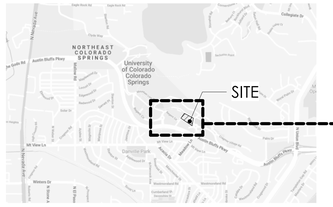
WATER INFILTRATION - CENTENNIAL HALL

PROJECT DESCRIPTION

VENEER AND WATERPROOFING REPAIRS
MODIFICATIONS TO EXISTING BRICK VENEER AND FLATWORK TO PROVIDE PROPER DRAINAGE FROM THE WALL CAVITY TO STOP INTERIOR FLOODING DURING RAIN AND SNOW EVENTS. REPAIR AND PATCH DRYWALL IN ROOMS 149 AND 149A.

SHEET LIST

VICINITY MAP



LOCATION MAP

CONTACT INFORMATION

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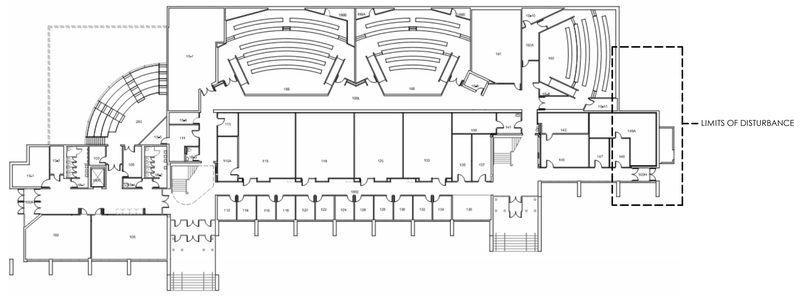

1ST FLOOR OVERALL PLAN

UCCS
University of Colorado Colorado Springs

WATER INFILTRATION - CENTENNIAL HALL
UNIVERSITY OF COLORADO COLORADO SPRINGS
1420 Austin Bluffs Pkwy
Colorado Springs, CO 80918

REVISIONS

DESCRIPTION	DATE

KL&A Engineers & Builders

STATE OF COLORADO — SCOTT TIMOTHY BLOSSER — ARC.00404082 — LICENSED ARCHITECT — 2024.11.13

COMPASS ARCHITECTURE

SHEET TITLE: COVER PAGE		
DATE: 2024.11.13	SCALE: As indicated	PRJCT 202416

G000

DIVISION 01 - GENERAL REQUIREMENTS

SECTION 01 4000
QUALITY REQUIREMENTS

PART 1 GENERAL

1.01 CONTRACTOR'S CONSTRUCTION-RELATED PROFESSIONAL DESIGN SERVICES

A. Provide such engineering design services as may be necessary to plan and safely conduct certain construction operations, pertaining to, but not limited to the following:
   1. Temporary sheeting, shoring, or supports.
   2. Temporary scaffolding.
   3. Temporary bracing.
   4. Temporary foundation underpinning.
   5. Temporary stairs or steps required for construction access only.

1.02 SUBMITTALS

A. Designer's Qualification Statement: Submit for Architect's knowledge as contract administrator, or for Owner's information.
   1. Include information for each individual professional responsible for producing, or supervising production of, design-related professional services provided by Contractor.
      a. Full name.
      b. Professional licensure information.
      c. Statement addressing extent and depth of experience specifically relevant to design of items assigned to Contractor.

B. Design Data: Submit for Architect's knowledge as contract administrator for the limited purpose of assessing compliance with information given and the design concept expressed in the Contract Documents, or for Owner's information.
   1. Include required product data and shop drawings.
   2. Include a statement or certification attesting that design data complies with criteria indicated, such as building codes, loads, functional, and similar engineering requirements.
   3. Include signature and seal of design professional responsible for allocated design services on calculations and drawings.

1.03 QUALITY ASSURANCE

A. Contractor's Quality Control (CQC) Plan:
   1. Prior to start of work, submit a comprehensive plan describing how contract deliverables will be produced. Tailor CQC plan to specific requirements of the project. Include the following information:
      a. Management Approach: Define, describe, and include in the plan specific methodologies used in executing the work.

1.04 REFERENCES AND STANDARDS

A. For products and workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.

B. Comply with reference standard of date of issue current on date of Contract Documents, except where a specific date is established by applicable code.

C. Should specified reference standards conflict with Contract Documents, request clarification from Architect before proceeding.

D. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of Architect shall be altered from Contract Documents by mention or inference otherwise in any reference document.

PART 3 EXECUTION

2.01 CONTROL OF INSTALLATION

A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of specified quality.

B. Comply with manufacturers' instructions, including each step in sequence.

C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.

D. Comply with specified standards as minimum quality for the work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.

E. Have work performed by persons qualified to produce required and specified quality.

F. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.

G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and disfigurement.

2.02 DEFECT ASSESSMENT

A. Replace Work or portions of the Work not complying with specified requirements.

B. If, in the opinion of Owner, it is not practical to remove and replace the work, Owner will direct an appropriate remedy or adjust payment.

SECTION 01 5713
TEMPORARY EROSION AND SEDIMENT CONTROL

PART 1 GENERAL

1.01 SUBMITTALS

A. Erosion and Sedimentation Control Plan:
   1. Submit within 2 weeks after Notice to Proceed.
   2. Obtain the approval of the Plan by authorities having jurisdiction.
   3. Obtain the approval of the Plan by Owner.

PART 2 PRODUCTS

2.01 MATERIALS

A. Grass Seed For Temporary Cover: Select a species appropriate to climate, planting season, and intended purpose. If same area will later be planted with permanent vegetation, do not use species known to be excessively competitive or prone to volunteer in subsequent seasons.

B. Silt Fence Fabric: Polypropylene geotextile resistant to common soil chemicals, mildew, and insects; non-biodegradable; in longest lengths possible; fabric including seams with the following minimum average roll lengths:
   1. Average Opening Size: 30 U.S. Std. Sieve (0.600 mm), maximum, when tested in accordance with ASTM D4751.
   2. Permittivity: 0.05 sec^-1, minimum, when tested in accordance with ASTM D4491/D4491M.
   3. Ultraviolet Resistance: Retaining at least 70 percent of tensile strength, when tested in accordance with ASTM D4355/D4355M after 500 hours exposure.
   4. Tensile Strength: 100 pounds-force (450 N), minimum, in cross-machine direction; 124 pounds-force (550 N), minimum, in machine direction; when tested in accordance with ASTM D4632/D4632M.
   5. Tear Strength: 55 pounds-force (245 N), minimum, when tested in accordance with ASTM D4533/D4533M.

C. Silt Fence Posts: One of the following, minimum 5 feet (1500 mm) long:
   1. Hardwood, 2 by 2 inches (50 by 50 mm) in cross section.

PART 3 EXECUTION

3.01 SCOPE OF PREVENTIVE MEASURES

A. In all cases, if permanent erosion resistant measures have been installed temporary preventive measures are not required.

B. Construction Entrances: Traffic-bearing aggregate surface.
   1. Width: As required; 20 feet (7 m), minimum.
   2. Length: 50 feet (16 m), minimum.
   3. Provide at each construction entrance from public right-of-way.
   4. Where necessary to prevent tracking of mud onto right-of-way, provide wheel washing area out of direct traffic lane, with drain into sediment trap or basin.

C. Linear Sediment Barriers: Made of silt fences.
   1. Provide linear sediment barriers:
      a. Along downhill perimeter edge of disturbed areas, including soil stockpiles.
   2. Space sediment barriers with the following maximum slope length upslope from barrier:
      a. Slope of Less Than 2 Percent: 100 feet (30 m)..
      b. Slope Between 2 and 5 Percent: 75 feet (23 m).
      c. Slope Between 5 and 10 Percent: 50 feet (15 m).
      d. Slope Between 10 and 20 Percent: 25 feet (7.5 m).
      e. Slope Over 20 Percent: 15 feet (4.5 m).

D. Storm Drain Curb Inlet Sediment Trap: Protect each curb inlet using one of the following measures:
   1. Filter fabric wrapped around hollow concrete blocks blocking entire inlet face area; use one piece of fabric wrapped at least 1-1/2 times around concrete blocks and secured to prevent dislodging; orient cores of blocks so runoff passes into inlet.
   2. Straw bale row blocking entire inlet face area; anchor into pavement.

E. Storm Drain Drop Inlet Sediment Traps: As detailed on drawings.

F. Temporary Splash Pads: Stone aggregate over filter fabric; size to suit application; provide at downspout outlets and storm water outlets.

G. Soil Stockpiles: Protect using one of the following measures:
   1. Cover with polyethylene film, secured by placing soil on outer edges.
   2. Cover with mulch at least 4 inches (100 mm) thickness of pine needles, sawdust, bark, wood chips, or shredded leaves, or 6 inches (150 mm) of straw or hay.

H. Mulching: Use only for areas that may be subjected to erosion for less than 6 months.

I. Temporary Seeding: Use where temporary vegetated cover is required.

3.02 MAINTENANCE

3.03 CLEAN UP

A. Remove temporary measures after permanent measures have been installed, unless permitted to remain by Architect.

B. Clean out temporary sediment control structures that are to remain as permanent measures.

C. Where removal of temporary measures would leave exposed soil, shape surface to an acceptable grade and finish to match adjacent ground surfaces.

SECTION 01 7310
CUTTING AND PATCHING

PART 1 - GENERAL

1.01 SUMMARY

A. This Section includes procedural requirements for cutting and patching.

1.02 SUBMITTALS

A. Cutting and Patching Proposal: If contractor believes that cutting and patching other than that indicated on the drawings is necessary, submit a proposal describing procedures at least **seven(7)** days before the time cutting and patching will be performed, requesting approval to proceed. Include the following information:
   1. Extent: Describe cutting and patching, show how they will be performed, and indicate why they cannot be avoided.
      a. Changes to In-Place Construction: Describe anticipated results. Include changes to structural elements and operating components, as well as changes in building's appearance and other significant visual elements.
   2. Products: List products to be used and firms or entities that will perform the Work.
   3. Dates: Indicate when cutting and patching will be performed.
   4. Utility Services and Mechanical/Electrical Systems: List services/systems that cutting and patching procedures will disturb or affect. List services/systems that will be relocated and those that will be temporarily out of service. Indicate how long services/systems will be disrupted.
   5. Structural Elements: Where cutting and patching involve adding reinforcement to structural elements, submit details and engineering calculations showing integration of reinforcement with original structure.
   6. Architect's Approval: Obtain approval of cutting and patching proposal before cutting and patching. Approval does not waive right to later require removal and replacement of unsatisfactory work.

1.03 QUALITY ASSURANCE

A. Structural Elements: Do not cut and patch structural elements in a manner that could change their load-carrying capacity or load-deflection ratio.

B. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety.

C. Miscellaneous Elements: Do not cut and patch miscellaneous elements or related components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety.

D. Visual Requirements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch construction exposed on the exterior or in occupied spaces in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.

1.04 WARRANTY

A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during cutting and patching operations, by methods and with materials so as not to void existing warranties.

PART 2 - PRODUCTS

2.01 MATERIALS

A. General: Comply with requirements specified in other Sections.

B. In-Place Materials: Use materials identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.
   1. If identical materials are unavailable or cannot be used, use materials that, when installed, will match the visual and functional performance of in-place materials.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine surfaces to be cut and patched and conditions under which cutting and patching are to be performed.
   1. Coordinate cutting and patching of any work that affects the work of the Owner or any separate Contractor.
   2. Before patching, verify compatibility with and suitability of substrates, including compatibility with in-place finishes or primers.
   3. Proceed with installation only after unsafe or unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. Temporary Support: Provide temporary support of Work to be cut.

B. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.

C. Adjoining Areas: Avoid interference with use of adjoining areas or interruption of free passage to adjoining areas.

D. Existing Utility Services and Mechanical/Electrical Systems: Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to minimize interruption to occupied areas.

3.03 PERFORMANCE

A. General: Employ qualified skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.
   1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.

B. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original installer; comply with original installer's written recommendations.
   1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots as small as possible, neatly to size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
   2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
   3. Concrete & Masonry: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
      a. Excavating and Backfilling: Comply with requirements in applicable Division 2 & 31-33 Sections where required by cutting and patching operations.
   4. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
   5. Proceed with patching after construction operations requiring cutting are complete.

C. Temporary Patching and Protection: Maintain the integrity and effectiveness of weather exposed or moisture elements or systems.

D. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other Work. Patch with durable seams that are as invisible as possible. Provide materials and comply with installation requirements specified in other Sections.

E. Cleaning: Clean areas and spaces where cutting and patching are performed. Completely remove paint, mortar, oils, putty, and similar materials.

SECTION 01 7800
CLOSEOUT SUBMITTALS

PART 1 GENERAL

1.01 SUBMITTALS

A. Project Record Documents: Submit documents to Architect with claim for final Application for Payment.

B. Operation and Maintenance Data:
   1. Submit two copies of preliminary draft or proposed formats and outlines of contents before start of Work. Architect will review draft and return one copy with comments.

C. Warranties and Bonds:
   1. For equipment or component parts of equipment put into service during construction with Owner's permission, submit documents within 10 days after acceptance.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PROJECT RECORD DOCUMENTS

A. Maintain on site one set of the following record documents; record actual revisions to the Work:
   1. Drawings.
   2. Addenda.
   3. Change Orders and other modifications to the Contract.
   4. Manufacturer's instruction for assembly, installation, and adjusting.

3.02 OPERATION AND MAINTENANCE DATA

A. Product Data: Mark each sheet to clearly identify specific products and component parts, and data applicable to installation. Delete inapplicable information.

B. Drawings: Supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams. Do not use Project Record Documents as maintenance drawings.

3.03 OPERATION AND MAINTENANCE DATA FOR MATERIALS AND FINISHES

A. For Each Product, Applied Material, and Finish:
   1. Product data, with catalog number, size, composition, and color and texture designations.

B. Instructions for Care and Maintenance: Manufacturer's recommendations for cleaning agents and methods, precautions against detrimental cleaning agents and methods, and recommended schedule for cleaning and maintenance.

3.04 WARRANTIES AND BONDS

A. Obtain warranties and bonds, executed in duplicate by responsible Subcontractors, suppliers, and manufacturers, within 10 days after completion of the applicable item of work. Except for items put into use with Owner's permission, leave date of beginning of time of warranty until Date of Substantial completion is determined.

DIVISION 02 - EXISTING CONDITIONS

SECTION 02 0342
REMOVAL AND SALVAGE OF PERIOD CONSTRUCTION MATERIALS

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

2.01 PERIOD TREATMENT, GENERAL

2.02 GENERAL PROCEDURES

A. Drawings indicating existing construction, building services, and site utilities are based on casual field observation only.

2.03 ITEMS TO BE SALVAGED

A. General: Salvage elements and components to the maximum extent possible. Maintain a chain of custody of salvaged materials, including the condition of such materials before and after salvage operations.

B. Masonry Elements: Remove intact and salvage masonry elements indicated on drawings.

2.04 MATERIALS TO BE REMOVED

A. Remove existing nonhistoric elements as indicated and as required to allow direct access to period construction elements indicated to be restored or salvaged for reuse.

B. Services: Remove existing systems and equipment to extent indicated, including but not limited to Fire Protection, Plumbing, HVAC, Electrical, and Telecommunications elements:

C. Protect existing historic elements.

2.05 MATERIALS TO BE RECYCLED

A. Recycle removed nonhistoric materials to the maximum extent possible. Remove recyclable materials by hand wherever possible.

B. Recycle dimension lumber, scrap wood, paper and cardboard, and metals.

SECTION 02 4119
SELECTIVE DEMOLITION

PART 1 - GENERAL

1.01 REFERENCE STANDARDS

A. NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations; 2022.

1.02 SUMMARY

A. This Section includes the following:
   1. Photo documentation of existing conditions.
   2. Demolition and removal of selected site elements including paving, area drains, and subgrade drain lines.

B. In addition to demolition specifically shown, cut, move, and remove items as necessary to provide access or to allow alterations and new work to proceed. Include such items as:
   1. Repair or removal of hazardous or unsanitary conditions.
   2. Removal of abandoned items and items serving no useful purpose, such as abandoned piping, conduit and wiring.
   3. Removal of unsuitable or extraneous materials not marked for salvage, such as abandoned furnishings and equipment, and debris such as rotted wood, rusted metals, and deteriorated concrete.
   4. Cleaning of surfaces, and removal of surface finishes, as needed to install new work and finishes.

C. Related Requirements:
   1. See Division 0 "General Conditions" for encounter of hazardous materials.
   2. See Division 1 Sections "Cutting and Patching" for additional requirements.

1.03 DEFINITIONS

A. Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be removed and salvaged or removed and reinstalled.

B. Remove and Salvage: Detach items from existing construction and deliver them to Owner.

C. Remove and Reinstall: Detach items from existing construction, prepare them for reuse, and reinstall them where indicated.

D. Existing to Remain: Existing items of construction that are not to be removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.

1.04 SUBMITTALS

A. Pre-demolition Photographs or Videotapes: Show existing conditions of adjoining construction and site improvements, including finish surfaces that might be misconstrued as damaged caused by selective demolition operations.

B. Landfill Records: Indicate receipt and acceptance of hazardous wastes by a landfill facility licensed to accept hazardous wastes.

1.05 QUALITY ASSURANCE

A. Demolition Firm Qualifications: An experienced firm that has specialized in demolition work similar in material and extent to that indicated for this Project.

B. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

C. Obtain required permits from authorities, including but not limited to Right-of Way encroachments, hot-work permits, hazardous material disturbance/abatement permits and hauling or disposal permits.

D. Standards: Comply with ANSI/ASSP A10.6 and NFPA 241.

E. Conduct conference at Project site during the preconstruction meeting.

1.06 PROJECT CONDITIONS

A. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.

B. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.

C. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.

D. Hazardous Materials: It **is not** expected that hazardous materials will be encountered in the Work. See General Conditions for additional clarifications.
   1. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Owner may elect to remove or abate hazardous materials under a separate contract.

E. Unless otherwise indicated, demolition waste becomes property of Contractor.
   1. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to Owner that may be uncovered during demolition remain the property of Owner. Carefully salvage in a manner to prevent damage and promptly return to Owner.

F. Storage or sale of removed items or materials on-site is not permitted.

G. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.

H. Do not close or obstruct building exits or vehicle roadways without Jurisdictional and Owner approval.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.01 EXAMINATION

A. Photodocumentation: Before commencement of the Work, take photographs of Project site and surrounding areas, including existing items to remain during construction, from different vantage points, as necessary to document condition of existing items to remain for purposes of determining if any damage was the result of construction activities.

B. Arrange for utility locates. Verify that utilities have been disconnected and capped as necessary to perform work.

C. Perform necessary measurements and surveys of existing paving and concrete elements that are indicated to be replaced, to document the size and grades to be replicated in their reconstruction

D. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required. Inventory and record the condition of items to be removed and reinstalled and items to be removed and salvaged.

E. When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to Architect.

F. Perform surveys as the Work progresses to detect hazards resulting from selective demolition activities.

3.02 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

A. Existing Services/Systems: Maintain services/systems indicated to remain and protect them against damage during selective demolition operations.
   1. If existing utility interruptions are necessary schedule interruptions of building utilities for hours when building is closed to normal operations, i.e., weekends, evenings, etc. Notify Owner a minimum of **48** hours in advance of all utility interruptions, including those scheduled for off hours.

3.03 PREPARATION

A. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.

B. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.

3.04 SELECTIVE DEMOLITION – GENERAL

A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Do not demolish elements beyond what is indicated on Drawings without Architect's or Owner's approval. Use methods required to complete the Work within limitations of governing regulations and as follows:
   1. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.
   2. Do not use explosives.
   3. Break concrete and masonry into sections less than 3 feet in any dimension.
   4. Nuisance Dust Control:
      a. Demolition debris that contains dust or other material that could become airborne or create a nuisance shall either be removed from the work site daily, or shall be covered and secured with tarps or sheeting until removed from the site.
      b. Apply a water mist, or other means approved by the Owner, on debris to control or mitigate airborne dust or airborne nuisances, unless the material will become friable (i.e., crumble easily) or will dissolve in water. Friable material and material that may dissolve in water shall be securely covered with tarps or sheeting.
      c. Demolition debris that becomes friable when wetted or will dissolve in water shall be stored only on impervious surfaces, field-installed ground sheeting, or other barriers.
   5. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
   6. Do not use cutting torches until work area is cleared of flammable materials.
   7. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
   8. Dispose of demolished items and materials promptly and properly.

B. Protection of Existing Facilities: Contractor shall take necessary precautions to protect existing building and site elements.

C. Removed and Salvaged Items:
   1. Clean salvaged items.
   2. Pack or crate items after cleaning. Identify contents of containers.
   3. Store items in a secure area until delivery to Owner.
   4. Transport items to Owner's storage area designated by Owner.
   5. Protect items from damage during transport and storage.

D. Removed and Reinstalled Items:
   1. Paint equipment to match new equipment.
   2. Pack or crate items after cleaning and repairing. Identify contents of containers.
   3. Protect items from damage during transport and storage.
   4. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.

E. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Owner, items may be removed to a suitable, protected storage location during selective demolition and cleaned and reinstalled in their original locations after selective demolition operations are complete.

F. Existing structures, facilities, etc. that are damaged or removed due to required construction work, shall be patched, repaired, or replaced, and be left in their original state of repair by the Contractor, to satisfaction of the Architect.

3.05 SELECTIVE DEMOLITION OF SITE ELEMENTS AND UNDERGROUND UTILITIES

A. General: Protect trees and plants remaining on-site. Repair or replace trees, shrubs, and other vegetation indicated to remain or be relocated that are damaged by construction operations, in a manner approved by Architect and Owner.

B. Protect other site features indicated to remain in a manner acceptable to the Architect and Owner.
   1. Landscape Features: Retaining walls, Boulders, Landscaping, etc)
   2. Irrigation Systems:
   3. Underground Utilities: (Storm Drainage, Sanitary Sewer, Electrical, Communications, Gas)

C. Remove existing above- and below-grade improvements as indicated and necessary to facilitate new construction.
   1. Portland Cement Paving, Curbs and Gutters: Sawcut perimeters of items to be removed. Remove to nearest existing joint where practical. Remove full depth.

3.06 DISPOSAL OF DEMOLISHED MATERIALS

A. General: Except for items or materials indicated to be recycled, reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, remove demolished materials from Project site in accordance with local, state, and federal laws and regulations, and legally dispose of them in an EPA-approved landfill.
   1. Do not allow demolished materials to accumulate on-site.
   2. Transport demolished materials off Owner's property and legally dispose of them.
   3. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
   4. Do not burn demolished materials.

3.07 CLEANING

A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

DIVISION 04 - MASONRY

SECTION 04 2613
MASONRY VENEER

PART 1 GENERAL

1.01 SUBMITTALS

A. Samples: Submit four samples of decorative block units to illustrate color, texture, and extremes of color range.

1.02 FIELD CONDITIONS

A. Cold and Hot Weather Requirements: Comply with requirements of TMS 402/602 or applicable building code, whichever is more stringent.

PART 2 PRODUCTS

2.01 BRICK UNITS

A. Facing Brick: ASTM C216, Type FBS Smooth, Grade SW.
   1. Color and Texture: to match existing.
   2. Nominal Size: As indicated on drawings.
   3. Compressive Strength: As indicated on drawings, measured in accordance with ASTM C67/C67M.

2.02 MORTAR AND GROUT MATERIALS

A. Masonry Cement: ASTM C91/C91M Type N.
   1. Colored Mortar: Premixed cement as required to match color on existing building.

B. Water: Clean and potable.

2.03 REINFORCEMENT AND ANCHORAGE

A. Masonry Veneer Anchors: 2-piece anchors that permit differential movement between masonry veneer and structural backup, hot dip galvanized to ASTM A 153/A 153M, Class B.
   1. Vertical adjustment: Not less than 3-1/2 inches (89 mm).
   2. Seismic Feature: Provide lip, hook, or clip on end of wire ties to engage or enclose not less than one continuous horizontal joint reinforcement wire of 0.1483 inch (3.8 mm) diameter.

2.04 FLASHINGS

A. Metal Flashing Materials:
   1. Stainless Steel Flashing: ASTM A666, Type 304, soft temper; 26 gauge, 0.0187 inch (0.48 mm) thick; finish 2B to 2D.

B. Membrane Asphaltic Flashing Materials:
   1. Rubberized Asphalt Flashing: Self-adhering polymer modified asphalt sheet; 40 mils (0.040 inch) (1.0 mm) minimum total thickness; 8 mil (0.20 mm) cross-laminated polyethylene bonded to adhesive rubberized asphalt, with a removable release liner.

2.05 ACCESSORIES

A. Weeps:
   1. Type: Molded PVC grilles, insect resistant.

PART 3 EXECUTION

3.01 COURSING

A. Establish lines, levels, and coursing indicated. Protect from displacement.

B. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.

C. Brick Units:
   1. Bond: Running or Soldier to match existing conditions. Recessed bond where required to match existing.
   2. Coursing: Three units and three mortar joints to equal 8 inches (200 mm).
   3. Mortar Joints: Concave.

3.02 PLACING AND BONDING

A. Lay solid masonry units in full bed of mortar, with full head joints, uniformly jointed with other work.

B. Lay hollow masonry units with face shell bedding on head and bed joints.

3.03 WEEPS/CAVITY VENTS

A. Install weeps in veneer walls at 24 inches (600 mm) on center horizontally on top of through-wall flashing above shelf angles and lintels and at bottom of walls.

3.04 CAVITY MORTAR CONTROL

A. Do not permit mortar to drop or accumulate into cavity air space or to plug weep/cavity vents.

3.05 REINFORCEMENT AND ANCHORAGE - MASONRY VENEER

A. Install horizontal joint reinforcement 16 inches (400 mm) on center.

B. Place masonry joint reinforcement in first and second horizontal joints above and below openings. Extend minimum 16 inches (400 mm) each side of opening.

3.06 MASONRY FLASHINGS

A. Whether or not specifically indicated, install masonry flashing to divert water to exterior at all locations where downward flow of water will be interrupted.

B. Terminate flashing up 8 inches (203 mm) minimum on vertical surface of backing:

C. Lap end joints of flashings at least 6 inches (152 mm), minimum, and seal watertight with flashing sealant/adhesive.

DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES

SECTION 06 1000
ROUGH CARPENTRY

PART 2 PRODUCTS

1.01 GENERAL REQUIREMENTS

A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.
   1. Species: Douglas Fir-Larch, unless otherwise indicated.
   2. If no species is specified, provide species graded by the agency specified; if no grading agency is specified, provide lumber graded by grading agency meeting the specified requirements.
   3. Grading Agency: Grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee at www.alsc.org, and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.

1.02 DIMENSION LUMBER FOR CONCEALED APPLICATIONS

A. Sizes: Nominal sizes as indicated on drawings, S4S.

B. Moisture Content: S-dry or MC19.

C. Stud Framing (2 by 2 through 2 by 6 (50 by 50 mm through 50 by 150 mm)):
   1. Species: Douglas Fir-Larch.
   2. Grade: No. 2.

1.03 ACCESSORIES

A. Fasteners and Anchors:
   1. Metal and Finish: Hot-dipped galvanized steel complying with ASTM A153/A153M for high humidity and preservative-treated wood locations, unfinished steel elsewhere.

1.04 FACTORY WOOD TREATMENT

A. Treated Lumber and Plywood: Comply with requirements of AWPA U1 - Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.
   1. Fire-Retardant Treated Wood: Mark each piece of wood with producer's stamp indicating compliance with specified requirements.

PART 3 EXECUTION

2.01 INSTALLATION - GENERAL

A. Select material sizes to minimize waste.

B. Where treated wood is used on interior, provide temporary ventilation during and immediately after installation sufficient to remove indoor air contaminants.

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

SECTION 07 1113
BITUMINOUS DAMPPROOFING

PART 1 GENERAL

1.01 FIELD CONDITIONS

A. Maintain ambient temperatures above 40 degrees F (5 degrees C) for 24 hours before and during application until dampproofing has cured.

PART 2 PRODUCTS

2.01 BITUMINOUS DAMPPROOFING

A. Bituminous Dampproofing: Cold-applied, spray-grade; asphalt base, volatile petroleum solvents, and other content, suitable for application by spray, brush, roller, or squeegee; asbestos-free; suitable for application on vertical and horizontal surfaces.
   1. Composition: ASTM D4479/D4479M Type I, asbestos free.
   2. VOC Content: Not more than permitted by local, State, and federal regulations.
   3. Applied Thickness: 1/16 inch (1.5 mm), minimum, wet film.

2.02 BITUMEN MATERIALS

A. Cold Asphaltic Type:
   1. Asphalt Primer: ASTM D41/D41M, compatible with substrate.

2.03 ACCESSORIES

A. Drainage Panel: 1/4-inch (6 mm) thick formed plastic, hollowed sandwich.

PART 3 EXECUTION

3.01 APPLICATION

A. Foundation Walls: Apply two coats of asphalt dampproofing.

B. Foundation Walls: Patch disturbed areas of existing dampproofing with two additional coats of dampproofing of the same generic type.

C. Perform this work in accordance with manufacturer's instructions and NRCA (WM) applicable requirements.

SECTION 07 2100
THERMAL INSULATION

PART 2 PRODUCTS

1.01 APPLICATIONS

A. Insulation in Metal Framed Walls: Batt insulation with separate vapor retarder.

1.02 MINERAL FIBER BLANKET INSULATION MATERIALS

A. Flexible Glass Fiber Blanket Thermal Insulation: Preformed insulation, complying with ASTM C665: friction fit.
   1. Flame Spread Index: 75 or less, when tested in accordance with ASTM E84.
   2. Smoke Developed Index: 450 or less, when tested in accordance with ASTM E84.
   3. Combustibility: Non-combustible, when tested in accordance with ASTM E136, except for facing, if any.
   4. Thermal Resistance: R-value (RSI-value) of that as indicated on drawings (____).

1.03 ACCESSORIES

A. Interior Vapor Retarder: Modified polyethylene/polyacrylate (PE/PA) film reinforced with polyethylene terephthalate (PET) fibers, 12 mil, 0.012 inch (0.30 mm) thick.
   1. Width: 4.9 feet (1.5 m).

B. Tape: Reinforced polyethylene film with acrylic pressure sensitive adhesive.
   1. Application: Sealing of interior circular penetrations, such as pipes or cables.

PART 3 EXECUTION

2.01 BATT INSTALLATION

A. Install insulation and vapor retarder in accordance with manufacturer's instructions.

B. Install in exterior wall and roof spaces without gaps or voids. Do not compress insulation.

SECTION 07 6200
SHEET METAL FLASHING AND TRIM

PART 2 PRODUCTS

1.01 SHEET MATERIALS

A. Galvanized Steel: ASTM A653/A653M, with G90/Z275 zinc coating; minimum 24-gauge, 0.0239-inch (0.61 mm) thick base metal.

1.02 FABRICATION

A. Form sections true to shape, accurate in size, square, and free from distortion or defects.

B. Form pieces in longest possible lengths.

C. Form material with flat lock seams, except where otherwise indicated; at moving joints, use sealed lapped, bayonet-type or interlocking hooked seams.

1.03 ACCESSORIES

A. Fasteners: Galvanized steel, with soft neoprene washers.

B. Primer: Zinc chromate type.

C. Concealed Sealants: Non-curing butyl sealant.

D. Exposed Sealants: ASTM C920; elastomeric sealant, with minimum movement capability as recommended by manufacturer for substrates to be sealed; color to match adjacent material.

PART 3 EXECUTION

2.01 INSTALLATION

A. Secure flashings in place using concealed fasteners, and use exposed fasteners only where permitted..

B. Seal metal joints watertight.

SECTION 07 9200
JOINT SEALANTS

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Submit manufacturer's technical datasheets for each product to be used; include the following:
   1. Physical characteristics, including movement capability, VOC content, hardness, cure time, and color availability.
   2. List of backing materials approved for use with the specific product.
   3. Substrates that product is known to satisfactorily adhere to and with which it is compatible.
   4. Substrates the product should not be used on.
   5. Substrates for which use of primer is required.

B. Color Cards for Selection: Where sealant color is not specified, submit manufacturer's color cards showing standard colors available for selection.

C. Preinstallation Field Adhesion Test Reports: Submit filled out Preinstallation Field Adhesion Test Reports log within 10 days after completion of tests; include bagged test samples and photographic records.

1.02 QUALITY ASSURANCE

A. Destructive Field Adhesion Test: Test for adhesion in accordance with ASTM C1521, using Destructive Tail Procedure.
   1. Sample: At least 18 inches (457 mm) long.
   2. Minimum Elongation Without Adhesive Failure: Consider the tail at rest, not under any elongation stress; multiply the stated movement capability of the sealant in percent by two; then multiply 1 inch (25.4 mm) by that percentage; if adhesion failure occurs before the 1-inch mark is that distance from the substrate, the test has failed.
   3. If either adhesive or cohesive failure occurs before minimum elongation, take necessary measures to correct conditions and retest; record each modification to products or installation procedures.

1.03 WARRANTY

A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.

B. Manufacturer Warranty: Provide 2-year manufacturer warranty for installed sealants and accessories that fail to achieve a watertight seal, exhibit loss of adhesion or cohesion, or do not cure. Complete forms in Owner's name and register with manufacturer.

PART 2 PRODUCTS

2.01 JOINT SEALANT APPLICATIONS

A. Scope:
   1. Exterior Joints: Seal open joints, whether or not the joint is indicated on drawings, unless specifically indicated not to be sealed. Exterior joints to be sealed include, but are not limited to:
      a. Wall expansion and control joints.
      b. Joints between door, window, and other frames and adjacent construction.
      c. Joints between different exposed materials.
      d. Openings below ledge angles in masonry.
      e. Other joints indicated below.
   2. Interior Joints: Do not seal interior joints unless specifically indicated to be sealed. Interior joints to be sealed include, but are not limited to, the following items.
      a. Joints between door, window, and other frames and adjacent construction.
      b. Other joints indicated below.
   3. Do not seal the following types of joints:
      a. Intentional weep holes in masonry.
      b. Joints indicated to be treated with manufactured expansion joint cover, or some other type of sealing device.

2.03 NONSAG JOINT SEALANTS

A. Nonstaining Silicone Sealant: ASTM C920, Grade NS, Uses M and A; not expected to withstand continuous water immersion or traffic.
   1. Movement Capability: Plus and minus 50 percent, minimum.
   2. Nonstaining to Porous Stone: Nonstaining to light-colored natural stone when tested in accordance with ASTM C1248.
   3. Dirt Pick-Up: Reduced dirt pick-up compared to other silicone sealants.
   4. Color: To be selected by Architect from manufacturer's standard range.

B. Polyurethane Sealant: ASTM C920, Grade NS, Uses M and A; single or multi-component; not expected to withstand continuous water immersion or traffic.
   1. Movement Capability: Plus and minus ____ percent, minimum.

C. Noncuring Butyl Sealant: Solvent-based, single component, nonsag, nonskinning, nonhardening, nonbleeding; non-vapor permeable; intended for fully concealed applications.

PART 3 EXECUTION

3.01 EXAMINATION

A. Preinstallation Adhesion Testing: Install a sample for each test location indicated in the test plan.
   1. Test each sample as specified in PART 1 under QUALITY ASSURANCE article.
   2. Record each test on Preinstallation Adhesion Test Log as indicated.
   3. If any sample fails, review products and installation procedures, consult manufacturer, or take other measures that are necessary to ensure adhesion; retest in a different location; if unable to obtain satisfactory adhesion, report to Architect.
   4. After completion of tests, remove remaining sample material and prepare joints for new sealant installation.

3.02 INSTALLATION

A. Install this work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.

B. Provide joint sealant installations complying with ASTM C1193.

C. Install bond breaker backing tape where backer rod cannot be used.

D. Install sealant free of air pockets, foreign embedded matter, ridges, and sags, and without getting sealant on adjacent surfaces.

E. Nonsag Sealants: Tool surface concave, unless otherwise indicated; remove masking tape immediately after tooling sealant surface.

F. Concrete Floor Joint Filler: After full cure, shave joint filler flush with top of concrete slab.

DIVISION 09 - FINISHES

SECTION 09 0561
COMMON WORK RESULTS FOR FLOORING PREPARATION

PART 1 GENERAL

1.01 SUBMITTALS

A. Floor Covering and Adhesive Manufacturers' Product Literature: For each specific combination of substrate, floor covering, and adhesive to be used; showing:

B. Testing Agency's Report:
   1. Moisture and alkalinity (pH) test reports.
   2. Recommendations for remediation of unsatisfactory surfaces.

C. Adhesive Bond and Compatibility Test Report.

1.02 QUALITY ASSURANCE

A. Moisture and alkalinity (pH) testing shall be performed by an independent testing agency employed and paid by Contractor.

PART 2 PRODUCTS

2.01 MATERIALS

A. Alternate Flooring Adhesive: Floor covering manufacturer's recommended product, suitable for the moisture and pH conditions present; low-VOC. In the absence of any recommendation from flooring manufacturer, provide a product recommended by adhesive manufacturer as suitable for substrate and floor covering and for conditions present.

PART 3 EXECUTION

3.01 CONCRETE SLAB PREPARATION

A. Perform following operations in the order indicated:
   1. Existing concrete slabs (on-grade and elevated) with existing floor coverings:
      a. Visual observation of existing floor covering, for adhesion, water damage, alkaline deposits, and other defects.
      b. Removal of existing floor covering.
   2. Existing concrete slabs with coatings or penetrating sealers/hardeners/dustproofers:
      a. Do not attempt to remove coating or penetrating material.
      b. Prepare surface according to recommendations of remedial coating manufacturer and according to ASTM D4259.
   3. Preliminary cleaning.
   4. Specified remediation, if required.
   5. Patching, smoothing, and leveling, as required.
   6. Other preparation specified.
   7. Adhesive bond and compatibility test.
   8. Protection.

3.02 ADHESIVE BOND AND COMPATIBILITY TESTING

A. Comply with requirements and recommendations of floor covering manufacturer.

SECTION 09 2116
GYPSUM BOARD ASSEMBLIES

PART 2 PRODUCTS

1.01 GYPSUM BOARD ASSEMBLIES

A. Provide completed assemblies complying with ASTM C840 and GA-216.

B. Interior Partitions, Indicated as Acoustic: Provide completed assemblies with the following characteristics:
   1. Acoustic Attenuation: STC of 45-49 calculated in accordance with ASTM E413, based on tests conducted in accordance with ASTM E90.

C. Fire-Resistance-Rated Assemblies: Provide completed assemblies with the following characteristics:
   1. Fire-Resistance-Rated Partitions: UL listed assembly No. U-419; 1 hour rating.
   2. UL Assembly Numbers: Provide construction equivalent to that listed for the particular assembly in the current UL (FRD).

1.02 BOARD MATERIALS

A. Gypsum Wallboard: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
   1. Application: Use for vertical surfaces and ceilings, unless otherwise indicated.
   2. Glass mat faced gypsum panels, as defined in ASTM C1658/C1658M, suitable for paint finish, of the same core type and thickness may be substituted for paper-faced board.
   3. Thickness:
      a. Vertical Surfaces: 5/8 inch (16 mm).
      b. Ceilings: 5/8 inch (16 mm).

1.03 GYPSUM BOARD ACCESSORIES

A. Acoustic Insulation: ASTM C665; preformed mineral-fiber, friction fit type, unfaced; thickness as required for STC.

B. Beads, Joint Accessories, and Other Trim: ASTM C1047, rigid plastic, galvanized steel, or rolled zinc, unless noted otherwise.
   1. Corner Beads: Low profile, for 90 degree outside corners.
   2. Architectural Reveal Beads:
      a. Reveal Width: 1/2 inch (12 mm).

C. Joint Materials: ASTM C475/C475M and as recommended by gypsum board manufacturer for project conditions.
   1. Fiberglass Tape: 2 inch (50 mm) wide, coated glass fiber tape for joints and corners, except as otherwise indicated.
   2. Joint Compound: Setting type, field-mixed.

D. Screws for Fastening of Gypsum Panel Products to Cold-Formed Steel Studs Less than 0.033 inches (0.84 mm) in Thickness and Wood Members: ASTM C1002; self-piercing tapping screws, corrosion-resistant.

E. Screws for Fastening of Gypsum Panel Products to Steel Members from 0.033 to 0.112 inch (0.84 to 2.84 mm) in Thickness: ASTM C954; steel drill screws, corrosion-resistant.

PART 3 EXECUTION

2.01 FRAMING INSTALLATION

A. Metal Framing: Install in accordance with ASTM C754 and manufacturer's instructions.

2.02 ACOUSTIC ACCESSORIES INSTALLATION

A. Acoustic Insulation: Place tightly within spaces, around cut openings, behind and around electrical and mechanical items within partitions, and tight to items passing through partitions.

2.03 BOARD INSTALLATION

A. Comply with ASTM C840, GA-216, and manufacturer's instructions. Install to minimize butt end joints, especially in highly visible locations.

B. Fire-Resistance-Rated Construction: Install gypsum board in strict compliance with requirements of assembly listing.

2.04 JOINT TREATMENT

A. Glass Mat Faced Gypsum Board and Exterior Glass Mat Faced Sheathing: Use fiberglass joint tape, embed and finish with setting type joint compound.

B. Finish gypsum board in accordance with levels defined in ASTM C840, as follows:
   1. Level 5: Walls and ceilings to receive semi-gloss or gloss paint finish and other areas specifically indicated.
   2. Level 1: Fire-resistance-rated wall areas above finished ceilings, whether or not accessible in the completed construction.

SECTION 09 5100
ACOUSTICAL CEILINGS

PART 1 GENERAL

1.01 SUBMITTALS

A. Samples: Submit two samples 6 by 6 inch (___by____ mm) in size illustrating material and finish of acoustical units.

PART 2 PRODUCTS

2.01 ACOUSTICAL UNITS

A. Acoustical Panels: Painted mineral fiber, with the following characteristics:
   1. Classification: ASTM E1264 Type III.
   2. Size: 24 by 24 inches (610 by 610 mm).
   3. Thickness: 3/4 inch (19 mm).
   4. Panel Edge: Reveal.
   5. Tile Edge: match existing.
      a. Joint: Kerfed and rabbeted.
   6. Color: White.
   7. Suspension System: Exposed grid.

2.02 SUSPENSION SYSTEM(S)

A. Metal Suspension Systems - General: Complying with ASTM C635/C635M; die cut and interlocking components, with perimeter moldings, hold down clips, stabilizer bars, clips, and splices as required.

B. Exposed Suspension System: Stainless steel grid and cap.
   1. Structural Classification: Light-duty, when tested in accordance with ASTM C635/C635M.
   2. Profile: Tee; 15/16 inch (24 mm) face width.
   3. Color: White.

2.03 ACCESSORIES

A. Support Channels and Hangers: Galvanized steel; size and type to suit application, seismic requirements, and ceiling system flatness requirement specified.

B. Hanger Wire: 12 gauge, 0.08 inch (2 mm) galvanized steel wire.

C. Perimeter Moldings: Same metal and finish as grid.

PART 3 EXECUTION

3.01 PREPARATION

A. Install after major above-ceiling work is complete.

B. Coordinate the location of hangers with other work.

3.02 INSTALLATION - SUSPENSION SYSTEM

A. Install suspension system in accordance with ASTM C636/C636M, ASTM E580/E580M, and manufacturer's instructions and as supplemented in this section.

B. Lay out system to a balanced grid design with edge units no less than 50 percent of acoustical unit size.

3.03 INSTALLATION - ACOUSTICAL UNITS

A. Install acoustical units in accordance with manufacturer's instructions.

B. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.

SECTION 09 6500
RESILIENT FLOORING

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.

B. Selection Samples: Submit manufacturer's complete set of color samples for Architect's initial selection.

PART 2 PRODUCTS

2.01 RESILIENT BASE

A. Resilient Base: ASTM F1861, Type TS, rubber, vulcanized thermoset; style as scheduled.
   1. Height: 4 inches (100 mm).
   2. Thickness: 0.125 inch (3.2 mm).
   3. Finish: Satin.
   4. Length: Roll.
   5. Color: Burnt Umber.

PART 3 EXECUTION

3.01 INSTALLATION - GENERAL

A. Starting installation constitutes acceptance of subfloor conditions.

B. Install in accordance with manufacturer's written instructions.

3.02 INSTALLATION - RESILIENT BASE

A. Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches (45 mm) between joints.

B. All terminations at end of a roll should be made a minimum of 18 inches from any corner.

SECTION 09 6813
TILE CARPETING

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Provide data on specified products, describing physical and performance characteristics; sizes, patterns, colors available, and method of installation.

B. Samples: Submit two carpet tiles illustrating color and pattern design for each carpet color selected.

PART 2 PRODUCTS

2.01 MATERIALS

A. Tile Carpeting: Tufted, manufactured in one color dye lot.
   1. Product: Diffuse Color 24x24 Ecoworx Tile manufactured by Shaw Contract.
   2. Tile Size: 24 by 24 inch (____by____ mm), nominal.
   3. Color: Cool Gold.

2.02 ACCESSORIES

A. Adhesives:
   1. Compatible with materials being adhered; maximum VOC content as specified in Section 01 6116.

PART 3 EXECUTION

3.01 INSTALLATION

A. Blend carpet from different cartons to ensure minimal variation in color match.

B. Cut carpet tile clean. Fit carpet tight to intersection with vertical surfaces without gaps.

C. Lay carpet tile in monolithic pattern, with pile direction parallel to next unit, set parallel to building lines.

SECTION 09 9123
INTERIOR PAINTING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Scope: Finish interior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated.

B. Do Not Paint or Finish the Following Items:
   1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
   2. Items indicated to receive other finishes.
   3. Items indicated to remain unfinished.
   4. Fire rating labels, equipment serial number and capacity labels, bar code labels, and operating parts of equipment.
   5. Stainless steel, anodized aluminum, bronze, terne-coated stainless steel, and lead items.
   6. Floors, unless specifically indicated.
   7. Ceramic and other tiles.
   8. Brick, architectural concrete, cast stone, integrally colored plaster, and stucco.
   9. Glass.
   10. Concealed pipes, ducts, and conduits.

1.02 SUBMITTALS

A. Samples: Submit three paper "draw down" samples, 8-1/2 by 11 inches (216 by 279 mm) in size, illustrating range of colors available for each finishing product specified.
   1. Where sheen is specified, submit samples in only that sheen.

PART 2 PRODUCTS

2.01 PAINTS AND FINISHES - GENERAL

A. Paints and Finishes: Ready-mixed, unless intended to be a field-catalyzed paint.
   1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
   2. Supply each paint material in quantity required to complete entire project's work from a single production run.
   3. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.

2.02 PAINT SYSTEMS - INTERIOR

A. Paint I-OP - Interior Surfaces to be Painted, Unless Otherwise Indicated: Including gypsum board.
   1. Two top coats and one coat primer.
   2. Top Coat(s): Interior Latex; MPI #43, 44, 52, 53, 54, or 114.
   3. Top Coat Sheen:
      a. Satin: MPI gloss level 4; use this sheen for items subject to frequent touching by occupants, including door frames and railings.

PART 3 EXECUTION

3.01 EXAMINATION

A. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces is below the following maximums:
   1. Gypsum Wallboard: 12 percent.

3.02 PREPARATION

A. Clean surfaces thoroughly and correct defects prior to application.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.03 APPLICATION

A. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".

B. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.

SECTION 09 9600
HIGH-PERFORMANCE COATINGS

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Provide complete list of all products to be used, with the following information for each:
   1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
   2. MPI product number (e.g. MPI #47).
   3. Cross-reference to specified coating system(s) product is to be used in; include description of each system.

B. Samples: Submit two samples 8 by 8 inch (203 by 203 mm) in size illustrating colors available for selection.

PART 2 PRODUCTS

2.01 HIGH-PERFORMANCE COATINGS

A. Provide coating systems that meet the following minimum performance criteria, unless more stringent criteria are specified:

2.02 TOP COAT MATERIALS

A. Coatings - General: Provide complete multi-coat systems formulated and recommended by manufacturer for the applications indicated, in the thicknesses indicated; number of coats specified does not include primer or filler coat.

B. Latex Coating Type ____:
   1. Top Coat(s): Latex, Interior, High Performance Architectural; MPI #138, #139, #140, #141, #142.
      a. Sheen: Satin.
      b. Products:
         1) PPG Paints: Prominence Interior Latex, 84-3410 Series. Satin: www.ppgpaints.com/#sle. (MPI #139)

C. Shellac: Pure, white type.

2.03 PRIMERS

A. Primers: Provide the following unless other primer is required or recommended by coating manufacturer.
   1. Anti-Corrosive for Metal, Alkyd; MPI #79.
      a. Products:
         1) PPG Paints: Speedhide Interior/Exterior Rust Inhibitive Steel Primer, 6-212 Series: www.ppgpaints.com/#sle. (MPI #79)

2.04 ACCESSORY MATERIALS

A. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of coated surfaces.

PART 3 EXECUTION

3.01 PREPARATION

A. Clean surfaces of loose foreign matter.

B. Remove substances that would bleed through finished coatings. If unremovable, seal surface with shellac.

C. Remove finish hardware, fixture covers, and accessories and store.

3.02 PRIMING

A. Apply primer to all surfaces, unless specifically not required by coating manufacturer. Apply in accordance with coating manufacturer's instructions.

3.03 COATING APPLICATION

A. Apply coatings in accordance with manufacturer's written instructions, to thicknesses specified and recommendations in MPI - Architectural Painting and Specification Manual.

B. Apply in uniform thickness coats, without runs, drips, pinholes, brush marks, or variations in color, texture, or finish. Finish edges, crevices, corners, and other changes in dimension with full coating thickness.

GENERAL PROJECT INFORMATION AND REQUIREMENTS

GENERAL CONTRACTOR'S RESPONSIBILITIES

ALL NEW WORK IS TO COMPLY WITH UCCS DESIGN AND CONSTRUCTION STANDARDS.

GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE INSPECTION SERVICES PROVIDED BY A STATE INSPECTOR, FEES FOR MEP, FIRE DEPT. FEES AND REQUIRED PERMITS TO BE BY GENERAL CONTRACTOR. FEES FOR STATE ARCHITECT INSPECTIONS BY OWNER.

CONTRACTOR ARE RSPONSIBLE FOR MAINTAINING THE INTEGRITY OF FIRE RATED ASSEMBLIES WHEREEVER AND WHENEVER THIER WORK PENETRATES OR BREAKS THE INTEGRITY. FURNISH AND INSTALL FIRE STOPPING AT ALL OPENINGS AROUND PIPES, CONDUIT, STRUCTURAL MEMBERS, ETC. IN FIRE RATED ASSEMBLIES.

PARKING, TRASH REMOVAL, TEMPORARY FACILITIES, DELIVERIES

PARKING IS FREE DURING SEMESTER BREAKS, WEEKENDS AND HOLIDAYS THAT CLASSES ARE NOT IN SESSION, OTHERWISE, CONTRACTOR IS RESPONSIBLE FOR PARING FEES. PARKING PERMIT CAN BE PURCHASED AT THE PARKING OFFICE LOCATED ON THE FIRST LEVEL OF GATEWAY HALL.

GENERAL CONTRACTOR IS RESPONSIBLE FOR TRASH AND RECYCLING REMOVAL. COORDINATE DUMPSTER LOCATIONS WITH UCCS PROJECT MANAGER.

SCHEDULE, WORK HOURS AND BUILDING ACCESS:

WORK TO BE STARTED AND COMPLETED AS STATED IN THE BID FORMS.

ACTIVITIES CAUSING NOISE, VIBRATION, ODORS, DUST ETC. AND ACTIVITIES WHICH REQUIRE CLOSURE OF PART OF THE BUIDING OR INTERRUPTION OF UTILITY SERVICES MUST BE COORDINATED WTIH OWNER'S SCHEDULE.

ARRANGE BUILDING ACCESS WITH UCCS PROJECT MANAGER.

ALL PUBLIC MEANS OF EGRESS SHALL BE OPEN AND OPERATIONAL DURING CONSTRUCTION. CONTRACTOR SHALL NOT BLOCK OR OBSTRUCT HALLWAYS, STAIRS, DOORS, ETC, FOR THE DURATION OF THE PROJECT.

CONTRACTOR TO PROVIDE DUST PARTITION OF ADJACENT SPACES DURING CONSTRUCTION AND IS RESPONSIBLE FOR MAINTAINING THE CLEANLINESS OF THE SITE INCLUDING STAGING AREAS.

GENERAL CONSTRUCTION NOTES

1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL WORK AND MATERIALS IN ACCORDANCE WITH ALL LOCAL REGULATORY AGENCIES, APPLICABLE BUILDING CODES AND REQUIREMENTS.
2. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL PURCHASE AND MAINTAIN CERTIFICATES OF INSURANCE WITH RESPECT TO WORKMEN'S COMPENSATION, PUBLIC LIABILITY, AND PROPERTY DAMAGE FOR THE LIMITS AS REQUIRED BY LAW. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK.
3. UPON SUBMITTAL OF CONSTRUCTION COSTS, THE GENERAL CONTRACTOR SHALL ALSO SUBMIT A SCHEDULE OF VALUES AND A SPECIFIC CONSTRUCTION SCHEDULE INDICATING THE REQUIRED CONSTRUCTION TIME FOR ALL SUBCONTRACTORS AND GENERAL CONSTRUCTION WORK TO THE OWNER AND ARCHITECT.
4. THE GENERAL CONTRACTOR SHALL PROVIDE PROTECTION TO ALL EXISTING FINISHES IN THE EXISTING BUILDING AND SHALL BE RESPONSIBLE TO REPAIR ANY DAMAGES CAUSED BY HIM OR HIS SUBCONTRACTORS.
5. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE PROJECT AND SHALL COORDINATE ALL CIVIL, MECHANICAL, GENERAL CONSTRUCTION WORK SHOWN AT VARIOUS LOCATIONS THROUGHOUT THE DRAWINGS WHETHER OR NOT CROSS REFERENCED. MECHANICAL AND ELECTRICAL ITEMS MAY OCCUR WHICH ARE NOT SHOWN ON THE ARCHITECTURAL FLOOR PLANS, REFLECTED CEILING PLANS, OR ROOF PLAN.
6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF WORK, INSPECTIONS, AND APPROVALS IN ALL FIELDS OF HIS WORK AND OBTAINING THE FINAL "CERTIFICATE OF OCCUPANCY".
7. THE GENERAL CONTRACTOR SHALL HAVE ON SITE, THE APPROVED CONSTRUCTION DRAWINGS AND BUILDING PERMIT.
8. THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL VISIT AND INSPECT THE SITE PRIOR TO THE START OF CONSTRUCTION.
9. THE GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT ANY CODE VIOLATIONS, OR INCONSISTENCIES WHICH THE GENERAL CONTRACTOR OBSERVES AS EXISTING FIELD CONDITIONS OR IN THE CONTRACT DRAWINGS.
10. RESOLUTION OF ALL QUESTIONS OR VARIANCES MUST BE THROUGH THE ARCHITECT BY WRITTEN ADDENDA OR CHANGE ORDER.
11. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS NEEDED TO COMPLETE THIS PROJECT.
12. ALL WASTE AND REFUSE SHALL BE REMOVED FROM THE PREMISES AND DISPOSED OF BY THE GENERAL CONTRACTOR. THE PREMISES SHALL BE LEFT COMPLETELY CLEAR AND CLEAN TO THE SATISFACTION OF THE OWNER. THIS INCLUDES CLEANING OF ALL GLASS, METAL FRAMES, AND FLOOR FINISHES.
13. THE GENERAL CONTRACTOR SHALL PROVIDE SAMPLES OF ALL FINISHED MATERIALS TO THE OWNER FOR APPROVAL PRIOR TO PURCHASE.
14. CUT SHEETS OF ALL PRODUCTS, INCLUDING ELECTRICAL AND MECHANICAL ITEMS, MUST BE SUBMITTED AND WRITTEN APPROVAL OBTAINED FROM THE OWNER PRIOR TO PURCHASE AND INSTALLATION.
15. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO BE AWARE OF THE AVAILABILITY OF ALL MATERIALS WELL IN ADVANCE OF THE ESTIMATED DELIVERY TIME. NO SUBSTITUTIONS WILL BE MADE FOR MATERIALS DUE TO THEIR UNAVAILABILITY WITHIN TWO WEEKS OF SCHEDULED COMPLETION; ANY PROBLEMS REGARDING AVAILABILITY OF FINISH MATERIALS ARE TO BE BROUGHT TO THE OWNER'S ATTENTION IMMEDIATELY ON NOTICE TO PROCEED.
16. ALL SUBSTITUTIONS AS A RESULT OF NOTE 16, MUST BE APPROVED BY THE OWNER. THE GENERAL CONTRACTOR SHALL SUPPLY COMPLETE TECHNICAL DATA AND A STATEMENT OF THE PRICE DIFFERENCES SUCH SUBSTITUTIONS WILL MAKE (ADDITIONS, DEDUCTIONS, OR NO CHANGE) IN THE CONTRACT PRICE AND THE COMPLETION DATE.
17. THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ADEQUATE NON-COMBUSTIBLE WOOD BLOCKING WITHIN THE STEEL STUDS AS REQUIRED BY THE CONSTRUCTION DOCUMENTS BEHIND WALL HUNG SHELVING, CABINETS, GRAB BARS, TOWEL DISPENCERS, ETC., AND OTHER ITEMS REQUIRING BACKING OR BLOCKING.
18. ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL DRAWINGS AND CONSTRUCTION NOTES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
19. THE GENERAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL FABRICATED ITEMS FOR THE ARCHITECTS REVIEW PRIOR TO IMPLEMENTING FABRICATION.
20. ALL HEIGHTS ARE DIMENSIONED FROM TOP OF EXISTING SLAB UNLESS NOTED OTHERWISE "A.F.F." (ABOVE FINISH FLOOR).
21. "TYPICAL" MEANS IDENTICAL FOR ALL SAME CONDITIONS UNLESS OTHERWISE NOTED. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLAN WITH THE ARCHITECT.
22. ALL DIMENSIONS NOTED "CLEAR" OR "CLR" ARE FOR EQUIPMENT CLEARANCES AND MUST BE STRICTLY MAINTAINED. THE GENERAL CONTRACTOR SHALL VERIFY ALL CLEARANCE REQUIREMENTS PRIOR TO CONSTRUCTION OF WALLS OR OPENINGS.
23. ALL DIMENSIONS NOTED "VERIFY" OR V.I.F. ARE TO BE CHECKED BY THE GENERAL CONTRACTOR PRIOR TO CONSTRUCTION. ANY VARIATIONS ARE TO BE REPORTED TO THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
24. ALL PARTITIONS ARE DIMENSIONED STUD TO STUD, FACE OF MASONRY, CENTERLINE OF COLUMN, FACE OF EXISTING UNLESS OTHERWISE NOTED. DIMENSIONS OF INTERIOR CASEWORK ARE FROM FACE OF FINISH WALL.
25. ALL GYPSUM BOARD PARTITIONS SHALL BE TAPED, SANDED SMOOTH AND FINISHED TO A LEVEL 4 FINISH.
26. THE CEILING VENTS, GRILLS, RADIATORS, ETC., SHALL BE PAINTED TO MATCH THEIR RESPECTIVE ADJACENT SURFACES.
27. NEW GYPSUM BOARD SOFFITS ARE TO BE PAINTED ON THE UNDERSIDE.
28. ALL INTERIOR FINISHES MUST CONFORM TO THE REQUIREMENTS OF I.B.C. FIRE RESISTIVE STANDARDS OF FIRE PROTECTION.
29. ALL MILLWORK SHALL BE CONSTRUCTED AND INSTALLED BY THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL AND MECHANICAL/PLUMBING SYSTEMS THAT INTERFACE WITH THE MILLWORK.
30. ALL MILLWORK SHALL COMPLY WITH CUSTOM GRADE ARCHITECTURAL WOODWORK QUALITY STANDARDS AND GUIDE SPECIFICATIONS AS PUBLISHED BY ARCHITECTURAL WOODWORK INSTITUTE.
31. ALL ANGLES ARE 45 OR 90 DEGREES IN PLAN UNLESS OTHERWISE NOTED.
32. FINISH HANDLE HEIGHT OF ALL FIRE EXTINGUISHER CABINETS SHALL BE 48" A.F.F.- LOCATE PER FIRE DEPARTMENT.
33. CONTRACTOR TO INSTALL 5/8" GYP BD ON INSIDE OF ALL EXISTING EXTERIOR WALLS TO B.O. DECK.

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WATER INFILTRATION - CENTENNIAL HALL

UNIVERSITY OF COLORADO COLORADO SPRINGS
1420 Austin Bluffs Pkwy
Colorado Springs, CO 80918

REVISIONS

DESCRIPTION	DATE

KL&A Engineers & Builders

STATE OF COLORADO — SCOTT TIMOTHY BLOSSER — ARC.00404082 — LICENSED ARCHITECT

COMPASS ARCHITECTURE

2024.11.13

SHEET TITLE: SHEET SPECS		
DATE: 2024.11.13	SCALE: 1 1/2" = 1'-0"	PRJCT 202416

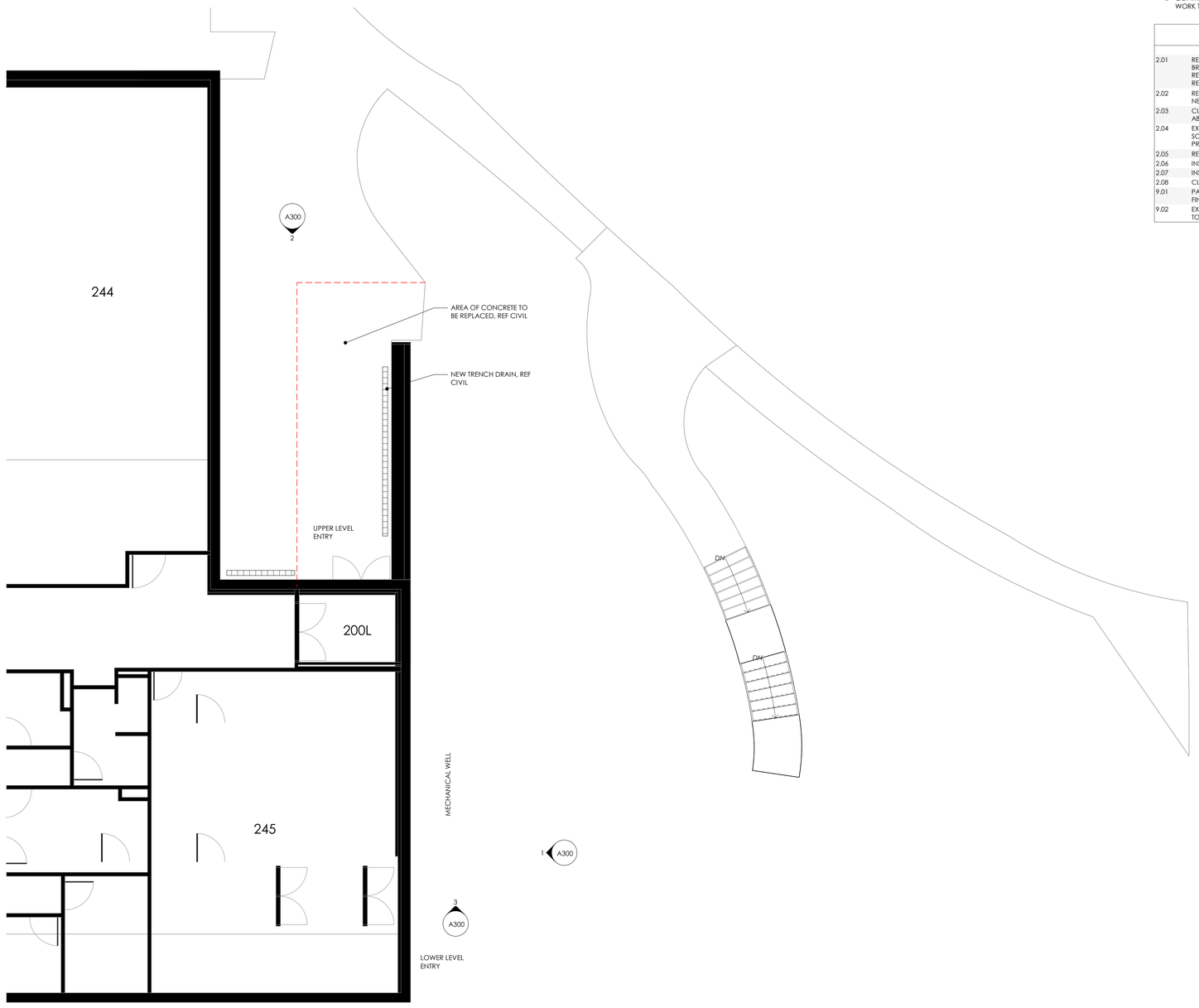
G011

SITE PLAN GENERAL NOTES

1. EXISTING VEGETATION TO BE KEPT UNLESS REMOVAL NECESSARY FOR PURPOSES OF CONSTRUCTION
2. FLOWERBED LANDSCAPING PROVIDED WHERE INDICATED ON PLAN.
3. PROVIDE ROCK MULCH IN FLOWERBEDS
4. CONTRACTOR IS RESPONSIBLE FOR ALL SITE IMPROVEMENTS AND TO RESTORE SITE WORK TO ORIGINAL CONDITION.

LEGEND - KEYNOTES

2.01	REMOVE EXISTING BRICK TO EXTENTS SHOWN. PREP NEW BRICK TIES. REINSTALL BRICK TO MATCH EXISTING BONDING PATTERN. ALL BRICK SHOULD BE CHIP REMOVED, NOT CUT. SAVE, CLEAN, AND REINSTALL BRICK. TOOTH BRICK IN AS REQUIRE TO MATCH EXISTING BONDING.
2.02	REMOVE EXISTING BRICK TO WHOLE COURSE LOCATED 4" ABOVE GRADE. INSTALL NEW LINTEL, REF STRUCT
2.03	CUT IN AND INSTALL FORMED WEEPS WITH INSECT SCREEN AT 2ND BRICK COURSE ABOVE GRADE @ 24" O.C.
2.04	EXISTING GRADE SHOWN DASHED. REMOVE ROCK AND DIRT AS REQUIRED FOR SCOPE OF WORK. SAVE AND PROTECT, REINSTALL UPON COMPLETION OF WORK. PROTECT ALL VEGETATION TO PRACTICAL EXTENTS POSSIBLE.
2.05	REMOVE EXISTING FLATWORK. REF CIVIL
2.06	INSTALL NEW BRICK LINTEL. REF STRUCT
2.07	INSTALL 60 MIL POND LINER. REF CIVIL
2.08	CLEAN AND STORE EXCESS BRICK FOR OWNER BACKSTOCK
9.01	PATCH DRYWALL WHERE PREVIOUSLY REMOVED. FINISH TO MATCH ADJACENT FINISHES.
9.02	EXPLORE EXTENT OF WATER DAMAGE AND REPLACE DRYWALL AS NEEDED. FINISH TO MATCH ADJACENT FINISHES.



TRUE NORTH

1 SITE PLAN
3/16" = 1'-0"

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SHEET TITLE: SITE PLAN		
DATE: 2024.11.13	SCALE: As indicated	PRJCT 202416

A100

FLOOR PLAN GENERAL NOTES

1. EXTERIOR DIMENSIONS ARE TO OUTSIDE OF STUD
2. INTERIOR DIMENSIONS ARE TO RIGHT AND TOP OF STUD

LEGEND - KEYNOTES

2.01	REMOVE EXISTING BRICK TO EXTENTS SHOWN. PREP NEW BRICK TIES. REINSTALL BRICK TO MATCH EXISTING BONDING PATTERN. ALL BRICK SHOULD BE CHIP REMOVED, NOT CUT. SAVE, CLEAN, AND REINSTALL BRICK. TOOTH BRICK IN AS REQUIRE TO MATCH EXISTING BONDING.
2.02	REMOVE EXISTING BRICK TO WHOLE COURSE LOCATED 4" ABOVE GRADE, INSTALL NEW LINTEL. REF STRUCT
2.03	CUT IN AND INSTALL FORMED WEEPS WITH INSECT SCREEN AT 2ND BRICK COURSE ABOVE GRADE @ 24" O.C.
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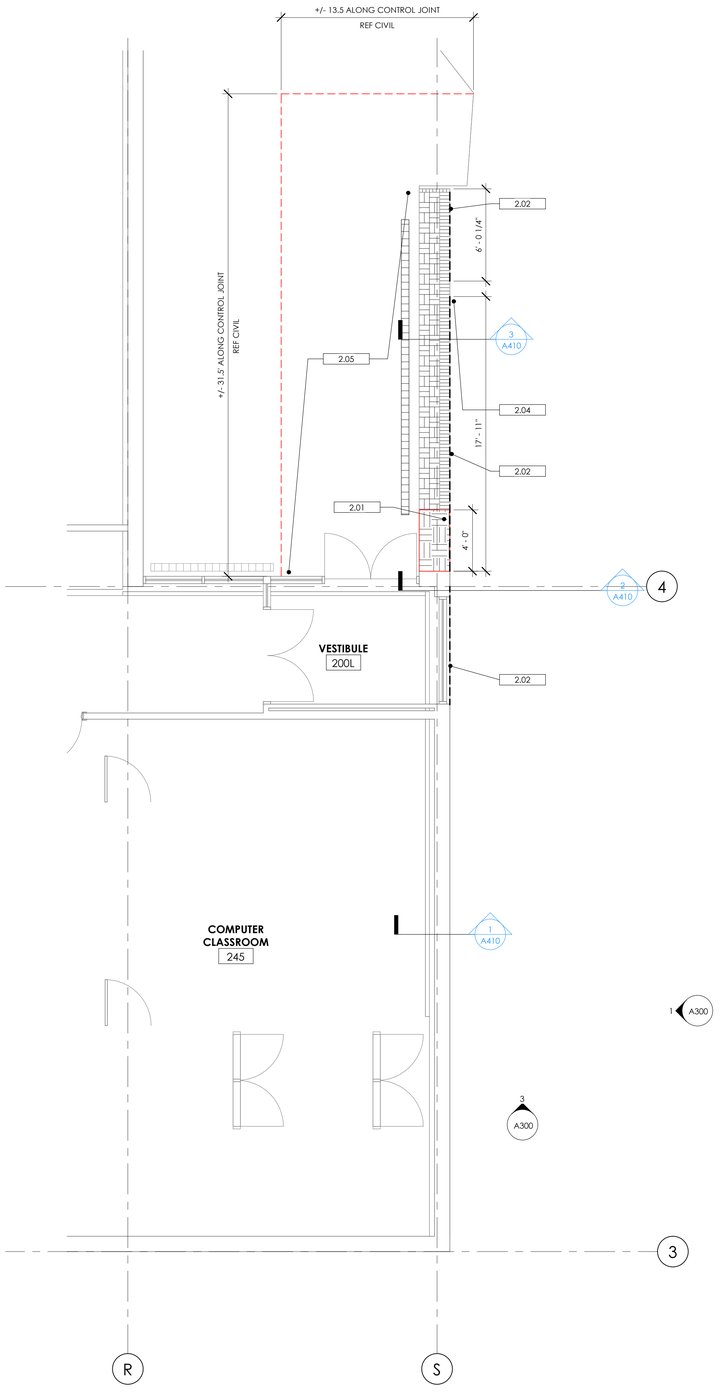
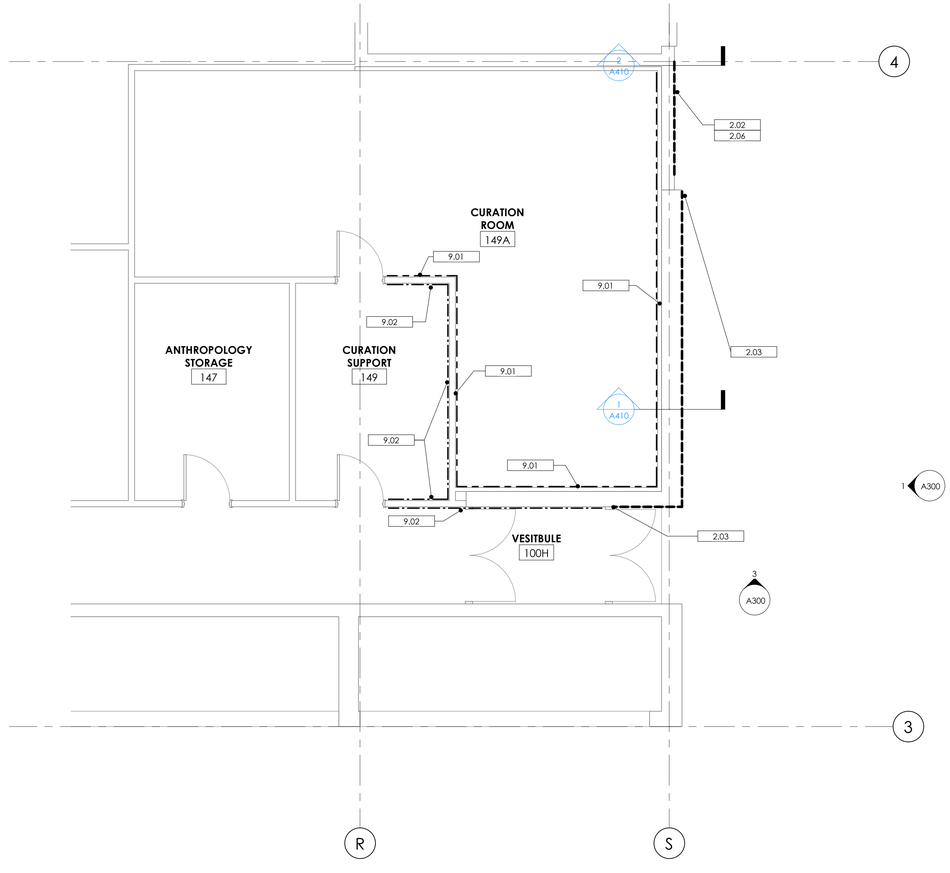


2 SECOND FLOOR PLAN
1/4" = 1'-0"



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

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SHEET TITLE: 1ST FLOOR PLAN		
DATE: 2024.11.13	SCALE: As indicated	PRJCT 202416

A201

LEGEND - KEYNOTES

2.01	REMOVE EXISTING BRICK TO EXTENTS SHOWN. PREP NEW BRICK TIES. REINSTALL BRICK TO MATCH EXISTING BONDING PATTERN. ALL BRICK SHOULD BE CHIP REMOVED, NOT CUT. SAVE, CLEAN, AND REINSTALL BRICK. TOOTH BRICK IN AS REQUIRE TO MATCH EXISTING BONDING.
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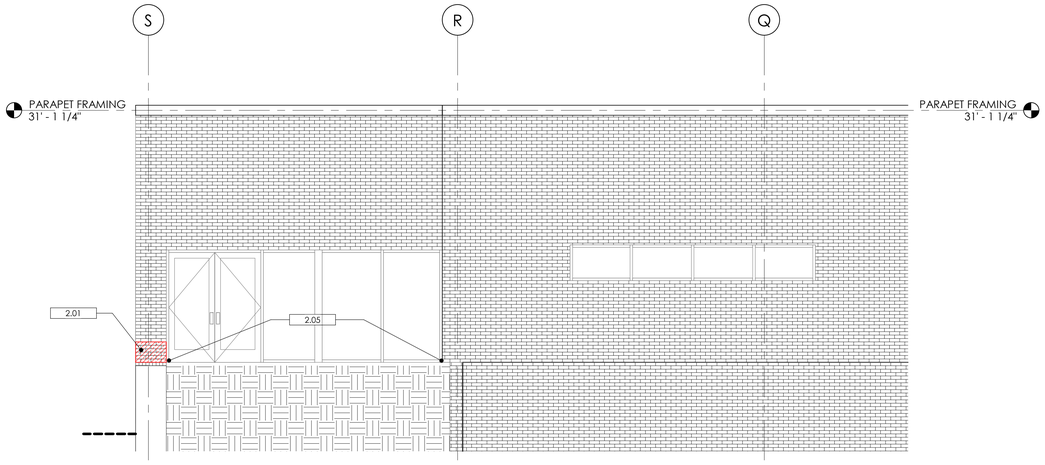
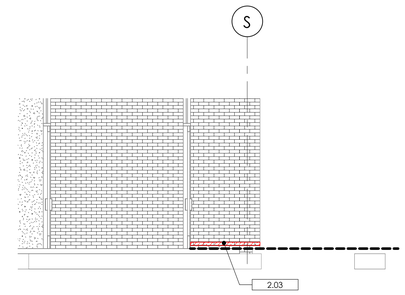
ELEVATION NOTES

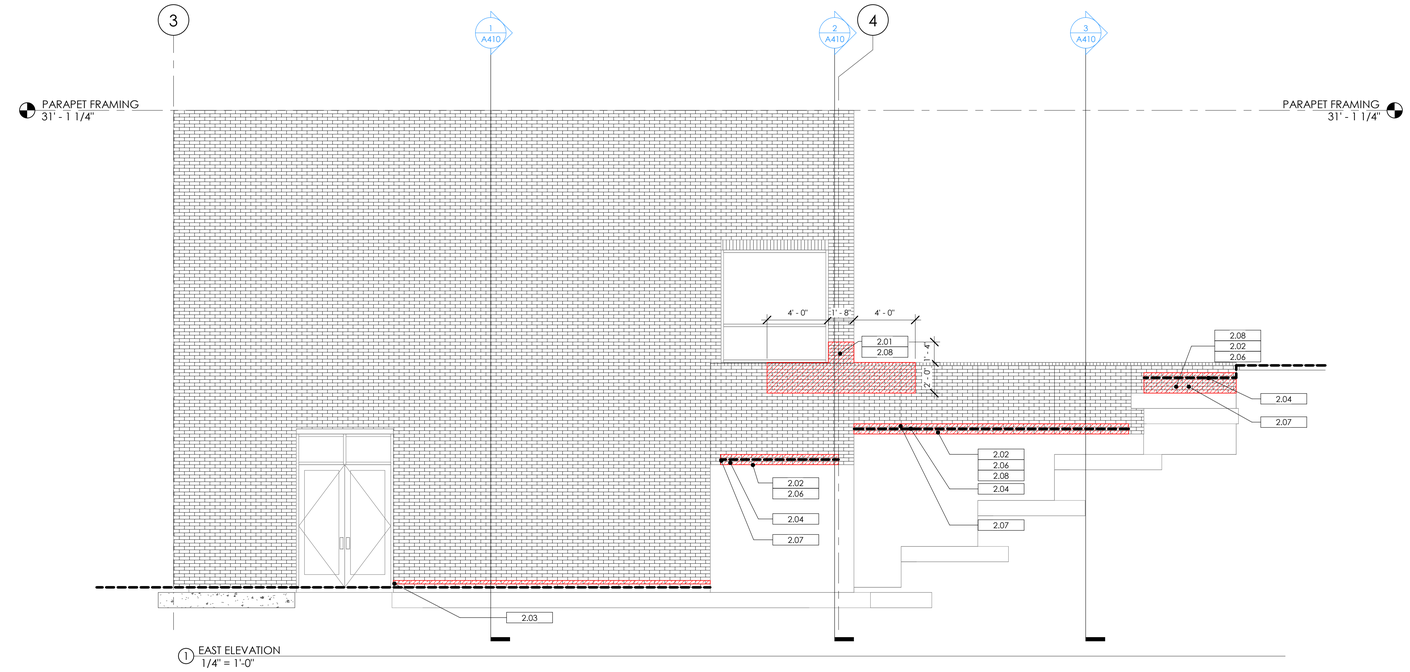
1. DIMENSIONS ARE TO FINISH FACE OF MATERIAL U.N.O.
2. NOTED ELEVATIONS ARE RELATIVE TO FIRST FLOOR
3. REFER TO MATERIAL LEGEND FOR FINISHES



② NORTH ELEVATION
1/4" = 1'-0"



③ SOUTH ELEVATION
1/4" = 1'-0"



① EAST ELEVATION
1/4" = 1'-0"

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SHEET TITLE: ELEVATIONS		
DATE: 2024.11.13	SCALE: As indicated	PRJCT 202416

A300

LEGEND - KEYNOTES

2.01	REMOVE EXISTING BRICK TO EXTENTS SHOWN. PREP NEW BRICK TIES. REINSTALL BRICK TO MATCH EXISTING BONDING PATTERN. ALL BRICK SHOULD BE CHIP REMOVED, NOT CUT. SAVE, CLEAN, AND REINSTALL BRICK. TOOTH BRICK IN AS REQUIRE TO MATCH EXISTING BONDING.
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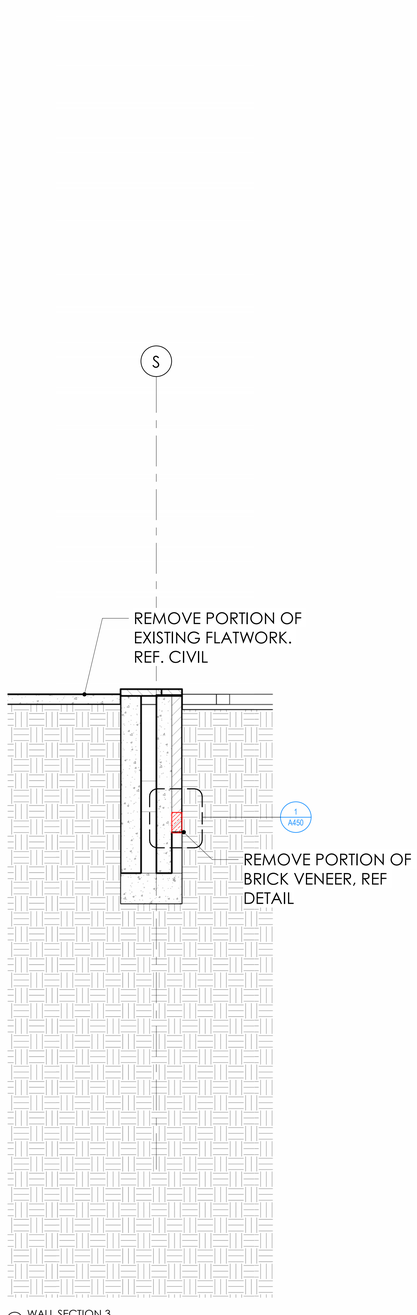
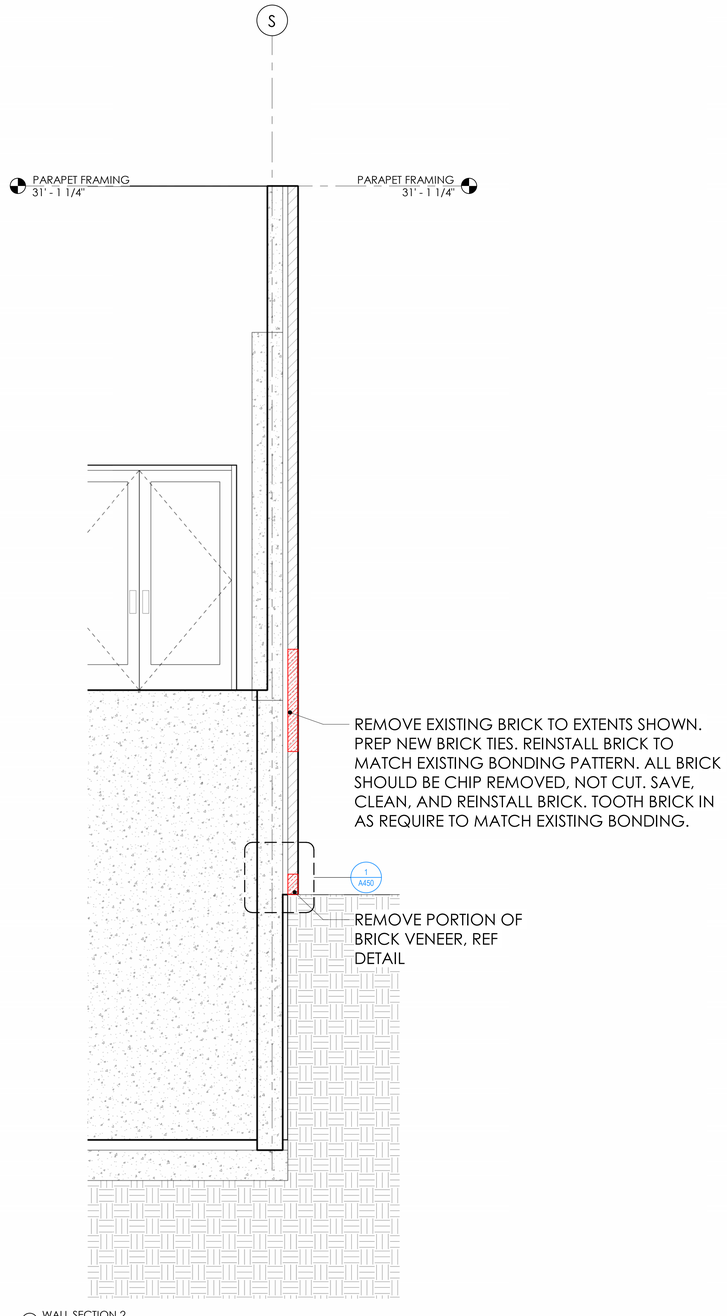
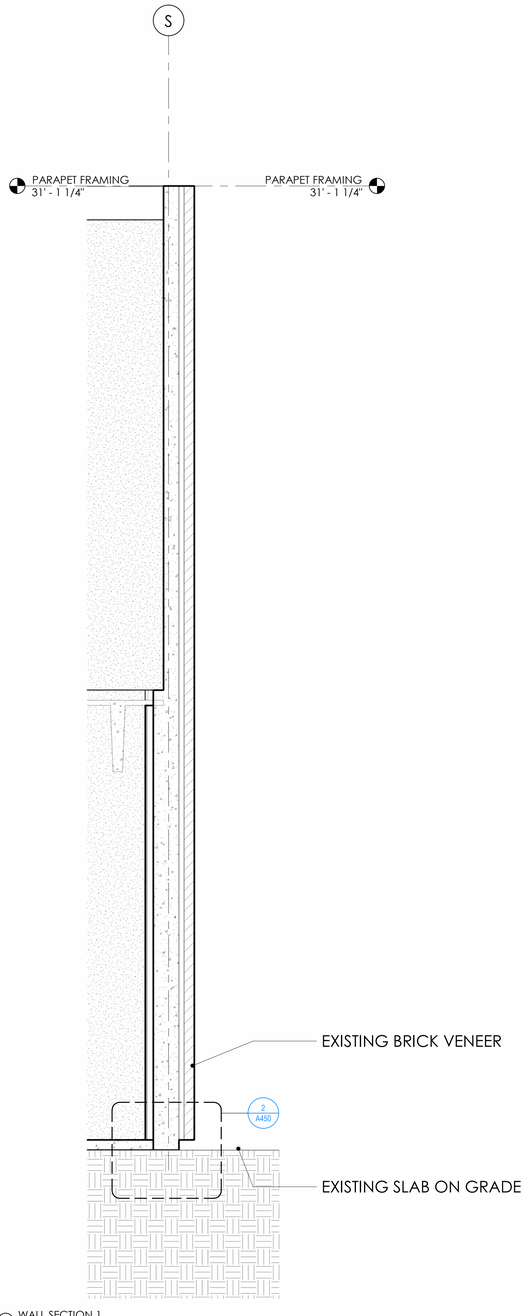


③ WALL SECTION 3
1/2" = 1'-0"



② WALL SECTION 2
1/2" = 1'-0"



① WALL SECTION 1
1/2" = 1'-0"

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STATE OF COLORADO LICENSED ARCHITECT
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ARC.00404082
2024.11.13

KL&A Engineers & Builders
COMPASS ARCHITECTURE

SHEET TITLE: WALL SECTIONS
DATE: 2024.11.13 | SCALE: 1/2" = 1'-0" | PRJCT 202416

A410

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WATER INFILTRATION - CENTENNIAL HALL

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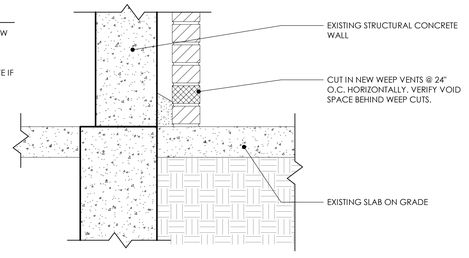
DESCRIPTION	DATE

LINTEL INSTALLATION NOTES

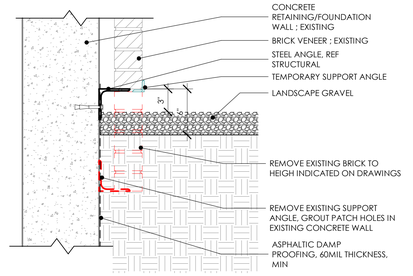
1. AT LOCATIONS SHOWN ON ELEVATION, SAW CUT NEW WEEP HOLES
2. VERIFY VOID SPACE BEHIND WEEP CUT. ANCILLARY SPACE MAY BE FILLED WITH MORTAR DROP FROM ORIGINAL BRICK WORK. CUT AT NEXT COARSE ABOVE IF NECESSARY
3. INSTALL INSECT RESISTANT PLASTIC FORMED WEEPS



② Brick - New Weeps
1 1/2" = 1'-0"

LINTEL INSTALLATION NOTES

1. PULL BACK EXISTING LANDSCAPE DIRT AND GRAVEL PROTECT FROM MOISTURE COLLECTION AND SAVE FOR REUSE.
2. SAW CUT MORTAR JOINT AT HEIGHT SHOWN ON ELEVATIONS
3. SET TEMPORARY SUPPORT ANGLE IN LENGTHS THAT CAN STILL BE SUPPORTED ON EACH END.
4. REMOVE BRICK AND SUPPORT ANGLE BELOW TEMPORARY SUPPORT ANGLE
5. INSTALL DAMP PROOFING TO TWO FEET BELOW GRADE
6. INSTALL NEW STEEL ANGLE
7. REMOVE TEMPORARY SUPPORT ANGLE
8. REFILL LANDSCAPE DIRT TO 6 INCHES BELOW BRICK
9. INSTALL NEW GEOTEXTILE FABRIC, 2 LAYERS, TO LAP WITH EXISTING
10. REFILL LANDSCAPE GRAVEL TO 3 INCHES BELOW BRICK



① Brick - New Lintel 1
1 1/2" = 1'-0"

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2024.11.13

SHEET TITLE: SECTION DETAILS		
DATE: 2024.11.13	SCALE: 1 1/2" = 1'-0"	PRJCT 202416

A450

PROJECT DESCRIPTION

1. Project consists of the mitigation of persistent water intrustion across two levels at the east end of the existing buiilsing. The existing foundation consist of shallow spread footings and foundtaion walls. The superstructure is precast concrete and lateral systems are concrete shear walls.
2. Specialty systems include temporary retaining and shoring systems, both to be designed by specialty engineers/contractors.
3. This description is for general orientation only. The General Contractor is responsible for all scope items described in the drawings and project specifications as well as for all material and labor that can reasonably be inferred there from.

GENERAL APPLICATION

1. These drawings must be used in conjunction with the architectural drawings on the project to clearly define all requirements for construction.
2. No Contractor should attempt to bid nor construct any portion of this project without consulting the project architectural, mechanical, and electrical documents.
3. All things which, in the opinion of the Contractor, appear to be deficiencies, omissions, contradictions, or ambiguities in the drawings shall be brought to the attention of the Structural Engineer. Corrections or written interpretations shall be issued before affected work may proceed.
4. The Contractor shall inform the Structural Engineer, clearly and explicitly in writing of any deviation or substitution from requirements of the contract documents. Contractor shall not be relieved of any requirement of the contract documents by virtue of the Structural Engineer's review of shop drawings, project data, etc., unless the Contractor has clearly and explicitly informed the Structural Engineer in writing of any deviations or substitutions at time of submission.

EXISTING CONSTRUCTION

1. Information regarding existing structural systems is based on Original Construction drawings prepared by Everett, Zeigel, Tumpes & Hand dated 01/29/1979, Rennovation drawings prepared by Anderson Mason Dale dated 7/10/2009, and on site observations on 10/17/2025 by KL&A personnel.
2. Existing Conditions:
   A. The current design is based on limited information and limited visual observation. All conditions are to be verified in the field prior to construction of associated structural elements or modification to existing structural elements. The contractor shall immediately notify structural engineer if any existing conditions deviate from those indicated in the construction documents
   B. During construction, the Contractor may encounter existing conditions which are not known or different than depicted in the Construction Documents. Contractor shall notify the architect and engineer of all such conditions. Examples of differences include structure member sizes, dimensions, damaged or deterioration to structural elements, conditions of instability or lack of support, etc.
   C. The Contractor shall make schedule and budget allowances for the resolutions of such discoveries.
3. Demolition and Shoring:
   A. The General Contractor is responsible for shoring of existing structure where required during demolition and new construction.
   B. The General Contractor should be prepared to brace and shore existing construction during demolition.
4. No openings, nor any changes or additions, shall be made in any existing structural elements without written approval of the Structural Engineer. Where the function of an existing element as structural or non-structural is unclear, the determination of its function will be made solely by the Structural Engineer.

SPECIFICATIONS

1. These General Notes are intended to function as the structural portion of project specifications.

STRUCTURAL STEEL

GENERAL:

1. All structural steel work shall conform to AISC 360 and tolerances shall conform to AISC 303 unless noted otherwise. Contractor shall keep a copy of these references on site at all times.
2. Materials – See Steel Materials Table
3. Qualifications - Fabricator and Erector shall be experienced in fabrication and erection of projects of similar size and complexity.

TESTING:

1. Tests and inspections shall be performed in compliance with AISC 360 and Chapter 17 of the IBC. Inspections include: Welding, high strength bolting, anchor rod placement, proper use of joint details, fabricated steel, and erected steel frame. Testing includes: UT of full penetration welds, bolt tensioning procedures, shear stud bend tests.
2. See "Special Inspections and Testing" Table.

SUBMITTALS:

1. Submittals shall conform to AISC 360.
2. Submittals for structural steel shall include erection drawings, shop drawings, and mill test reports.
3. Erection drawings shall include plan drawings at 1/8"=1'-0" minimum scale complete with sections, elevations, and details as required to properly erect the structural steel frame.
4. Shop drawings shall include piece drawings which indicate cuts, connections, camber, holes, welds and dimensions as required for fabrication of the members. Part drawings are not required to be submitted unless specifically requested.

CONNECTIONS:

1. Engineer of Record (EOR) has designed all connections. If a connection design is inadvertently omitted from contract documents the contractor shall request specific connection design from the EOR.

BOLTS:

1. Where bolts are subject to non-static loading, are utilized to interconnect parts of a built up compression member, or all Group B fasteners loaded in tension shall be installed to the fully tensioned condition.
2. Bolts not subject to the requirements for slip critical connections and not required to be fully tensioned may be installed to the snug-tight condition.
3. A307 bolts may be used only where indicated.

WELDS:

1. Fillet Welds: Size as indicated, but not less than AISC minimum size.
2. Welds are continuous unless noted otherwise.

SHOP CLEANING AND PAINTING:

1. Primed Steel: Steel indicated to painted, with no specific paint requirements stated, shall have the surface prepared per SSPC-SP2 minimum and receive one coat of fabricator's standard rust-inhibitive primer paint applied to a minimum dry-film thickness of 1 mil.
2. Galvanized Steel: Steel indicated to be galvanized shall be cleaned, prepared, and galvanized in accordance with ASTM A123. Repair minor defects, damaged areas, and welded joints in accordance with ASTM A780.

ERECTION:

1. No final bolting or welding shall be performed until as much of the structure which will be stiffened thereby has been properly aligned.
2. Field correction of fabrication or other errors will be permitted only when approved by the EOR. Finish gas-cut sections in accordance with AWS D1.1.

STRUCTURAL DESIGN CRITERIA

Building Code: 2021 International Existing Building Code (Note 1)	
Local Jurisdiction: Colorado Office of the State Architect (OSA)	
Risk Category: III	
IEBC Alteration Level: Prescriptive Compliance method for Existing Buildings	
Change of Occupancy: No	
Historic Designation: No	
Wind Loading	
Basic Wind Speed	Vult= 135 MPH
Exposure Category	B
GCpi	+/-0.18
Ground Elevation Factor, Ke	0.79
Elevation used for Ke (feet above sea level)	6,400 ft
Seismic Loading	
Seismic Importance Factor, Ie	1.25
Mapped Spectral Response Acceleration	
Ss	0.205
S_1	0.058
Site Class	D (Default)
Spectral Response Coefficients	
Sds	0.218
S_{d1}	0.093
Seismic Design Category	B
Snow Loading	(Notes 2,3)
Ground Snow Load, Pg	43 psf
Minimum Flat Roof Snow Load, Pf	33 psf
Importance Factor, Is	1.10
Surface Roughness Category	B
Exposure Factor, Ce	1.0
Thermal Factor, Ct	1.0
Slope Factor, Cs	1.0
Live Loads and Superimposed Dead Loads	(Notes 4)
Foundations	
Geotechnical Engineer Information:	No geotech report. Reference presumptive load bearing values...
	Address Line 2
Allowable Bearing Capacity	1,500 psf
Minimum Frost Depth	30 in

NOTES:

1. The governing building code defines the applicable edition of referenced codes and standards. Where governing building code does not define referenced codes and...
2. Ground snow load is according to the Pikes Peak Regional Building Department.
3. All snow loads on the structure for both flat and sloped roofs shall be calculated in accordance with the 2021 IBC and based on the ground snow load stated above. Roof snow loads shall consider the following load conditions: partial loading, unbalanced...
4. Minimum uniform and concentrated live loads as well as partition loads and applicable live load reductions are determined according to Section 1607 of the IBC.

STEEL MATERIALS DESIGNATION

Material	Standard
W and WT Sections	ASTM A992 (50ksi) or ASTM A572 Gr. 50 (50ksi)
M, S, C, MC, L, MT, ST Sections	ASTM A36 (36ksi)
Plates and Bars - typical - when noted as 50ksi	ASTM A36 (36ksi) ASTM A572 Gr. 50 (50ksi)
Anchor Rods	ASTM F1554 Gr. 55 w/ Supplement S1
Bolts - typical (Group A) - where noted as Group B - where indicated as A307	ASTM F3125 Grade A325 or F1852 ASTM F3125 Grade A490 or F2280 ASTM A307 Gr. A
Nuts	ASTM A563, Heavy Hex
Washers	ASTM F436, except plate washers to be ASTM A36
All Threaded Rod and Threaded Studs, UNO	ASTM A36
High Strength Threaded Studs	ASTM A29 or A572
Weld Electrodes	E70 (70ksi)

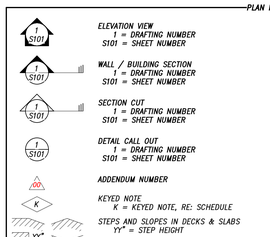
BOLT GRADES

Standard	Bolt Size, Joint Type and Designation on Drawings
3/4"ø Bolt, ASTM F3125 Grade A325 or F1852	3/4"ø A325 Bolt
1/2"ø or 3/4"ø Bolt, ASTM A307 Gr. A	1/2"ø or 3/4"ø A307 Bolt

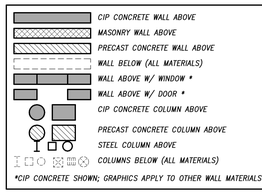
NOTES:

1. Reference plan, details, and connection tables for bolt size and joint type.
2. All bolts are snug tight, unless indicated on plan or details as slip critical or fully tensioned.
3. Holes may be short slotted transverse to applied load, unless plans, details, or connection tables indicate a standard or oversize hole.
4. Bolted connections to follow all requirements indicated in the Specification for Structural Joints Using High Strength Bolts (RCSC).

PLAN KEYS AND SYMBOLS

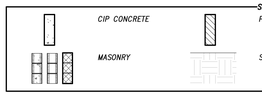


WALLS AND COLUMNS



*CIP CONCRETE SHOWN; GRAPHICS APPLY TO OTHER WALL MATERIALS

SECTIONS AND DETAILS



STATEMENT OF SPECIAL INSPECTIONS IBC 2021

Definitions:

1. Special Inspection: Inspection of construction requiring the expertise of an approved special inspector in order to ensure compliance with this code and the approved construction documents.

2. Continuous Special Inspection: Special Inspection by the special inspector who is present continuously when and where the work to be inspected is being performed.

3. Periodic Special Inspection: Special inspection by the special inspector who is intermittently present where the work to be inspected has been or is being performed.

4. Special Inspector: A qualified person employed or retained by an approved agency a...

STRUCTURAL STEEL SPECIAL INSPECTIONS

Definitions as Defined by AISC 360
QA: Indicates inspection tasks shall be performed by the quality assurance inspector (QAI)
QC: Indicates inspection tasks shall be performed by the fabricator's or erector's quality control inspector (QCI), as applicable.
Observe (O): Indicates the inspector observe these items on a random basis. Operations need not be delayed pending...

Notes:
1. All special inspections conform to the AISC 360 Specification, Chapter N
2. The fabricator and erector shall establish, maintain and implement QC procedures to ensure that their work is performed in accordance with the AISC 360 Specifications and the Construction documents. This shall include Material Identification, Fabricator Quality Control Procedures and Erector Quality Control Procedures as defined by Section N2 of AISC 360.
3. All non destructive testing (NDT) requirements defined by AISC Section N5 shall apply. NDT shall be performed on CJP groove welds 5/16" or greater in thickness....

Special Inspection of Structural Steel Items			
Inspection Task or Testing	Inspection Type QC	Inspection Type QA	Criteria/Remarks
Galvanized Members	O	P	AISC 360 Table N5.7
Special Inspection - Prior to Welding			
Inspection Task or Testing	Inspection Type QC	Inspection Type QA	Criteria/Remarks
Welder qualification records and continuity records	P	O	AISC 360 Table N5.4-1
Welding procedure specifications (WPS) available	P	P	AISC 360 Table N5.4-1
Manufacturer certifications for welding consumables available	P	P	AISC 360 Table N5.4-1
Material identification (type/grade)	O	O	AISC 360 Table N5.4-1
Welder identification system	O	O	AISC 360 Table N5.4-1
Fit-up of groove welds (including joint geometry): a. Joint preparation b. Dimensions (alignment, root opening, root face, bevel) c. Cleanliness (condition of steel surfaces) d. Tracking (tack weld...	O	O	AISC 360 Table N5.4-1
Fit-up of fillet welds a. Dimensions (alignment, gaps at root) b. Cleanliness (condition of steel surfaces) c. Tacking (tack weld quality and location).	O	O	AISC 360 Table N5.4-1
Check welding equipment	O	-	
Special Inspection - During Welding			
Control and handling of welding consumables a. Packaging b. Exposure control	O	O	AISC 360 Table N5.4-2
No welding over cracked tack welds	O	O	AISC 360 Table N5.4-2
Environmental conditions a. Wind speed within limits b. Precipitation and temperature	O	O	AISC 360 Table N5.4-2
WPS followed a. Settings on welding equipment b. Travel speed c. Selected welding materials d. Shielding gas type/flow rate e. Preheat applied f. Interpass...	O	O	AISC 360 Table N5.4-2
Welding techniques a. Interpass and final cleaning b. Each pass within profile limitations...	O	O	AISC 360 Table N5.4-2
Placement and installation of steel headed stud anchors	P	P	AISC 360 Table N5.4-2
Special Inspection - After Welding			
Welds cleaned	O	O	AISC 360 Table N5.4-3
Size, length and location of welds	P	P	AISC 360 Table N5.4-3
Welds meet visual acceptance criteria a. Crack prohibition b. Weld/base-metal fusion c. Crater cross section...	P	P	AISC 360 Table N5.4-3
Arc strikes	P	P	AISC 360 Table N5.4-3
k-area	P	P	AISC 360 Table N5.4-3
Repair activities	P	P	AISC 360 Table N5.4-3
Document acceptance or rejection of welded joint or member	P	P	AISC 360 Table N5.4-3
No prohibited welds have been added without the approval of the EOR	O	O	AISC 360 Table N5.4-3
Special Inspection - Prior to Bolting			
Manufacturer's certifications available for fastener materials	O	P	AISC Table N5.6-1
Fasteners marked in accordance with ASTM requirements	O	O	AISC Table N5.6-1
Correct fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	O	O	AISC Table N5.6-1
Correct bolting procedure selected for joint detail	O	O	AISC Table N5.6-1
Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	O	O	AISC Table N5.6-1
Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used	P	O	AISC Table N5.6-1
Protected storage provided for bolts, nuts, washers and other fastener components	O	O	AISC Table N5.6-1
Special Inspection - During Bolting			
Fastener assemblies placed in all holes and washers and nuts are positioned as required	O	O	AISC Table N5.6-2
Joint brought to the snug-tight condition prior to the pretensioning operation	O	O	AISC Table N5.6-2
Fastener component not turned by the wrench prevented from rotating	O	O	AISC Table N5.6-2
Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free...	O	O	AISC Table N5.6-2
Special Inspection - After Bolting			
Document acceptance or rejection of bolted connections	P	P	AISC Table N5.6-3

ABBREVIATIONS

R/C	reinforced concrete
ADDNL	additional
ALT	alternate
ARCH	architectural
B, B/	bottom of
BLDG	building
BOT	bottom
BRG	bearing
BTWN	between
CIP	cast-in-place concrete
CJ	construction / control joint
CLR	clear
CONC	concrete
CONN	connection
CONST	construction
CONT	continuous
DIA, ϕ	diameter
DIM	dimension
DTL	detail
DWGS	drawings
DWL	dowel
(E)	existing construction
EA	each
EW	each way
EXP	expansion
EXT	exterior
FDN	foundation
FLR	floor
GC	general contractor
HDG	hot dip galvanized
HORIZ	horizontal
INT	interior
JT	joint
LLH	long leg horizontal
LLV	long leg vertical
MAS	masonry
MAX	maximum
MFR	manufacturer
MIN	minimum
MTL	metal
(N)	new construction
OC	on center
OPNG	opening
P/C	precast concrete
PERP	perpendicular
PL	plate
RE:	reference
REINF	reinforcement
REQD	required
RET	retaining
SOG	slab on grade
SPA	spacing
STL	steel
T, T/	top of
THK	thickness
TYP	typical
UNO	unless noted otherwise
VERT	vertical
VIF	verify in field
W	width

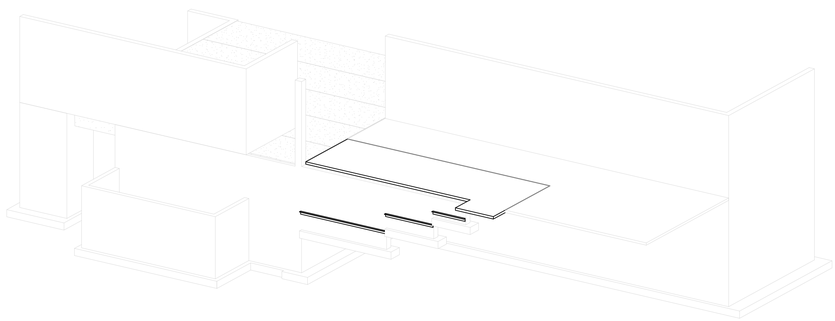
SHEET LABEL KEY

STRUCTURAL DRAWING SHEET
SHEET NUMBER
000 SERIES = GEN NOTES
200 SERIES = AREA PLANS
400 SERIES = DETAILS

SNNN

NEW SHEET = ◌ REVISED DRAWING = ◗
NO MODIFICATIONS = ● SHEET DELETED = ⊠

SHEET NO.	SHEET NAME	ISSUE DATE AND TITLE: DRAFT BID SET 10/25/24	ISSUE DATE AND TITLE: CD'S 11/8/2024
S000	GENERAL NOTES	◌	◗
S200	PLAN VIEW	◌	◗
S400	DETAILS	◌	◗



3D IMAGE IS FOR CISUALIZATION ONLY. REFER TO PLANS AND DETAILS FOR SPECIFIC INFORMATION.

REVISIONS

DESCRIPTION	DATE
DRAFT BID SET	10/25/2024
CD'S	11/8/2024

Andy Paddock
Digitally signed by Andy Paddock
DN: C=US, E=apaddock@klaa.com, OU=KL&A, CN=Andy Paddock
Reason: I have reviewed this document
Date: 2024.11.13 16:40:06-07'00'

KL&A Engineers & Builders
COLORADO LICENSED 37607 PROFESSIONAL ENGINEER 11/8/24
COMPASS ARCHITECTURE

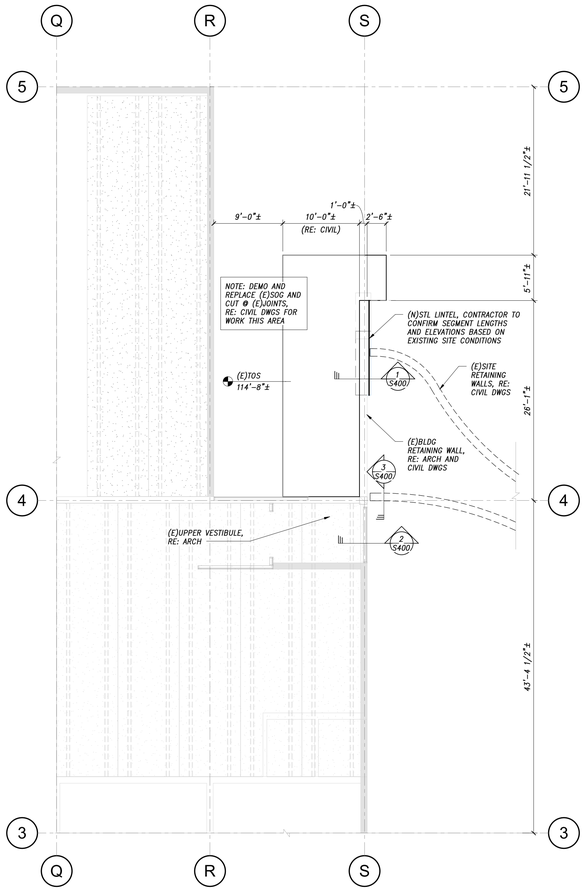
SHEET TITLE: GENERAL NOTES
DATE: 11/8/2024 | SCALE: As indicated | PROJECT # EM2501

S000

UCCS University of Colorado Colorado Springs

WATER INFILTRATION - CENTENNIAL HALL

UNIVERSITY OF COLORADO COLORADO SPRINGS
1420 Austin Bluffs Pkwy
Colorado Springs, CO 80918

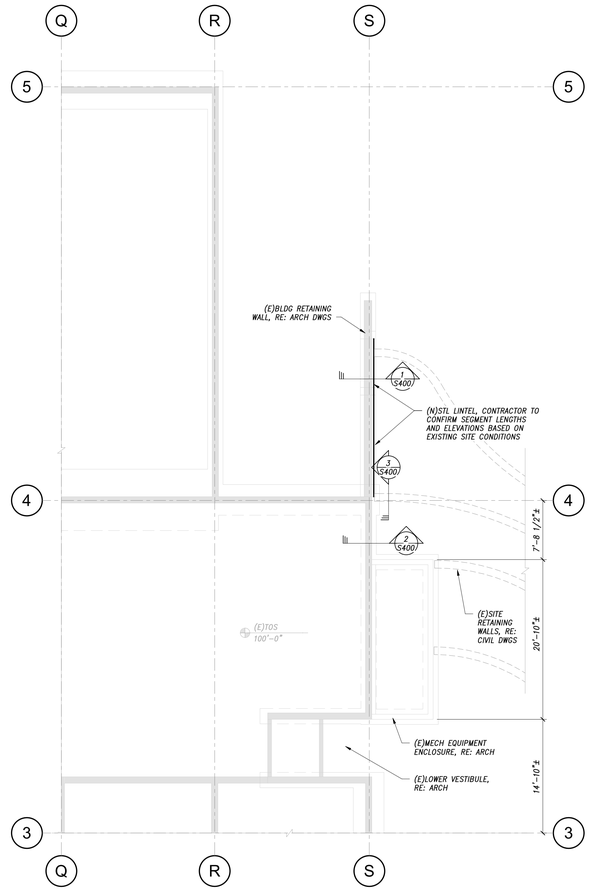


1 S200 PARTIAL FLOOR FRAMING PLAN

1/8" = 1'-0"

EXISTING FLOOR FRAMING PLAN NOTES:

1. EXISTING FLOOR FRAMING IS P/C CONCRETE DOUBLE TEES BASED ON ORIGINAL CONSTRUCTION DRAWINGS.
2. RE: ARCH AND CIVIL FOR PENETRATIONS NOT SHOWN ON STRUCTURAL PLANS.
3. PRIOR TO DETAILING AND FABRICATION, VERIFY ALL ELEVATIONS AND DIMENSIONS WITH ARCHITECTURAL AND CIVIL PLANS.
4. EXISTING CONSTRUCTION IS DENOTED WITH (E) OR AS EXISTING AND NEW CONSTRUCTION IS DEOTED WITH (N) OR AS NEW.
5. CONTRACTOR SHALL COORDINATE WORK BETWEEN STRUCTURAL, ARCHITECTURAL, AND CIVIL DISCIPLINES.
6. GENERAL CONTRACTOR TO FIELD VERIFY ALL EXISTING INFORMATION PRIOR TO CONSTRUCTION AND FABRICATION.
7. THESE DRAWINGS PROVIDE INFORMATION FOR THE EXISTING STRUCTURAL SYSTEMS BASED ON INFORMATION PROVIDED BY OTHERS. ANY EXISTING STRUCTURAL ELEMENT OR CONDITION THAT DEVIATES FROM WHAT IS PROVIDED SHALL BE PROVIDED BY GENERAL CONTRACTOR TO ENGINEER FOR STRUCTURAL REVIEW.
8. RE: GENERAL NOTES FOR ADDITIONAL INFORMATION REGARDING EXISTING CONDITIONS, DEMOLITION, AND SHORING.
9. IN SLOPING AREAS, SLOPE TOP AND BOTTOM OF SLAB TO MAINTAIN SLAB THICKNESS, UNO.
10. DRAIN LOCATIONS IN SLAB ARE SHOWN FOR REFERENCE ONLY. RE: ARCH AND CIVIL FOR FINAL LOCATIONS.
11. RE: SHEET S000 FOR GENERAL NOTES AND LEGENDS

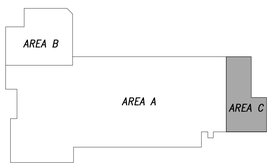


2 S200 PARTIAL FOUNDATION PLAN

1/8" = 1'-0"

EXISTING FOUNDATION PLAN NOTES:

1. EXISTING FOUNDATIONS ARE ASSUMED TO BE SHALLOW R/C SPREAD FOOTINGS AND STEM/BASEMENT WALLS BASED ON ORIGINAL CONSTRUTION DRAWINGS.
2. EXISTING FOUNDATIONS ARE ASSUMED TO BEAR A MINIMUM OF 30" BELOW GRADE. CONTRACTOR TO FIELD VERIFY.
3. EXISTING CONSTRUCTION IS DENOTED WITH (E) OR AS EXISTING AND NEW CONSTRUCTION IS DEOTED WITH (N) OR AS NEW.
4. CONTRACTOR SHALL COORDINATE WORK BETWEEN STRUCTURAL, ARCHITECTURAL, AND CIVIL DISCIPLINES.
5. GENERAL CONTRACTOR TO FIELD VERIFY ALL EXISTING INFORMATION PRIOR TO CONSTRUCTION AND FABRICATION.
6. THESE DRAWINGS PROVIDE INFORMATION FOR THE EXISTING STRUCTURAL SYSTEMS BASED ON INFORMATION PROVIDED BY OTHERS. ANY EXISTING STRUCTURAL ELEMENT OR CONDITION THAT DEVIATES FROM WHAT IS PROVIDED SHALL BE PROVIDED BY GENERAL CONTRACTOR TO ENGINEER FOR STRUCTURAL REVIEW.
7. RE: GENERAL NOTES FOR ADDITIONAL INFORMATION REGARDING EXISTING CONDITIONS, DEMOLITION, AND SHORING.
8. IN SLOPING AREAS, SLOPE TOP AND BOTTOM OF SLAB TO MAINTAIN SLAB THICKNESS, UNO.
9. TOP OF BRICK LEDGE, RE: ARCH.
10. DRAIN LOCATIONS IN SLAB ARE SHOWN FOR REFERENCE ONLY. RE: ARCH AND CIVIL FOR FINAL LOCATIONS.
11. RE: SHEET S000 FOR GENERAL NOTES AND LEGENDS



KEY PLAN

REVISIONS

DESCRIPTION	DATE
DRAFT BID SET	10/25/2024
CD'S	11/8/2024

UCCS
University of Colorado Colorado Springs

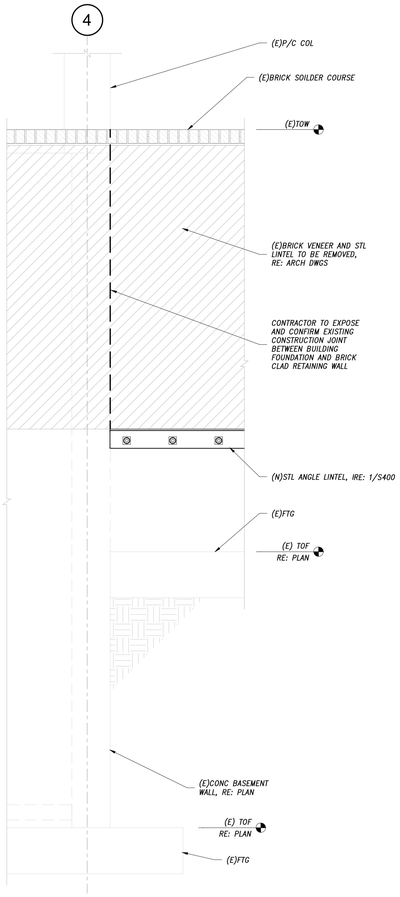
WATER INFILTRATION - CENTENNIAL HALL

UNIVERSITY OF COLORADO COLORADO SPRINGS
1420 Austin Bluffs Pkwy
Colorado Springs, CO 80918

KL&A Engineers & Builders
COMPASS ARCHITECTURE
COLORADO LICENSED 37607 PROFESSIONAL ENGINEER
11/8/24

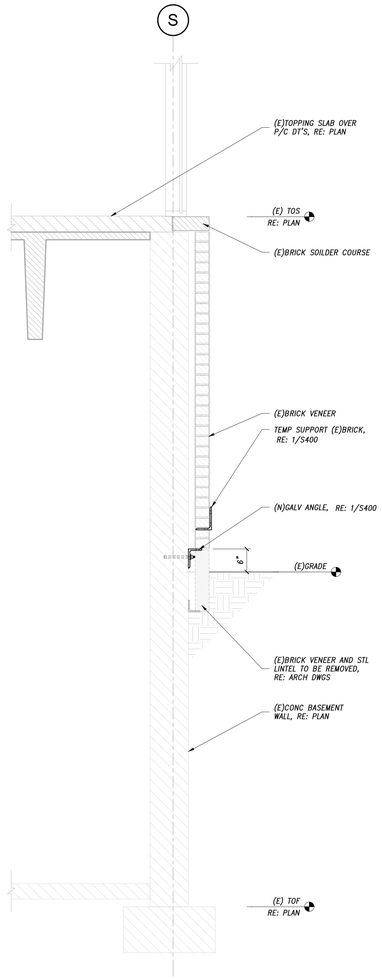
SHEET TITLE: PLAN VIEW		
DATE: 11/8/2024	SCALE: As indicated	PROJECT # EM2501

S200



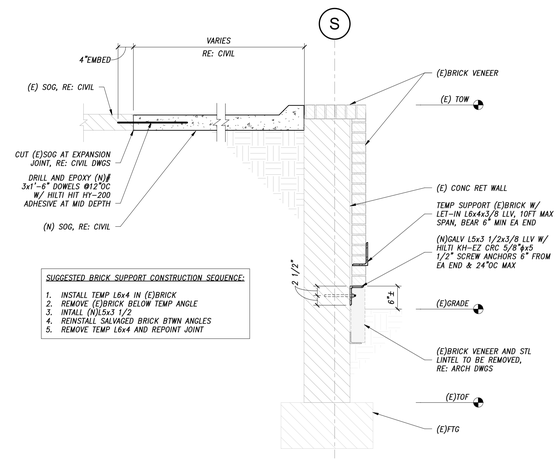
3 S400 **(E)RETAINING WALL DETAIL**

3/4" = 1'-0"



2 S400 **FOUNDATION WALL SECTION**

3/4" = 1'-0"



1 S400 **(E)RETAINING WALL SECTION**

3/4" = 1'-0"

REVISIONS

DESCRIPTION	DATE
DRAFT BID SET	10/25/2024
CD'S	11/8/2024

University of Colorado
Colorado Springs

WATER INFILTRATION - CENTENNIAL HALL

UNIVERSITY OF COLORADO COLORADO SPRINGS
1420 Austin Bluffs Pkwy
Colorado Springs, CO 80918

KL&A Engineers & Builders

COLORADO LICENSED 37607 PROFESSIONAL ENGINEER 11/8/24

COMPASS ARCHITECTURE

SHEET TITLE: DETAILS		
DATE: 11/8/2024	SCALE: 3/4" = 1'-0"	PROJECT # EM2501

S400

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL ADHERE TO THE *GENERAL PROVISIONS STANDARD SPECIFICATIONS* FOR THE CITY OF COLORADO SPRINGS AND ALL OTHER LOCAL, STATE, AND FEDERAL STANDARDS.
2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COMPLETING THE WORK.
3. THE CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS TO PROTECT AND MAINTAIN EXISTING SITE FEATURES. EXISTING SITE FEATURES TO BE REMOVED OR REPLACED SHALL BE PROTECTED AND SHALL MAINTAIN FUNCTIONALITY DURING CONSTRUCTION EFFORTS UNTIL REMOVAL OR REPLACEMENT IS NECESSARY.
4. THE CONTRACTOR SHALL NOT TAKE ADVANTAGE OF AN APPARENT ERROR OR OMISSION ON THE PLANS OR SPECIFICATIONS. IN THE EVENT THE CONTRACTOR DISCOVERS ANY APPARENT ERROR OR DISCREPANCY, THEY SHALL IMMEDIATELY CONTACT THE ENGINEER.
5. NO WORK SHALL BE BURIED NOR CONCEALED PRIOR TO BEING INSPECTED AND ACCEPTED BY KL&A, INC., OR ACCEPTED SUBCONSULTANT. CONTRACTOR SHALL COORDINATE INSPECTION SCHEDULE WITH KL&A, INC., PROVIDING AT LEAST 72 HOURS NOTICE.
6. CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF CONSTRUCTION WASTE. SUCH EFFORTS SHALL ADHERE TO THE CITY OF COLORADO SPRINGS, EL PASO COUNTY, AND COLORADO DEPARTMENT OF TRANSPORTATION REQUIREMENTS FOR REMOVAL, TRANSPORTATION, AND DISPOSAL OF MATERIAL FROM THE SITE.
7. ALL SAW CUTS IN EXISTING HARD SURFACES SHALL BE A NEAT LINE. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE NEAT LINE OF ALL SAW CUTS UNTIL THE PLACEMENT OF THE NEW HARD SURFACE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR AND/OR REPLACE ANY SURFACES DAMAGED, INCLUDING SURFACES WHICH ARE SAW CUT.
9. CONTRACTOR SHALL INSTALL APPROVED TRAFFIC CONTROL DEVICES WHILE WORKING WITHIN ANY PUBLIC RIGHT OF WAY.
10. THE ORIGINAL SITE IS BASED ON A SURVEY USING A DIFFERENTIAL LEVEL AND RAG TAPE PERFORMED BY KL&A, INC. ON SEPTEMBER 30, 2024. AERIAL IMAGERY AND RECORD PLANS WERE USED TO DEFINE SITE FEATURES BEYOND THE AREA SURVEYED. CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF SITE FEATURES PRIOR TO PROCEEDING WITH THE WORK.
11. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND ELEVATION AT ALL AREAS WHERE MATCHING EXISTING CONDITIONS. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCOVERED HORIZONTAL OR VERTICAL DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK.
12. A TITLE COMMITMENT WAS NOT PERFORMED.
13. FLOOD INSURANCE RATE MAP 08041C0518F, WITH AN EFFECTIVE DATE OF MARCH 17, 1997, AS PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, CLASSIFIES THIS AREA AS ZONE X - AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN.
14. PLANS INCLUDE COLORED FEATURES. PLANS MUST BE PLOTTED IN COLOR TO ACCURATELY DEPICT THE INTENT OF THE ENGINEERED PLANS.

RIGHT OF WAY & EASEMENT NOTES:

1. CONTRACTOR SHALL ADHERE TO ALL LEGAL LOAD LIMITS ON STATE/FEDERAL HIGHWAYS, CITY STREETS, AND COUNTY ROADS.

SAFETY NOTES:

1. CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, AND SEQUENCING OF THE CONSTRUCTION OPERATIONS TO ENSURE CONSTRUCTION SITE SAFETY IS MAINTAINED AT ALL TIMES.
2. UNDER NO CIRCUMSTANCE SHOULD THE INFORMATION PROVIDED TO THE CONTRACTOR BE INTERPRETED TO MEAN THAT THE ENGINEER IS ASSUMING RESPONSIBILITY FOR CONSTRUCTION SITE SAFETY OR THE CONTRACTOR'S ACTIVITIES. SUCH RESPONSIBILITY IS NOT BEING IMPLIED AND SHALL NOT BE INFERRED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING AND CONSTRUCTING STABLE TEMPORARY EXCAVATIONS. THE CONTRACTOR SHALL SHORE, SLOPE, OR BENCH THE SIDES OF THE EXCAVATIONS AS REQUIRED TO MAINTAIN STABILITY OF BOTH THE SIDES AND BOTTOM OF THE EXCAVATION. ALL EXCAVATION SHALL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS, INCLUDING THE CURRENT OSHA EXCAVATION AND TRENCH SAFETY STANDARDS 29 CFR PART 1926.
4. THE CONTRACTOR SHALL CLEARLY MARK AND/OR BARRICADE ALL OBSTRUCTIONS, EXCAVATIONS, CONSTRUCTION MATERIALS, AND EQUIPMENT. THE CONTRACTOR SHALL HAVE A DESIGNATED REPRESENTATIVE TO CONTINUALLY MONITOR THE PROJECT SITE FOR SAFETY CONCERNS AND POTENTIAL HAZARDS.

GRADING NOTES:

1. CONTRACTOR SHALL NOT DISTURB BEYOND THE LIMITS OF DISTURBANCE (A.K.A. CONSTRUCTION LIMITS) DETAILED ON THE PLANS, UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER OR OWNER'S REPRESENTATIVE. AREAS DISTURBED BEYOND THE LIMITS OF DISTURBANCE SHALL BE RESTORED TO THEIR ORIGINAL GRADE AND CONDITION AT THE EXPENSE OF THE CONTRACTOR AND AT NO ADDITIONAL COST TO THE OWNER.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE WATER FOR DUST CONTROL AND COMPACTION.
3. CONTRACTOR SHALL PREPARE A STORM WATER POLLUTION AND PREVENTION PLAN (SWPPP) WHICH PROVIDES TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES. THE SWPPP SHALL PREVENT EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES, WALKWAYS, AND TRAFFIC ROUTES. THE SWPPP SHALL BE PERMITTED IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT RULES AND REGULATIONS PRIOR TO ANY EARTHWORK.
4. CRUSHED BASE AND SUBBASE MATERIALS SHALL BE CLASSIFIED AS:

SIEVE DESIGNATION	SUB-BASE CLASS 2	BASE COURSE CLASS 5	BASE COURSE CLASS 6
4"	100	--	--
3"	95 - 100%	--	--
1-1/2"	--	100%	--
1"	--	95 - 100%	--
3/4"	--	--	100%
#4	--	30 - 70%	30 - 65%
#8	--	--	25 - 55%
#200 AASHTO T-11	3 - 15%	3 - 15%	3 - 12%
LIQUID LIMIT AASHTO T-89	35 MAX	30 MAX	30 MAX
PLASTICITY INDEX AASHTO T-90	6 MAX	6 MAX	6 MAX

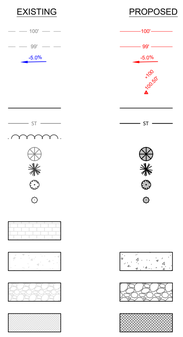
CONCRETE NOTES:

1. CONCRETE JOINTS SHALL BE CONSTRUCTED PER DETAIL 4 SHEET C102 FOR THE SITE CONCRETE.
2. CONTRACTOR SHALL INSTALL EXPANSION JOINT FILLER ADJACENT TO FOUNDATIONS, STAIRWAYS, RETAINING WALLS, OR OTHER PERMANENT FEATURES PER DETAIL 4 ON SHEET C102.
3. SITE CONCRETE WORK SHALL BE CITY EXTERIOR MIX CONCRETE MEETING THE MINIMUM REQUIREMENTS OF:
   - MIN. COMPRESSIVE STRENGTH (28 DAY): 4000 PSI
   - CEMENTITIOUS MATERIALS CONTENT: 564-705 LBS/YD
   - W/C MATERIALS RATIO (MAX): 0.45
   - SLUMP: 5 INCH MAX
   - AIR ENTRAINMENT: 5-8%

GENERAL UTILITY NOTES:

1. THE UNDERGROUND UTILITIES SHOWN ARE PER RECORD PLANS AND VISIBLE EVIDENCE. THE LOCATIONS FOR THE SHOWN UNDERGROUND UTILITIES ARE ONLY AS ACCURATE AS THE INFORMATION PROVIDED. ADDITIONAL ACTIVE AND/OR ABANDONED UTILITIES MAY EXIST.
2. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND DETERMINE THE EXACT LOCATION OF ALL UTILITIES PRIOR TO COMMENCEMENT OF WORK.
3. CONTRACTOR WILL BE REQUIRED TO HIRE A PRIVATE LOCATING SERVICE TO IDENTIFY LOCATIONS OF EXISTING UTILITIES NOT IDENTIFIED BY COLORADO 811 OR UTILITY COMPANIES.
4. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.
5. ALL UTILITIES ENCOUNTERED SHALL BE DETAILED ON THE "RED-LINE RECORD DRAWINGS" WHICH SHALL BE KEPT BY THE CONTRACTOR AND SHALL BE SUBMITTED WITH FIELD INSPECTION NOTES TO THE ENGINEER FOR PREPARATION OF THE FINAL RECORD DRAWINGS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR AND/OR REPLACE ANY UTILITY DAMAGED OR DESTROYED TO THE SATISFACTION OF THE UTILITY OWNER AND/OR UTILITY COMPANY.
7. PIPE SIZES SHOWN ARE NOMINAL PIPE DIAMETERS, UNLESS SHOWN OTHERWISE.
8. THE DEFLECTION OF PIPE AND PIPE FITTINGS SHALL NOT EXCEED THE MANUFACTURER'S REQUIREMENTS. USE OF MECHANICAL MEANS FOR DEFLECTION ARE NOT ALLOWED.
9. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL GROUNDWATER UTILIZING AN EFFECTIVE DEWATERING PROGRAM THAT IS ACCEPTED BY THE ENGINEER TO INSTALL MATERIALS IN COMPLIANCE WITH THE SPECIFICATIONS. DISCHARGE OF THE WATER SHALL BE PER THE PERMIT OBTAINED BY THE CONTRACTOR.

LEGEND:



CONTOUR - MAJOR (5' INTERVAL)
CONTOUR - MINOR (1' INTERVAL)
GROUND SLOPE
STAKEOUT POINT
SPOT ELEVATION
RETAINING WALL
STORM SEWER
TREE/BUSH LINE
STORM SEWER AREA INLET
TREE - CONIFEROUS
TREE - DECIDUOUS
BUSH
BRICK MASONRY RETAINING WALL
CONCRETE
LANDSCAPE - ROCK
TRENCHDRAIN

ABBREVIATIONS:

TERM	DEFINITION
AC	ALUMINUM CAP
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
BK	BOOK
BLD	BUILDING
BM	BENCH MARK
BOP	BOTTOM OF PIPE
B/W	BETWEEN
BVCS	BEGINNING VERTICAL CURVE STATION
BVCE	BEGINNING VERTICAL CURVE ELEVATION
(C)	CALCULATED BEARING & DISTANCE
CH	CHORD
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CPP	CORRUGATED PLASTIC PIPE
DEMO	DEMOLISH
DIAM	DIAMETER
DIP	DUCTILE IRON PIPE
(E)	EXISTING
EVCS	ENDING VERTICAL CURVE STATION
EVCE	ENDING VERTICAL CURVE ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATION
FFE	FINISH FLOOR ELEVATION
FE	FLANGED END
FG	FINISH GRADE
HDPE	HIGH-DENSITY POLYETHYLENE
HORIZ	HORIZONTAL
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
LF	LINEAR FEET
(M)	MEASURED BEARING & DISTANCE
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
MJ	MECHANICAL JOINT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OG	ORIGINAL GROUND
(P)	PROPOSED
PC	POINT OF CURVATURE
PCOR	PROPERTY CORNER
PE	POLYETHYLENE
PI	POINT OF INTERSECTION
PVI	POINT OF VERTICAL INTERSECTION
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
R	RADIUS
(R)	RECORD BEARING & DISTANCE
RE:	REFERENCE
RCP	REINFORCED CONCRETE PIPE
S	SLOPE
SCH	SCHEDULE
SOG	SLAB ON GRADE
STRUCT	STRUCTURAL
TBC	TOP BACK OF CURB
TCP	TEMPORARY CONTROL POINT
TYP	TYPICAL
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH

REVISIONS

DESCRIPTION	DATE
DRAFT BID SET	10/25/2024
CD'S	11/8/2024

UCCS
University of Colorado Colorado Springs

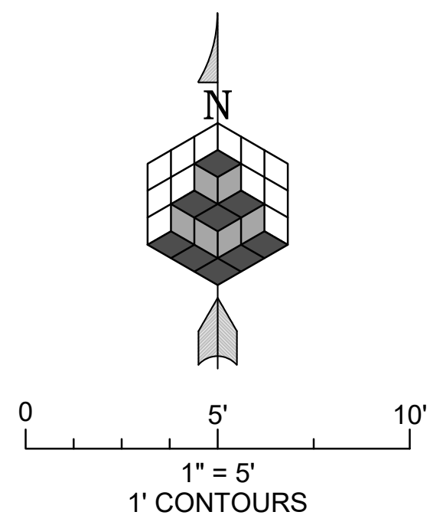
WATER INFILTRATION - CENTENNIAL HALL

UNIVERSITY OF COLORADO COLORADO SPRINGS
1420 AUSTIN BLUFFS PKWY
COLORADO SPRINGS, CO 80918

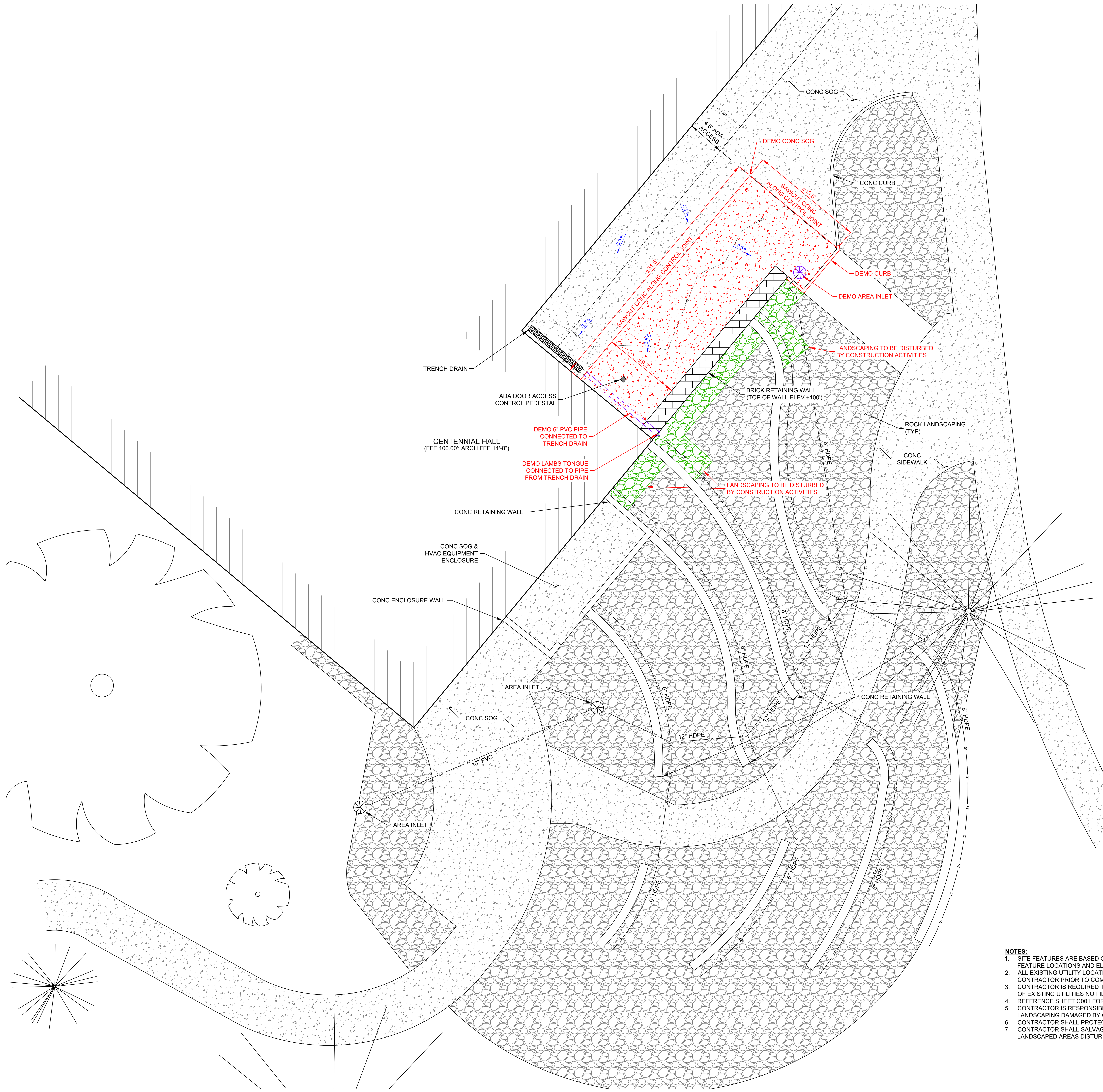
KL&A Engineers & Builders
COMPASS ARCHITECTURE
COLORADO LICENSED CRAIG SHAFFER 55904 PROFESSIONAL ENGINEER 11/08/2024

SHEET TITLE: CIVIL GENERAL NOTES & LEGEND
DATE: 11/8/2024 | SCALE: NTS | PROJECT # EM2501

C001



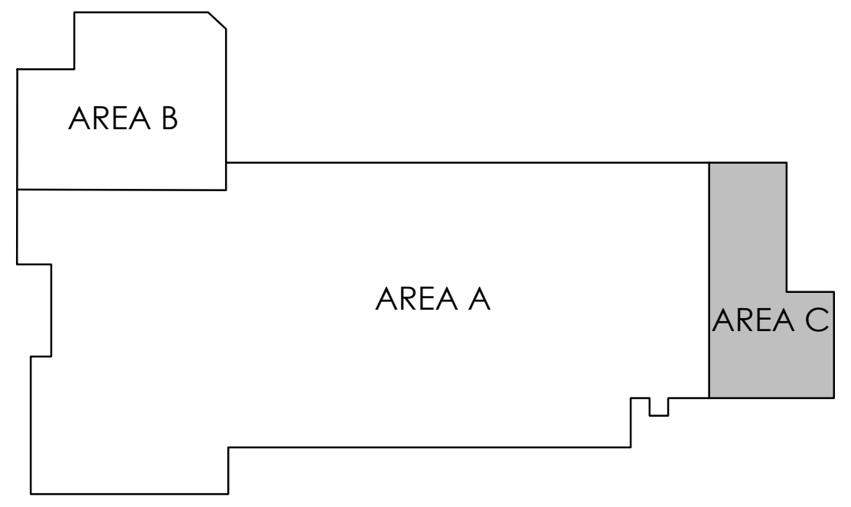
University of Colorado
Colorado Springs



1
C101

ORIGINAL SITE / DEMO PLAN

SCALE: 1" = 5'



KEY PLAN

NOTES:

1. SITE FEATURES ARE BASED OFF LIMITED SURVEY DATA. CONTRACTOR SHALL VERIFY SITE FEATURE LOCATIONS AND ELEVATIONS PRIOR TO COMMENCEMENT OF WORK.
2. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.
3. CONTRACTOR IS REQUIRED TO HIRE A PRIVATE LOCATING SERVICE TO IDENTIFY LOCATIONS OF EXISTING UTILITIES NOT IDENTIFIED BY COLORADO 811 OR UTILITY COMPANIES.
4. REFERENCE SHEET C001 FOR GENERAL UTILITY NOTES.
5. CONTRACTOR IS RESPONSIBLE TO REPAIR AND/OR REPLACE ALL IRRIGATION AND LANDSCAPING DAMAGED BY CONSTRUCTION ACTIVITIES.
6. CONTRACTOR SHALL PROTECT ALL VEGETATION TO PRACTICAL EXTENTS POSSIBLE.
7. CONTRACTOR SHALL SALVAGE ROCK LANDSCAPING AND REUSE IN RESTORATION OF LANDSCAPED AREAS DISTURBED BY CONSTRUCTION EFFORTS FOR THIS PROJECT.

REVISIONS

DESCRIPTION	DATE
DRAFT BID SET	10/25/2024
CD'S	11/8/2024

WATER INFILTRATION - CENTENNIAL HALL

UNIVERSITY OF COLORADO COLORADO SPRINGS
1420 AUSTIN BLUFFS PKWY
COLORADO SPRINGS, CO 80918

KL&A
Engineers & Builders

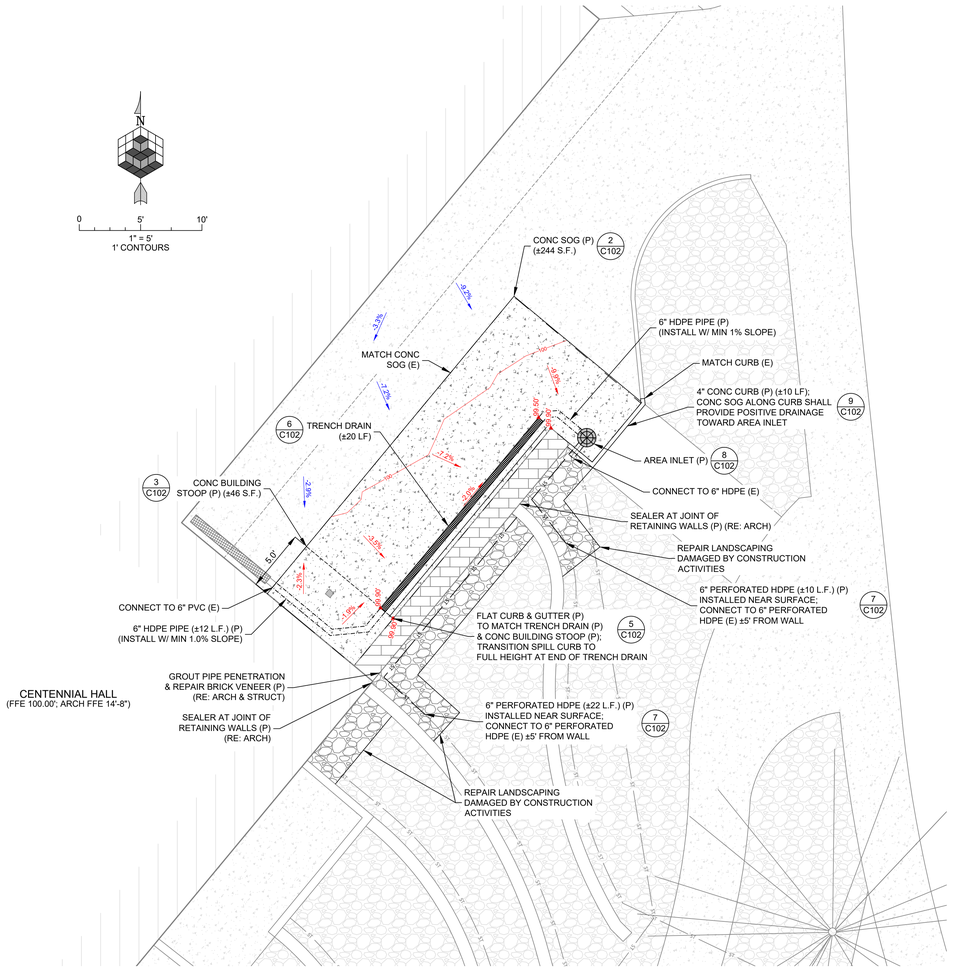
COLORADO LICENSED PROFESSIONAL ENGINEER
54904
11/08/2024

COMPASS ARCHITECTURE

SHEET TITLE: ORIGINAL SITE / DEMO PLAN

DATE: 11/8/2024	SCALE: 1" = 5'	PROJECT # EM2501

C101



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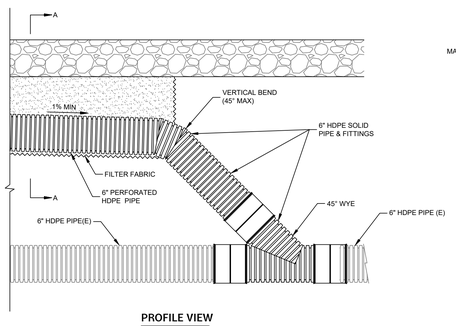
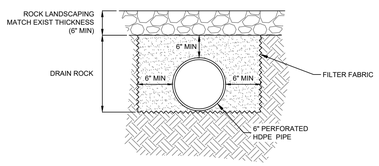
3. CONTRACTOR IS REQUIRED TO HIRE A PRIVATE LOCATING SERVICE TO IDENTIFY LOCATIONS OF EXISTING UTILITIES NOT IDENTIFIED BY COLORADO 811 OR UTILITY COMPANIES.
4. REFERENCE SHEET C001 FOR GENERAL UTILITY NOTES.
5. ALL STORM SEWER PIPES AND TRENCH DRAIN SHALL BE INSTALLED WITH SUFFICIENT SLOPE TO PROVIDE POSITIVE DRAINAGE.
6. CONTRACTOR IS RESPONSIBLE TO REPAIR AND/OR REPLACE ALL IRRIGATION AND LANDSCAPING DAMAGED BY CONSTRUCTION ACTIVITIES.
7. CONTRACTOR SHALL PROTECT ALL VEGETATION TO PRACTICAL EXTENTS POSSIBLE.
8. CONTRACTOR SHALL SALVAGE ROCK LANDSCAPING AND REUSE IN RESTORATION OF LANDSCAPED AREAS DISTURBED BY CONSTRUCTION EFFORTS FOR THIS PROJECT.

1 C102 SITE & GRADING PLAN

SCALE: 1" = 5'



PROFILE VIEW



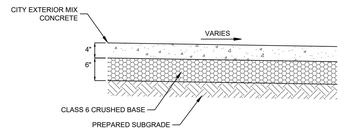
SECTION A-A

NOTES:

1. HDPE PIPE AND ASSOCIATED FITTINGS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
2. DRAIN ROCK SHALL BE 1-1/2" CLEAN ROCK FREE OF DIRT, CLAY, SAND, AND ROCK FINES.
3. FILTER FABRIC SHALL BE TENCATE MIRAFI 170N OR EQUIVALENT PRODUCT APPROVED BY ARCHITECT OR ENGINEER.
4. FILTER FABRIC SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION REQUIREMENTS.

7 C102 DETAIL - CONNECT DRAIN TO EXISTING PIPE

N.T.S.

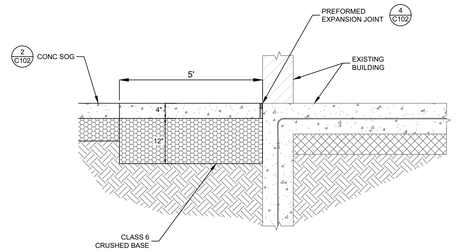


NOTES:

1. SEALANT AND PREFORMED EXPANSION JOINT MATERIAL SHALL BE PER SECTION 500 OF THE CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS.
2. PREFORMED EXPANSION JOINT FILLER SHALL BE INSTALLED FOR THE FULL THICKNESS AND SHALL BE USED AT ALL JOINTS BETWEEN EXISTING CONCRETE, INLETS, AND OPPOSITE TO EXISTING EXPANSION JOINTS AND AT NOT MORE THAN 150 FOOT INTERVALS.
3. CONTRACTION JOINTS SHALL BE CONSTRUCTED BY SAWING OR SCORING. WHEN SCORING, A TOOL SHALL BE USED WHICH WILL LEAVE CORNERS ROUNDED AND DESTROY AGGREGATE INTERLOCK FOR SPECIFIED MINIMUM DEPTH.
4. CONTRACTION JOINTS SHALL BE PLACED TO ALIGN WITH JOINTS IN ADJACENT CONCRETE, AT END OF RETAINING WALL, OR AT ANY OTHER FEATURES WHICH WILL CREATE CRACKING.
5. CLASSIFICATION AND CONSTRUCTION OF THE CRUSHED AGGREGATE BASE COURSE SHALL BE PER SECTION 300 OF THE CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS.
6. COMPACTION OF PREPARED SUBGRADE SHALL BE PER SECTION 200 OF THE CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS.

2 C102 DETAIL - CONCRETE SOG

N.T.S.

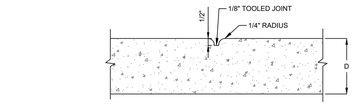


NOTES:

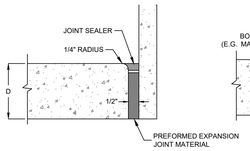
1. SEALANT AND PREFORMED EXPANSION JOINT MATERIAL SHALL BE PER SECTION 500 OF THE CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS.
2. PREFORMED EXPANSION JOINT FILLER SHALL BE INSTALLED FOR THE FULL THICKNESS AND SHALL BE USED AT ALL JOINTS BETWEEN EXISTING BUILDING, RETAINING WALL, AND OPPOSITE TO EXISTING EXPANSION JOINTS AND AT NOT MORE THAN 150 FOOT INTERVALS.
3. CONTRACTION JOINTS SHALL BE CONSTRUCTED BY SAWING OR SCORING. WHEN SCORING, A TOOL SHALL BE USED WHICH WILL LEAVE CORNERS ROUNDED AND DESTROY AGGREGATE INTERLOCK FOR SPECIFIED MINIMUM DEPTH.
4. CONTRACTION JOINTS SHALL BE PLACED BETWEEN EXPANSION JOINTS AT THE SAME INTERVALS AS THE WIDTH OF THE SOG, OR AS SHOWN ON THE PLANS.
5. JOINTS SHALL COINCIDE WITH JOINTS IN ADJACENT SIDEWALKS, OR OTHER CONCRETE.
6. CLASSIFICATION AND CONSTRUCTION OF THE CRUSHED AGGREGATE BASE COURSE SHALL BE PER SECTION 300 OF THE CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS.
7. COMPACTION OF PREPARED SUBGRADE SHALL BE PER SECTION 200 OF THE CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS.

3 C102 DETAIL - CONCRETE BUILDING STOOP

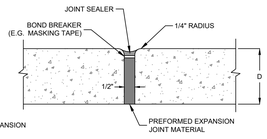
N.T.S.



CONTRACTION JOINT



PREFORMED EXPANSION JOINT



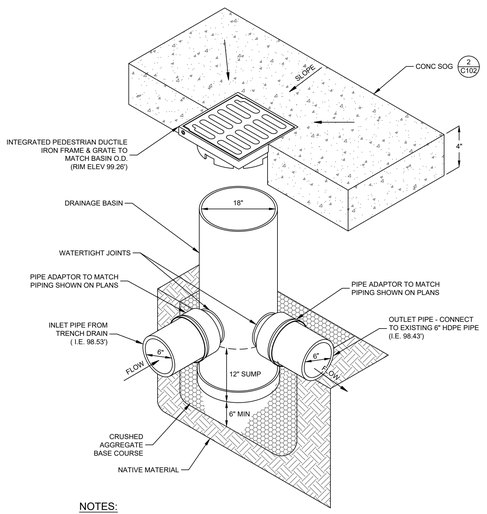
PREFORMED EXPANSION JOINT

NOTES:

1. SEALANT AND PREFORMED EXPANSION JOINT MATERIAL SHALL BE PER SECTION 500 OF THE CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS.
2. PREFORMED EXPANSION JOINT FILLER SHALL BE INSTALLED FOR THE FULL THICKNESS AND SHALL BE USED AT ALL JOINTS BETWEEN EXISTING CONCRETE, INLETS, AND OPPOSITE TO EXISTING EXPANSION JOINTS AND AT NOT MORE THAN 150 FOOT INTERVALS.
3. CONTRACTION JOINTS SHALL BE CONSTRUCTED BY SAWING OR SCORING. WHEN SCORING, A TOOL SHALL BE USED WHICH WILL LEAVE CORNERS ROUNDED AND DESTROY AGGREGATE INTERLOCK FOR SPECIFIED MINIMUM DEPTH.
4. CONTRACTION JOINTS SHALL BE PROVIDED BETWEEN EXPANSION JOINTS AT THE SAME INTERVALS AS THE WIDTH OF THE SLAB, OR AS SHOWN ON THE PLANS.
5. JOINTS SHALL COINCIDE WITH JOINTS IN ADJACENT SIDEWALKS, CURB & GUTTER, OR OTHER CONCRETE.

4 C102 DETAIL - CONC SLAB JOINTS

N.T.S.

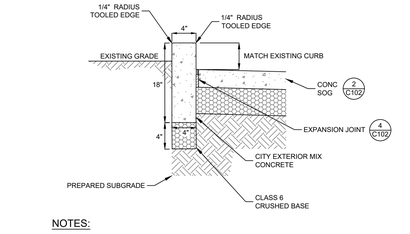


NOTES:

1. DRAINAGE BASIN SHALL BE A NYLOPLAST SYSTEM, OR ENGINEER APPROVED EQUAL.
2. GRATES COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3. FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
4. CLASSIFICATION AND CONSTRUCTION OF THE CRUSHED AGGREGATE BASE COURSE SHALL BE PER SECTION 300 OF THE CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS.
5. CONCRETE SHALL BE CONSTRUCTED TO ENSURE POSITIVE DRAINAGE TOWARDS THE GRATE.
6. INLET AND FITTINGS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION REQUIREMENTS.

8 C102 DETAIL - AREA INLET

N.T.S.

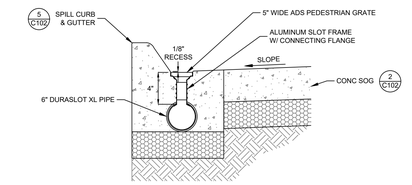


NOTES:

1. PREFORMED EXPANSION JOINT FILLER SHALL BE INSTALLED FOR THE FULL THICKNESS AND SHALL BE USED AT ALL JOINTS BETWEEN EXISTING CONCRETE, INLETS, AND OPPOSITE TO EXISTING EXPANSION JOINTS AND AT NOT MORE THAN 150 FOOT INTERVALS.
2. CONTRACTION JOINTS SHALL BE CONSTRUCTED BY SAWING OR SCORING. WHEN SCORING, A TOOL SHALL BE USED WHICH WILL LEAVE CORNERS ROUNDED AND DESTROY AGGREGATE INTERLOCK FOR SPECIFIED MINIMUM DEPTH.
3. JOINTS SHALL COINCIDE WITH JOINTS IN ADJACENT SIDEWALKS, OR OTHER CONCRETE.
4. CLASSIFICATION AND CONSTRUCTION OF THE CRUSHED AGGREGATE BASE COURSE SHALL BE PER SECTION 300 OF THE CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS.
5. COMPACTION OF PREPARED SUBGRADE SHALL BE PER SECTION 200 OF THE CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS.

5 C102 DETAIL - SPILL CURB AND GUTTER

N.T.S.



NOTES:

1. TRENCH DRAIN SHALL BE ADS DURALAST XL WITH PEDESTRIAN DUCTILE IRON GRATE OR EQUIVALENT PRODUCT APPROVED BY THE ARCHITECT OR ENGINEER.
2. TRENCH DRAIN, FITTINGS, AND HARDWARE SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION REQUIREMENTS.

6 C102 DETAIL - TRENCH DRAIN

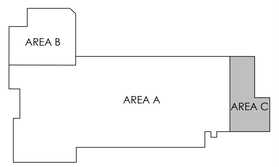
N.T.S.

NOTES:

1. PREFORMED EXPANSION JOINT FILLER SHALL BE INSTALLED FOR THE FULL THICKNESS AND SHALL BE USED AT ALL JOINTS BETWEEN EXISTING CONCRETE, INLETS, AND OPPOSITE TO EXISTING EXPANSION JOINTS AND AT NOT MORE THAN 150 FOOT INTERVALS.
2. CONTRACTION JOINTS SHALL BE CONSTRUCTED BY SAWING OR SCORING. WHEN SCORING, A TOOL SHALL BE USED WHICH WILL LEAVE CORNERS ROUNDED AND DESTROY AGGREGATE INTERLOCK FOR SPECIFIED MINIMUM DEPTH.
3. JOINTS SHALL COINCIDE WITH JOINTS IN ADJACENT SIDEWALKS, OR OTHER CONCRETE.
4. CLASSIFICATION AND CONSTRUCTION OF THE CRUSHED AGGREGATE BASE COURSE SHALL BE PER SECTION 300 OF THE CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS.
5. COMPACTION OF PREPARED SUBGRADE SHALL BE PER SECTION 200 OF THE CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS.

9 C102 DETAIL - STANDARD CURB

N.T.S.



KEY PLAN

REVISIONS

DESCRIPTION	DATE
DRAFT BID SET	10/25/2024
CD'S	11/8/2024

UCCS
University of Colorado Colorado Springs

WATER INFILTRATION - CENTENNIAL HALL

UNIVERSITY OF COLORADO COLORADO SPRINGS
1420 AUSTIN BLUFFS PKWY
COLORADO SPRINGS, CO 80918

KL&A Engineers & Builders
COMPASS ARCHITECTURE
COLORADO LICENSED
CHRISTIAN SHAFFER
57316
11/08/2024
PROFESSIONAL ENGINEER

SHEET TITLE: SITE & GRADING PLAN		
DATE: 11/8/2024	SCALE: 1" = 5'	PROJECT # EM2501

C102