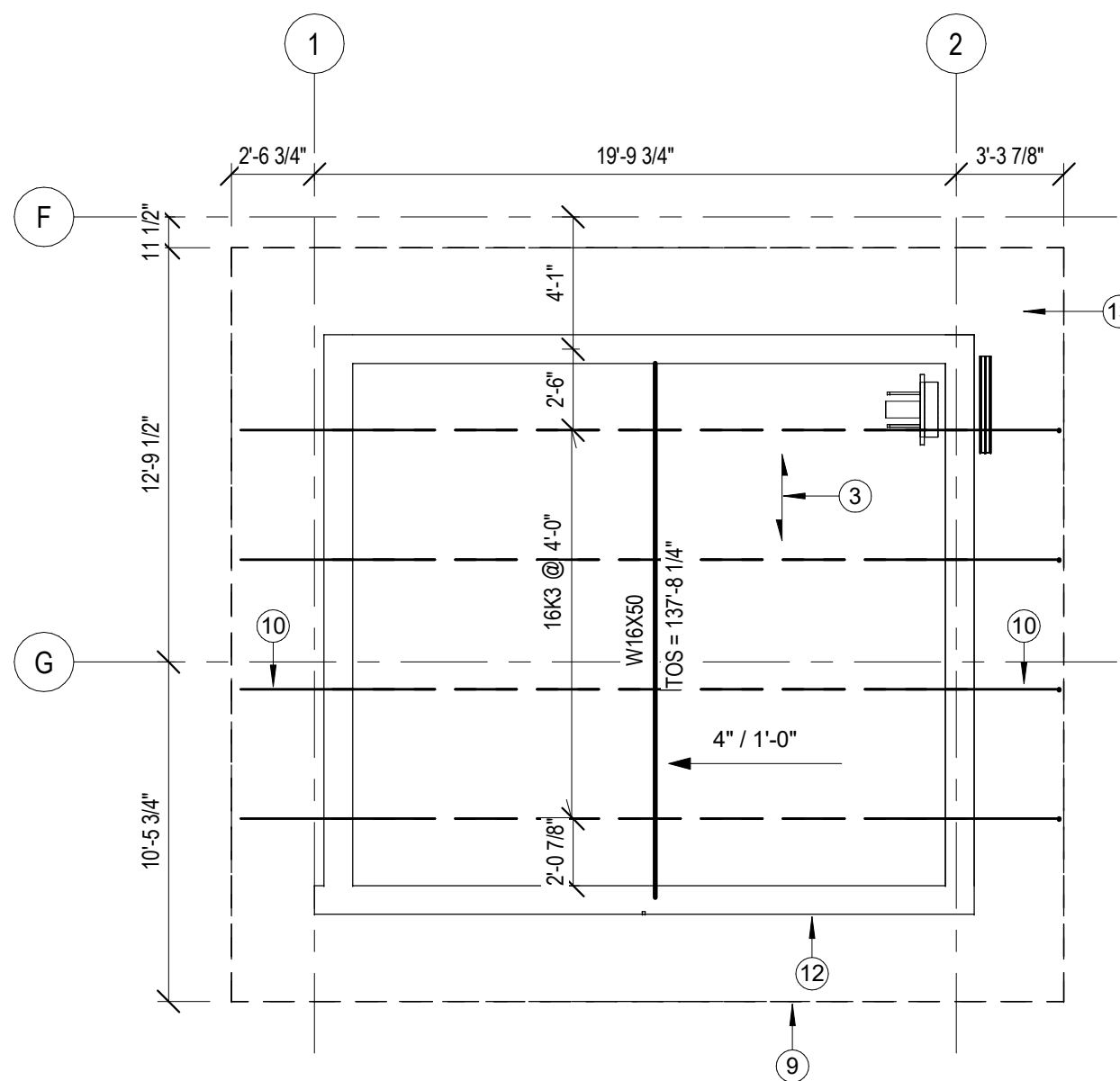


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1 UPPER ROOF PLAN
3/16" = 1'-0"



2 HOSE TOWER ROOF FRAMING
3/16" = 1'-0"



STRUCTURAL ROOF PLAN NOTES

- FOR GENERAL NOTES AND MATERIAL SPECIFICATIONS SEE SHEET S 001 AND S 002
- FOR ALL DIMENSIONS AND CONDITIONS NOT SHOWN, REF. ARCHITECTURAL PLANS.
- ALL BEAMS LOCATED ON GRIDS OR EQUAL SPACING UNO.
- SEE ELEVATIONS FOR TOP OF STEEL ELEVATIONS.
- DEVOTES ROOF DECK SPAN DIRECTION
- ROOF DECK:
1 1/2" DEEP x 22ga. (0.0295") TYPE B METAL ROOF DECK MINIMUM PROPERTIES:
I = 0.155 in⁴/ft
S_x = 0.186 in³/ft
S_y = 0.192 in³/ft
CONNECTORS: 5/8" PUDDLE WELDS ON A 36/4 PATTERN TO SUPPORTS - 12" o.c.
SIDELAP FASTENERS: (1) #10 TEK SCREWS PER SPAN.
INSTALL DECK OVER A MINIMUM OF 3 SPANS CONTINUOUS.
- JOIST AND TRUSS DESIGN CRITERIA:
DEAD LOAD:
25psf - TYPICAL U.N.O.
20psf AT MEZZANINE ROOF
JOISTS DESIGNED TO SUPPORT ROOF TOP MECHANICAL LOADS
ONLY AT LOCATIONS INDICATED ON PLANS.
SNOW LOAD:
BALANCED SNOW LOAD: 25.2 psf
- JOIST BRIDGING SHALL BE OF THE SIZE, TYPE, AND SPACING AS PER SJI. FINAL SIZES, QUANTITIES, AND LOCATIONS SHALL BE AS PER STEEL JOIST SHOP DRAWINGS. PROVISIONAL LOCATIONS ARE AS INDICATED ON PLANS.
- CX DENOTES COLUMN DESIGNATION
SEE SHEET S 101 FOR STRUCTURAL COLUMN SCHEDULE.

KEYNOTE LEGEND

- RTU, SEE ROOF LOAD PLAN AND MECHANICAL DRAWINGS.
- SEE LINTEL, SEE DETAILS ON SHEET S 530
- 1.5B METAL DECK, SEE GENERAL NOTES, AND DETAILS ON SHEET S 520
- SKYLIGHT, SEE ARCH
- 4" CONCRETE ON 1.5" METAL DECK, SEE GENERAL NOTES, AND DETAILS ON SHEET S 520
- FAN, SEE ARCH AND MECHANICAL
- PIPING, SEE PLUMBING
- PREFABRICATED STEEL STAIRS
- ROOF OUTLINE
- EXTEND TOP CHORD OF ROOF JOISTS TO ROOF OUTLINE, TYP
- 16x4x3/8 CONTINUOUS EDGE ANGLE W/ 3/4" MECHANICAL ANCHORS
CENTERED ON GROUTED CMU CORES AT 48" o.c. - 4 3/4" MIN. EMBED, SEE DETAIL
- 8 INCH MASONRY WALLS, SEE SECTIONS AND GENERAL DETAILS ON SHEET S 510
- 6 INCH COLD FORMED ROOF FRAMING, ATTACH TO JOIST TAILS, AND MASONRY WALL, SPACE AT 16 INCHES O.C. TYP.



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Owner

Architect/Civil Engineer/Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect

Mechanical Engineer

Electrical Engineer

City of Greeley
GREELEY FIRE STATION #6

20TH ST., GREELEY CO 80634

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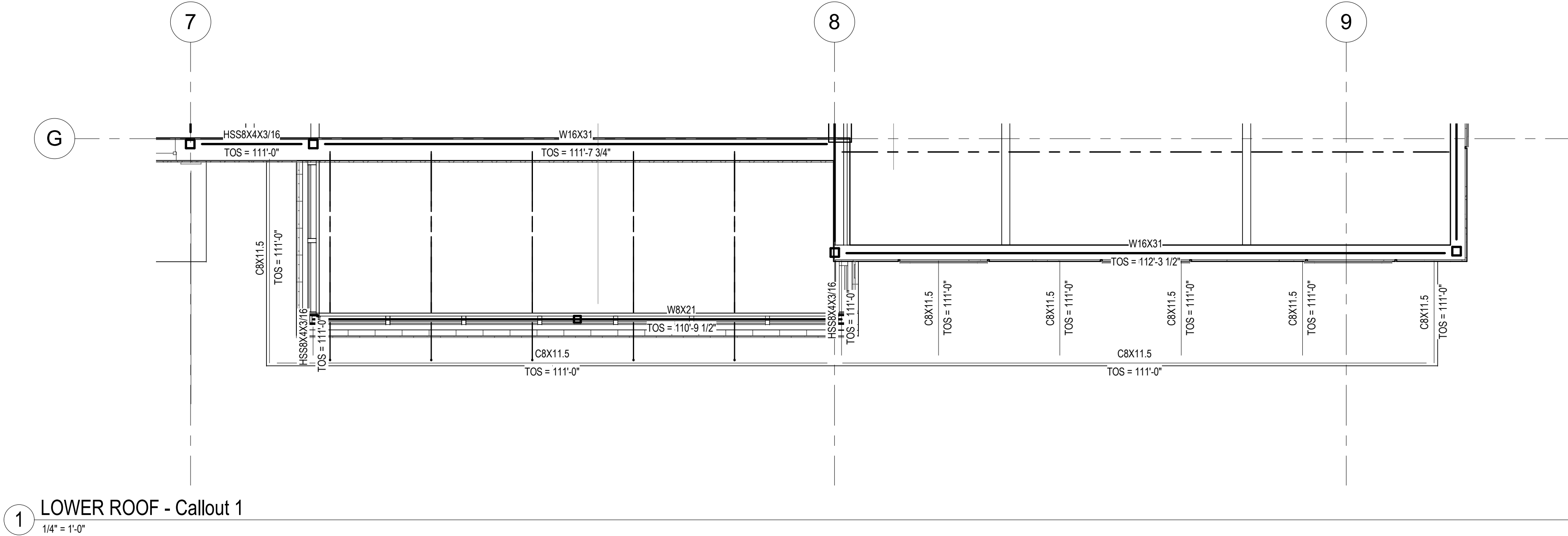
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UPPER ROOF PLAN

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103

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Owner

Architect/Civil Engineer/Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect

Mechanical Engineer

Electrical Engineer

City of Greeley
GREELEY FIRE STATION #6

20TH ST, GREELEY CO 80634

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Rev. #	Description	Date

ENLARGED PLANS

S
401

Owner
City of Greeley
10th Street
Greeley, Colorado 80631
970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
LHM Design
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

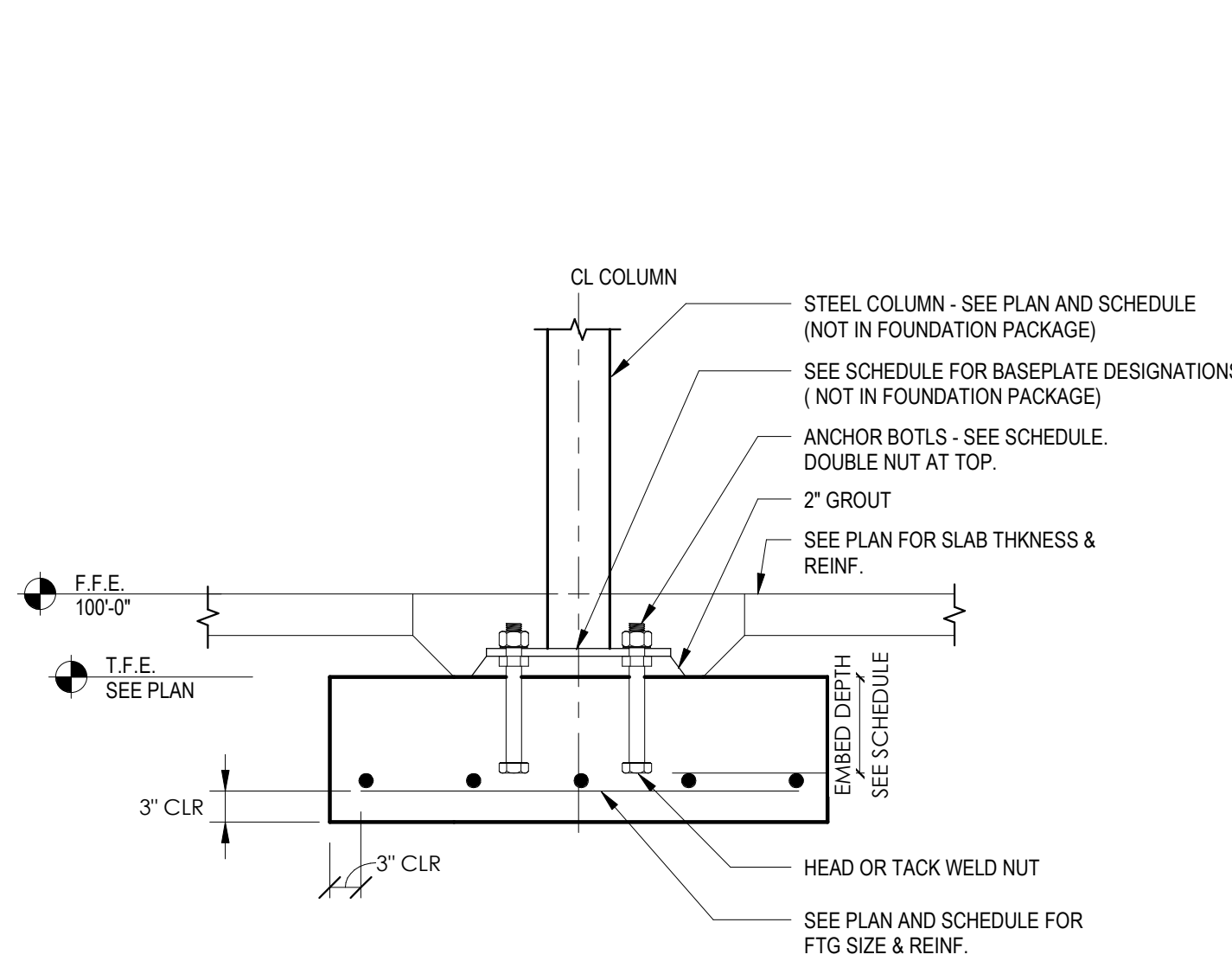
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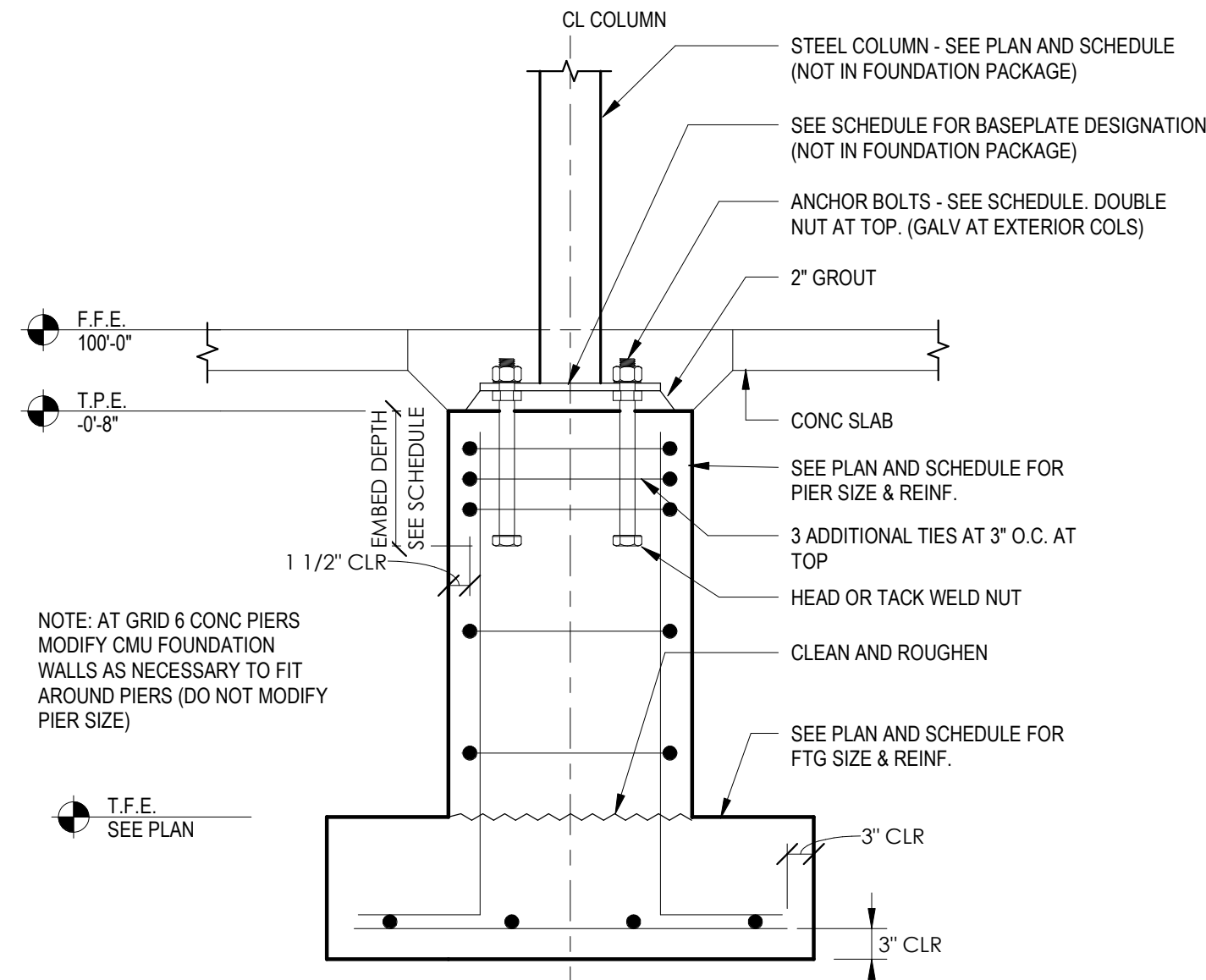
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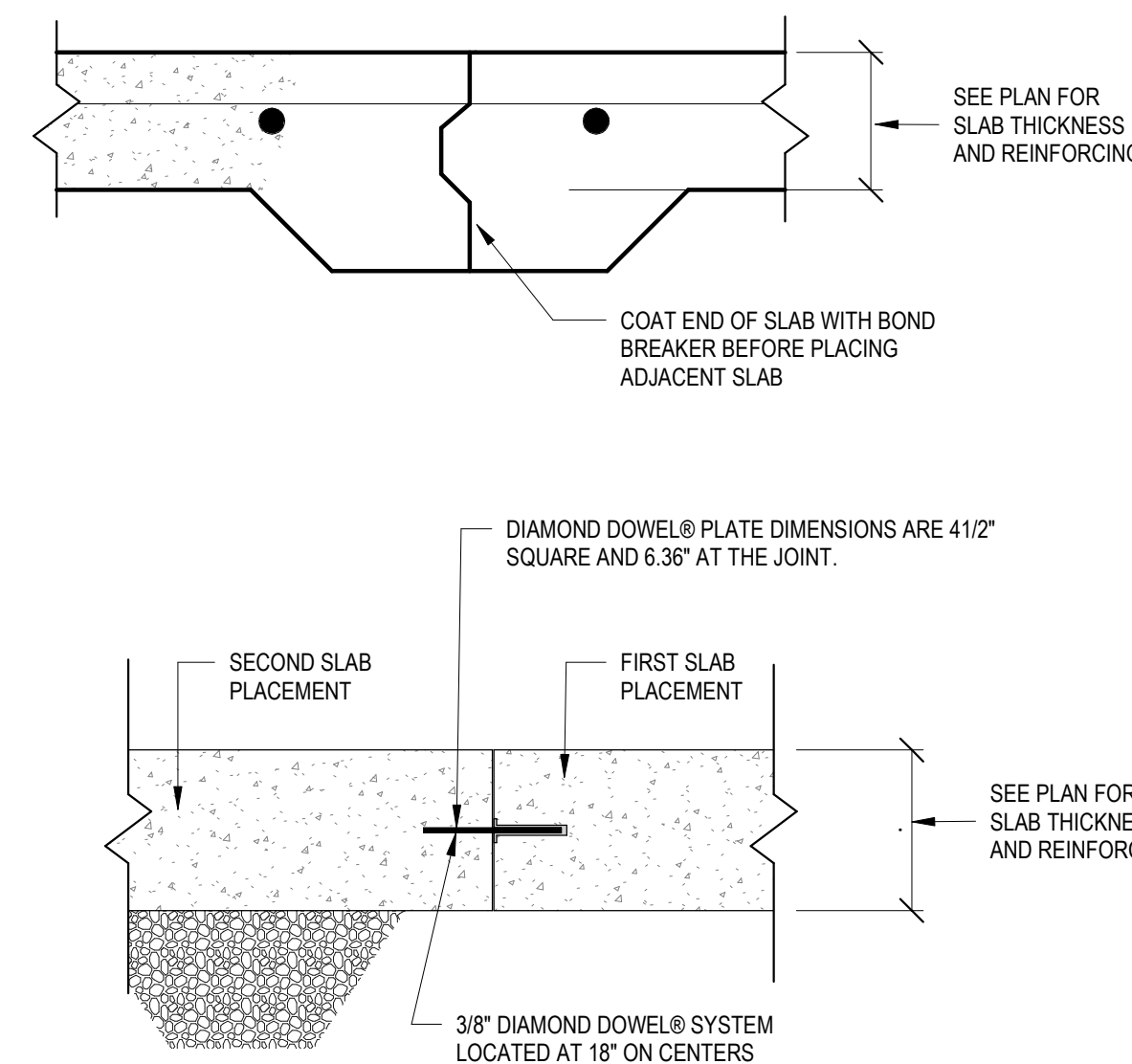
FOUNDATION DETAILS



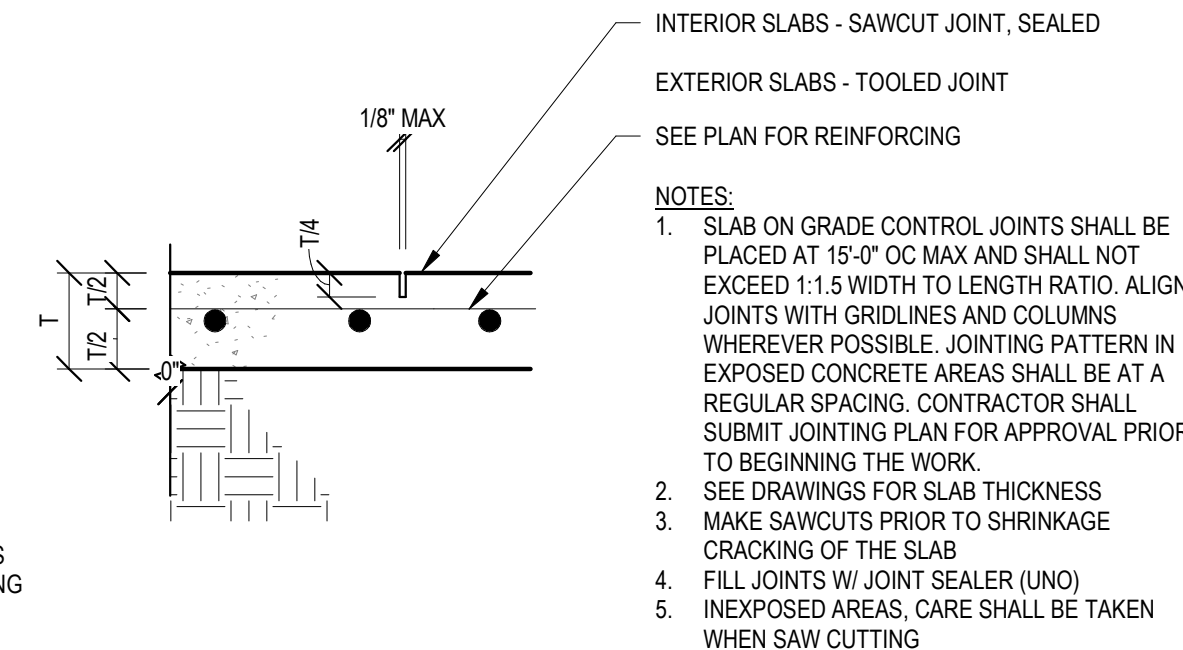
1 SECTION THRU TYPICAL INTERIOR COLUMN
3/4" = 1'-0"



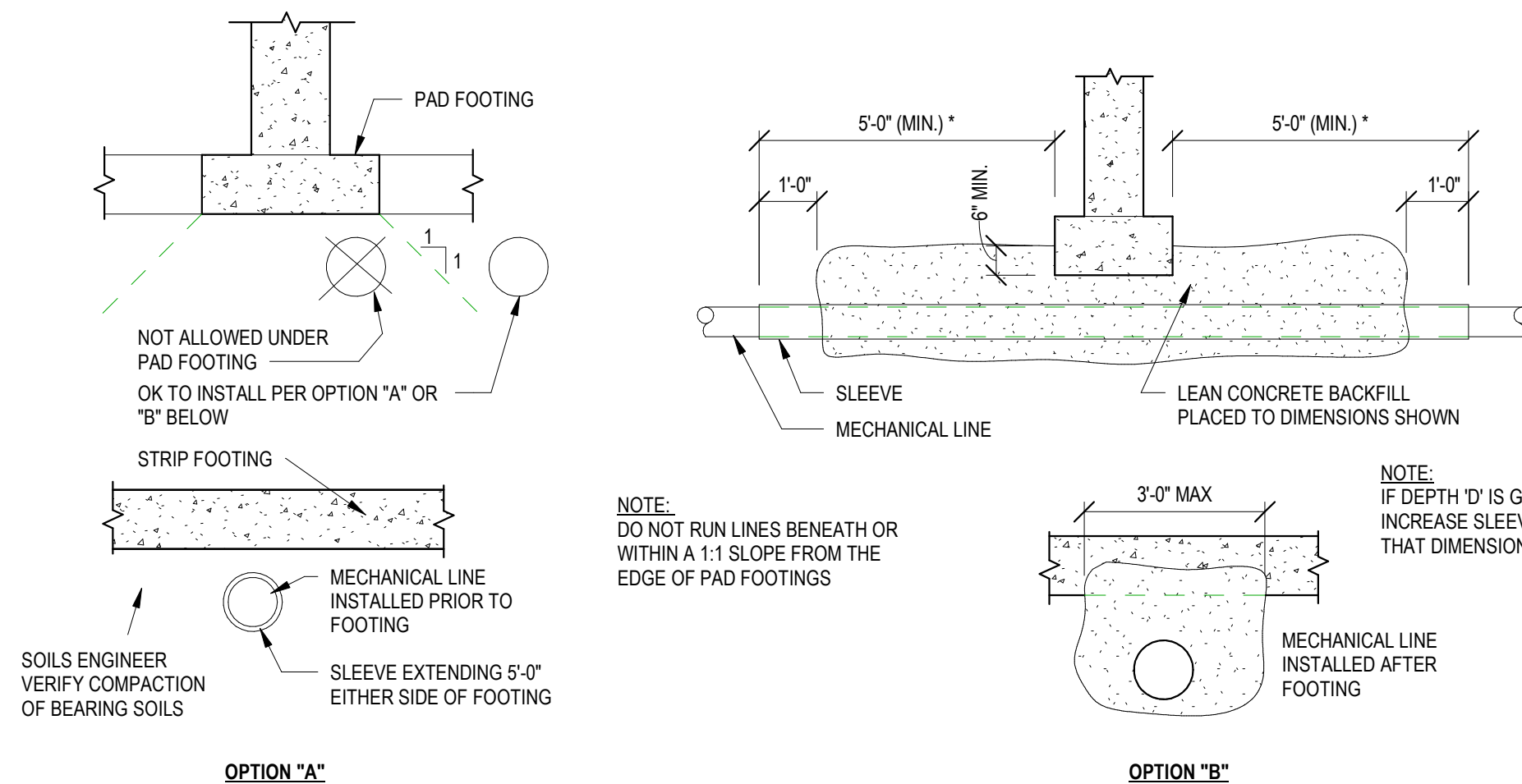
2 SECTION THRU TYPICAL COLUMN WITH PIER
3/4" = 1'-0"



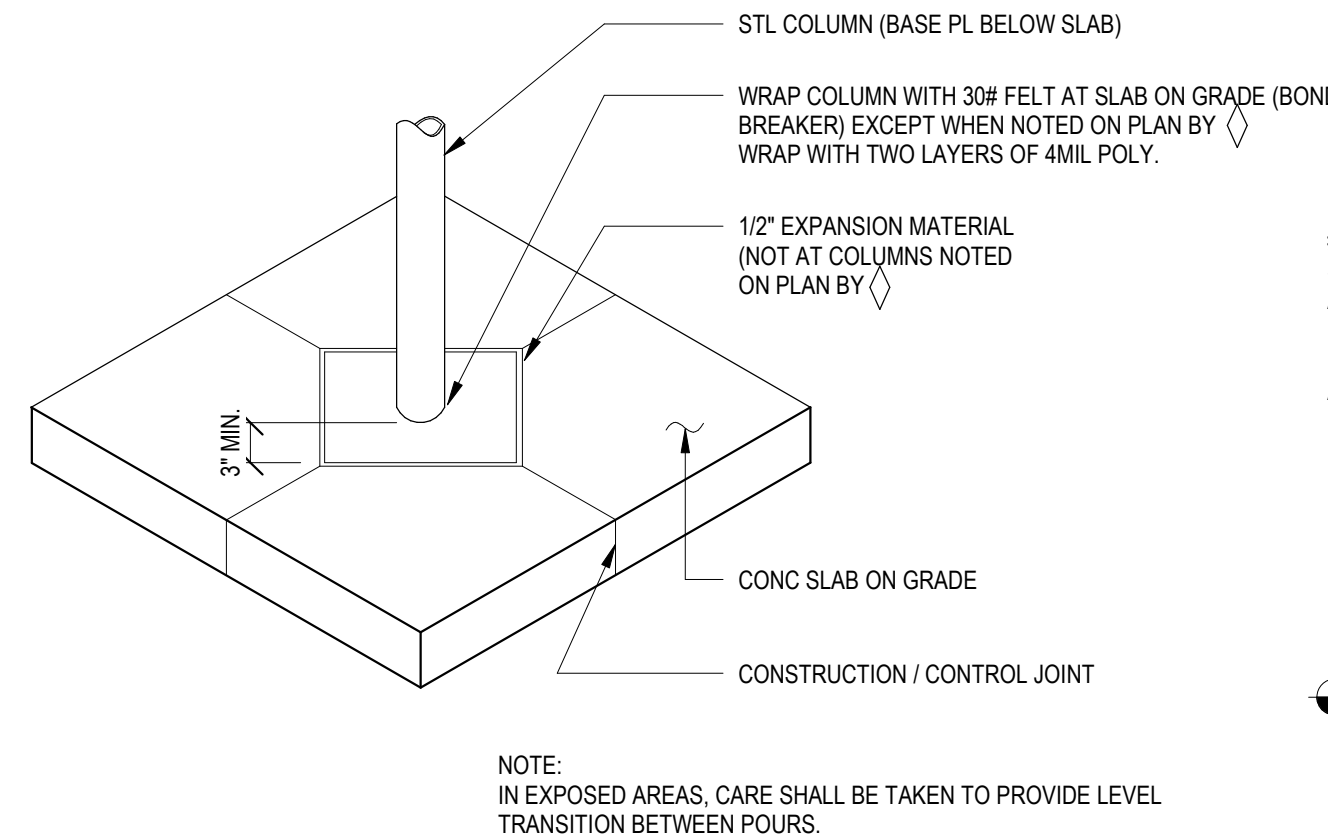
3 CONSTRUCTION JOINT ALTS IN SLAB
NOT TO SCALE



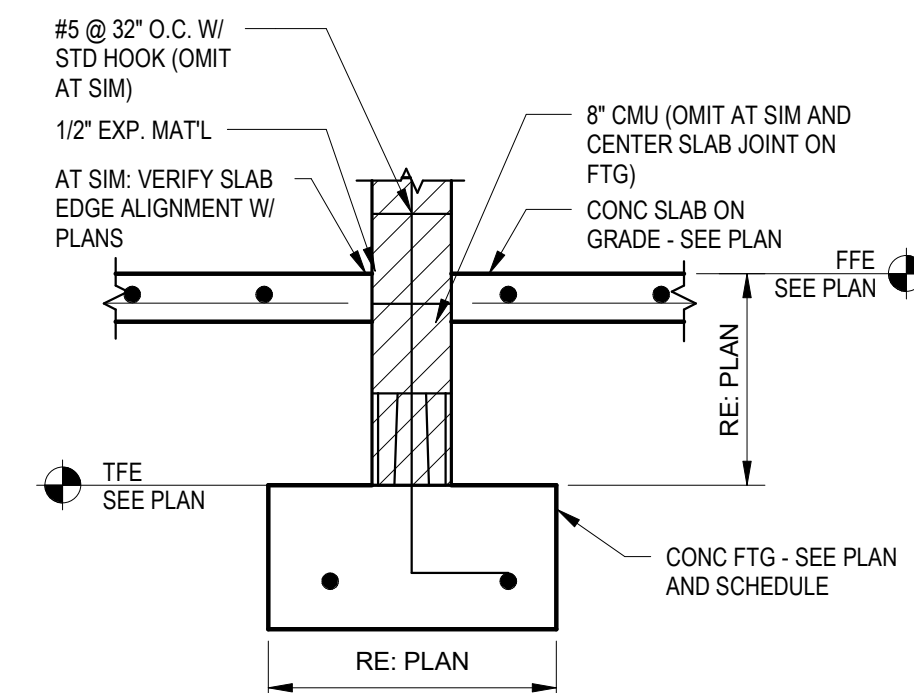
4 SLAB ON GRADE CONTROL JOINT
NOT TO SCALE



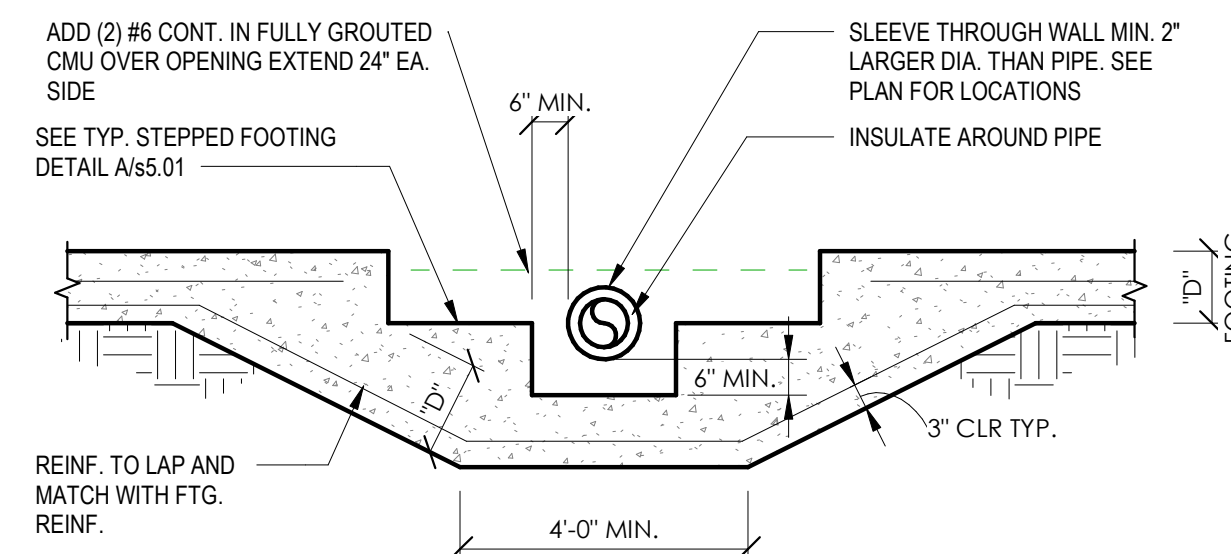
5 CONTRACTOR OPTIONS FOR UTILITIES BELOW FOOTINGS
NOT TO SCALE



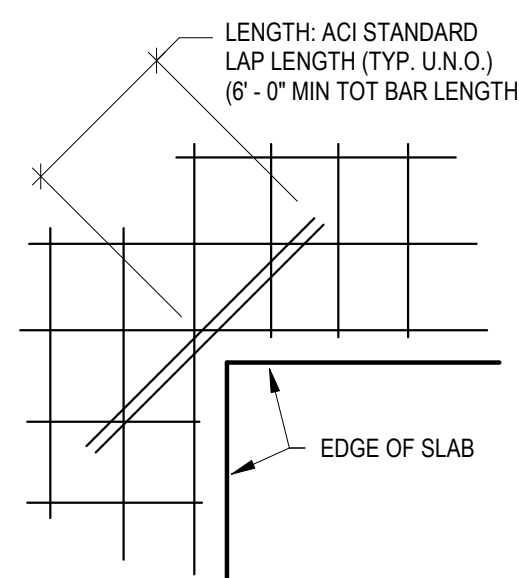
6 SLAB ISOLATION JOINT DETAIL AT COLUMN
NOT TO SCALE



7 CMU WALL FOUNDATION SECTION
NOT TO SCALE



8 TYPICAL UTILITY OPENING THROUGH CMU WALL
NOT TO SCALE



9 SLAB REENTRANT CORNER DETAIL
NOT TO SCALE

WALL / SLAB REINF. BARS *	ADDITIONAL CORNER BARS
WWF	2 - #4
#4	2 - #4
#5	2 - #5
#6	2 - #6
#7	2 - #5
#8	2 - #6

* USE LARGEST DIAMETER BAR IN EITHER DIRECTION FOR DETERMINING CORNER BARS.

NOTES:

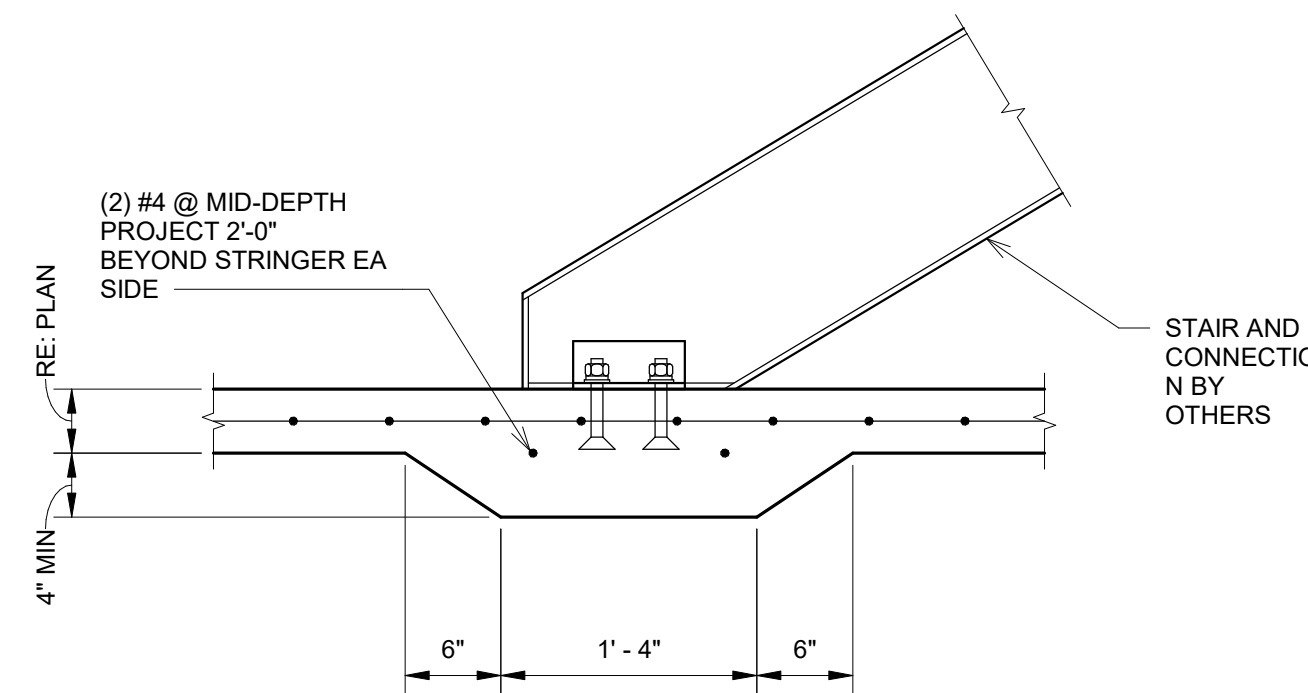
PROVIDE 2" CLEAR COVER OVER ALL BARS AT OPENINGS

ADDITIONAL CORNER BARS:

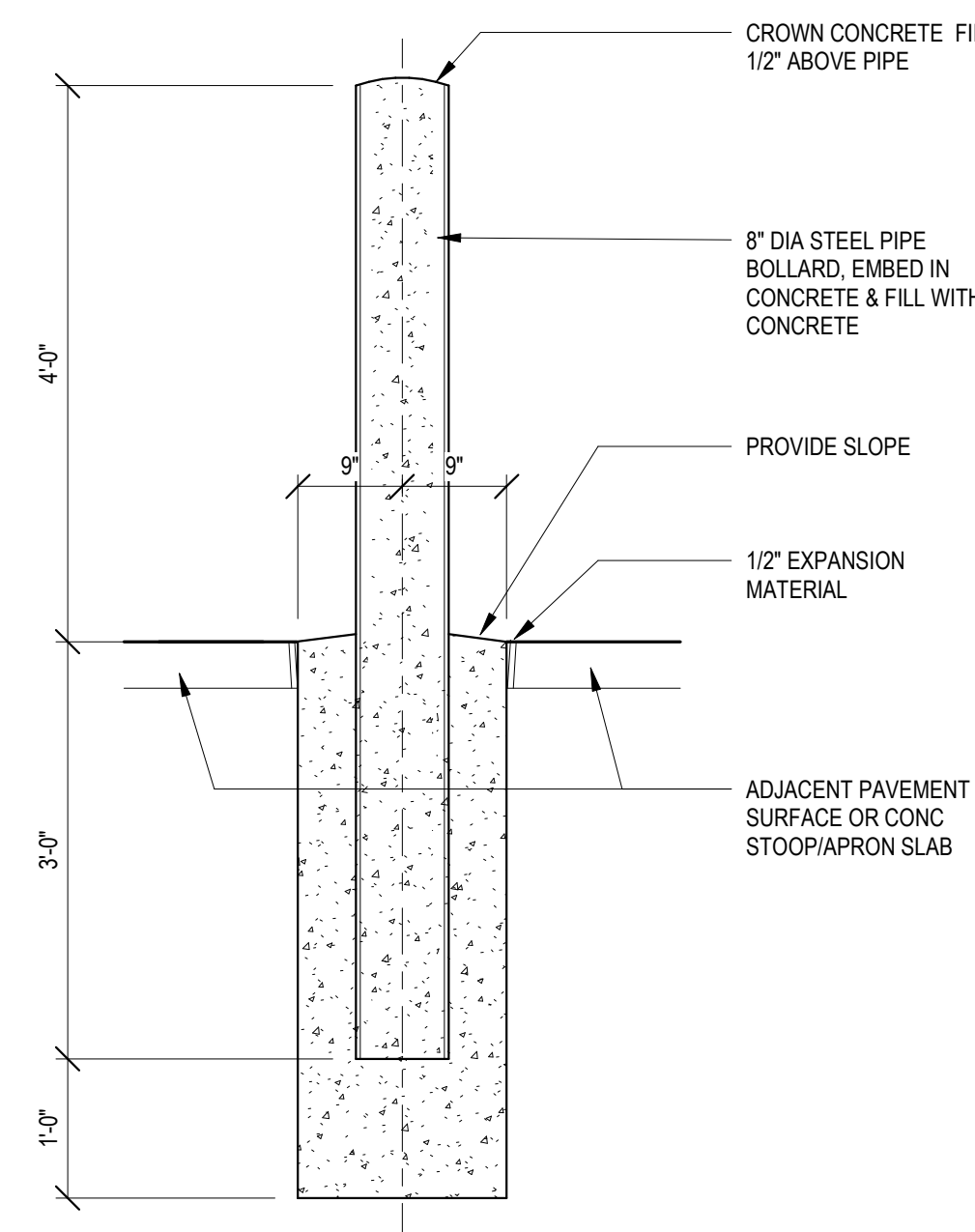
WHEN SLAB HAS BOTTOM REINFORCEMENT LAYER ONLY, PLACE DIAGONAL BARS AT MID-SPAN.

WHEN SLAB HAS TOP REINFORCEMENT LAYER ONLY, PLACE DIAGONAL BARS WITH TOP REINFORCEMENT.

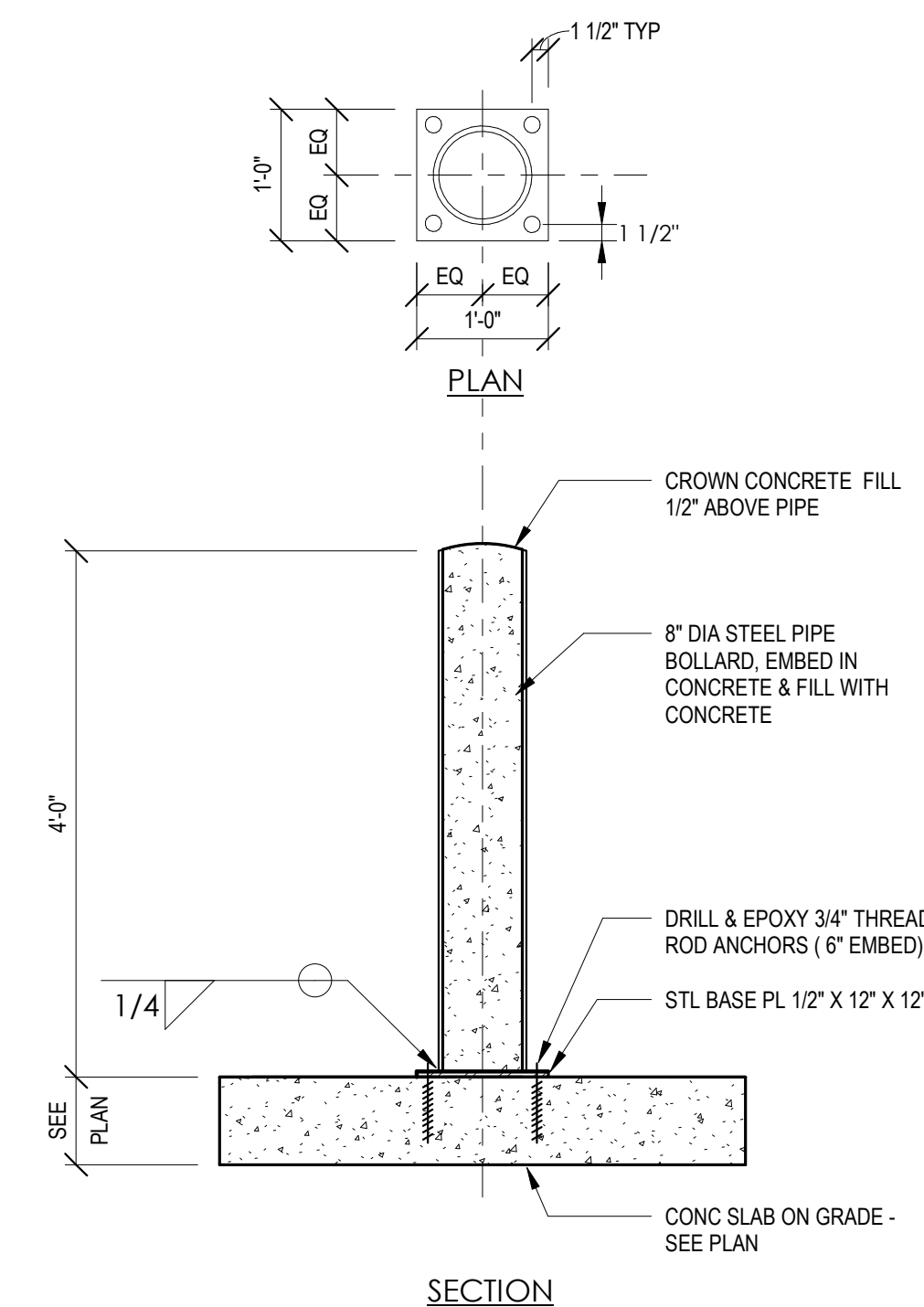
WHEN SLAB HAS TOP & BOTTOM REINFORCEMENT LAYERS, PLACE DIAGONAL BARS WITH TOP & BOTTOM REINFORCEMENT.



10 THICKENED SLAB @ STAIR STRINGER
NOT TO SCALE



11 TYPICAL BOLLARD DETAIL
3/4" = 1'-0"



12 BOLLARD DETAIL - SURFACE MOUNT
3/4" = 1'-0"

Owner
City of Greeley
10th Street
Greeley, Colorado 80631
970.350.9777

Architect/Civil Engineer/Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc.
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.588.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

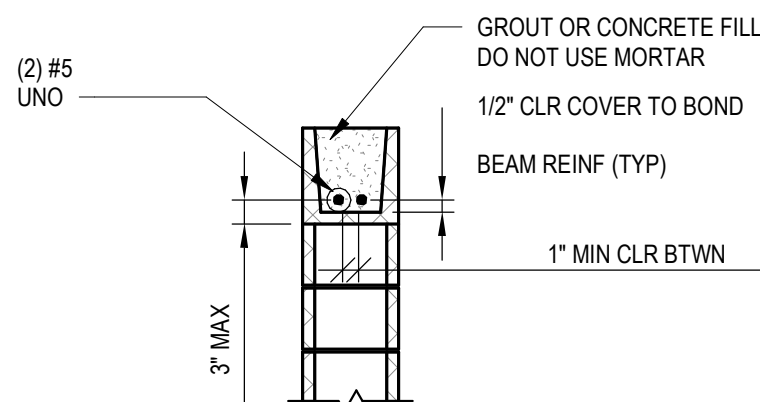
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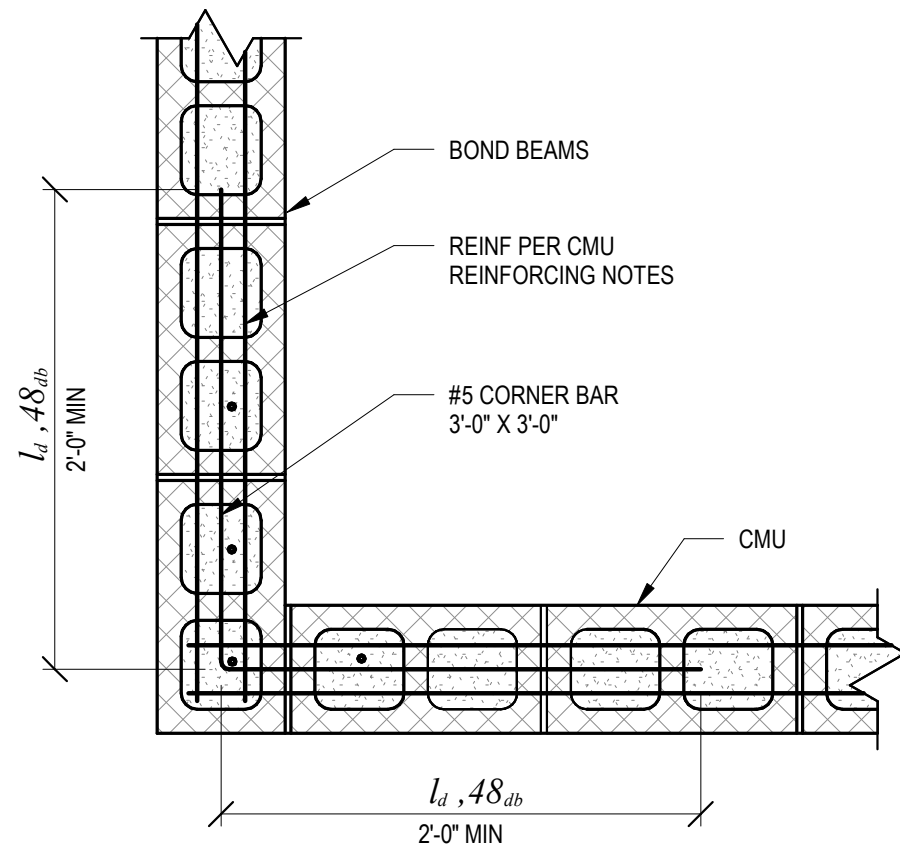
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MASONRY DETAILS



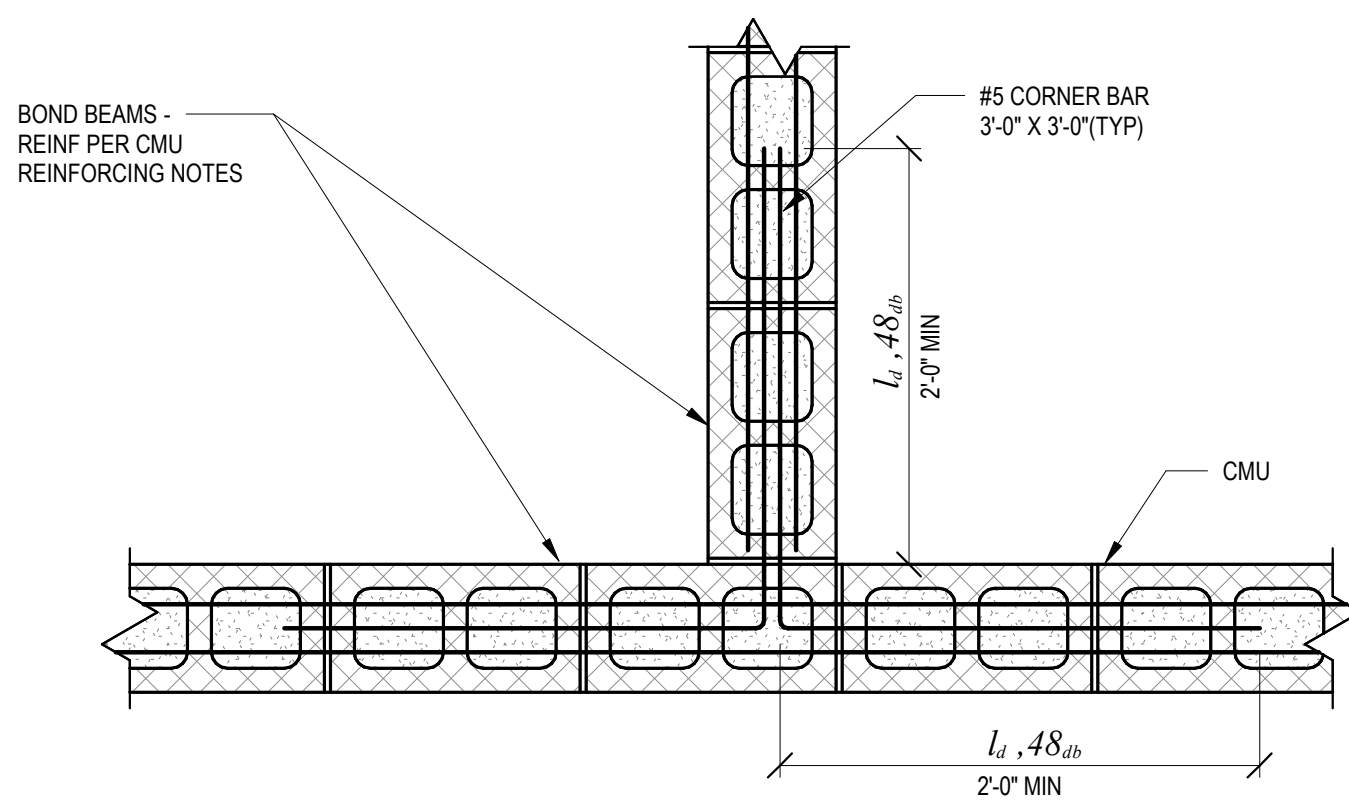
SECTION

NOTE:
SEE MASONRY PLANS FOR VERTICAL REINFORCEMENT



**TYPICAL BOND BEAM REINF @
EXTERIOR & INTERIOR CORNERS**

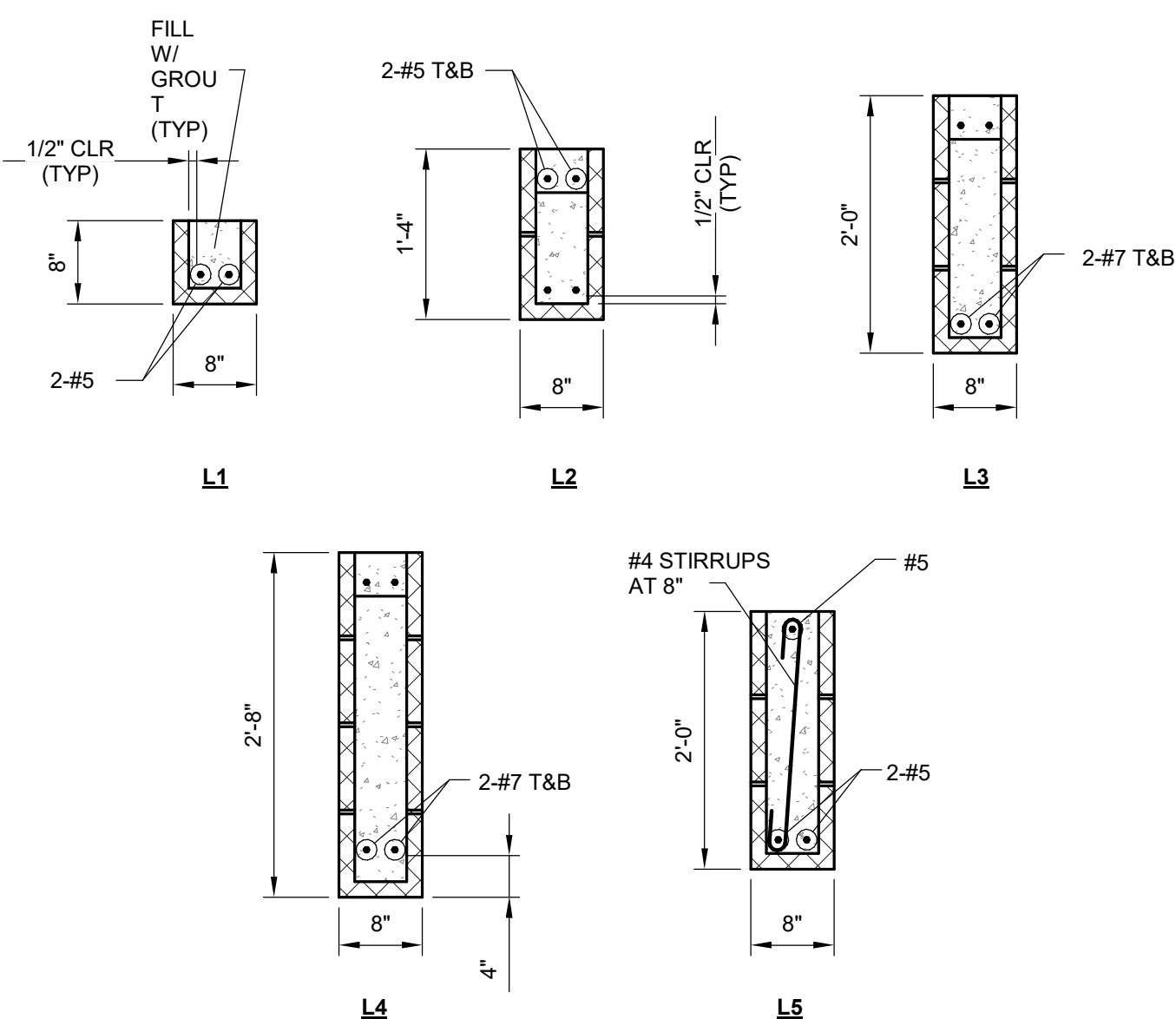
NOTE:
AT CONTROL JOINTS - CONSTRUCT
DUMMY JOINTS, WITH JOINT SEALANT
AND BACKER ROD, IN BOND BEAM
EXPOSED FACES AND CONTINUE
REINFORCEMENT AND GROUT THRU
JOINT



**TYPICAL BOND BEAM
REINF @ WALL
INTERSECTIONS**

1 BOND BEAM REINFORCING

NOT TO SCALE



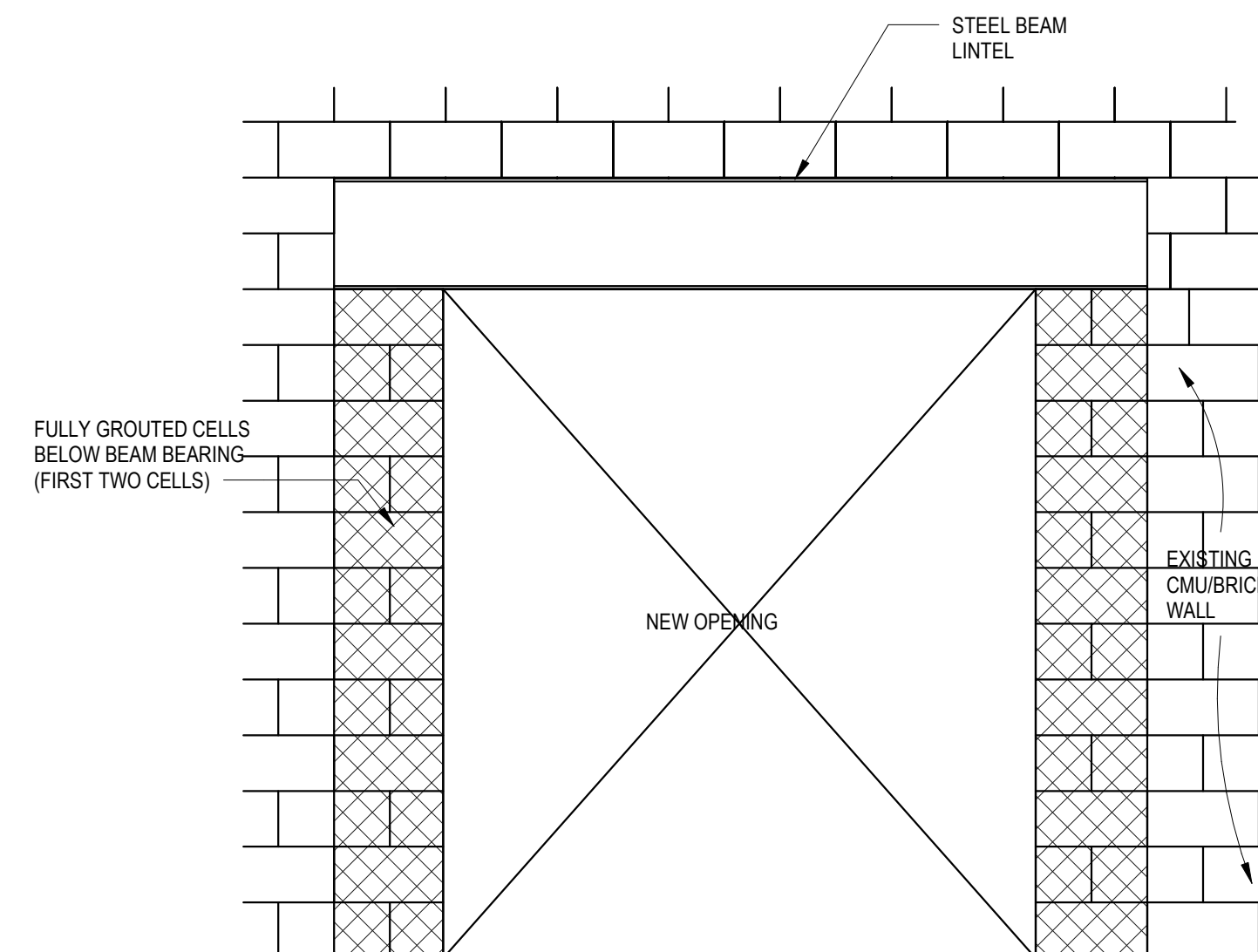
TYPE	CMU OPENING SIZE	
	8" CMU	12" CMU
L1	0'-0" TO 3'-6"	0'-0" TO 2'-0"
L2	> 3'-6" TO 6'-6"	> 2'-0" TO 4'-6"
L3	> 6'-6" TO 10'-6"	> 4'-6" TO 7'-0"
L4	> 10'-6" TO 16'-6"	> 7'-0" TO 9'-0"

NOTES:

- THIS SCHEDULE SHALL BE USED FOR OPENINGS IN NON-LOAD BEARING WALLS NOT SHOWN ON DRAWINGS. CONSULT ENGINEER FOR OPENINGS NOT SHOWN IN LOAD BEARING WALLS.
- LINTELS SHALL EXTEND A MINIMUM OF 2'-0" OR 48 BAR DIAMETERS (WHICHEVER IS GREATER) BEYOND EACH SIDE OF OPENING.
- VERTICAL BARS ABOVE LINTELS SHALL BE EMBEDDED IN LINTELS.

3 LINTEL SCHEDULE

NOT TO SCALE



5 MASONRY WALL OPENING SUPPORT

NOT TO SCALE

2 CMU WALL REINFORCING, TYP.

NOT TO SCALE

NOTES:

- LAP LENGTHS AND EMBEDMENTS SHALL COMPLY WITH GENERAL NOTES.
- OPENING LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL PLANS, ELEVATIONS & DETAILS.
- SEE LINTEL SCHEDULE FOR REINF OVER OPENINGS.
- SEE PLANS AND SECTIONS FOR HORZ AND VERT REINF.
- PROVIDE MATCHING DOWELS INTO FOUNDATION FOR ALL VERT REINF, UNO.
- DIMENSION SHALL BE THE LARGER OF THE LAP LENGTH PER 24".

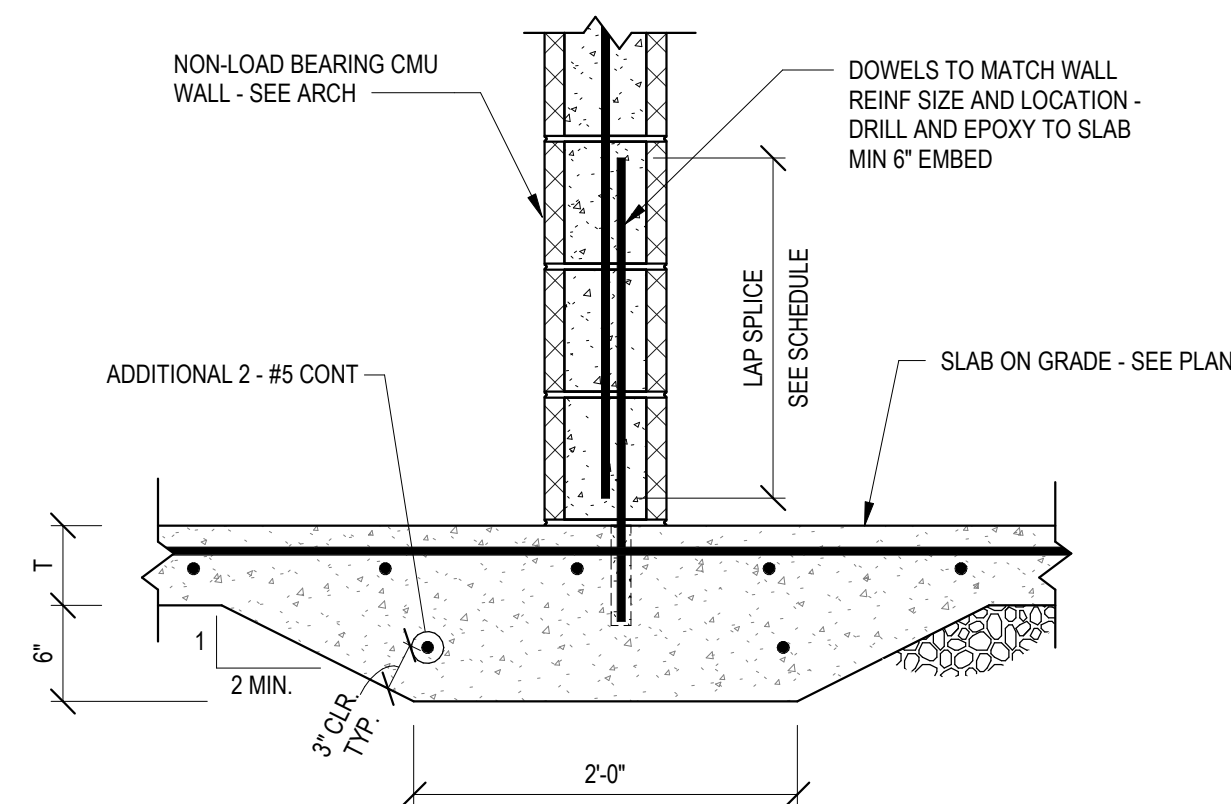
CONTROL JOINT

CLEANOUT OPENING AT VERT REINF AS REQ.

T.O.F.

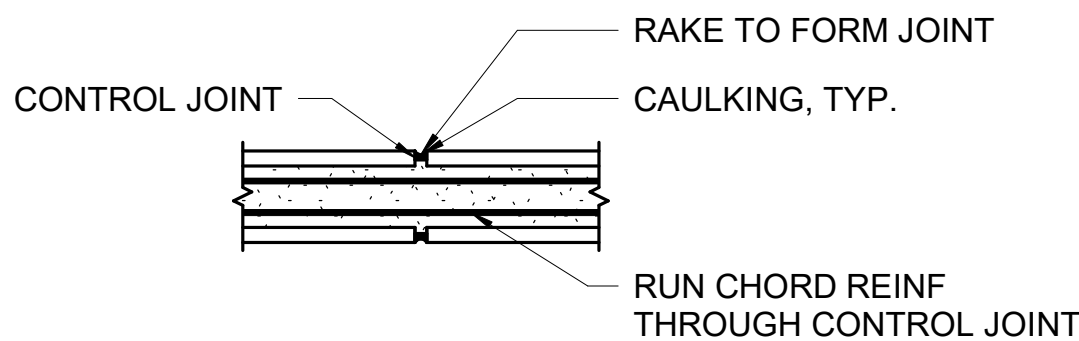
4 TYPICAL THICKENED SLAB ON GRADE AT INTERIOR NON-LOAD BEARING CMU WALL DETAIL

NOT TO SCALE



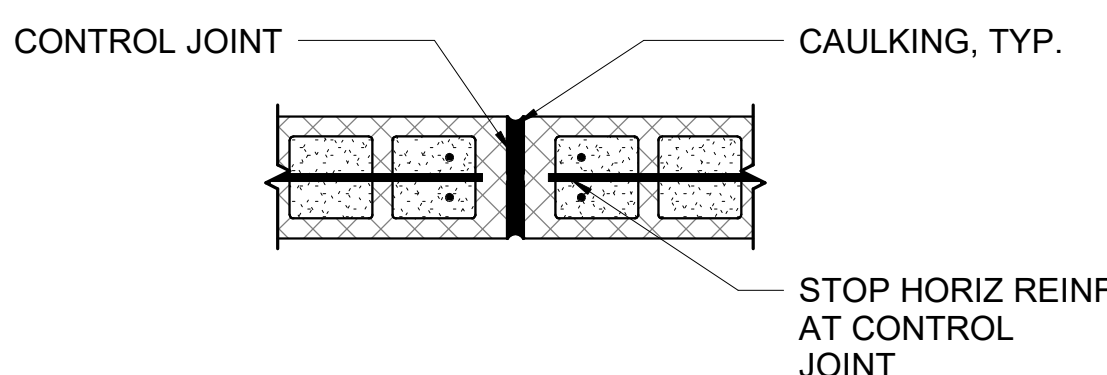
NOTES:

- SEE NON-LOAD BEARING CMU WALL REINFORCING SCHEDULE FOR ADDITIONAL INFORMATION.
- THICKENED SLAB SHALL BE CENTERED ON CMU WALL LOCATIONS, UNLESS NOTED OTHERWISE.
- CONTRACTOR'S OPTION PROVIDE CAST-IN HOOKED DOWELS IN LIEU OF DRILL AND EPOXY DOWELS.



6 BOND BEAM CONTROL JOINT, TYP.

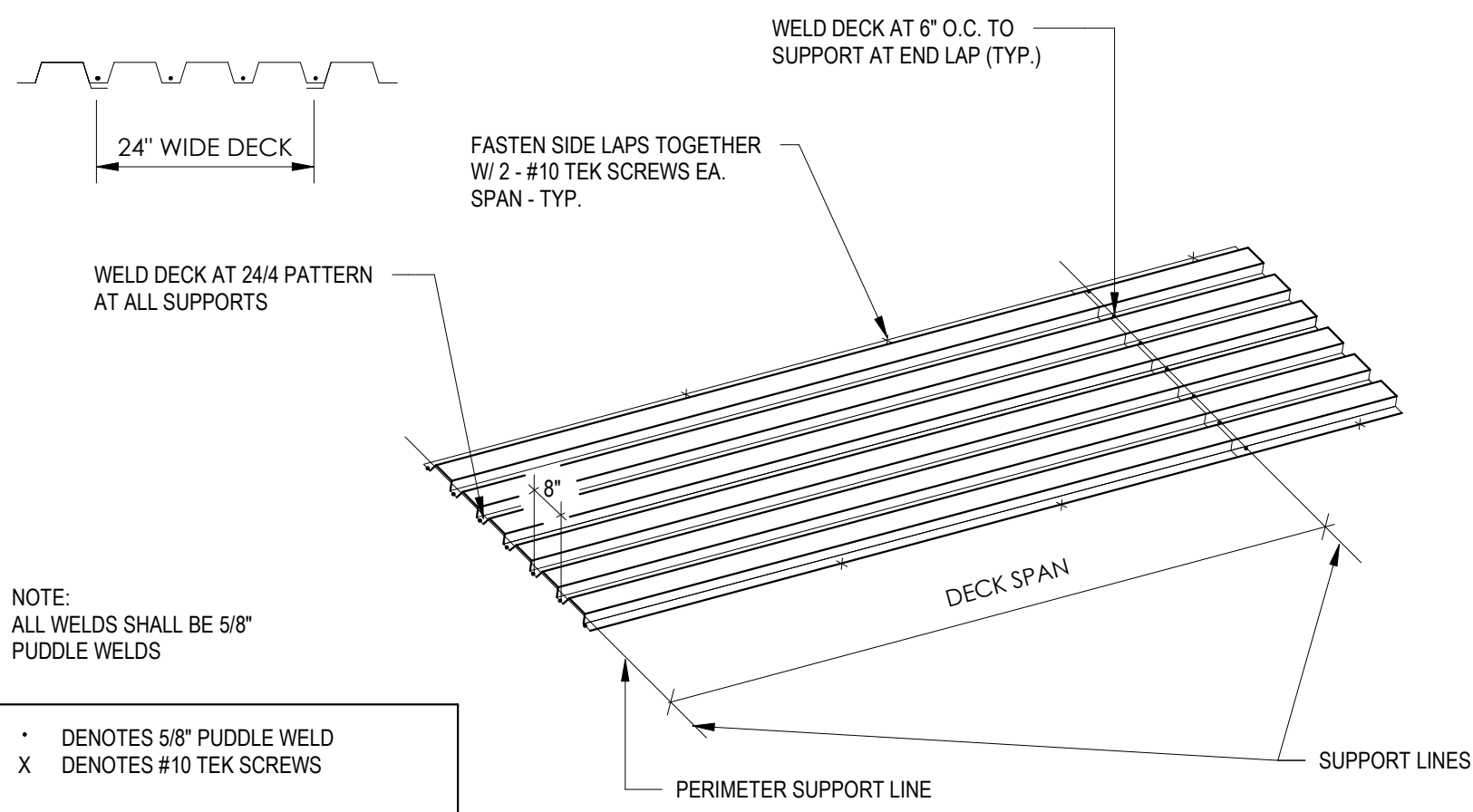
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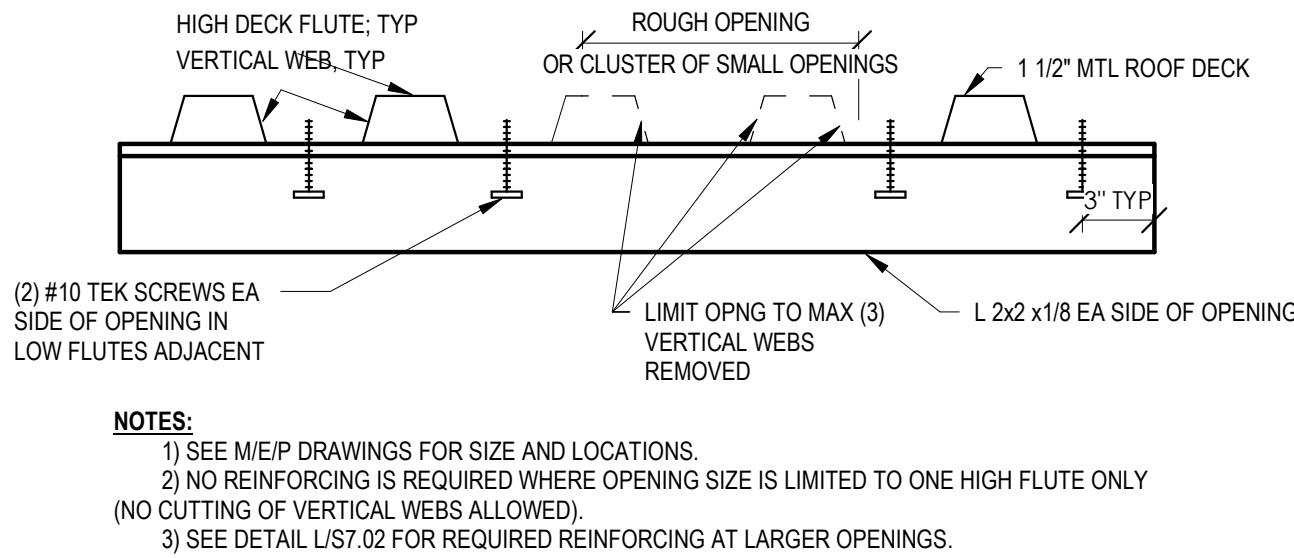
7 MASONRY WALL CONTROL JOINT

NOT TO SCALE

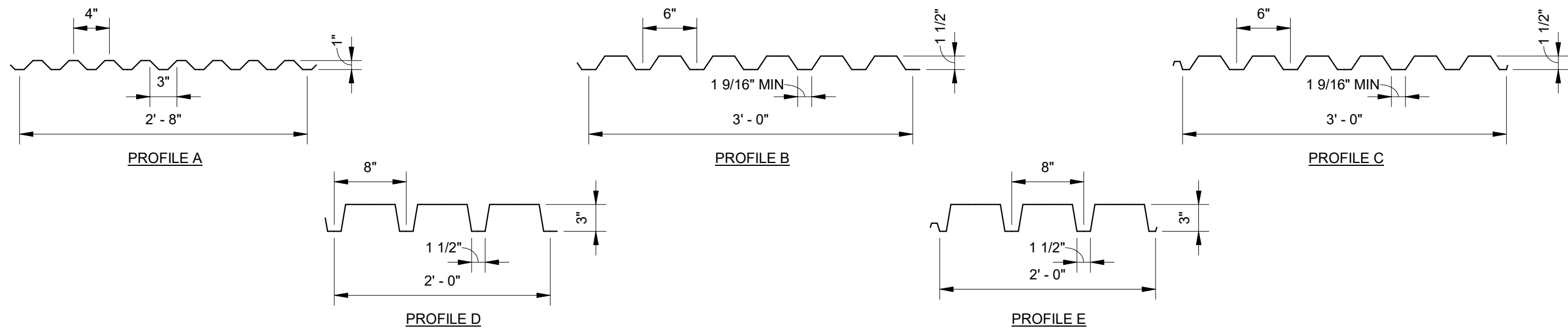
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1 TYPICAL DECK WELDING DETAIL
NOT TO SCALE

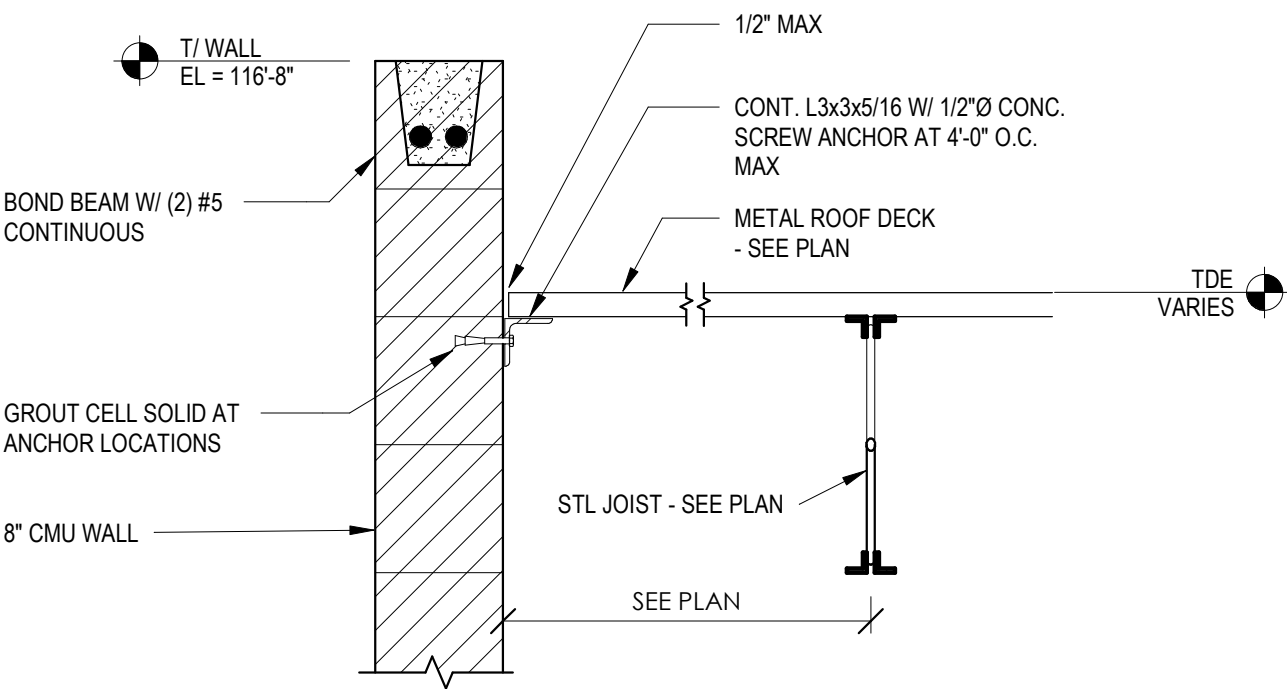


3 TYPICAL ROOF OPENING REINFORCING
NOT TO SCALE

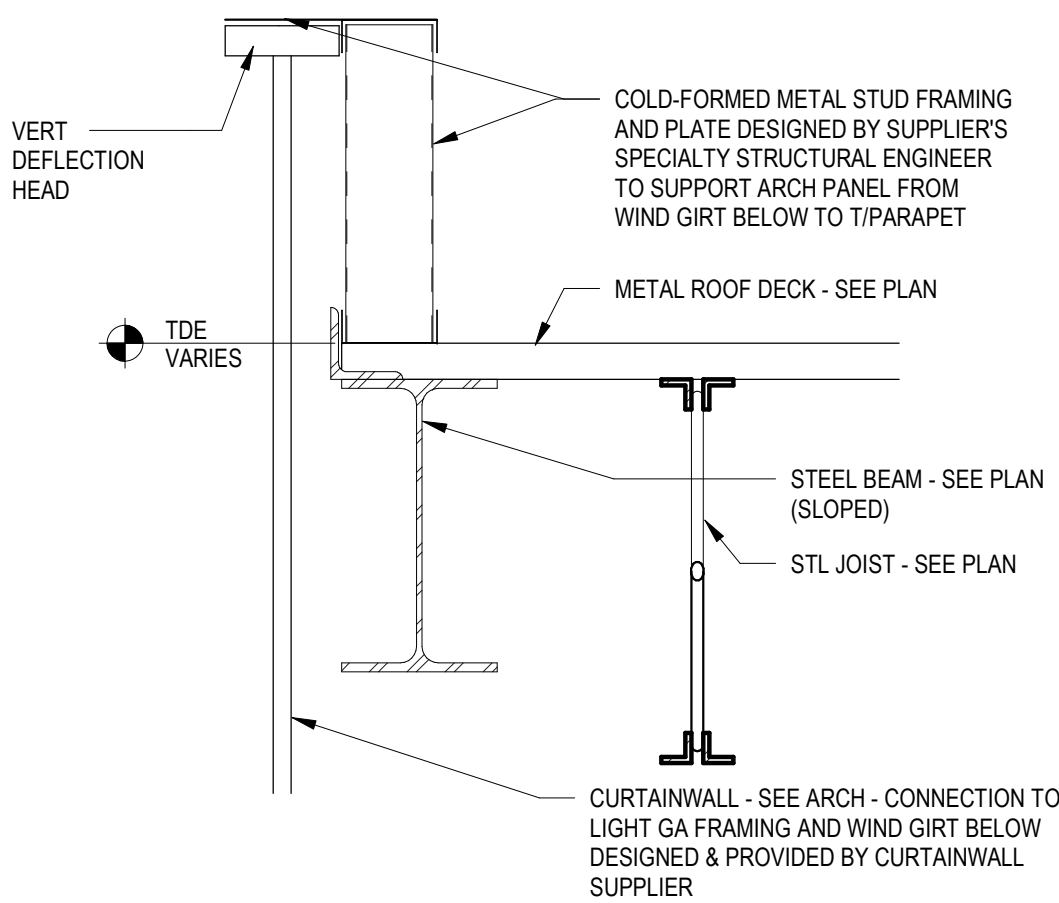


METAL ROOF DECK SCHEDULE																	
TYPE	SECTION PROPERTIES										CONNECTIONS						DIAPHRAGM CAPACITY (MIN) PLF
	DEPTH IN	PROFILE	GAUGE	DESIGN THICKNESS	I IN 1/FT	Sp IN 1/FT	Sn IN 1/FT	Fy KSI	ACOUSTICAL	FINISH	PERPENDICULAR SUPPORTS		PARALLEL SUPPORTS		SIDE LAPS		
											FASTENER	PATTERN	FASTENER	SPACING	FASTENER	NO. PER SPAN	
RD1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RD2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

2 METAL ROOF DECK SCHEDULE
NOT TO SCALE



4 TYPICAL METAL DECK TO WALL CONNECTION
NOT TO SCALE



5 EDGE OF DECK DETAIL
NOT TO SCALE



NOT FOR
CONSTRUCTION

Owner
City of Greeley
10th Street
Greeley, Colorado 80631
970.350.9777

Architect/Civil Engineer/Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

City of Greeley
GREELEY FIRE STATION #6

20TH ST, GREELEY CO 80634

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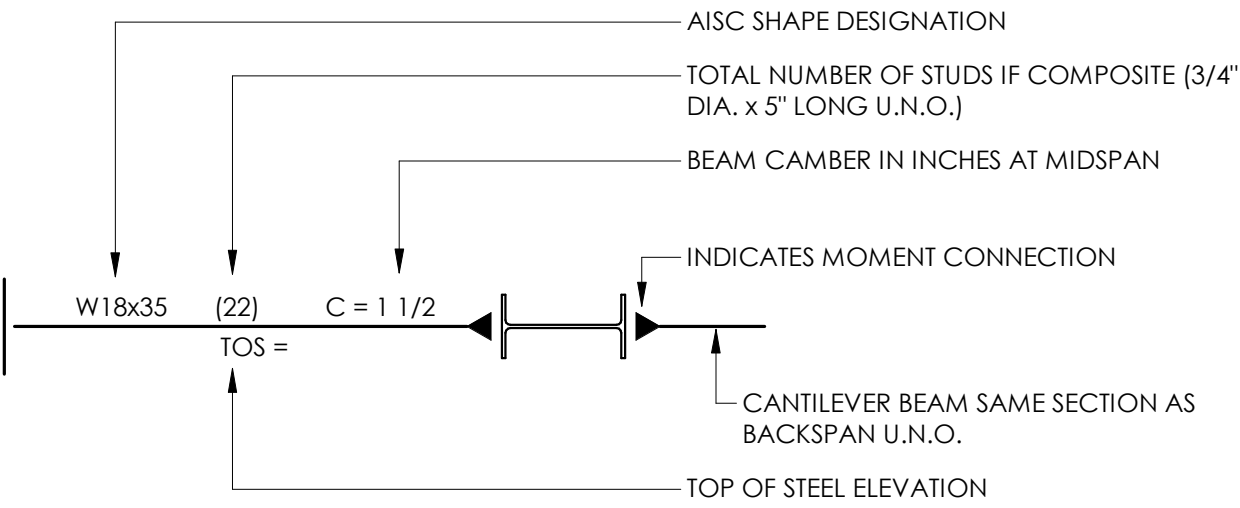
Issue Date
09/12/19

Revision Issue		
Rev. #	Description	Date

STEEL DECK DETAILS

S
520

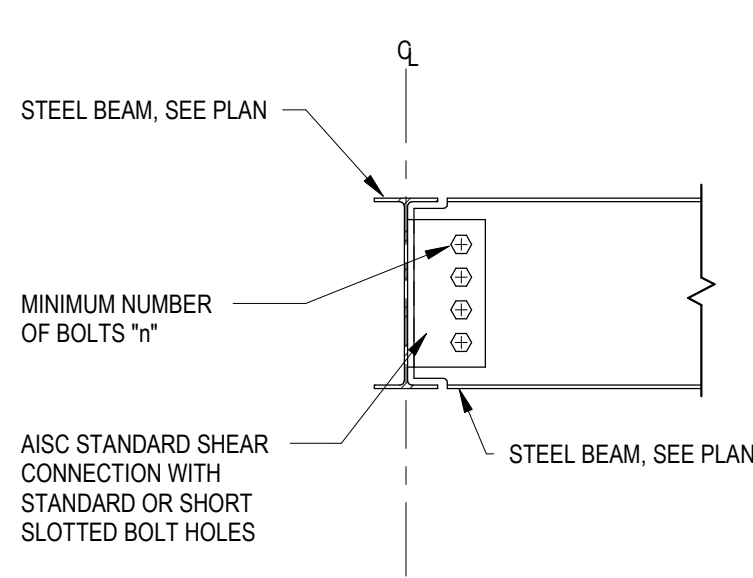
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- NOTES:
1. TYPICAL CONNECTIONS OF BEAM TO BEAM OR BEAM TO COLUMN SHALL BE SIMPLE SHEAR CONNECTIONS AS NOTED IN CONNECTION SCHEDULE UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
 2. IN A MOMENT CONNECTION, THE BEAM WEB SHEAR CONNECTION SHALL BE WELDED OR SLIP CRITICAL BOLTED CONNECTION. SEE DETAIL J/S7.01 FOR TYPICAL MOMENT CONNECTION.
 3. WHERE NO REACTION IS NOTED ON THE DRAWINGS, PROVIDE A CONNECTION FOR A REACTION DERIVED FROM THE TABLES OF ALLOWABLE LOADS ON BEAMS, PART 2 OF THE REFERENCED AISC STANDARD GIVEN BEAM, SPAN AND GRADE OF STEEL SPECIFIED MULTIPLIED BY 1.3 FOR NONCOMPOSITE BEAMS AND 2.0 FOR COMPOSITE BEAMS (SHEAR STUDS INDICATED ON PLAN).
 4. CONNECTION OF SKEWED BEAM TO COLUMN OR SKEWED BEAM TO BEAM MAY BE SINGLE PLATE "SHEAR TAB".

1 ELEMENT LEGEND

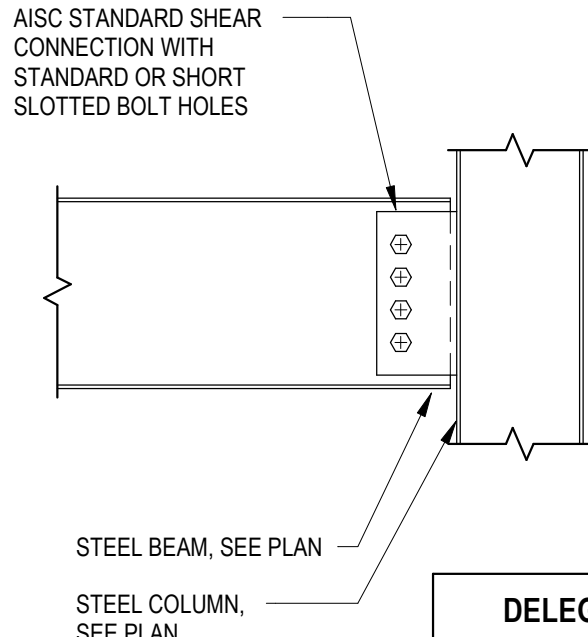
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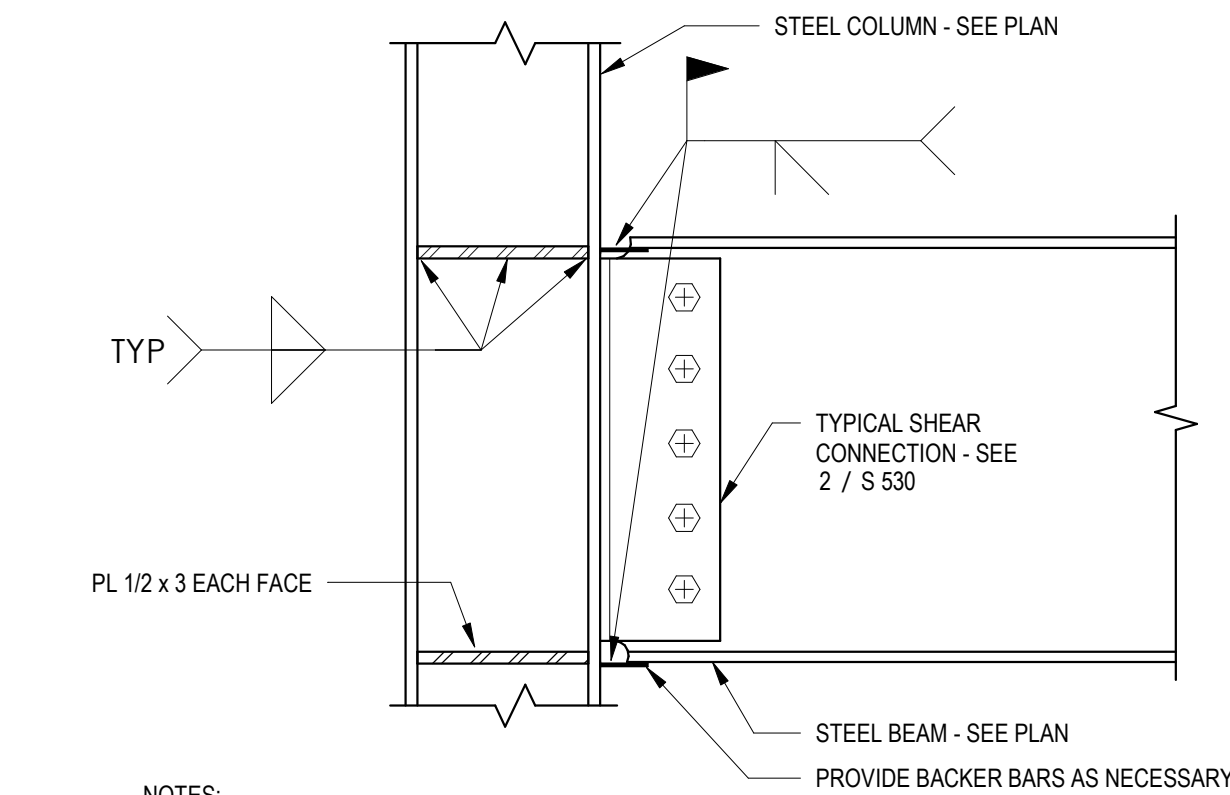
- NOTES:
1. ALL BOLTS SHALL BE 3/4" DIA. A325 TYPE N BEARING BOLTS UNLESS NOTED OTHERWISE.
 2. ALL CONNECTIONS ARE TO CONFORM TO THE 13TH EDITION OF THE AISC ASD OR LRFD MANUAL.
 3. ALL STEEL CONNECTIONS SHALL BE DESIGNED BY THE STEEL FABRICATOR'S LICENSED ENGINEER (DETAILER) FOR THIS PROJECT.
 4. DESIGN LOADS GIVEN ON PLAN OR IN THE DETAILS TAKE PRECEDENCE OVER THE LOADS SHOWN IN THIS DETAIL.

2 TYPICAL BEAM CONNECTION SCHEDULE

NOT TO SCALE



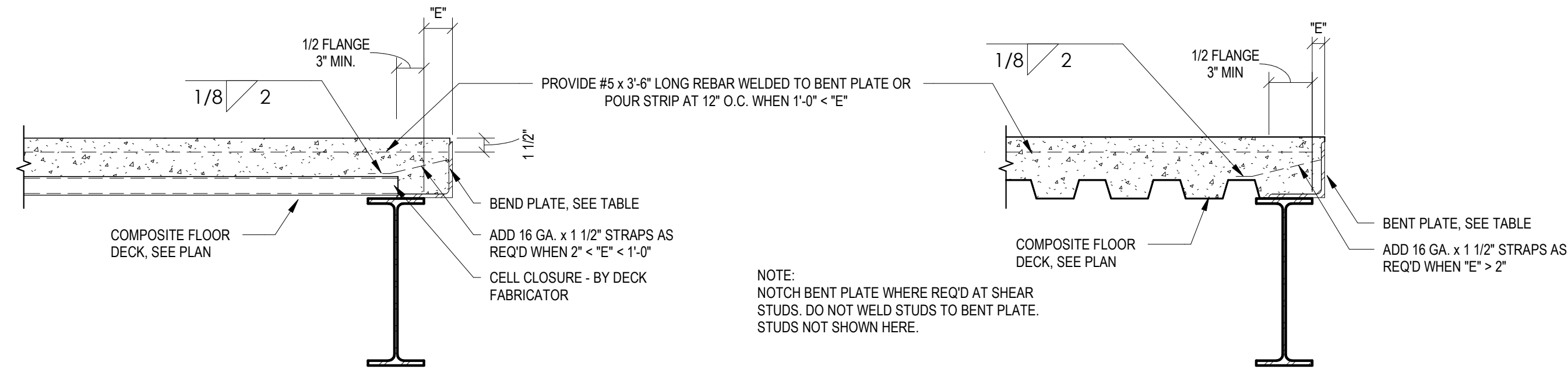
DELEGATED DESIGN BEAM TO BEAM OR COLUMN CONNECTION SCHEDULE			
W SHAPE BEAM SIZE	MIN. NUMBER OF BOLTS "n"	DESIGN SERVICE SHEAR FORCE	COMMENTS
W6	2	DL = 2k, LL = 6k	
W8, W10	2	DL = 4k, LL = 4k	
W12	3	DL = 6k, LL = 6k	
W14, W16	3	DL = 8k, LL = 10k	
W18	4	DL = 10k, LL = 16k	
W21	4	DL = 20k, LL = 26k	
W24	5	DL = 20k, LL = 26k	
W27	6	DL = 24k, LL = 26k	



- NOTES:
1. ALL CONNECTIONS ARE TO CONFORM TO THE 13TH EDITION OF THE AISC ASD OR LRFD MANUAL.
 2. ALL STEEL CONNECTIONS SHALL BE DESIGNED BY THE STEEL FABRICATOR'S LICENSED ENGINEER (DETAILER) FOR THIS PROJECT.

3 TYPICAL MOMENT CONNECTION DETAIL

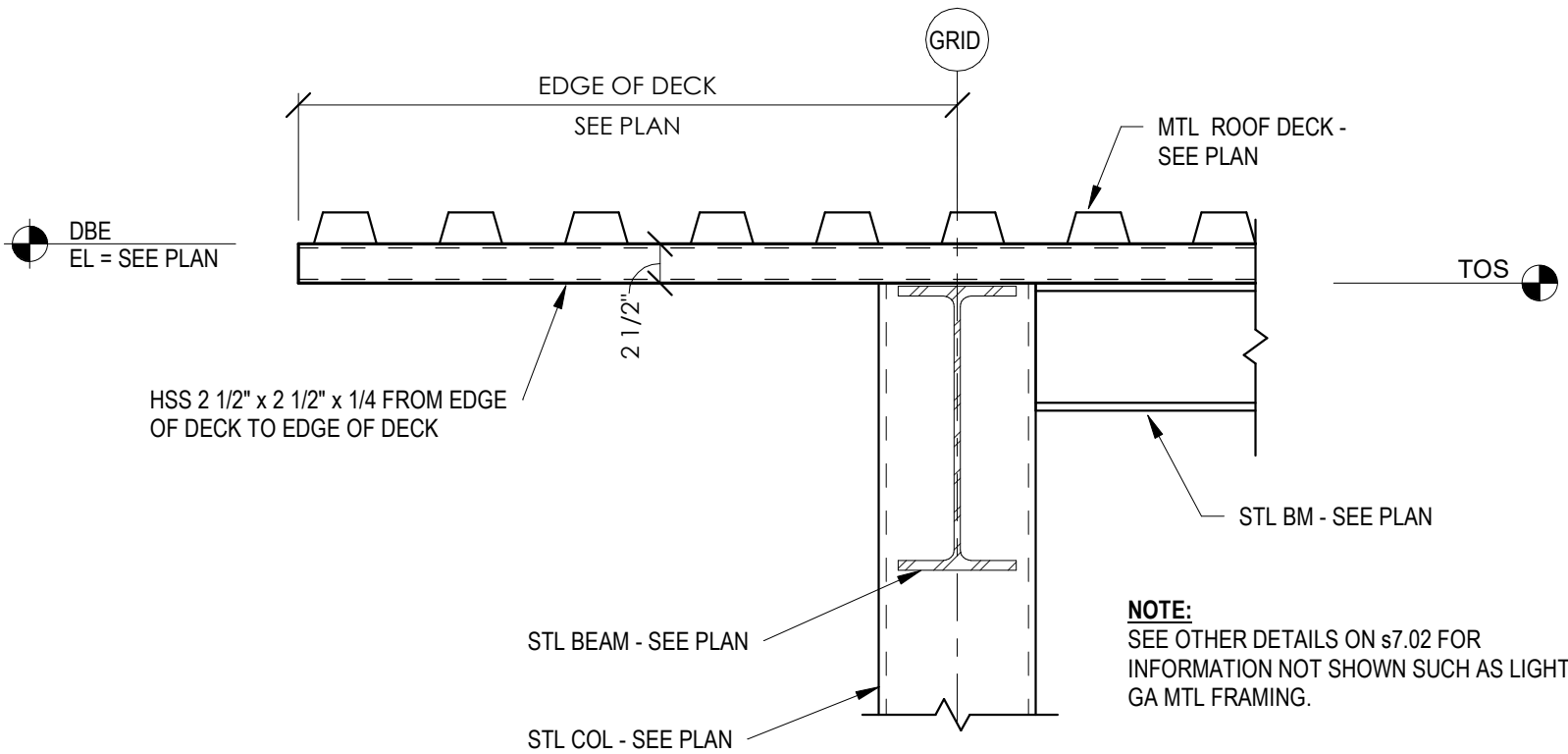
NOT TO SCALE



BENT PLATE TABLE	
MAXIMUM "E"	PLATE THICKNESS
0' - 9"	3/16"
1' - 3"	1/4"
1' - 9"	5/16"
2' - 3"	3/8"

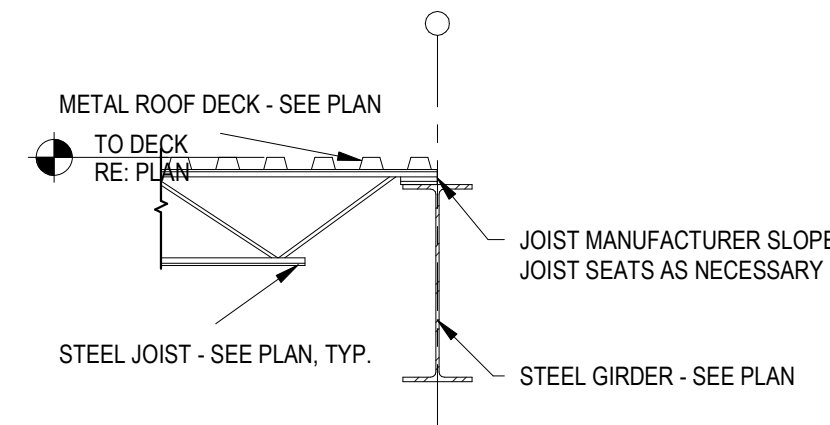
4 TYPICAL SLAB EDGE DETAILS

NOT TO SCALE



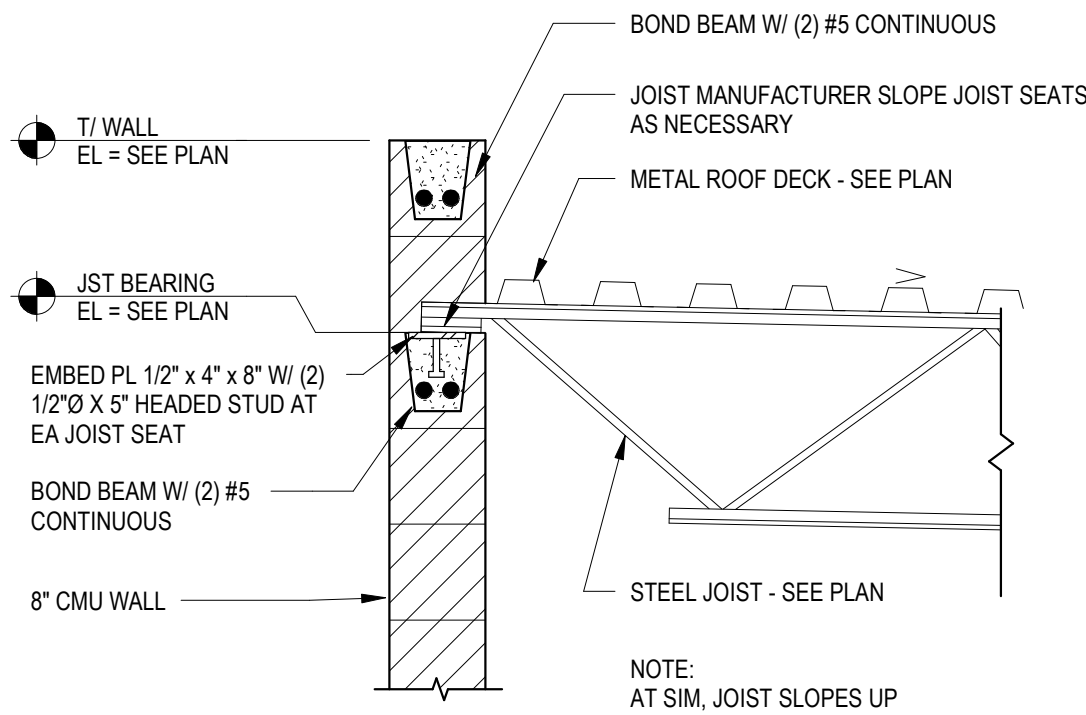
7 DECK EXTENSION SUPPORT AT BEAM

NOT TO SCALE



6 JOIST TO GIRDER CONNECTION

NOT TO SCALE



5 TYPICAL JOIST TO WALL CONNECTION

NOT TO SCALE

NOT FOR CONSTRUCTION

Owner
City of Greeley
10th Street
Greeley, Colorado 80631
970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHV Design
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

City of Greeley
GREELEY FIRE STATION #6
20TH ST., GREELEY CO 80634

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STEEL FRAMING DETAILS

S
530

BAR SIZE	MIN BAR SPACING (INCH)	DEVELOPMENT LENGTH			COMPRESSION LAP SPLICE (LCS)	TENSION LAP SPLICE (LTS)		
		f _c (PSI)				f _c (PSI)		
		4000	5000	6000		4000	5000	6000
#3	1.875	15	13	12	12	19	17	16
#4	2.000	19	17	16	15	25	23	21
#5	2.125	24	22	20	19	31	28	26
#6	2.250	29	26	24	23	37	34	31
#7	2.375	42	38	34	27	54	49	45
#8	2.500	48	43	39	30	62	56	51
#9	2.875	54	48	44	34	70	63	57
#10	3.250	61	54	50	39	79	71	64
#11	3.625	67	60	55	43	87	78	71

NOTES:

- TABULATED VALUES ARE PER ACI 318-14 REQUIREMENTS FOR NORMAL WEIGHT CONCRETE. THE VALUES ON THIS SHEET DO NOT APPLY TO LIGHTWEIGHT CONCRETE
- SEE TYPICAL DETAILS FOR CONCRETE COVER
- MINIMUM BAR SPACING IS MEASURED CENTER TO CENTER OF BAR
- WHERE ACTUAL CONDITIONS DIFFER FROM THE CLEAR COVER SHOWN ON THE TYPICAL DETAILS OR DIFFER FROM PROVIDED SCHEDULED BAR SIZE, MINIMUM SPACING AND/OR f_c, LENGTHS SHALL BE ADJUSTED ONLY WITH THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD
- TABULATED VALUES ARE FOR NON-EPOXY COATED REINFORCEMENT. FOR EPOXY COATED REINFORCEMENT MULTIPLY VALUES BY 1.3 FOR "TOP BARS" AND 1.5 FOR ALL OTHER REINFORCEMENT
- WHERE BARS OF DIFFERENT SIZES ARE LAP SPICED IN TENSION, THE LAP LENGTH SHALL BE THE LAP SPLICE LENGTH (LTS) OF THE SMALLER BAR
- WHERE BARS OF DIFFERENT SIZES ARE LAP SPICED IN COMPRESSION, THE COMPRESSION LAP LENGTH (LCS) SHALL BE THE COMPRESSION LAP SPLICE LENGTH (LCS) OF THE SMALLER BAR
- "TOP BARS" ARE DEFINED PER ACI AS HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE DEVELOPMENT LENGTH OR SPLICE. "OTHER BARS" ARE ALL BARS FOR WHICH THIS DOES NOT APPLY
- FOUNDATION WALL LAP SPLICES ARE BASED ON A MINIMUM 2 INCH CLEAR COVER. IF CLEAR COVER IS REDUCED ON INTERIOR FACE, LAP SPLICES MUST BE REVISED

1 CONCRETE LAP SPLICE SCHEDULE1

NOT TO SCALE

2 STANDARD HOOK DETAILS

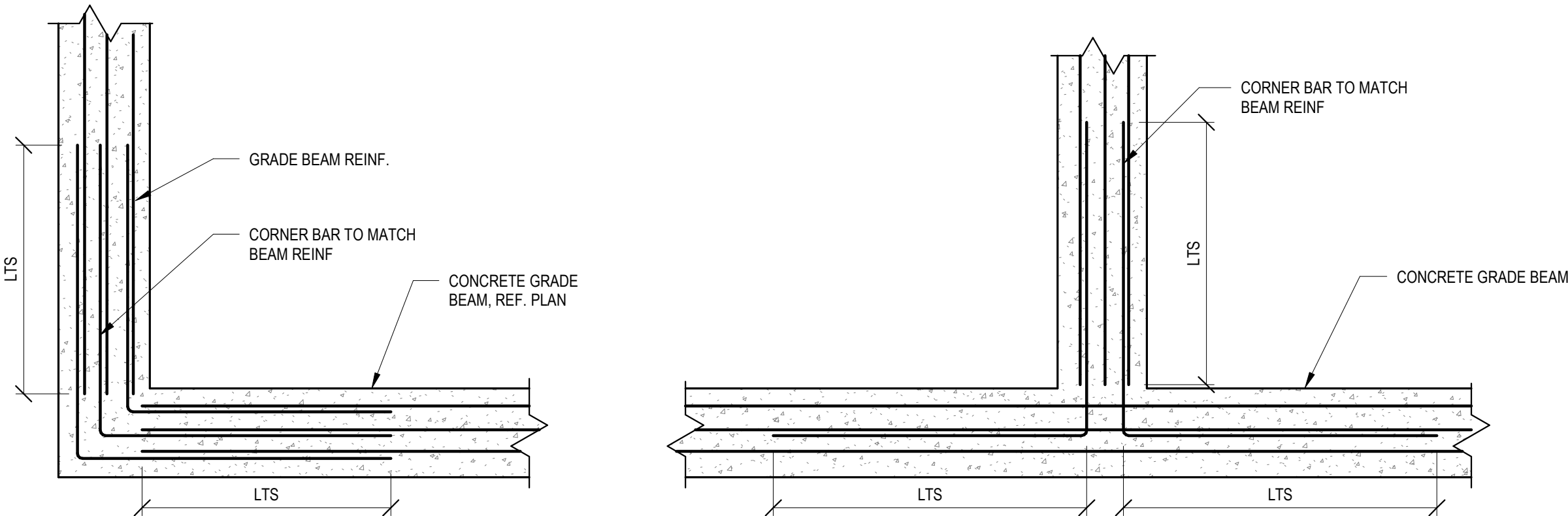
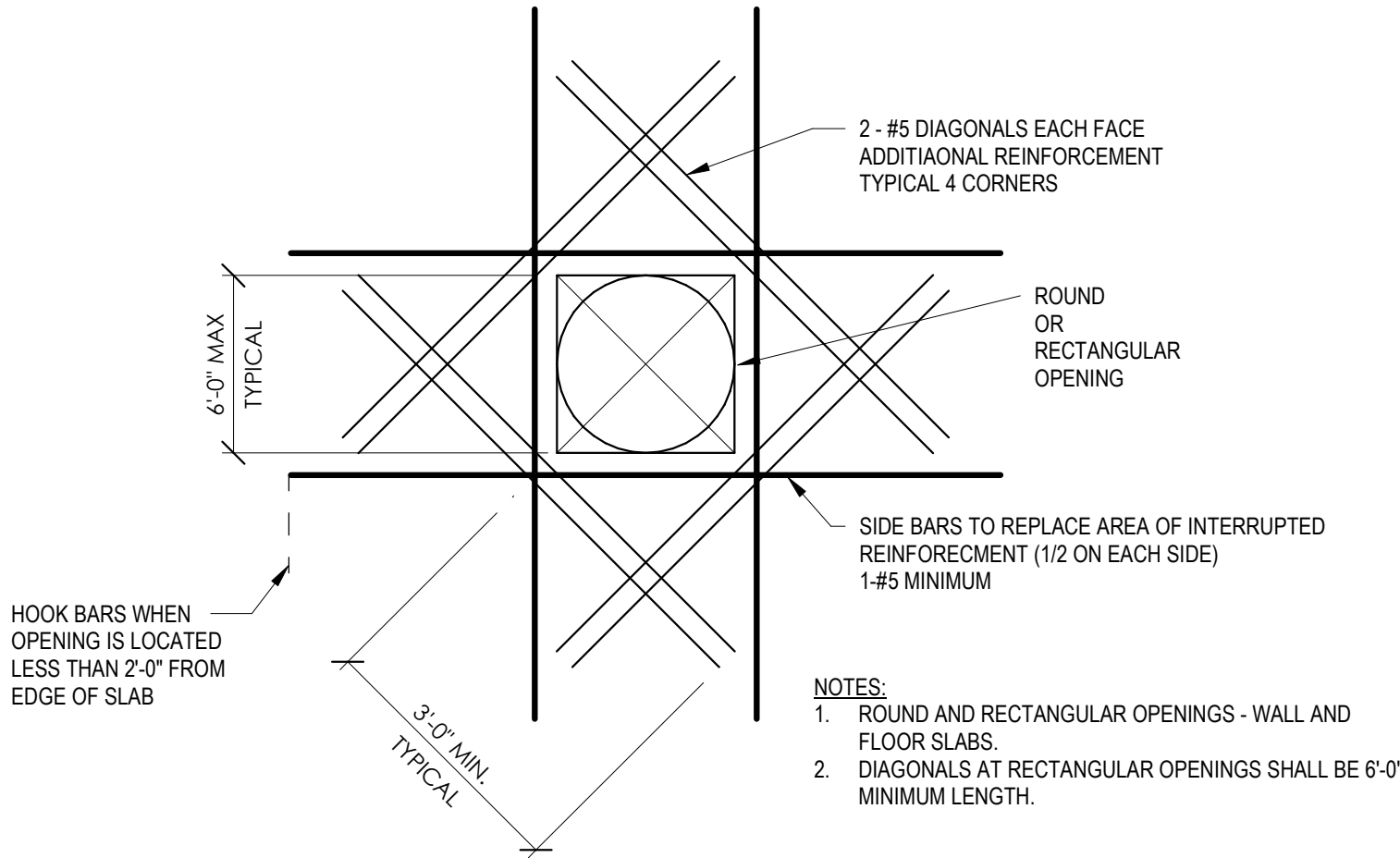
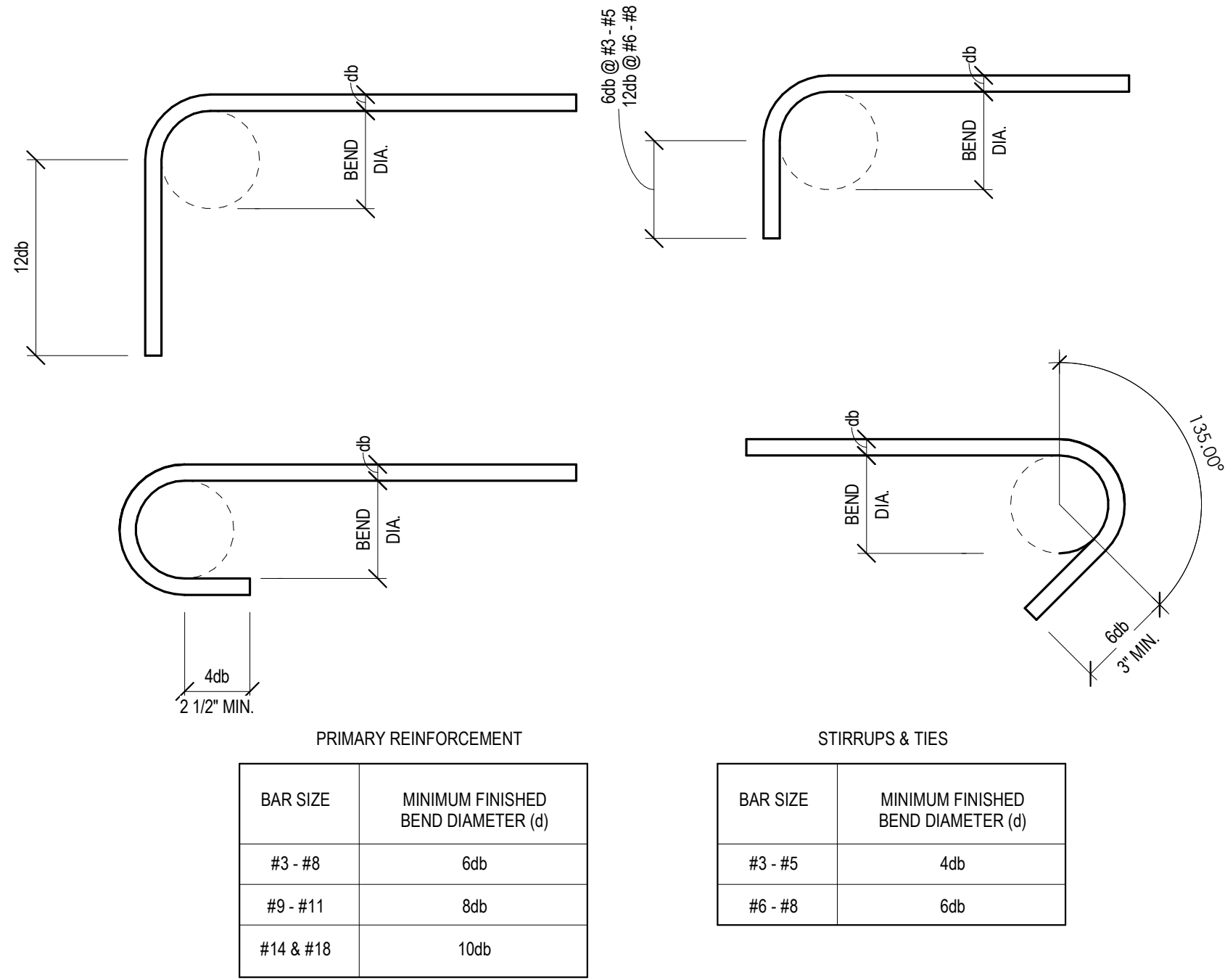
NOT TO SCALE

3 OPENING REINFORCEMENT DETAIL

NOT TO SCALE

4 GRADE BEAM/FND WALL CORNER REINF

NOT TO SCALE



Owner
City of Greeley
10th Street
Greeley, Colorado 80631
970.350.9777

Architect/Civil Engineer/Structural

Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect

DHM Design
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer

The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer

CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

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CODE SUMMARY

GOVERNING CODE:

CITY OF GREELEY
2015 INTERNATIONAL BUILDING CODE (IBC)
2015 INTERNATIONAL MECHANICAL CODE (IMC)
2009 ENERGY CONSERVATION CODE (IECC)
2015 INTERNATIONAL PLUMBING CODE (IPC)
2015 INTERNATIONAL FUEL GAS CODE (IFGC)
2017 NATIONAL ELECTRICAL CODE (NEC)
2015 INTERNATIONAL FIRE CODE (IFC)

BUILDING DATA:

2-STORY
GROSS SQ. FT: 18,530 SF
SPRINKLED: YES
FIRE ALARM: YES
CONSTRUCTION TYPE: IIB

(CHAPTER 3) USE & OCCUPANCY CLASSIFICATIONS

GROUP A-3
COMMUNITY/LECTURE HALL, FITNESS SPACE
GROUP B BUSINESS
OFFICES, RESTROOMS, IT, ACCESSORY USE AREAS
GROUP R-2
DWELLING UNITS, GATHERING SPACE, RESTROOMS, KITCHEN
GROUP S-2 LOW-HAZARD STORAGE
APPARATUS BAYS AND ACCESSORY USE AREAS

(TABLE 503): ALLOWABLE HEIGHT & AREA

TYPE IIB, SPRINKLED
ALLOWABLE HEIGHT: 75'-0" MAX.
ACTUAL HEIGHT: 66'-10"
GROUP A-3
STORIES ALLOWED: 3 ALLOWABLE AREA: 38,000 SF MAX.
GROUP B
STORIES ALLOWED: 4 ALLOWABLE AREA: 92,000 SF MAX.
GROUP R-2
STORIES ALLOWED: 5 ALLOWABLE AREA: 64,000 SF MAX.
GROUP S-2
STORIES ALLOWED: 4 ALLOWABLE AREA: 104,000 SF MAX.
ACTUAL
STORIES: 2 AREA: 18,530 SF

(508.3) NON-SEPARATED OCCUPANCIES

NONSEPARATED OCCUPANCIES SHALL BE INDIVIDUALLY CLASSIFIED. THE MOST RESTRICTIVE PROVISIONS OF CHAPTER 9 THAT APPLY TO THE NONSEPARATED OCCUPANCIES SHALL APPLY TO THE TOTAL NONSEPARATED OCCUPANCY AREA.

THE ALLOWABLE BUILDING AREA AND HEIGHT OF THE BUILDING SHALL BE BASED ON THE MOST RESTRICTIVE ALLOWANCES FOR THE OCCUPANCY GROUPS UNDER CONSIDERATION FOR THE TYPE OF CONSTRUCTION OF THE BUILDING IN ACCORDANCE WITH SECTION 903.1.

(TABLE 601): FIRE RESISTANCE RATINGS FOR BUILDING ELEMENTS

TYPE IIB:
PRIMARY STRUCTURE FRAME: 0 HOURS
EXTERIOR BEARING WALLS: 0 HOURS
INTERIOR BEARING WALLS: 0 HOURS
FLOOR ASSEMBLY: 0 HOURS
ROOF ASSEMBLY: 0 HOURS
FIRE DOORS: 45 MIN.

(708.3) FIRE RESISTANCE RATINGS

DWELLING UNIT AND SLEEPING UNIT SEPARATIONS IN BUILDINGS OF TYPE IIB, IIBB AND VB CONSTRUCTION SHALL HAVE FIRE-RESISTANCE RATINGS OF NOT LESS THAN 1/2 HOUR IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.1.1

(903) AUTOMATIC SPRINKLER SYSTEM

YES

(906.3) FIRE EXTINGUISHERS FOR CLASS A FIRE HAZARDS

MIN. RATED SINGLE EXTINGUISHER: 2-A
MAX. FLOOR AREA PER UNIT OF A: 3,000 SF
MAX. FLOOR AREA FOR EXTINGUISHER: 11,250 SF
MAX. DISTANCE OF TRAVEL TO EXTINGUISHER: 75 FT.

(906.4) COOKING GREASE FIRES

FIRE EXTINGUISHER PROVIDED FOR THE PROTECTION OF COOKING GREASE FIRES SHALL BE AN APPROVED TYPE OF COMPATIBLE WITH AUTOMATIC FIRE EXTINGUISHING SYSTEM AGENT AND ACCORDANCE WITH SECTION 904.12.5.

(1004.1) OCCUPANT LOADS

FIRST FLOOR:
GROUP A-3: AREA: 735 SF # OF OCCUPANTS: 49
GROUP B: AREA: 2,972 SF # OF OCCUPANTS: 47
GROUP R-2: AREA: 4,756 SF # OF OCCUPANTS: 31
GROUP S-2: AREA: 8,594 SF # OF OCCUPANTS: 34

SECOND:
GROUP B: AREA: 1,053 SF # OF OCCUPANTS: 21

TOTAL OCCUPIED AREA: 18,110
TOTAL OCCUPANT LOAD: 182

(1006.2.1) COMMON PATH OF TRAVEL:

GROUP A: 75'-0" WITH SPRINKLERS
GROUP B: 100'-0" WITH SPRINKLERS
GROUP R: 125'-0" WITH SPRINKLERS
GROUP S: 100'-0" WITH SPRINKLERS

(1017.2) EXIT ACCESS TRAVEL DISTANCE TO STAIR ENCLOSURE OR EXTERIOR DOOR:

GROUP A-3: 250'-0" WITH SPRINKLERS
GROUP B: 300'-0" WITH SPRINKLERS
GROUP R-2: 250'-0" WITH SPRINKLERS
GROUP S-2: 400'-0" WITH SPRINKLERS

FIXTURE REQUIREMENTS:

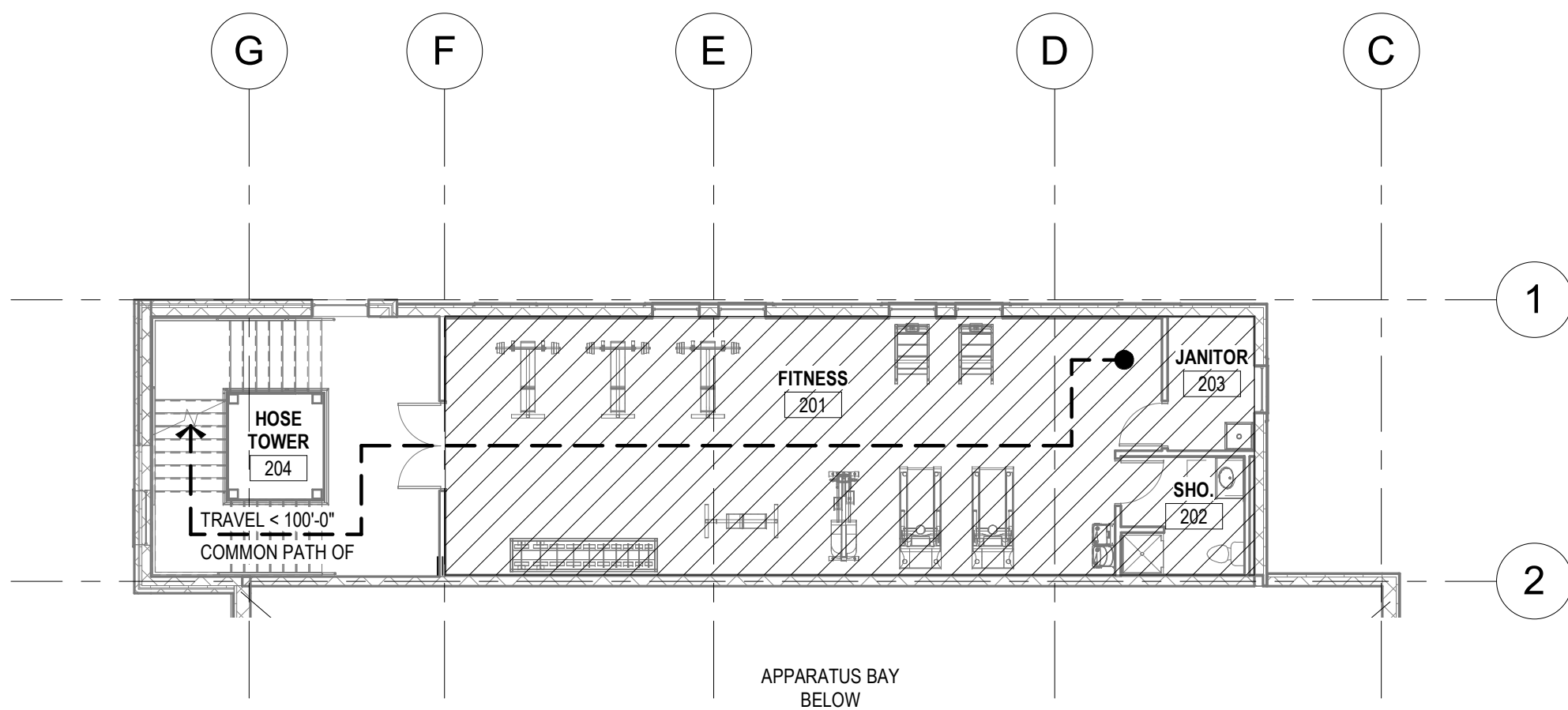
OCCUPANCY TYPE & # OF OCCUPANTS	REQ. W.C.	PROV. W.C.	REQ. LAV.	PROV. LAV.	REQ. SHWR.
A-3: 49/2 = 25 MEN	1/125 = 1	SEE B	1/200 = 1	SEE B	0
25 WOMEN	1/65 = 1	SEE B	1/200 = 1	SEE B	0
B: 68/2 = 34 MEN	1/25 = 2	2	1/40 = 1	1	0
34 WOMEN	1/25 = 2	2	1/40 = 1	1	0
* UNISEX SHOWER ROOM W/ W.C. & LAV. IS PROVIDED AT FITNESS					
R-2: 31 = 31 OCC*	1/10 = 3	7	1/10 = 7	7	1/100
S-2: 34/2 = 17 MEN	1/100 = 1	1	1/100 = 1	1	
17 WOMEN	1/100 = 1	1	1/100 = 1	1	

(1) KITCHEN SINK REQUIRED/ (1) PROVIDED IN R-2 OCCUPANCY
(1) SERVICE SINK IS PROVIDED IN JANITOR ROOM ON SECOND FLOOR
* SEPARATE MENS AND WOMENS PLUMBING FIXTURES ARE NOT REQUIRED FOR R-2 AND S-2 OCCUPANCIES

CODE LEGEND

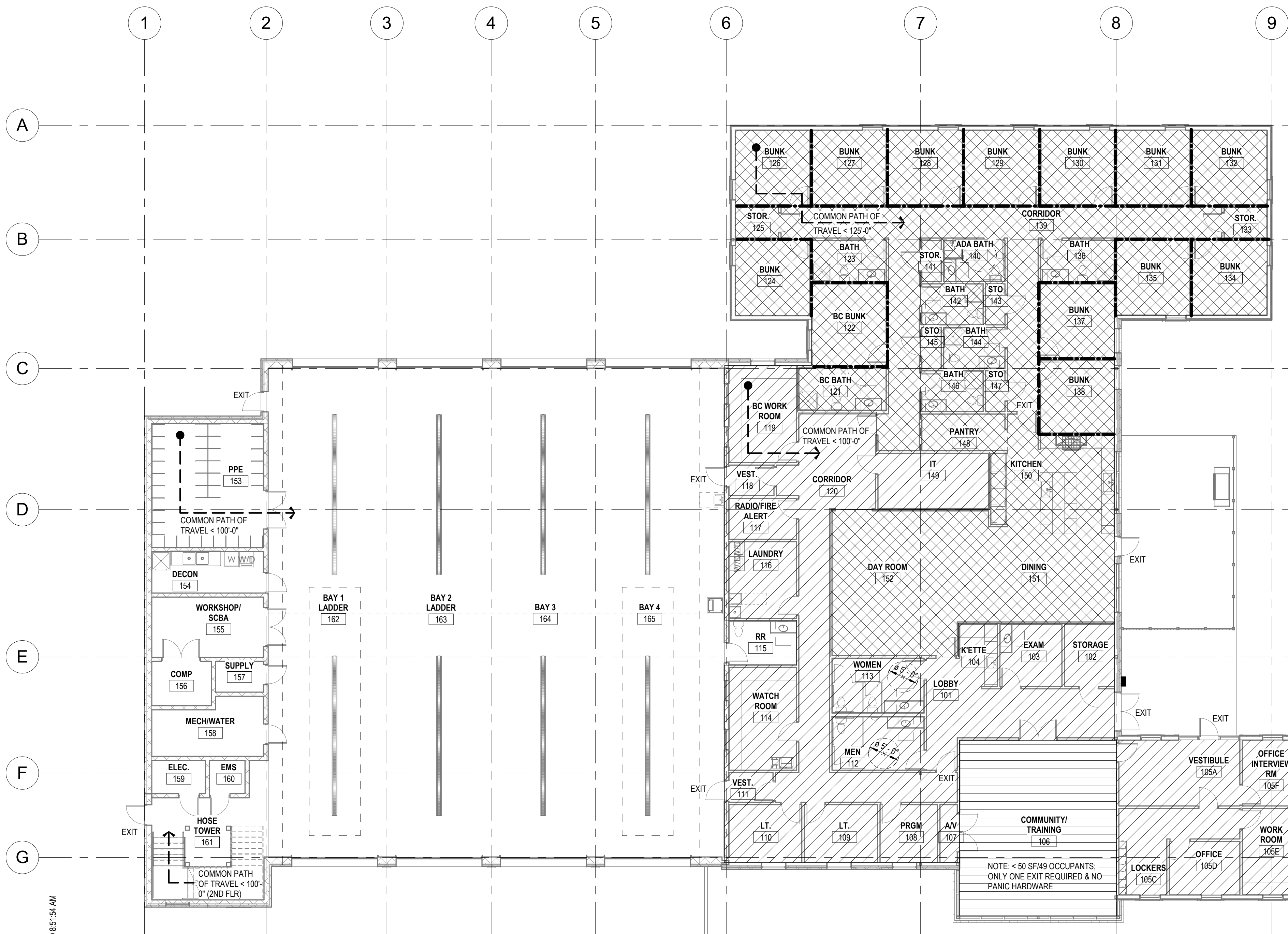
GROUP B OCCUPANCY
GROUP R-2 OCCUPANCY
GROUP S-2 OCCUPANCY
GROUP A-3 OCCUPANCY
EXIT ACCESS
EGRESS PATH
1/2-HOUR FIRE SEPARATION
PORTABLE FIRE EXTINGUISHER CABINET
PORTABLE BRACKET MOUNTED FIRE EXTINGUISHER
KNOX BOX

OCCUPANCY SCHEDULE - GROSS						
wt	ROOM NAME	AREA	OCC.	LOAD FACTOR	OCC. LOAD	NOTES
106	COMMUNITY TRAINING	735 SF	A-3	15 SF	49.0	
A-3: 1						
101	LOBBY	315 SF	B	15 SF	21.1	
103	EXAM	110 SF	B	100 SF	1.1	
104	KETTE	69 SF	B	100 SF	0.7	
105A	VESTIBULE	225 SF	B	100 SF	2.3	
105B	EVIDENCE LOCKER	Not Placed	B	100 SF		
105C	LOCKERS	183 SF	B	100 SF	1.8	
105D	OFFICE	110 SF	B	100 SF	1.1	
105E	WORK ROOM	151 SF	B	100 SF	1.5	
105F	OFFICE INTERVIEW RM	116 SF	B	100 SF	1.2	
108	PRGM	97 SF	B	100 SF	1.0	
109	LT.	122 SF	B	100 SF	1.2	
110	LT.	124 SF	B	100 SF	1.2	
111	VEST.	41 SF	B	100 SF	0.4	
112	MEN	131 SF	B	100 SF	1.3	
113	WOMEN	133 SF	B	100 SF	1.3	
114	WATCH ROOM	200 SF	B	100 SF	2.0	
118	VEST.	43 SF	B	100 SF	0.4	
119	BC WORK ROOM	189 SF	B	100 SF	1.9	
120	CORRIDOR	612 SF	B	100 SF	6.1	
201	FITNESS	916 SF	B	50 SF	18.3	
202	SHO.	71 SF	B	50 SF	1.4	
203	JANITOR	66 SF	B	300 SF	0.2	
B: 22		4026 SF			67.6	
116	LAUNDRY	150 SF	R-2	200 SF	0.8	
121	BC BATH	98 SF	R-2	200 SF	0.5	
122	BC BUNK	172 SF	R-2	120 SF	1.4	
123	BATH	88 SF	R-2	200 SF	0.4	
124	BUNK	162 SF	R-2	120 SF	1.3	
126	BUNK	161 SF	R-2	120 SF	1.3	
127	BUNK	157 SF	R-2	120 SF	1.3	
128	BUNK	157 SF	R-2	120 SF	1.3	
129	BUNK	157 SF	R-2	120 SF	1.3	
130	BUNK	156 SF	R-2	120 SF	1.3	
131	BUNK	156 SF	R-2	120 SF	1.3	
132	BUNK	160 SF	R-2	120 SF	1.3	
134	BUNK	160 SF	R-2	120 SF	1.3	
135	BUNK	156 SF	R-2	120 SF	1.3	
136	BATH	88 SF	R-2	200 SF	0.4	
137	BUNK	155 SF	R-2	200 SF	0.8	
138	BUNK	154 SF	R-2	120 SF	1.3	
139	CORRIDOR	742 SF	R-2	200 SF	3.7	
140	ADA BATH	67 SF	R-2	200 SF	0.3	
142	BATH	73 SF	R-2	200 SF	0.4	
144	BATH	73 SF	R-2	200 SF	0.4	
146	BATH	73 SF	R-2	200 SF	0.4	
150	KITCHEN	342 SF	R-2	200 SF	1.7	
151	DINING	402 SF	R-2	200 SF	2.0	
152	DAY ROOM	496 SF	R-2	200 SF	2.5	
R-2: 25		4756 SF			30.1	
102	STORAGE	91 SF	S-2	300 SF	0.3	
107	A/V	32 SF	S-2	300 SF	0.1	
115	RR	80 SF	S-2	100 SF	0.8	
117	RADIO/FIRE ALERT	82 SF	S-2	300 SF	0.3	
125	STOR.	41 SF	S-2	300 SF	0.1	
133	STOR.	40 SF	S-2	300 SF	0.1	
141	STOR.	25 SF	S-2	300 SF	0.1	
143	STO	25 SF	S-2	300 SF	0.1	
145	STO	25 SF	S-2	300 SF	0.1	
147	STO	25 SF	S-2	300 SF	0.1	
148	PANTRY	89 SF	S-2	300 SF	0.3	
149	IT	173 SF	S-2	300 SF	0.6	
153	PPE	396 SF	S-2	300 SF	1.3	
154	DECON	141 SF	S-2	300 SF	0.5	
155	WORKSHOP/ SCBA	198 SF	S-2	300 SF	0.7	
156	COMP	82 SF	S-2	300 SF	0.3	
157	SUPPLY	49 SF	S-2	300 SF	0.2	
158	MECHWATER	175 SF	S-2	300 SF	0.6	
159	ELEC.	57 SF	S-2	300 SF	0.2	
160	EMS	30 SF	S-2	300 SF	0.1	
161	HOSE TOWER	347 SF	S-2	100 SF	3.5	
162	BAY 1 LADDER	1583 SF	S-2	300 SF	5.3	
163	BAY 2 LADDER	1371 SF	S-2	300 SF	4.6	
164	BAY 3	1371 SF	S-2	300 SF	4.6	
165	BAY 4	1718 SF	S-2	300 SF	5.7	
204	HOSE TOWER	318 SF	S-2	100 SF	3.2	
S-2: 26		8573 SF			33.5	
Grand total		18090 SF			180.3	



2 CODE PLAN-02

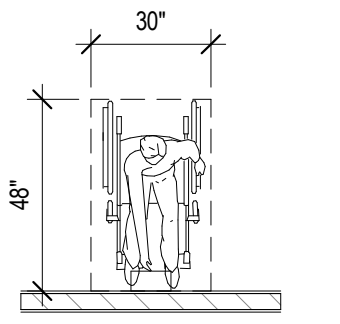
A 001 3/32" = 1'-0"



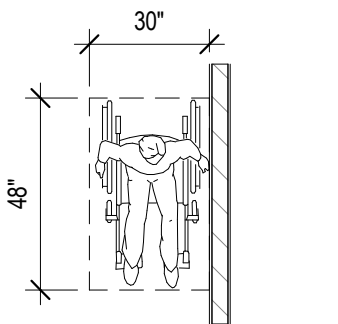
1 CODE PLAN-01

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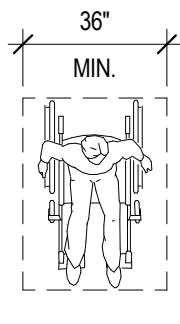
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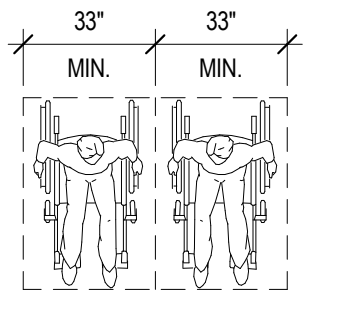
FORWARD APPROACH



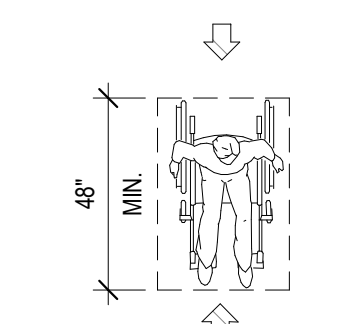
PARALLEL APPROACH



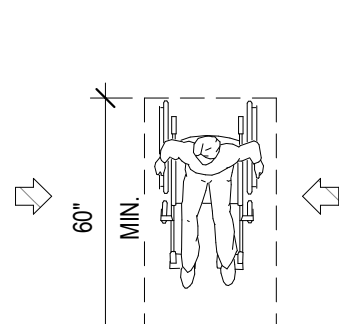
(a) SINGLE SPACE



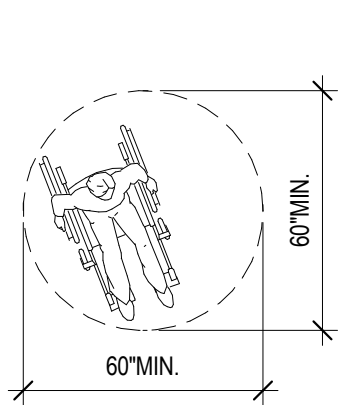
(b) MULTIPLE ADJACENT SPACES



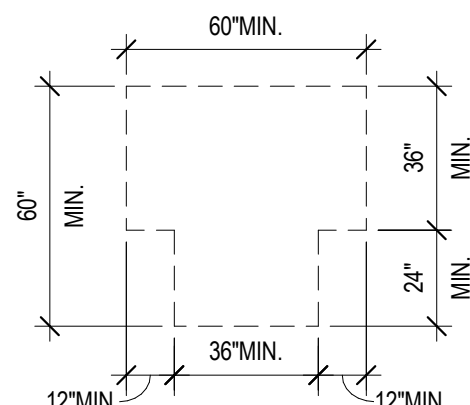
(a) FRONT OR REAR ACCESS



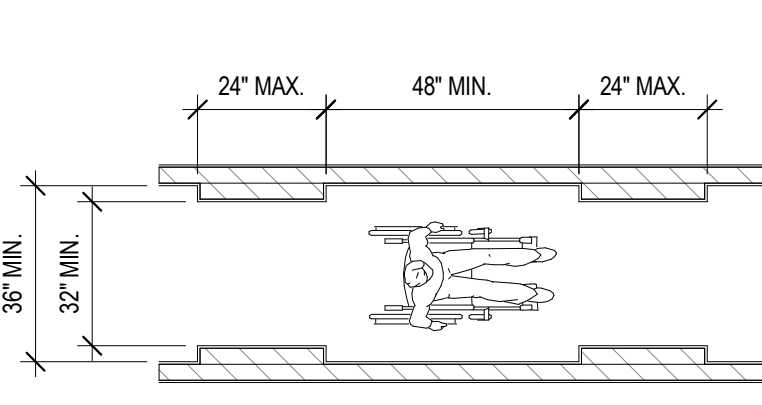
(b) SIDE ACCESS



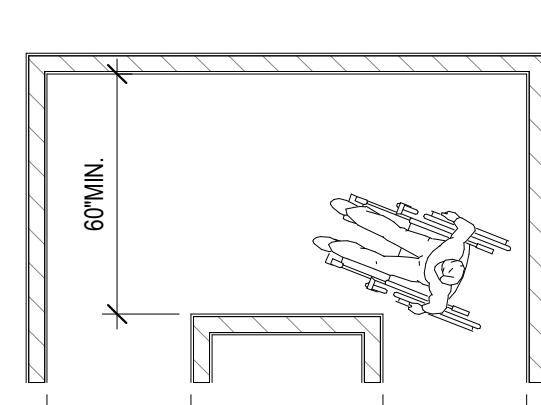
(a) CIRCULAR
SIZE OF WHEELCHAIR TURNING SPACE



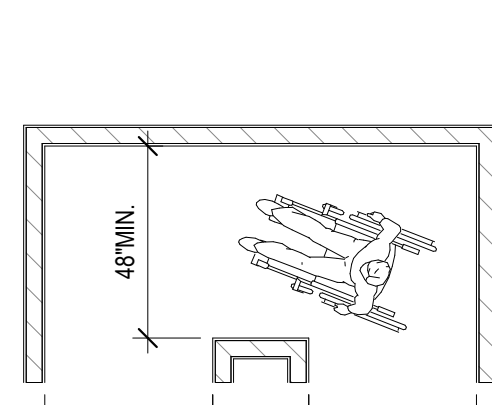
(b) T-SHAPED



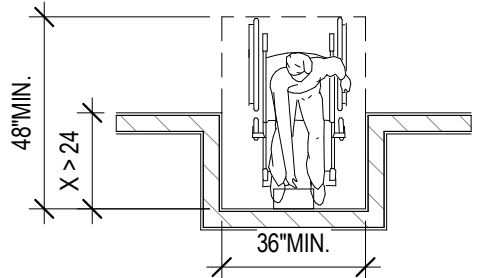
CLEAR WIDTH OF AN ACCESSIBLE ROUTE



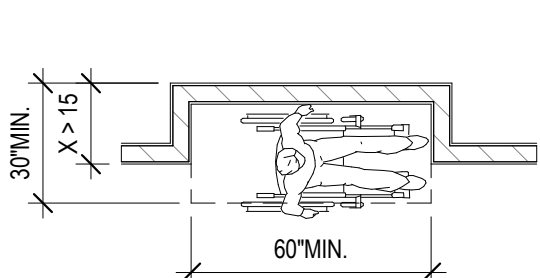
ACCESSIBLE ROUTE FOR 180 DEGREE TURN



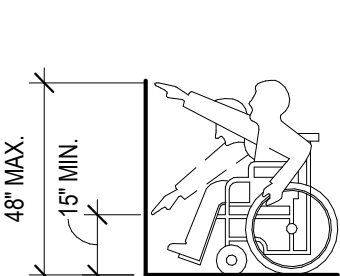
CLEAR WIDTH AT TURN



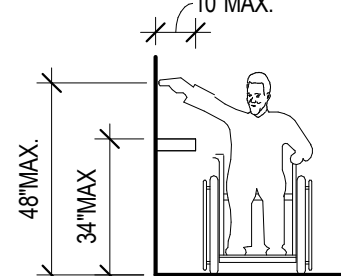
(a) FORWARD APPROACH



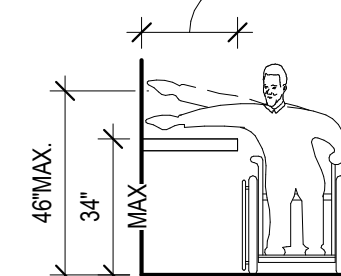
(b) PARALLEL APPROACH



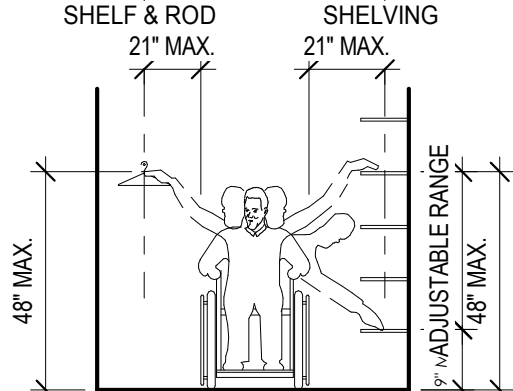
UNOBSTRUCTED FORWARD REACH



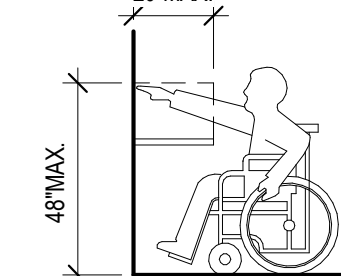
OBSTRUCTED HIGH SIDE REACH



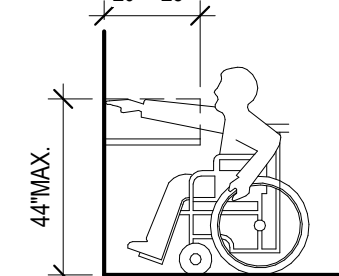
OBSTRUCTED HIGH SIDE REACH



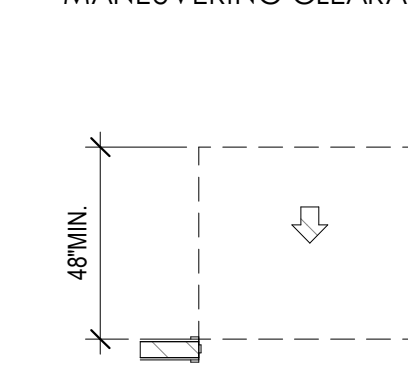
STORAGE SHELVES @ CLOSETS



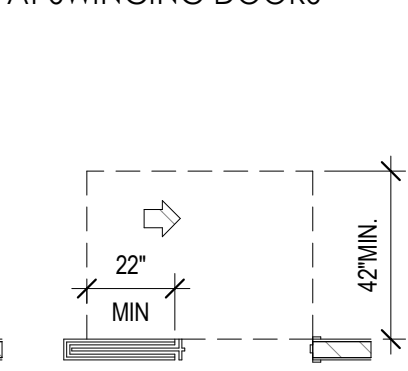
(a) FORWARD REACH OVER AN OBSTRUCTION



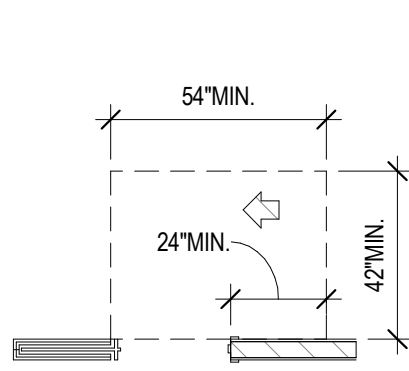
(b)



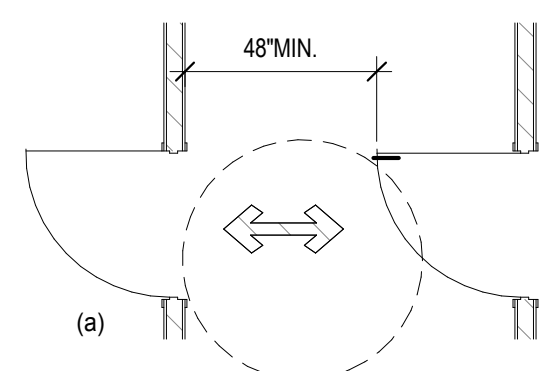
(a) FRONT APPROACH



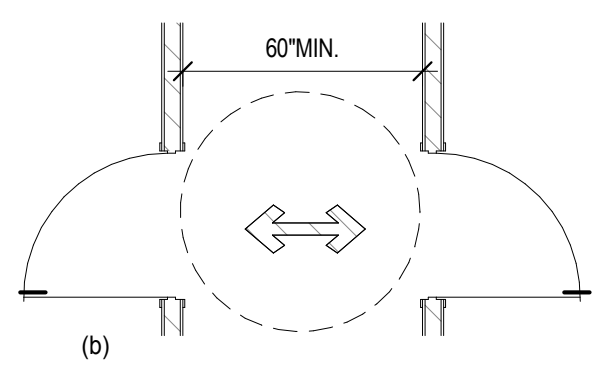
(b) POCKET OR HINGE APPROACH



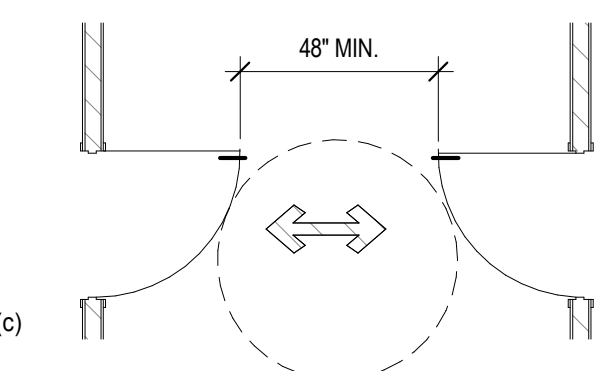
(c) STOP OR LATCH APPROACH



(a)

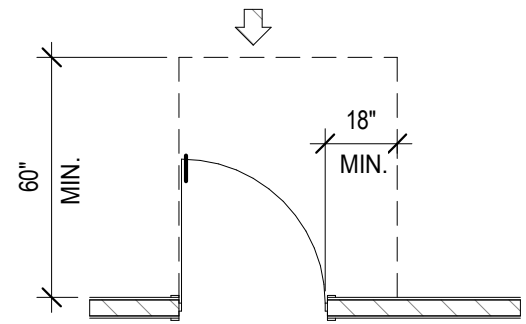


(b)

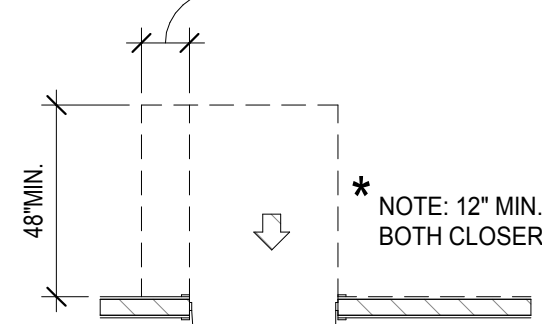


(c)

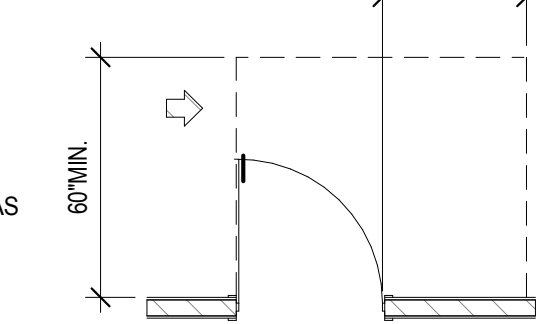
MINIMUM CLEAR WIDTH FOR TWO WHEELCHAIRS



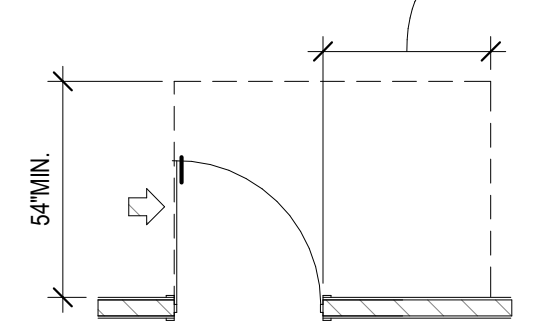
(a) FRONT APPROACH, PULL SIDE



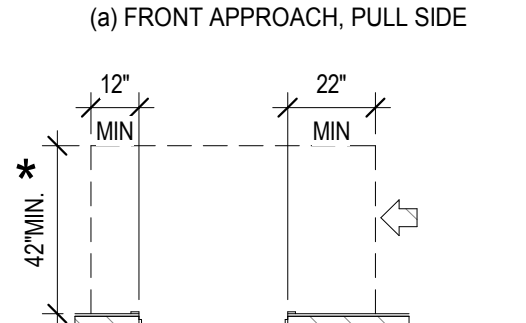
(b) FRONT APPROACH, PUSH SIDE



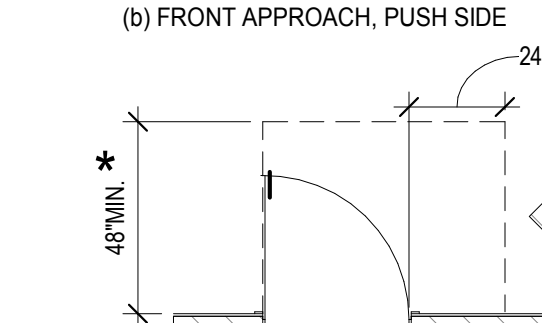
(c) HINGE APPROACH, PULL SIDE



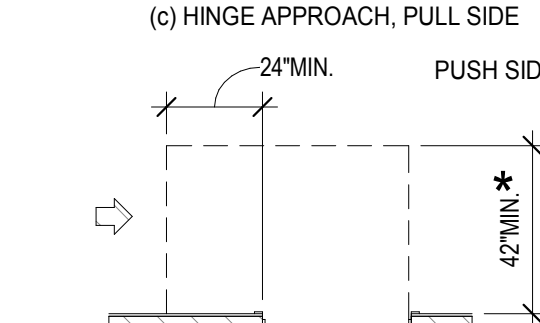
(d) HINGE APPROACH PULL SIDE



(e) HINGE APPROACH, PUSH SIDE



(f) LATCH APPROACH, PULL SIDE



(g) LATCH APPROACH, PUSH SIDE

MANEUVERING CLEARANCE AT SWINGING DOORS

MANEUVERING CLEARANCE AT SLIDING AND SWINGING DOORS

TWO DOORS IN SERIES

MANEUVERING CLEARANCES

NOT FOR
CONSTRUCTION

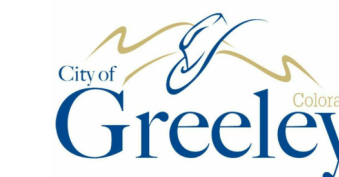
Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

City of Greeley
GREELEY FIRE STATION #6
10603 20TH ST, GREELEY COLORADO 80634



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SEH Project
Checked By
Drawn By

150268
CS
CS/UEBB

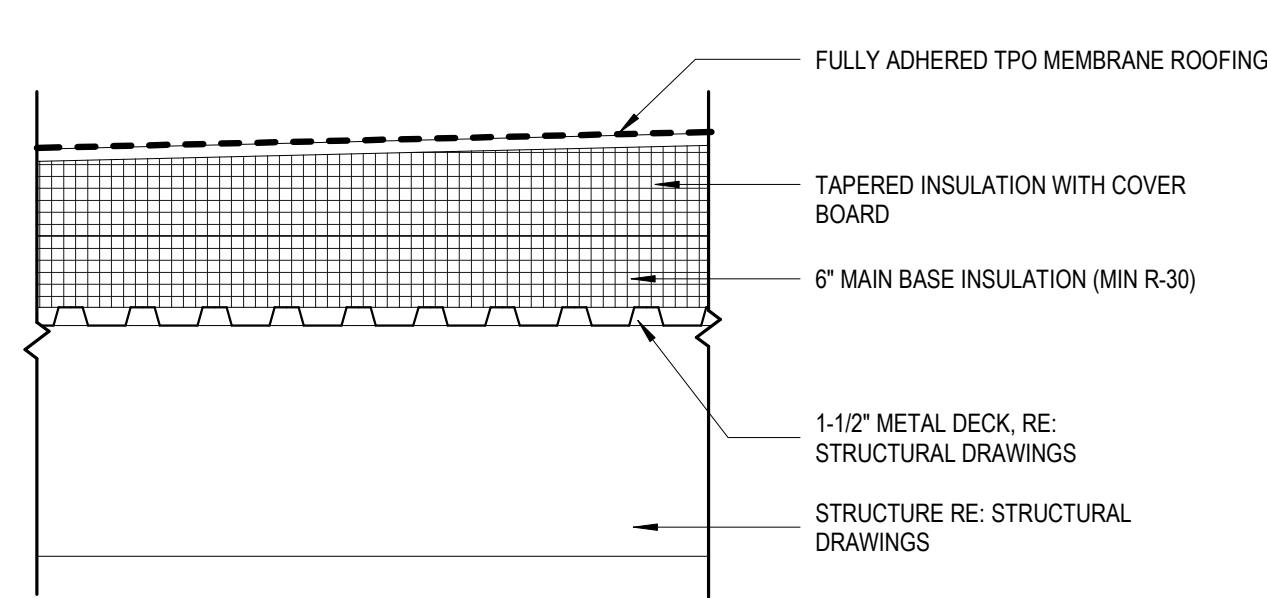
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75% DESIGN

Issue Date
07/19/2019
09/13/2019

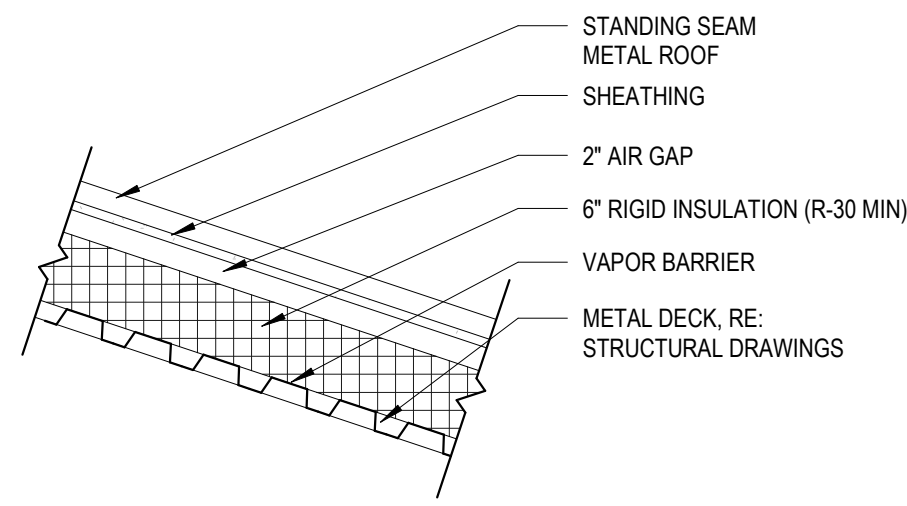
Revision Issue
Rev. # Description Date

ADA DETAILS

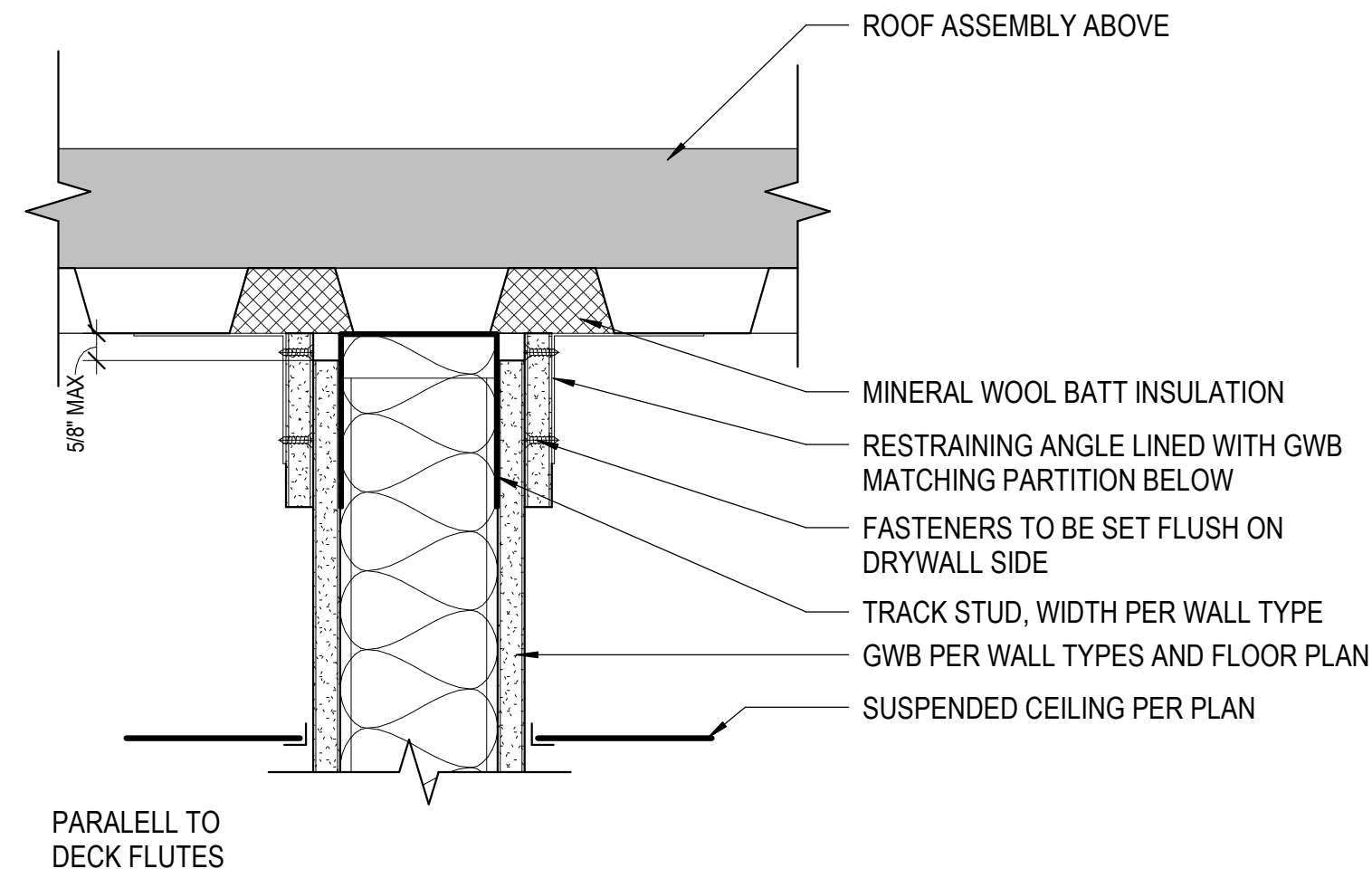
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002



R1



R2

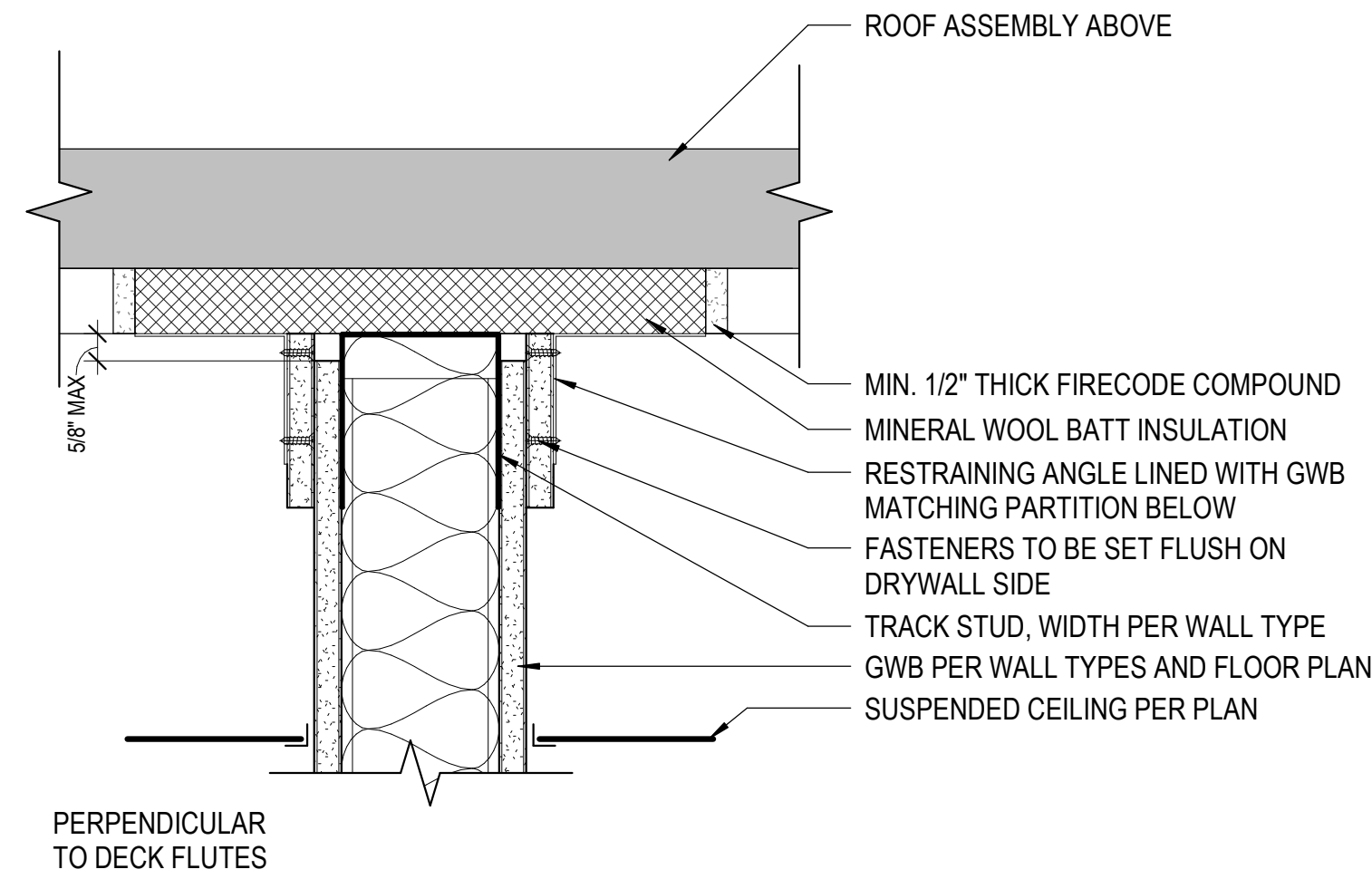


3

1 HR HEAD OF WALL UL HW-D-0001 PARALELL

A 011

3" = 1'-0"

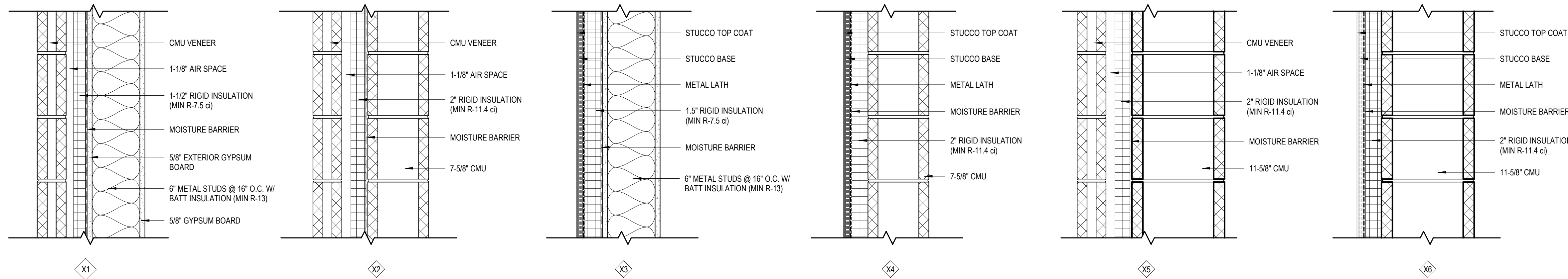
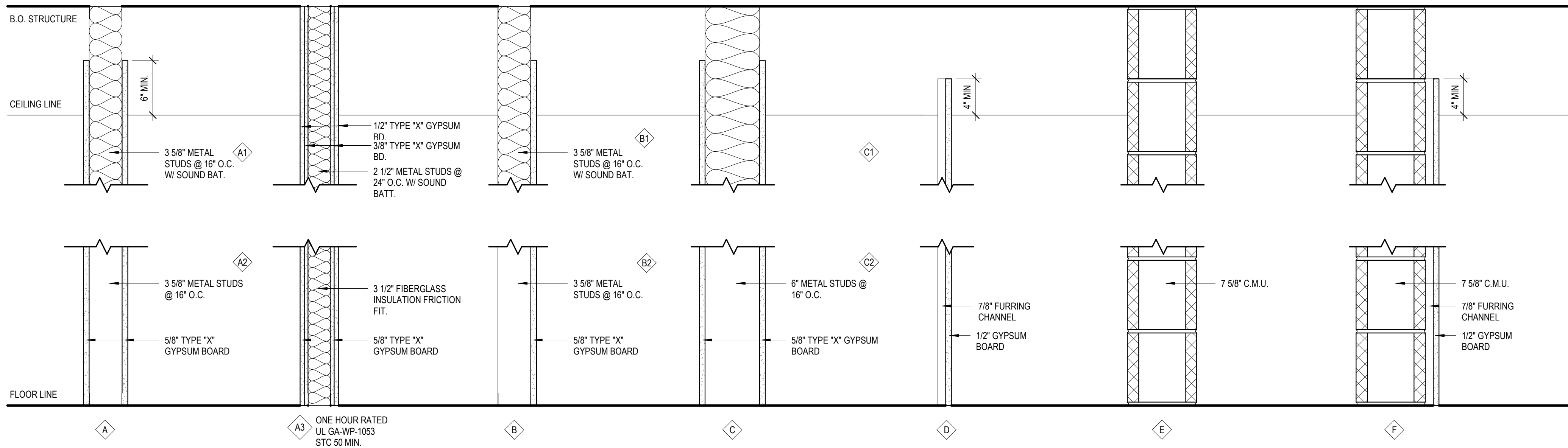


2

1 HR HEAD OF WALL UL HW-D-0001 PERPENDICULAR

A 011

3" = 1'-0"

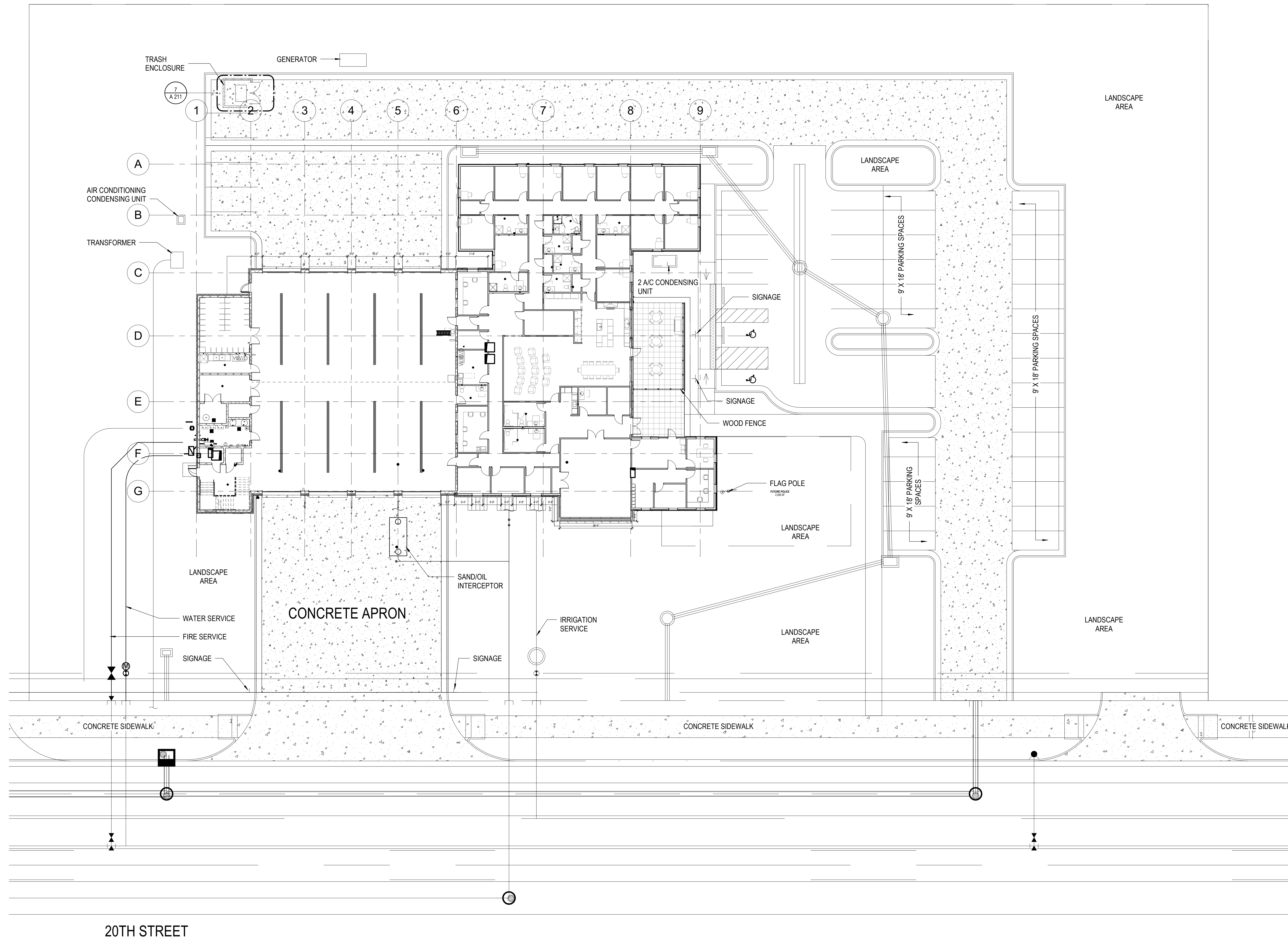


1

WALL TYPES

A 011

1 1/2" = 1'-0"



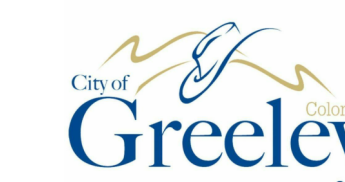
Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/Civil Engineer/Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc.
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.588.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

City of Greeley
GREELEY FIRE STATION #6
10603 20TH ST, GREELEY COLORADO 80634



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SEH Project
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Drawn By

Project Status
30% DESIGN
75% DESIGN

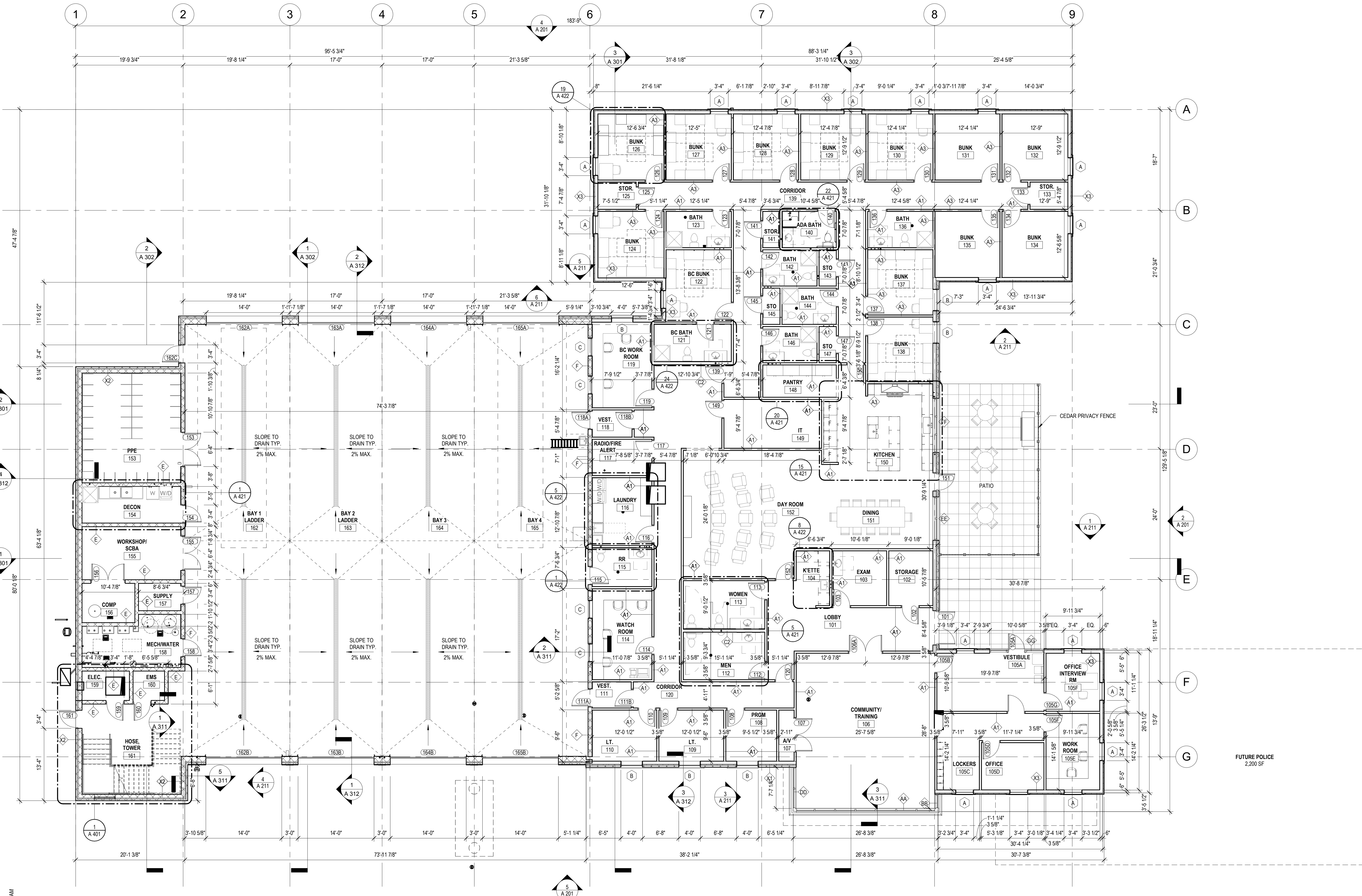
Revision Issue
Rev. # Description Date

FLOOR PLAN - LEVEL 1

A
111

LEVEL 1 FLOOR PLAN

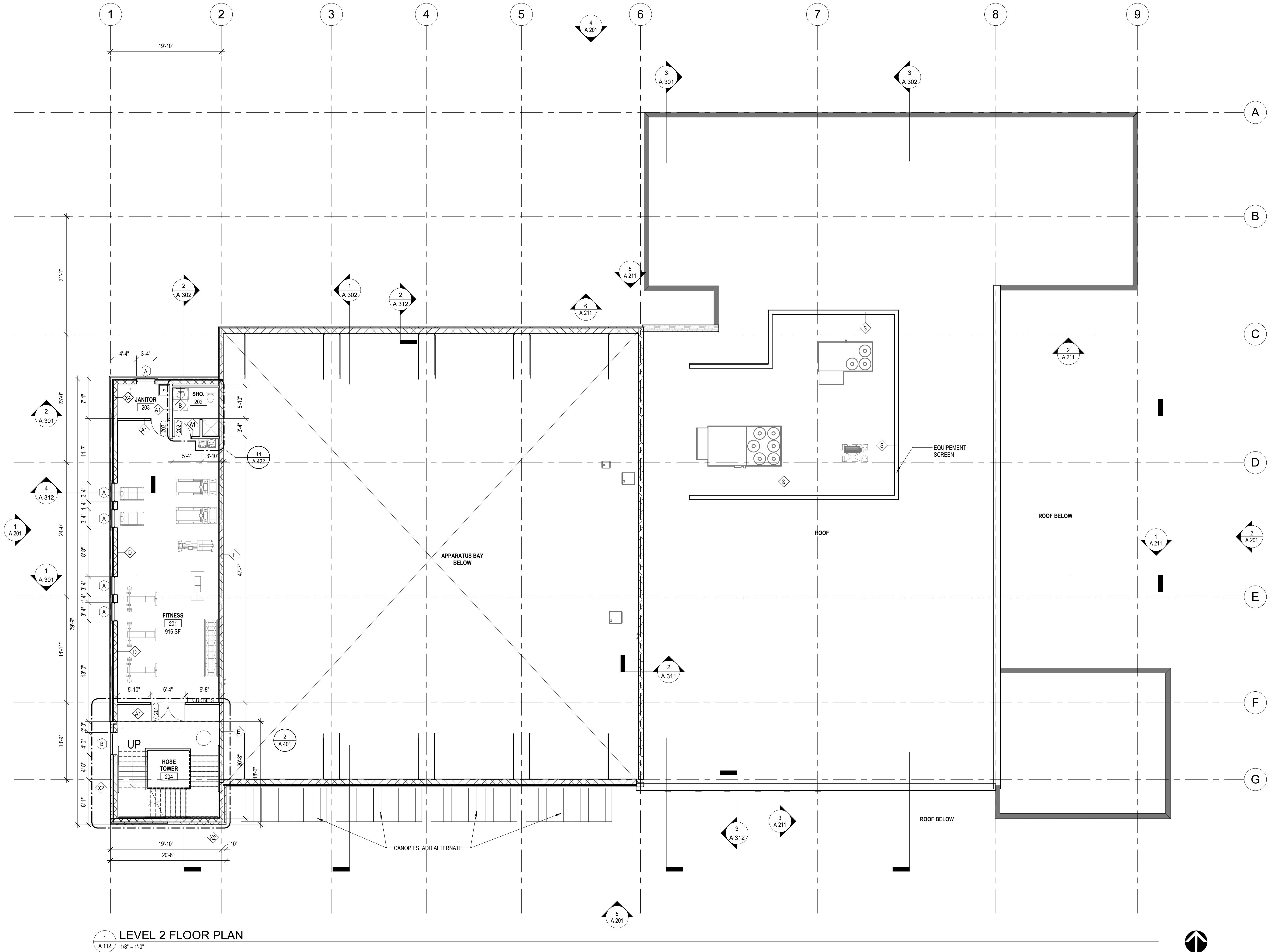
1 A 111 1/8" = 1'-0"



FUTURE POLICE
2,200 SF

9/14/2019 8:52:06 AM

9/14/2019 8:52:08 AM



1 A 112 LEVEL 2 FLOOR PLAN
1/8" = 1'-0"



NOT FOR
CONSTRUCTION

Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/Civil Engineer/Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design Corporation
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The Ballard Group, Inc.
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
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CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

City of Greeley
GREELEY FIRE STATION #6

10603 20TH ST, GREELEY COLORADO 80634



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SEH Project 150268
Checked By CS
Drawn By CS/HHB

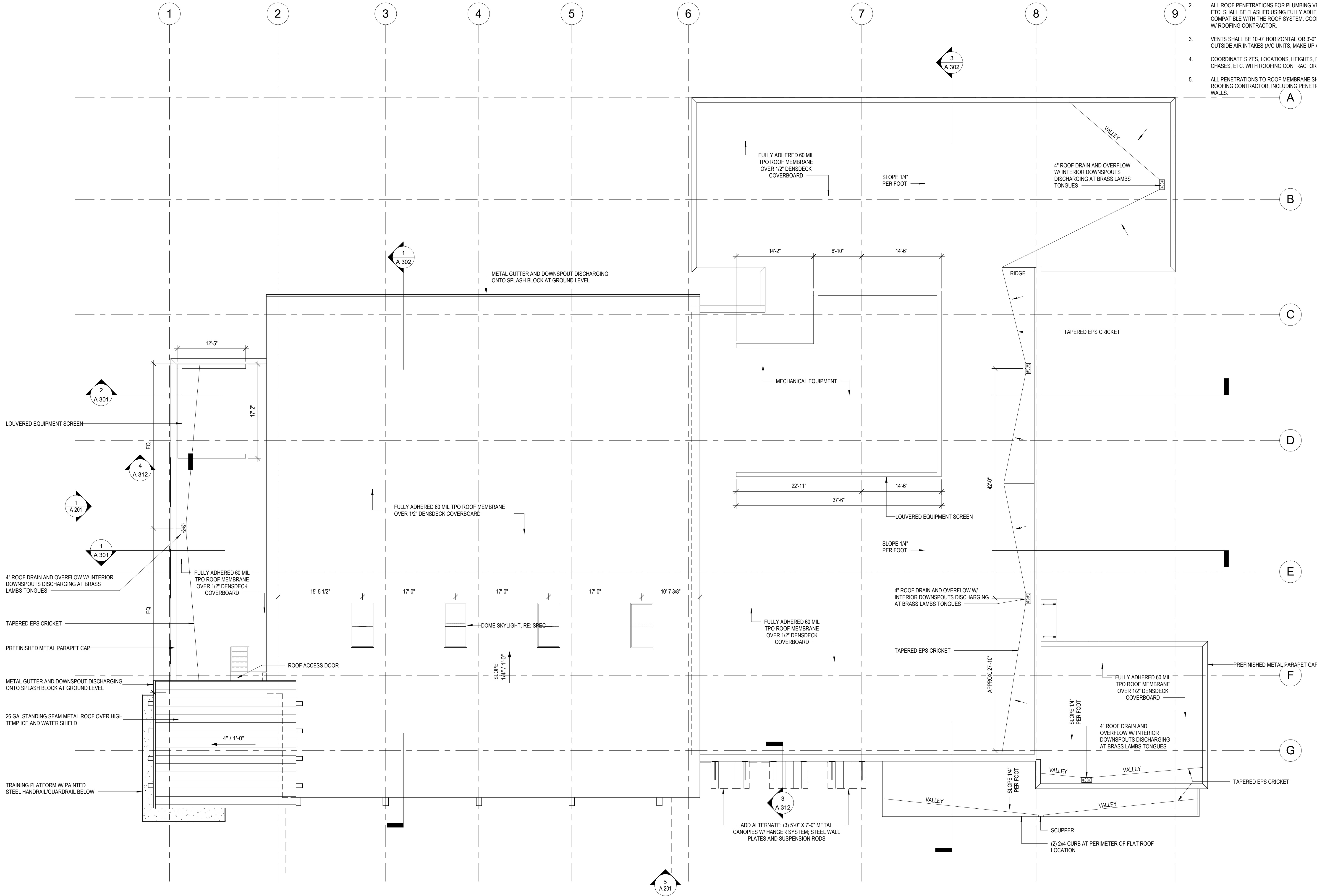
Project Status Issue Date
30% DESIGN 07/19/2019
75% DESIGN 09/13/2019

Rev. #	Description	Date
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FLOOR PLAN - MEZZANINE LEVEL

A
112

9/14/2019 8:52:10 AM



1
A 113
OVERALL-ARCHITECTURAL PLAN-ROOF
1/8" = 1'-0"

GENERAL NOTES

1. PROVIDE 2'x2' WALKWAY PADS ON FLAT ROOFS TO ENSURE A PROTECTED PATH OF TRAVEL BETWEEN AND AROUND ALL MECHANICAL EQUIPMENT, ACCESS POINTS, AND WINDOW WASHING LOCATIONS.
2. ALL ROOF PENETRATIONS FOR PLUMBING VENTS, POWER CONDUITS, ETC. SHALL BE FLASHED USING FULLY ADHERED RUBBER BOOTS COMPATIBLE WITH THE ROOF SYSTEM. COORDINATE PENETRATIONS W/ ROOFING CONTRACTOR.
3. VENTS SHALL BE 10'-0" HORIZONTAL OR 3'-0" VERTICAL ABOVE OUTSIDE AIR INTAKES (A/C UNITS, MAKE UP AIR, ETC)
4. COORDINATE SIZES, LOCATIONS, HEIGHTS, EQUIPMENT, DUCTWORK, CHASES, ETC. WITH ROOFING CONTRACTOR.
5. ALL PENETRATIONS TO ROOF MEMBRANE SHALL BE SEALED BY ROOFING CONTRACTOR, INCLUDING PENETRATIONS IN PARAPET WALLS.

Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/Civil Engineer/Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHV Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.388.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

City of Greeley
Greeley Fire Station #6
10603 20TH ST, GREELEY COLORADO 80634



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30% DESIGN
75% DESIGN

Issue Date
07/19/2019
09/13/2019

Revision Issue

Rev. #	Description	Date
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ROOF PLAN

A
113

GENERAL NOTES

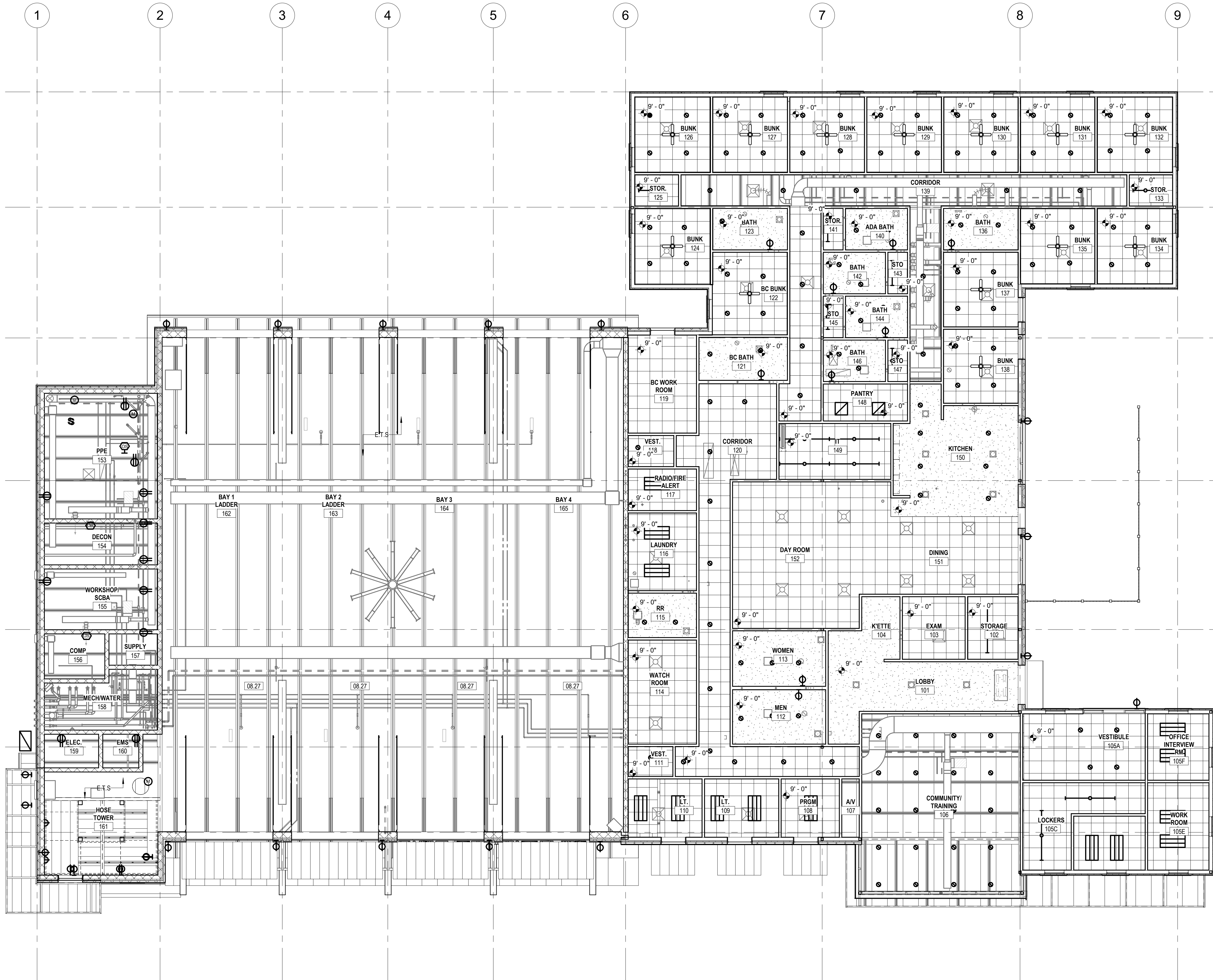
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2. ALL DIMENSIONS TO FACE OF STEEL STUD UNLESS NOTED OTHERWISE.

KEYNOTES

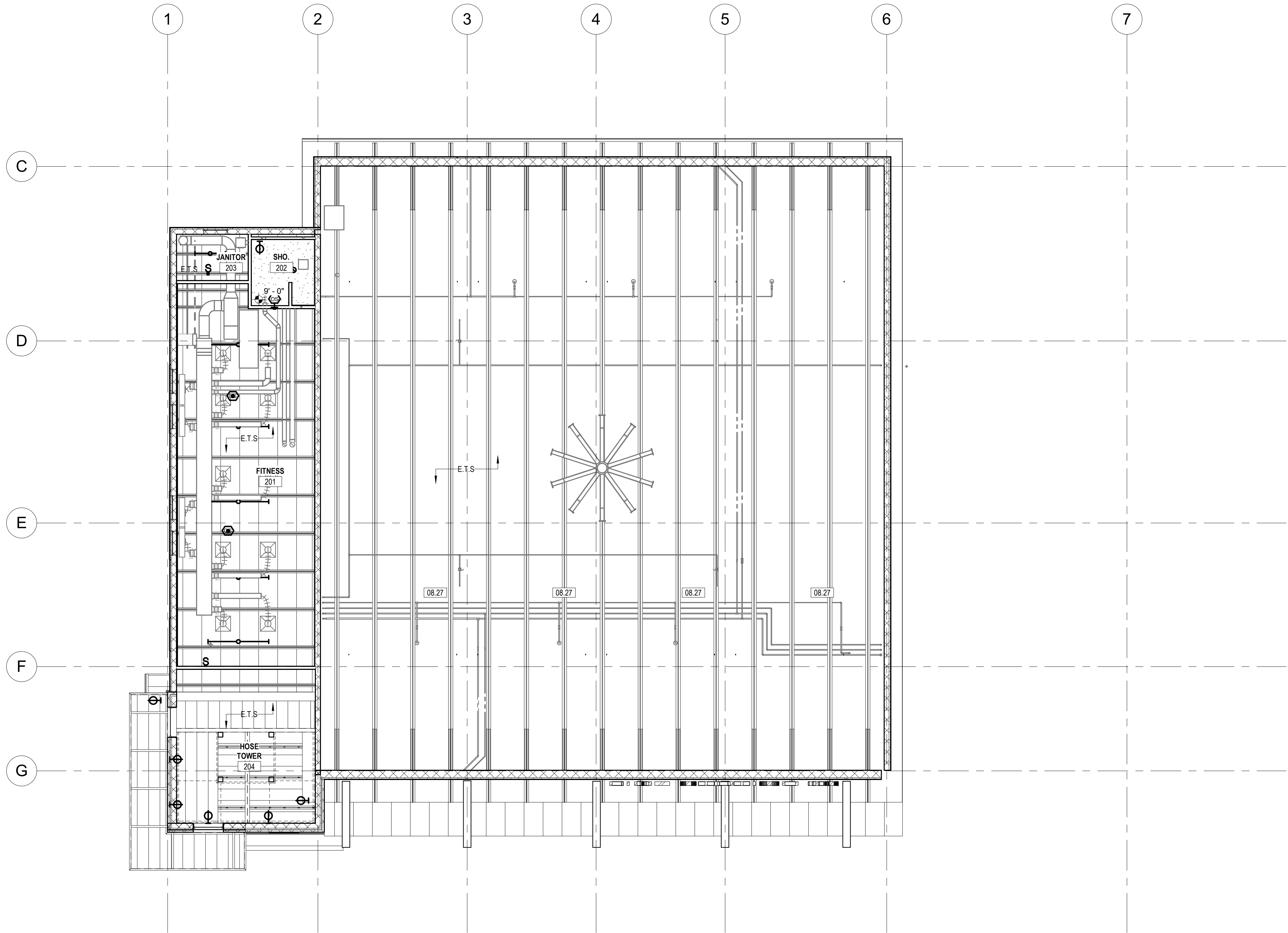
08.27 DOME SKYLIGHT, RE: SPEC

REFLECTED CEILING LEGEND

- GYPSUM BOARD
- 2' x 2' SUSPENDED ACOUSTICAL PANELS
- CONCRETE
- E.T.S EXPOSED TO STRUCTURE
- CEILING FAN, RE: ELECTRICAL
- SKYLIGHT



9/14/2019 8:52:20 AM



1
A 152
REFLECTED CEILING PLAN - LEVEL 2
1/8" = 1'-0"



- GENERAL NOTES**
1. FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT IF DIMENSIONS VARY SIGNIFICANTLY.
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KEYNOTES

08.27 DOME SKYLIGHT, RE: SPEC

- REFLECTED CEILING LEGEND**
- GYPSUM BOARD
 - 2' x 2' SUSPENDED ACOUSTICAL PANELS
 - CONCRETE
 - E.T.S. EXPOSED TO STRUCTURE
 - CEILING FAN, RE: ELECTRICAL
 - SKYLIGHT

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CONSTRUCTION

Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/Civil Engineer/Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.588.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

City of Greeley
GREELEY FIRE STATION #6

10603 20TH ST, GREELEY COLORADO 80634



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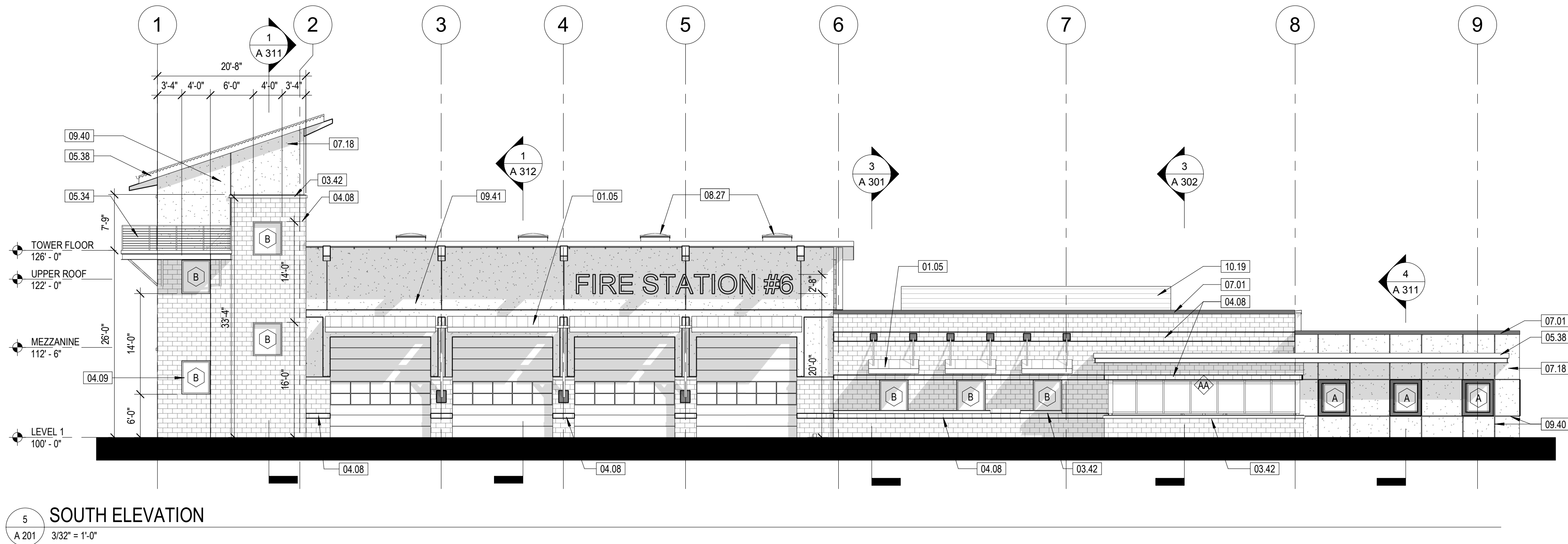
Project Status 30% DESIGN
Issue Date 07/19/2019
75% DESIGN 09/13/2019

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REFLECTED CEILING PLAN -
MEZZANINE LEVEL

A
152



GENERAL NOTES

1. FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT IF DIMENSIONS VARY SIGNIFICANTLY.
2. ALL DIMENSIONS TO FACE OF STEEL STUD UNLESS NOTED OTHERWISE.

KEYNOTES

- | | |
|-------|--|
| 01.05 | ADD ALTERNATE, CANOPY STRUCTURES |
| 03.42 | CAST CONCRETE SILL CAP |
| 04.08 | COLOR CO CONCRETE MASONRY UNIT |
| 04.09 | CONCRETE MASONRY UNIT |
| 05.34 | TRAINING PLATFORM WITH PAINTED STEEL RAILING |
| 06.38 | TWO TIERED PREFINISHED METAL FASCIA |
| 07.01 | PREFINISHED METAL PARAPET CAP |
| 07.18 | THREE-COAT STUCCO, THICKNESS TO ALIGN WITH ADJACENT STUCCO FACE |
| 08.15 | INSULATED, GALVANIZED STEEL, SECTIONAL OVERHEAD DOOR WITH TWO ROWS OF DOUBLE-PANE GLAZED WINDOWS |
| 08.27 | DOME SKYLIGHT, RE: SPEC |
| 09.40 | STUCCO REVEAL |
| 09.41 | STUCCO FINISH |
| 10.19 | LOUVERED EQUIPMENT SCREEN |
| 23.03 | MECHANICAL EQUIPMENT WITH SCREEN WALL |
| 23.15 | RTU, RE: MECHANICAL |
| 23.17 | LOUVER, RE: MECHANICAL |
| 32.10 | CEDAR PRIVACY FENCE, PAINT FINISH |

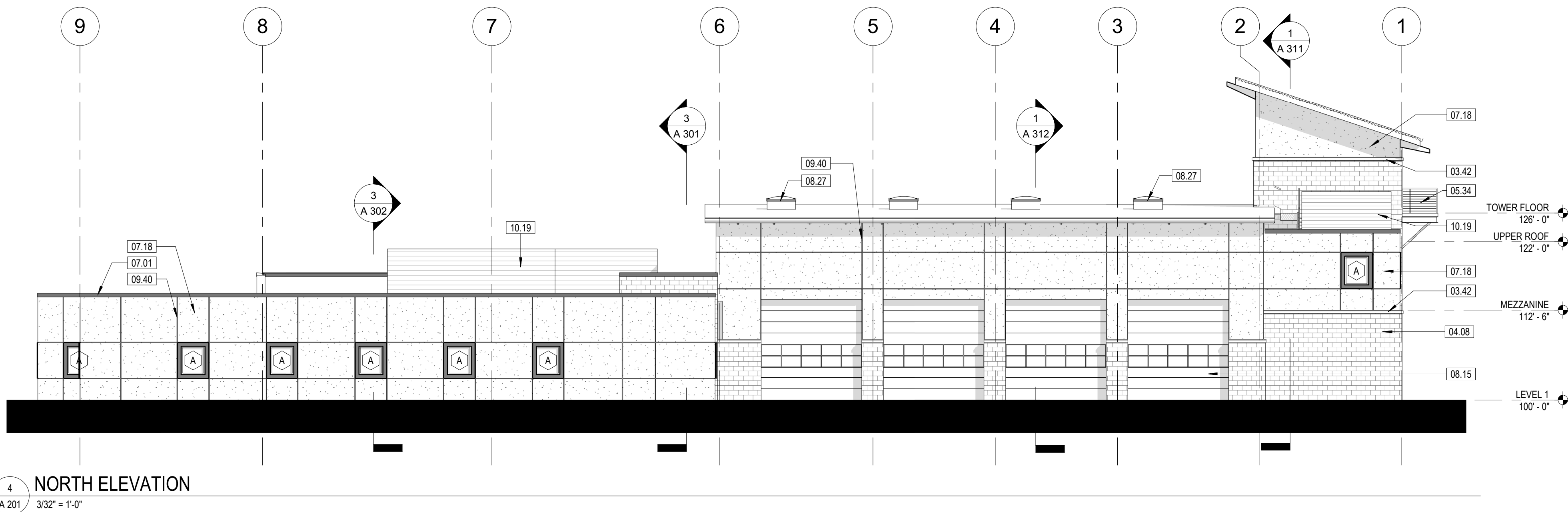
Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/Civil Engineer/Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

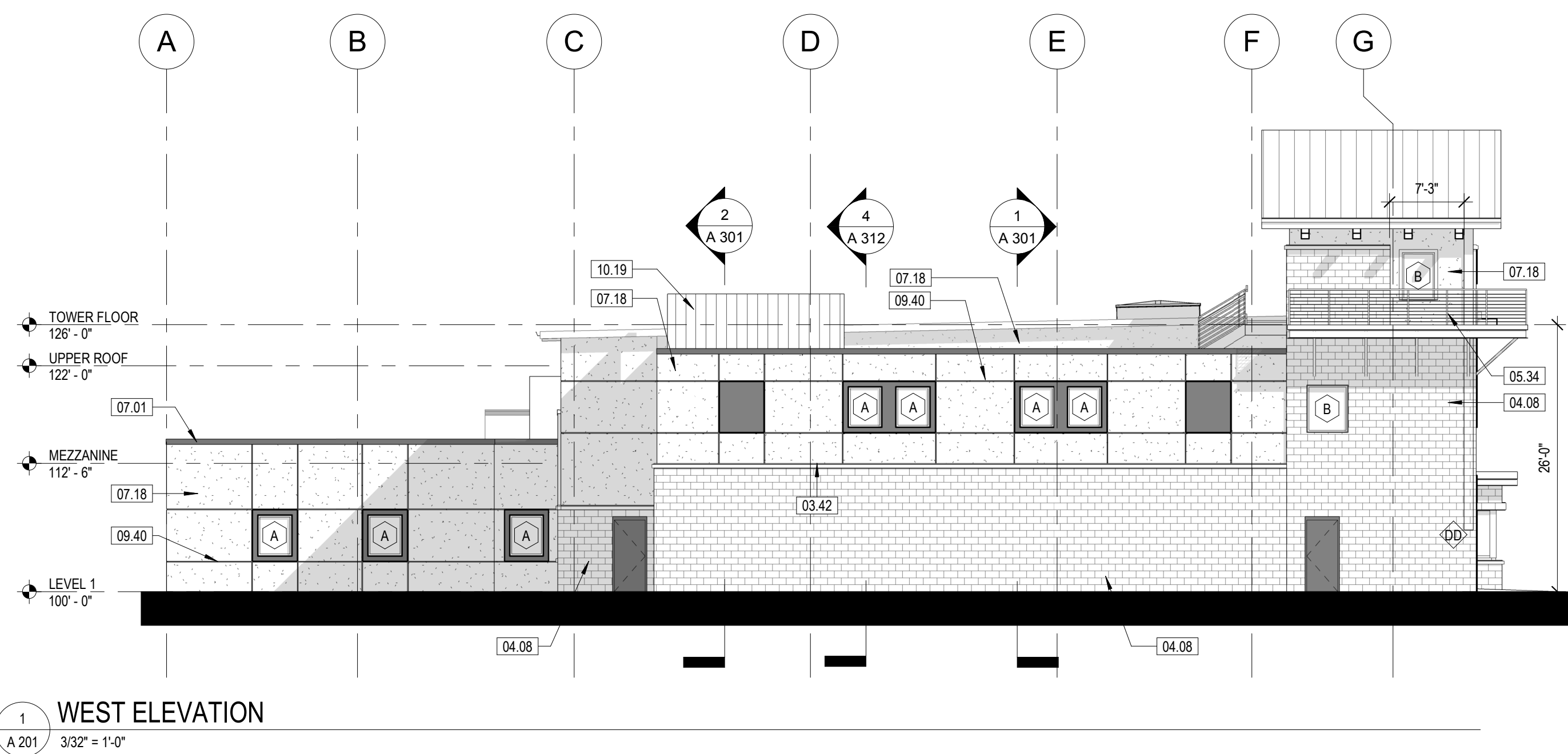
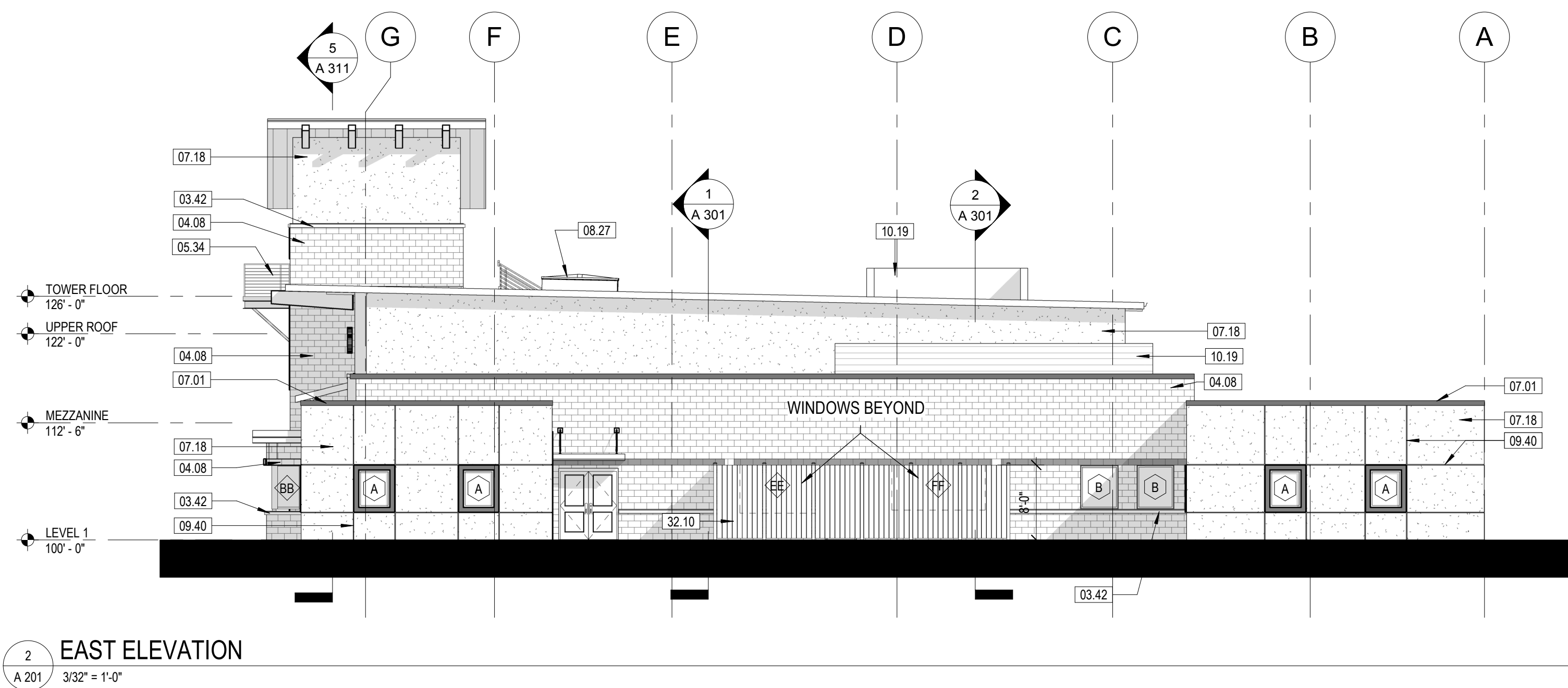
Landscape Architect
DHV Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037



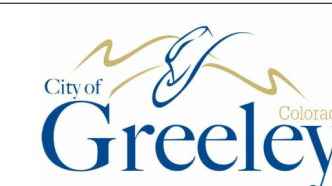
3 3D RENDERING
A 201 NOT TO SCALE



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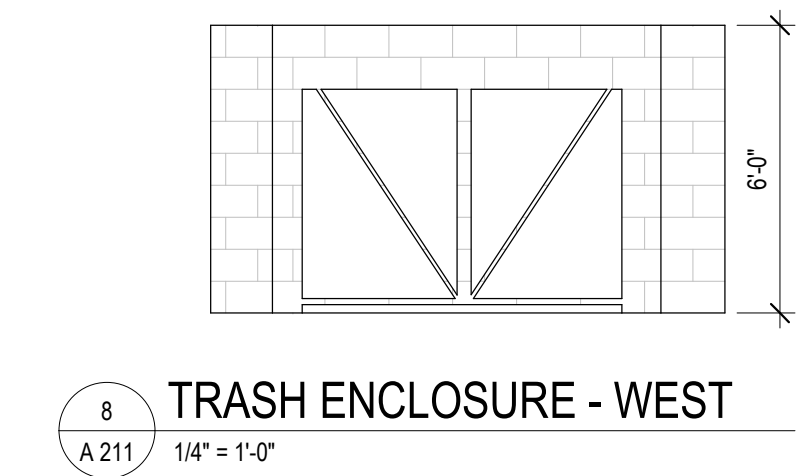
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EXTERIOR ELEVATIONS

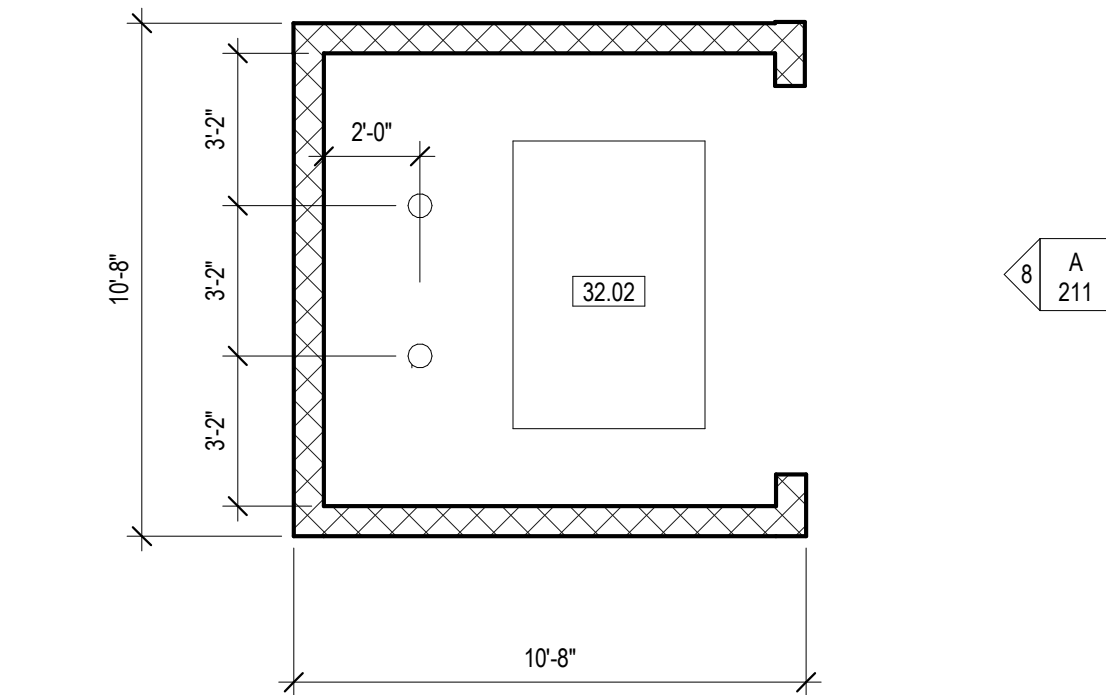
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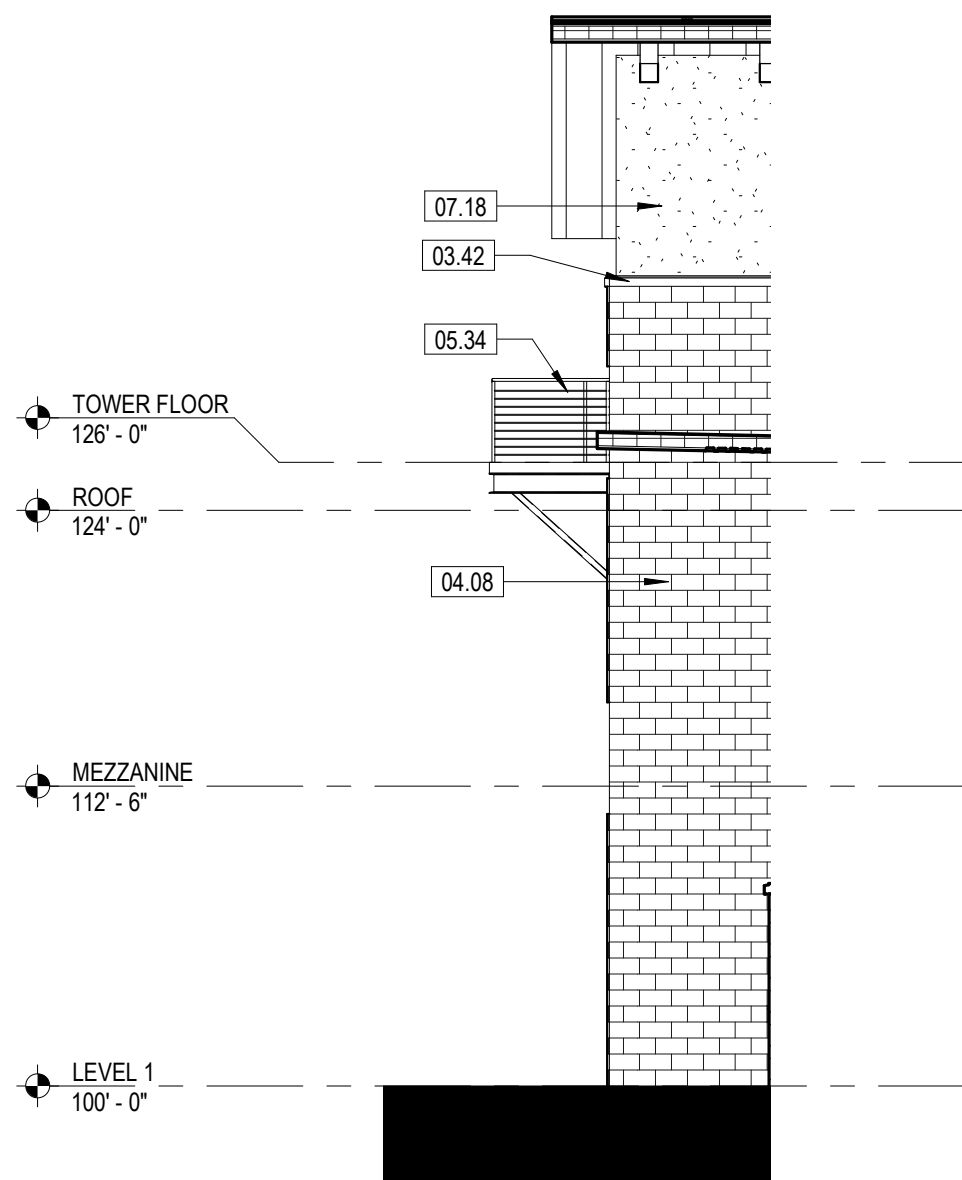
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A 211
1/4" = 1'-0"

TRASH ENCLOSURE - WEST



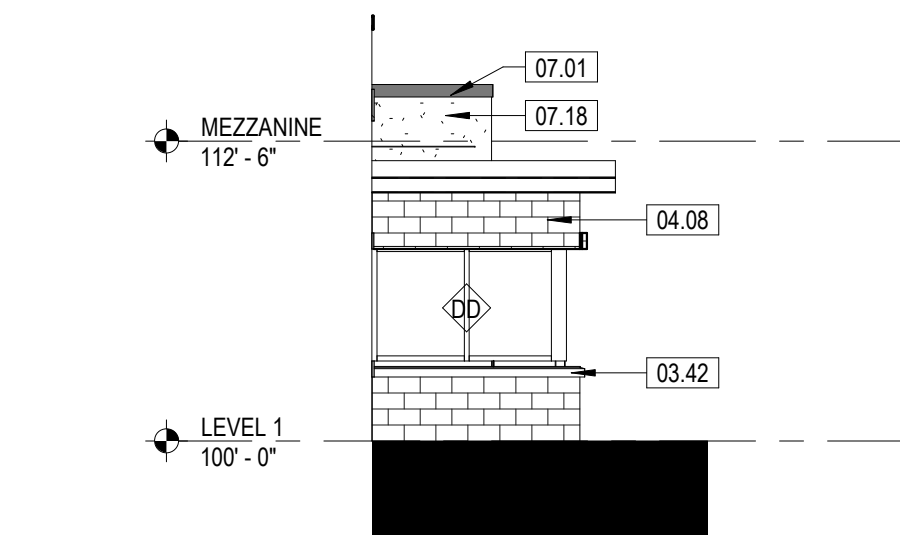
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TRASH ENCLOSURE PLAN



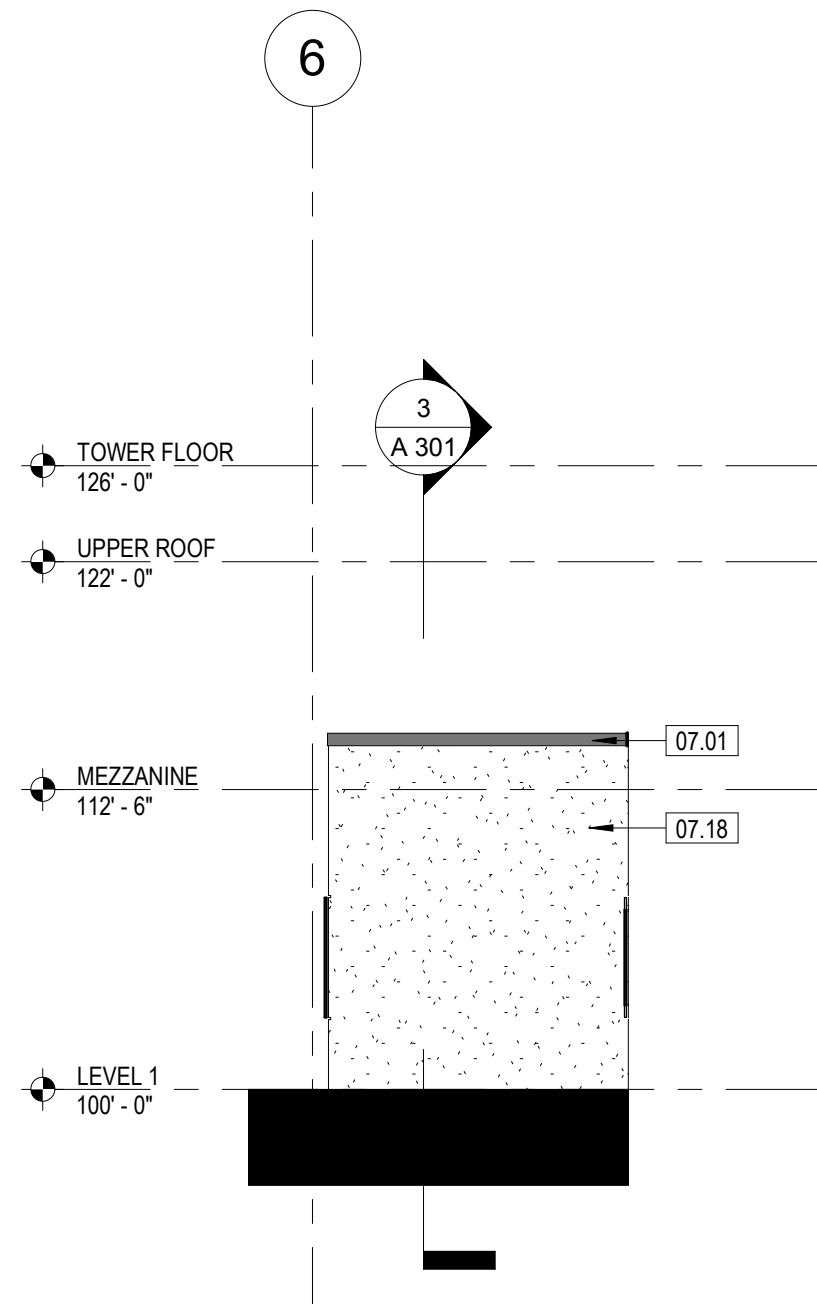
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A 211
1/8" = 1'-0"

HOSE TOWER EAST ELEVATION



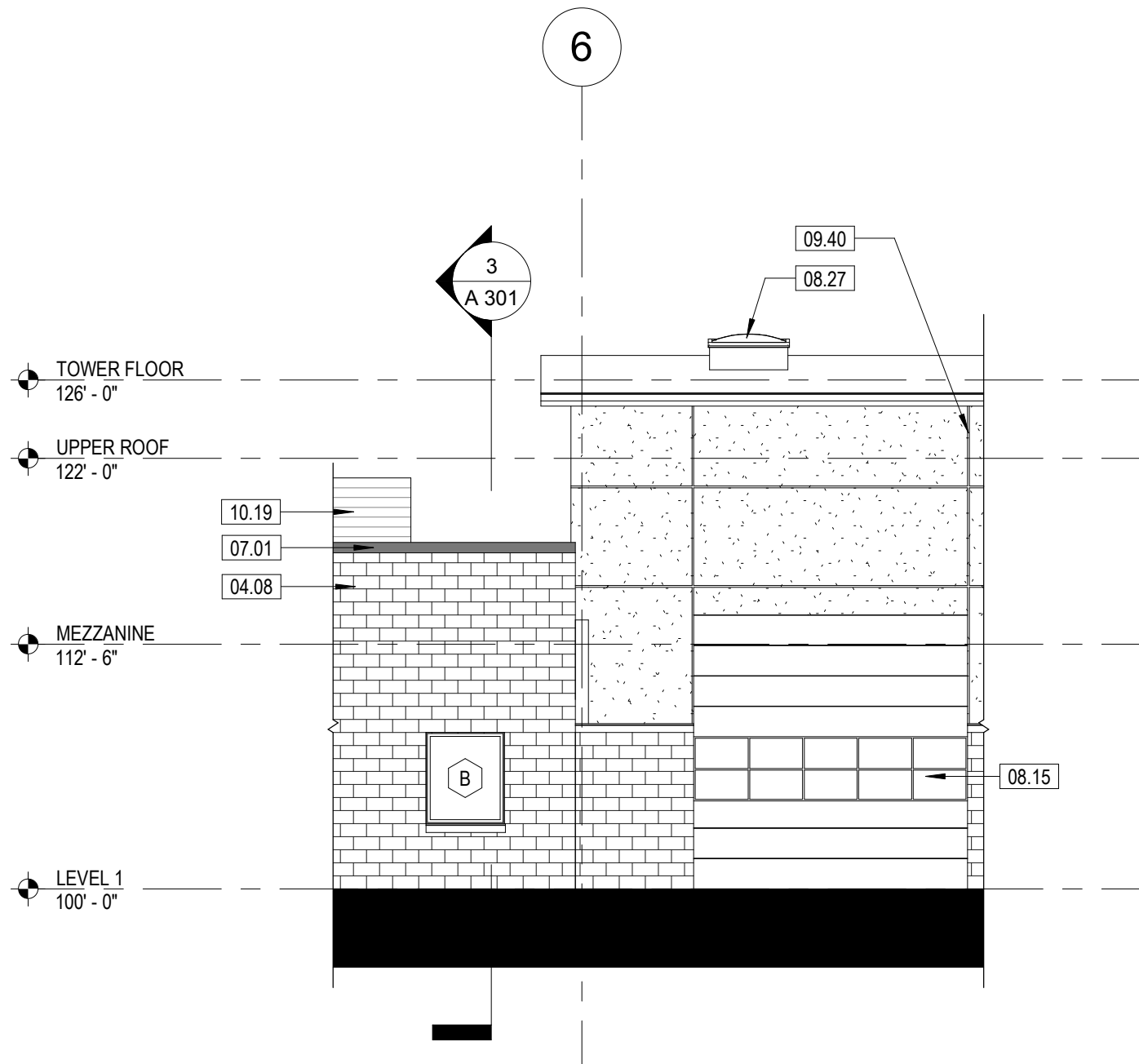
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A 211
1/8" = 1'-0"

COMMUNITY TRAINING - WEST ELEVATION



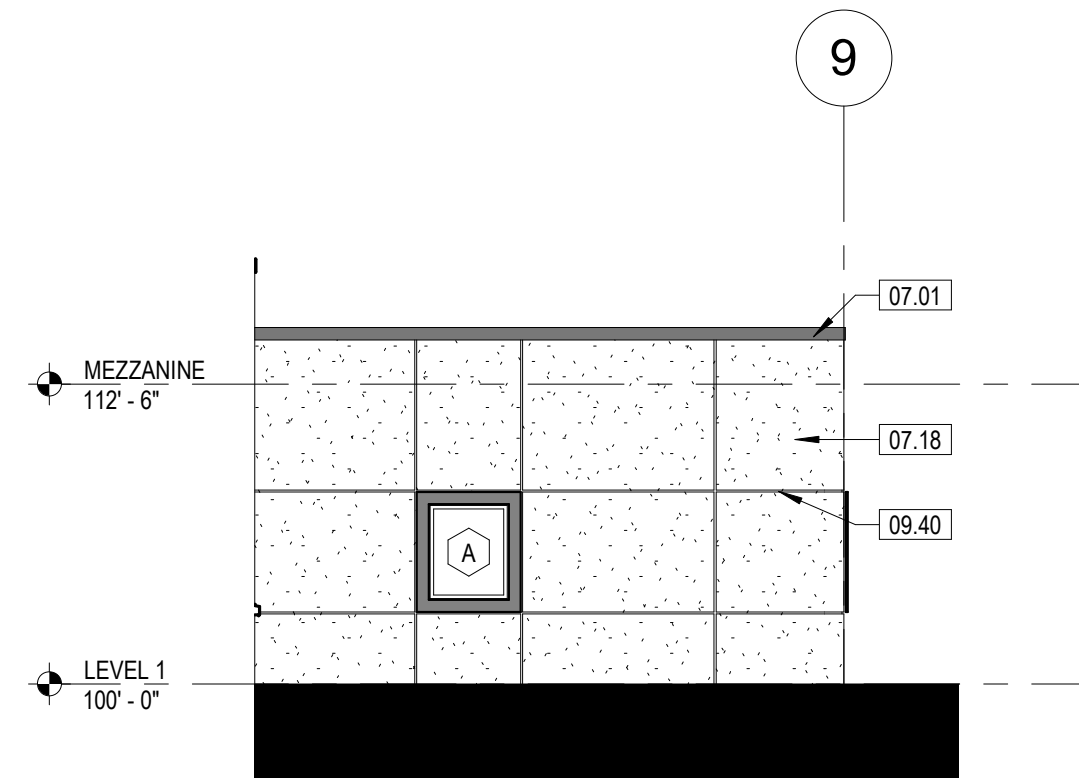
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A 211
1/8" = 1'-0"

SOUTH ELEVATION 3



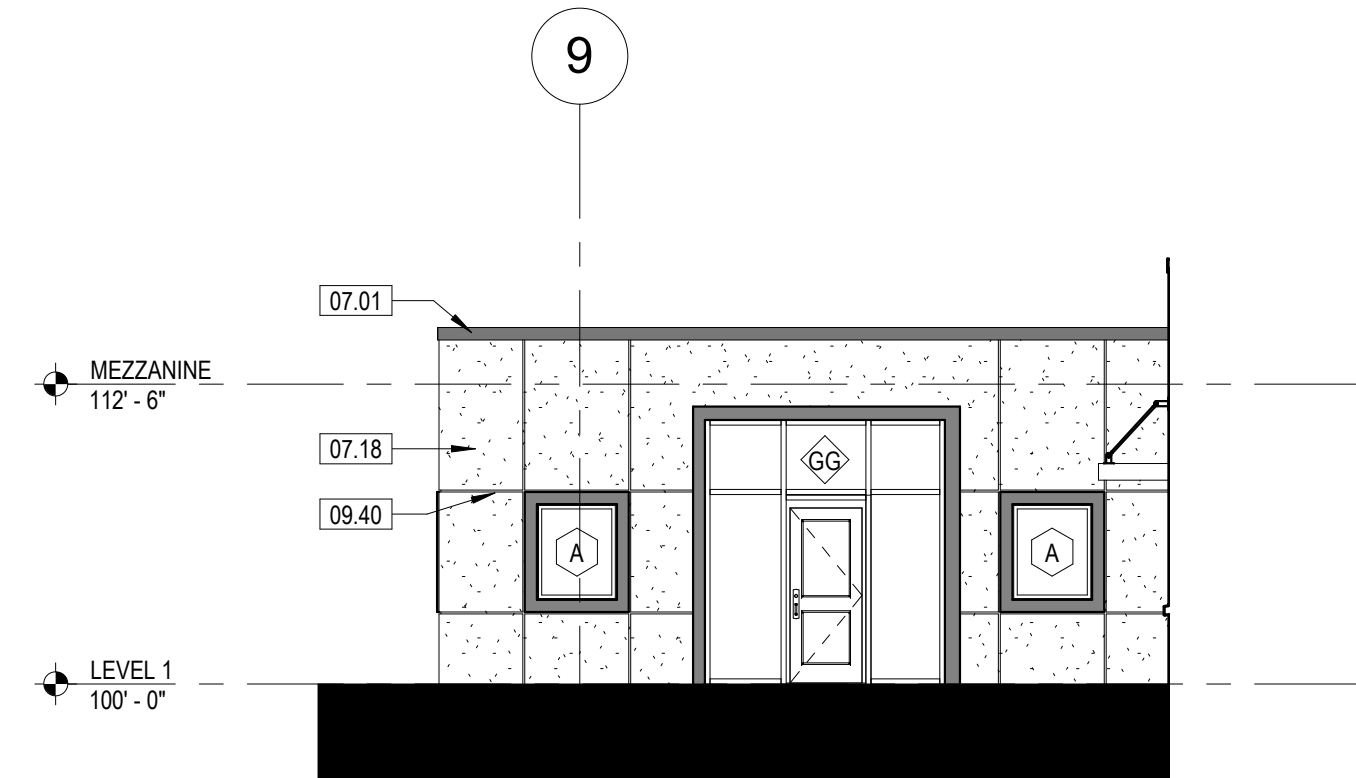
5
A 211
1/8" = 1'-0"

APPARATUS BAY NORTH ELEVATION



2
A 211
1/8" = 1'-0"

PATIO SOUTH ELEVATION



1
A 211
1/8" = 1'-0"

PATIO NORTH ELEVATION

- GENERAL NOTES**
1. FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT IF DIMENSIONS VARY SIGNIFICANTLY.
 2. ALL DIMENSIONS TO FACE OF STEEL STUD UNLESS NOTED OTHERWISE.

- KEYNOTES**
- 03.42 CAST CONCRETE SILL CAP
 - 04.08 COLORED CONCRETE MASONRY UNIT
 - 05.34 TRAINING PLATFORM WITH PAINTED STEEL RAILING
 - 07.01 PREFINISHED METAL PARAPET CAP
 - 07.18 THREE-COAT STUCCO, THICKNESS TO ALIGN WITH ADJACENT STUCCO FACE
 - 08.15 INSULATED, GALVANIZED STEEL, SECTIONAL OVERHEAD DOOR WITH TWO ROWS OF DOUBLE-PANE GLAZED WINDOWS
 - 08.27 DOME SKYLIGHT, RE: SPEC
 - 09.40 STUCCO REVEAL
 - 10.19 LOUVERED EQUIPMENT SCREEN
 - 32.02 DUMPSTER

Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/Civil Engineer/Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHV Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.368.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

City of Greeley
GREELEY FIRE STATION #6

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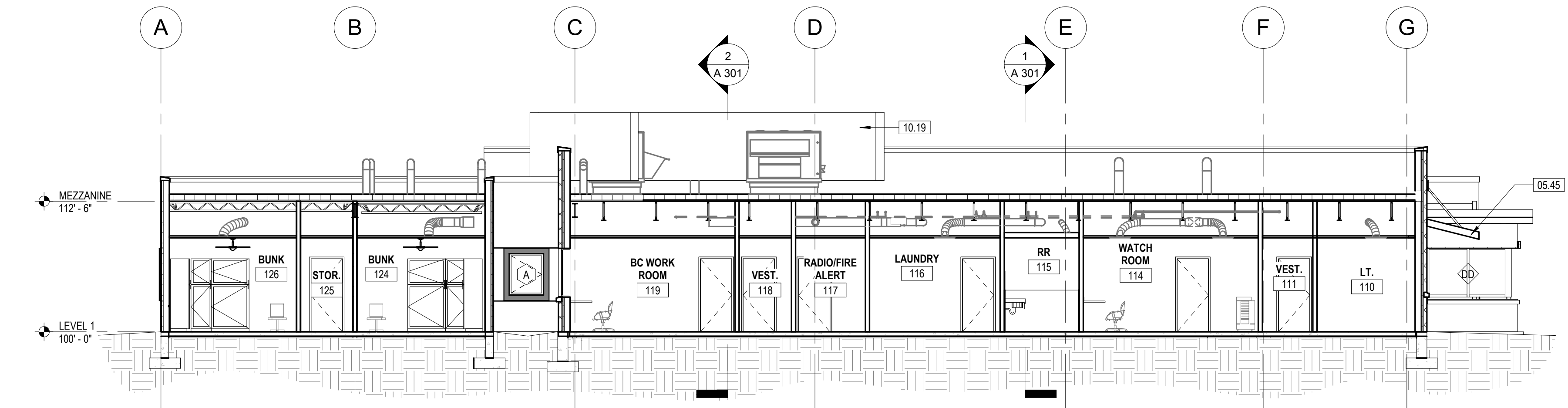
Revision Issue
Rev. # Description Date

ENLARGED EXTERIOR
ELEVATIONS

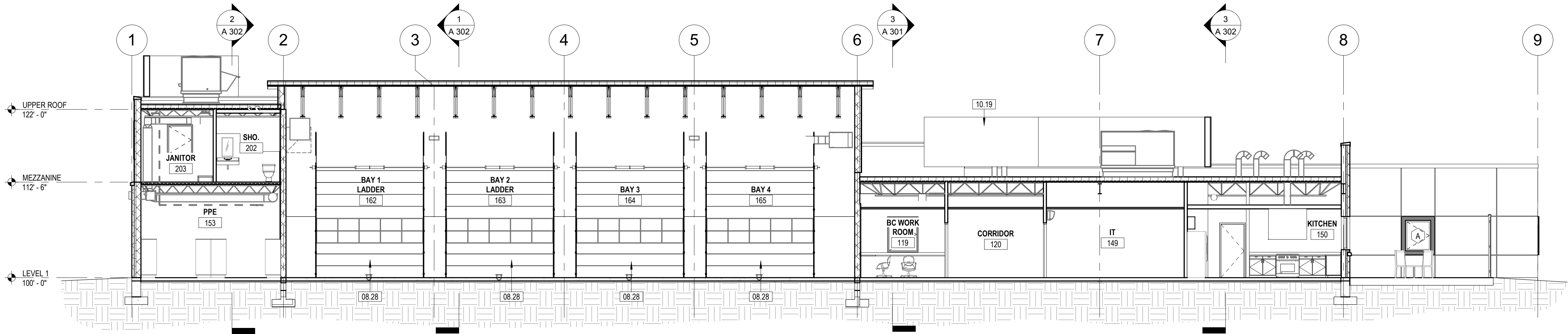
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NOT FOR
CONSTRUCTION

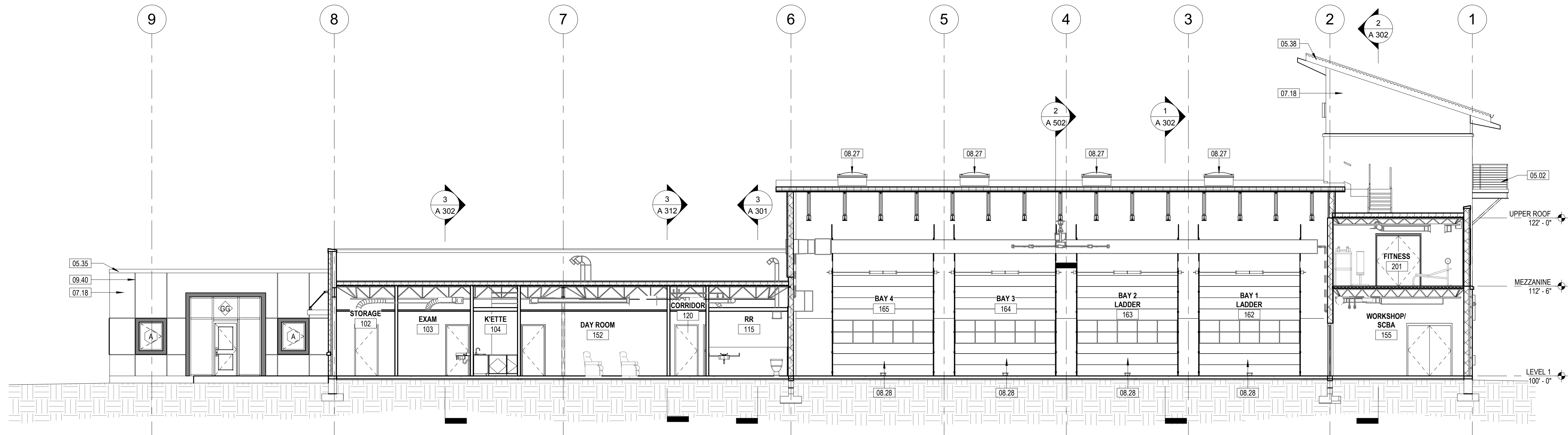
9/14/2019 8:53:21 AM



3 BUILDING SECTION
A 301 1/8" = 1'-0"



2 BUILDING SECTION
A 301 1/8" = 1'-0"



1 BUILDING SECTION
A 301 1/8" = 1'-0"

GENERAL NOTES

1. FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT IF DIMENSIONS VARY SIGNIFICANTLY.
2. ALL DIMENSIONS TO FACE OF STEEL STUD UNLESS NOTED OTHERWISE.

KEYNOTES

- 05.02 PAINTED STEEL HANDRAIL / GUARDRAIL SYSTEM
- 05.35 PREFINISHED METAL CAP
- 05.38 TWO TIERED PREFINISHED METAL FASCIA
- 05.45 PREFABRICATED METAL CANOPY (ADD ALTERNATE), STRUTUAL SUPPORTS TO BE BRIVIDED IN BASE BID.
- 07.18 THREE-COAT STUCCO, THICKNESS TO ALIGN WITH ADJACENT STUCCO FACE
- 08.27 DOME SKYLIGHT, RE: SPEC
- 08.28 OVERHEAD SECTIONAL DOOR
- 09.40 STUCCO REVEAL
- 10.19 LOUVERED EQUIPMENT SCREEN

Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect
DHM Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

City of Greeley
GREELEY FIRE STATION #6
10603 20TH ST, GREELEY COLORADO 80634



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Rev. # Description Date

BUILDING SECTIONS

A
301

- GENERAL NOTES**
1. FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT IF DIMENSIONS VARY SIGNIFICANTLY.
 2. ALL DIMENSIONS TO FACE OF STEEL STUD UNLESS NOTED OTHERWISE.

- KEYNOTES**
- 04.08 COLORED CONCRETE MASONRY UNIT
 - 05.02 PAINTED STEEL HANDRAIL / GUARDRAIL SYSTEM
 - 05.35 PREFINISHED METAL CAP
 - 05.38 TWO TIERED PREFINISHED METAL FASCIA
 - 05.45 PREFABRICATED METAL CANOPY (ADD ALTERNATE). STRUTUAL SUPPORTS TO BE BRIDGED IN BASE BID.
 - 07.18 THREE-COAT STUCCO, THICKNESS TO ALIGN WITH ADJACENT STUCCO FACE
 - 08.27 DOME SKYLIGHT, RE: SPEC
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Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/Civil Engineer/Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect
DHV Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

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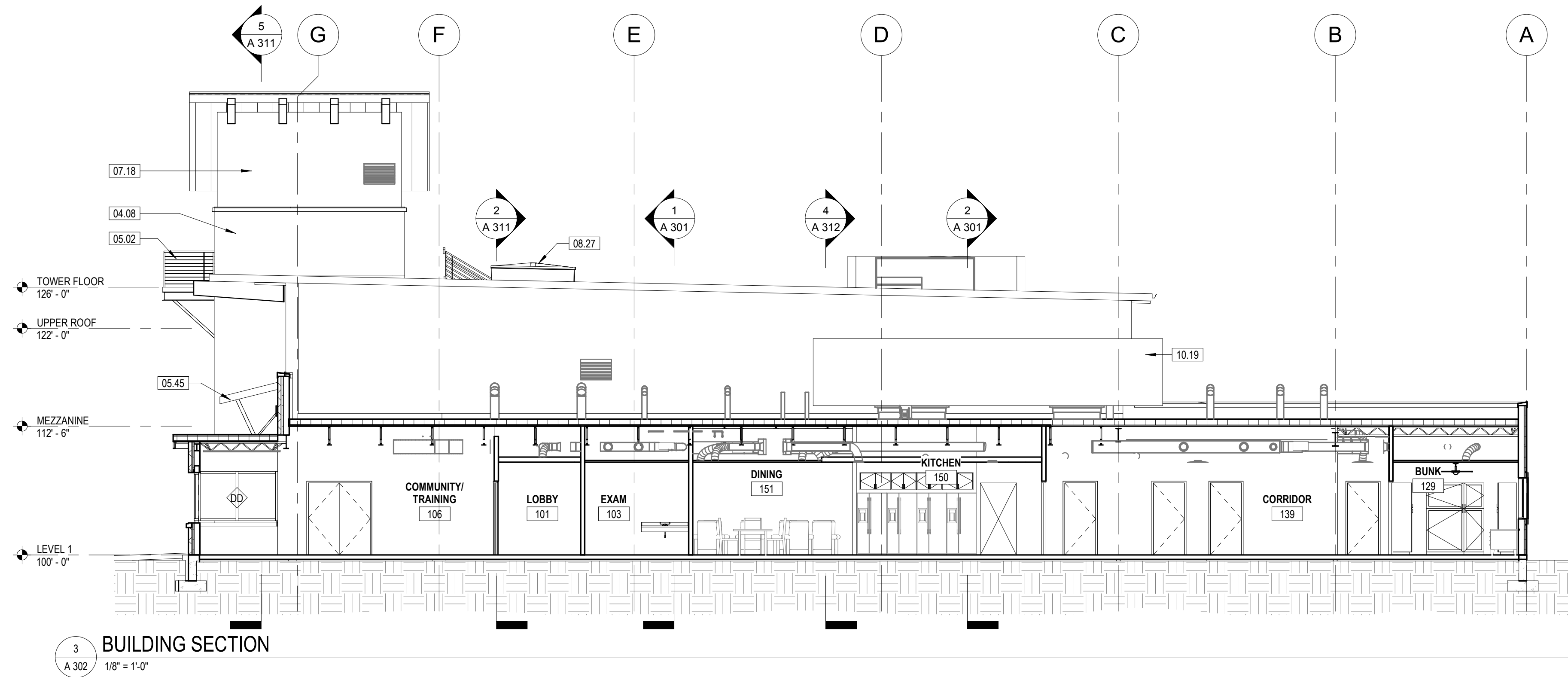
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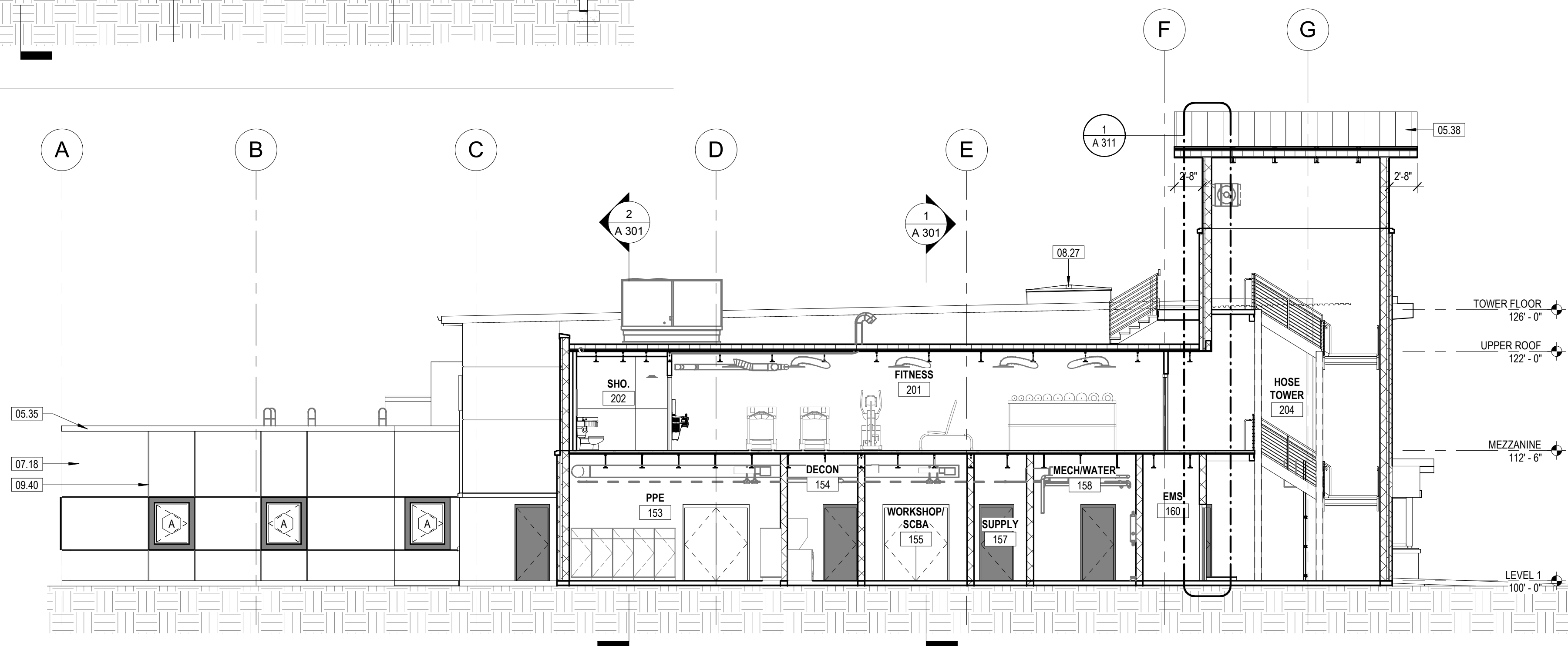
Revision Issue
Rev. # Description Date

BUILDING SECTIONS

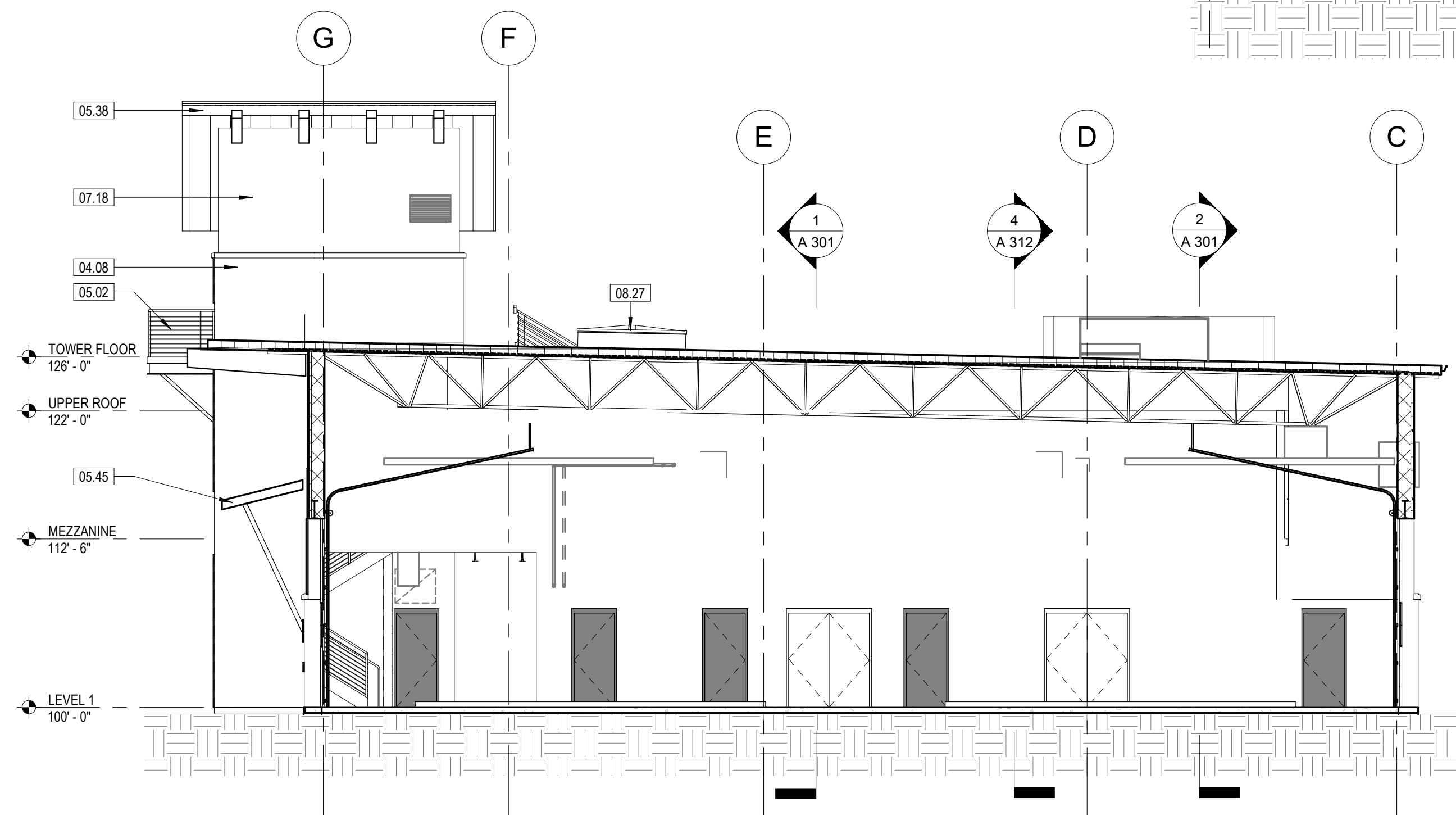
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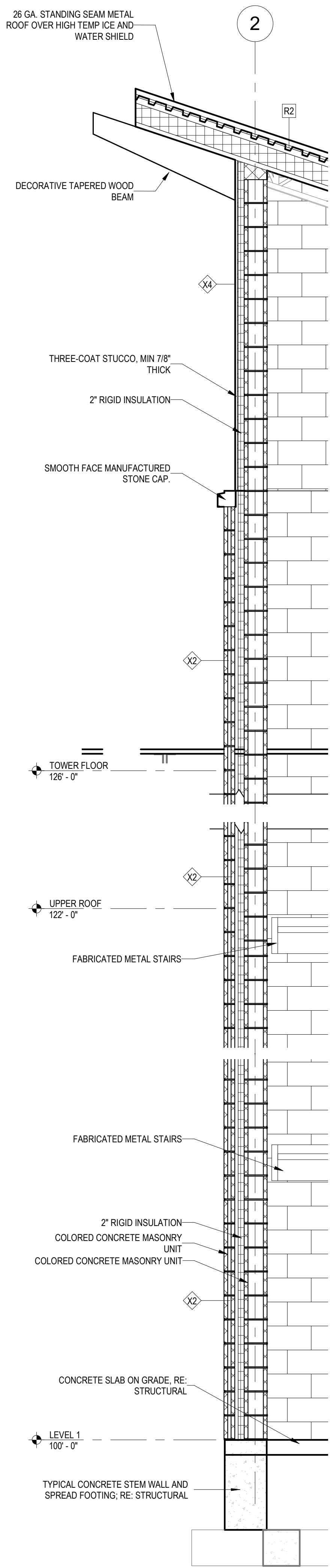


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2 A 302 1/8" = 1'-0"

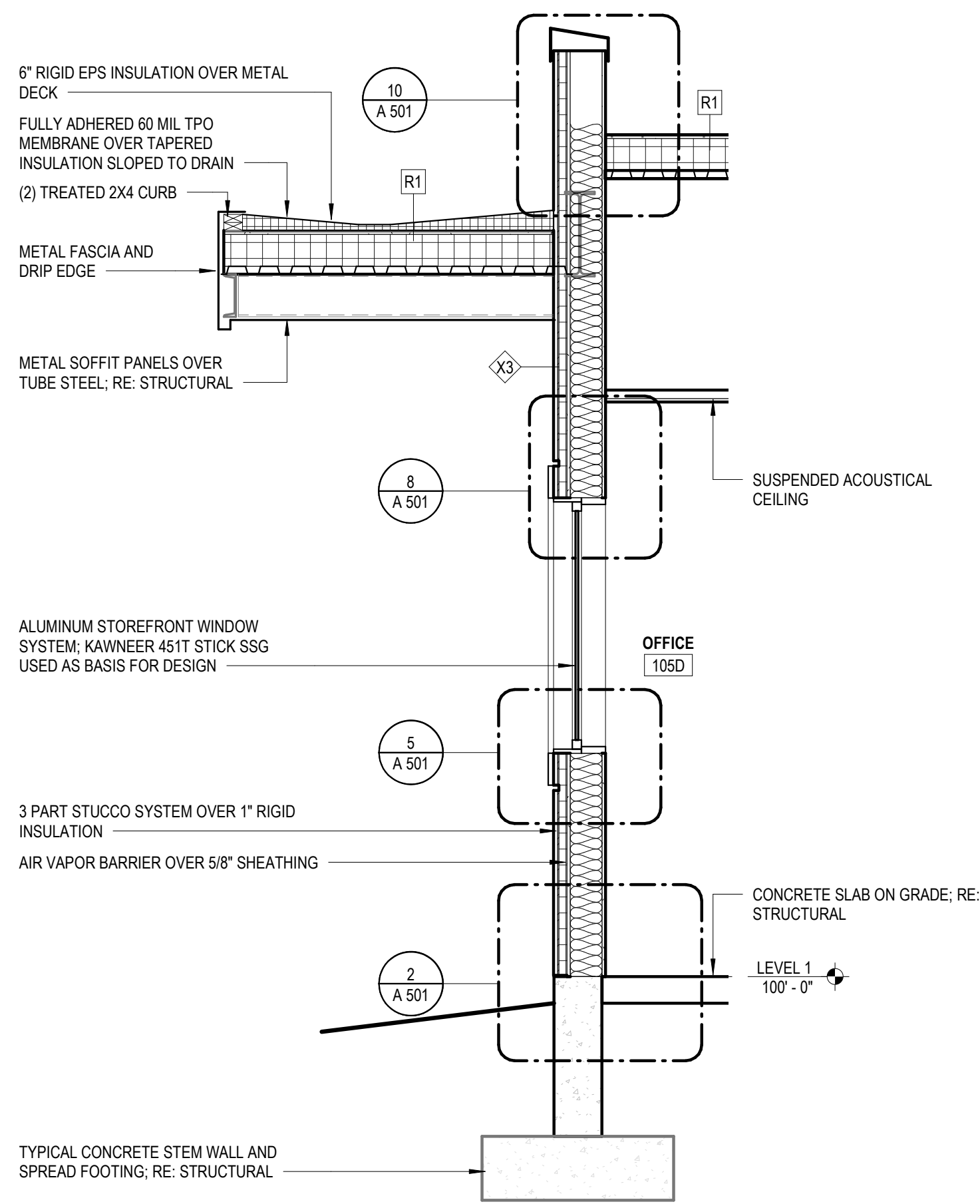


BUILDING SECTION
1 A 302 1/8" = 1'-0"

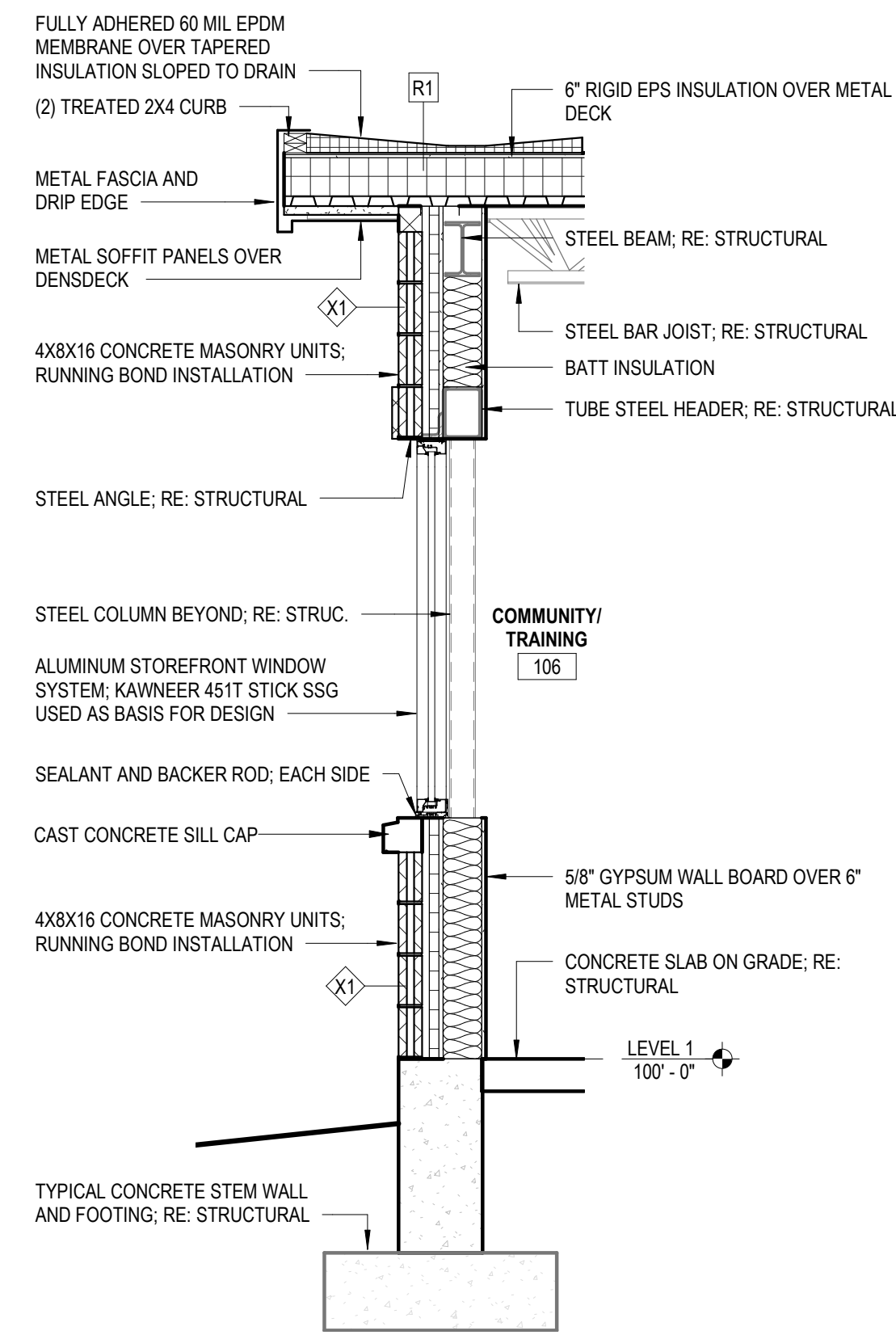
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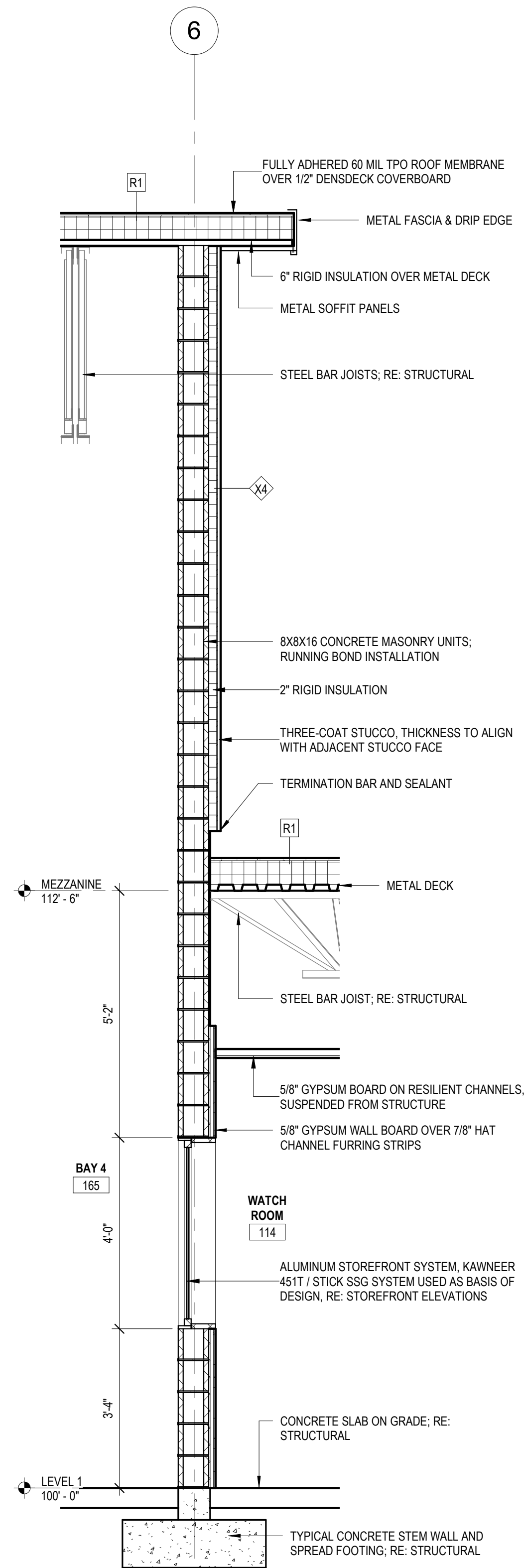
5 WALL SECTION 5
A 311 1/2" = 1'-0"



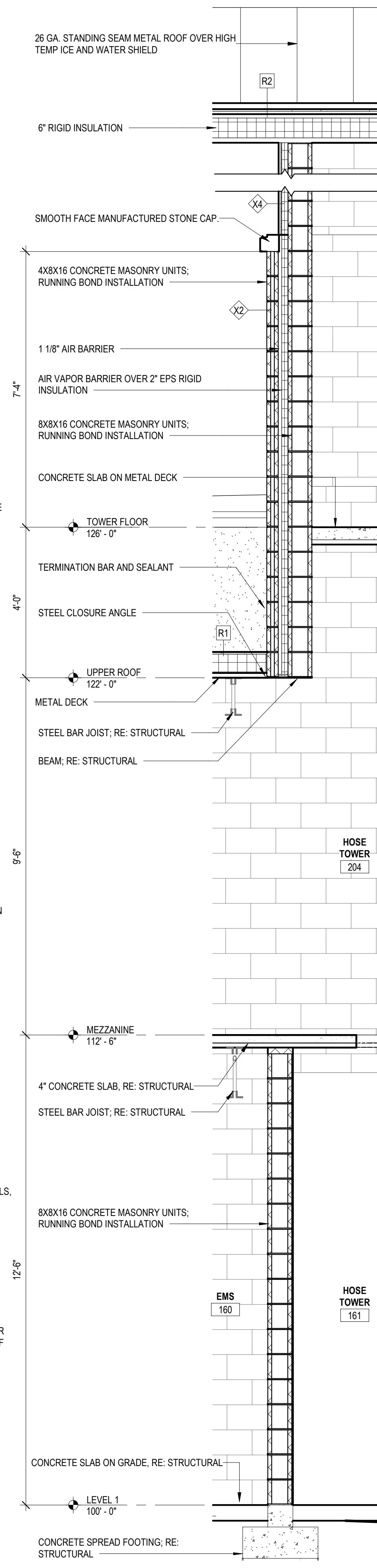
4 WALL SECTION 4
A 311 1/2" = 1'-0"



3 WALL SECTION 3
A 311 1/2" = 1'-0"



2 WALL SECTION 2
A 311 1/2" = 1'-0"



1 WALL SECTION 1
A 311 1/2" = 1'-0"

Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect, Civil Engineer, Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHV Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.388.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

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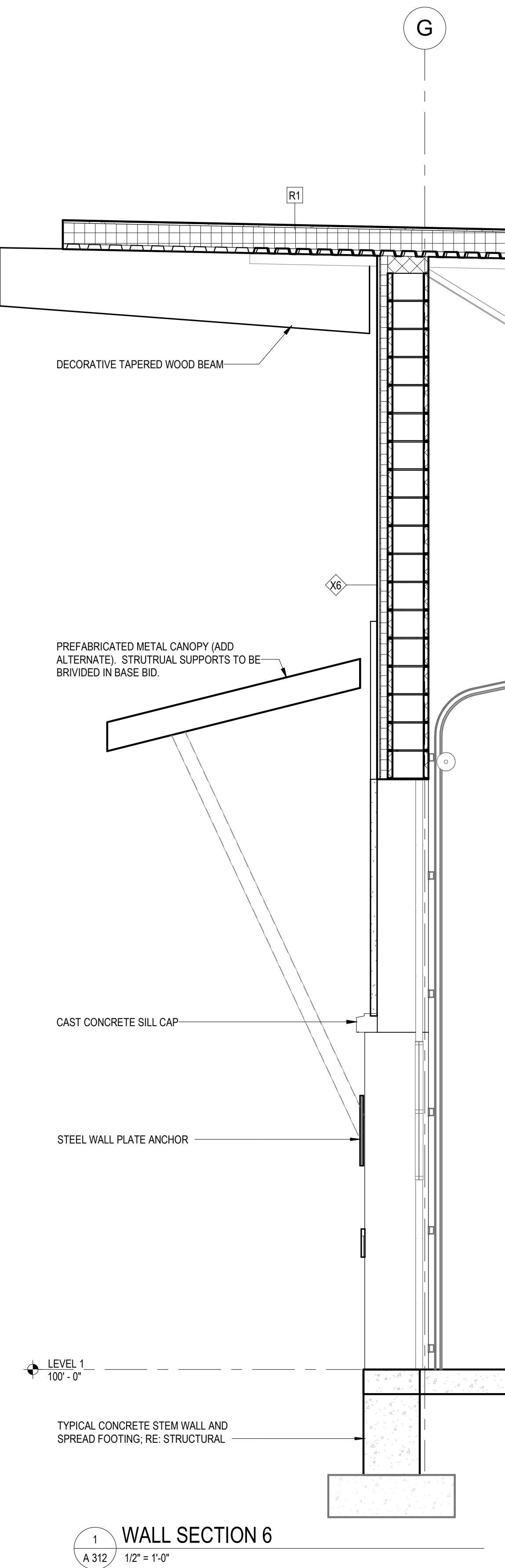
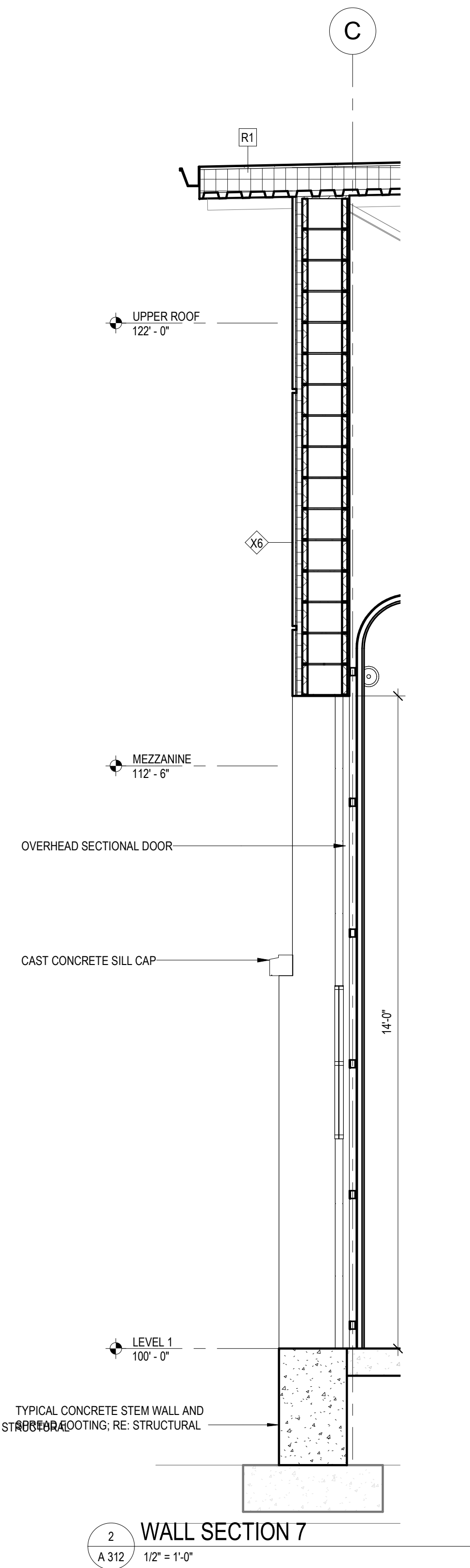
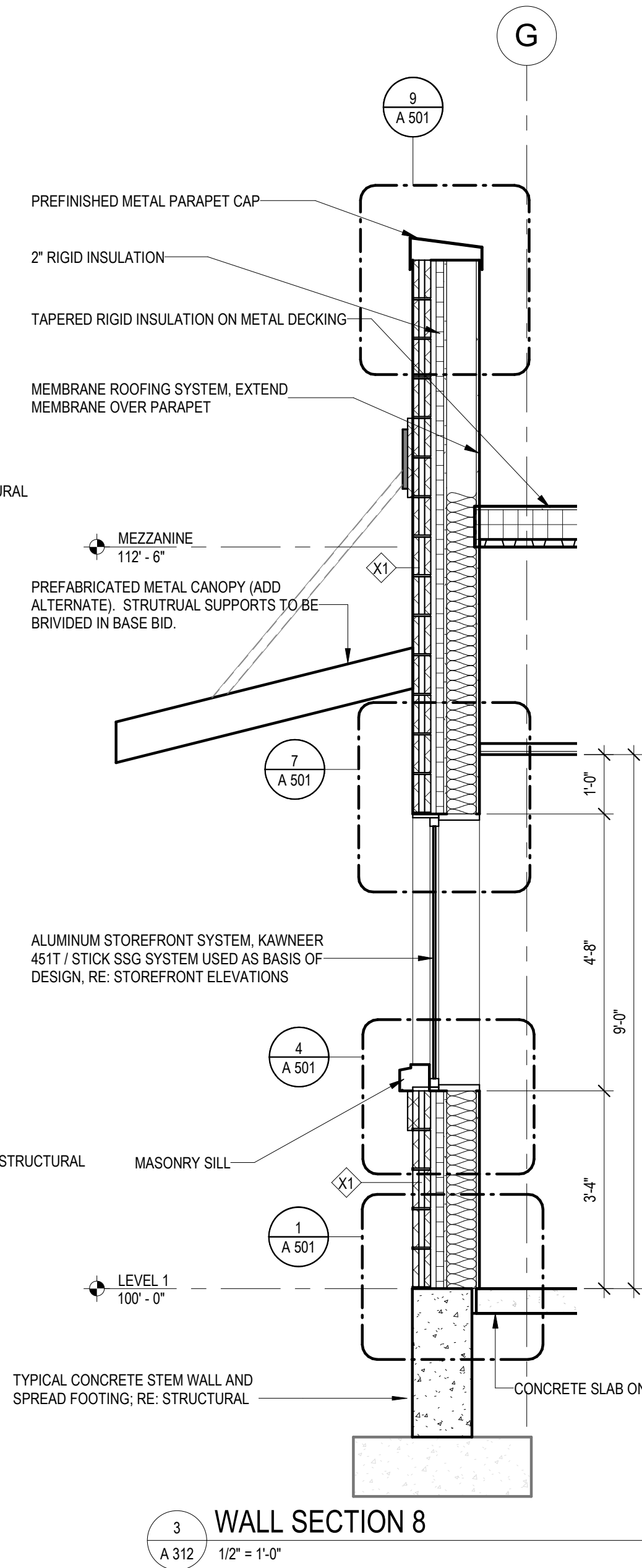
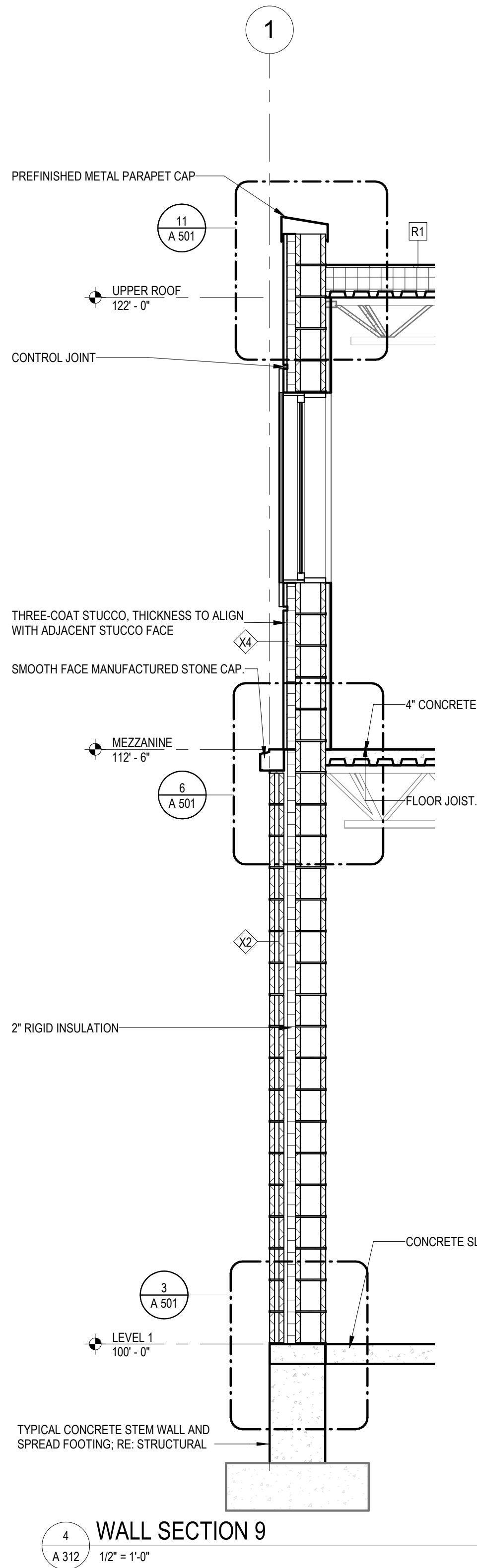
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75% DESIGN

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07/19/2019
09/13/2019

Revision Issue
Rev. # Description Date

WALL SECTIONS

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City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/Civil Engineer/Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.368.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

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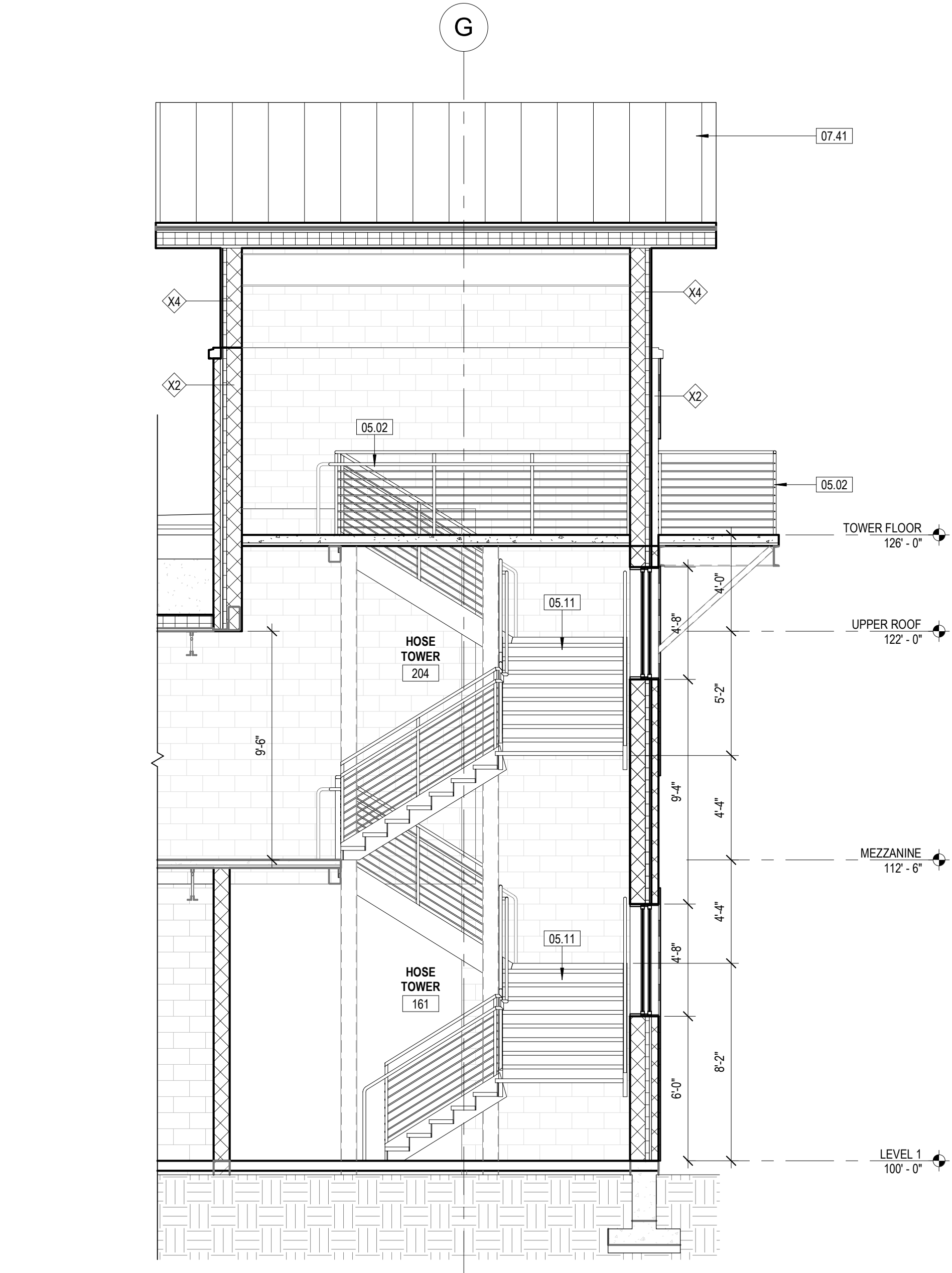
Issue Date
07/19/2019
09/13/2019

Revision Issue

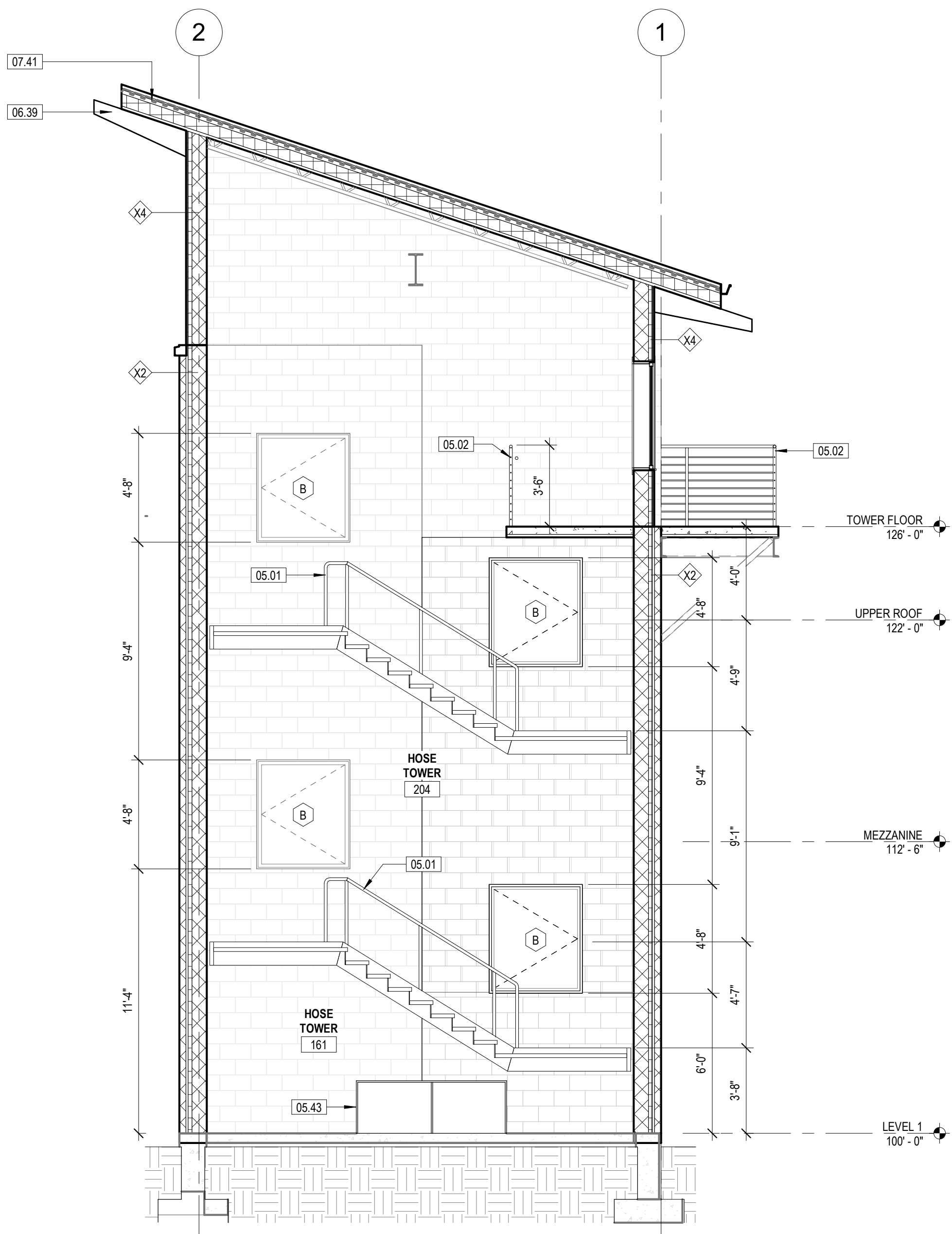
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WALL SECTIONS

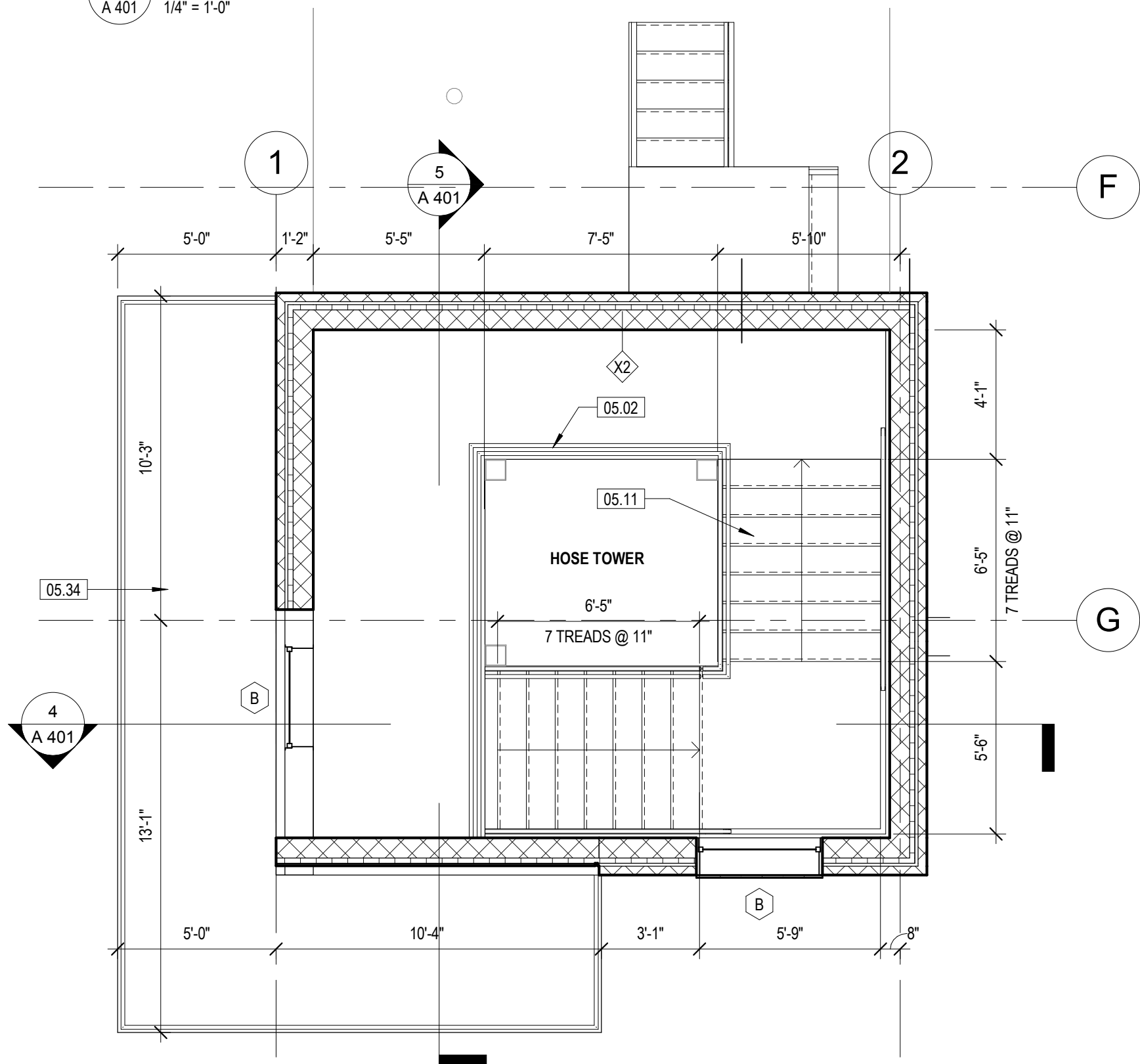
A
312



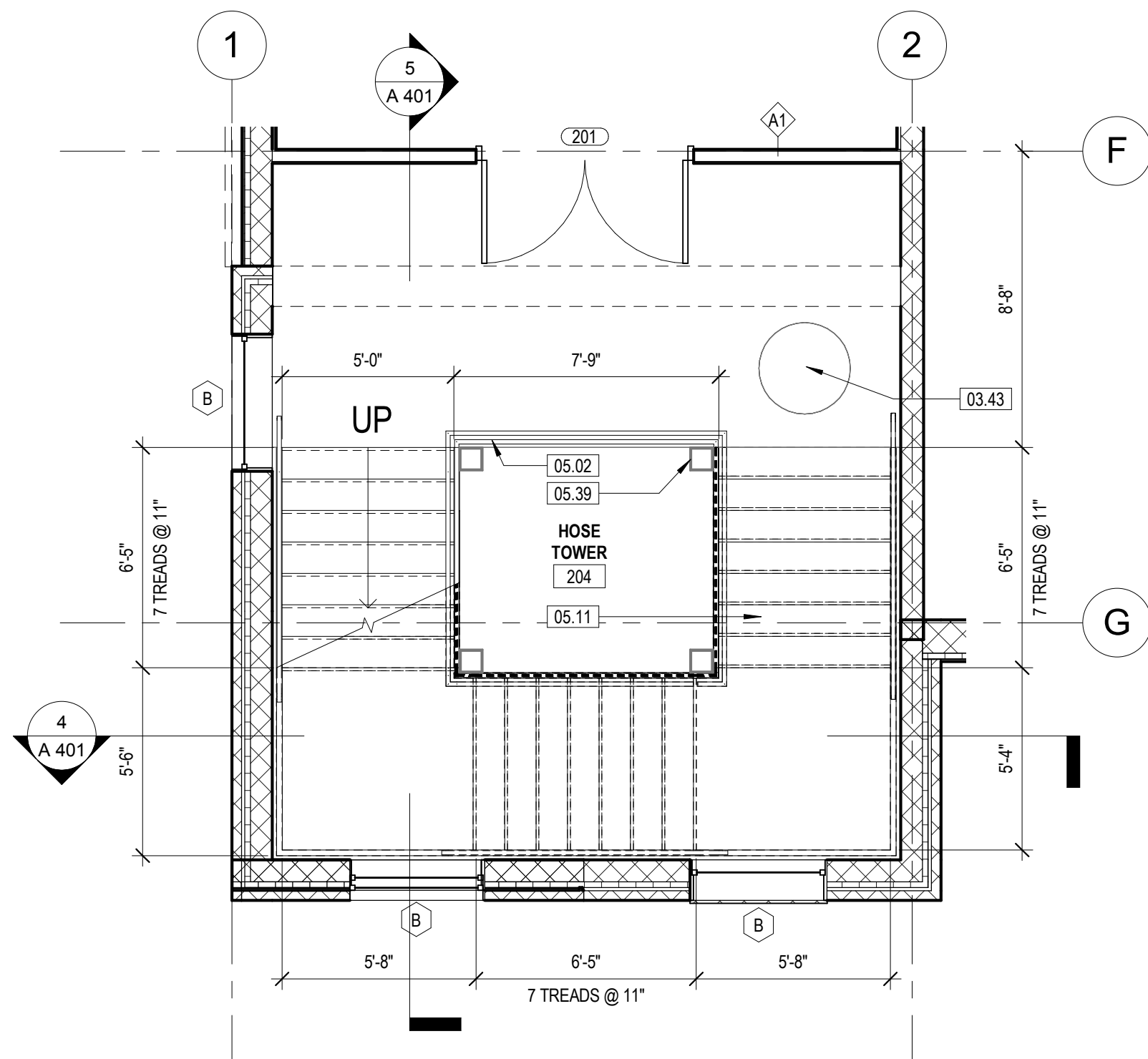
5 HOSE TOWER SECTION
A 401 1/4" = 1'-0"



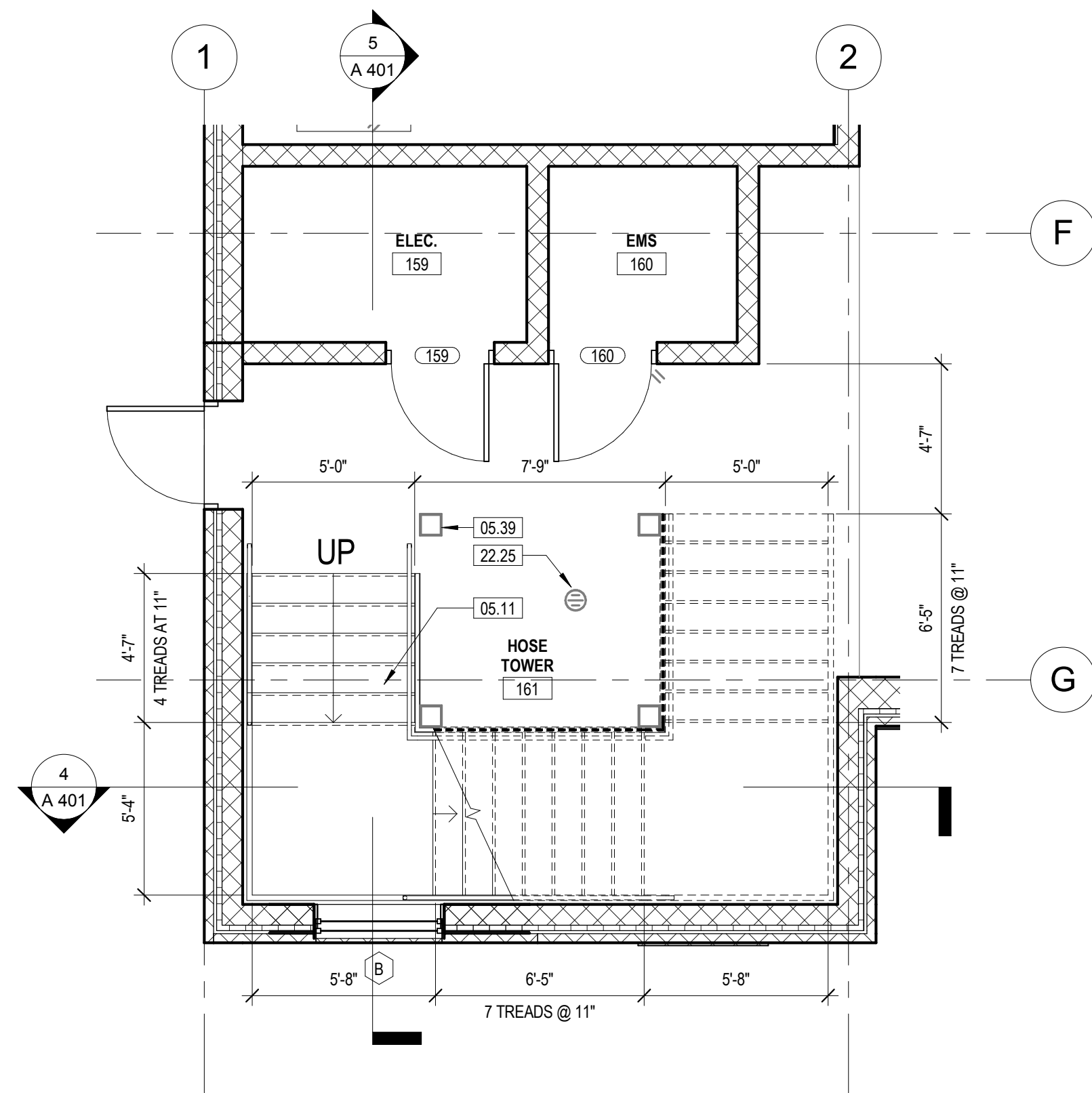
4 HOSE TOWER SECTION
A 401 1/4" = 1'-0"



3 HOSE TOWER STAIRS LEVEL 3
A 401 1/4" = 1'-0"



2 HOSE TOWER STAIRS LEVEL 2
A 401 1/4" = 1'-0"



1 HOSE TOWER STAIRS LEVEL 1
A 401 1/4" = 1'-0"

- KEYNOTES**
- 03.43 CONFINED SPACE TRAINING MANHOLE COVER WITH OPENING TO LOWER LEVEL, RE: STRUCTURE
 - 05.01 PAINTED STEEL HANDRAIL
 - 05.02 PAINTED STEEL HANDRAIL / GUARDRAIL SYSTEM
 - 05.11 FABRICATED METAL STAIRS
 - 05.34 TRAINING PLATFORM WITH PAINTED STEEL RAILING
 - 05.39 STRUCTURAL STEEL COLUMN, RE: STRUCTURAL
 - 05.43 CANE DETECTION RAIL
 - 06.39 DECORATIVE TAPERED WOOD BEAM
 - 07.41 26 GA. STANDING SEAM METAL ROOF OVER HIGH TEMP ICE AND WATER SHIELD
 - 22.25 FLOOR DRAIN, RE: PLUMBING

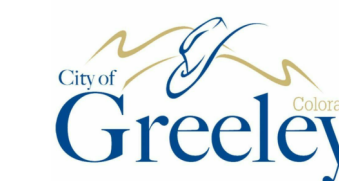
Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/Civil Engineer/Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.388.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

City of Greeley
GREELEY FIRE STATION #6
10603 20TH ST, GREELEY COLORADO 80634



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SEH Project
Checked By
Drawn By

150268
CS
CS/HHB

Project Status
30% DESIGN
75% DESIGN

Issue Date
07/19/2019
09/13/2019

Revision Issue

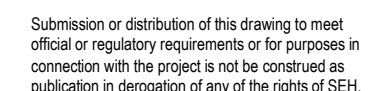
Rev. #	Description	Date
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VERTICAL CIRCULATION PLANS
AND SECTIONS

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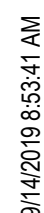
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

10603 20TH ST, GREELEY COLORADO 80634

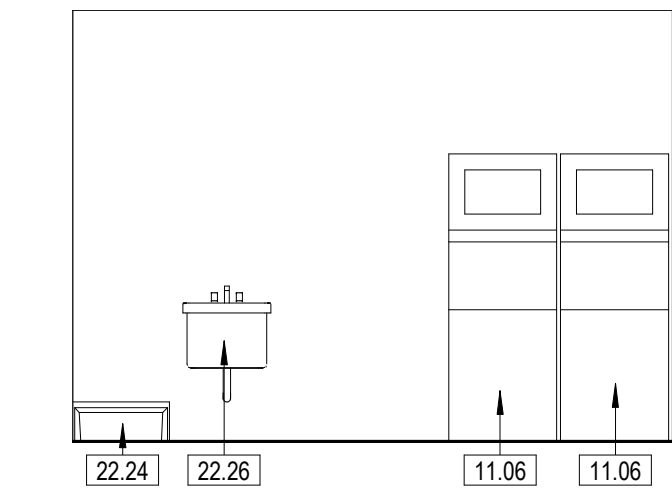


Revision Issue		
Rev. #	Description	Date

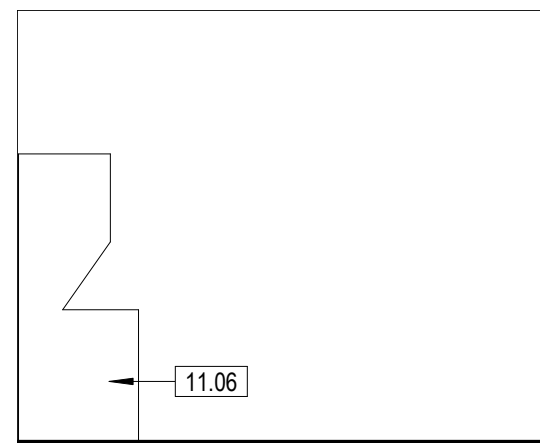
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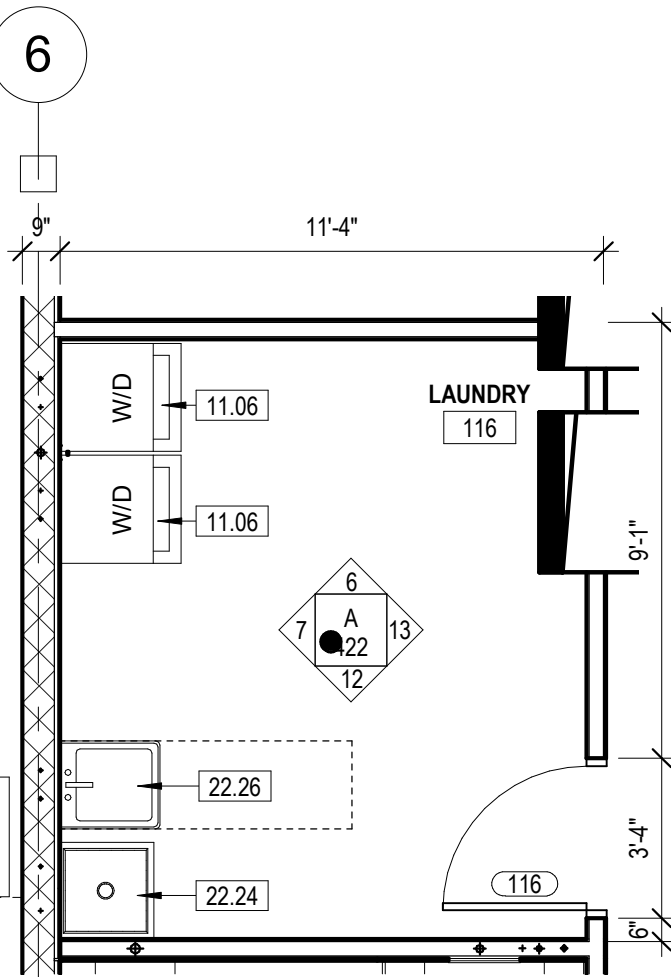
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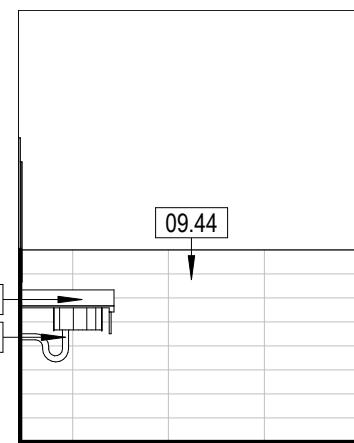
7 LAUNDRY - WEST
A 422 1/4" = 1'-0"



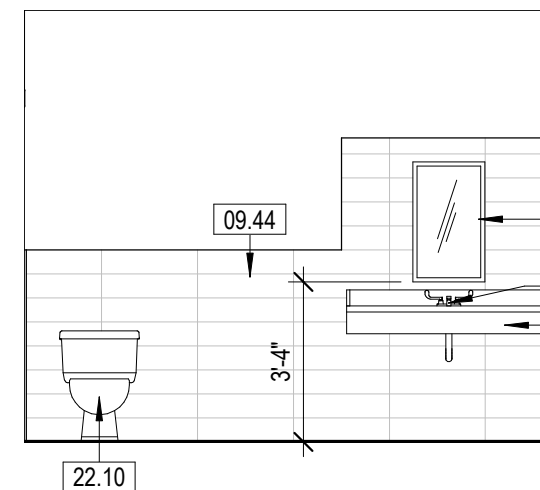
6 LAUNDRY NORTH
A 422 1/4" = 1'-0"



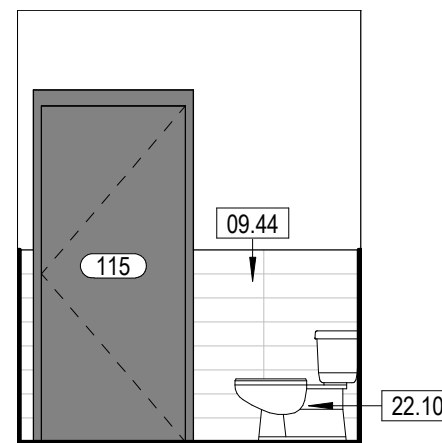
5 ENLARGED LAUNDRY PLAN
A 422 1/4" = 1'-0"



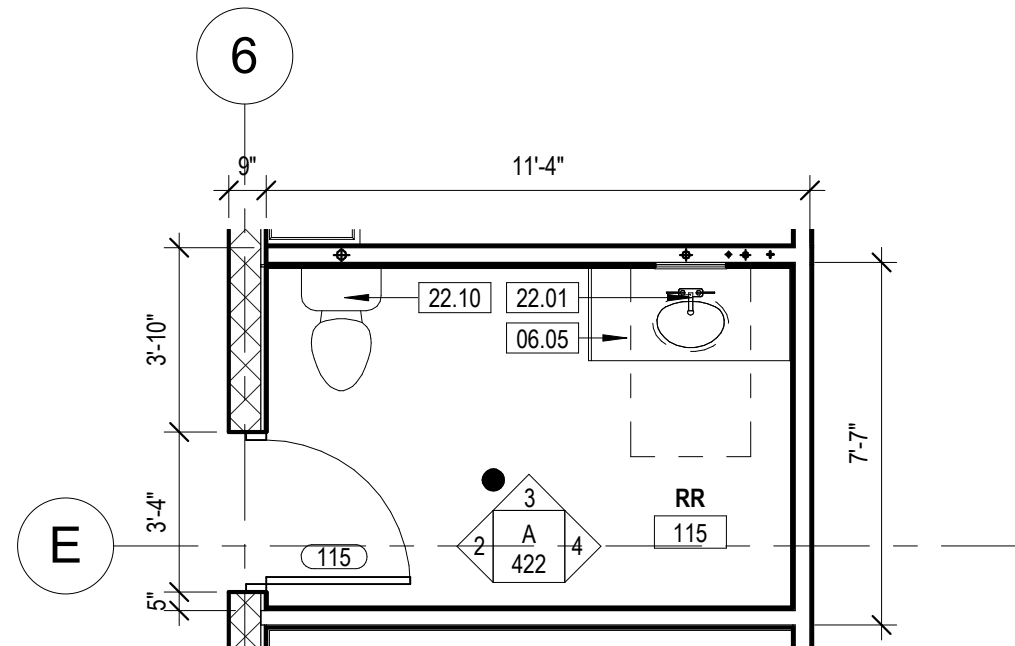
4 STAFF RR - EAST
A 422 1/4" = 1'-0"



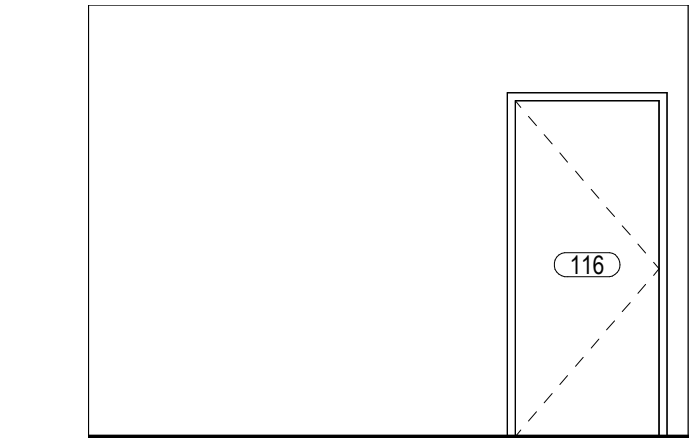
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A 422 1/4" = 1'-0"



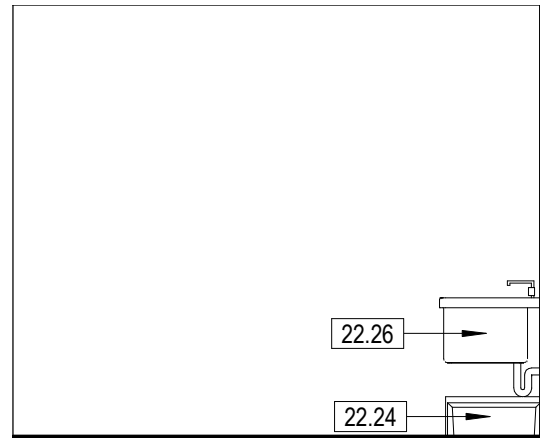
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A 422 1/4" = 1'-0"



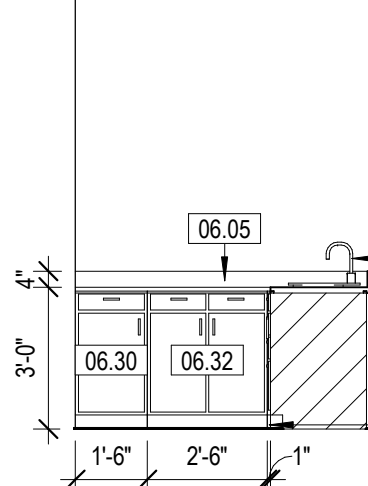
1 ENLARGED STAFF RR PLAN
A 422 1/4" = 1'-0"



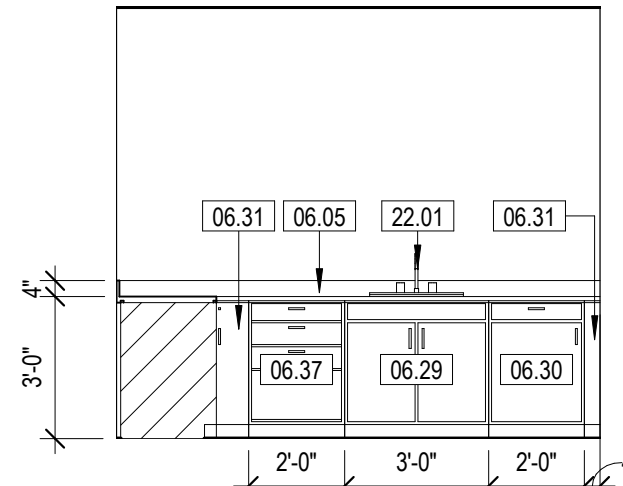
13 LAUNDRY - EAST
A 422 1/4" = 1'-0"



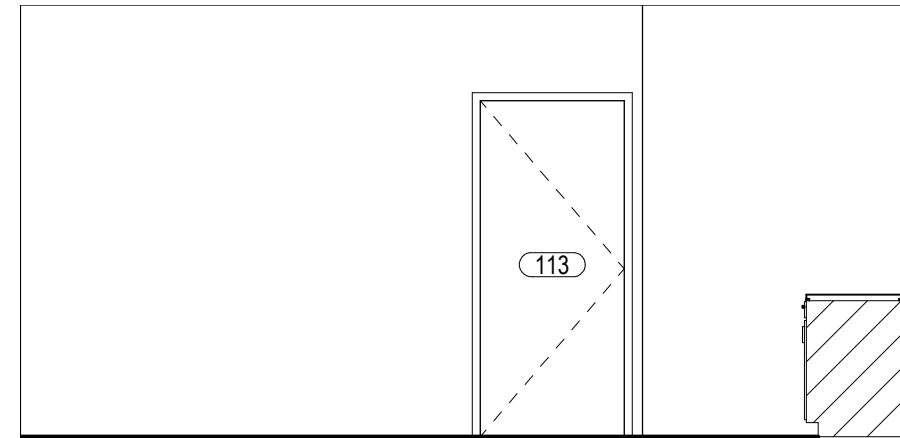
12 LAUNDRY - SOUTH
A 422 1/4" = 1'-0"



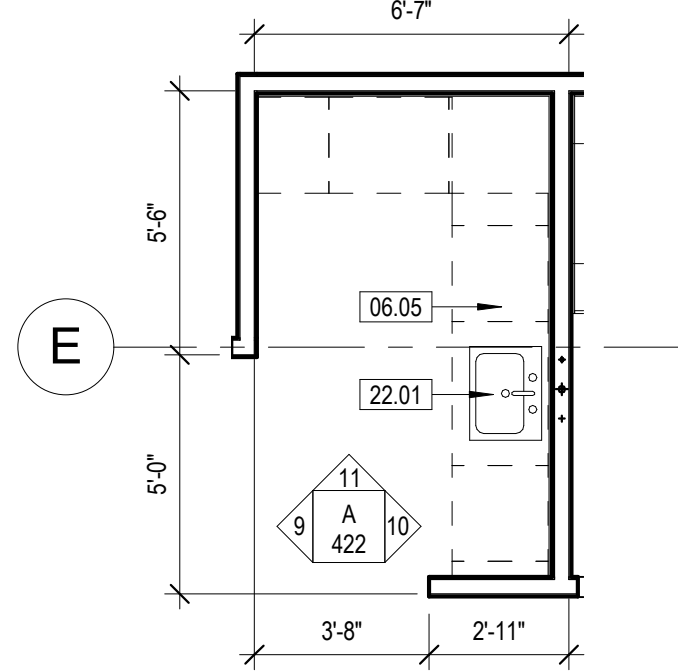
11 KITCHENETTE NORTH
A 422 1/4" = 1'-0"



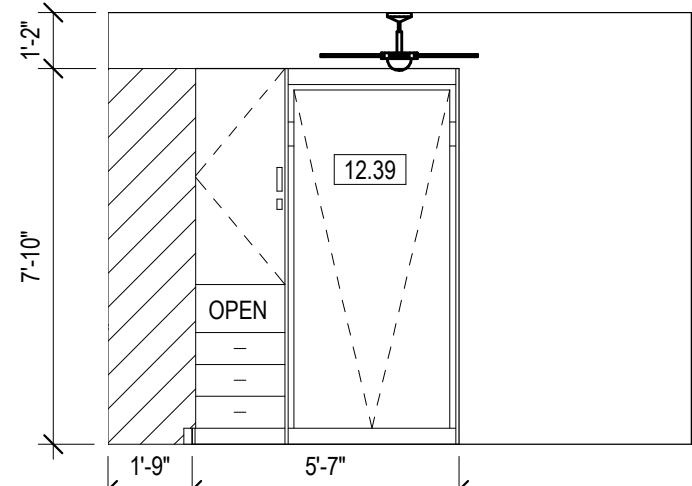
10 KITCHENETTE EAST
A 422 1/4" = 1'-0"



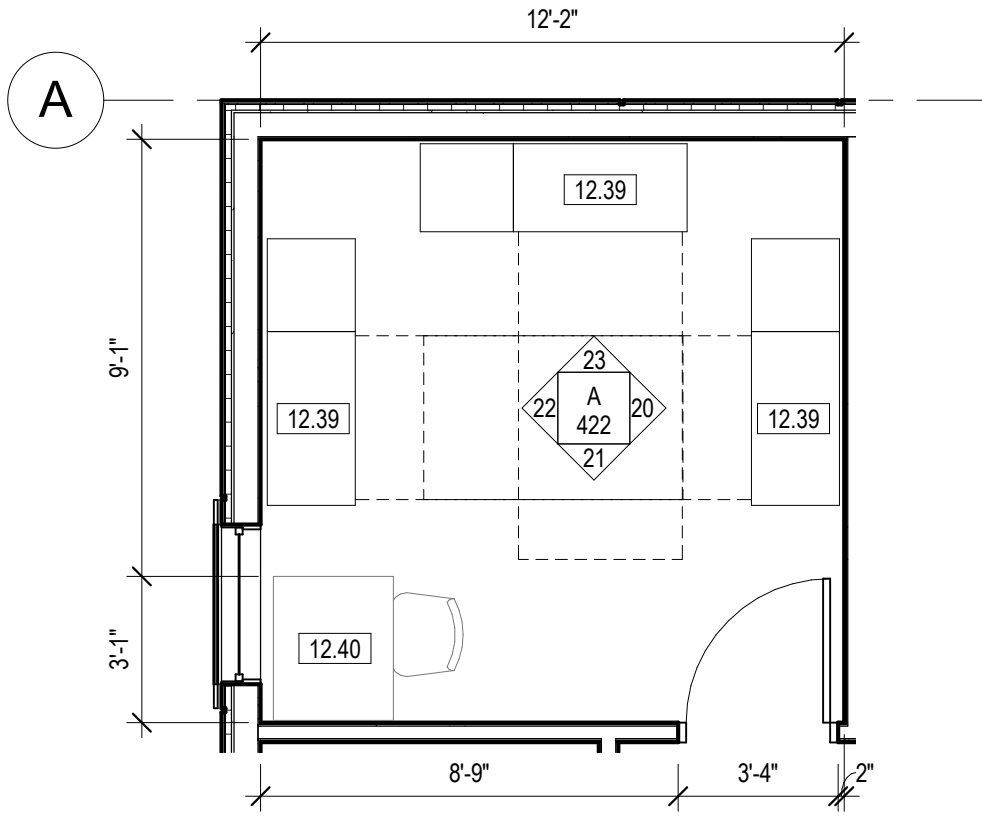
9 KITCHENETTE WEST
A 422 1/4" = 1'-0"



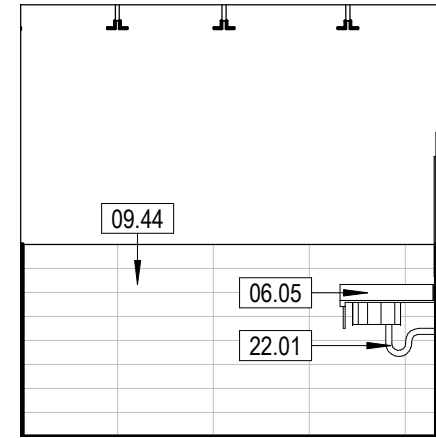
8 ENLARGED KITCHENETTE PLAN
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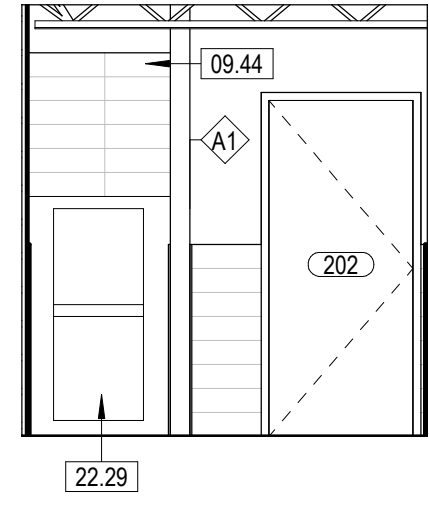
20 BUNK ROOM - EAST
A 422 1/4" = 1'-0"



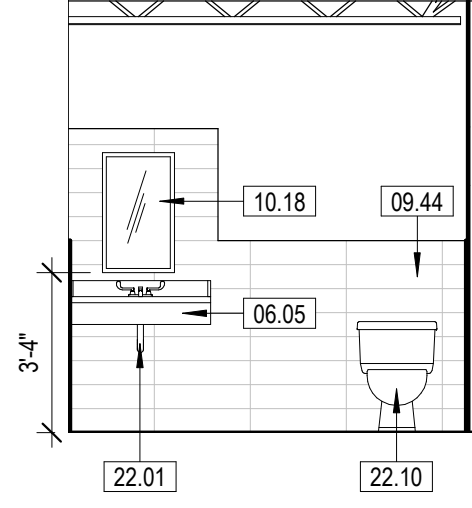
19 ENLARGED BUNK ROOM PLAN
A 422 1/4" = 1'-0"



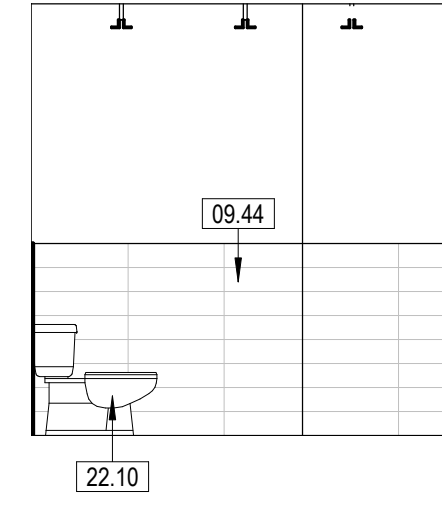
18 SHOWER WEST
A 422 1/4" = 1'-0"



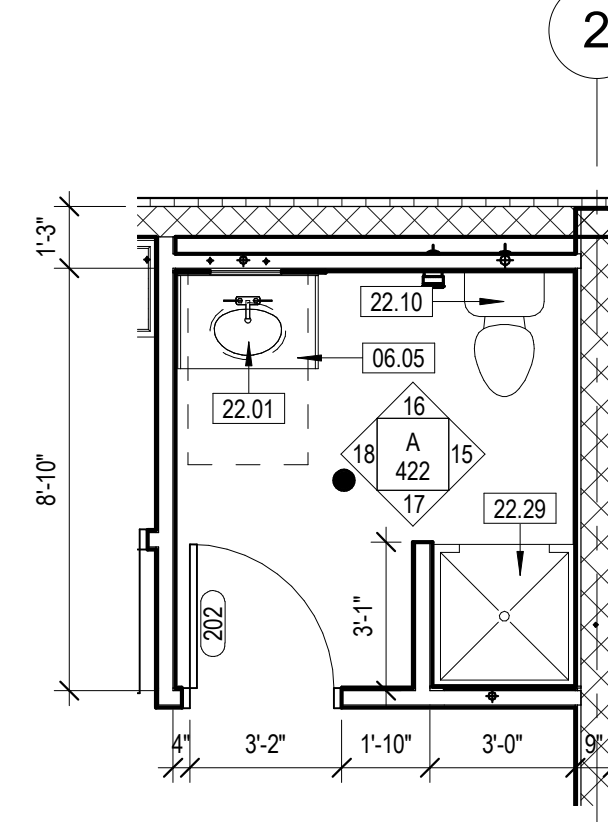
17 SHOWER SOUTH
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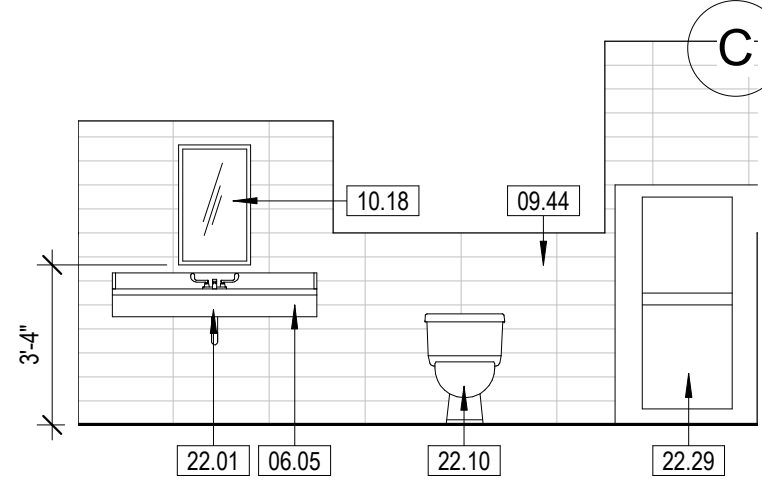
16 SHOWER NORTH
A 422 1/4" = 1'-0"



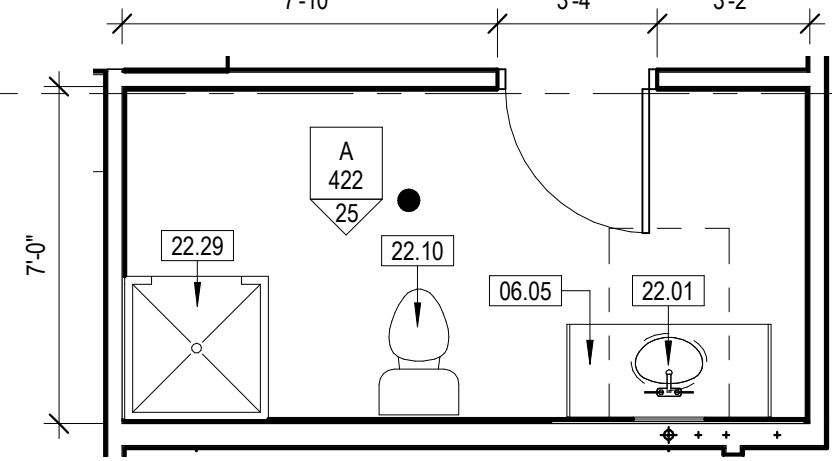
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A 422 1/4" = 1'-0"



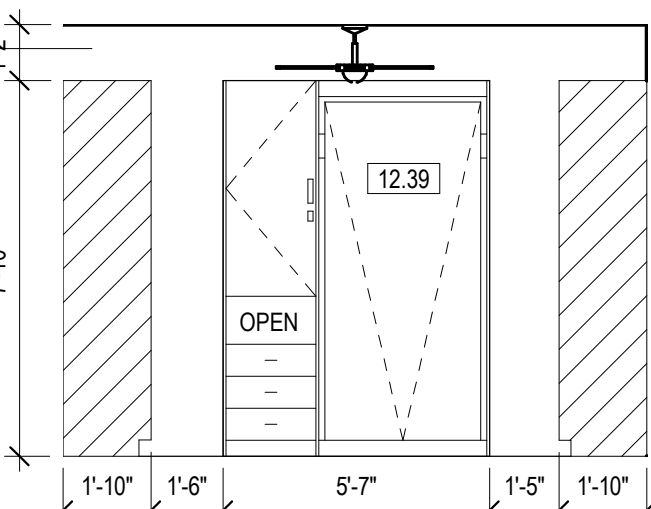
14 ENLARGED SHOWER PLAN
A 422 1/4" = 1'-0"



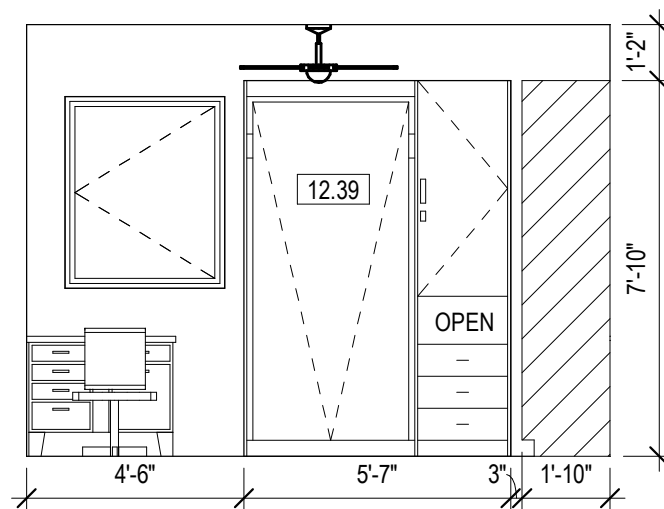
25 BC BATHROOM - SOUTH
A 422 1/4" = 1'-0"



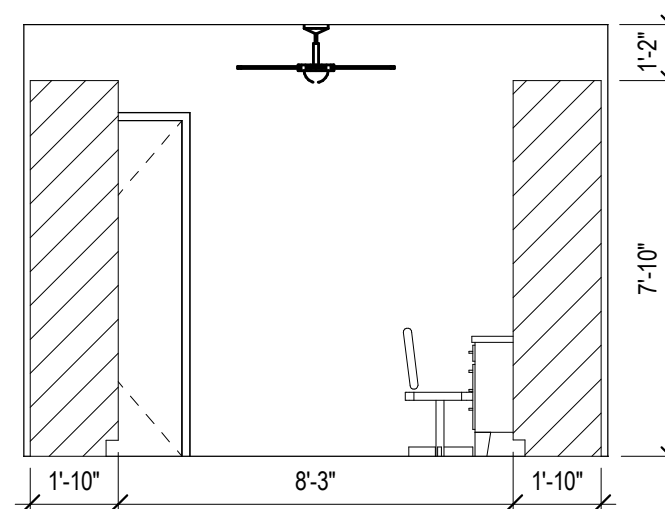
24 ENLARGED BC BATHROOM
A 422 1/4" = 1'-0"



23 BUNK ROOM - NORTH
A 422 1/4" = 1'-0"



22 BUNK ROOM - WEST
A 422 1/4" = 1'-0"



21 BUNK ROOM - SOUTH
A 422 1/4" = 1'-0"

- KEYNOTES**
- 06.05 SOLID SURFACE COUNTERTOP WITH TILE OR SOLID SURFACE BACKPLASH, BY OWNER
 - 06.29 34-1/2" TALL BASE CABINET DOUBLE DOOR SINK COVER PANEL, BY OWNER
 - 06.30 34-1/2" TALL SINGLE DOOR BASE CABINET WIADJUSTABLE SHELVES & (1) DRAWER, BY OWNER
 - 06.31 34-1/2" TALL BASE CABINET FILLER, BY OWNER
 - 06.32 34-1/2" TALL DOUBLE DOOR BASE CABINET WIADJUSTABLE SHELVES & (2) DRAWERS, BY OWNER
 - 06.37 34" TALL BASE CABINET W/ (4) DRAWERS, BY OWNER
 - 09.44 WALL CERAMIC TILE COLOR 1, RE. SPEC
 - 10.18 MIRROR, 18" x 30", BY OWNER
 - 11.06 OWNER SUPPLIED DRYER/WASHER COMBO
 - 12.39 TWIN XL FOLD-OUT WALL BED W/ INTEGRATED STORAGE, BY OWNER
 - 12.40 WALL-MOUNTED DESK W/ PENCIL DRAWER, BY OWNER
 - 22.01 OWNER SUPPLIED UNDERMOUNT SINK, DEEP BOWL. RE: PLUMBING
 - 22.10 OWNER SUPPLIED WATER CLOSET, RE: PLUMBING
 - 22.24 MOP SINK, RE: PLUMBING
 - 22.26 UTILITY SINK, BY OWNER
 - 22.29 MESA 502 WALK-IN SHOWER 36" X 36" - CONTRACTOR FURNISHED; CONTRACTOR INSTALLED

NOT FOR
CONSTRUCTION

Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHV Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.588.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

City of Greeley
GREELEY FIRE STATION #6
10603 20TH ST, GREELEY COLORADO 80634

City of Greeley
Greeley
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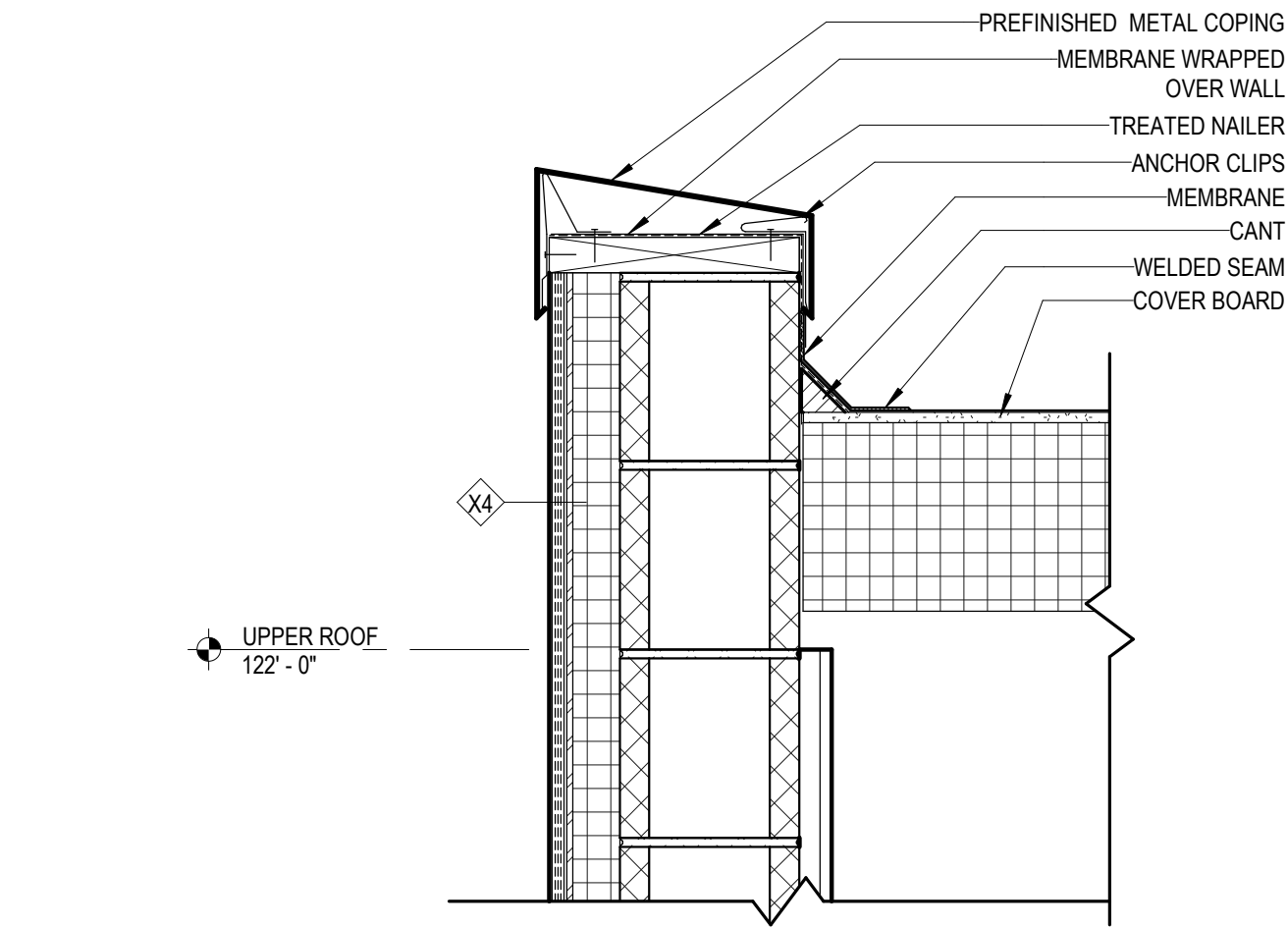
SEH Project 150268
Checked By CS
Drawn By CS/UHBB
Project Status Issue Date
30% DESIGN 07/19/2019
75% DESIGN 09/13/2019

Revision Issue
Rev. # Description Date

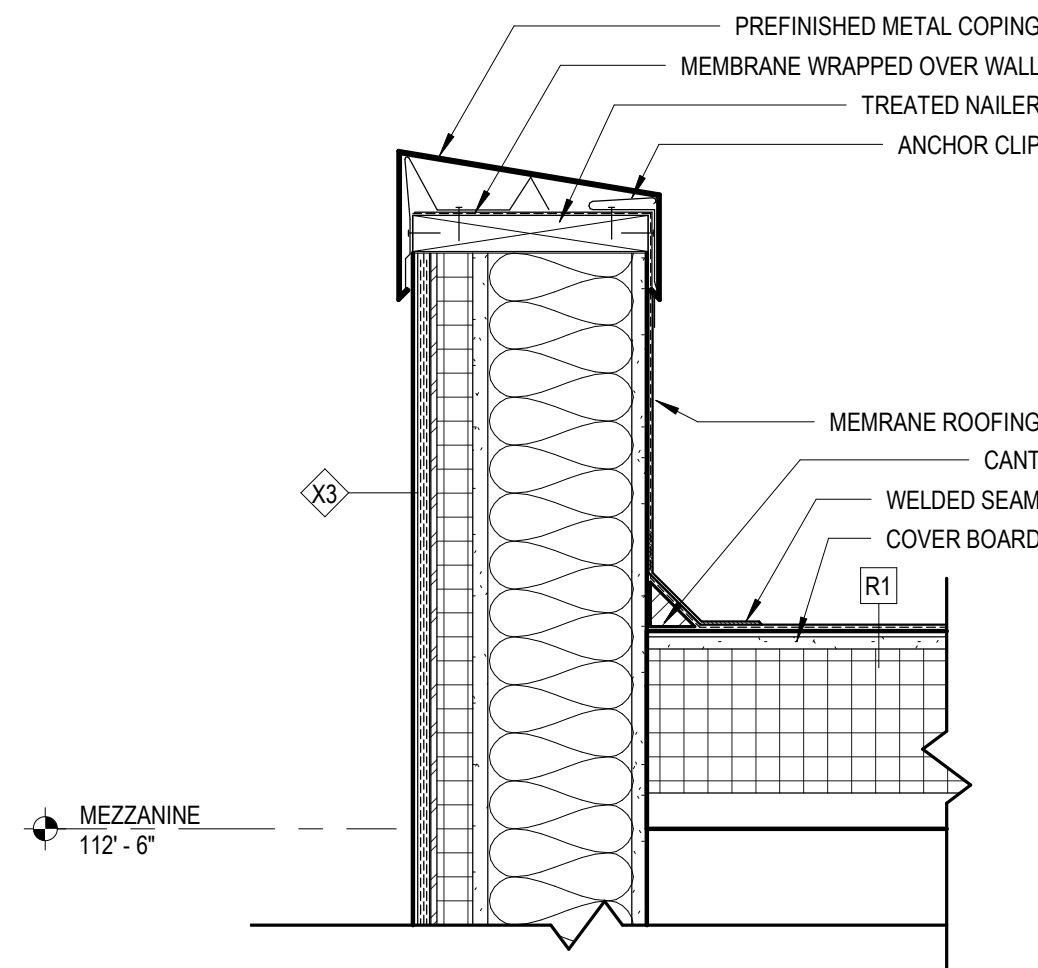
ENLARGED RESTROOM PLANS
AND INTERIOR ELEVATIONS

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422

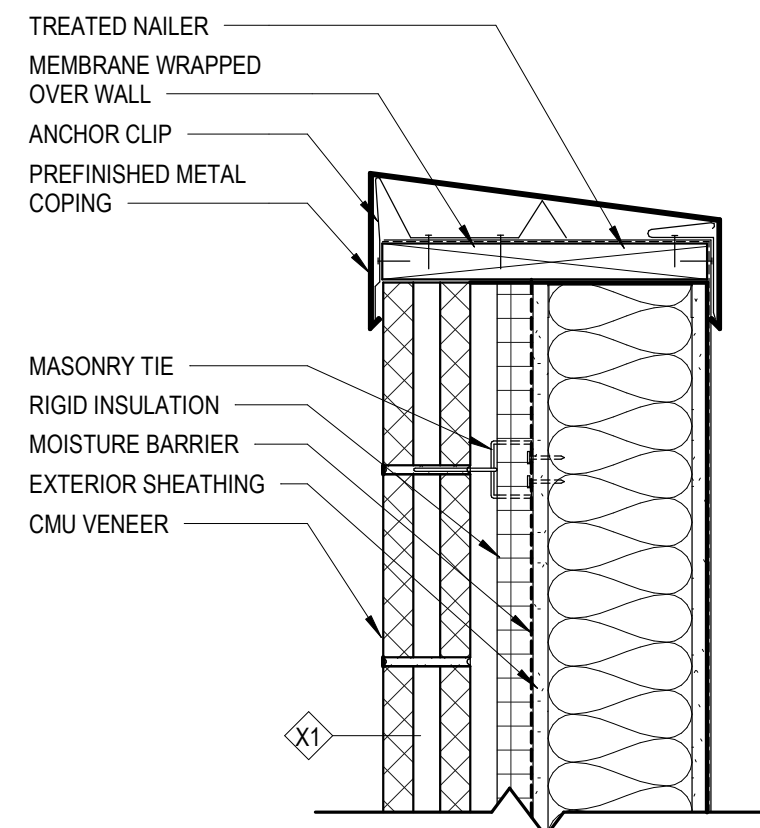
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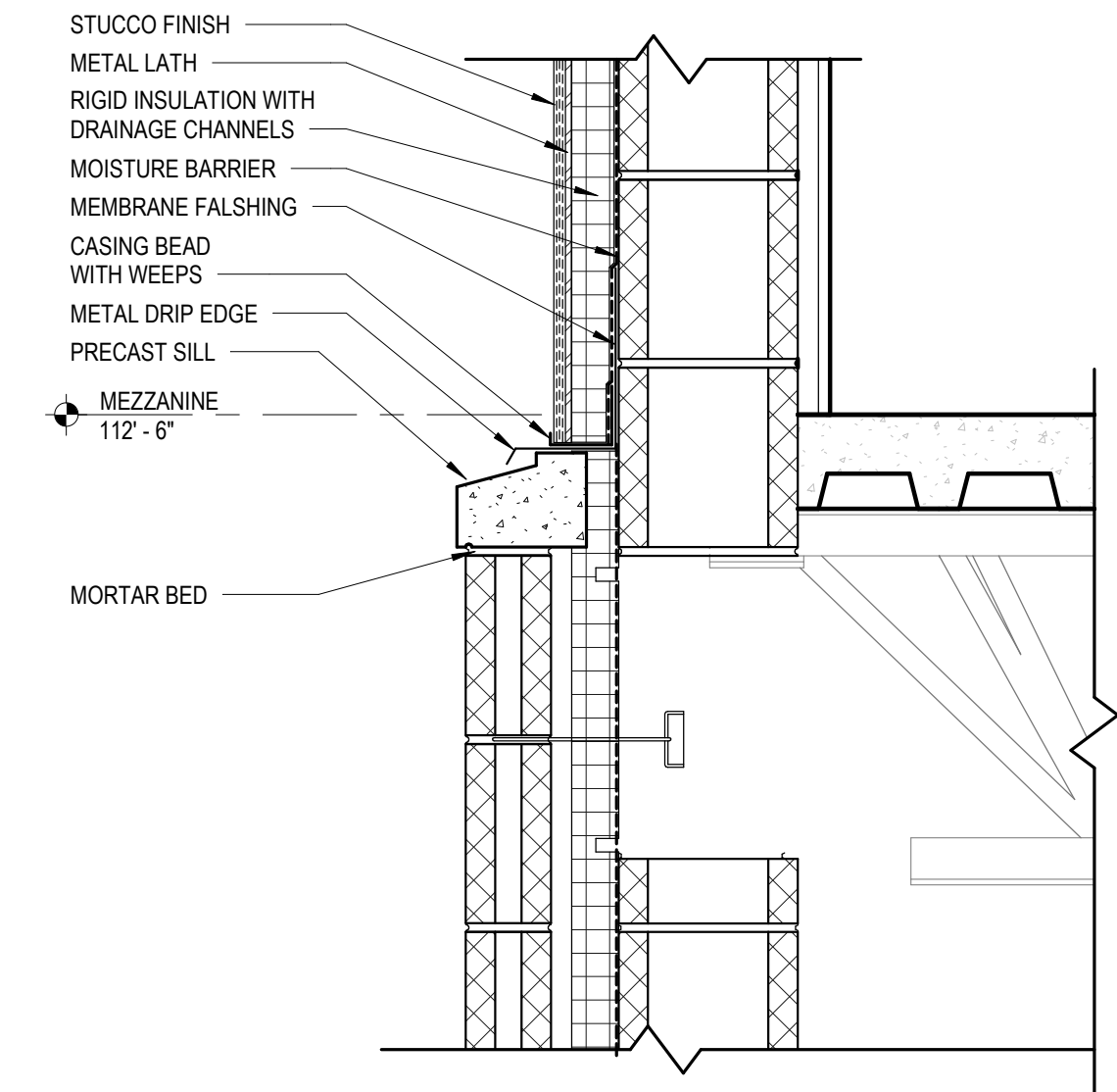
11 MEMBRANE ROOF EDGE DETAIL
A 501 1 1/2" = 1'-0"



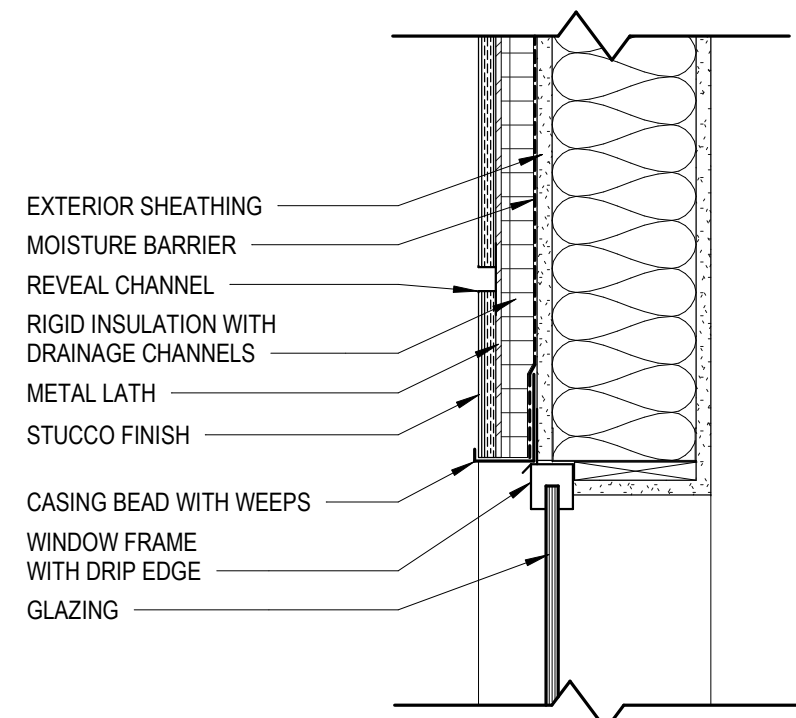
10 MEMBRANE PARAPET DETAIL
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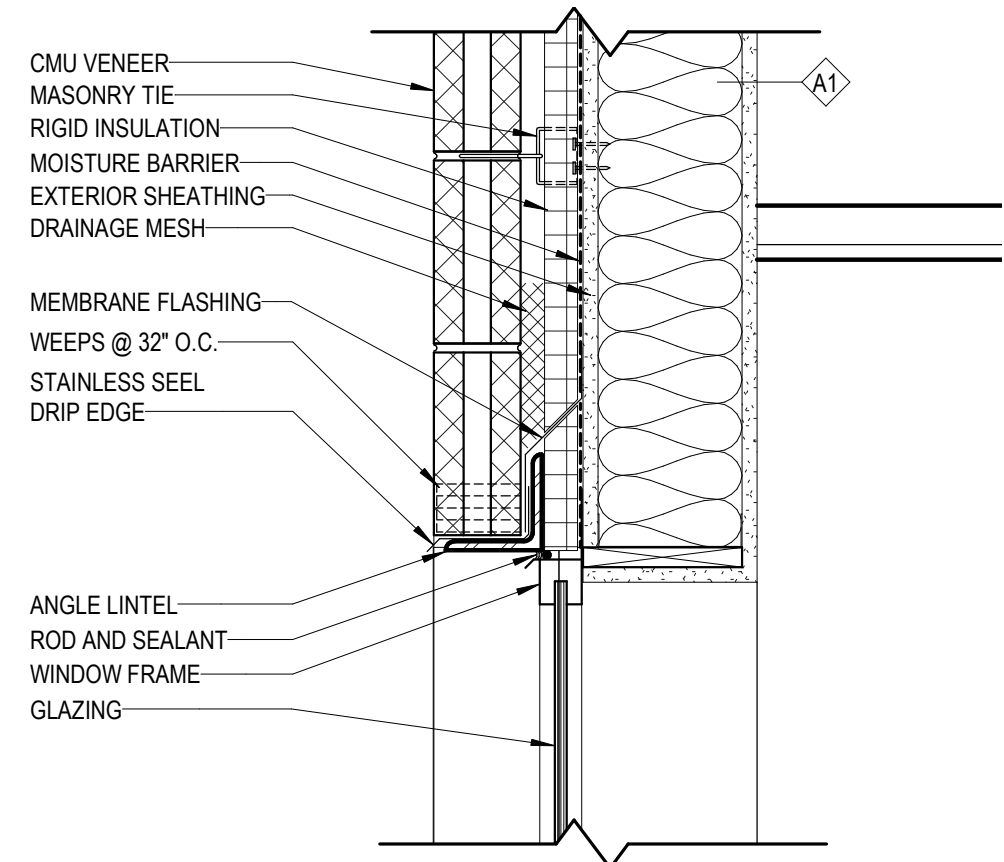
9 MEMBRANE CAP DETAIL
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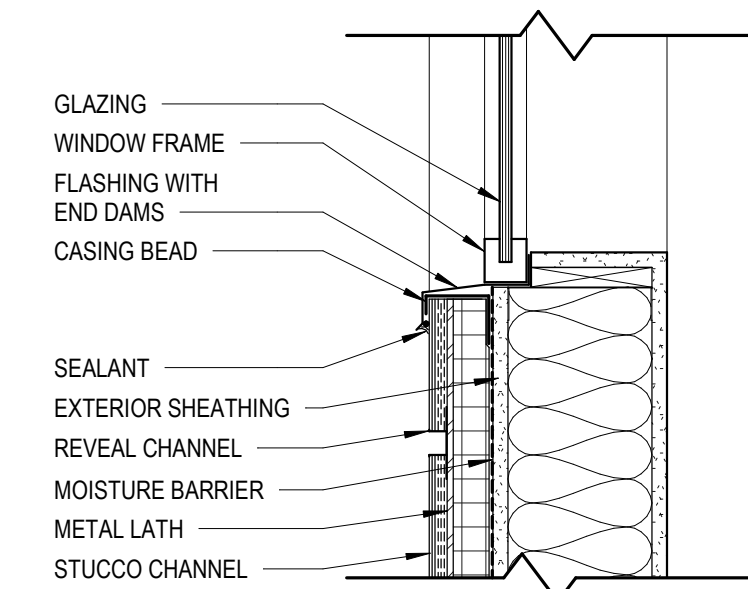
6 WALL TRANSITION DETAIL
A 501 1 1/2" = 1'-0"



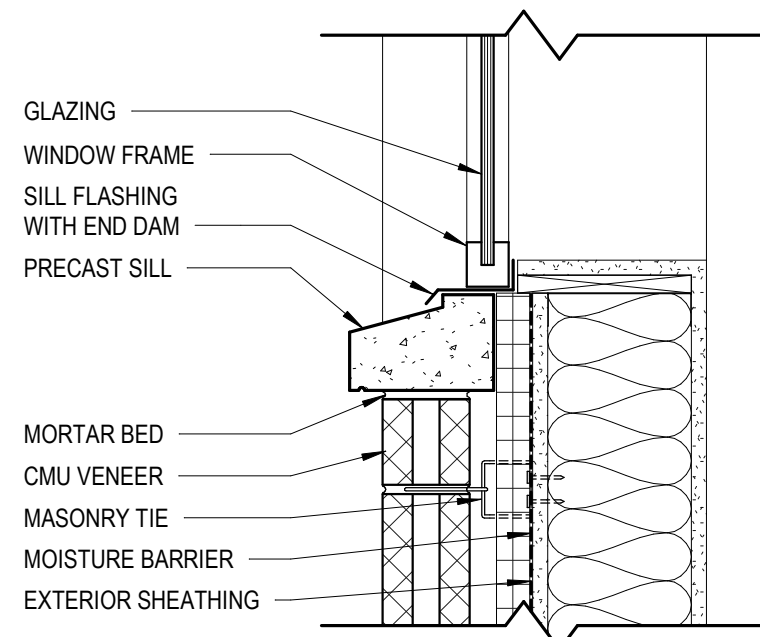
8 STUCCO WINDOW HEAD DETAIL
A 501 1 1/2" = 1'-0"



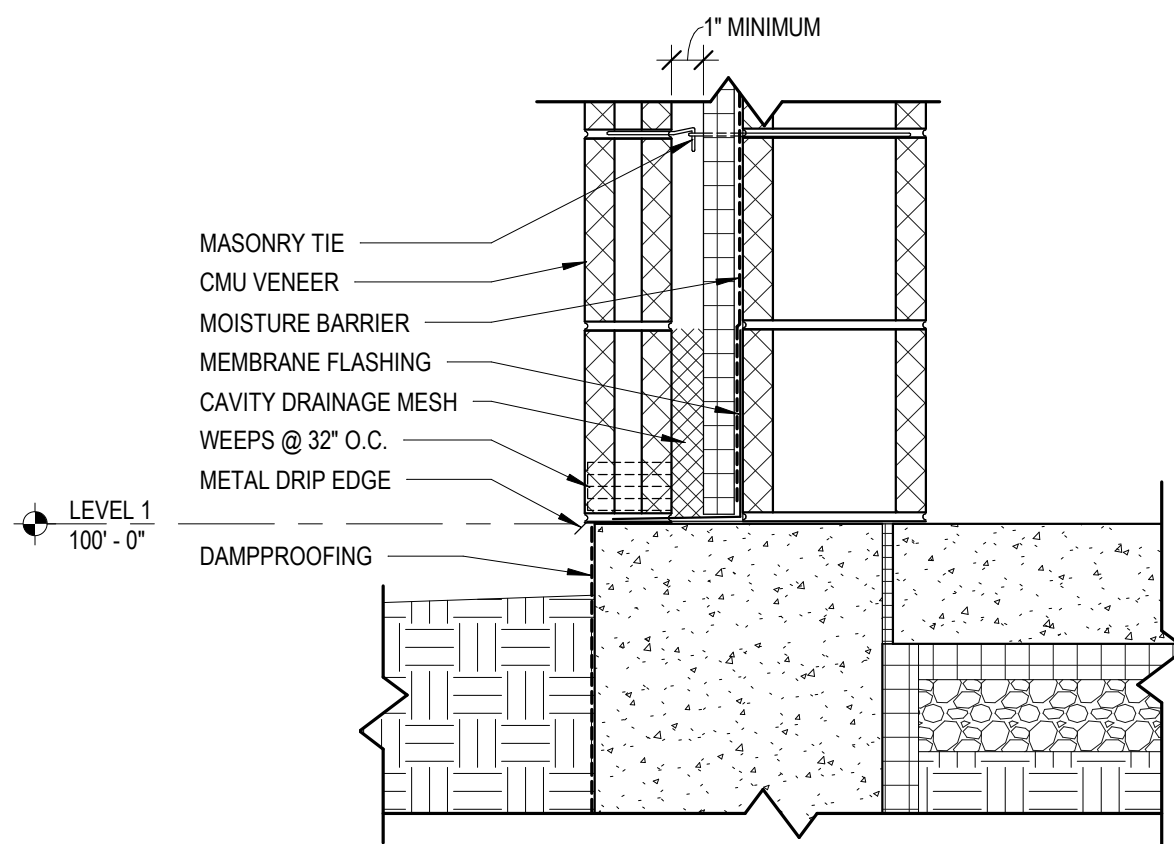
7 CMU WINDOW HEAD DETAIL
A 501 1 1/2" = 1'-0"



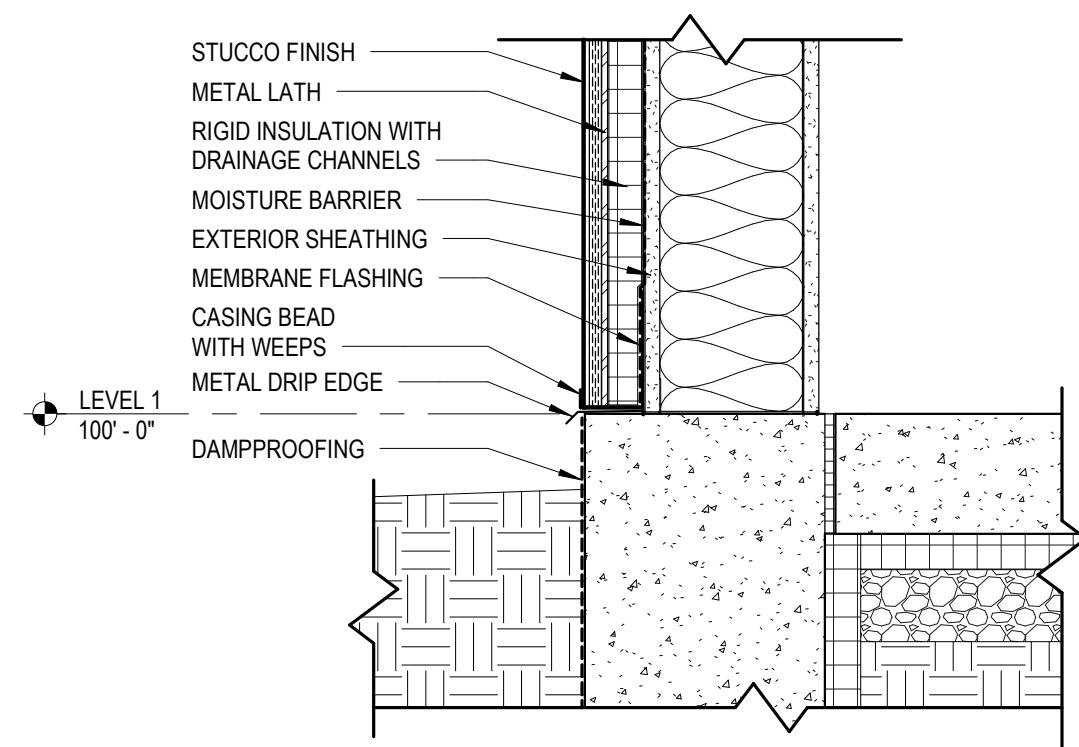
5 STUCCO WINDOW SILL DETAIL
A 501 1 1/2" = 1'-0"



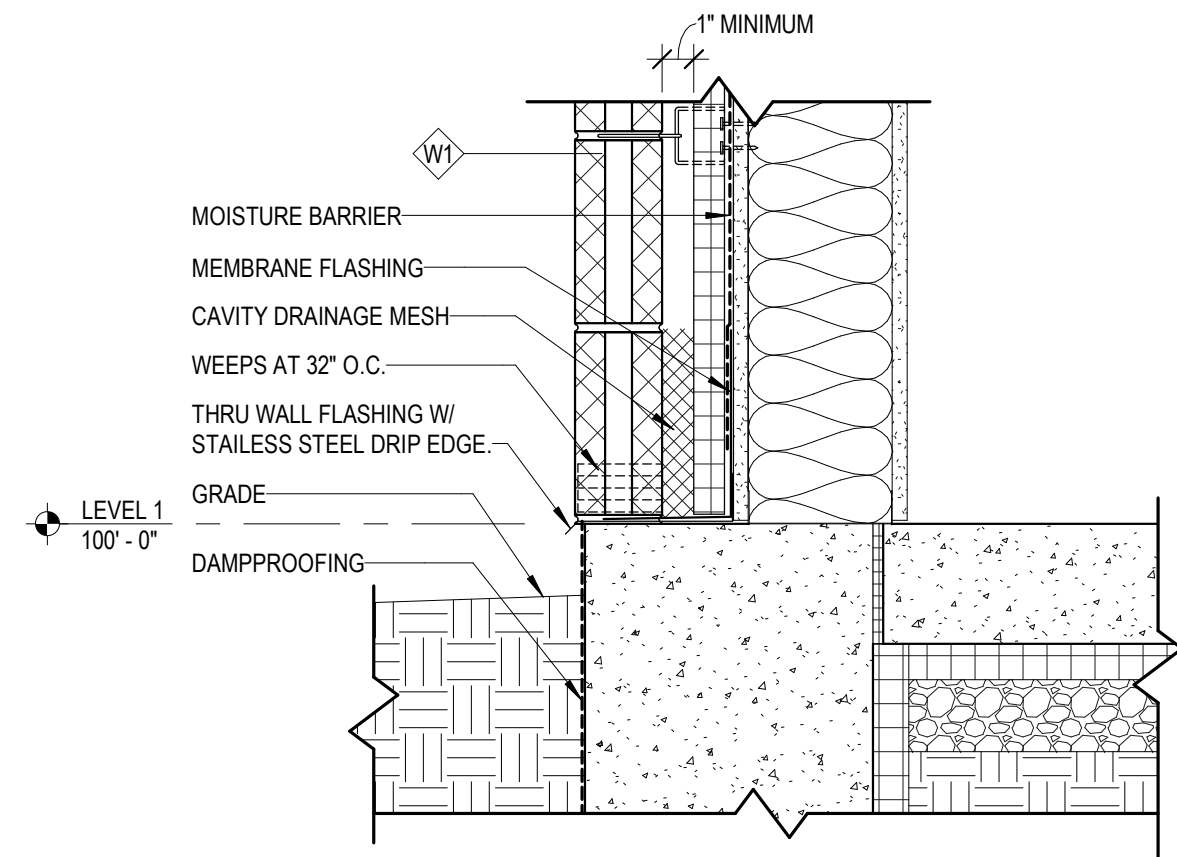
4 CMU WINDOW SILL DETAIL
A 501 1 1/2" = 1'-0"



3 SLAB ON GRADE TO BLOCK-CMU WALL
A 501 1 1/2" = 1'-0"



2 SLAB ON GRADE TO STUD-STUCCO WALL
A 501 1 1/2" = 1'-0"



1 SLAB ON GRADE TO STUD-BLOCK WALL
A 501 1 1/2" = 1'-0"

Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/Civil Engineer/Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
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720.540.6800
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2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.368.4514

Electrical Engineer
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11646 Sun Bear Trail
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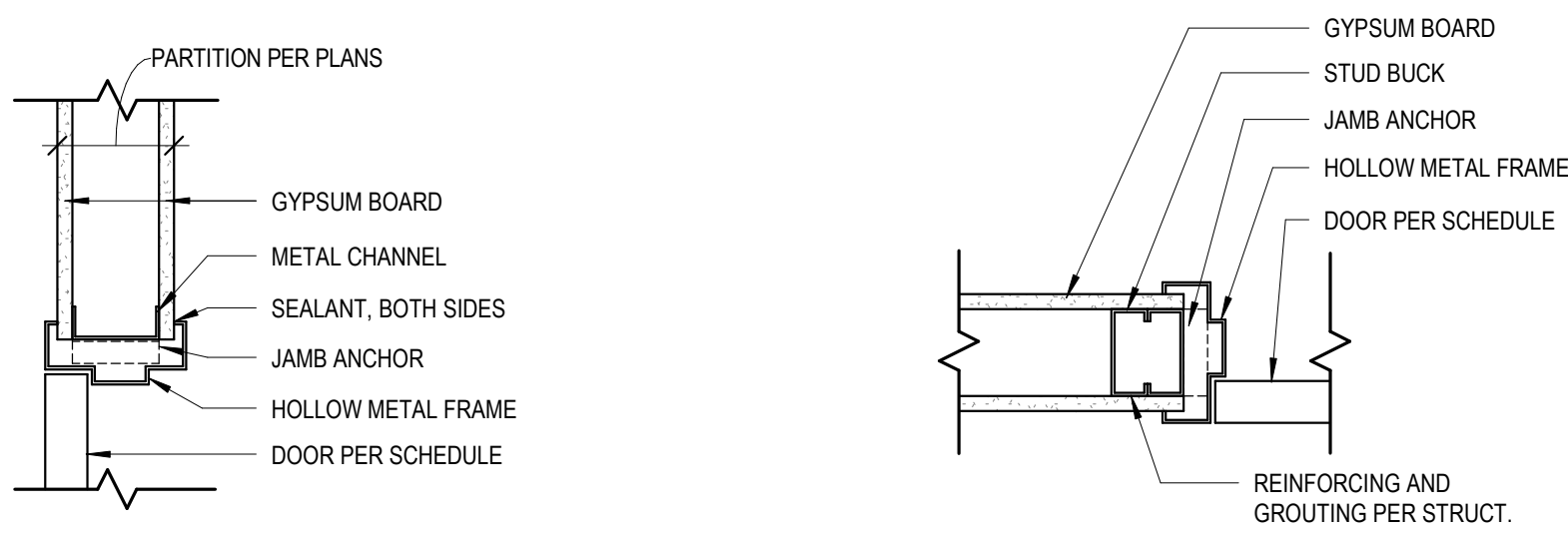
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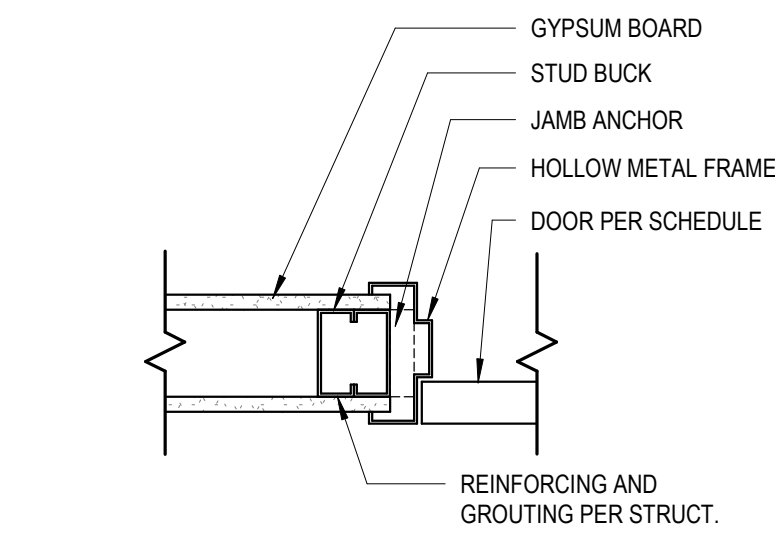
Project Status Issue Date
30% DESIGN 07/19/2019
75% DESIGN 09/13/2019

Rev. #	Description	Date
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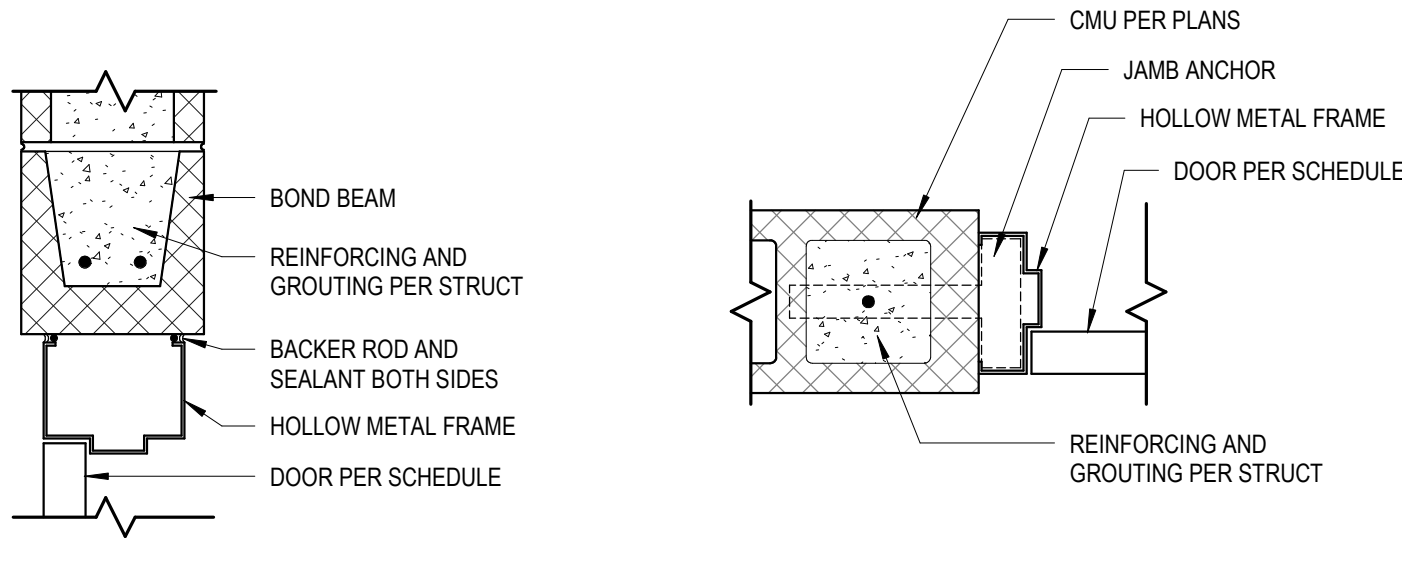
EXTERIOR DETAILS



12 HM HEAD AT GYP BD PARTITION
A 601 1 1/2" = 1'-0"

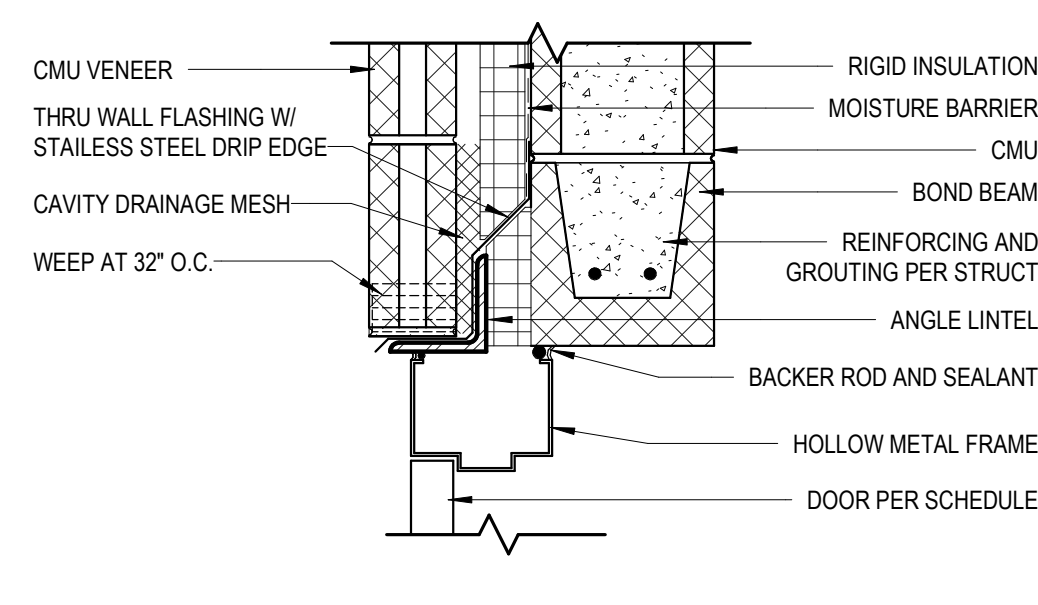


11 HM JAMB AT GYP BD PARTITION
A 601 1 1/2" = 1'-0"

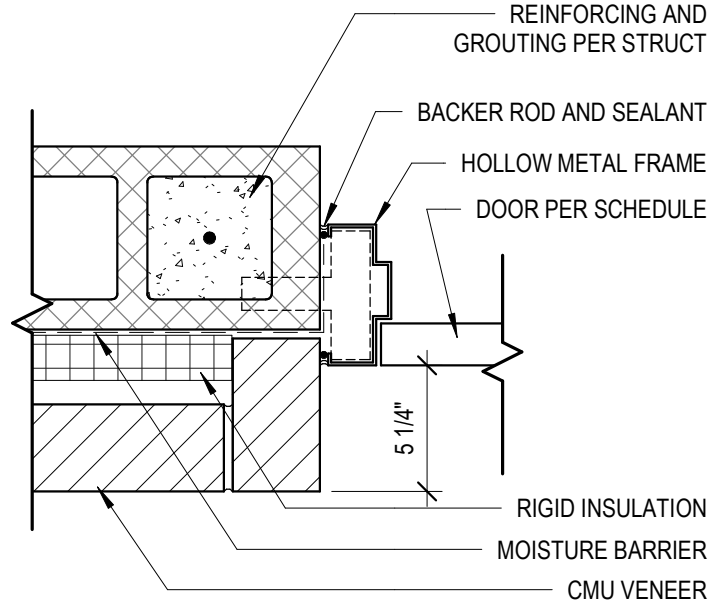


10 HM HEAD AT CMU
A 601 1 1/2" = 1'-0"

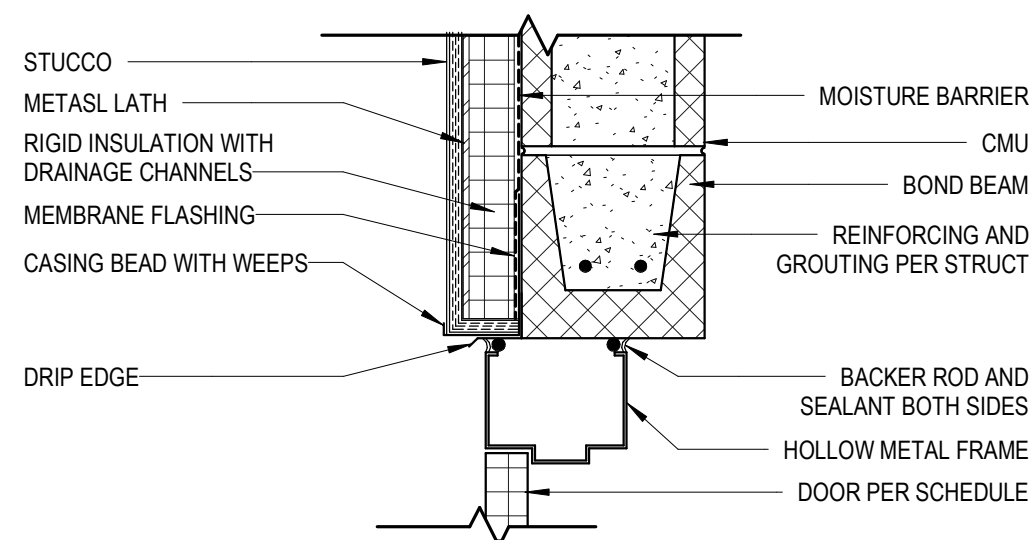
9 HM JAMB AT CMU
A 601 1 1/2" = 1'-0"



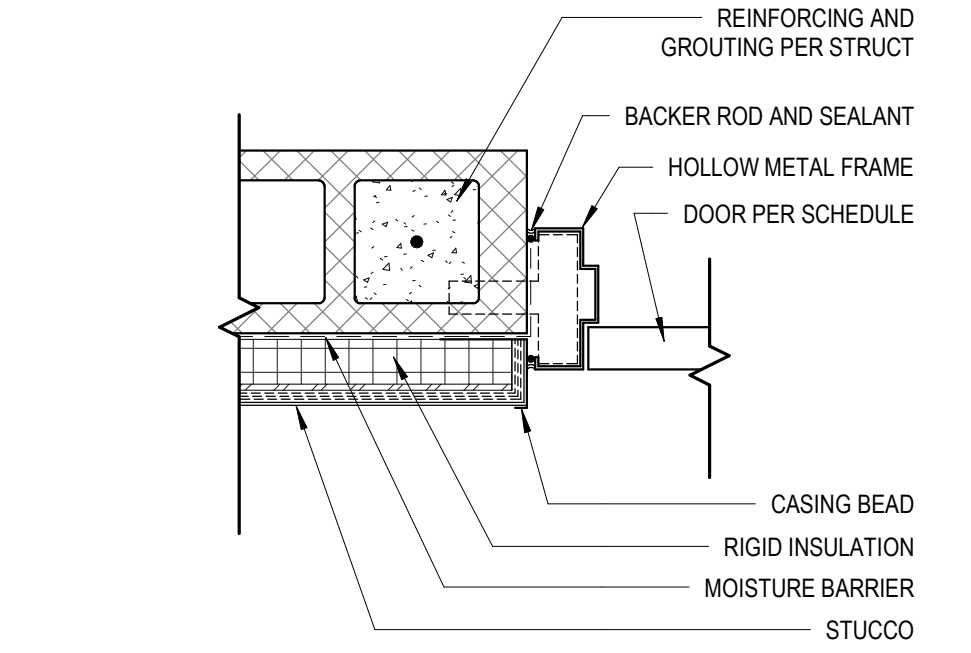
8 HM HEAD AT EXT BLOCK & CMU WALL
A 601 1 1/2" = 1'-0"



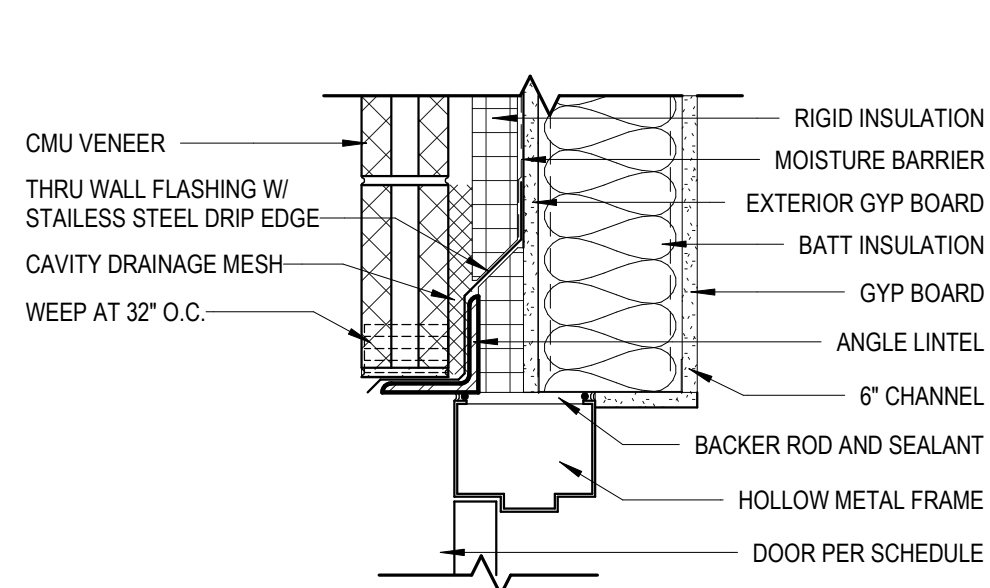
7 HM JAMB AT EXT BLOCK & CMU WALL
A 601 1 1/2" = 1'-0"



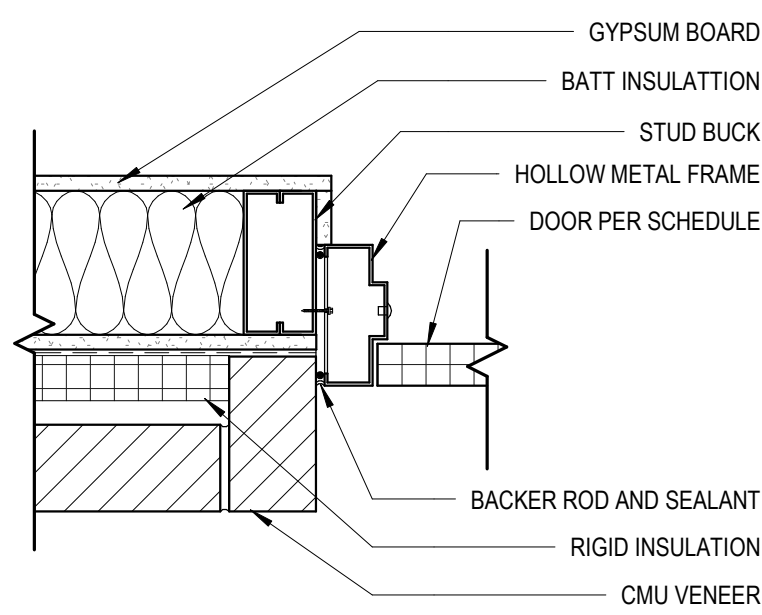
6 HM HEAD AT EXT STUCCO & CMU WALL
A 601 1 1/2" = 1'-0"



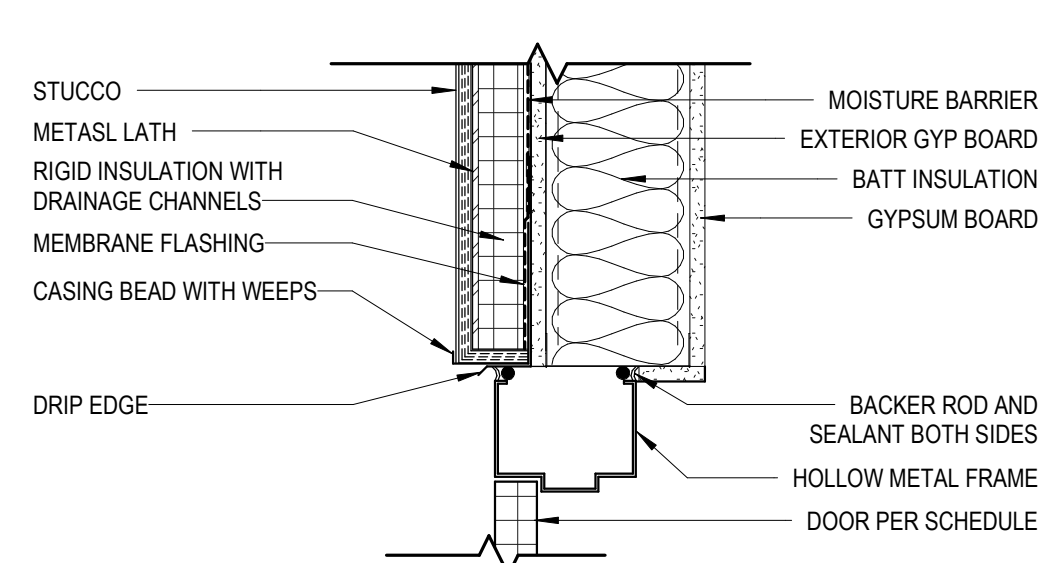
5 HM JAMB AT EXT STUCCO & CMU WALL
A 601 1 1/2" = 1'-0"



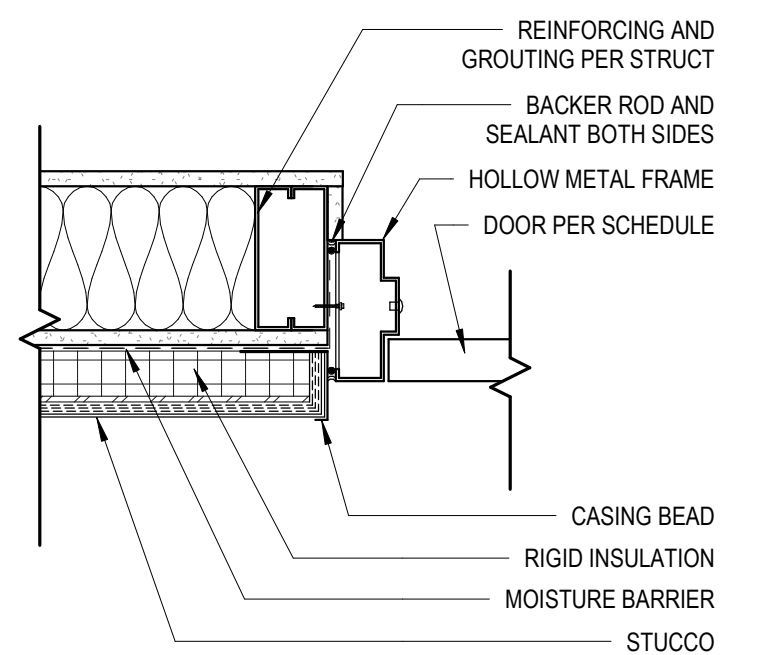
4 HM HEAD AT EXT BLOCK & STUD WALL
A 601 1 1/2" = 1'-0"



3 HM JAMB AT EXT BLOCK & STUD WALL
A 601 1 1/2" = 1'-0"



2 HM HEAD AT EXT STUCCO & STUD WALL
A 601 1 1/2" = 1'-0"



1 HM JAMB AT EXT STUCCO & STUD WALL
A 601 1 1/2" = 1'-0"

DOOR SCHEDULE														
ROOM NUMBER	DOOR CODE	ROOM NAME	DOOR			DOOR TYPE	GLASS TYPE	FRAME		FIRE RATING	HARDWARE GROUP	DETAILS		REMARKS
			HEIGHT	WIDTH	DOOR MATERIAL			FRAME MATERIAL	FRAME TYPE			HEAD DETAIL	JAMB DETAIL	
101	101	LOBBY	7'-4"	6'-0"	HM	D	GL-1	AL	2		SEE SPEC	8	7	
102	102	STORAGE	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
103	103	EXAM	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
105A	105A	VESTIBULE	7'-4"	3'-0"	HM	C	GL-1	AL	2		SEE SPEC	8	7	
105A	105B	VESTIBULE	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
105D	105D	OFFICE	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
105C	105E	LOCKERS	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
105C	105F	LOCKERS	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
105F	105G	OFFICE INTERVIEW RM	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
106	106A	COMMUNITY/ TRAINING	7'-0"	6'-0"	HM	B	-	HM	1		SEE SPEC	10	11	
106	107	COMMUNITY/ TRAINING	7'-0"	6'-0"	HM	B	-	HM	1		SEE SPEC	10	11	
108	108	PRGM	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
109	109	LT.	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
110	110	LT.	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
111	111A	VEST.	7'-0"	3'-0"	HM	A	-	HM	2		SEE SPEC	8	7	
111	111B	VEST.	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
112	112	MEN	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
113	113	WOMEN	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
114	114	WATCH ROOM	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
115	115	RR	7'-0"	3'-0"	HM	A	-	HM	2		SEE SPEC			
116	116	LAUNDRY	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
117	117	RADIO/FIRE ALERT	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
118	118A	VEST.	7'-0"	3'-0"	HM	A	-	HM	2		SEE SPEC			
118	118B	VEST.	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
119	119	BC WORK ROOM	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
120	120	CORRIDOR	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
121	121	BC BATH	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
122	122	BC BUNK	7'-0"	3'-0"	HM	A	-	HM	1	20 MIN	SEE SPEC	12	11	
123	123	BATH	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
124	124	BUNK	7'-0"	3'-0"	HM	A	-	HM	1	20 MIN	SEE SPEC	12	11	
125	125	STOR.	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
126	126	BUNK	7'-0"	3'-0"	HM	A	-	HM	1	20 MIN	SEE SPEC	12	11	
127	127	BUNK	7'-0"	3'-0"	HM	A	-	HM	1	20 MIN	SEE SPEC	12	11	
128	128	BUNK	7'-0"	3'-0"	HM	A	-	HM	1	20 MIN	SEE SPEC	12	11	
129	129	BUNK	7'-0"	3'-0"	HM	A	-	HM	1	20 MIN	SEE SPEC	12	11	
130	130	BUNK	7'-0"	3'-0"	HM	A	-	HM	1	20 MIN	SEE SPEC	12	11	
131	131	BUNK	7'-0"	3'-0"	HM	A	-	HM	1	20 MIN	SEE SPEC	12	11	
132	132	BUNK	7'-0"	3'-0"	HM	A	-	HM	1	20 MIN	SEE SPEC	12	11	
133	133	STOR.	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
134	134	BUNK	7'-0"	3'-0"	HM	A	-	HM	1	20 MIN	SEE SPEC	12	11	
135	135	BUNK	7'-0"	3'-0"	HM	A	-	HM	1	20 MIN	SEE SPEC	12	11	
136	136	BATH	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
137	137	BUNK	7'-0"	3'-0"	HM	A	-	HM	1	20 MIN	SEE SPEC	12	11	
138	138	BUNK	7'-0"	3'-0"	HM	A	-	HM	1	20 MIN	SEE SPEC	12	11	
139	139	CORRIDOR	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
140	140	ADA BATH	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
141	141	STOR.	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
142	142	BATH	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
143	143	STO	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
144	144	BATH	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
145	145	STO	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
146	146	BATH	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
147	147	STO	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
149	149	IT	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
150	150	KITCHEN	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
151	151	DINING	7'-4"	3'-0"	HM	C	GL-1	AL	2		SEE SPEC	8	7	
152	152	DAY ROOM	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
153	153	PPE	7'-0"	6'-0"	HM	B	-	HM	2		SEE SPEC			
154	154	DECON	7'-0"	3'-0"	HM	A	-	HM	2		SEE SPEC			
155	155	WORKSHOP/ SCBA	7'-0"	6'-0"	HM	B	-	HM	2		SEE SPEC			
156	156	COMP	7'-0"	6'-0"	HM	B	-	HM	2		SEE SPEC	10	9	
157	157	SUPPLY	7'-0"	3'-0"	HM	A	-	HM	2		SEE SPEC			
158	158	MECH/WATER	7'-0"	3'-0"	HM	A	-	HM	2		SEE SPEC			
159	159	ELEC	7'-0"	3'-0"	HM	A	-	HM	2		SEE SPEC	10	9	
160	160	EMS	7'-0"	3'-0"	HM	A	-	HM	2		SEE SPEC	10	9	
161	161	HOSE TOWER	7'-0"	3'-0"	HM	A	-	HM	2		SEE SPEC	8	7	
162	162A	BAY 1 LADDER	14'-0"	14'-0"		E					SEE SPEC	6	5	1
162	162B	BAY 1 LADDER	14'-0"	14'-0"		E					SEE SPEC	6	5	1
162	162C	BAY 1 LADDER	7'-0"	3'-0"	HM	A	-	HM	2		SEE SPEC	6	5	
163	163A	BAY 2 LADDER	14'-0"	14'-0"		E					SEE SPEC	6	5	1
163	163B	BAY 2 LADDER	14'-0"	14'-0"		E					SEE SPEC	6	5	1
164	164A	BAY 3	14'-0"	14'-0"		E					SEE SPEC	6	5	1
164	164B	BAY 3	14'-0"	14'-0"		E					SEE SPEC	6	5	1
165	165A	BAY 4	14'-0"	14'-0"		E					SEE SPEC	6	5	1
165	165B	BAY 4	14'-0"	14'-0"		E					SEE SPEC	6	5	1
201	201	FITNESS	7'-0"	6'-0"	HM	B	-		2		SEE SPEC	12	11	
202	202	SHO.	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
203	203	JANITOR	7'-0"	3'-0"	HM	A	-	HM	1		SEE SPEC	12	11	
120	797	CORRIDOR	0"	0"	HM			HM			SEE SPEC			

GLAZING TYPE:

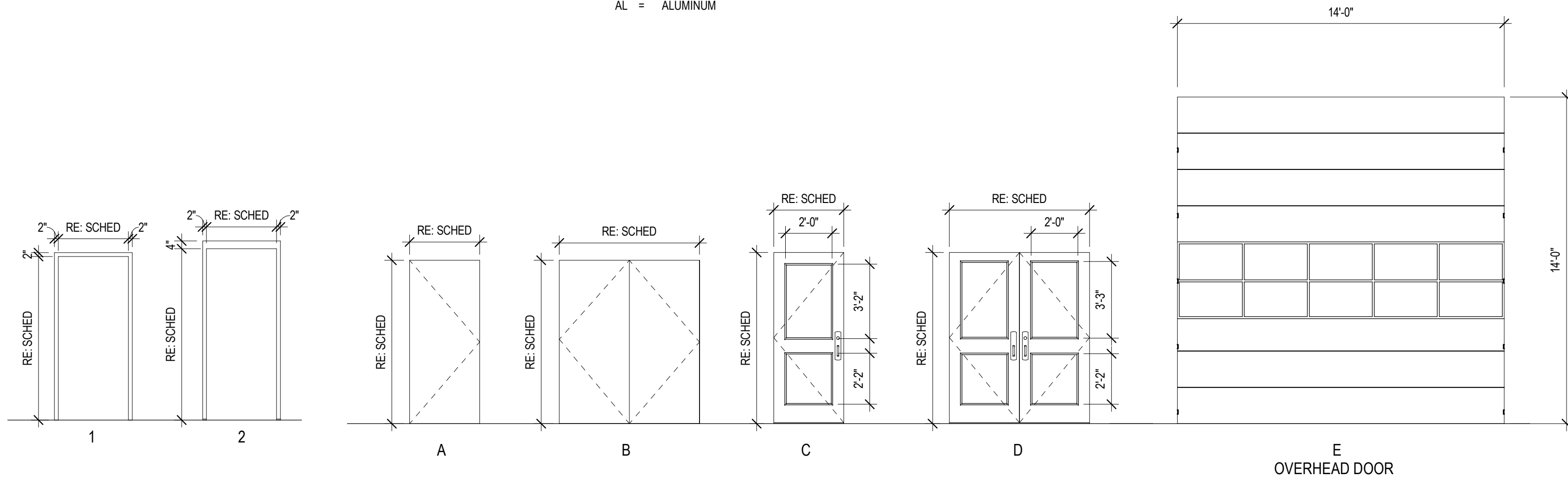
GL-1 = INSULATED TEMPERED GLAZING
GL-2 = INSULATED GLAZING
GL-3 = INTERIOR TEMPERED GLAZING

MATERIALS:

HM = HOLLOW METAL
STL = STEEL
WD = WOOD
AL = ALUMINUM

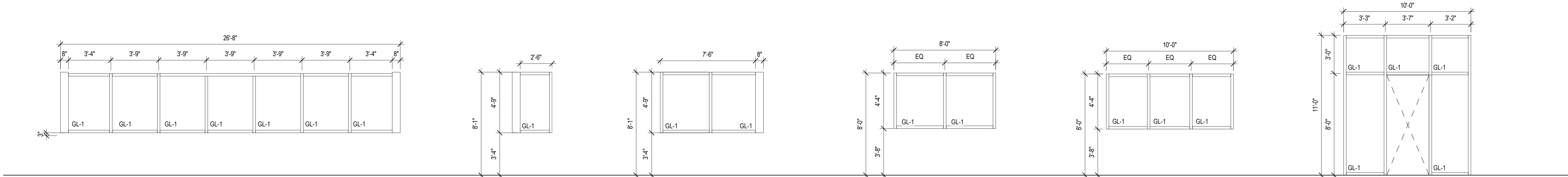
DOOR SCHEDULE REMARKS:

1. OVERHEAD DOOR W/ REMOTE CONTROL



FRAME TYPES
NOT TO SCALE

DOOR TYPES
NOT TO SCALE



6 STOREFRONT AA
A 602 1/4" = 1'-0"

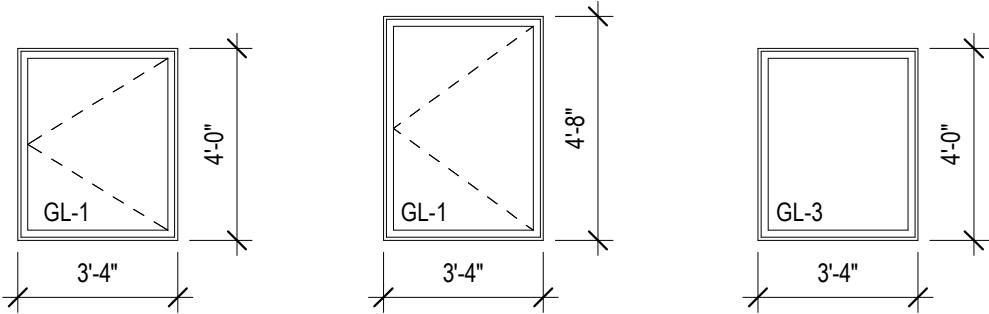
5 STOREFRONT BB
A 602 1/4" = 1'-0"

4 STOREFRONT DD
A 602 1/4" = 1'-0"

3 STOREFRONT EE
A 602 1/4" = 1'-0"

2 STOREFRONT FF
A 602 1/4" = 1'-0"

1 STOREFRONT GG
A 602 1/4" = 1'-0"



A (CASEMENT) B (CASEMENT) C (FIXED)

WINDOW TYPES

1/4" = 1'-0"



NOT FOR
CONSTRUCTION

Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.5777

Architect/Civil Engineer/Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect
DHM Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.368.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

City of Greeley

GREELEY FIRE STATION #6

10603 20TH ST, GREELEY COLORADO 80634



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75% DESIGN 09/13/2019

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Rev. # Description Date

WINDOW SCHEDULE & LEGEND

A
602

ROOM FINISH SCHEDULE										
	ROOM NAME	FLOOR	BASE	WALL FINISH				CEILINGS		COMMENTS
				NORTH	SOUTH	EAST	WEST	FINISH	MATERIAL	
101	LOBBY	SC	RB	P	P	P	P	P	GYP	
102	STORAGE	SC	RB	P	P	P		-	ACT	
103	EXAM	SC	RB	P	P	P	P	-	ACT	
104	KETTE	SC	RB	P	P	P	P	P	GYP	2
105A	VESTIBULE	CPT	PC	P	P	P	P	-	ACT	
105B	EVIDENCE LOCKER	-	-	-	-	-	-	-	-	
105C	LOCKERS	PC	RB	P	P	P	P	-	ACT	
105D	OFFICE	CPT	RB	P	P	P	P	-	ACT	
105E	WORK ROOM	CPT	RB	P	P	P	P	-	ACT	
105F	OFFICE INTERVIEW RM	CPT	RB	P	P	P	P	-	ACT	
106	COMMUNITY/ TRAINING	CPT	RB	P	P	P	P	-	ACT	
107	AV	CPT	RB	P	P	P	P	-	ETS	
108	PRGM	CPT	RB	P	P	P	P	-	ACT	
109	LT.	CPT	RB	P	P	P	P	-	ACT	
110	LT.	CPT	RB	P	P	P	P	-	ACT	
111	VEST.	SC	RB	P	P	P	P	-	ACT	
112	MEN	PT	PT	P / PT	P / PT	P / PT	P / PT	P	GYP	
113	WOMEN	PT	PT	P / PT	P / PT	P / PT	P / PT	P	GYP	
114	WATCH ROOM	CPT	RB	P	P	P	P	-	ACT	
115	RR	PT	PT	P / PT	P / PT	P / PT	P / PT	P	GYP	
116	LAUNDRY	PC	RB	P	P	P	P	-	ACT	
117	RADIO/FIRE ALERT	CPT	RB	P	P	P	P	-	ACT	
118	VEST.	SC	RB	P	P	P	P	-	ACT	
119	BC WORK ROOM	CPT	RB	P	P	P	P	-	ACT	
120	CORRIDOR	CPT	RB	P	P	P	P	-	ACT	
121	BC BATH	PT	PT	P / PT	P / PT	P / PT	P / PT	P	GYP	
122	BC BUNK	CPT	RB	P	P	P	P	-	ACT	
123	BATH	PT	-	P / PT	P / PT	P / PT	P / PT	P	GYP	
124	BUNK	CPT	RB	P	P	P	P	-	ACT	
125	STOR.	CPT	RB	P	P	P	P	-	ACT	
126	BUNK	CPT	RB	P	P	P	P	-	ACT	
127	BUNK	CPT	RB	P	P	P	P	-	ACT	
128	BUNK	CPT	RB	P	P	P	P	-	ACT	
129	BUNK	CPT	RB	P	P	P	P	-	ACT	
130	BUNK	CPT	RB	P	P	P	P	-	ACT	
131	BUNK	CPT	RB	P	P	P	P	-	ACT	
132	BUNK	CPT	RB	P	P	P	P	-	ACT	
133	STOR.	CPT	RB	P	P	P	P	-	ACT	
134	BUNK	CPT	RB	P	P	P	P	-	ACT	
135	BUNK	CPT	RB	P	P	P	P	-	ACT	
136	BATH	PT	PT	P / PT	P / PT	P / PT	P / PT	P	GYP	
137	BUNK	CPT	RB	P	P	P	P	-	ACT	
138	BUNK	CPT	RB	P	P	P	P	-	ACT	
139	CORRIDOR	CPT	RB	P	P	P	P	-	ACT	
140	ADA BATH	PT	PT	P / PT	P / PT	P / PT	P / PT	P	GYP	
141	STOR.	CPT	RB	P	P	P	P	-	ACT	
142	BATH	PT	PT	P / PT	P / PT	P / PT	P / PT	P	GYP	
143	STO	CPT	RB	P	P	P	P	-	ACT	
144	BATH	PT	PT	P / PT	P / PT	P / PT	P / PT	P	GYP	
145	STO	CPT	RB	P	P	P	P	-	ACT	
146	BATH	PT	PT	P / PT	P / PT	P / PT	P / PT	P	GYP	
147	STO	CPT	RB	P	P	P	P	-	ACT	
148	PANTRY	PC	RB	P	P	P	P	-	ACT	
149	IT	ESD	RB	P	P	P	P	-	ACT	
150	KITCHEN	PC	RB	P	P	P	P	P	GYP	2
151	DINING	PC	RB	P	P	P	P	- / P	ACT/GYP	
152	DAY ROOM	PC	RB	P	P	P	P	P	GYP	
153	PPE	SC	SC	P	P	P	P	-	ETS	1
154	DECON	SC	SC	P	P	P	P	-	ETS	1
155	WORKSHOP/ SCBA	SC	SC	P	P	P	P	-	ETS	1
156	COMP	SC	SC	P	P	P	P	-	ETS	1
157	SUPPLY	SC	SC	P	P	P	P	-	ETS	1
158	MECHWATER	SC	SC	P	P	P	P	-	ETS	1
159	ELEC.	SC	SC	P	P	P	P	-	ETS	1
160	EMS	SC	SC	P	P	P	P	-	ETS	1
161	HOSE TOWER	SC	SC	P	P	P	P	-	ETS	1
162	BAY 1 LADDER	SC	SC	P	P	P	P	-	ETS	1
163	BAY 2 LADDER	SC	SC	P	P	P	P	-	ETS	1
164	BAY 3	SC	SC	P	P	P	P	-	ETS	1
165	BAY 4	SC	SC	P	P	P	P	-	ETS	1
201	FITNESS	RFT	RB	P	P	P	P	-	ACT	1
202	SHO.	PT	PT	P / PT	P / PT	P / PT	P / PT	P	GYP	
203	JANITOR	SC	RB	P	P	P	P	-	ETS	
204	HOSE TOWER	SC	-	-	-	-	-	-	ETS	1

LEGEND

ACT = ACOUSTIC CEILING TILE
CPT = CARPET
GYP = GYPSUM BOARD
P = PAINT
RB = RUBBER BASE
CT = CERAMIC TILE
PT = PORCELIN TILE
PC = POLISHED CONCRETE
SC = SEALED CONCRETE
AT = ACCENT TILE
VCT = VINYL COMPOSITION TILE
ESD = STATIC CONTROL FLOORING
RFT = RUBBER FLOOR TILE

GENERAL NOTES - ROOM FINISH SCHEDULE

1. ALL EXPOSED INTERIOR CMU TO BE PAINTED U.N.O
2. PROVIDE PORCELAIN TILE BACKSPLASH AT COUNTERTOP LOCATIONS

NOT FOR CONSTRUCTION

Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/Civil Engineer/Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.388.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

City of Greeley
Greeley Fire Station #6

10603 20TH ST, GREELEY COLORADO 80634

City of Greeley
Colorado
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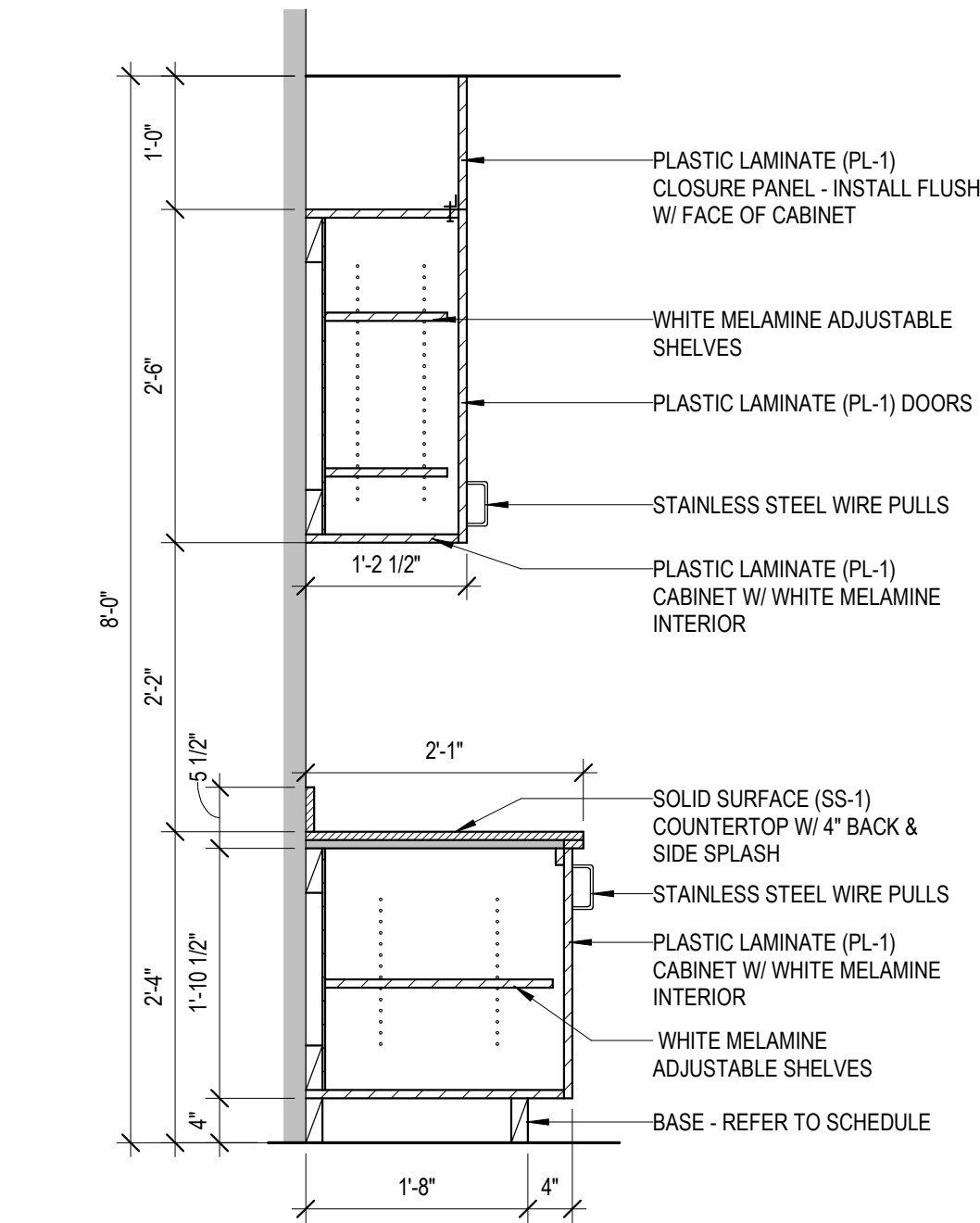
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30% DESIGN 07/19/2019
75% DESIGN 09/13/2019

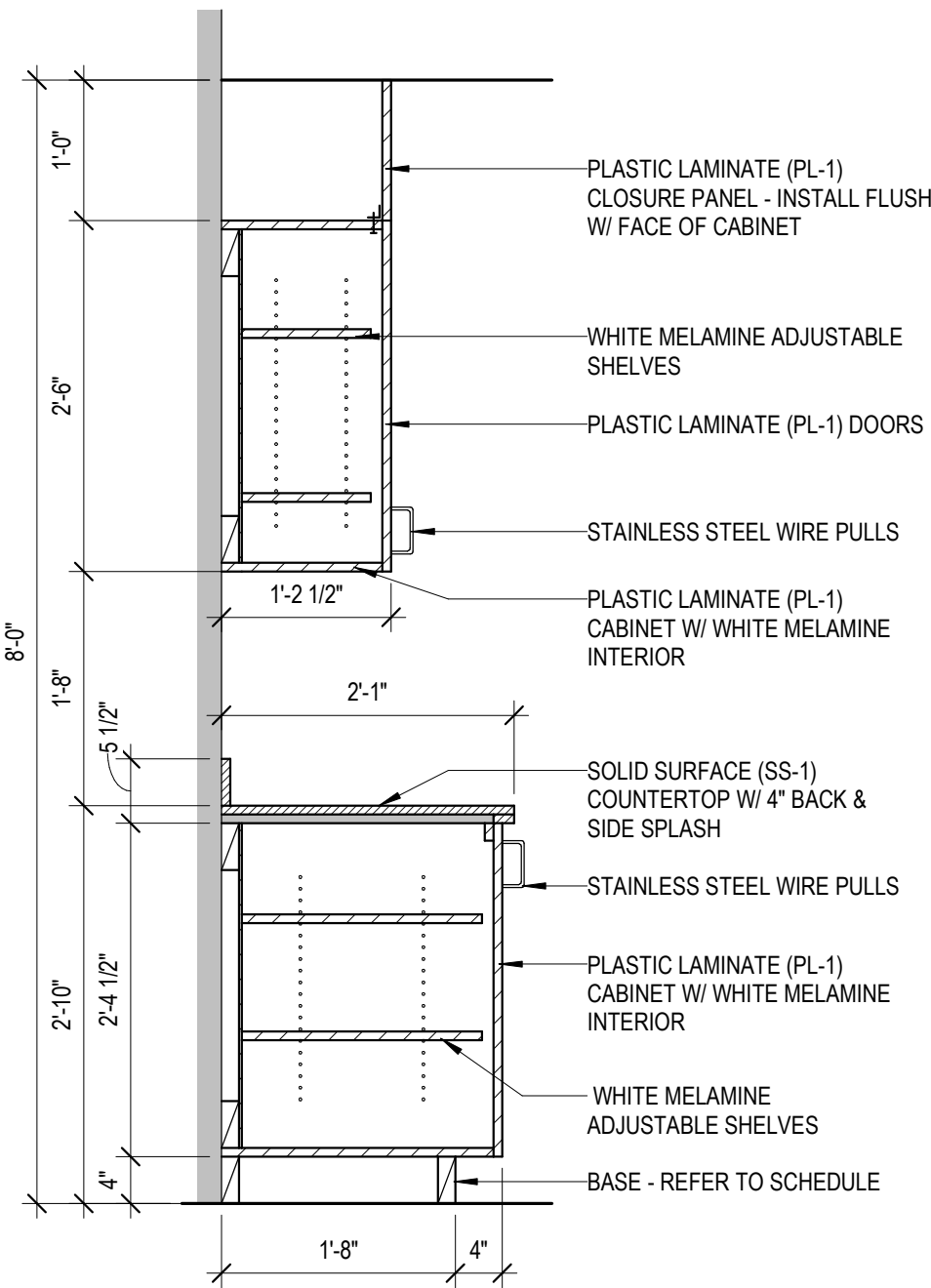
Revision Issue		
Rev. #	Description	Date

ROOM FINISH SCHEDULE

A
611



1
A 621
LOW HT. CASEWORK, TYP.
3/4" = 1'-0"



2
A 621
STANDARD HT. CASEWORK, TYP.
3/4" = 1'-0"



NOT FOR
CONSTRUCTION

Owner
City of Greeley
1000 10th Street
Greeley, Colorado 80631
970.350.9777

Architect/Civil Engineer/Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

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Revision Issue
Rev. # Description Date

CASEWORK

A
621

9/11/2019 2:56:17 PM

GENERAL LEGEND		
ABBV.	SYMBOL	DESCRIPTION
G.C.		GENERAL CONTRACTOR
M.C.		MECHANICAL CONTRACTOR
E.C.		ELECTRICAL CONTRACTOR
T.C.C.		TEMPERATURE CONTROL CONTRACTOR
A.F.F.		ABOVE FINISHED FLOOR
A.F.G.		ABOVE FINISHED GRADE
B.F.F.		BELOW FINISHED FLOOR
B.F.G.		BELOW FINISHED GRADE
N.I.C.		NOT IN CONTRACT
N.C.		NORMALLY CLOSED
N.O.		NORMALLY OPEN
(N)		NEW
AD/AP		CONTROL WIRING
		ACCESS DOOR/ACCESS PANEL
		DIRECTION OF FLOW IN PIPE
		PITCH PIPE DOWN IN DIRECTION OF ARROW
		PIPE CAP
		GAUGE
		PRESSURE GAUGE WITH COCK
		FLOW METER FITTING
		PIPE UNION
		FLEXIBLE PIPE CONNECTION
		STRAINER WITH BLOWDOWN VALVE
		STRAINER
		CONCENTRIC PIPE REDUCER
		ECCENTRIC PIPE REDUCER
CV		CHECK VALVE
BV		BALANCING VALVE
GV		GATE VALVE
		BALL VALVE
		GLOBE VALVE
		BUTTERFLY VALVE
		3-WAY MANUAL VALVE
		MANUAL AIR VENT
		AUTOMATIC AIR VENT
		PRESSURE RELIEF VALVE
		PRESSURE/TEMPERATURE TEST PLUG
PT		(2 OR 3-WAY) TEMPERATURE CONTROL VALVE
TCV		PIPE ELBOW DOWN
		PIPE ELBOW UP
		TEE OFF BOTTOM OF PIPE
		TEE OFF TOP OF PIPE
		THERMOMETER
		ROOFTOP UNIT
RTU		ROOFTOP UNIT
SF		SUPPLY FAN
EF		EXHAUST FAN
RF		RETURN FAN
UH		UNIT HEATER
CUH		CABINET UNIT HEATER
RH		RADIANT HEATER
P		PUMP
B		BOILER
WF		WATER FEEDER
AS		AIR SEPARATOR
ET		EXPANSION TANK
LVR		LOUVER
SD		SLOT DIFFUSER
SR		SUPPLY REGISTER
SG		SUPPLY GRILLE
RR		RETURN REGISTER
RG		RETURN GRILLE
ER		EXHAUST REGISTER
EG		EXHAUST GRILLE
TG		TRANSFER GRILLE
SA		SUPPLY AIR
RA		RETURN AIR
EA		EXHAUST AIR
OA		OUTSIDE AIR
TA		TRANSFER AIR
MA		MAKE-UP AIR

HVAC LEGEND		
ABBV.	SYMBOL	DESCRIPTION
HWS		HEATING WATER SUPPLY
HWR		HEATING WATER RETURN
RL		REFRIGERANT LIQUID
RS		REFRIGERANT SUCTION
MCD		COMPOUND PRESSURE GAUGE
		MOTORIZED CONTROL DAMPER
MVD		BACKDRAFT DAMPER
		MANUAL VOLUME DAMPER
FD		FIRE DAMPER
FSD		COMBINATION MOTORIZED FIRE/SMOKE DAMPER
		WALL SWITCH
		THERMOSTAT / HUMIDISTAT
		TEMPERATURE / HUMIDITY / CARBON DIOXIDE SENSOR
		COMBINATION TEMPERATURE SENSORS
		EMERGENCY POWER OFF SWITCH
		OCCUPANCY SENSOR
		SMOKE DETECTOR
		PRESSURE SENSOR
		MOTOR STARTER
		VELOCITY SENSOR
		ANALOG FLOW MEASURING DEVICE
		VARIABLE FREQUENCY DRIVE
		ANALOG OUTPUT
		ANALOG INPUT
		DIGITAL OUTPUT
		DIGITAL INPUT
		STATIC PRESSURE TRANSMITTER
		DIFFERENTIAL PRESSURE TRANSMITTER
		SUPPLY DUCT UP & DOWN
		RETURN/EXHAUST DUCT UP & DOWN
		ROUND SUPPLY DUCT UP & DOWN
		DUCT ELBOW WITH TURNING VANES
		SQUARE TO ROUND TRANSITION
		OFFSET DUCT UP / DOWN IN DIRECTION OF ARROW
		CONICAL SPIN-IN FITTING WITH MANUAL VOLUME DAMPER
		CONICAL SPIN-IN FITTING WITHOUT MANUAL VOLUME DAMPER
		45° TAKEOFF
		STANDARD RADIUS ELBOW
		NEW RECTANGULAR DUCTWORK - WIDTH x DEPTH
		NEW ROUND DUCTWORK - DIAMETER
		NEW OVAL DUCTWORK - WIDTH / DEPTH
CD		CEILING DIFFUSER (FOUR WAY THROW PATTERN)
CD		CEILING DIFFUSER WITH FLOW PATTERN INDICATION (TWO WAY)
CD		CEILING DIFFUSER WITH FLOW PATTERN INDICATION (ONE WAY)
CD		CEILING DIFFUSER WITH FLOW PATTERN INDICATION (THREE WAY)
CD		CEILING DIFFUSER WITH FLOW PATTERN INDICATION (TWO WAY)
SD		SLOT DIFFUSER
RGEG		RETURN OR EXHAUST REGISTER OR GRILLE
VAV		RETURN GRILLE WITH SOUND BOOT
		VAV TERMINAL UNIT
		FLEXIBLE DUCTWORK
		AIRFLOW - RETURN/EXHAUST
		AIRFLOW - SUPPLY
		SOUND ATTENUATOR

MECHANICAL HVAC NOTES

- DUCTWORK DIMENSIONS LISTED ON THE DRAWINGS ARE CLEAR, INSIDE DIMENSIONS.
- FLEXIBLE DUCTWORK SHALL BE INSULATED AND SHALL BE THE SAME SIZE AS THE NECK OF THE AIR DEVICE. FLEXIBLE DUCTWORK SHALL NOT EXCEED 8'-0" IN LENGTH. PROVIDE WRAPPED RIGID ROUND DUCTWORK FOR TAKEOFFS IN EXCESS OF 8'-0".
- UNLESS SHOWN OTHERWISE, THE INLET DUCTWORK TO FAN TERMINAL UNITS AND VARIABLE AIR VOLUME TERMINAL UNITS SHALL BE THE FULL SIZE OF THE UNIT CONNECTION.
- PROVIDE DUCT TRANSITIONS FROM EQUIPMENT CONNECTIONS TO DUCT SIZES AS SHOWN.
- PROVIDE A FLEXIBLE CONNECTION TO THE INTAKE AND DISCHARGE OF ALL MECHANICAL EQUIPMENT HAVING ROTATING PARTS. FLEXIBLE CONNECTION SHALL COMPLY WITH ALL APPLICABLE CODES.
- ALL DUCTWORK SHALL BE A MINIMUM 26 GAUGE SHEETMETAL, OR AS REQUIRED BY ALL APPLICABLE CODES. ALL DUCTWORK CROSSING RATED CORRIDORS SHALL BE A MINIMUM 24 GAUGE SHEETMETAL. MEET OR EXCEED SMACNA STANDARDS.
- ALL SUPPLY, RETURN AND EXHAUST DUCTWORK SHALL BE SEALED AIRTIGHT WITH DUCT SEALANT (SMACNA SEAL CLASS "A") ALONG ALL SEAMS AND JOINTS.
- ALL RECTANGULAR SUPPLY, RETURN AND TRANSFER DUCTWORK SHALL BE SHEETMETAL WITH DUCT LINER. REFER TO SPECIFICATION 233000 FOR REQUIREMENTS.
- ALL EXHAUST DUCTWORK SHALL BE UNLINED SHEETMETAL, UNLESS NOTED OTHERWISE.
- ALL DUCTWORK SERVING CHEMICAL STORAGE ROOMS AND FUME HOODS SHALL BE CONSTRUCTED OF SCHEDULE 40 PVC PIPE. PVC COATED STEEL DUCTWORK IS NOT ACCEPTABLE.
- ALL EXPOSED SPIRAL ROUND DUCTWORK SHALL BE SHEETMETAL WITH DUCT LINER. REFER TO SPECIFICATION 233000 FOR REQUIREMENTS.
- ALL CONCEALED SPIRAL ROUND DUCTWORK SHALL BE SHEETMETAL WITH EXTERNAL DUCT INSULATION. REFER TO SPECIFICATION 230700 FOR REQUIREMENTS.
- ALL UNLINED DUCTWORK THAT IS VISIBLE THROUGH THE AIR DEVICE SHALL BE PAINTED FLAT BLACK.
- MAINTAIN A MINIMUM 10'-0" SEPARATION FROM OUTSIDE AIR INTAKES TO EXHAUST TERMINATIONS AND FLUE OUTLETS.
- MAINTAIN A MINIMUM OF 15'-0" FROM OUTSIDE AIR INTAKES TO PLUMBING VENTS.
- MAINTAIN A MINIMUM 3'-0" SEPARATION FROM EXHAUST TERMINATIONS TO OPERABLE WINDOWS AND DOORS.
- COORDINATE LOUVER, WALL CAP AND AIR DEVICE PLACEMENT WITH BRICK OR BLOCK COURSING WHERE APPLICABLE.
- COORDINATE THE LOCATION AND ELEVATION OF ALL EXPOSED DUCTWORK WITH THE ARCHITECT AT THE JOB SITE.
- ALL EXPOSED DUCTWORK SHALL BE FREE OF IMPERFECTIONS AND DAMAGE. SEAL EXPOSED DUCTWORK IN A NEAT WORKMANSHIP LIKE MANNER SUITABLE FOR PAINTING.
- THE GENERAL CONTRACTOR SHALL PAINT ALL EXPOSED DUCTWORK, FITTINGS, ETC. IN ACCORDANCE WITH THE ARCHITECTURAL SPECIFICATION.
- ALL EXPOSED DUCTWORK THAT IS SPECIFIED TO BE PAINTED SHALL BE PROVIDED WITH A PAINT-LOCK PRIMER TO PREPARE THE DUCT FOR FIELD PAINTING.
- CUT ROOF MOUNTED AIR HANDLING EQUIPMENT DUCT OPENINGS THROUGH THE ROOF 1/2" LARGER THAN THE OUTSIDE DIMENSION OF THE SUPPLY AND RETURN DUCTS. SEAL THE OPENINGS AROUND THE DUCTS.
- COMPLETELY FILL ALL ROOF MOUNTED AIR HANDLING EQUIPMENT ROOF CURBS WITH UNFACED BATT INSULATION. LAYER INSULATION IN A NEAT WORKMANSHIP LIKE MANNER.
- SPIN-IN FITTINGS SERVING GRILLES AND DIFFUSERS SHALL BE CONICAL WITH MANUAL VOLUME DAMPERS, UNLESS THE AIR DEVICE IS PROVIDED WITH AN OPPOSED BLADE DAMPER.
- SPIN-IN FITTINGS SERVING VAV TERMINALS SHALL BE CONICAL WITHOUT MANUAL VOLUME DAMPERS.
- RECTANGULAR BRANCH DUCT TAKEOFFS SHALL HAVE 45° TAKEOFFS AND ROUND DUCT TAKEOFFS SHALL BE CONICAL.
- ALL ELBOWS, BOTH HORIZONTAL AND VERTICAL, SHALL BE LONG RADIUS ELBOWS WHEREVER POSSIBLE OR SHALL HAVE TURNING VANES UNLESS SHOWN OTHERWISE.
- ALL OUTDOOR AND ROOF MOUNTED DUCTWORK SHALL BE PROVIDED WITH DUCT LINER AND EXTERNAL DUCT INSULATION TO MEET A TOTAL INSULATION VALUE OF R-12. REFER TO SPECIFICATION 230700 FOR REQUIREMENTS. PROVIDE AN ALUMINUM ALL WEATHER JACKETING. SLOPE TOP OF INSULATION TO PREVENT WATER PONDING.
- 12"x12" ACCESS DOORS SHALL BE PROVIDED FOR ALL MANUAL VOLUME DAMPERS LOCATED ABOVE GYPSUM BOARD CEILINGS. ALL FINAL ACCESS DOOR LOCATIONS SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
- 24"x24" ACCESS DOORS SHALL BE PROVIDED FOR ALL VARIABLE AIR VOLUME TERMINAL UNITS AND HEATING COILS LOCATED ABOVE GYPSUM BOARD CEILINGS. ALL FINAL ACCESS DOOR LOCATIONS SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
- ALL JOB SITE DUCTWORK PRIOR TO INSTALLATION SHALL BE COVERED AND PROTECTED FROM DIRT, DUST, AND DAMAGE PER SMACNA STANDARDS.
- ALL NEW AND REPLACEMENT ROOF MOUNTED EQUIPMENT SHALL BE LOCATED AT LEAST 10'-0" FROM THE EDGE OF THE ROOF. THE GENERAL AND MECHANICAL CONTRACTOR SHALL VERIFY AND CONFIRM THE ACTUAL INSTALLED LOCATIONS OF ALL NEW AND REPLACEMENT ROOF MOUNTED EQUIPMENT. IF THIS EQUIPMENT IS INSTALLED WITHIN 10'-0" OF THE ROOF EDGE, THE GENERAL CONTRACTOR SHALL INSTALL AN OSHA APPROVED GUARD RAIL.
- KITCHEN EXHAUST AIR DUCTWORKS SHALL BE CONSTRUCTED OF MATERIALS AS SPECIFIED. THE JOINTS AND SEAMS WILL BE CONTINUOUSLY WELDED OR BRAZED ON THE EXTERNAL SURFACE OF THE DUCTWORK. THE HORIZONTAL DUCTWORK WILL BE SLOPED AT 1/4" PER LINEAL FOOT TOWARD THE KITCHEN HOOD. ANY PORTION OF THE DUCT SYSTEM THAT IS INACCESSIBLE FROM THE DUCT ENTRY OR DISCHARGE SHALL BE PROVIDED WITH CODE APPROVED CLEANOUTS IN THE DUCT AND DUCT ENCLOSURE.
- PROVIDE A BLANKET WRAP INSULATION ON GREASE DUCT IN ACCORDANCE WITH NFPA 96 AND LOCAL CODES.
- FLUES FOR BOILERS, WATER HEATERS, AND POOL HEATERS SHALL BE ENGINEERED BY THE FLUE MANUFACTURER, BASED ON ACTUAL EQUIPMENT, AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- DRYER EXHAUST AIR DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEETMETAL NOT LESS THAN 0.0195 INCHES. INSIDE OF DRYER DUCT SHALL BE SMOOTH WITH NO MECHANICAL FASTENERS PENETRATING THE DUCT. POP RIVETS ARE ACCEPTABLE. VERTICAL RISERS SHALL HAVE AN ACCESSIBLE CLEANOUT. COMPLY WITH MANUFACTURER'S INSTALLATION REQUIREMENTS AND LOCAL CODES.
- DIVISION 26 SHALL PROVIDE ONE DATA CONNECTION AND ONE 120 VOLT, 20 AMP POWER CONNECTION IN THE ROOM HOUSING THE DDC NETWORK CONTROLLER. DIVISION 26 SHALL PROVIDE ONE DATA CONNECTION AND ONE 120 VOLT, 20 AMP POWER CONNECTION IN THE ROOM HOUSING THE DDC COMPUTER AND ASSOCIATED GRAPHICAL USER INTERFACE, CONTROL SERVER SOFTWARE. COORDINATE EXACT LOCATION FOR THE DDC COMPUTER WITH THE OWNER. DIVISION 26 SHALL PROVIDE MULTIPLE 20 AMP CIRCUITS IN THE CEILING SPACE TO SERVE VAV TERMINAL, CONTROL TRANSFORMERS. EXACT CIRCUIT LOCATIONS SHALL BE COORDINATED WITH THE TEMPERATURE CONTROLS CONTRACTOR.
- IN THE EVENT A VARIABLE FREQUENCY DRIVE IS ADDED TO AN EXISTING PIECE OF HVAC EQUIPMENT, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THE MAG STARTER HAS BEEN REMOVED. THE MECHANICAL CONTRACTOR SHALL ALSO VERIFY THAT THE MOTOR IS COMPATIBLE FOR OPERATION WITH A VARIABLE FREQUENCY DRIVE. IF THERE IS A CONFLICT WITH THE MOTOR, REPORT THE MOTOR DEFICIENCY IMMEDIATELY TO THE GENERAL CONTRACTOR.

MECHANICAL PIPING NOTES

- HEATING WATER PIPING AND INSULATION. REFER TO SPECIFICATION SECTIONS 23 20 00 AND 23 07 00 RESPECTIVELY FOR PIPING AND INSULATION REQUIREMENTS.
- CHILLED WATER PIPING AND INSULATION. REFER TO SPECIFICATION SECTIONS 23 20 00 AND 23 07 00 RESPECTIVELY FOR PIPING AND INSULATION REQUIREMENTS.
- GAS PIPING. REFER TO SPECIFICATION SECTION 22 10 00 FOR GAS PIPING REQUIREMENTS.
- REFRIGERANT PIPING AND INSULATION. REFER TO SPECIFICATION SECTIONS 23 20 00 AND 23 07 00 RESPECTIVELY FOR PIPING AND INSULATION REQUIREMENTS.
- THE AIR-COOLED CONDENSING UNIT SUPPLIER SHALL SUBMIT A MANUFACTURER APPROVED REFRIGERANT PIPING DIAGRAM SPECIFIC TO THIS PROJECT. CLEARLY IDENTIFY PIPING LENGTHS, DROPS, RISES, SIZES, VALVES, AND SPECIALTIES.
- INSTALL ALL VALVES ABOVE ACCESSIBLE CEILINGS. PROVIDE 12"x12" ACCESS DOORS FOR ALL VALVES ABOVE GYPSUM CEILINGS. ALL FINAL ACCESS DOOR LOCATIONS SHALL BE APPROVED BY THE ARCHITECT DURING COORDINATED SHOP DRAWING REVIEW.
- ALL PIPING SHOWN IS CONCEALED ABOVE CEILINGS UNLESS INDICATED OTHERWISE.
- REFER TO VAV TERMINAL UNIT SCHEDULE FOR COIL DESIGNATIONS REQUIRING 3-WAY VALVES.
- PROVIDE PIPING SLEEVES AT ALL WALL PENETRATIONS. REFER TO SPECIFICATION FOR EXACT REQUIREMENTS.
- PROVIDE ISOLATION/SHUT-OFF VALVES AT ALL PIPING BRANCHES THAT HAVE TWO OR MORE HYDRONIC DEVICES.
- PIPING CONTRACTOR SHALL SUBMIT IN ADDITION TO THE COORDINATED SHOP DRAWINGS, AN INDIVIDUAL SHOP DRAWING SHOWING ALL MEANS OF HYDRONIC SYSTEM EXPANSION (HEATING AND CHILLED WATER SYSTEMS). CONTRACTOR CAN USE EXPANSION LOOPS, ANCHORS AND ROLLERS, EXPANSION COMPENSATORS, OR A COMBINATION OF BOTH. HYDRONIC EXPANSION LOCATIONS, METHODS, AND EQUIPMENT SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- ALL RUN OUT PIPING TO HEATING DEVICES SHALL BE MINIMUM 3/4" UNLESS OTHERWISE NOTED, OR SCHEDULED. ALL RUN OUT PIPING TO HEATING DEVICES SHALL BE A MINIMUM OF 5'-0" IN LENGTH AND SHALL HAVE A MINIMUM OF (5) 90° ELBOWS, WHERE THESE REQUIREMENTS ARE NOT POSSIBLE DUE TO SPACE CONSTRAINTS, FLEXIBLE CONNECTIONS AT THE DEVICE SHALL BE PROVIDED.

SHEET INDEX

SHEET NUMBER	MECHANICAL, PLUMBING & FIRE PROTECTION SHEET TITLE	SHEET SCALE	SHEET ISSUED
M 000	MECHANICAL COVER SHEET - LEGEND, GENERAL NOTES & SHEET INDEX	NONE	X
M 111	HVAC FLOOR PLAN - LEVEL 1	1/8" = 1'-0"	X
M 112	HVAC FLOOR PLAN - LEVEL 2	1/8" = 1'-0"	X
M 113	ROOF HVAC PLAN	1/8" = 1'-0"	X
M 121	HVAC PIPING FLOOR PLAN - LEVEL 1	1/8" = 1'-0"	X
M 122	HVAC PIPING FLOOR PLAN - LEVEL 2	1/8" = 1'-0"	X
M 411	ENLARGED SCALE HVAC MECHANICAL ROOM PLAN	1/4" = 1'-0"	X
M 500	HVAC SECTIONS	1/4" = 1'-0"	X
M 600	HVAC SCHEDULES	NONE	X
M 601	HVAC SCHEDULES	NONE	X
M 700	HVAC DETAILS	NONE	X
M 701	HVAC DETAILS	NONE	X
M 800	HVAC CONTROL DIAGRAMS	NONE	X
M 801	HVAC CONTROL DIAGRAMS	NONE	X
M 900	HVAC OUTSIDE AIR CALCULATIONS	NONE	X

MECHANICAL GENERAL NOTES

- THE MECHANICAL CONTRACTOR SHALL INSPECT SITE TO BECOME FAMILIAR WITH THE SCOPE OF THE WORK. THESE DOCUMENTS DO NOT REFLECT AS-BUILT CONDITIONS. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND THE ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEERS FOR RESOLUTION PRIOR TO BID PRICING. NO EXTRAS WILL BE ALLOWED DUE TO LACK OF KNOWLEDGE OF THE EXISTING CONDITIONS.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL ABOVE CEILING EQUIPMENT, DUCTWORK AND CEILING MOUNTED AIR DEVICES WITH EXISTING ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL CONDITIONS. APPROXIMATE LOCATIONS OF NEW WORK ARE SHOWN AND SHOULD BE FOLLOWED AS CLOSELY AS EXISTING CONDITIONS WILL ALLOW.
- MECHANICAL WORK SHALL COMPLY WITH ALL APPLICABLE CODES. VERIFY ALL REQUIREMENTS PRIOR TO SUBMITTING BID OR COMMENCING WORK.
- THE MECHANICAL SYSTEM SHOWN SHALL BE ROUTED AS HIGH AS POSSIBLE. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING REQUIREMENTS WITH ALL TRADES PRIOR TO CONSTRUCTION.
- WHERE CEILING SPACE IS TO BE USED AS A RETURN AIR PLENUM, COMPLY WITH ALL APPLICABLE CODES. ALL MATERIALS WITHIN THE CEILING PLENUM WILL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50.
- WHERE THE CEILING SPACE IS TO BE USED AS A RETURN AIR PLENUM, THE GENERAL AND MECHANICAL CONTRACTORS SHALL VERIFY THAT THE RETURN AIR PATH BACK TO THE UNIT IS OPEN WITH A VELOCITY THROUGH ALL OPENINGS OF 400 FPM OR LESS.
- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING AIR DEVICES AND ACCESS PANELS. OBTAIN CLARIFICATION FROM THE ARCHITECT, IF EXACT LOCATIONS ARE NOT SHOWN.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR ROOFING DETAILS SPECIFIC TO THE PROJECT.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE THERMOSTAT, SENSOR, AND SWITCH LOCATIONS WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION. WHERE POSSIBLE MATCH LOCATION OF PREVIOUS CONTROL. PROVIDE WIRE MOLD TO CONCEAL EXPOSED CONTROL WIRING AND TUBING. COLOR TO BE SELECTED BY THE ARCHITECT.
- COORDINATE THERMOSTAT, SENSOR, AND SWITCH LOCATIONS WITH EXISTING CONDITIONS AND THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION. WHERE POSSIBLE MATCH LOCATION OF PREVIOUS CONTROL. PROVIDE WIRE MOLD TO CONCEAL EXPOSED CONTROL WIRING AND TUBING. COLOR TO BE SELECTED BY THE ARCHITECT.
- BALANCE AIR AND WATER SYSTEMS TO THE QUANTITIES SHOWN AND SUBMIT BALANCE REPORT(S) TO THE ARCHITECT/ENGINEER FOR REVIEW.
- PORTIONS OF THIS BUILDING WILL BE OCCUPIED DURING THIS CONSTRUCTION PROJECT. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE SCHEDULING OF THEIR WORK WITH THE GENERAL CONTRACTOR. CLEAN UP AT THE END OF EACH DAY.
- ACCESS DOORS SHALL BE INSTALLED IN ORDER TO PROVIDE ACCESS TO MECHANICAL SYSTEMS LOCATED ABOVE INACCESSIBLE CEILINGS. WHETHER OR NOT SHOWN ON THE DRAWINGS, ACCESS DOORS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR. ACCESS DOOR LOCATIONS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. PROVIDE 12"x12" ACCESS DOORS FOR HAND ACCESS AND 24"x24" ACCESS DOORS FOR HEAD AND SHOULDER ACCESS.

NOT FOR CONSTRUCTION

Owner
City of Greeley

970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037



The Ballard Group, Inc.
Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

City of Greeley
GREELEY FIRE STATION #6
10603 20TH ST, GREELEY COLORADO 80634



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TVS
JJG

Project Status
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75% DESIGN

Issue Date
6/26/2019
9/13/2019

Revision Issue
Rev. # Description Date

MECHANICAL COVER SHEET -
LEGEND, GENERAL NOTES &
SHEET INDEX

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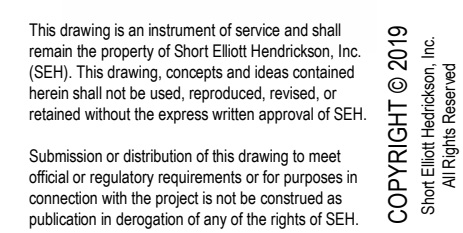
970.350.9777

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514



City of Greeley
GREELEY FIRE STATION #6

10603 20TH ST, GREELEY COLORADO 80634



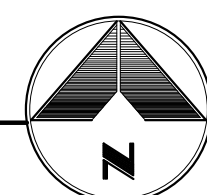
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HVAC FLOOR PLAN - LEVEL 1

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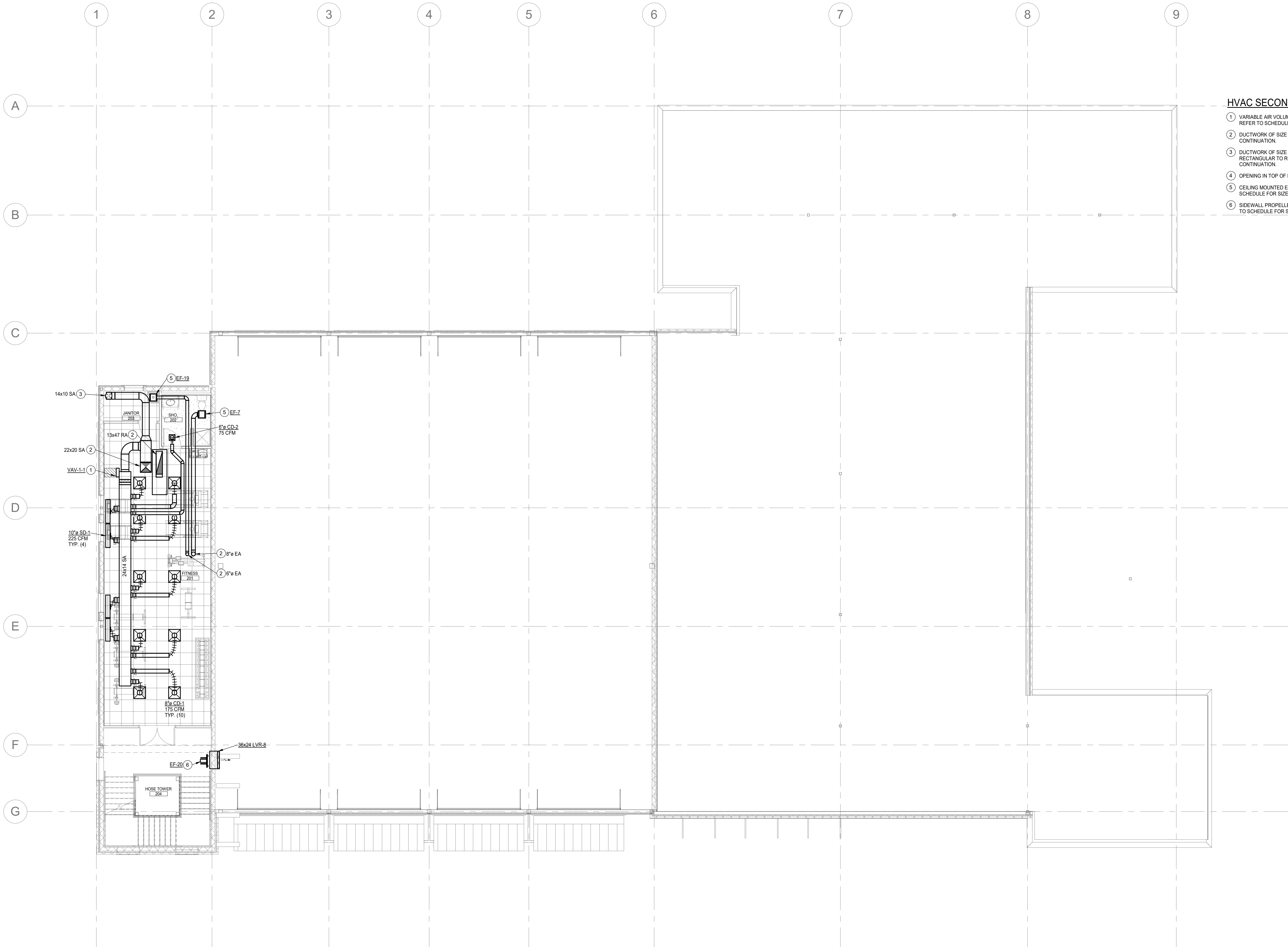


SCALE: 1/8" = 1'-0"



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HVAC SECOND FLOOR PLAN KEYNOTES:

- 1 VARIABLE AIR VOLUME TERMINAL UNIT WITH REHEAT COIL AS INDICATED. REFER TO DETAIL. REFER TO SCHEDULE FOR SIZE AND CAPACITY.
- 2 DUCTWORK OF SIZE AND TYPE INDICATED UP TO ROOF ABOVE. REFER TO ROOF HVAC PLAN FOR CONTINUATION.
- 3 DUCTWORK OF SIZE AND TYPE INDICATED DOWN TO LEVEL BELOW. TRANSITION FROM RECTANGULAR TO ROUND IN VERTICAL AS INDICATED. REFER TO LEVEL 1 HVAC FLOOR PLAN FOR CONTINUATION.
- 4 OPENING IN TOP OF DUCT OF SIZE INDICATED. PROVIDE OPENING WITH 1/2" BIRD SCREEN.
- 5 CEILING MOUNTED EXHAUST FAN IN CEILING AS INDICATED. REFER TO DETAIL. REFER TO SCHEDULE FOR SIZE AND CAPACITY.
- 6 SIDEWALL PROPELLER EXHAUST FAN MOUNTED ON DUCTWORK ATTACHED TO LOUVER. REFER TO SCHEDULE FOR SIZE AND CAPACITY. REFER TO DETAIL.

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Owner
City of Greeley

970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

The Ballard Group, Inc.
Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

City of Greeley
GREELEY FIRE STATION #6
10803 20TH ST, GREELEY COLORADO 80634

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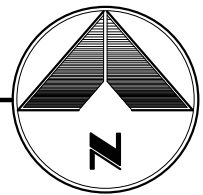
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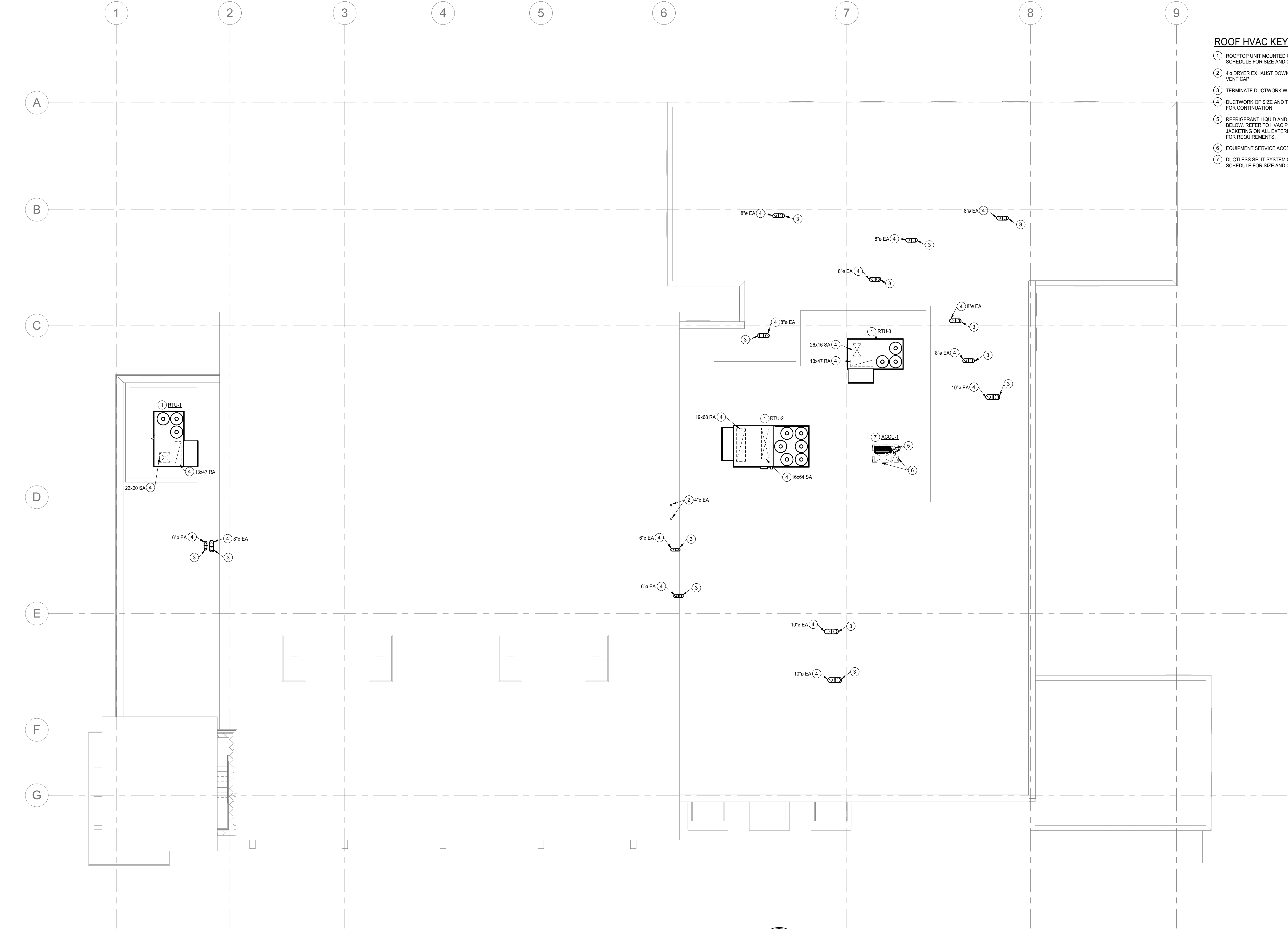
HVAC FLOOR PLAN - LEVEL 2

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LEVEL 2 HVAC FLOOR PLAN

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





ROOF HVAC KEYNOTES:

- 1 ROOFTOP UNIT MOUNTED ON 14" ROOF CUR AND 6" CONCRETE HOUSEKEEPING PAD. REFER TO SCHEDULE FOR SIZE AND CAPACITY.
- 2 4" DRYER EXHAUST DOWN THROUGH ROOF. TERMINATE WITH MANUFACTURER'S APPROVED ROOF VENT CAP.
- 3 TERMINATE DUCTWORK WITH GOOSENECK A MINIMUM OF 24" ABOVE ROOF LINE.
- 4 DUCTWORK OF SIZE AND TYPE INDICATED DOWN THROUGH ROOF. REFER TO HVAC FLOOR PLANS FOR CONTINUATION.
- 5 REFRIGERANT LIQUID AND REFRIGERANT SUCTION LINES SET DOWN THROUGH ROOF TO LEVEL BELOW. REFER TO HVAC PIPING FLOOR PLANS FOR CONTINUATION. PROVIDE ALUMINUM JACKETING ON ALL EXTERIOR REFRIGERANT PIPING INSULATION. REFER TO SPECIFICATION 230700 FOR REQUIREMENTS.
- 6 EQUIPMENT SERVICE ACCESS AND CLEARANCE, TYPICAL.
- 7 DUCTLESS SPLIT SYSTEM CONDENSING UNIT MOUNTED ON ROOF CURB AS INDICATED. REFER TO SCHEDULE FOR SIZE AND CAPACITY.

Owner
City of Greeley

970.350.9777

Architect/Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect
DHM Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

The Ballard Group, Inc.
Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

City of Greeley
GREELEY FIRE STATION #6
10803 20TH ST, GREELEY COLORADO 80634

City of
Greeley
Colorado

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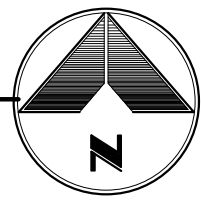
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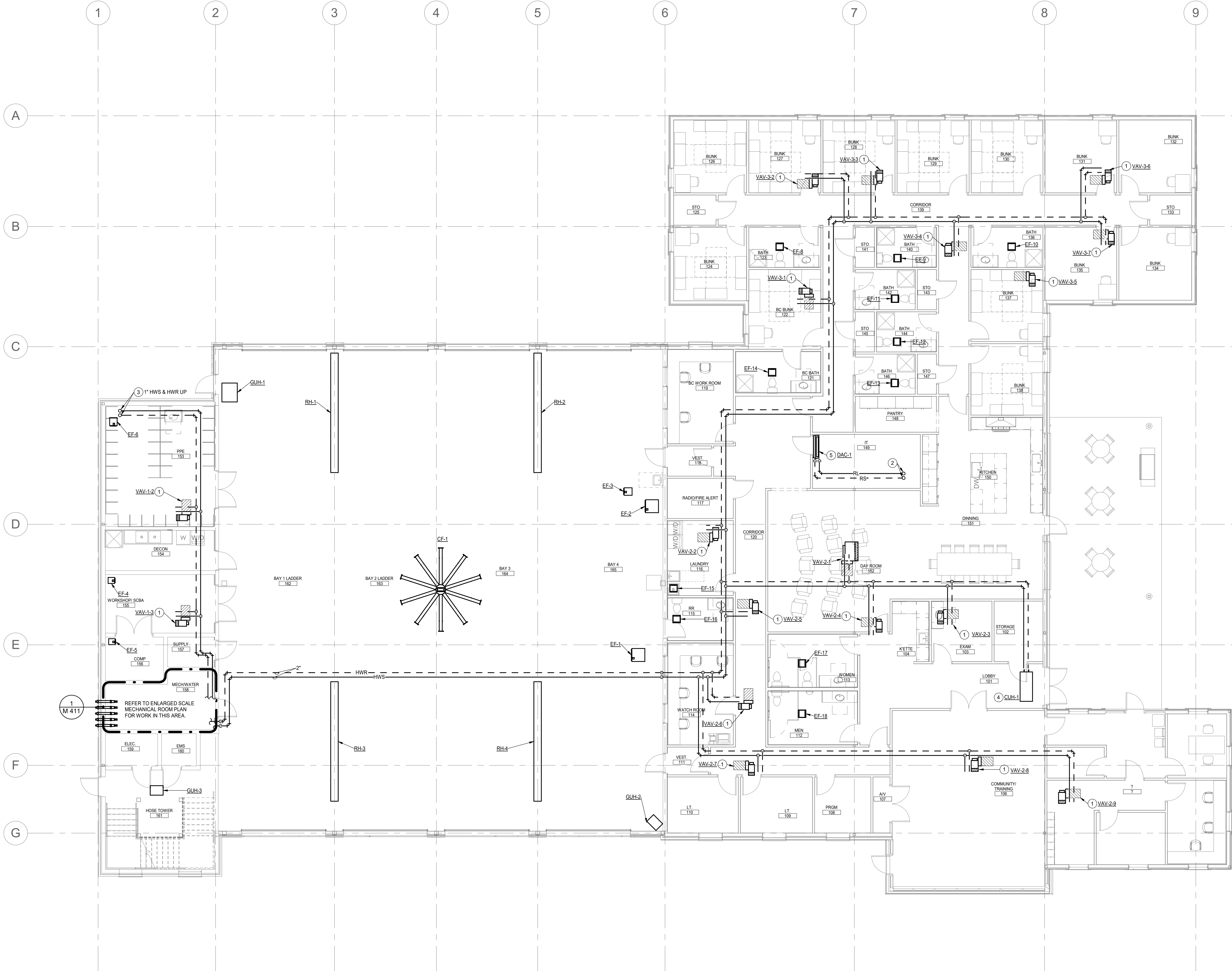
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ROOF HVAC PLAN

ROOF HVAC PLAN

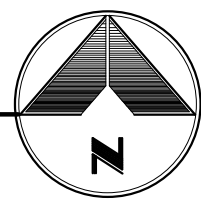
SCALE: 1/8" = 1'-0"





LEVEL 1 HVAC PIPING FLOOR PLAN

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



HVAC FIRST FLOOR PIPING PLAN KEYNOTES:

- 1 VARIABLE AIR VOLUME TERMINAL UNIT WITH REHEAT COIL AS INDICATED. REFER TO DETAIL. REFER TO SCHEDULE FOR SIZE AND CAPACITY.
- 2 REFRIGERANT LIQUID AND REFRIGERANT SUCTION LINES UP TO ROOF ABOVE. REFER TO ROOF HVAC PLAN FOR CONTINUATION.
- 3 PIPING OF SIZE AND TYPE INDICATED UP TO LEVEL ABOVE. REFER TO LEVEL 2 HVAC PIPING FLOOR PLAN FOR CONTINUATION.
- 4 CABINET UNIT HEATER SUPPORTED FROM STRUCTURE ABOVE. REFER TO DETAIL. REFER TO SCHEDULE FOR SIZE AND CAPACITY.
- 5 DUCTLESS SPLIT SYSTEM FAN COIL UNIT MOUNTED ON WALL AS INDICATED. MOUNT UNIT AS HIGH AS POSSIBLE WITHIN THE SPACE. COORDINATE FINAL LOCATION WITH EQUIPMENT IN SPACE. REFER TO SCHEDULE FOR SIZE AND CAPACITY.
- 6 BDC BUILDING NETWORK CONTROLLER (JACE) MOUNTED ON WALL AS INDICATED. COORDINATE FINAL LOCATION WITH EQUIPMENT IN SPACE. REFER TO CONTROL DRAWINGS FOR REQUIREMENTS.
- 7 HEATING WATER SYSTEM DIFFERENTIAL PRESSURE TRANSMITTER HWS-DPT-1 AS INDICATED. REFER TO CONTROL DRAWINGS FOR REQUIREMENTS.

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Owner
City of Greeley

970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

The Ballard Group, Inc.
Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

City of Greeley

GREELEY FIRE STATION #6

10803 20TH ST, GREELEY COLORADO 80634

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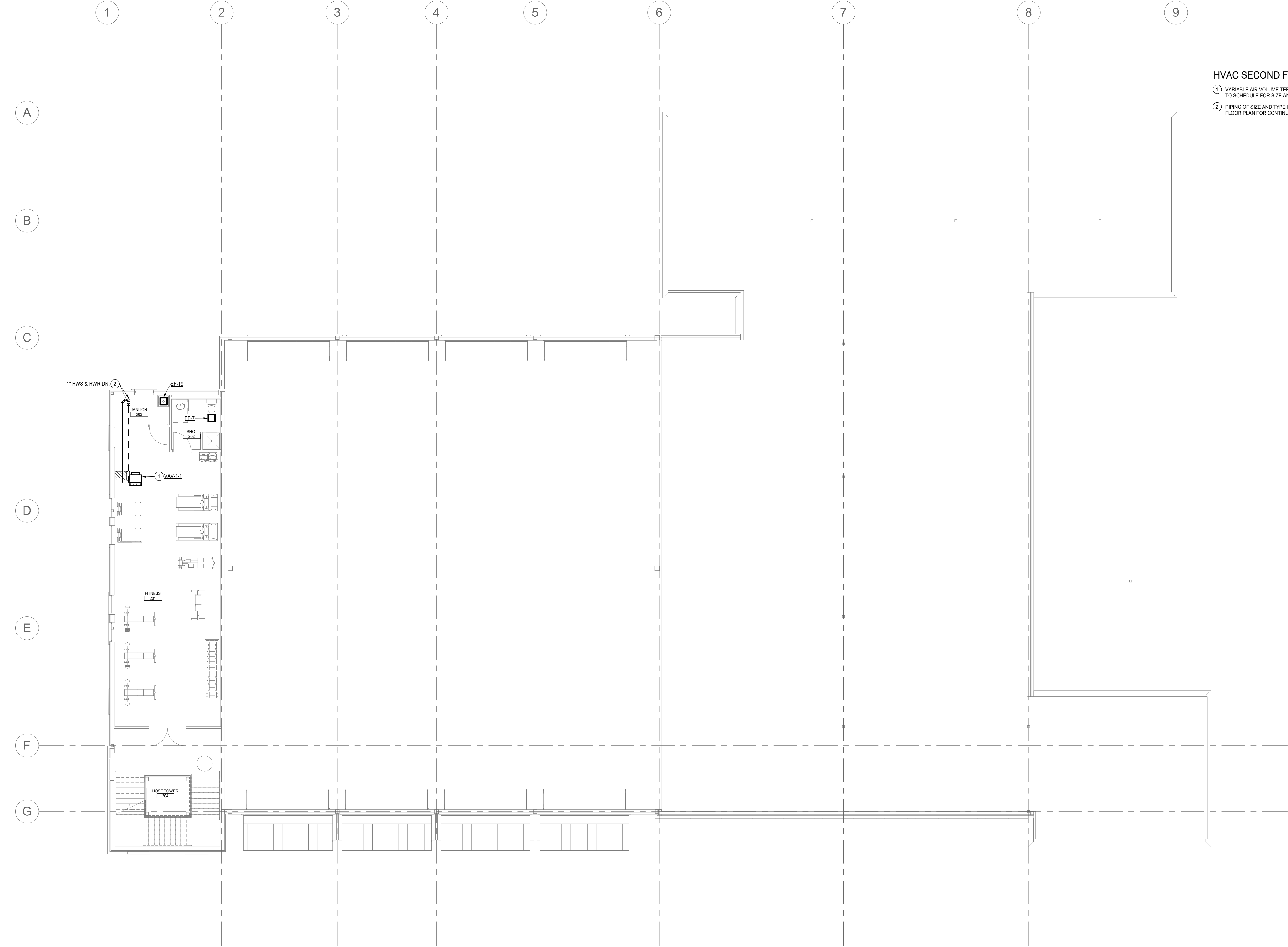
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150268
TVS
JJS

SEH Project	150268
Checked By	TVS
Drawn By	JJS
Project Status	Issue Date
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75% DESIGN	9/13/2019

Revision Issue		
Rev. #	Description	Date

HVAC PIPING FLOOR PLAN - LEVEL 1



HVAC SECOND FLOOR PIPING PLAN KEYNOTES:

- ① VARIABLE AIR VOLUME TERMINAL UNIT WITH REHEAT COIL AS INDICATED. REFER TO DETAIL, REFER TO SCHEDULE FOR SIZE AND CAPACITY.
- ② PIPING OF SIZE AND TYPE INDICATED DOWN TO LEVEL BELOW. REFER TO LEVEL 1 HVAC PIPING FLOOR PLAN FOR CONTINUATION.

Owner
City of Greeley

970.350.9777

Architect/Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800


Landscape Architect
DHM Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037


The Ballard Group, Inc.
Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

City of Greeley
GREELEY FIRE STATION #6
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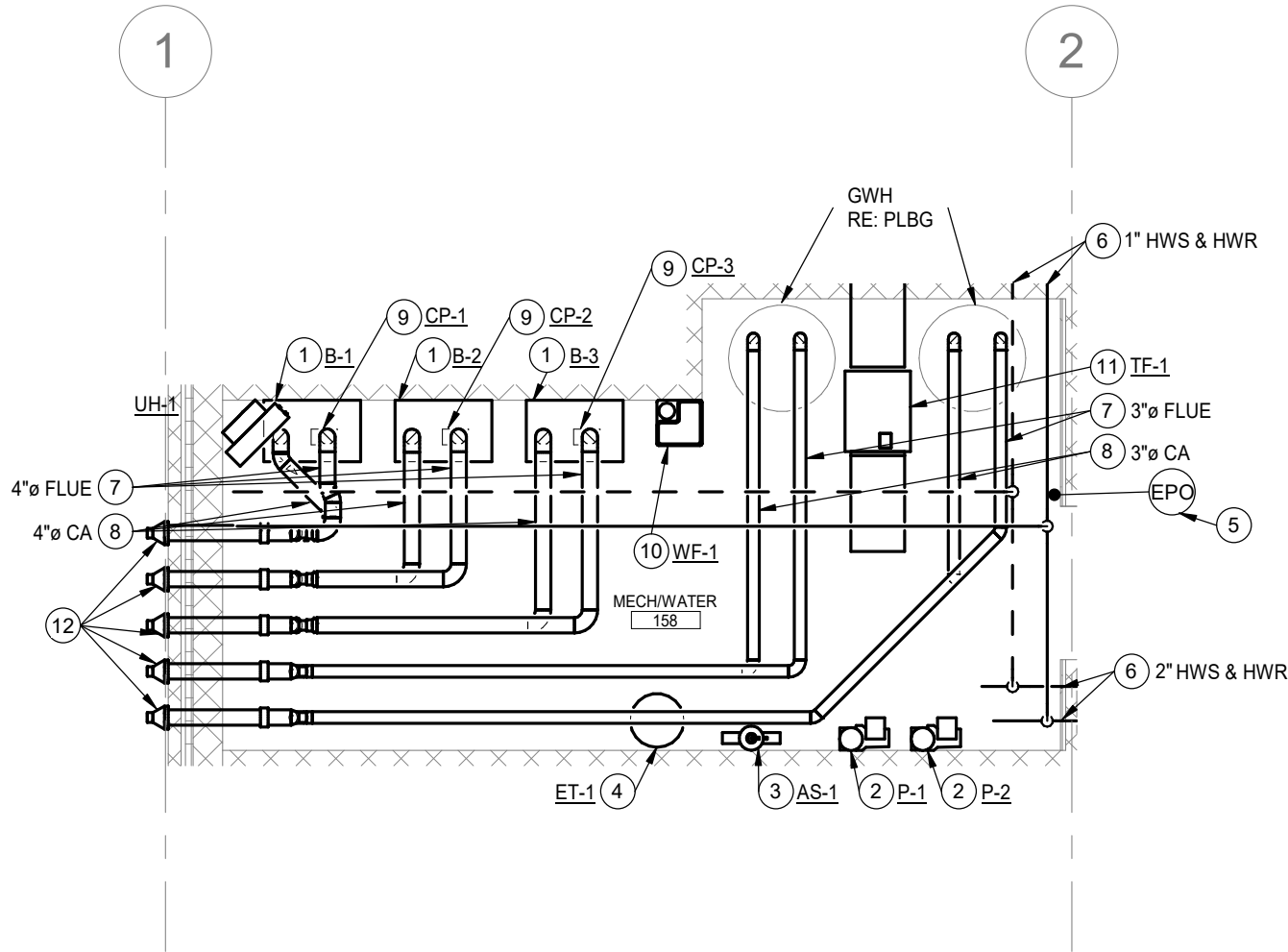
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HVAC PIPING FLOOR PLAN - LEVEL
2

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ENLARGED HVAC MECHANICAL ROOM PLAN
SCALE: 1/4" = 1'-0"

ENLARGED HVAC MECHANICAL ROOM KEYNOTES:

- CONDENSING BOILER MOUNTED ON WALL AS INDICATED WITH BOILER CIRCULATION PUMP SUPPORTED FROM PIPING BELOW. REFER TO DETAIL. REFER TO SCHEDULE FOR SIZE AND CAPACITY.
- INLINE HEATING WATER CIRCULATION PUMP AS INDICATED MOUNTED ON WALL. REFER TO DETAIL. REFER TO SCHEDULE FOR SIZE AND CAPACITY.
- AIR/DIRTYHYDRAULIC SEPARATOR SUPPORTED FROM WALL MOUNTED PIPING AS INDICATED. REFER TO DETAIL. REFER TO SCHEDULE FOR SIZE AND CAPACITY.
- EXPANSION TANK MOUNTED ON 4" CONCRETE HOUSEKEEPING PAD AS INDICATED. REFER TO DETAIL. REFER TO SCHEDULE FOR SIZE AND CAPACITY.
- BOILER EMERGENCY POWER OFF (EPO) SWITCH. REFER TO CONTROL DRAWINGS FOR REQUIREMENTS.
- PIPING OF SIZE AND TYPE INDICATED OUT OF MECHANICAL ROOM TO MAIN BUILDING. REFER TO HVAC PIPING FLOOR PLANS FOR CONTINUATION.
- CPVC FLUE OF SIZE INDICATED TO CONCENTRIC VENT SIDEWALL TERMINATION. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- CPVC COMBUSTION AIR OF SIZE INDICATED TO CONCENTRIC VENT SIDEWALL TERMINATION. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- INLINE BOILER CIRCULATION PUMP BELOW BOILER AS INDICATED. REFER TO DETAIL. REFER TO SCHEDULE FOR SIZE AND CAPACITY.
- WATER FEEDER TO SERVE AS MAKE UP WATER FOR HYDRONIC SYSTEM. REFER TO DETAIL. REFER TO SCHEDULE FOR SIZE AND CAPACITY.
- INLINE TRANSFER FAN HUNG FROM STRUCTURE ABOVE. REFER TO DETAIL. REFER TO SCHEDULE FOR SIZE AND CAPACITY.
- HORIZONTAL CONCENTRIC VENT SIDEWALL TERMINATION. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- HEATING WATER SYSTEM DDC TEMPERATURE CONTROL PANEL ON WALL AS INDICATED. REFER TO CONTROL DRAWINGS FOR REQUIREMENTS.



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CONSTRUCTION

Owner
City of Greeley

970.350.9777

Architect/Civil Engineer/ Structural

Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect

DHM Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer

The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer

CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037



The Ballard Group, Inc.
Mechanical Consulting Engineers

2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

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ENLARGED SCALE HVAC
MECHANICAL ROOM PLAN

M
411

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ROOFTOP UNIT SCHEDULE (GAS FIRED HEATING & DX COOLING - EXHAUST FAN)																																						
PLAN CODE	MANUFACTURER & MODEL NUMBER	AREA SERVED	COOLING CAPACITY (NOTE: 1)								HEATING CAPACITY (NOTE: 2,5)				SUPPLY FAN					EXHAUST FAN (NOTE: 13)					FILTER DATA		ELECTRICAL				DIMENSIONS				REMARKS			
			NOMINAL TONS	EFFICIENCY EER (IEER)	TOTAL MBH	SENS. MBH	AMBIENT °F	EAT		LAT	MBH INPUT @ S.L.	MBH OUTPUT @ ALT. (5,000')	EAT	LAT	CFM (CLG)	MIN. O.A. CFM	CFM (HTG)	HP (BHP)	ESP	CFM	ESP	HP	MICROMETL MODEL	MCA	MOCP	TYPE	% EFF.	V/ø/Hz	SCCR /AIC RATING	MCA	MOCP	H (IN)	L (IN)	W (IN)		WT (LBS)		
								DB (°F)	WB (°F)																												DB (°F)	WB (°F)
RTU-1	CARRIER 48LCS008A	FITNESS/WORK AREAS	7.5	12.8 (19.3)	74.2	66.9	95.0	77.4	62.4	53.9	53.9	150.0	96.0	50.9	84.6	3,200	700	3,200	5.0 (3.3)	1.6	2,900	0.5"	1.0	PCD-SRT05CA-D-2M1	7.3	13.1	2" TA	MERV 8	208/3/60		47.0	60.0	79"	116"	64"	2,600	NOTE: 3,4,6,7,8,9,10,11,12	
RTU-2	CARRIER 48LCT024A	RESIDENTIAL SIDE	20.0	12.0 (18.0)	219.7	210.7	95.0	80.2	59.3	53.9	49.6	400.0	256.0	45.0	77.0	9,000	2,650	9,000	10.0 (8.6)	1.6	8,100	0.5"	4.0	PCC-MRT69CA-D-2M4	24.5	44.1	2" TA	MERV 8	208/3/60		119.0	150.0	79"	158"	87"	3,950	NOTE: 3,4,6,7,8,9,10,11,12	
RTU-3	CARRIER 48LCS009A	DORMS	8.5	13.5 (20.8)	93.0	90.0	95.0	80.5	56.4	53.9	45.9	150.0	96.0	49.5	77.9	3,800	900	3,800	5.0 (3.8)	1.6	3,425	0.5"	1.0	PCD-SRT05CA-D-2M1	7.3	13.1	2" TA	MERV 8	208/3/60		50.0	60.0	79"	116"	64"	2,600	NOTE: 3,4,6,7,8,9,10,11,12	
<div>NOTES:</div> <div><div>1. LEAVING AIR TEMPERATURE (LAT) IS TEMPERATURE OFF THE COOLING COIL AND NOT THE SYSTEM SUPPLY AIR TEMPERATURE. SYSTEM SAT = 55°F.</div><div>2. HEATING ENTERING AIR TEMPERATURE IS MIXED AIR TEMPERATURE AT SUPPLY FAN HEATING CFM.</div><div>3. UNIT HEIGHT INCLUDES 14" ROOF CURB AND 6" CONCRETE PAD.</div><div>4. UNIT WEIGHT DOES NOT INCLUDE 6" CONCRETE PAD.</div><div>5. UNIT NATURAL GAS PRESSURE SHALL BE 4" TO 13" W.C.</div><div>6. MULTI ZONE VARIABLE AIR VOLUME ROOFTOP AIR HANDLING UNIT, PROVIDE VFDS ON SUPPLY AND EXHAUST FANS.</div><div>7. PROVIDE UNIT WITH THREE STAGES OF COOLING.</div><div>8. PROVIDE UNIT WITH FULLY MODULATING STAINLESS STEEL GAS BURNER.</div><div>9. PROVIDE UNIT WITH HIGH ALTITUDE GAS CONVERSION KIT.</div><div>10. PROVIDE UNIT WITH OPEN CONTROL BAGNET CARD.</div><div>11. PROVIDE UNIT WITH MICROMETL POWER EXHAUST.</div><div>12. PROVIDE UNIT WITH FACTORY WIRED CONVENIENCE OUTLET</div><div>13. POWER EXHAUST REQUIRES A SEPARATE ELECTRICAL CONNECTION AND FIELD SUPPLIED DISCONNECT.</div></div>																																						

COOLING ONLY SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE																																										
FAN COIL UNIT																				CONDENSING UNIT																						
FAN COIL UNIT			CFM @ ALT.	ESP	SUPPLY FAN		COOLING COIL					TOTAL CAP. (MBH)	SENS. CAP. (MBH)	EAT		LAT		DIMENSIONS			WT. (LBS)	PLAN CODE	MANUF. & MODEL NO.	CAPACITY		AMBIENT	SST (°F)	ELECTRICAL (NOTE: 1)								DIMENSIONS			WT. (LBS)	REMARKS		
PLAN CODE	MANUF. & MODEL NO.	SERVICE			WATTS	RPM	REFRIG.	SYSTEM CHARGE	ROWS	FINS/ INCH	SST (°F)			DB (°F)	WB (°F)	DB (°F)	WB (°F)	W	D	H				TONS	MBH			COMPRESSOR				CONDENSER				SYSTEM MCA	SYSTEM MOCP	W			H	D
																												NO.	RLA	V/ø/Hz	RPM	NO.	WATTS	V/ø/Hz	RPM							
DAC-1	MITSUBISHI PKA-A24		700	0.0	56.0	1,250	R410A	6 lb 10 oz	2	19.5	45.0	22.9	21.5	85.0	61.0	50.5	48.0	46"	12"	14"	46.0	ACCU-1	MITSUBISHI PUY-A24	2.0	24.0	100.0	45.0	1	12.0	208/1/60	-	1	75.0	208/1/60	750.0	18.0	30.0	37"	37"	14"	175.0	NOTE: 2,3
<div>NOTES:</div> <div><div>1. SYSTEM REQUIRES ONE ELECTRICAL CIRCUIT. POWER IS FED TO THE OUTDOOR CONDENSING UNIT. A BRANCH LINE IS THEN FED FROM THE CONDENSING UNIT TO THE INDOOR UNIT. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR DETAILS.</div><div>2. PROVIDE UNIT WITH MANUFACTURER SUPPLIED MICROPROCESSOR CONTROLLER AND LOW AMBIENT CONTROL.</div><div>3. PROVIDE WITH HARD WIRED ELECTRONIC PROGRAMMABLE WALL THERMOSTAT.</div></div>																																										

RADIANT HEATER SCHEDULE (GAS FIRED)								
PLAN CODE	MANUFACTURER. & MODEL NO.	RADIANT HEATER						REMARKS
		MBH INPUT @ S.L.	TUBE LENGTH (FT)	REFLECTOR	MOUNTING HEIGHT (FT)	ELECTRICAL		
						VOLTS/HZ	AMPS	
RH-1	SUPERIOR TA08N	80.0	20	STANDARD	20'-0"	120/60	1.0	NOTES: 1,2,3
RH-2	SUPERIOR TA08N	80.0	20	STANDARD	20'-0"	120/60	1.0	NOTES: 1,2,3
RH-3	SUPERIOR TA08N	80.0	20	STANDARD	20'-0"	120/60	1.0	NOTES: 1,2,3
RH-4	SUPERIOR TA08N	80.0	20	STANDARD	20'-0"	120/60	1.0	NOTES: 1,2,3
<div>NOTES:</div> <div><div>1. TRUE 2-STAGE GAS AND COMBUSTION AIR FAN MODULATION.</div><div>2. PROVIDE WITH GAS FLEX CONNECTOR, CHAIN HANGING KIT AND 2-STAGE WALL THERMOSTAT WITH NIGHT SETBACK.</div><div>3. RADIANT HEATER SHALL OPERATE WITH A NATURAL GAS PRESSURE RANGE OF 5'-14" W.C.</div></div>								

GRILLES, REGISTERS & DIFFUSERS SCHEDULE									
PLAN CODE	MANUFACTURER & MODEL NO.	TYPE & SERVICE	NECK SIZE	FACE SIZE	VOLUME DAMPER (OBD)	MATERIAL	MOUNTING TYPE	FINISH	REMARKS
CD-1	PRICE SMDA	SUPPLY	AS NOTED	24"x24"	NO	STEEL	LAY-IN	WHITE	NOTE: 1
CD-2	PRICE SMDA	SUPPLY	AS NOTED	12"x12"	NO	STEEL	SURFACE	WHITE	NOTE: 2,3
SD-1	PRICE SDS 150	SUPPLY	AS NOTED	48"x9.0625"	NO	ALUMINUM	LAY-IN	WHITE	NOTE: 4
SG-1	PRICE 520	SUPPLY	AS NOTED	NECK+1.75"	NO	STEEL	SURFACE	WHITE	
SR-1	AIR CONCEPTS DL-C	SUPPLY	AS NOTED	NECK+2.5"	YES	STEEL	DUCT	BY ARCH.	
RG-1	PRICE PDDR	RETURN	AS NOTED	24"x24"	NO	STEEL	LAY-IN	WHITE	NOTE: 5
RG-2	PRICE PDDR	RETURN	AS NOTED	24"x24"	NO	STEEL	LAY-IN	WHITE	NOTE: 5
RG-3	PRICE 535	EXHAUST	AS NOTED	NECK+1.75"	NO	STEEL	LAY-IN	WHITE	NOTE: 5
TG-1	PRICE 535	EXHAUST	AS NOTED	NECK+1.75"	NO	STEEL	SURFACE	WHITE	
ER-1	PRICE SDGE	EXHAUST	AS NOTED	NECK+1"	YES	STEEL	DUCT	BY ARCH.	
<div>NOTES:</div> <div><div>1. 24"x24" MODULE WITH FULL LOUVERED FACE.</div><div>2. 12"x12" MODULE WITH FULL LOUVERED FACE.</div><div>3. PROVIDE HARD LID TRIM KIT.</div><div>4. PROVIDE (4)-1-1/2" SLOTS AND MANUFACTURER'S INSULATED SUPPLY PLENUM.</div><div>5. PROVIDE FIELD FABRICATED SOUND BOOT. REFER TO DETAIL.</div></div>									

HVLS FAN SCHEDULE												
PLAN CODE	MANUFACTURER & MODEL NO.	SERVICE	RPM @ S.L.	MOTOR		DIMENSIONS			WT (LBS)	VIB. ISOL.	DAMPER TYPE	REMARKS
				MCA	V/ø/HZ	H	W	L				
CF-1	BIG ASS FANS ESSENCE	BAYS	56	10.0	120/1/60	NOTE: 7	14ø	100	NONE	NONE	NOTES: 1,2,3,5,6	
<div>NOTES:</div> <div><div>1. AIRFOIL, HARDWARE AND COLOR SELECTION BY ARCHITECT.</div><div>2. PROVIDE WITH WIRED WALL CONTROLLER. INSTALL PER MANUFACTURER'S REQUIRMENTS.</div><div>3. PROVIDE WITH EXTENSION TUBE.</div><div>4. PROVIDE WITH TALL CEILING KIT AND STABILIZER KIT.</div><div>5. COORDINATE MOUNTING TYPE WITH STRUCTURE ABOVE.</div><div>6. INTERLOCK FAN WITH FIRE CONTROL PANEL FOR SHUTDOWN DURING ACTIVATION.</div><div>7. REFER TO DRAWINGS FOR INSTALLATION HEIGHT. COORDINATE EXTENSION ARM LENGTH WITH STRUCTURE ABOVE.</div></div>												

LOUVER SCHEDULE												
PLAN CODE	MANUFACTURER & MODEL NO.	SERVICE	FREE AREA (SQ. FT.)	CFM	VEL. (FPM)	A.P.D. (IN. W.C.)	MOUNTING TYPE	MATERIALS	SIZE (INCHES)			REMARKS
									W	H	D	
LVR-1	RUSKIN ELF375DX	BAY EXHAUST	2.9	2,750	942	0.19	STANDARD	NOTE: 1	36"	24"	4"	NOTES: 2,3
LVR-2	RUSKIN ELF375DX	BAY EXHAUST	2.9	2,400	822	0.14	STANDARD	NOTE: 1	36"	24"	4"	NOTES: 2,3
LVR-3	RUSKIN ELF375DX	BAY MAKE UP AIR	5.7	5,150	899	0.17	STANDARD	NOTE: 1	40"	40"	4"	NOTES: 2,3
LVR-4	RUSKIN ELF375DX	DECON & PPE STOR EXHAUST	0.5	300	608	0.08	STANDARD	NOTE: 1	16"	12"	4"	NOTES: 2,3
LVR-5	RUSKIN ELF375DX	WORKSHOP/SCBA EXHAUST	0.5	150	304	0.02	STANDARD	NOTE: 1	16"	12"	4"	NOTES: 2,3
LVR-6	RUSKIN ELF375DX	COMP	0.5	100	203	0.01	STANDARD	NOTE: 1	16"	12"	4"	NOTES: 2,3
LVR-7	RUSKIN ELF375DX	HOSE DRYER	1.2	900	736	0.11	STANDARD	NOTE: 1	24"	16"	4"	NOTES: 2,3
<div>NOTES:</div> <div><div>1. EXTRUDED ALUMINUM.</div><div>2. PROVIDE LOUVER WITH 1/2" BIRD SCREEN.</div><div>3. PROVIDE LOUVER WITH ANODIZED FINISH AND COLOR SELECTION BY ARCHITECT.</div></div>												

UNIT HEATER SCHEDULE (GAS FIRED)													
PLAN CODE	MANUFACTURER & MODEL NO.	MBH INPUT @ S.L.	CFM	RPM	ELECTRICAL				GAS CONN. SIZE	FLUE / CA SIZE	WEIGHT	REMARKS	
					HP	VOLTS	Ø	FLA					
GUH-1	TRANE GK 250	250.0	2,850	1,932	1	115	1	12.0	1/2"	5"ø	275	NOTE: 1,2,3,4,5,6	
GUH-2	TRANE GK 150	150.0	1,975	1,932	3/4	115	1	7.4	1/2"	5"ø	200	NOTE: 1,2,3,4,5,6	
GUH-3	TRANE GK 100	100.0	1,200	1,932	1/3	115	1	5.1	1/2"	5"ø	175	NOTE: 1,2,3,4,5,6	
<div>NOTES:</div> <div><div>1. PROVIDE SPRING ISOLATORS.</div><div>2. PROVIDE SINGLE STAGE LOW VOLTAGE ROOM THERMOSTAT</div><div>3. PROVIDE FACTORY MOUNTED FAN GUARD.</div><div>4. PROVIDE FACTORY MOUNTED POWER VENT ASSEMBLY.</div><div>5. PROVIDE 409 STAINLESS STEEL HEAT EXCHANGER.</div><div>6. NATURAL GAS - 5" TO 14" GAS INLET PRESSURE.</div></div>													



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Owner
City of Greeley

970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

The Ballard Group, Inc.
Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

City of Greeley
Greeley Fire Station #6
10803 20TH ST, GREELEY COLORADO 80634

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VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE (HOT WATER COIL)																								
PLAN CODE	MANUF. & MODEL NO.	THERMOSTAT LOCATION	INLET SIZE	AIR QUANTITY			INLET S.P. (IN WC)	UNIT P.D. (IN WC)	COIL SECTION (NOTE: 4)							DIMENSIONS			MAX. SOUND (dB)	CONTROL	VAV ZONE EXPOSURE	REMARKS		
				CLG (MAX)	CLG (MIN)	HTG CFM			MBH	GPM	WPD (FT)	COIL ROWS	EWT	EAT	LAT	H	L	W						
VAV-1-1	PRICE SDV	FITNESS 201	16	2,725	955	2,045	1.0"	0.581	72.9	4.0	5.0	2 HC	150.0	55.0	95.0	18"	29"	24"	66	DDC	EXTERIOR	NOTE: 1,2,3		
VAV-1-2	PRICE SDV	PPE 153	7	500	375	500	1.0"	0.327	17.8	1.0	5.0	2 HC	150.0	55.0	95.0	10"	25"	12"	61	DDC	EXTERIOR	NOTE: 1,2,3		
VAV-1-3	PRICE SDV	WORKSHOP/SCBA 155	6	300	300	300	1.0"	0.233	10.7	1.0	5.0	2 HC	150.0	55.0	95.0	8"	25"	12"	54	DDC	EXTERIOR	NOTE: 1,2,3		
VAV-2-1	PRICE SDV	KITCHEN 150	24x16	3,225	1,130	2,420	1.0"		86.3	4.5	5.0	2 HC	150.0	55.0	95.0	18"	25"	38"	FALSE	DDC	EXTERIOR	NOTE: 1,2,3		
VAV-2-2	PRICE SDV	BC WORK ROOM 119	6	350	125	265	1.0"	0.317	9.4	0.5	5.0	2 HC	150.0	55.0	95.0	8"	25"	12"	56	DDC	EXTERIOR	NOTE: 1,2,3		
VAV-2-3	PRICE SDV	EXAM 103	6	275	100	275	1.0"	0.196	7.4	0.5	5.0	2 HC	150.0	55.0	85.0	8"	25"	12"	53	DDC	INTERIOR	NOTE: 1,2,3		
VAV-2-4	PRICE SDV	LOBBY 101	6	350	125	265	1.0"	0.317	9.4	0.5	5.0	2 HC	150.0	55.0	95.0	8"	25"	12"	56	DDC	EXTERIOR	NOTE: 1,2,3		
VAV-2-5	PRICE SDV	CORRIDORS	7	525	185	395	1.0"	0.361	14.1	1.0	5.0	2 HC	150.0	55.0	95.0	10"	25"	12"	62	DDC	EXTERIOR	NOTE: 1,2,3		
VAV-2-6	PRICE SDV	WATCH ROOM 114	6	300	105	225	1.0"	0.233	8.0	0.5	5.0	2 HC	150.0	55.0	95.0	8"	25"	12"	54	DDC	EXTERIOR	NOTE: 1,2,3		
VAV-2-7	PRICE SDV	LT 110	8	650	230	620	1.0"	0.451	22.1	1.5	5.0	2 HC	150.0	55.0	95.0	10"	25"	12"	61	DDC	EXTERIOR	NOTE: 1,2,3		
VAV-2-8	PRICE SDV	COMMUNITY/TRAINING 105	16	2,800	980	2,380	1.0"	0.613	63.6	3.5	5.0	2 HC	150.0	55.0	85.0	18"	29"	24"	67	DDC	INTERIOR	NOTE: 1,2,3		
VAV-2-9	PRICE SDV	POLICE SUBSTATION 105	14	1,750	615	1,315	1.0"	0.373	46.9	2.5	5.0	2 HC	150.0	55.0	95.0	18"	29"	20"	64	DDC	EXTERIOR	NOTE: 1,2,3		
VAV-3-1	PRICE SDV	BUNK 124	7	550	195	550	1.0"	0.396	19.6	1.0	5.0	2 HC	150.0	55.0	95.0	10"	25"	12"	63	DDC	EXTERIOR	NOTE: 1,2,3		
VAV-3-2	PRICE SDV	BUNK 126	7	500	175	500	1.0"	0.327	17.8	1.0	5.0	2 HC	150.0	55.0	95.0	10"	25"	12"	61	DDC	EXTERIOR	NOTE: 1,2,3		
VAV-3-3	PRICE SDV	BUNK 129	8	600	210	600	1.0"	0.384	21.4	1.5	5.0	2 HC	150.0	55.0	95.0	10"	25"	12"	60	DDC	EXTERIOR	NOTE: 1,2,3		
VAV-3-4	PRICE SDV	CORRIDOR	10	925	325	925	1.0"	0.423	33.0	2.0	5.0	2 HC	150.0	55.0	95.0	13"	25"	14"	60	DDC	EXTERIOR	NOTE: 1,2,3		
VAV-3-5	PRICE SDV	BUNK 138	7	500	175	500	1.0"	0.327	17.8	1.0	5.0	2 HC	150.0	55.0	95.0	10"	25"	12"	61	DDC	EXTERIOR	NOTE: 1,2,3		
VAV-3-6	PRICE SDV	BUNK 132	7	450	160	450	1.0"	0.265	16.0	1.0	5.0	2 HC	150.0	55.0	95.0	10"	25"	12"	60	DDC	EXTERIOR	NOTE: 1,2,3		
VAV-3-7	PRICE SDV	BUNK 134	7	500	175	375	1.0"	0.327	13.4	1.0	5.0	2 HC	150.0	55.0	95.0	10"	25"	12"	61	DDC	EXTERIOR	NOTE: 1,2,3		
<div>NOTES:</div> <div>1. MAXIMUM SOUND POWER SCHEDULED IS END DISCHARGE SOUND POWER LEVEL BASED ON MAXIMUM SCHEDULED AIRFLOW AT 1.0 W.G. INLET PRESSURE AT 500 HZ. OCTAVE BAND. REFER TO SPECIFICATION FOR FURTHER SOUND REQUIREMENTS.</div> <div>2. HEATING COIL DUTY RATED AT HTG CFM.</div> <div>3. MAXIMUM DIFFERENTIAL PRESSURE (P) IS AT MAXIMUM SCHEDULED AIRFLOW WITH REHEAT COIL WHERE INDICATED.</div> <div>4. SELECT HEATING COIL ASSUMING 0% P.G. SOLUTION AND AN ELEVATION OF 5000'.</div> <div>5. PROVIDE TERMINAL UNIT WITH THREE WAY VALVE.</div>																								

UNIT HEATER SCHEDULE (HOT WATER)																	
PLAN CODE	MANUF. & MODEL NO.	LOCATION	MBH	CFM	EAT °F	EWT °F	LWT °F	FLOW (GPM)	WPD (FT)	ELECTRICAL			DISCHARGE	MOUNT HT.	WT. (LBS)	CONTROL	REMARKS
										HP	V/ø/HZ	RPM					
UH-1	VULCAN HV-36	MECH WATER 158	11.3	480	60.0	150.0	110.0	1.0	1.5	25 W	120/1/60	1,550	HORIZONTAL	NOTE: 4	50	NOTE: 1	NOTE: 2,3
NOTES:																	
1. UNIT MOUNTED THERMOSTAT PROVIDED BY UNIT HEATER MANUFACTURER.								4. MOUNT UNIT HEATER AS HIGH AS POSSIBLE IN LOCATION INDICATED ON PLANS.									
2. HEATING WATER SYSTEM UTILIZES 0% GLYCOL.																	
3. PROVIDE UNIT WITH HIGH CAPACITY 2 ROW COIL.																	

CABINET UNIT HEATER SCHEDULE (HOT WATER)																		
PLAN CODE	MANUF. & MODEL NO.	LOCATION	MBH	CFM	EAT °F	EWT °F	LWT °F	FLOW (GPM)	WPD (FT)	ELECTRICAL			DIMENSIONS			WT. (LBS)	CONTROL	REMARKS
										HP	V/ø/Hz	RPM	D	L	H			
CUH-1	VULCAN RC-1200-06	LOBBY 101	33.5	630	60.0	150.0	110.0	2.0	1.5	1/10	120/1/60	1,050	25"	59"	10"	200	NOTE: 1	NOTE: 2,3,4,5,6
<div>NOTES:</div> <div><div>1. TIE CABINET UNIT HEATER TO TEMPERATURE SENSOR ASSOCIATED WITH VAV-2-1.</div><div>2. HOT WATER SYSTEM UTILIZES 0% PROPYLENE GLYCOL.</div><div>3. CEILING MOUNTED CABINET. INSTALL ABOVE CEILING WITH DUCT DISCHARGE FLANGE.</div><div>4. PROVIDE UNIT WITH FACTORY MOUNTED INTEGRAL DISCONNECT SWITCH.</div><div>5. PROVIDE WITH HIGH CAPACITY 2 ROW COIL.</div><div>6. REAR RETURN FRONT SUPPLY</div></div>																		

EXPANSION TANK SCHEDULE													
PLAN CODE	MANUFACTURER & MODEL NO.	SERVICE	TANK VOLUME	ACCEPT. VOLUME	SYSTEM VOLUME	EWT	MAX. AVERAGE TEMPERATURE	MIN. OPER. PRESSURE	MAX. OPER. PRESSURE	TANK SIZE		OPER. WEIGHT	REMARKS
										DIA.	HT.		
ET-1	ARMSTRONG 65-L	HEATING WATER	23.0	23.0	150.0	40.0	150.0	12.0	27.0	16"	37"	200	NOTE: 1,2,3
NOTES: 1. SYSTEMS CONTAINS 0% PROPYLENE GLYCOL. 2. SYSTEM VOLUME IS TOTAL VOLUME. 3. ASME PRESSURE RATING EQUALS 125 PSI.													

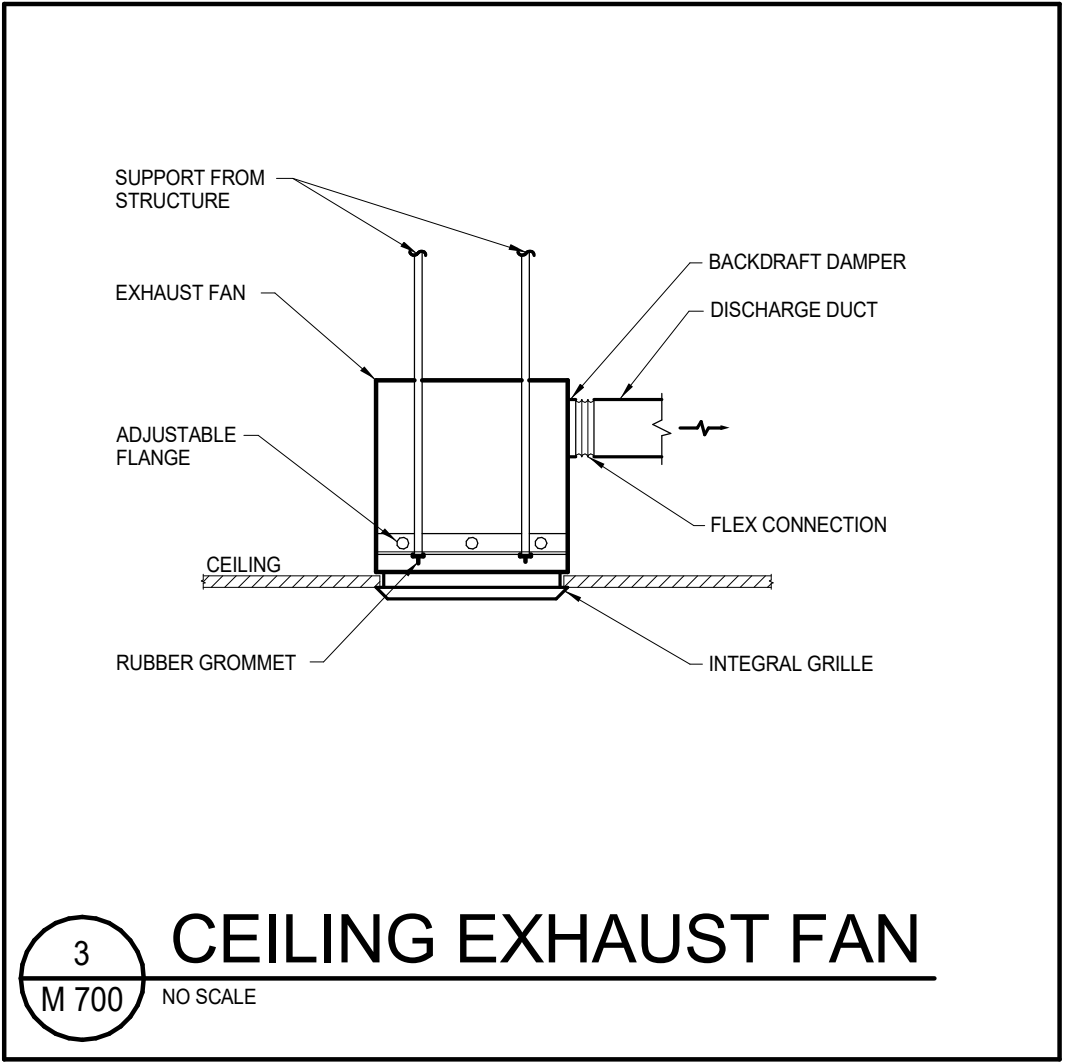
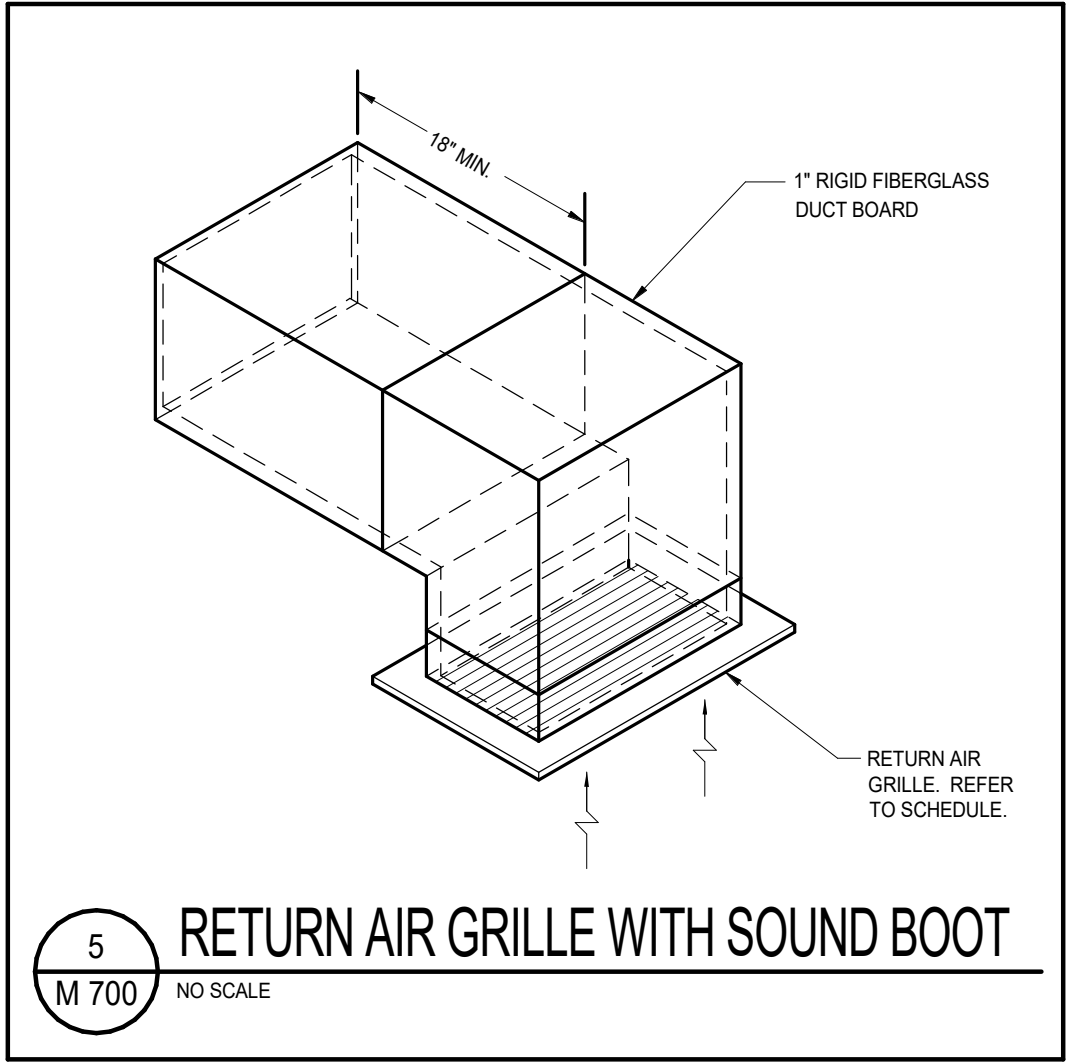
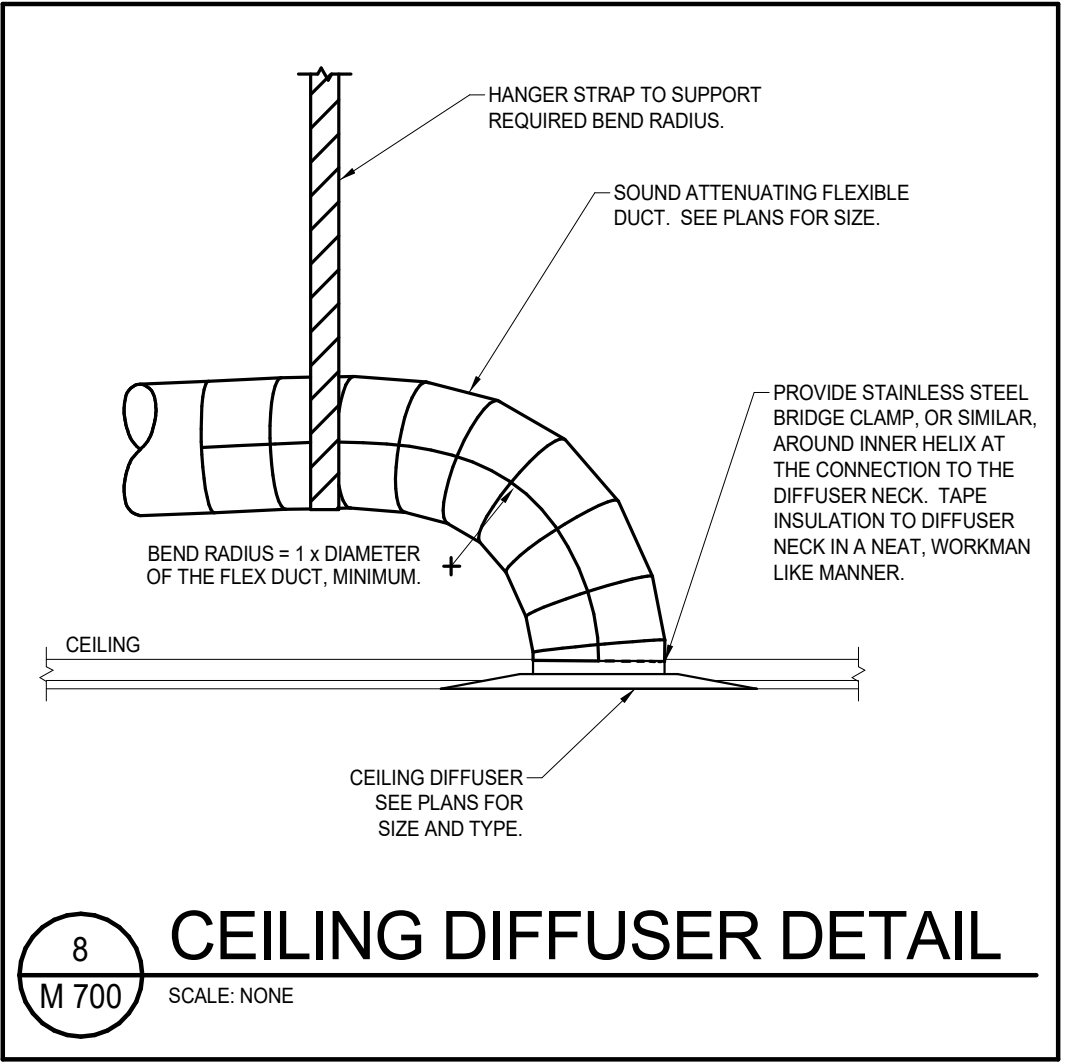
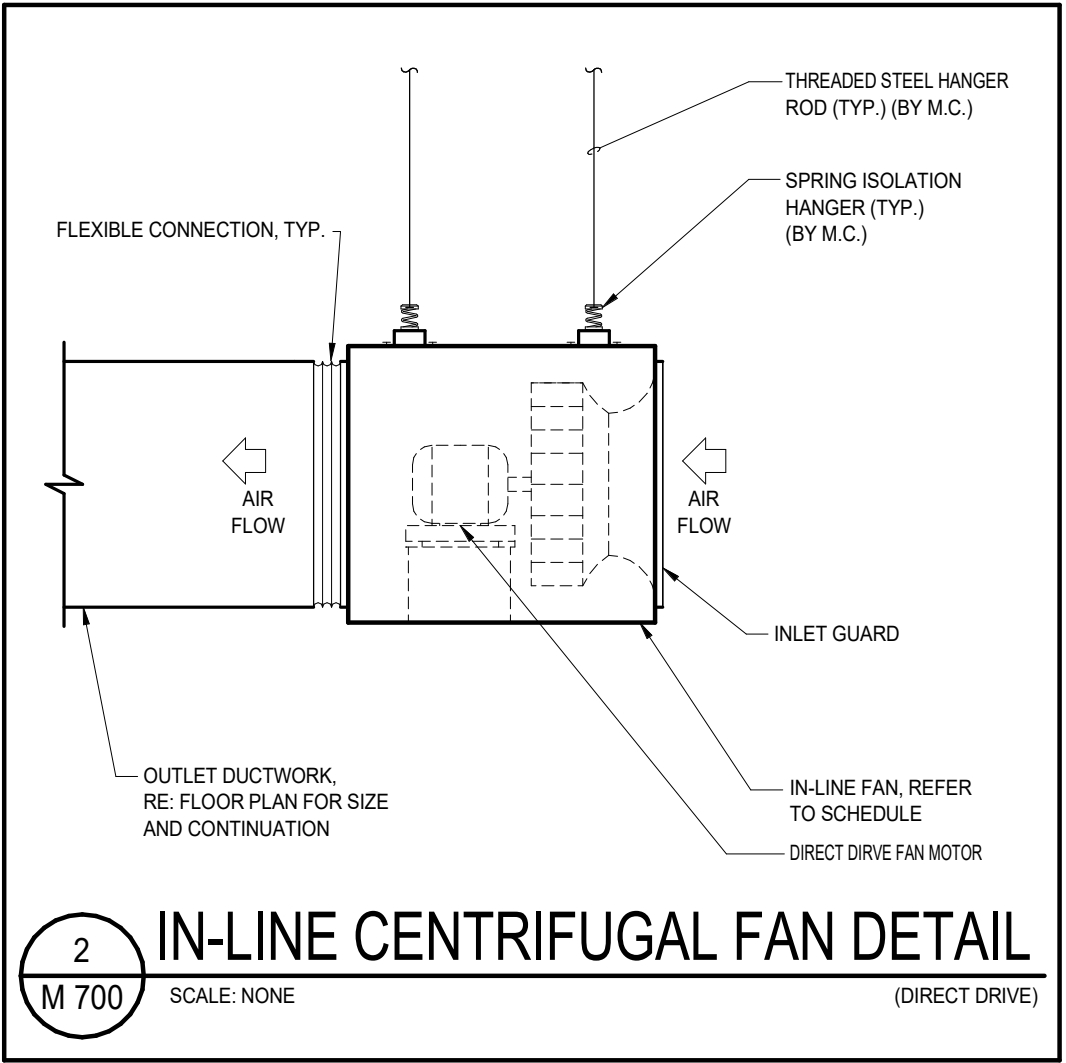
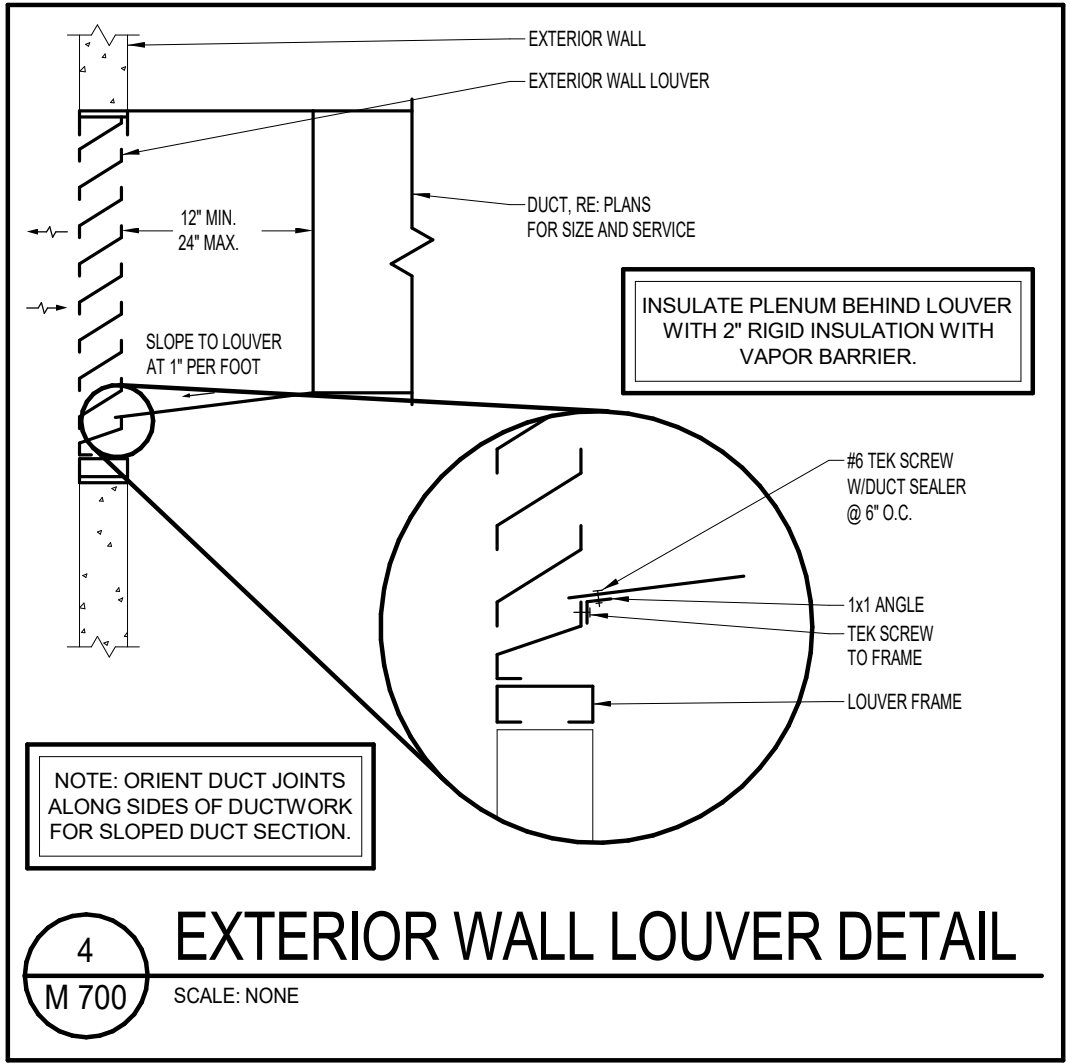
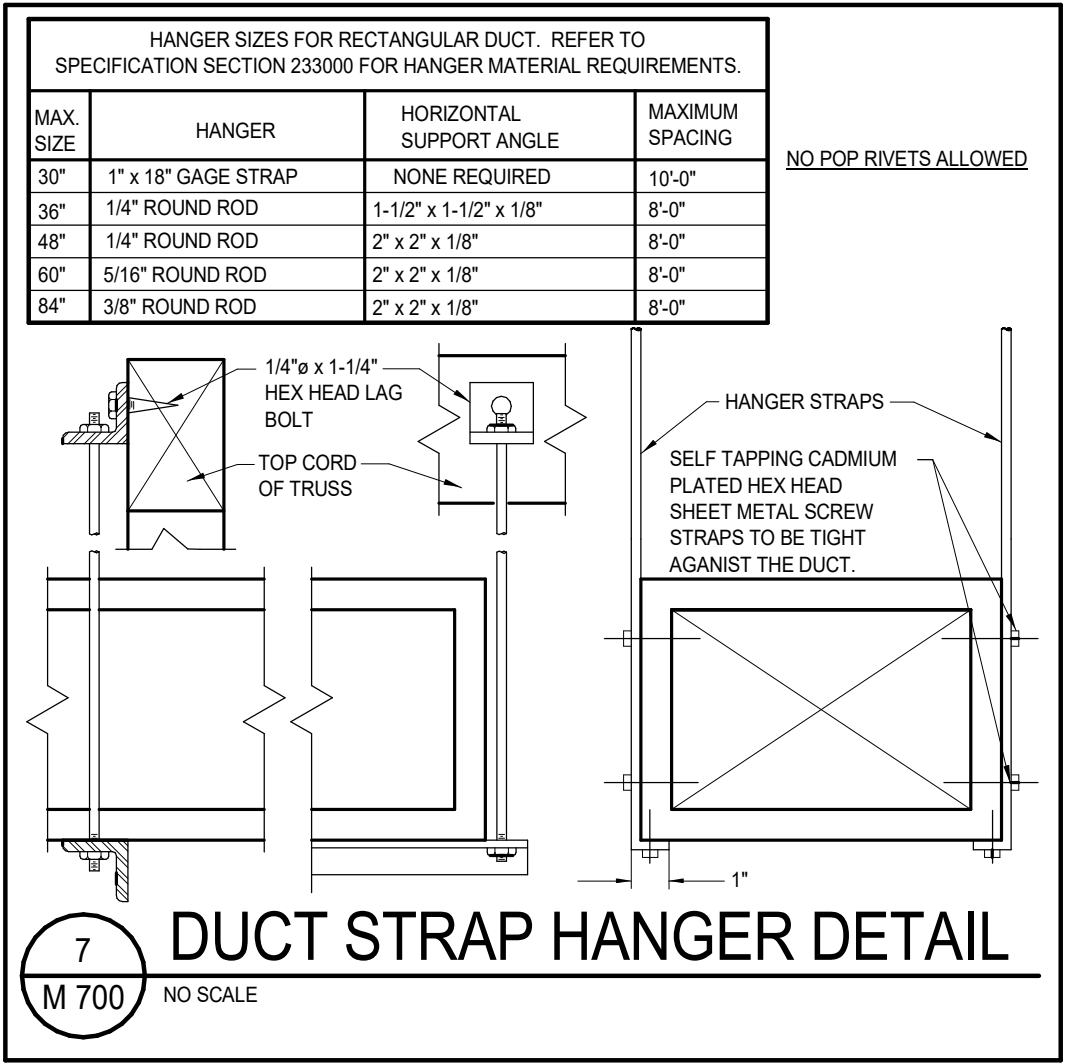
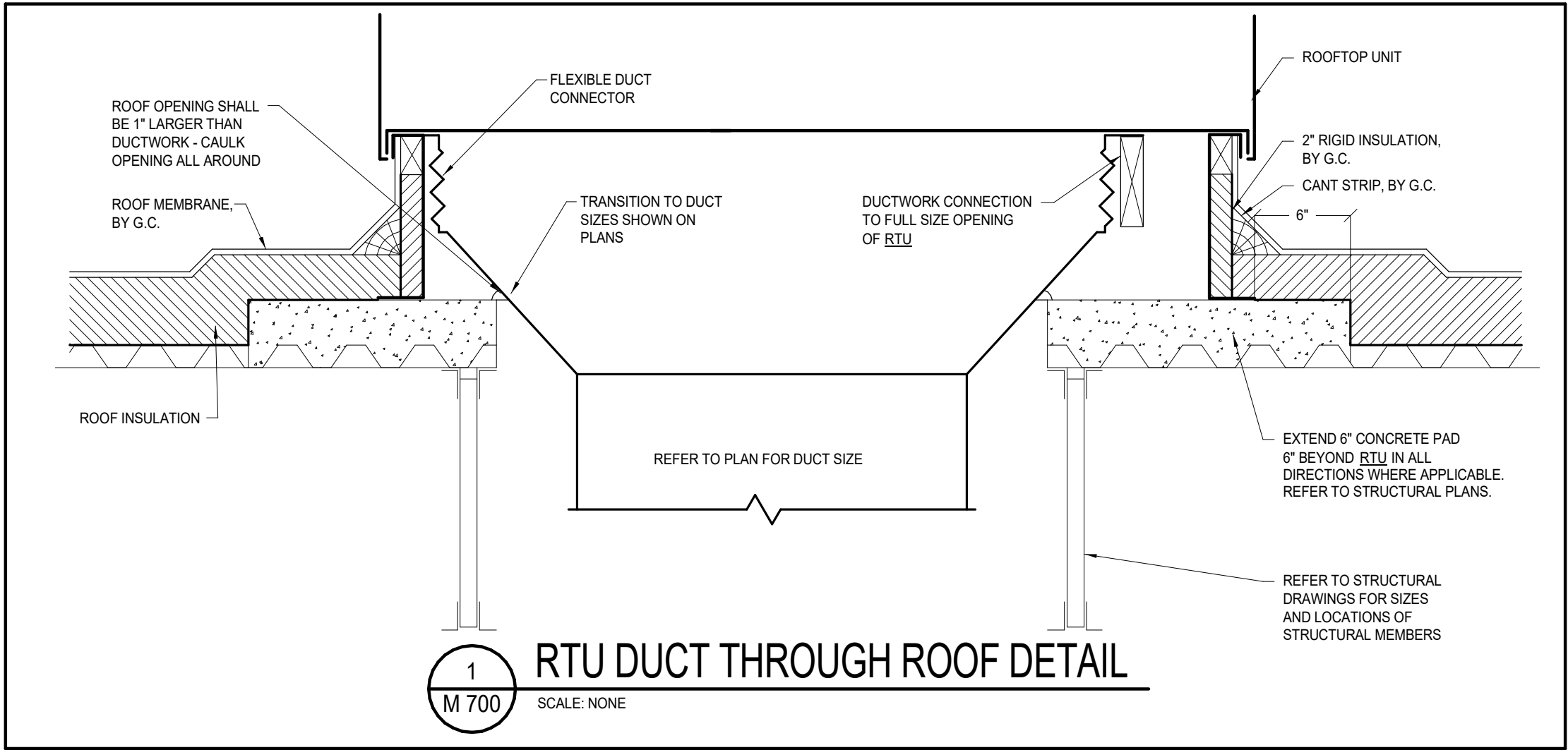
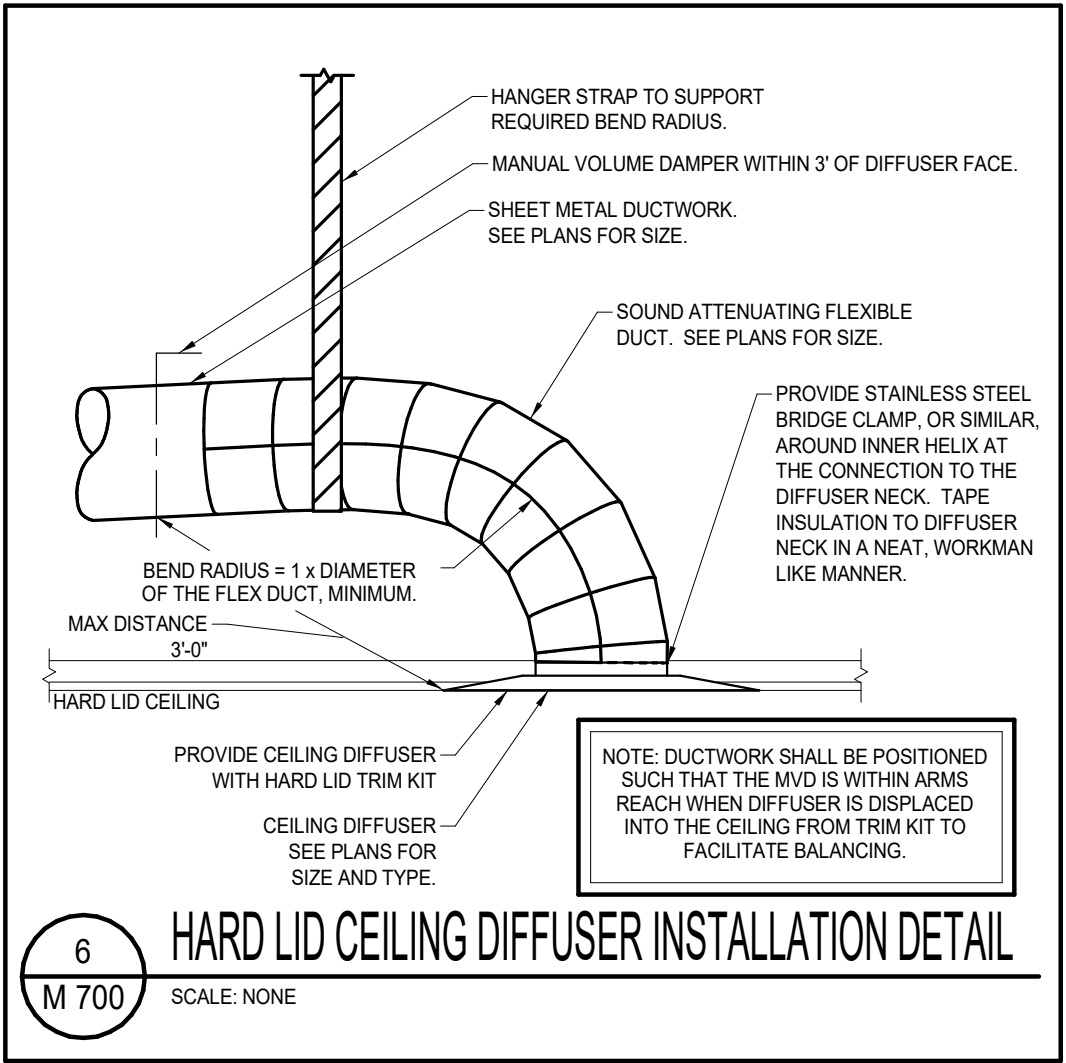
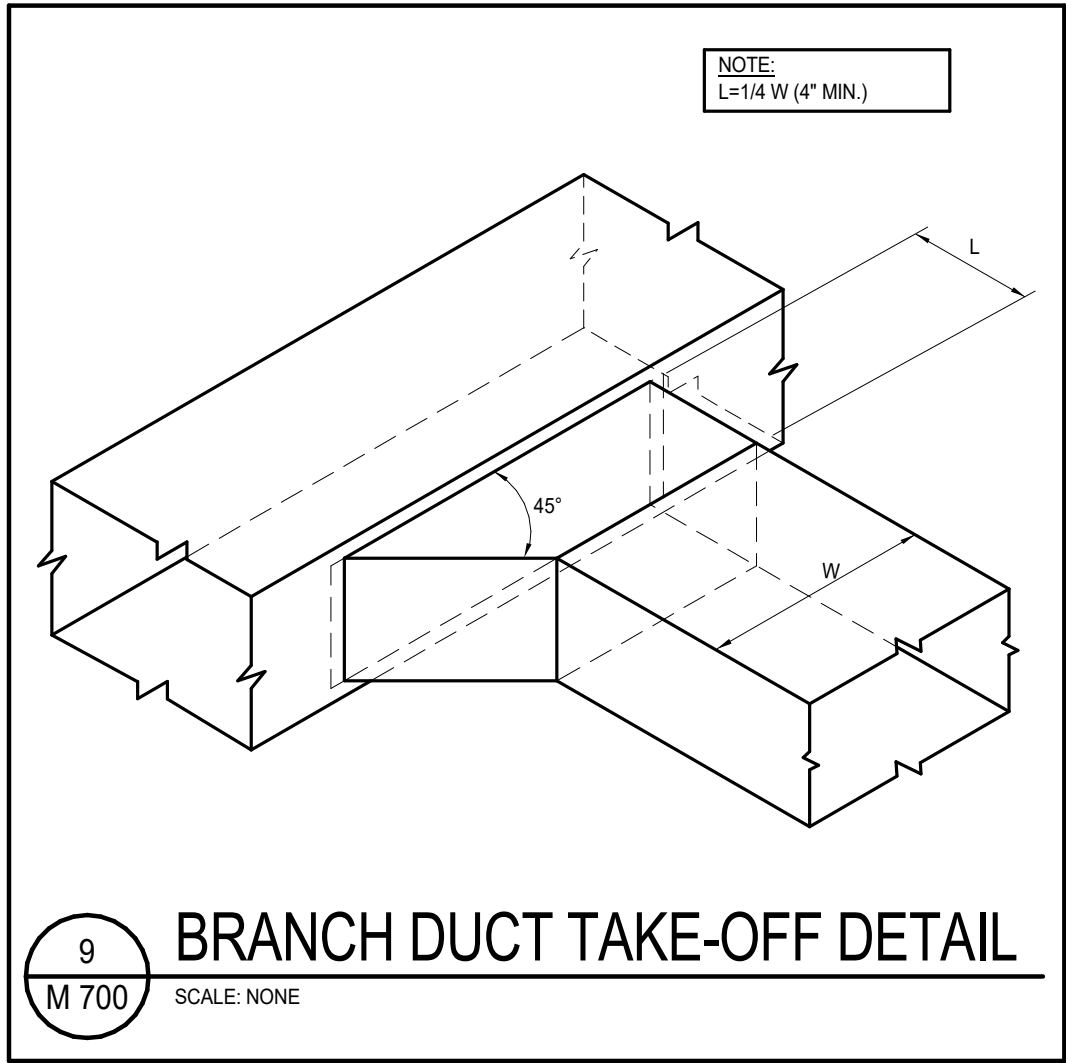
AIR SEPARATOR SCHEDULE											
PLAN CODE	MANUFACTURER & MODEL NO.	SYSTEM	GPM	WPD (FT)	STRAINER	PIPE CONN. SIZE	DIMENSIONS (NOTE: 2)			WEIGHT (LBS)	REMARKS
							HEIGHT	DIA.	LENGTH		
AS-1	SPIROTHERM VDX 200	HEATING WATER	30.0	1.0	YES	2.0"	31"	4"	11"	150	NOTE: 1,2,3
NOTES: 1. SYSTEM UTILIZES 0% PROPYLENE GLYCOL. 2. LENGTH DIMENSION IS FLANGE TO FLANGE CONNECTION DISTANCE. 3. PROVIDE WITH FACTORY INSULATION.											

CONDENSING WATER BOILER SCHEDULE																			
PLAN CODE	MANUFACTURER & MODEL NO.	SERVICE	MBH HEATING		WATER VOLUME (GAL)	ASME (PSIG) RATING	RELIEF VALVE SETTING PSIG	V/ø/HZ	MOP	EWT (°F)	LWT (°F)	WATER FLOW (GPM)	% P.G.	WPD (FT)	SIZE (IN)			OPER WT. (LBS)	REMARKS
			INPUT S.L.	OUTPUT (5,000')											L	W	H		
B-1	TRIANGLE TUBE 399	HEATING WATER	399.0	304.1	7.4	80.0	27.0	120/1/60	15.0	110.0	150.0	15.2	0	2.0	18"	20"	37"	200	NOTE: 1,2,3,4,5
B-2	TRIANGLE TUBE 399	HEATING WATER	399.0	304.1	7.4	80.0	27.0	120/1/60	15.0	110.0	150.0	15.2	0	2.0	18"	20"	37"	200	NOTE: 1,2,3,4,5
B-3	TRIANGLE TUBE 399	HEATING WATER	399.0	304.1	7.4	80.0	27.0	120/1/60	15.0	110.0	150.0	15.2	0	2.0	18"	20"	37"	200	NOTE: 1,2,3,4,5
NOTES: 1. PROVIDE UNIT WITH 30 PSI RELIEF VALVE. 2. FM GAS TRAIN RATED FOR 5" TO 13" GAS INLET PRESSURE. 3. PROVIDE WITH MANUFACTURER SUPPLIED CONDENSATE NEUTRALIZATION KIT. 4. PROVIDE UNIT WITH MANUFACTURER APPROVED WALL MOUNTING KIT. 5. PROVIDE EXTERNAL LOW WATER CUTOFF. MCDONNELL & MILLER RB-122E.																			

PLAN CODE	MANUFACTURER & MODEL NO.	TYPE	SERVICE	IMP. DIA. (IN)	GPM	TDH (FT)	EFF. EEI	ELECTRICAL			WT. (LBS)	REMARKS
								HP	VOLT/ ø/HZ	RPM		
CP-1	GRUNDFOS UP 26-99F	WET ROTOR	B-1 CIRC	-	15.0	20.0	-	1/6	120/1/60	3,500	25	NOTE: 1
CP-2	GRUNDFOS UP 26-99F	WET ROTOR	B-2 CIRC	-	15.0	20.0	-	1/6	120/1/60	3,500	25	NOTE: 1
CP-3	GRUNDFOS UP 26-99F	WET ROTOR	B-2 CIRC	-	15.0	20.0	-	1/6	120/1/60	3,500	25	NOTE: 1
P-1	GRUNDFOS MAGNA3 40-180F	WET ROTOR	HEATING WATER	-	30.0	50.0	-	607 W	208/1/60	3,500	75	NOTE: 1,2,3
P-2	GRUNDFOS MAGNA3 40-180F	WET ROTOR	HEATING WATER	-	30.0	50.0	-	607 W	208/1/60	3,500	75	NOTE: 1,2,3
NOTES: 1. SYSTEM UTILIZES 0% PROPYLENE GLYCOL. 2. PROVIDE PUMP WITH INTEGRAL VFD AND CONTROLLER. 3. PROVIDE PUMP WITH INTEGRL CONTROLS TO CONTROL PUMP SPEED AND INCLUDE A BACNET MS/TP INTERFACE CARD.												

PLAN CODE	MANUF. & MODEL NO.	SERVICE	SYSTEM PUMP			TANK SIZE (GAL)	UNIT "ON" PRESSURE (PSI)	UNIT "OFF" PRESSURE (PSI)	SYSTEM ELECTRICAL REQUIREMENTS	TANK P.G. (%)	UNIT SIZE			OPER. WT. (LBS)	REMARKS
			FLOW (GPM)	HEAD (PSI)	MOTOR WATTS						L	W	H		
WF-1	AXIOM MF-200	BOILER MAKE UP WATER	0.7	25.0	50 W	6.6	10.0	25.0	NOTE: 1	0.0	12"	12"	16"	160	NOTE: 2,3,4,5
NOTES: 1. PROVIDE A DEDICATED 120/1/60 20 AMP CIRCUIT WITH A GFI RECEPTACLE LOCATED WITHIN 3 FEET OF AND BEHIND UNIT. 2. TANK SHALL BE POLYETHYLENE OF SIZE AS INDICATED MOUNTED IN A STEEL FRAME. 3. SYSTEM PUMP SHALL BE BRONZE ROTARY GEAR TYPE. 4. PROVIDE FLOAT SWITCH FOR LOW LEVEL PUMP SHUTOFF AND AUDIBLE ALARM. 5. PROVIDE NEMA 4X UNIT CONTROL PANEL.															

PLAN CODE	MANUFACTURER & MODEL NO.	TYPE	SERVICE	SONES
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Owner
City of Greeley

970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037



The Ballard Group, Inc.
Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

City of Greeley
GREELEY FIRE STATION #6

10803 20TH ST, GREELEY COLORADO 80634



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SEH Project
Checked By
Drawn By

150268
TVS
JJG

Project Status
30% DESIGN
75% DESIGN

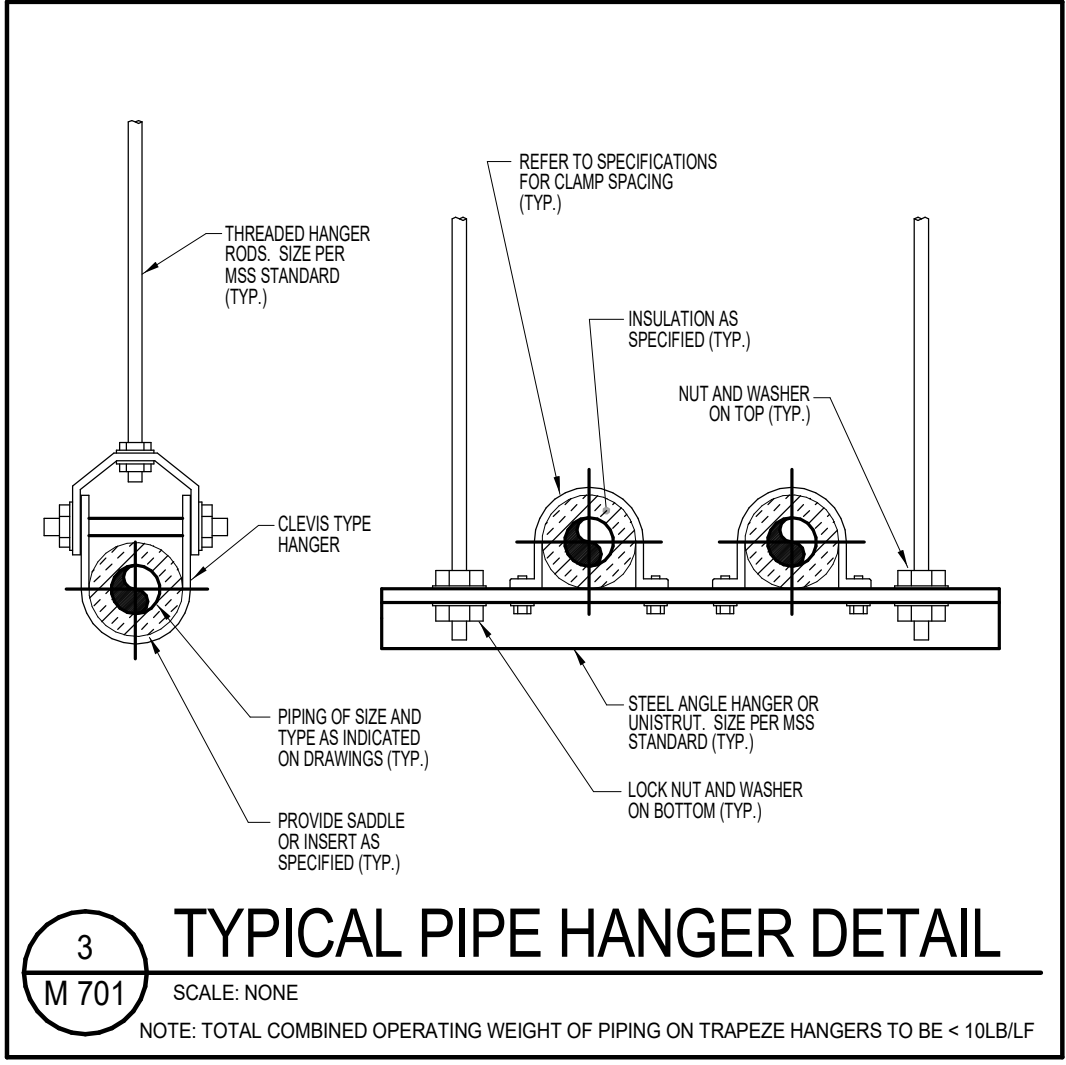
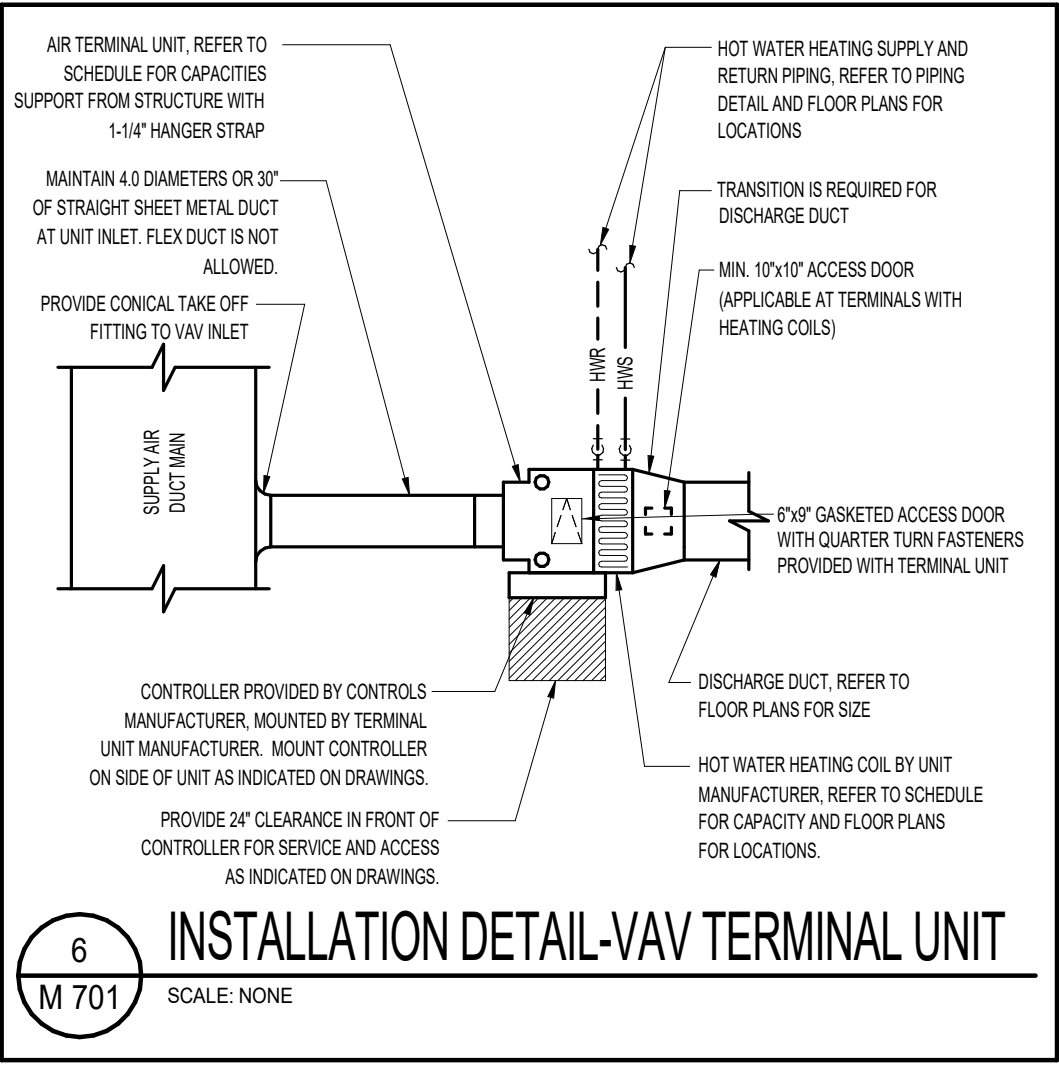
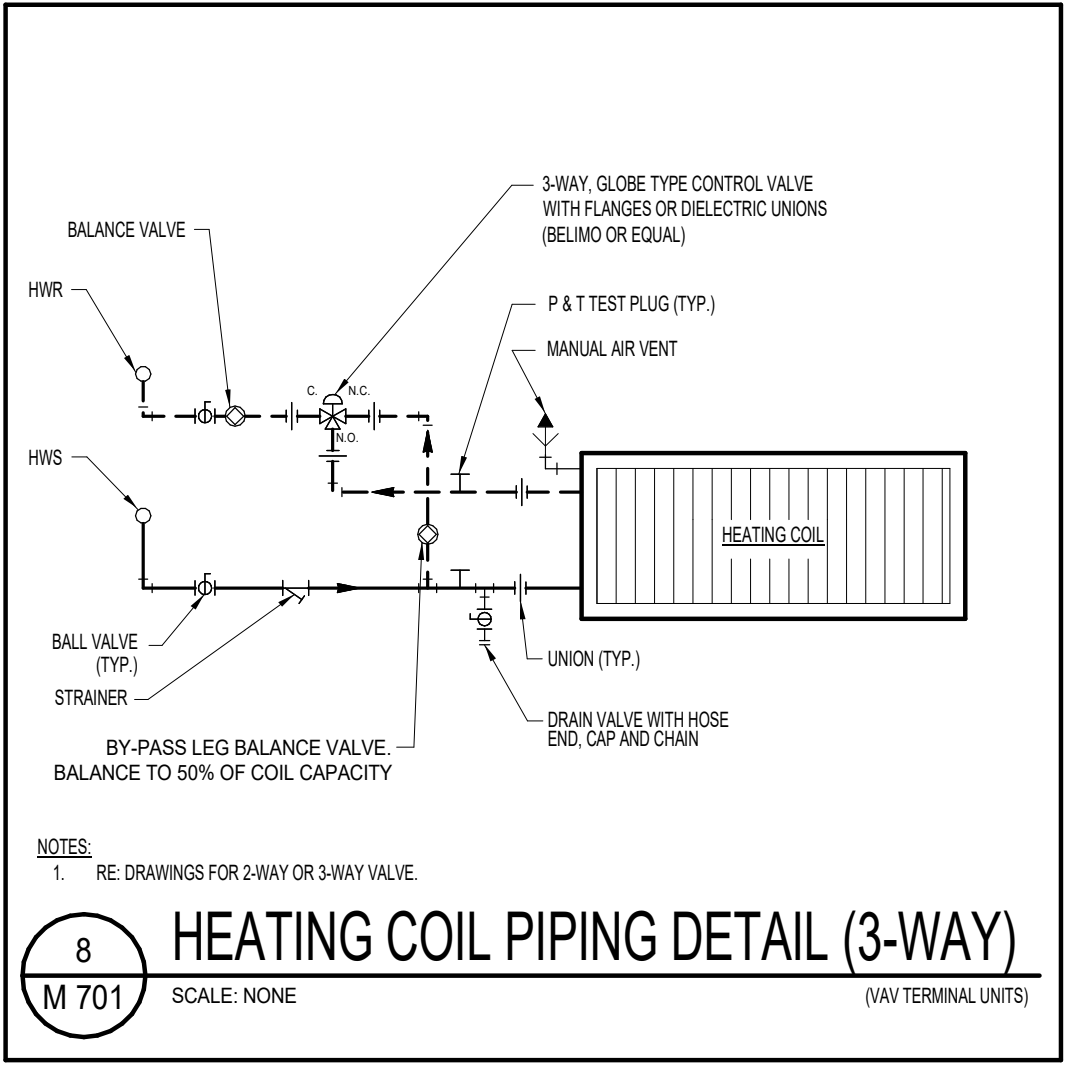
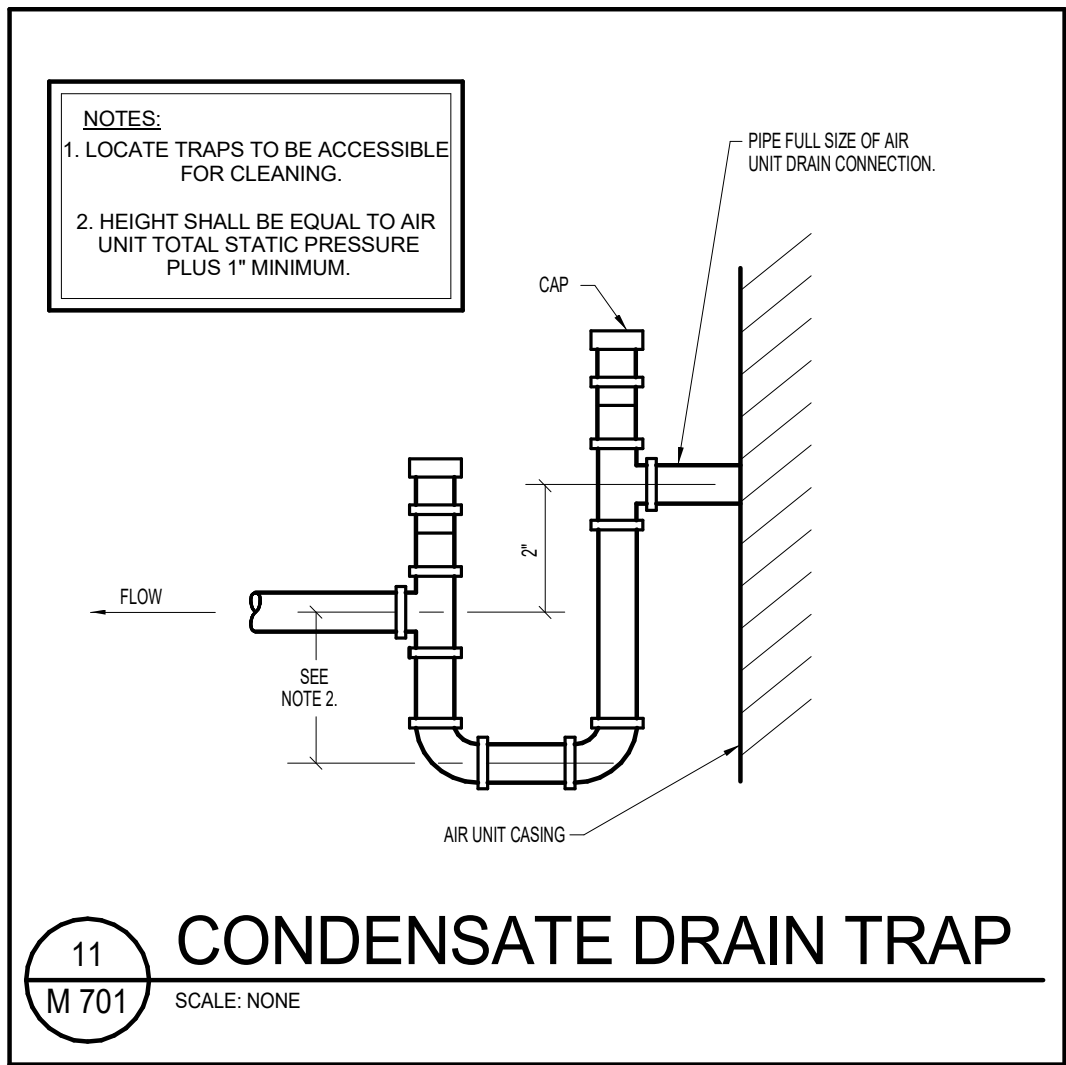
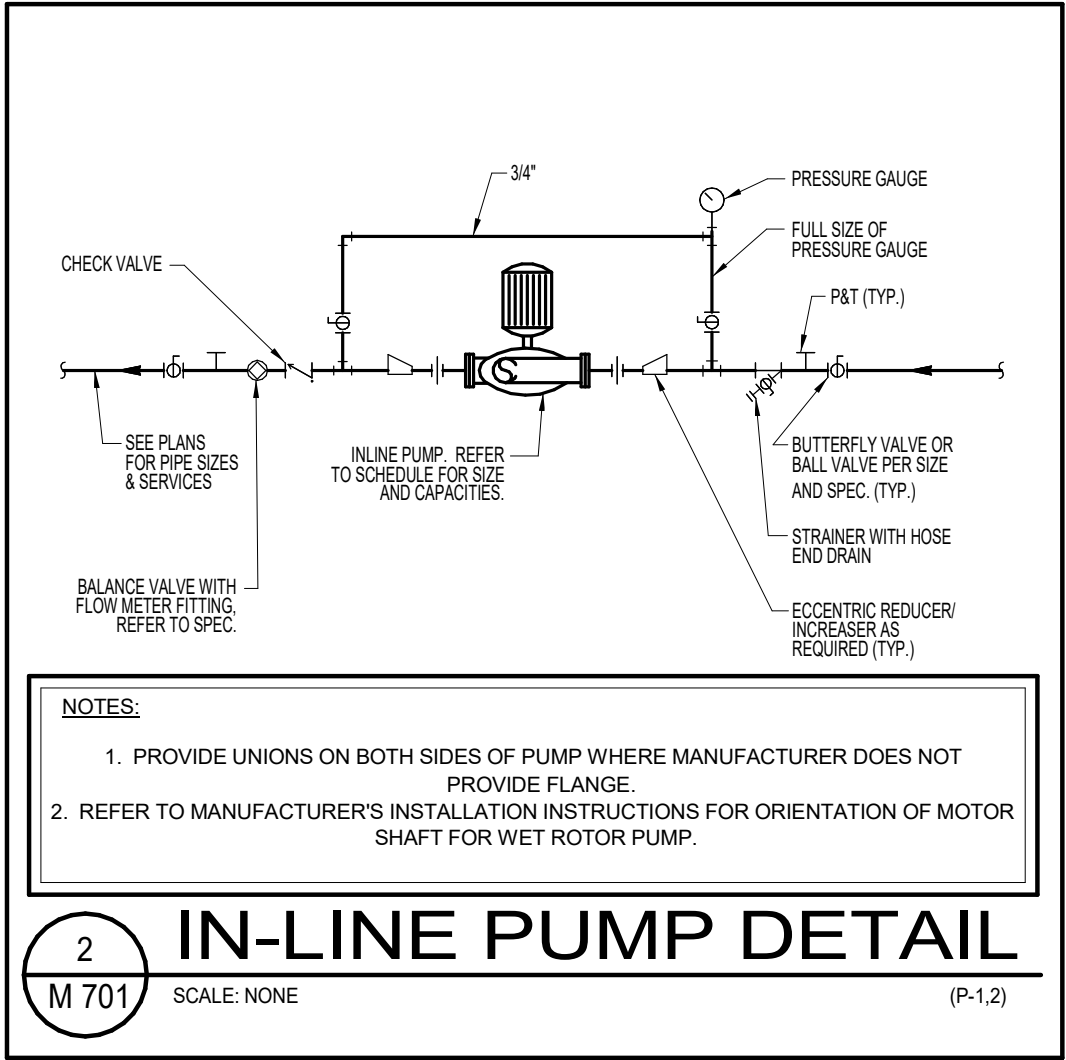
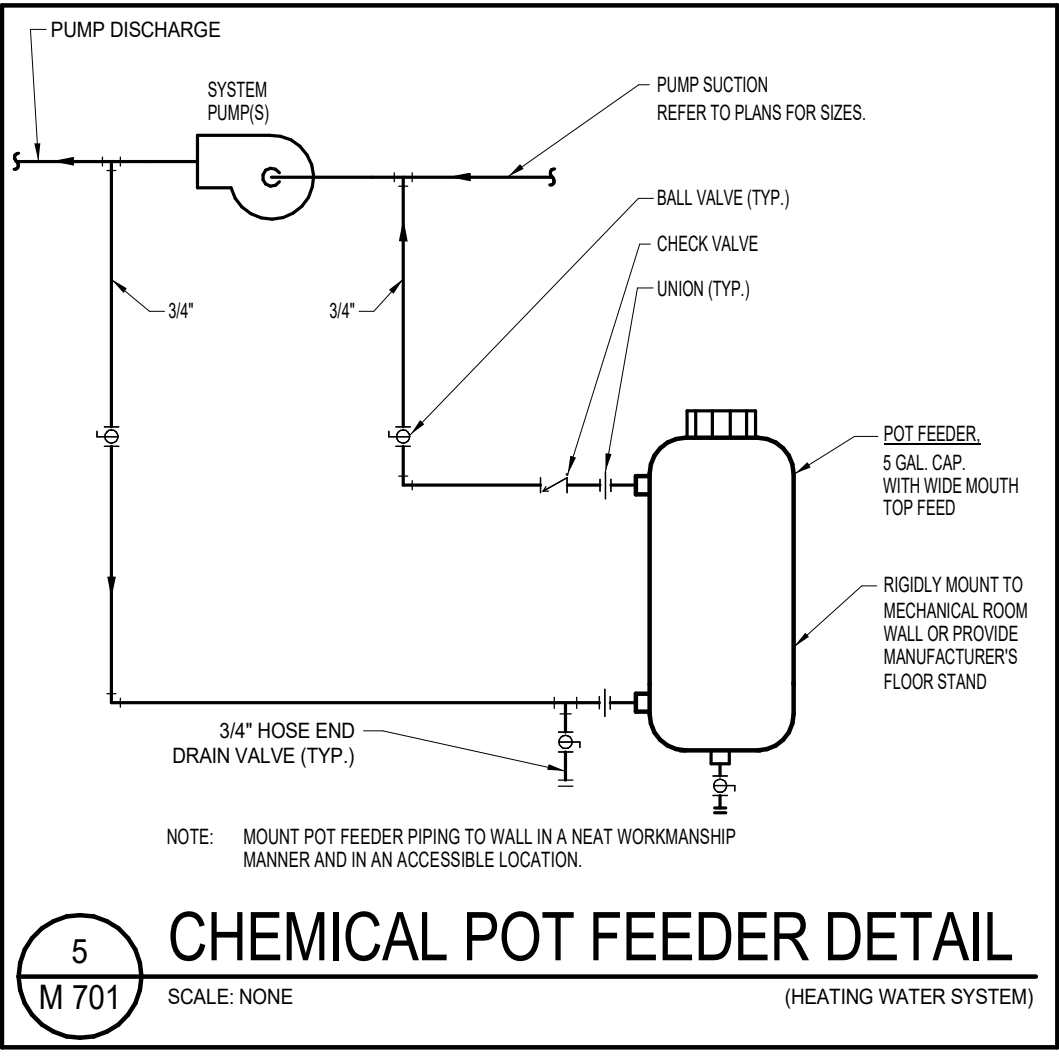
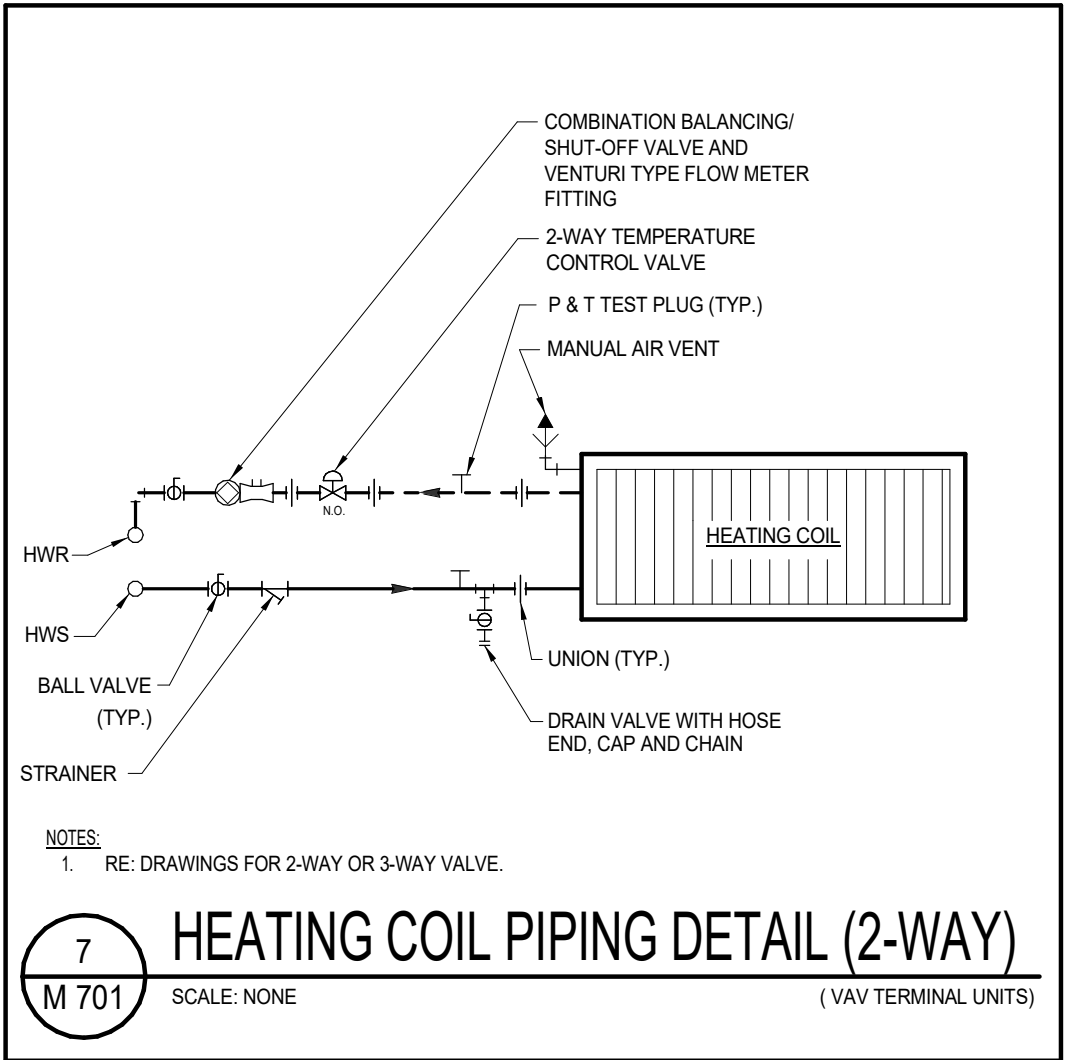
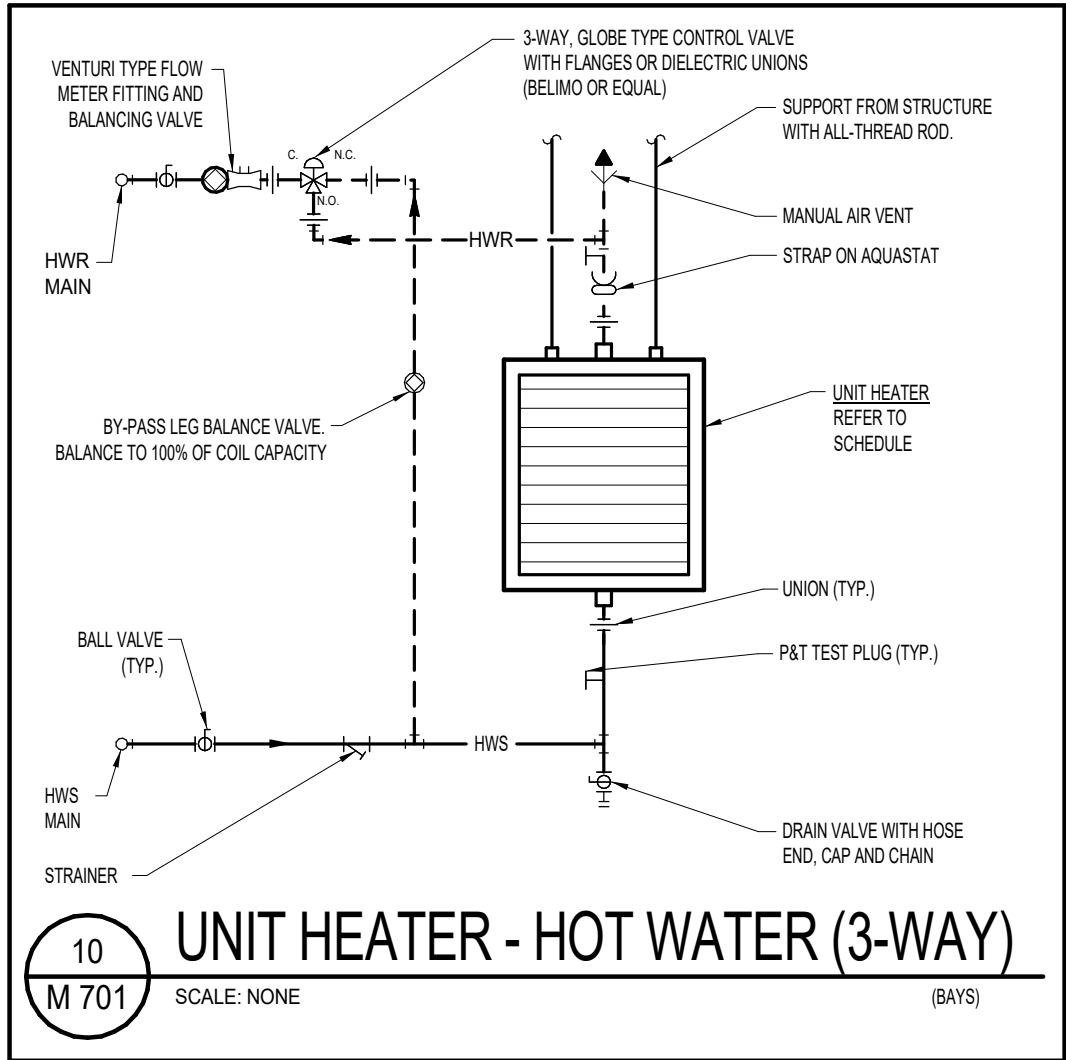
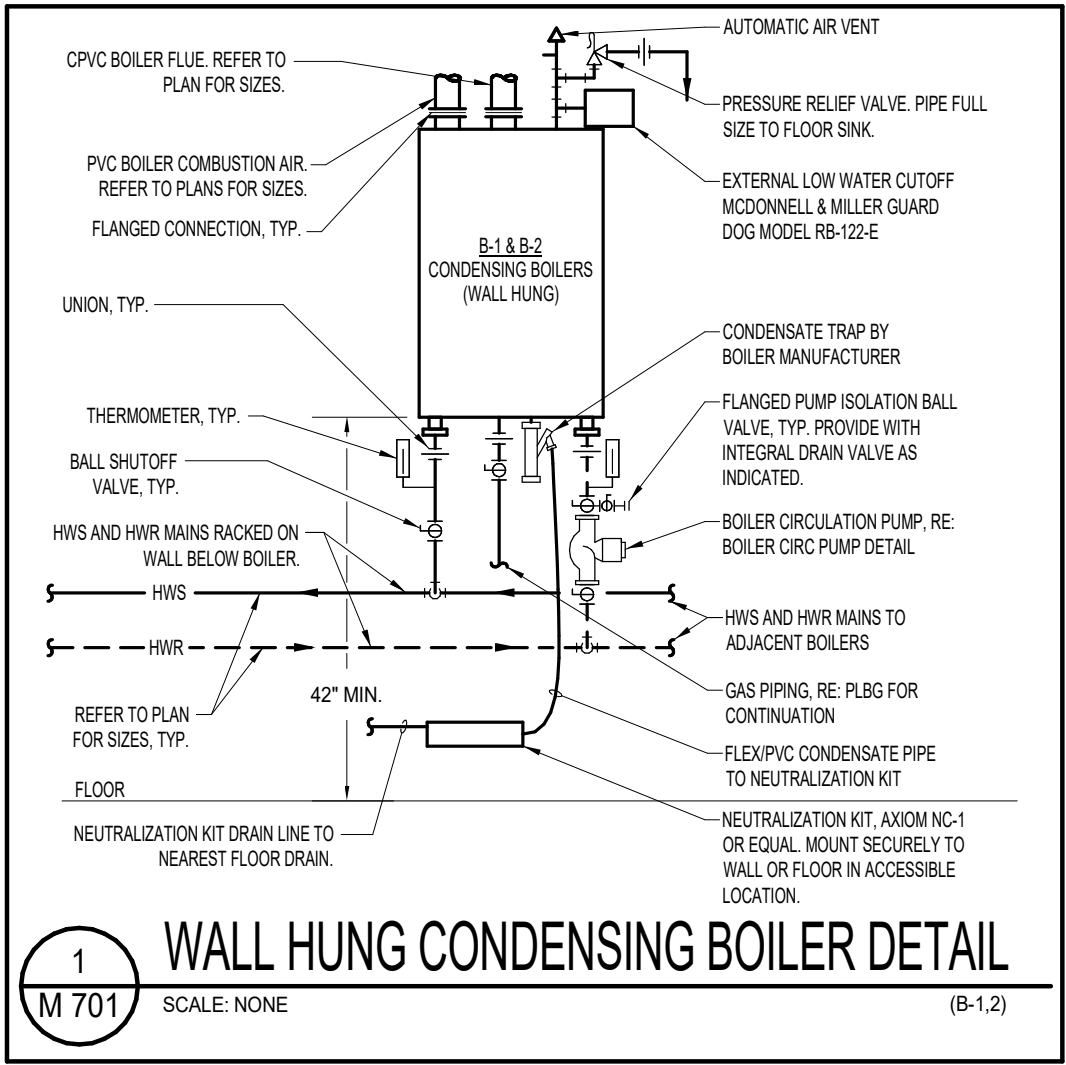
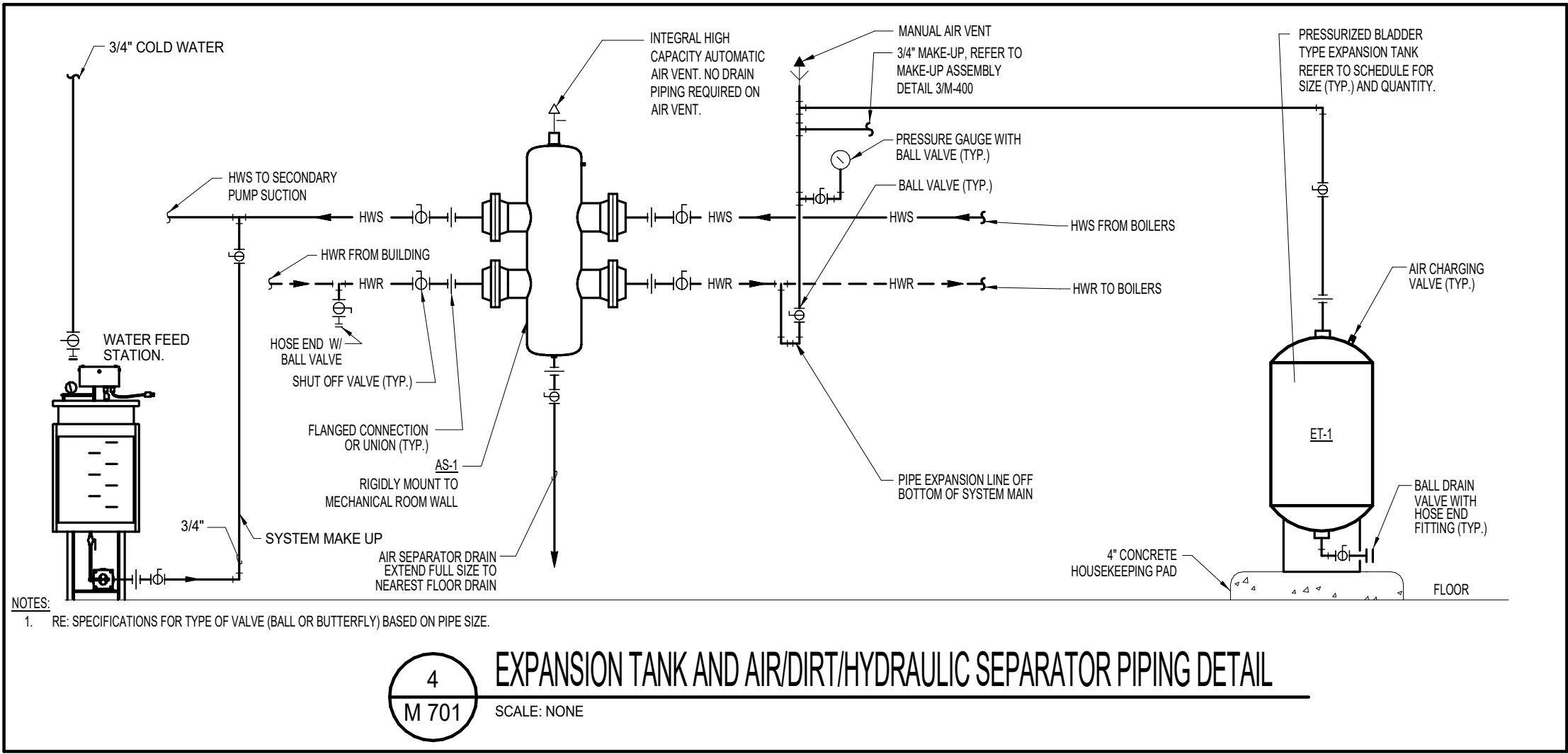
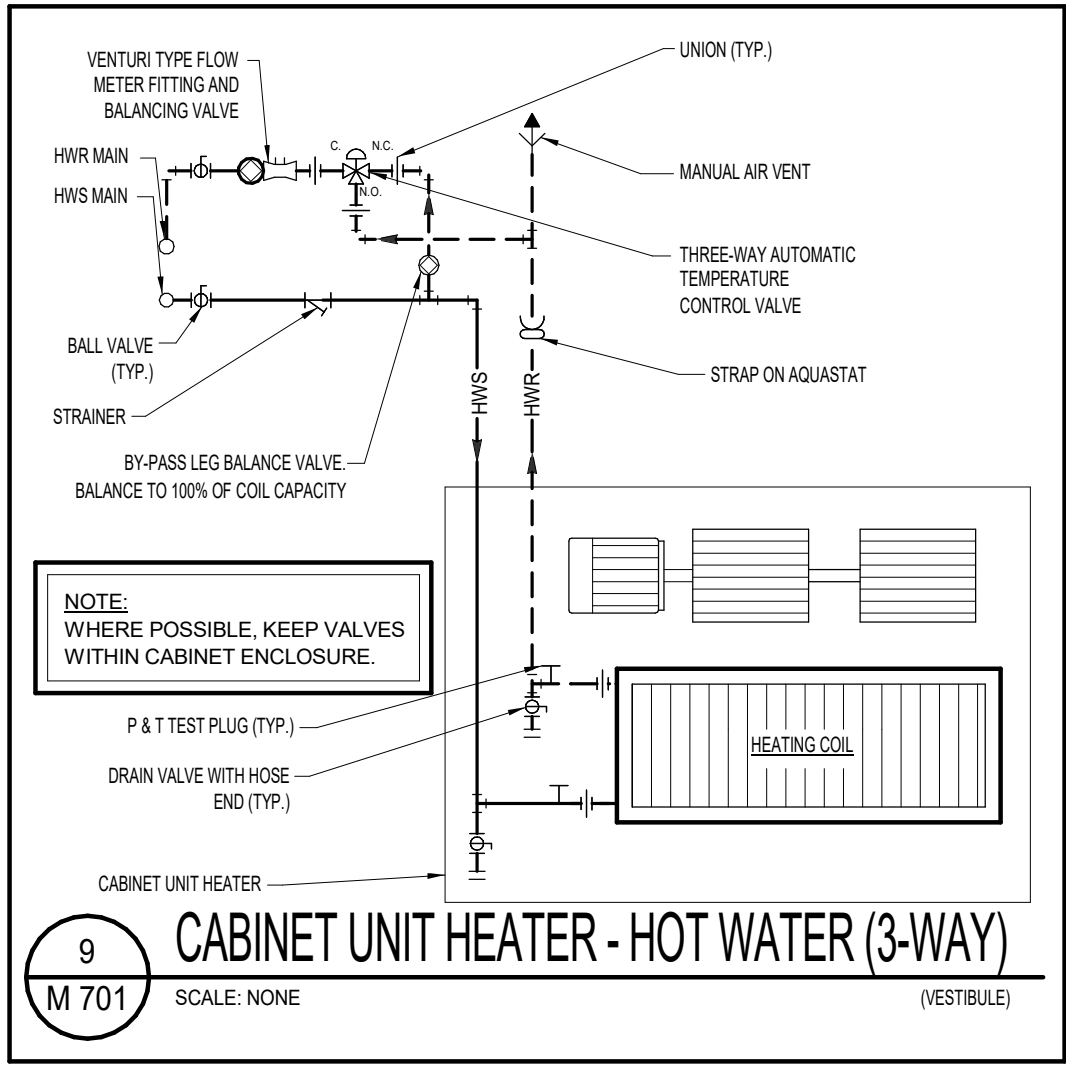
Issue Date
6/26/2019
9/13/2019

Revision Issue

Rev. #	Description	Date
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HVAC DETAILS

M
700



Owner
City of Greeley

970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect
DHM Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc.
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

The Ballard Group, Inc.
Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

City of Greeley
GREELEY FIRE STATION #6
10803 20TH ST, GREELEY COLORADO 80634

City of Greeley
Greeley

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SEH Project
Checked By
Drawn By

150268
TVS
JJG

Project Status
30% DESIGN
75% DESIGN

Issue Date
6/26/2019
9/13/2019

Revision Issue

Rev. #	Description	Date
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HVAC DETAILS

M
701



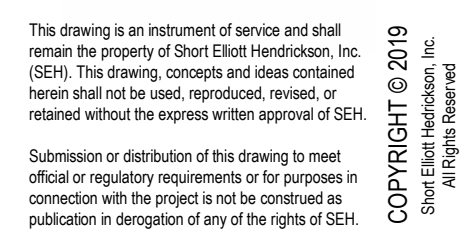
970.350.9777

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

The Ballard Group, Inc.
Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

City of Greeley
GREELEY FIRE STATION #6

10603 20TH ST, GREELEY COLORADO 80634



Project Status	Issue Date
30% DESIGN	6/26/2019
75% DESIGN	9/13/2019

Revision Issue		
Rev. #	Description	Date

HVAC CONTROL DIAGRAMS

M
800



SCALE: NONE



SCALE: NONE

RH-1, RH-2, RH-3, RH-4



SCALE: NONE



SCALE: NONE



SCALE: NONE

CF-1



SCALE: NONE

GENERAL LEGEND		
ABBV.	SYMBOL	DESCRIPTION
G.C.		GENERAL CONTRACTOR
M.C.		MECHANICAL CONTRACTOR
E.C.		ELECTRICAL CONTRACTOR
T.C.C.		TEMPERATURE CONTROL CONTRACTOR
F.P.C.		FIRE PROTECTION CONTRACTOR
A.F.F.		ABOVE FINISHED FLOOR
A.F.G.		ABOVE FINISHED GRADE
B.F.F.		BELOW FINISHED FLOOR
B.F.G.		BELOW FINISHED GRADE
N.I.C.		NOT IN CONTRACT
(N)		NEW
		CONTROL WIRING
ADIAP		ACCESS DOOR/ACCESS PANEL
		DIRECTION OF FLOW IN PIPE
		PITCH PIPE DOWN IN DIRECTION OF ARROW
		PIPE CAP
		PRESSURE GAUGE WITH COCK
		FLEXIBLE PIPE CONNECTION
		STRAINER WITH BLOWDOWN VALVE
		STRAINER
CV		CHECK VALVE
BV		BALANCING VALVE
GV		GATE VALVE
		BALL VALVE
		GLOBE VALVE
		PRESSURE RELIEF VALVE
PIT		PRESSURE/TEMPERATURE TEST PLUG
TCV		PIPE ELBOW DOWN
		PIPE ELBOW UP
		TEE OFF BOTTOM OF PIPE
		TEE OFF TOP OF PIPE
		THERMOMETER
		X = SECTION/DETAIL NUMBER XXX = SHEET NUMBER WHERE SECTION/DETAIL IS DRAWN

PLUMBING LEGEND		
ABBV.	SYMBOL	DESCRIPTION
EWC		ELECTRIC WATER COOLER
GDU		GARBAGE DISPOSAL UNIT
MSB		MOP SERVICE BASIN
S		SINK
SH		SHOWER
TP/TS		TRAP PRIMER/TRAP SEAL
U		URINAL
WC		WATER CLOSET
WHA		WATER HAMMER ARRESTER
PP		PLUMBING CIRC. PUMP
PET		PLUMBING EXPANSION TANK
RPBP		REDUCED PRESSURE BACKFLOW PREVENTER
DCBP		DOUBLE CHECK BACKFLOW PREVENTER
CW		DOMESTIC COLD WATER
HW		DOMESTIC HOT WATER
HWC		DOMESTIC HOT WATER CIRCULATING
G		NATURAL GAS
F		FIRE LINE
FS		FIRE SPRINKLER
W		SANITARY WASTE BELOW FLOOR
W		SANITARY WASTE ABOVE FLOOR
V		SANITARY VENT
RDL		ROOF DRAIN ABOVE FLOOR OR GRADE
ODL		OVERFLOW DRAIN LEADER ABOVE FLOOR OR GRADE
SD		STORM DRAIN BELOW FLOOR OR GRADE
D		DRAIN PIPING
LS		LAWN SPRINKLER
CA		COMPRESSED AIR
FCO		FLOOR CLEANOUT
GCO		GRADE CLEANOUT
WCO		WALL CLEANOUT
		PRESSURE REDUCING VALVE
		HOSE END DRAIN VALVE
		PLUG VALVE
		GAS COCK
		THERMOSTATIC MIXING VALVE
TMV		SHOCK ABSORBER (ELEVATION)
		SHOCK ABSORBER (PLAN)
		PIPE ANCHOR
HBWH		HOSE BIBB/WALL HYDRANT
		FLOW SWITCH
VTR		VENT THRU ROOF
FD		FLOOR DRAIN
FS		FLOOR SINK
RD/OD		ROOF DRAIN/OVERFLOW DRAIN
		SPLASH BLOCK
		SPLASH BLOCK WITH DOWNSPOUT NOZZLE

FIRE PROTECTION GENERAL NOTES

- ALL WORK SHALL BE PER LOCAL BUILDING AND FIRE DISTRICT APPROVAL.
- ALL PIPING SHALL CONFORM TO NFPA 13.
- PROVIDE SHOP DRAWINGS FOR ALL WORK THAT ADHERERS TO ALL LOCAL CODES. BUILDING OWNER INSURANCE CARRIER, AND NFPA REQUIREMENTS.
- THE FIRE PROTECTION PLANS ARE PROVIDED AS A GUIDE TO THE FIRE PROTECTION CONTRACTOR ONLY AND DO NOT SHOW ALL NECESSARY PIPING, FITTING, SPRINKLERS, DRAINS, ETC. THE INTENT OF THE FIRE PROTECTION DRAWINGS IS TO SHOW POSSIBLE MAIN PIPE ROUTES AND GENERAL EQUIPMENT LAYOUT.
- IT SHALL BE THE FIRE PROTECTION CONTRACTOR'S RESPONSIBILITY TO CALCULATE, DESIGN AND INSTALL THE FIRE PROTECTION SYSTEM(S) CALLED FOR, INCLUDING ALL PIPING, FITTINGS, EQUIPMENT, DRAINS, SPRINKLERS, ETC. AS MAYBE REQUIRED FOR A COMPLETE, APPROVED AND OPERATIONAL FIRE PROTECTION SYSTEM IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS.
- THE ENTIRE BUILDING, WITH SPECIFIC EXCEPTIONS NOTED, SHALL BE PROVIDED AUTOMATIC SPRINKLER SYSTEM COVERAGE.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT CEILING MOUNTING HEIGHTS AND LOCATION OF CEILING MOUNTED EQUIPMENT.
- FURNISH SHOP DRAWINGS OF THE SYSTEM ALONG WITH HYDRAULIC CALCULATIONS AND PRODUCT DATA OF ALL PIPING, EQUIPMENT AND SPRINKLERS PROPOSED PRIOR TO INSTALLATION.
- COORDINATE LOCATIONS OF ALL SPRINKLER WITH CEILING SYSTEMS AND ALL CEILING MOUNTED EQUIPMENT.
- REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL FIRE RATED WALLS, SEAL ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS IN ACCORDANCE WITH THE BUILDING CODE.
- ALL DRAIN TERMINATIONS SHALL BE EXTENDED TO DISCHARGE TO THE EXTERIOR. LOCATION AS APPROVED BY ATCHITECT/ENGINEER. DRAIN PIPING SHALL BE RUN CONCEALED ABOVE CEILING OR WITHIN APPROVED RECESSES OR CHASES WITHIN BUILDING. DISARGE DRAIN LINES A MAXIMUM OF 1'-6" ABOVE FINISHED GRADE. PROVIDE CONCRETE SPLASH BLOCKS AT DRAIN TERMINATIONS WHERE OUTLETS DISCHARGE INTO LANDSCAPED AREAS.
- OFFSET PIPING AS MAYBE REQUIRED TO CLEAR EXISTING STRUCTURAL ELEMENTS, MECHANICAL AND ELECTRICAL EQUIPMENT. INCLUDE OFFSETS IN HYDRAULIC CALCULATION DATA.
- FINAL LOCATIONS OF ALL FIRE SPRINKLER SHALL BE APPROVED BY THE ARCHITECT.
- SPRINKLER INSTALLED IN FINISHED CEILING SYSTEMS SHALL BE CENTERED WITHIN CEILING TILES OR AT QUARTER POINTS ALONG THE LONGTUDINAL AXIS OF 2'x4' CEILING TILES.

ALTERNATE
PLUMBING P1: CHANGE GWH-1 & 2 TO ONLY (1) GWH., WATER
HEATER SHALL BE A.O. SMITH BTH300.

PLUMBING P2: AIR COMPRESSOR WILL BE FURNISHED BY OWNER
WITH CONTRACTOR TO INSTALL.

PLUMBING GENERAL NOTES

- FIELD VERIFY EXACT LOCATION OF ALL CONNECTION PRIOR TO CONSTRUCTION.
- ROUGH-IN AND FINAL CONNECT ALL FIXTURES, EQUIPMENT, ETC.
- CONTRACTOR SHALL INSPECT SITE TO THOROUGHLY FAMILIARIZE HIMSELF WITH THE AREA OF WORK. ANY DISCREPANCES BETWEEN THESE DOCUMENTS AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO BID PRICING. NO EXTRAS WILL BE ALLOWED DUE TO LACK OF KNOWLEDGE OF EXISTING CONDITIONS.
- ALL WORK SHALL BE PER LOCAL BUILDING AND HEALTH DEPARTMENT REQUIREMENTS.
- PROVIDE BALL VALVES ON ALL BRANCH LINES FOR BUILDING ISOLATION WHETHER SHOWN OR NOT.
- REFERENCE HVAC DRAWINGS FOR EXACT LOCATION OF ALL HVAC EQUIPMENT REQUIRING PLUMBING CONNECTIONS. COORDINATE WITH HVAC CONTRACTOR EXACT PLUMBING CONNECTION REQUIREMENTS PRIOR TO COMMENCING WORK.
- ALL STORM DRAINAGE PIPING WITHIN THE BOUNDARIES OF THE BUILDING SHALL BE SLOPED AT 1/8" PER FOOT UNLESS OTHERWISE NOTED.
- ALL VENTS THROUGH THE ROOF (VTR) SHALL BE POSITIONED A MINIMUM OF 15'-0" FROM ANY OUTSIDE AIR INTAKE.
- REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL FIRE RATED WALLS. ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE SEALED IN ACCORDANCE WITH THE BUILDING CODE.
- OFFSET ALL PIPING AS REQUIRED TO AVOID STRUCTURAL MEMBERS, CANTS, FLASHING, MECHANICAL, OR ELECTRICAL EQUIPMENT.
- ALL GAS PIPING, VALVES, PRV, ETC. SHALL MEET THE REQUIREMENTS OF THE INTERNATIONAL FUEL GAS CODE.
- GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL WITH THREADED FITTINGS 2" AND BELOW, AND WELDED FITTINGS 2-1/2" AND ABOVE.
- INSTALL ALL VALVES ABOVE ACCESSIBLE CEILINGS. PROVIDE ACCESS DOORS FOR ALL VALVES ABOVE GYPSUM CEILINGS. PROVIDE 12"x12" DOORS WHERE VALVES ARE ATTAINABLE WITHIN HAND REACH OR 24"x24" DOORS FOR BODY ACCESS. ALL FINAL ACCESS DOOR LOCATIONS SHALL BE APPROVED BY THE ARCHITECT DURING COORDINATED SHOP DRAWING REVIEW.
- VERIFY AND COORDINATE EXACT SIZE, LOCATION, AND ELEVATION OF KITCHEN PLUMBING ROUGH-INS WITH KITCHEN EQUIPMENT CONTRACTOR PRIOR TO CONSTRUCTION.
- PROVIDE ACCESSIBLE SHUT-OFF VALVES FOR ALL KITCHEN EQUIPMENT REQUIRING WATER SERVICE.
- ALL EXPOSED PIPING IN THE KITCHEN AREA TO BE A CLEANABLE SURFACE PER LOCAL HEALTH DEPARTMENT.
- PLUMBING CONTRACTORS SHALL PROVIDE ALL INDIRECT WASTE PIPING AND MAKE FINAL CONNECTIONS TO SINKS, KITCHEN EQUIPMENT, ETC. VERIFY SIZES AND LOCATIONS WITH KITCHEN EQUIPMENT CONTRACTOR'S SHOP DRAWINGS.
- COMPLY WITH ALL BUILDING AND HEALTH DEPARTMENT REGULATIONS FOR PLUMBING INSTALLATION. VERIFY ALL REQUIREMENTS PRIOR TO SUBMITTING BID OR COMMENCING WORK.
- PROVIDE FLEXIBLE CONNECTOR WITH QUICK COUPLER CONNECTION TO ALL MOVEABLE GAS APPLIANCES.
- FLUSH MOUNT ALL FLOOR SINKS IN KITCHEN AREA FOR FLOOR DRAINAGE USE.

SHEET INDEX			
SHEET NUMBER	PLUMBING & FIRE PROTECTION SHEET TITLE	SHEET SCALE	SHEET ISSUED
P 000	PLUMBING COVER SHEET - LEGEND, GENERAL NOTES AND SHEET INDEX		
P 111	FIRST FLOOR PLUMBING PLAN		
P 112	SECOND FLOOR PLUMBING PLAN		
P 113	Roof Plumbing Plan		
P 300	ENLARGED SCALE PLUMBING PLAN		
P 600	PLUMBING SCHEDULES		
P 700	PLUMBING DETAILS		
P 800	PLUMBING ISOMETRICS		

NOT FOR
CONSTRUCTION

Owner
City of Greeley

970.350.9777

Architect/ Civil Engineer/ Structural

Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer

The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer

CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037



The Ballard Group, Inc.
Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

City of Greeley
GREELEY FIRE STATION #6
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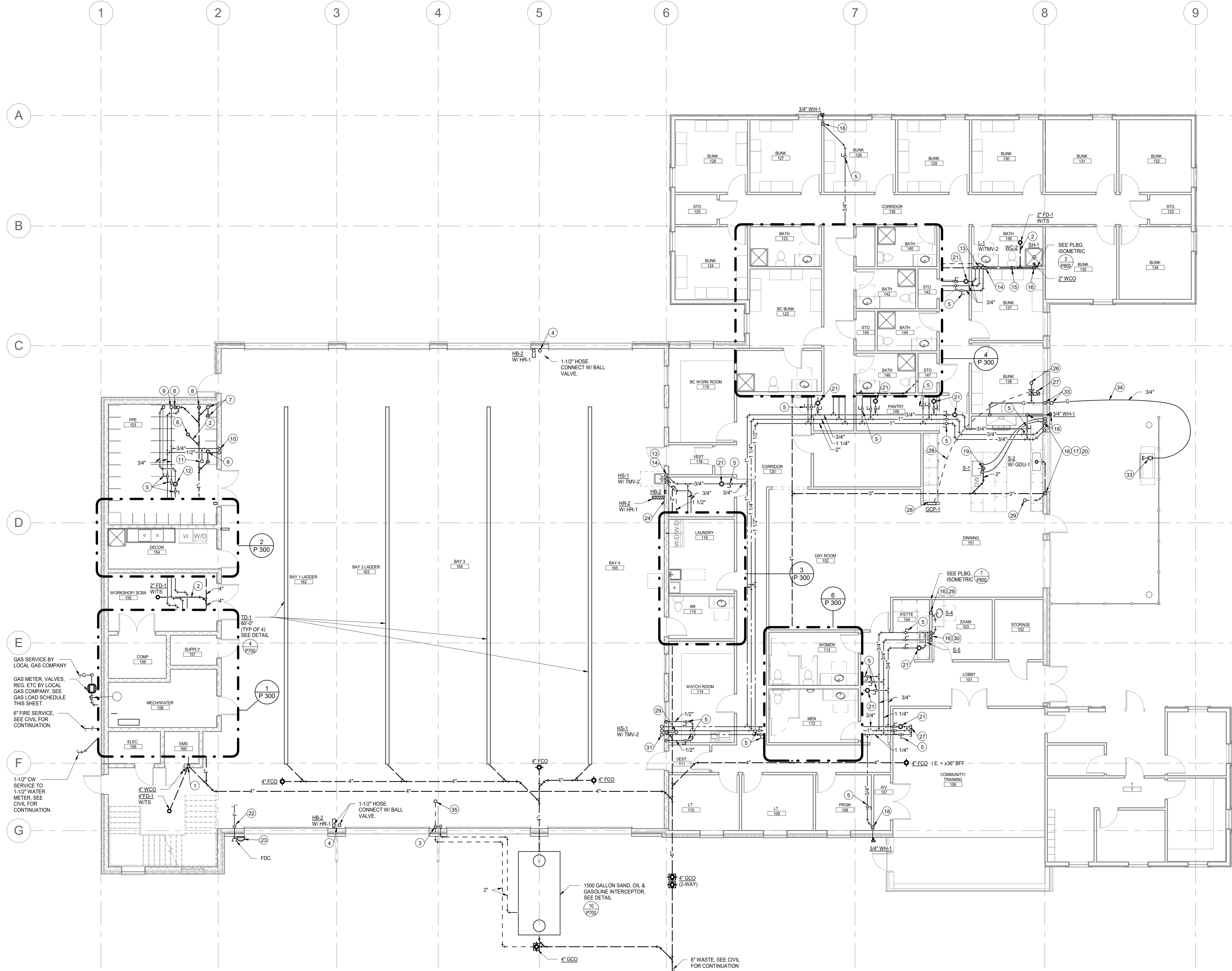
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PLUMBING COVER SHEET -
LEGEND, GENERAL NOTES AND
SHEET INDEX

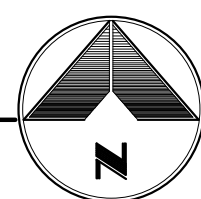
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FIRST FLOOR PLUMBING PLAN

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



PLUMBING KEYNOTES:

- 4" WASTE DOWN, 2" VENT RISE FOR FD.
- COMBINATION WASTE & VENT SYSTEM.
- (2) 2" VENT RISE ON WALL & CONNECT AT 12" ABOVE FINISHED GRADE, 2" VENT RISE.
- 1-1/2" CW & 3/4" HW DOWN FROM ABOVE, 1-1/2" CW TO HOSE CONNECTION W/ BALL VALVE, 3/4" HW & 3/4" CW TO HB-2, 3/4" HOSE TO HR-1.
- BALL VALVE(S) (FULL SIZE) W/ SERVICE ACCESS.
- 2" WASTE RISE.
- 4" WASTE & 2" VENT RISE.
- 4" WASTE RISE.
- 3/4" CW, 3/4" HW & 3/4" HWC RISE.
- 1/2" HW & 1/2" CW RISE.
- 1/2" CW RISE.
- 1/2" BALANCING VALVE W/ SERVICE ACCESS, BALANCE TO 1.0 GPM.
- 3/4" HW, 3/4" CW & 3/4" HWC DOWN IN WALL & OFFSET TO FIXTURES.
- 2" WASTE DOWN, 1-1/2" VENT RISE, 1/2" HW & 1/2" CW TO LAV/TMV/HS.
- 4" WASTE DOWN, 2" VENT RISE, 1/2" CW TO WC.
- 2" WASTE DOWN, 1-1/2" VENT RISE, 1/2" HW & 1/2" CW TO SH/SINK.
- PIPING TO OFFSET ON WARM SIDE OF INSULATION & IN CASEWORK.
- 3/4" CW DOWN TO WH.
- 2" WASTE DOWN, 1-1/2" VENT RISE TO AIR ADMITTANCE VALVE BELOW COUNTER, 1/2" HW & 1/2" CW UP FROM BELOW TO SINK.
- 3/4" HW & 3/4" CW DOWN IN WALL, 1/2" HW & 1/2" CW TO SINK, 1/2" HW & 1/2" CW DOWN & OFFSET BELOW FLOOR.
- 1/2" BALANCING VALVE W/ SERVICE ACCESS, BALANCE TO 0.5 GPM.
- 4" FIRE LINE DOWN ON WALL TO FDC.
- AUDIBLE/VISUAL FIRE ALARM AT 10' MIN ABOVE FINISHED GRADE.
- 3/4" HW & 3/4" CW TO HB-2, 3/4" HOSE TO HR-1.
- CAP 1" HW & 1" CW TO FUTURE TENANT FINISH.
- 1" GAS DOWN FROM ROOF.
- 1" GAS SOLENOID VALVE, INTERLOCK WITH GCP-1.
- GAS CONTROL PANEL (GCP-1) FOR OVEN & BBQ GAS CONTROL. WIRING BY TCC.
- 1-1/2" VENT RISE TO 3" VTR.
- 3/4" HW & 3/4" CW DOWN IN WALL AND OFFSET TO FIXTURE.
- 1-1/2" CW, 1-1/4" HW & 1" HWC DOWN FROM ABOVE & OFFSET ABOVE CEILING.
- 3/4" GAS DOWN IN WALL & OFFSET THRU WALL AT 12" ABOVE GRADE, 3/4" GAS DOWN BELOW GRADE TO BBQ.
- 3/4" GAS RISE W/ GAS COCK & CAP FOR BBQ CONNECTION.
- 3/4" GAS BELOW GRADE.
- 2" VENT RISE TO 3" VTR.
- 2" PLUG VALVE ON HOUSE SIDE OF METER.

GAS LOAD SCHEDULE:

APPLIANCE:	LOAD:
ROOFTOP UNIT (RTU-1)	150.0 MBH
ROOFTOP UNIT (RTU-2)	400.0 MBH
ROOFTOP UNIT (RTU-3)	150.0 MBH
RADIANT HEATER (RH-1)	80.0 MBH
RADIANT HEATER (RH-2)	80.0 MBH
RADIANT HEATER (RH-3)	80.0 MBH
RADIANT HEATER (RH-4)	80.0 MBH
GAS UNIT HEATER (GUH-1)	150.0 MBH
GAS UNIT HEATER (GUH-2)	150.0 MBH
GAS UNIT HEATER (GUH-3)	150.0 MBH
HEATING BOILERS (B-1)	399.0 MBH
HEATING BOILERS (B-2)	399.0 MBH
HEATING BOILERS (B-3)	399.0 MBH
GAS WATER HEATER (GWH-1)	150.0 MBH
GAS WATER HEATER (GWH-2)	150.0 MBH
OVEN	100.0 MBH
BBQ	100.0 MBH
TOTAL	2,717 MBH INPUT AT S.L. (2 P.S.I.) GAS REQUIRED, P.C. TO COORDINATE GAS LOAD WITH LOCAL GAS COMPANY.



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Owner
City of Greeley

970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037



The Ballard Group, Inc.
Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

City of Greeley
Greeley Fire Station #6
10803 20TH ST, GREELEY COLORADO 80634



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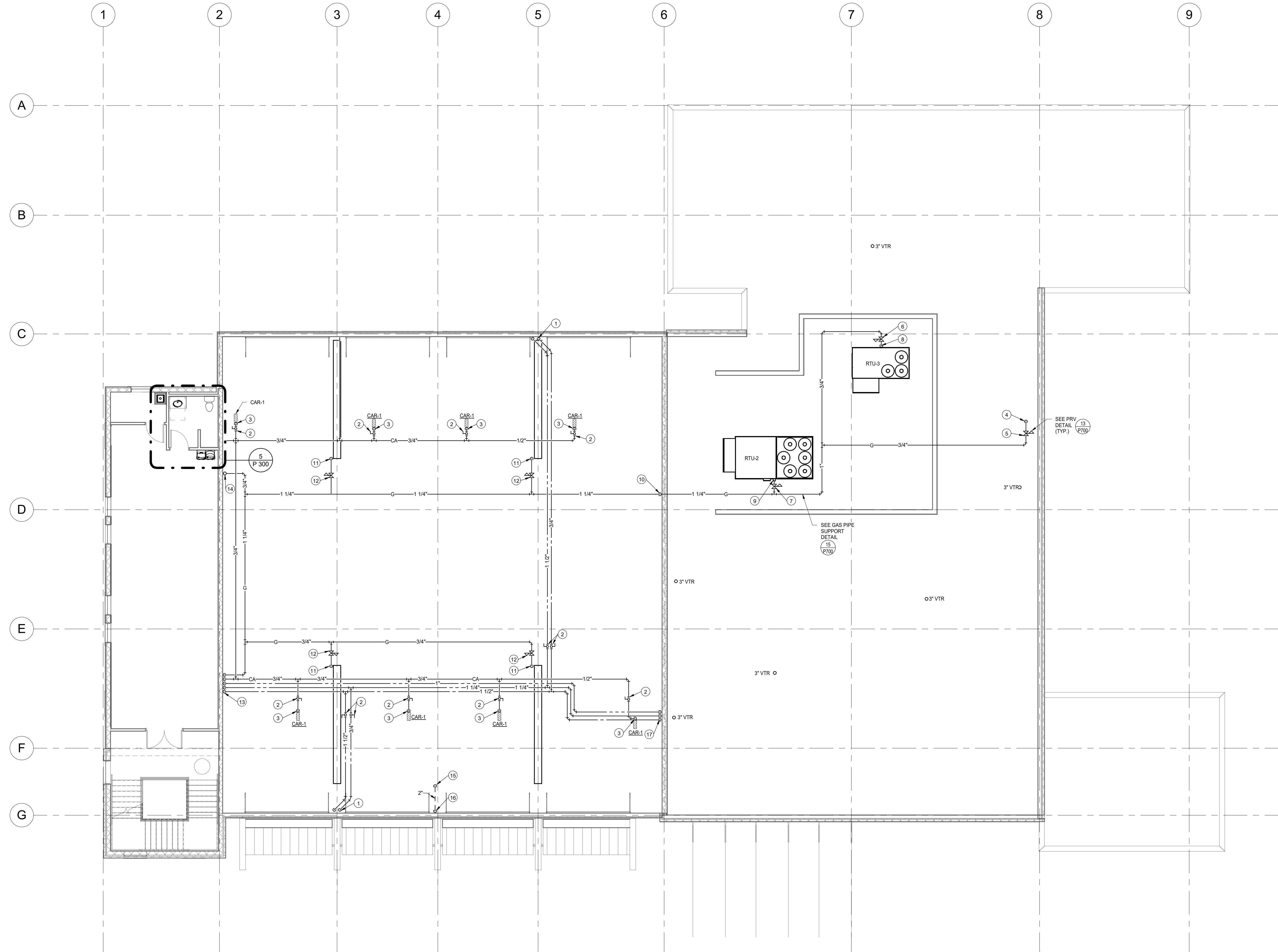
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FIRST FLOOR PLUMBING PLAN

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SECOND FLOOR PLUMBING KEYNOTES:

- 1-1/2" CW & 3/4" HW DOWN ON WALL.
- BALL VALVE (FULL SIZE) W/ SERVICE ACCESS.
- CONNECT 1/2" CA TO CAR-1.
- 1" GAS DOWN THRU ROOF.
- GAS PRV, 200 MBH INPUT AT S.L., 2.0 P.S.I. TO 6" WC.
- GAS PRV, 150 MBH INPUT AT S.L., 2.0 P.S.I. TO 10" WC.
- GAS PRV, 400 MBH INPUT AT S.L., 2.0 P.S.I. TO 10" WC.
- CONNECT 3/4" GAS TO RTU W/ GAS COCK & 6" DIRT LEG.
- CONNECT 1-1/4" GAS TO RTU W/ GAS COCK & 6" DIRT LEG.
- 1-1/4" GAS DOWN ON WALL AND OFFSET ON TO ROOF.
- CONNECT 3/4" GAS TO RADIANT HEATER W/ GAS COCK 6" DIRT LEG.
- GAS PRV, 80 MBH INPUT AT S.L., 2.0 P.S.I. TO 8" WC (VENTLESS MODEL).
- 2" CW, 1-1/4" HW, 1" HWC, 1-1/4" GAS & 1" CA UP ON WALL & OFFSET AT STRUCTURE.
- 3/4" GAS RISE TO ROOF.
- 2" VENT RISE TO 3" VTR.
- 2" VENT UP FROM BELOW & OFFSET AT STRUCTURE.
- 1-1/2" CW, 1-1/4" HW & 1" HWC DOWN ON WALL.

Owner
City of Greeley

970.350.9777

Architect/Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc.
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

The Ballard Group, Inc.
Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

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GREELEY FIRE STATION #6

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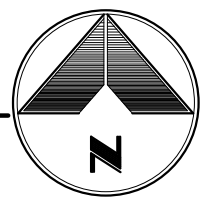
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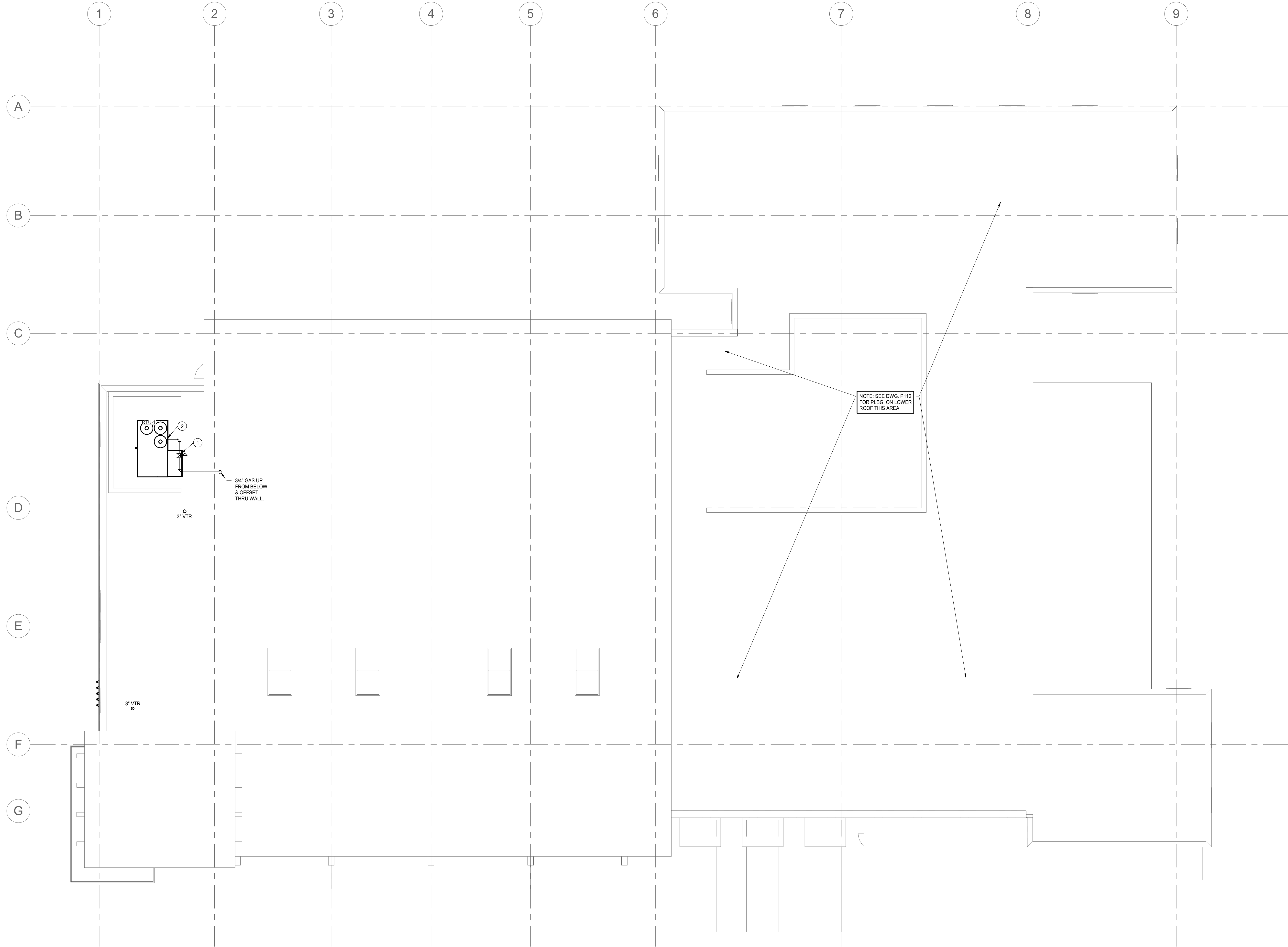
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SECOND FLOOR PLUMBING PLAN

SECOND FLOOR PLUMBING PLAN

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





- ROOF PLUMBING KEYNOTES:**
- ① GAS PRV., 150 MBH INPUT AT S.L., 2.0 P.S.I. TO 10\"/>

NOTE: SEE DWG. P112
FOR PLBG. ON LOWER
ROOF THIS AREA.

ROOF PLUMBING PLAN

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



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Owner
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970.350.9777

Architect/Civil Engineer/ Structural

Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect

DHM Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer

The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer

CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037



The Ballard Group, Inc.
Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

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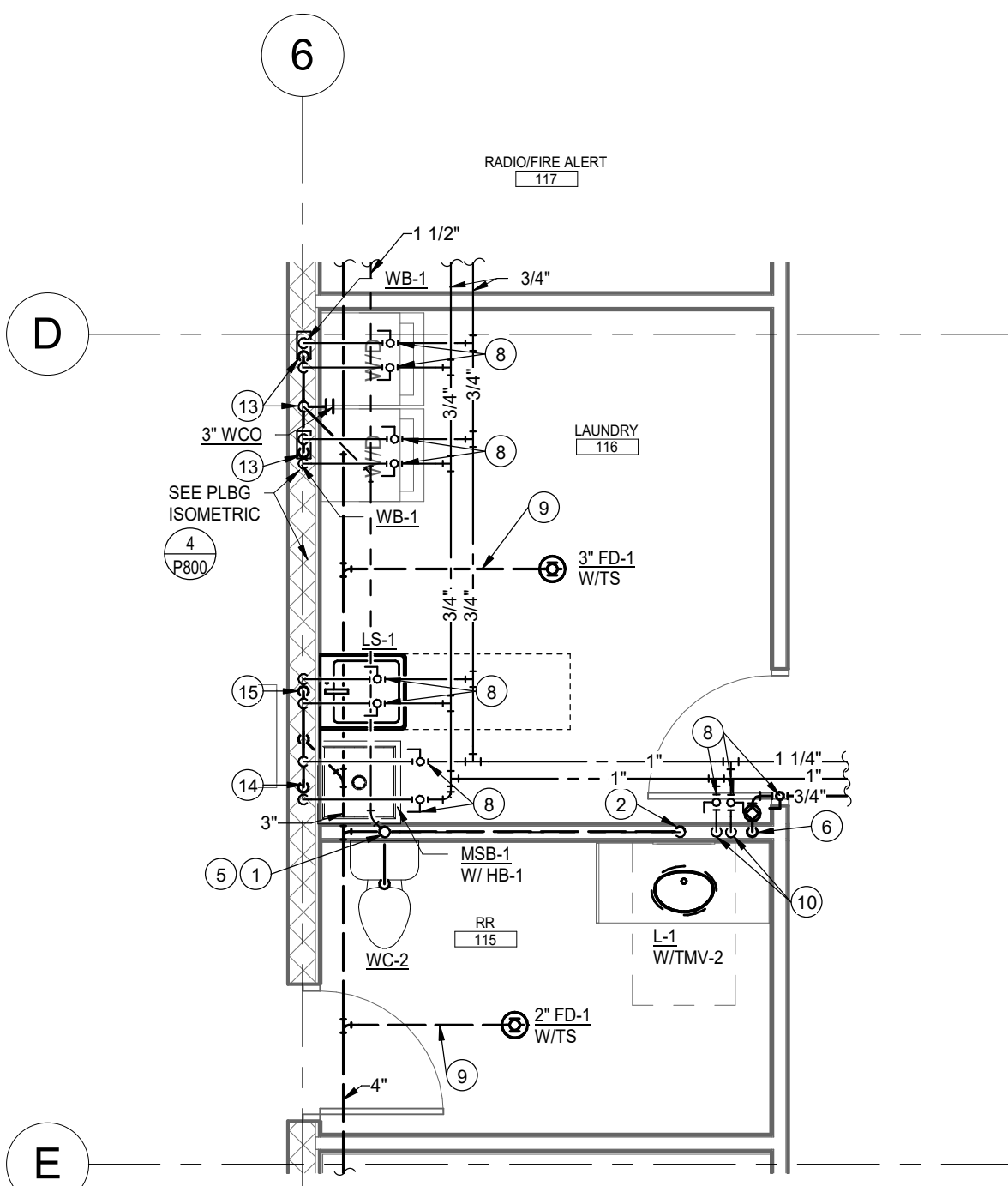
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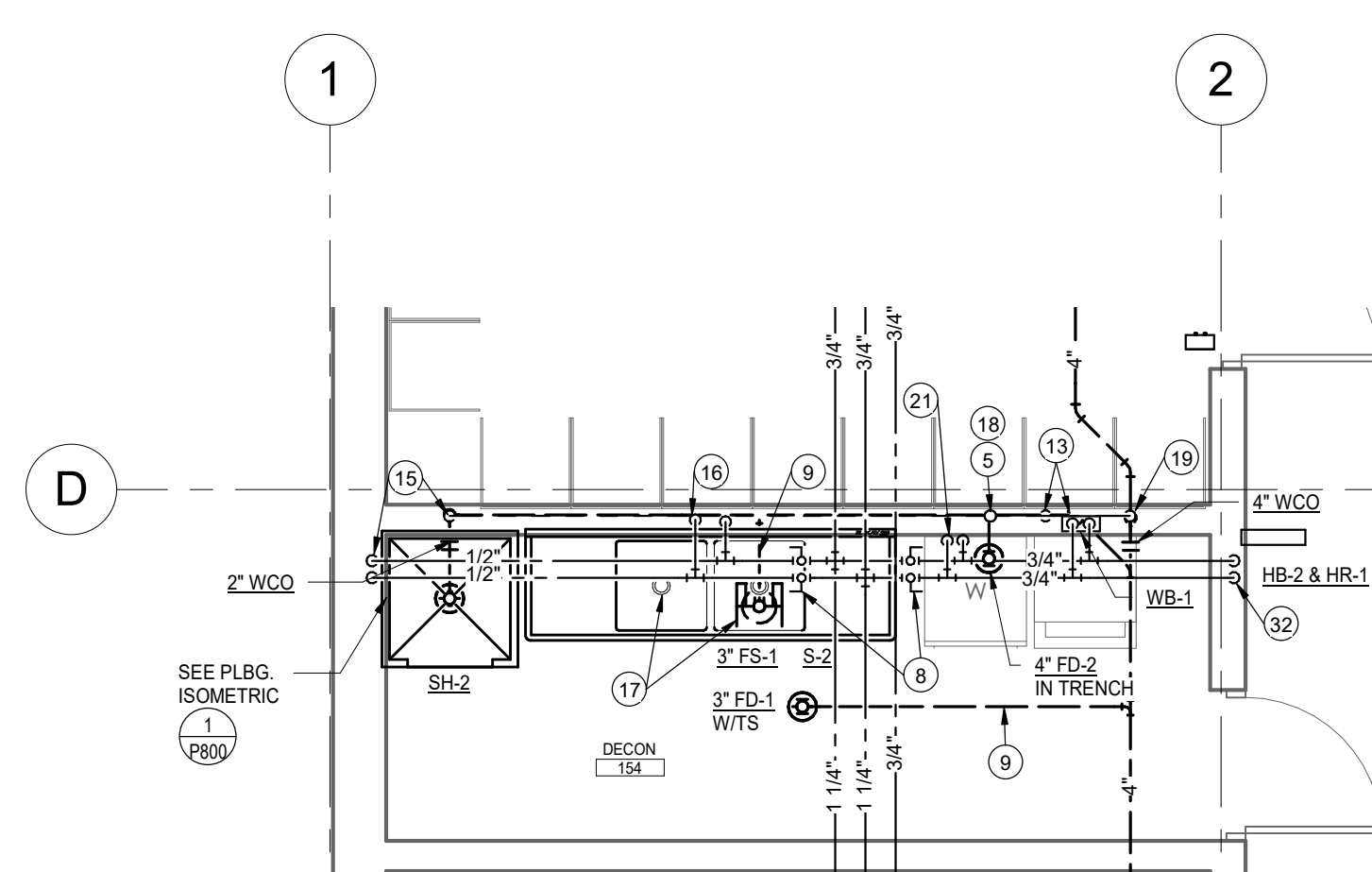
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Roof Plumbing Plan

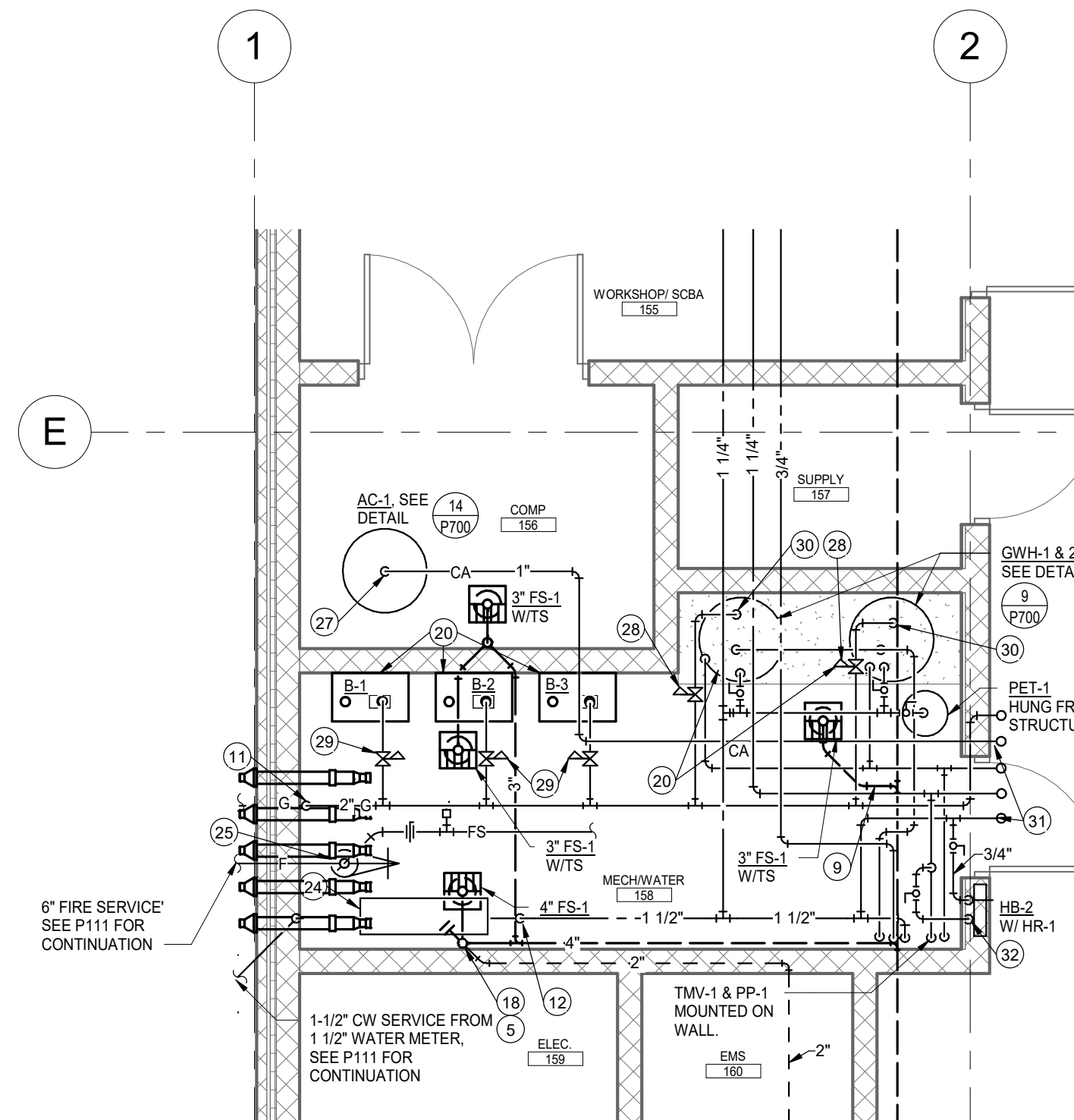
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3 ENLARGED SCALE PLUMBING PLAN
P 300 SCALE: 1/4" = 1'-0"



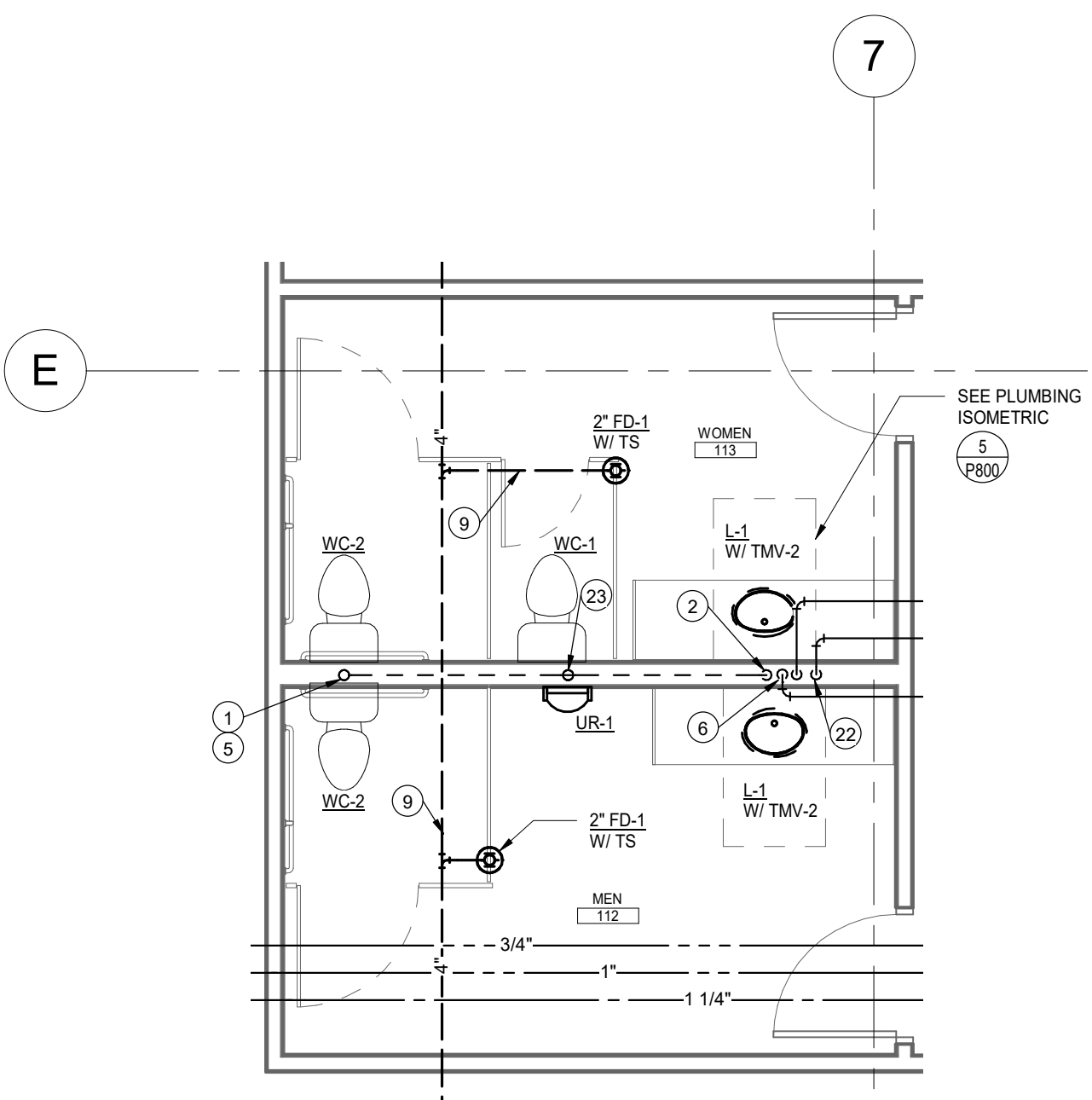
2 ENLARGED SCALE PLUMBING PLAN
P 300 SCALE: 1/4" = 1'-0"



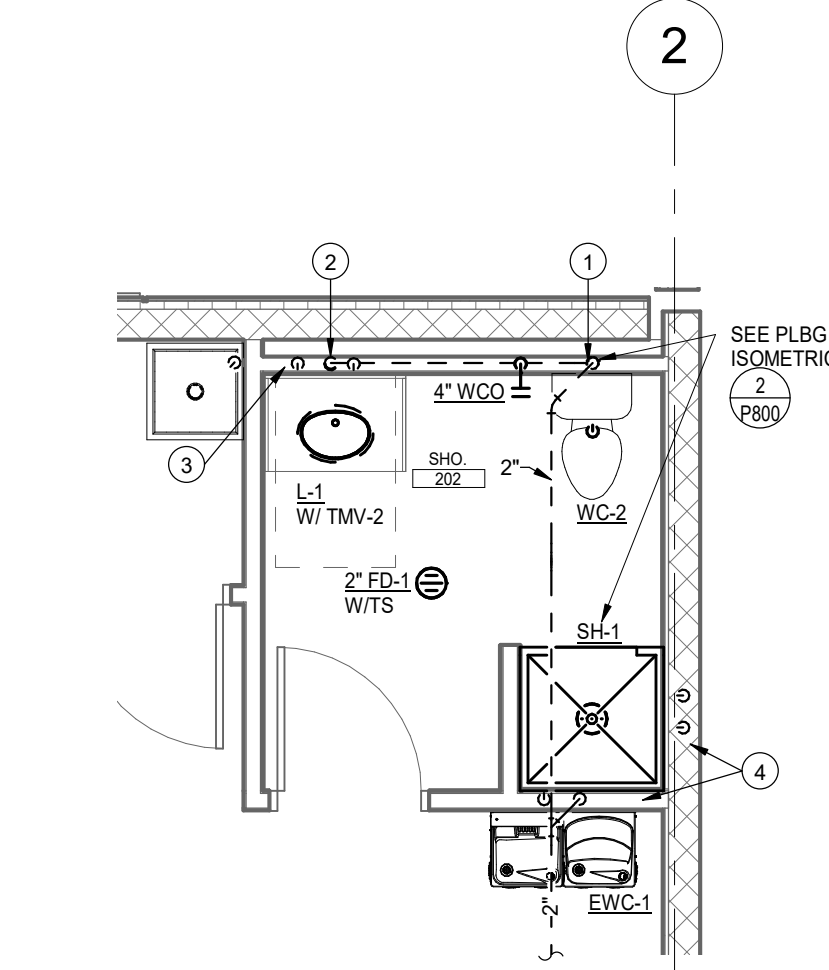
1 ENLARGED SCALE PLUMBING PLAN
P 300 SCALE: 1/4" = 1'-0"

ENLARGED SCALE PLUMBING KEYNOTES:

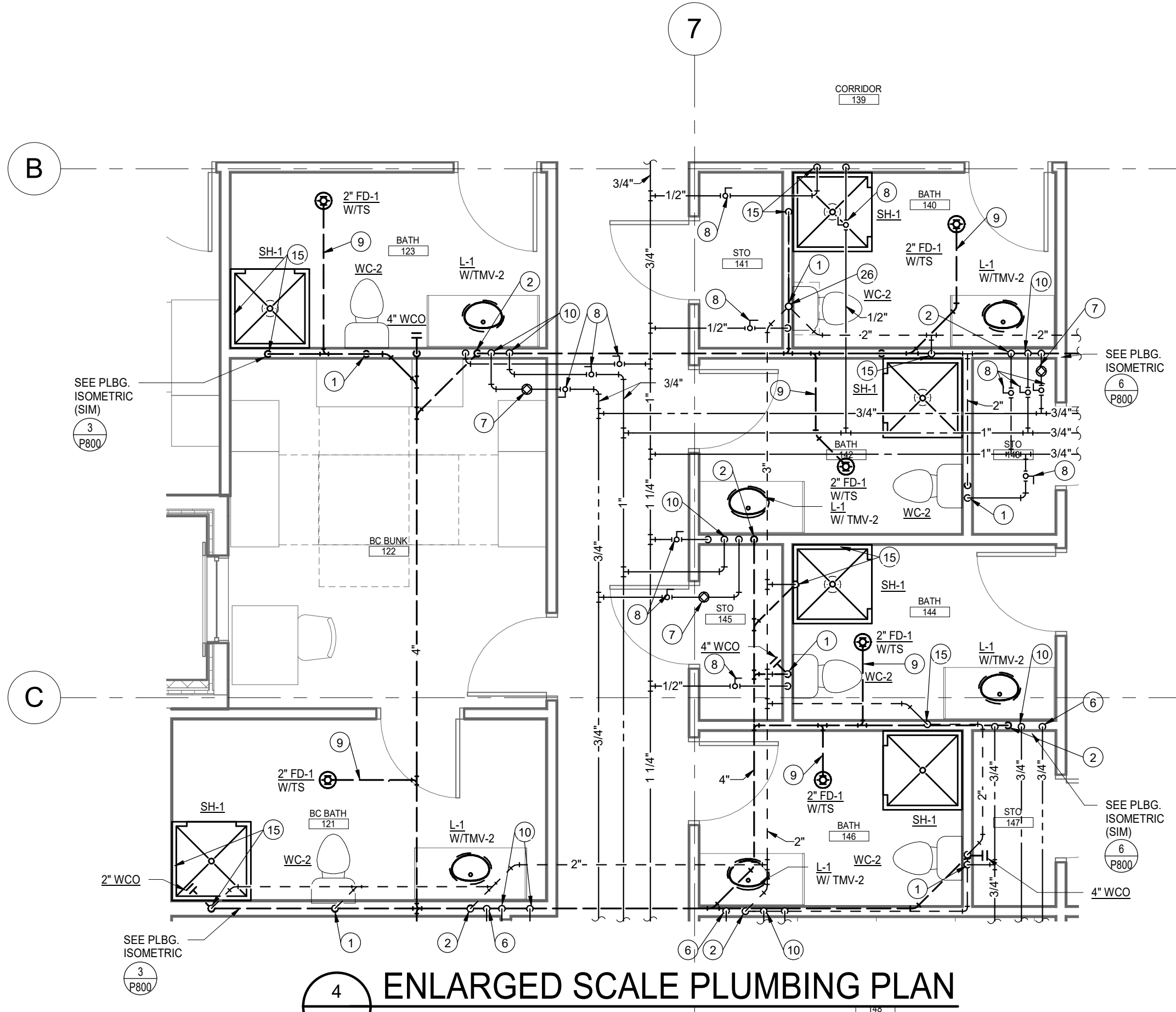
- 1 4" WASTE DOWN, 2" VENT RISE, 1/2" CW TO WC.
- 2 2" WASTE DOWN, 1 1/2" VENT RISE, 1/2" HW & 1/2" CW TO LAV/TMV.
- 3 3/4" HW, 3/4" CW & 3/4" HWC UP FROM BELOW TO FIXTURES.
- 4 2" WASTE DOWN, 1 1/2" VENT RISE, 1/2" HW & 1/2" CW TO SHOWER, 1/2" CW TO EWC.
- 5 2" VENT RISE TO 3" VTR.
- 6 3/4" HWC DOWN IN WALL & CONNECT TO HW.
- 7 1/2" BALANCING VALVE W/ SERVICE ACCESS, BALANCE TO 0.5 GPM.
- 8 BALL VALVE (FULL SIZE) W/ SERVICE ACCESS.
- 9 COMBINATION WASTE & VENT SYSTEM.
- 10 3/4" CW & 3/4" HW DOWN IN WALL & OFFSET TO FIXTURES.
- 11 2" GAS TO ENTER BUILDING AT 36" ABOVE GRADE & RISE ON WALL & OFFSET AT STRUCTURE.
- 12 1-1/2" CW RISE & OFFSET AT STRUCTURE.
- 13 3" WASTE DOWN, 1 1/2" VENT RISE, 1/2" HW & 1/2" CW TO WB.
- 14 3" WASTE DOWN, 1-1/2" VENT RISE, 1/2" HW & 1/2" CW TO MSB, 3/4" CW TO HB.
- 15 2" WASTE DOWN, 1 1/2" VENT RISE, 1/2" HW & 1/2" CW TO LS/SH.
- 16 1/2" HW & 1/2" CW TO SINK FAUCET.
- 17 INDIRECT WASTE TO AIRGAP TO F.S.
- 18 4" WASTE DOWN, 2" VENT RISE TO FDF.S.
- 19 4" WASTE STACK RISE & OFFSET ABOVE CEILING.
- 20 CONDENSATE PIPING TO AIRGAP TO F.S.
- 21 3/4" HW & 3/4" CW TO WASHER.
- 22 1-1/4" CW & 3/4" HW DOWN IN WALL & OFFSET TO FIXTURES.
- 23 4" WASTE DOWN, 3" WET VENT, 2" VENT RISE, 1/2" CW TO WC, 3/4" CW TO UR.
- 24 1-1/2" CW RISE TO WATER ENTRY, SEE DETAIL 9/P700.
- 25 6" FIRE ENTRY SERVICE, SEE DETAIL 8/P700.
- 26 3" VENT RISE TO 3" VTR.
- 27 CONNECT 1" CA TO AC-1.
- 28 GAS PRV, 150 MBH INPUT AT S.L., 2.0 P.S.I TO 10" WC (VENT TO SIDEWALK).
- 29 GAS PRV, 399 MBH INPUT AT S.L., 2.0 P.S.I TO 10" WC (VENT TO SIDEWALK).
- 30 CONNECT 3/4" GAS TO GWH W/ GAS COCK & 6" DIRT LEG.
- 31 1-1/2" CW, 1-1/4" HW, 1" HWC, 1-1/2" GAS & 1" CA RISE ON WALL.
- 32 3/4" HW & 3/4" CW TO HB-2, 3/4" TO HR-1.



6 ENLARGED SCALE PLUMBING PLAN
P 300 SCALE: 1/4" = 1'-0"



5 ENLARGED SCALE PLUMBING PLAN
P 300 SCALE: 1/4" = 1'-0"



4 ENLARGED SCALE PLUMBING PLAN
P 300 SCALE: 1/4" = 1'-0"

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WATER HEATER SCHEDULE (GAS-FIRED)										
PLAN CODE	MANUFACTURER & MODEL NO.	STORAGE GALLONS	G.P.H. RECOVERY @ 100' RISE	BTUH INPUT @ SEA LEVEL	EFF. FACTOR	FLUE SIZE	TANK SIZE		OPER. WEIGHT	REMARKS
							DIA.	HT.		
GWH-1 & 2	AO SMITH BTH-150	100	178	150,000	98.0	SEE HVAC	27 3/4"	76 1/2"	1,400 lbs.	NOTE: 1, 2, 3
<div>NOTES:</div> <div>1. ASME T & P RELIEF</div> <div>2. 120/60/1Ø CONTROL VOLTAGE</div> <div>3. SET TANK TEMPERATURE AT 140°F</div>										

AIR COMPRESSOR SCHEDULE									
PLAN CODE	MANUFACTURER & MODEL NO.	SCFM @ S.L.	DISCHARGE PSIG	RECEIVER SIZE (GALS.)	ELECTRICAL				REMARKS
					HP	VOLTS	PH	RPM	
AC-1	GRAINGER/SPEEDAIRE #35WC48	24.3 FREE AIM	175	80	7.5	460	3	1,750	NOTE: 1
<div>NOTES:</div> <div>1. PRESSURE SWITCH CONTROLS.</div>									

PLUMBING PUMP SCHEDULE															
PLAN CODE	MANUFACTURER & MODEL NO.	TYPE	SERVICE	IMP. DIA. (IN)	GPM	HEAD	% EFF.	ELECTRICAL				VIBRATION ISOLATION	CONTROL	WEIGHT (LBS)	REMARKS
								HP (BHP)	VOLTS	PH	RPM				
PP-1	B&G PL-36B	IN-LINE	HWC	-	7.5	20'	-	1/6	115	1	3,300	INTEGRAL	24/7		NOTE: 1
<div>NOTES:</div> <div>1. OPERATION 24/7.</div>															

PLAN CODE	DESCRIPTION	MANUF.	MODEL	COLOR FINISH	FITTINGS	MANUF.	MODEL	COLOR FINISH	REMARKS
WC-1	WATER CLOSET (1.28 GPF)	AMERICAN STANDARD	212CA.104	WHITE	SEAT	OLSONITE	95SSCT	WHITE	NOTE: 2
WC-2	WATER CLOSET (ACCESSIBLE) (1.28 GPF)	AMERICAN STANDARD	212AA.104	WHITE	SEAT	OLSONITE	95SSCT	WHITE	NOTES: 2, 3
L-1	LAVATORY-UNDERCOUNTER (ACCESSIBLE) (0.5 GPM)	AMERICAN STANDARD	0497.221	WHITE	FAUCET	AMERICAN STANDARD	7186.201	CHROME	NOTES: 1, 4, 5, 6
S-1	SINK-UNDERCOUNTER (ACCESSIBLE) (1.5 GPM)	ELKAY	ELUH4D-1418	STAINLESS STEEL	FAUCET	DELTA	9159-DST	CHROME	NOTES: 1, 5, 6, 9
S-2	SINK (1.5 GPM)	ELKAY	ELUH361710DBG	STAINLESS STEEL	FAUCET	DELTA	9159-DST	CHROME	NOTES: 1, 6, 9
S-3	SINK (1.5 GPM)	ELKAY	14-2C24X24-2-24X	WHITE	FAUCET	CHICAGO	510-GC-613ALABCP	CHROME	NOTES: 1, 18
S-4	SINK UNDERCOUNTER MTD. (ACCESSIBLE) 1.5 GPM	ELKAY	ELUHAD1212	STAINLESS STEEL	FAUCET	DELTA	27C4924	CHROME	NOTES: 1, 5, 6, 16
S-5	SINK UNDERCOUNTER MTD. (ACCESSIBLE) 1.5 GPM	ELKAY	ELUHAD1316	STAINLESS STEEL	FAUCET	DELTA	1980-DST	CHROME	NOTES: 1, 5, 6, 16
MSB-1	MOP SERVICE BASIN	FIAT	MSB2424	WHITE	FAUCET	ZURN	ZB431M1SCRC	CHROME	NOTES: 7
EWC-1	ELECTRIC WATER COOLER (HIGH/LOW) W/ BOTTLE FILL STATION	ELKAY	LZSTL8WSLK	STAINLESS STEEL	-	-	-	-	NOTES: 1, 1/5 H.P. 120/60/110
EWC-2	ELECTRIC WATER COOLER (SINGLE) W/ BOTTLE FILL STATION	ELKAY	LZS8WSLK	STAINLESS STEEL	-	-	-	-	NOTE: 1, 1/5 H.P. 120/60/1Ø
SH-1	SHOWER (ACCESSIBLE) 1.5 GPM HEAD	BY G.C.			VALVE HEAD	AMERICAN STANDARD	R110 VALVE NOTE: 16	CHROME	NOTES: 12, 15
HS-1	HAND SINK	ADVANCED TABCO	7-PS-75	STAINLESS STEEL	FAUCET	CHICAGO	895-317ABCP-0.50 GPM	CHROME	NOTES: 1,4,5,13
IMB-1	ICE MAKER BOX SEE SPEC.								
GDU-1	GARBAGE DISPOSAL UNIT	IN-SINK-ERATOR	BADGER 5	-	-	-	-	-	
LS-1	LAUNDRY SINK (1.5 GPM)	FIAT	FL-1	WHITE	FAUCET	DELTA	27C4944	CHROME	1/2 H.P. 120/60/10 NOTES: 1, 4
FD-1	FLOOR DRAIN	SEE SPEC.							
FD-2	FLOOR DRAIN	SEE SPEC.							
FD-3	FLOOR DRAN	SEE SPEC.							
HB-1 & 2	HOSE BIB	SEE SPEC.							
WH-1	WALL HYDRANT	SEE SPEC.							
TD-1	TRENCH DRAIN - APPARATUS BAY								SEE DETAIL 4/P700 NOTE:11
TD-2	TRENCH DRAIN - SH-1 & 2	BLUCHER	BWC-130-C 30"	STAINLESS STEEL					
TD-3	TRENCH DRAIN - DECONTAM	ZURN	Z886-HPS						NOTE: 17
HR-1	HOSE REEL (WATER)	COXREEL	1125-4-200	BLUE POLYESTER FINISH	-	-	-	-	NOTE: 8
<div>NOTES:</div> <div>1. 17 GA. P-TRAP, ANGLE SUPPLIES WITH W.H. STOPS.</div> <div>2. ANGLE SUPPLY W/ W.H. STOPS.</div> <div>3. HANDLE ON ACCESS SIDE OF TOILET.</div> <div>4. GRID STRAINER, 0.5 GPM FLOW RESTRICTOR.</div> <div>5. INSULATION KIT FOR SUPPLIES AND DRAIN.</div> <div>6. COORDINATE HOLE PUNCH IN SOLID SURFACE COUNTERTOP FOR FAUCET.</div> <div>7. VACUUM BREAKER, CHECK STOPS.</div> <div>8. PROVIDE 100' OF 3/4" HOSE.</div> <div>9. CHROME CUP STRAINER, 1.5GPM FLOW RESTRICTOR.</div> <div>10. FIXED HEAD AT 78".</div> <div>11. COPENHAGEN GRATE</div> <div>12. WTD-2</div> <div>13. WITH CONCEALED ARM CARRIER</div> <div>14. (2) HEADS, (1) FIXED AT 78" AND (1) HANDHELD WITH BAR, HEAD, HOSE AND DIVERTER.</div> <div>15. R110 VALVE, R422 DIVERTER WITH T342430.000 TRIM KIT, T186.508 TRIM KIT (FLUENT), 1660.766 HANDHELD HEAD (1.50 GPM), 1662.236 36" BAR, AND 8888035.000 STAINLESS STEEL HOSE.</div> <div>16. GRID STRAINER</div> <div>17. 2-0" LONG, BOTTOM OUTLET, STAINLESS STEEL HEELPROOF GRATE.</div> <div>18. DRAIN VALVE FOR COMPARTMENTS.</div>									

MISCELLANEOUS PLUMBING FIXTURE SCHEDULE					
PLAN CODE	DESCRIPTION	MANUFACTURER	MODEL	FINISH	REMARKS
PET-1	PLUMBING EXPANSION TANK	AMTROL	ST-12-C-V	STEEL	NOTE: 1
TMV-1	THERMOSTATIC MIXING VALVE	POWERS	LFSH1432	ROUGH BRASS	NOTES: 2, 4
TMV-2	THERMOSTATIC MIXING VALVE	POWERS	LFLM495	ROUGH BRASS	NOTE: 3
CAR-1	COMPRESSED AIR REEL	COXREEL	COX P-LP-350	BLUE	NOTES: 7, 8
GSV-1	GAS SOLENOID VALVE	SEE SPEC.			
GCS-1	GAS CONTROL VALVE	SEE SPEC.			
CA-1	COMPRESSED AIR OUTLET				NOTE: 5, 6
<div>NOTES:</div> <div>1. HANG FROM STRUCTURE/ ASME CONSTRUCTION</div> <div>2. ASSE 1017, SEE DISCHARGE AT 120 °F</div> <div>3. ASSE 1070, SEE DISCHARGE AT 110°F</div> <div>4. 15 GPM @ 5 PSI LOSS</div> <div>5. PROVIDE QUICK CONNECT OUTLET, COORDINATE WITH OWNER.</div> <div>6. PROVIDE 1/2" DIRT LEG WITH BALL VALVE.</div> <div>7. W/ 50' OF 1/2" HOSE.</div> <div>8. COORDINATE CEILING INSTALLATION.</div>					

PLUMBING FIXTURE CONNECTION SCHEDULE									
PLAN CODE	FIXTURE	PIPE SIZE (INCHES, MINIMUM)							REMARKS
		WASTE		VENT (MIN.)	COLD WATER		HOT WATER		
		TRAP & ARM	VERT. DRAIN		SUPPLY (MIN.)	CONNECTION (ACTUAL)	SUPPLY (MIN.)	CONNECTION (ACTUAL)	
WC	WATER CLOSET	INT.	4"	2"	1/2"	1/2"	-	-	
L	LAVATORY	1-1/2"	2"	1-1/2"	1/2"	3/8"	1/2"	3/8"	
S/LS	SINK/ LAUNDRY SINK	1-1/2"	2"	1-1/2"	1/2"		1/2"	1/2"	
SH	SHOWER	2"	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	
EWC	ELEC. WATER COOLER	1-1/2"	2"	1-1/2"	1/2"	3/8"	-	-	
WB	WASHER BOX	2"	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	
IMB	ICE MAKER BOX	-	-	-	1/2"	1/2"	-	-	
WH/HB	WALL HYDRANT	-	-	-	3/4"	3/4"	-	-	
MSB	MOP SERVICE BASIN	3"	3"	1-1/2"	1/2"	1/2"	1/2"	1/2"	



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Owner
City of Greeley

970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design Corporation
900 South Broadway Denver,
Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037

The Ballard Group, Inc.
Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

City of Greeley
Greeley Fire Station #6
10803 20TH ST, GREELEY COLORADO 80634

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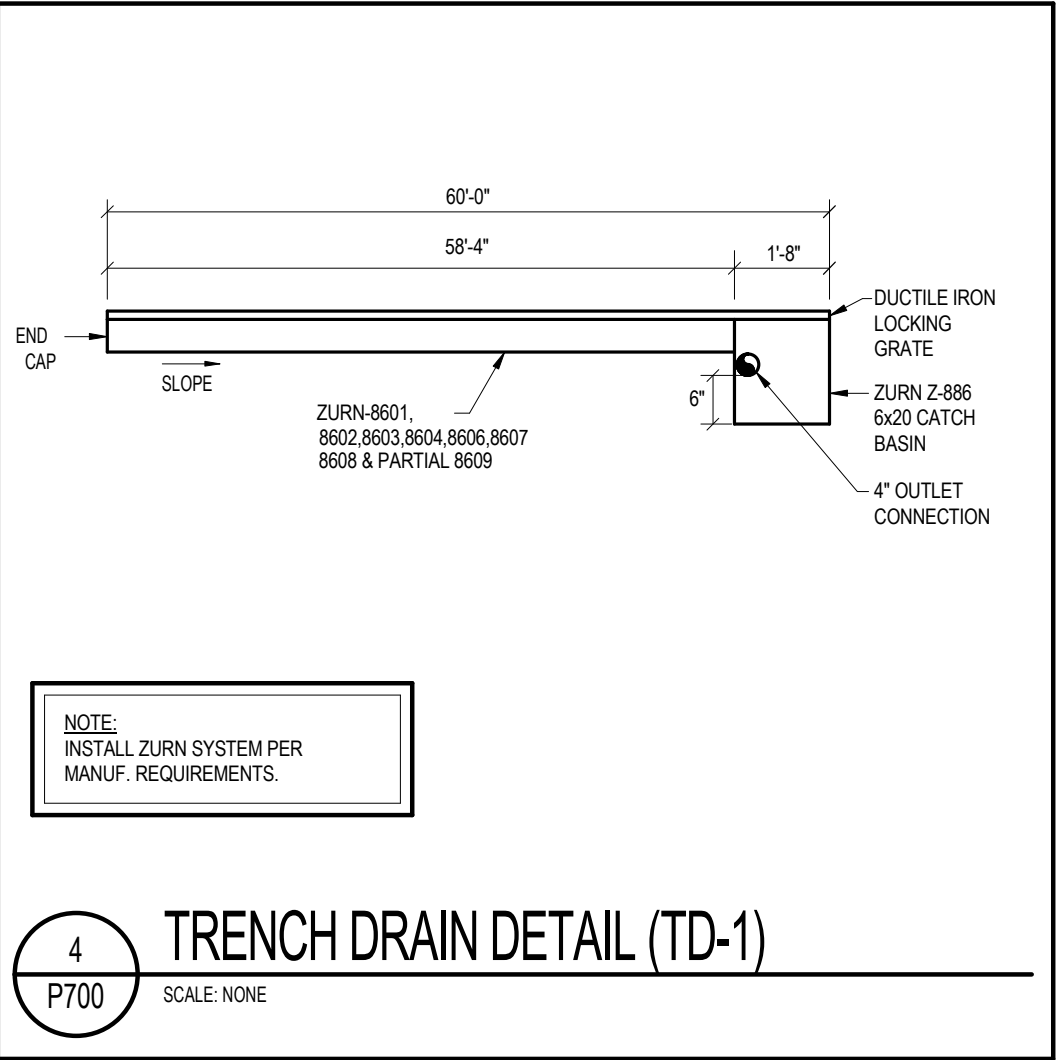
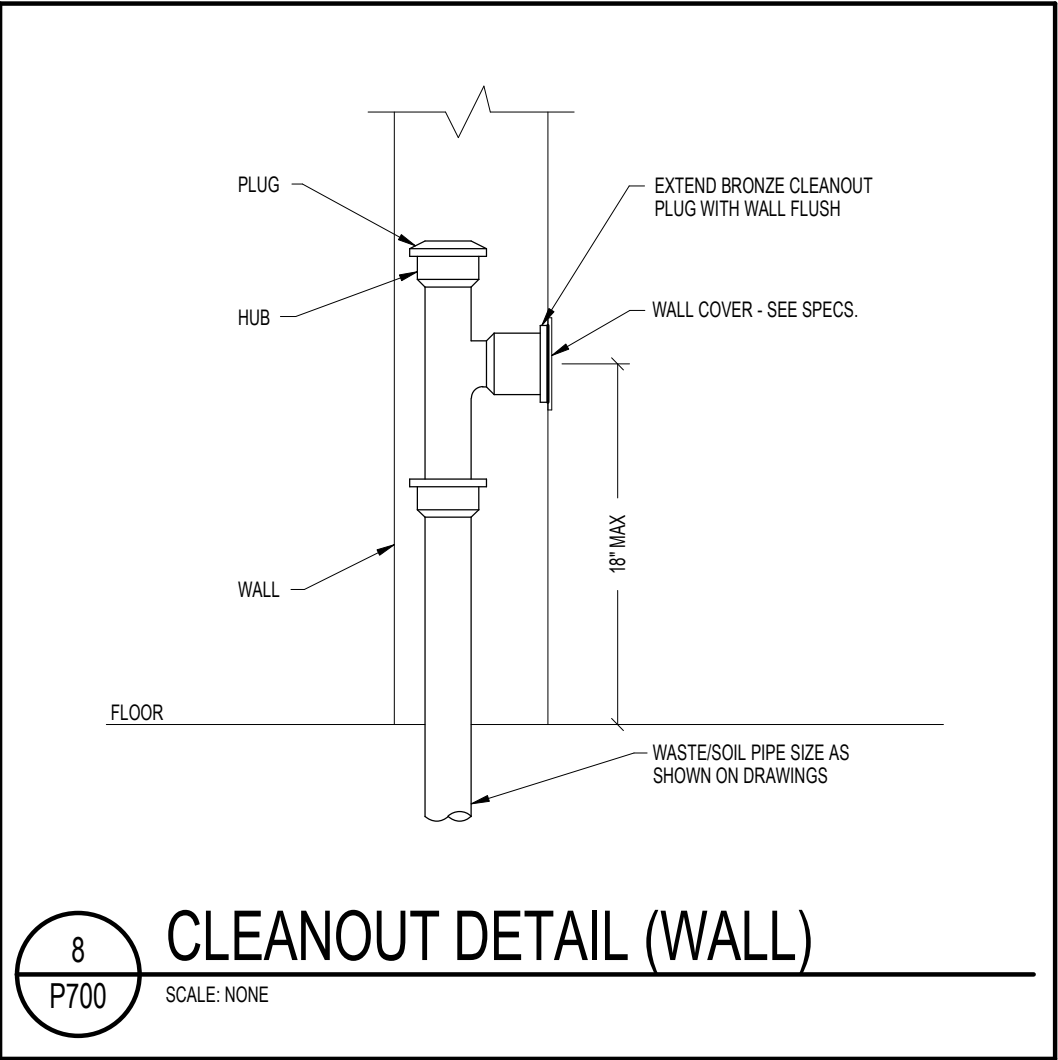
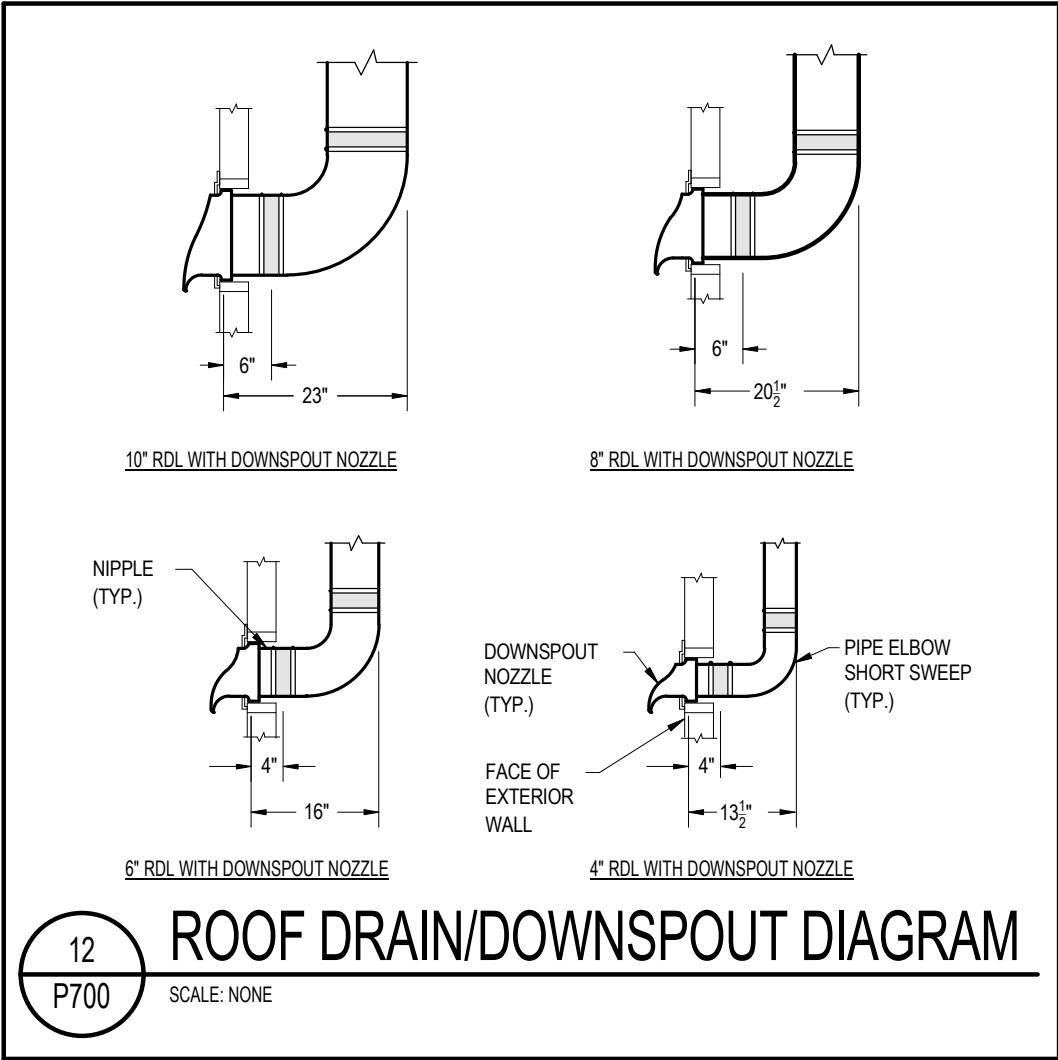
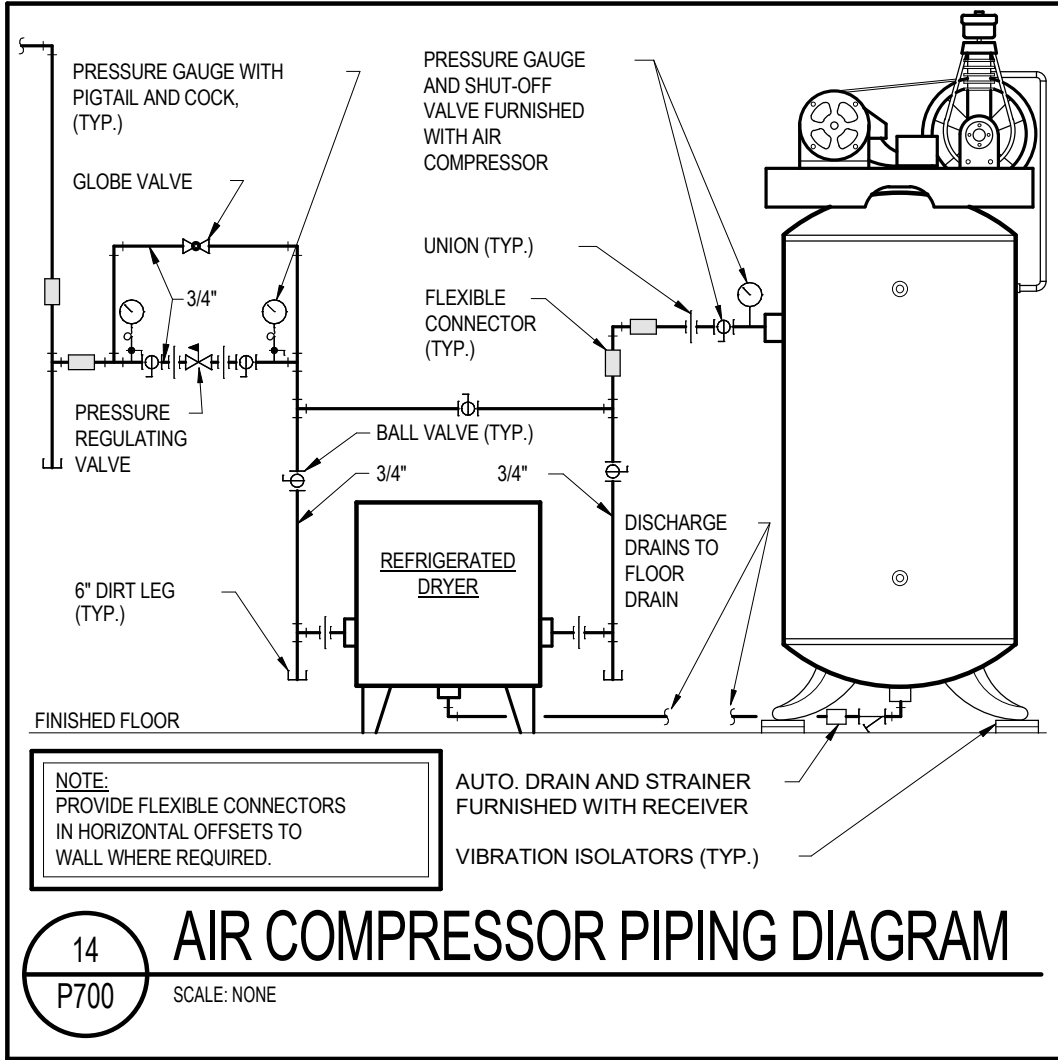
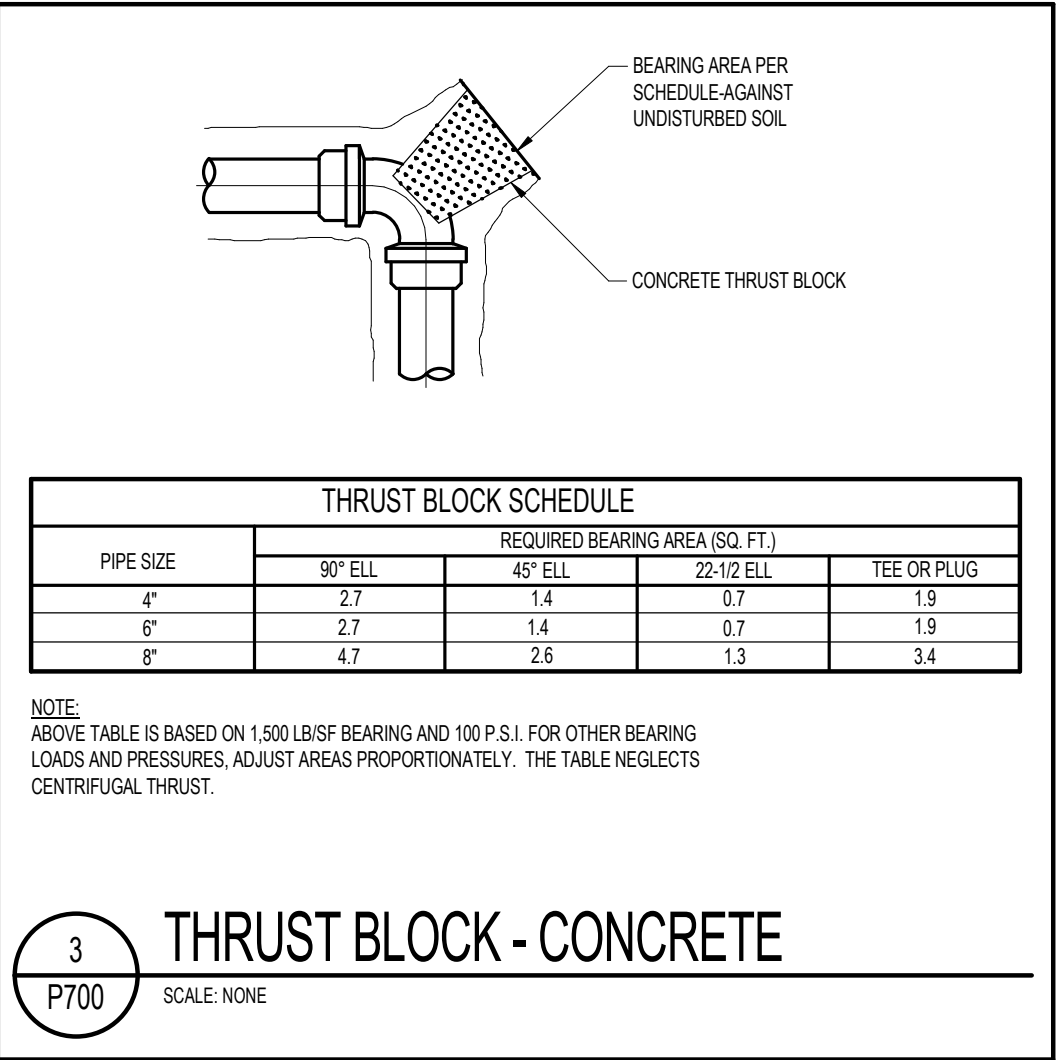
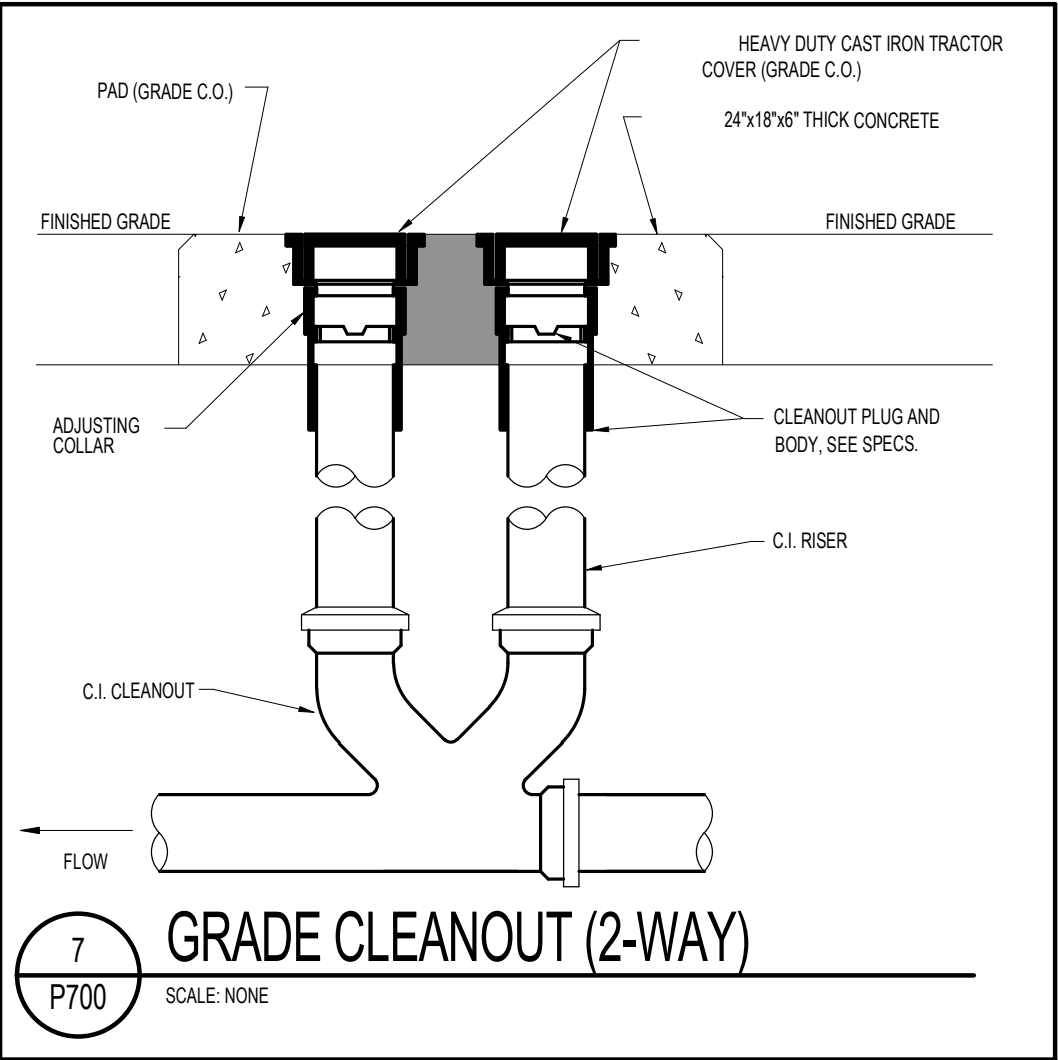
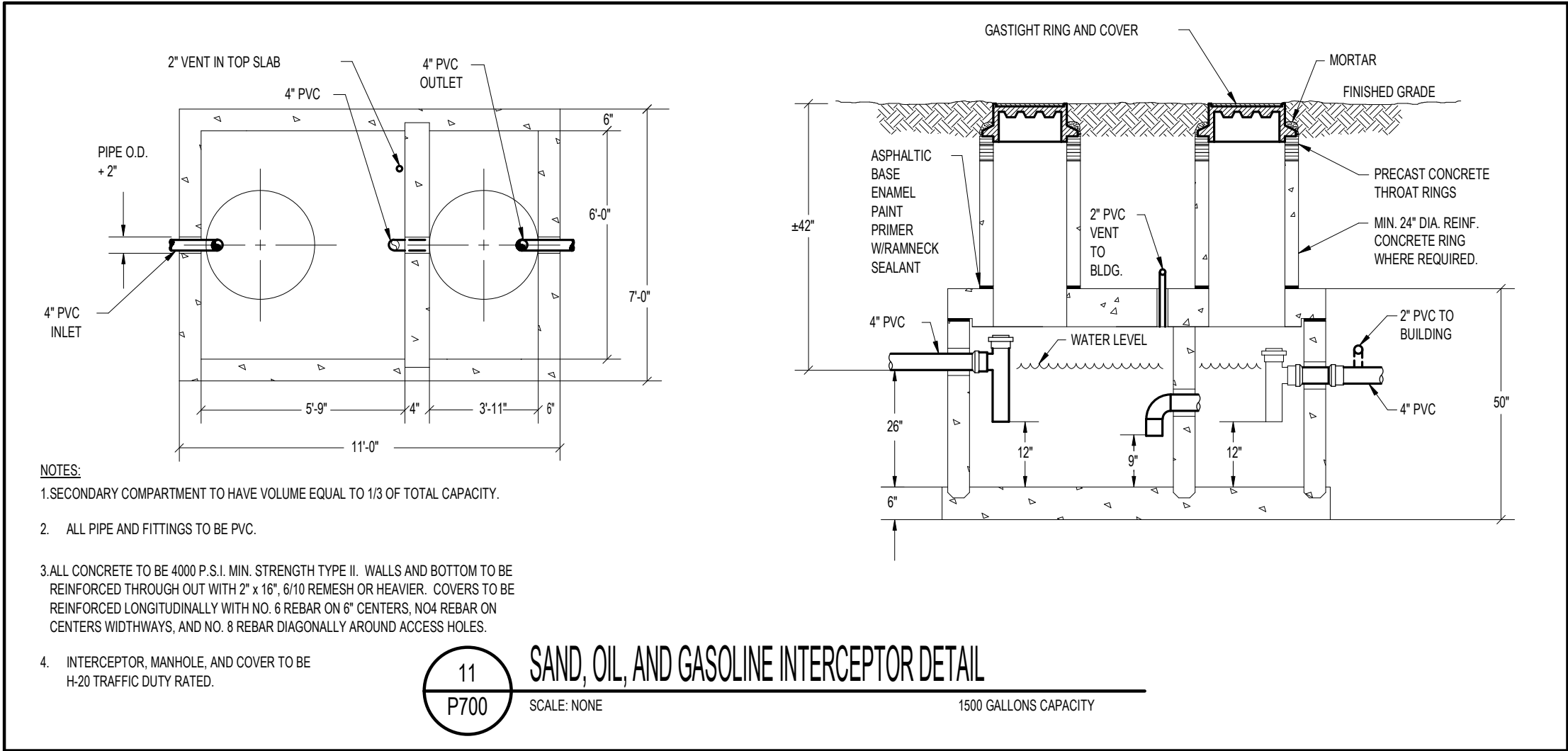
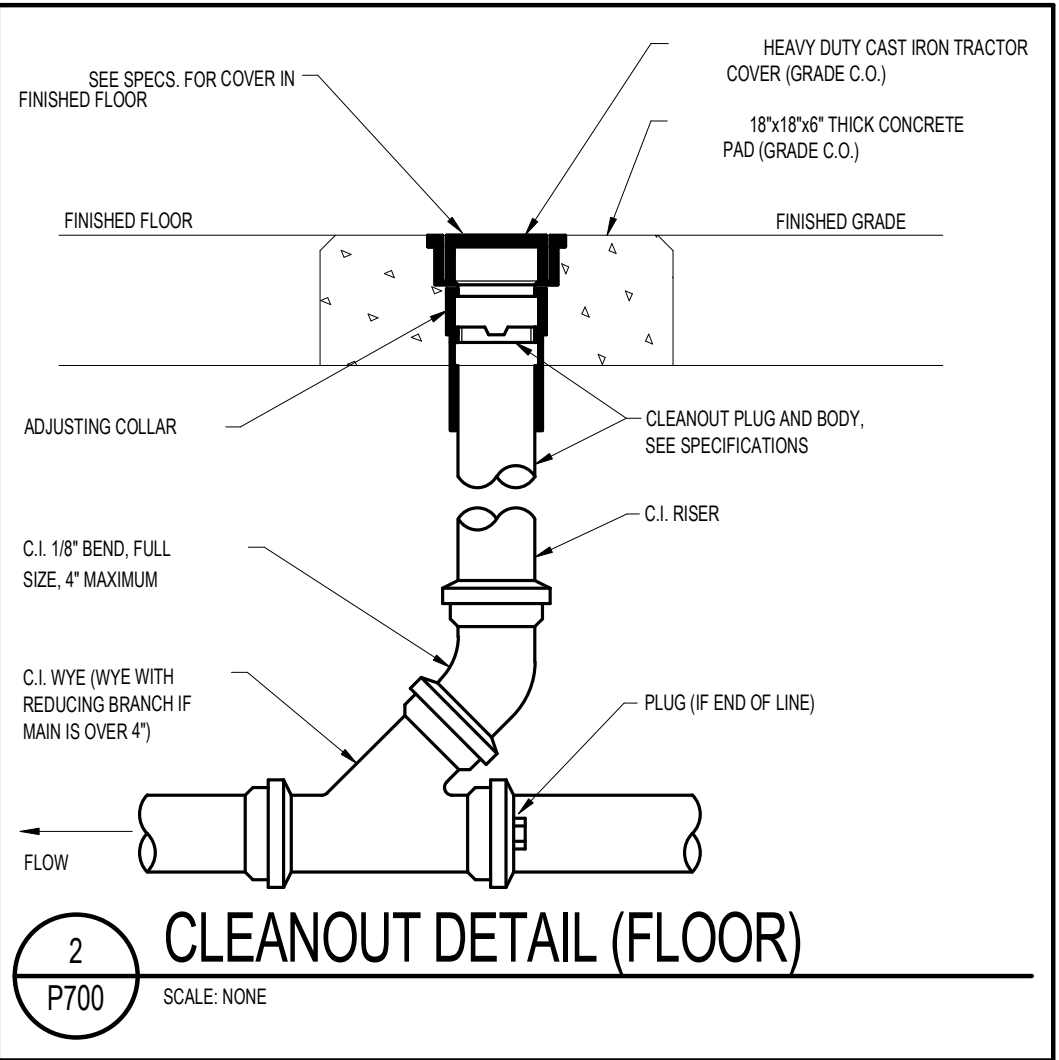
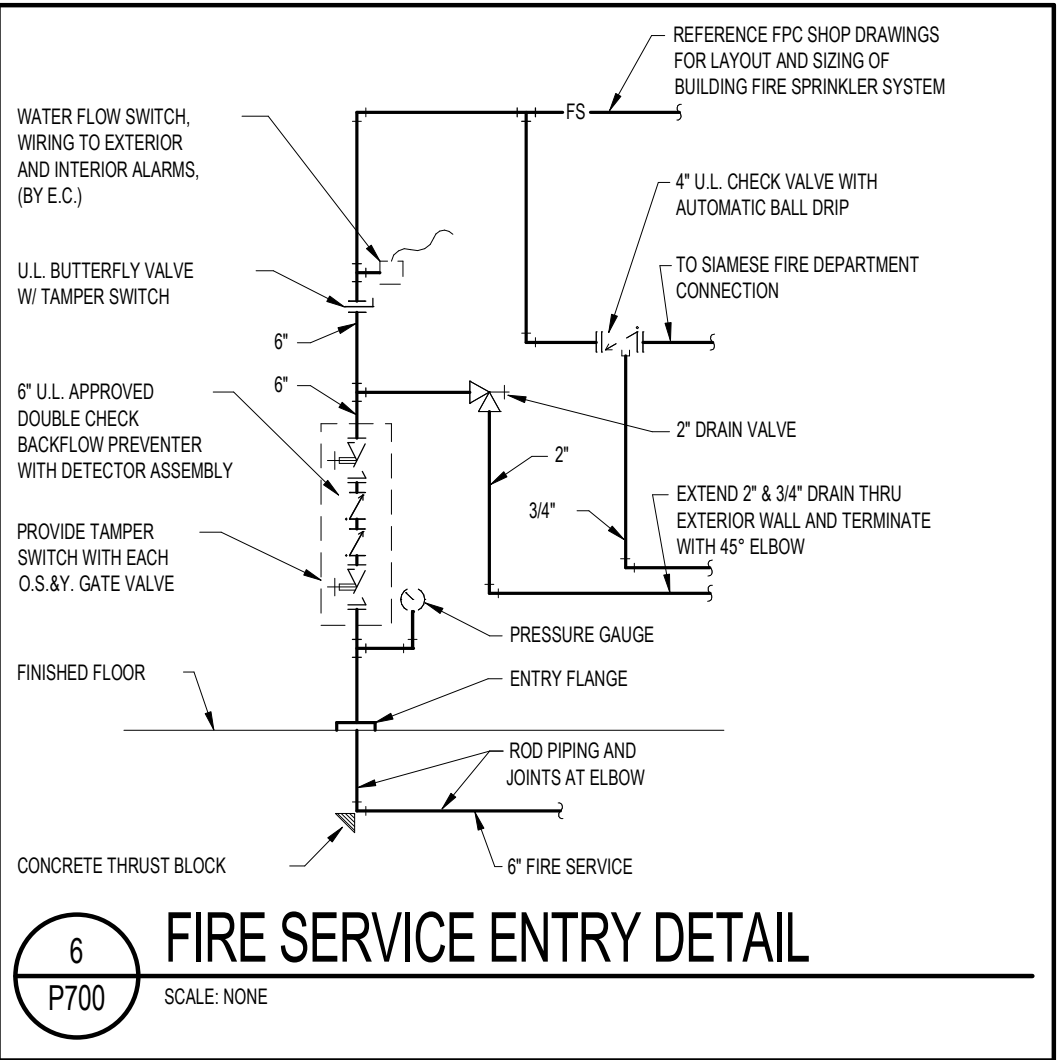
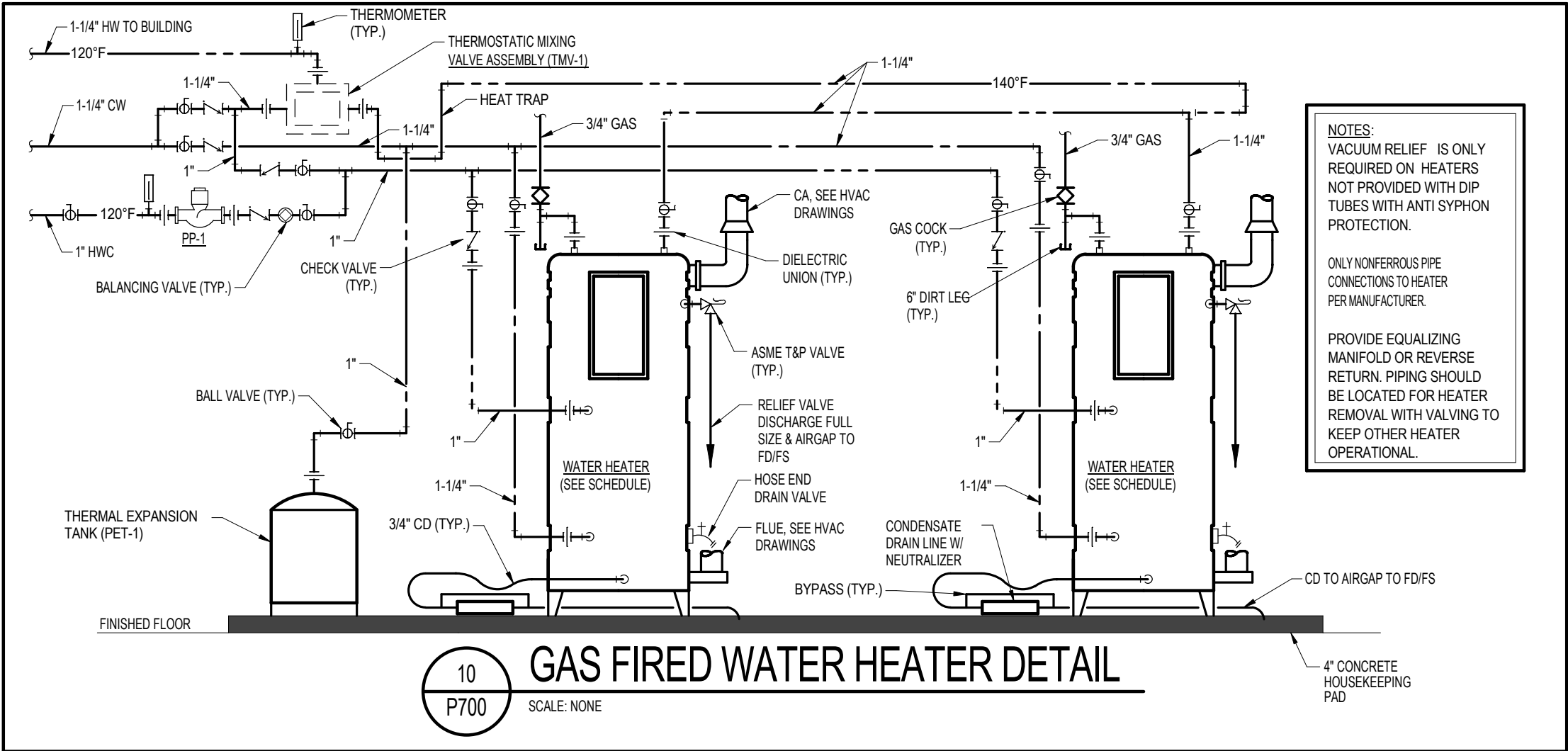
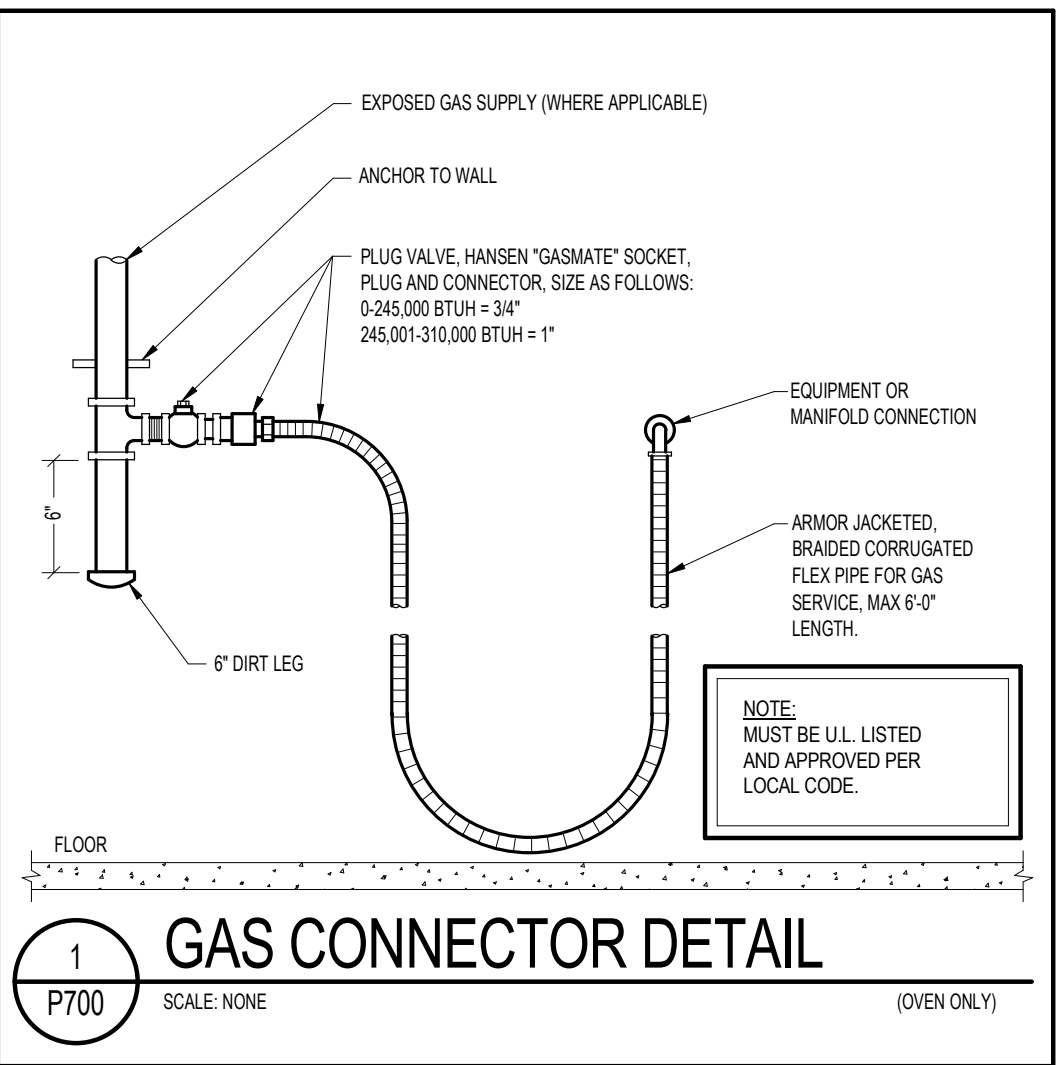
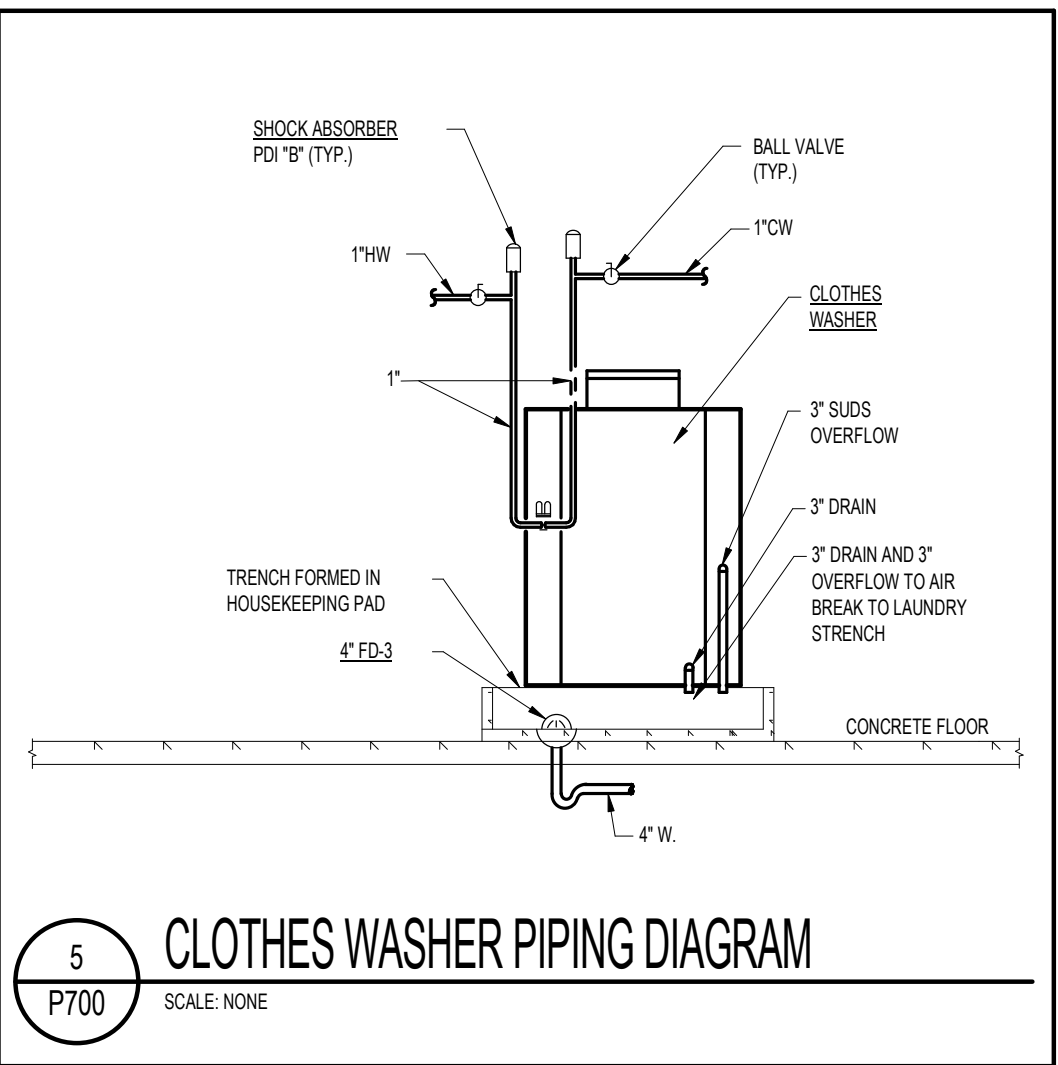
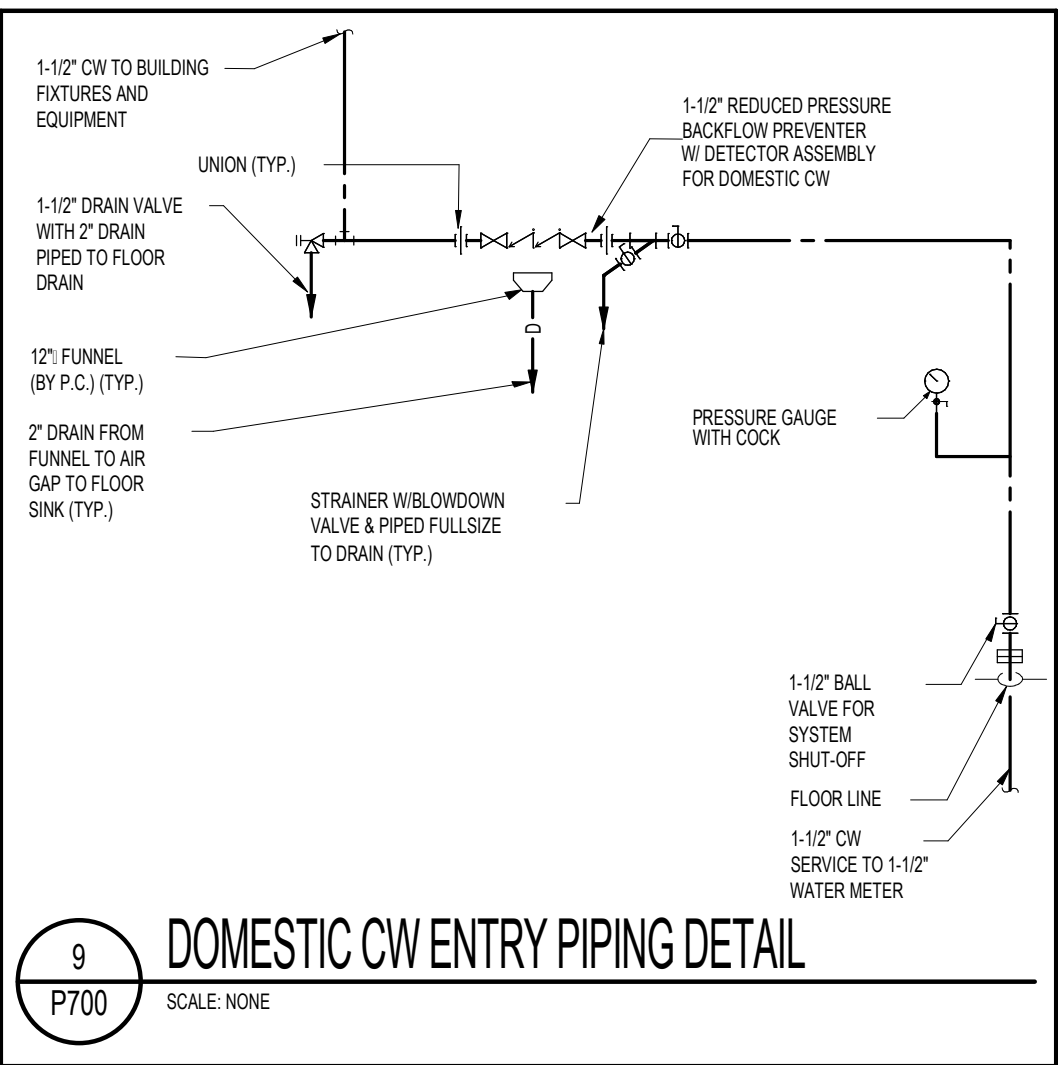
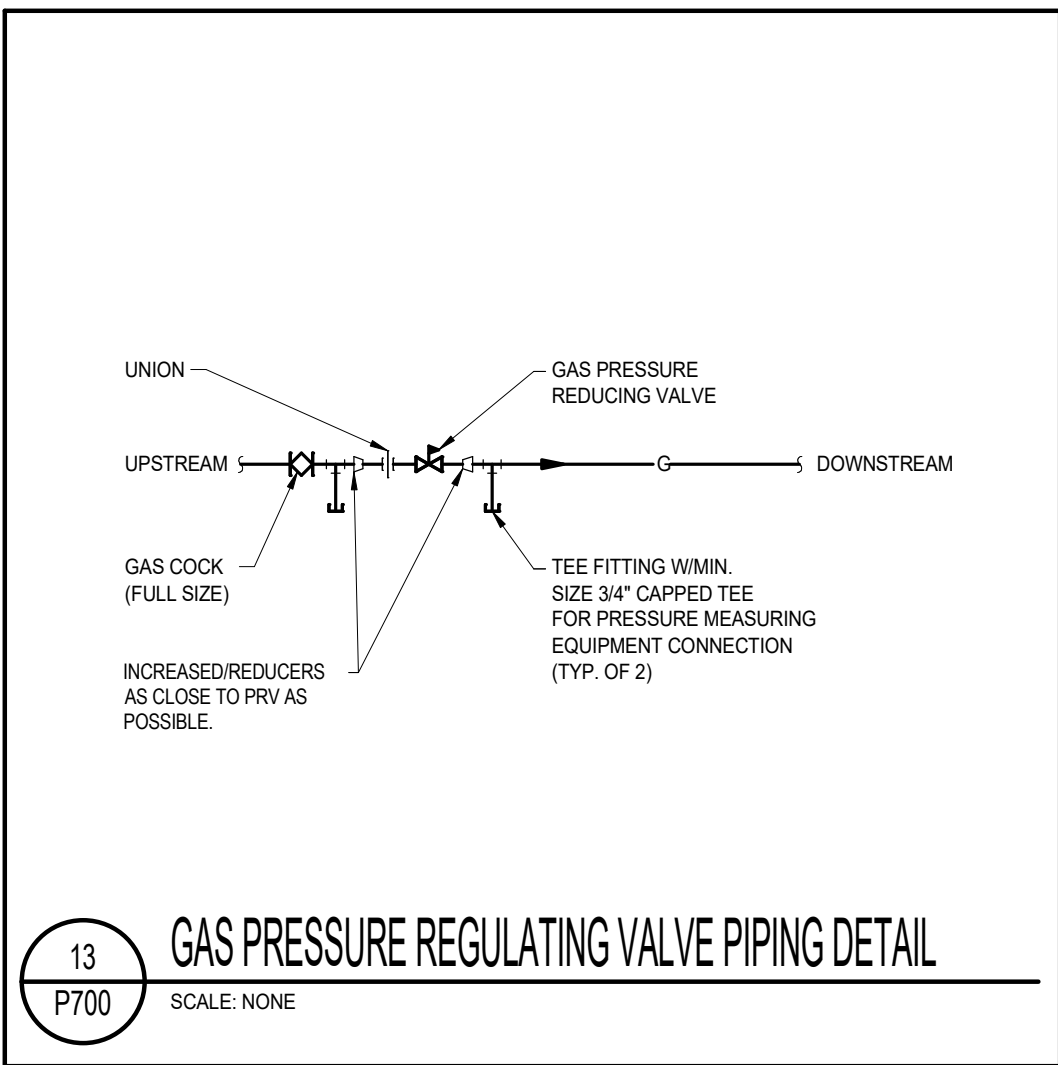
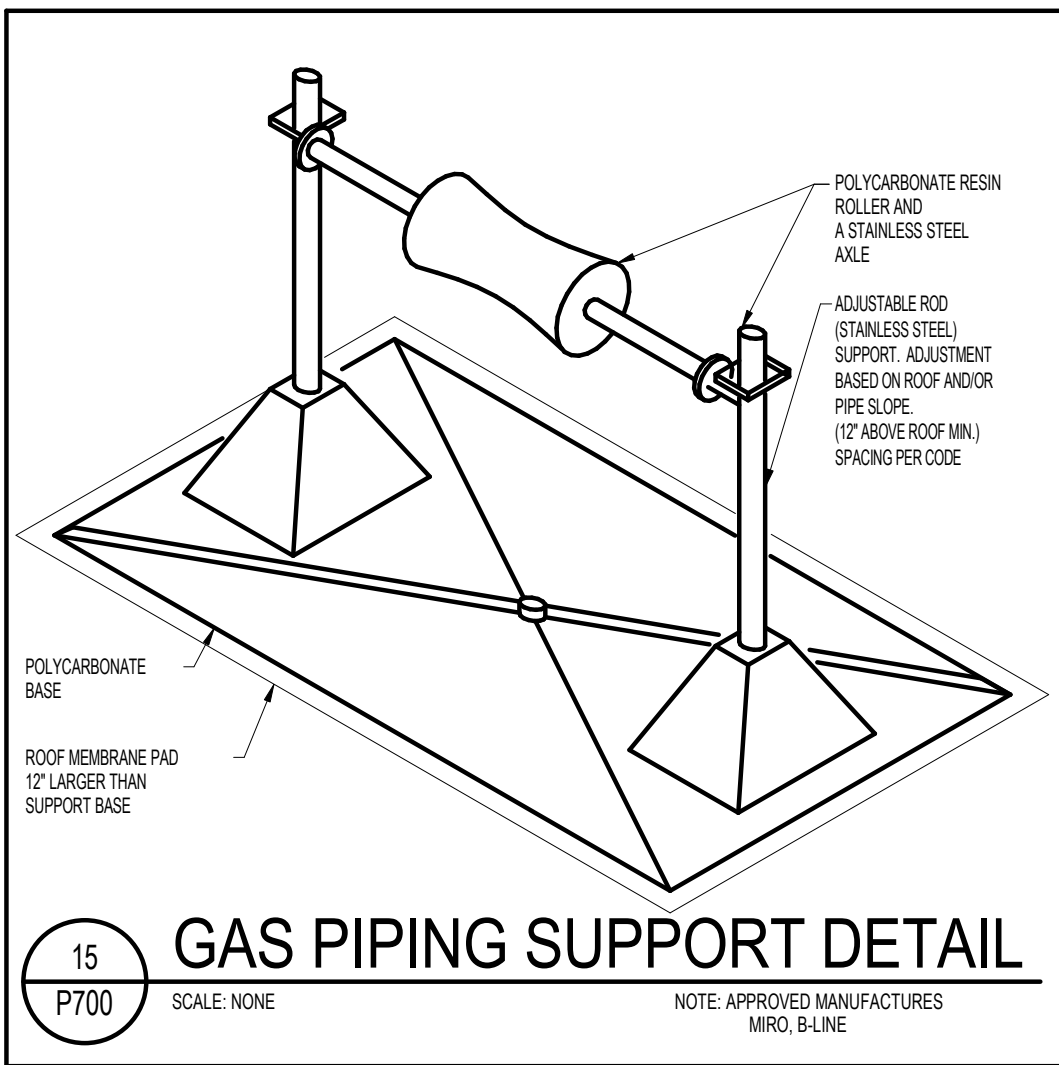
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Issue Date
6/26/2019
9/13/2019

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Rev. # Description Date

PLUMBING SCHEDULES

P
600



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Owner
City of Greeley

970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design Corporation
900 South Broadway Denver,
Colorado 80209
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Mechanical Engineer
The Ballard Group, Inc
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Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
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The Ballard Group, Inc.
Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
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GREELEY FIRE STATION #6
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PLUMBING DETAILS

P
700

TECHNOLOGY LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TELEPHONE TERMINAL CABINET		ELECTRIC HINGE
	TELEPHONE TERMINAL BACKBOARD		ELECTRIC DOOR LOCK
	TELEPHONE OR DATA OUTLET (2 CAT6 CABLES)		ELECTRIC DOOR STRIKE
	COMBINATION TELEPHONE/DATA OUTLET		GLASS BREAK DETECTOR
	TELEPHONE/DATA OUTLET, FLOOR MOUNTED		KEYPAD
	TELEPHONE/POWER POLE		MAGNETIC DOOR LOCK
	TELEVISION OUTLET		MOTION DETECTOR
	CLOCK OUTLET		IR=INFRARED, US=ULTRASOUND, IR/US=COMBINATION
	INTERCOM CALL - BUTTON		POWER SUPPLY
	"P" PAGING SYSTEM SPEAKER		SECURITY CONTROL PANEL
	"M" INDICATES MUSIC SYSTEM		INTERCOM STATION
	SECURITY CAMERA		MICROPHONE
	PROJECTOR		STATION
	WIRELESS ACCESS POINT		VOLUMN CONTROL
	CARD READER		DOOR CONTACT

POWER LEGEND

SYMBOL	MH	DESCRIPTION	SYMBOL	DESCRIPTION
		SINGLE RECEPTACLE		PLUG MOLD (MULTI-OUTLET ASSEMBLY)
		DUPLEX RECEPTACLE		WIREMOLD (SURFACE RACEWAY)
		DUPLEX RECEPTACLE ABOVE COUNTER		CONNECTION TO PRE-WIRED EQUIPMENT
		DOUBLE DUPLEX RECEPTACLE		CONDUIT CONCEALED
		DOUBLE DUPLEX RECEPTACLE ABOVE COUNTER		CONDUIT EXPOSED
		DUPLEX RECEPTACLE, HALF SWITCHED		CONDUIT, UNDERGROUND OR CONCEALED IN FLOOR
		DUPLEX RECEPTACLE, CEILING MOUNTED		CONDUIT TURNING DOWN
		DUPLEX RECEPTACLE, FLOOR MOUNTED		CONDUIT TURNING UP
		DOUBLE DUPLEX RECEPTACLE, FLOOR MOUNTED		CONDUIT CAPPED
		SPECIAL RECEPTACLE		GROUND BAR
		SPECIAL RECEPTACLE, FLOOR MOUNTED		MAIN SWITCHBOARD/DISTRIBUTION CENTER
		JUNCTION BOX, WALL OR CEILING MOUNTED		TRANSFORMER
		ELECTRICAL PANELBOARD OR OTHER CABINET AS NOTED		CURRENT TRANSFORMER
		THERMOSTAT		GENERATOR ANNUNCIATOR PANEL
		DISCONNECT SWITCH (NON-FUSED)		MOTOR
		DISCONNECT SWITCH (FUSED)		SHADING INDICATES EMERGENCY SYSTEM
		COMBINATION STARTER/DISCONNECT		TEXT INDICATES PANEL AND CIRCUIT DESIGNATION
		MOTOR STARTER		

LIGHTING LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TRACK LIGHTING		RECESSED FLUORESCENT LUMINAIRE, LAY-IN GRID CEILING, LOWERCASE SCRIPT INDICATES SWITCHING; UPPERCASE INDICATES LUMINAIRE
	EMERGENCY LIGHTING UNIT		RECESSED FLUORESCENT LUMINAIRE, FLANGED
	EXIT LIGHT, ARROWS AS INDICATED, FACES INDICATED BY SHADING		SURFACE MOUNTED LUMINAIRE
	SINGLE POLE SWITCH (SUBSCRIPT DENOTES SWITCHING)		SURFACE OR PENDANT MOUNTED STRIP
	TWO POLE SWITCH		SURFACE MOUNTED WALL LUMINAIRE
	THREE-WAY SWITCH		PENDANT MOUNTED LINEAR LUMINAIRE
	FOUR-WAY SWITCH		RECESSED DIRECT/INDIRECT LUMINAIRE
	KEY OPERATED SWITCH		UNDERCABINET LIGHTING
	MANUAL SWITCH, HORSEPOWER RATE		SURFACE MOUNTED CEILING LUMINAIRE
	DIMMER SWITCH		PENDANT MOUNTED LUMINAIRE
	LOW VOLTAGE SWITCH		SURFACE MOUNTED WALL LUMINAIRE
	THERMAL OVERLOAD SWITCH		RECESS MOUNTED WALL LUMINAIRE
	MOMENTARY CONTACT SWITCH		RECESS MOUNTED CEILING LUMINAIRE
	PHOTOCELL		RECESS MOUNTED CEILING LUMINAIRE-DIRECTIONAL
	TIME CLOCK		POLE MOUNTED LUMINAIRE
	OCCUPANCY SENSOR - CEILING MOUNTED		SPOT / FLOOD LIGHT
	IR=INFRARED, US=ULTRASONIC, DT=DUAL TECHNOLOGY		BOLLARD
	SHADING INDICATES CONNECTION TO EMERGENCY SYSTEM; LS INDICATE LIFE SAFETY CIRCUIT.		

ABBREVIATIONS LEGEND

A	AMPERES	FA	FIRE ALARM	NTS	NOT TO SCALE
AFF	ABOVE FINISHED FLOOR	G	GROUND	OC	ON CENTER
AFG	ABOVE FINISHED GRADE	GFI	GROUND FAULT INTERRUPTING	OFCl	OWNER FURNISHED, CONTRACTOR INSTALLED
ANN	ANNUNCIATOR	HOA	HAND OFF AUTOMATIC	OFOI	OWNER FURNISHED, OWNER INSTALLED
ARF	ABOVE RAISED FLOOR	IG	ISOLATED GROUND	PB	PULL BOX
ASSD	AIR SAMPLING SMOKE DETECTION	MAX	MAXIMUM	TP	TAMPER PROOF
ATS	AUTOMATIC TRANSFER SWITCH	MCB	MAIN CIRCUIT BREAKER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
BFG	BELOW FINISHED GRADE	MCC	MOTOR CONTROL CENTER	TYP	TYPICAL
C	CONDUIT	MDC	MAIN DISTRIBUTION CENTER	UF	UNDER FLOOR
CATV	CABLE TELEVISION	MIN	MINIMUM	UG	UNDER GROUND
CB	CIRCUIT BREAKER	MH	MOUNTING HEIGHT	UON	UNLESS OTHERWISE NOTED
CCTV	CLOSED CIRCUIT TELEVISION	MLO	MAIN LUGS ONLY	UPS	UNINTERRUPTABLE POWER SUPPLY
(E)	EXISTING	MTS	MANUAL TRANSFER SWITCH	V	VOLTS
EM	EMERGENCY	NC	NORMALLY CLOSED	VFD	VARIABLE FREQUENCY DRIVE
EP	EXPLOSION PROOF	NIC	NOT IN CONTRACT	WP	WEATHER PROOF
EPO	EMERGENCY POWER OFF	NL	NIGHT LIGHT	XFMR	TRANSFORMER
EWC	ELECTRIC WATER COOLER	NO	NORMALLY OPEN		

ONE-LINE DIAGRAM LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DISCONNECT SWITCH		PANELBOARD 'A'
	DISCONNECT SWITCH, FUSED		EM=ENERGY METER, PM=POWER METER, CM=CIRCUIT MONITOR
	CIRCUIT BREAKER: L=LONG TIME PICKUP, S=SHORTTIME PICKUP, I- INSTANEOUS TRIP, P=GROUND FAULT		VOLTMETER
	GROUND		AMMETER
	STEP DOWN TRANSFORMER, ## INDICATES KVA		ENGINE GENERATOR
	CURRENT TRANSFORMER		CONTACTOR/RELAY/CAPACITOR (AS NOTED)
	POTENTIAL TRANSFORMER		TRANSFER SWITCH - ATS=AUTOMATIC, MTS=MANUAL
	SERVICE ENTRANCE TRANSFORMER		GROUND FAULT INTERRUPTER
	METER		TRANSIENT VOLTAGE SURGE SUPPRESSER
	EQUIPMENT ENCLOSURE		SHUNT TRIP
	KIRK KEY INTERLOCK, SUBSCRIPT INDICATES INTERLOCKED GROUP		DRAW-OUT DEVICE
	ELECTRICAL INTERLOCK, SUBSCRIPT INDICATES INTERLOCKED GROUP		PLUG-IN DEVICE
	MECHANICAL INTERLOCK		ELECTRICALLY OPERATED
			SERVICE WEATHERHEAD

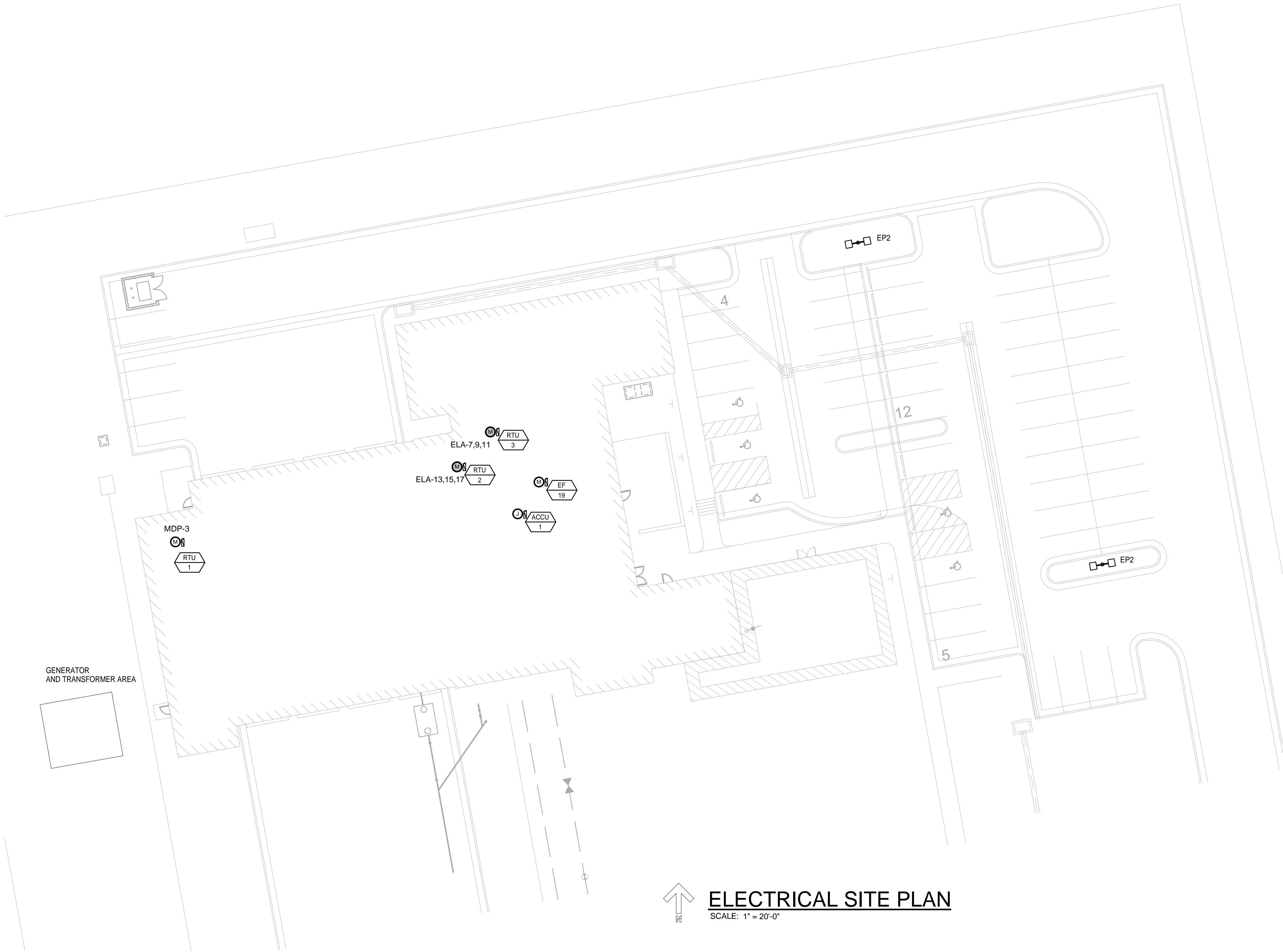
GENERAL NOTES:

- WORK INCLUDED IN THE CONTRACT IS DENOTED IN BOLD. EXISTING CONDITIONS TO REMAIN ARE DENOTED LIGHTLY.
- ALL ELECTRICAL WORK PERFORMED UNDER THIS CONTRACT SHALL CONFORM WITH LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE, UNIFORM BUILDING CODE OR INTERNATIONAL BUILDING CODE, LOCAL BUILDING AND FIRE DEPARTMENT REQUIREMENTS.
- ELECTRICAL CONTRACTOR SHALL FULLY COORDINATE WITH OWNER REPRESENTATIVES. PERFORM WORK IN ACCORDANCE WITH REQUIREMENTS OF OWNER REPRESENTATIVES. ELECTRICAL CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER OF ANY CHANGES REQUIRED BY THE BUILDING MANAGEMENT AND TENANT REPRESENTATIVES.
- THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF ELECTRICAL WORK. LOCATIONS ARE APPROXIMATE AND SHALL BE SUBJECT TO MINOR MODIFICATIONS AS DIRECTED BY THE GENERAL CONTRACTOR AND OWNER REPRESENTATIVES. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXACT FITTING OF ALL MATERIALS, EQUIPMENT, ETC., IN THE BUILDING AND TENANT SPACE. ALL DIMENSIONS SHALL BE VERIFIED ON THE JOB. ELECTRICAL CONTRACTOR SHALL CUT, CHANNEL CHASE, AND/OR DRILL FLOORS, WALLS, PARTITIONS, CEILINGS, OR OTHER SURFACES AS REQUIRED FOR INSTALLATION. UPPORT, ANCHORAGE, ETC. OF WORK. PROVIDE X-RAY OF FLOOR PRIOR TO CORE DRILLS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUBSEQUENT PATCHING WORK.
- A DETAILED WRITTEN METHOD OF PROCEDURE IS REQUIRED WHEN A CONSTRUCTION ACTIVITY OR AN OUTAGE AFFECTS THE SAFETY OF OCCUPANTS, TELEPHONE/DATA/FIRE ALARM EQUIPMENT OR COMPONENTS OF ANY SYSTEM WHICH SUPPORTS THIS EQUIPMENT OR ESSENTIALLY AFFECTS THE BUILDING MANAGEMENT, OPERATIONS OR SECURITY. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PRIOR TO SUBMITTING BIDS, THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING ELECTRICAL EQUIPMENT CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. FIELD VERIFY QUANTITIES OF EXISTING LIGHT FIXTURES, ELECTRICAL DEVICES, COMMUNICATION DEVICES, FIRE ALARM DEVICES, AND ELECTRICAL EQUIPMENT. NOTIFY THE ARCHITECT AND ENGINEER OF ANY EXISTING CONDITIONS, WHICH MODIFY THE SCOPE OF WORK AS SHOWN ON THE CONSTRUCTION DOCUMENTS. SUBMISSION OF A BID PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR MOBILIZATION, LABOR, EQUIPMENT, AND/OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.
- PROTECT STRUCTURE AND OWNER EQUIPMENT FROM DAMAGE. IMMEDIATELY REPLACE OR REPAIR, TO ORIGINAL CONDITION, DAMAGE CAUSED BY THE CONTRACTOR WHETHER EQUIPMENT APPEARS TO BE CURRENTLY IN USE OR NOT, UNLESS WRITTEN AUTHORIZATION FROM THE OWNER INDICATED OTHERWISE. PREPARE LISTING OF ALL EXISTING DAMAGED ITEMS AND SUBMIT TO OWNER PRIOR TO BEGINNING WORK.
- EXISTING INFORMATION SHOWN ON THE DRAWINGS HAS BEEN TAKEN FROM OWNER FURNISHED DRAWINGS AND/OR LIMITED FIELD OBSERVATIONS. CMO CONSULTING ENGINEERS, LLC IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THESE DRAWINGS.
- FIELD LOCATE EXISTING UNDERGROUND PUBLIC AND OWNER UTILITIES OF ALL TRADES AND BUILDING GROUNDING/LIGHTNING PROTECTION SYSTEMS PRIOR TO ANY EXCAVATION. REPLACE OR REPAIR DAMAGED UTILITIES AND GROUNDING/LIGHTNING PROTECTION SYSTEMS TO ORIGINAL CONDITION.
- INSTALL CONDUIT CONCEALED IN FINISHED AREAS UNLESS OTHERWISE NOTED.
- DO NOT ROUTE CONDUIT WITHIN STRUCTURAL OR TOPPING SLABS OF FLOORS UNLESS SPECIFICALLY NOTED OTHERWISE AND WRITTEN APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.
- FIRE SEAL ALL FIRE RATED WALL AND FLOOR PENETRATIONS. VERIFY RATED WALL LOCATIONS ON ARCHITECTURAL DRAWINGS.
- PROVIDE SEPARATE INSULATED GROUNDING CONDUCTOR IN ALL FEEDER, HOMERUN AND BRANCH CIRCUITS.
- REFER TO ARCHITECTURAL AND MECHANICAL EQUIPMENT DRAWINGS FOR EXACT LOCATIONS OF ELECTRICAL DEVICES AND LIGHT FIXTURES. DO NOT SCALE FROM THE ELECTRICAL PLANS. ADDITIONAL ELECTRICAL REQUIREMENTS ON ARCHITECTURAL PLANS, KITCHEN EQUIPMENT PLANS, AND MECHANICAL PLANS SHALL BE INCLUDED IN THE ELECTRICAL CONTRACTOR'S BID.
- WHERE REMODELING INTERFERES WITH EXISTING CIRCUITS AND EQUIPMENT WHICH ARE NOT TO BE REMOVED OR ARE OUTSIDE OF THE PROJECT AREA, SUCH CIRCUITS AND EQUIPMENT SHALL BE REWORKED AND RELOCATED AS REQUIRED TO COMPLETE THE PROJECT.
- MINIMUM WORKING CLEARANCES PER THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE SHALL BE PROVIDED AROUND AND IN FRONT OF ALL ELECTRICAL EQUIPMENT.
- ELECTRICAL CONTRACTOR SHALL MAINTAIN ON THE JOB AN UP TO DATE SET OF WORKING DRAWINGS, MARKED UP TO SHOW ELECTRICAL SYSTEMS AS INSTALLED. PROVIDE TENANT REPRESENTATIVES WITH ONE SET OF REPRODUCIBLES WITH "AS BUILT" PROJECT RECORD INFORMATION CLEARLY INDICATED.
- ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LOCAL FEES, PERMITS, AND SERVICES OF INSPECTION AUTHORITIES REQUIRED BY ELECTRICAL WORK FOR THIS ELECTRICAL CONSTRUCTION.
- PROVIDE TYPED, UPDATED, COMPLETE AND ACCURATE PANELBOARD CIRCUIT DIRECTORIES AT THE COMPLETION OF WORK. CLEAN EXPOSED PANELBOARD SURFACES AND CHECK TIGHTNESS OF ELECTRICAL CONNECTIONS. REPLACE DAMAGED CIRCUIT BREAKERS AS REQUIRED AND PROVIDE FILLER PLATES FOR VACANT SPACES.
- PROVIDE UPDATED LABELING OF ALL NEW AND RELOCATED ELECTRICAL EQUIPMENT IN SCOPE OF WORK INCLUDING, BUT NOT LIMITED TO, ENGINE GENERATOR SYSTEMS, TRANSFER SWITCHES, TRANSFORMERS, SWITCHGEAR, SWITCHBOARDS, PANELBOARDS, MOTOR CONTROL CENTERS, AND DISCONNECTS TO INDICATE THE AMPERE RATING, VOLTAGE RATINGS, PHASE, CONDUCTOR COLOR CODING WITHIN THE EQUIPMENT AND APPLICABLE AIC RATING.
- ALL NEW AND MODIFIED ELECTRICAL EQUIPMENT, SUCH AS SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES AND MOTOR CONTROL CENTERS, THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT PER NEC ARTICLE 110.16.

Mechanical Equipment Schedule															
Key	#	Item	HP	FLA	Load	Eq Load (VA)	Voltage	Feeders			Protection			Notes	
								Wire	Ground	Conduit	Breaker	Disconnect	Fuse		
ACCU	1	SPLIT SYSTEM	0	20 A		4160 VA	208V 1ph	2#10	#10G	3/4"	25 A	30 A			
B	1	BOILER	0	15 A		1800 VA	120V 1ph	2#12	#12G	3/4"	20 A	S			
B	2	BOILER	0	15 A		1800 VA	120V 1ph	2#12	#12G	3/4"	20 A	S			
B	3	BOILER	0	15 A		1800 VA	120V 1ph	2#12	#12G	3/4"	20 A	S			
CF	1	CEILING FAN	0	10 A		1200 VA	120V 1ph	2#12	#12G	3/4"	20 A	20 A			
CP	1	PUMP	0.175	0 A		667 VA	120V 1ph	2#12	#12G	3/4"	20 A	S			
CP	2	PUMP	0.175	0 A		667 VA	120V 1ph	2#12	#12G	3/4"	20 A	S			
CP	3	PUMP	0.175	0 A		667 VA	120V 1ph	2#12	#12G	3/4"	20 A	S			
CUH	1	CABINET UNIT HEATER	0.1	0 A		506 VA	120V 1ph	2#12	#12G	3/4"	20 A	S			
EF	1	EXHAUST FAN	0.75	0 A		1587 VA	120V 1ph	2#12	#12G	3/4"	25 A	20 A			
EF	2	EXHAUST FAN	0.75	0 A		1587 VA	120V 1ph	2#12	#12G	3/4"	25 A	20 A			
EF	3	EXHAUST FAN	0.1	0 A		506 VA	120V 1ph	2#12	#12G	3/4"	20 A	20 A			
EF	4	EXHAUST FAN	0.15	0 A		506 VA	120V 1ph	2#12	#12G	3/4"	20 A	20 A			
EF	5	EXHAUST FAN	0.15	0 A		506 VA	120V 1ph	2#12	#12G	3/4"	20 A	20 A			
EF	6	EXHAUST FAN	0.1	0 A		506 VA	120V 1ph	2#12	#12G	3/4"	20 A	20 A			
EF	7	EXHAUST FAN	0	0 A		0 VA	120V 1ph	2#12	#12G	3/4"	20 A	20 A			
EF	8	EXHAUST FAN	0	0 A		14 VA	120V 1ph	2#12	#12G	3/4"	20 A	20 A		WALL SWITCH	
EF	9	EXHAUST FAN	0	0 A		14 VA	120V 1ph	2#12	#12G	3/4"	20 A	20 A		WALL SWITCH	
EF	10	EXHAUST FAN	0	0 A		14 VA	120V 1ph	2#12	#12G	3/4"	20 A	20 A		WALL SWITCH	
EF	11	EXHAUST FAN	0	0 A		14 VA	120V 1ph	2#12	#12G	3/4"	20 A	20 A		WALL SWITCH	
EF	12	EXHAUST FAN	0	0 A		14 VA	120V 1ph	2#12	#12G	3/4"	20 A	20 A		WALL SWITCH	
EF	13	EXHAUST FAN	0	0 A		14 VA	120V 1ph	2#12	#12G	3/4"	20 A	20 A		WALL SWITCH	
EF	14	EXHAUST FAN	0	0 A		14 VA	120V 1ph	2#12	#12G	3/4"	20 A	20 A		WALL SWITCH	
EF	15	EXHAUST FAN	0	0 A		14 VA	120V 1ph	2#12	#12G	3/4"	20 A	20 A		WALL SWITCH	
EF	16	EXHAUST FAN	0	0 A		14 VA	120V 1ph	2#12	#12G	3/4"	20 A	20 A		WALL SWITCH	
EF	17	EXHAUST FAN	0	0 A		14 VA	120V 1ph	2#12	#12G	3/4"	20 A	20 A		WALL SWITCH	
EF	18	EXHAUST FAN	0	0 A		14 VA	120V 1ph	2#12	#12G	3/4"	20 A	20 A		WALL SWITCH	
EF	19	EXHAUST FAN	0.5	0 A		876 VA	208V 3ph	3#12	#12G	3/4"	15 A	30 A	6 A		
EF	20	EXHAUST FAN	0.5	0 A		876 VA	208V 3ph	3#12	#12G	3/4"	15 A	30 A	6 A		
P	1	PUMP	0	0 A		607 VA	208V 1ph	2#12	#12G	3/4"	20 A	S			
P	2	PUMP	0	0 A		607 VA	208V 1ph	2#12	#12G	3/4"	20 A	S			
RTU	1	ROOF TOP UNIT	0	47 A		16933 VA	208V 3ph	3#4	#10G	1-1/4"	60 A	60 A	60 A		
RTU	2	ROOF TOP UNIT	0	119 A		42872 VA	208V 3ph	3-1/0	#6G	2"	150 A	200 A	150 A		
RTU	3	ROOF TOP UNIT	0	47 A		16933 VA	208V 3ph	3#4	#10G	1-1/4"	60 A	60 A	60 A		
TF	1	EXHAUST FAN	0.25	0 A		667 VA	120V 1ph	2#12	#12G	3/4"	20 A	S			
UH	1	UNIT HEATER	0	0 A		0 VA	120V 1ph	2#12	#12G	3/4"	20 A	S			
UH	2	UNIT HEATER	0.5	0 A		1127 VA	120V 1ph	2#12	#12G	3/4"	20 A	S			
UH	3	UNIT HEATER	0.5	0 A		1127 VA	208V 1ph	2#12	#12G	3/4"	20 A	S			
UH	4	UNIT HEATER	0.33	0 A		832 VA	208V 1ph	2#12	#12G	3/4"	20 A	S			

Luminaire Schedule									
Type	Description	Lamp	Apparent Load	Manufacturer	Catalog #	Ballast Voltage	Finish	Mounting	Depth
A3	2'x4' RECESSED LED ARCHITECTURAL TROFFER. 10% DIMMING	LED	40 VA	LITHONIA LIGHTING	2ALL4 48L MVOLT EZ1 LP840	277 V	WHITE	RECESS	0' - 6"
D3	6" DIAMETER LED RECESSED DOWNLIGHT. HALL AND TLTS	LED 1500 LUMENS	19 VA	LITHONIA, COLUMBIA, METALUX	EVO 35/15 6WR MD LD	120 V	WHITE	RECESSED	0' - 6"
EP2	EXTERIOR LIGHT POLE - DOUBLE HEAD 25' POLE	LED	720 VA	LITHONIA	DSX2 LED 100C 1000 40K T3M	277 V	DK BRONZE	30" BASE	0' - 0"
EW1	WALL LIGHT - WET LOCATION LABEL - MOTION SENSOR AND PHOTOCEL	LED	30 VA	LITHONIA, COLUMBIA, METALUX	DSXW1 LED 10C 1000 40K T2M	120 V	DK BRONZE	SURFACE	
EW2	WALL LIGHT - WET LOCATION LABEL	LED	12 VA	LITHONIA	DXSW2 LED 30C 1000 40K T4M	277 V	STAINLESS STEEL	SURFACE	
R1	KITCHEN PENDANT - 14" DIAMETER	LED	72 VA	ARTEMIDE	NUR	120 V	POLISHED WHITE	PENDANT	
S4S	4' LINEAR LED STRIP LIGHT - STAIRWELL. OCC SENSOR	LED	28 VA	LITHONIA	WL4 30L LP840 NES7	120 V		SURFACE	
S4S	2'x4' SURFACE MOUNTED LED HIGH BAY TROFFER, LENSED, DIMMING WITH 360 MOTION SENSOR AND PHOTOCEL.	LED	149 VA	LITHONIA	IBH 1800ULM SD080 120 0Z1D 35K 80CRI	120 V		SURFACE	
ST4	4' LINEAR LED STRIP LIGHT WITH LENS.	LED	31 VA	LITHONIA, COLUMBIA, METALUX	ZLIN L48 3000LM FST MVOLT 40K 80CRI	120 V	WHITE	SURFACE	
ST8	8' LINEAR LED STRIP LIGHT	LED	62 VA	LITHONIA, COLUMBIA, METALUX	FEM LED	120 V	WHITE	SURFACE	
T2	2'X4' RECESSED GRID TROFFER.	LED	55 VA	LITHONIA, COLUMBIA, METALUX	2TL 4 60L SWL EZ1 LP840	120 V	WHITE	RECESSED	0' - 5"
UC	30" UNDERCABINET FIXTURE	LED	13 VA	JUNO	UPS30 30K	120 V	BLACK	SURFACE	
W1	36" X 4" TOILET ROOM ABOVE MIRROR FIXTURE	LED	25 VA	LITHONIA, COLUMBIA, METALUX	FMVCSL 36IN	120 V	BRUSHED NICKEL	SURFACE	
W2	WALL LIGHT	LED	25 VA	FAILSAFE	FW	120 V	WHITE	SURFACE	

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

POWER PLAN NOTES:

1. MAKE ALL FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT REQUIRING ELECTRICAL CONNECTION. THIS SHALL INCLUDE BUT NOT BE LIMITED TO ALL MECHANICAL AND OTHER EQUIPMENT INCLUDED IN THIS PROJECT.
2. PROVIDE FUSES SIZED PER EQUIPMENT MANUFACTURER'S REQUIREMENTS.
3. DISCONNECT SWITCH LOCATIONS ARE SHOWN DIAGRAMMATICALLY OR LISTED IN SCHEDULE AND SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS TO SUIT EQUIPMENT AND SPACE. DISCONNECT SWITCHES SHALL BE WITHIN SIGHT OF THE EQUIPMENT THEY SERVE AND MOUNTED AT 6'-3", MAXIMUM, TO TOP OF CABINET. MAINTAIN NEC WORK SPACE REQUIREMENTS.
4. RECEPTACLES INDICATED WITH 'AC' ARE TO BE MOUNTED 6" ABOVE COUNTER.
5. COORDINATE AND VERIFY EXACT MOUNTING LOCATIONS OF WALL AND FLOOR DEVICES WITH ARCHITECTURAL ELEVATIONS, AND ANY FURNITURE OR SPECIALTY EQUIPMENT SUPPLIER DRAWINGS PRIOR TO ROUGH-IN.
6. COORDINATE EXACT REQUIREMENTS AND LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
7. CIRCUITS MAY BE COMBINED INTO HOMERUNS OF UP TO SIX (6) CURRENT CARRYING CONDUCTORS, INCLUDING NEUTRALS, UNLESS OTHERWISE INDICATED. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V AND 277V SINGLE PHASE CIRCUIT. PROVIDE STRIPING FOR FULL LENGTH OF NEUTRAL CONDUCTOR INSULATION TO MATCH THE COLOR CODE OF THE ASSOCIATED PHASE CONDUCTOR. SEE SPECIFICATION FOR COLOR CODES.
8. GFCI RECEPTACLES ARE NOT GENERALLY SHOWN ON DRAWINGS. ALL RECEPTACLE OUTLETS LOCATED IN BAYS, GARAGE, TOILET ROOMS, SHOWER ROOMS, ROOFTOPS, OUTDOOR LOCATIONS, MECHANICAL ROOMS, WITHIN 6 FEET OF A SINK, OR OTHER WET LOCATIONS SHALL BE PROVIDED WITH GFCI PROTECTION PER NEC ARTICLE 210. ADDITIONAL GFCI PROTECTION TO BE PROVIDED AS INDICATED.

LIGHTING PLAN NOTES:

1. REFER TO ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS FOR EXACT MOUNTING LOCATIONS OF DEVICES AND LUMINAIRES.
2. COORDINATE LUMINAIRE LOCATIONS WITH MECHANICAL PIPING, DUCTWORK, ETC., TO AVOID CONFLICTS. SEE SPECIFICATIONS FOR COORDINATION REQUIREMENTS.
3. CIRCUITS MAY BE COMBINED INTO HOMERUNS OF UP TO SIX (6) CURRENT CARRYING CONDUCTORS, INCLUDING NEUTRALS, UNLESS OTHERWISE INDICATED. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V AND 277V SINGLE PHASE CIRCUIT. PROVIDE STRIPING FOR FULL LENGTH OF NEUTRAL CONDUCTOR INSULATION TO MATCH THE COLOR CODE OF THE ASSOCIATED PHASE CONDUCTOR. SEE SPECIFICATION FOR COLOR CODES.
4. FIELD COORDINATE EXACT LOCATION OF CEILING MOUNTED OCCUPANCY SENSORS PER MANUFACTURER'S INSTRUCTIONS. THE LOCATIONS OF THE OCCUPANCY SENSORS ON THE DRAWINGS ARE DIAGRAMMATIC.
5. 'EM' LIGHTING FOR EGRESS AND EXIT SIGNS IS TO BE UN-SWITCHED.
6. OCCUPANCY SENSORS SHALL BE WATTSTOPPER DSW-301 FOR WALL AND DT-355 FOR CEILING (OR EQUIVLANT) WITH DUAL TECHNOLOGY SET FOR 30 MINUTES.



NOT FOR CONSTRUCTION

Owner

City of Greeley
970.350.9177

Architect/Civil Engineer/ Structural

Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect

DHM Design Corporation
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer

The Ballard Group, Inc.
2525 South Wadsworth Blvd, Suite 200
Lakewood, Colorado 80227
303.988.4514

Electrical Engineer

CMO Consulting Engineers, LLC
11646 Sun Bear Trail
Golden, Colorado 80403
303.875.4037

City of Greeley

GREELEY FIRE STATION #6

10603 20TH ST, GREELEY COLORADO 80634

City of Greeley

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SEH Project

Checked By

Drawn By

150268

CAB

CAB

Project Status

30% DESIGN

75% DESIGN

Issue Date

6/26/2019

9/13/2019

Revision Issue

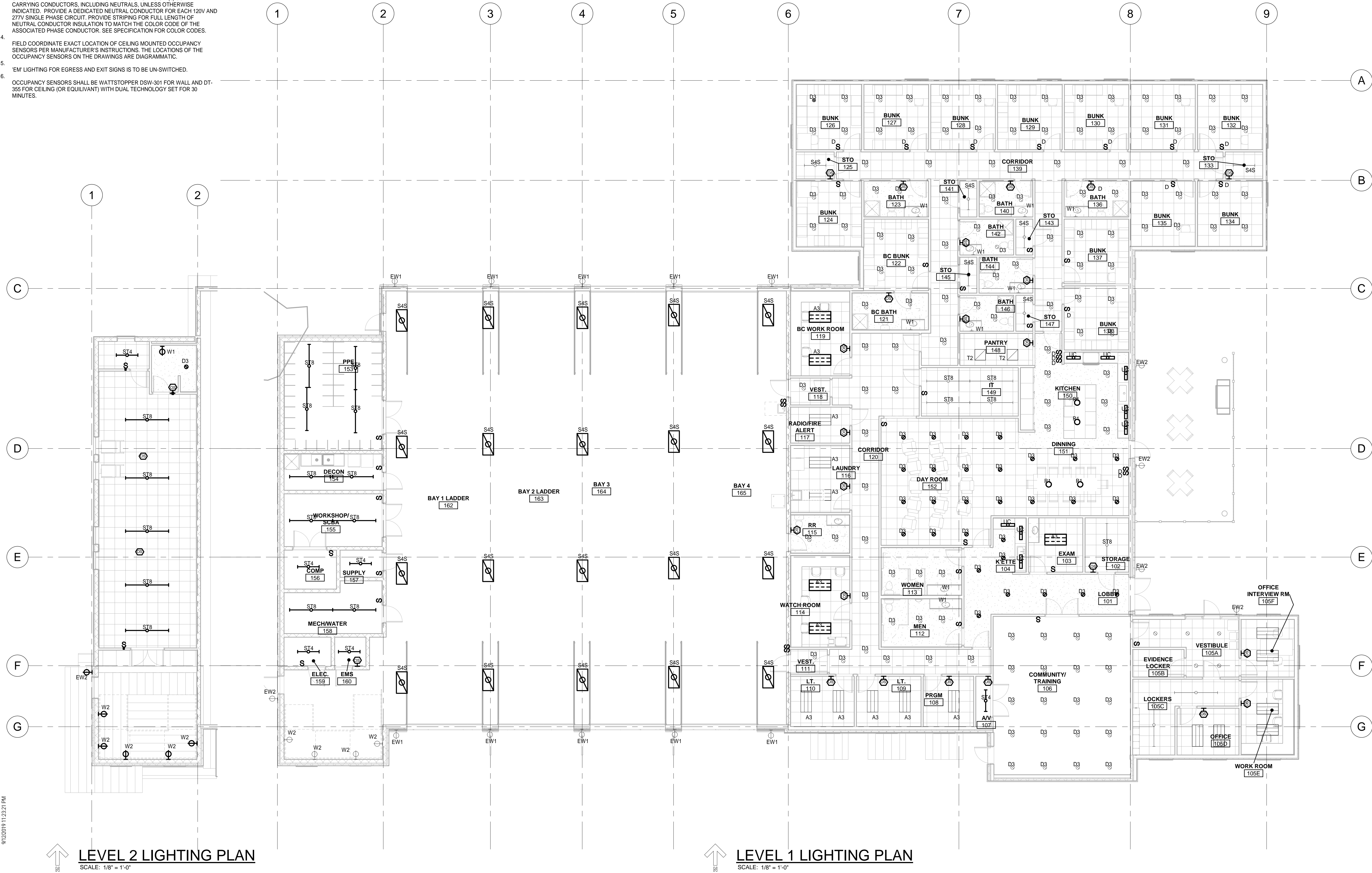
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ELECTRICAL SITE PLAN

E010

LIGHTING PLAN NOTES:

1. REFER TO ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS FOR EXACT MOUNTING LOCATIONS OF DEVICES AND LUMINAIRES.
2. COORDINATE LUMINAIRE LOCATIONS WITH MECHANICAL PIPING, DUCTWORK, ETC., TO AVOID CONFLICTS. SEE SPECIFICATIONS FOR COORDINATION REQUIREMENTS.
3. CIRCUITS MAY BE COMBINED INTO HOMERUNS OF UP TO SIX (6) CURRENT CARRYING CONDUCTORS, INCLUDING NEUTRALS, UNLESS OTHERWISE INDICATED. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V AND 277V SINGLE PHASE CIRCUIT. PROVIDE STRIPING FOR FULL LENGTH OF NEUTRAL CONDUCTOR INSULATION TO MATCH THE COLOR CODE OF THE ASSOCIATED PHASE CONDUCTOR. SEE SPECIFICATION FOR COLOR CODES.
4. FIELD COORDINATE EXACT LOCATION OF CEILING MOUNTED OCCUPANCY SENSORS PER MANUFACTURER'S INSTRUCTIONS. THE LOCATIONS OF THE OCCUPANCY SENSORS ON THE DRAWINGS ARE DIAGRAMMATIC.
5. 'EM' LIGHTING FOR EGRESS AND EXIT SIGNS IS TO BE UN-SWITCHED.
6. OCCUPANCY SENSORS SHALL BE WATTSTOPPER DSW-301 FOR WALL AND DT-355 FOR CEILING (OR EQUIVANT) WITH DUAL TECHNOLOGY SET FOR 30 MINUTES.



POWER PLAN NOTES:

1. MAKE ALL FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT REQUIRING ELECTRICAL CONNECTION. THIS SHALL INCLUDE BUT NOT BE LIMITED TO ALL MECHANICAL AND OTHER EQUIPMENT INCLUDED IN THIS PROJECT.
2. PROVIDE FUSES SIZED PER EQUIPMENT MANUFACTURER'S REQUIREMENTS.
3. DISCONNECT SWITCH LOCATIONS ARE SHOWN DIAGRAMMATICALLY OR LISTED IN SCHEDULE AND SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS TO SUIT EQUIPMENT AND SPACE. DISCONNECT SWITCHES SHALL BE WITHIN SIGHT OF THE EQUIPMENT THEY SERVE AND MOUNTED AT 6'-3", MAXIMUM, TO TOP OF CABINET. MAINTAIN NEC WORK SPACE REQUIREMENTS.
4. RECEPTACLES INDICATED WITH 'AC' ARE TO BE MOUNTED 6" ABOVE COUNTER.
5. COORDINATE AND VERIFY EXACT MOUNTING LOCATIONS OF WALL AND FLOOR DEVICES WITH ARCHITECTURAL ELEVATIONS, AND ANY FURNITURE OR SPECIALTY EQUIPMENT SUPPLIER DRAWINGS PRIOR TO ROUGH-IN.
6. COORDINATE EXACT REQUIREMENTS AND LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
7.

CIRCUITS MAY BE COMBINED INTO HOMERUNS OF UP TO SIX (6) CURRENT CARRYING CONDUCTORS, INCLUDING NEUTRALS, UNLESS OTHERWISE INDICATED. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V AND 277V SINGLE PHASE CIRCUIT. PROVIDE STRIPING FOR FULL LENGTH OF NEUTRAL CONDUCTOR INSULATION TO MATCH THE COLOR CODE OF THE ASSOCIATED PHASE CONDUCTOR. SEE SPECIFICATION FOR COLOR CODES.

GFCI RECEPTACLES ARE NOT GENERALLY SHOWN ON DRAWINGS. ALL RECEPTACLE OUTLETS LOCATED IN BAYS, GARAGE, TOILET ROOMS, SHOWER ROOMS, ROOFTOPS, OUTDOOR LOCATIONS, MECHANICAL ROOMS, WITHIN 6 FEET OF A SINK, OR OTHER WET LOCATIONS SHALL BE PROVIDED WITH GFCI PROTECTION PER NEC ARTICLE 210. ADDITIONAL GFCI PROTECTION TO BE PROVIDED AS INDICATED.

1 2 3 4 5 6 7 8 9

A B

C C

D D

E E

F F

G G

LEVEL 1 POWER PLAN

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

Owner
City of Greeley
970.350.9177

Architect/Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect
DHM Design Corporation
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc.
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303.988.4514

Electrical Engineer
CMO Consulting Engineers, LLC
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303.875.4037

City of Greeley
Greeley Fire Station #6
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SEH Project
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Drawn By

150268
CAB
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Project Status
30% DESIGN
75% DESIGN

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6/26/2019
9/13/2019

Revision Issue

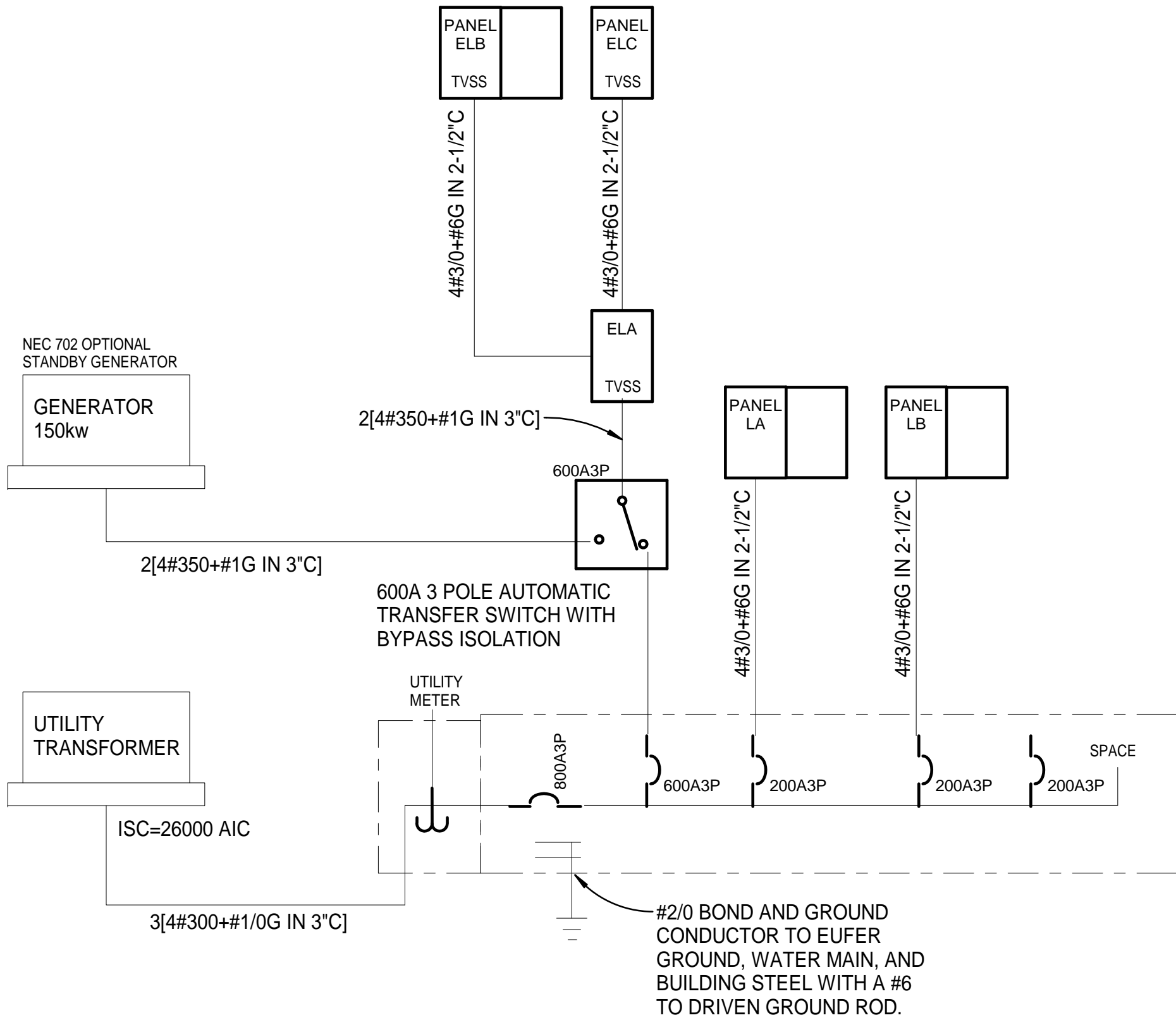
Rev. #	Description	Date
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POWER PLAN

New Panel LA													
Location: ELEC. 159					Voltage: 120/208 Wye					A.I.C. Rating:			
Supply From: MDP					Phase: 3					Mains Type: MLO			
Mounting: Surface					Wire: 4					Bus Rating: 225 A			
Enclosure: Type 1					Feed:								
Circuit Notes:													
Note	Circ...	Load	Type	Trip	Po...	A (VA)	B (VA)	C (VA)	Po...	Trip	Type	Load	Circ... Note
	1												2
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	81												82
	83												84
Total Load:						0 VA	0 VA	0 VA					
Total Amps:						0 A	0 A	0 A					
Phase Balance:						% A-B	% B-C	% C-A					
Load Type						Connected...	Demand Factor	Demand Load	Panel Totals				
L Lighting						0 VA	0%	0 VA	Power Factor:				
R Receptacle						0 VA	0%	0 VA					
M Motor						0 VA	0%	0 VA	Total Connected Load: 0 VA				
C Continuous						0 VA	0%	0 VA	Total Connected Current: 0 A				
G General						0 VA	0%	0 VA					
K Kitchen						0 VA	0%	0 VA	Total Demand Load: 0 VA				
E Existing						0 VA	0%	0 VA	Total Demand Current: 0 A				
O Other						0 VA	0%	0 VA					
General Notes:												Breaker Accessories	
												* = GFI	
												** = Shunt Trip	

New Panel ELA														
Location: ELEC. 159						Voltage: 120/208 Wye				A.I.C. Rating:				
Supply From: MDP						Phase: 3				Mains Type: MLO				
Mounting: Surface						Wire: 4				Bus Rating: 600 A				
Enclosure: Type 1						Feed:								
Circuit Notes:														
Note	Circ...	Load	Type	Trip	Po...	A (VA)	B (VA)	C (VA)	Po...	Trip	Type	Load	Circ...	Note
--	1	ELB	G	200 A	3	0 920				2 20 A	G	OH DOOR SW	2	
--	3	--	--	--	--		0 920			-- --	--	--	4	--
--	5	--	--	--	--			0 920		2 20 A	G	OH DOOR SW	6	
--	7	RTU-3	M	60 A	3	5644 920				-- --	--	--	8	--
--	9	--	--	--	--		5644 920			2 20 A	G	OH DOOR SE	10	
--	11	--	--	--	--			5644 920		-- --	--	--	12	--
--	13	RTU-2	M	150 A	3	14291 920				2 20 A	G	OH DOOR SE	14	
--	15	--	--	--	--		14291 920			-- --	--	--	16	--
--	17	--	--	--	--			14291		-- --	--	--	18	
--	19	ELC	G	200 A	3	0							20	
--	21	--	--	--	--		0						22	
--	23	--	--	--	--			0					24	
	25												26	
	27												28	
	29												30	
	31												32	
	33												34	
	35												36	
	37												38	
	39												40	
	41												42	
Total Load:						22695 VA	22695 VA	21775 VA						
Total Amps:						190 A	190 A	181 A						
Phase Balance:						0 % A-B	5 % B-C	5 % C-A						
Load Type						Connected...	Demand Factor	Demand Load	Panel Totals					
L Lighting						0 VA	0%	0 VA	Power Factor: 1					
R Receptacle						0 VA	0%	0 VA						
M Motor						59804 VA	103%	61498 VA	Total Connected Load: 67164 VA					
C Continuous						0 VA	0%	0 VA	Total Connected Current: 186 A					
G General						7360 VA	100%	7360 VA						
K Kitchen						0 VA	0%	0 VA	Total Demand Load: 68858 VA					
E Existing						0 VA	0%	0 VA	Total Demand Current: 191 A					
O Other						0 VA	0%	0 VA						
General Notes:												Breaker Accessories		
												* = GFI		
												** = Shunt Trip		

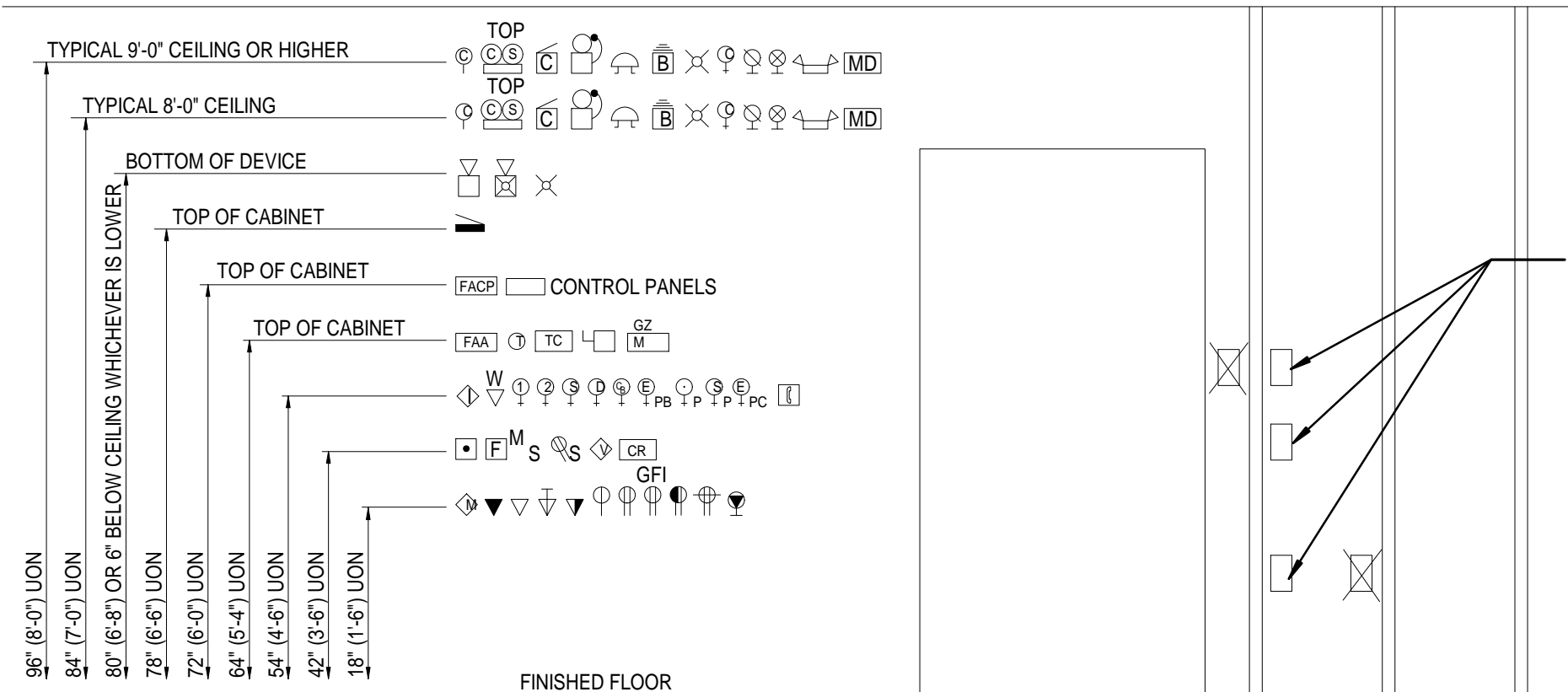
Switchboard MDP						
Location:		Volts: 120/208 Wye		A.I.C. Rating:		
Supply From:		Phases: 3		Mains Type: MCB		
Mounting:		Wires: 4		Bus Rating:		
		Feed:		MCB Rating: 600 A		
Circuit Notes:						
Load		Type	A	B	C	Note
LA		G	0 VA	0 VA	0 VA	
ELA VIA TRANSFER SWITCH		G; M	22695 VA	22695 VA	21775 VA	
RTU-1		M	5644 VA	5644 VA	5644 VA	
LB		G	0 VA	0 VA	0 VA	
			28339 VA	28339 VA	27419 VA	
			237 A	237 A	228 A	
			0	4	4	
			% A-B	% B-C	% C-A	
Load Type		Connected Load	Demand Factor	Demand Load	Switchboard Totals	
L Lighting		0 VA	0%	0 VA	Power Factor:	
R Receptacle		0 VA	0%	0 VA		
M Motor		76737 VA	104%	80123 VA	Total Connected Load: 84097 VA	
C Continuous		0 VA	0%	0 VA	Total Connected Current: 233 A	
G General		7360 VA	100%	7360 VA		
K Kitchen		0 VA	0%	0 VA	Total Demand Load: 87483 VA	
E Existing		0 VA	0%	0 VA	Total Demand Current: 243 A	
O Other		0 VA	0%	0 VA		
General Notes:						Breaker Accessories
						* = GFI
						** = Shunt Trip



New Panel ELA															
Location: ELEC. 159						Voltage: 120/208 Wye				A.I.C. Rating:					
Supply From: MDP						Phase: 3				Mains Type: MLO					
Mounting: Surface						Wire: 4				Bus Rating: 600 A					
Enclosure: Type 1						Feed:									
Circuit Notes:															
Note	Circ...	Load	Type	Trip	Po...	A (VA)	B (VA)	C (VA)	Po...	Trip	Type	Load	Circ...	Note	
--	1	ELB	G	200 A	3	0	920			2	20 A	G	OH DOOR SW	2	
--	3	--	--	--	--		0	920		--	--	--	4	--	
--	5	--	--	--	--			0	920	2	20 A	G	OH DOOR SW	6	
--	7	RTU-3	M	60 A	3	5644	920			--	--	--	8	--	
--	9	--	--	--	--		5644	920		2	20 A	G	OH DOOR SE	10	
--	11	--	--	--	--			5644	920	--	--	--	12	--	
--	13	RTU-2	M	150 A	3	14291	920			2	20 A	G	OH DOOR SE	14	
--	15	--	--	--	--		14291	920		--	--	--	16	--	
--	17	--	--	--	--			14291		--	--	--	18	--	
--	19	ELC	G	200 A	3	0							20	--	
--	21	--	--	--	--		0						22	--	
--	23	--	--	--	--			0					24	--	
--	25	--	--	--	--								26	--	
--	27	--	--	--	--								28	--	
--	29	--	--	--	--								30	--	
--	31	--	--	--	--								32	--	
--	33	--	--	--	--								34	--	
--	35	--	--	--	--								36	--	
--	37	--	--	--	--								38	--	
--	39	--	--	--	--								40	--	
--	41	--	--	--	--								42	--	
Total Load:						22695 VA	22695 VA	21775 VA							
Total Amps:						190 A	190 A	181 A							
Phase Balance:						0 % A-B	5 % B-C	5 % C-A							
Load Type						Connected...	Demand Factor	Demand Load	Panel Totals						
L Lighting						0 VA	0%	0 VA	Power Factor: 1						
R Receptacle						0 VA	0%	0 VA							
M Motor						59804 VA	103%	61498 VA	Total Connected Load: 67164 VA						
C Continuous						0 VA	0%	0 VA	Total Connected Current: 186 A						
G General						7360 VA	100%	7360 VA							
K Kitchen						0 VA	0%	0 VA	Total Demand Load: 68858 VA						
E Existing						0 VA	0%	0 VA	Total Demand Current: 191 A						
O Other						0 VA	0%	0 VA							
General Notes:													Breaker Accessories		
													* = GFI		
													** = Shunt Trip		

New Panel ELB															
Location: CORRIDOR 120						Voltage: 120/208 Wye						A.I.C. Rating:			
Supply From: ELA						Phase: 3						Mains Type: MLO			
Mounting: Surface						Wire: 4						Bus Rating: 225 A			
Enclosure: Type 1						Feed:									
Circuit Notes:															
Note	Circ...	Load	Type	Trip	Po...	A (VA)	B (VA)	C (VA)	Po...	Trip	Type	Load	Circ...	Note	
	1												2		
	3												4		
	5												6		
	7												8		
	9												10		
	11												12		
	13												14		
	15												16		
	17												18		
	19												20		
	21												22		
	23												24		
	25												26		
	27												28		
	29												30		
	31												32		
	33												34		
	35												36		
	37												38		
	39												40		
	41												42		
	43												44		
	45												46		
	47												48		
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	63												64		
	65												66		
	67												68		
	69												70		
	71												72		
	73												74		
	75												76		
	77												78		
	79												80		
	81												82		
	83												84		
Total Load:						0 VA	0 VA	0 VA							
Total Amps:						0 A	0 A	0 A							
Phase Balance:						% A-B	% B-C	% C-A							
Load Type						Connected...	Demand Factor	Demand Load	Panel Totals						
L Lighting						0 VA	0%	0 VA	Power Factor:						
R Receptacle						0 VA	0%	0 VA							
M Motor						0 VA	0%	0 VA	Total Connected Load: 0 VA						
C Continuous						0 VA	0%	0 VA	Total Connected Current: 0 A						
G General						0 VA	0%	0 VA							
K Kitchen						0 VA	0%	0 VA	Total Demand Load: 0 VA						
E Existing						0 VA	0%	0 VA	Total Demand Current: 0 A						
O Other						0 VA	0%	0 VA							
General Notes:														Breaker Accessories	
														* = GFI	
														** = Shunt Trip	

New Panel ELC															
Location: LOCKERS 105C						Voltage: 120/208 Wye					A.I.C. Rating:				
Supply From: ELA						Phase: 3					Mains Type: MLO				
Mounting: Surface						Wire: 4					Bus Rating: 225 A				
Enclosure: Type 1						Feed:									
Circuit Notes:															
Note	Circ...	Load	Type	Trip	Po...	A (VA)	B (VA)	C (VA)	Po...	Trip	Type	Load	Circ...	Note	
	1												2		
	3												4		
	5												6		
	7												8		
	9												10		
	11												12		
	13												14		
	15												16		
	17												18		
	19												20		
	21												22		
	23												24		
	25												26		
	27												28		
	29												30		
	31												32		
	33												34		
	35												36		
	37												38		
	39												40		
	41												42		
Total Load:						0 VA	0 VA	0 VA							
Total Amps:						0 A	0 A	0 A							
Phase Balance:						% A-B	% B-C	% C-A							
Load Type						Connected...	Demand Factor	Demand Load	Panel Totals						
L Lighting						0 VA	0%	0 VA	Power Factor:						
R Receptacle						0 VA	0%	0 VA							
M Motor						0 VA	0%	0 VA	Total Connected Load: 0 VA						
C Continuous						0 VA	0%	0 VA	Total Connected Current: 0 A						
G General						0 VA	0%	0 VA							
K Kitchen						0 VA	0%	0 VA	Total Demand Load: 0 VA						
E Existing						0 VA	0%	0 VA	Total Demand Current: 0 A						
O Other						0 VA	0%	0 VA							
General Notes:													Breaker Accessories		
													* = GFI		
													** = Shunt Trip		



TYPICAL DEVICE MOUNTING HEIGHTS

NO SCALE

NOTES:

- HEIGHTS SHOWN ARE TYPICAL TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
- WHERE EVER DEVICES ARE INDICATED TO BE ABOVE DOORS, DEVICE SHALL BE CENTERED BETWEEN TOP OF DOOR TRIM AND CEILING LINE.
- MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE.

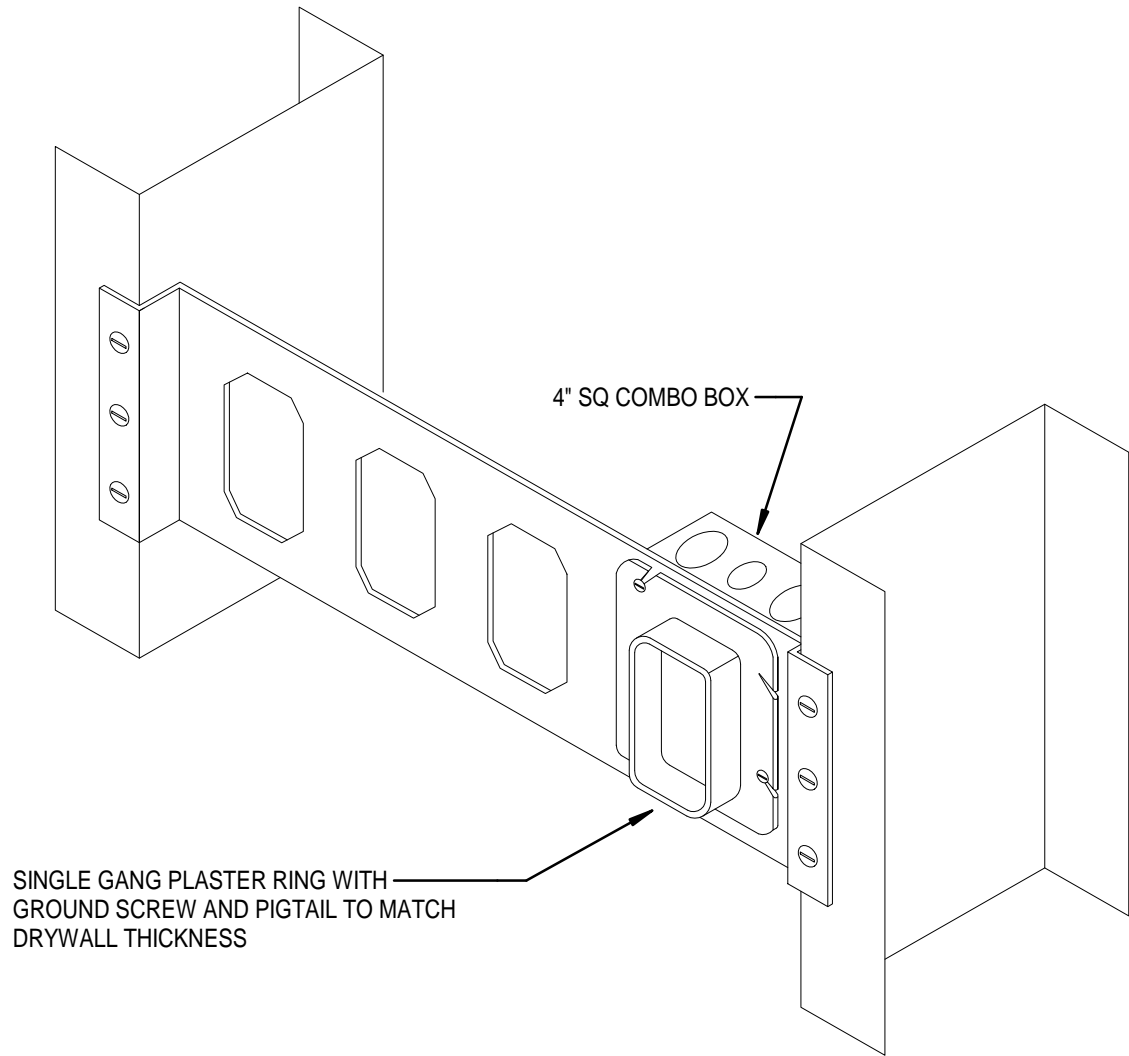
WARNING	
Arc Flash and Shock Hazard	
Appropriate PPE Required	
11 in 0.55 cal/cm ²	Flash Risk Boundary Flash Risk at: 18 in
PPE	Shirt & pants or overall, Nonmelting (ASTM F1506) or Untreated Fiber Shock Risk when cover is removed Glove Class Limited Approach Restricted Approach Minimum Arc Rating
480 VAC 00 42 in 12 in N/A	
Bus: Panel A Prot: CB Panel A	

ARC FLASH NAMEPLATE DETAIL

SCALE: NONE

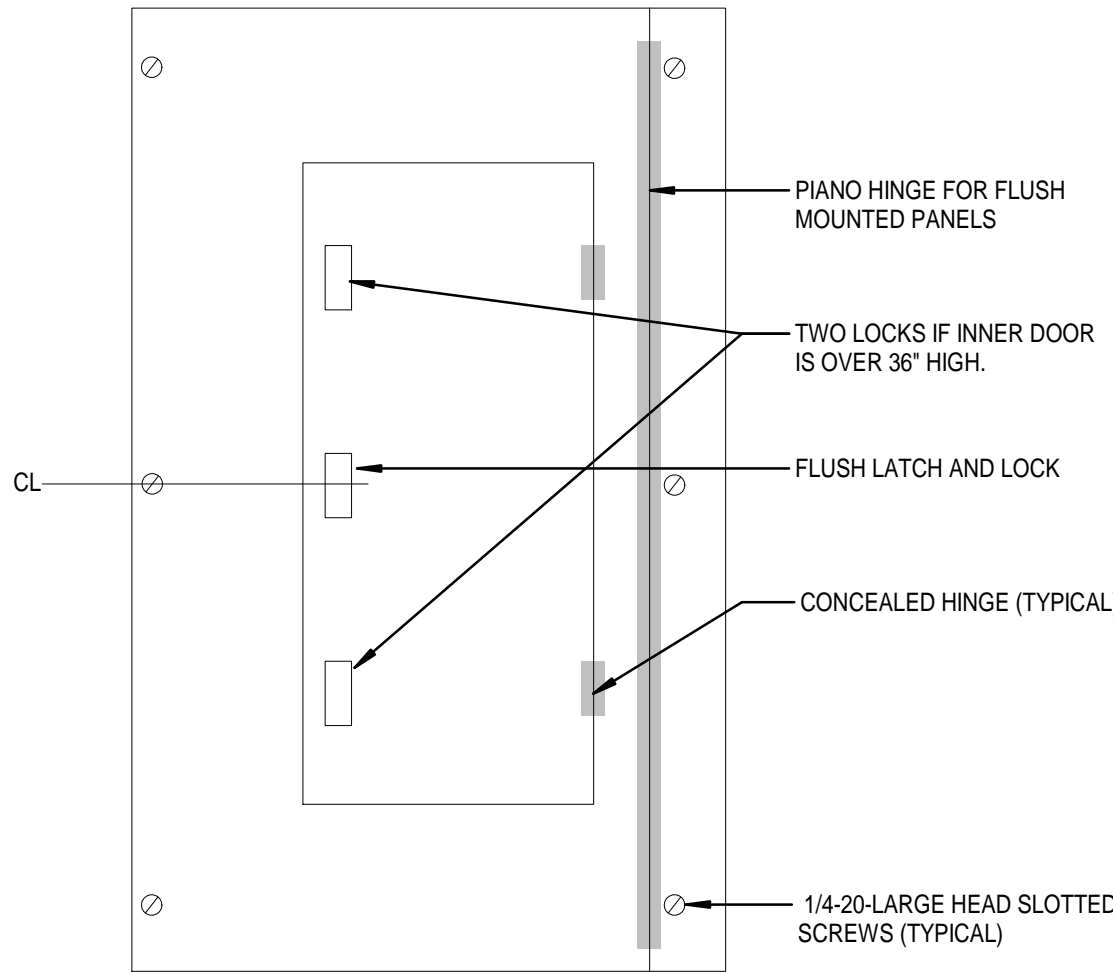
NOTES:

- SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.
- REWORD NAMEPLATE FOR FIELD CONDITIONS.



RECEPTACLE BOX SUPPORT DETAIL

NO SCALE

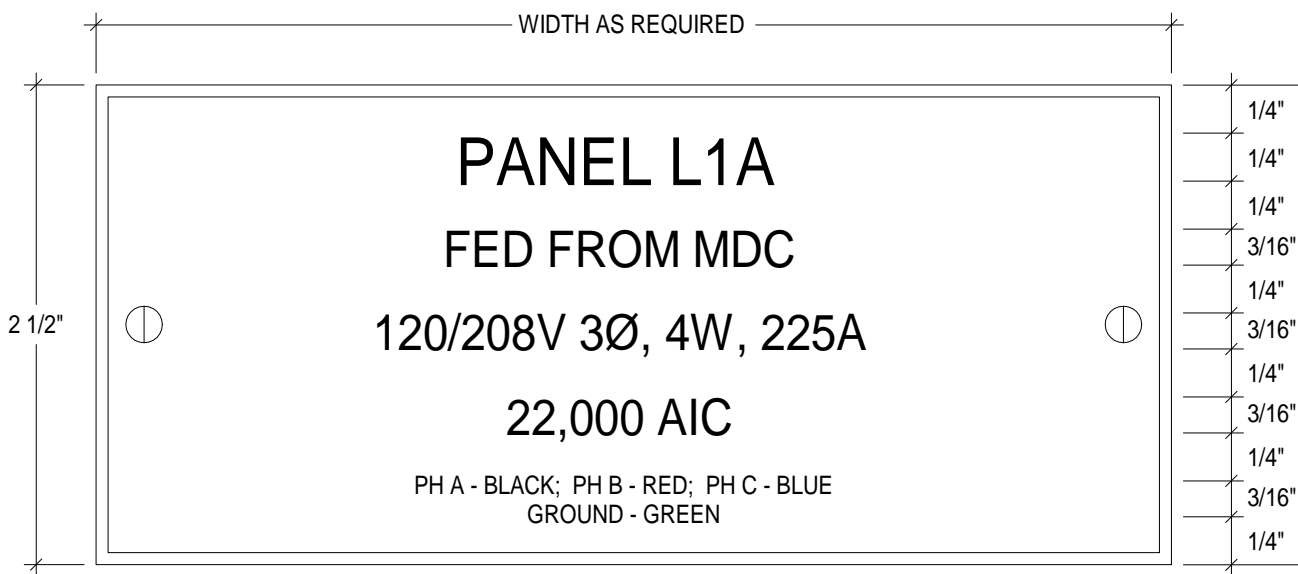


HINGED TRIM TO BOX PANEL FRONT

NO SCALE

NOTES:

- ALL BOLTS SHALL HAVE LARGE (3/8") ROUND HEAD. NO WASHERS ALLOWED
- TYPICAL FOR ALL 120/208V BRANCH PANELBOARDS.

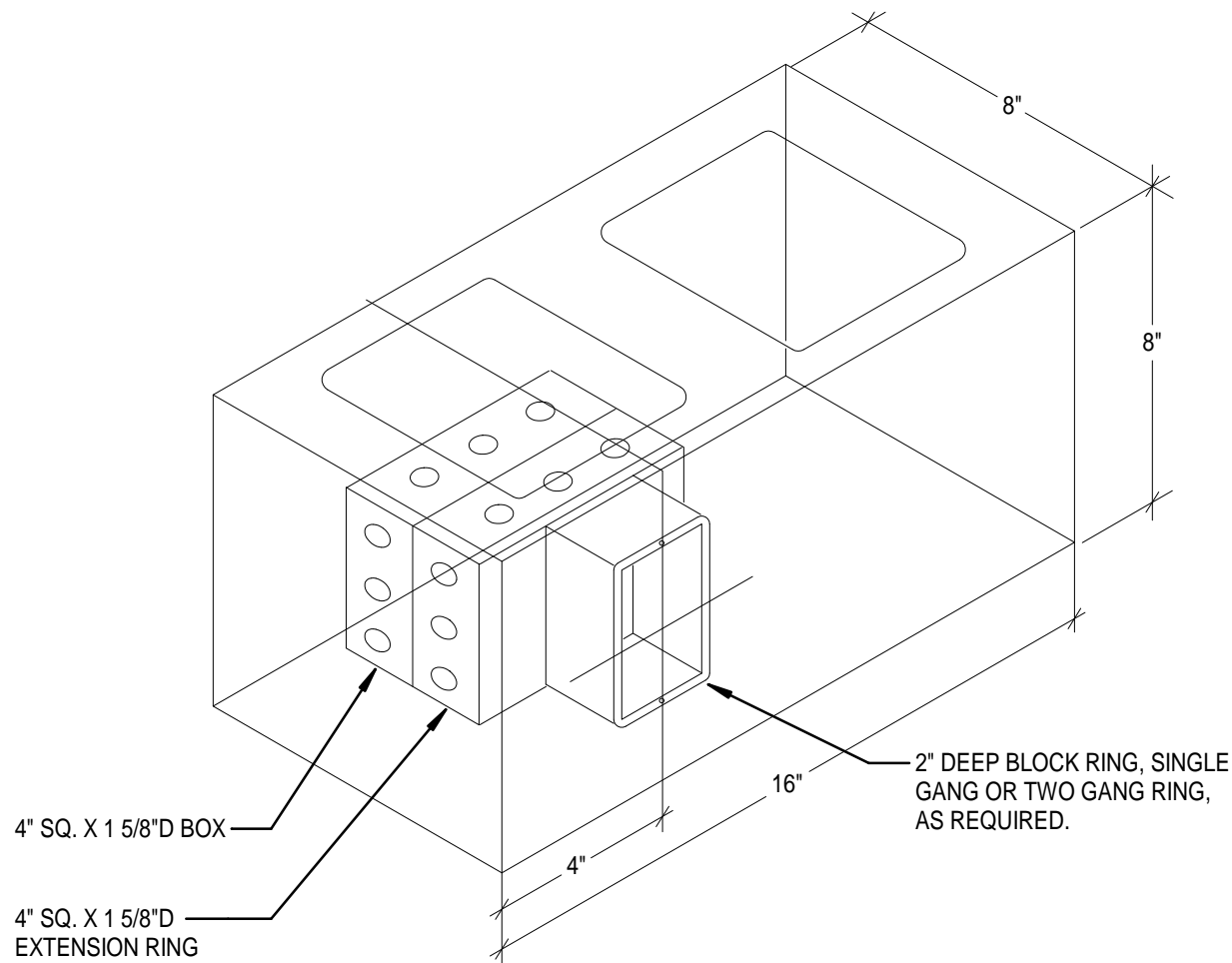


SUB-DISTRIBUTION CENTER AND BRANCH PANELBOARD NAMEPLATE DETAIL

SCALE: FULL

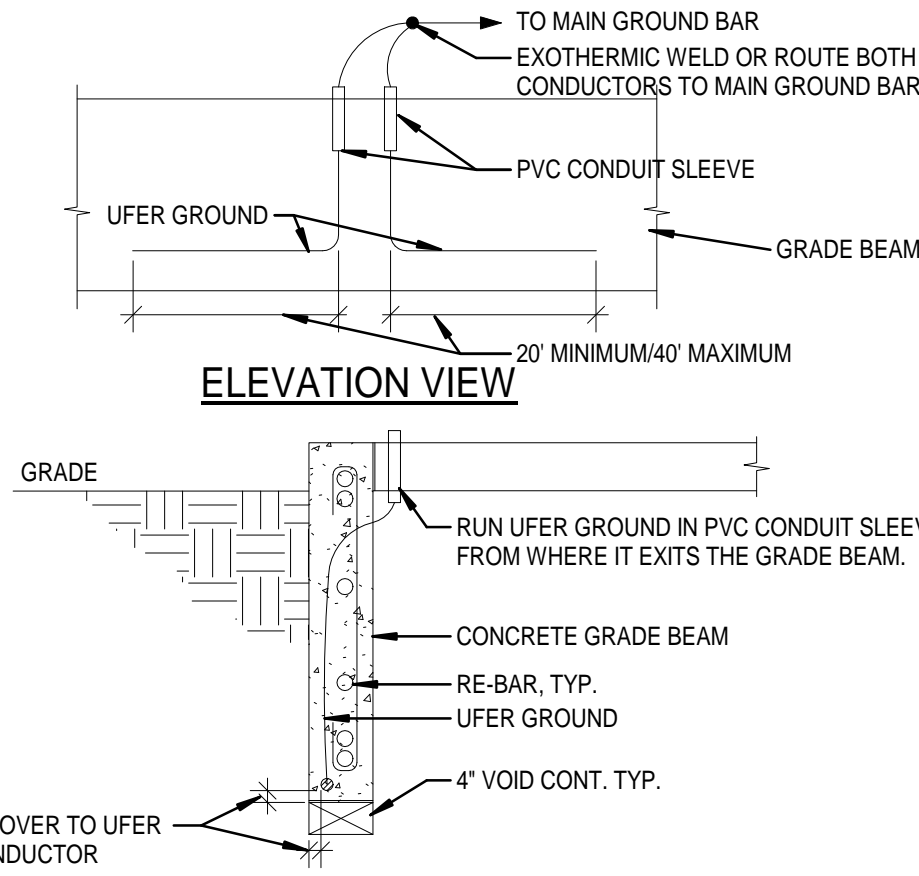
NOTES:

- SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.
- REWORD NAMEPLATE FOR FIELD CONDITIONS.
- AMP RATING SHALL INDICATE BUS RATINGS.



BOX DETAIL FOR BLOCK WALL INSTALLATION

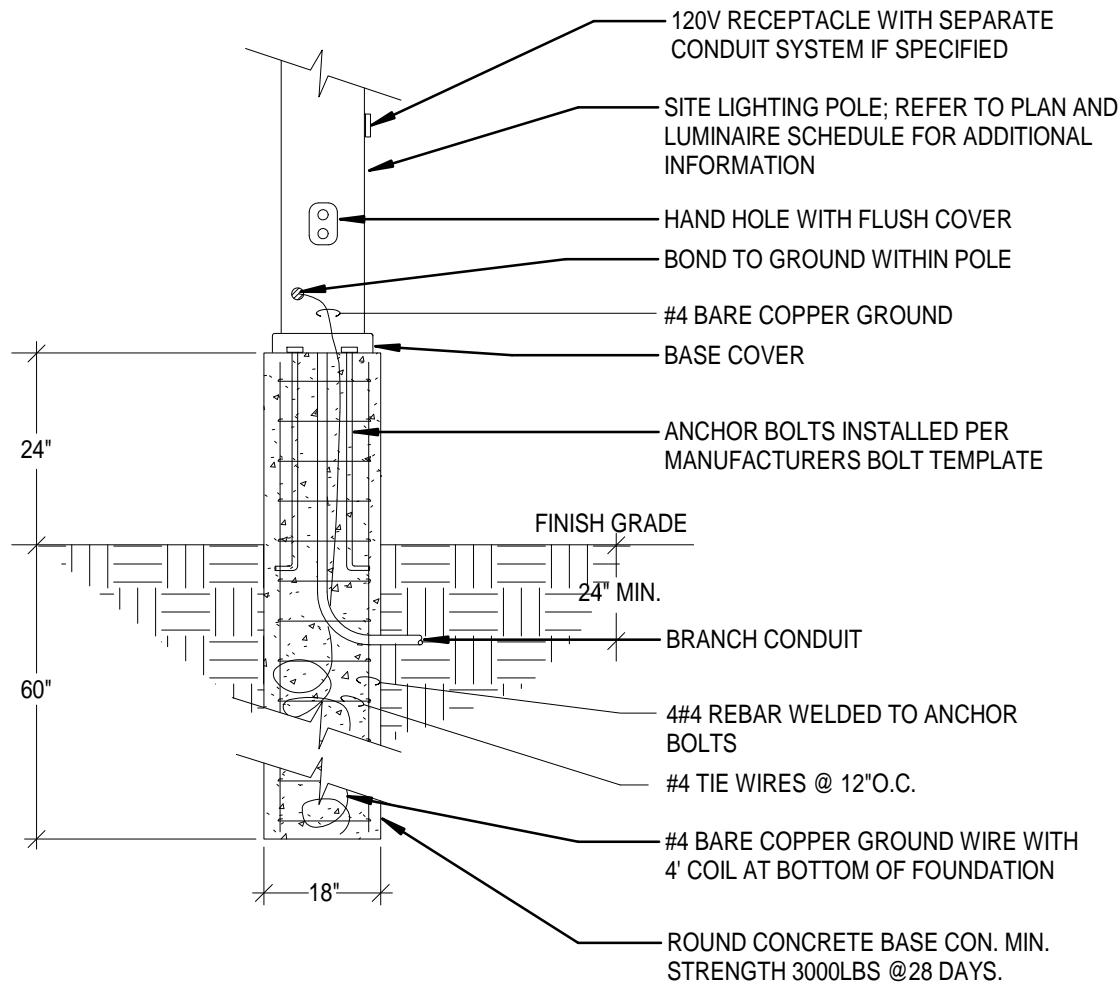
SCALE: 3"=1'-0"



- NOTES:
1. INSTALL 20' MINIMUM/40' MAXIMUM UFER GROUND CONDUCTOR IN EACH DIRECTION. PROVIDE BARE COPPER CONDUCTOR SIZED PER NEC TABLE 250-94 OR AS INDICATED ON THE DRAWINGS (#4 AWG SHALL BE THE MINIMUM SIZE).
 2. ROUTE UFER GROUND CONDUCTOR, THROUGH PVC CONDUIT SLEEVE.
 3. AVOID CONTACT WITH RE-BAR IN CONCRETE. DO NOT TIE DIRECTLY TO RE-BAR, USE SEPARATOR APPROVED BY STRUCTURAL.
 4. COORDINATE ACTUAL UFER GROUND CONDUCTOR INSTALLATION WITH STRUCTURAL.

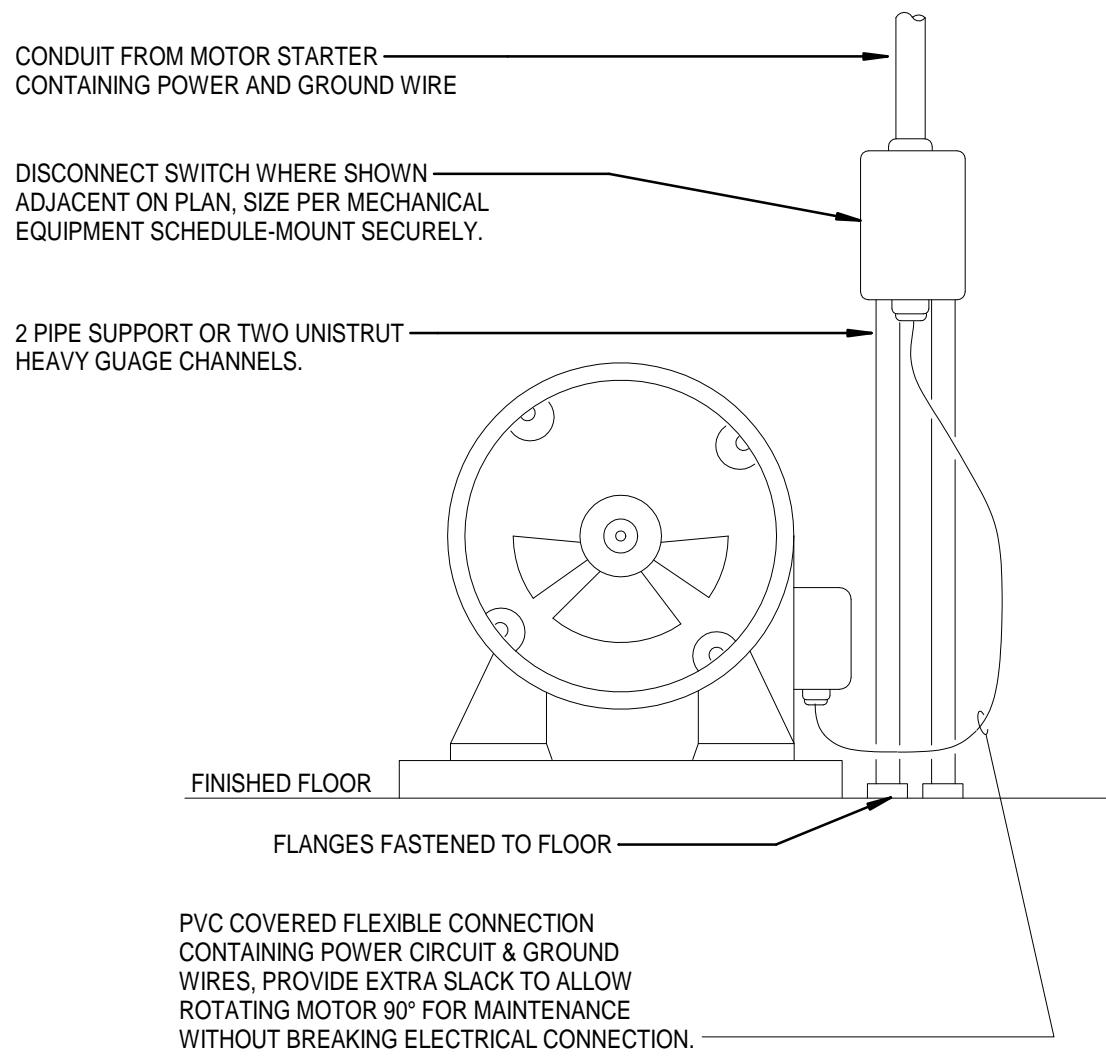
UFER GROUND DETAIL

NO SCALE



POLE BASE DETAIL - RAISED

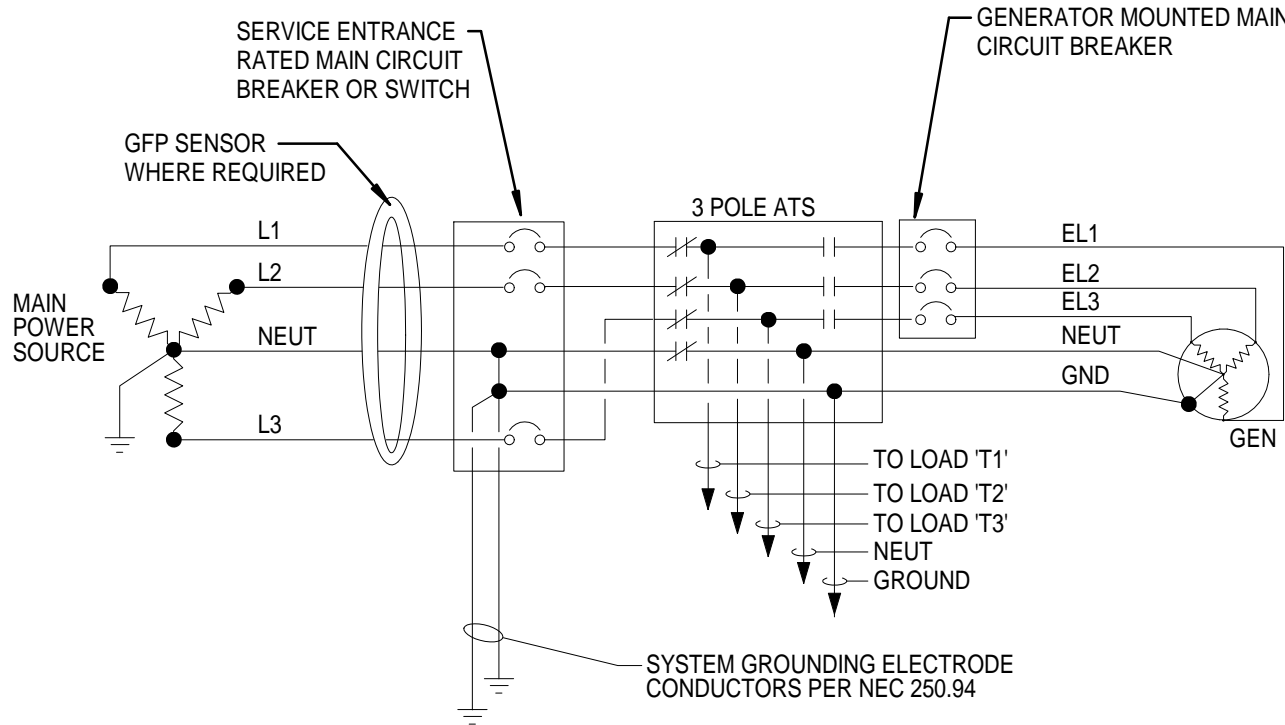
NO SCALE



CONNECTION TO FLOOR MOUNTED MOTORS

NO SCALE

NOTE: SEE SPECIFICATIONS FOR ADDITIONAL SUPPORT, SEISMIC AND OTHER REQUIREMENTS.



GENERATOR GROUNDING DETAIL 3 POLE TRANSFER SWITCH

NO SCALE



NOT FOR CONSTRUCTION

Owner
City of Greeley
970.350.9177

Architect/Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design Corporation
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc.
2525 South Wadsworth Blvd, Suite 200
Lakewood, Colorado 80227
303.988.4514

Electrical Engineer
CMO Consulting Engineers, LLC
11646 Sun Bear Trail
Golden, Colorado 80403
303.875.4037

City of Greeley
Greeley Fire Station #6

10603 20TH ST, GREELEY COLORADO 80634



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SEH Project 150268
Checked By CAB
Drawn By CAB

Project Status Issue Date
30% DESIGN 6/26/2019
75% DESIGN 9/13/2019

Revision Issue
Rev. # Description Date

ELECTRICAL DETAILS

E502

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Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514



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Central File: \\csmh\data\01_Projects\65519039\03-Production\20-Model\65519039-GREELEY FIRE STATION #6-COMM_R18.rvt

ABBREVIATIONS			
ABBREV.	DEFINITION	ABBREV.	DEFINITION
ACEG	ALTERNATING CURRENT ELECTRICAL GROUND	LL	LINE LEVEL LEFT CHANNEL AUDIO
ACLSGS	ACCESSIBLE CEILING SPACE	LM	LINE LEVEL MONO AUDIO
ACT	ACOUSTIC CEILING TILE	LPS	LOCK POWER SUPPLY
AFF	ABOVE FINISHED FLOOR	LR	LINE LEVEL RIGHT CHANNEL AUDIO
AHJ	AUTHORITY HAVING JURISDICTION	MAG	MAGNETIC LOCK
APC	ANGLE POLISHED CONNECTOR	MECH	MECHANICAL
ARCH	ARCHITECT	MED	MEDICAL EQUIPMENT
AVC	AUDIOVISUAL CONTRACTOR	MFR	MANUFACTURER
AWG	AMERICAN WIRE GAUGE	MIC	MICROPHONE LEVEL AUDIO
BAS	BUILDING AUTOMATION SYSTEM	MIN	MINIMUM
BB	BACKBONE	MM	MULTIMODE FIBER OPTIC CABLE
BEP	BUILDING ENTRANCE PROTECTOR	(N)	NEW
BLDG	BUILDING	NA	NOT APPLICABLE
BO	BY OTHERS	NACLSGS	NON ACCESSIBLE CEILING SPACE
CAB	CABINET	NEC	NATIONAL ELECTRIC CODE
CATV	CABLE TELEVISION	NS	NETWORK SWITCH
CC	CONTACT CLOSURE	NVR	NETWORK VIDEO RECORDER
CCTV	CLOSED CIRCUIT TELEVISION	O	OWNER
CLG	CEILING	OB	OVERRIDE BUTTON
COM	COMMON	OC	ON CENTER
COMM	COMMUNICATION	OD	OUTSIDE DIAMETER
CR	CARD READER	OFCl	OWNER FURNISHED, CONTRACTOR INSTALLED
CT	COUNT	OFOI	OWNER FURNISHED, OWNER INSTALLED
DB	DIRECT BURIAL	OSP	OUTSIDE PLANT
(D)	DEMOLISH	PA	PUBLIC ADDRESS
DIA	DIAMETER	POE	POWER OVER ETHERNET
DP	DISPLAY PORT	PP	PATCH PANEL(S)
DPS	DOOR POSITION SWITCH	PR	PAIR
DR	DOOR RELEASE	PS	POWER SUPPLY
DVR	DIGITAL VIDEO RECORDER	PWR	POWER
DWG	DRAWING	(RE)	REMOVE AND RELOCATE
(E)	EXISTING TO REMAIN	REV	REVISION
EB	EXIT BUTTON	REX	REQUEST TO EXIT SWITCH
EC	ELECTRICAL CONTRACTOR	RM	ROOM
ECL	ELECTRIC CYLINDER LOCK	RMC	RIGID METALLIC CONDUIT
ECP	ELEVATOR CONTROL PANEL	RNC	RIGID NONMETALLIC CONDUIT
EF	ENTRANCE FACILITY (DEMARC)	RW	CABLE RUNWAY
EIB	EMERGENCY INFORMATION BOARD	RW-A	CABLE RUNWAY, ALTERNATE SPACING
ELEC	ELECTRICAL	SC	SECURITY CONTRACTOR
ELV	ELEVATOR	SCHED	SCHEDULE
EMT	ELECTRICAL METALLIC TUBING	SM	SINGLEMODE FIBER OPTIC CABLE
ENCL	ENCLOSURE	SMT	SURFACE MOUNT
EQPMT	EQUIPMENT	SP	SURGE PROTECTOR
ER	EQUIPMENT ROOM	SPEC	SPECIFICATION
ES	ELECTRIC STRIKE	SPKR	LOUDSPEAKER LEVEL AUDIO
(F)	FUTURE	SR	SURFACE RACEWAY
FAC	FIRE ALARM CONTRACTOR	STP	SHIELDED TWISTED PAIR
FACP	FIRE ALARM CONTROL PANEL	TB	TERMINATION BLOCK(S)
FB	FIBER BACKBONE, FLOOR BOX	TBB	TELECOMMUNICATIONS BONDING BACKBONE
FD	FLOOR DISTRIBUTOR	TBD	TO BE DETERMINED
FLEX	FLEXIBLE CONDUIT	TC	TELECOMMUNICATIONS CONTRACTOR
FPA	FLOOR PENETRATION ASSEMBLY	TEL	TELEPHONE
FS	FURNITURE SUPPLIER	TR	TELECOMMUNICATIONS ROOM (IDF, FD)
FSD	FIRE STOP DEVICE	TYP	TYPICAL
G	GROUND	U	UNIT
GC	GENERAL CONTRACTOR	UGND	UNDERGROUND
HB	HANDICAP BUTTON	UON	UNLESS OTHERWISE NOTED
HC	HORIZONTAL CABLE	UPS	UNINTERRUPTIBLE POWER SUPPLY
IF	INTERFACE PLATE	UTP	UNSHIELDED TWISTED PAIR
IG	ISOLATED GROUND	VB	VOICE BACKBONE
IMC	INTERMEDIATE METAL CONDUIT	VGA+A	HD ANALOG VIDEO TYP 15 PIN D-SUB & 3.5MM TRS
IP	INTERNET PROTOCOL	VMS	VIDEO MANAGEMENT SYSTEM
ISP	INSIDE PLANT	VOIP	VOICE OVER INTERNET PROTOCOL
IWC	IN-BUILDING WIRELESS CONTRACTOR	WP	WEATHER PROOF
KS	KEYSWITCH		
LC	LOW VOLTAGE/SPECIALTY CONTRACTOR		

TERMS AND DEFINITIONS			
GENERAL		GENERAL CONT.	
A	ACCEPTED/Acceptable: WORK OR MATERIALS CONFORMING WITH THE INTENT OF THE PROJECT, AND IN GENERAL, CONFORMING TO THE PERTINENT INFORMATION IN THE CONSTRUCTION DOCUMENTS.	AA	THE PROJECT: THE TOTAL CONSTRUCTION OF WHICH THE WORK PERFORMED UNDER THE CONTRACT DOCUMENTS MAY BE THE WHOLE OR A PART, AND WHICH MAY INCLUDE CONSTRUCTION BY THE OWNER AND/OR SEPARATE CONTRACTORS.
B	ACCESSIBLE: EASY ACCESS. ACCESS ATTAINED WITHOUT REQUIRING EXTENSIVE REMOVAL OF OTHER MATERIALS TO GAIN ACCESS.	AB	PROVIDE: TO FURNISH AND INSTALL, COMPLETE, TESTED AND READY FOR INTENDED USE.
C	ACCESSIBLE CEILING: ACOUSTICAL TILE HANGING CEILINGS ("HARD-LID" CEILINGS (CONCEALED SPINE OR SHEETROCK/GYPSUM CEILINGS), EVEN WHEN PROVIDED WITH ACCESS PANELS, ARE NOT CONSIDERED AN ACCESSIBLE CEILING.)	AC	ROUGH-IN: PROVIDE THE COMMUNICATIONS PATHWAY SYSTEM, INCLUDING (BUT NOT LIMITED TO) DEVICE BOXES, PULL BOXES, WALL BOXES, FLOOR BOXES, POKE-THROUGH DEVICES, CONDUIT, ENCLOSURES, CABLE TRAY, DUCTS/DUCTBANKS, MAINTENANCE HOLES, HAND HOLES, AND OTHER PATHWAYS AND ITEMS INDICATED (OR AS REQUIRED) FOR ROUTING, SUPPORTING, AND INSTALLING COMMUNICATIONS CABLES, DEVICES, OR EQUIPMENT WHICH SHALL BE PROVIDED BY OTHERS OR PROVIDED UNDER A SUBSEQUENT SET OF CONTRACT DOCUMENTS.
D	APPROVED/Approval: THE WRITTEN APPROVAL OF THE ENGINEER.	AD	SUBSTANTIAL COMPLETION: THE DATE WHEN ALL WORK REQUIRED BY THE CONSTRUCTION DOCUMENTS SHALL BE COMPLETE (SUBJECT TO THE FINAL PUNCH LIST TO BE PREPARED BY THE ENGINEER) AND ON WHICH THE APPLICABLE JURISDICTIONAL AUTHORITIES HAVE ISSUED A TEMPORARY CERTIFICATION OF OCCUPANCY.
E	AGREEMENT: THE CONTRACTUAL AGREEMENT BETWEEN THE OWNER AND THE CONTRACTOR.	AE	SECTION: AN INDIVIDUAL SECTION OF THE SPECIFICATIONS.
F	COMMUNICATIONS (OR TECHNOLOGY) GROUNDING SYSTEM: INCLUDES (BUT IS NOT LIMITED TO) PROVIDING A PERMANENT GROUNDING AND BONDING INFRASTRUCTURE FOR THE COMMUNICATIONS CABLEING SYSTEM.	AF	SHOWN ON DRAWINGS: NOTED, INDICATED, SCHEDULED, DETAILED, OR ANY OTHER WRITTEN REFERENCE MADE ON THE DRAWINGS.
G	ELECTRICAL FOR COMMUNICATIONS SYSTEMS ALSO REFERRED TO AS COMMUNICATIONS (OR TECHNOLOGY) PATHWAY SYSTEM: INCLUDES (BUT IS NOT LIMITED TO) DEVICE BOXES, PULL BOXES, CONDUIT, CABLE TRAY, DUCT/DUCTBANK, AND OTHER PATHWAY AND RACEWAY COMPONENTS NECESSARY TO PROVIDE PATHWAY FOR, SUPPORT, AND ROUTE COMMUNICATIONS CABLES.	AG	SPECIFICATIONS: THE PORTION OF THE CONTRACT DOCUMENTS CONSISTING OF THE WRITTEN REQUIREMENTS FOR MATERIALS, EQUIPMENT, CONSTRUCTION SYSTEMS, STANDARDS AND WORKMANSHIP FOR THE WORK AND PERFORMANCE OF RELATED SERVICES.
H	COMMUNICATIONS (OR TECHNOLOGY) SYSTEMS: INCLUDES (BUT IS NOT LIMITED TO) AUDIO/VISUAL SYSTEM, COMMUNICATION CABLEING SYSTEM, ELECTRICAL FOR COMMUNICATIONS SYSTEMS (PATHWAY AND GROUNDING), <HEALTHCARE SYSTEMS>, <LOW VOLTAGE SYSTEM>, <IN-BUILDING WIRELESS SYSTEM (IWS)>, SECURITY SYSTEM, STRUCTURED CABLEING SYSTEM (SCS).	AH	SPECIFICATION SECTION(S): ONE OR MORE SECTIONS OF THE SPECIFICATIONS.
I	CONCEALED: HIDDEN FROM SIGHT IN INTERSTITIAL BUILDING SPACES, CHASES, FURRED SPACES, SHAFTS, CRAWL SPACES, ETC.	AI	SECTION(S): AN ABBREVIATED FORM OF SPECIFICATION SECTION(S).
J	CONSTRUCTION DOCUMENTS: COLLECTIVE TERM FOR THE ENTIRE SET OF BOUND OR UNBOUND MATERIAL DESCRIBING THE CONSTRUCTION AND SERVICES REQUIRED, INCLUDING ALL DRAWINGS, SPECIFICATIONS, ADDENDA ISSUED PRIOR TO EXECUTION OF THE CONTRACT, AND MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT (SUCH AS CHANGE ORDERS, CONSTRUCTION CHANGE DIRECTIVES, SUPPLEMENTAL INSTRUCTIONS, ETC.).	AJ	THE WORK: THE CONSTRUCTION AND SERVICES REQUIRED BY THE CONTRACT DOCUMENTS, WHETHER COMPLETED OR PARTIALLY COMPLETED, AND ALL OTHER LABOR, MATERIALS, EQUIPMENT AND SERVICES PROVIDED OR TO BE PROVIDED BY THE CONTRACTOR TO FULFILL THE CONTRACTOR'S OBLIGATIONS. THE WORK MAY CONSTITUTE THE WHOLE OR A PART OF THE PROJECT.
K	CONTRACT DOCUMENTS: THE AGREEMENT (INCLUDING OTHER DOCUMENTS LISTED IN THE AGREEMENT), CONDITIONS OF THE CONTRACT (GENERAL, SUPPLEMENTARY AND OTHER CONDITIONS), AND THE CONSTRUCTION DOCUMENTS.		
L	THE CONTRACT: THE CONTRACT DOCUMENTS FORM THE CONTRACT. THE CONTRACT REPRESENTS THE ENTIRE AND INTEGRATED AGREEMENT BETWEEN THE OWNER AND THE CONTRACTOR AND SUPERSEDES ANY PRIOR NEGOTIATIONS, REPRESENTATIONS OR AGREEMENTS, EITHER WRITTEN OR ORAL. THE CONTRACT SHALL NOT BE CONSTRUED TO CREATE A CONTRACTUAL RELATIONSHIP OF ANY KIND (1) BETWEEN THE ENGINEER AND THE CONTRACTOR, (2) BETWEEN THE OWNER AND A SUBCONTRACTOR, OR (3) BETWEEN ANY PERSONS OR ENTITIES OTHER THAN THE OWNER AND CONTRACTOR.		
M	CONTRACTOR: THE PARTY RESPONSIBLE FOR PROVIDING THE COMMUNICATION SYSTEM(S) AS INDICATED HEREIN.		
N	DRAWINGS: THE GRAPHIC AND PICTORIAL PORTIONS OF THE CONTRACT DOCUMENTS, WHEREVER LOCATED AND WHENEVER ISSUED, SHOWING THE DESIGN, LOCATION AND DIMENSIONS OF THE WORK, GENERALLY INCLUDING (BUT NOT LIMITED TO) PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND/OR DIAGRAMS.		
O	ENGINEER: THE PARTY RESPONSIBLE FOR PRODUCING THE COMMUNICATION SYSTEM(S) CONSTRUCTION DOCUMENTS.		
P	EXPOSED: NOT CONCEALED (SEE ABOVE) AND NOT INSTALLED UNDERGROUND.		
Q	FINAL COMPLETION: THE DATE WHEN THE ENGINEER CONFIRMS IN WRITING THAT THE CONTRACTOR HAS COMPLETED THE WORK IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, INCLUDING COMPLETION OF ALL PUNCH LIST ITEMS, CLEANUP WORK AND DELIVERY OF ALL REQUIRED GUARANTEES, WARRANTIES, LICENSES, RELEASES AND OTHER REQUIRED DELIVERABLES.		
R	FURNISH: TO PURCHASE, SUPPLY, AND DELIVER TO THE PROJECT MATERIALS IN NEW AND OPERABLE CONDITION, READY FOR INSTALLATION.		
S	GOVERNING AUTHORITY: ENTITIES OR THEIR REPRESENTATIVES CHARGED WITH FORMATION AND/OR ENFORCEMENT OF GOVERNING REQUIREMENTS, SUCH AS THE AUTHORITY HAVING JURISDICTION (AJH).		
T	GOVERNING REQUIREMENTS: COLLECTIVE TERM FOR REGULATIONS, LAWS, ORDINANCES, CODES, RULES, STANDARDS, REQUIREMENTS, GUIDELINES, AND RECOMMENDATIONS THAT GOVERN THE INSTALLATION AND INSPECTION OF THE WORK DEFINED IN THE CONTRACT DOCUMENTS.		
U	HANGER/SUPPORT SYSTEM: ALL EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO SUPPORT THE RACEWAY/PATHWAY AND CABLEING SYSTEMS, INCLUDING BUT NOT LIMITED TO METALLIC HANGERS AND SUPPORTS, CONDUIT, CABLE TRAY, CONDUIT, PULL BOXES, DEVICE BOXES, U-CHANNELS, THREADED RODS, CLAMPS, CONCRETE INSERTS, ANCHOR BOLTS, CABLES, BACKING BOARDS, ETC.		
V	INSIDE PLANT (ISP): INFRASTRUCTURE WITHIN A BUILDING.		
W	INSTALL: TO PLACE IN FINAL POSITION IN FULLY OPERABLE, TESTED CONDITION.		
X	OR EQUAL: MATERIALS APPROVED FOR USE BY THE ENGINEER AND WHICH ARE DIMENSIONALLY SUITABLE AND OPERATIONALLY IDENTICAL TO THE SPECIFIED ITEM.		
Y	OUTSIDE PLANT (OSP): INFRASTRUCTURE EXTERIOR TO A BUILDING.		
Z	OWNER: THE OWNER AND THE OWNER'S DESIGNATED REPRESENTATIVE(S).		



NOT FOR CONSTRUCTION

Owner
City of Greeley
1000 10th Street
Greeley, Colorado
80631
970.350.9777
Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design Corporation
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037



City of Greeley
GREELEY FIRE STATION #6

10603 20TH ST., GREELEY, CO 80634

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COMMUNICATIONS PROJECT NOTES

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COMMUNICATIONS RESPONSIBILITY MATRIX				
COMPONENT	ENTITY		NOTES APPLY TO ALL ENTITIES	GENERAL NOTES
	FURNISH	INSTALL		
COMMON WORK				A. FURNISH AND INSTALL RESPONSIBILITIES ARE ONLY RECOMMENDATIONS AND PROVIDED AS A COURTESY TO CONTRACTOR. B. SOME COMPONENTS AND ASSOCIATED FURNISH AND INSTALL RESPONSIBILITIES MAY NOT BE INDICATED ON THIS MATRIX. C. THE DETAIL FURNISH / INSTALL CALLOUT ANNOTATION PROVIDES SPECIFIC RECOMMENDATIONS THAT SUPERSEDE GENERAL RECOMMENDATIONS FOUND IN THIS TECHNOLOGY RESPONSIBILITY MATRIX. D. EQUIPMENT SCHEDULES MAY CONTAIN ADDITIONAL FURNISH OR INSTALL RESPONSIBILITY RECOMMENDATIONS. THESE SUPERSEDE RECOMMENDATIONS FOUND IN DETAIL ANNOTATIONS AND THIS TECHNOLOGY RESPONSIBILITY MATRIX. E. CONTRACTOR IS RESPONSIBLE FOR FINAL DETERMINATION OF ALL COMPONENTS AND ASSOCIATED FURNISH AND INSTALL RESPONSIBILITIES REQUIRED FOR PROVISION OF COMPLETE COMMUNICATIONS SYSTEMS READY FOR OWNER'S USE. DETERMINATION OF SUCH SHALL OCCUR PRIOR TO BID. F. DETERMINATION AND EXECUTION OF ALL NECESSARY COMPONENTS AND ASSOCIATED FURNISH AND INSTALL RESPONSIBILITIES SHALL CONFORM TO PROJECT SCHEDULE. G. CABLING FOR COMPONENTS SHALL BE PROVIDED BY ENTITY INSTALLING COMPONENT UNLESS OTHERWISE INDICATED. H. EACH TRADE SHALL COORDINATE ROUGH-IN REQUIREMENTS (INCLUDING SLEEVES) WITH ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN.
				MATRIX NOTES
ELECTRICAL FOR COMMUNICATIONS SYSTEMS				1. EACH RESPECTIVE TRADE SHALL COORDINATE EXTENT OF WORK WITH ELECTRICAL CONTRACTOR PRIOR TO ROUGH IN. 2. EACH TRADE SHALL COORDINATE PROVISION OF THIS COMPONENT WITH TELECOMMUNICATIONS CONTRACTOR. TELECOMMUNICATIONS CONTRACTOR SHALL PROVIDE THIS COMPONENT UNLESS DETERMINED OTHERWISE IN CONJUNCTION WITH TELECOMMUNICATIONS CONTRACTOR. 3. COMPONENT SPECIFICATION MAY BE INDICATED ON E-SERIES DOCUMENTS. 4. FURNISHING CONTRACTOR TO PROVIDE ROUGH IN DIMENSIONS / TEMPLATE AND DESIRED LOCATION FOR TABLE TOP INTERFACE. INSTALLING CONTRACTOR SHALL CUT-OUT SURFACE OF TABLE, IDENTIFYING AND COORDINATING ANY POTENTIAL CONFLICTS WITH DESIRED LOCATION PRIOR TO PERFORMING ANY WORK. 5. EACH TRADE SHALL COORDINATE PROVISION OF THIS COMPONENT WITH GENERAL CONTRACTOR. GENERAL CONTRACTOR SHALL PROVIDE THIS COMPONENT UNLESS DETERMINED OTHERWISE IN CONJUNCTION WITH GENERAL CONTRACTOR. 6. ELECTRICAL CONTRACTOR SHALL PROVIDE PADS DURING ROUGH-IN. AFTER ROUGH IN, REQUIRED PADS SHALL BE PROVIDED BY RESPECTIVE TRADES. 7. ELECTRICAL CONTRACTOR SHALL COORDINATE EXTENT OF WORK WITH GENERAL CONTRACTOR. 8. TELECOMMUNICATIONS CONTRACTOR SHALL COORDINATE EXTENT OF WORK WITH GENERAL CONTRACTOR. 9. AUDIOVISUAL CONTRACTOR SHALL COORDINATE EXTENT OF WORK WITH GENERAL CONTRACTOR. 10. THE FURNISHING CONTRACTOR SHALL PROVIDE ALL SYSTEM REQUIREMENTS FOR A FULLY FUNCTIONAL AND OPERATING SYSTEM READY FOR THE OWNERS USE. REQUIREMENTS SHALL INCLUDE BUT NOT BE LIMITED TO SYSTEM COMPONENTS, CABLING, PROGRAMING, INSTALLATION AND COORDINATION UNLESS NOTED OTHERWISE. 11. THE OWNER SHALL INSTALL FAR END PATCH CORDS FOR ALL OWNER FURNISHED DEVICES. THE CONTRACTOR SHALL INSTALL FAR END PATCH CORDS FOR ALL CONTRACTOR FURNISHED DEVICES. TRADE SPECIFIC NETWORK BASED SYSTEMS THAT ARE NOT PART OF OWNERS TELECOMMUNICATIONS NETWORK SHALL BE PROVIDED BY RESPECTIVE CONTRACTOR UNLESS OTHERWISE NOTED. EXAMPLES OF SUCH TRADE SPECIFIC SYSTEMS INCLUDE BALUNS AND CONTROL NETWORKS.
BACKBOXES	EC	EC	1	
CONDUIT, FITTINGS, PULL STRINGS	EC	EC	1	
FLOOR BOXES	EC	EC	1,3	
GROUND BUS BAR	EC	EC		
GROUND RISER CONDUCTORS	EC	EC		
INNERDUCTS (SUBDUCTS)	EC	EC	1	
JUNCTION BOXES	EC	EC	1	
PLENUM ENCLOSURES	EC	EC	1	
POKE-THROUGHS	EC	EC	1,3	
PULL BOXES	EC	EC	1	
WALL BOXES (AV)	EC	EC	1	
TELECOMMUNICATIONS (COMMUNICATIONS CABLING SYSTEM)				
BACKBOARDS	GC	GC	8	
BUILDING ENTRANCE PROTECTION	TC	TC		
CABLE RUNWAY AND ACCESSORIES	TC	TC		
CONNECTORS BACKBONE CABLE	TC	TC		
CONNECTORS HORIZONTAL CABLE	TC	TC		
EQUIPMENT FRAMES AND ACCESSORIES	TC	TC		
EQUIPMENT RACKS AND ACCESSORIES	TC	TC		
FACEPLATES	TC	TC		
HORIZONTAL CABLING	TC	TC		
IDENTIFICATION	TC	TC		
OSP BACKBONE CABLING	TC	TC		
PATCH CORDS @ PATCH PANEL (MDF/IDF/TR/ETC.)	TC	O		
PATCH CORDS @ FAR END (OUTLET/DEVICE INCLUSIVE OF ALL SYSTEMS/ENDPOINTS)	TC	--	11	
PATCH PANELS	TC	TC		
SPLICE ENCLOSURES	TC	TC		
TELECOM ROOM EQUIPMENT GROUNDING AND BONDING	TC	TC		
TERMINATION BLOCKS	TC	TC		
WIRELESS ACCESS POINTS	O	O		
AUDIOVISUAL SYSTEM(S)				
STRUCTURAL SUPPORTS FOR AV EQUIPMENT	GC	GC	9	
IN-BUILDING WIRELESS SYSTEM	IWC	IWC	10	
CELLULAR PHONE INTEGRATION	O	O		
SECURITY SYSTEM(S)				
ACCESS CONTROL SYSTEM			10	
ACCESS CONTROL SOFTWARE	SC	SC		
ACCESS CONTROL SYSTEM CABLING (ANALOG)	SC	SC		
CARD READER / VERIFICATION DEVICE	SC	SC		
DOOR HARDWARE	GC	GC	5	
DOOR POSITION SWITCH	SC	SC		
HEAD END EQUIPMENT	SC	SC		
NETWORK BASED PATCH CORDS (AT DEVICE)	TC	SC		
NETWORK SERVER FOR ACCESS CONTROL SYSTEM	O	O		
NETWORK SWITCHES AND POE	O	O		
POWER SUPPLIES	GC	GC		
REQUEST-TO-EXIT	SC	SC		



NOT FOR
CONSTRUCTION

Owner
City of Greeley
1000 10th Street
Greeley, Colorado
80631
970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect
DHM Design Corporation
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037



City of Greeley
GREELEY FIRE STATION #6

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COMMUNICATIONS SCHEDULES

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EQUIPMENT SCHEDULE - COMMON WORK / ELECTRICAL					
27 04 05 - SLEEVES, PENETRATIONS AND FIRESTOPPING (FS)					
DESCRIPTION	MANUFACTURER / PART NUMBER				SPECIAL REQUIREMENTS
	HILTI	STI	WIREMOLD	--	
CABLE PATHWAY FIRESTOPPING DEVICE	Speed Sleeve	EZ-Path	FSx	--	4" (nominal) shall be the standard device size.
FIRE RATED FLOOR PENETRATION ASSEMBLY	Speed Sleeves thru ganged CP 680M/P Cast In Place Devices	EZ-Path Series 44+ Modular Floor Grid System	--	--	Provide in the configurations shown on the floor plans or as noted on the Communications Backbone Riser Diagram. Provide all Accessories and Kits for a complete and properly configured installation.
27 04 06 - HANGERS AND SUPPORTS (JS)					
DESCRIPTION	MANUFACTURER / PART NUMBER				SPECIAL REQUIREMENTS
	ERICO	ARLINGTON	HUBBELL	CPI	
HANGER/SUPPORT SYSTEM	See Special Rqmt	See Special Rqmt	--	See Special Rqmt	B-Line, Erico, Kindorf, Unistrut or approved equal
WIDE BASE CABLE SUPPORTS (J-HOOKS)	CADDY CableCat	--	--	See Erico	--
STRAPS/SLINGS (EXTERIOR TO COMM ROOMS)	CADDY CableCat	THE LOOP	--	See Arlington	--
STRAPS/SLINGS (WITHIN COMM ROOMS)	See Special Rqmt	See Special Rqmt	--	See Special Rqmt	Velcro, Siemons, Panduit or approved equal
27 05 26 - GROUNDING AND BONDING (GB)					
DESCRIPTION	MANUFACTURER / PART NUMBER				SPECIAL REQUIREMENTS
	CPI	ERICO	COOPER B-LINE	--	
TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB) 20" X 4" X 1/4" (NOMINAL)	40153-020	TMGB-A20L27PT	SBTMGB20	--	--
ALL ACCESSORIES AND RELATED EQUIPMENT REQUIRED FOR A COMPLETE COMMUNICATIONS GROUNDING AND BONDING SYSTEM.	See Special Rqmt	See Special Rqmt	See Special Rqmt	--	Product shall be from the same manufacturer as the provided Grounding Busbars (CPI, Erico or Cooper B-Line).
27 05 33 - CONDUIT AND BOXES (CB)					
DESCRIPTION	MANUFACTURER / PART NUMBER				SPECIAL REQUIREMENTS
	WIREMOLD	HUBBELL	CHIEF	CARLON	
FLOOR BOX - SINGLE-SERVICE	886B	--	--	--	
FLOOR BOX (8-GANG)	Evolution EFB8S-xx	--	--	--	Provide the On-Grade (-OG) version for Slab-On-Grade installations; the Fire Classified (-FC) version for all Fire-Rated Slabs and the standard version for all other installations.
INNERDUCT, INSIDE PLANT	--	--	--	xF4XD1C	--
INNERDUCT, OUTSIDE PLANT	--	--	--	A5D2S1JNN	--
DISPLAY WALL BOX	--	--	PAC526FC	--	REFER TO THE AV CONDUIT RISER DIAGRAMS AND THE AV ROUGH-IN DETAILS. CONFIRM COLOR WITH ARCHITECT BEFORE ORDERING.
27 05 45 - MAINTENANCE AND HAND HOLES (MH)					
DESCRIPTION	MANUFACTURER / PART NUMBER				SPECIAL REQUIREMENTS
	Oldcastle Precast	Other			
HANDHOLE COVER	SYNERTECH 2436-24	--	--	--	TIER 22 LOAD RATING
HANDHOLE FRAME	SYNERTECH 2436-24	--	--	--	--

ACCESS CONTROL DOOR SCHEDULE								
DOOR INFORMATION		DIVISION 8			DIVISION 28			NOTES
	CONTROLLED (C)	SINGLE LEAF DOOR	DOUBLE LEAF DOOR	ELECTRIFIED DOOR HARDWARE	CARD / KEY/PAD READER (CR)	DOOR POSITION SWITCH (DPS)	LOCK POWER SUPPLY (PS)	
DOOR NUMBER	DOOR TAG	DOOR HARDWARE			SECURITY			
607	C	X		X	1	1	1	
657	C	X		X	1	1	1	
744	C	X		X	1	1	1	
747	C	X		X	1	1	1	
776	C		X	X	1	2	1	
788	C	X		X	1	1	1	
792	C	X		X	1	1	1	
804	C	X		X	1	1	1	
805	C	X		X	1	1	1	
806	C		X	X	1	2	1	SCHEDULED RELEASE
GENERAL NOTES:								
A	NUMBERS DEPICTED WITHIN THIS SCHEDULE DENOTE QUANTITY OF DEVICES. DEVICES LISTED UNDER 'DIVISION 1, DIVISION 8 AND OTHER OPENING SPECIFICATIONS' SHALL BE PROVIDED BY OTHERS. SECURITY CONTRACTOR SHALL PROVIDE DEVICES LISTED UNDER 'DIVISION 28. THE SECURITY CONTRACTOR SHALL PROVIDE CONNECTIVITY TO DOOR HARDWARE DEVICES INSTALLED BY OTHERS FOR INTEGRATION INTO THE ACCESS CONTROL SYSTEM.							
B	REFERENCE SECURITY DOOR DETAILS FOR CONDUIT AND BOX REQUIREMENTS. IF DOOR REQUIREMENTS ARE IN CONFLICT, PROVIDE MOST STRINGENT REQUIREMENTS TO MEET ALL POSSIBLE CONFIGURATIONS.							
C	POWER SUPPLIES FOR DOOR HARDWARE ARE INTENDED TO BE DISTRIBUTED FOR MULTIPLE DOORS. QUANTITIES INDICATED IN THIS SCHEDULE DO NOT REFLECT TOTAL NUMBER OF POWER SUPPLIES REQUIRED. THE SECURITY CONTRACTOR SHALL PROVIDE AND DISTRIBUTE ADEQUATE DOOR POWER PER MANUFACTURER REQUIREMENTS.							

EQUIPMENT SCHEDULE - COMMUNICATIONS					
27 11 00 - EQUIPMENT ROOM FITTINGS (ER)					
DESCRIPTION	Manufacturer/Part Number				
	CPI	Cooper B-Line	Commscope NetConnect	Panduit	Special Rqmt/Notes
UNIVERSAL CABLE RUNWAY	10260-712	--	--	--	
RUNWAY BEND RADIUS	10723-712	--	--	--	
RADIUS DROP	12100-712	--	--	--	
BUTT SPLICE	16301-001	--	--	--	
RACK-TO-RUNWAY MOUNTING PLATE (3")	10595-712	--	--	--	
WALL ANGLE SUPPORT	11421-712	--	--	--	
FOOT KIT, CABLE RUNWAY	11309-001	--	--	--	
THREADED KIT, CABLE RUNWAY	11310-001	--	--	--	
CABLE RETAINING POSTS	10596-706	--	--	--	
PROTECTIVE END CAPS	10642-001	--	--	--	
EQUIPMENT RACK (7' 2-POST)	48353-703	--	--	--	
HORIZONTAL POWER STRIP	--	--	--	CMRPSH20S	
HORIZONTAL CABLE MGMT PANEL (2U)	--	--	--	NM2	
VERTICAL MANAGEMENT SECTION (FIBER)	--	--	--	HD FLEX ENCLOSURE	
VERTICAL MANAGEMENT SECTION (COPPER)	--	--	--	PR2VD10	
UPPER TRANSITION TRAY	12183-x19	--	--		
27 11 19 - TERMINATION EQUIPMENT (TE)					
DESCRIPTION	Manufacturer/Part Number				
	Commscope Systimax	Legrand/Sup. Essex nCompass	Berk-Tek/Leviton Technologies	Panduit/Gen. Cable "PanGen"	Special Rqmt/Notes
HORIZONTAL COPPER PATCH PANEL-CAT 6A (48 PORT, 2U, IDC TERMINATION, U/UTP)	--	--	--	DP486X88TGY	
RACK MOUNT FIBER PATCH PANEL (48/96 PORT, 2U)	--	--	--	FLEX1U06	COORDINATE WITH OWNER FOR CASSETTE REQUIREMENTS
TERMINATION BLOCK -110 STYLE	--	--	--	P110KBx005	
TERMINATION BLOCK JUMPER TROUGH - 110-STYLE	--	--	--	P110JTW-X	
27 13 00 - BACKBONE CABLING (BC)					
DESCRIPTION	Manufacturer/Part Number				
	Commscope Systimax	Corning	Panduit/Gen. Cable "PanGen"	Belden	Special Rqmt/Notes
ISP COAXIAL/CATV (RG-6)	4112704/10	--	--	4694P	
OSP SM FIBER BACKBONE	TERASPEED: 76000939xx	ALTOS: xxxEUD-T4122A20	--	FSSHxxx6G	
27 15 00 - HORIZONTAL CABLING (HC)					
DESCRIPTION	Manufacturer/Part Number				
	Commscope Systimax	Legrand/Sup. Essex nCompass	Berk-Tek/Leviton Technologies	Panduit/Gen. Cable "PanGen"	Special Rqmt/Notes
HORIZONTAL COPPER CABLE - CAT6A	--	--	--	PUP6AV04WH-UG	
27 15 43 - FACEPLATES AND CONNECTORS (FC)					
DESCRIPTION	Manufacturer/Part Number				
	Commscope Systimax	Commscope Uniprise	Berk-Tek/Leviton Technologies	Panduit/Gen. Cable "PanGen"	Special Rqmt/Notes
WALL MOUNT TELEPHONE FACEPLATE	--	--	--	KWP6PY	--
FURNITURE OUTLET	--	--	--	CFFPL4BL	--
2-PORT WALL OUTLET	--	--	--	CFPL21WY	--
BLANK INSERT	--	--	--	CMBIW-X	--
KEYSTONE WALL PLATE WITH RJ45	--	--	--	CJ6X88TGYL	--
27 16 19 - PATCH CORDS (PC)					
DESCRIPTION	Manufacturer/Part Number				
	Commscope Systimax	Commscope Uniprise	Berk-Tek/Leviton Technologies	Panduit/Gen. Cable "PanGen"	Special Rqmt/Notes
COPPER PATCH CORD (CAT6A - 7')	--	--	--	UTP28xxx	
COPPER PATCH CORD (CAT6A - 10')	--	--	--	UTP28xxx	

EQUIPMENT SCHEDULE - SECURITY			
DESCRIPTION	MANUFACTURER	PART NUMBER	SPECIAL RQMTS
PROXPOINT PLUS CARD READER	HID	6005BK00	
CONTROLLER / LOCK POWER SUPPLY	LIFESAFTY POWER	FPO SERIES (SIZE AS REQUIRED)	COORDINATE WITH DOOR CONTRACTOR FOR LOCK POWER SUPPLY REQUIREMENTS
PROCESSOR PANEL "MAIN BOARD"	BRIVO	ACS6008-MB	MATCH EXISTING SYSTEMS OR LATEST VERSION
DOOR CONTROLLER "DOOR BOARD"	BRIVO	ACS6000-DB	MATCH EXISTING SYSTEMS OR LATEST VERSION
POWER SUPPLY BATTERY BACKUP	ELK	SIZE AS REQUIRED	
ACCESS CONTROL SYSTEM CABLE	Per Manufacturer's Recommendations	PLENUM W/ BLACK OUTER SHEATH	CONDUCTOR QUANTITY AND GAUGE PER SYSTEM REQUIREMENTS

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Owner
City of Greeley
1000 10th Street
Greeley, Colorado
80631
970.350.9777

Architect/Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800
Landscape Architect
DHM Design Corporation
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc.
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037



GREELEY FIRE STATION #6

10803 20TH ST., GREELEY, CO 80634

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COMMUNICATIONS SCHEDULES

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WORK NOTES	
T02	APPROXIMATE LOCATION OF UTILITY SERVICE PROVIDER HANDHOLE FOR CATV, COORDINATE LOCATION WITH COMCAST. CONDUIT SHALL ROUTE TO AV ROOM 177. CONTRACTOR SHALL PROVIDE THREE (3) 1" INNERDUCT THROUGH 4" CONDUIT.
T03	APPROXIMATE LOCATION OF UTILITY SERVICE PROVIDER HANDHOLE FOR COPPER, COORDINATE LOCATION WITH CENTURYLINK. CONDUIT SHALL ROUTE TO TR-28. CONTRACTOR SHALL PROVIDE THREE (3) 1" INNERDUCT THROUGH 4" CONDUIT.
T10	APPROXIMATE LOCATION OF CITY OF GREELEY HANDHOLE "F1" FOR FIBER PATH 01, COORDINATE LOCATION WITH CITY OF GREELEY. CONDUIT SHALL ROUTE TO TR-28. CONTRACTOR SHALL PROVIDE THREE (3) 1" INNERDUCT THROUGH 4" CONDUIT.
T11	APPROXIMATE LOCATION OF CITY OF GREELEY HANDHOLE "F2" FOR FIBER PATH 02, COORDINATE LOCATION WITH CITY OF GREELEY. CONDUIT SHALL ROUTE TO TR-28. CONTRACTOR SHALL PROVIDE THREE (3) 1" INNERDUCT THROUGH 4" CONDUIT.



Owner
City of Greeley
1000 10th Street
Greeley, Colorado
80631
970.350.9777

Architect/Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect
DHM Design Corporation
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037



City of Greeley
GREELEY FIRE STATION #6

10603 20TH ST., GREELEY, CO 80634

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COMMUNICATIONS SITE PLAN

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Architectural floor plan showing a large central area labeled "APPARATUS BAY BELOW". The plan includes several rooms and areas:

- SHO. 139**: Shower room.
- FITNESS 232**: Fitness room.
- HOSE TOWER 128B**: Located in the bottom left corner.
- ROOF**: Multiple roof areas are indicated, including a large one on the right and smaller ones on the left and bottom right.

Key annotations and dimensions:

- CONDUIT PENETRATES INTO FITNESS ROOM AT 9' AFF**: Located near the shower room.
- (1) 4-INCH CONDUIT ROUTES ACROSS BAY AT 21' 6" AFF**: Located near the top center.
- CONDUIT ROUTED DOWN**: Two locations, one near the top right and one near the bottom left.
- (1) 2-INCH CONDUIT PENETRATION AT 9' AFF**: Located near the hose tower.
- +84" 1 1**: Multiple dimension lines indicating heights or offsets.
- W 2**: Located near the hose tower.
- T04**: A diamond-shaped symbol with the text "T04" inside, located in the center of the apparatus bay.

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T04 CONDUIT PATH SHOWN IS APPROXIMATE. PRECISE ROUTE SHALL BE COORDINATED WITH STRUCTURAL ENGINEER, ARCHITECT AND OTHER TRADES WITH CEILING EQUIPMENT.

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Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect
DHM Design Corporation
900 South Broadway
Denver, Colorado 80209
303.892.5566

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037



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LEVEL 2 COMMUNICATIONS FLOOR PLAN

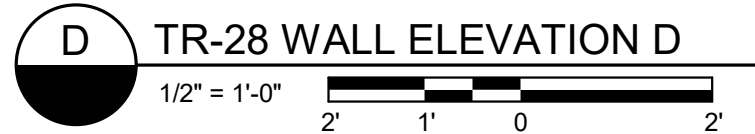
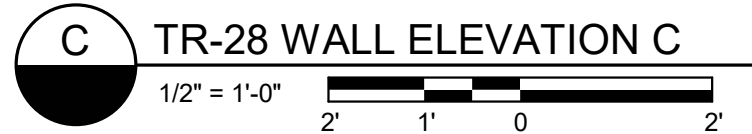
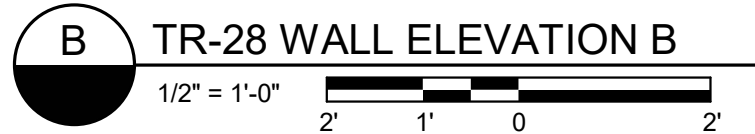
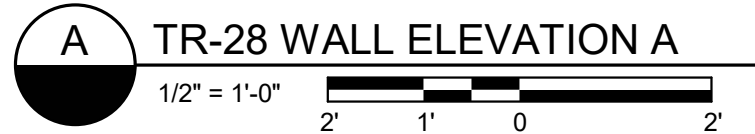
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WORK NOTES	
TC42	3/4" AC-GRADE, FIRE-RESISTIVE-TREATED PLYWOOD BACKBOARD. PAINT PLYWOOD WITH TWO COATS OF FIRE-RETARDANT WHITE PAINT. FIRE STAMP TO REMAIN VISIBLE.
TC50	WALL SPACE OBSTRUCTED BY EQUIPMENT AND/OR ARCHITECTURAL OR STRUCTURAL ELEMENTS.
TC53	CABLE RUNWAY MOUNTED VERTICALLY ON WALL BETWEEN PATHWAY THROUGH STRUCTURAL CEILING/FLOOR OR WALL AND HORIZONTAL CABLE RUNWAY TO SUPPORT CABLES. MOUNT WITH CROSS-MEMBERS OUT FROM WALL.
TE40	ELECTRICAL RECEPTACLES MOUNTED ON UNISTRUT LOCATED TOWARDS THE REAR OF THE RACKS (TYPICAL). UNISTRUT SUPPORTS POWER RECEPTACLES AND ASSOCIATED CIRCUITRY. SUPPORT UNISTRUT AT EACH END TO WALL AND EVERY 4 TO 5 FEET FROM CEILING WITH ALL-THREAD RODS. REFER TO THE ELECTRICAL CONSTRUCTION DOCUMENTS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
TE52	4-INCH OSP CONDUITS. REFER TO THE SITE PLAN AND TO CIVIL CONSTRUCTION DOCUMENTS FOR ADDITIONAL INFORMATION AND REQUIREMENTS, INCLUDING BUT NOT LIMITED TO CONDUIT QUANTITY AND ROUTING.
TE62	4-INCH CONDUIT SLEEVES THROUGH WALL. FILL ONE SLEEVE PRIOR TO FILLING NEXT SLEEVE. DO NOT MIX BACKBONE AND HORIZONTAL CABLES WITHIN THE SAME SLEEVE.

2 TR-28 RACK ELEVATION / SCHEDULE
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Owner
City of Greeley
1000 10th Street
Greeley, Colorado
80631
970.350.9777

Architect/ Civil Engineer/ Structural

Short Elliott Hendrickson, Inc.

2000 South Colorado Boulevard
Tower One, Suite 6000

Denver, Colorado 80222

720.540.6800

Landscape Architect

DHM Design Corporation
900 South Broadway

Denver, Colorado 80209
800.888.5588

Mechanical Engineer

The Ballard Group, Inc

2525 South Wadsworth
Lakewood, CO 80227

303.988.4514

Electrical Engineer

CMO Consulting Eng

11646 Sun Bear
Golden, CO 80401

303.875.4037



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BCER PROJECT 55519

City of Greeley
GREELEY FIRE STATION #6

10603 20TH ST., GREELEY, CO 80634

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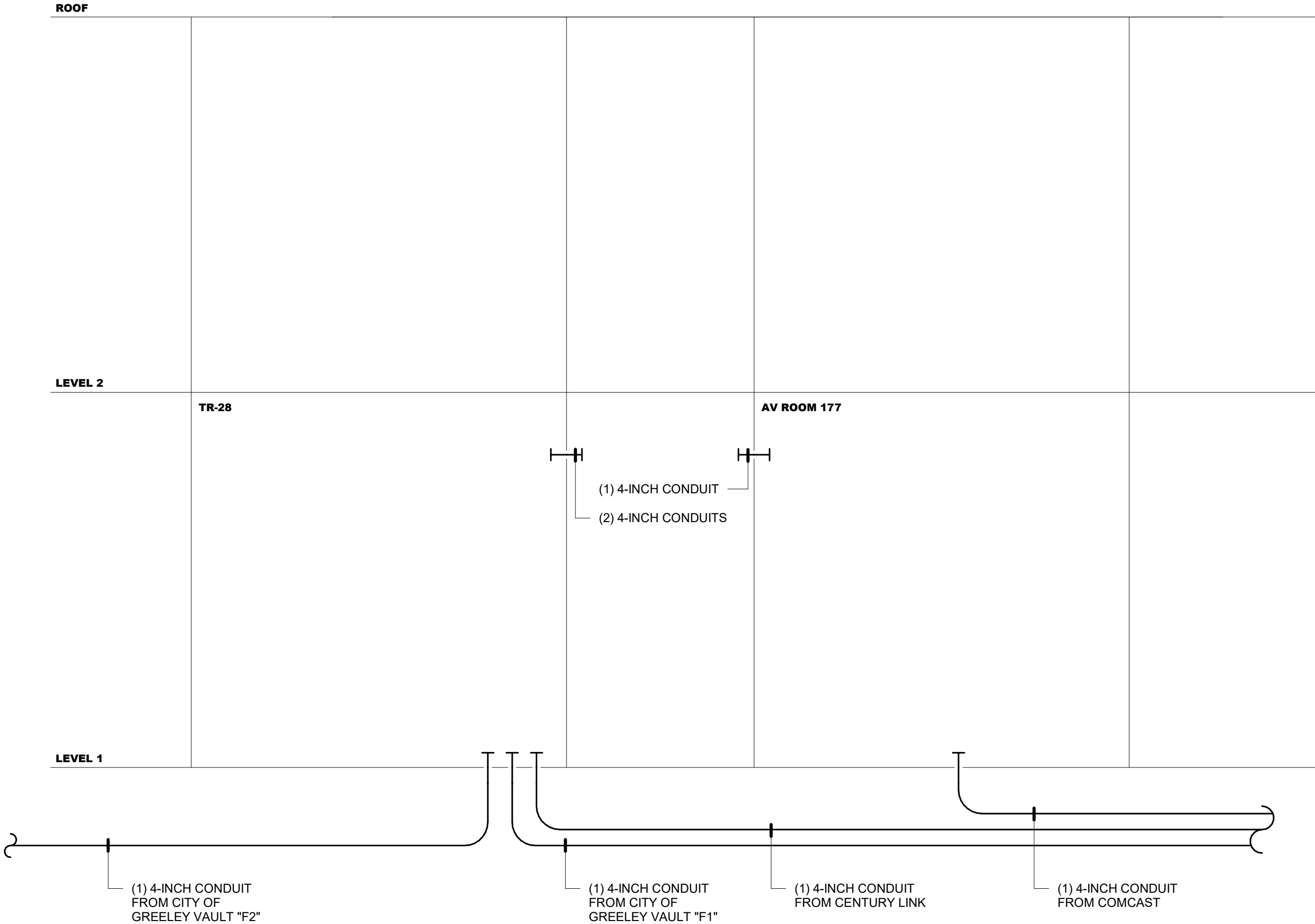
ENLARGED TELECOM ROOM

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BACKBONE CABLE DISTRIBUTION SCHEDULE												
ROOM 1	ROOM 2	SINGLEMODE FIBER		MULTIMODE FIBER (50 MICRON, OM4)		MULTIPAIR COPPER BACKBONE CABLING (CAT5E)		COAX	ADDITIONAL CABLING FOR SYSTEMS AS DESCRIBED			NOTES
		CABLE(S)	STRANDS	CABLE(S)	STRANDS	CABLE(S)	PAIRS	.500 CABLE	CABLE TYPE	STRANDS (ST) / PAIRS (PR) / CABLES (CB)		
STREET-F1	TR-28	1	24	--	--	--	--	--	--	--	--	1
STREET-F2												
GENERAL NOTES												
A PROVIDE THE CABLING LISTED FROM "ROOM 1" TO "ROOM 2".												
NOTES												
1 INSTALL FIBER PER CONDUIT ROUTE SHOWN ON SHEET T051												



1 COMMUNICATIONS BACKBONE PATHWAY DIAGRAM
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WORK NOTES



NOT FOR CONSTRUCTION

Owner
City of Greeley
1000 10th Street
Greeley, Colorado
80631
970.350.9777

Architect/ Civil Engineer/ Structural
Short Elliott Hendrickson, Inc.
2000 South Colorado Boulevard
Tower One, Suite 6000
Denver, Colorado 80222
720.540.6800

Landscape Architect
DHM Design Corporation
900 South Broadway
Denver, Colorado 80209
303.892.5566

Mechanical Engineer
The Ballard Group, Inc
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514

Electrical Engineer
CMO Consulting Eng
11646 Sun Bear Trail
Golden, CO 80403
303.875.4037



City of Greeley
GREELEY FIRE STATION #6
10603 20TH ST., GREELEY, CO 80634

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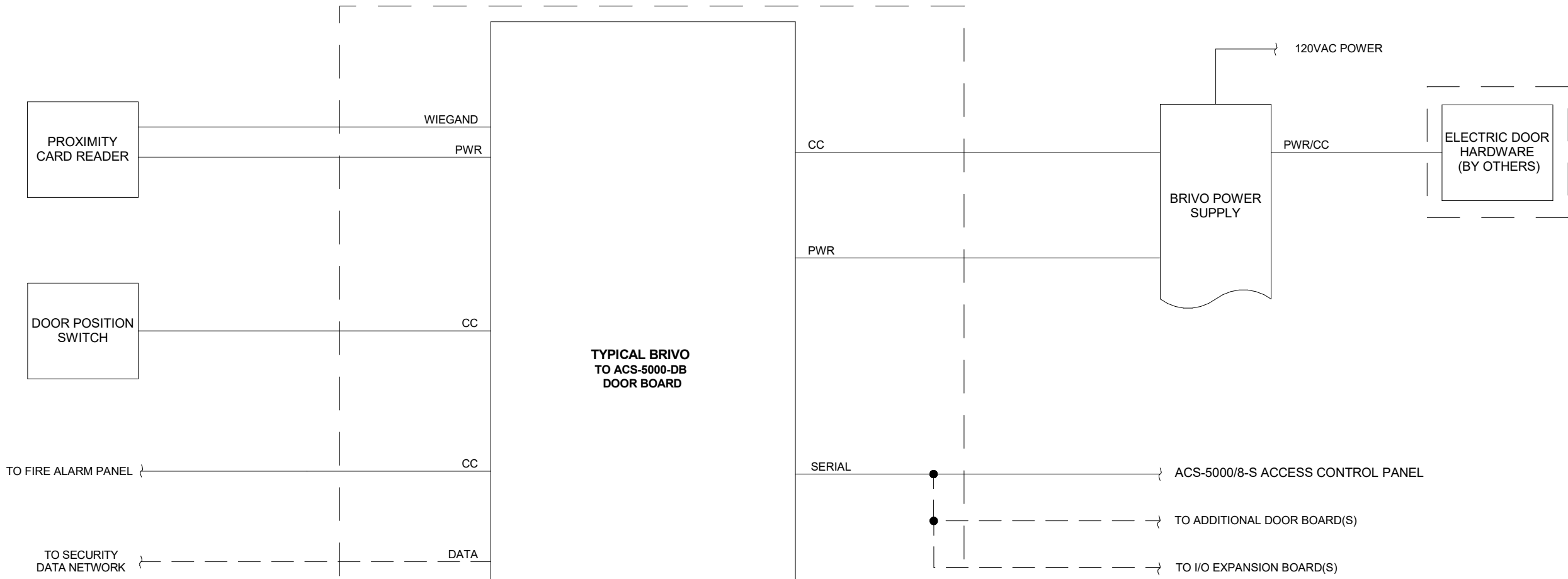
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COMMUNICATIONS BACKBONE
PATHWAY DIAGRAM

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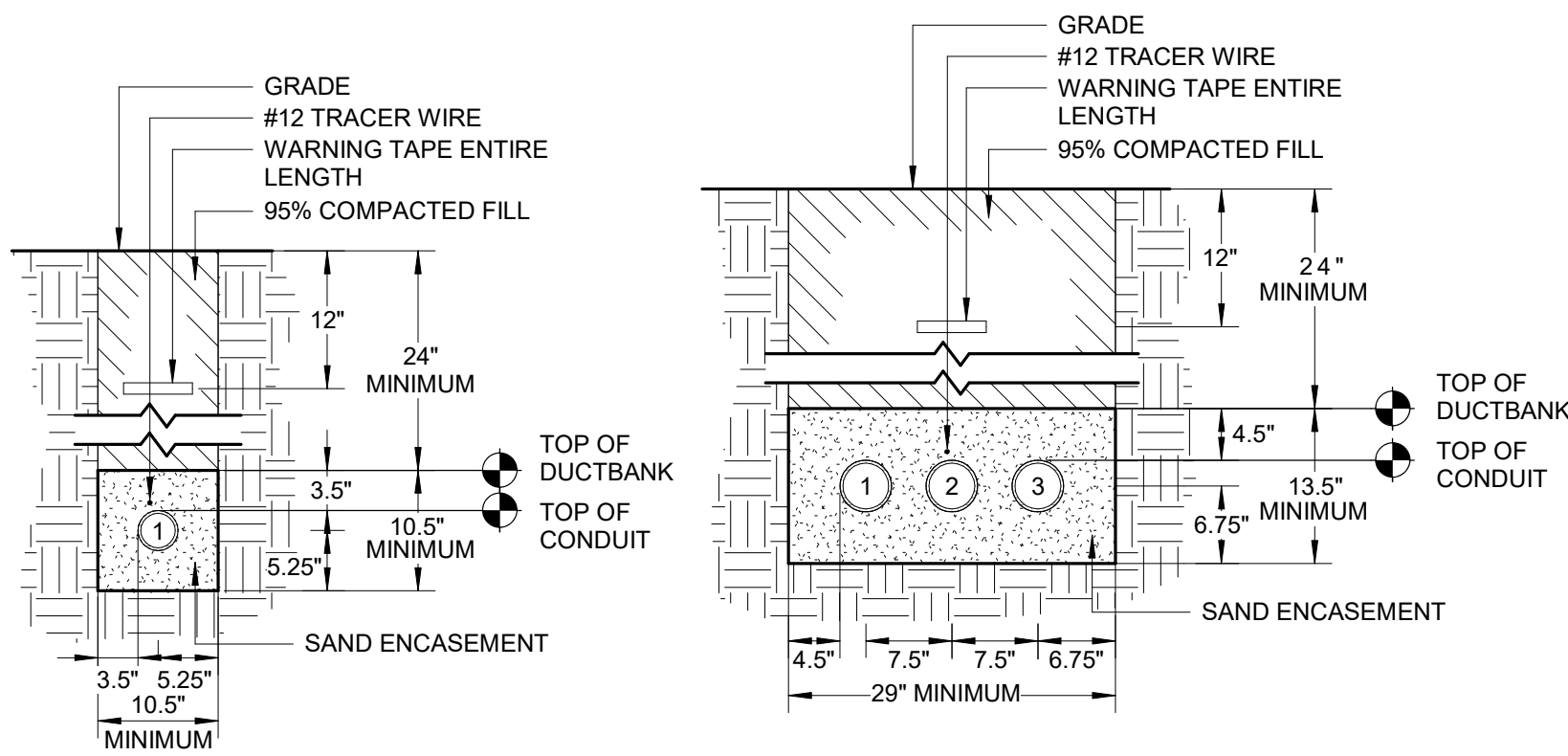


1 SECURITY ACS ONE-LINE DIAGRAM
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DETAIL GENERAL NOTES

- A. SUBMITTALS SHALL, AS A MINIMUM, INCLUDE:
- (a) SHOP DRAWING OF PROPOSED DUCT INTERFACE AT BUILDING AND VAULT.
 - (b) ORANGE METALLIC "COMMUNICATIONS" WARNING TAPE.
- B. PROVIDE NEAT TRENCH SUB-GRADE AND WALLS TO SERVE AS FORMS FOR ENCASEMENT.
- C. THE DUCT FORMATION SHALL BE BUILT UP LAYER BY LAYER. AFTER EACH LAYER IS PLACED, SAND SHALL BE SPREAD EVENLY AND COMPACTED TO THE DEPTH NEEDED TO PROVIDE CONTINUOUS SUPPORT FOR THE NEXT TIER OF DUCTS. SAND SHALL BE SPREAD EVENLY AND COMPACTED TO THE DEPTH INDICATED FOR THE FINAL TIER OF DUCTS. TO MAINTAIN UNIFORM CLEARANCE BETWEEN DUCTS, JOINTS SHALL BE OFFSET A MINIMUM OF 6 INCHES HORIZONTALLY.
- D. PLACE BACKFILL IN A MANNER TO AVOID DISLODGING SOIL FROM TRENCH WALLS. SAND ENCASE AND BACKFILL DUCTS IN ONLY ONE DIRECTION FROM ONE END TO THE OTHER TO PERMIT LONGITUDINAL MOVEMENT OF THE FREE END WITH EXPANSION.
- E. CONDUITS ARE TO BE PVC SCHEDULE 40. PROVIDE QUANTITY AND SIZE OF INNERDUCTS AS INDICATED ON <DUCTBANK CONDUIT SCHEDULE><VAULT PENETRATION SCHEDULE>.
- F. DO NOT INSTALL DUCT. PLACE ENCASEMENT MATERIAL, OR BACKFILL DURING INCLEMENT WEATHER CAUSING UNSUITABLE TRENCH CONDITIONS.
- G. PROVIDE PULL CORD (PULL TAPE, OR EQUAL) IN ALL CONDUITS, INCLUDING INNERDUCT.
- H. EACH DUCT SHALL BE CLEANED OF DEBRIS WITH A WIRE BRUSH OR SWAB AND SHALL BE PROVEN WITH A MINIMUM OF A 16 INCH LONG TEST MANDREL WHICH IS 1/4-INCH SMALLER THAN THE INSIDE DIAMETER OF THE DUCT. TEST MANDREL SHALL BE PULLED AFTER BACKFILLING BUT PRIOR TO REPLACEMENT OF LANDSCAPING. REPAIR ALL DUCTS THAT DO NOT PROVE TO BE CLEAN. DUCT SHALL BE CLEANED A MINIMUM OF TWO TIMES IN THE SAME DIRECTION AND SWABBED WITH CLEAN RAGS UNTIL RAG COMES OUT CLEAN AND DRY. SWAB AWAY FROM BUILDINGS FOR DUCTS CONNECTED TO BUILDINGS.
- I. AT VAULT INTERFACE DUCTBANKS SHALL TIE INTO LOWEST VAULT PENETRATIONS FIRST TO ALLOW FOR FUTURE ACCESS TO ANY REMAINING PENETRATIONS.



1 CONDUIT (1 X 1)

CONDUIT SCHEDULE

NO.	SIZE	DESCRIPTION	ROUTING
			FROM TO
1	4-INCH	FIBER: F2	OSP TR-28

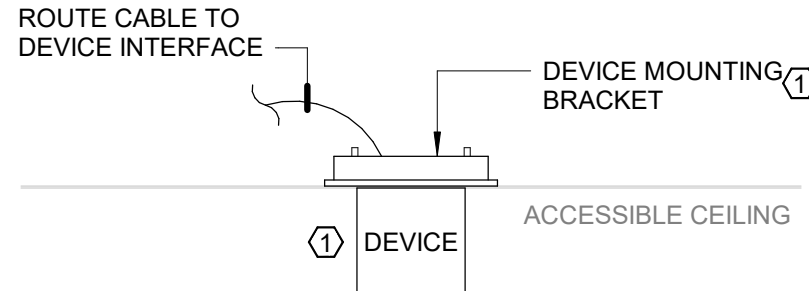
3 CONDUIT (1 X 3)

CONDUIT SCHEDULE

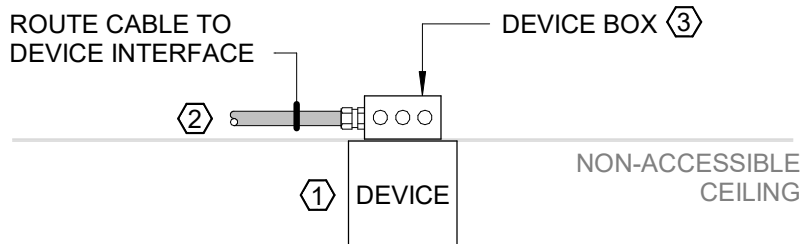
NO.	SIZE	DESCRIPTION	ROUTING
			FROM TO
1	4-INCH	CATV	OSP AV-177
2	4-INCH	COPPER	OSP TR-28
3	4-INCH	FIBER: F1	OSP TR-28

TE-SEDB SAND ENCASED DUCTBANK DETAILS

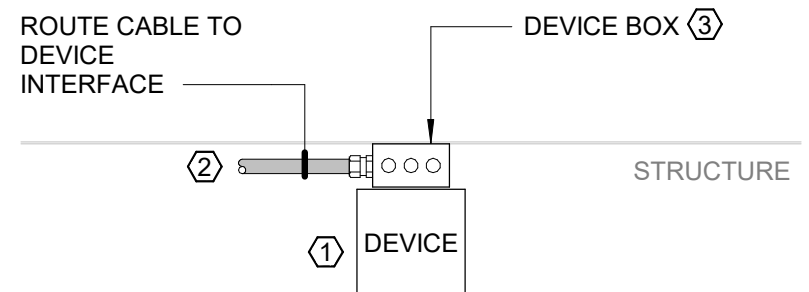
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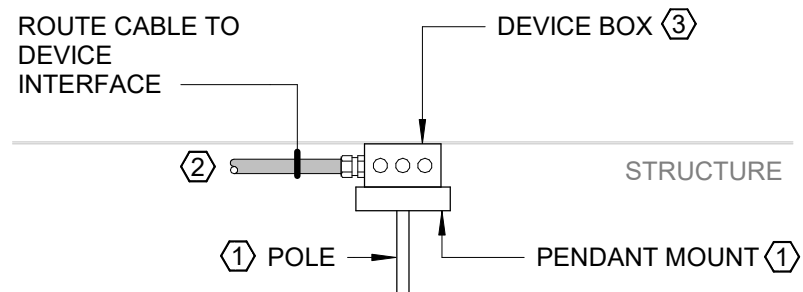
SECURITY DEVICE MOUNTING DETAIL - ACCESSIBLE CEILING



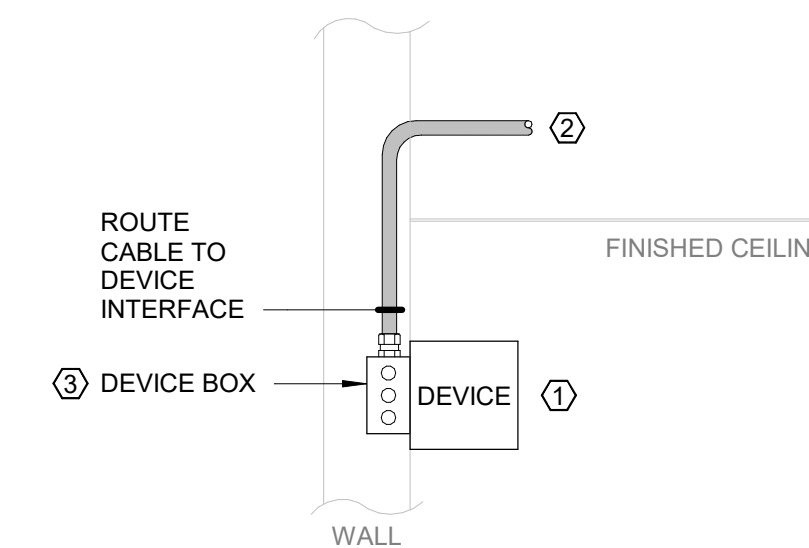
SECURITY DEVICE MOUNTING DETAIL - NON-ACCESSIBLE CEILING



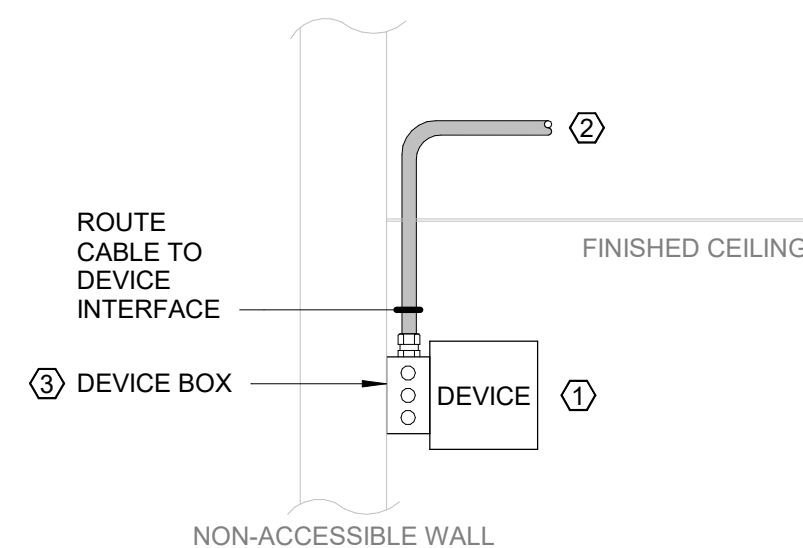
SECURITY DEVICE MOUNTING DETAIL - SURFACE



SECURITY DEVICE MOUNTING DETAIL - PENDANT



SECURITY DEVICE MOUNTING - WALL



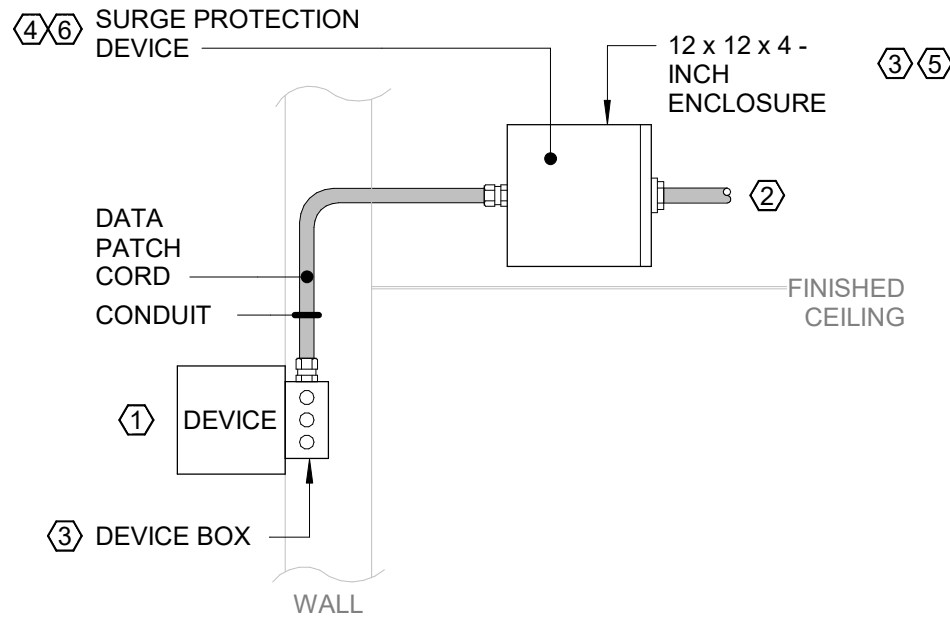
SECURITY DEVICE MOUNTING - NON-ACCESSIBLE WALL

DETAIL GENERAL NOTES

- A. REFER TO T-MH MOUNTING HEIGHT DETAIL FOR DEVICE MOUNTING HEIGHTS.

DETAIL DRAWING NOTES

1. DEVICE MOUNTING: PROVIDE DEVICE MOUNTING REQUIREMENTS PER MANUFACTURER RECOMMENDATIONS.
2. DEVICE CONDUIT: REFER TO TELECOM / DATA AND ELECTRICAL REQUIREMENTS FOR CONTINUATION OF CONDUIT.
3. DEVICE BOX AND ENCLOSURE MOUNTING: PROVIDE SECURED MOUNTING SUPPORT PER MOUNTING REQUIREMENTS INDICATED WITHIN ELECTRICAL DOCUMENTS.
4. GROUNDING CONDUIT: PROVIDE CONDUIT AS REQUIRED PER ELECTRICAL REQUIREMENTS.
5. ENCLOSURE: PROVIDE A PLENUM RATED ENCLOSURE WITHIN ACCESSIBLE LOCATION ABOVE CEILING. UTILIZE SECURITY SCREWS FOR COVER.
6. SURGE PROTECTION DEVICE: PROPERLY TERMINATE AND GROUND SURGE PROTECTION DEVICE BASED ON DEVICE REQUIREMENTS AND SPECIFIC APPLICATION.



SECURITY DEVICE MOUNTING - WALL EXTERIOR

TS-SD SECURITY ROUGH-IN DETAILS

SCALE: NONE

1:1 1/2 3/4 1/4

GREELEY FIRE STATION #6

10803 20TH ST., GREELEY, CO 80634

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