

CLEARHILLS FIREHALL

LOT 84 & 85, BLOCK 1, PLAN 07262595, CLEARDALE, CLEARHILLS COUNTY, AB

CIVIL
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SECTION 01001 GENERAL INSTRUCTIONS

- DOCUMENTS REQUIRED
 - MAINTAIN AT JOB SITE, ONE OF EACH OF THE FOLLOWING:
 - CONTRACT DRAWINGS.
 - SPECIFICATIONS.
 - ADDENDA.
 - REVIEWED SHOP DRAWINGS.
 - CHANGE ORDERS.
 - OTHER MODIFICATIONS TO CONTRACT.
 - FIELD TEST REPORTS.
 - COPY OF APPROVED WORK SCHEDULE.
 - MANUFACTURERS INSTALLATION AND APPLICATION INSTRUCTIONS.
- CONTRACTOR'S USE OF SITE
 - USE OF THE SITE: EXCLUSION AND COMPLETE FOR EXECUTION OF WORK EXCEPT AS FOLLOWS:
 - ACCESS FOR INSTALLATION OF SITE UTILITY SERVICES CONTRACTORS.
 - ACCESS FOR OTHER CONTRACTORS HAVING A SEPARATE CONTRACT WITH THE OWNER.
 - DO NOT UNREASONABLY ENCUMBER SITE WITH MATERIALS OR EQUIPMENT.
 - MOVE STORED PRODUCTS OR EQUIPMENT WHICH INTERFERE WITH OPERATION OF OTHER CONTRACTORS.
 - OBTAIN AND PAY FOR USE OF ADDITIONAL STORAGE OR WORK AREAS NEEDED FOR OPERATIONS.
 - MAINTAIN SAFETY HELMETS ON THE JOB SITE, READY FOR USE.
 - ENCINE APPARATUS, THE STORAGE OF MATERIALS, AND THE OPERATION OF WORKMEN TO LIMITS INDICATED BY LAW OR BY DIRECTION OF THE OWNER. DO NOT UNREASONABLY ENCUMBER THE PREMISES WITH MATERIALS.
 - ENFORCE THE OWNER'S INSTRUCTIONS REGARDING SIGNS, ADVERTISEMENTS, FIRES AND SMOKING.
- ACCESS TO THE WORK
 - THE CONSULTANT, THE OWNER OR OTHER AUTHORIZED OFFICERS DELEGATED WILL HAVE ACCESS TO THE WORK, OR OTHER PLACES WHERE WORK IS BEING FABRICATED IN CONNECTION WITH THE CONTRACT, AT ALL TIMES FOR THE PURPOSES OF INSPECTION AND EXAMINATION OF WORKMANSHIP AND MATERIALS.
- CODES AND STANDARDS
 - PERFORM WORK IN ACCORDANCE WITH THE PROVINCIAL BUILDING CODE LATEST EDITION AND ANY OTHER CODE OF PROVINCIAL OR LOCAL APPLICATION PROVIDED THAT IN ANY CASE OF CONFLICT OR DISCREPANCY, MORE STRINGENT REQUIREMENTS SHALL APPLY.
 - REFER TO INDIVIDUAL SECTIONS OF SPECIFICATIONS FOR PARTICULAR REFERENCE OF SPECIFICALLY APPLICABLE CODES AND STANDARDS FOR THE PERFORMANCE OF THE WORK.
 - MEET OR EXCEED REQUIREMENTS OF SPECIFIED STANDARDS, CODES AND REFERENCED DOCUMENTS.
- SETTING OUT OF WORK
 - ASSUME FULL RESPONSIBILITY FOR AND EXECUTE COMPLETE LAYOUT OF WORK TO LOCATIONS, LINES AND ELEVATIONS INDICATED.
 - THE CARE OF THE WORKS SHALL REST WITH THE CONTRACTOR.
 - BE RESPONSIBLE FOR LOSS OR DAMAGE TO THE BUILDING AND/OR STORED MATERIALS AND FOR DAMAGE CAUSED BY FROST OR INCLEMENT WEATHER.
 - PROVIDE DEVICES NEEDED TO LAYOUT AND CONSTRUCT WORK.
 - SUPPLY STAKES AND OTHER SURVEY MARKERS REQUIRED FOR LAYOUT WORK.
- LOCATION OF EQUIPMENT AND FIXTURES
 - LOCATION OF EQUIPMENT, FIXTURES AND OUTLETS INDICATED OR SPECIFIED ARE TO BE CONSIDERED AS APPROXIMATE.
 - LOCATE EQUIPMENT, FIXTURES AND DISTRIBUTION SYSTEMS TO PROVIDE MINIMUM INTERFERENCE AND MAXIMUM USABLE SPACE AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR SAFETY, ACCESS AND MAINTENANCE.
 - INFORM CONSULTANT OF IMPENDING INSTALLATION AND OBTAIN HIS APPROVAL FOR ACTUAL LOCATION.
 - SUBMIT A FIELD DRAWING TO INDICATE RELATIVE POSITION OF VARIOUS SERVICES AND EQUIPMENT WHEN REQUESTED BY CONSULTANT.
- CUTTING, FITTING AND PATCHING
 - EXECUTE CUTTING (INCLUDING EXCAVATION), FITTING AND PATCHING REQUIRED TO MAKE WORK FIT PROPERLY TOGETHER INCLUDING SUCH WORK AS REQUIRED FOR ELECTRICAL AND MECHANICAL SERVICES AND FACILITIES.
 - WHERE NEW WORK CONNECTS WITH EXISTING AND WHERE EXISTING WORK IS ALTERED, CUT, PATCH AND MAKE GOOD TO MATCH EXISTING WORK.
 - OBTAIN CONSULTANT'S WRITTEN APPROVAL BEFORE CUTTING, BORING OR SLEEVING LOAD-BEARING MEMBERS.
 - MAKE CUTS WITH CLEAN, TRUE, SMOOTH EDGES. MAKE PATCHES INCONSPICUOUS IN FINAL ASSEMBLY.
 - FIT WORK AIRTIGHT TO PIPES, SLEEVES, DUCTS AND CONDUITS AND MAINTAIN INTEGRITY OF ALL FIRE SEPARATIONS, AIR AND VAPOUR BARRIERS.
- CONCEALMENT
 - CONCEAL PIPES, DUCTS AND WIRING IN FLOOR, WALL AND CEILING CONSTRUCTION OF FINISHED AREAS EXCEPT WHERE INDICATED OTHERWISE.
- EXISTING SERVICES
 - WHERE WORK INVOLVES BREAKING INTO OR CONNECTING TO EXISTING SERVICES, CARRY OUT WORK AT TIMES DIRECTED BY GOVERNING AUTHORITIES, WITH MINIMUM OF DISTURBANCE TO PEDESTRIAN AND VEHICULAR TRAFFIC.
 - BEFORE COMMENCING WORK, ESTABLISH LOCATION AND EXTENT OF SERVICE LINES IN AREA OF WORK AND NOTIFY CONSULTANT OF FINDINGS.
 - SUBMIT SCHEDULE TO AND OBTAIN APPROVAL FROM OWNER FOR ANY SHUT-DOWN OR CLOSURE OF ACTIVE SERVICE OR FACILITY. ADHERE TO APPROVED SCHEDULE AND PROVIDE NOTICE TO AFFECTED PARTIES. PERFORM ALL WORK WITH MINIMUM INTERRUPTION TO OWNER AND USE OF SERVICES.
 - WHERE UNKNOWN SERVICES ARE ENCOUNTERED, IMMEDIATELY ADVISE CONSULTANT AND CONFIRM FINDINGS IN WRITING.
 - REMOVE ABANDONED SERVICE LINES WITHIN 2 M OF STRUCTURES. CAP OR OTHERWISE SEAL LINES AT CUT-OFF POINTS AS DIRECTED BY CONSULTANT.
 - RECORD LOCATIONS OF MAINTAINED, RE-ROUTED AND ABANDONED SERVICE LINES.
 - AVOID THERMAL SHOCK TO HEATING SYSTEMS. COORDINATE WITH OWNER DURING PLANNING, CONSTRUCTION AND OPERATION OF TEMPORARY HEATING SYSTEM, INCLUDING TEMPORARY AND TRIAL USAGE.
 - ENSURE APPROVAL OF TEMPORARY HEATING SYSTEMS FROM BOILER PROTECTION BRANCH - DEPARTMENT OF LABOUR - GOVERNMENT HAVING JURISDICTION.

SECTION 01001 GENERAL INSTRUCTIONS - CONT'D

- ALTERATIONS, ADDITIONS OR REPAIRS TO EXISTING BUILDING
 - EXECUTE WORK WITH LEAST POSSIBLE INTERFERENCE OR DISTURBANCE TO OCCUPANTS, PUBLIC AND NORMAL USE OF PREMISES. ARRANGE WITH CONSULTANT TO FACILITATE EXECUTION OR WORK.
 - WHERE SECURITY HAS BEEN REDUCED BY WORK OF CONTRACT, PROVIDE TEMPORARY MEANS TO MAINTAIN SECURITY.
 - PROVIDE TEMPORARY DUST SCREENS, BARRIERS, WARNING SIGNS IN LOCATIONS WHERE RENOVATION AND ALTERATION WORK IS ADJACENT TO AREAS USED BY PUBLIC OR GOVERNMENT STAFF.
 - CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE CARE, CUSTODY AND CONTROL OF PROPERTY WHICH IS ASSIGNED TO HIM FOR PERFORMANCE OF THE WORK.
 - CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR AND SHALL MAKE GOOD DAMAGE TO EXISTING PROPERTY ATTRIBUTABLE TO PERFORMANCE OF WORK OF THIS CONTRACT.
- TEMPORARY OR TRIAL USAGE
 - TEMPORARY OR TRIAL USAGE BY THE OWNER OF MECHANICAL EQUIPMENT AND ELECTRICAL EQUIPMENT SUPPLIED UNDER CONTRACT SHALL NOT REPRESENT ACCEPTANCE.
 - REPAIR TO NEW CONDITION OR REPLACE PERMANENT EQUIPMENT USED TEMPORARILY.
 - TAKE RESPONSIBILITY FOR DAMAGE CAUSED BY DEFECTIVE MATERIALS OR WORKMANSHIP DURING TEMPORARY OR TRIAL USAGE.
- ADDITIONAL DRAWINGS
 - CONSULTANT MAY FURNISH ADDITIONAL DRAWINGS TO ASSIST PROPER EXECUTION OF WORK. THESE DRAWINGS WILL BE ISSUED FOR CLARIFICATION ONLY. SUCH DRAWINGS SHALL HAVE SAME MEANING AND INTENT AS IF THEY WERE INCLUDED WITH PLANS REFERRED TO IN CONTRACT DOCUMENTS.
- SITE DIVERSITY
 - SUBSURFACE CONDITIONS
 - PROMPTLY NOTIFY THE CONSULTANT IN WRITING IF THE SUB-SURFACE CONDITIONS AT THE PROJECT SITE DIFFER SUBSTANTIALLY FROM THOSE INDICATED IN THE CONTRACT DOCUMENTS OR SOIL REPORTS OR REPRESENTED TO THE CONTRACTOR BEFORE SUBMISSION OF TENDER.
 - AFTER INVESTIGATION, SHOULD THE CONSULTANT AGREE THAT CONDITIONS DO DIFFER SUBSTANTIALLY, APPROPRIATE INSTRUCTIONS FOR CHANGES IN THE WORK WILL BE ISSUED.
 - RELICS AND ANTIQUITIES
 - RELICS AND ANTIQUITIES AND ITEMS OF HISTORICAL OR SCIENTIFIC INTEREST SUCH AS CORNERSTONES AND CONTENTS, COMMEMORATIVE PLACES, INSCRIBED TABLETS, AND SIMILAR OBJECTS FOUND ON SITE OR IN BUILDINGS TO BE DEMOLISHED, SHALL REMAIN PROPERTY OF THE OWNER. PROTECT SUCH ARTICLES AND REQUEST DIRECTIVES FROM CONSULTANT.
 - GIVE IMMEDIATE NOTICE TO CONSULTANT IF EVIDENCE OF ARCHEOLOGICAL FINDS ARE ENCOUNTERED DURING CONSTRUCTION, AND AWAIT HIS WRITTEN INSTRUCTIONS BEFORE PROCEEDING WITH WORK IN THIS AREA.
- COORDINATION (SEE ALSO SECTION 01040)
 - CONTRACTOR IS REQUIRED TO PROVIDE FULL COOPERATION AND ASSISTANCE TO ALL SUB-TRADES, IN THE LAYING OUT OF WORK.
 - CONTRACTOR TO COORDINATE THE WORK OF ALL TRADES WITH EFFICIENT AND CONTINUOUS SUPERVISION.
- ENVIRONMENT POLLUTION CONTROL
 - THE CONTRACTOR SHALL COMPLY WITH "THE PUBLIC HEALTH ACT" AND AMENDMENTS THERETO AND THE "PROVINCIAL BOARD OF HEALTH REGULATIONS" PUBLISHED UNDER THE AUTHORITY OF "THE PUBLIC HEALTH ACT", IN RESPECT TO POLLUTION CONTROL.
 - THE FOLLOWING SHALL BE STRICTLY ENFORCED:
 - KEEP BUILDING SITE CLEAN AND FREE OF UNSIGHTLY AND/OR UNSAFE COLLECTION OF WASTE MATERIALS AND DEBRIS.
 - PROVIDE FOR COLLECTION AND TEMPORARY STORAGE OF WASTE MATERIALS AND DEBRIS, IN METAL CONTAINERS WITH LIDS.
 - DISPOSE OF WASTE MATERIALS AND DEBRIS TO THE LOCAL AUTHORITIES' POLLUTION CONTROL FACILITIES.
 - DO NOT ALLOW WASTE MATERIALS AND DEBRIS TO REACH AND CONTAMINATE ADJACENT PROPERTIES OR SPACE NOT BEING MODERNIZED AT THAT TIME WITHIN THE FACILITY.
 - DO NOT BURN WASTE MATERIALS AND DEBRIS ON THE JOBSITE.
 - DO NOT THROW WASTE MATERIALS AND DEBRIS INTO BROOKS, STREAMS, RIVERS, PONDS OR LAKES.
- OVERLOADING
 - DO NOT LOAD OR PERMIT TO BE LOADED ANY PART OF THE WORK WITH A WEIGHT THAT WILL ENDANGER ITS SAFETY.
 - SHOULD ANY ACCIDENT OCCUR BY VIOLATION OF THESE REQUIREMENTS, THE CONTRACTOR WILL BE HELD RESPONSIBLE AND LIABLE.
- CLEANING OF STREETS
 - TAKE PRECAUTION TO PREVENT THE DEPOSITING OF MUD ON AN ROADWAYS LEADING FROM THE SITE. ANY MUD OR DEBRIS DEPOSITED SHALL BE CLEANED UP IMMEDIATELY. NEGLIGENCE OF THIS REQUIREMENT WILL CAUSE THE OWNER TO HAVE THE NECESSARY CLEAN-UP WORK CARRIED OUT AND CHARGE ALL COSTS TO THE CONTRACTOR.
 - THE ABOVE REQUIREMENT ALSO APPLIES TO ROADWAYS OR PAVÉ AREAS ON SITE.
- PUBLICITY
 - ALL PUBLICITY RELATING TO THIS PROJECT IS SUBJECT TO THE APPROVAL OF THE OWNER.
 - NO MENTION OF THE PROJECT IN ADVERTISING OR ARTICLES IN ANY PUBLICATION WILL BE PERMITTED UNLESS APPROVED BY THE OWNER.
 - PUBLICITY OR ADVERTISING IMPLYING ENDORSEMENT OF A PRODUCT BY THE OWNER WILL NOT BE PERMITTED.

SECTION 01040 COORDINATION OF WORK

- GENERAL COORDINATION
 - COORDINATE ALL CONSTRUCTION ACTIVITIES AS REQUIRED TO ENSURE EFFICIENT AND ORDERLY INSTALLATION OF EACH PART OF THE WORK.
 - WHERE INSTALLATION OF ONE PART OF THE WORK IS DEPENDENT ON INSTALLATION OF OTHER COMPONENTS, EITHER BEFORE OR AFTER ITS OWN INSTALLATION, SCHEDULE AND COORDINATE CONSTRUCTION ACTIVITIES IN THE SEQUENCE REQUIRED TO OBTAIN THE BEST RESULTS.
 - WHERE AVAILABILITY OF SPACE IS LIMITED, COORDINATE INSTALLATION OF DIFFERENT COMPONENTS TO ASSURE MAXIMUM ACCESSIBILITY FOR REQUIRED MAINTENANCE, SERVICE AND REPAIR.
 - MAKE ADEQUATE PROVISIONS TO ACCOMMODATE ITEMS SCHEDULED FOR LATER INSTALLATION UNDER SEPARATE CONTRACT OR BY OWNER'S OWN FORCES.
- ADMINISTRATIVE PROCEDURES
 - COORDINATE SCHEDULING AND TIMING OF REQUIRED ADMINISTRATIVE PROCEDURES WITH OTHER CONSTRUCTION ACTIVITIES TO AVOID CONFLICTS AND ENSURE ORDERLY PROGRESS OF THE WORK. SUCH ADMINISTRATIVE ACTIVITIES SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
 - PREPARATION OF SCHEDULES.
 - INSTALLATION AND REMOVAL OF TEMPORARY FACILITIES.
 - DELIVERY AND PROCESSING OF SUBMITTALS.
 - PROGRESS MEETINGS.
 - CONTRACT ACCEPTANCE PROCEDURES.
- GENERAL INSTALLATION PROVISIONS
 - REQUIRE THE INSTALLER OF EACH MAJOR COMPONENT TO INSPECT BOTH THE SUBSTRATE AND CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN AN ACCEPTABLE MANNER.
 - COMPLY WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS, TO THE EXTENT THAT THOSE INSTRUCTIONS AND RECOMMENDATIONS ARE MORE EXPLICIT OR STRINGENT THAN REQUIREMENTS CONTAINED IN CONTRACT DOCUMENTS.
 - INSPECT MATERIALS IMMEDIATELY UPON DELIVERY AND AGAIN PRIOR TO INSTALLATION. REJECT DAMAGED AND DEFECTIVE ITEMS.
 - PROVIDE ATTACHMENT AND CONNECTION DEVICES AND METHODS NECESSARY FOR SECURING WORK. SECURE WORK TRUE TO LINE AND LEVEL. ALLOW FOR EXPANSION AND BUILDING MOVEMENT.
 - PROVIDE UNIFORM JOINT WIDTHS IN EXPOSED WORK. ARRANGE JOINTS IN EXPOSED WORK TO OBTAIN THE BEST VISUAL EFFECT. REFER QUESTIONABLE CHOICES TO CONSULTANT FOR FINAL DECISION.
 - INSTALL EACH COMPONENT DURING WEATHER CONDITIONS AND PROJECT STATUS THAT WILL ENSURE THE BEST POSSIBLE RESULTS. ISOLATE EACH PART OF THE COMPLETED CONSTRUCTION FROM INCOMPATIBLE MATERIAL AS NECESSARY TO PREVENT DETERIORATION.
 - COORDINATE TEMPORARY ENCLOSURES WITH REQUIRED INSPECTIONS AND TESTS, TO MINIMIZE THE NECESSITY OF UNCOVERING COMPLETED CONSTRUCTION FOR THAT PURPOSE.
 - WHERE MOUNTING HEIGHTS ARE NOT INDICATED, INSTALL INDIVIDUAL COMPONENTS AT STANDARD MOUNTING HEIGHTS RECOGNIZED WITHIN THE INDUSTRY FOR THE PARTICULAR APPLICATION INDICATED. REFER QUESTIONABLE MOUNTING HEIGHT DECISIONS TO THE CONSULTANT FOR FINAL DECISION.
 - SUPERVISE CONSTRUCTION ACTIVITIES TO ENSURE THAT NO PART OF THE WORK COMPLETED OR IN PROGRESS, IS SUBJECT TO HARMFUL, DANGEROUS OR OTHERWISE DELETERIOUS EXPOSURE DURING THE CONSTRUCTION PERIOD.

SECTION 01060 REGULATORY REQUIREMENTS

- DEFINITIONS
 - REGULATORY REQUIREMENTS MEANS LAWS, ORDINANCES, RULES, REGULATIONS, ORDERS, CODES AND OTHER LEGALLY ENFORCEABLE REQUIREMENTS IN EFFECT AT THE PLACE OF WORK AND APPLICABLE TO THE PERFORMANCE OF THE WORK.
- GENERAL
 - EXCEPT AS OTHERWISE INDICATED IN CONTRACT DOCUMENTS, CONTRACTOR SHALL:
 - COMPLY WITH REGULATORY REQUIREMENTS AND
 - PAY ALL FEES ASSOCIATED THEREWITH WHICH ARE IN FORCE AND LAWFULLY PROJECT NAME, DATE AND LIST OF CONTENTS.
 - THE OWNER SHALL OBTAIN PERMANENT EASEMENTS AND RIGHTS OF SERVITUDE WHICH MAY BE REQUIRED FOR PERFORMANCE OF THE WORK.
- CONTRACT DOCUMENTS
 - CONTRACTOR SHALL NOT BE RESPONSIBLE FOR VERIFYING THAT CONTRACT DOCUMENT COMPLY WITH REGULATORY REQUIREMENTS. IF CONTRACT DOCUMENTS ARE AT VARIANCE THEREWITH, OR CHANGES, WHICH REQUIRE MODIFICATION TO CONTRACT DOCUMENTS ARE MADE TO REGULATORY REQUIREMENTS BY AUTHORITIES HAVING JURISDICTION, SUBSEQUENT TO DATE OF TENDER CLOSING, CONTRACTOR SHALL NOTIFY CONSULTANT IN WRITING, REQUESTING DIRECTION, IMMEDIATELY AS SUCH VARIANCE OR CHANGE BECOMES KNOWN TO HIM. CONSULTANT MAY MAKE CHANGES REQUIRED TO CONTRACT DOCUMENTS, AND ANY RESULTING CHANGE IN CONTRACT PRICE OR CONTRACT TIME WILL BE MADE IN ACCORDANCE WITH THE GENERAL CONDITIONS OF CONTRACT.
 - IF CONTRACTOR FAILS TO NOTIFY CONSULTANT IN WRITING AND OBTAIN CONSULTANT'S DIRECTION AS REQUIRED IN PARAGRAPH 3.1 AND PERFORMS WORK KNOWING IT TO BE CONTRARY TO REGULATORY REQUIREMENTS, CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL CORRECT VIOLATIONS THEREOF AND SHALL BEAR COSTS, EXPENSES AND DAMAGES ATTRIBUTABLE TO HIS FAILURE TO COMPLY WITH PROVISIONS OF SUCH REGULATORY REQUIREMENTS.
- PROVINCIAL BUILDING CODE
 - CONFORM TO AND PERFORM WORK IN ACCORDANCE WITH THE PROVINCIAL BUILDING CODE, EXCEPT AS OTHERWISE INDICATED IN CONTRACT DOCUMENTS.
- PERMITS
 - DEVELOPMENT PERMIT:
 - OWNER SHALL APPLY FOR, PAY FOR AND OBTAIN DEVELOPMENT PERMIT.
 - BUILDING PERMIT:
 - CONTRACTOR SHALL APPLY FOR, OBTAIN AND PAY FOR BUILDING PERMIT AND OTHER PERMITS REQUIRED FOR THE WORK AND ITS VARIOUS PARTS.
 - CONTRACTOR SHALL DISPLAY THE BUILDING PERMIT AND SUCH OTHER PERMITS IN A CONSPICUOUS LOCATION AT THE WORK SITE.
- NOTICES, LICENSES AND CERTIFICATES
 - CONTRACTOR SHALL GIVE REQUIRED NOTICES WHICH RELATE TO THE WORK, TO THE PRESERVATION OF PUBLIC HEALTH AND TO CONSTRUCTION SAFETY.
 - CONTRACTOR SHALL OBTAIN AND PAY FOR LICENSES, CERTIFICATES AND APPROVALS REQUIRED BY AUTHORITIES HAVING JURISDICTION AND THE CONTRACT DOCUMENTS.

SECTION 01310 SUBMITTALS

- SHOP DRAWINGS
 - THE TERM "SHOP DRAWINGS" MEANS DRAWINGS, DIAGRAMS, ILLUSTRATIONS, SCHEDULES, PERFORMANCE CHARTS, BROCHURES AND OTHER DATA WHICH ARE TO BE PROVIDED BY THE CONTRACTOR TO ILLUSTRATE DETAILS OF A PORTION OF THE WORK.
 - THE CONTRACTOR SHALL ARRANGE FOR THE PREPARATION OF CLEARLY IDENTIFIED SHOP DRAWINGS AS CALLED FOR BY THE CONTRACT DOCUMENTS AND FOR SUCH OTHER ITEMS AS THE CONSULTANT MAY REASONABLY REQUEST.
 - SHOP DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH THE MANUAL ON METRIC BUILDING DRAWINGS PRACTICE PUBLISHED BY THE NATIONAL RESEARCH COUNCIL OF CANADA. CONFORMANCE WITH SECTION 4.1 TO 4.9 OF THE MANUAL IS NOT MANDATORY.
 - PRIOR TO SUBMISSION TO THE CONSULTANT, THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS. BY THIS REVIEW, THE CONTRACTOR CERTIFIES THAT HE HAS DETERMINED AND VERIFIED ALL FIELD MEASUREMENTS, FIELD CONSTRUCTION CRITERIA, MATERIALS, CATALOGUE NUMBERS AND SIMILAR DATA, AND CERTIFIES THAT HE HAS CHECKED AND COORDINATED EACH SHOP DRAWING WITH THE REQUIREMENTS OF THE WORK AND OF THE CONTRACT DOCUMENTS. THE CONTRACTOR'S REVIEW OF EACH SHOP DRAWING SHALL BE INDICATED BY STAMP, DATE AND SIGNATURE OF A RESPONSIBLE PERSON.
 - NOT LESS THAN SIX (6) COPIES OF SHOP DRAWINGS SHALL BE SUBMITTED THROUGH THE CONTRACTOR TO THE CONSULTANT. IN ADDITION, THE CONTRACTOR, IF HE DEEMS NECESSARY, SHALL ARRANGE WITH HIS SUB-CONTRACTORS FOR ANY ADDITIONAL COPIES OF SHOP DRAWINGS THAT HE (THE CONTRACTOR) SHALL REQUIRE. THE SHOP DRAWINGS, WHEN SUBMITTED TO THE CONSULTANT, SHALL BEAR THE DATE STAMP OF, AND BE CHECKED BY, THE CONTRACTOR.
 - WHEN SUBMITTING THE SHOP DRAWINGS THE CONTRACTOR SHALL NOTIFY THE CONSULTANT IN WRITING, ON THE SHOP DRAWING, OF ANY CHANGES THAT HE HAS MADE, FROM THAT WHICH HAS BEEN CALLED FOR IN THE DRAWINGS AND SPECIFICATIONS. FAILURE OF THE CONTRACTOR TO CHECK OR HAVE CORRECTED OR INDICATED ANY CHANGE AND VARIATION, IN SUBMITTING SHOP DRAWINGS, WILL RESULT IN THEIR RETURN TO THE CONTRACTOR WITHOUT CONSIDERATION OR CHECKING BY THE CONTRACTOR.
 - IF THE SHOP DRAWINGS ARE REJECTED BY THE CONSULTANT HE WILL RETURN ONE (1) COPY TO THE CONTRACTOR, AND RETAIN ONE (1) COPY. ALL OTHER COPIES WILL BE DESTROYED.
 - THE CONTRACTOR SHALL RE-SUBMIT NOT LESS THAN FOUR (4) COPIES PLUS ANY ADDITIONAL COPIES, AS BEFORE DESCRIBED, OF THE REVISED SHOP DRAWINGS.
 - AFTER REVIEW, THE CONSULTANT WILL RETAIN TWO (2) COPIES AND RETURN THE REMAINING COPIES TO THE CONTRACTOR, WHO SHALL THEN DISTRIBUTE THE APPROVED SHOP DRAWINGS TO ALL PARTIES CONCERNED.
 - THE CONSULTANT'S REVIEW OF SUCH DRAWINGS OR OF THE REVISED DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERROR OR FOR CHANGES MADE FROM THE CONSULTANT'S DRAWINGS OR SPECIFICATIONS.
 - THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE CONSULTANT FOR HIS REVIEW WITH REASONABLE PROMPTNESS. THE CONSULTANT SHALL HAVE A MINIMUM OF FIVE WORKING DAYS EXCLUDING SATURDAY AND SUNDAY FOR SUCH REVIEW. SHOP DRAWINGS SHALL BE SUBMITTED IN THE FORM OF REPRODUCIBLE TRANSPARENCIES OR PRINTS AS THE CONSULTANT MAY DIRECT. THE CONSULTANT SHALL NOTIFY THE CONTRACTOR SHALL NOTIFY THE CONSULTANT IN WRITING OF ANY DEVIATIONS IN THE SHOP DRAWINGS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- SAMPLES
 - THE CONTRACTOR SHALL SUBMIT, FOR THE CONSULTANT'S REVIEW, SUCH STANDARD MANUFACTURER'S SAMPLES AS THE CONSULTANT MAY REASONABLY REQUIRE. SAMPLES SHALL BE LABELED AS TO ORIGIN AND INTENDED USE IN THE WORK.
 - THE CONTRACTOR SHALL PROVIDE SAMPLES OF SPECIAL MATERIAL, ASSEMBLIES, OR COMPONENTS WHEN SO SPECIFIED.
- OPERATING/MAINTENANCE MANUALS
 - PRIOR TO ISSUANCE OF CERTIFICATES OF SUBSTANTIAL COMPLETION, THE CONTRACTOR SHALL SUBMIT THREE COMPLETE SETS OF OPERATING MANUALS AND MAINTENANCE INSTRUCTIONS AS CALLED FOR IN THE CONTRACT DOCUMENTS, MADE UP AS FOLLOWS:
 - BIND DATA IN VINYL HARD COVER, VARIABLE CAPACITY, EXPANDING BINDER WITH FULL METAL HINGE AND SLIDE LOCK MECHANISM FOR 8 1/2" X 11" SIZE PAPER.
 - ENCLOSE TITLE SHEET, LABELED "OPERATING AND MAINTENANCE DATA MANUAL", PROJECT NAME, DATE AND LIST OF CONTENTS.
 - ORGANIZE CONTENTS INTO APPLICABLE SECTIONS OF WORK TO PARALLEL PROJECT SPECIFICATIONS SECTION BREAKDOWN. IDENTIFY EACH SECTION WITH TABS OF LAMINATED NYLAR PLASTIC. SEE MECHANICAL SPECS FOR COLOURED TAB REQUIREMENTS.
 - INCLUDE THE FOLLOWING INFORMATION PLUS DATA SPECIFIED:
 - MAINTENANCE INSTRUCTIONS FOR FINISHED SURFACES AND MATERIALS.
 - COPY OF HARDWARE AND PAINT SCHEDULES.
 - NAMES, ADDRESSES AND PHONE NUMBERS OF SUBCONTRACTORS AND SUPPLIERS.
 - GUARANTEES, WARRANTIES AND BOND SHOWING:
 - NAME AND ADDRESS OF THE PROJECT
 - WARRANTY/GUARANTEE/BOND COMMENCEMENT DATE AND DURATION
 - CLEAR INDICATION OF WHAT IS BEING GUARANTEED AND WHAT REMEDIAL ACTION WILL BE TAKEN UNDER GUARANTEE.
 - SIGNATURE AND SEAL OF CONTRACTOR.
 - ADDITIONAL MATERIAL/EQUIPMENT USED IN PROJECT LISTED UNDER VARIOUS SECTIONS SHOWING NAME OF MANUFACTURER AND SOURCE OF SUPPLY.
 - NEATLY TYPE LISTS AND NOTES. USE CLEAR DRAWINGS, DIAGRAMS OR MANUFACTURER'S LITERATURE.
 - INCLUDE ONE COMPLETE SET OF REVIEWED SHOP DRAWINGS (BOUND SEPARATELY) INDICATING CORRECTIONS AND CHANGES MADE DURING FABRICATION AND INSTALLATION.
- MAINTENANCE MATERIALS
 - WHERE SUPPLY OF MAINTENANCE MATERIALS ARE SPECIFIED, DELIVER TO CONSULTANT IN ACCORDANCE WITH FOLLOWING:
 - USE UNBROKEN CARTONS, OR IF NOT SUPPLIED IN CARTONS, THEY SHALL BE SECURELY PACKAGED.
 - CLEARLY MARK AS TO CONTENT.
 - IF APPLICABLE, IDENTIFY COLOUR, ROOM NUMBER OR AREA WHERE MATERIAL USED.
- PROJECT RECORD DRAWINGS
 - PRIOR TO ISSUANCE OF CERTIFICATE OF SUBSTANTIAL COMPLETION, THE CONTRACTOR SHALL SUPPLY TO THE CONSULTANT A SET OF PRINTS INDICATING ANY CHANGES FROM THE CONTRACT DRAWINGS.
 - THE CONSULTANT WILL SUPPLY A FRESH SET OF PRINTS FOR THIS PURPOSE.
- PROGRESS REPORTS
 - THE GENERAL CONTRACTOR SHALL KEEP A PERMANENT, WRITTEN RECORD ON THE SITE OF THE PROGRESS OF THE WORK. THIS RECORD SHALL BE OPEN TO THE SITE INSPECTIONS OF THE OWNER, AND COPIES SHALL BE FURNISHED TO THE OWNER UPON REQUEST. THIS RECORD SHALL SHOW DATES OF COMMENCEMENT AND COMPLETION OF ALL TRADES AND PARTS OF THE WORK. IT SHALL INCLUDE PARTICULARS REGARDING DAILY WEATHER CONDITIONS, VARIOUS PARTS OF THE WORK (SUCH AS EXCAVATION, ERECTION AND REMOVAL OF FORMS, PLACING OF CONCRETE), AS WELL AS THE NUMBER OF EMPLOYEES OF THE VARIOUS TRADES INVOLVED.

SECTION 01400 QUALITY CONTROL

- INSPECTION OF WORK
 - THE CONSULTANT SHALL HAVE ACCESS TO THE WORK FOR INSPECTION PURPOSES. THE CONTRACTOR SHALL PROVIDE REASONABLE FACILITIES FOR SUCH ACCESS.
 - IF SPECIAL TESTS, INSPECTIONS OR APPROVAL ARE REQUIRED BY THE CONTRACT DOCUMENTS, THE CONSULTANT'S INSTRUCTIONS, OR THE LAWS OR ORDINANCES OF THE PLACE OF BUILDING, THE CONTRACTOR SHALL GIVE THE CONSULTANT TIMELY NOTICE REQUESTING INSPECTION. THE CONTRACTOR SHALL ARRANGE INSPECTIONS BY OTHER AUTHORITIES HAVING JURISDICTION AND SHALL NOTIFY THE CONSULTANT OF THE DATE AND TIME.
 - IF THE CONTRACTOR COVERS OR PERMITS TO BE COVERED ANY WORK THAT IS SUBJECT TO INSPECTION OR BEFORE ANY SPECIAL TESTS AND APPROVALS ARE COMPLETED WITHOUT THE APPROVAL OF THE CONSULTANT, THE CONTRACTOR SHALL UNCOVER THE WORK, HAVE THE INSPECTIONS SATISFACTORILY COMPLETED AND MAKE GOOD THE WORK AT HIS OWN EXPENSE.
 - EXAMINATION OF ANY QUESTIONED WORK MAY BE ORDERED BY THE CONSULTANT. IF SUCH WORK IS FOUND NOT IN ACCORDANCE WITH THE CONTRACT, THE CONTRACTOR SHALL REMEDY SAME AND PAY ALL COSTS.
 - THE CONTRACTOR SHALL PROMPTLY FURNISH TO THE CONSULTANT, ALL CERTIFICATES AND/OR COPIES OF ALL INSPECTION REPORTS OF TESTS TO THE WORK.
- REJECTED WORK
 - DEFECTIVE WORK: WHETHER THE RESULT OF POOR WORKMANSHIP, USE OF DEFECTIVE MATERIALS OR DAMAGE THROUGH CARELESSNESS OR OTHER ACT OF THE CONTRACTOR, AND WHETHER INCORPORATED IN THE WORK OR NOT, WHICH HAS BEEN REJECTED BY THE CONSULTANT AS FAILING TO CONFORM TO THE CONTRACT DOCUMENTS SHALL BE REMOVED PROMPTLY FROM THE PREMISES BY THE CONTRACTOR AND REPLACE AND/OR RE-EXECUTED PROMPTLY IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AT THE CONTRACTOR'S EXPENSE.
 - IF IN THE OPINION OF THE CONSULTANT IT IS NOT EXPEDIENT TO CORRECT DEFECTIVE WORK OR WORK NOT DONE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE CONSULTANT MAY DEDUCT FROM THE CONTRACT PRICE THE DIFFERENCE IN VALUE BETWEEN THE WORK AS DONE AND THAT CALLED FOR BY THE CONTRACT, THE AMOUNT OF WHICH SHALL BE DETERMINED IN THE FIRST INSTANCE BY THE CONSULTANT.
- TESTS AND MIX DESIGNS
 - THE CONTRACTOR SHALL FURNISH TO THE CONSULTANT, TEST RESULTS AND MIX DESIGNS AS MAY BE REQUESTED.
 - THE COST OF TESTS AND MIX DESIGNS BEYOND THOSE CALLED FOR IN THE CONTRACT DOCUMENTS OR BEYOND THOSE REQUIRED BY LAWS, ORDINANCES, RULES AND REGULATIONS RELATING TO THE WORK AND THE PRESERVATION OF PUBLIC HEALTH, MAY BE AUTHORIZED BY THE OWNER AS AN ADDITION TO THE CONTRACT PRICE.
- STANDARDS
 - WITHIN THE TEXT OF THESE SPECIFICATIONS, REFERENCE MAY BE MADE TO THE FOLLOWING STANDARDS:
 - ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE
 - ASTM - AMERICAN SOCIETY FOR TESTING AND MATERIALS
 - CGSB - CANADIAN GENERAL STANDARDS BOARD
 - CSA - CANADIAN STANDARDS ASSOCIATION
 - CAN2 - NATIONAL STANDARD OF CANADA (PUBLISHED BY CGSB)
 - CAN3 - NATIONAL STANDARD OF CANADA (PUBLISHED BY CSA)
 - FM - FACTORY MUTUAL ENGINEERING CORPORATION
 - ULC - UNDERWRITERS LABORATORIES OF CANADA
 - THE TESTING OF MATERIALS MAY BE REQUESTED BY THE CONSULTANT, TO PROVE CONFORMANCE WITH STANDARDS, AND SHALL BE PAID FOR BY THE CONTRACTOR.
 - THE REFERENCED STANDARD AND ANY AMENDMENTS IN FORCE ON THE DAY OF RECEIPT OF TENDERS SHALL BE APPLICABLE TO THE WORK DURING THE DURATION OF THE CONTRACT.

SECTION 01600 PRODUCTS AND WORKMANSHIP

- GENERAL
 - USE NEW PRODUCTS UNLESS OTHERWISE SPECIFIED.
- MANUFACTURER'S INSTRUCTIONS
 - UNLESS OTHERWISE SPECIFIED, COMPLY WITH MANUFACTURER'S LATEST PRINTED INSTRUCTIONS FOR MATERIALS AND INSTALLATION METHOD TO BE USED.
 - NOTIFY CONSULTANT IN WRITING OF ANY CONFLICT BETWEEN THESE SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS, SO THAT CONSULTANT CAN DESIGNATE WHICH SPECIFICATIONS IS TO BE FOLLOWED.
- FASTENINGS
 - PROVIDE METAL FASTENINGS AND ACCESSORIES IN SAME TEXTURE, COLOUR AND FINISH AS BASE METAL IN WHICH THEY OCCUR. PREVENT ELECTROLYTIC ACTION BETWEEN DISSIMILAR METALS. USE NON-CORROSIVE FASTENERS, ANCHORS AND SPACERS FOR SECURING EXTERIOR WORK.
 - SPACE ANCHORS WITHIN LIMITS OF LOAD BEARING OR SHEAR CAPACITY AND ENSURE THAT THEY PROVIDE POSITIVE PERMANENT ANCHORAGE. WOOD PLUGS NOT ACCEPTABLE.
 - KEEP EXPOSED FASTENINGS TO MINIMUM, SPACE EVENLY AND LAY OUT NEATLY.
 - FASTENINGS WHICH CAUSE SPALLING OR CRACKING OF MATERIAL TO WHICH ANCHORAGE IS MADE ARE NOT ACCEPTABLE.
- SUPERINTENDENCE
 - THE CONTRACTOR SHALL EMPLOY A COMPETENT SUPERINTENDENT AND NECESSARY ASSISTANTS WHO SHALL BE IN ATTENDANCE AT THE WORK SITE AT ALL TIMES DURING THE PROGRESS OF THE WORK.
 - THE SUPERINTENDENT SHALL BE SATISFACTORY TO THE CONSULTANT AND SHALL NOT BE CHANGED EXCEPT FOR GOOD REASON AND ONLY AFTER CONSULTATION WITH AN AGREEMENT FROM THE CONSULTANT.
 - THE SUPERINTENDENT SHALL REPRESENT THE CONTRACTOR AT THE WORK SITE AND DIRECTIONS GIVEN TO HIM BY THE CONSULTANT SHALL BE HELD TO HAVE BEEN GIVEN TO THE CONTRACTOR. IMPORTANT DIRECTIONS SHALL BE CONFIRMED TO THE CONTRACTOR IN WRITING. OTHER DIRECTIONS WILL BE SO CONFIRMED IF REQUESTED.
- LABOUR AND MATERIALS
 - UNLESS OTHERWISE STIPULATED ELSEWHERE IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROVIDE AND PAY FOR ALL LABOUR, MATERIALS, EQUIPMENT, TOOLS, CONSTRUCTION EQUIPMENT AND MACHINERY, AND OTHER FACILITIES AND SERVICES NECESSARY FOR THE PROPER PERFORMANCE OF THE WORK.
 - ALL MATERIALS AND EQUIPMENT INCORPORATED IN THE WORK, SHALL BE NEW UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS. ANY MATERIALS OR ITEMS OF EQUIPMENT NOT SPECIFICALLY DETAILED IN THE SPECIFICATIONS SHALL BE OF A QUALITY BEST SUITED TO THE PURPOSE REQUIRED AND THEIR USE SUBJECT TO THE APPROVAL OF THE CONSULTANT.
 - AT ALL TIMES, MAINTAIN GOOD ORDER AND DISCIPLINE AMONG EMPLOYEES ENGAGED ON THE WORK. DO NOT EMPLOY ON THE WORK, ANY UNFIT PERSON OR ANY ONE NOT SKILLED IN THE TASK ASSIGNED TO HIM.
- CUTTING AND REMEDIAL WORK
 - DO ALL CUTTING AND REMEDIAL WORK THAT MAY BE REQUIRED TO MAKE SEVERAL PARTS OF THE WORK COME TOGETHER PROPERLY.
 - COORDINATE AND SCHEDULE THE WORK TO ENSURE THAT THIS REQUIREMENT IS KEPT TO A MINIMUM.
 - CUTTING AND REMEDIAL WORK SHALL BE PERFORMED BY SPECIALISTS FAMILIAR WITH THE MATERIALS AFFECTED AND SHALL BE PERFORMED IN A MANNER TO NEITHER DAMAGE NOR ENDANGER ANY WORK.
 - PRIOR TO CUTTING OR CURING ANY PRECAST CONCRETE OR STEEL STRUCTURAL MEMBER, REQUEST ON-SITE INSPECTION BY STRUCTURAL ENGINEER TO APPROVE METHODS AND LOCATIONS.
- DELIVERY AND STORAGE
 - DELIVER, STORE AND MAINTAIN PACKED MATERIALS WITH MANUFACTURER'S SEALS AND LABELS INTACT.
 - PREVENT DAMAGE, ADULTERATION AND SOILING OF MATERIALS DURING DELIVERY, HANDLING AND STORAGE. IMMEDIATELY REMOVE REJECTED MATERIALS FROM SITE.
 - STORE MATERIALS IN ACCORDANCE WITH SUPPLIERS INSTRUCTIONS.
- SUBSTITUTIONS
 - PROPOSALS FOR SUBSTITUTION PRIOR TO TENDERING AS PER INSTRUCTIONS TO BIDDERS.
 - PROPOSALS FOR SUBSTITUTION MAY BE SUBMITTED AFTER AWARD OF CONTRACT. SUCH REQUESTS MUST INCLUDE STATEMENTS OF RESPECTIVE COSTS OF ITEMS ORIGINALLY SPECIFIED AND PROPOSED SUBSTITUTIONS.
 - PROPOSALS WILL BE CONSIDERED BY CONSULTANT IF:
 - PRODUCTS SELECTED BY TENDERER FROM THOSE SPECIFIED, ARE NOT AVAILABLE, OR
 - DELIVERY DATE OF PRODUCTS SELECTED FROM THOSE SPECIFIED WOULD UNDULY DELAY COMPLETION OF CONTRACT, OR
 - ALTERNATIVE PRODUCTS TO THOSE SPECIFIED, WHICH ARE BROUGHT TO ATTENTION OF, AND CONSIDERED BY CONSULTANT AS EQUIVALENT TO THOSE SPECIFIED AND WILL RESULT IN CREDIT TO CONTRACT AMOUNT.
 - SHOULD PROPOSED SUBSTITUTION BE ACCEPTED EITHER IN PART OR IN WHOLE, ASSUME FULL RESPONSIBILITY AND COSTS WHEN SUBSTITUTION AFFECTS OTHER WORK ON PROJECT. PAY FOR DRAWING CHANGES REQUIRED AS A RESULT OF SUBSTITUTION.
 - ALL CREDIT ARISING FROM APPROVAL OF SUBSTITUTIONS WILL BE CREDITED TO CONTRACT IN SUCH AMOUNTS AS MAY BE DETERMINED BY CONSULTANT AND CONTRACT PRICE WILL BE ADJUSTED ACCORDINGLY. NO SUBSTITUTIONS WILL BE PERMITTED WITHOUT THE PRIOR WRITTEN APPROVAL OF CONSULTANT.
- MATERIALS
 - ALL PRODUCTS SHALL BE NEW UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS. ANY PRODUCTS WHICH ARE NOT SPECIFIED SHALL BE OF A QUALITY BEST SUITED TO THE PURPOSE REQUIRED AND THEIR USE SUBJECT TO THE APPROVAL OF THE CONSULTANT.
- RAINSCREEN TECHNOLOGY
 - CONTRACTORS, TRADE CONTRACTORS, SUB-CONTRACTORS AND INSTALLERS SHALL ENSURE ALL EXTERIOR FINISHES, VENEERS AND FACADES ARE CONSTRUCTED OR INSTALLED UTILIZING A MINIMUM 10mm (1/2") RAINSCREEN DRAINAGE LAYER IN ACCORDANCE WITH NRC CHRC CONSTRUCTION TECHNOLOGY UPDATE NO. 34. RAINSCREEN DRAINAGE SYSTEM SPECIFICATIONS AND INSTALLATION PROCEDURES SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW PRIOR TO INSTALLATION. THE CONSULTANT DOES NOT APPROVE, WARRANTEE OR GUARANTEE THE INSTALLATION OF ANY EXTERIOR FINISH OR BUILDING ENVELOPE COMPONENT THAT DOES NOT MAINTAIN RAINSCREEN TECHNOLOGY.

NOTES

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REVISION SCHEDULE		
ISSUED FOR:	REVISION	DATE
90% CLIENT REVIEW	C	2020.05.20
TENDER	0	2020.06.02

CLIENT:
CLEARHILLS COUNTY

PROJECT:
CLEARHILLS FIREHALL

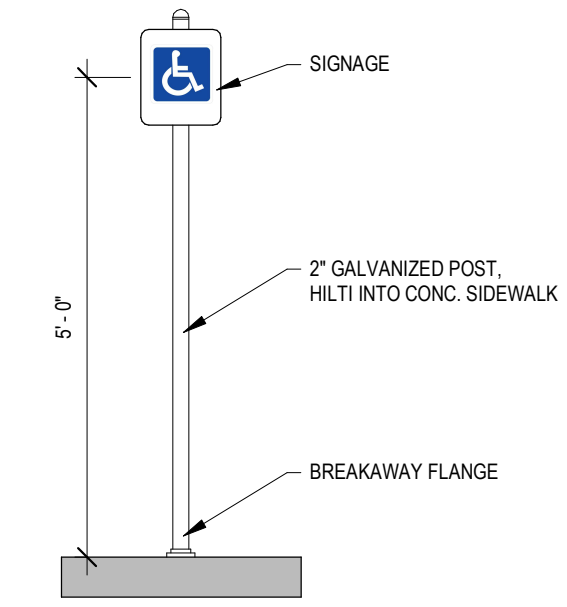
SITE DESCRIPTION: LOT 84 & 85, BLOCK 1, PLAN 07262595, CLEARDALE, CLEARHILLS COUNTY, AB

DRAWING:
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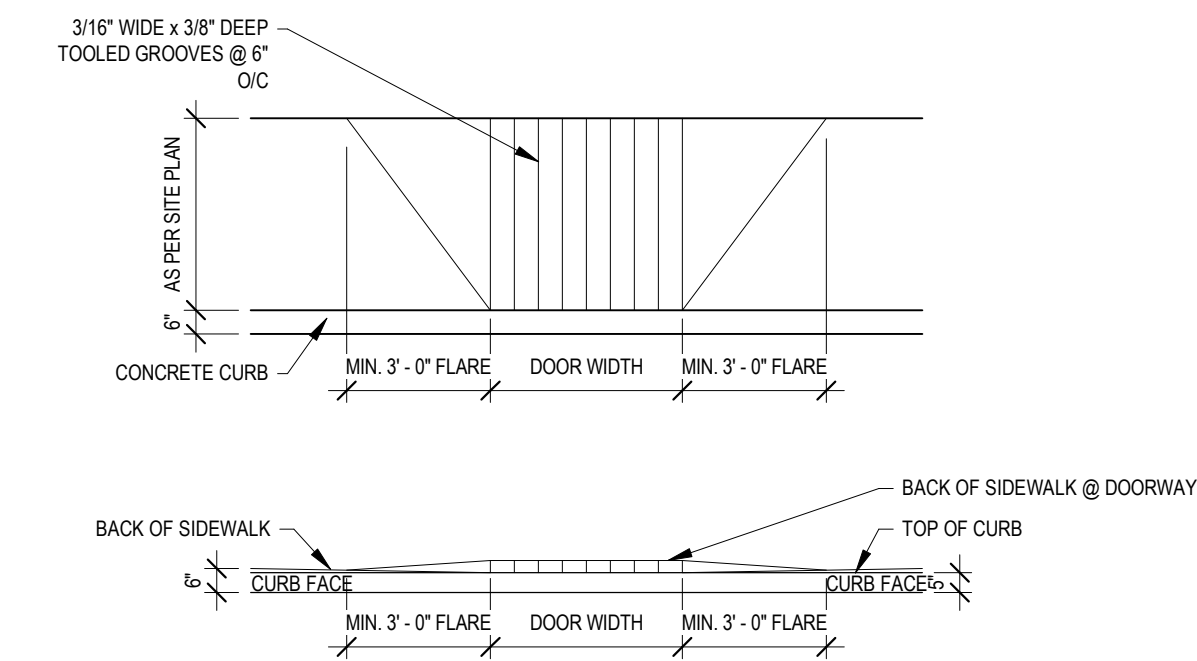
DRAWN BY:	MC	PROF. REVIEW:	BF
TECH. REVIEW:	RM	FINAL REVIEW:	BF
SPA PROJECT NUMBER:	20-048		

DRAWING NUMBER:	REVISION:
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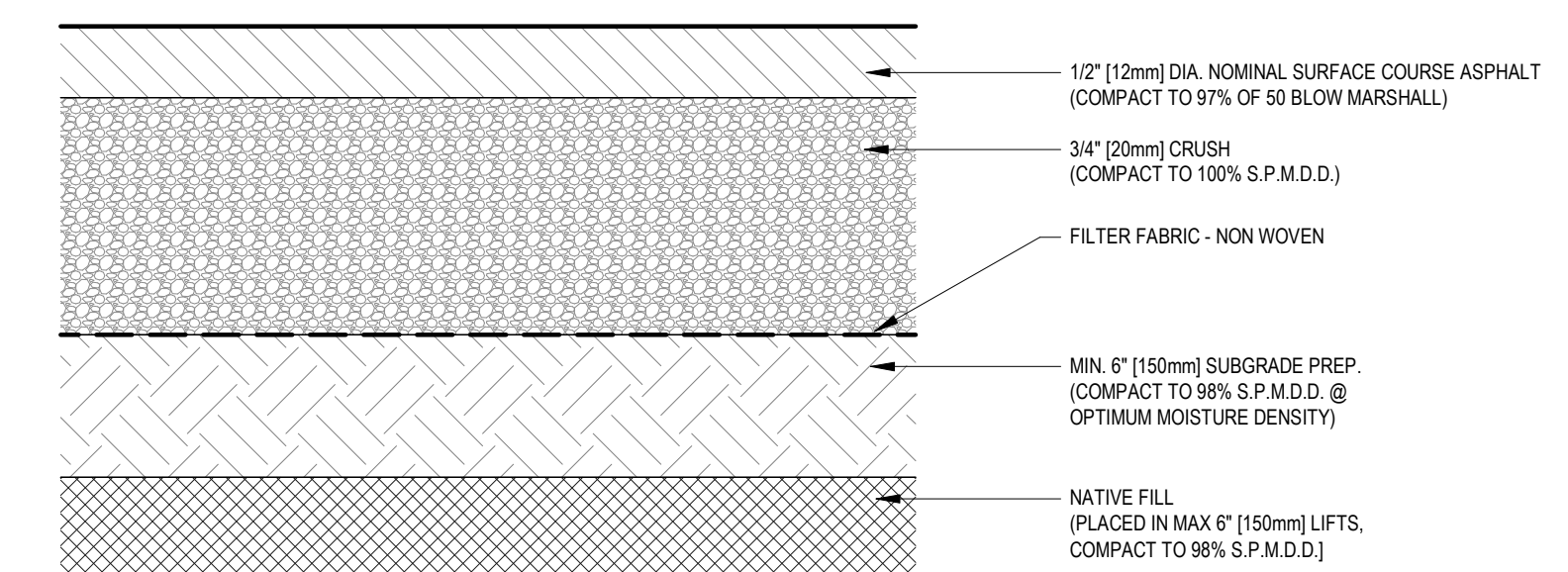
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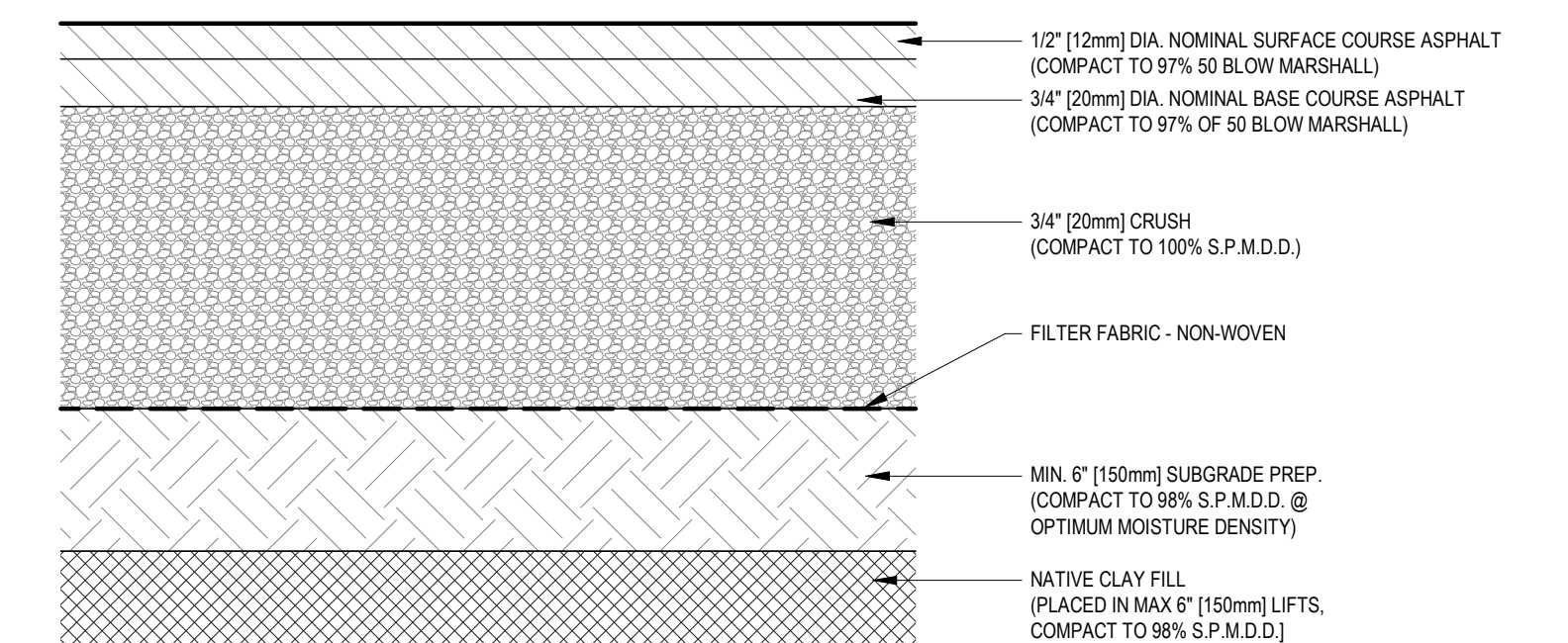
1 TYP. PERMIT SIGNAGE FOR BARRIER FREE
1/2" = 1'-0"



2 TYP. B/F SIDEWALK ENTRY RAMP
1/4" = 1'-0"



3 LIGHT DUTY ASPHALT STRUCTURE
NOT TO SCALE
NOTE:
• ASPHALT & GRAVEL DEPTHS AS PER GEOTECHNICAL INVESTIGATION U.N.O.



4 HEAVY DUTY ASPHALT STRUCTURE
1 1/2" = 1'-0"
NOTE:
• ASPHALT & GRAVEL DEPTHS AS PER GEOTECHNICAL INVESTIGATION U.N.O.

NOTES

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REVISION SCHEDULE

ISSUED FOR:	REVISION	DATE
90% CLIENT REVIEW	C	2020.05.20
TENDER	O	2020.06.02

CLIENT:
CLEARHILLS COUNTY

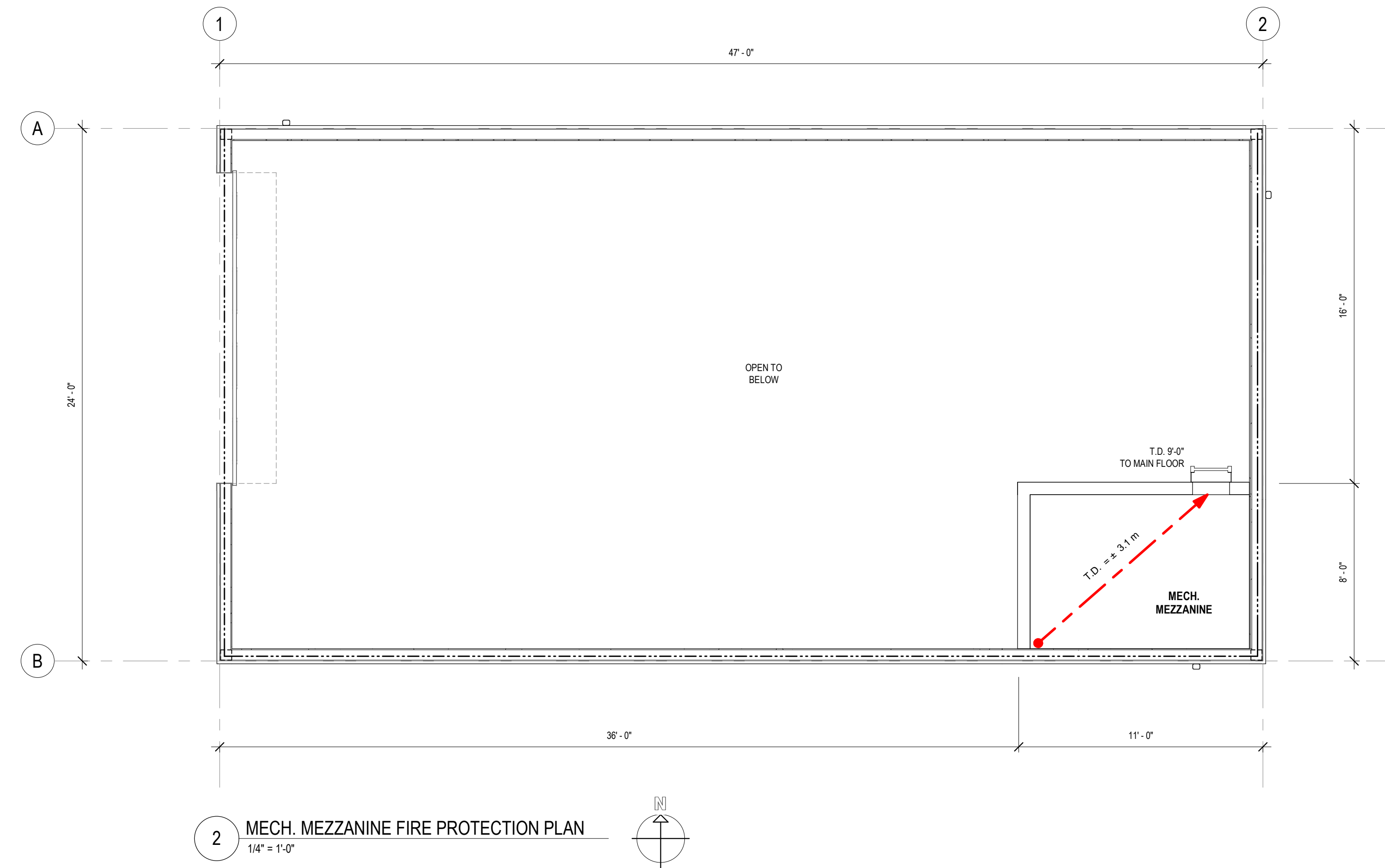
PROJECT:
CLEARHILLS FIREHALL

SITE DESCRIPTION: LOT 84 & 85, BLOCK 1, PLAN 07252595, CLEARDALE, CLEARHILLS COUNTY, AB

DRAWING:
SITE DETAILS

DRAWN BY:	MC	PROF. REVIEW:	BF
TECH. REVIEW:	RM	FINAL REVIEW:	BF
SPA PROJECT NUMBER:	20-048		

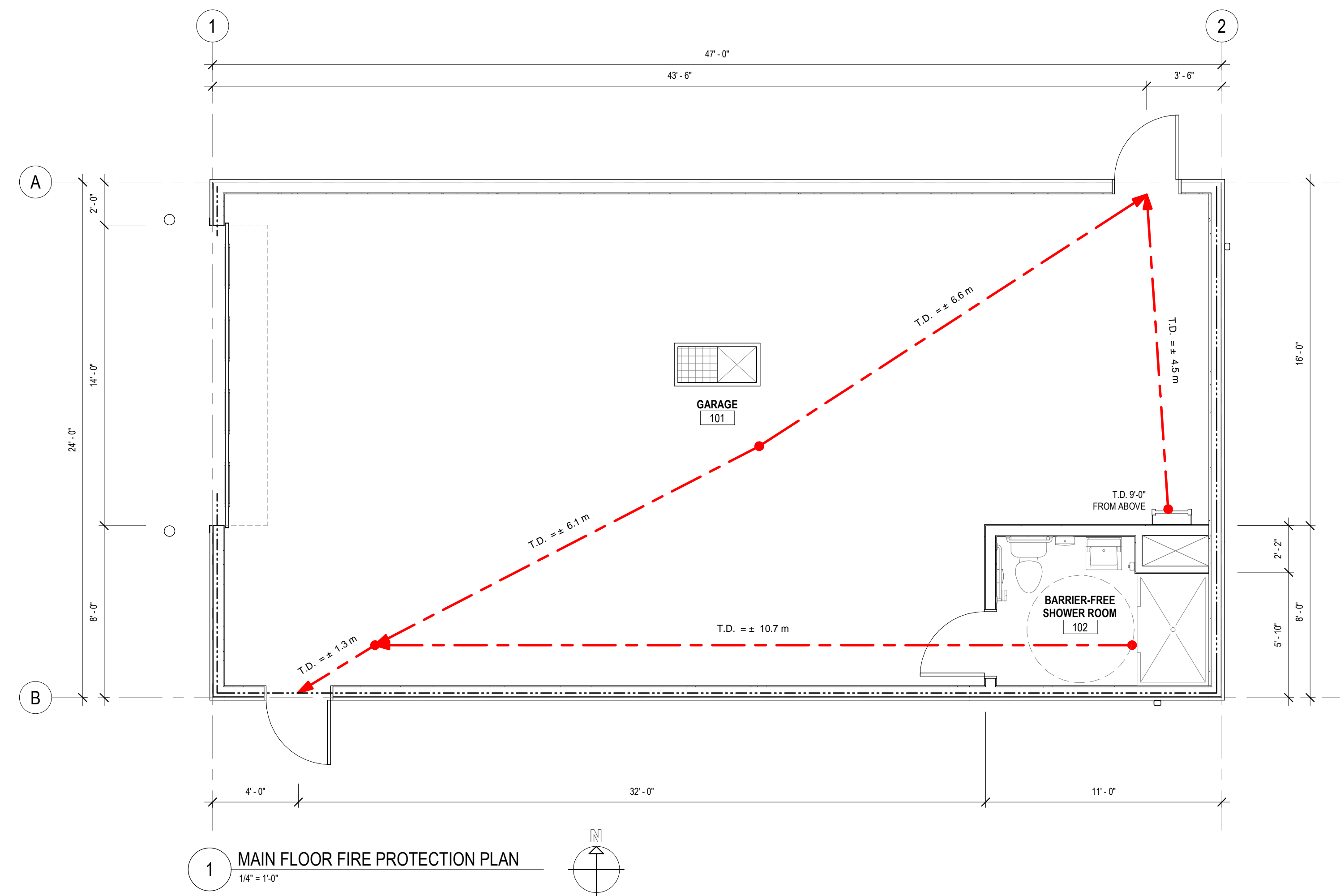
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2 MECH. MEZZANINE FIRE PROTECTION PLAN
1/4" = 1'-0"

FIRE PROTECTION PLAN NOTES

1. INDICATES TRAVEL DISTANCE
2. SHADED AREAS INDICATED A 45 MIN. FIRE RESISTANCE RATING IS REQUIRED.
3. SHADED AREAS INDICATED A 1 HOUR FIRE RESISTANCE RATING IS REQUIRED.
4. FIRE RATED ASSEMBLY OF 45 min. (ALSO SEE WALL SCHEDULE).
5. FIRE RATED ASSEMBLY OF 1 HOUR. (ALSO SEE WALL SCHEDULE).
6. FIRE RATED ASSEMBLY OF 2 HOUR. (ALSO SEE WALL SCHEDULE).
7. PROVIDE A U.L.C. APPROVED FIRESTOPPING MATERIAL AS NECESSARY TO MAINTAIN REQUIRED FIRE SEPARATIONS.
8. REFER TO STRUCTURAL DRAWINGS FOR ALL FOUNDATION AND STRUCTURAL INFORMATION.



1 MAIN FLOOR FIRE PROTECTION PLAN
1/4" = 1'-0"

BUILDING CODE ANALYSIS (ABC 2019)	
THE FOLLOWING ARE HIGHLIGHTED AREAS OF THE CURRENT PROVINCIAL BUILDING CODE THAT RELATE TO PUBLIC BUILDING LOCATED IN CLEARHILLS COUNTY, ALBERTA.	
<ul style="list-style-type: none"> NOT ALL RELEVANT CODE REFERENCES ARE LISTED THIS PROJECT IS TO BE DESIGNED TO THE CURRENT PROVINCIAL BUILDING CODE AND IT IS THE RESPONSIBILITY OF THE BUILDER TO MEET AND/OR EXCEED THE REQUIREMENTS OF THE CURRENT BUILDING CODE AND THE AUTHORITIES HAVING JURISDICTION. 	
BUILDING ADDRESS:	LOT 84 & 85, BLOCK 1, PLAN 07262595
MAJOR OCCUPANCY:	GROUP F DIVISION 2 - MEDIUM HAZARD INDUSTRIAL - FIREHALL
BUILDING CLASSIFICATION:	PART 9 - MEDIUM HAZARD INDUSTRIAL
NUMBER OF STREETS FACING:	FACING TWO (2) STREETS [3.2.2.10]
BUILDING AREA (m²):	1130m ² / 105m ²
BUILDING HEIGHT:	ONE (1) STOREY WITH MAX AREA FACING TWO (2) STREETS = 1250m ²
BUILDING CONSTRUCTION TYPE:	COMBUSTIBLE OR NON-COMBUSTIBLE CONSTRUCTION
FLOOR ASSEMBLY REQ.:	N/A [9.10.8.1]
MEZZANINE ASSEMBLY REQ.:	N/A [9.10.8.1]
ROOF ASSEMBLY REQ.:	N/A [9.10.8.1]
BEARING ASSEMBLY REQ.:	EXCEPT AS OTHERWISE PROVIDED IN THIS SUBSECTION, ALL LOADBEARING WALLS, COLUMNS AND ARCHES IN THE STOREY IMMEDIATELY BELOW A FLOOR OR ROOF ASSEMBLY SHALL HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN THAT REQUIRED FOR THE SUPPORTED FLOOR OR ROOF ASSEMBLY. [9.10.8.3]
TRAVEL DISTANCE:	AT LEAST 2 EXITS SHALL BE PROVIDED FROM EVERY FLOOR AREA, SPACED SO THAT THE TRAVEL DISTANCE TO THE NEAREST EXIT IS NOT MORE THAN 30m [9.8.2.1(10)]. THE MAXIMUM TRAVEL DISTANCE FROM ANY POINT ON A MEZZANINE TO THE NEAREST EXIT SHALL BE NOT MORE THAN IS 30m. [9.8.6.4]
RATED ROOMS:	WALLS TO BE BUILT TO THE UNDERSIDE OF STRUCTURE, UNDERSIDE OF STRUCTURE TO INCLUDE DECKING AND OTHER STRUCTURAL COMPONENTS COORDINATE WITH STRUCTURAL DRAWINGS, WHERE ALL ARCHITECTURAL WALLS INTERSECT UNDER JOISTS, BEAMS AND OTHER STRUCTURAL COMPONENTS, ENSURE WALL IS CONTINUOUS CONSTRUCTION TO UNDERSIDE OF DECKING COORDINATE ALL STRUCTURAL JOIST COMPONENTS TO AVOID LINING UP PARALLEL WITH TOP OF WALLS.
EXPOSED BUILDING FACE:	NORTH WALL SOUTH WALL EAST WALL WEST WALL
MAX AREA (m²):	(3.2.3.1) 74 m ² 74 m ² 36 m ² 36 m ²
LIMITING DISTANCE (m):	24m 8.5m 3.0m 5.2m
ALLOWABLE OPENINGS (%):	100% 50% 12% 39%
REQ. EXTERIOR WALL FIRE RESISTANCE RATING:	N/A 1 HR 2 HR 1 HR
FIRE WALL:	N/A
OCCUPANCY LOAD:	3 PERSONS
OCCUPANCY SEPARATION:	N/A
SUITE SEPARATION:	N/A
WATER CLOSETS REQUIRED:	1 REQUIRED
FIRE SUPPRESSION SYSTEM:	NOT SPRINKLERED
FIRE ALARM SYSTEM:	NO
FURNACE ROOM:	SHALL HAVE A FIRE SEPARATION W/ A FIRE RESISTANCE RATING NOT LESS THAN 1 HOUR [9.6.2.1.(1)]
SMOKE ALARM:	NO
EXIT SIGNS:	YES
EMERGENCY LIGHTING:	YES
FIRE DAMPERS:	YES
PIPING FIRE STOPS:	YES
STANDPIPE AND HOSE SYSTEM REQ.:	NO
BARRIER FREE DESIGN (3.8):	THE REQUIREMENTS OF THIS SECTION APPLY TO THIS PROJECT AND THE BUILDING MUST COMPLY WITH ALL REQUIREMENTS TO ASSIST THOSE PERSONS WITH PHYSICAL, SENSORY, AND DEVELOPMENTAL DISABILITIES.

NOTES

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ISSUED FOR:	REVISION	DATE
90% CLIENT REVIEW	C	2020.05.20
TENDER	0	2020.06.02

CLIENT: CLEARHILLS COUNTY

PROJECT: CLEARHILLS FIREHALL

SITE DESCRIPTION: LOT 84 & 85, BLOCK 1, PLAN 07262595, CLEARDALE, CLEARHILLS COUNTY, AB

DRAWING: FIRE PROTECTION PLAN

DRAWN BY:	MC	PROF. REVIEW:	BF
TECH. REVIEW:	RM	FINAL REVIEW:	BF
SPA PROJECT NUMBER:	20-048		

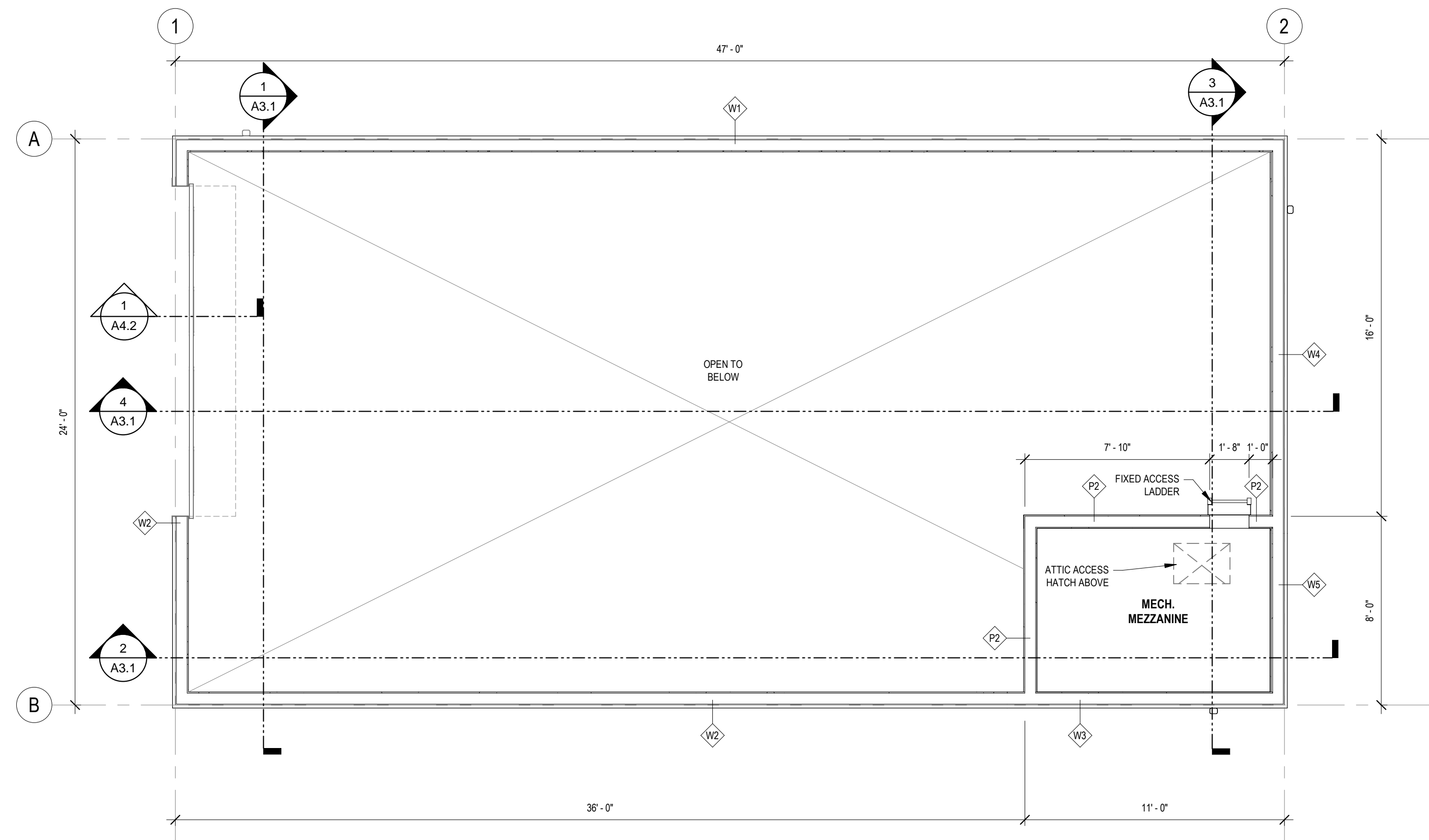
DRAWING NUMBER:	REVISION:
A1.1	0

GENERAL CONSTRUCTION NOTES:

1. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED ON SITE. ANY DISCREPANCY OR CONFLICT SHALL BE REPORTED TO THE CONSULTANT FOR CLARIFICATION PRIOR TO COMMENCING WORK.
2. ALL GYPSUM BOARD (DRYWALL) SHALL BE FIRE RATED TYPE 'X' UNLESS OTHERWISE SPECIFICALLY NOTED.
3. PROVIDE 2x4" WOOD BLOCKING (PRESSURE TREATED) RIGIDLY FASTENED AROUND OPENING OF EXTERIOR DOORS AND WINDOWS. TRIM, OR SHIM AS REQUIRED.
4. PROVIDE CONTINUOUS SEALANT AROUND ALL DOOR AND WINDOW FRAMES.
5. ALL G.I. FLASHINGS EXPOSED TO VIEW FROM GROUND LEVEL SHALL BE PREFINISHED.
6. PROVIDE ACOUSTICAL SEALANT AT JUNCTIONS OF FIRE OR SOUND RATED PARTITIONS.
7. PREP ALL FLOORS TO RECEIVE NEW SPECIFIED FINISHES. REFER TO ALL FINISHES PLANS.
8. MAINTAIN CONTINUITY OF THERMAL AND AIR / VAPOUR BARRIER BETWEEN EXTERIOR WALL AND ROOF CONSTRUCTION BY FOLLOWING THESE PROCEDURES:
9. FILL TOP AND BOTTOM FLUTES OF STEEL ROOF DECK OVER THE TOP OF EXTERIOR WALLS, BEAMS OR JOISTS WITH SPRAYED POLYURETHANE FOAM. FIREPROOF SURFACE OF FOAM FACING INSIDE THE BUILDING.
10. COAT OUTER SURFACE OF ALL STEEL MEMBERS CROSSING EXTERIOR WALL WITH 2" THICK SPRAYED POLYURETHANE FOAM EXTENDING 24" BEYOND EXTERIOR WALL FACE.
11. FILL VOID OF HOLLOW STEEL SECTION BEAMS AND COLUMNS WITH SPRAYED POLYURETHANE FOAM WHERE THEY CROSS EXTERIOR OF BUILDING TO PREVENT COLD AIR MIGRATION THROUGH THE HOLLOW TUBE.
12. PUMP SPRAY POLYURETHANE FOAM INTO THE VOID OF ALL EXTERIOR DOOR AND WINDOW FRAMES AND SPACE AGAINST THE
13. WALL OPENINGS TO COMPLETE THE SEALING OF AIR / VAPOUR BARRIER MEMBRANE AROUND THE FRAMES. CONTRACTORS, SUB-CONTRACTORS AND INSTALLERS SHALL ENSURE ALL EXTERIOR FINISHES, VENEERS AND FACADES ARE CONSTRUCTED OR INSTALLED UTILIZING A MINIMUM 10mm (1/2") RAINSCREEN DRAINAGE LAYER IN ACCORDANCE WITH NRC CNRC CONSTRUCTION TECHNOLOGY UPDATE NO. 34. RAINSCREEN DRAINAGE SYSTEM SPECIFICATIONS AND INSTALLATION PROCEDURES SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW PRIOR TO INSTALLATION. THE CONSULTANT DOES NOT APPROVE, WARRANTEE OR GUARANTEE THE INSTALLATION OF ANY EXTERIOR FINISH OR BUILDING ENVELOPE COMPONENT THAT DOES NOT MAINTAIN RAINSCREEN TECHNOLOGY.
14. OVERLAP PEEL & STICK AIR / VAPOUR MEMBRANE SHEETS MINIMUM 4". APPLY CONTINUOUS BEAD OF CAULKING AND OVERLAP ALL LOCATIONS.
15. ALL WOOD COMPONENTS DIRECTLY ATTACHED TO CEMENTITIOUS MATERIALS AND DIRECTLY UNDER EXTERIOR ALUMINUM SILLS SHALL BE PRESSURE TREATED.
16. CONSTRUCT ALL INTERIOR PARTITION WALLS TO US OF STRUCTURE (U.O.S.)
17. SOUND ABSORPTIVE MATERIAL SHOULD NOT OVERFILL THE CAVITY TO THE POINT OF PRODUCING SIGNIFICANT OUTWARD PRESSURE ON THE FINISHES, SUCH AN ASSEMBLY WILL NOT ACHIEVE THE S.T.C. RATING. WHERE THE ABSORPTIVE MATERIAL USED WITH STEEL STUD ASSEMBLIES IS IN BATT FORM "STEEL STUD BATTS" WHICH ARE WIDE ENOUGH TO FILL THE CAVITY FROM THE WEB OF ONE STUD TO THE WEB OF THE ADJACENT STUD MUST BE USED.
18. IN ALL LOCATIONS WHERE GYPSUM BOARD ABUTS DISSIMILAR MATERIAL USE A MILCOR AND / OR J-TRIM @ EDGE SURFACES.
19. PROVIDE CORNER BEAD FOR ALL EXPOSED GYPSUM SHEATHING CORNERS.
20. FURR-IN ALL EXPOSED MECHANICAL AND/OR ELECTRICAL COMPONENTS, IN FINISHED AREAS WITH 5/8" GYPSUM SHEATHING & STEEL STUD FRAMING.
21. CONTRACTOR TO PATCH AND REPAIR ALL WORK ASSOCIATED WITH MECHANICAL AND ELECTRICAL SERVICE TIE-INS INCLUDING ALL REQUIRED CORING.
22. REFER TO MECHANICAL AND ELECTRICAL FOR DIFFUSERS, GRILLES FIXTURES AND EQUIPMENT. COORDINATE SIZES AND EXACT LOCATIONS TO SUIT ARCHITECTURAL REFLECTED CEILING PLAN AND/OR DETAILS.
23. INSTALL FIRE STOPPING AROUND ALL MECH. & ELEC. PENETRATIONS THROUGH FIRE RATED WALLS AND CEILINGS.
24. THE CONSULTANT IS NOT RESPONSIBLE FOR THE ACCURACY OF THE SURVEY.
25. REFER ALSO TO SECTIONS AND ELEVATIONS FOR BRICK COURSING, STUCCO PATTERNS AND REVEALS.
26. THE CONSULTANT INDICATES FOR COORDINATION PURPOSES ONLY THE STRUCTURAL, MECHANICAL, ELECTRICAL, SITE GRADING, ETC. INFORMATION. REFER TO THE APPROPRIATE ENGINEERING DRAWINGS BEFORE PROCEEDING WITH THE WORK.
27. DO NOT SCALE DRAWINGS.
28. ALL ARCHITECTURAL SYMBOLS INDICATED ARE GRAPHIC REPRESENTATIONS ONLY.

FLOOR PLAN NOTES

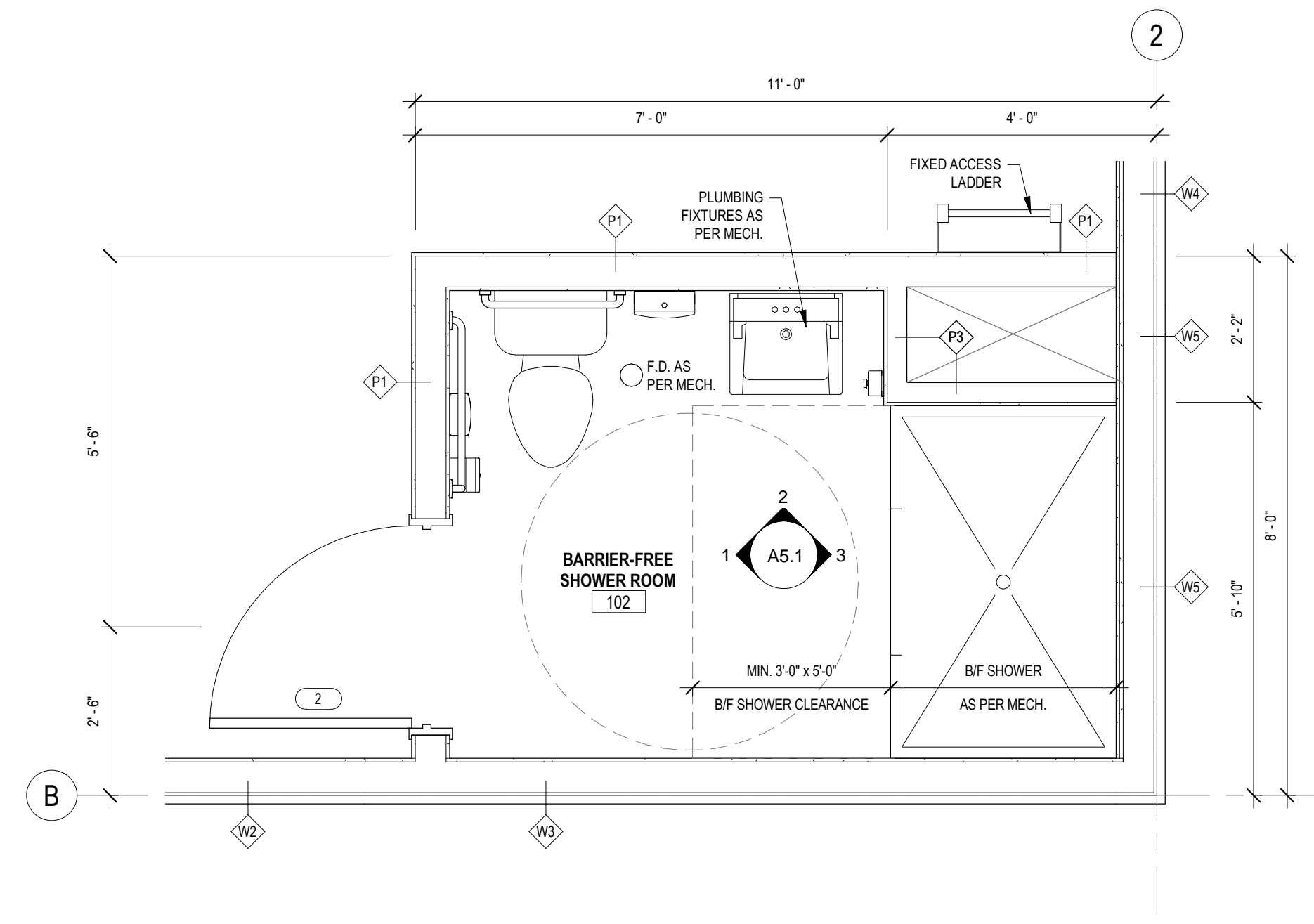
W1	1. SYMBOL INDICATES WALL TAG. REFER TO WALL SCHEDULE SHEET A6.1.
101	2. SYMBOL INDICATES DOOR TAG. REFER TO DOOR SCHEDULE SHEET A6.1.
X	3. SYMBOL INDICATES WINDOW TAG. REFER TO WINDOW SCHEDULE SHEET A6.1.
	4. REFER TO STRUCTURAL DRAWINGS FOR ALL FOUNDATION AND STRUCTURAL INFORMATION.



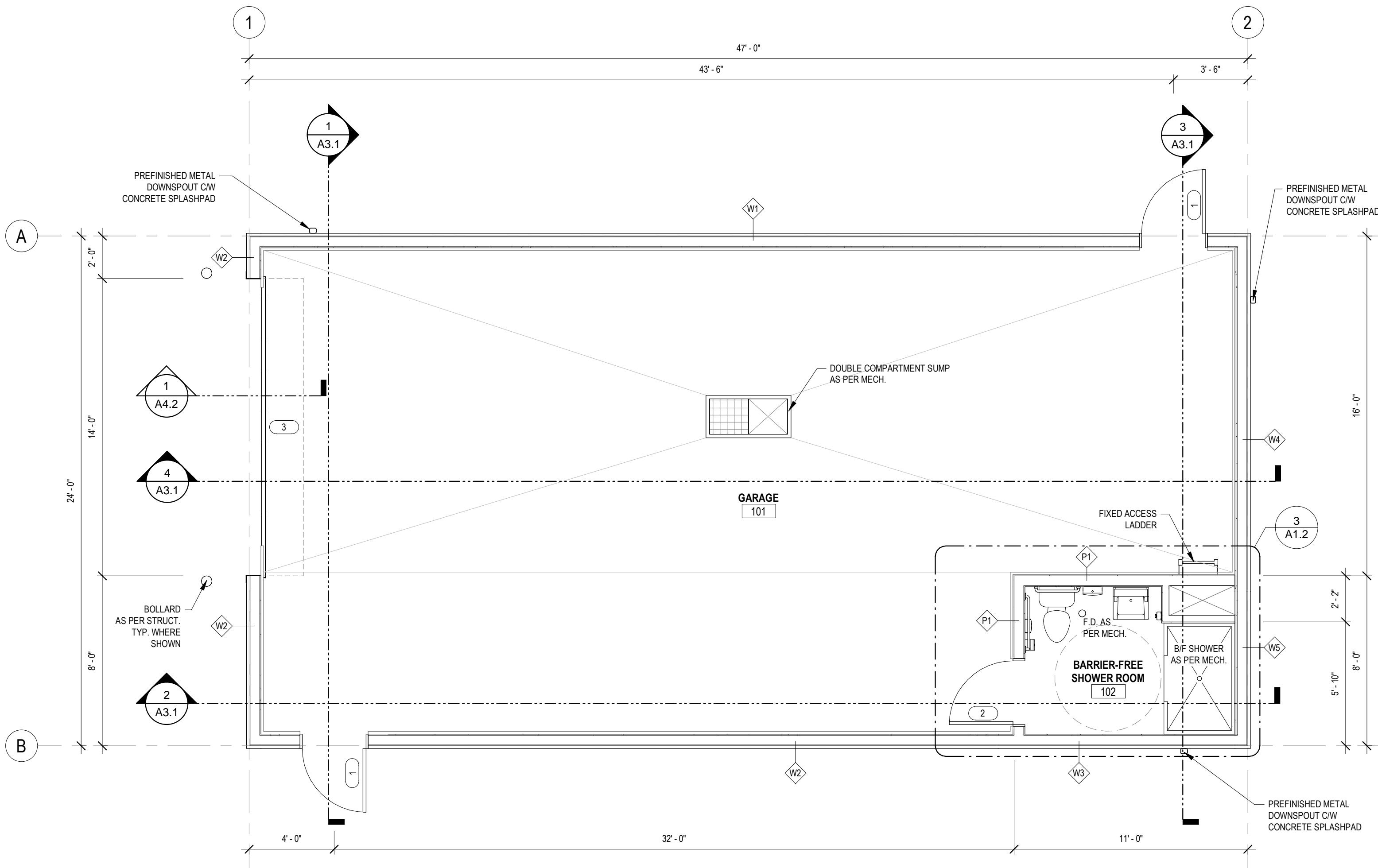
2 MECH. MEZZANINE FLOOR PLAN
1/4" = 1'-0"

WALL SCHEDULE *REFER TO ELEVATIONS FOR CHANGES IN CLADDING COLOR AND ORIENTATION

EXTERIOR WALLS	WALL DESCRIPTION	WALL DIAGRAM	INTERIOR WALLS	WALL DESCRIPTION	WALL DIAGRAM
W1	EXTERIOR CORRUGATED METAL CLADDING AIR BARRIER MEMBRANE 1/2" PLYWOOD SHEATHING 12x24 WOOD STUDS AS PER STRUCTURAL R-24 BATT INSULATION 6mil POLY VAPOUR BARRIER 5/8" GYPSUM SHEATHING 3'-0" HIGH METAL LINER PANEL		P1	5/8" GYPSUM SHEATHING 2x6 WOOD STUDS @ 16" O/C R-24 BATT INSULATION 5/8" GYPSUM SHEATHING 3'-0" HIGH METAL LINER PANEL	
W2	EXTERIOR CORRUGATED METAL CLADDING AIR BARRIER MEMBRANE 1/2" PLYWOOD SHEATHING 2x6 WOOD STUDS AS PER STRUCTURAL R-24 BATT INSULATION 6mil POLY VAPOUR BARRIER 5/8" TYPE 'X' GYPSUM SHEATHING 3'-0" HIGH METAL LINER PANEL		P2	• PONYWALL • 3'-6" ABOVE FINISHED FLOOR 5/8" GYPSUM SHEATHING	
W3	EXTERIOR CORRUGATED METAL CLADDING AIR BARRIER MEMBRANE 1/2" PLYWOOD SHEATHING 2x6 WOOD STUDS AS PER STRUCTURAL R-24 BATT INSULATION 6mil POLY VAPOUR BARRIER 5/8" TYPE 'X' GYPSUM SHEATHING 3'-0" HIGH METAL LINER PANEL		P3	5/8" GYPSUM SHEATHING 2x4 WOOD STUDS @ 16" O/C	
W4	EXTERIOR CORRUGATED METAL CLADDING AIR BARRIER MEMBRANE 1/2" PLYWOOD SHEATHING 2x6 WOOD STUDS AS PER STRUCTURAL R-24 BATT INSULATION 6mil POLY VAPOUR BARRIER 2-PLY 5/8" TYPE 'X' GYPSUM SHEATHING 3'-0" HIGH METAL LINER PANEL		NOTES • CONTRACTORS, TRADE CONTRACTORS, SUB-CONTRACTORS AND INSTALLERS SHALL ENSURE ALL EXTERIOR FINISHES, VENEERS AND FACADES ARE CONSTRUCTED OR INSTALLED UTILIZING A MINIMUM 1/2" (10mm) RAINSCREEN DRAINAGE LAYER IN ACCORDANCE WITH NRC CNRC CONSTRUCTION TECHNOLOGY UPDATE NO. 34. RAINSCREEN DRAINAGE SYSTEM SPECIFICATIONS AND INSTALLATION PROCEDURES SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW PRIOR TO INSTALLATION. THE CONSULTANT DOES NOT APPROVE, WARRANTEE OR GUARANTEE THE INSTALLATION OF ANY EXTERIOR FINISH OR BUILDING ENVELOPE COMPONENT THAT DOES NOT MAINTAIN RAINSCREEN TECHNOLOGY. • CONTROL JOINTS ARE TO BE PROVIDED AT A MAXIMUM 13'-0" (4m) O.C. HORIZONTAL AND VERTICAL FOR ALL EXTERIOR FINISHES, OR AS RECOMMENDED BY MANUFACTURER'S SPECIFICATIONS.		
W5	EXTERIOR CORRUGATED METAL CLADDING AIR BARRIER MEMBRANE 1/2" PLYWOOD SHEATHING 2x6 WOOD STUDS AS PER STRUCTURAL R-24 BATT INSULATION 6mil POLY VAPOUR BARRIER 2-PLY 5/8" TYPE 'X' GYPSUM SHEATHING				



3 ENLARGED FLOOR PLAN
1/2" = 1'-0"



1 MAIN FLOOR PLAN
1/4" = 1'-0"

NOTES

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REVISION SCHEDULE

ISSUED FOR:	REVISION	DATE
CONCEPTUAL	A	2020.04.15
CONCEPTUAL	B	2020.04.21
90% CLIENT REVIEW	C	2020.05.20
TENDER	D	2020.06.02

CLIENT: **CLEARHILLS COUNTY**

PROJECT: **CLEARHILLS FIREHALL**

SITE DESCRIPTION: LOT 84 & 85, BLOCK 1, PLAN 07252595, CLEARDALE, CLEARHILLS COUNTY, AB

DRAWING: **FLOOR PLANS**

DRAWN BY:	MC	PROF. REVIEW:	BF
TECH. REVIEW:	RM	FINAL REVIEW:	BF
SPA PROJECT NUMBER:	20-048		

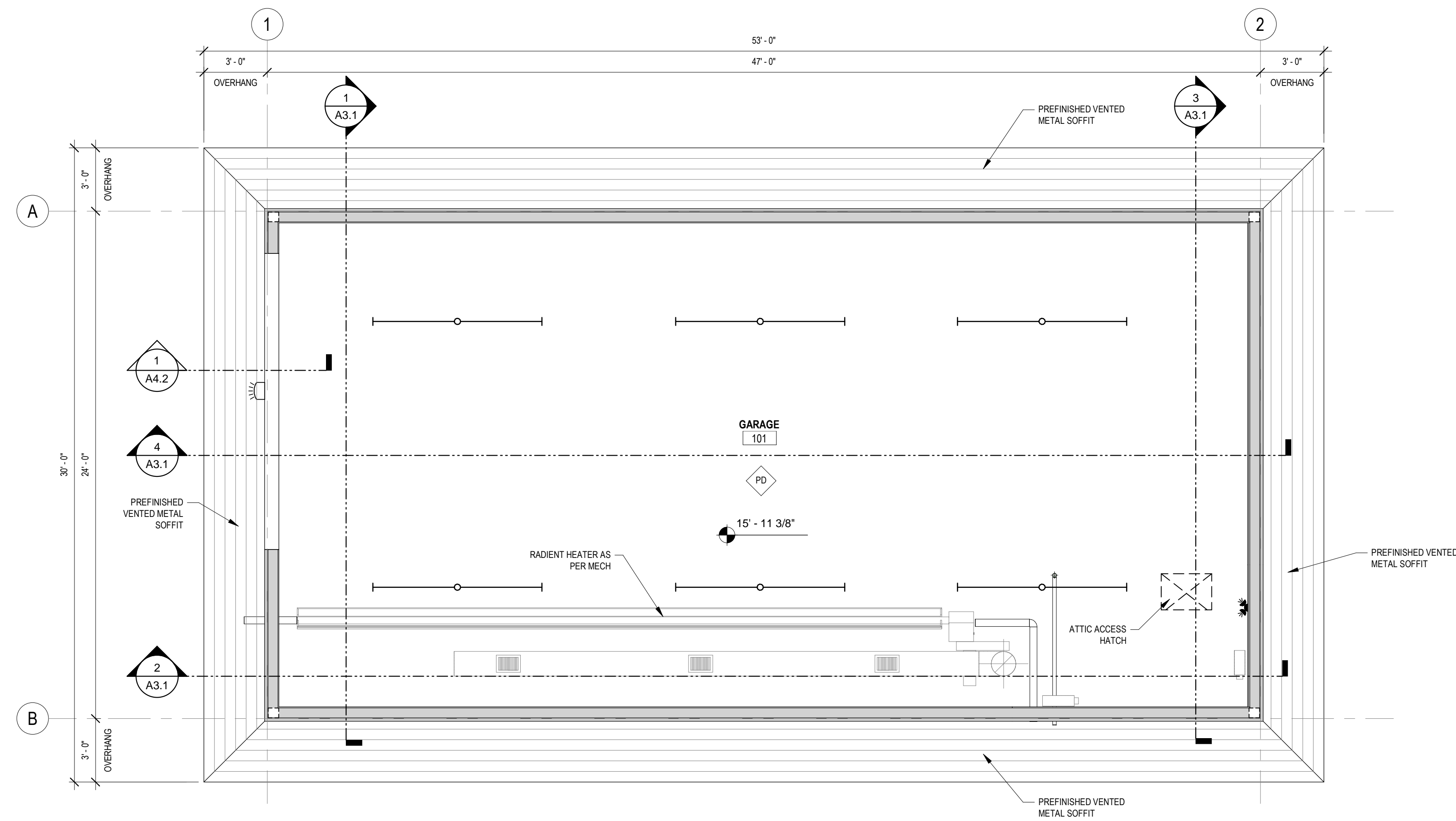
DRAWING NUMBER: **A1.2** REVISION: **0**

ISSUED FOR TENDER

GENERAL CONSTRUCTION NOTES:

GENERAL NOTES ARE TO BE READ IN CONJUNCTION WITH SPECIFICATIONS AND INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

1. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED ON SITE. ANY DISCREPANCY OR CONFLICT SHALL BE REPORTED TO THE CONSULTANT FOR CLARIFICATION PRIOR TO COMMENCING WORK.
2. ALL GYPSUM BOARD (DRYWALL) SHALL BE FIRE RATED TYPE 'X' UNLESS OTHERWISE SPECIFICALLY NOTED.
3. PROVIDE 2"x4" WOOD BLOCKING (PRESSURE TREATED) RIGIDLY FASTENED AROUND OPENING OF EXTERIOR DOORS AND WINDOWS. TRIM OR SHIM AS REQUIRED.
4. PROVIDE CONTINUOUS SEALANT AROUND ALL DOOR AND WINDOW FRAMES.
5. ALL G.I. FLASHINGS EXPOSED TO VIEW FROM GROUND LEVEL SHALL BE PREFINISHED.
6. PROVIDE ACOUSTICAL SEALANT AT JUNCTIONS OF FIRE OR SOUND RATED PARTITIONS.
7. PREP ALL FLOORS TO RECEIVE NEW SPECIFIED FINISHES. REFER TO ALL FINISHES PLANS.
8. MAINTAIN CONTINUITY OF THERMAL AND AIR / VAPOUR BARRIER BETWEEN EXTERIOR WALL AND ROOF CONSTRUCTION BY FOLLOWING THESE PROCEDURES:
9. FILL TOP AND BOTTOM FLUTES OF STEEL ROOF DECK OVER THE TOP OF EXTERIOR WALLS, BEAMS OR JOISTS WITH SPRAYED POLYURETHANE FOAM. FIREPROOF SURFACE OF FOAM FACING INSIDE THE BUILDING.
10. COAT OUTER SURFACE OF ALL STEEL MEMBERS CROSSING EXTERIOR WALL WITH 2" THICK SPRAYED POLYURETHANE FOAM EXTENDING 24" BEYOND EXTERIOR WALL FACE.
11. FILL VOID OF HOLLOW STEEL SECTION BEAMS AND COLUMNS WITH SPRAYED POLYURETHANE FOAM WHERE THEY CROSS EXTERIOR OF BUILDING TO PREVENT COLD AIR MIGRATION THROUGH THE HOLLOW TUBE.
12. FUMP SPRAY POLYURETHANE FOAM INTO THE VOID OF ALL EXTERIOR DOOR AND WINDOW FRAMES AND SPACE AGAINST THE
13. WALL OPENING TO COMPLETE THE SEALING OF AIR / VAPOUR BARRIER MEMBRANE AROUND THE FRAMES. CONTRACTORS, TRADE CONTRACTORS, SUB-CONTRACTORS AND INSTALLERS SHALL ENSURE ALL EXTERIOR FINISHES, VENEERS AND FACADES ARE CONSTRUCTED OR INSTALLED UTILIZING A MINIMUM 10mm (1/2") RAINSCREEN DRAINAGE LAYER IN ACCORDANCE WITH NRC CNRC CONSTRUCTION TECHNOLOGY UPDATE NO. 34 RAINSCREEN DRAINAGE SYSTEM SPECIFICATIONS AND INSTALLATION PROCEDURES SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW PRIOR TO INSTALLATION. THE CONSULTANT DOES NOT APPROVE, WARRANT OR GUARANTEE THE INSTALLATION OF ANY EXTERIOR FINISH OR BUILDING ENVELOPE COMPONENT THAT DOES NOT MAINTAIN RAINSCREEN TECHNOLOGY.
14. OVERLAP PEEL & STICK AIR / VAPOUR MEMBRANE SHEETS MINIMUM 4". APPLY CONTINUOUS BEAD OF CAULKING AND OVERLAP ALL LOCATIONS.
15. ALL WOOD COMPONENTS DIRECTLY ATTACHED TO CEMENTITIOUS MATERIALS AND DIRECTLY UNDER EXTERIOR ALUMINUM SILLS SHALL BE PRESSURE TREATED.
16. CONSTRUCT ALL INTERIOR PARTITION WALLS TO US OF STRUCTURE (U.N.O.)
17. SOUND ABSORPTIVE MATERIAL SHOULD NOT OVERFILL THE CAVITY TO THE POINT OF PRODUCING SIGNIFICANT OUTWARD PRESSURE ON THE FINISHES. SUCH AN ASSEMBLY WILL NOT ACHIEVE THE S.T.C. RATING. WHERE THE ABSORPTIVE MATERIAL USED WITH STEEL STUD ASSEMBLIES IS IN BATT FORM STEEL STUD BATTS WHICH ARE WIDE ENOUGH TO FILL THE CAVITY FROM THE WEB OF ONE STUD TO THE WEB OF THE ADJACENT STUD MUST BE USED.
18. IN ALL LOCATIONS WHERE GYPSUM BOARD ABUTS DISSIMILAR MATERIAL USE A MILCOR AND / OR J-TRIM @ EDGE SURFACES.
19. PROVIDE CORNER BEAD FOR ALL EXPOSED GYPSUM SHEATHING CORNERS.
20. FURB IN ALL EXPOSED MECHANICAL AND/OR ELECTRICAL COMPONENTS. IN FINISHED AREAS WITH 5/8" GYPSUM SHEATHING & STEEL STUD FRAMING.
21. CONTRACTOR TO PATCH AND REPAIR ALL WORK ASSOCIATED WITH MECHANICAL AND ELECTRICAL SERVICE TIE-INS INCLUDING ALL REQUIRED CORING.
22. REFER TO MECHANICAL AND ELECTRICAL FOR DIFFUSERS, GRILLES FIXTURES AND EQUIPMENT. COORDINATE SIZES AND EXACT LOCATIONS TO SUIT ARCHITECTURAL REFLECTED CEILING PLAN AND/OR DETAILS.
23. INSTALL FIRE STOPPING AROUND ALL MECH. & ELEC. PENETRATIONS THROUGH FIRE RATED WALLS AND CEILINGS.
24. THE CONSULTANT IS NOT RESPONSIBLE FOR THE ACCURACY OF THE SURVEY.
25. REFER ALSO TO SECTIONS AND ELEVATIONS FOR BRICK COURSING, STUCCO PATTERNS AND REVEALS.
26. THE CONSULTANT INDICATES FOR COORDINATION PURPOSES ONLY THE STRUCTURAL, MECHANICAL, ELECTRICAL, SITE GRADING, ETC. INFORMATION. REFER TO THE APPROPRIATE ENGINEERING DRAWINGS BEFORE PROCEEDING WITH THE WORK.
27. DO NOT SCALE DRAWINGS.
28. ALL ARCHITECTURAL SYMBOLS INDICATED ARE GRAPHIC REPRESENTATIONS ONLY.

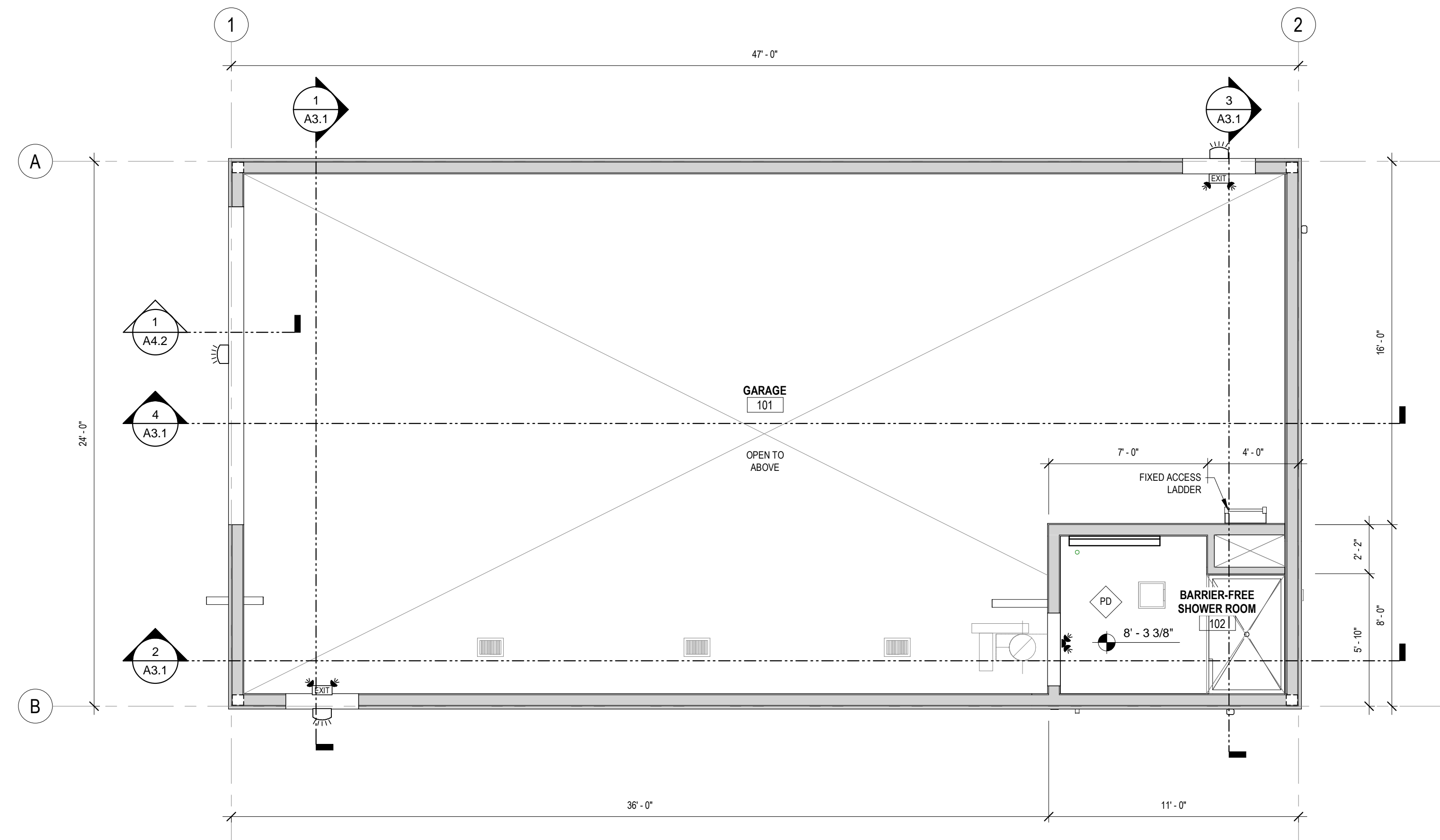


2 MAIN FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"

REFLECTED CEILING PLAN LEGEND	
	INDICATES 2'-0" x 2'-0" SUSPENDED ACOUSTIC UNIT CEILING
	PAINTED DRYWALL
	2 LAYERS OF PAINTED DRYWALL
	EXPOSED STRUCTURE
	CEILING ELEVATION (A.F.F.)
	LIGHT FIXTURE - RECESSED LED
	LIGHT FIXTURE - WALL MOUNT
	LIGHT FIXTURE - PENDANT
	LIGHT FIXTURE - STRIP LIGHT
	LIGHT FIXTURE - RECESSED DOWNLIGHT
	LIGHT FIXTURE - BATTERY PACK
	LIGHT FIXTURE - EMERGENCY REMOTE LAMPS
	LIGHT FIXTURE - EXIT LIGHT
	LIGHT FIXTURE - EXTERIOR WALLPACK
	2'-0" x 4'-0" RECESSED FLUORESCENT LIGHT FIXTURE

REFLECTED CEILING PLAN NOTES

1. CHECK AND VERIFY ALL DIMENSIONS ON SITE. REPORT ANY DISCREPANCIES OR CONFLICTS TO THE CONSULTANT.
2. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DIFFUSERS, GRILLES, FIXTURES AND EQUIPMENT. COORDINATE SIZES AND EXACT LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
3. CEILING ELEVATIONS GIVEN ARE HEIGHTS FROM FINISHED FLOOR AT EACH AREA.
4. ALL GYPSUM BOARD (GYPSUM SHEATHING) TO BE TYPE 'X' UNLESS OTHERWISE NOTED.
5. SHADED AREAS INDICATE FIRE RATED ROOMS. WALLS TO BE BUILT TO UNDERSIDE OF DECK. SEE BUILDING CODE ANALYSIS ON DRAWING A0.1.



1 MAIN FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"

NOTES

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PROF. SEAL:

REVISION SCHEDULE		
ISSUED FOR:	REVISION	DATE
90% CLIENT REVIEW	C	2020.05.20
TENDER	O	2020.06.02

CLIENT:
CLEARHILLS COUNTY

PROJECT:
CLEARHILLS FIREHALL

SITE DESCRIPTION: LOT 84 & 85, BLOCK 1, PLAN 07252595, CLEARDALE, CLEARHILLS COUNTY, AB

DRAWING:
REFLECTED CEILING PLAN

DRAWN BY:	MC	PROF. REVIEW:	BF
TECH. REVIEW:	RM	FINAL REVIEW:	BF
SPA PROJECT NUMBER:	20-048		

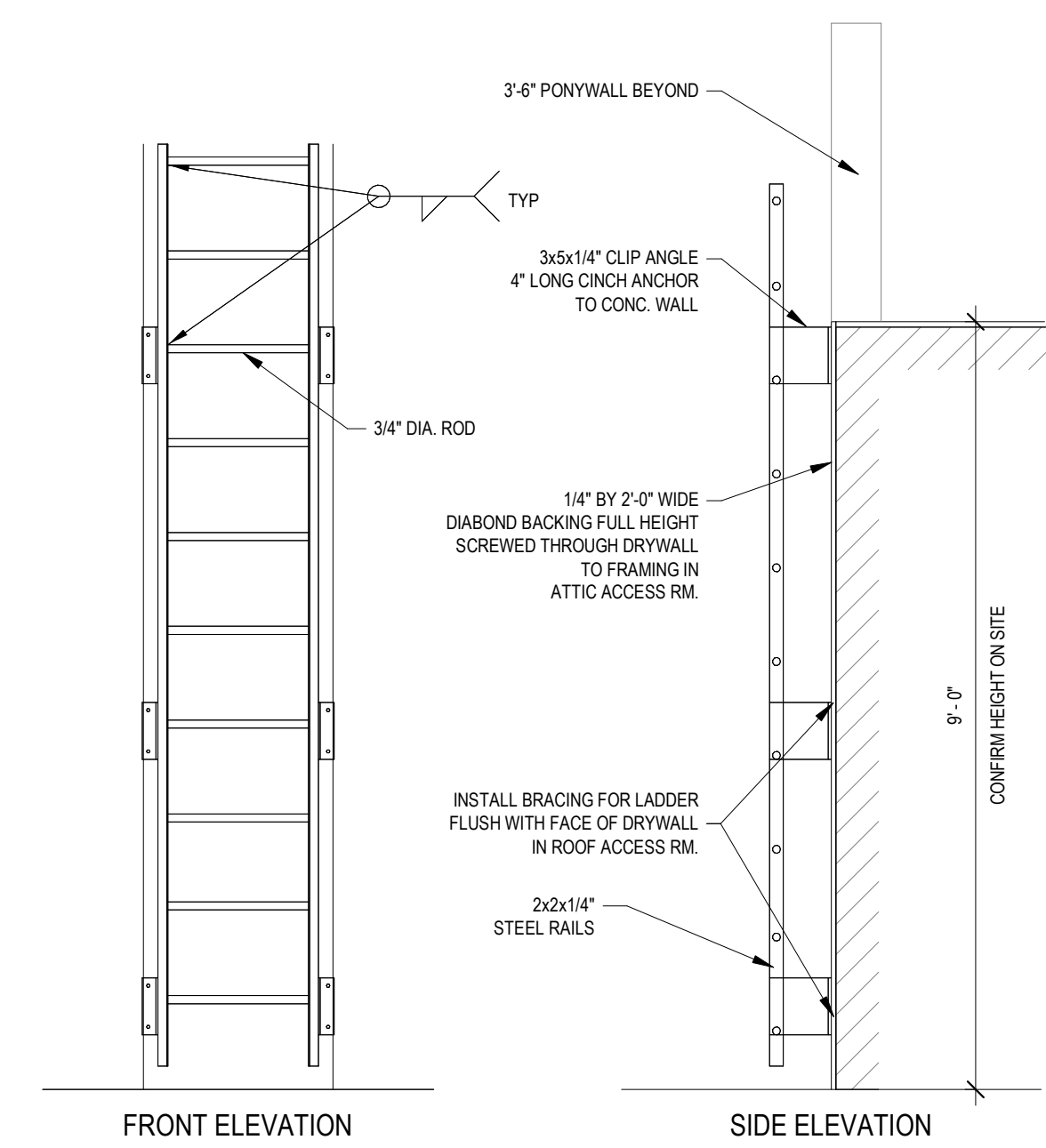
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GENERAL CONSTRUCTION NOTES:

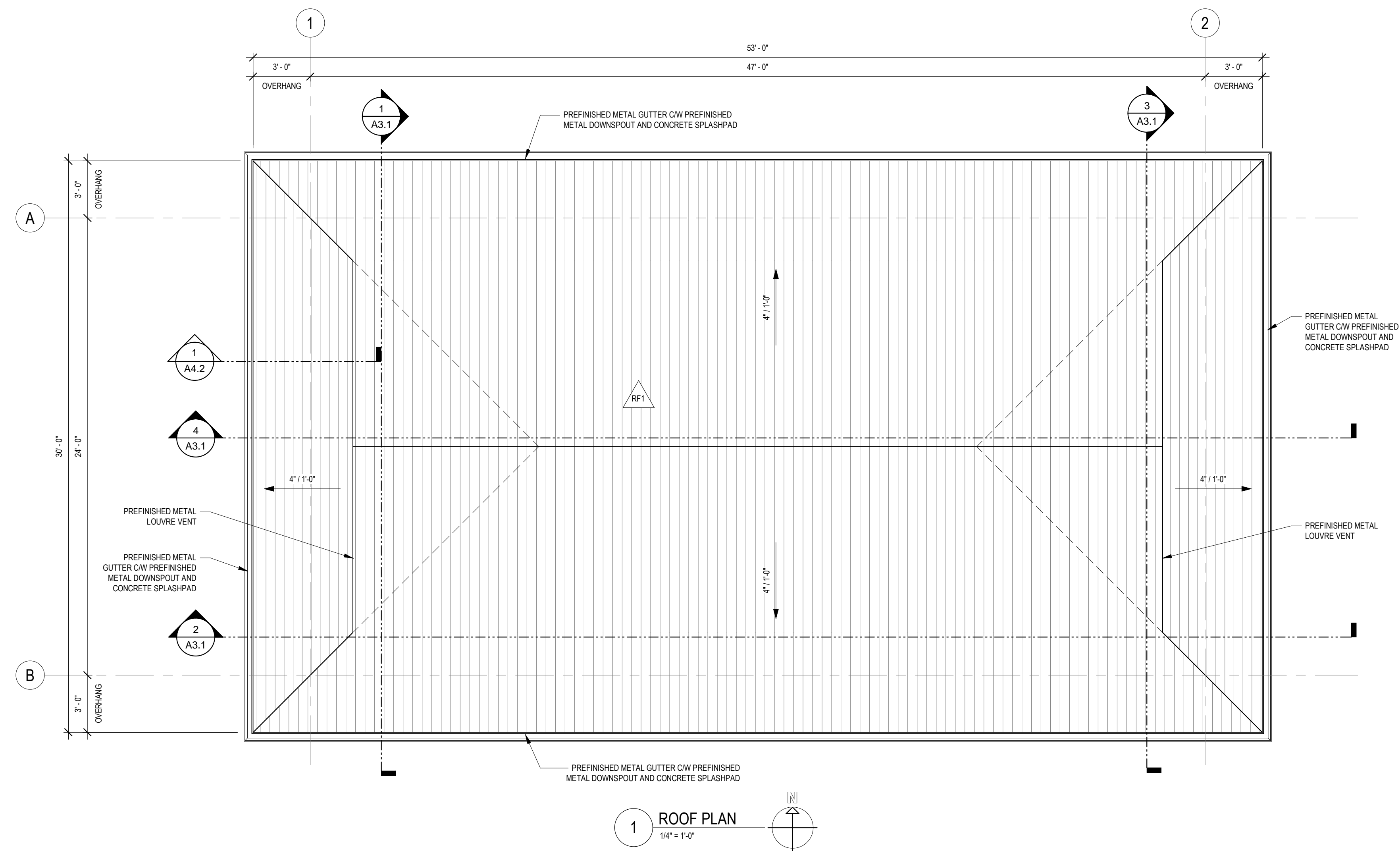
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- PROVIDE CORNER BEAD FOR ALL EXPOSED GYPSUM SHEATHING CORNERS.
- FURRIN ALL EXPOSED MECHANICAL AND/OR ELECTRICAL COMPONENTS. IN FINISHED AREAS WITH 5/8" GYPSUM SHEATHING & STEEL STUD FRAMING.
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GENERAL NOTES	ROOF TYPE
<ol style="list-style-type: none"> CONFIRM ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCY TO THE CONSULTANT. ROOF TOP SERVICES AND ROOF PENETRATIONS ARE SHOWN FOR INFORMATION ONLY. COORDINATE NUMBER AND LOCATION OF OPENINGS & EXTENT OF SERVICES WITH MECHANICAL AND ELECTRICAL DRAWINGS. ALL G.I. FLASHINGS EXPOSED TO VIEW FROM GROUND LEVEL SHALL BE PREFINISHED. CUT AND REMOVE WALLS, ROOF, ROOFING, ETC. AS REQUIRED TO FACILITATE/ACCOMMODATE THE WORK OF THIS CONTRACT. REINFORCE ALL OPENINGS AS DIRECTED BY STRUCTURAL ENGINEER. EXTEND R/W. MIN 12" FROM BUILDING FACE. C/W CONCRETE SPLASHPAD. 	<p>NOTE: ALL ROOF TYPES TO BE READ IN CONJUNCTION WITH SECTIONS AND DETAILS.</p> <p>RF1</p> <p>ROOF CONSTRUCTION:</p> <ul style="list-style-type: none"> METAL STANDING SEAM ROOFING AIR BARRIER MEMBRANE 3/4" PLYWOOD SHEATHING PRE-ENGINEERED WOOD TRUSSES AS PER STRUCTURAL MIN R-40 BATT INSULATION 6mil POLY VAPOUR BARRIER 5/8" GYPSUM BOARD



2 ACCESS LADDER DETAIL
1/2" = 1'-0"



1 ROOF PLAN
1/4" = 1'-0"

NOTES

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PROF. SEAL:

REVISION SCHEDULE		
ISSUED FOR:	REVISION	DATE
90% CLIENT REVIEW	C	2020.05.20
TENDER	0	2020.06.02

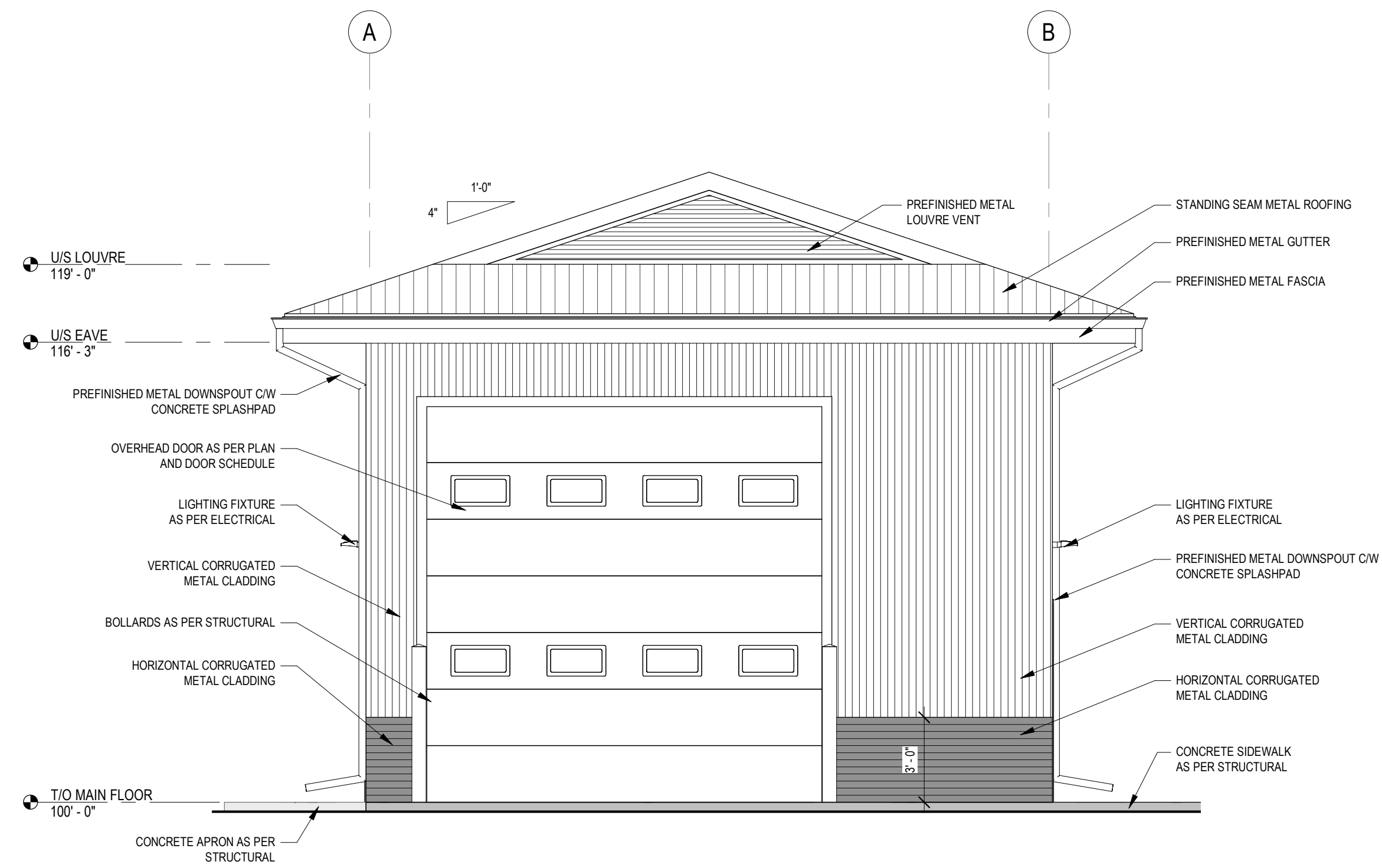
CLIENT:
CLEARHILLS COUNTY

PROJECT:
CLEARHILLS FIREHALL

SITE DESCRIPTION: LOT 84 & 85, BLOCK 1, PLAN 07252595, CLEARDALE, CLEARHILLS COUNTY, AB

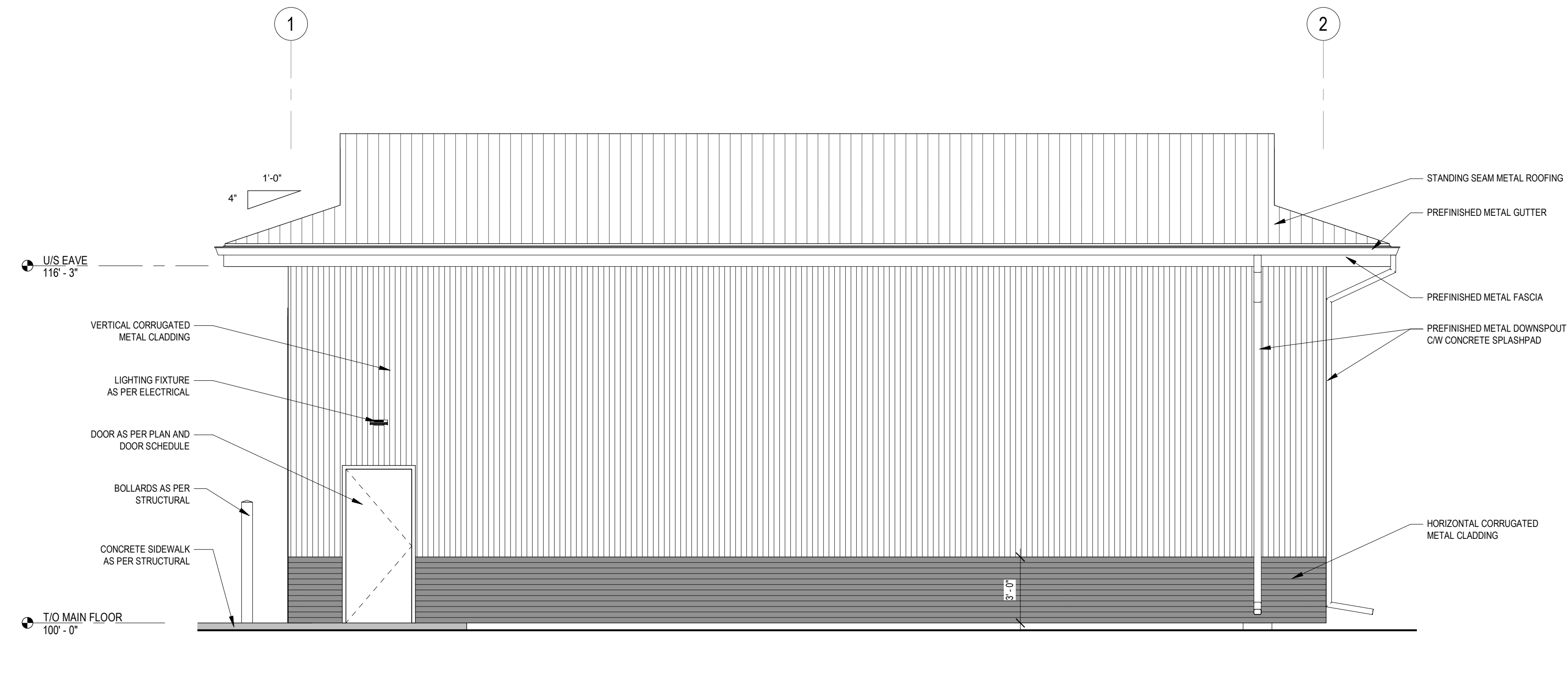
DRAWING:
ROOF PLAN

DRAWN BY:	MC	PROF. REVIEW:	BF
TECH. REVIEW:	RM	FINAL REVIEW:	BF
SPA PROJECT NUMBER:	20-048		
DRAWING NUMBER:	A1.4		REVISION:
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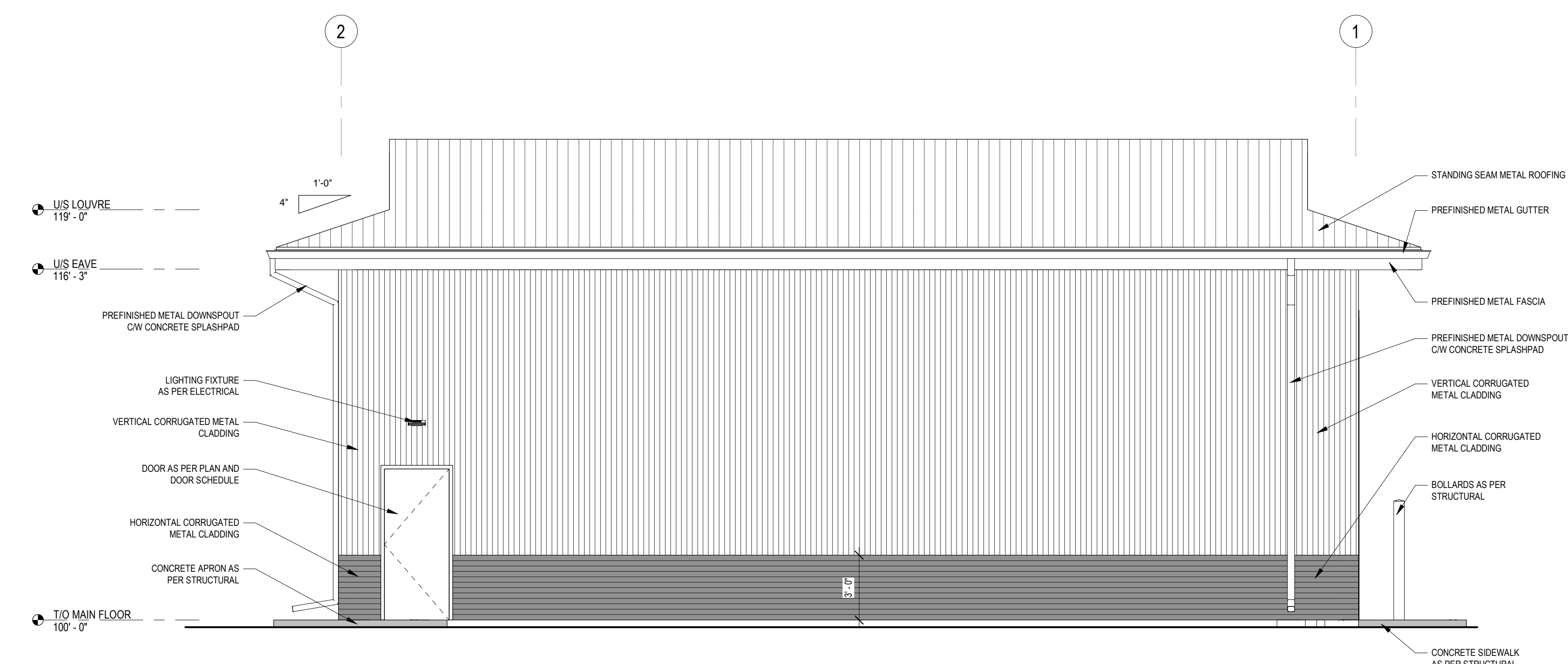
1 WEST ELEVATION
1/4" = 1'-0"

NOTE: COLOUR OF EXTERIOR FINISHES TO BE CONFIRMED BY OWNER PRIOR TO ORDERING OR FABRICATION.



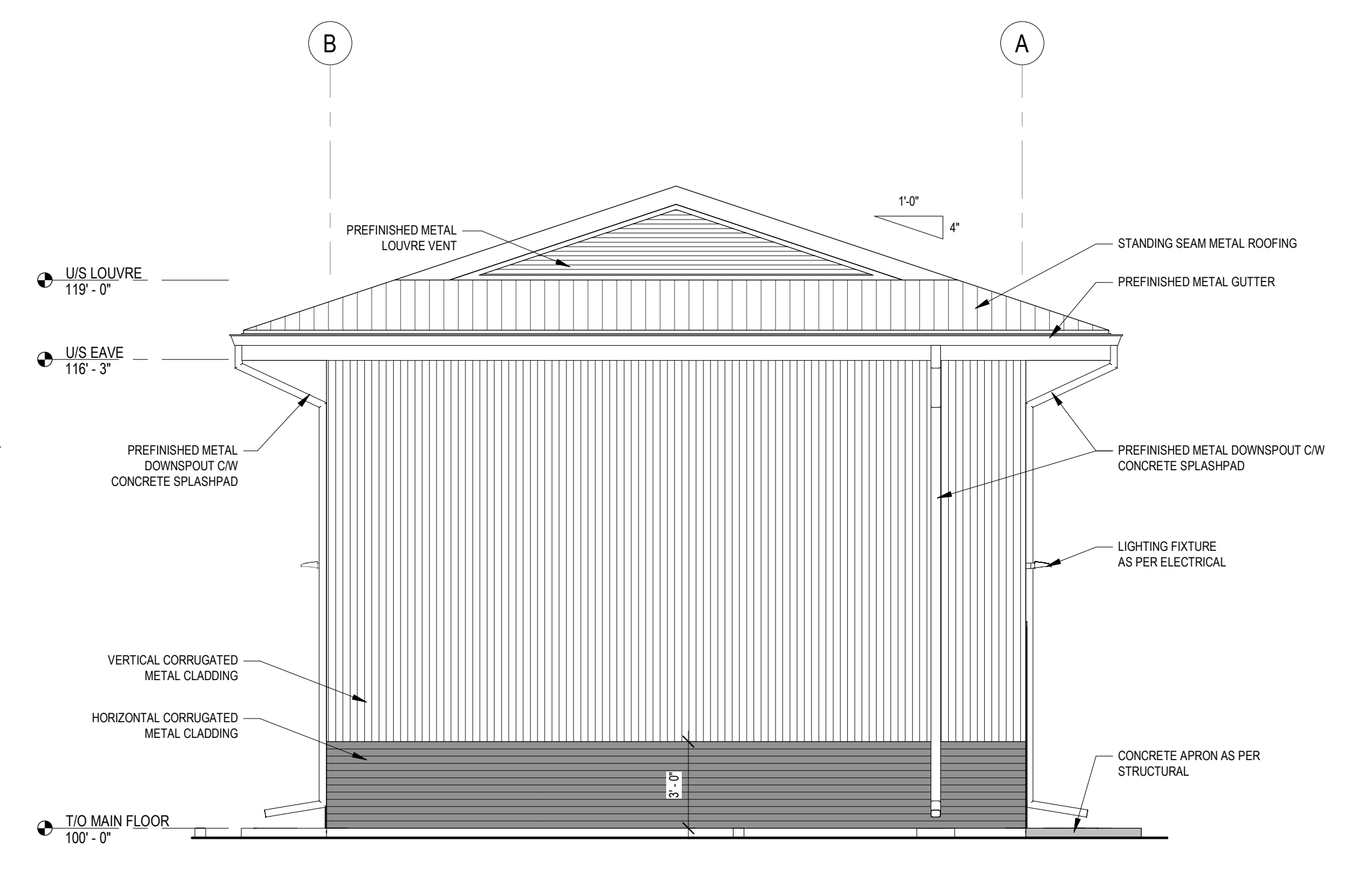
2 SOUTH ELEVATION
1/4" = 1'-0"

NOTE: COLOUR OF EXTERIOR FINISHES TO BE CONFIRMED BY OWNER PRIOR TO ORDERING OR FABRICATION.



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

NOTE: COLOUR OF EXTERIOR FINISHES TO BE CONFIRMED BY OWNER PRIOR TO ORDERING OR FABRICATION.



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

NOTE: COLOUR OF EXTERIOR FINISHES TO BE CONFIRMED BY OWNER PRIOR TO ORDERING OR FABRICATION.

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REVISION SCHEDULE		
ISSUED FOR:	REVISION	DATE
CONCEPTUAL	A	2020.04.15
CONCEPTUAL	B	2020.04.21
90% CLIENT REVIEW	C	2020.05.20
TENDER	D	2020.06.02

CLIENT:
CLEARHILLS COUNTY

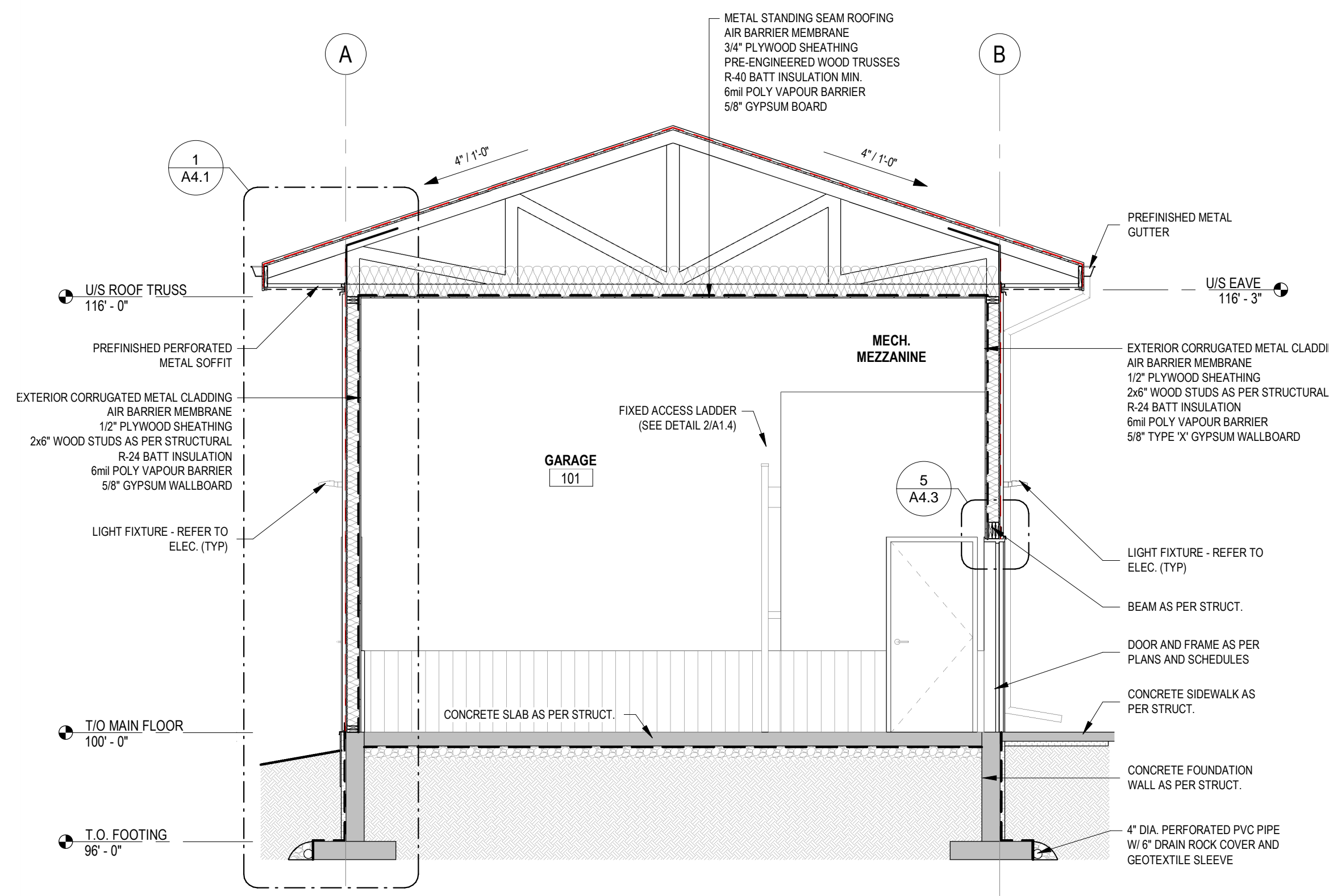
PROJECT:
CLEARHILLS FIREHALL

SITE DESCRIPTION: LOT 84 & 85, BLOCK 1, PLAN 07252595, CLEARDALE, CLEARHILLS COUNTY, AB

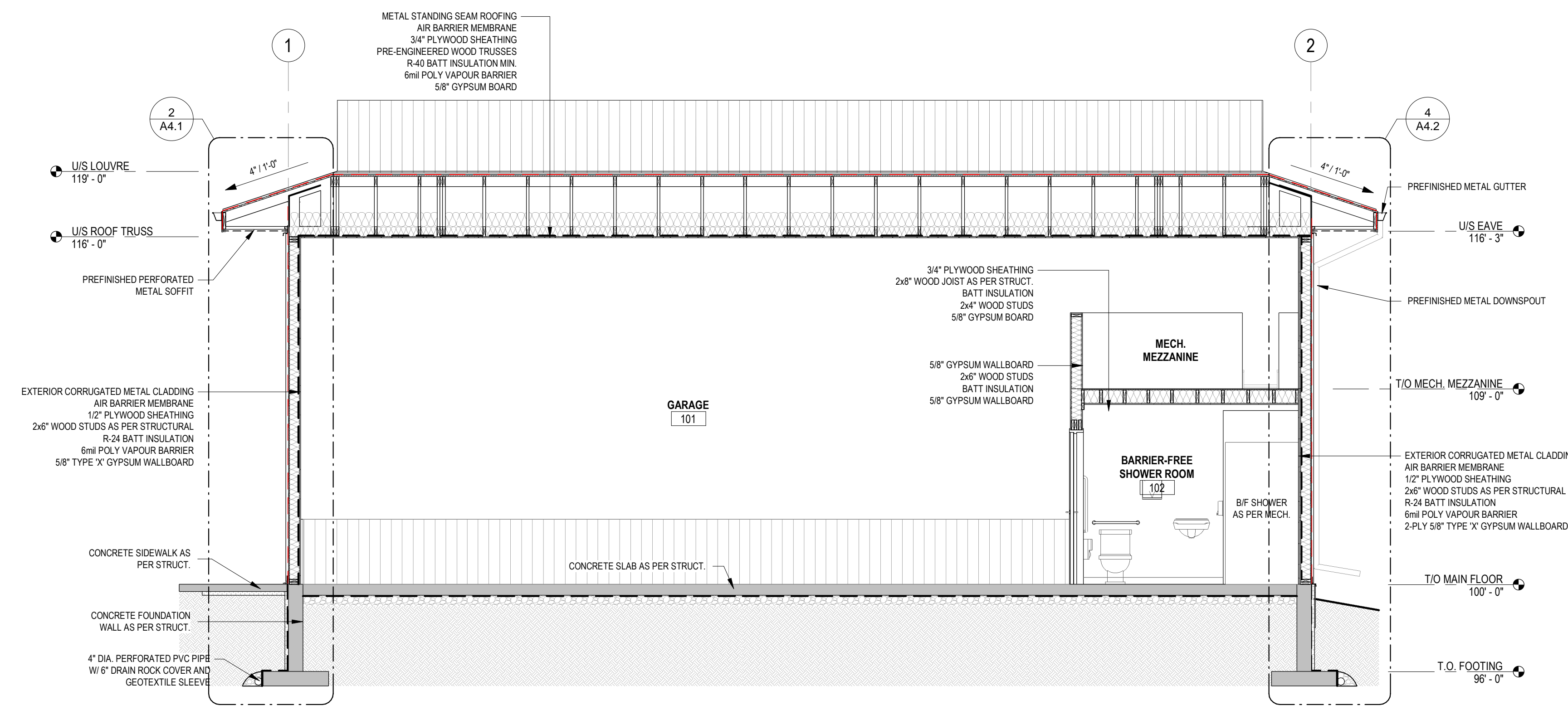
DRAWING:
ELEVATIONS

DRAWN BY:	MC	PROF. REVIEW:	BF
TECH. REVIEW:	RM	FINAL REVIEW:	BF
SPA PROJECT NUMBER:	20-048		

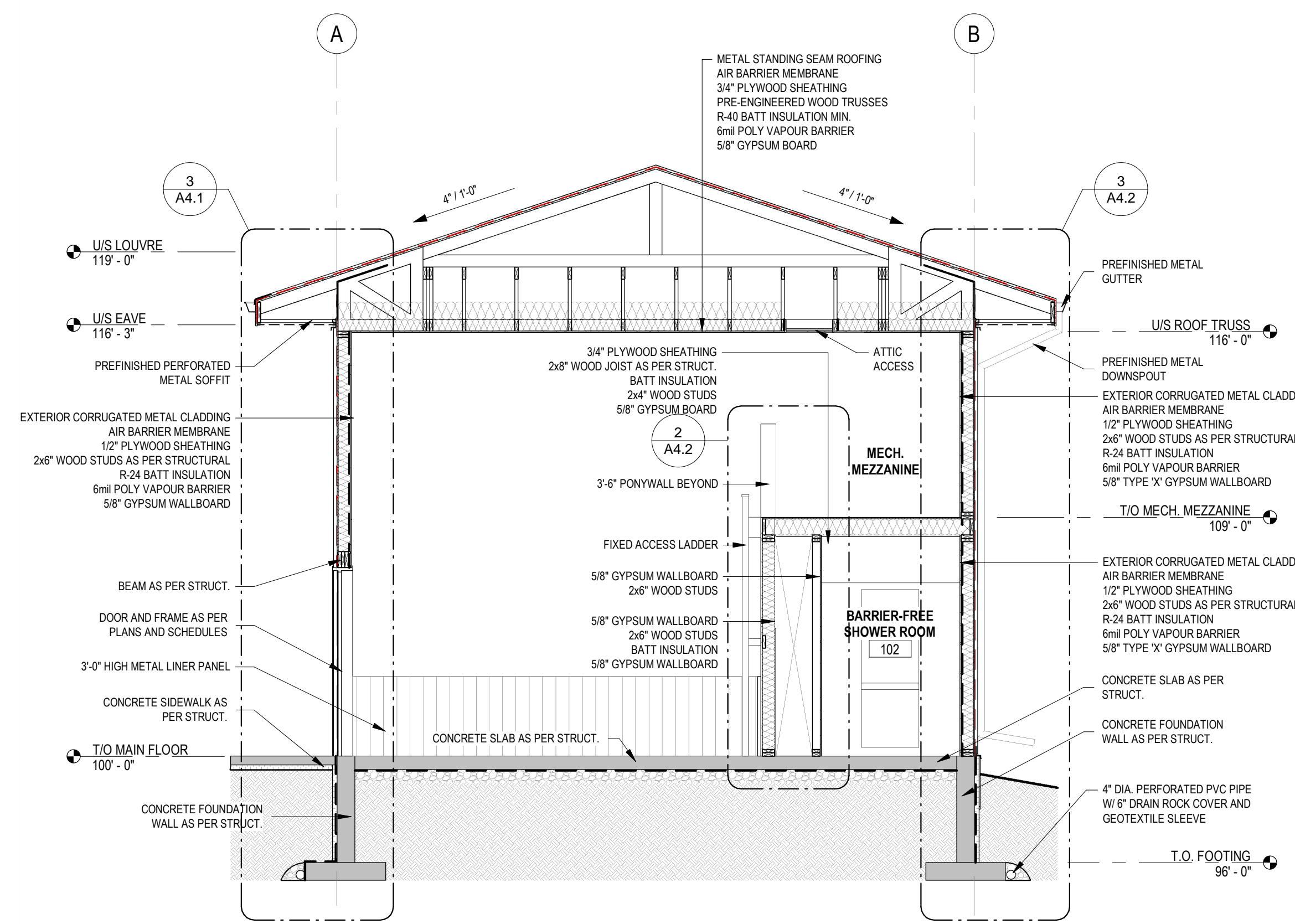
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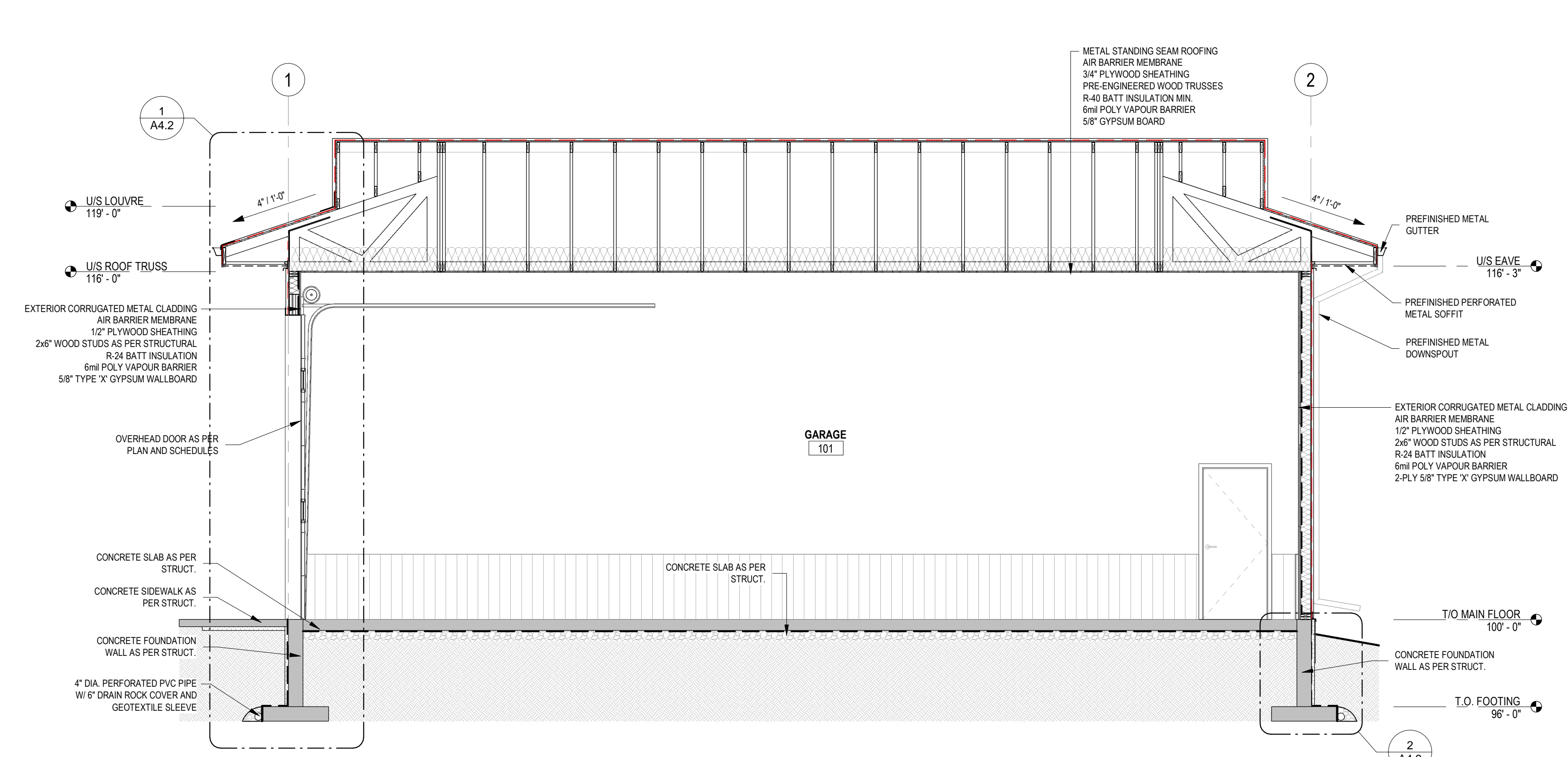
1 BUILDING SECTION
A1.2 1/4" = 1'-0"



2 BUILDING SECTION
A1.2 1/4" = 1'-0"



3 BUILDING SECTION
A1.2 1/4" = 1'-0"



4 BUILDING SECTION
A1.2 1/4" = 1'-0"

NOTES

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ISSUED FOR:	REVISION	DATE
90% CLIENT REVIEW	C	2020.05.20
TENDER	0	2020.06.02

CLIENT: **CLEARHILLS COUNTY**

PROJECT: **CLEARHILLS FIREHALL**

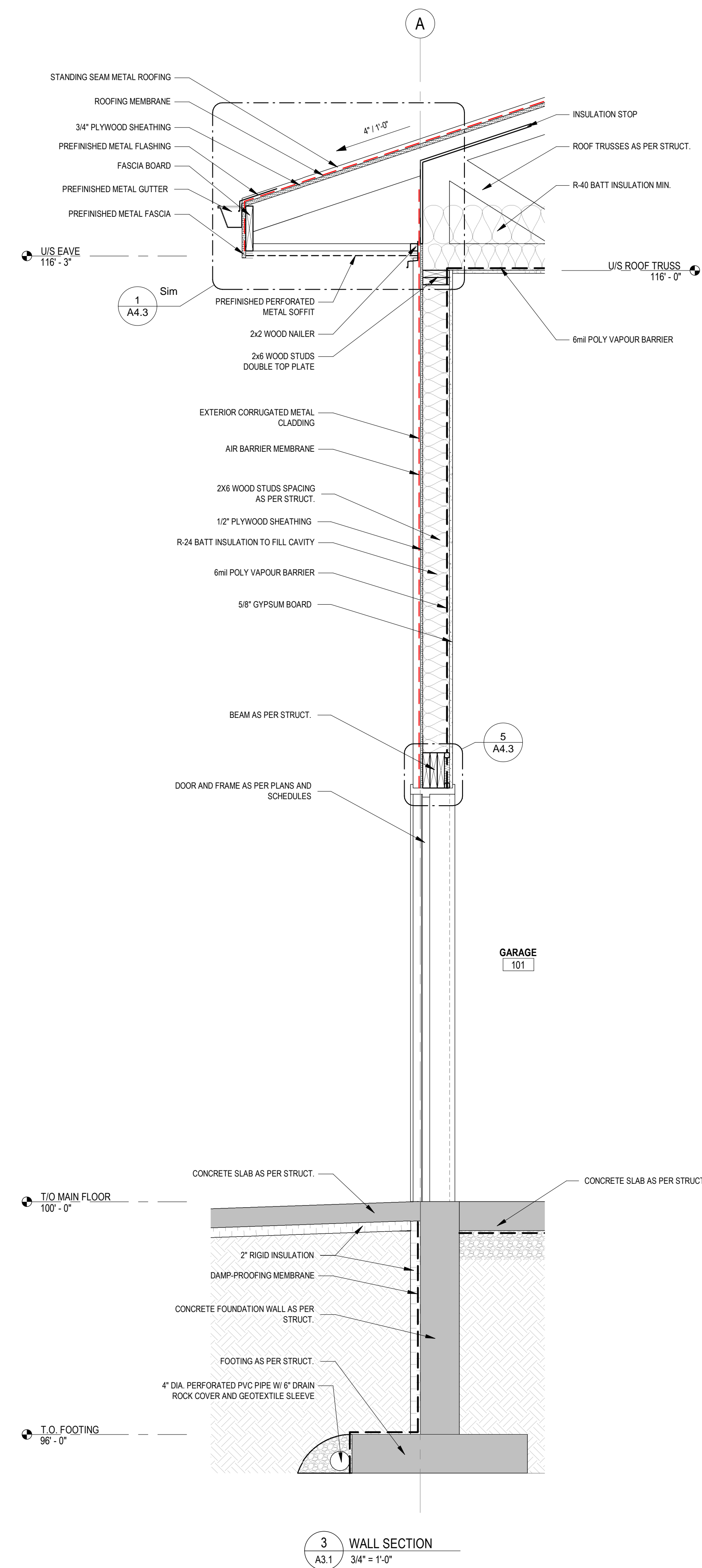
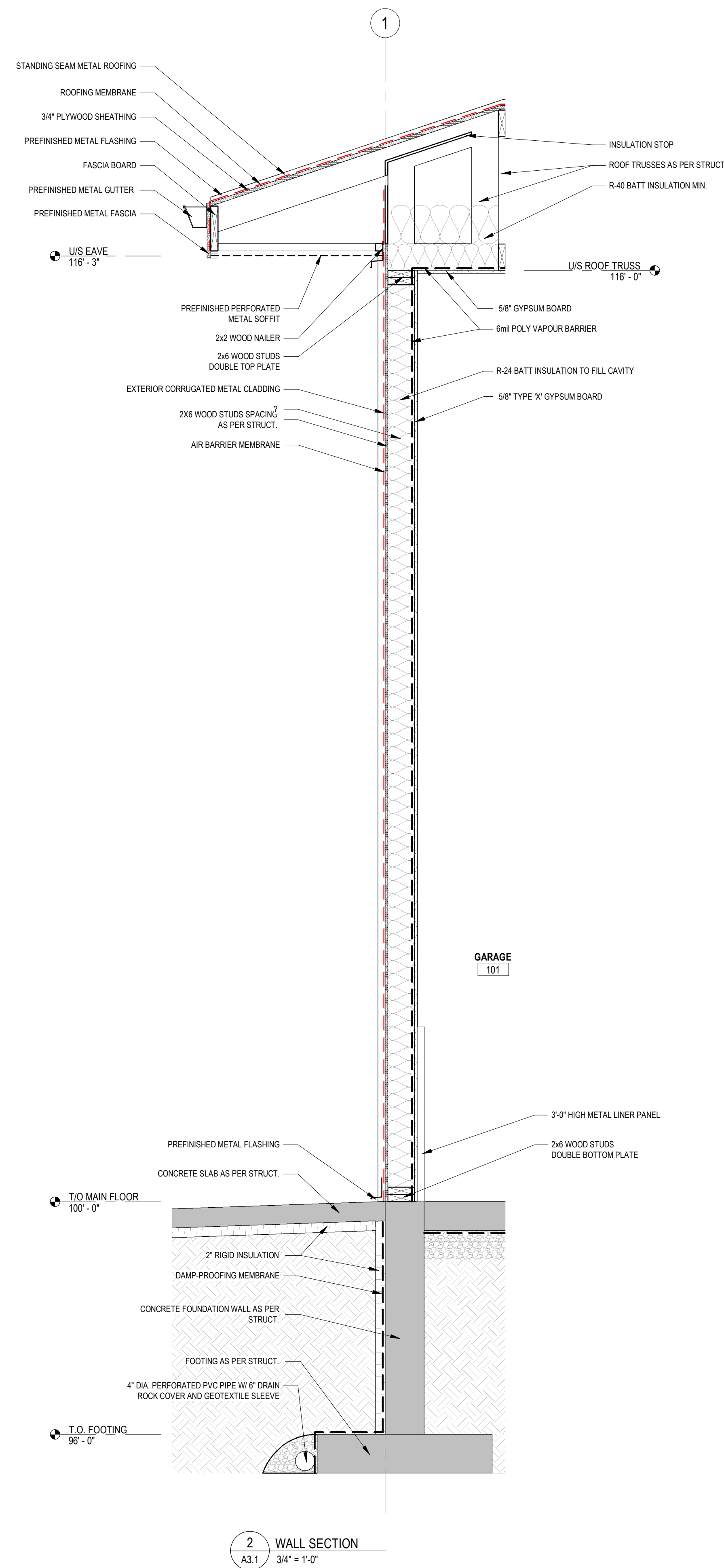
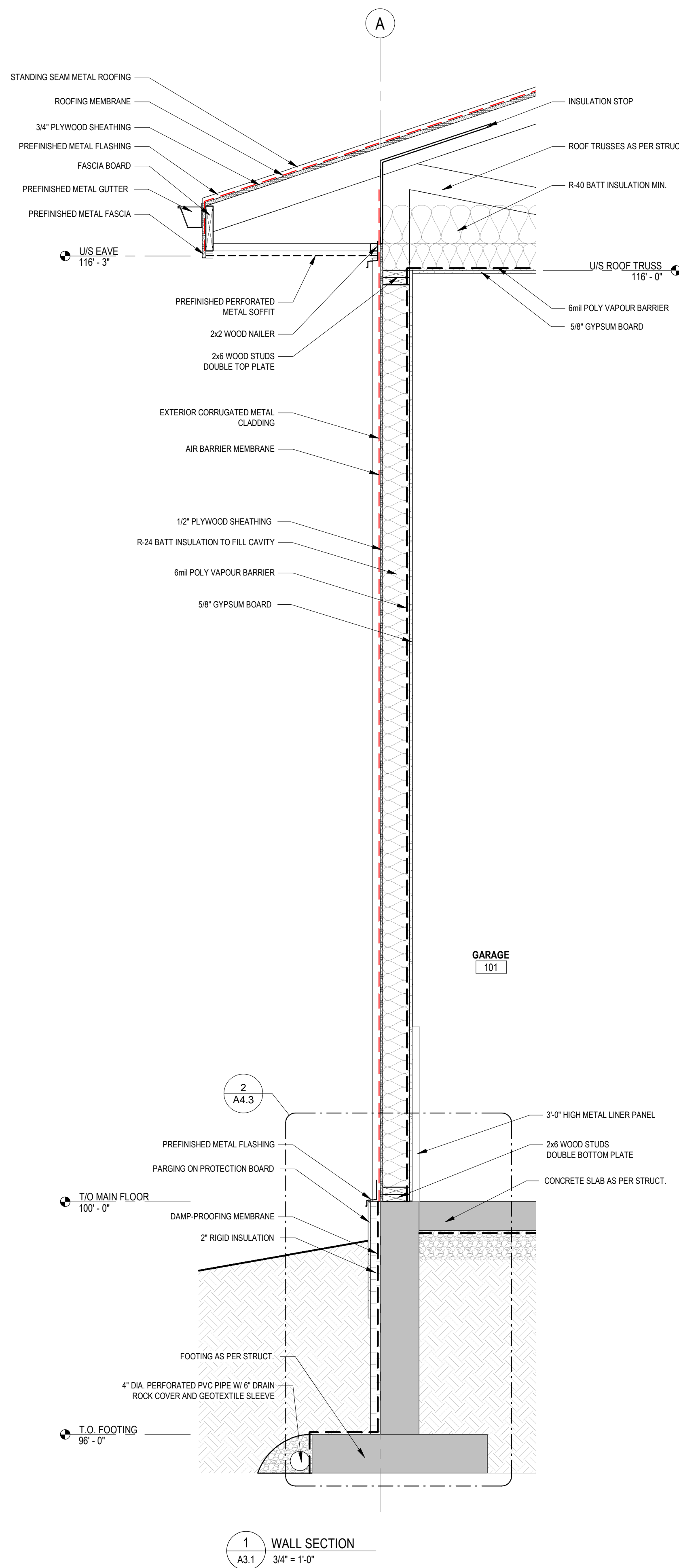
SITE DESCRIPTION: LOT 84 & 85, BLOCK 1, PLAN 07252995, CLEARDALE, CLEARHILLS COUNTY, AB

DRAWING: **BUILDING SECTIONS**

DRAWN BY:	MC	PROF. REVIEW:	BF
TECH. REVIEW:	RM	FINAL REVIEW:	BF
SPA PROJECT NUMBER:	20-048		

DRAWING NUMBER: **A3.1** REVISION: **0**

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ISSUED FOR:	REVISION	DATE
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TENDER	O	2020.06.02

CLIENT: **CLEARHILLS COUNTY**

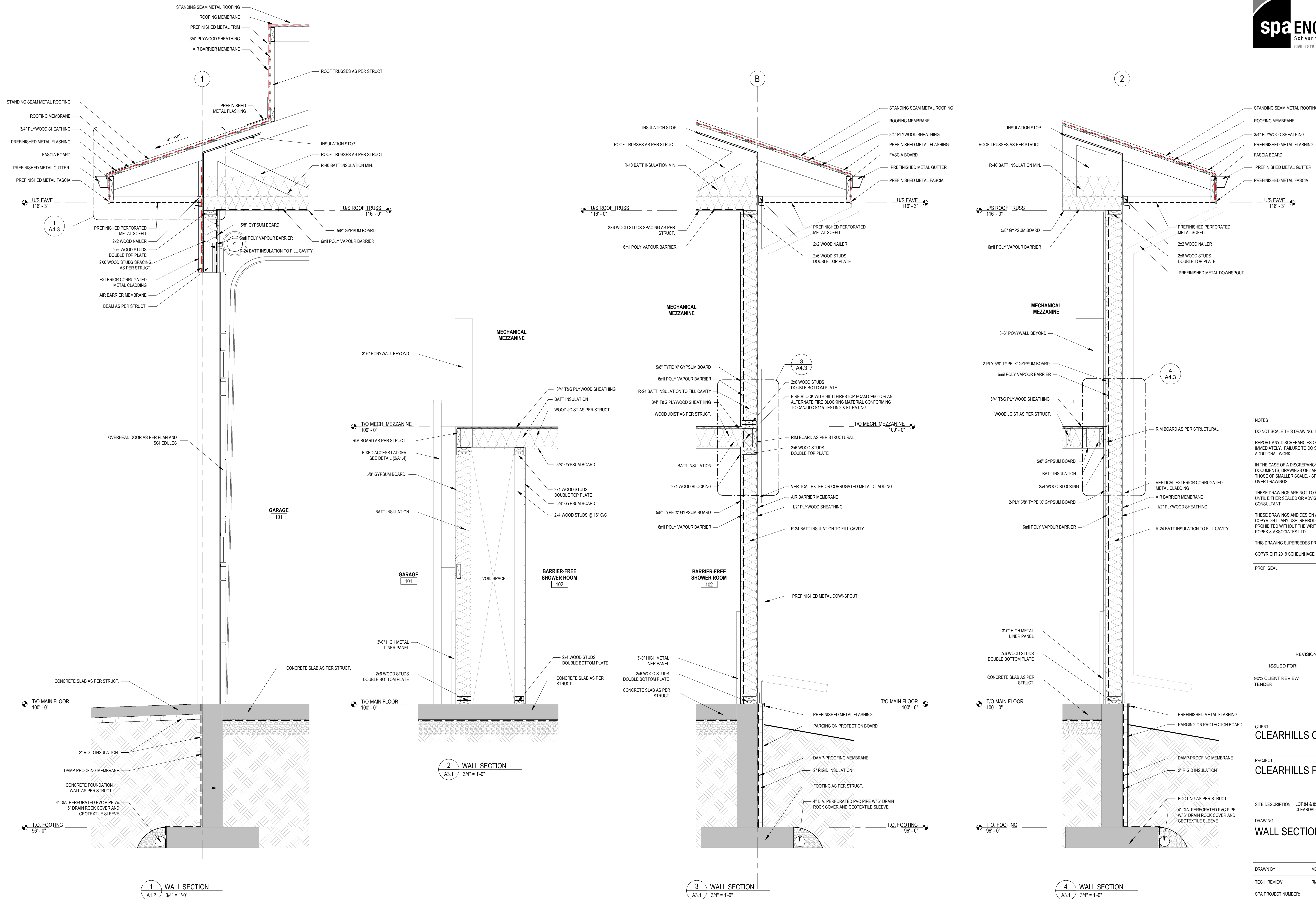
PROJECT: **CLEARHILLS FIREHALL**

SITE DESCRIPTION: LOT 84 & 85, BLOCK 1, PLAN 07252595, CLEARDALE, CLEARHILLS COUNTY, AB

DRAWING: **WALL SECTIONS**

DRAWN BY:	MC	PROF. REVIEW:	BF
TECH. REVIEW:	RM	FINAL REVIEW:	BF
SPA PROJECT NUMBER:	20-048		

DRAWING NUMBER: **A4.1** REVISION: **0**



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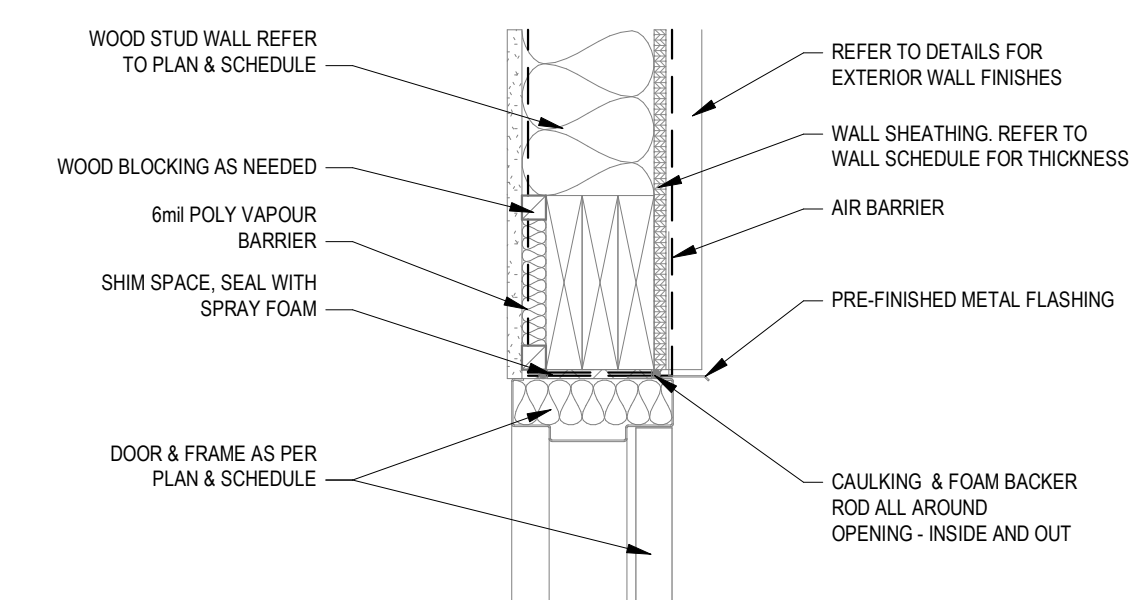
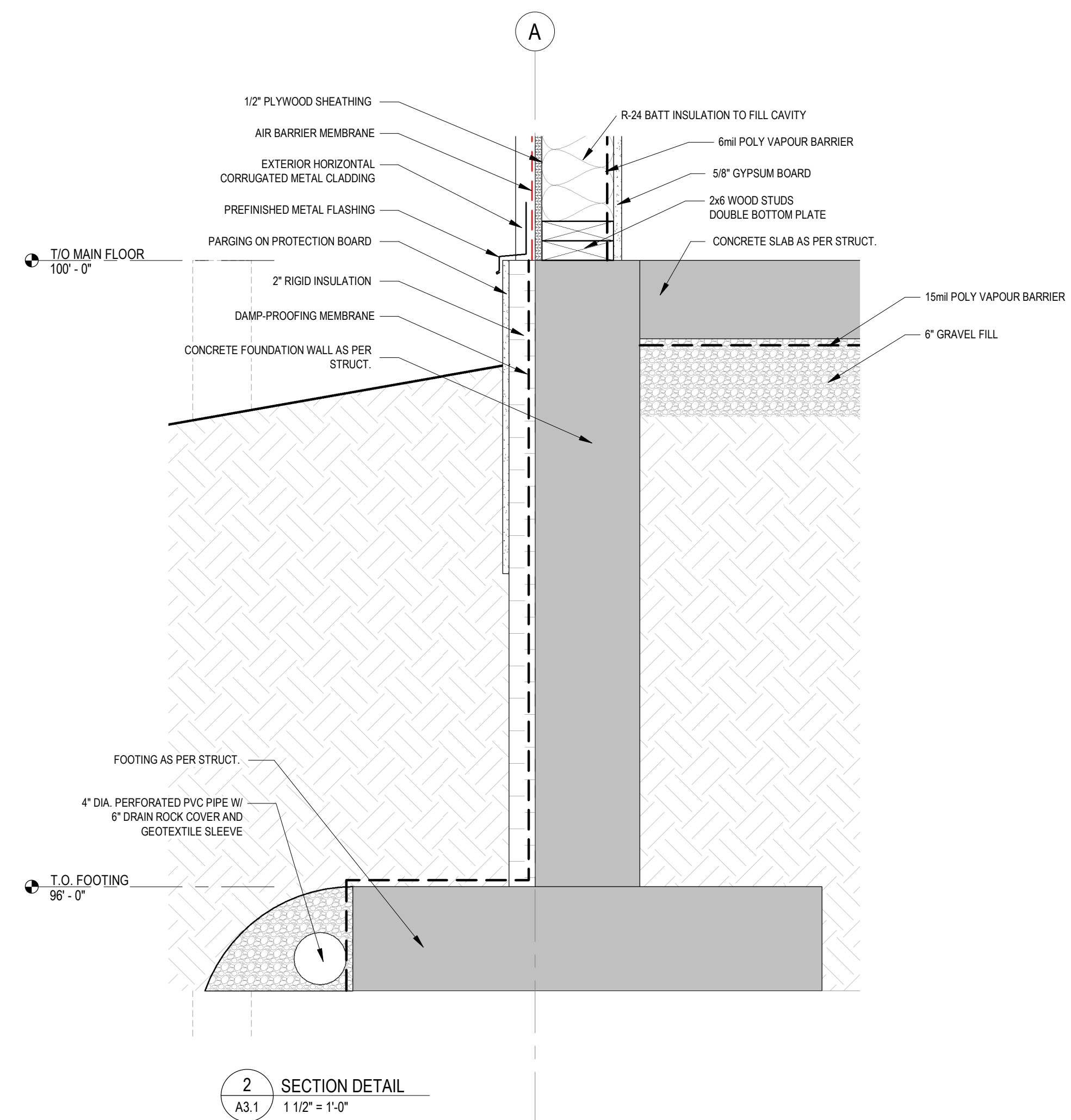
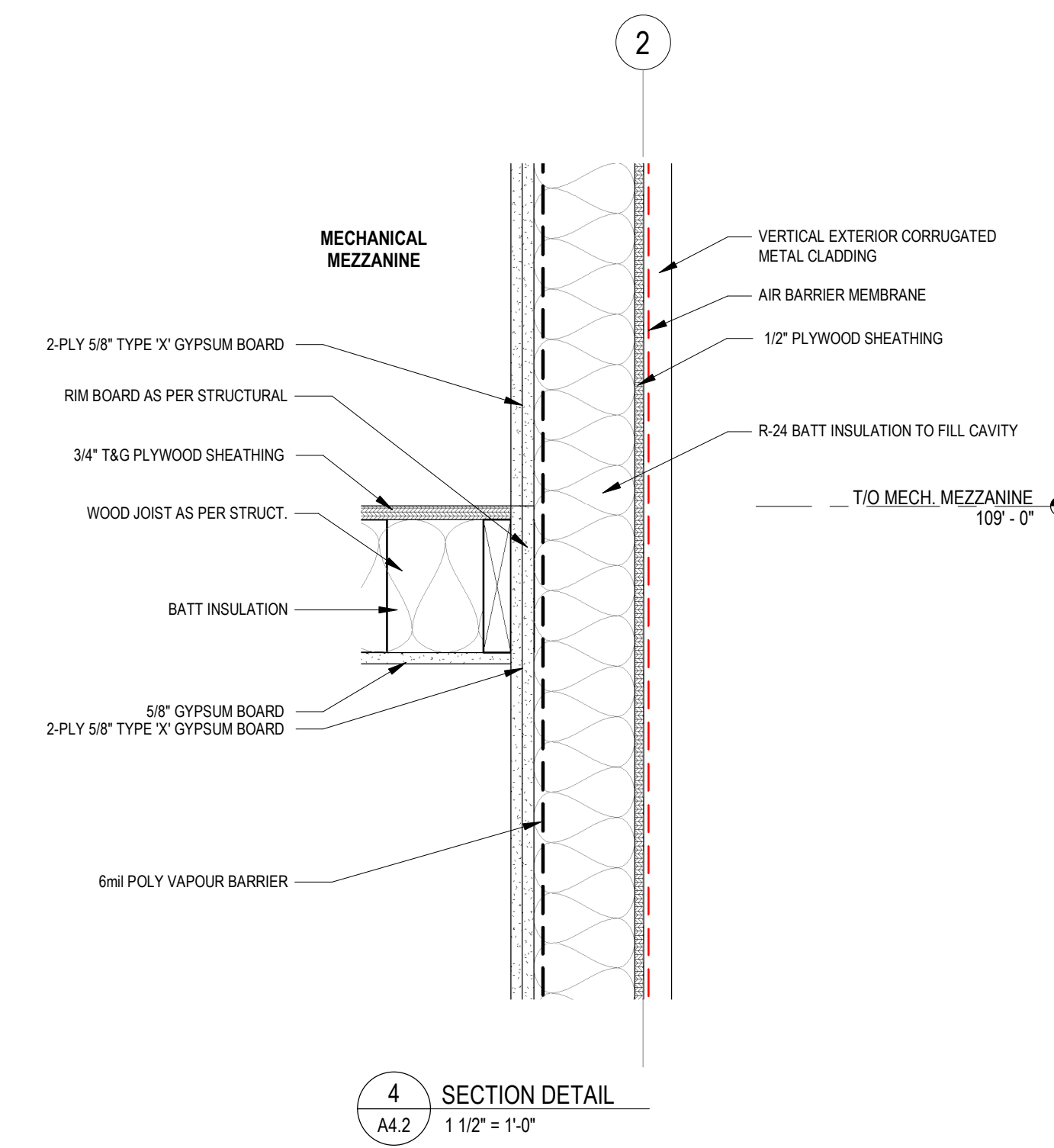
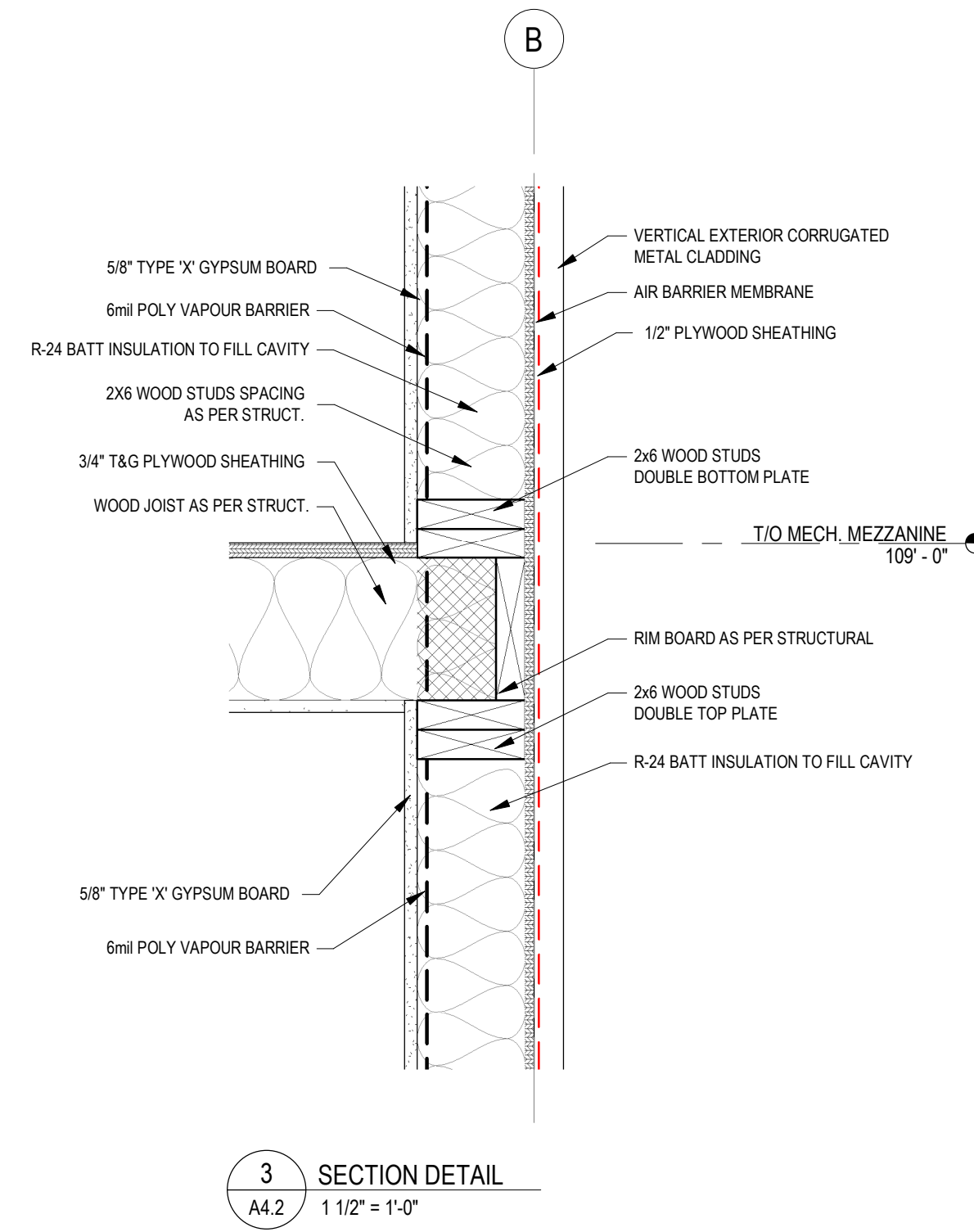
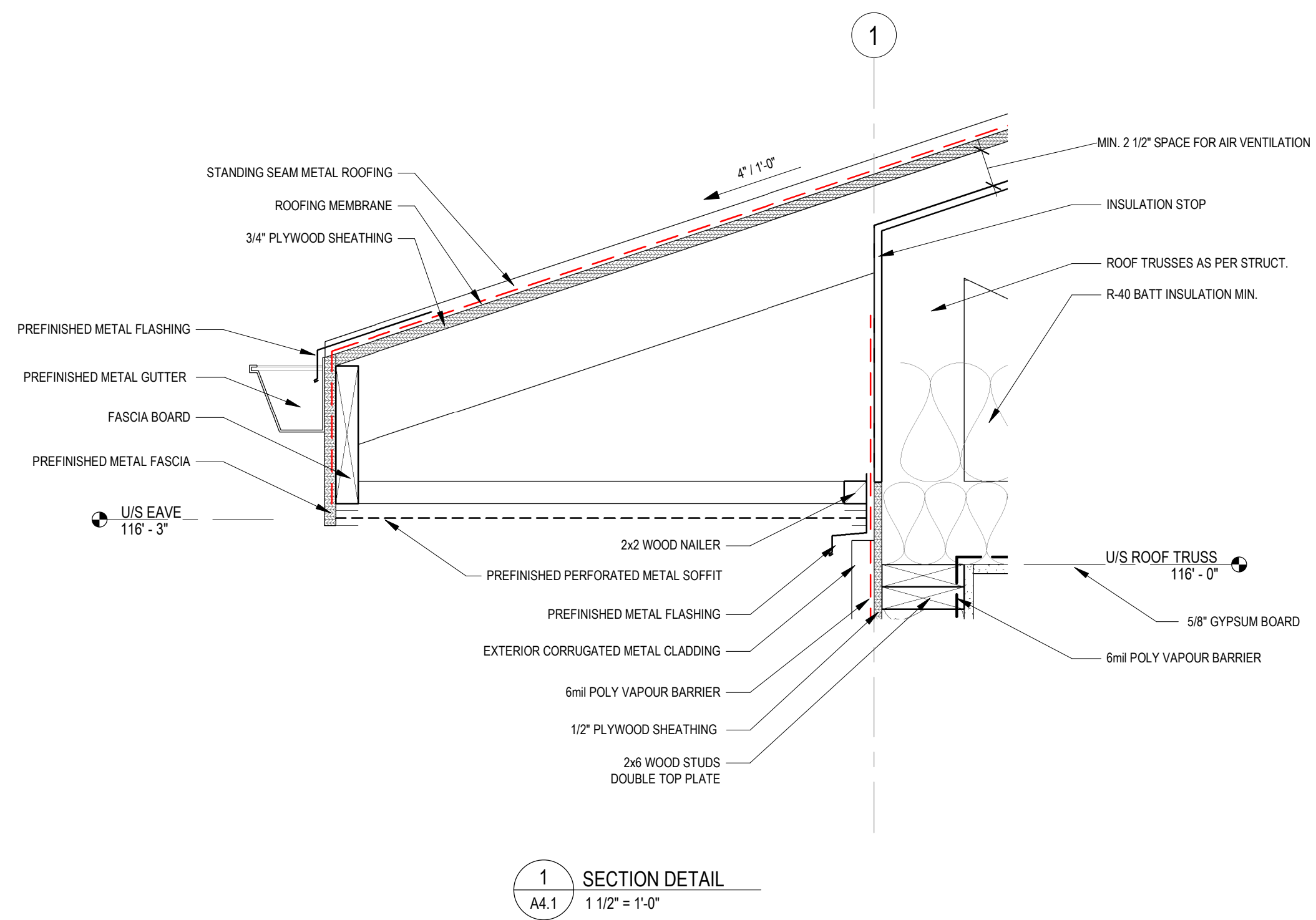
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CLIENT: CLEARHILLS COUNTY
PROJECT: CLEARHILLS FIREHALL
SITE DESCRIPTION: LOT 84 & 85, BLOCK 1, PLAN 07252955, CLEARDALE, CLEARHILLS COUNTY, AB
DRAWING: WALL SECTIONS

DRAWN BY:	MC	PROF. REVIEW:	BF
TECH. REVIEW:	RM	FINAL REVIEW:	BF
SPA PROJECT NUMBER:	20-048		

DRAWING NUMBER: **A4.2** REVISION: **0**



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TENDER	0	2020.06.02

CLIENT:
CLEARHILLS COUNTY

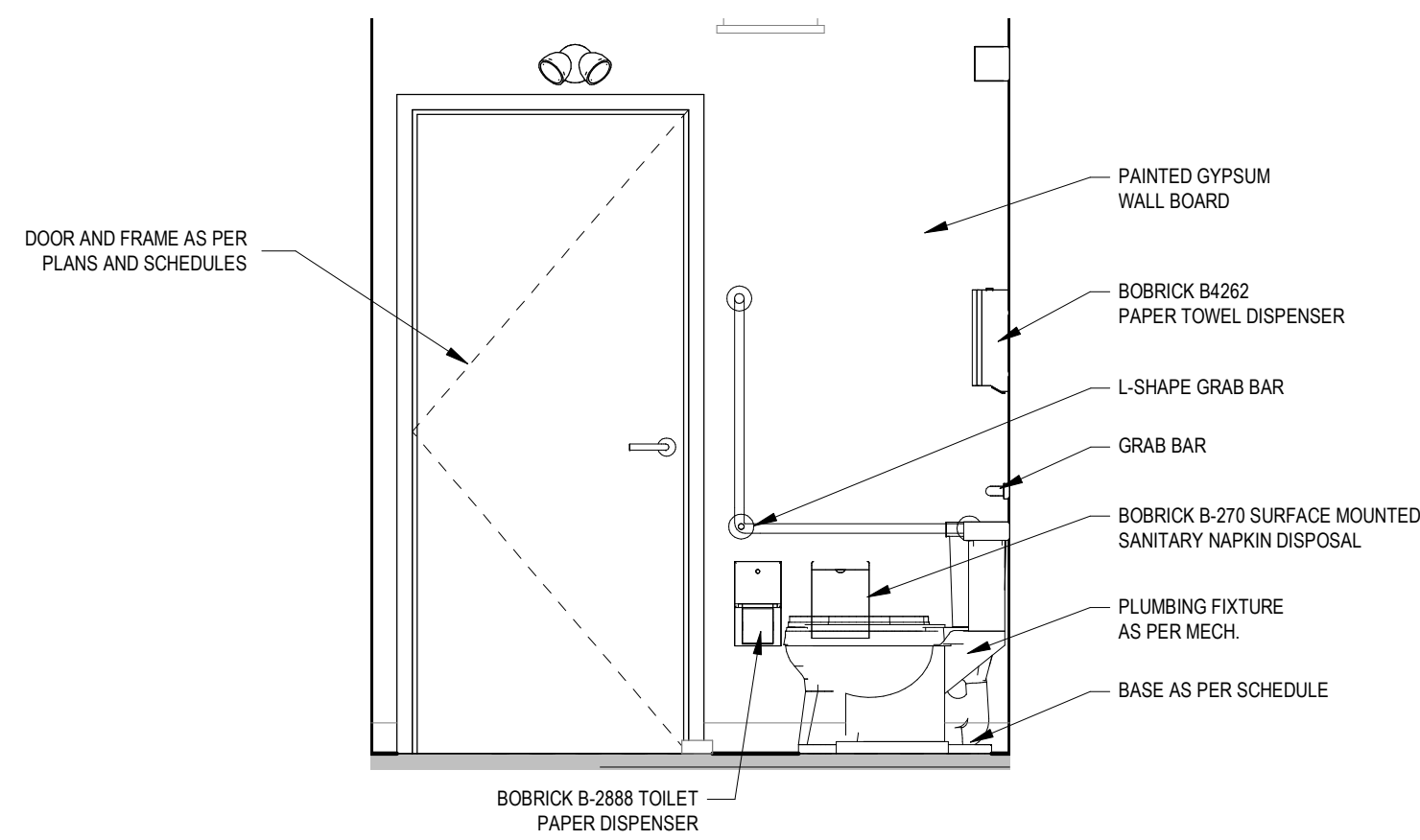
PROJECT:
CLEARHILLS FIREHALL

SITE DESCRIPTION: LOT 84 & 85, BLOCK 1, PLAN 07252595, CLEARDALE, CLEARHILLS COUNTY, AB

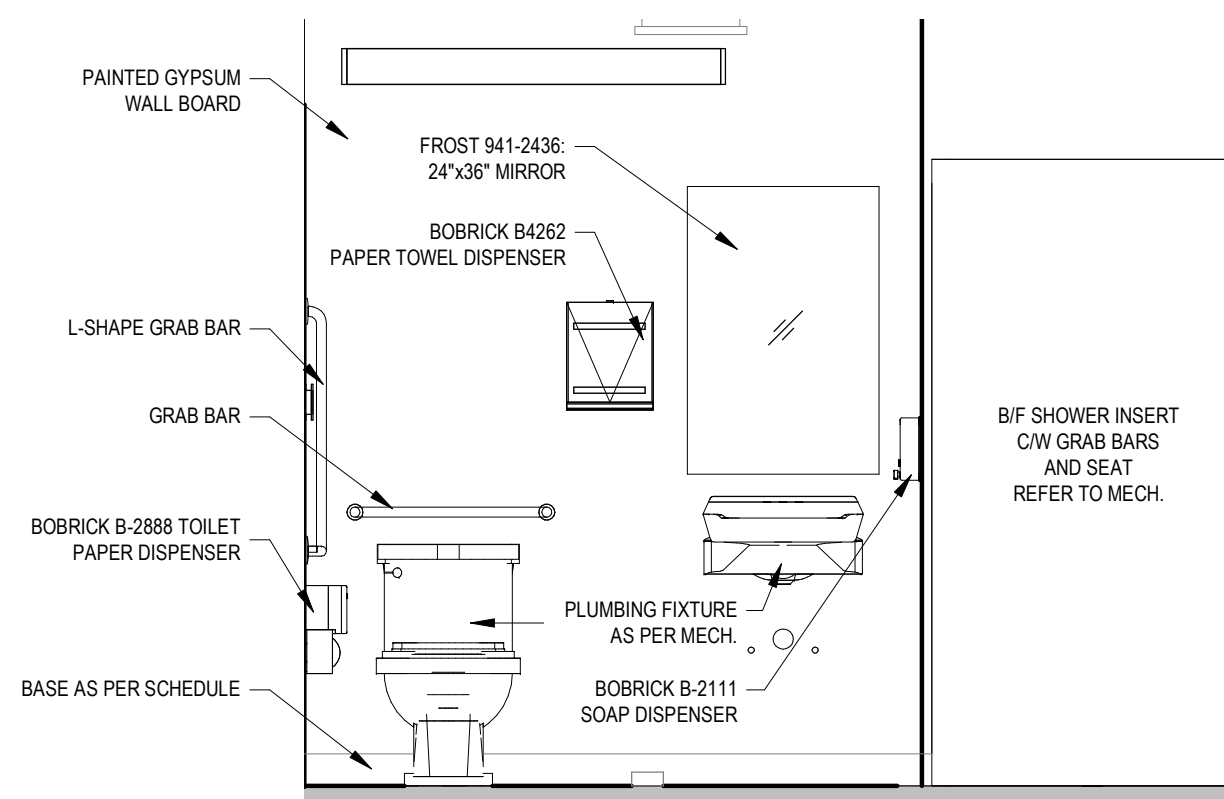
DRAWING:
DETAILS

DRAWN BY:	MC	PROF. REVIEW:	BF
TECH. REVIEW:	RM	FINAL REVIEW:	BF
SPA PROJECT NUMBER:	20-048		

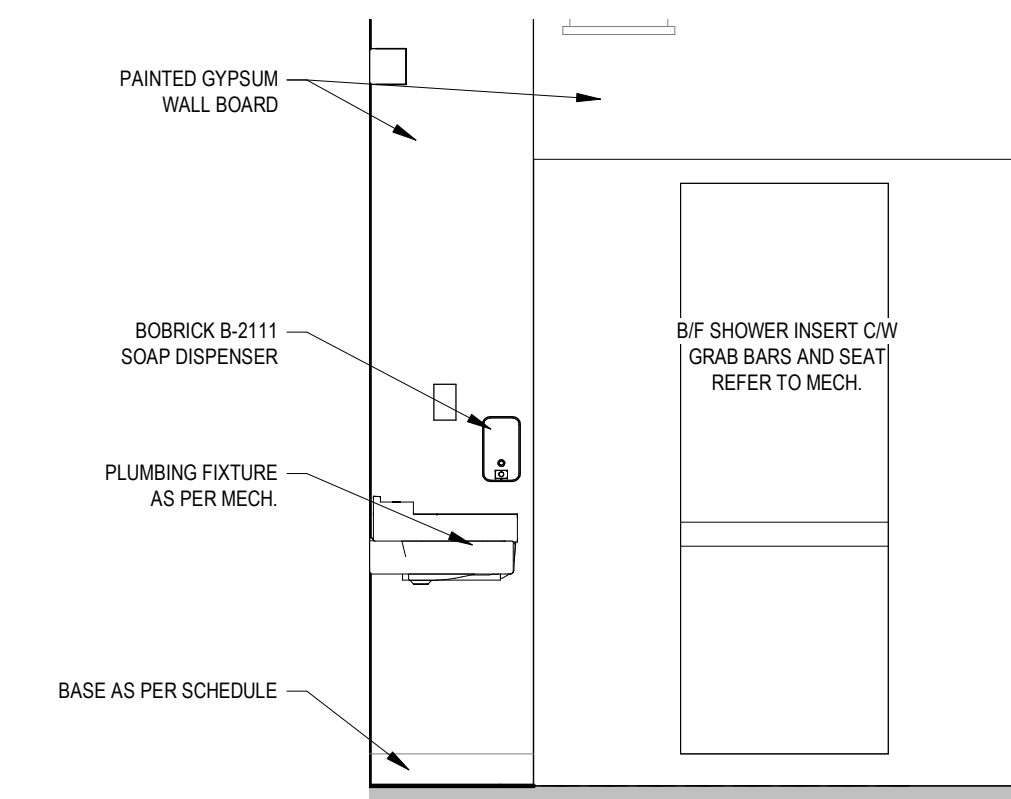
DRAWING NUMBER:	REVISION:
A4.3	0



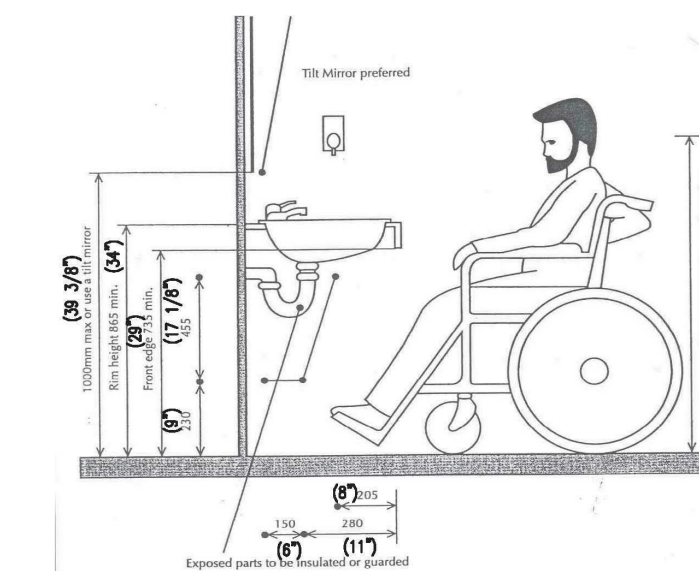
1 INTERIOR ELEVATION - B/F SHOWER ROOM
A1.2 1/2" = 1'-0"



2 INTERIOR ELEVATION - B/F SHOWER ROOM
A1.2 1/2" = 1'-0"



3 INTERIOR ELEVATION - B/F SHOWER ROOM
A1.2 1/2" = 1'-0"



4 LAVATORY MOUNTING GUIDE
1/2" = 1'-0"

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CLIENT:
CLEARHILLS COUNTY

PROJECT:
CLEARHILLS FIREHALL

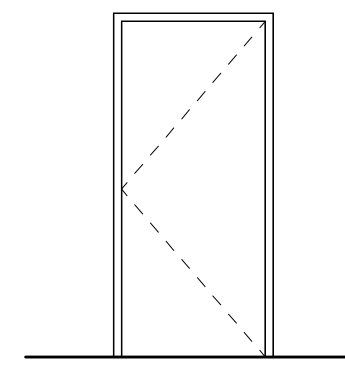
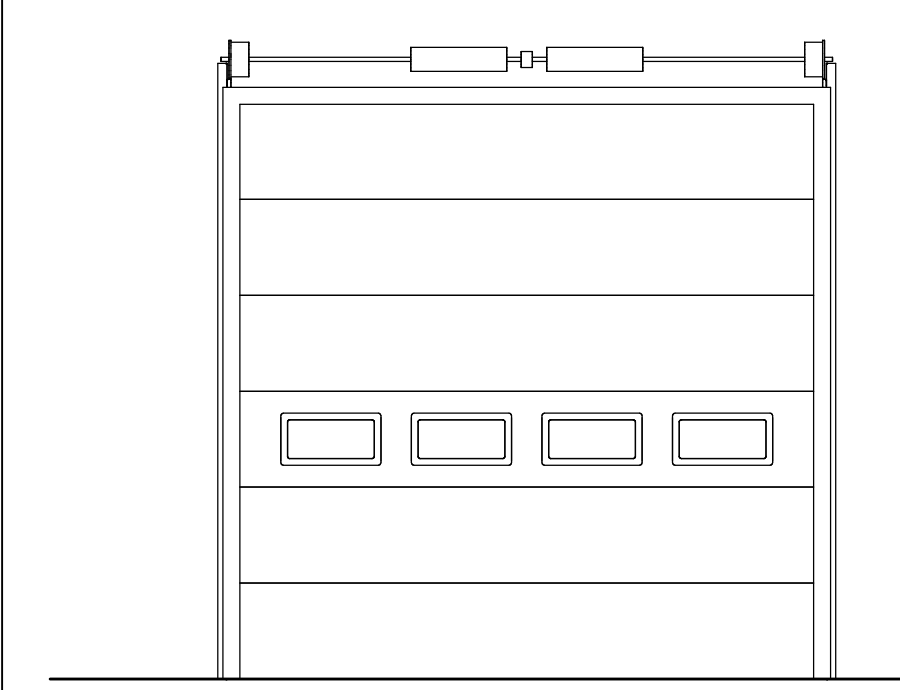
SITE DESCRIPTION: LOT 84 & 85, BLOCK 1, PLAN 07252595, CLEARDALE, CLEARHILLS COUNTY, AB

DRAWING:
INTERIOR ELEVATIONS

DRAWN BY:	MC	PROF. REVIEW:	BF
TECH. REVIEW:	RM	FINAL REVIEW:	BF
SPA PROJECT NUMBER:	20-048		

DRAWING NUMBER:	A5.1	REVISION:	0
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DOOR SCHEDULE	
DOOR AND FRAME TYPES	OVERHEAD DOOR AND FRAME TYPES
<p>DOOR 01 3'-0" x 7'-0" PAINTED INSULATED HOLLOW METAL DOOR. PAINTED INSULATED PRESSED STEEL FRAMES, 1 1/2" BUTT HINGES, DOOR CLOSER, WEATHERSTRIPPING, THRESHOLD, HANDRIP, & PASSAGE SET W/ INTEGRATED DEADBOLT SECURITY PLATE.</p> <p>DOOR 02 3'-0" x 7'-0" SOLID CORE WOOD DOOR, PAINTED PRESSED STEEL FRAMES, 1 1/2" BUTT HINGES, PRIVACY SET, WIR SIGNAGE, CLOSER, DOOR STOP.</p> 	<p>DOOR 03 - OVERHEAD DOOR 12'-0" x 12'-0" ELECTRIC OPENER, STEEL-CRAFT TD134 OVERHEAD DOORS, PRE-FINISHED STEEL SKIN, HEAVY DUTY GALVANIZED DOOR TRACK, WEATHER STRIPPING, COMPRESSIBLE BOTTOM SEAL.</p> 
<p>DOOR HARDWARE NOTES</p> <p>1) DOOR CLOSERS: -NO HOLD-OPENS REQUIRED ON FIRE-RATED DOORS. -PROVIDE STOPS ON ALL DOOR CLOSERS IF NO FLOOR STOP IS SCHEDULED. -TO BE LCN 1261 SERIES OR 4040XP SERIES CLOSERS OR APPROVED EQUAL, CW ALL NECESSARY ACCESSORIES. -ALL CLOSERS ON BARRIER FREE DOORS TO MEET BARRIER FREE BUILDING CODE REQUIREMENTS. -ALL CLOSERS TO BE 689 FINISH.</p> <p>2) LOCKSETS: -TO BE SCHLAGE GRADE 'Z' COMMERCIAL, GRADE 'A' SERIES - ORBIT TRIM. -TO BE SCHLAGE 'AL' SERIES LEVERS - SATURN TRIM (BARRIER FREE).</p> <p>3) FINISHES: -ALL HARDWARE TO BE SATIN CHROME.</p> <p>4) DOOR HINGES: -TO BE STANLEY 88108 HEAVY WEIGHT. -TO BE STANLEY 88178 STANDARD WEIGHT. -TO BE STANLEY 881409 ECONOMY HINGE. -ALL NRP HINGES FOR EXTERIOR OPENINGS. -ALL HINGES TO BE 412" x 4", FULL MORTISE.</p> <p>5) ALUMINUM ENTRANCE DOORS & FRAMES: -TO BE KAWNEER (OR EQUAL) AS FOLLOWS: -CW CUSTOM STYLE PUSH/PULL -INTERIOR DOORS & FRAMES - INSTITUTIONAL 240/TRI-FAB 21450 -EXTERIOR DOORS & FRAMES - INSULCLAD 260/INSULINE 500 -ALL FINISHES TO DOORS & FRAMES TO BE CLEAR ANODIZED.</p> <p>6) POWER DOOR OPERATORS: TO BE BESAM SW200 (OR EQUAL) AS FOLLOWS: -CW JAMB MTD. PUSHBUTTON SWITCHES - 2/DOOR -CW EMBOSSED HANDICAPPED SYMBOL. -JAMB MTD. SWITCHES FOR ENTRANCE INTO BLDG. MTD. AT LEFT HAND SIDE OF DOORS. -ENTIRE INSTALLATION & OPERATION TO MEET BARRIER FREE ACCESS REQUIREMENTS OF THE ALBERTA BUILDING CODE.</p> <p>7) PRESSED STEEL DOOR FRAMES: -INSTALL 4" HIGH HEADER ON ALL P.S. DOOR FRAMES LOCATED IN CONCRETE BLOCK WALLS. -DOOR MUTES REQUIRED IN ALL STEEL DOOR FRAMES.</p> <p>8) WEATHERSTRIPPING: -TO BE KN CROWDER WEATHERSTRIP W017N. -TO BE KN CROWDER SWEEPS W-SS. -TO BE KN CROWDER THRESHOLD CT_11_1 SIZE VARIES.</p> <p>9) MISC. ACCESSORIES: -TO BE STANDARD METAL FLOOR STOPS S102 OR S101. -TO BE STANDARD METAL KICK PLATES K10A 10x24. -TO BE STANDARD METAL PUSH PULLS 9099 C26. -TO BE STANDARD METAL EXTRA PUSH PLATE K11A 14"x16" -ALL ACCESSORIES TO BE ALUMINIUM FINISH UNLESS NOTED OTHERWISE.</p> <p>10) EXIT DEVICE: -TO BE VON DUPRIN EXIT DEVICE 22E0 SP28. -TO BE VON DUPRIN EXIT TRIM 230TP SP28 (REQUIRES MORTISE CYLINDER). -TO BE VON DUPRIN EXIT TRIM 230TP-BE SP28 (NO CYLINDER REQUIRED) PASSAGE TRIM.</p> <p>11) CYLINDERS: -TO BE SCHLAGE OR GMS CYLINDERS. -TO BE SCHLAGE 'C' OR 'C123' KEYWAY.</p>	
<p>ABBREVIATIONS</p> <p>AL = ALUMINIUM B.F. = BARRIER FREE C.A. = CLEAR ANODIZED C.F. = CLEAR FINISH G. = SINGLE GLAZING H.M. = HOLLOW METAL H.M.I. = HOLLOW METAL INSULATED (POLYSTYRENE) (P) = PAIR DOORS PT = PAINT P.F. = PREFINISHED P.S. = PRESSED STEEL S.G. = SAFETY GLASS S.D.G. = SEALED DOUBLE GLAZING S.C.W. = SOLID CORE WOOD WO. = WOOD W.G. = WIRED GLASS</p>	

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PROF. SEAL:

WALL SCHEDULE		* REFER TO ELEVATION S FOR CHANGES IN CLADDING COLOR AND ORIENTATION			
EXTERIOR WALLS	WALL DESCRIPTION	WALL DIAGRAM	INTERIOR WALLS	WALL DESCRIPTION	WALL DIAGRAM
W1	EXTERIOR CORRUGATED METAL CLADDING AIR BARRIER MEMBRANE 1/2" PLYWOOD SHEATHING 2x6" WOOD STUDS AS PER STRUCTURAL R-24 BATT INSULATION 6mil POLY VAPOUR BARRIER 5/8" GYPSUM SHEATHING 3'-0" HIGH METAL LINER PANEL		P1	5/8" GYPSUM SHEATHING 2x6 WOOD STUDS @ 16" O/C R-24 BATT INSULATION 5/8" GYPSUM SHEATHING 3'-0" HIGH METAL LINER PANEL	
W2	EXTERIOR CORRUGATED METAL CLADDING AIR BARRIER MEMBRANE 1/2" PLYWOOD SHEATHING 2x6" WOOD STUDS AS PER STRUCTURAL R-24 BATT INSULATION 6mil POLY VAPOUR BARRIER 5/8" TYPE 'X' GYPSUM SHEATHING 3'-0" HIGH METAL LINER PANEL		P2 P3	5/8" GYPSUM SHEATHING 2x6 WOOD STUDS @ 16" O/C 5/8" GYPSUM SHEATHING 3'-0" ABOVE FINISHED FLOOR	
W3	EXTERIOR CORRUGATED METAL CLADDING AIR BARRIER MEMBRANE 1/2" PLYWOOD SHEATHING 2x6" WOOD STUDS AS PER STRUCTURAL R-24 BATT INSULATION 6mil POLY VAPOUR BARRIER 5/8" TYPE 'X' GYPSUM SHEATHING		<p>NOTES</p> <ul style="list-style-type: none"> CONTRACTORS, TRADE CONTRACTORS, SUB-CONTRACTORS AND INSTALLERS SHALL ENSURE ALL EXTERIOR FINISHES, VENEERS AND FACADES ARE CONSTRUCTED OR INSTALLED UTILIZING A MINIMUM 1/2" (10mm) RAINSCREEN DRAINAGE LAYER IN ACCORDANCE WITH IRC/CIRC CONSTRUCTION TECHNOLOGY UPDATE NO. 34. RAINSCREEN DRAINAGE SYSTEM SPECIFICATIONS AND INSTALLATION PROCEDURES SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW PRIOR TO INSTALLATION. THE CONSULTANT DOES NOT APPROVE, WARRANT OR GUARANTEE THE INSTALLATION OF ANY EXTERIOR FINISH OR BUILDING ENVELOPE COMPONENT THAT DOES NOT MAINTAIN RAINSCREEN TECHNOLOGY. CONTROL JOINTS ARE TO BE PROVIDED AT A MAXIMUM 12'-0" (4m) O.C. HORIZONTAL AND VERTICAL. FOR ALL EXTERIOR FINISHES, OR AS RECOMMENDED BY MANUFACTURER'S SPECIFICATIONS. 		
W4	EXTERIOR CORRUGATED METAL CLADDING AIR BARRIER MEMBRANE 1/2" PLYWOOD SHEATHING 2x6" WOOD STUDS AS PER STRUCTURAL R-24 BATT INSULATION 6mil POLY VAPOUR BARRIER 2-PLY 5/8" TYPE 'X' GYPSUM SHEATHING 3'-0" HIGH METAL LINER PANEL		W5	EXTERIOR CORRUGATED METAL CLADDING AIR BARRIER MEMBRANE 1/2" PLYWOOD SHEATHING 2x6" WOOD STUDS AS PER STRUCTURAL R-24 BATT INSULATION 6mil POLY VAPOUR BARRIER 2-PLY 5/8" TYPE 'X' GYPSUM SHEATHING	

REVISION SCHEDULE		
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TENDER	0	2020.06.02

CLIENT:
CLEARHILLS COUNTY

PROJECT:
CLEARHILLS FIREHALL

SITE DESCRIPTION: LOT 84 & 85, BLOCK 1, PLAN 07252955, CLEARDALE, CLEARHILLS COUNTY, AB

DRAWING:
SCHEDULES

DRAWN BY: MC PROF. REVIEW: BF

TECH. REVIEW: RM FINAL REVIEW: BF

SPA PROJECT NUMBER: 20-048

DRAWING NUMBER: **A6.1** REVISION: **0**

STANDARD ARCHITECTURAL DRAWING ABBREVIATIONS				ROOM FINISHES			
ADJ	ADJUSTABLE	FD	FLOOR DRAIN	N/A	NOT APPLICABLE	CP	CARPET
AFF	ABOVE FINISHED FLOOR	FE	FIRE EXTINGUISHER	N.I.C.	NOT IN CONTRACT	CPT	CARPET TILE
ALT	ALTERNATE	FEC	FIRE EXTINGUISHER CABINET	N.S.	NEAR SIDE	CT	CERAMIC TILES
ALUM.	ALUMINIUM	FFE	FURNITURE FINISHES & EQUIPMENT	N.T.S	NOT TO SCALE	CTB	CERAMIC TILE BASE
APPROX OR ±	APPROXIMATELY	FLR	FLOOR	No. OR #	NUMBER	EC	EXPOSED CONCRETE
ARCH	ARCHITECT	FRR	FIRE RESISTANCE RATING			ECH	EXPOSED CONCRETE WITH HARDNER
BOT	BOTTOM	FRS	FIRE SHUTTER	O.D	OUTSIDE DIAMETER	FBS	FINISH BY SUPPLIER
BLK	BLOCK	FRR	FLOOR	O.F	OUTSIDE FACE	FRB	FIBRE REINFORCED PANELS
BLOG	BUILDING	FURR	FURRING	OPP	OPPOSITE	FCT	FIRE RATED SUSPENDED ACOUSTIC TILE
CL	CENTRE LINE	GA.	GAUGE	OPNG	OPENING	GCT	GLAZED CERAMIC TILES
CLG	CEILING	GALV	GALVANIZED	O/C	ON CENTRE	GD	HEAVY DUTY
CLR	CLEAR	GL	GLASS	PERIM	PERIMETER	HD	LATEX PAINT
CC	CENTRE TO CENTRE	GWB	GYPSUM WALL BOARD	POLY	POLYETHYLENE	LPT	PREFINISHED METAL LINER PANEL
CW	COMPLETE WITH	GWB WR	GYPSUM WALL BOARD, WATER RESISTANCE	PVC	POLYVINYL CHLORIDE	MLP	PREP. FOR TENANT FINISH
COL	COLUMN	HDR	HEADER	R	RISER	PLP	PLYWOOD LINER PANEL
CONC	CONCRETE	HDW	HARDWARE	RD	RADIUS	PO	PAINT OUT
CONT	CONTINUOUS	HM	HOLLOW METAL	REQ	REQUIRED	PS	PAINTED STRUCTURE
CORR	CORRIDOR	HORZ	HORIZONTAL	REV	REVISION	PA	PORCELAIN TILE
DP	DEEP OR DEPTH	HTD	HOLD TO DIMENSION	RM	ROOM	PWB	PAINTED WOOD BASE
DIA OR Ø	DIAMETER	IC	IN CENTRE	RO	ROUGH OPENING	QT	QUARRY TILES
DIAG	DIAGONAL	ID	INSIDE DIAMETER	RD	ROOF DRAIN	RB	RUBBER BASE
DIM	DIMENSION	IF	INSIDE FACE	SEC	SECTION	SC	TOP & BOTTOM
DN	DOWN	INCL	INCLUDING	SIM	SIMILAR	SCT	TO BE DETERMINED
DFP	DOOR FINISH	INSUL	INSULATION	SPEC	SPECIFICATION	SF	SHEET FLOORING W/ WELDED EDGES
DO OR Dø	DITTO	INT	INTERIOR	STD	STANDARD	SWB	SHEATHED WOOD BASE
DWG	DRAWING	LG	LONG	STRUCT	STRUCTURAL	UNO	UNLESS NOTED OTHERWISE
E.E	EACH END	LOC	LOCATION	SYM	SYMMETRICAL	US	UNDERSIDE OF
E.F.	EACH FACE	LONGIT	LONGITUDINAL	T&B	TOP & BOTTOM	US	UNDERSIDE OF
E.J.	EXPANSION JOINT	MAX	MAXIMUM	TBD	TO BE DETERMINED	VF	UNFINISHED
E.S.	EACH SIDE	MECH	MECHANICAL	TYP	TYPICAL	UF	UNFINISHED CONCRETE
E.W.	EACH WAY	MEZZ	MEZZANINE	UNO	UNLESS NOTED OTHERWISE	US	UNDERSIDE OF STRUCTURE
EL OR ELEV	ELEVATION	MIN	MINIMUM	US	UNDERSIDE OF	VT	VINYL TILE
ELEC	ELECTRICAL	MISC	MISCELLANEOUS	VE	VESTIBULE		
EQ	EQUAL			W	WITH		
EQ SP	EQUAL SPACES			WC	WITH WATER CLOSET		
EXIST, EXT'G OR EX.	EXISTING						
EXP	EXPOSED						
EXP.N	EXPANSION						
EXP.S	EXPOSED STRUCTURE						
EXT	EXTERIOR						

ROOM FINISH SCHEDULE										
Room Number	Room Name	Floor Finish	Base Finish	Wall Finish				Ceiling Finish	Ceiling Height	Comments
				North	East	South	West			
101	GARAGE	SC	MLP	LPT	LPT	LPT	LPT	LPT	15' - 11 3/8"	3'-0" HIGH MLP ABOVE FINISHED MAIN FLOOR
102	BARRIER-FREE SHOWER ROOM	SC	RB	LPT	LPT	LPT	LPT	LPT	7' - 11 7/8"	

DESIGN LOADS - CLEARDALE, AB

ALL LOADS OUTLINED IN ALBERTA BUILDING CODE 2019 UNLESS NOTED OTHERWISE. SPECIFIED LOADS ARE SHOWN:

- BUILDING IMPORTANCE CATEGORY + POST DISASTER BUILDING IMPORTANCE FACTOR**
(B1) 25(ULS) 0.9(SLS)
(W1) 25(ULS) 0.75(SLS)
- LATERAL LOADS FROM WIND AND SEISMIC**
 - FOR WIND LOADS:

REFERENCE VELOCITY PRESSURE (v 110)	0.27 kPa
REFERENCE VELOCITY PRESSURE (v 150)	0.35 kPa
 - FOR SEISMIC LOADS:

Sa (0.2)	0.121
Sa (0.1)	0.071
Sa (1.0)	0.041
Sa (2.0)	0.020
Sa (5.0)	0.009
Sa (10.0)	0.0025
PGA	0.075
 - LATERAL LOADS FROM WIND AND SEISMIC ARE RESISTED BY STEEL BRACING.
- SPECIFIED IMPOSED LOADS FOR FLOOR AND ROOF DESIGN (UNLESS SHOWN OTHERWISE ON PLANS)**
 - ROOF LOADS:

SNOW	2.53 kPa + DRIFT
RAIN	0.10 kPa
ONE DAY RAIN (24 HOURS)	86mm
- CLIMATE LOADS FROM SNOW**
 - FOR SNOW LOADS:

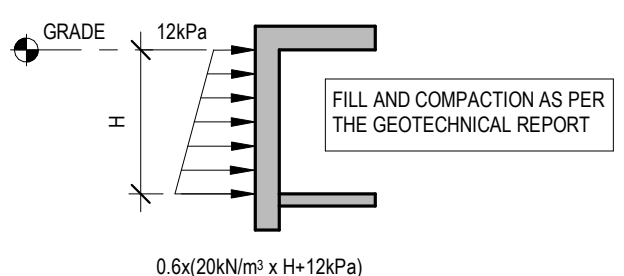
Ss (150)	2.4kPa
Ss (100)	0.1kPa

GENERAL STRUCTURAL NOTES

- READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL DRAWINGS, SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS FOR DETAILED DIMENSIONS OF DOORS, WINDOWS, DUCTS, OPENINGS, REBATES, CHASERS, NALERS, ETC.
 - CHECK AND VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS BEFORE COMMENCING ANY WORK. NOTIFY THE ARCHITECT OF ANY ERRORS OR OMISSIONS.
 - DRAWINGS SHOW COMPLETED STRUCTURES ONLY. TEMPORARY BRACING FOR CONSTRUCTION LOADING CONDITIONS IS THE RESPONSIBILITY OF ITS CONTRACTOR.
 - DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION"
- SUBMISSIONS AND INSPECTIONS**
- ALL REQUIRED SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO START OF FABRICATION. SHOP DRAWINGS REQUIRING PROFESSIONAL ENGINEER'S SEAL WILL NOT BE ACCEPTED WITHOUT IT.
 - NOTIFY THE ENGINEER 48 HOURS IN ADVANCE FOR INSPECTION AND APPROVAL OF THE FOLLOWING:
 - CONCRETE REINFORCEMENT BEFORE EACH POUR BEFORE COVERING UP
 - WOOD FRAMING
- SCHUEINHAJE POPEK & ASSOCIATES LTD. WILL REVIEW SHOP DRAWINGS PERTAINING TO WORK SHOWN ON SCHEINHAJE POPEK'S DRAWINGS. THE EXTENT OF THIS REVIEW IS AT THE SOLE DISCRETION OF SCHEINHAJE POPEK'S ENGINEER AND IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMANCE WITH THE STRUCTURAL DESIGN CONCEPT. THE REVIEW IS NOT AN APPROVAL OF THE DESIGN, DETAILS AND DIMENSIONS INHERENT IN THE CONTRACTORS SUBMITTING THEM. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE SHOP DRAWINGS OR FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.

GEOTECHNICAL NOTES - FOOTINGS

- A GEOTECHNICAL INVESTIGATION TO BE CONDUCTED BY A PROFESSIONAL GEOTECHNICAL ENGINEER AND REPORT ISSUED TO CONSULTANT ENGINEER PRIOR TO FOUNDATION WORK CONSTRUCTION.
- THE GEOTECHNICAL ENGINEER OF RECORD SHALL AFTER EXCAVATION REVIEW ALL BEARING SOIL CONDITIONS PRIOR TO PLACEMENT OF FOUNDATIONS. TO ENSURE ADEQUATE SOIL MATERIAL AND BEARING CAPACITY IS PROVIDED FOR THE FOUNDATIONS AS INDICATED ON THE CONSTRUCTION DOCUMENTS.
- THE GEOTECHNICAL ENGINEER SHALL PROVIDE LETTERS OF ASSURANCE TO THE COORDINATING PROFESSIONAL AS PER THE REQUIREMENTS OF THE CURRENT PROVINCIAL BUILDING CODE.
- FOOTING FOUNDATION NOTES:
 - CAST-IN-PLACE CONCRETE: STRIP FOOTINGS HAVE BEEN DESIGNED ON THE BASIS OF AN ALLOWABLE BEARING PRESSURE OF 90 kPa
 - FOOTING SHALL BE PLACED AT A MINIMUM DEPTH OF 4'-0" OR AS REQUIRED BY THE GEOTECHNICAL ENGINEER OF RECORD
 - UNLESS SHOWN OTHERWISE, CENTER FOOTINGS UNDER WALLS OR PIERS.
- LATERAL SOIL PRESSURE ON WALLS INCLUDING SURCHARGE SHALL BE AS FOLLOWS. UNLESS NOTED IN THE GEOTECHNICAL REPORT:



NON-STRUCTURAL ELEMENTS

- "NON-STRUCTURAL" OR "SECONDARY STRUCTURAL" ELEMENTS ARE NOT THE RESPONSIBILITY OF SCHEINHAJE POPEK & ASSOCIATES LTD. WHERE STRUCTURAL ENGINEERING RESPONSIBILITY IS REQUIRED FOR THESE ELEMENTS, THIS SHALL BE PROVIDED BY THE SPECIALTY STRUCTURAL ENGINEERS, WHO SHALL ALSO PROVIDE ANY LETTERS REQUIRED BY THE BUILDING PERMIT AUTHORITIES.
- EXAMPLES OF NON STRUCTURAL ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO:
 - ARCHITECTURAL COMPONENTS SUCH AS GUARDRAILS, HANDRAILS, FLAG POSTS, CANOPIES, CEILING, MILLWORK, ETC.
 - LANDSCAPE ELEMENTS SUCH AS BENCHES, LIGHT POSTS, PLANTERS, ETC.
 - CLADDING, GLAZING, WINDOW MULLIONS, INTERIOR, AND EXTERIOR STUD WALLS.
 - ARCHITECTURAL PRECAST, PRECAST CLADDING.
 - SKYLIGHTS
 - MECHANICAL AND ELECTRICAL EQUIPMENT, COMPONENTS AND THEIR ATTACHMENT DETAILS.
 - WINDOW WASHING EQUIPMENT AND ITS ATTACHMENTS
 - ESCALATORS, ELEVATORS AND CONVEYING SYSTEMS
 - BRICK OR BLOCK VENEERS AND THEIR ATTACHMENTS
 - NON-LOAD BEARING MASONRY
 - NON-STRUCTURAL CONCRETE TOPPING

SHORING

- DESIGN SHALL BE BASED ON THE CRITERIA RECOMMENDED IN THE SOILS REPORT AND SHALL BE TO THE APPROVAL OF THE AUTHORITY HAVING JURISDICTION.
- WHERE REQUIRED, SHORING CONTRACTOR TO OBTAIN ALL NECESSARY APPROVALS FOR INSTALLATION OF THE BACK ANCHORS. CONTRACTOR SHALL ESTABLISH THE LOCATION AND EXTENT TO UNDERGROUND UTILITY LINES WHERE INTERFERENCE WITH EXCAVATION/SHORING OPERATIONS ARE POSSIBLE TO OCCUR.
- EXAMINE SITE PLAN FOR EXISTING GRADE ELEVATIONS. CONTRACTOR TO DETERMINE EXTENT OF SHORING REQUIRED, AND SURCHARGE REQUIREMENTS FROM SITE CONDITIONS. DESIGN FOR A MINIMUM OF 10.0 kPa SURCHARGE.
- SOLDER PILE LOCATIONS TO BE APPROVED BY THE STRUCTURAL ENGINEER FOR MINIMUM INTERFERENCE TO COLUMNS, WALLS AND REINFORCEMENT. MAKE PROVISIONS IN ALL EMBEDDED PLATES TO ALLOW THE CONTINUITY OF WALL REINFORCING.

CONCRETE FOUNDATIONS

- CONCRETE DESIGN IS BASED ON THE FOUNDATIONS INVESTIGATION SOILS REPORT PREPARED BY GEOTECHNICAL ENGINEER. REFER TO THE REPORT FOR ANY PARTICULARS AS TO SOIL CONDITIONS AND FOUNDATION RECOMMENDATIONS.
- ENSURE THAT THE REQUIREMENTS OUTLINED IN THIS REPORT ARE READ AND UNDERSTOOD PRIOR TO COMMENCING WITH FOUNDATION WORK.
- PRIOR TO PLACING CONCRETE FOR FOUNDATIONS, BEARING STRATA SHALL BE INSPECTED BY A GEOTECHNICAL CONSULTANT TO CONFIRM BEARING STRATA. SCHEINHAJE POPEK & ASSOCIATES LTD. IS NOT RESPONSIBLE FOR CONFIRMING FOUNDATION CAPACITIES OF SOIL.
- UNLESS OTHERWISE SHOWN, CENTRE FOUNDATIONS UNDER COLUMNS AND WALLS.
- THE ALL DOWELS AND ANCHOR BOLTS IN PLACE BEFORE POURING CONCRETE. USE TEMPLATES TO ENSURE CORRECT PLACEMENT.
- ALL BACKFILL MATERIALS AND BACKFILL INSTALLATION SHALL BE REVIEWED BY A GEOTECHNICAL ENGINEER TO ENSURE COMPLIANCE TO THE RECOMMENDATIONS AS NOTED IN THE GEOTECHNICAL REPORT.
- SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DAMP PROOFING OR WATER STOP REQUIREMENTS.
- FOR GROUND ELEVATIONS AND DRAINAGE SLOPES, SEE ARCHITECTURAL DRAWINGS.

CONCRETE

- CONCRETE TO CONFORM TO CSA-A23.1.
- USE TYPE GU (GENERAL USE) PORTLAND CEMENT FOR CONCRETE, EXCEPT WHERE IN CONTACT WITH SOIL. USE TYPE HS (HIGH SULPHUR) RESISTANT CEMENT.
- CONCRETE TO MEET THE FOLLOWING REQUIREMENTS:

CONCRETE SCHEDULE										
EXPOSURE CLASS	ELEMENT	CEMENT TYPE	MIN. STRENGTH	SLUMP	MAX. AGG. SIZE	W/C RATIO	AIR ENTRAINMENT			
S-2	PILES, FOOTINGS, PILE CAPS, PIERS, FOUNDATION WALLS, RETAINING WALLS & GRADE BEAMS	HS	32 MPa @ 28 DAYS	3" (80mm)	34" (86mm)	0.45	4% - 7%			
N	INTERIOR COLUMN, INTERIOR WALLS, STRUCTURAL SLABS	GU	30 MPa @ 28 DAYS	2 1/2" (64mm)	34" (86mm)	0.50	NOT REQUIRED			
N	SLAB ON GRADE	GU	25 MPa @ 28 DAYS	3" (76mm)	34" (86mm)	0.55	NOT REQUIRED			
F-1	STOOPS (STRUCTURAL & ON GRADE)	GU	30 MPa @ 28 DAYS	3" (76mm)	34" (86mm)	0.50	5% - 8%			
C-1	PARKING SLABS, PARKING RAMPS & CONCRETE APRONS	GU	35 MPa @ 28 DAYS	2 1/2" (64mm)	34" (86mm)	0.40	5% - 8%			
C-1	SIDEWALKS, CURBS & GUTTERS, SPLASH PAD, SWAMP PITS	GU	35 MPa @ 28 DAYS	3" (76mm)	34" (86mm)	0.40	5% - 8%			
N	INTERIOR BRACING FOR ELECT. DUCT BANKS & CONDUITS & MECH. DUCTS	GU	30 MPa @ 28 DAYS	2 1/2" (64mm)	34" (86mm)	0.50	NOT REQUIRED			
S-2	UNDERGROUND ENCASEMENT FOR ELECT. DUCT BANKS & CONDUITS & MECH. DUCTS	HS	32 MPa @ 56 DAYS	3" (76mm)	34" (86mm)	0.50	4% - 7%			
N	CONCRETE TOPPING OF INTERIOR FLOOR DECKS	GU	25 MPa @ 28 DAYS	3" (76mm)	38" (96mm)	0.55	NOT REQUIRED			

- FLY ASH CONTENT SHALL NOT EXCEED 22% OF TOTAL CEMENTITIOUS MATERIALS.
- ADMIXTURES CONTAINING CALCIUM CHLORIDE ARE NOT PERMITTED.
- SUPERPLASTICIZING ADMIXTURE IS PERMITTED TO ALLOW PUMPING OR IMPROVE SURFACE FINISHING OF CONCRETE.
- FOR FLOOR SLABS, DESIGN THE CONCRETE MIXTURE WITH AGGREGATE GRADING AND WATER TO CEMENTING MATERIALS RATIO THAT MINIMIZE SHRINKAGE.
- REJECT ALL CONCRETE WHEN TIME BETWEEN BATCHING AND PLACING EXCEEDS 2 HOURS.
- DO NOT ADD WATER TO THE CONCRETE ON SITE UNLESS AUTHORIZED BY THE CONCRETE SUPPLIER.
- PROTECT CONCRETE FROM ADVERSE WEATHER CONDITIONS IN ACCORDANCE WITH CSA-A23.1.
- FOR TYPE HS & MS CONCRETE PROVIDE MINIMUM 20 MPa @ 28 DAYS.

CAST-IN-PLACE CONCRETE

- CONCRETE MATERIAL, QUALITY, MIXING, PLACING, FORMWORK AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-A23.1-04.
- TO ENSURE THAT THE REQUIRED CONCRETE STRENGTHS ARE BEING ACHIEVED, CONCRETE TESTS SHALL BE PERFORMED BY A RECOGNIZED TESTING LABORATORY IN ACCORDANCE WITH CSA-A23.2-04.
- SUBMIT PROPOSED MIX DESIGN TO BE REVIEWED BY AN AGENCY APPROVED BY AND RESPONSIBLE TO THE SUB-CONSULTANT AND PAID FOR BY THE OWNER, PRIOR TO COMMENCING WORK.
- REINFORCEMENT SHALL BE CHAIRED OFF THE SUB GRADE PRIOR TO PLACING CONCRETE.
- SLAB POURS SHALL NOT EXCEED 45'-0" (14m).
- SEAL ALL JOINTS AND LAPS.
- DUE TO EXPANDING CLAY SUBSOIL, HEAVING OF THE CLAY SUBSOIL MAY OCCUR, WITH INCREASES WITH THE SOIL MOISTURE CONTENT, WHICH WILL RESULT IN CRACKING OF THE FLOOR SLAB. IT IS IMPERATIVE THAT THE SUBSOIL MOISTURE CONTENT REMAINS STABLE IN SOILS OF THIS NATURE. A STRUCTURAL SLAB IS RECOMMENDED TO AVOID FLOOR CRACKING, SETTLEMENT AND HEAVING.
- IT IS THE OPINION OF SCHEINHAJE POPEK & ASSOCIATES LTD. THAT GRADE SUPPORTED SLABS SHOULD NOT BE PLACED ON CLAY MATERIAL OR AREAS CONTAINING PROBLEM SOILS OR FROST. A STRUCTURALLY SUPPORTED SLAB IS STRONGLY RECOMMENDED FOR THESE CONDITIONS.
- CONCRETE WORK TO BE WITHIN THE TOLERANCES LISTED BELOW:
 - VARIATION OF THE LINEAR BUILDING LINES LESS THAN 3/16" (5mm)
 - VARIATION OF THE GROSS SECTIONS OF THICKNESS OF SLABS ± 1/4" (6mm)
 - VARIATION FROM LEVEL OR FROM GRADES INDICATED FOR SURFACES OF SLAB SHALL NOT EXCEED 3/16" (5mm) UNDER STRAIGHT EDGE IMMEDIATELY AFTER TROWELING
- LAYOUT CONSTRUCTION JOINTS PRIOR TO PLACEMENT OF CONCRETE.
- PROVIDE ADEQUATE COLD WEATHER PROTECTION WHEN PLACING CONCRETE IN INCLEMENT WEATHER CONDITIONS.

CONCRETE FORMWORK

- CONCRETE FORMWORK SHALL CONFORM WITH:
 - THE LATEST PROVINCIAL BUILDING CODE
 - CAN/CSA-209.1-1975 (R2003)
- THE DESIGN OF CONCRETE FORMWORK AND ADEQUATE SHORING SYSTEMS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL FORMWORK SHALL REMAIN IN PLACE UNTIL CONCRETE HAS GAINED SUFFICIENT STRENGTH TO PREVENT DAMAGE TO THE CONCRETE, DANGER TO WORKERS, AND EXCESSIVE CREEP DEFLECTION. IN THE CASE OF A STRUCTURAL SLAB AND BEAM, THE FORMWORK SHALL REMAIN IN PLACE FOR A MINIMUM OF 14 DAYS. IF THE SLAB IS RESHORED, THE FORMWORK MAY BE REMOVED AFTER A MINIMUM OF 4 DAYS. RESHORING SHALL PROCEED IN UNISON WITH STRIPPING. UNSUPPORTED AREAS SHALL NOT EXCEED 20 in. (507) RESHORING SHALL BE DESIGNED AND SEALED BY THE FORMWORK SUPPLIER'S PROFESSIONAL ENGINEER. UNSUPPORTED SLABS SHALL NOT BE LOADED WITH LIVE LOADS OR CONSTRUCTION LOADS FOR A MINIMUM OF 28 DAYS.
- CONSTRUCT FORMWORK TO MAINTAIN THE FOLLOWING MAXIMUM TOLERANCES U.N.O. ON THE DRAWINGS:
 - DEVIATION FROM HORIZONTAL AND VERTICAL LINES 3/16" (15mm) IN 66'-0" (20m).
 - DEVIATION OF BUILDING DIMENSIONS NOT MORE THAN 3/16" (5mm)
 - DEVIATION OF CROSS SECTIONAL DIMENSIONS OF COLUMNS OR BEAMS ± 1/8" (3.18mm)
- REFER TO ARCHITECTURAL DRAWINGS FOR CHAMFERS ON CORNERS OF COLUMNS, BEAMS AND WALLS. USE 7/8"x7/8" (20x20) FORMED CHAMFERS ON EXPOSED CORNERS UNLESS CHAMFERS OF OTHER SIZES ARE SHOWN ON DRAWINGS. REFER ALSO TO SPECIFICATION SECTION 03110.

REINFORCED CONCRETE WORK

- SUBMIT SHOP DRAWINGS FOR ALL REINFORCING STEEL.
- REINFORCING STEEL TO BE BILLET STEEL CONFORMING TO CAN/CSA G30.18M92, GRADE 400. USE 400W WHERE WELDING IS NOTED.
- BENDING, CUTTING AND PLACING OF REINFORCING STEEL SHALL CONFORM TO CAN/CSA-A23.4 AND CAN/CSA-A23.3.
- WELDING SHALL CONFORM TO CSA-W186-M1990 (R2002).
- REINFORCE SLABS ON GRADE WITH WWF 6"x6" W2.9/2.9 (152x152MM) W18.7/18.7 U.N.O. UNLESS OTHER REINFORCING IS SHOWN.
- WIRE MESH TO CONFORM TO CSA-G30.5-1983 (R1991).
- ALL WELDED WIRE MESH SHALL BE SUPPLIED IN FLAT SHEETS AND CHAIRED IN PLACE TO THE REQUIRED COVERS AS SPECIFIED.
- REINFORCED CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA-A23.1. CLEAN REINFORCING TO CAN/CSA-A23.1-94.
- PROVIDE MATCHING CORNER BARS FOR ALL HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS.
- ALL REINFORCING STEEL SHALL BE CHAIRED AND SECURELY TIED IN PLACE USING STANDARD TIES AND CHAIRS.
- EPOXY COATED REINFORCING SHALL BE MANUFACTURED, FABRICATED, STORED, HANDLED AND INSTALLED IN STRICT ACCORDANCE WITH THE CSA STANDARDS AND INDUSTRY PRACTICE.
- MINIMUM REINFORCING BAR EMBEDMENT AND LAP SPLICE LENGTH TO CONFORM TO THE APPLICABLE REQUIREMENT LISTED BELOW (UNLESS OTHERWISE NOTED ON DRAWINGS):

BAR EMBEDMENT AND LAP SPLICE TABLE				
BAR SIZE	TENSION		COMPRESSION	
	EMBEDMENT LENGTH	LAP SPLICE LENGTH	EMBEDMENT LENGTH	LAP SPLICE LENGTH
10M	16' (4900mm)	20' (6100mm)	8' (2400mm)	12' (3600mm)
15M	24' (7300mm)	30' (9100mm)	12' (3600mm)	18' (5400mm)
20M	30' (9100mm)	40' (12100mm)	16' (4900mm)	24' (7300mm)
25M	48' (14600mm)	62' (18900mm)	20' (6100mm)	30' (9100mm)
30M	58' (17700mm)	74' (22600mm)	24' (7300mm)	38' (9100mm)
35M	66' (19900mm)	86' (26100mm)	28' (8500mm)	42' (12600mm)

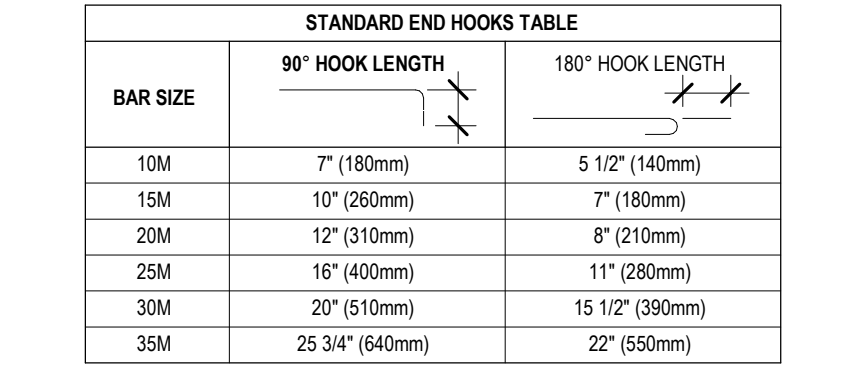
- TABLE NOTES:**
- BASED ON CSA-A23.3-94
 - THIS SCHEDULE IS FOR CLASS 'B' SPLICE U.N.O.
 - APPLIES TO REINFORCING SPLICES NOT OTHERWISE DETAILED
 - NORMAL DENSITY CONCRETE OF STRENGTH AT LEAST 25 MPa
 - ENCLOSED BY MINIMUM STRIPS OR TIES
 - CLEAR COVER AT LEAST 1.0 x BAR DIAMETER
 - CLEAR SPACING AT LEAST 1.4 x BAR DIAMETER
 - INCREASE LENGTHS TO 1.31 x LIST LENGTH FOR COATED REINFORCING

- MINIMUM SLAB-ON-GRADE REINFORCEMENT TO CONFORM TO THE APPLICABLE REQUIREMENT LISTED BELOW (UNLESS OTHERWISE NOTED ON DRAWINGS):

MINIMUM SLAB REINFORCING TABLE		
SLAB THICKNESS	INTERIOR SLAB (As = 0.002xAg)	EXTERIOR SLAB (As = 0.0025xAg)
MAX. 4" (100mm)	10M @ 18" (450mm)	10M @ 16" (400mm)
4" - 5" (100mm - 125mm)	10M @ 16" (400mm)	10M @ 13" (325mm)
5" - 6" (125mm - 150mm)	10M @ 13" (325mm)	10M @ 10 1/2" (265mm)
6" - 7" (150mm - 175mm)	10M @ 11 1/4" (285mm)	10M @ 9" (225mm)
7" - 8" (175mm - 200mm)	10M @ 10" (250mm)	10M @ 16" (400mm) TOP & BOTTOM
8" - 10" (200mm - 250mm)	10M @ 16" (400mm) TOP & BOTTOM	10M @ 13" (325mm) TOP & BOTTOM
10" - 12" (250mm - 300mm)	10M @ 12" (325mm) TOP & BOTTOM	10M @ 10 1/2" (265mm) TOP & BOTTOM

- TABLE NOTES:**
- PROVIDE MINIMUM REINFORCING EACH WAY IN SLABS AND TOPPING WITHOUT SPECIFIED REINFORCING.
 - PROVIDE MINIMUM REINFORCING PERPENDICULAR TO PRINCIPAL REINFORCEMENT IN ONE-WAY SLABS. PLACE ALTERNATING TOP AND BOTTOM WHERE TOP REINFORCING IS SPECIFIED.

- MINIMUM END HOOKS FOR 400 GRADE REINFORCING TO CONFORM TO THE APPLICABLE REQUIREMENT LISTED BELOW (UNLESS OTHERWISE NOTED ON DRAWINGS):



- CONCRETE COVER TO REINFORCING STEEL SHALL CONFORM TO THE APPLICABLE REQUIREMENT LISTED BELOW THAT RESULTS IN THE GREAT AMOUNT OF COVER:

- CONCRETE CAST AGAINST EARTH
 - CONCRETE CAST IN FORMS BUT EXPOSED TO EARTH OR WEATHER: 3" (75mm)
 - SLAB EXPOSED TO DEICING CHEMICALS
 - TOP BARS: 2 3/8" (60mm)
 - BOTTOM BARS: 1 1/2" (40mm)
 - OTHER SLABS
 - TOP BARS: 1 1/2" (40mm)
 - BOTTOM BARS: 1 1/2" (40mm)
 - BEAMS AND GIRDERS (TO STIRRUPS): 1 1/2" (40mm)
 - COLUMNS AND PILE CAPS (TO TIES): 1 1/2" (40mm)
 - WALLS: 1 1/2" (40mm)
- CONCRETE NOT EXPOSED TO WEATHER OR NOT IN CONTACT WITH EARTH:
 - SLAB BOTTOM REINFORCING (2 HOUR OR LESS FIRE RATING): 1" (25mm)
 - SLAB TOP REINFORCING: 1" (25mm)
 - BEAMS AND GIRDERS (TO STIRRUPS): 1 1/8" (30mm)
 - COLUMNS AND PILE CAPS (TO TIES): 1 1/8" (30mm)
 - WALLS (EXPOSED TO FIRE ON BOTH SIDES): 2" (50mm)
 - OTHER WALLS: 1" (25mm)

- UNLESS NOTED OTHERWISE, PROVIDE DOWELS OF THE SAME SIZE, NUMBER AND SPACING WHERE REINFORCING IS SPLICED.
- SUBMIT TO THE CONSULTANT FOR REVIEW THE LOCATION OF ALL CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS.
- HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE MADE IN BEAMS UNLESS SHOWN ON THE DRAWINGS.
- SUBMIT TO THE CONSULTANT FOR REVIEW THE LOCATIONS OF ALL SLEEVES AND OPENINGS NOT SHOWN ON THE DRAWINGS. THE CONSULTANT WILL PROVIDE STRUCTURAL DETAILS AS REQUIRED FOR SLEEVES AND OPENINGS.
- SLEEVES SHALL NOT BE PLACED HORIZONTALLY ALONG OR VERTICALLY THROUGH BEAMS UNLESS AUTHORIZED BY THE CONSULTANT.

PREFABRICATED WOOD TRUSSES

- PREFABRICATED WOOD TRUSSES SHALL CONFORM WITH:
 - CAN/CSA-080 SERIES-87, WOOD PRESERVATION
 - CAN/CSA-086-1-94, ENGINEERING DESIGN IN WOOD (LIMIT STATES DESIGN)
 - CAN/CSA-0141-91 (R1999), SOFTWOOD LUMBER
 - CSA-S347-99, METHOD OF TEST FOR EVALUATION OF TRUSS PLATES USED IN LUMBER JOINTS
- ALL ROOF TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH CAN/CSA-086-1 FOR THE LOADS APPLIED, INCLUDING DRIFT, ROOF FINISHES AND THE REQUIREMENTS OF THE LATEST PROVINCIAL BUILDING CODE, PART 4.
- ROOF TRUSSES SHALL BE DESIGNED FOR A MAXIMUM LIVE LOAD DEFLECTION OF L/360.
- WOOD TRUSS FABRICATOR SHALL SUBMIT TRUSS SHOP DRAWINGS:
 - ENGINEERED SEALED SHOP DRAWINGS INCLUDING THE LAYOUT, DESIGN CRITERIA, CONNECTIONS AND DETAILS SHALL BE SUBMITTED PRIOR TO FABRICATION FOR REVIEW BY OWNERS REPRESENTATIVE.
 - INDICATE SPECIES, SIZES AND STRESS GRADES OF LUMBER USED AS TRUSS MEMBERS.
 - SHOW PITCH, SPAN, CAMBER, CONFIGURATION AND SPACING OF TRUSSES.
 - SHOW BEARING DETAILS AND INDICATE THE DESIGN LOAD FOR MEMBERS.
 - INDICATE ARRANGEMENT OF WEBS OR OTHER MEMBERS TO ACCOMMODATE DUCTS AND OTHER SPECIALTIES.
 - SHOW LIFTING POINTS FOR STORAGE, HANDLING, AND ERECTION.
 - SHOW LOCATION OF LATERAL BRACING FOR COMPRESSION MEMBERS.
 - VERIFY ALL DIMENSIONS WITH THE CONTRACTOR PRIOR TO FABRICATION. OBTAIN ALL REQUIRED FIELD MEASUREMENTS WHERE POSSIBLE SO THAT TRUSSES ARE MANUFACTURED IN ACCORDANCE WITH THE STRUCTURE IN PLACE.
- GIRDER TRUSS LOCATIONS THAT ARE SHOWN ON THE BUILDING STRUCTURAL DRAWINGS SHALL NOT BE RELOCATED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
- DESIGN WOOD TRUSSES TO ACCOMMODATE MECHANICAL DUCTING WHEN CAVITY DIMENSIONS ARE SHOWN ON THE BUILDING STRUCTURAL DRAWINGS.
- STORE TRUSSES ON JOB SITE IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. PROVIDE BEARING SUPPORTS AND BRACING, PREVENT BENDING, WARPING AND OVERTURNING OF TRUSSES.
- THE ERECTION CONTRACTOR SHALL BE SUPPLIED WITH DETAILED INSTRUCTIONS FOR THE CARE, STORAGE, HANDLING, AND ERECTION OF THE TRUSSES INCLUDING A LAYOUT PLAN AND DETAILS.
- INSTALL ALL TEMPORARY BRACING TO HOLD TRUSSES PLUMB AND IN A SAFE CONDITION UNTIL PERMANENT BRACING AND DECKING ARE INSTALLED. ALL TEMPORARY BRACING AND GUARDS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- INSTALL ALL PERMANENT BRACING AND BRIDGING INDICATED ON THE SHOP DRAWINGS PRIOR TO APPLICATION OF SIGNIFICANT FLOORLOADS.
- CONTRACTOR SHALL NOT CUT, DRILL, NOTCH, OR MODIFY THE TRUSSES IN ANY WAY EXCEPT IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND THE APPROVAL OF THE OWNERS REPRESENTATIVE.

TRUSS FRAMING

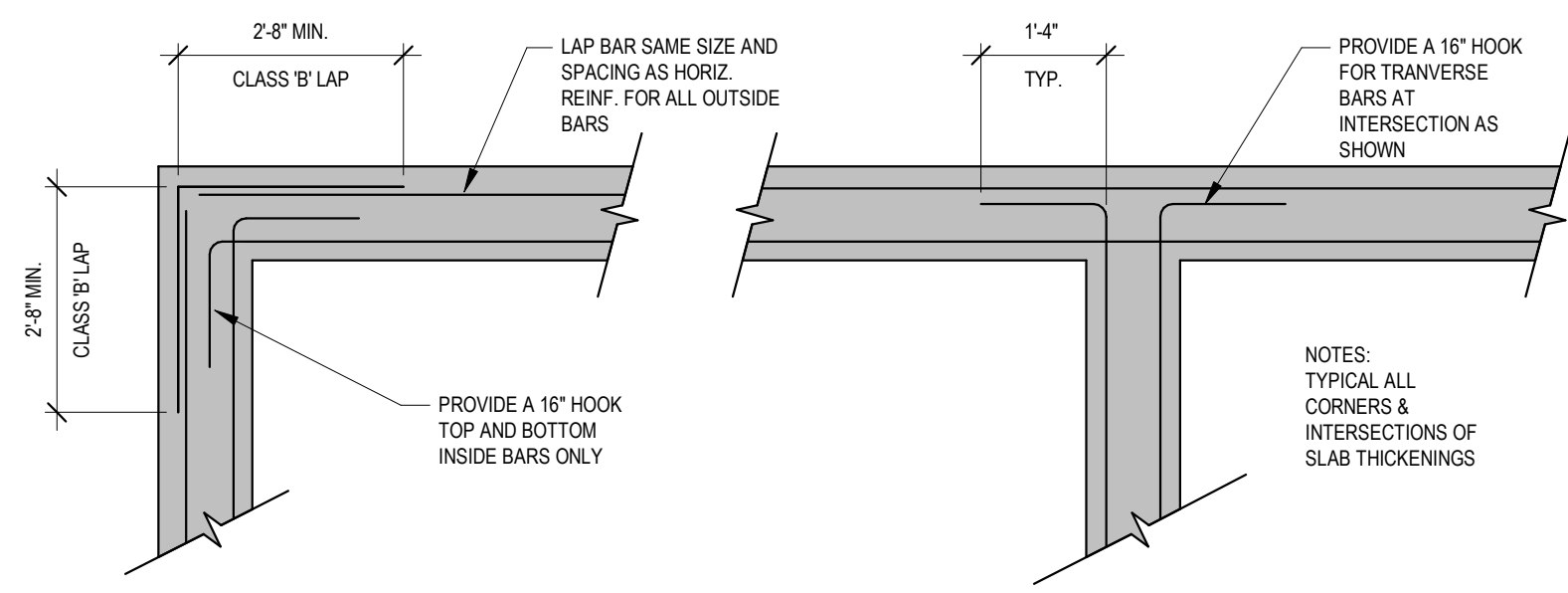
- ALL LUMBER, SHEATHING AND MANUFACTURED WOOD PRODUCTS SHALL MEET OR EXCEED THE APPLICABLE CSA STANDARD FOR THE PRODUCT SUITABLE FOR THE INTENDED FINAL USE AND CONDITIONS PREVALENT DURING CONSTRUCTION. PROTECT ALL MATERIALS FROM THE WEATHER DURING STORAGE AND INSTALLATION.
- ALL WOOD STUDS, LINTELS, JOISTS, POSTS, AND BEAMS TO BE S.P.F. #2 OR BETTER.
- ALL FRAMING LUMBER SHALL BE KILN DRIED TO A MOISTURE CONTENT OF LESS THAN 19% AT THE TIME OF MANUFACTURING.
- ALL WOOD FRAMING TO CONFORM TO PART 9 OF THE PROVINCIAL BUILDING CODE UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- ALL BUILT UP WOOD BEAMS SHALL BE SUPPORTED BY A POST CONSISTING OF A MINIMUM OF 1 (ONE) STUD FOR EACH PLY OF BEAM WHEN INCORPORATED IN A WALL. ALL FREE STANDING BUILT UP POSTS SHALL BE A MINIMUM OF 3 (THREE) LAMINATIONS. SEE DRAWINGS FOR EXCEPTIONS TO THIS REQUIREMENT.
- ALL BUILT UP LAMINATED VENEER TYPE BEAMS SHALL BE SUPPORTED BY A POST CONSISTING OF A MINIMUM OF 1 (ONE) MORE STUD THAN THE NUMBER OF PLYS OF BEAM WHEN INCORPORATED IN A WALL (EG. 3 STUDS FOR A 2 PLY BEAM). ALL FREE STANDING BUILT UP POSTS SHALL BE A MINIMUM OF 3 (THREE) LAMINATIONS. SEE DRAWINGS FOR EXCEPTIONS TO THIS REQUIREMENT.
- ALL BUILT UP WOOD LINTELS FOR WINDOWS AND DOORS SHALL BE SUPPORTED BY A MINIMUM OF 1 (ONE) STUD PLUS 2 (TWO) CRIPPLES (JACKS) ON EACH END, SECURELY TIED INTO THE WALL. INTERMEDIATE POSTS FOR CONTRIBUTE LINTELS SHALL MEET THE BEAM REQUIREMENTS ABOVE. SEE DRAWINGS FOR EXCEPTIONS TO THIS REQUIREMENT.
- ALL 2ND STOREY WALLS AND SPLIT LEVEL WALLS WITHOUT INTERMEDIATE FLOORS SHALL BE BALLOON FRAMED TO PREVENT HINGING. NO SPLICES UNLESS DETAILED OTHERWISE.
- ALL SUB FLOOR SHEATHING SHALL BE SCREWED AND GLUED TO THE JOISTS WITH A SUITABLE PRODUCT FOR CONSTRUCTION AND THE PREVALENT WEATHER CONDITIONS.
- THE CONTRACTOR SHALL BRING ANY DISCREPANCIES IN DIMENSIONS ETC. TO THE ATTENTION OF THE OWNERS REPRESENTATIVE PRIOR TO COMMENCING WORK.
- ALL TEMPORARY BRACING AND GUARDS SHALL BE THE CONTRACTORS RESPONSIBILITY.
- PROVIDE WOOD BLOCKING ALONG SHEATHING JOINTS (TYPICAL).

TIMBER FRAMING

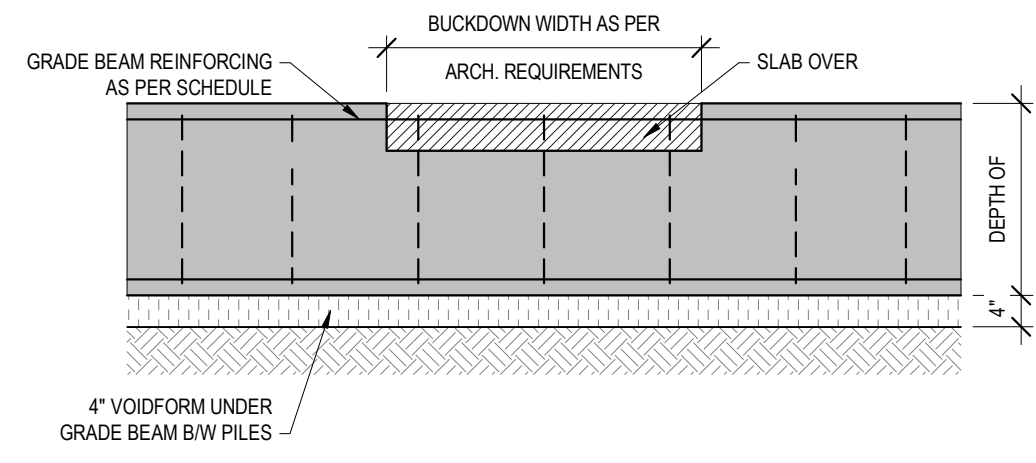
- ALL LUMBER, SHEATHING AND MANUFACTURED WOOD PRODUCTS SHALL MEET OR EXCEED THE APPLICABLE CSA STANDARD FOR THE PRODUCT SUITABLE FOR THE INTENDED FINAL USE AND CONDITIONS PREVALENT DURING CONSTRUCTION. PROTECT ALL MATERIALS FROM THE WEATHER DURING STORAGE AND INSTALLATION.
- ALL WOOD STUDS, LINTELS, JOISTS, POSTS, AND BEAMS TO BE S.P.F. #2 OR BETTER.
- ALL FRAMING LUMBER SHALL BE KILN DRIED TO A MOISTURE CONTENT OF LESS THAN 19% AT THE TIME OF MANUFACTURING.
- ALL WOOD FRAMING TO CONFORM TO PART 9 OF THE PROVINCIAL BUILDING CODE UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- ALL BUILT UP WOOD BEAMS SHALL BE SUPPORTED BY A POST CONSISTING OF A MINIMUM OF 1 (ONE) STUD FOR EACH PLY OF BEAM WHEN INCORPORATED IN A WALL. ALL FREE STANDING BUILT UP POSTS SHALL BE A MINIMUM OF 3 (THREE) LAMINATIONS. SEE DRAWINGS FOR EXCEPTIONS TO THIS REQUIREMENT.
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- PROVIDE WOOD BLOCKING ALONG SHEATHING JOINTS (TYPICAL).

TIMBER FRAMING

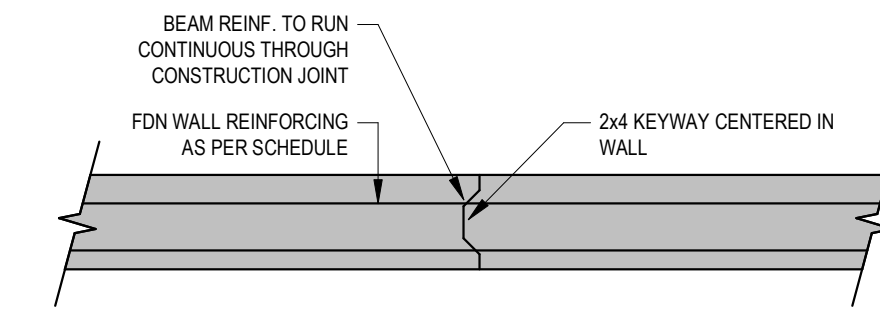
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- ALL WOOD FRAMING TO CONFORM TO PART 9 OF THE PROVINCIAL BUILDING CODE UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- ALL BUILT UP WOOD BEAMS SHALL BE SUPPORTED BY



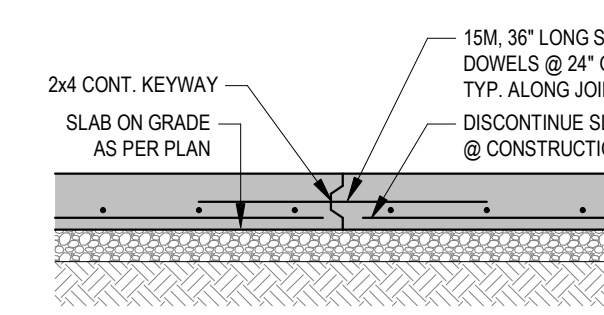
1 TYP. CORNER BAR DETAIL
NOT TO SCALE



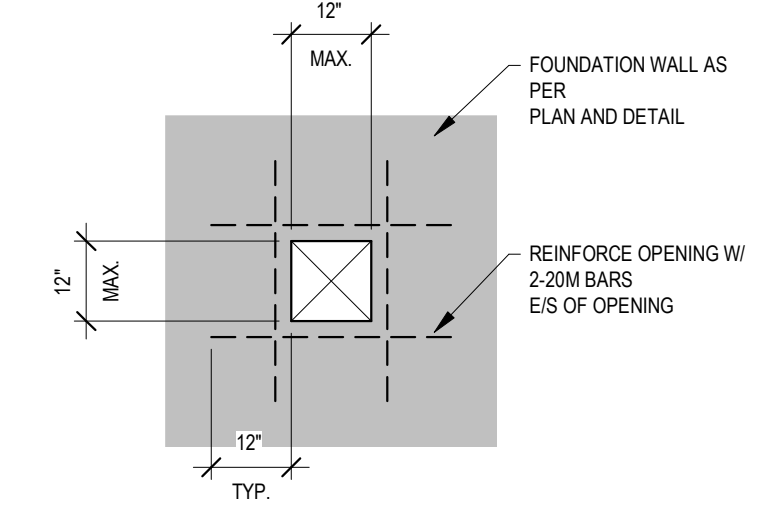
2 TYP. BUCKDOWN DETAIL
NOT TO SCALE



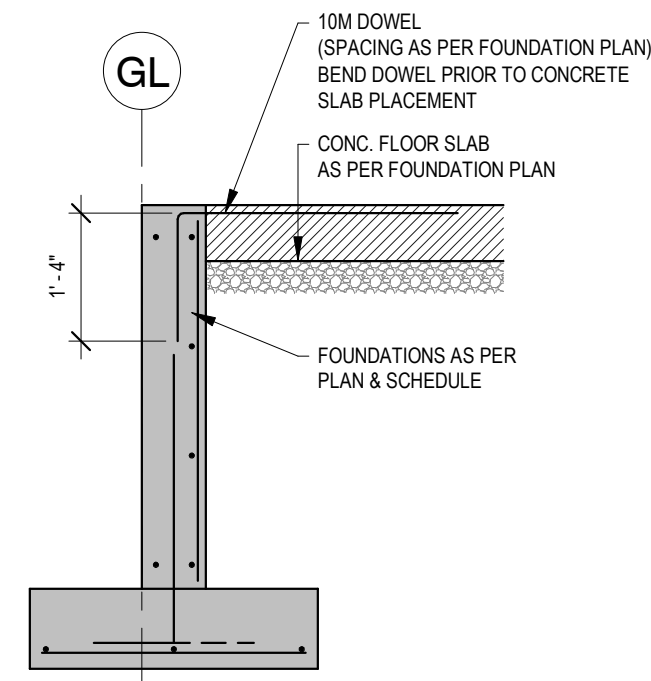
3 TYP. FOUNDATION WALL CONSTRUCTION JOINT
NOT TO SCALE



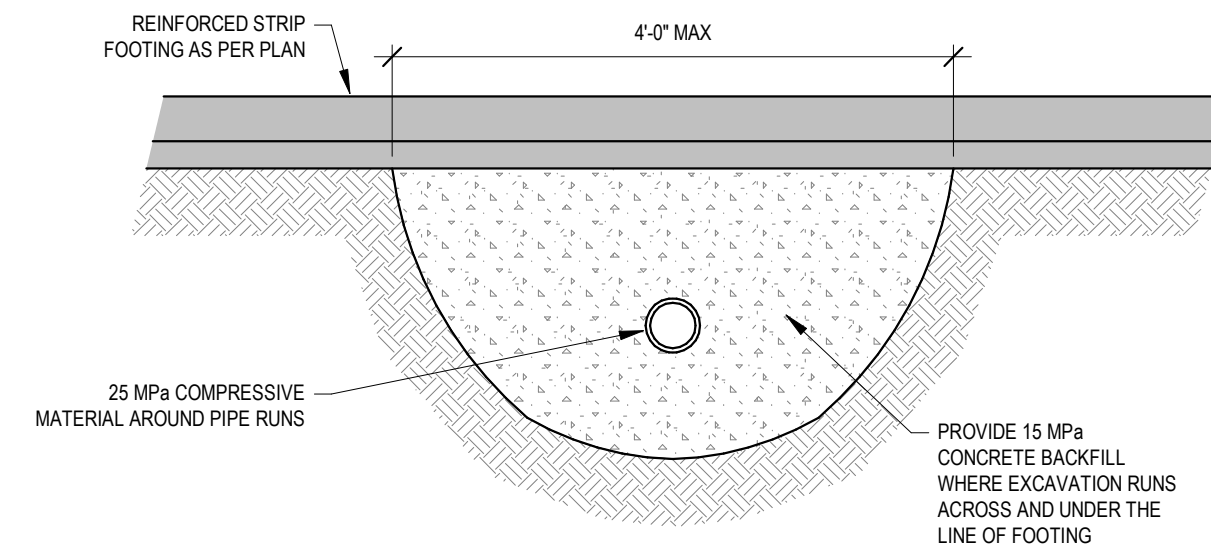
4 TYP. SLAB-ON GRADE CONSTRUCTION JOINT
NOT TO SCALE



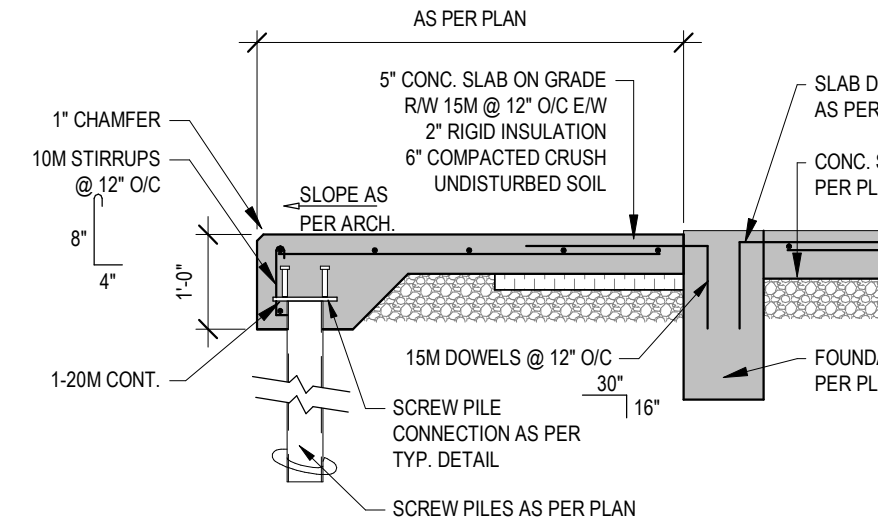
5 TYPICAL MECH. PENETRATION IN FDN. WALL
NOT TO SCALE



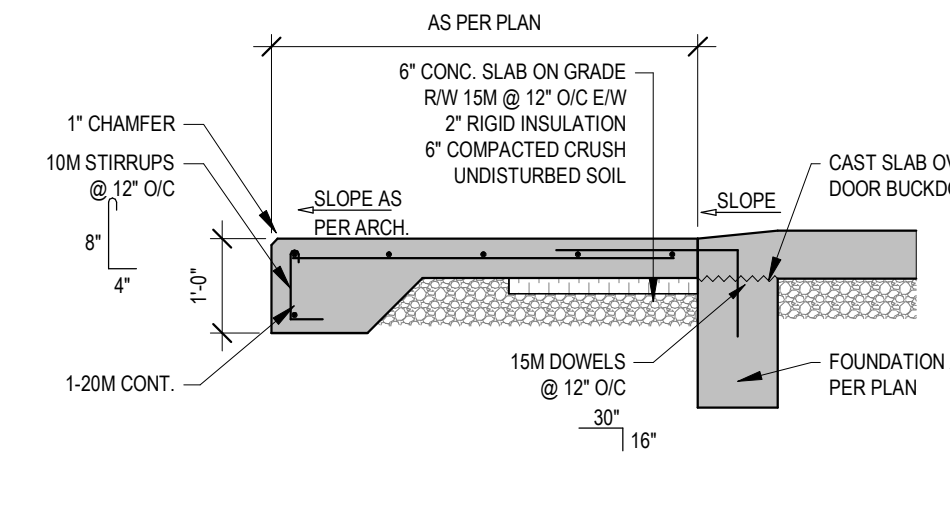
6 TYP. FOUNDATION WALL / INTERIOR SLAB DOWEL DETAIL
NOT TO SCALE



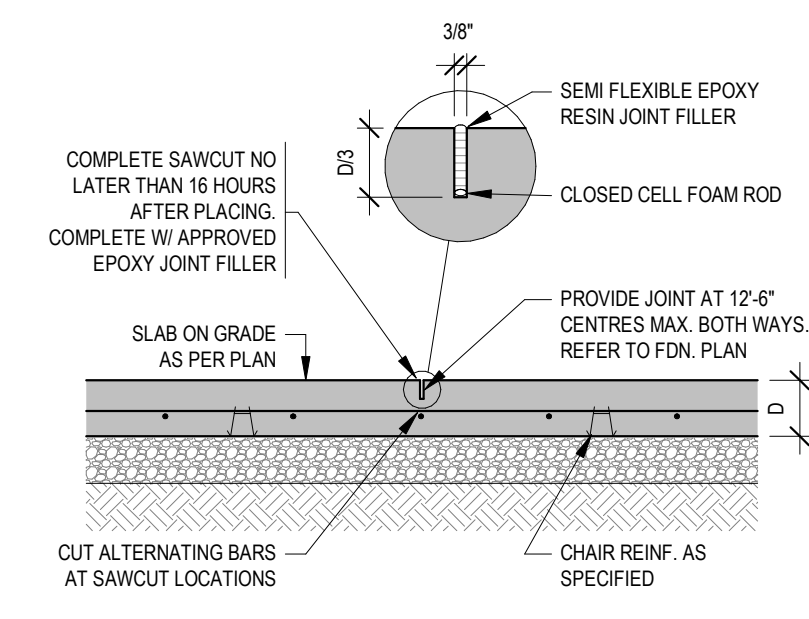
7 TYPICAL BACKFILL DETAIL UNDER CONTINUOUS STRIP FOOTING
NOT TO SCALE



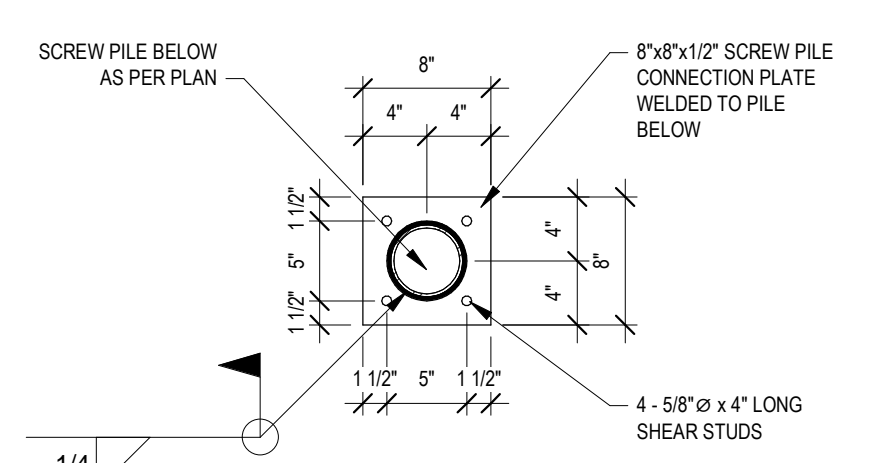
8 TYP. CONCRETE APRON @ PILE
NOT TO SCALE
NOTE:
CONFIRM DIMENSIONS & LOCATIONS OF ALL EXTERIOR FLATWORK WITH ARCHITECTURAL SITE PLAN



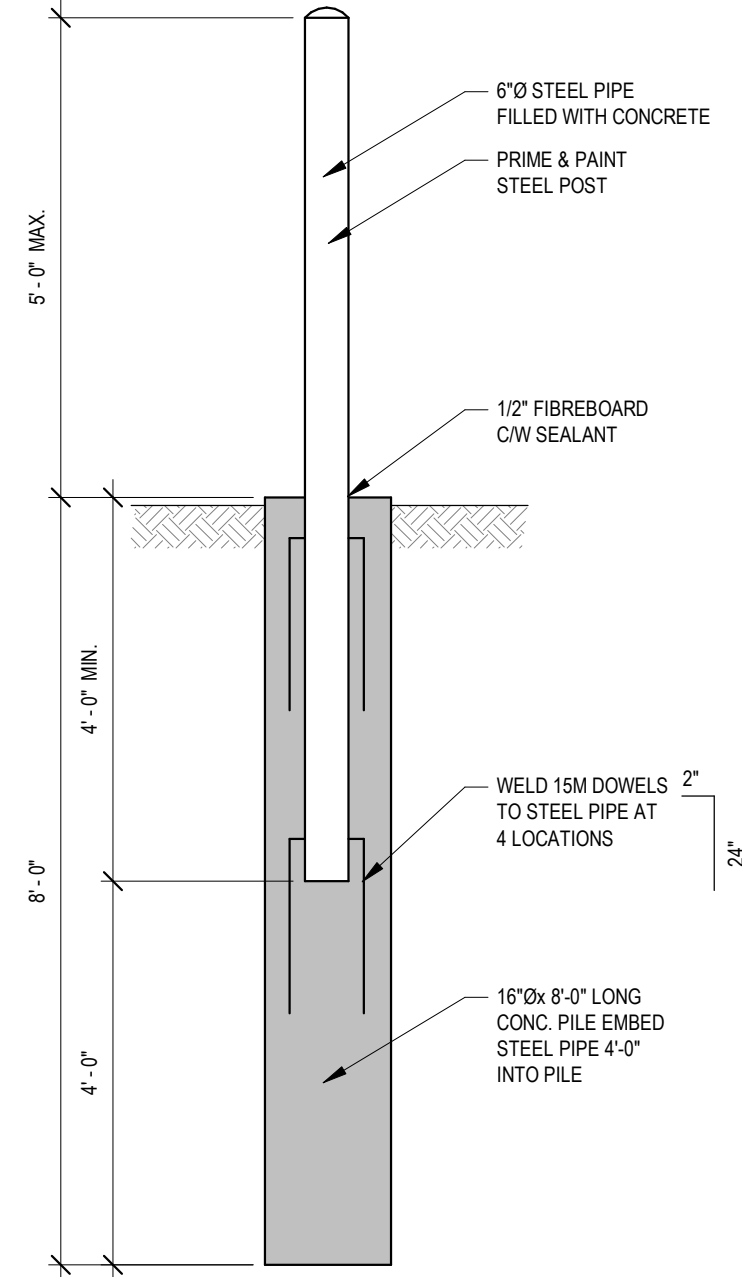
9 TYP. CONCRETE APRON @ OVERHEAD DOOR
NOT TO SCALE
NOTE:
CONFIRM DIMENSIONS & LOCATIONS OF ALL EXTERIOR FLATWORK WITH ARCHITECTURAL SITE PLAN



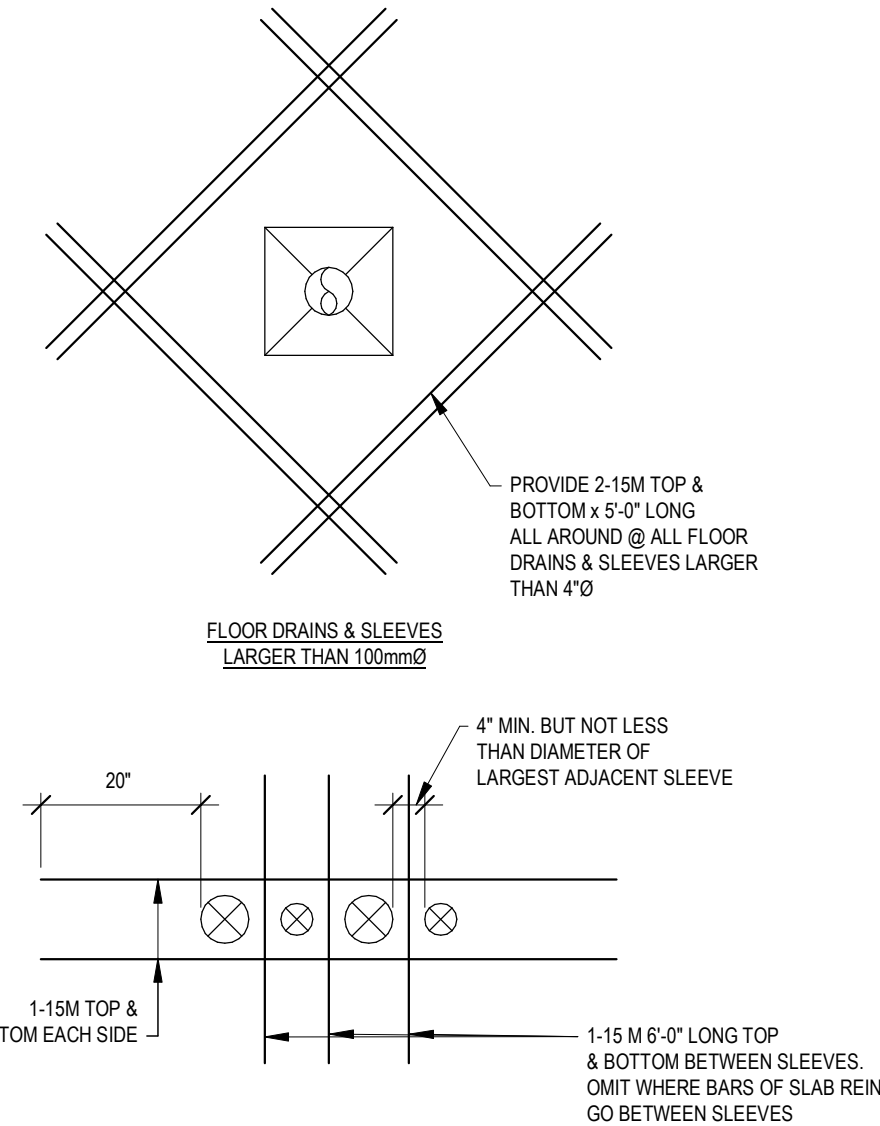
10 TYP. SLAB-ON GRADE CONTROL JOINT
NOT TO SCALE
NOTE:
POUR JOINT FILLER HIGHER THAN CONCRETE AND GRIND LEVEL AFTERWARDS. DO NOT RUN WHEELED EQUIPMENT OVER JOINT UNTIL FILLED. FILL JOINT AS LATE AS POSSIBLE AFTER PLACING CONCRETE TO ALLOW AS MUCH SHRINKAGE TO TAKE PLACE AS POSSIBLE.



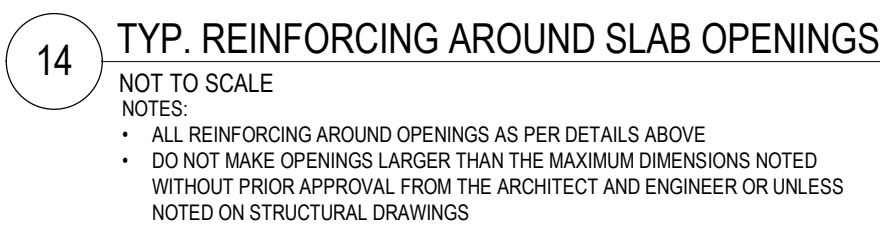
11 SCREW PILE CONNECTION PLATE DETAIL
NOT TO SCALE



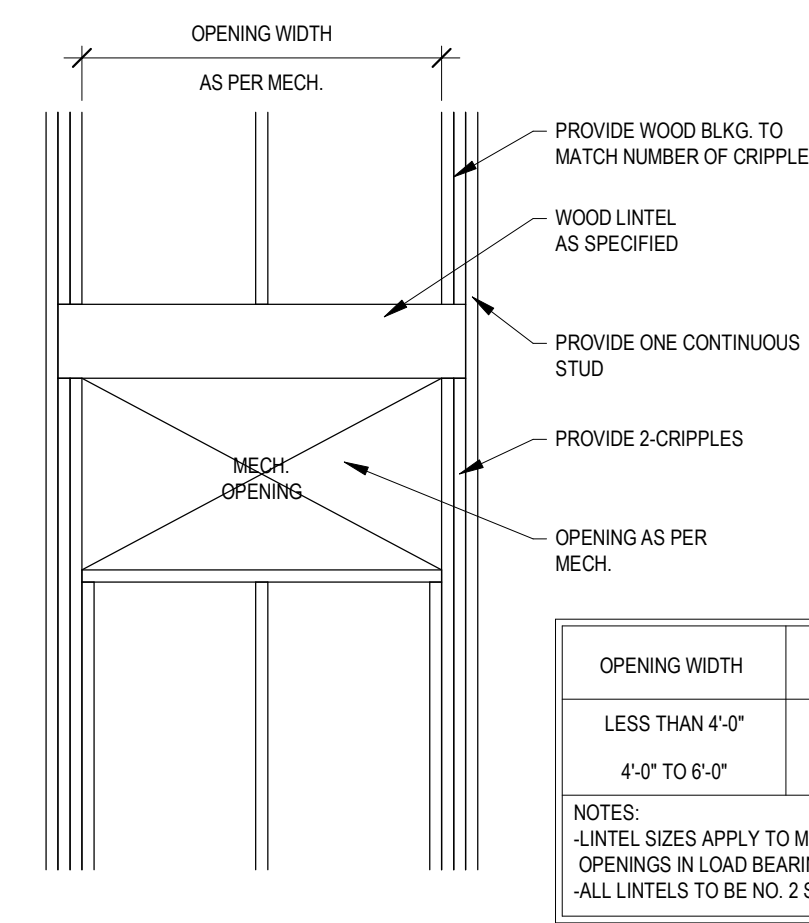
12 TYP. BOLLARD PLAN
NOT TO SCALE
NOTE:
DETAIL MAY BE MIRRORED OR ROTATED. REFER TO FOUNDATION PLAN FOR BOLLARD ORIENTATION AT EACH LOCATION



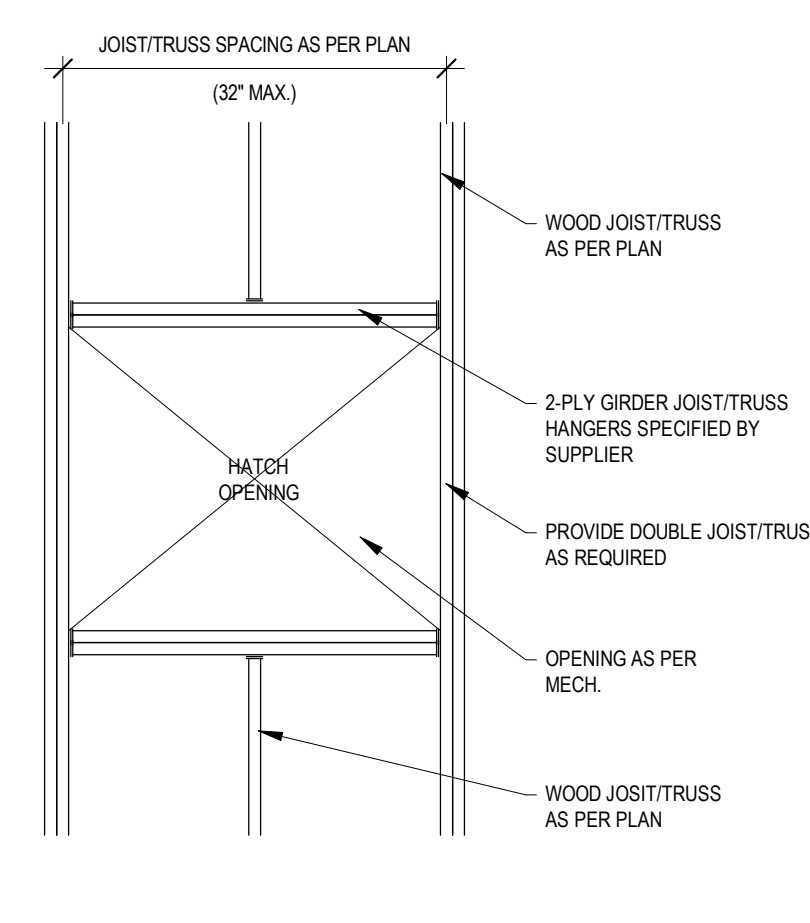
13 TYP. BOLLARD DETAIL
NOT TO SCALE
NOTE:
REFER TO ARCH. SITE PLAN FOR LOCATIONS



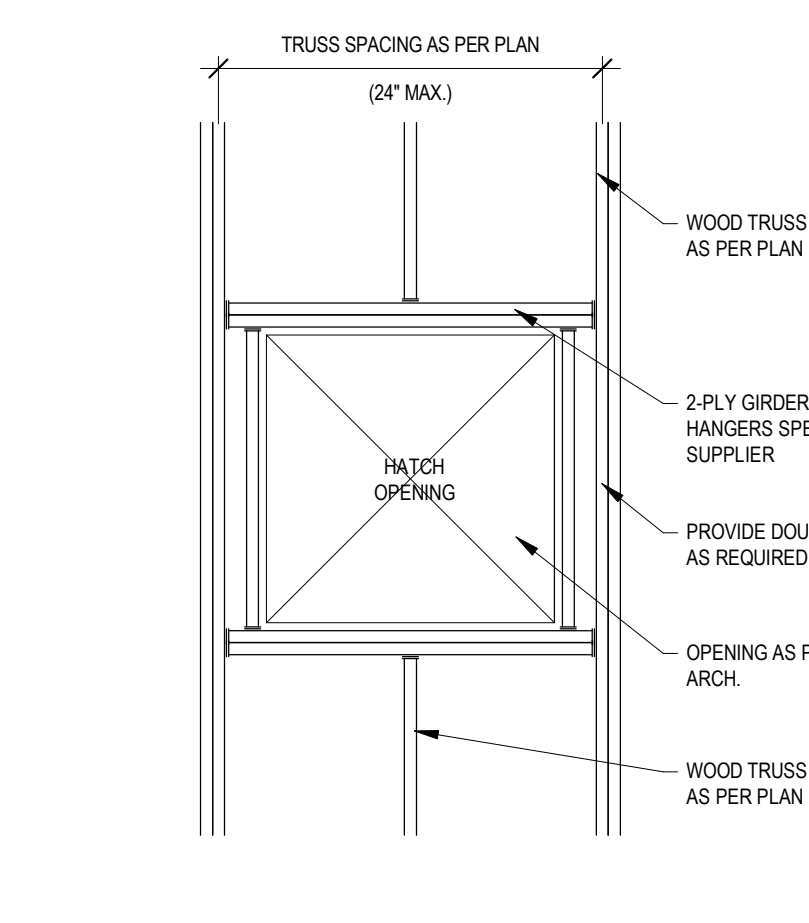
14 TYP. REINFORCING AROUND SLAB OPENINGS
NOT TO SCALE
NOTE:
ALL REINFORCING AROUND OPENINGS AS PER DETAILS ABOVE. DO NOT MAKE OPENINGS LARGER THAN THE MAXIMUM DIMENSIONS NOTED WITHOUT PRIOR APPROVAL FROM THE ARCHITECT AND ENGINEER OR UNLESS NOTED ON STRUCTURAL DRAWINGS



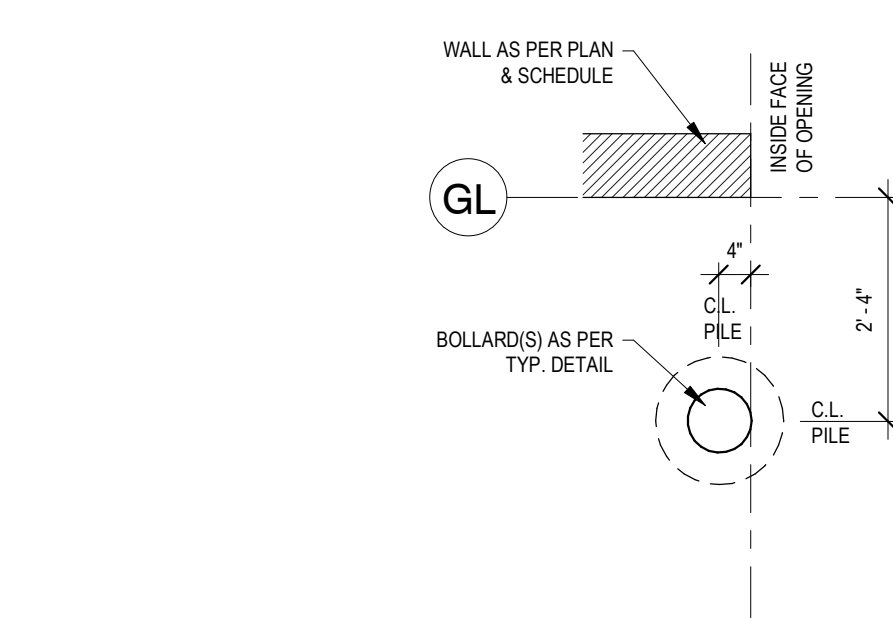
15 TYP. MECH OPENING FRAMING IN STUD WALLS
NOT TO SCALE
NOTE:
REFER TO MECH. FOR SIZE & LOCATION OF OPENINGS.



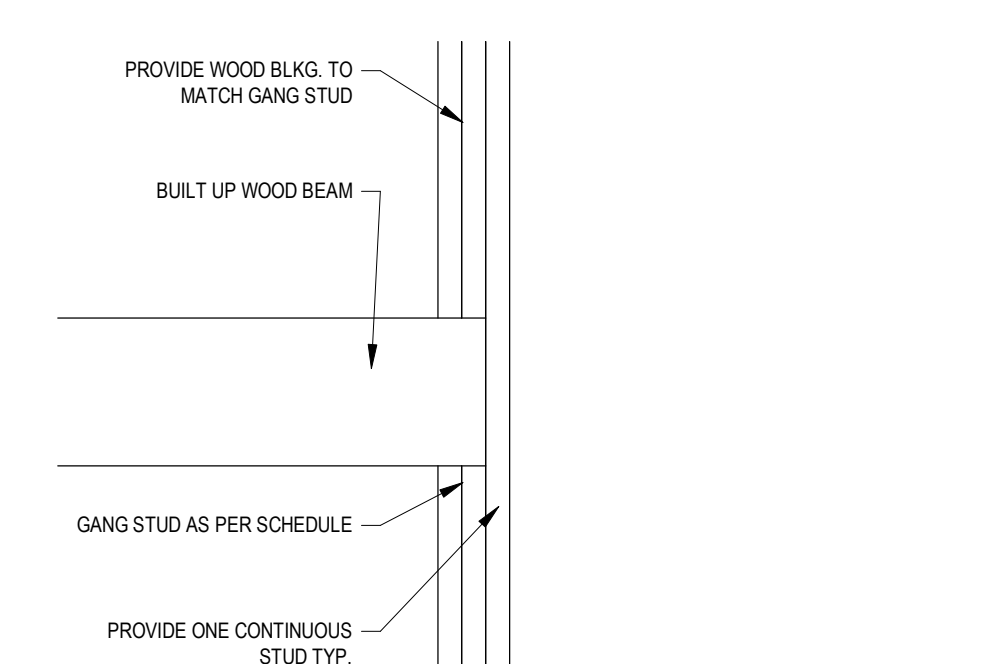
16 TYP. MECH OPENING FRAMING IN WOOD FLOOR
NOT TO SCALE
NOTE:
REFER TO MECH. FOR SIZE & LOCATION OF OPENINGS.



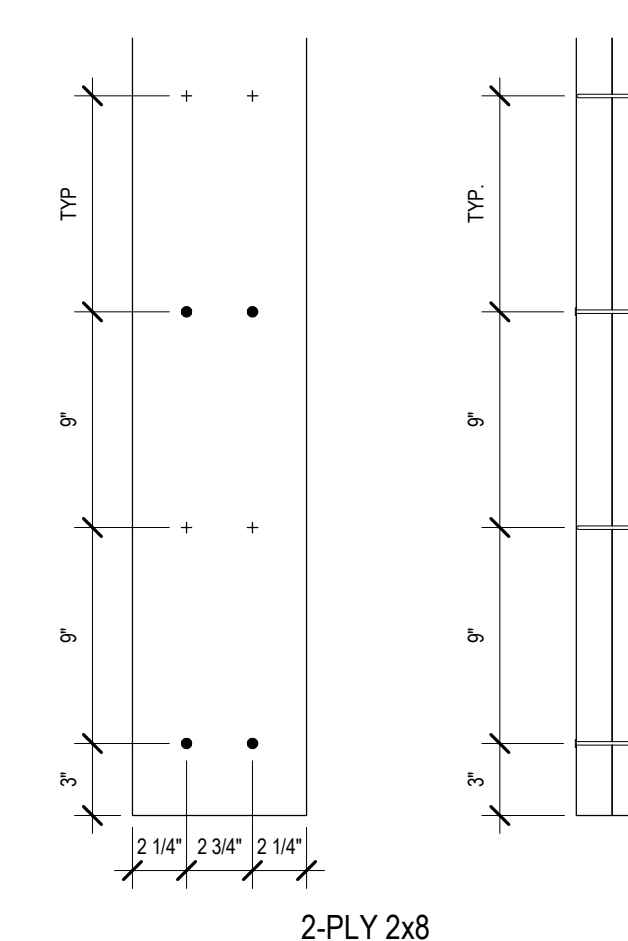
17 TYP. ROOF HATCH OPENING FRAMING IN WOOD ROOF
NOT TO SCALE
NOTE:
REFER TO MECH. FOR SIZE & LOCATION OF OPENINGS.



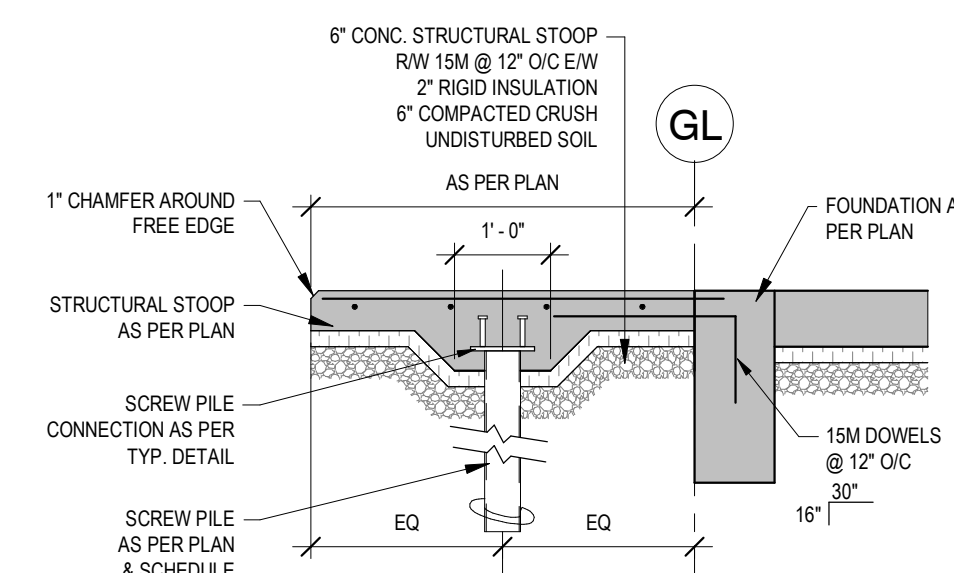
18 TYP. LADDER BLOCKING IN STUD WALL
NOT TO SCALE
NOTE:
REFER TO ARCH FOR LOCATION OF LADDER. CONFIRM WITH LADDER SPECIFICATIONS FOR NUMBER OF BRACKET LOCATIONS



19 TYP. WOOD LINTEL & GANG STUD IN WOOD STUD WALLS
NOT TO SCALE



20 TYP. BUILT UP COLUMN NAILING PATTERN
NOT TO SCALE



21 TYP. STRUCTURAL STOOP @ MAN DOORS
NOT TO SCALE
NOTE:
CONFIRM DIMENSIONS & LOCATIONS OF ALL EXTERIOR FLATWORK WITH ARCHITECTURAL SITE PLAN

NOTES
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REVISION SCHEDULE		
ISSUED FOR:	REVISION	DATE
90% CLIENT REVIEW	C	2020.05.20
TENDER	0	2020.06.02

CLIENT:
CLEARHILLS COUNTY

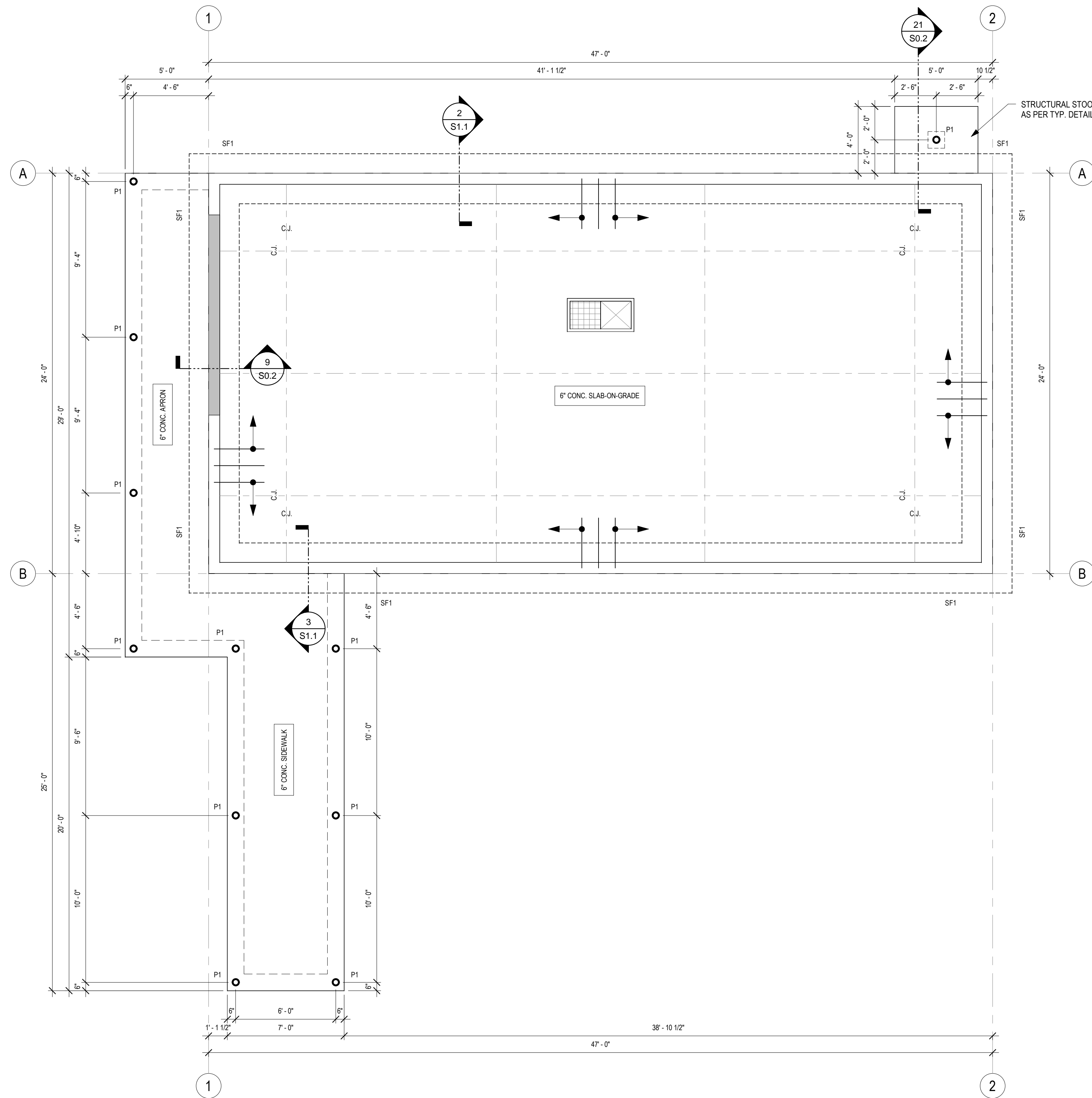
PROJECT:
CLEARHILLS FIREHALL

SITE DESCRIPTION: LOT 84 & 85, BLOCK 1, PLAN 07252595, CLEARDALE, CLEARHILLS COUNTY, AB

DRAWING:
TYPICAL DETAILS

DRAWN BY:	GB	PROF. REVIEW:	BF
TECH. REVIEW:	JW	FINAL REVIEW:	BF
SPA PROJECT NUMBER:	20-048		

DRAWING NUMBER:	S0.2	REVISION:	0
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1 FOUNDATION PLAN
1/4\"/>

SLAB DOWEL NOTES

TYPICAL SLAB DOWEL:
ALL DOWELS TO BE 10M @ 12\"/>

FOUNDATION NOTES

- ELEV. 100'-0\"/>

TYPICAL CONCRETE SLAB CONSTRUCTION

SLAB ON GRADE:
6\"/>

STRIP FOOTING (SFx) SCHEDULE

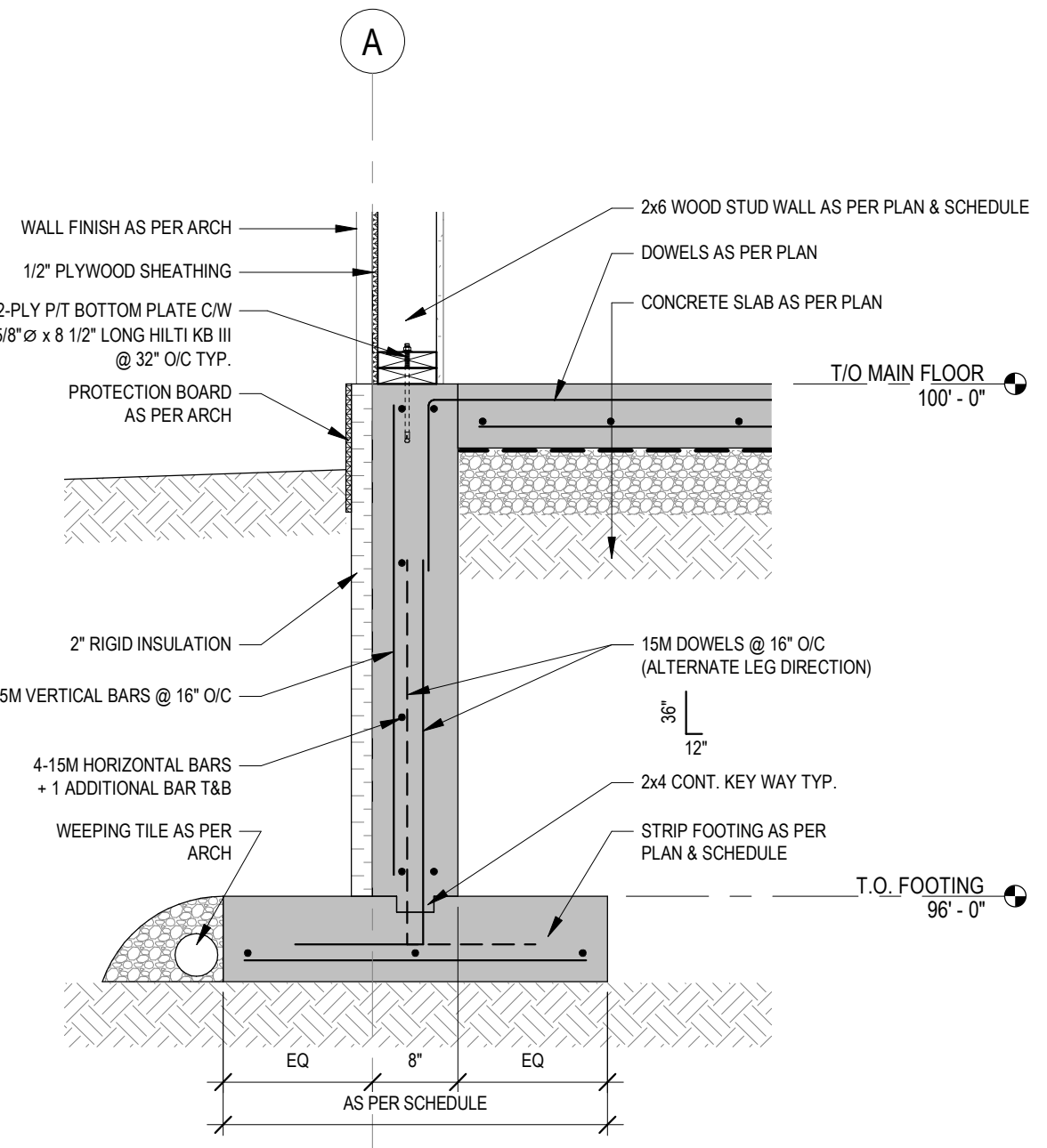
MARK	SIZE	ELEVATION	REINFORCEMENT
SF1	36\"/>		

SCREW PILE (SPx) SCHEDULE

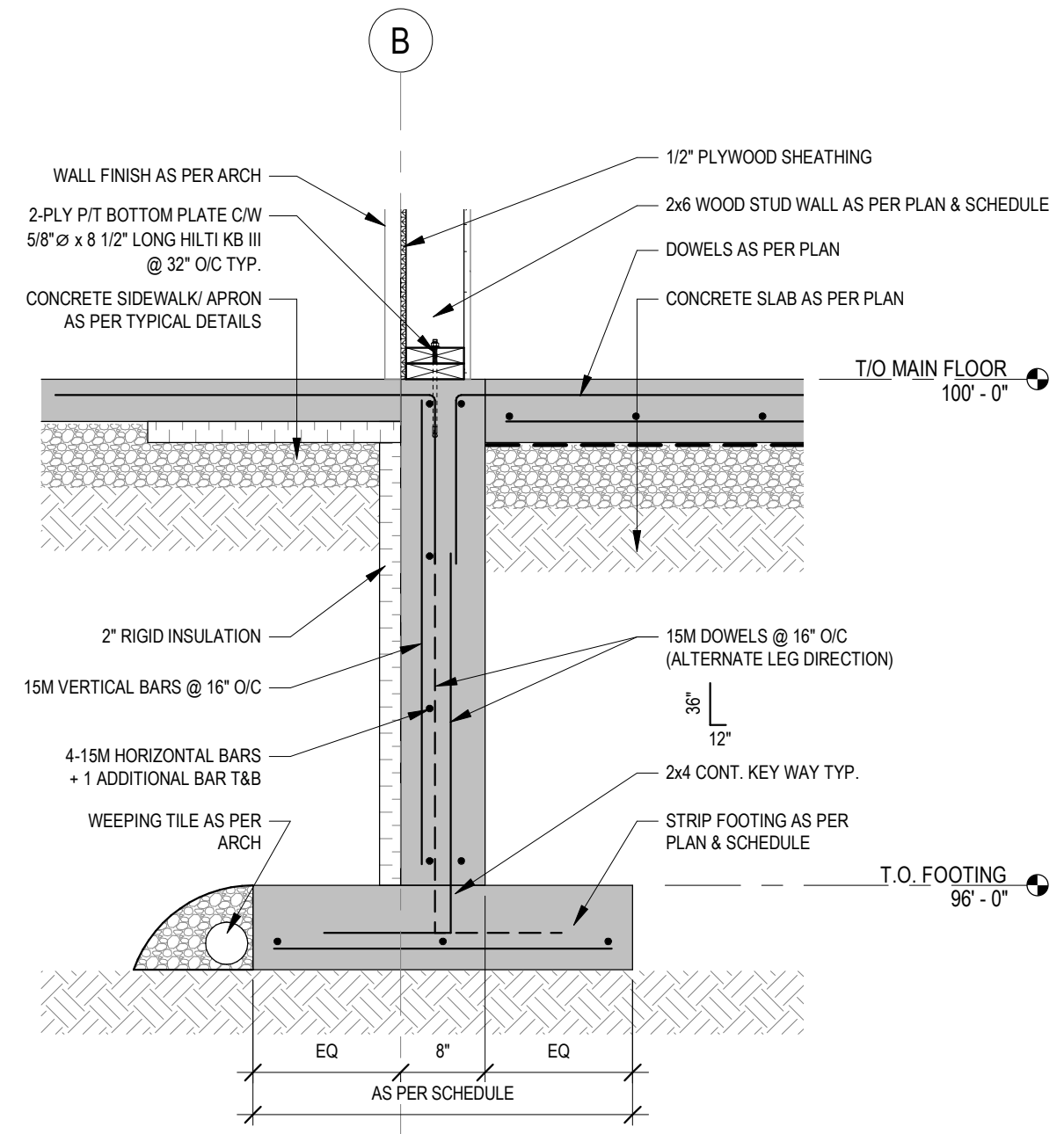
MARK	SHAFT DIA.	SHAFT WALL THICKNESS	HELIX DIA.	HELIX THICKNESS	MIN. DEPTH	AXIAL RESISTANCE (kN)	REMARKS
P1	4-1/2\"/>						

SCREW PILE NOTES

- 'SPx' ON PLANS DENOTES STEEL PILE. REFER TO PILE SCHEDULE ON THIS SHEET.
- ALL STEEL BOLTS AND STUDS TO CONFORM TO ASTM A325.
- ALL PIPE MATERIAL SHALL BE A252 GRADE 3 310MPa YIELD STRENGTH 450MPa ULTIMATE TENSILE STRENGTH. ALL HELIX MATERIAL TO BE GRADE 44W-310MPa YIELD STRENGTH.



2 FOUNDATION SECTION
3/4\"/>



3 FOUNDATION SECTION
3/4\"/>

NOTES

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REVISION SCHEDULE

ISSUED FOR:	REVISION	DATE
90% CLIENT REVIEW	C	2020.05.20
TENDER	O	2020.06.02

CLIENT:
CLEARHILLS COUNTY

PROJECT:
CLEARHILLS FIREHALL

SITE DESCRIPTION: LOT 84 & 85, BLOCK 1, PLAN 07252595, CLEARDALE, CLEARHILLS COUNTY, AB

DRAWING:
FOUNDATION PLAN & DETAILS

DRAWN BY:	GB	PROF. REVIEW:	BF
TECH. REVIEW:	JW	FINAL REVIEW:	BF
SPA PROJECT NUMBER:	20-048		

DRAWING NUMBER: S1.1 **REVISION:** 0

- FLOOR FRAMING NOTES:**
1. U.S. FLOOR TRUSS BEARING ELEV. = 108'-8 1/4"
 2. FLOOR TRUSSES SHALL BE DESIGNED FOR A MAXIMUM LIVE LOAD DEFLECTION OF L/360.
 3. CONTRACTOR TO CONFIRM ALL DIMENSIONS PRIOR TO COMMENCING WORK.
 4. JOIST SPACING NOT TO EXCEED 16" O.C. DECREASE SPACING IF REQUIRED.
 5. FRAME OPENINGS AS REQUIRED FOR ACCESS AND MECHANICAL DUCT OPENINGS.
 6. COORDINATE ALL DUCT OPENING SIZES & LOCATIONS WITH MECHANICAL. ALL DIMENSIONS AND ELEVATIONS ARE TO BE VERIFIED PRIOR TO TRUSS FABRICATION.
 7. 'Bx' ON PLANS DENOTES WOOD BEAM. REFER TO THE WOOD BEAM SCHEDULE ON THIS SHEET.
 8. 'Gx' ON PLANS DENOTES WOOD COLUMN. REFER TO THE WOOD COLUMN SCHEDULE ON THIS SHEET.
 9. ALL TRUSS BRACING AND ASSOCIATED CONNECTIONS ARE TO BE DESIGNED BY THE TRUSS SUPPLIER.
 10. PROVIDE SHOP DRAWINGS FOR ALL TRUSSES. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A P. ENGINEER. TRUSS SUPPLIER'S ENGINEER TO INSPECT ALL TRUSSES ONCE INSTALLED AND VERIFY INSTALLATION IN WRITING.
 11. PROVIDE SHOP DRAWINGS FOR ALL TRUSS CONNECTIONS. UNLESS OTHERWISE NOTED ALL CONNECTIONS TO BE DESIGNED BY THE SUPPLIER. ALL SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A P. ENGINEER.
 12. PROVIDE SHOP DRAWINGS FOR ALL LVL BEAMS AND THEIR CONNECTIONS. UNLESS NOTED OTHERWISE ALL CONNECTIONS REQUIRED FOR LVL BEAMS SHALL BE DESIGNED AND SUPPLIED BY THE SUPPLIER.
 13. CONTRACTOR TO PROVIDE FLEXIBLE CONNECTION BETWEEN NON LOAD BEARING WALLS AND FLOOR TRUSSES ABOVE TO ALLOW FOR FLOOR TRUSS DEFLECTION.
 14. U.N.O. BY SUPPLIER INSTALL TIE DOWN CLIPS AT ALL FLOOR TRUSS BEARING LOCATIONS.
 15. U.N.O. TIE DOWN CLIPS TO BE SUPPLIED BY TRUSS SUPPLIER.

FLOOR LOADS

DEAD LOAD = 0.5 kPa
= 0.8 kPa (JOIST / TRUSS SELF WEIGHT INCLUDED)
LIVE LOAD = 4.8 kPa

- JOIST/TRUSS SELF WEIGHT INCLUDED IN UNIFORM DEAD LOAD.
- ALL LOADS PRESENTED ARE UNFACTORED.

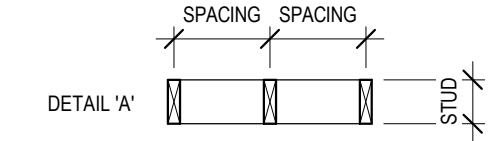
WOOD BEAM (Bx) SCHEDULE

MARK	BEAM MEMBER SIZE	# OF PLYS	LUMBER GRADE
B1	2x6	3	NO. 1/2 SPF
B2	1.34x11 1/4"	3	1.8E 220FPL LVL

- NOTES:**
- FLUSH BEAMS ARE DESIGNATED BY AN 'F' (Bx-F)
 - ALL WOOD TO WOOD CONNECTIONS AS PER SUPPLIER

STUD WALL (SWx) SCHEDULE

MARK	STUDS	SPACING	PLATES	BLOCKING	NOTES
SW1	2x6	16" O/C	2x6	48" O/C	SEE DETAIL 'A'



- NOTES:**
- THE STUD WALL SCHEDULE APPLIES TO LOAD BEARING WALLS ONLY. REFER TO ARCH. FOR ALL OTHER STUD WALL TYPES.
 - WALL FRAMING LISTED IS TYPICAL UNLESS NOTED OTHERWISE. CONFIRM ALL WALL TYPES WITH ARCH.
 - EXTERIOR WALLS TO HAVE 1/2" PLYWOOD SHEATHING ON ONE SIDE SECURED USING 2 1/2" COMMON NAILS AT 4" O/C AT PANEL EDGES & 10" O/C AT INTERIOR STUD LOCATIONS.

GANG STUD (Gx) SCHEDULE

MARK	MEMBER SIZE	NO. OF PLYS	LUMBER GRADE
G1	2x6	2	NO. 1/2 SPF
G2	2x6	3	NO. 1/2 SPF
G3	2x6	4	NO. 1/2 SPF

- NOTES:**
- ALL GANG STUDS TO BE SPF #2 OR BETTER
 - ALL LINTELS TO BE SUPPORTED BY 2-CONTINUOUS STUDS ON MAIN FLOOR & 1-CONTINUOUS STUD ON ALL OTHER FLOORS IN ADDITION TO GANG STUDS SPECIFIED IN PLAN.
 - ALL WOOD COLUMNS TO BE CONTINUOUS TO THE FND. FROM THE FLOOR/ROOF PLAN INDICATED.
 - MINIMUM SUPPORT AT LINTELS IS 2-PLY GANGED STUD TO MATCH WALL SIZE U.N.O.

- ROOF FRAMING NOTES:**
1. U.S. ROOF TRUSS BEARING ELEV. = 115'-0"
 2. ROOF TRUSSES SHALL BE DESIGNED FOR A MAXIMUM LIVE LOAD DEFLECTION OF L/360.
 3. CONTRACTOR TO CONFIRM ALL DIMENSIONS PRIOR TO COMMENCING WORK.
 4. TRUSS SPACING NOT TO EXCEED 24" O.C. DECREASE SPACING IF REQUIRED.
 5. FRAME OPENINGS AS REQUIRED FOR ACCESS AND MECHANICAL DUCT OPENINGS.
 6. COORDINATE ALL DUCT OPENING SIZES & LOCATIONS WITH MECHANICAL. ALL DIMENSIONS AND ELEVATIONS ARE TO BE VERIFIED PRIOR TO TRUSS FABRICATION.
 7. 'Bx' ON PLANS DENOTES WOOD BEAM. REFER TO THE WOOD BEAM SCHEDULE ON THIS SHEET.
 8. 'Gx' ON PLANS DENOTES WOOD COLUMN. REFER TO THE WOOD COLUMN SCHEDULE ON THIS SHEET.
 9. ALL TRUSS BRACING AND ASSOCIATED CONNECTIONS ARE TO BE DESIGNED BY THE TRUSS SUPPLIER.
 10. PROVIDE SHOP DRAWINGS FOR ALL TRUSSES. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A P. ENGINEER. TRUSS SUPPLIER'S ENGINEER TO INSPECT ALL TRUSSES ONCE INSTALLED AND VERIFY INSTALLATION IN WRITING.
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 12. PROVIDE SHOP DRAWINGS FOR ALL LVL BEAMS AND THEIR CONNECTIONS. UNLESS NOTED OTHERWISE ALL CONNECTIONS REQUIRED FOR LVL BEAMS SHALL BE DESIGNED AND SUPPLIED BY THE SUPPLIER.
 13. CONTRACTOR TO PROVIDE FLEXIBLE CONNECTION BETWEEN NON LOAD BEARING WALLS AND ROOF TRUSSES ABOVE TO ALLOW FOR ROOF TRUSS DEFLECTION.
 14. U.N.O. BY SUPPLIER INSTALL TIE DOWN CLIPS AT ALL ROOF TRUSS BEARING LOCATIONS.
 15. U.N.O. TIE DOWN CLIPS TO BE SUPPLIED BY TRUSS SUPPLIER. WATER RETENTION ON ROOF IS NOT PERMITTED.

ROOF LOADS

DEAD LOAD = 7.5 kPa
= 1.0 kPa (JOIST / TRUSS SELF WEIGHT INCLUDED)
LIVE LOAD = 1.0 kPa
SNOW LOAD = 2.53 kPa

- JOIST/TRUSS SELF WEIGHT INCLUDED IN UNIFORM DEAD LOAD.
- ALL LOADS PRESENTED ARE UNFACTORED.

NOTES

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REVISION SCHEDULE

ISSUED FOR:	REVISION	DATE
90% CLIENT REVIEW	C	2020.05.20
TENDER	0	2020.06.02

CLIENT:
CLEARHILLS COUNTY

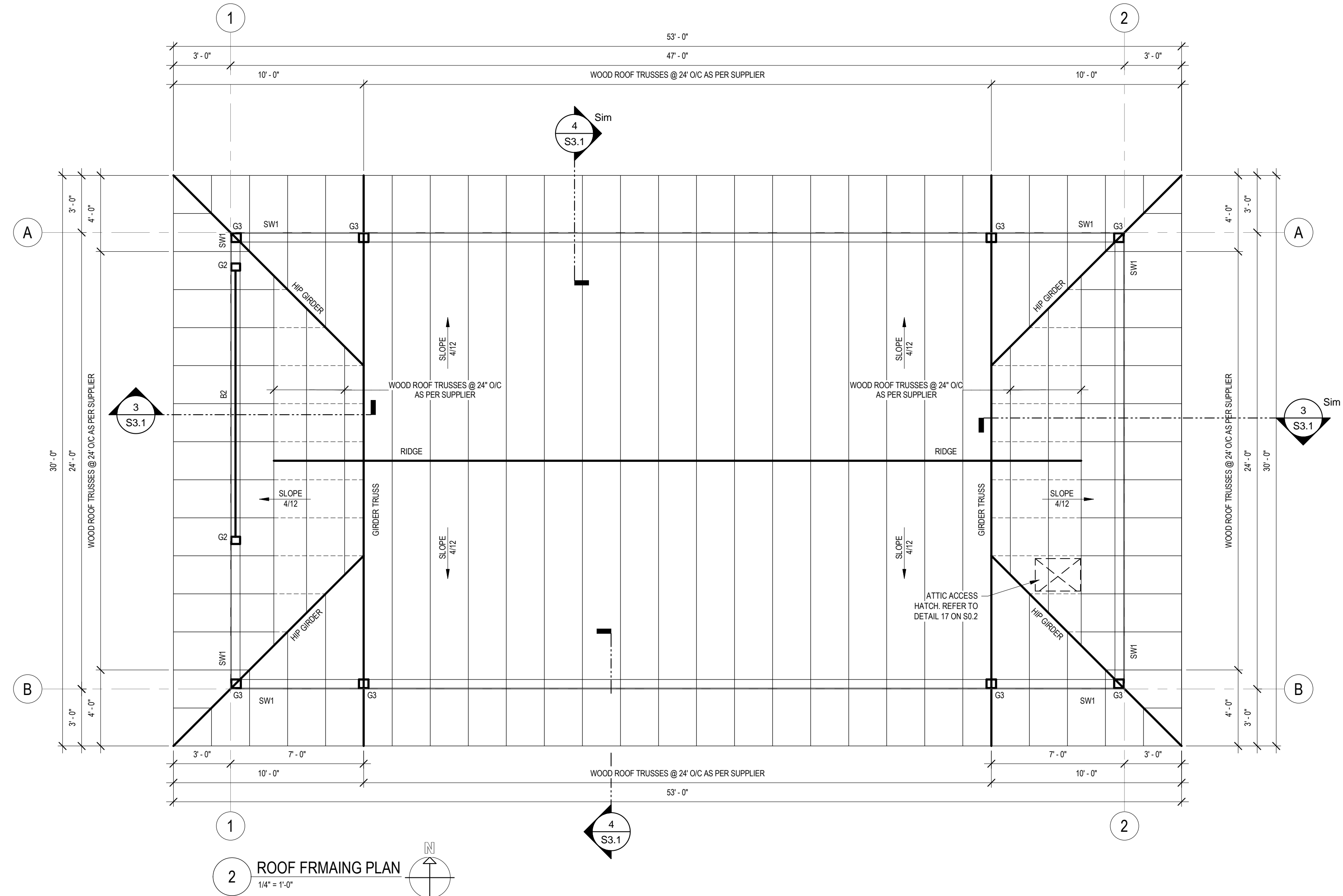
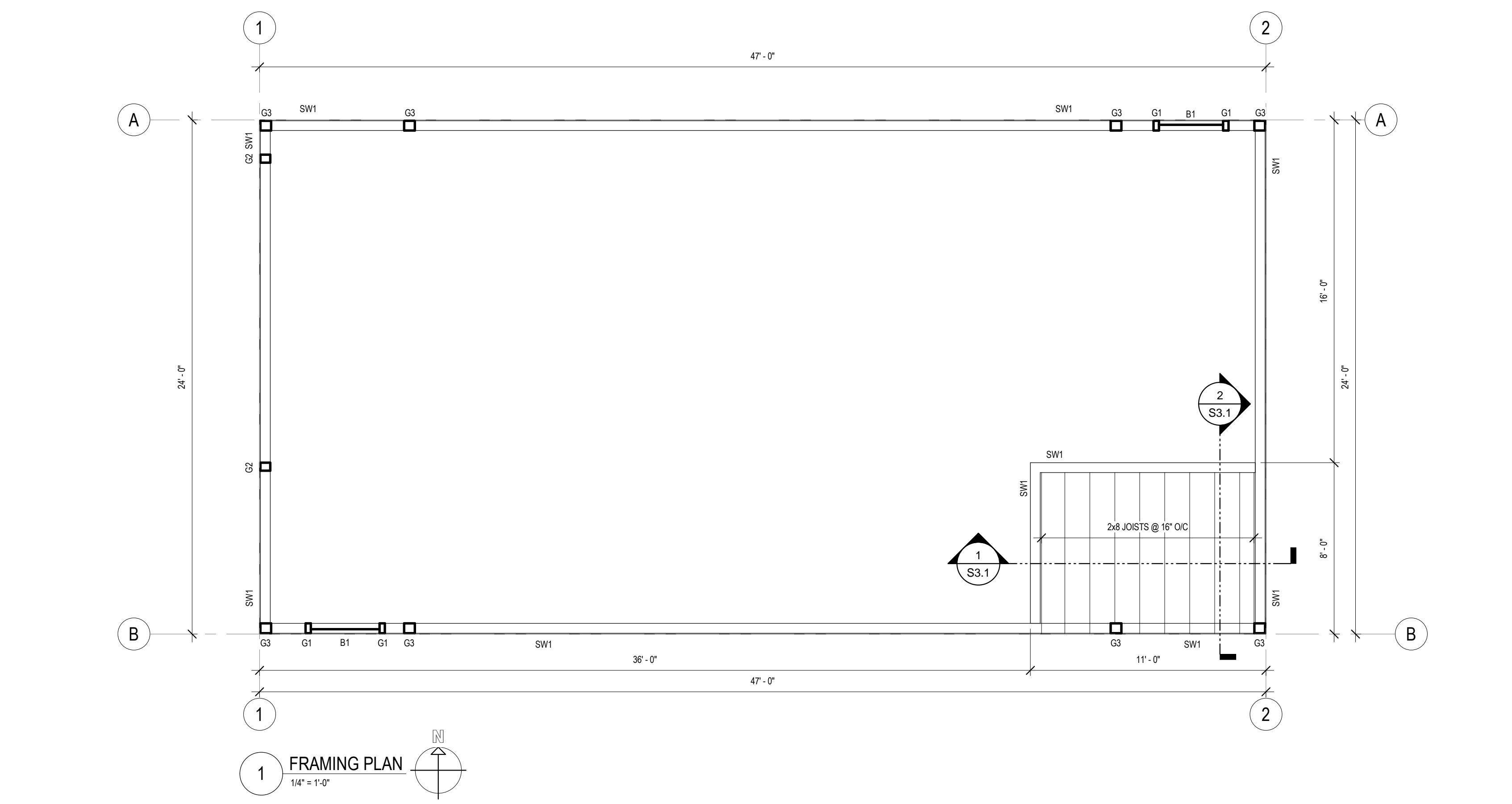
PROJECT:
CLEARHILLS FIREHALL

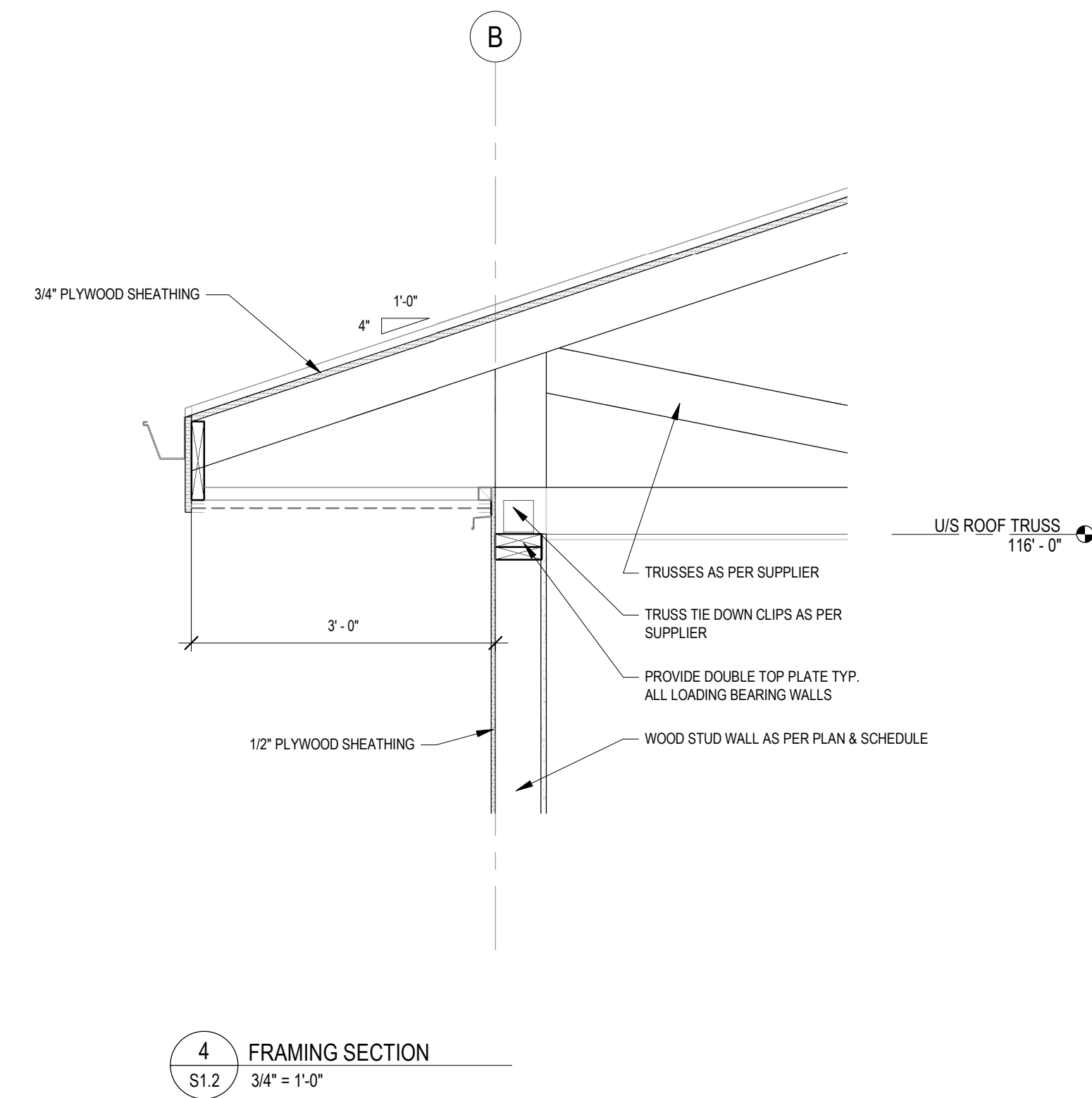
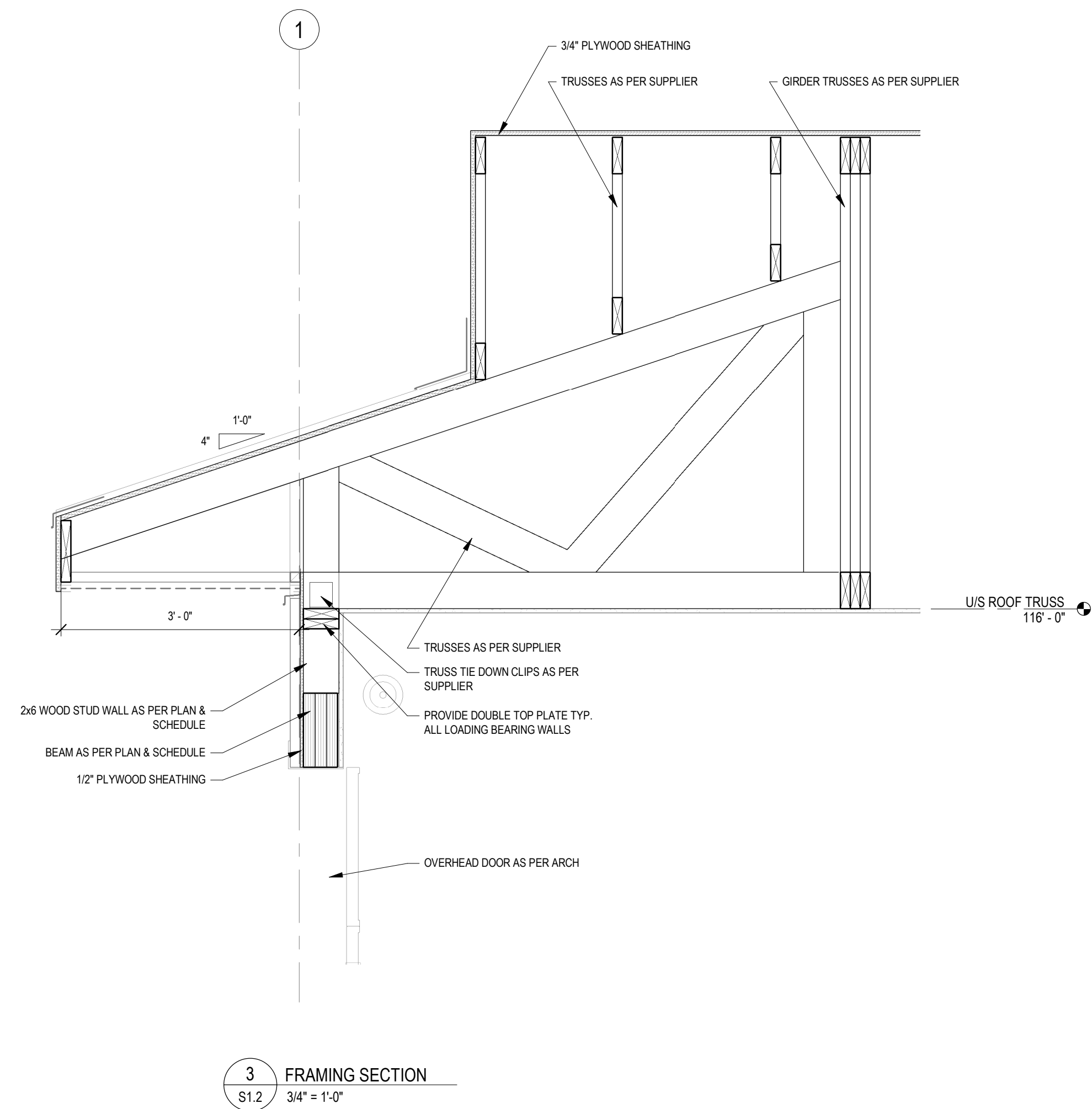
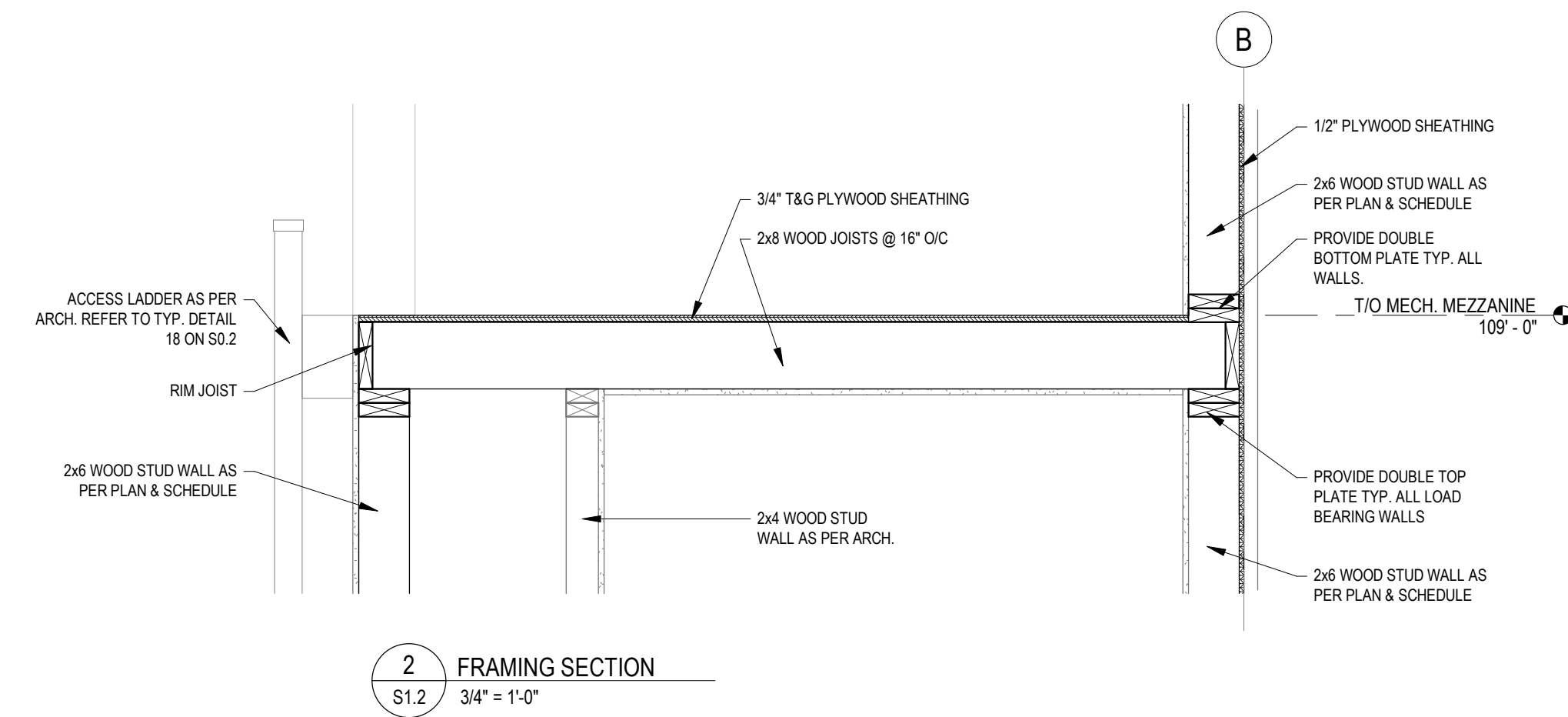
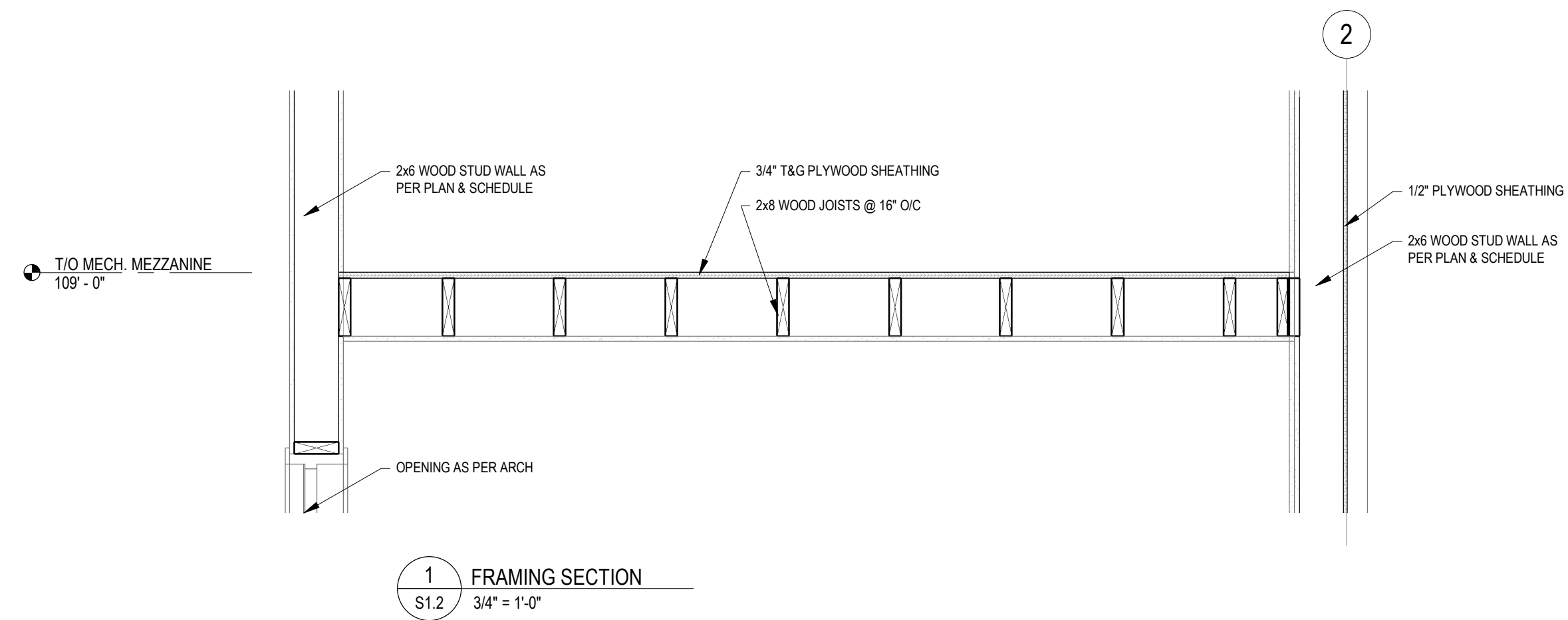
SITE DESCRIPTION: LOT 84 & 85, BLOCK 1, PLAN 07252595, CLEARDALE, CLEARHILLS COUNTY, AB

DRAWING:
FRAMING PLANS

DRAWN BY:	GB	PROF. REVIEW:	BF
TECH. REVIEW:	JW	FINAL REVIEW:	BF
SPA PROJECT NUMBER:	20-048		

DRAWING NUMBER:	S1.2	REVISION:	0
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REVISION SCHEDULE		
ISSUED FOR:	REVISION	DATE
90% CLIENT REVIEW	C	2020.05.20
TENDER	0	2020.06.02

CLIENT:
CLEARHILLS COUNTY

PROJECT:
CLEARHILLS FIREHALL

SITE DESCRIPTION: LOT 84 & 85, BLOCK 1, PLAN 07252595, CLEARDALE, CLEARHILLS COUNTY, AB

DRAWING:
FRAMING SECTIONS

DRAWN BY:	GB	PROF. REVIEW:	BF
TECH. REVIEW:	JW	FINAL REVIEW:	BF
SPA PROJECT NUMBER:	20-048		

DRAWING NUMBER:	REVISION:
S3.1	0