



Jones County Board of Commissioners
P.O. Box 1359
Gray, GA 31032
(478) 986-6405

Jason Rizner
County Administrator

INVITATION TO BID BRIDGE RENOVATIONS

Issue Date: Thursday February 13, 2020

**JONES COUNTY BOARD OF COMMISSIONERS
166 INDUSTRIAL BLVD./P.O. BOX 1359
GRAY, GA 31032
PHONE: (478) 986-6405
ATTN: JASON RIZNER, COUNTY ADMINISTRATOR**

BIDS WILL BE RECEIVED UNTIL MARCH 12, 2020 AT 4:00 P.M.

PROPOSALS ARE TO BE SEALED AND MAILED VIA USPS, FEDEX OR UPS TO THE ABOVE ADDRESS OR HAND DELIVERED TO THE COUNTY ADMINISTRATOR'S OFFICE LOCATED IN THE JONES COUNTY GOVERNMENT CENTER AT 166 INDUSTRIAL BLVD., GRAY, GA 31032. ENVELOPES SHOULD BE MARKED WITH "SEALED BID - BRIDGE RENOVATIONS."



INVITATION TO BID

The Jones County Board of Commissioners is accepting sealed bids for renovations to a bridge on Union Hill Church Road. Sealed bids will be accepted until 4:00 PM on Thursday March 12th, 2020 when they will be opened and read aloud in the Government Center Conference Room, 166 Industrial Blvd. Gray, GA 31032. Any questions should be directed to Leslie Faulk via e-mail at leslie.faulk@jonescountyga.org.

Background:

Union Hill Church Road is a dirt road in northern Jones County that meanders through government-owned and privately-owned timberland. The bridge site is approximately 5 miles from both Georgia Highway 11 and Georgia Highway 44 (US 129) as the crow flies. Approximate GPS Coordinates are 33.150493, -83.556364.

The existing bridge has wooden cross members and tread boards. The County wishes to have the wooden elements removed and replaced with more durable materials as described in the attached plans.

Bid Requirements:

Work shall be performed in accordance with the attached drawings and specifications. A location map is attached to this bid document.

Contractor will provide a certificate of insurance as outlined in the attached insurance requirements.

Bidder is required to submit the attached Prime & Subcontractor's Work Authorization Certification and affidavit verifying status for County Public Benefit Application (Exhibit B).

Contractor shall be responsible for all signage and traffic control necessary for job construction.

Contractor shall be responsible for the removal and proper disposal of trash and debris.

General Information:

- The County reserves the right to reject and or all bids or proposals, to waive technicalities, and to make a selection and final award as deemed to be in the best interest of the County.
- Provider selection will be based on the information contained in the bids, and incomplete or inaccurate information may result in disqualification of a proposal or a bidder.
- The Jones County Board of Commissioners reserves the right to accept or reject any or all bids, to solicit additional bids, or to amend or revise bid documents.



- The proposal submitted by each proposed service provider will be treated as best and final. There will be no opportunity to negotiate fees during the selection process.
- If you plan to use subcontractors to perform any of the work described above, please identify the subcontractors you plan to use and explain the role they would play in this project.
- The County does not guarantee the purchase of any/all equipment.
- The County reserves the right to terminate any contract for this equipment and/or services for any of the following reasons:
 - a. If the equipment/service is not delivered/completed on an agreed-upon schedule.
 - b. If the equipment/services delivered is not the same equipment/services bid.
 - c. Receipt of substandard product/service.
 - d. Poor workmanship.

DRUG FREE WORKPLACE CERTIFICATION

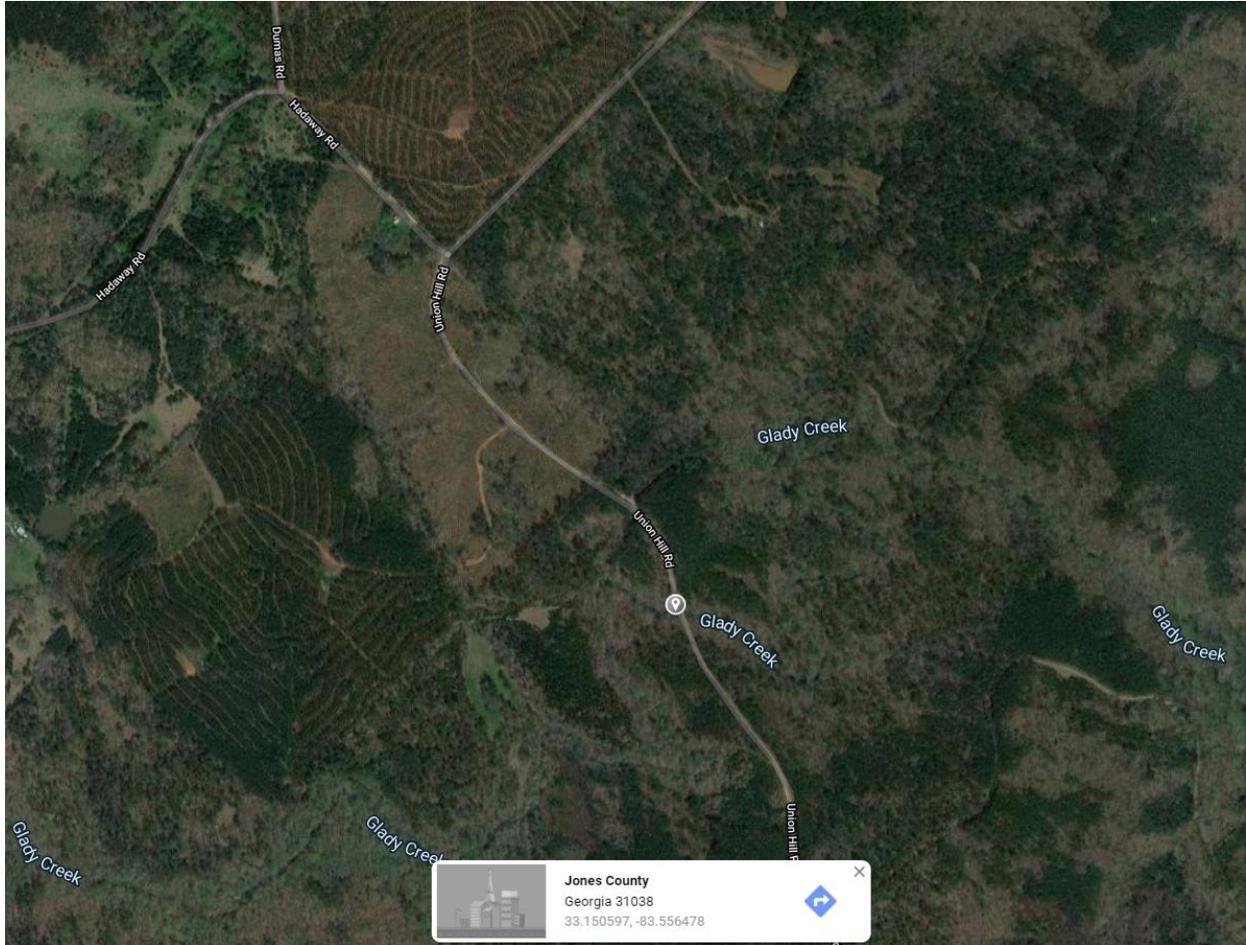
The signer of the Jones County Contract certifies that the provisions of code sections 50-24-1, through 50-24-6 of the Official Code of Georgia Annotated relating to the ** Drug Free Workplace Act ** have been complied with in full. The signer further certifies that:

- (1) A drug-free workplace will be provided for the contractor's employees during the performance of the contract: and
- (2) Each contractor who hires a subcontractor to work in a drug-free workplace shall secure from that subcontractor the following written certification:

Subcontractor certifies to the contractor that a drug-free workplace will be provided for the subcontractor's employees during the performance of this contract pursuant to paragraph (7) of subsection (b) of code section, 50-24-3. Also the signer further certifies that he will not engage in the unlawful manufacture, sale, distribution, dispensation, possession or use of a controlled substance or marijuana during the performance of the contract.

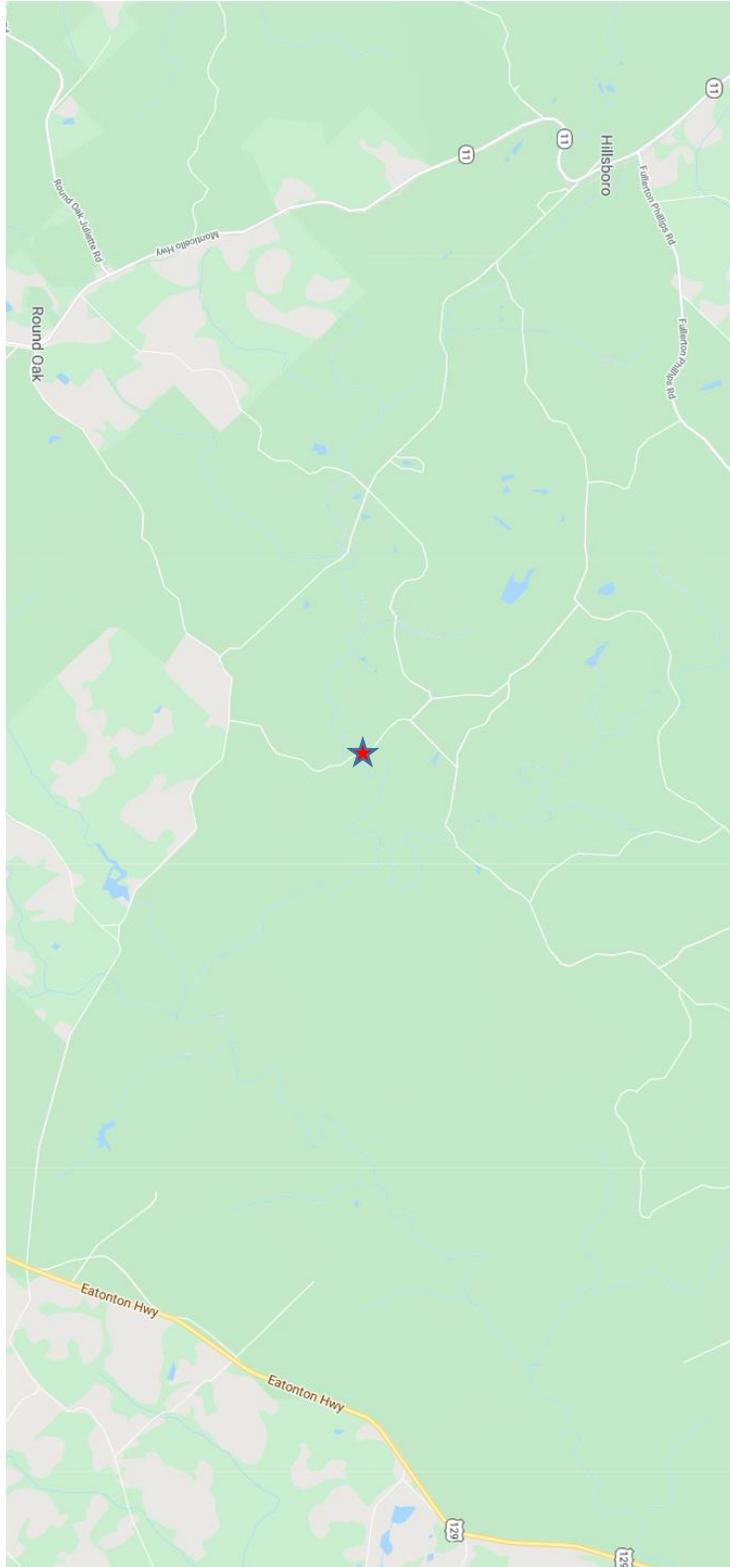


Location Map #1





Location Map #2 (Rotate Page Counterclockwise)





Bid Form

I understand that I will need to provide a certificate of insurance as outlined in the attached insurance requirements prior to beginning work.

I further understand that I will be required to submit the attached Prime and Subcontractor's Work Authorization Certification and affidavit verifying status for County Public Benefit Application (copy attached), prior to beginning work.

I certify that the bid below includes all work described in the attached plans and meets all specifications outlined in the bid documents.

Total Bid including labor & materials for the renovations to the identified bridge on Union Hill Church Road:

TOTAL BID AMOUNT: _____

Company: _____

Address: _____

Phone: _____ **Fax:** _____

Authorized Signature: _____



Receipt of Addenda

Number

Signature



References

Government/Company:

Contact Person:

Title:

Phone Number:

Project Description:

Date of Project:

Government/Company:

Contact Person:

Title:

Phone Number:

Project Description:

Date of Project:

Government/Company:

Contact Person:

Title:

Phone Number:

Project Description:

Date of Project:



Contractor Insurance Requirements

Contractor's Insurance Provisions: During the life of the contract and for such additional time as may be required, the contractor will provide, pay for, and maintain in full force and effect the insurance outlined here for coverages at not less than the prescribed minimum limits of liability, covering the contractor's activities, those of any and all subcontractors, or anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable.

Certificate of Insurance: Before starting work, the contractor will give the owner a certificate of insurance completed by a duly authorized representative of their insurer certifying that at least the minimum coverages required here are in effect and specifying that the liability coverages are written on an occurrence form and that the coverages will not be canceled, nonrenewed, or materially changed by endorsement or through issuance of other policy(ies) of insurance without 60 days advance written notice to:

Jones County Board of Commissioners
P. O. Box 1359
Gray, Ga. 31032

Failure of the owner to demand such certificate or other evidence of full compliance with these insurance requirements or failure of the owner to identify a deficiency from evidence provided will not be construed as a waiver of the contractor's obligation to maintain such insurance.

The acceptance of delivery by the owner of any certificate of insurance evidencing the required coverages and limits does not constitute approval or agreement by the owner that the insurance requirements have been met or that the insurance policies shown in the certificates of insurance are in compliance with the requirements.

If the contractor fails to maintain the insurance as set forth here, the owner will have the right, but not the obligation, to purchase said insurance at the contractor's expense. Alternately, the contractor's failure to maintain the required insurance may result in termination of this contract at owner's option.

Insurance Primary: All coverage required of the contractor will be primary over any insurance or self-insurance program carried by the owner.

No Reduction or Limit of Obligation: By requiring insurance, the owner does not represent that coverage and limits will necessarily be adequate to protect the contractor. Insurance affected or procured by the contractor will not reduce or limit the contractor's contractual obligation to indemnify and defend the owner for claims or suits which result from or are connected with the performance of this contract.

Duration of Coverage: All required coverage will be maintained without interruption during the entire term of this contract and following final acceptance of the property by the owner.



Subcontractor's Insurance: The contractor will cause each sub-contractor employed by contractor to purchase and maintain insurance of the types specified below. When requested by the owner, the contractor will furnish copies of certificates of insurance evidencing coverage for each subcontractor.

Insurance Limits and Coverage: To the extent applicable, the amounts and types of insurance will conform to the minimum terms, conditions, and coverages of Insurance Service Office (ISO) policies, forms, and endorsements.

If the contractor has any self-insured retentions, or deductible under any of the following minimum required coverages, the contractor must identify on the certificate of insurance the nature and amount of such self-insured retentions or deductible and provide satisfactory evidence of financial responsibility for such obligations. All self-insured retentions or deductible will be the contractor's sole responsibility.

Commercial General Liability: The contractor will maintain commercial general liability insurance covering all operations by or on behalf of the contractor on an occurrence basis against claims for personal injury (including bodily injury and death) and property damage (including loss of use). Such insurance will have these minimum limits and coverage:

Minimum limits: \$1,000,000 each occurrence
 \$2,000,000 general aggregate with dedicated limits per project site
 \$2,000,000 products and completed operations aggregate

Worker's Compensation: The contractor will maintain workers' compensation and employer's liability insurance.

Minimum limits: Workers' compensation – statutory limit
 Employer's liability:
 \$1,000,000 bodily injury for each accident
 \$1,000,000 bodily injury by disease for each employee
 \$1,000,000 bodily injury disease aggregate



Contractor Affidavit under O.C.G.A. § 13-10-91(b)(1)

By executing this affidavit, the undersigned contractor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services on behalf of (Jones County) has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91. Furthermore, the undersigned contractor will continue to use the federal work authorization program throughout the contract period and the undersigned contractor will contract for the physical performance of services in satisfaction of such contract only with subcontractors who present an affidavit to the contractor with the information required by O.C.G.A. § 13-10-91(b). Contractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

Federal Work Authorization User Identification Number

Date of Authorization

Name of Contractor

Name of Project

Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on _____, ____, 20__ in _____(city), _____(state).

Signature of Authorized Officer or Agent

Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME
ON THIS THE _____ DAY OF _____, 20__.

NOTARY PUBLIC

My Commission Expires:



Subcontractor Affidavit under O.C.G.A. § 13-10-91(b)(3)

By executing this affidavit, the undersigned subcontractor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services under a contract with (name of contractor) on behalf of Jones County has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91. Furthermore, the undersigned subcontractor will continue to use the federal work authorization program throughout the contract period and the undersigned subcontractor will contract for the physical performance of services in satisfaction of such contract only with sub-subcontractors who present an affidavit to the subcontractor with the information required by O.C.G.A. § 13-10-91(b). Additionally, the undersigned subcontractor will forward notice of the receipt of an affidavit from a sub-subcontractor to the contractor within five business days of receipt. If the undersigned subcontractor receives notice that a sub-subcontractor has received an affidavit from any other contracted sub-subcontractor, the undersigned subcontractor must forward, within five business days of receipt, a copy of the notice to the contractor. Subcontractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

(THIS SHOULD BE 5 TO 6 NUMBERS)

_____ Federal Work Authorization User Identification Number

_____ Date of Authorization

_____ Name of Subcontractor

_____ Name of Project

_____ Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on _____, ____, 20__ in _____(city), _____(state).

_____ Signature of Authorized Officer or Agent

_____ Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME
ON THIS THE _____ DAY OF _____, 20__.

_____ NOTARY PUBLIC

_____ My Commission Expires:



Affidavit Verifying Status County Public Benefit Application Jones County Board of Commissioners

By executing this affidavit under oath, as an applicant for a Jones County Georgia Business Occupation Tax Certificate, Alcohol License, Taxi Permit or other public benefit as referenced in O.C.G.A. Section 50-36-1, I am stating the following with respect to my application for a Jones County Business Occupation Tax Certificate, Alcohol License, Taxi Permit or other public benefit for _____. [Name of natural person applying on behalf of individual, business, corporation, partnership, or other private entity]

1) _____ I am a United States citizen

OR

2) _____ I am a legal permanent resident 18 years of age or older or I am an otherwise qualified alien or non-immigrant under the Federal Immigration and Nationality Act 18 years of age or older and lawfully present in the United States.*

In making the above representation under oath, I understand that any person who knowingly and willfully makes a false, fictitious, or fraudulent statement or representation in an affidavit shall be guilty of a violation of Code Section 16-10-20 of the Official Code of Georgia.

Signature of Applicant:

Date

Printed Name:

SUBSCRIBED AND SWORN

BEFORE ME ON THIS THE

____ DAY OF _____, 20__

*

_____ Alien Registration number for non-citizens

Notary Public _____

My Commission Expires: _____

***Note:** O.C.G.A. § 50-36-1(e)(2) requires that aliens under the federal Immigration and Nationality Act, Title 8 U.S.C., as amended, provide their alien registration number. Because legal permanent residents are included in the federal definition of "alien", legal permanent residents must also provide their alien registration number. Qualified aliens that do not have an alien registration number may supply another identifying number below:



OPTIONAL — FOR NON-BIDDERS ONLY

**JONES COUNTY BOARD OF COMMISSIONERS – PURCHASING DEPARTMENT
NO BID STATEMENT**

In an effort to make the procurement of goods and services for the County as competitive as possible, we are soliciting information from contractors and/or vendors who cannot bid. Your responsiveness and constructive comments will be appreciated. Completion of this form will assist us in evaluating factors which relate to the competitiveness of our bids. Please check any of the boxes below which may apply. Please explain any issues that you feel needs to be addressed.

- Specifications - Restrictive, too light", unclear, specialty item, geared toward one (1) brand or manufacturer only. *(Please explain in detail below).*
- Manufacturing - Unique item, production time for model has expired, etc.
- Bid Time - Insufficient time to properly respond to bid or proposal.
- Delivery Time - Specified delivery time cannot be met.
- Payment - Payment terms unacceptable. *(Please be specific)*
- Bonding - We are unable to meet bonding requirements.
- Insurance - We are unable to meet insurance requirements.
- Removal - Remove our firm from your bidders list for the particular commodity or service.
- Keep - Please keep our company on your bidders list for future reference.
- Project is: _____ / Too Large _____ / Too Small _____ / Site or Location is Too Distant
- Miscellaneous - Do not wish to bid, do not handle this type of item(s) or services, unable to compete, Contract clauses are unacceptable, etc. *(Please be specific)*
- Our company would only be interested in this project as a subcontractor or supplier.

VENDOR STATEMENT:

Bid Description: _____

Company Name: _____

Company Official Name: _____

Company Official Signature: _____

Telephone Number: _____

Email Address: _____

**JONES COUNTY BOARD OF COMMISSIONERS – PURCHASING DEPARTMENT
(478) 986-6405 x 161
leslie.faulk@jonescountyga.org**

GENERAL

- COORDINATE THESE DRAWINGS AND DIMENSIONS WITH EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES WITHIN THE CONSTRUCTION DOCUMENTS.
- DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE **2012 INTERNATIONAL BUILDING CODE**, WITH GEORGIA AMENDMENTS.
- DESIGN LOADS:
 - LIVE LOAD INFORMATION
 - A. H520 ASHTO LOADING
 - FLOOR DEAD LOADING INFORMATION
 - A. ϕ NORMAL WEIGHT CONCRETE INCLUDING $1\frac{1}{2}$ x 20 GA GALVANIZED COMPOSITE STEEL DECK = 65 PSF
- ALL THE SAFETY REGULATIONS, METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIAL SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING, BRACING, AND FRAMEWORK, ETC. AS REQUIRED.
- DIMENSIONS ARE NOT TO BE DERIVED BY SCALING THESE DRAWINGS. IF THERE IS ANY QUESTION ABOUT DETAILS OR DIMENSIONS, CONTACT THE ARCHITECT AND STRUCTURAL ENGINEER FOR CLARIFICATION.
- WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL ALSO APPLY FOR ALL LIKE OR SIMILAR CONDITIONS, UNLESS NOTED OTHERWISE.
- ISOMETRIC VIEWS ARE FOR ILLUSTRATIVE PURPOSES ONLY. NO INFORMATION ABOUT THE STRUCTURE OR ITS COMPONENTS SHALL BE TAKEN OR ASSUMED FROM THEM.
- CONTRACTOR SHALL TAMP THE VIRGIN SOIL AFTER EXCAVATION UNTIL NO VISIBLE SOIL RUTTING OCCURS FOR THE FULL SIZE OF THE FOOTING. IF SOIL TAMPING DOES NOT COMPACT SOIL TO THIS CRITERIA, THE ENGINEER SHALL BE NOTIFIED TO DETERMINE SOIL REMEDIATION REQUIREMENTS.

STEEL DECK

- MATERIAL, DESIGN, FABRICATION, AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE STEEL DECK INSTITUTE. (SDI)
- STEEL DECK SHALL BE CUT TO LENGTHS TO PROVIDE A MINIMUM OF THREE SPAN CONDITION. STEEL DECK SUBMITTAL DRAWINGS SHALL CLEARLY INDICATE BY CLOUDING ONE OR TWO SPAN CONDITIONS.
- STEEL DECK SHALL BE FASTENED THROUGH THE DECK ONTO THE SUPPORTING MEMBERS AND AT SIDELAPS PER THE DRAWINGS. USE WELDING WASHERS AS REQUIRED TO PREVENT BURN-THROUGH OF STEEL DECK.
- ALL STEEL ROOF DECK NOT EXPOSED TO WEATHER SHALL BE PRIME PAINTED. ALL STEEL DECK TO RECEIVE CONCRETE TOPPING SHALL BE **G60 GALVANIZED** IN CONFORMANCE WITH ASTM A653. ALL DECK EXPOSED TO WEATHER SHALL BE **G90 GALVANIZED** IN CONFORMANCE WITH ASTM A653.
- STEEL DECK MANUFACTURER SHALL PROVIDE ALL REQUIRED ACCESSORIES.
- FASTEN ROOF DECK TO STEEL SUPPORTING MEMBERS AT EDGE AND INTERIOR RIBS WITH A SUFFICIENT NUMBER OF **5/8" DIAMETER PUDDLE WELDS FOR A 36/4 PATTERN**. AT EDGES PROVIDE **5/8" DIAMETER PUDDLE WELD** IN EVERY FLUTE. USE **1 #10 TEK** SCREWS PER SIDELAP IN THE FIELD AND AT PLACES WHERE DECK IS CANTILEVERED.

CONCRETE

- ALL CONCRETE WORK TO BE DONE IN ACCORDANCE WITH THE CODE REFERENCED EDITION OF ACI-318: "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACI-301 "SPECIFICATION FOR STRUCTURAL CONCRETE".
- PROVIDE A 3/4" CHAMFER ON ALL EXPOSED CONCRETE EDGES FOR WALLS AND BEAMS.
- CONCRETE MIX DESIGN REQUIREMENTS AND COMPRESSIVE STRENGTH AT 28 DAYS.

DESCRIPTION	28 DAY STRENGTH (PSI)	WEIGHT PER CUBIC FOOT (PCF)	CONCRETE CLASSES FOR ACI 318 MIX REQUIREMENTS	FIBERMESH OR WWM
FOOTING AND FOUNDATION WALLS	4000	145	F0, S0, P0, C0	NONE
SLAB ON DECK	4000	145	F0, S0, P0, C0	FIBERMESH @ 1.5LB PER CUBIC YARD OF CONC.
EXTERIOR SLAB ON GRADE	4500	145	F1, S0, P0, C0	WWM 6X6 W1.4 X W1.4

FLY ASH SHALL NOT BE USED. WATER REDUCING ADMIXTURES MAY BE USED TO ACHIEVE SLUMP REQUIREMENTS.

- LOCATION OF ALL CONSTRUCTION JOINS, EXCLUDING SLABS ON GRADE, SHALL BE COORDINATED WITH STRUCTURAL ENGINEER.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER SHOWING PROPOSED LOCATIONS OF ANY MATERIAL SUCH AS BUT NOT LIMITED TO CONDUITS, EMBEDMENTS, OR FIXTURES TO BE PLACED INSIDE ANY STRUCTURAL CONCRETE MEMBER SUCH AS BEAMS, WALLS, SLABS, COLUMNS OR FOOTINGS. THIS IS NOT REQUIRED FOR SLABS ON GRADE OF 4" OR LESS IN THICKNESS.
- UNLESS SPECIFIED OTHERWISE IN THE SPECIFICATION, TESTING OF CONCRETE SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF ACI 318 SECTION 5.6 "EVALUATION AND ACCEPTANCE OF CONCRETE".
- THE FOLLOWING PROCEDURES SHALL MEET THE REQUIREMENTS OF THE REFERENCED CODE SECTIONS:

PROCEDURE	REFERENCE SECTION
PREPARATION	ACI 304 - "GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE"
CONVEYING	ACI 318 SECTION 5.9 - "CONVEYING"
DEPOSITING	ACI 318 SECTION 5.10 - "DEPOSITING"
CONSOLIDATION	ACI 309 - "GUIDE FOR CONSOLIDATION OF CONCRETE"
CURING	ACI 308 - "STANDARD PRACTICE FOR CURING CONCRETE"
HOT WEATHER CONCRETING	ACI 305 - "HOT WEATHER CONCRETING"
COLD WEATHER CONCRETING	ACI 308 "COLD WEATHER CONCRETING"

- SLAB ON GRADE AND TURNDOWN REINFORCING SHALL BE PROPERLY SUPPORTED AT 48" O.C. MAX BY CHAIRS OR CONCRETE BRICKS WITH EQUAL COMPRESSIVE STRENGTH AS SLAB.

REINFORCING STEEL

- REINFORCING STEEL SHALL BE NEW BILLET STEEL, DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60, AND SHALL BE FREE FROM ANY FORM RELEASE AGENTS.
- REINFORCING BENDS SHALL CONFORM TO CRSI.
- WELDED WIRE FABRIC SHALL BE SHEETS OF NEW BILLET STEEL COLD DRAWN, CONFORMING TO ASTM SPECIFICATION A185, GRADE 60.
- REINFORCING IS TO BE SUPPORTED AND SPACED WITH WIRE BAR SUPPORTS ACCORDING TO CRSI "PLACING REINFORCING BARS" UNLESS NOTED OTHERWISE.
- BAR SUPPORTS, DESIGN, DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 318 AND "THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315.
- SPLICES FOR CONTINUOUS BARS SHALL BE CLASS B, UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL BE LAPPED 12" MINIMUM.
- PROVIDE BENT HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF ALL WALLS AND FOOTINGS. BENT BARS ARE TO MATCH THE SIZE AND SPACING OF HORIZONTAL BARS IN WALL OR FOOTING. USE CLASS B SPLICE EACH SIDE.
- PROVIDE DIAGONAL BARS AT CORNERS OF OPENINGS IN SLABS AND CONCRETE WALLS. *SEE DETAILS "RECTANGULAR OPENING WALL SLAB" AND "CIRCLE OPENING WALL SLAB"*. PROVIDE 2" CLEAR COVER BETWEEN THE OPENING AND THE CORNER REINFORCING BARS.
- WALL FOOTING REINFORCEMENT SHALL BE CONTINUOUS THROUGH COLUMN FOOTING.
- EXTEND ALL FOOTING REINFORCEMENT TO FAR SIDE OF FOOTING. *SEE NOTE BELOW FOR CONCRETE COVERAGE.*
- PROVIDE DOWELS IN WALL FOOTING TO MATCH WALL VERTICALS UNLESS NOTED OTHERWISE ON DRAWINGS. PROVIDE CLASS B SPLICE. USE STANDARD ACI 90 DEGREE HOOK WITH 3" CLEAR TO BOTTOM OF FOOTING UNLESS NOTED OTHERWISE. *SEE DETAIL "CORNER BAR & SPLICE LENGTH DETAIL (IN CONCRETE)"*

CLASS B SPLICE OR CORNER BAR PER ACI 318						
BAR #	3000 PSI CONCRETE		4000 PSI CONCRETE		5000 PSI CONCRETE	
	MIN. SPLICE (INCHES)	MIN. SPLICE (BAR DIAM.)	MIN. SPLICE (INCHES)	MIN. SPLICE (BAR DIAM.)	MIN. SPLICE (INCHES)	MIN. SPLICE (BAR DIAM.)
4	29		25		24	
5	36	57	31	50	28	45
6	43		37		34	
7	63		54		49	
8	72		62		56	
9	81	72	70	62	63	56
10	89		78		69	
11	98		86		76	

- MINIMUM CONCRETE COVERAGE SHALL BE AS FOLLOWS. IF CONSTRUCTION DOCUMENTS INDICATE A LARGER COVERAGE, IT SHALL BE USED. IF STIKRUPS, TIES, OR SPIRALS ARE USED, COVERAGE SHALL BE TO THE OUTERMOST FACE OF THESE ELEMENTS.
 - A. FOOTINGS, CAISSONS, AND OTHER MEMBERS WHERE CONCRETE IS DEPOSITED AGAINST SOIL (EXCEPT SLABS ON GRADE) = 3"
 - B. CONCRETE EXPOSED TO WEATHER OR SOIL BUT IS NOT DEPOSITED AGAINST SOIL:
 - #6 BAR AND LARGER = 2"
 - #5 BAR AND SMALLER = 1 1/2"
 - C. CONCRETE NOT EXPOSED TO WEATHER OR SOIL:
 - SLABS, WALLS, JOISTS #4 BAR AND LARGER = 1 1/2"
 - SLABS, WALLS, JOISTS #3 BAR AND SMALLER = 3/4"
 - BEAMS AND COLUMNS = 1 1/2"

STRUCTURAL STEEL

- DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE CODE-REFERENCED AISC MANUAL OF STEEL CONSTRUCTION, SPECIFICATION FOR STEEL BUILDINGS, AND CODE OF STANDARD PRACTICE.
- STEEL FABRICATOR SHALL BE CURRENTLY CERTIFIED BY THE AISC QUALITY CERTIFICATION PROGRAM FOR STRUCTURAL STEEL FABRICATIONS AND DESIGNATED AS "AISC CERTIFIED BUILDING FABRICATOR CATEGORY BU." CONTRACTOR SHALL SUBMIT IN WRITING TO THE STRUCTURAL ENGINEER, AT THE TIME OF PROOF OF CERTIFICATION FOR THE STEEL FABRICATOR(S) SUPPLYING STRUCTURAL STEEL.

MATERIALS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:

- A. W-SHAPES = ASTM 992
- B. HOLLOW STRUCTURAL SHAPES = ASTM A500, GRADE B
- C. PLATES, BARS, ANGLES, C-SHAPES, MC-SHAPES = ASTM A36
- D. PIPES = ASTM A53, GRADE B
- E. WELDING ELECTRODES = E70XX

- ALL ANCHOR BOLTS SHALL BE SIZE AND STRENGTH SPECIFIED ON THESE DRAWINGS.

- ALL BEAM END CONNECTIONS SHALL BE AISC DOUBLE ANGLE BOLTED-WELDED CONNECTIONS WITH 3/4" DIA. A325N BOLTS U.N.O. THE WELD SHALL BE 1/4" WELD FULL LENGTH OF ANGLE PLUS 1" TOP AND BOTTOM. DESIGN SHEAR SHALL BE THE GREATER OF:
 - A. THE SHEAR REACTION SHOWN ON DRAWINGS (IF ANY);
 - B. 50% OF THE VALUE FROM THE "MAXIMUM TOTAL UNIFORM LOAD IN KIPS" TABLES OF THE AISC 13TH EDITION (BLACK BOOK) OR;
 - C. THE MINIMUM NUMBER OF BOLTS IN SINGLE SHEAR AS FOLLOWS:

BEAM SHAPE*	# OF 3/4" DIA. A325 BOLTS	LENGTH OF LL 3 1/2" X 3 1/2" X 5/16"
W8 , W10	4	5 1/2
W12 , W14	6	8 1/2
W16 , W18	8	11 1/2
W21	10	14 1/2
W24	12	17 1/2
W27	14	20 1/2
W30	16	23 1/2

WHERE CONNECTIONS ARE SKEWED OR THE DOUBLE ANGLE CONNECTIONS ABOVE WILL NOT FIT, THE FOLLOWING CONNECTIONS SHALL BE USED:

END OF BEAM CONNECTIONS*

BEAM SHAPE*	# OF 3/4" DIA. A325 BOLTS	1/2" SHEAR TAB LENGTH**
W8 , W10	2	5 1/2
W12 , W14	3	8 1/2
W16 , W18	4	11 1/2
W21	5	14 1/2
W24	6	17 1/2
W27	7	20 1/2
W30	8	23 1/2

*WHEN THE SHEAR TAB CONNECTION ABOVE DOES NOT FIT IN THE BEAM WEB, USE THE ADJACENT SMALLER CONNECTION AND CLOUD ON SHOP DRAWINGS.

**WELD PLATE TO SUPPORTING MEMBER WITH 5/16" WELD ALL AROUND. SHEAR TAB TO BE 1/2" THICK X 4" WIDE.

- ALL BOLTED CONNECTION SHALL BE FULLY PRETENSIONED ACCORDING TO THE REQUIREMENTS OF "ASIS MANUAL OF STEEL CONSTRUCTION" UTILIZING DIRECT TENSION INDICATORS OR AN APPROVED INSTALLATION METHOD IN WRITING FROM THE ENGINEER OF RECORD.
- WELDS SHALL BE MADE ONLY BY OPERATORS CERTIFIED BY THE STANDARD QUALIFICATION PROCEDURE OF THE AMERICAN WELDING SOCIETY FOR THE TYPE OF WELD REQUIRED. WELDER CERTIFICATION SHALL BE SUBMITTED FOR REVIEW.
- WELD LENGTHS NOT NOTED SHALL BE FULL LENGTH. TERMINATE WELDS IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION AND AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE - STEEL (D1.1).
- HOLES LARGER THAN 1" DIA. SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER. HOLES SHALL BE PUNCHED OR DRILLED, EXCEPT AS OTHERWISE PERMITTED THE STRUCTURAL ENGINEER.
- PROTECT COLUMNS, BASE PLACES, ANCHOR BOLTS, AND ANY STEEL BELOW GRADE WITH AN APPROVED INORGANIC OR EPOXY ANTI-CORROSION COATING, FIELD APPLIED PER MANUFACTURER'S INSTRUCTIONS.
- ALL EXPOSED STRUCTURAL STEEL INCLUDING LINTELS, AND AS NOTED ON DRAWINGS, SHALL BE GALVANIZED IN CONFORMANCE WITH ASTM A123. FASTENERS AND SMALL PARTS REQUIRING GALVANIZING SHALL BE IN CONFORMANCE WITH ASTM A153.
- THE CONTRACTORS SHALL DETERMINE, FURNISH AND INSTALL ALL TEMPORARY SUPPORTS SUFFICIENT TO SECURE THE STRUCTURAL STEEL FRAMING AGAINST LOADS PRESENT DURING ERECTION. TEMPORARY SUPPORTS SHALL REMAIN IN PLACE UNTIL ALL CONNECTIONS TO THE LATERAL LOAD RESISTING SYSTEM, INCLUDING HORIZONTAL DIAPHRAGMS, ARE COMPLETE.
- SPLICE CONTINUOUS STEEL ANGLES AND PLATES WITH PARTIAL-JOINT-PENETRATION SQUARE GROOVE WELDS (JOINT DESIGNATION B-PTA) U.N.O.



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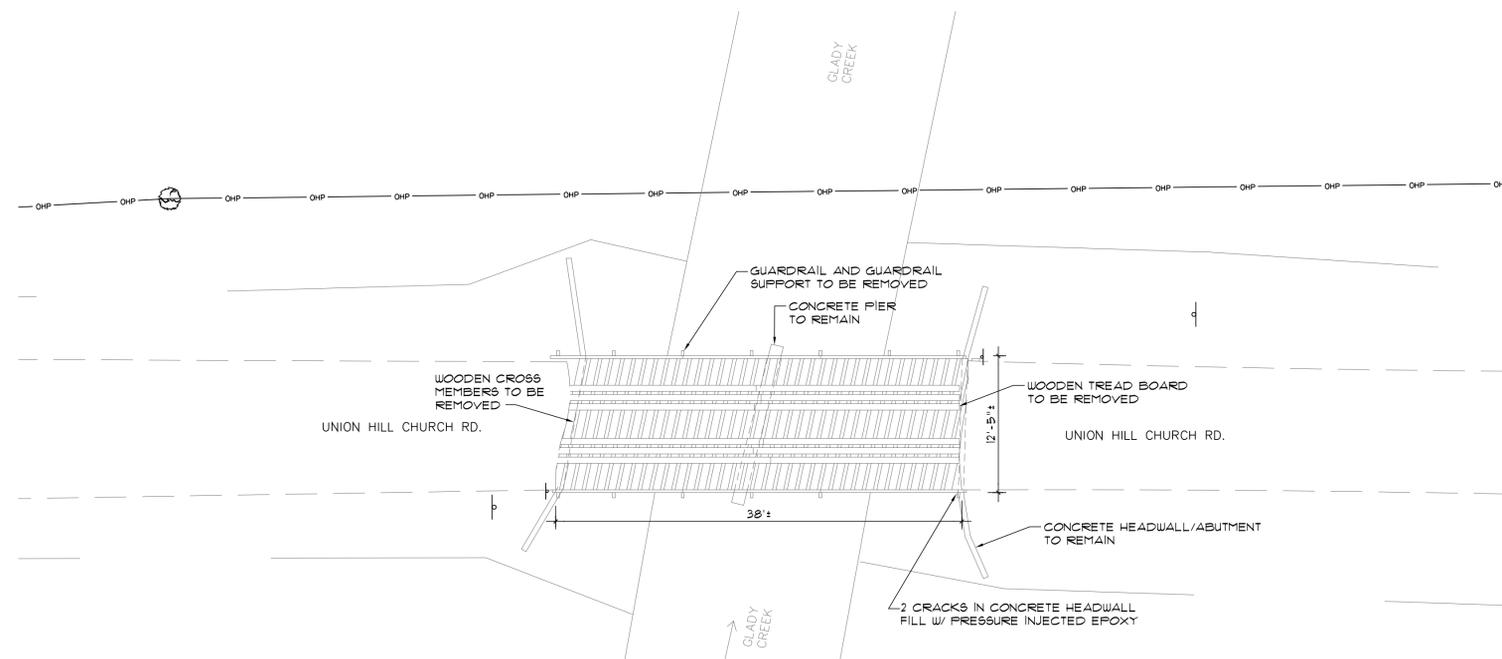
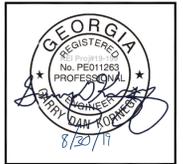
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UNION HILL CHURCH ROAD
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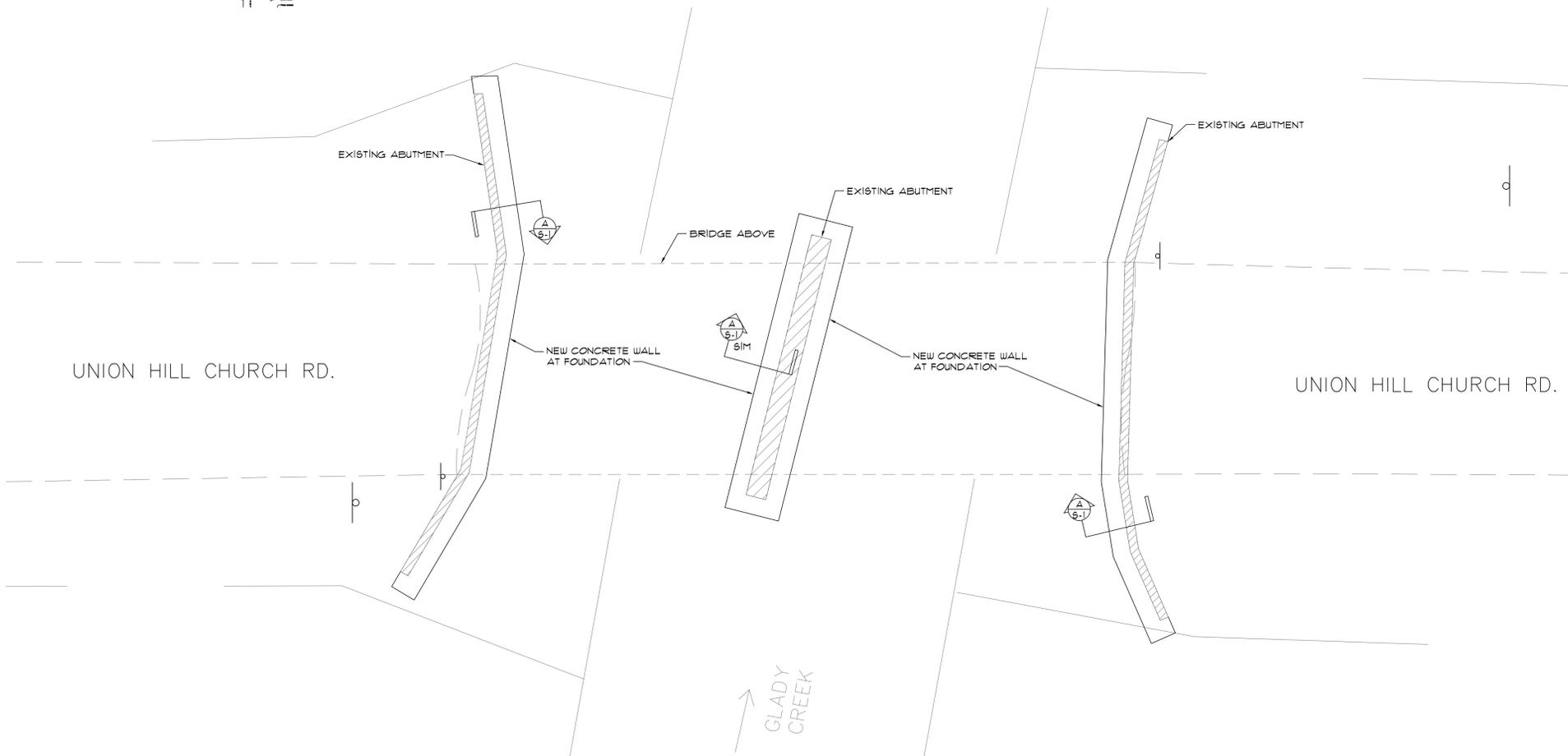
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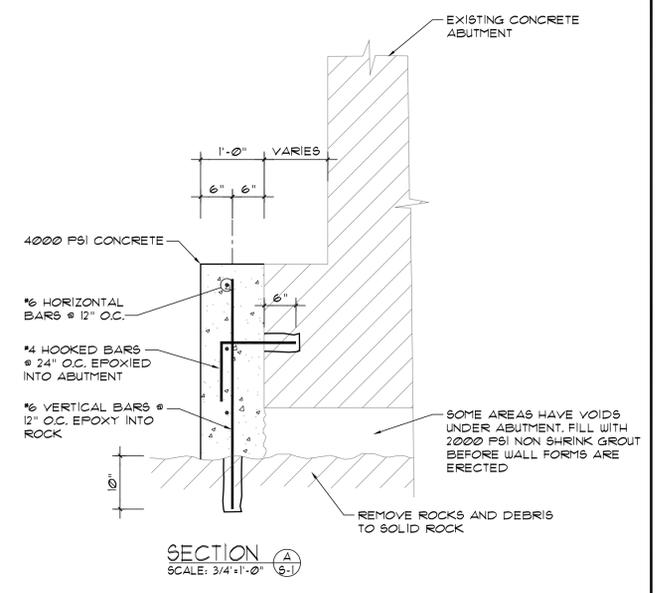


NOTE: CONTACT KEI FOR INSPECTION AFTER GUARDRAILS AND WOODEN MEMBERS HAVE BEEN REMOVED. PROVIDE 48 HOUR NOTICE FOR INSPECTION.

EXISTING CONDITIONS & DEMOLITION NOTES
 SCALE: 1/8"=1'-0"



PROPOSED CONSTRUCTION PLAN AT FOUNDATION LEVEL
 SCALE: 1/4"=1'-0"



SECTION A-5/1
 SCALE: 3/4"=1'-0"

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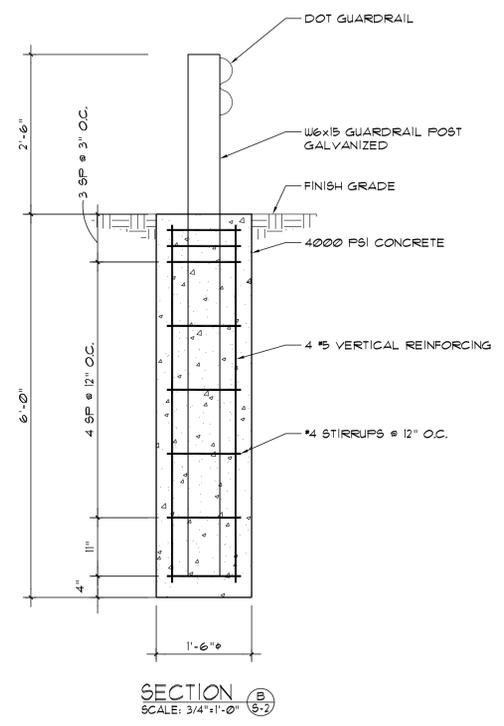
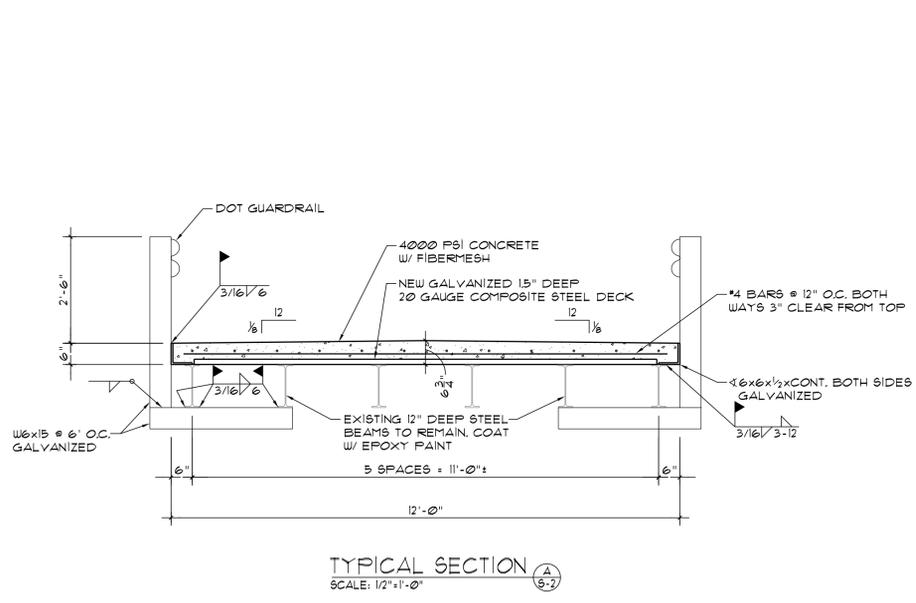
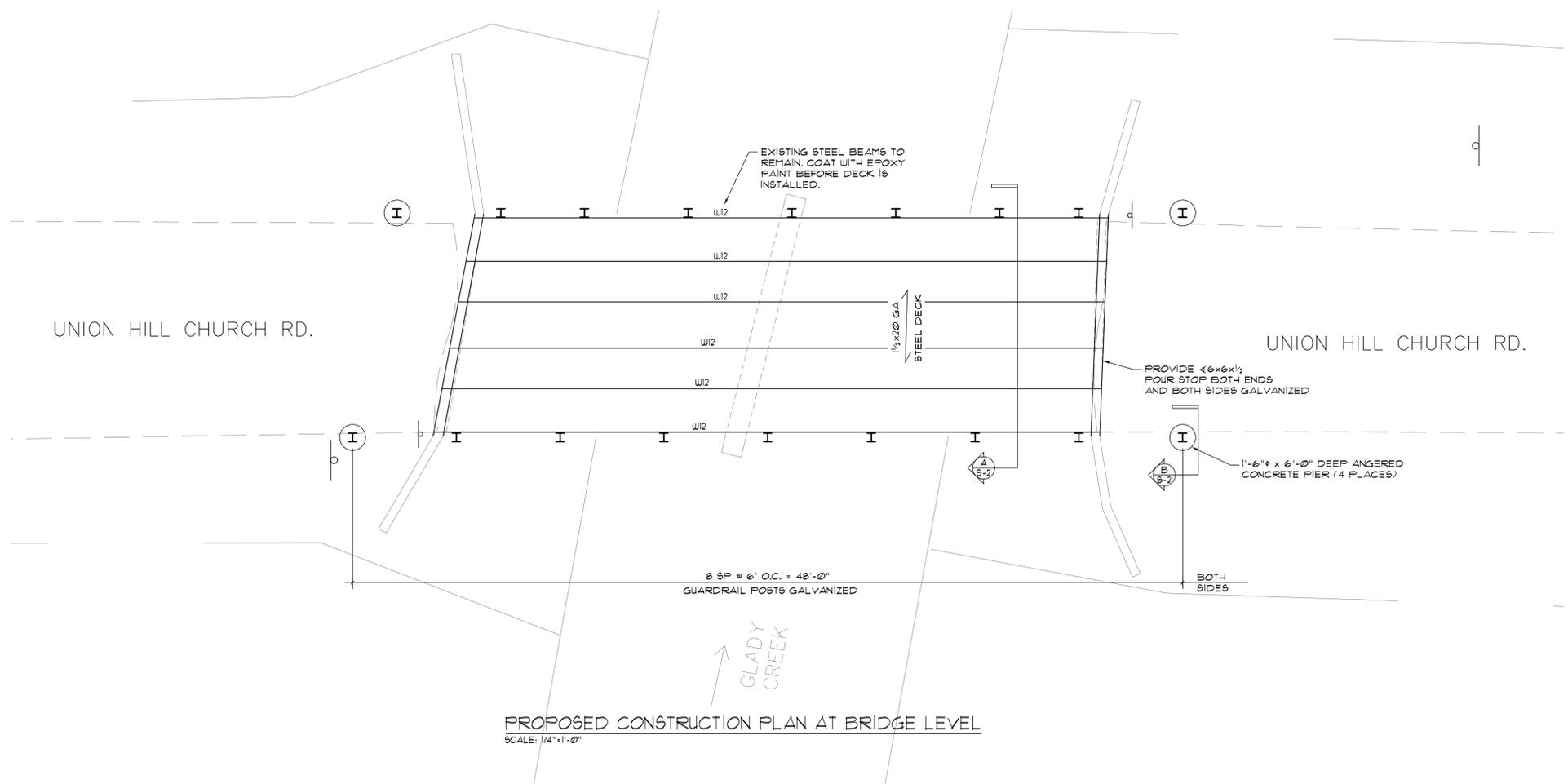
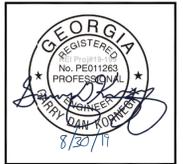
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