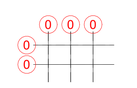
WORKING DRAWINGS

SYMBOL LEGEND:



STRUCTURAL GRID LINES (PROPOSED)
IDENTIFIES THE PROPOSED STRUCTURAL GRID



ELEVATION TAG:
IDENTIFIES LOCATION OF ELEVATION INDICATED WITHIN WORKING DRAWINGS



ELEVATION TARGET:
IDENTIFIES VERTICAL HEIGHT OF LEVEL INDICATED



WALL SECTION TAG:
IDENTIFIES THE LOCATION OF THE WALL SECTION INDICATED WITHIN THE WORKING DRAWINGS SET



DOOR TAG:
IDENTIFIES DOOR & FRAME TYPES AS DESCRIBED IN THE PROJECT "DOOR & HARDWARE SCHEDULE"



MATERIAL TAG:
IDENTIFIES MATERIAL TYPES AS DESCRIBED IN THE MATERIAL LEGEND KEY IN ELEVATION SHEETS



DETAIL TITLE:
IDENTIFIES THE NAME, NUMBER, & SCALE OF THE DETAIL



ROOM NAME / # TAG:
IDENTIFIES ROOM NAME & NUMBER AS DESCRIBED IN THE PROJECT "ROOM FINISH SCHEDULE"



DETAIL BUBBLE:
IDENTIFIES LOCATION OF ENLARGED DETAIL FOR AREA INDICATED WITHIN WORKING SET OF DRAWINGS



WINDOW TAG:
IDENTIFIES WINDOW OR FRAME TYPES

DRAWING INDEX:

Architectural Sheets

Sheet Number	Sheet Name	Sheet order
.C-01	Cover Sheet	
A-4.10	Sections & Elevations	
A-0.1	General Notes	3
A-0.2	General Notes	3
A-1.00	Floor Plans - Existing	3
A-1.03	Ground Floor Plan Complete	3
A-1.04	Services	3
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S-01	Structrual Plans	3
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S-03	Deatils	3
S-04	Deatils	3

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MINISTRY OF COMMUNICATIONS
WORKS & LABOUR
P.O BOX 344, MONTSERRAT
TEL: (664) -491-6611 / FAX: (664) 491-6659
EMAIL: GOVARCH@GOV.MS

10/14/2020

REVISIONS

DATE: 10/14/2020
DRAWN BY: Author
CHECKED BY: Checker

Cover Sheet

SHEET NO:
.C-01

DIVISION 3 - CONCRETE

(STRUCTURAL SPECIFICATIONS TAKE PRESIDENCE OVER THIS SECTION)

SECTION 03300 - CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. Submittals: Product Data and laboratory test reports.

B. Comply with ASTM C 94; ACI 301, "Specification for Structural Concrete"; ACI 117, "Specifications for Tolerances for Concrete Construction and Materials"; and CRSI's "Manual of Standard Practice."

C. Engage a qualified independent testing agency to design concrete mixes.

D. Refer to Structural Specifications and Drawings for addition information.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Deformed Reinforcing Bars: ASTM A 615/A 615M, Grade 60.

B. Plain Steel Wire: ASTM A 82, as drawn.

C. Steel Welded-Wire Fabric: ASTM A 185, flat sheets not rolls.

D. Portland Cement: ASTM C 150, Type I or II.

E. Fly Ash: ASTM C 618, Type C or F.

F. Aggregates: ASTM C 33, uniformly graded.

G. Fiber Reinforcement: ASTM C 1116, Type III, synthetic fibers, 1/2 to 1 inch.

H. Air-Entraining Admixture: ASTM C 260.

I. Chemical Admixtures: ASTM C 494, water reducing, high-range water reducing, water reducing and accelerating, and water reducing and retarding.

J. Water Stops: Flat dumbbell or center-bub type, of either rubber (CRD C 513) or PVC (CRD C 572).

K. Vapor Retarder: Clear 10-mil- thick polyethylene sheet.

L. Liquid Membrane-Forming Curing Compound: ASTM C 309, clear, Type I, Class A or B, solvent borne, wax free or Type I, Class B, waterborne.

M. Liquid Membrane-Forming Curing and Sealing Compound: ASTM C 1315, clear, Type I, Class A, solvent borne or waterborne.

N. Slip-Resistive Aggregate: Factory-produced, rustproof, nonglazing, fused aluminum-oxide granules or crushed emery, unaffected by freezing, moisture, and cleaning materials.

O. Mineral Dry-Shake Floor Hardener: Packaged, dry combination of portland cement, graded quartz aggregate, and plasticizing admixture, with nonfading mineral-oxide coloring pigments; color as selected by Architect.

P. Joint-Filler Strips: ASTM D 1751, cellulosic fiber, or ASTM D 1752, cork.

Q. Repair Underlayment: Factory-packaged, portland or blended hydraulic cement-based, polymer-modified, self-leveling underlayment with minimum 28-day compressive strength of 4100 psi.

R. Repair Topping: Factory-packaged, portland or blended hydraulic cement-based, polymer-modified, self-leveling traffic-bearing topping with minimum 28-day compressive strength of 5700 psi.

2.2 MIXES

A. Proportion normal-weight concrete mixes to provide the following properties:

1. Compressive Strength: 4000 psi at 28 days for walls, beams, and lintels; 3000 psi at 28 days for all other concrete.
2. Slump Limit: 4 inches at point of placement.
3. Air Content: 5.5 to 7.0 percent for concrete exposed to freezing and thawing, 2 to 4 percent elsewhere.

PART 3 - EXECUTION

3.1 CONCRETING

A. Construct formwork and maintain tolerances and surface irregularities within ACI 117 limits of Class A for concrete exposed to view and Class C for other concrete surfaces.

B. Set water stops where indicated to ensure joint watertightness.

C. Place vapor retarder on prepared subgrade, with joints lapped 6 inches and sealed.

D. Accurately position, support, and secure reinforcement.

E. Install construction, isolation, and contraction joints where indicated. Install full-depth joint-filler strips at isolation joints.

F. Place concrete in a continuous operation and consolidate using mechanical vibrating equipment.

G. Protect concrete from physical damage, premature drying, and reduced strength due to hot or cold weather during mixing, placing, and curing.

H. Formed Surface Finish: Smooth-formed finish for concrete exposed to view, coated, or covered by waterproofing or other direct-applied material; rough-formed finish elsewhere.

I. Slab Finishes: Float finish for interior steps and ramps and surfaces to receive waterproofing, roofing, or other direct-applied material. Nonslip-broom finish to exterior concrete platforms, steps, and ramps.

J. Uniformly spread 25 lb/100 sq. ft. of dampened slip-resistive aggregate over initially floated surfaces; tamp and float. Expose nonslip aggregate after curing.

K. Uniformly spread 100 lb/100 sq. ft. of mineral dry-shake floor hardener over initially floated surfaces, repeat float finishing embedding each application, and then applying a trowel finish.

L. Cure formed surfaces by moist curing for at least seven days.

M. Begin curing concrete slabs after finishing. Keep concrete continuously moist for at least seven days.

N. Owner will engage a testing agency to perform field tests and to submit test reports.

O. Protect concrete from damage. Repair surface defects in formed concrete and slabs.

P. Repair slabs not meeting surface tolerances by grinding high areas and by applying a repair underlayment to low areas receiving floor coverings and a repair topping to low areas to remain exposed.

END OF SECTION 03300

DIVISION 4 - MASONRY

(STRUCTURAL SPECIFICATIONS TAKE PRESIDENCE OVER THIS SECTION)

SECTION 04810 - UNIT MASONRY ASSEMBLIES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. Submittals: Samples for face brick, and colored mortar.

B. Comply with ACI 530.1/ASCE 6/TMS 602.

C. Mockups: Construct a sample wall panels approximately 48 inches long by 48 inches high to demonstrate aesthetic effects and qualities of materials and execution.

PART 2 - PRODUCTS

2.1 MASONRY UNITS

A. Concrete Masonry Units: ASTM C 90; Weight Classification, Normal Weight; Type I, moisture-controlled units.

1. Special shapes for lintels, corners, jambs, sash, control joints, and other special conditions.
2. Square-edged units for outside corners, unless otherwise indicated.

B. Face Brick: ASTM C 216, Grade MW or SW, Type FBS.

1. General Shale: Brighton
2. Size: Standard.
3. Solid brick with exposed surfaces finished for ends of sills and caps.
4. Special shapes for applications where shapes produced by sawing would result in sawed surfaces being exposed to view.

2.2 MORTAR AND GROUT

A. Mortar: ASTM C 270, proportion specification. Ready-mixed mortar, ASTM C 1142, may be used at Contractor's option.

1. Masonry Cement: Do not use masonry cement
2. Do not use calcium chloride in mortar.
3. For masonry below grade or in contact with earth, use Type M or RM.
4. For reinforced masonry, use Type S or RS.
5. For exterior, above-grade, load-bearing and non-load-bearing walls and parapet walls; for interior load-bearing walls; for interior non-load-bearing partitions, and for other applications where another type is not indicated, use Type N or RN.
6. Colored Mortar: For face brick, use colored cement or cement-lime mix of color selected.
7. Water-Repellent Additive: For mortar used with decorative concrete masonry units, use product recommended by manufacturer of units.

B. Grout: ASTM C 476 with a slump of 8 to 11 inches.

C. Refractory Mortar: Ground fireclay mortar or other refractory mortar acceptable to authorities having jurisdiction.

2.3 REINFORCEMENT, TIES, AND ANCHORS

A. Steel Reinforcing Bars: ASTM A 615/A 615M, Grade 60.

B. Joint Reinforcement: ASTM A 951, mill galvanized at interior walls and hot-dip galvanized at exterior walls.

1. Wire Diameter for Side Rods: W1.7 or 0.148 inch.
2. Wire Diameter for Cross Rods: W1.7 or 0.148 inch.
3. For single-wythe masonry, provide either ladder design or truss design.
4. For multiwythe masonry, provide ladder design with three side rods.

C. Rigid Anchors: Fabricate from steel bars 1-1/2 inches wide by 1/4 inch thick by 24 inches long, with ends turned up 2 inches or with cross pins.

D. Veneer Anchors: Two-piece adjustable masonry veneer anchors that allow vertical or horizontal adjustment but resist tension and compression forces perpendicular to plane of wall, for attachment over sheathing to studs, and acceptable to authorities having jurisdiction.

2.4 EMBEDDED FLASHING MATERIALS

A. Sheet Metal Flashing: Stainless steel, 0.0156 inch thick.

B. Laminated Flashing: Copper sheet 3 oz./sq. ft., bonded with asphalt between 2 layers of glass-fiber cloth.

C. Rubberized Asphalt Sheet Flashing: Pliable and highly adhesive rubberized asphalt compound, 26 mils thick, bonded to a polyethylene film, 4 mils thick, to produce an overall thickness of 30 mils.

2.5 MISCELLANEOUS MASONRY ACCESSORIES

A. Compressible Filler: Premolded strips complying with ASTM D 1056, Grade 2A1.

B. Preformed Control-Joint Gaskets: Designed to fit standard sash block and to maintain lateral stability in masonry wall; made from styrene-butadiene rubber or PVC.

C. Weep Holes: Round polyethylene tubing, 3/8-inch OD or Cotton sash cord, 24 inches long.

D. Loose-Granular Perlite Insulation: ASTM C 549, Type II or IV.

E. Molded Polystyrene Insulation Units: ASTM C 578, Type I; specially shaped units designed for installing in cores of masonry units.

F. Extruded-Polystyrene Board Insulation: ASTM C 578, Type IV or X.

G. Polyisocyanurate Board Insulation: ASTM C 1289, Type I, Class 2; aluminum-foil faced.

H. Job-Mixed Masonry Cleaner: 1/2-cup tetrasodium polyphosphate and 1/2-cup laundry detergent dissolved in 1 gal. of water.

I. Acidic Masonry Cleaner: Surclean or equal

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. Cut masonry units with saw. Install with cut surfaces and, where possible, cut edges concealed.

B. Mix units for exposed unit masonry from several pallets or cubes as they are placed to produce uniform blend of colors and textures.

C. Matching Existing Masonry: Match coursing, bonding, color, and texture of existing masonry.

D. Stopping and Resuming Work: Rack back units; do not tooth.

E. Fill cores in hollow concrete masonry units with grout 24 inches under bearing plates, beams, lintels, posts, and similar items, unless otherwise indicated.

F. Build non-load-bearing interior partitions full height and install compressible filler in joint between top of partition and underside of structure above.

G. Tool exposed joints slightly concave when thumbprint hard, unless otherwise indicated.

H. Keep cavities clean of mortar droppings and other materials during construction. Strike joints facing cavities flush.

I. Set firebox brick in full bed of refractory mortar with full head joints. Make joints approximately 1/8 inch wide and tool smooth.

J. Set clay flue liners in full beds of refractory mortar to comply with ASTM C 1283.

3.2 LINTELS

A. Install steel lintels where required.

B. Provide masonry lintels where shown. Use precast lintels made from concrete matching concrete masonry units in color, texture, and compressive strength and with reinforcement bars indicated or required to support loads indicated.

C. Minimum bearing of 8 inches at each jamb, unless otherwise indicated.

3.3 FLASHING AND WEEP HOLES

A. Install embedded flashing and weep holes in masonry at shelf angles, lintels, ledges, other obstructions to the downward flow of water in the wall, and where indicated.

B. Place through-wall flashing on sloping bed of mortar and cover with mortar. Seal penetrations in flashing before covering with mortar.

1. Extend flashing 4 inches into masonry at each end and turn up 2 inches to form a pan.

C. Trim wicking material used in weep holes flush with outside face of wall after mortar has set.

3.4 FIELD QUALITY CONTROL

A. Owner will engage a qualified independent testing agency to perform the following tests for each 5000 sq. ft. of wall area or portion thereof.

1. Mortar: ASTM C 780.
2. Grout: ASTM C 1019.
3. Brick: ASTM C 67.
4. Concrete Masonry Units: ASTM C 140.

3.5 PARGING

A. Parge predampened masonry walls with Type S or Type N mortar applied in 2 uniform coats with a steel-trowel finish. Form a wash at top of parging and a cove at bottom. Damp cure parging for at least 24 hours.

3.6 CLEANING

A. Clean masonry as work progresses. Remove mortar fins and smears before tooling joints.

B. Final Cleaning: After mortar is thoroughly cured, remove large mortar particles, scrub, and rinse unit masonry.

1. Wet wall surfaces with water before applying acidic cleaner, then remove cleaner promptly by rinsing thoroughly with clear water.

END OF SECTION 04810

DIVISION 5 - METALS

(STRUCTURAL SPECIFICATIONS TAKE PRESIDENCE OVER THIS SECTION)

SECTION 05500 - METAL FABRICATIONS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. Submittals: Shop Drawings showing details of fabrication and installation.

B. Refer to Structural Drawings for definition of materials and performance.

C. All Structural Engineer notes supersede any notes in this section.

PART 2 - PRODUCTS

2.1 METALS

A. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.

B. Stainless-Steel Sheet, Strip, Plate, and Flat Bars: ASTM A 666, Type 304.

C. Rolled Steel Floor Plate: ASTM A 786/A 786M.

D. Steel Tubing: Cold-formed steel tubing complying with ASTM A 500.

E. Steel Pipe: ASTM A 53, standard weight (Schedule 40), black finish.

F. Slotted Channel Framing:

G. Iron Castings: ASTM A 47, Grade 32510.

H. Aluminum Extrusions: ASTM B 221.

I. Aluminum-Alloy Rolled Tread Plate: ASTM B 632 .

2.2 GROUT

A. Nonshrink, Nonmetallic Grout: ASTM C 1107; recommended by manufacturer for exterior applications.

2.3 FABRICATION

A. General: Shear and punch metals cleanly and accurately. Remove burrs and ease exposed edges. Form bent-metal corners to smallest radius possible without impairing work.

B. Welding: Weld corners and seams continuously. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals. At exposed connections, finish welds and surfaces smooth with contour of welded surface matching those adjacent.

C. Fabricate ladders for locations shown, complying with ANSI A14.3, welded steel construction.

1. For elevator pit ladders, comply with ASME A17.1.

D. Fabricate loose lintels from steel angles and shapes. Size to provide bearing length at each side of openings equal to one-twelfth of clear span, but not less than 8 inches.

E. Fabricate steel pipe columns with steel base and top plates drilled for anchor and connection bolts and welded to pipe with continuous fillet weld same size as pipe wall thickness.

1. Provide 1/2-inch base plates with four 5/8-inch anchor bolts and 1/4-inch top plates.

F. Fabricate structural-steel door frames from structural shapes and bars fully welded together, with 5/8-by-1-1/2-inch steel channel stops. Plug-weld built-up members and continuously weld exposed joints.

1. Provide steel strap anchors, 1/8-by-2-inch with 8-inch embedment, welded to jambs 12 inches from bottom and head and spaced 30 inches apart.

G. Fabricate nosings from cast iron with an integral abrasive finish.

H. Fabricate nosings and treads from extruded aluminum with abrasive filler consisting of aluminum-oxide or silicon-carbide grits, or a combination of both, in an epoxy-resin binder.

I. Fabricate pipe bollards from Schedule 40steel pipe.

2.4 STEEL AND IRON FINISHES

A. Hot-dip galvanize steel fabrications at exterior locations.

B. Prepare uncoated ferrous metal surfaces to comply with SSPC-SP 3, "Power Tool Cleaning," and paint with a rust-inhibitive primer complying with performance requirements of FS TT-P-664.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Perform cutting, drilling, and fitting required for installing miscellaneous metal fabrications. Set metal fabrication accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack.

B. Fit exposed connections accurately together to form hairline joints.

C. Coat concealed surfaces of aluminum that will come into contact with grout, concrete, masonry, wood, or dissimilar metals with a heavy coat of bituminous paint.

D. Anchor bollards in concrete and fill solidly with concrete.

END OF SECTION 05500

SECTION 05520 - HANDRAILS AND RAILINGS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. Structural Performance: Design, engineer, fabricate, and install handrails and railings to withstand structural loads required by ASCE 7.

B. Submittals: Product Data, Shop Drawings, structural analysis data signed and sealed by a qualified professional engineer registered in the state where Project is located, and manufacturer's color charts showing the full range of colors available for factory-applied finishes].

PART 2 - PRODUCTS

2.1 METALS

A. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.

B. Steel Pipe: ASTM A 53, Schedule 40.

C. Steel Tube: ASTM A 500.

D. Brackets, Flanges, and Anchors: Cast or formed metal of same type of material and finish as supported rails, unless otherwise indicated.

2.2 OTHER MATERIALS

A. Nonshrink, Nonmetallic Grout: ASTM C 1107; recommended by manufacturer for exterior applications.

2.3 FABRICATION

A. Assemble railing systems in shop to the greatest extent possible. Use connections that maintain structural value of joined pieces.

B. Form changes in direction of railing members by bending or by mitering at elbow bends.

C. Fabricate railing systems and handrails for connecting members by welding.

D. Provide manufacturer's standard wall brackets, flanges, miscellaneous fittings, and anchors to connect handrail and railing members to other construction.

E. Provide wall returns at ends of wall-mounted handrails.

2.4 FINISHES

A. Steel Railings: Hot-dip galvanized after fabrication, ASTM A 123; cleaned and shop primed after galvanizing or Cleaned and shop primed.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Fit exposed connections accurately together to form tight, hairline joints.

B. Set handrails and railings accurately in location, alignment, and elevation and free from rack.

C. Anchor posts in concrete by forming or core-drilling holes 5 inches deep and 3/4 inch greater than OD of post. Fill annular space between post and concrete with nonshrink, nonmetallic grout.

D. Attach handrails to wall with wall brackets.

END OF SECTION 05520

DIVISION 6 - WOODS AND PLASTICS

(STRUCTURAL SPECIFICATIONS TAKE PRESIDENCE OVER THIS SECTION)

SECTION 06100 - ROUGH CARPENTRY

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. Submittals: Model code evaluation reports for engineered wood products.

PART 2 - PRODUCTS

2.1 LUMBER, GENERAL

A. Dressed lumber, S4S, 19 percent maximum moisture content for 2-inch thickness or less, marked with grade stamp of inspection agency.

2.2 TREATED MATERIALS

A. Preservative-Treated Materials: AWPA C2 lumber and AWPA C9 plywood, labeled by an inspection agency approved by ALSC's Board of Review. After treatment, kiln-dry lumber and plywood to 19 and 15 percent moisture content, respectively. Treat indicated items and the following:

1. Wood members in connection with roofing, flashing, vapor barriers, and waterproofing.
2. Concealed members in contact with masonry or concrete.
3. Wood floor plates installed over concrete slabs directly in contact with earth.

B. Fire-Retardant-Treated Materials: AWPA C20 lumber and AWPA C27 plywood, interior Type A treatment, labeled by a testing and inspecting agency acceptable to authorities having jurisdiction.

1. Use treated lumber and plywood with bending strength, stiffness, and fastener-holding capacities that are not reduced below values published by manufacturer of chemical formulation under elevated temperature and humidity conditions.

2.3 LUMBER

A. Miscellaneous Lumber: No. 3 or Standard grade of any species for nailers, blocking, and similar members.

PWD

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MINISTRY OF COMMUNICATIONS
WORKS & LABOUR
P.O BOX 344, MONTSERRAT
TEL: (664) -491-6611 / FAX: (664) 491-6659
EMAIL: GOVARCH@GOV.MS

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CHECKED BY: Checker

General Notes

SHEET NO:

A-0.1

3.2 CONSTRUCTION FACILITIES
A. Provide field offices, storage trailers, and other support facilities as necessary for efficient prosecution of the Work.
1. Temporary facilities located within the construction area or within 30 feet of building lines shall be of noncombustible construction.
B. Provide temporary sanitary facilities. Comply with regulations and health codes for type, number, location, and maintenance of facilities.
C. Provide temporary enclosures for protection of construction and workers from exposure and inclement weather and for containment of heat.
D. Install project identification and other signs in locations approved by Owner to inform the public and persons seeking entrance to Project.
E. Collect waste daily and, when containers are full, legally dispose of waste off-site.
1. Handle hazardous, dangerous, or unsanitary waste materials in separate closed waste containers. Dispose of material according to applicable laws and regulations.
3.3 TEMPORARY CONTROLS
A. Provide temporary fire protection until permanent systems supply fire-protection needs.
1. Provide adequate numbers and types of fire extinguishers.
2. Store combustible materials in fire-safe containers in fire-safe locations.
3. Prohibit smoking in hazardous fire-exposure areas.
4. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition.
B. Provide temporary barricades, warning signs, and lights to protect the public and construction personnel from construction hazards.
1. Enclose construction areas with fences with lockable entrance gates, to prevent unauthorized access.
2. Fences are to be 6'-0" minimum height above ground, chain link and anchored to ground. Plastic barricades are not acceptable.
C. Provide temporary environmental controls as required by authorities having jurisdiction including, but not limited to, erosion and sediment control, dust control, noise control, and pollution control.
END OF SECTION 01500

SECTION 01600 - PRODUCT REQUIREMENTS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Provide products of same kind from a single source. The term "product" includes the terms "material," "equipment," "system," and similar terms.
B. Deliver, store, and handle products according to manufacturer's written instructions, using means and methods that will prevent damage, deterioration, and loss, including theft.
1. Schedule delivery to minimize long-term storage and to prevent overcrowding construction spaces.
2. Deliver in manufacturer's original sealed packaging with labels and written instructions for handling, storing, protecting, and installing.
3. Inspect products at time of delivery for compliance with the Contract Documents and to ensure items are undamaged and properly protected.
4. Store heavy items in a manner that will not endanger supporting construction.
5. Store products subject to damage on platforms or pallets, under cover in a weathertight enclosure, with ventilation adequate to prevent condensation. Maintain temperature and humidity within range required.
C. Product Substitutions: Reasonable and timely requests for substitutions will be considered. Substitutions include products and methods of construction differing from that required by the Contract Documents and proposed by Contractor after award of Contract.
1. Submit four copies of each request for product substitution. Identify product to be replaced and provide complete documentation showing compliance of proposed substitution with applicable requirements. Include a full comparison with the specified product, a list of changes to other Work required to accommodate the substitution, and any proposed changes in Contract Sum or Contract Time should the substitution be accepted.
2. Submit requests for product substitution in time to permit processing of request and subsequent Submittals, if any, sufficiently in advance of when materials are required in the Work. Do not submit unapproved substitutions on Shop Drawings or other submittals.
3. Architect will review the proposed substitution and notify Contractor of its acceptance or rejection.
PART 2 - PRODUCTS
2.1 PRODUCT OPTIONS
A. Provide products that comply with the Contract Documents, are undamaged, and are new at the time of installation.
1. Provide products complete with accessories, trim, finish, and other devices and components needed for a complete installation and the intended use and effect.
B. Do not attach manufacturer's labels or trademarks, except for required nameplates, on surfaces exposed to view in occupied spaces or on the exterior.
C. Select products as follows:
1. Where only a single product or manufacturer is named, provide the item indicated. No substitutions will be permitted.
2. Where two or more products or manufacturers are named, provide one of the items indicated. No substitutions will be permitted.
3. Where products or manufacturers are specified by name, accompanied by the term "or equal," provide the named item or comply with provisions concerning "product substitutions" to obtain approval for use of an unnamed product or manufacturer.
4. Where a product is described with required characteristics, with or without naming a brand or trademark, provide a product that complies with those characteristics and other Contract requirements.
5. Where compliance with performance requirements is specified, provide products that comply and are recommended in writing by the manufacturer for the application.
6. Where compliance with codes, regulations, or standards, is specified, select a product that complies with the codes, regulations, or standards referenced.
D. Unless otherwise indicated, Architect will select color, pattern, and texture of each product from manufacturer's full range of options.
2.2 OWNER-FURNISHED PRODUCTS
A. Coordinate with Owner any products to be installed by Genral Contractor at Owner's request.
PART 3 - EXECUTION (Not Applicable)
END OF SECTION 01600

SECTION 01700 - EXECUTION REQUIREMENTS
PART 1 - GENERAL
1.1 CLOSEOUT SUBMITTALS
A. Record Drawings: Maintain a set of Contract Drawings as Record Drawings. Mark to show installation that varies from the Work originally shown.
B. Record Specifications: Maintain one copy of the Project Specifications, including addendas as, Record Specifications. Mark to show variations in Work performed in comparison with the text of the Specifications and modifications.
C. Operation and Maintenance Data: Organize data into three-ring binders, with pocket folders for folded sheet information. Mark identification on front and spine of each binder. Include the following:
1. Emergency instructions.
2. Spare parts list.
3. Copies of warranties.
4. Wiring diagrams.
5. Shop Drawings and Product Data.
PART 2 - PRODUCTS (Not Applicable)
PART 3 - EXECUTION
3.1 EXAMINATION AND PREPARATION
A. Examine substrates and conditions for compliance with manufacturer's written requirements including, but not limited to, surfaces that are sound, level, and plumb; substrates within installation tolerances; surfaces that are smooth, clean, and free of deleterious substances, and application conditions within environmental limits. Proceed with installation only after unsatisfactory conditions have been corrected.
B. Prepare substrates and adjoining surfaces according to manufacturer's written instructions, including, but not limited to, filler and primer application.
C. Where Drawings indicate dimensions of existing construction verify by field measurement. Where fabricated products are to be fitted to other construction verify dimensions by field measurement before fabricating and, when possible, allow for fitting and trimming during installation.
3.2 CUTTING AND PATCHING
A. Do not cut structural members without prior written approval of Structural Engineer.
B. For patching, provide materials whose installed performance will equal or surpass that of existing materials. For exposed surfaces, provide or finish materials to visually match existing adjacent surfaces to the fullest extent possible.
3.3 INSTALLATION
A. Comply with manufacturer's written instructions for installation. Anchor each product securely in place, accurately located and aligned. Clean exposed surfaces and protect from damage. If applicable, prepare surfaces for field finishing.
B. Comply with NFPA 70 for installation of electrically operated equipment and electrical components and materials.
3.4 FINAL CLEANING
A. Clean each surface or item as follows before requesting inspection for certification of Substantial Completion:
1. Remove labels that are not permanent.
2. Clean transparent materials, including mirrors. Remove excess glazing compounds. Replace chipped or broken glass.
3. Clean exposed finishes to a dust-free condition, free of stains, films, and foreign substances. Leave concrete floors broom clean.
4. Vacuum carpeted surfaces and wax resilient flooring.
5. Wipe surfaces of mechanical and electrical equipment. Remove excess lubrication. Clean plumbing fixtures. Clean light fixtures and lamps.
6. Clean the site. Sweep paved areas, remove stains, spills, and foreign deposits. Rake grounds to a smooth, even-textured surface.
3.5 CLOSEOUT PROCEDURES
A. Request Substantial Completion inspection once the following are complete:
1. Advise Owner of pending insurance changeover requirements.
2. Submit Record Drawings and Specifications, maintenance manuals, warranties, and similar record information.
3. Deliver spare parts, extra materials, and similar items.
4. Changeover locks and transmit keys to Owner.
5. Complete startup testing of systems and instruction of operation and maintenance personnel.
6. Remove temporary facilities and controls.
7. Complete final cleanup.
8. Touch up, repair, and restore marred, exposed finishes.
9. Obtain final inspections from authorities having jurisdiction.
10. Obtain certificate of occupancy.
B. On receipt of a request for inspection, Architect will proceed with inspection or advise Contractor of unfilled requirements. Architect will prepare the Certificate of Substantial Completion after inspection or advise Contractor of items that must be completed or corrected before the certificate will be issued.
C. Arrange for each installer of equipment that requires operation and maintenance to provide instruction to Owner's personnel. Include a detailed review of the following:
1. Startup and shutdown.
2. Emergency operations and safety procedures.
3. Noise and vibration adjustments.
4. Maintenance manuals.
5. Spare parts, tools, and materials.
6. Lubricants and fuels.
7. Identification systems.
8. Control sequences.
9. Hazards.
10. Warranties and bonds.
D. Request inspection for certification of final acceptance, once the following are complete:
1. Submit a copy of the Substantial Completion inspection list stating that each item has been completed or otherwise resolved for acceptance.
2. Submit final meter readings for utilities, a record of stored fuel, and similar data as of the date of Substantial Completion.
E. Architect will reinspect the Work on receipt of notice that the Work has been completed.
1. On completion of reinspection, Architect will prepare a certificate of final acceptance. If the Work is incomplete, Architect will advise Contractor of the Work that is incomplete or obligations that have not yet been fulfilled.
END OF SECTION 01700

DIVISION 2 - SITE CONSTRUCTION

SECTION 02230 - SITE CLEARING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations. See construction site drawing for restricted areas.
B. Salvable Improvements: Carefully remove items indicated to be salvaged and store on Owner's premises where indicated. See construction site drawing for restricted areas.
C. Notify utility locator service for area where Project is located before site clearing. See site utility drawings and specifications for mechanical, plumbing, and electrical.
PART 2 - PRODUCTS (Not Applicable)
PART 3 - EXECUTION
3.1 PREPARATION
A. Protect and maintain benchmarks and survey control points from disturbance.
B. Install erosion and sedimentation control measures before site clearing.
C. Protect site improvements to remain from damage. Restore damaged improvements to condition existing before start of site clearing.
D. Locate and clearly flag trees and vegetation to remain or to be relocated. See site drawings.
E. Protect remaining trees and shrubs from damage and maintain vegetation. Employ a licensed arborist to repair tree and shrub damage. Restore damaged vegetation. Replace damaged trees that cannot be restored to full growth, as determined by arborist.
F. Do not store materials or equipment or permit excavation within drip line of remaining trees.
G. Locate, identify, disconnect, and seal or cap off utilities indicated to be removed.
3.2 SITE CLEARING
A. Strip topsoil. Stockpile topsoil that will be reused in the Work.
B. Remove obstructions, trees, shrubs, grass, and other vegetation to permit installation of new construction. Removal includes digging out stumps and obstructions and grubbing roots.
C. Remove existing above- and below-grade improvements as indicated and as necessary to facilitate new construction.
D. Remove slabs, paving, curbs, gutters, and aggregate base as indicated.
E. In areas not to be further excavated, fill depressions resulting from site clearing. Place and compact satisfactory soil materials in 6-inch thick layers to density of surrounding original ground.
F. Dispose of waste materials, including trash, debris, and excess topsoil, off Owner's property. Burning waste materials on-site is not permitted.
END OF SECTION 02230

SECTION 02361 - TERMITE CONTROL
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: Product Data and product certificates signed by manufacturer certifying that products used comply with U.S. EPA regulations for termiticides. Include application instructions and EPA-Registered Label.
B. Engage a licensed professional pest control operator to apply termite control solution.
PART 2 - PRODUCTS
2.1 TERMITICIDES
A. Provide an EPA-registered termiticide complying with requirements of authorities having jurisdiction, in a soluable or emulsible, concentrated formulation that dilutes with water or foaming agent. Use only soil treatment solutions that are not harmful to plants. Provide quantity required for application at the label volume and rate for the maximum termiticide concentration allowed for each specific use, according to the product's EPA-Registered Label.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Prepare surfaces and apply treatment at rates and concentrations recommended in manufacturer's written instructions.
B. Apply termite control to the following:
1. At foundations.
2. Under concrete floor slabs on grade.
3. At hollow masonry.
4. At expansion and control joints and slab penetrations.
C. Post warning signs in areas of application.
D. Reapply soil termiticide treatment solution to areas disturbed by subsequent excavation or other construction activities following application.
END OF SECTION 02361

SECTION 02630 - STORM DRAINAGE
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: Coordination Drawings showing piping profiles and elevations at a horizontal scale of 1 inch equals 50 feet and a vertical scale of 1 inch equals 5 feet. Indicate underground structures and show pipe types, sizes, and materials and elevations of other utilities crossing system piping.
PART 2 - PRODUCTS
2.1 PIPE AND FITTINGS
A. Hub-and-Spigot, Cast-Iron Soil Pipe and Fittings: ASTM A 74 Service class, gray iron, for gasketed joints. Include ASTM C 564 rubber, compression-type gaskets.
B. Corrugated-Steel Pipe: ASTM A 760/A 760M, Type I, made from ASTM A 929/A 929M, zinc-coated steel sheet for banded joints.
1. Fittings: Fabricated to types indicated and according to same standards as pipe.
2. Connecting Bands: Standard couplings made for corrugated-steel pipe to form soiltight joints.
C. Corrugated PE Drainage Tubing and Fittings: AASHTO M 252, Type S, with smooth waterway for coupling joints.
1. Soiltight Couplings: AASHTO M 252, corrugated, matching tube and fittings to form soiltight joints.
D. Corrugated PE Pipe and Fittings: AASHTO M 294, Type S, with smooth waterway for coupling joints.
1. Soiltight Couplings: AASHTO M 294, corrugated, matching pipe and fittings to form soiltight joints.
E. PVC Sewer Pipe and Fittings, NPS 15 and Smaller ASTM D 3034, SDR 35, for gasketed joints. Include ASTM F 477 elastomeric-seal gaskets.
F. Special Pipe Couplings and Fittings: Rubber or elastomeric sleeve and band assembly fabricated to match OD of pipes to be joined, for nonpressure joints.
G. Gray-Iron Cleanouts: ASME A112.36.2M, round, gray-iron housing with clamping device and round, secured, scoriated, gray-iron cover. Include gray-iron ferrule with inside calk or spigot connection and countersunk, tapered-thread, brass closure plug. Use units with heavy-duty top-loading classification in vehicle-traffic service areas and medium-duty in paved foot-traffic areas.
H. Gray-Iron Area Drains: ASME A112.21.1M, round, gray-iron body with anchor flange and round, secured, gray-iron grate. Include bottom outlet with inside calk or spigot connection, of sizes indicated. Use units with heavy-duty top-loading classification in vehicle-traffic service areas and medium-duty in paved foot-traffic areas.
2.2 UTILITY STRUCTURES
A. Precast Concrete Manholes: ASTM C 478, precast, reinforced concrete, with provision for rubber gasketed joints.
1. Diameter: 48 inches minimum, unless otherwise indicated.
2. Base Section: 6-inch minimum thickness for floor slab and 4-inch minimum thickness for walls and base riser section, and having separate base slab or base section with integral floor.
3. Riser Sections: 4-inch minimum thickness.
4. Grade Rings: Include 2 or 3 reinforced-concrete rings, of 6- to 9-inch total thickness, that match a 24-inch- diameter frame and cover.
5. Gaskets: ASTM C 443, rubber.
6. Steps: ASTM C 478 individual steps oochB.*□□□r ladder. Omit steps for manholes less than 60 inches deep.
7. Pipe Connectors: ASTM C 923, resilient, of size required, for each pipe connecting to base section.
8. Frames and Covers: ASTM A 536, Grade 60-40-18, ductile-iron castings designed for heavy-duty service. Include 24-inch ID by 7- to 9-inch riser with 4-inch minimum width flange, and 26-inch- diameter cover. Include indented top design with lettering "STORM SEWER" cast into cover.
B. Precast Concrete Catch Basins: ASTM C 913, precast, reinforced concrete; designed according to ASTM C 890 for A-16, heavy-traffic, structural loading, with provision for rubber gasketed joints.
1. Gaskets: Rubber.
2. Pipe Connectors: ASTM C 923, resilient, of size required, for each pipe connecting to base section.
3. Include 24-by-24-inch- minimum flat grate with small square or short-slotted drainage openings.
C. Curb Inlets: Made with vertical curb opening, of materials and dimensions according to utility standards.
D. Protective Coatings: Coal-tar epoxy; 15-mil minimum thickness, factory or field applied to exterior surfaces of concrete structures and entire surfaces of manhole frames and covers and catch basin frames and grates.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install piping beginning at low point of systems, true to grades and alignment indicated with unbroken continuity of invert. Place bell ends of piping facing upstream.
B. Install piping pitched down in direction of flow, at minimum slope of 1 percent and 36-inch minimum cover, unless otherwise indicated.
C. Use manholes for changes in direction, unless fittings are indicated. Use fittings for branch connections, unless direct tap into existing sewer is indicated.
D. Install hub-and-spigot, cast-iron soil pipe and fittings with rubber gaskets according to CISPI's "Cast Iron Soil Pipe and Fittings Handbook," Volume I. Use gaskets that match class of pipe and fittings.
E. Install PE pipe and fittings according to ASTM D 2321. Join pipe, tubing, and fittings with couplings for soiltight joints according to manufacturer's written instructions. Install corrugated piping according to the Corrugated Polyethylene Pipe Association's "Recommended Installation Practices for Corrugated Polyethylene Pipe and Fittings."
F. Install PVC pipe and gasketed fittings with gaskets according to ASTM D 2321.
END OF SECTION 02630

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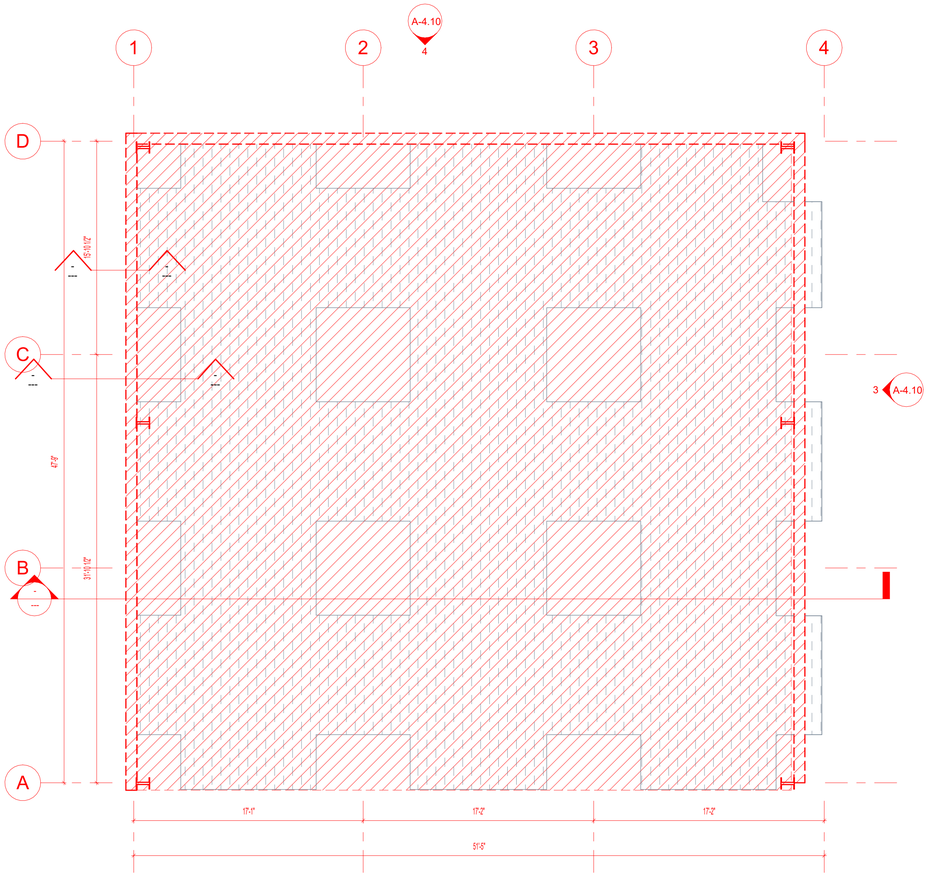
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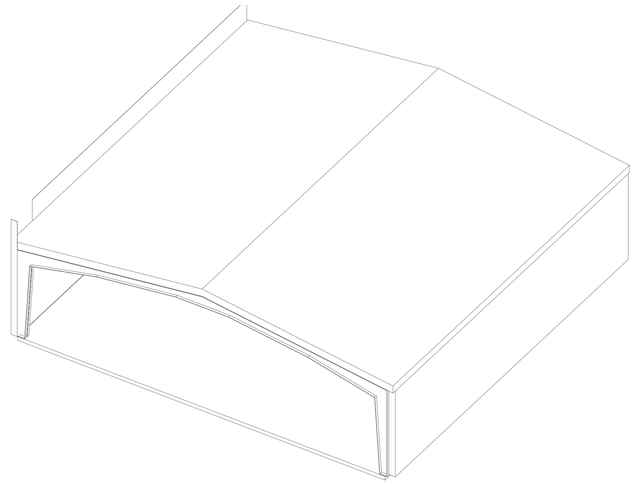
General Notes

SHEET NO:
A-0.2



2 Ground Floor Existing Demolition Plan

3/16" = 1'-0"



1 STUDIO - Existing 3d view

Project Notes

1. Dismantle and completely remove the existing 50'x50' heavy-duty red iron metal frame building and all associated enclosure materials.
2. Retain the existing concrete slab in place.
3. Saw-cut and remove specific areas of the existing slab as indicated on the foundation plan to prepare for new structural tie-ins.
4. Construct new reinforced concrete columns and beams, integrated with new CMU walls.
5. Execute Phase 1 of the new build, establishing a 16'-0" high structural enclosure.
6. Frame and install three new garage doors at the front elevation, along with all new exterior windows.
7. Rough-in and finish the interior layout to include one powder room and one dedicated electrical room.

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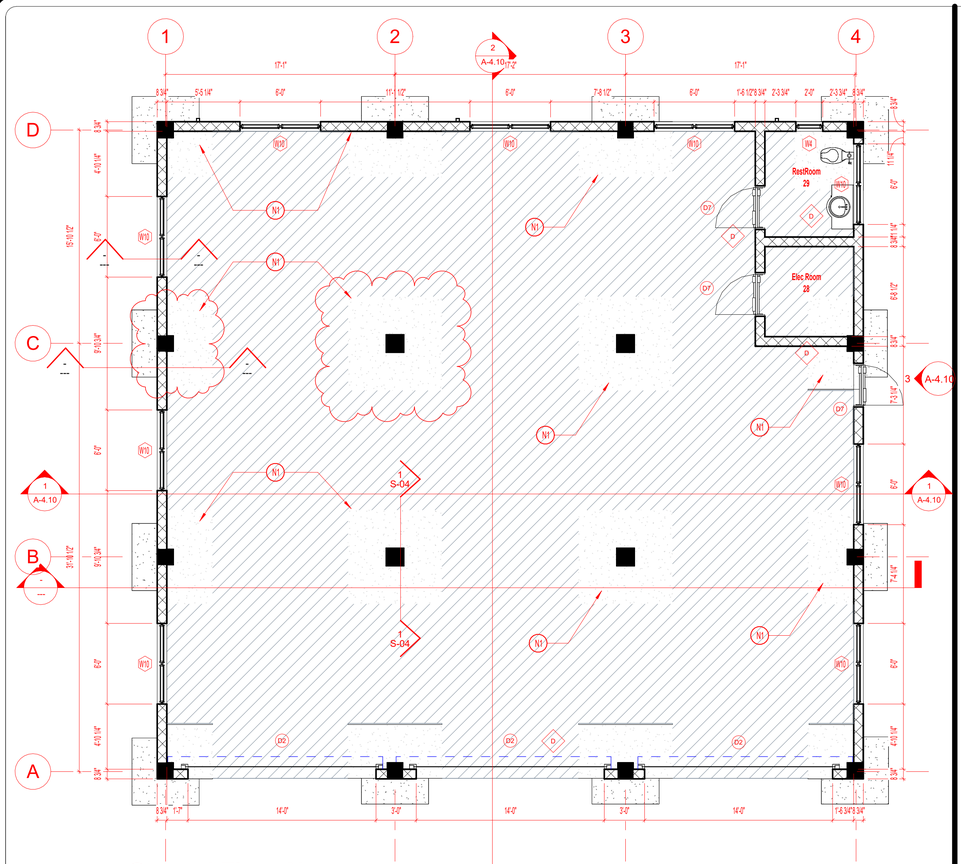
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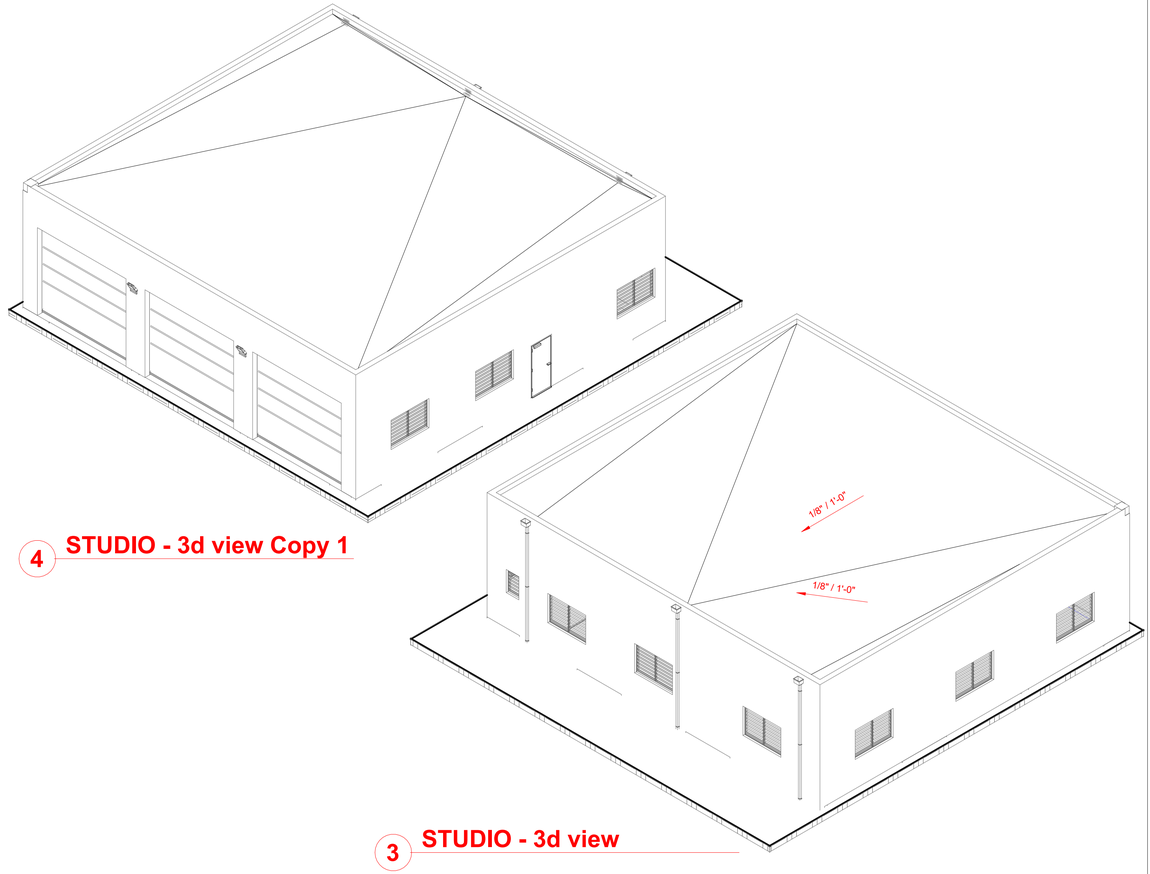
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Floor Plans - Existing

SHEET NO:
A-1.00

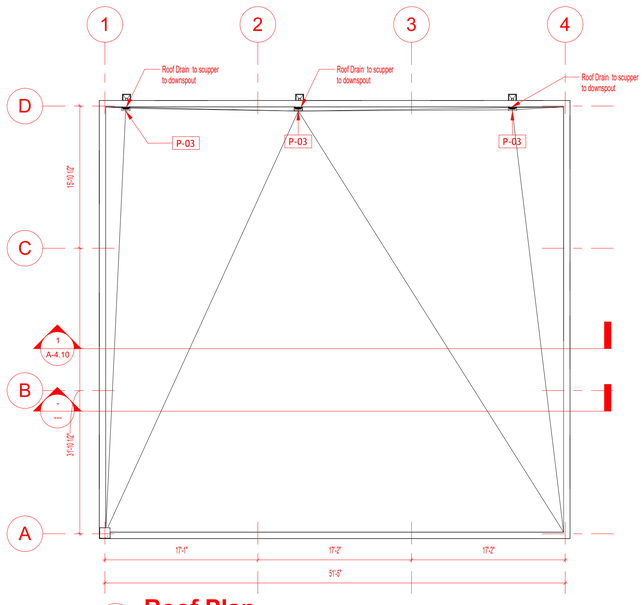


1 Ground Floor New
3/16" = 1'-0"



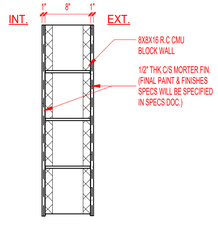
4 STUDIO - 3d view Copy 1

3 STUDIO - 3d view



2 Roof Plan
1/8" = 1'-0"

DEMOLITION NOTES	
Text	iNFO
N1	Saw-cut and remove the required area of the existing 8" concrete slab. Excavate to the required depth and cast the new concrete pad footing and column. Drill into the cut face of the existing slab and install three 1/2" steel rebar dowels per side around the column to bridge the cold joint. Backfill the excavation and pour the new concrete slab infill to match the 8" thickness and elevation of the existing floor.



Type D

Wall Types
1" = 1'-0"

EXISTING AREA TO BE DEMOLISHED OR REPLACED

EXISTING AREA

NEW CONSTRUCTION

NOTE - Only applies to new & demolition drawings

Demollition Legend
1/2" = 1'-0"

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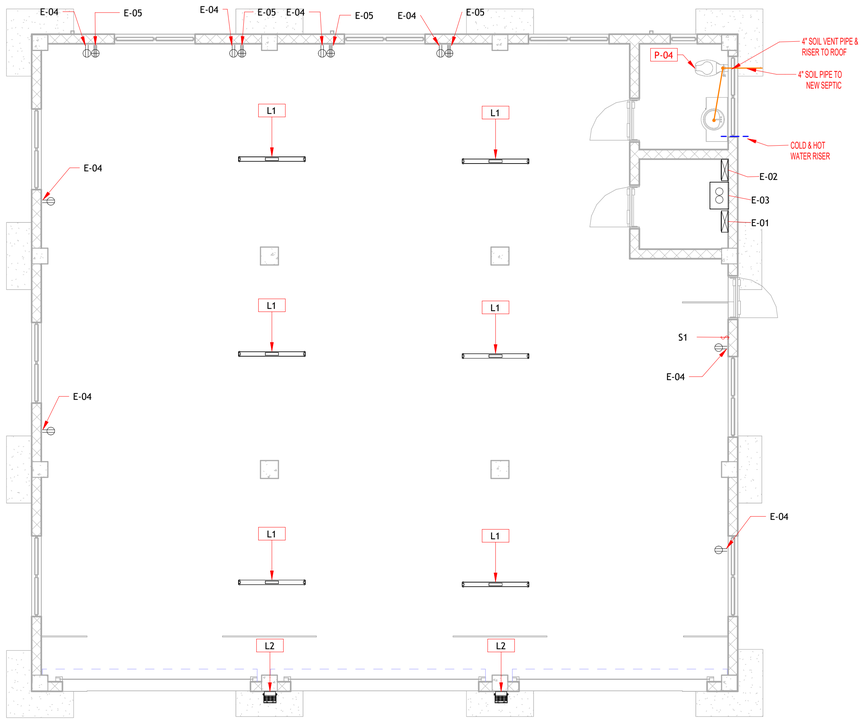
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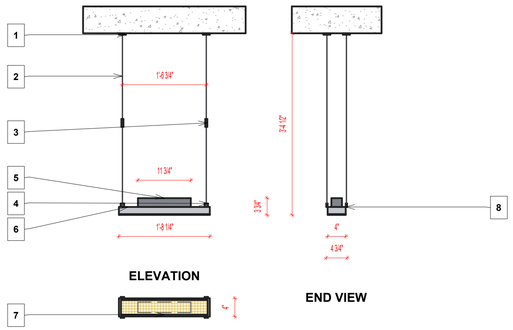
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Ground Floor Plan Complete

SHEET NO:
A-1.03



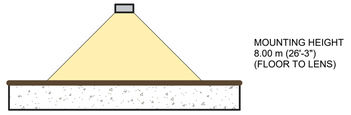
1 Ground Floor Services Plan
3/16" = 1'-0"



ELEVATION

END VIEW

PLAN (UNDERSIDE)



MOUNTING HEIGHT
8.00 m (26'-3")
(FLOOR TO LENS)

COVERAGE ACROSS ABOUT 16.10 m (52'-10") WIDE (90 DEG)

BEAM COVERAGE - DIAGRAMMATIC (1/20 OF DETAIL SCALE)

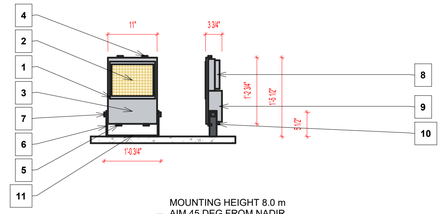
LED LINEAR HIGH BAY L1 - DETAIL

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

LED LINEAR HIGH BAY L1 - COMPONENTS

1. ANCHOR TO STRUCTURE (FIXING BY OTHERS, RATED 5x FIXTURE WEIGHT)
2. STEEL WIRE ROPE ON Y-HANGER, 1030 mm (3'-4 1/2") NOMINAL DROP
3. HEIGHT-ADJUSTING WIRE GRIPPER
4. HANGER BRACKET (BOTH ENDS)
5. INVENTRONICS DRIVER 100-277 VAC, 1-10V / DALI
6. ALUMINIUM HOUSING 515.8 mm (1'-8 1/4") x 102.6 mm (1 LED MODULE)
7. POLYCARBONATE LENS OVER LUMILEDS 2835 LED ARRAY
8. POWER: FLEX CORD FROM JUNCTION BOX, EARTHED (CLASS I)

2 L1 - LED LINEAR HIGH BAY DETAIL
3/4" = 1'-0"



MOUNTING HEIGHT 8.0 m
AIM 45 DEG FROM NADIR

AIM POINT 8.0 m - BEAM (50%) ON GROUND FROM 2.1 m TO 32.1 m FROM THE POLE

FRONT ELEVATION **SIDE ELEVATION**

AIMING DIAGRAM - DIAGRAMMATIC (1/40 OF DETAIL SCALE)

LED FLOOD LIGHT FL1 - DETAIL

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

LED FLOOD LIGHT FL1 - COMPONENTS

1. TEMPERED GLASS COVER WITH UV-RESISTANT POLYCARBONATE LENS
2. LED ARRAY (5050 CHIPS, LUMILEDS) WITH HIGH-REFLECTIVITY REFLECTOR, 60D OPTIC
3. HIGH-PRESSURE DIE-CAST ALUMINIUM HOUSING 447 x 321 x 90 mm (M VERSION, 4.4 kg)
4. TOOLLESS OPEN CLIP (COVER RELEASE)
5. BUCKLE CLIP
6. ADJUSTABLE STEEL U-BRACKET, 0-270 DEG
7. PIVOT / ANGLE-LOCK BOLT (BOTH SIDES)
8. HEAT SINK FINS
9. DRIVER COMPARTMENT: PROGRAMMABLE DRIVER WITH BUILT-IN 10 kV SPD, EXTERNAL ANTI-FOG VENT
10. IP66 CABLE GLAND - OUTDOOR FLEX CABLE TO WEATHERPROOF JUNCTION BOX
11. FIX BRACKET TO POLE / WALL / SLAB - FIXINGS BY OTHERS
12. AIM POINT AT 8.0 m FROM POLE, 45 DEG FROM NADIR

3 FL1 - LED FLOOD LIGHT DETAIL
3/4" = 1'-0"

MEP Services Schedule				
Type Mark	Category	Family and Type	Description	Count
E-01	Electrical Equipment	GS Panel 120V: Panel 120V	Electrical Panelboard - 120V	1
E-02	Electrical Equipment	GS Panel 230V: Panel 230V	Electrical Panelboard - 230V	1
E-03	Electrical Equipment	GS Transformer 230-120V: Transformer 230-120V	Step-Down Transformer 230-120V	1
E-04	Electrical Fixtures	M_Outlet-Duplex: Single	Duplex Receptacle Outlet	8
E-05	Electrical Fixtures	M_Outlet-Triplex: Triple	Triplex Receptacle Outlet	4
P-01	Generic Models	Desague vertical - 3D - Generico - Modelo PVC - Desague vertical: Desague vertical - 3D - Generico - Modelo PVC - Desague vertical	Vertical Rainwater Downpipe - PVC	3
S1	Lighting Devices	Lighting Switches: Single Pole		1
L2	Lighting Fixtures	LED Flood Light ENFL 3D: ENFL-60W-03 25D	LED flood light, IP66, adjustable bracket (Eneltec ENFL)	2
L1	Lighting Fixtures	LED Linear High Bay ENHB 3D: ENHB-320W-11 320W	LED linear high bay, 170 lm/W (Eneltec ENHB)	6
P-03	Plumbing Fixtures	Drain-Scupper-Zurn-Z189-Flush_Strainer-45_Degree_Outlet : Load Family Type Catalog	Scupper Drain	3
P-04	Plumbing Fixtures	Toilet-Floor-Mounted-2_Reed: Toilet-Wall-Mounted-2		1

Grand total: 31

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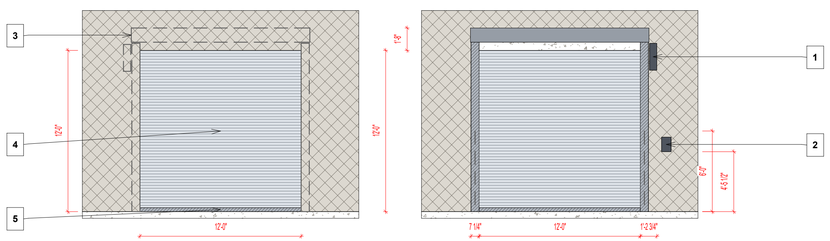
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Services

SHEET NO:
A-1.04

Window Schedule - Proposed						
Type Mark	Mark	Count	Type	Width	Height	Description
W4	143	1	1 bay 2'6 x 2'6	2'-0"	3'-2"	1 Bay Metal Lourve Window
W10	120	1	2 bay 36 x 72 2	6'-0"	4'-0"	2 Bay Metal Lourve Window
W10	121	1	2 bay 36 x 72 2	6'-0"	4'-0"	2 Bay Metal Lourve Window
W10	123	1	2 bay 36 x 72 2	6'-0"	4'-0"	2 Bay Metal Lourve Window
W10	136	1	2 bay 36 x 72 2	6'-0"	4'-0"	2 Bay Metal Lourve Window
W10	137	1	2 bay 36 x 72 2	6'-0"	4'-0"	2 Bay Metal Lourve Window
W10	139	1	2 bay 36 x 72 2	6'-0"	4'-0"	2 Bay Metal Lourve Window
W10	140	1	2 bay 36 x 72 2	6'-0"	4'-0"	2 Bay Metal Lourve Window
W10	141	1	2 bay 36 x 72 2	6'-0"	4'-0"	2 Bay Metal Lourve Window
W10	142	1	2 bay 36 x 72 2	6'-0"	4'-0"	2 Bay Metal Lourve Window

Door Schedule - Proposed					
Type Mark	Count	Mark	Scheduled Height	Scheduled Width	DESCRIPTION
D2	1	D41	12'-0"	14'-0"	Roll Up Door
D2	1	D42	12'-0"	14'-0"	Roll Up Door
D2	1	D43	12'-0"	14'-0"	Roll Up Door
D7	1	D52	7'-0"	3'-0"	Hollow Metal Door
D7	1	D53	7'-0"	3'-0"	Hollow Metal Door
D7	1	D54	7'-0"	3'-0"	Hollow Metal Door



FRONT ELEVATION (EXTERIOR) INTERIOR ELEVATION (COIL SIDE)

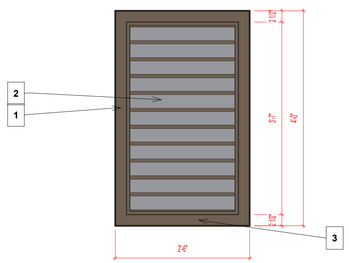
ROLLING SERVICE DOOR RD1 - DETAIL

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

ROLLING SERVICE DOOR RD1 - COMPONENTS

1. DIRECT-DRIVE MOTOR OPERATOR (RIGHT SIDE)
2. NEMA 4X CONTROL BOX - APEX PRO SMARTCONTROLLER
3. HOOD, GUIDES AND MOTOR ON THE COIL SIDE (HIDDEN FROM OUTSIDE)
4. CURTAIN - EXTERIOR FACE, CYCLESHIELD OR STAINLESS FINISH
5. BOTTOM BAR WITH FULL-WIDTH ASTRAGAL

1 RD1 - ROLLING SERVICE DOOR DETAIL
3/4" = 1'-0"



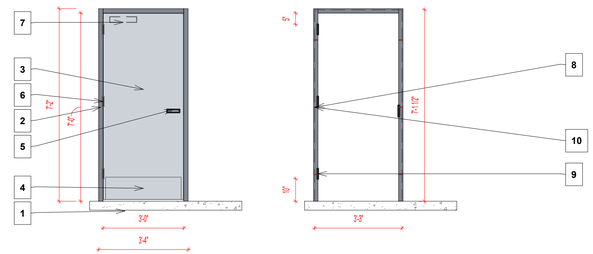
WINDOW ELEVATION - W1 - JALOUSIE (METAL LOUVRE) (W16)

SCALE: 3/4" = 1'-0" (VIEWED FROM EXTERIOR)

WINDOW W1 - COMPONENTS

1. FRAME 2 1/2" FACE x 4 5/8" DEEP, FLUSH IN WALL
2. JALOUSIE - ALUMINIUM (STORM) LOUVRE BLADES ON OPERATOR, 11 BLADES @ 3 1/2"
3. SILL WITH SLOPED SUB-SILL / SILL PAN FLASHING

3 W1 - WINDOW ELEVATION - JALOUSIE (METAL LOUVRE)
3/4" = 1'-0"



DOOR ELEVATION (PUSH SIDE) FRAME ELEVATION

HOLLOW METAL DOOR HM1 - DETAIL

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

HOLLOW METAL DOOR HM1 - COMPONENTS

1. SMOKE / WEATHERSTRIP GASKET ON THE STOP
2. HOLLOW METAL FRAME - CMU
3. FLUSH DOOR - SEAMLESS EDGES
4. KICK PLATE 10in HIGH, 0.050in STAINLESS, PUSH SIDE
5. LEVER LOCKSET, STRIKE CL 40-5/16in AFF
6. 3 HINGES PER LEAF 4-1/2 x 4-1/2in BALL BEARING, NRP (PULL SIDE)
7. CLOSER (PULL SIDE, HIDDEN)
8. WALL ANCHORS - 3 PER JAMB (SDI: 3 TO 7'-6", +1 PER 2'-0")
9. HINGE / STRIKE REINFORCEMENT PREPS (7 GA HINGE, 12 GA STRIKE)
10. MASONRY OPENING (HIDDEN): 3'-3" x 7'-1 1/2"

2 HM1 - HOLLOW METAL DOOR DETAIL
3/4" = 1'-0"

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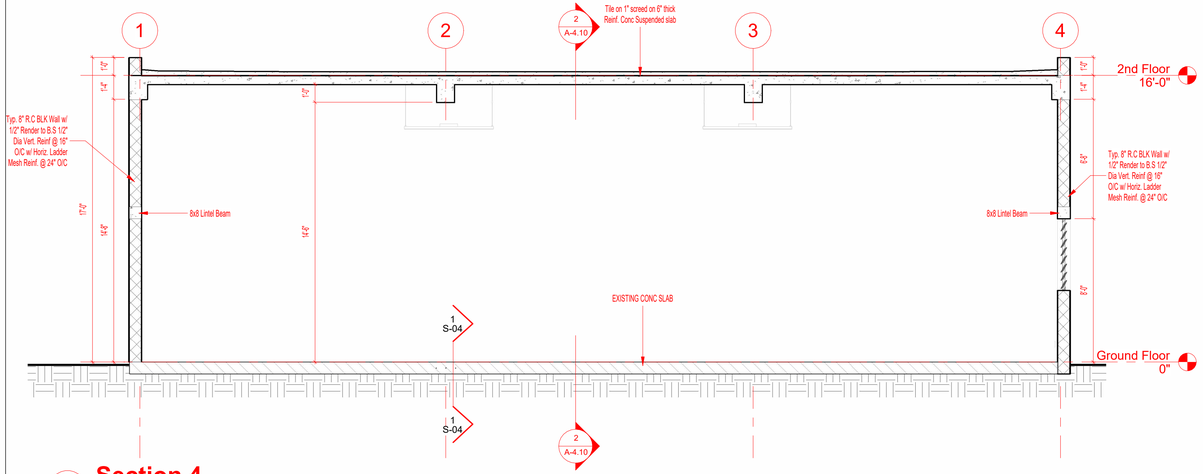
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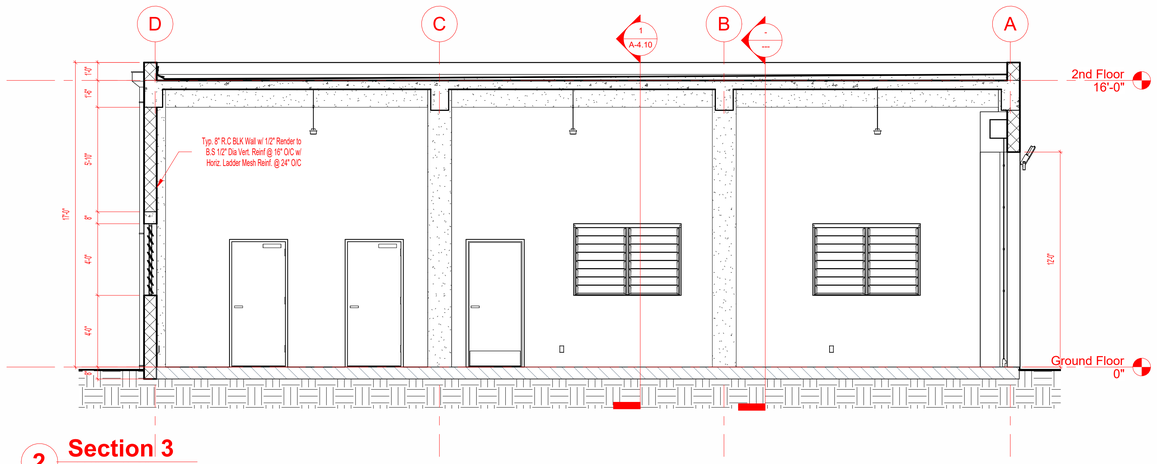
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Window & Door Details

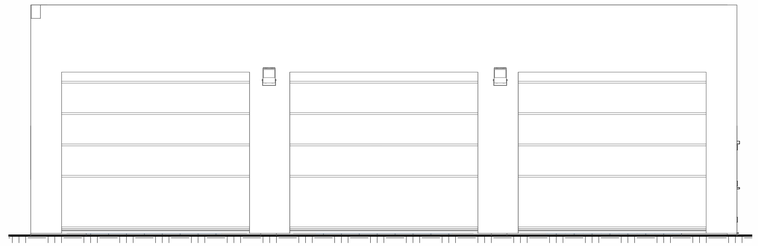
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A-1.40



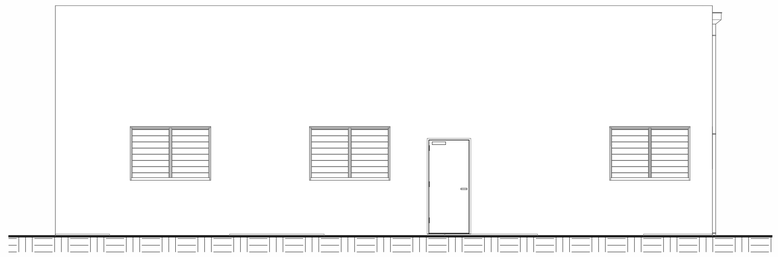
1 Section 4
1/4" = 1'-0"



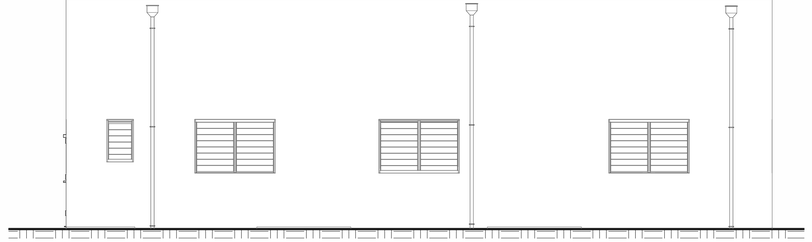
2 Section 3
1/4" = 1'-0"



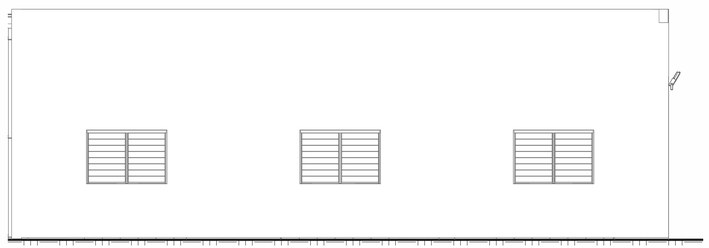
5 South
3/16" = 1'-0"



3 East
3/16" = 1'-0"



4 North
3/16" = 1'-0"



6 West
3/16" = 1'-0"

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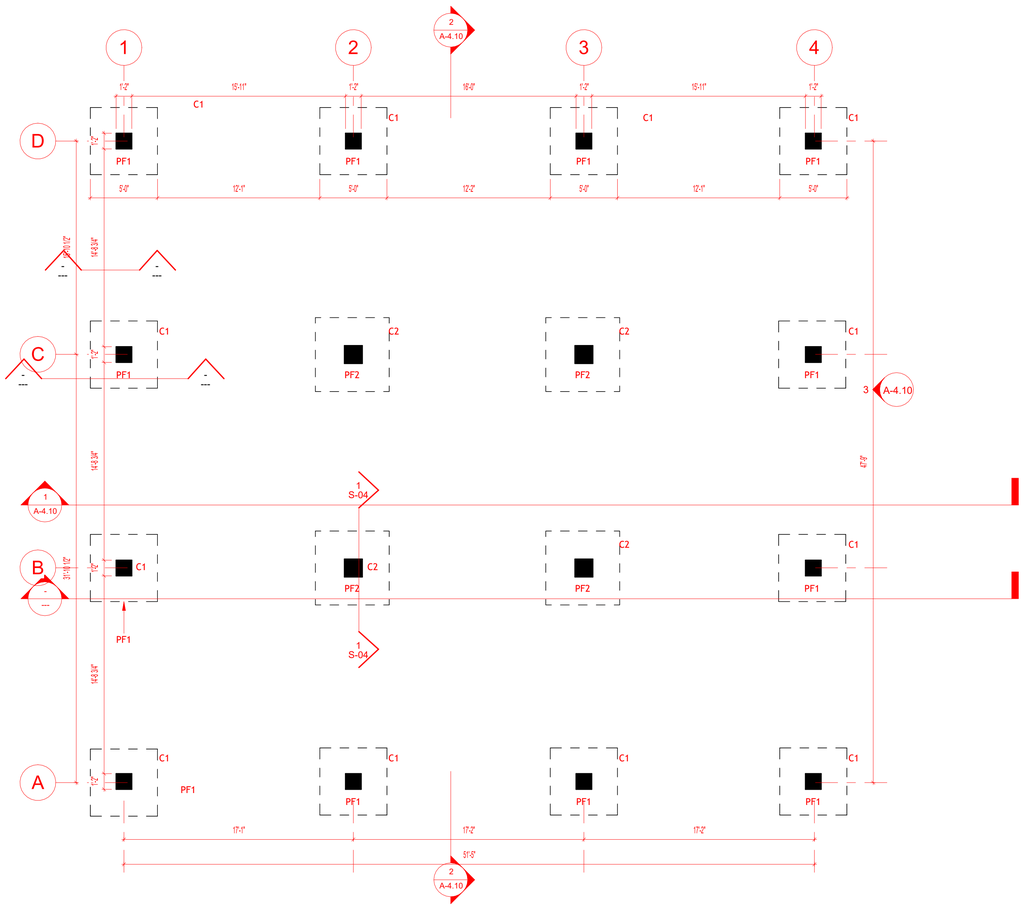
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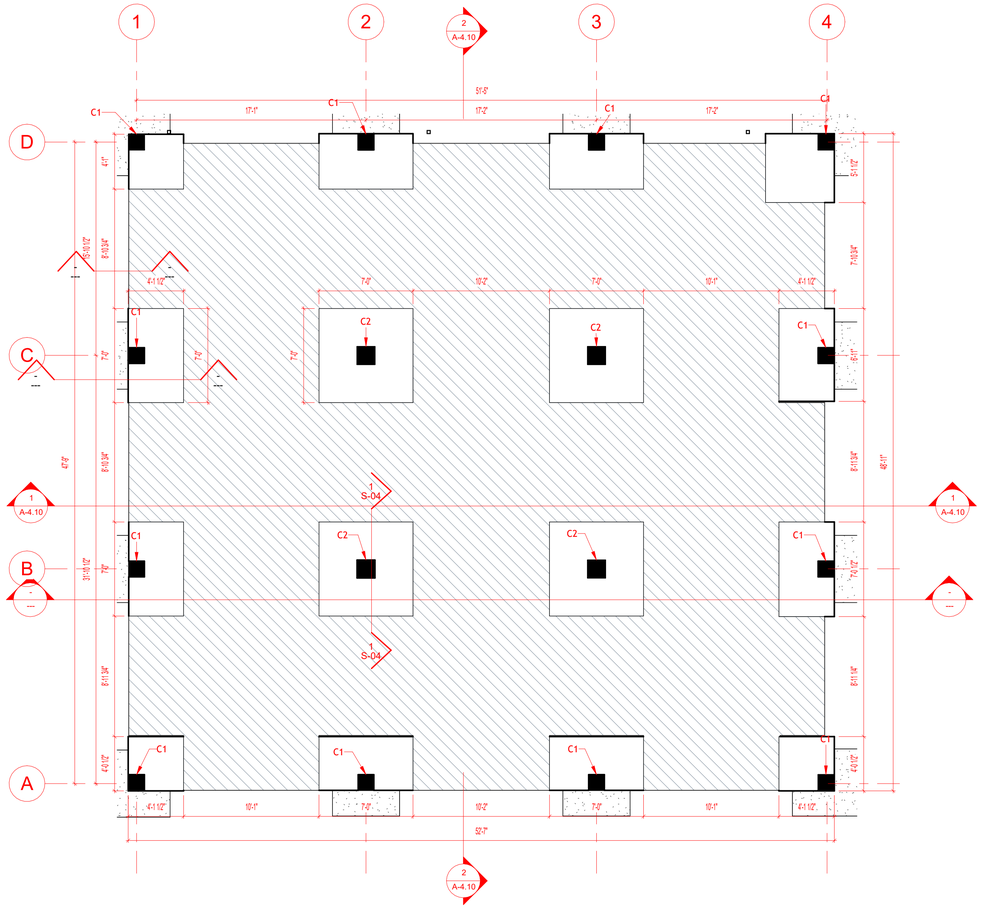
DATE: 10/14/2020
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Sections & Elevations

SHEET NO:
A-4.10



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



2 Ground Floor Framing
3/16" = 1'-0"

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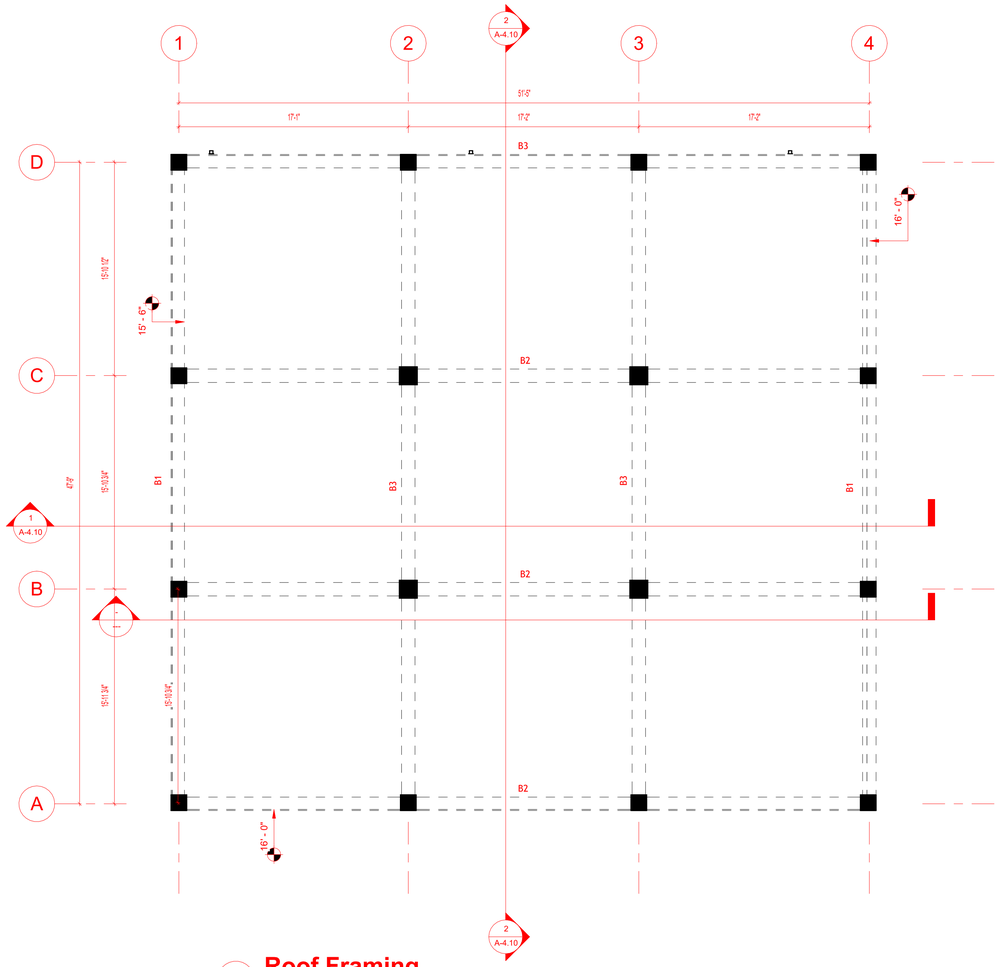
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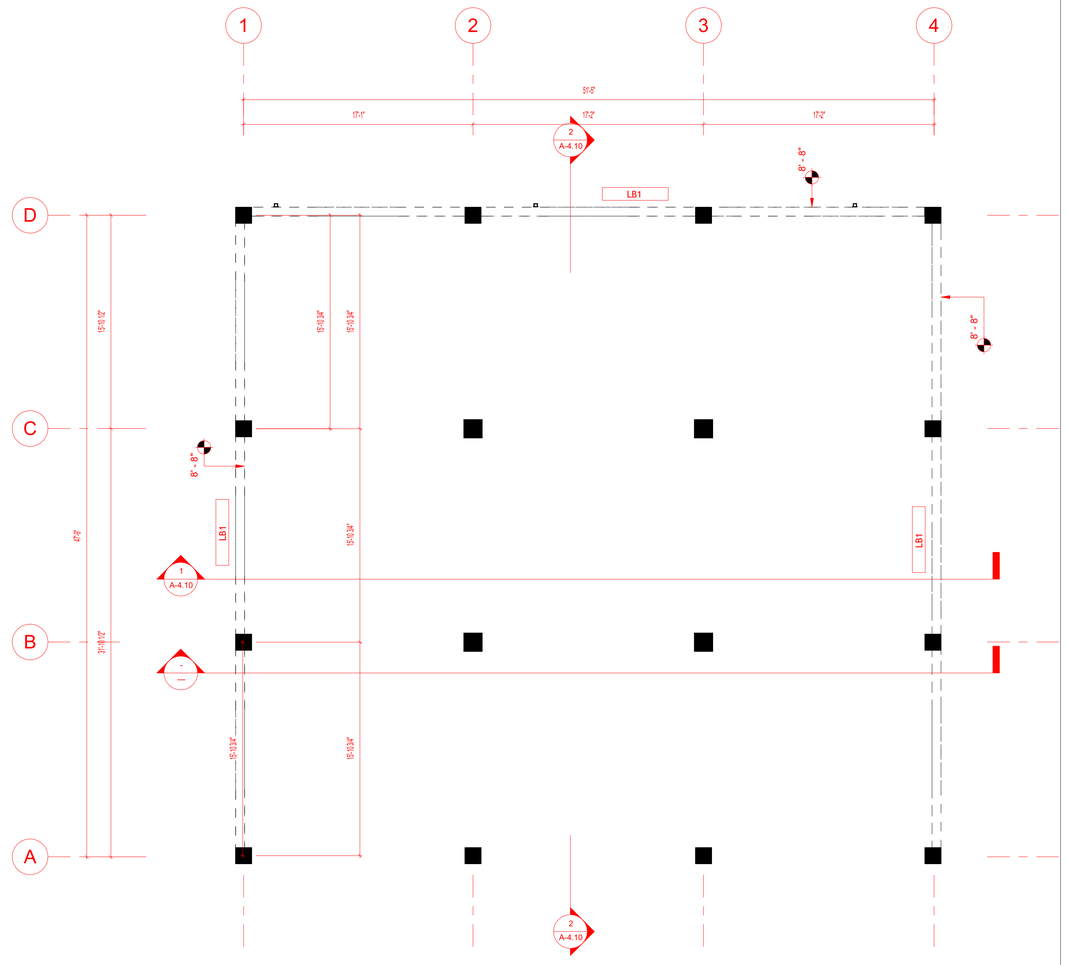
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Structrual Plans

SHEET NO:
S-01



1 **Roof Framing**
3/16" = 1'-0"



2 **Mid Span Beam Plan**
3/16" = 1'-0"

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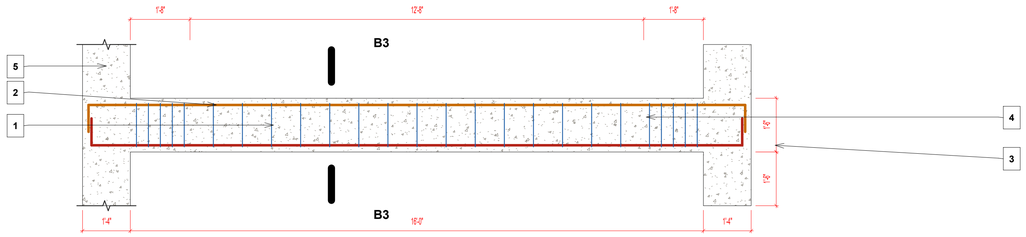
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Structrual Plans

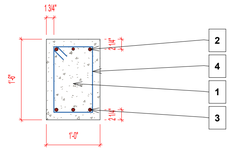
SHEET NO:
S-02



ELEVATION

BEAM ELEVATION B3 - DETAIL

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



SECTION

BEAM ELEVATION B3 - COMPONENTS

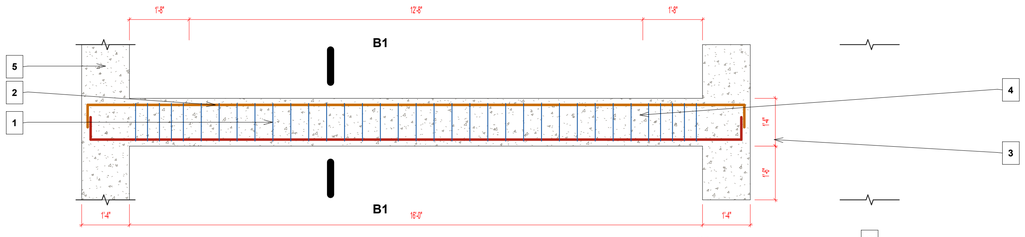
1. RC BEAM 1'-0" x 1'-6", CLEAR SPAN 20'-0" (SECTION: BEAM SECTION B3)
2. 2-#6 (3/4"Ø) CORNER + 1-#5 (5/8"Ø) MIDDLE TOP BARS, CONTINUOUS, 90° HOOKS (LEG 9") INTO SUPPORTS
3. 3-#6 (3/4"Ø) BOTTOM BARS, CONTINUOUS, 90° HOOKS (LEG 9") INTO SUPPORTS
4. #3 (3/8"Ø) CLOSED STIRRUPS, 2 LEGS: FIRST 2" FROM EACH FACE, 5 @ 4" LEFT END, 5 @ 4" RIGHT END, 20 @ 9 3/4" MAX. BETWEEN
5. SUPPORT (COLUMN / WALL), 1'-4" LEFT, 1'-4" RIGHT

3 B3 - BEAM ELEVATION DETAIL
1/2" = 1'-0"

BEAM SECTION B3 - COMPONENTS

1. RC BEAM 1'-0" WIDE x 1'-6" DEEP
2. 2-#6 (3/4"Ø) CORNER + 1-#5 (5/8"Ø) MIDDLE TOP BARS, CONTINUOUS
3. 3-#6 (3/4"Ø) BOTTOM BARS, CONTINUOUS
4. #3 (3/8"Ø) CLOSED STIRRUPS @ 6" O.C., 2 LEGS, 135° HOOKS

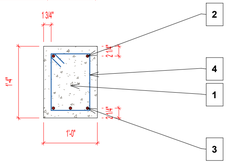
9 B3 - BEAM SECTION DETAIL
3/4" = 1'-0"



ELEVATION

BEAM ELEVATION B1 - DETAIL

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



SECTION

BEAM SECTION B1 - DETAIL

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

BEAM ELEVATION B1 - COMPONENTS

1. RC BEAM 1'-0" x 1'-4", CLEAR SPAN 20'-0" (SECTION: BEAM SECTION B1)
2. 2-#5 (5/8"Ø) TOP BARS, CONTINUOUS, 90° HOOKS (LEG 7 1/2") INTO SUPPORTS
3. 3-#5 (5/8"Ø) BOTTOM BARS, CONTINUOUS, 90° HOOKS (LEG 7 1/2") INTO SUPPORTS
4. #3 (3/8"Ø) CLOSED STIRRUPS, 2 LEGS: FIRST 2" FROM EACH FACE, 5 @ 4" LEFT END, 5 @ 4" RIGHT END, 33 @ 6" MAX. BETWEEN
5. SUPPORT (COLUMN / WALL), 1'-4" LEFT, 1'-4" RIGHT

1 B1 - BEAM ELEVATION DETAIL
1/2" = 1'-0"

BEAM SECTION B1 - COMPONENTS

1. RC BEAM 1'-0" WIDE x 1'-4" DEEP
2. 2-#5 (5/8"Ø) TOP BARS, CONTINUOUS
3. 3-#5 (5/8"Ø) BOTTOM BARS, CONTINUOUS
4. #3 (3/8"Ø) CLOSED STIRRUPS @ 6" O.C., 2 LEGS, 135° HOOKS

7 B1 - BEAM SECTION DETAIL (2)
3/4" = 1'-0"



SECTION

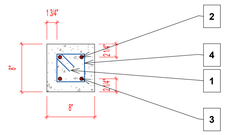
SUSPENDED SLAB S1 - DETAIL

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

SUSPENDED SLAB S1 - COMPONENTS

1. SUSPENDED SLAB 6" THICK, CLEAR SPAN 10'-0"
2. #4 @ 6" O.C. BOTTOM, MAIN (SPAN DIRECTION), CONTINUOUS
3. #4 @ 8" O.C. BOTTOM DISTRIBUTION / TEMPERATURE BARS
4. #3 @ 10" O.C. TOP OVER SUPPORTS, EXTEND 3'-9" PAST FACE OF BEAM
5. #3 @ 1'-0" O.C. TOP DISTRIBUTION BARS
6. SUPPORTING BEAM 1'-0" x 2'-0" (SEE BEAM SCHEDULE)
7. 1 3/4" CLEAR COVER TOP AND BOTTOM

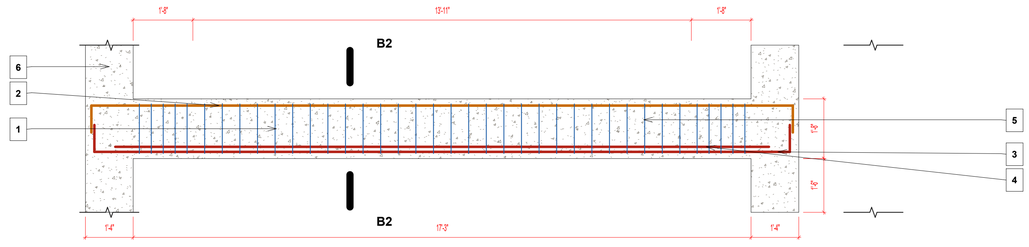
10 S1 - SUSPENDED SLAB DETAIL
1/2" = 1'-0"



BEAM SECTION LINTEL BEAM - COMPONENTS

1. RC BEAM 8" WIDE x 8" DEEP
2. 2-#5 (5/8"Ø) TOP BARS, CONTINUOUS
3. 2-#5 (5/8"Ø) BOTTOM BARS, CONTINUOUS
4. #3 (3/8"Ø) CLOSED STIRRUPS @ 6" O.C., 2 LEGS, 135° HOOKS

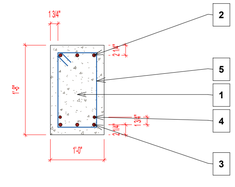
5 LINTEL BEAM LB1 - BEAM SECTION DETAIL
1" = 1'-0"



ELEVATION

BEAM ELEVATION B2 - DETAIL

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



SECTION

BEAM SECTION B2 - DETAIL

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

BEAM ELEVATION B2 - COMPONENTS

1. RC BEAM 1'-0" x 1'-8", CLEAR SPAN 20'-0" (SECTION: BEAM SECTION B2)
2. 3-#6 (3/4"Ø) TOP BARS, CONTINUOUS, 90° HOOKS (LEG 9") INTO SUPPORTS
3. 3-#6 (3/4"Ø) BOTTOM BARS, CONTINUOUS, 90° HOOKS (LEG 9") INTO SUPPORTS
4. 2-#5 (5/8"Ø) BOTTOM BARS, 2ND LAYER, EXTEND 6" INTO SUPPORTS
5. #3 (3/8"Ø) CLOSED STIRRUPS, 2 LEGS: FIRST 2" FROM EACH FACE, 5 @ 4" LEFT END, 5 @ 4" RIGHT END, 33 @ 6" MAX. BETWEEN
6. SUPPORT (COLUMN / WALL), 1'-4" LEFT, 1'-4" RIGHT

2 B2 - BEAM ELEVATION DETAIL
1/2" = 1'-0"

BEAM SECTION B2 - COMPONENTS

1. RC BEAM 1'-0" WIDE x 1'-8" DEEP
2. 3-#6 (3/4"Ø) TOP BARS, CONTINUOUS
3. 3-#6 (3/4"Ø) BOTTOM BARS, CONTINUOUS
4. 2-#5 (5/8"Ø) BOTTOM BARS, 2ND LAYER, CONTINUOUS (1" CLEAR TO 1ST LAYER)
5. #3 (3/8"Ø) CLOSED STIRRUPS @ 6" O.C., 2 LEGS, 135° HOOKS

8 B2 - BEAM SECTION DETAIL
3/4" = 1'-0"

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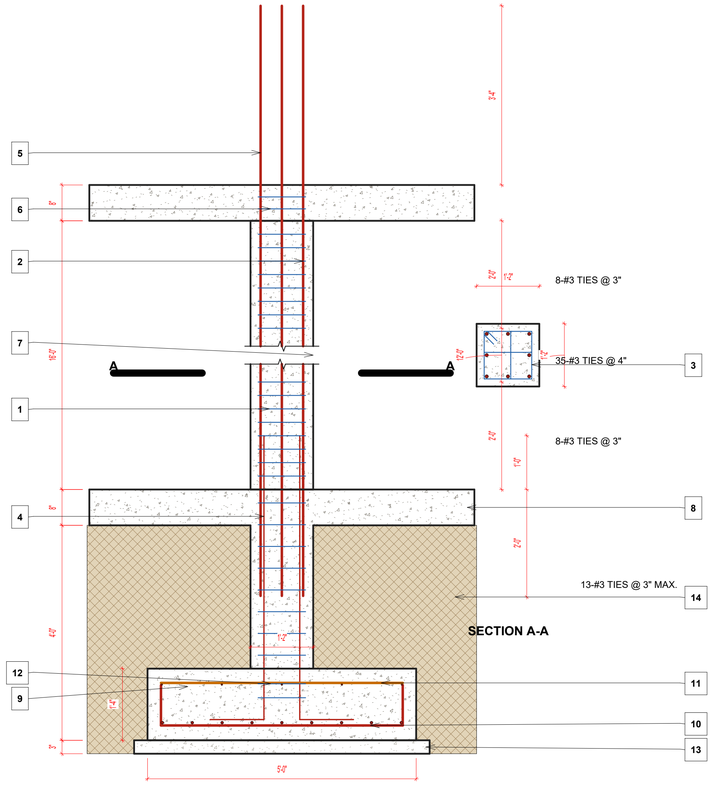
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COLUMN C1 - DETAIL

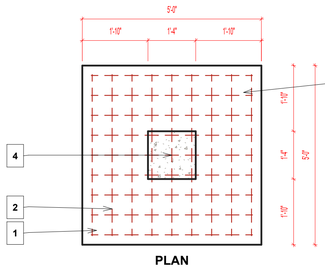
SCALE: 3/4" = 1'-0"

COLUMN C1 - COMPONENTS

1. CONCRETE COLUMN 1'-2" x 1'-2", CLEAR HEIGHT 16'-0"
2. 8-#6 VERTICAL BARS (3 PER FACE x 3 PER FACE)
3. #3 CLOSED TIES WITH 135° HOOKS, 1 1/2" CLEAR COVER; CROSSTIES AT INTERMEDIATE BARS
4. 8-#6 STARTER BARS, 1'-0" FOOT ON BOTTOM MAT, LAP 3'-0" WITH COLUMN BARS STARTING 2'-0" ABOVE GROUND SLAB
5. BARS PROJECT 1'-0" ABOVE SLAB FOR COLUMN ABOVE
6. 2-#3 TIES WITHIN BEAM / SLAB JOINT
7. COLUMN BROKEN FOR CLARITY - TIES CONTINUE @ 4" (SEE DIMENSIONS)
8. SLAB ON GRADE 8" THICK (SEE SLAB DETAIL); ISOLATION JOINT AROUND THE COLUMN
9. CONCRETE PAD FOOTING 5'-0" WIDE x 1'-4" DEEP (SEE PAD FOOTING PF1)
10. #5 @ 6" O.C. EACH WAY, BOTTOM, 90° HOOKED ENDS
11. #3 @ 1'-0" O.C. TOP
12. 2-#3 TIES IN FOOTING HOLD THE STARTER BARS
13. 3" LEAN CONCRETE BLINDING ON COMPACTED SUBGRADE
14. COMPACTED BACKFILL (95% STD. PROCTOR); GRADE 4'-0" ABOVE U/S FOOTING

4 C3 - COLUMN DETAIL

3/4" = 1'-0"

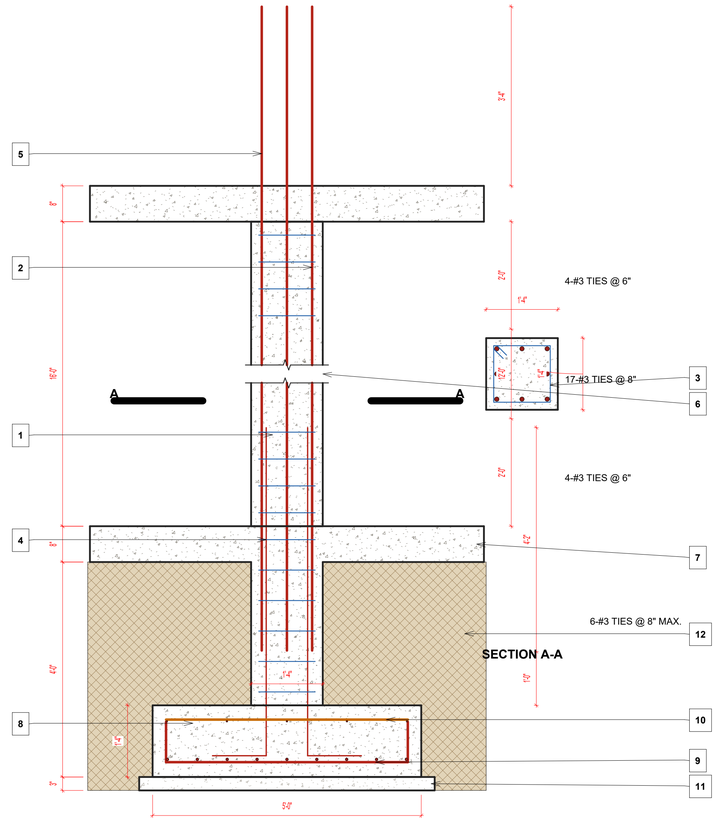


PAD FOOTING PF1 - DETAIL

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

PAD FOOTING PF1 - COMPONENTS

1. CONCRETE PAD FOOTING 5'-0" x 5'-0" x 1'-4" DEEP, U/S 4'-0" BELOW GRADE
2. #5 @ 6" O.C. EACH WAY, BOTTOM (9 + 9 BARS), 90° HOOKED ENDS
3. #3 @ 1'-0" O.C. EACH WAY, TOP
4. COLUMN 1'-4" x 1'-4" WITH 4-#8 DOWELS (SEE COLUMN DETAIL)



COLUMN C2 - DETAIL

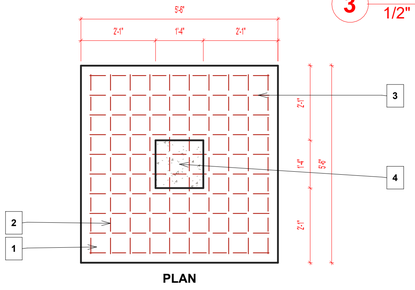
SCALE: 3/4" = 1'-0"

COLUMN C1 - COMPONENTS

1. CONCRETE COLUMN 1'-4" x 1'-4", CLEAR HEIGHT 16'-0"
2. 8-#8 VERTICAL BARS (3 PER FACE x 3 PER FACE)
3. #3 CLOSED TIES WITH 135° HOOKS, 1 1/2" CLEAR COVER
4. 8-#8 STARTER BARS, 1'-0" FOOT ON BOTTOM MAT, LAP 4'-2" WITH COLUMN BARS STARTING 1'-0" ABOVE TOP OF FOOTING
5. BARS PROJECT 1'-0" ABOVE SLAB FOR COLUMN ABOVE
6. COLUMN BROKEN FOR CLARITY - TIES CONTINUE @ 8" (SEE DIMENSIONS)
7. SLAB ON GRADE 8" THICK (SEE SLAB DETAIL); ISOLATION JOINT AROUND THE COLUMN
8. CONCRETE PAD FOOTING 5'-0" WIDE x 1'-4" DEEP (SEE PAD FOOTING PF1)
9. #5 @ 6" O.C. EACH WAY, BOTTOM, 90° HOOKED ENDS
10. #3 @ 1'-0" O.C. TOP
11. 3" LEAN CONCRETE BLINDING ON COMPACTED SUBGRADE
12. COMPACTED BACKFILL (95% STD. PROCTOR); GRADE 4'-0" ABOVE U/S FOOTING

3 PF1 - PAD FOOTING DETAIL

1/2" = 1'-0"

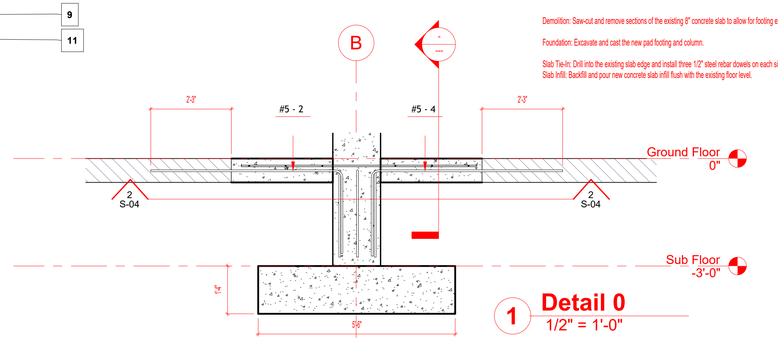


PAD FOOTING PF2 - DETAIL

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

PAD FOOTING PF2 - COMPONENTS

1. CONCRETE PAD FOOTING 5'-6" x 5'-6" x 1'-4" DEEP, U/S 4'-0" BELOW GRADE
2. #5 @ 6" O.C. EACH WAY, BOTTOM (10 + 10 BARS), 90° HOOKED ENDS
3. #3 @ 1'-0" O.C. EACH WAY, TOP
4. COLUMN 1'-4" x 1'-4" WITH 4-#8 DOWELS (SEE COLUMN DETAIL)



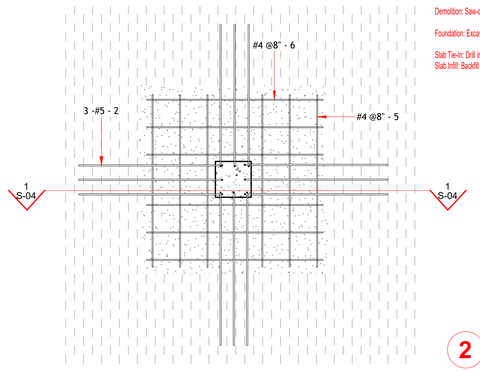
1 Detail 0

1/2" = 1'-0"

Demolition: Saw-cut and remove sections of the existing 8" concrete slab to allow for footing excavation.

Foundation: Excavate and cast the new pad footing and column.

Slab Tie-In: Drill into the existing slab edge and install three 1/2" steel rebar dowels on each side of the new column.
Slab Infill: Backfill and pour new concrete slab infill flush with the existing floor level.



2 Detail 1

3/8" = 1'-0"

Demolition: Saw-cut and remove sections of the existing 8" concrete slab to allow for footing excavation.

Foundation: Excavate and cast the new pad footing and column.

Slab Tie-In: Drill into the existing slab edge and install three 1/2" steel rebar dowels on each side of the new column.
Slab Infill: Backfill and pour new concrete slab infill flush with the existing floor level.

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TEL: (664) -491-6611 / FAX: (664) 491-6659
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DATE:	10/14/2020
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Deatils

SHEET NO:

S-04