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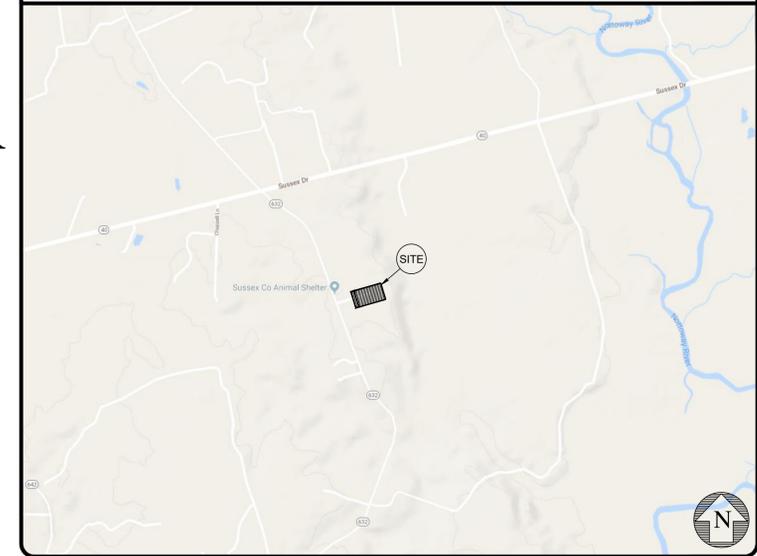
SITE DEVELOPMENT PLANS

FOR

SUSSEX COUNTY ANIMAL SHELTER SLAB AND SHED

14493 ROBINSON ROAD
STONY CREEK, VA 23882

VICINITY MAP NOT TO SCALE



CURRENT OWNER
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SUSSEX, VA 23884
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GENERAL NOTES:

- CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH SUSSEX COUNTY, VIRGINIA DEQ, AND VDOT STANDARD SPECIFICATIONS.
- THE GRADE LINES DENOTE THE FINISHED ELEVATIONS OF THE PROPOSED FINISHED PAVEMENT. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING, ENDING, AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO PROVIDE A PROPER TIE-IN.
- UNDERGROUND UTILITIES MAY EXIST ON, ALONG OR WITHIN CONFLICT OF THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING VA 811 OR THE APPROPRIATE UTILITY COMPANIES 3 FULL BUSINESS DAYS PRIOR TO ANY EXCAVATION. THE CONTRACTOR MUST FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. IN CASE OF CONFLICT, NOTIFY ENGINEER AND DO NOT CONSTRUCT.
- THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION IN ACCORDANCE WITH LOCAL CITY, COUNTY AND STATE BUILDING CODES.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE DEMOLITION OF IDENTIFIED ON SITE FACILITIES, ABOVE AND BELOW GROUND. THE CONTRACTOR IS ALSO RESPONSIBLE FOR REMOVAL OF ALL WASTE RESULTING FROM DEMOLITION, AS WELL AS GRADING AND FILLING OF ALL DEPRESSIONS TO INSURE THAT THE SITE REMAINS AESTHETICALLY ACCEPTABLE AND PROVIDES FOR DRAINAGE OF DISTURBED AREAS.
- THE CONTRACTOR SHALL OBSERVE ALL REQUIRED SAFETY PRECAUTIONS IN THE PERFORMANCE OF ALL WORK IN ACCORDANCE WITH OSHA.
- THE CONTRACTOR SHALL GRADE, SEED AND SOO OR OTHERWISE PROVIDE TEMPORARY AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, ESPECIALLY SLOPES. SEE EROSION CONTROL INSTRUCTIONS, IF APPLICABLE.
- WORK WITHIN PUBLIC RIGHT-OF-WAYS SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL REQUIREMENTS, NOTIFICATIONS, STANDARDS AND POLICIES.
- ANY SUBSTITUTIONS, CHANGES, OR MODIFICATIONS SHALL BE APPROVED BY THE PROJECT ENGINEER, AND COUNTY OF SUSSEX PRIOR TO ANY WORK.
- PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS NECESSARY TO CONSTRUCTION. THE CONTRACTOR SHALL READ ALL PERMITS AND ENSURE THAT CONSTRUCTION COMPLIES WITH THE PERMITS. REQUIRED PERMITS MAY INCLUDE, BUT ARE NOT LIMITED TO: CITY/COUNTY APPROVALS/PERMITS, VDOT PERMITS, DRIVEWAY PERMITS, EROSION CONTROL PERMITS, VDEQ PERMITS, ENVIRONMENTAL PERMITS, STREAM CROSSING PERMITS, USACE/DWQ PERMITS, AND STORMWATER PERMITS. IF THE CONTRACTOR HAS QUESTIONS ABOUT PERMIT LANGUAGE, OR THE NEED FOR A PERMIT, HE MUST CONTACT THE COUNTY AND THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
- PRIOR TO BIDDING, CONTRACTORS SHALL FIELD VERIFY EXISTING CONDITIONS AND SITE LIMITATIONS. SITE VISITS MAY BE SCHEDULED DIRECTLY WITH THE SUSSEX COUNTY ANIMAL SHELTER @ 434-246-2167. SITE VISITS MUST BE SCHEDULED AND COMPLETED BY 3 DAYS PRIOR TO BIDDING.
- PRE-ENGINEERED 22x36" METAL CARPORT SHALL MEET THE REQUIREMENTS OF SECTION 133419 - METAL BUILDING SYSTEMS ON THIS SHEET. METAL STRUCTURE SUBMITTAL MUST BE ACCOMPANIED BY AN ENGINEER SEALED COPY OF THE MANUFACTURER'S SPECIFICATIONS AND INSTALLATION (SET-UP) MANUAL TO INCLUDE ANCHORING THE STRUCTURE TO THE CONCRETE FOUNDATION.

DEMOLITION, GRADING AND DRAINAGE

- CONTRACTOR SHALL REMOVE EXISTING SLAB AS SHOWN, GRADE ALL AREAS ADJACENT TO NEW AND EXISTING CONCRETE SLAB TO ENSURE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND OFF SITE TO NATURAL CHANNELS AS APPROVED BY THE ENGINEER. PRICE FOR CONCRETE DEMOLITION, CONDUIT REMOVAL, GRADING, SEEDING, MULCH, DRAINAGE, EROSION CONTROL AND ANY OTHER NEEDED SITE WORK SHALL BE BID AS LUMP SUM.
- CONTRACTOR SHALL PROVIDE A DEMOLITION AND FILL PLAN PRIOR TO WORK FOR THE EXISTING TANK AS SHOWN IN THE DEMOLITION DETAIL. PLAN SHALL INCLUDE PROPOSED PUMPING, BACKFILL AND WASTE DISPOSAL DETAILS.

HYDRAULIC CEMENT CONCRETE

- CONCRETE SHALL BE VDOT STANDARD A3-GENERAL AND SHALL CONFORM TO THE REQUIREMENTS OF TABLE II-17 OF THE 2016 VDOT ROAD AND BRIDGE SPECIFICATIONS.
- PLACEMENT, CURING, MATERIAL, AND FINISHING SHALL BE IN COMPLIANCE WITH THE APPLICABLE VDOT 2016 ROAD AND BRIDGE SPECIFICATIONS, SECTIONS 200, 217, 220, 223, 404, 406 & 502.
- CRACK CONTROL JOINTS SHALL BE CONSTRUCTED AS SHOWN OR AS OTHERWISE DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL SCHEDULE SLAB PLACEMENT WITH PROJECT ENGINEER TO BE PRESENT FOR INSPECTION AND TESTING.



SITE LOCATION MAP
NOT TO SCALE

CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.



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SECTION 133419 - METAL BUILDING SYSTEMS

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

- Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- SUMMARY
 - Structural-steel framing.
 - Metal roof panels.
 - Metal wall panels.
 - Accessories.
- ACTION SUBMITTALS
 - Product Data: For each type of metal building system component. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for the following:
 - Structural-steel-framing system.
 - Metal roof panels.
 - Metal wall panels.
 - Accessories (Fasteners, Anchors, etc).
 - Shop Drawings: For the following metal building system components. Include plans and detail sheets.
 - Anchor-Bolt Plans: Submit anchor-bolt plans and templates before foundation work begins. Include location, diameter, and projection of anchor bolts required to attach metal building to foundation. Indicate column reactions at each location.
 - Structural-Framing Drawings: Show complete fabrication of framing.
 - Metal [Roof] [and] [Wall] Panel Layout Drawings: Show attachment details for wall and roof panels. Include details of edge conditions, joints, panel profiles, corners, anchorages, trim, flashings, closures, and special details. Distinguish between factory- and field-assembled work; show locations of exposed fasteners.

1.4. INFORMATIONAL SUBMITTALS

- Qualification Data: For qualified [erector] [manufacturer] [professional engineer].
- Welding certificates.
- Metal Building System Certificates: For each type of metal building system, from manufacturer.
 - Letter of Design Certification: Signed and sealed by a qualified professional engineer. Include the following:
 - Name and location of Project.
 - Order number.
 - Name of manufacturer.
 - Building dimensions including width, length, height, and roof slope.
 - Design Loads: Include dead load, roof live load, collateral loads, roof snow load, deflection, wind loads/speeds and exposure.
 - Load Combinations: Indicate that loads were applied acting simultaneously with concentrated loads, according to governing building code.
 - Building-Use Category: Indicate category of building use and its effect on load importance factors.
 - Erector Certificates: For each product, from manufacturer.
 - Manufacturer Certificates: For each product, from manufacturer.
- DELIVERY, STORAGE, AND HANDLING
 - Deliver components, sheets, panels, and other manufactured items so as not to be damaged or deformed. Package metal panels for protection during transportation and handling.
 - Unload, store, and erect metal panels in a manner to prevent bending, warping, twisting, and surface damage.
 - Stack metal panels horizontally on platforms or pallets, covered with suitable weatherlight and ventilated covering. Store metal panels to ensure dryness, with positive slope for drainage of water. Do not store metal panels in contact with other materials that might cause staining, denting, or other surface damage.

1.6. PROJECT CONDITIONS

- Field Measurements:
 - Coordinate anchor-bolt installation to ensure that actual anchorage dimensions correspond to established dimensions.
- COORDINATION
 - Coordinate anchor positioning with the owner's concrete pad installation contractor.
- WARRANTY
 - Special Warranty on Metal Panel Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace metal panels that show evidence of deterioration of factory-applied finishes within specified warranty period.
 - Exposed Panel Finish: Deterioration includes, but is not limited to, the following:
 - Color fading more than 5 Hunter units when tested according to ASTM D 2244.
 - Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.
 - Cracking, checking, peeling, or failure of paint to adhere to bare metal.
 - Finish Warranty Period: 10 years from date of Substantial Completion.
 - Special Metal Frame Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace the metal frame if there are any signs of deterioration or defects.
 - Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

- MANUFACTURERS
 - Manufacturers: Subject to compliance with requirements, [provide products by one of the following] [available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following]:
 - Carolina Carport, Inc.
 - American Building Company, Division of Magantra Corp.
 - American Steel Building Co., Inc.
 - Versarubec Building Systems
 - Manufacturer must comply with the requirements of the International Building Code
- METAL BUILDING SYSTEMS
 - Description: A carport style metal building. The building shall be delivered and erected by the manufacturer on a concrete slab already constructed by the owner. The building roof dimensions shall be 12' x 21' and the frame bottom dimensions are 12' x 20'. The building shall have 2 enclosed sides and 1 enclosed end. The frame and metal specifications follow.
 - Frame Type:
 - 2" square tubing
 - 12 gauge steel
 - Installed 5' on center at a minimum
 - All shop connection shall be welded
 - All tubing shall be 50 ksi steel
 - Roof Steel
 - A-frame style roof
 - Vertically installed metal panels
 - 29 gauge painted steel
 - Attached using 1/2"x1" self-drilling fasteners with control seal washers @ 6" on center max.
 - Wall Steel
 - Horizontally installed metal panels
 - 29 gauge painted steel
 - Attached using 1/2" x 1" self-drilling fasteners with control seal washers @ 6" on center max
 - Eave Height: 7 feet
 - Roof Slope: 3 inches horizontal to 1 inch vertical minimum
 - Roof System: Manufacturer's standard overlapping seam construction.
 - Exterior Wall System: Manufacturer's standard overlapping seam construction.
 - Interior Wall System: Manufacturer's standard overlapping seam construction.
 - Insert other requirements to suit Project (e.g., brick masonry for custom-designed exterior elevations).

2.3. METAL BUILDING SYSTEM PERFORMANCE

- Structural Performance: Metal building systems shall withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated according to procedures in MBMA's "Metal Building Systems Manual."
 - Design Loads: As indicated on Drawings.
 - Snow Load: 30 psf.
 - Wind Rating: 100 mph.
- Anchor Rods: Contractor shall use 1/2" x 6" minimum concrete expansion anchors.
- Finishes:
 - Steel with baked on enamel
 - Color: Blue. Building manufacturer to provide samples of available shade of blue for comparison with existing onsite buildings prior to order.

PART 3 - EXECUTION

- EXAMINATION
 - Proceed with erection only after unsatisfactory conditions have been corrected. If erector proceeds with installing unsatisfactory materials and the owner rejects these materials, the contractor will replace these at no additional charge.
- PREPARATION
 - Concrete pad will be prepared by owner prior to delivery and erection of the building.
 - Erection of Structural Framing
 - Erect metal building system according to manufacturer's written erection instructions and erection drawings.
 - Do not field cut, drill, or alter structural members without written approval from metal building system manufacturer's professional engineer.
 - Set structural framing accurately in locations and to elevations indicated, according to AISC specifications referenced in this Section. Maintain structural stability of frame during erection.
 - Level and plumb individual members of structure.
 - Align and adjust structural framing before permanently fastening. Before assembly, clean bearing surfaces and other surfaces that will be in permanent contact with framing. Perform necessary adjustments to compensate for discrepancies in elevations and alignment.
 - Make allowances for difference between temperature at time of erection and mean temperature when structure will be completed and in service.
 - Bracing: Install bracing in roof and sidewalls where indicated on erection drawings.
 - Framing for Openings: Provide shape and size to reinforce openings and to carry loads and vibrations imposed, including equipment furnished under mechanical and electrical work. Securely attach to structural framing.
 - Erection Tolerances: Maintain erection tolerances of structural framing within AISC 303.
 - METAL PANEL INSTALLATION, GENERAL
 - Examination: Examine primary and secondary framing to verify that structural-panel support members and anchorages have been installed within alignment tolerances required by manufacturer.
 - Examine roughing-in for components and systems penetrating metal panels, to verify actual locations of penetrations relative to seams before metal panel installation.
 - General: Anchor metal panels and other components of the Work securely in place, with provisions for thermal and structural movement.
 - Lap-Seam Metal Panels: Install screw fasteners using power tools with controlled torque adjusted to compress EPDM washers tightly without damage to washers, screw threads, or metal panels. Install screws in predrilled holes.
 - Arrange and nest side-lap joints so prevailing winds blow over, not into, lapped joints. Lap ribbed or fluted sheets one full rib corrugation. Apply metal panels and associated items for neat and weatheright enclosure. Avoid "panel creep" or application not true to line.
 - Metal Protection: Where dissimilar metals contact each other or corrosive substrates, protect against galvanic action by painting contact surfaces with corrosion-resistant coating, by applying rubberized-asphalt underlayment to each contact surface, or by other permanent separation as recommended by metal panel manufacturer.
 - Joint Sealers: Install gaskets, joint fillers, and sealants where indicated and where required for weatherproof performance of metal panel assemblies. Provide types of gaskets, fillers, and sealants indicated, or, if not indicated, provide types recommended by metal panel manufacturer.
- METAL PANEL INSTALLATION, METAL PANELS
 - Seal metal panel end laps with double beads of tape or sealant the full width of panel. Seal side joints where recommended by metal panel manufacturer.
 - Prepare joints and apply sealants to comply with requirements in Section 079200 "Joint Sealants."

3.5. METAL ROOF PANEL INSTALLATION

- General: Provide metal roof panels full length from eave to ridge unless otherwise indicated or restricted by shipping limitations.
 - Install ridge [and hip] caps as metal roof panel work proceeds.
 - Flash and seal metal roof panels with weather closures at eaves and rakes. Fasten with self-tapping screws.
 - Lap-Seam Metal Roof Fasteners: Fasten metal roof panels to supports with exposed fasteners at each lapped joint, at location and spacing recommended by manufacturer.
 - Provide metal-backed sealing washers under heads of exposed fasteners bearing on weather side of metal roof panels.
 - Provide sealant tape at lapped joints of metal roof panels and between panels and protruding equipment, vents, and accessories.
 - Apply a continuous ribbon of sealant tape to weather-side surface of fastenings on end laps and on side laps of nesting-type metal panels, on side laps of ribbed or fluted metal panels, and elsewhere as needed to make metal panels weatherproof to driving rains.
 - At metal panel splices, nest panels with minimum 6-inch (152-mm) end lap, sealed with butyl-rubber sealant and fastened together by interlocking clamping plates.
 - Metal Fascia Panels: Align bottom of metal panels and fasten with blind rivets, bolts, or self-drilling or self-tapping screws. Flash and seal metal panels with weather closures where fascia meet soffits, along lower panel edges, and at perimeter of all openings.
- Metal Roof Panel Installation Tolerances: Shim and align metal roof panels within installed tolerance of 1/4 inch in 20 feet (6 mm in 6 m) on slope and on location lines as indicated, and within 1/8-inch (3-mm) offset of adjoining faces and of alignment of matching profiles.

3.6. METAL WALL PANEL INSTALLATION

- General: Install metal wall panels in orientation, sizes, and locations indicated on Drawings. Install panels perpendicular to girts, extending full height of building, unless otherwise indicated. Anchor metal wall panels and other components of the Work securely in place, with provisions for thermal and structural movement.
 - Provide metal-backed sealing washers under heads of exposed fasteners bearing on weather side of metal roof panels.
 - Provide sealant tape at lapped joints of metal roof panels and between panels and protruding equipment, vents, and accessories.
 - Apply a continuous ribbon of sealant tape to weather-side surface of fastenings on end laps and on side laps of nesting-type metal panels, on side laps of ribbed or fluted metal panels, and elsewhere as needed to make metal panels weatherproof to driving rains.
 - At metal panel splices, nest panels with minimum 6-inch (152-mm) end lap, sealed with butyl-rubber sealant and fastened together by interlocking clamping plates.
 - Install metal wall panels on exterior side of girts. Attach metal wall panels to supports with fasteners as recommended by manufacturer.
- Retention Tolerances: Shim and align metal wall panels within installed tolerance of 1/4 inch in 20 feet (6 mm in 6 m), noncumulative, on level, plumb, and on location lines as indicated, and within 1/8-inch (3-mm) offset of adjoining faces and of alignment of matching profiles.

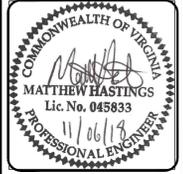
3.7. CLEANING AND PROTECTION

- Retain first paragraph below if galvanized items are required.
 - Replace metal panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.
 - After building has been erected it shall be wiped clean of debris and or stains. When erectors leave the project site the building shall look like a new building.

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ARCHITECT: BRAD HOPPE, AIA
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FIRST ISSUE DATE
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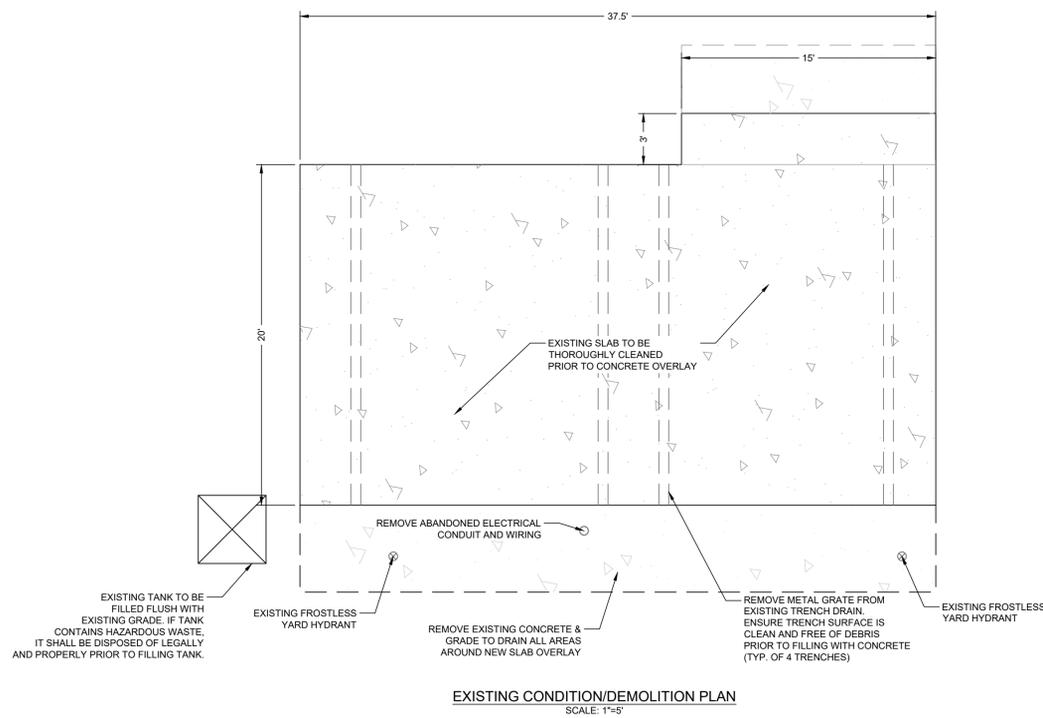
CONSTRUCTION DRAWINGS
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SLAB AND SHED
14493 ROBINSON ROAD
STONY CREEK, VA 23882

COVER SHEET

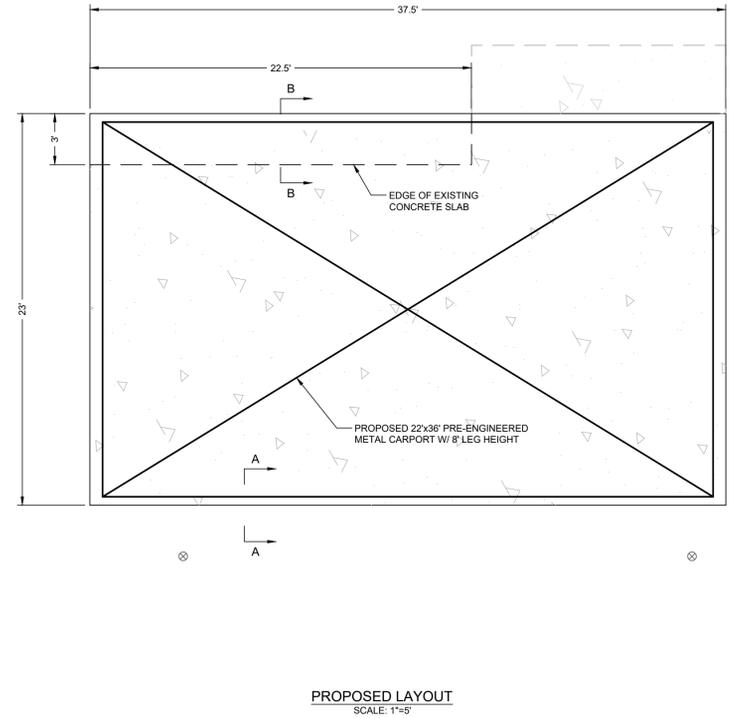
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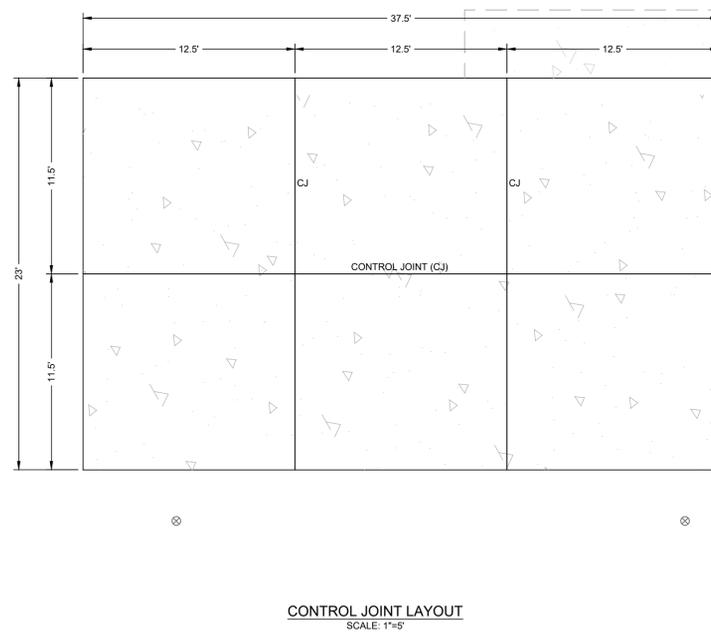
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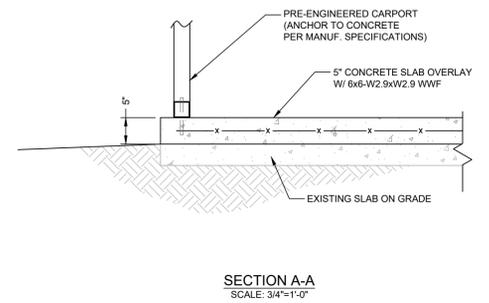
EXISTING CONDITION/DEMOLITION PLAN
SCALE: 1"=5'



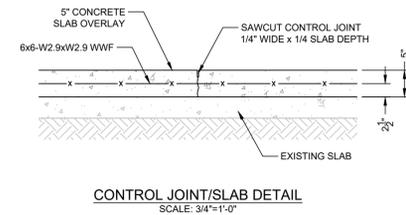
PROPOSED LAYOUT
SCALE: 1"=5'



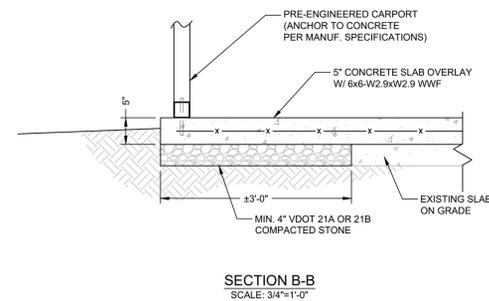
CONTROL JOINT LAYOUT
SCALE: 1"=5'



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



CONTROL JOINT/SLAB DETAIL
SCALE: 3/4"=1'-0"



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

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Know what's below.
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