

Bid Addendum

Addendum No. 1 for the City of Staunton Johnson, Byers, and New Street Tunnel Repairs.

Addendum Date: October 28, 2025

To: All Bidders

From: Wiley|Wilson
Lynchburg, VA

This Addendum contains 17 page(s) and listed attachments and forms a part of the bidding documents and modifies the Project Manual dated October 6, 2025 and Drawings dated October 6, 2025, as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject bidder to disqualification.

CLARIFICATIONS

1. The deadline for questions is extended to October 30, 2025 by 12:00 pm.
 2. The design drawings for the Johnson St concrete entrance communication conduits and construction photos are included for information only. Contractor to field verify existing conditions.
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RESPONSE TO PRE-BID MEETING QUESTIONS

Question 1: Will the City charge for on-site water use?

Response: The City will not charge the contractor for authorized water use in conjunction with the project, although it will need to be metered. There are limited water access points at the Wharf. A yard hydrant is located near the southwest area of the Wharf, believed to be served via a $\frac{3}{4}$ " connection. If a fire hydrant is needed for water use, the City would need to provide a backflow prevention device and meter and approve which hydrant(s) to be used; the nearest fire hydrant is located across the street, so access could be problematic. Alternatively, the contractor could establish a bulk water account to haul water from the water treatment plant at 1907 Craigmont Rd (the City would not charge for water used for the project).

Question 2: What is the duration of the stream bypass?

Response: The stream bypass is only necessary for the gas line relocation at Johnson St. All other work is anticipated to be performed behind cofferdams.

Question 3: Is Peyton Creek a Jurisdictional stream, and is full bypass allowed?

Response: Yes, the stream bypass is included in the Nationwide permit. See Appendix B of the Project Manual.

Question 4: What bedding and backfill requirements does Columbia Gas have, especially given the depth of the trenching below the water table?

Response: This information has been requested from Columbia and will be distributed in a future addendum.

Question 5: What is the division of labor for the medium pressure gas line relocation?

Response: Columbia will provide the pipe and labor to weld it together. The contractor will excavate the trench and backfill. Columbia will place the pipe. Columbia is also responsible for the tie-ins to the existing line. Columbia is fully responsible for relocating the low-pressure gas line.

Question 6: On C-110, can work on the Phase 2 side be performed prior to or parallel with the Phase 1 work?

Response: Yes, work can be performed "out of sequence". The key point for the phasing is to illustrate that the full tunnel cannot be demolished until the gas line is relocated under the stream and the existing lines crossing through the tunnel are abandoned.

Question 7: Will bypass pumping need to be manned overnight?

Response: Bypass pumping of the sanitary sewer will generally be required 24/7 until the line is reinstated (complete and tested). It could be monitored manually or via floats with an autodialer. The contractor is required to submit bypass plans for all the sanitary sewer bypass setups and for the stream bypass for Engineer review per the plans and specifications.

Question 8: Have the bypass pump locations near the police station been approved impacts by the City?

Response: Yes, the City is aware of this planned impact to the police parking there and will accommodate. Central Avenue is to remain open. ADA pedestrian access to the lower sidewalk (street-level sidewalk adjacent to the daylighted stream area upstream of the parking garage) must be maintained when City Hall is closed (normal operating hours M-F, 8am to 5pm). As part of the bypass plan, include street and sidewalk area that would be occupied or blocked by the bypass pumps and piping. An alternative location for the bypass pumping can be considered.

Question 9: Is all work at the New St site unit price?

Response: No, only the concrete repair work identified on Sheet C-503 is unit price. All other work (surface restoration, water replacement, fencing, etc) at New St is included in the lump sum price.

Question 10: Who pays for the relocation of the overhead power lines at Johnson St?

Response: Dominion Energy will relocate the overhead electric lines prior to work beginning at Johnson Street at Dominion Energy's expense. See sheet C-117 for approximate location of temporary lines and allowable work area.

RESPONSE TO PRE-BID RFIs

Question 11: Will the owner please share the contact information for the basis of design vendor for the precast tunnel?

Response: The basis of design is a 3 sided rigid frame precast bridge from Permatile Concrete Products Company.

Question 12: Sheet C-002 Bypass note #2: 1,000 CFS seems too big. Are the units supposed to read, "CFM"? Potentially "100 CFS"?

Response: The units noted on Sheet C-002, Bypass Note #2, are incorrect. The bypass flow rate should be 1,000 GPM, which is approximately 2.2 CFS. Sheet C-002 has been reissued with the correct units in this Addendum.

Question 13: For the Byers St. sanitary sewer bypass, is the intent to discharge into the MH approximately 100 LF downstream of the New St. bridge?

Response: The Byers St sanitary sewer bypass can be routed to that manhole. A closer option is

a manhole in the stream (but elevated above the normal water surface) located under the court complex about 300' from Byers St. See below photos. We could not locate the manhole shown in S Augusta St. The bypass may also be routed to the manhole at the intersection of Johnson St and Augusta St although the available capacity of that 12" line is unknown.



Question 14: What is the plan for the existing underground electric that crosses the tunnel at the Byers St. site?

Response: This is a lighting circuit for the light poles in the Wharf Parking Lot. It can be

disconnected for the duration of the Byers St work. The contractor is responsible for disconnecting the line prior to the Byers St work and reconnecting it thereafter.

Question 15: What, if any, are the materials testing responsibilities on the contractor?

Response: Refer to Specification Sections 031000 – Concrete Forming and Accessories (3.5 Field Quality Control), 032000 – Concrete Reinforcing (3.5 Field Quality Control), and 033000 – Cast-in-Place Concrete (3.12 Field Quality Control) for requirements related to the Owner’s special inspector. All other material testing responsibilities are the responsibility of the Contractor

Question 16: Does the City of Stanton have a noise ordinance and if so, can it be waived during the working hours for this project?

Response: The City’s noise ordinance can be found in City Code Section 8.25.170 “No person shall engage in the erection (including excavating), demolition, alteration or repair of any building, in a residential or business district, other than between the hours of 7:00 a.m. and 6:00 p.m., except in cases of urgent necessity in the interest of public safety and then only with a permit from the chief of police, which permit may be renewed for a period of three days or less while the emergency continues.” (Code 1964, § 16-26; Code 1985, § 17-17; Ord. 7-10-03). See also response to Question 9, below.

Question 17: Does the City of Staunton have any site to waste excess earth material, rubble concrete, rubble masonry and rubble stones?

Response: The City does not have a designated site available for this project for disposal of excess earth material, concrete, masonry, or stone. The Contractor is responsible for proper disposal of all waste materials in accordance with applicable codes and regulations.

Question 18: Will the contractor bear any of the cost for the removal or relocation of overhead electric lines required to perform the work?

Response: See response to Question 10.

Question 19: Can you confirm that the allowable working hours are 7 am to 5 pm M-F not including holidays as stated in the Supplementary Conditions?

Response: Project work hours are 7am to 6pm Monday through Friday (except no work on City holidays). Work beyond these hours due to extenuating circumstances would need to be requested on a case-by-case basis.

Question 20: Will Builders Risk Insurance be required for this project?

Response: Builders Risk Insurance is required.

DRAWINGS

(Information provided in “RESPONSE TO QUESTIONS” Section of Addendum also includes additional changes to Drawings)

Drawing C-002: Has been reissued to show units change for Note 2 from 1000 CFS to 1000 GPM.

Drawing C-117: Has been issued as a new Drawing showing approximate location of temporary electrical lines and allowable work area.

ATTACHMENTS

1. Pre-Bid Conference Minutes
2. List of Pre-Bid Conference Attendees
3. Revised Drawings
4. Johnson St concrete entrance communications conduit and construction photos

End of Addendum No. 1

Wiley|Wilson



Dan T. Sutton, PE

Pre-Bid Conference Agenda

PROJECT: Johnson, Byers, and New Street Tunnel Repairs

OWNER: City of Staunton

LOCATION: 116 West Beverly Street, Caucus Room, Staunton, VA 24401

DATE/TIME: October 16, 2025 at 2:00 p.m.

PURPOSE: Non-mandatory Pre-Bid Conference for Referenced Project

OWNER'S REP: Lyle Hartt, PE, City Engineer

A/E FIRM: Dan Sutton, PE, Wiley|Wilson, Project Manager

RECORD OF ATTENDEES: *See attached attendee list.*

Drawings, Specifications and Invitation for Bid documents are available in electronic format and are available through eVA download and on the City's website.

Agenda discussion

INVITATION FOR BID

- Sealed Bids received by **2:00 p.m. on November 13, 2025** at the address listed in IFB. Bidders may also complete electronic bid submission via the eVA system as directed in Article 13.
- At that time the bids will be publicly opened and read.

INSTRUCTIONS TO BIDDERS

- Conditions at the site. We will head to the site after the meeting. If prospective bidders wish to visit the areas of the proposed work, they should contact Lyle Hartt, harttln@ci.staunton.va.us.
- **No oral explanation** in regard to the meaning of the drawings and specifications will be made and no oral instructions will be given prior to the award of contract. Contractor's seeking clarification of the bidding documents shall refer to Article 2 of the Project Manual.
- A Bid Bond of 5% is REQUIRED as stated in the Project Manual. Refer to Article 8 – Bid Security. Successful bidder will be required to submit a Standard Performance



Bond & Standard Labor and Material Payment Bond acceptable in form and content to the City.

- Preparation and Submission of Bids: Bidders must have a valid Virginia Contractor License Number to qualify as a bidder.
- Receipt of Bids: Factors to consider so your bid is on time include:
Bid Officer must have bids in hand by date and time or they will be marked late and shall not be considered.

Pre-bid Questions

- All questions must be emailed and received by **2:00 p.m. EST on October 22, 2025**. Via email to Liz Bell, Wiley|Wilson, lbell@wileywilson.com and Dan Sutton, Wiley|Wilson, dsutton@wileywilson.com. Include "City of Staunton – Johnson-Byers-New Street – Prebid Question" in the email subject. No oral explanations regarding the meaning of the drawings or specifications will be provided prior to bidding.
- Responses will be available on eVA by 5:00 p.m. EST, October 31, 2025 to all pre-bid questions in the form of an Addendum.

Bid Form

- **The contract shall be awarded on a lump sum basis with unit pricing for repair work at New Street.**
- The Bid Form shall be **filled out completely**, signed by the responsible parties and dated.

Retainage

- In making partial payments, five percent (5%) shall be retained until final acceptance of all work covered by the contract.

REVIEW SPECIFICATION DIVISIONS

- Bidders shall carefully review all of the technical sections of the project manual.
- Access to work is limited to the work schedule of the facility which is 8:00 a.m. to 5:00 p.m. Monday through Friday. Exceptions to the schedule may be considered with a 48-hour notice to the City by the contractor. **Refer to Addendum 1 for updated allowable work hours.**
- Temporary construction facilities will be allowed within the limits of disturbance.

Potable water is available on site.



- Temporary electrical service will not be provided by the owner and shall be the responsibility of the contractor.
- Sanitary facilities shall be furnished by the Contractor.
- The project earthwork is unclassified and there is no allowance for rock excavation including trenching.

GENERAL REVIEW OF DRAWINGS AND PROJECT

- Site phasing
- Bypass pumping (stream and sanitary sewer)
- Road closures/traffic control
- Gas line relocation and coordination with Columbia Gas
- Overhead electric lines at Johnson St
- Existing conditions that are unknown until construction. **Contractor to field verify existing conditions.**
 - Depth of footings at Johnson Street Parking Garage
 - Size and depth of existing tunnel foundations unknown for older portions at Johnson street.
 - **Exact location of** Johnson Street conduits cast into reinforced concrete roof slab
- Working with existing utilities and new utilities below foundation or through precast walls.
- Integration of precast with existing or new cast in place concrete
- Vehicle guardrail system
- New street
 - concrete repairs
 - Rebar testing
 - Electrical conduit support
- Specific type of corrosion resistant rebar required

SCHEDULE

- Construction shall begin on or around January 5, 2026 and Final Completion by May 1, 2027. The work will be substantially complete within 481 days after the date when the Contract Times commence and completed and ready for final payment within 511 days after the date when the Contract Times commence to run.

QUESTION AND ANSWER PERIOD

- Responses to questions that may impact the scope of work and /or a bid price proposal will be made in an Addendum to the Bidding Documents. Responses that only involve finding information that is already in the Bidding Documents may be made verbally during this Q&A period.



- See Addendum 1 for pre-bid conference questions and responses.
- An addendum will be issued that will include these meeting minutes, any Pre-Bid questions, and a copy of the attendee sign-in sheet.

End of Pre-Bid Conference Notes

LIST OF PRE-BID CONFERENCE ATTENDEES

City of Staunton Johnson, Byers, and New Street Tunnel Repairs October 16, 2025, 2:00 pm

Company Name: Faulconer Construction General Contractor (x) Subcontractor () Supplier ()

Address: _____

Telephone Number: _____ Fax Number: _____

Attendee Name: Steven Woerner Email: _____

Company Name: Hammond-Mitchell General Contractor (x) Subcontractor () Supplier ()

Address: _____

Telephone Number: _____ Fax Number: _____

Attendee Name: John Quantz Email: _____

Company Name: Virginia Infrastructure General Contractor (x) Subcontractor () Supplier ()

Address: _____

Telephone Number: _____ Fax Number: _____

Attendee Name: Andy Hoofnagle Email: _____

Company Name: Virginia Infrastructure General Contractor (x) Subcontractor () Supplier ()

Address: _____

Telephone Number: _____ Fax Number: _____

Attendee Name: Aaron Bruce Email: _____

Company Name: IQ Contracting General Contractor (x) Subcontractor () Supplier ()

Address: _____

Telephone Number: _____ Fax Number: _____

Attendee Name: Mike Morse (Vritual) Email: _____

Company Name: Commonwealth Excavation General Contractor (x) Subcontractor () Supplier ()

Address: _____

Telephone Number: _____ Fax Number: _____

Attendee Name: Damon Dudley (Virtual) Email: _____ +

LIST OF PRE-BID CONFERENCE ATTENDEES

City of Staunton

Johnson, Byers, and New Street Tunnel Repairs

October 16, 2025, 2:00 pm

Company Name: Wiley|Wilson General Contractor () Subcontractor () Supplier ()

Address: _____

Telephone Number: _____ Fax Number: _____

Attendee Name: Dan Sutton Email: _____

Company Name: Wiley|Wilson General Contractor () Subcontractor () Supplier ()

Address: _____

Telephone Number: _____ Fax Number: _____

Attendee Name: Gus Hollberg Email: _____

Company Name: Wiley|Wilson General Contractor () Subcontractor () Supplier ()

Address: _____

Telephone Number: _____ Fax Number: _____

Attendee Name: Kyle Tennant Email: _____

Company Name: City of Staunton General Contractor () Subcontractor () Supplier ()

Address: _____

Telephone Number: _____ Fax Number: _____

Attendee Name: Lyle Hartt Email: _____

Company Name: City of Staunton General Contractor () Subcontractor () Supplier ()

Address: _____

Telephone Number: _____ Fax Number: _____

Attendee Name: Chad Horvat Email: _____

Company Name: Dominion General Contractor () Subcontractor () Supplier ()

Address: _____

Telephone Number: _____ Fax Number: _____

Attendee Name: Colton Ringgold Email: _____ +

LIST OF PRE-BID CONFERENCE ATTENDEES
City of Staunton
Johnson, Byers, and New Street Tunnel Repairs
October 16, 2025, 2:00 pm

Company Name: Dominion General Contractor () Subcontractor () Supplier ()

Address: _____

Telephone Number: _____ Fax Number: _____

Attendee Name: Ben Piltz Email: _____

Company Name: Dominion General Contractor () Subcontractor () Supplier ()

Address: _____

Telephone Number: _____ Fax Number: _____

Attendee Name: Andrew Bartley Email: _____

Company Name: Coastal Consultants (Columbia Gas) General Contractor () Subcontractor () Supplier ()

Address: _____

Telephone Number: _____ Fax Number: _____

Attendee Name: John Nerden Email: _____

Company Name: _____ General Contractor () Subcontractor () Supplier ()

Address: _____

Telephone Number: _____ Fax Number: _____

Attendee Name: _____ Email: _____

Company Name: _____ General Contractor () Subcontractor () Supplier ()

Address: _____

Telephone Number: _____ Fax Number: _____

Attendee Name: _____ Email: _____

Company Name: _____ General Contractor () Subcontractor () Supplier ()

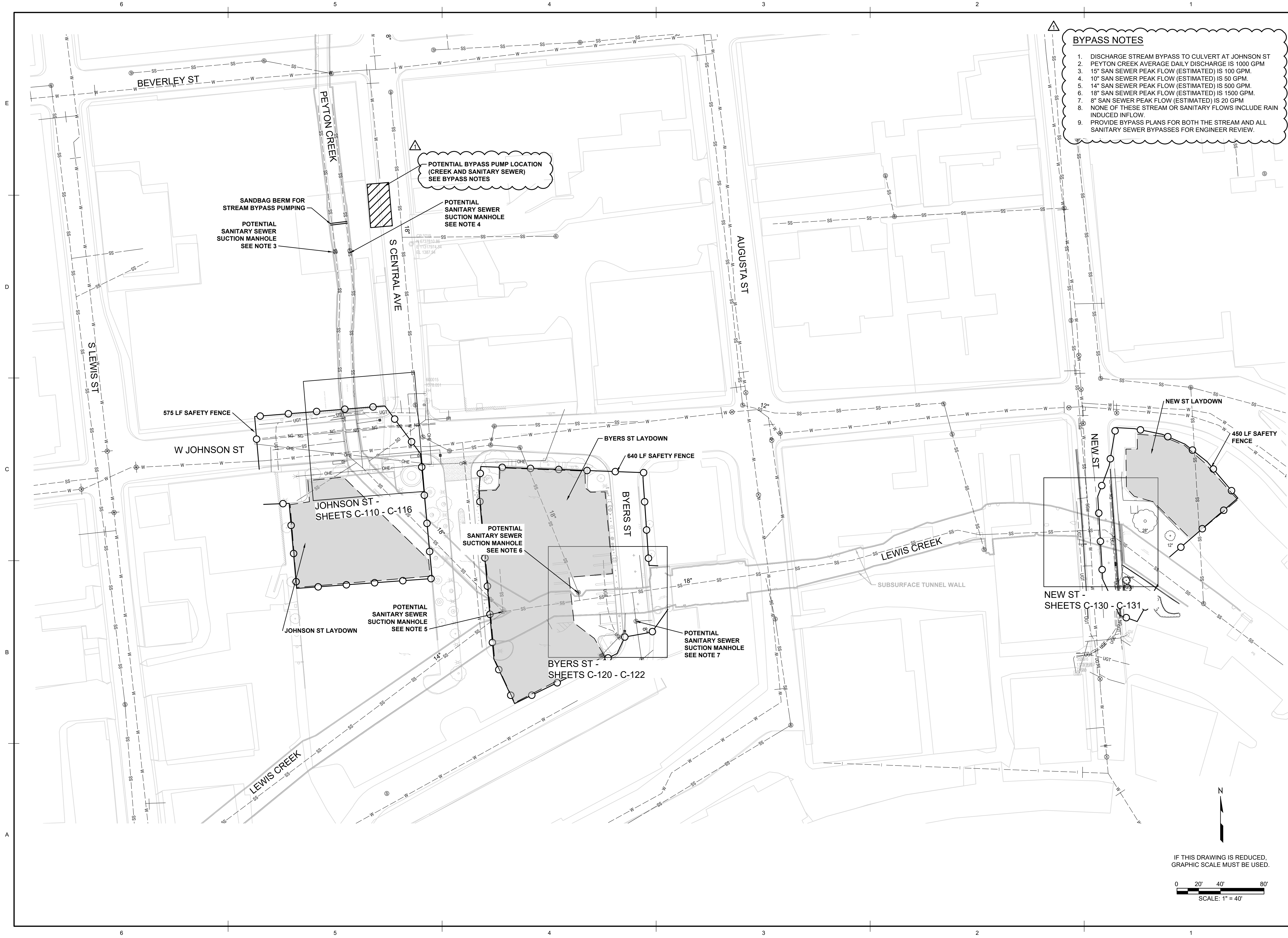
Address: _____

Telephone Number: _____ Fax Number: _____

Attendee Name: _____ Email: _____ +

12/26/2013 6:33 AM

X:\2024\240197 Staunton Tunnel Study\700 Drawings\702 Civil\Sheets\240197A23_C-100.dwg



BYPASS NOTES

1. DISCHARGE STREAM BYPASS TO CULVERT AT JOHNSON ST
2. PEYTON CREEK AVERAGE DAILY DISCHARGE IS 1000 GPM
3. 15" SAN SEWER PEAK FLOW (ESTIMATED) IS 100 GPM.
4. 10" SAN SEWER PEAK FLOW (ESTIMATED) IS 50 GPM.
5. 14" SAN SEWER PEAK FLOW (ESTIMATED) IS 500 GPM.
6. 18" SAN SEWER PEAK FLOW (ESTIMATED) IS 1500 GPM.
7. 8" SAN SEWER PEAK FLOW (ESTIMATED) IS 20 GPM
8. NONE OF THESE STREAM OR SANITARY FLOWS INCLUDE RAIN INDUCED INFLOW.
9. PROVIDE BYPASS PLANS FOR BOTH THE STREAM AND ALL SANITARY SEWER BYPASSES FOR ENGINEER REVIEW.



Wiley Wilson
Constant Progress



COMMONWEALTH OF VIRGINIA
Forrest A. Holberg
Lic. No. 068510
10/06/2025
PROFESSIONAL ENGINEER

CITY OF STAUNTON

JOHNSON, BYERS, AND NEW STREET TUNNEL REPAIRS

STAUNTON, VIRGINIA

MRK	DATE	REVISION DESCRIPTION
1	10/28/2025	ADDENDUM 1

COMM NO: 240197

DATE: 10/06/2025

DRAWN: FAH

DESIGN: FAH

CHECK: WRM

SHEET TITLE

OVERALL PLAN AND EXISTING UTILITIES MAP

SHT. NO. C-002

REV. NO. 1



SEG INC
 DESIGN BUILD
 STRUCTURAL ENGINEERING
 STRUCTURAL REPAIR

21135 WHITFIELD PLACE, SUITE 201
 STERLING, VA 20165
 P 703.574.4813
 F 703.579.0074

CITY OF STAUNTON PARKING GARAGE

WEST JOHNSON STREET
STAUNTON, VA 24401

[illegible]

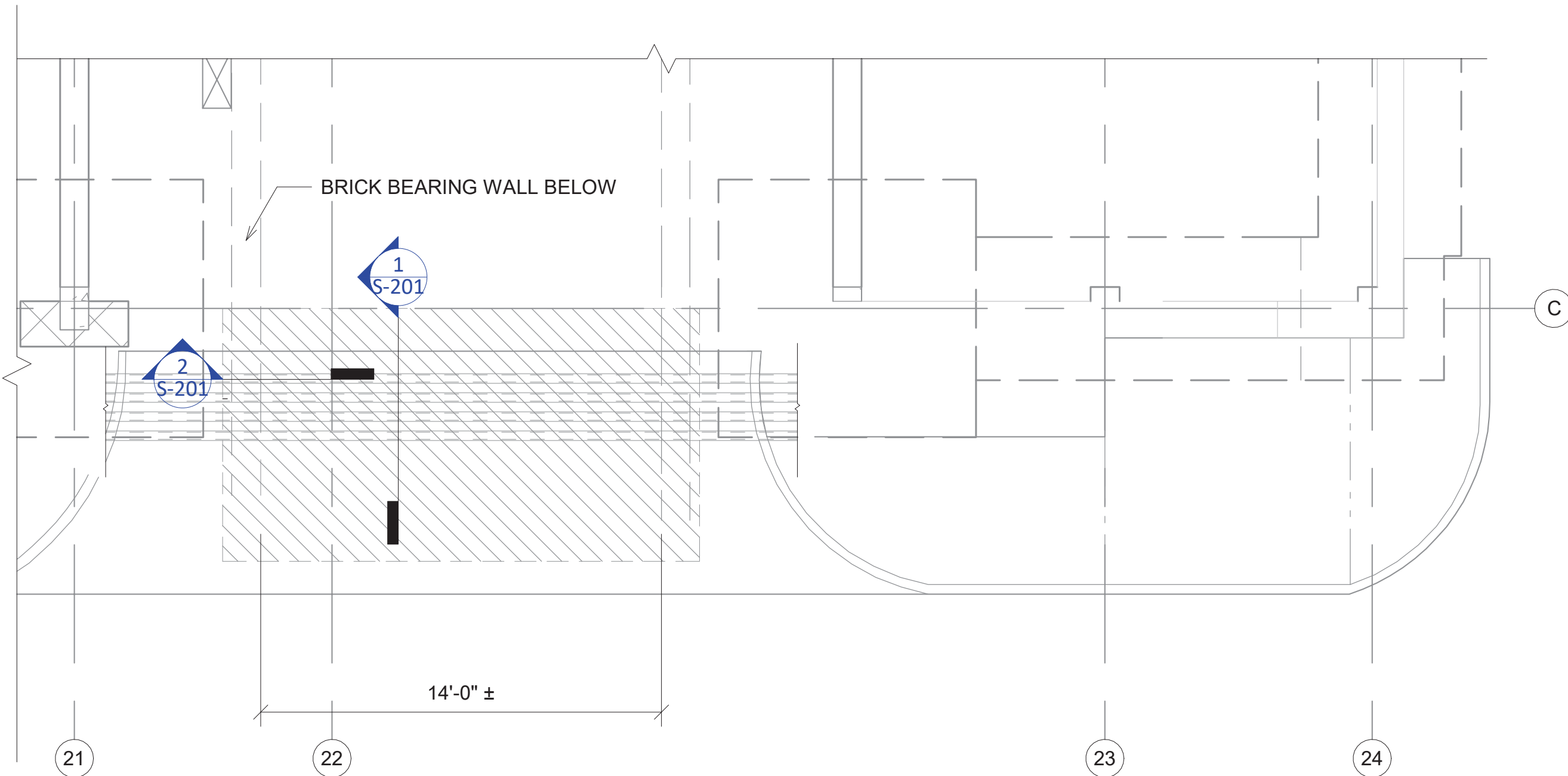
Professional Certification
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Virginia,
License # 402047157 Exp. Date {3/31/22}



DRAWING TITLE	
PARTIAL PLANS	
SCALE:	1/4" = 1'-0"
DRAWN BY:	HC
CHECKED BY:	KZ
PROJECT NO:	190507-2105
SHEET NUMBER	

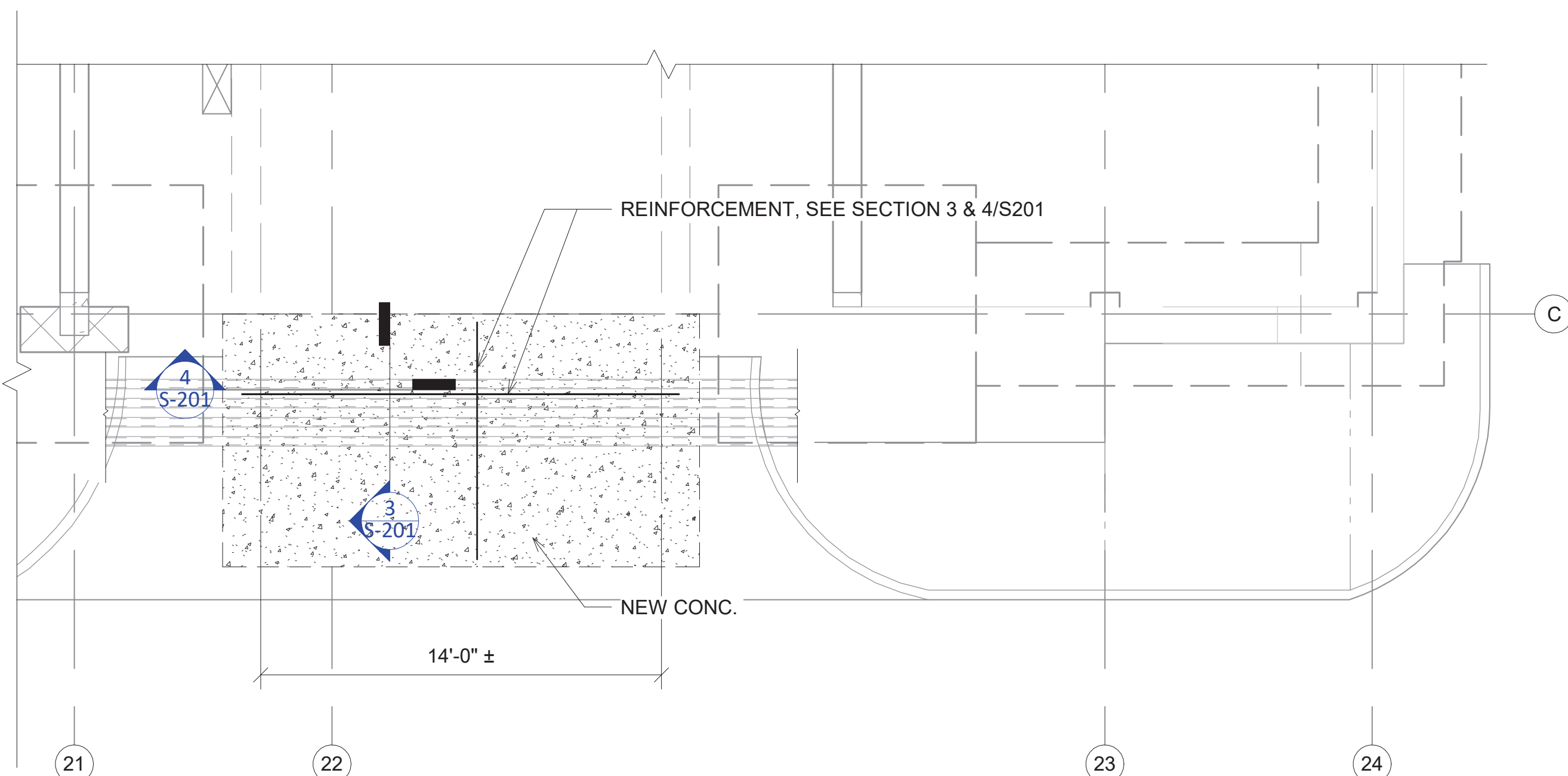
S-100

DATE: 08/10/2021



NOTES:
1. " " DENOTES THE DEMOLITION AREA.

1 **PARTIAL GROUND FLOOR DEMO PLAN**
S-100 1/4" = 1'-0"



2
S-100

PATIAL GROUND FLOOR PLAN

1/4" = 1'-0"

GENERAL STRUCTURAL NOTES
THESE NOTES SUPPLEMENT THE SPECIFICATIONS. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

1. DESIGN CRITERIA:
- 1.1. BUILDING CODES USED FOR DESIGN:
- INTERNATIONAL BUILDING CODE 2012
 - 2015 VIRGINIA CONSTRUCTION CODE (VCC)
- 1.2. DESIGN LOADS:
- 1.2.1. DESIGN LIVE LOADS:
- | | |
|-------------------------------|---------|
| GARAGE: | 50 PSF |
| GARAGE ENTRANCE RAMP NEW SLAB | 16 KIPS |
| H20 WHEEL LOAD: | |
- 1.2.2. SNOW LOAD:
- | | |
|-------------------|--------|
| GROUND SNOW LOAD: | 43 PSF |
|-------------------|--------|
- 1.3. DESIGN STRENGTHS:
- 1.3.1. CONCRETE:
- ALL CONCRETE SHALL BE STONE AGGREGATE UNLESS NOTED...
MINIMUM CONCRETE 28-DAY COMPRESSIVE STRENGTH SHALL BE
AS FOLLOWS:
- | <u>CLASS</u> | <u>STRENGTH AT
28 DAYS (PSI)</u> | <u>TYPE</u> | <u>LOCATION</u> |
|--------------|--------------------------------------|---------------------------|-----------------|
| A | 4000 | STD. WT.
AIR-ENTRAINED | EXTERIOR SLABS |
- 1.3.2. CONCRETE REINFORCEMENT:
- DEFORMED BARS: FY = 60 KSI ASTM A615
- WELDED WIRE FABRIC: FY = 70 KSI ASTM A185

- 2.2. CONCRETE:**
- 2.1. REINFORCING STEEL:**
- 2.1.1. REFINISHING MANUALS:** MOST RECENT EDITION OF THE FOLLOWING;
- ACI 313 "ACI DETAILING MANUAL"
 - ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
 - CRSI MSP "MANUAL OF STANDARD PRACTICE"
 - AWS D14 "STRUCTURAL WELDING CODE - REINFORCING STEEL"
 - CRSI "RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS"
- 2.1.2. THE REINFORCING STEEL CONTRACTOR SHALL FABRICATE ALL REINFORCING AND TENSION ALL ACCESSORIES, CHAIRS, SPACER BARS AND SUPPORTS NECESSARY TO SECURE THE REINFORCEMENT UNLESS SHOWN OTHERWISE ON THE PLANS AND/OR DETAILS.**
- 2.1.3. CONCRETE REINFORCEMENT SHALL BE PLACED ACCORDING TO AC AND CRSI "RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS".**
- 2.1.4. CLEAR COVER FOR CONCRETE REINFORCEMENT:**
- FOOTINGS "2" SITS "3" BOTTOM
 - PEDESTALS "2" TO TIES
 - FOUNDATION WALLS:
 - EXTERIOR FACE "2"
 - INTERIOR FACE "1"
 - SLAB ON GRADE CENTER OF SLAB
- 2.1.5. COMPRESSION LAP SPICES FOR GRADE 60 BARS SHALL BE 30 BAR DIAMETER MINIMUM UNLESS MORE DETAILED OTHERWISE. WHEN BARS OF DIFFERENT SIZES ARE USED IN COMPRESSION, SPICE LENGTH SHALL BE THE LARGER OF THE DEVELOPMENT LENGTH OF THE LARGER BAR OR THE SPICE LENGTH OF THE SMALLER BAR. TENSION LAP SPICES SHALL BE AS DETAILED.**
- 2.1.6. LAP SPICES SHALL BE IN ACCORDANCE WITH THE TABLE SHOWN IN THE DRAWINGS UNLESS NOTED OTHERWISE. WHERE CLASSES ARE NOT CALLED OUT ON DRAWINGS, USE CLASS "A" SPICES.**
- 2.1.7. LAP SPICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE UNLESS NOTED OTHERWISE. WHERE CLASSES ARE NOT CALLED OUT ON DRAWINGS, USE CLASS "A" SPICES.**
- 2.1.7.1. SPICES: F'C = 4,000 PSI, FY = 60,000 PSI, NORMAL WEIGHT**

BAR SIZE	TENSION SPLICES (INCHES)		OTHER BARS		COMPRESSION SPLICES (INCHES)
	TOP BARS	A B	A	B	
#3	19	25	15	19	12
#4	25	33	19	25	15
#5	31	41	24	31	19
#6	37	49	29	37	23
#7	54	71	42	54	26
#8	62	81	48	62	30
#9	70	91	54	70	34
#10	78	101	60	78	38
#11	85	111	66	85	42

- 2.1.8. ALL WELDED WIRE FABRIC ONE FULL SPACE PLUS 2" AT SPLICES AND WIRE TOGETHER.
- 2.1.9. COLLATED FIBRILLATED POLYPROPYLENE FIBER MAY BE USED IN LIEU OF WELDED WIRE FABRIC FOR 4" CONCRETE SLABS-ON-GRADE. THE AMOUNT OF FIBER TO BE ADDED TO THE CONCRETE IS PER MANUFACTURER RECOMMENDATIONS WITH A MINIMUM AMOUNT OF 1.5 POUNDS PER CUBIC YARD. CONTROL JOINTS IN THE SLAB-ON-GRADE ARE TO BE SPACED AT 12'-0" ON CENTER MAXIMUM IN EACH DIRECTION.
- 2.1.10. NO WELDING OR REINFORCEMENT SHALL BE PERMITTED UNLESS SPECIFICALLY CALLED FOR OR APPROVED BY THE STRUCTURAL ENGINEER.

- MISCELLANEOUS:
- 3.1. CONSTRUCTION JOINTS:
- 3.1.1. THE CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING THE PROPOSED CONSTRUCTION AND CONTROL JOINTS FOR ALL AREAS. THIS INCLUDES WALLS, STRUCTURAL FLOOR SYSTEMS, SLABS ON GRADE, ETC. THIS DRAWING SHALL BE REVIEWED BY THE ARCHITECT/ENGINEER AND RETURNED TO THE CONTRACTOR PRIOR TO POURING ANY CONCRETE. THE CONSTRUCTION JOINT DRAWING SHALL BE FURNISHED TO THE FABRICATORS BEFORE THEIR SHOP DRAWINGS ARE SUBMITTED.
- 3.1.2. IF THE CONSTRUCTION JOINTS AFTER BEING REVIEWED, ARE CHANGED, REVISED DRAWINGS SHALL BE SUBMITTED FOR REVIEW.
- 3.1.3. CONSTRUCTION JOINTS SHALL BE MADE AS DETAILED ON THE DRAWINGS.
- 3.1.4. CONSTRUCTION JOINTS IN CONCRETE FOUNDATION WALLS SHALL BE LOCATED SO NO SINGLE POUR IS LONGER THAN 40 FEET.
- 3.2. ANCHOR BOLTS:
- 3.2.1. ALL ANCHOR BOLTS FOR MECHANICAL AND ELECTRICAL EQUIPMENT ARE FURNISHED AND LOCATED BY THE RESPECTIVE CONTRACTORS AND SET BY THE GENERAL CONTRACTOR EXCEPT WHERE THE OTHER CONTRACTORS FURNISH THEIR OWN CONCRETE PADS.
- 3.3. SLEEVES:
- 3.3.1. ALL PIPE SLEEVES ARE FURNISHED BY AND LOCATED BY THE MECHANICAL AND ELECTRICAL CONTRACTORS AND SET BY THE GENERAL CONTRACTOR.
- 3.4. VERIFICATIONS:
- 3.4.1. THE GENERAL CONTRACTOR SHALL VERIFY ALL OPENINGS SIZES, PAD SIZES, AND LOCATIONS WITH THE RESPECTIVE CONTRACTORS.
- 3.4.2. MECHANICAL STEEL SUPPLIER AND ERECTOR ARE RESPONSIBLE FOR PROVIDING DECK REINFORCING OR FRAMING AS SHOWN ON TYPICAL STRUCTURAL DETAILS FOR MECHANICAL ROOF OPENINGS. SEE MECHANICAL DRAWINGS FOR QUANTITIES, SIZES AND LOCATIONS.
- 3.5. CORE DRILLING:
- 3.5.1. ALL CORE DRILLING SHALL BE DONE BY THE MECHANICAL AND ELECTRICAL CONTRACTORS FOR THEIR OWN WORK UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR. NO REINFORCING SHALL BE CUT. VERIFY LOCATION OF REINFORCING BEFORE CORE DRILLING. THERE SHALL NOT BE ANY CORE DRILLING THROUGH BEAMS OR COLUMNS. MAXIMUM CORE HOLE THROUGH SLABS SHALL BE PIPE DIAMETER PLUS 1".
- 3.6. GENERAL:
- 3.6.1. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THE STRUCTURAL DESIGN IS BASED ONLY ON THE BUILDING IN ITS COMPLETED STATE. CONTRACTORS AND THEIR SUBS SHALL TAKE WHATEVER PRECAUTIONS ARE NECESSARY TO WITHSTAND ALL HORIZONTAL AND VERTICAL LOADINGS THAT MAY ENCOUNTERED DURING THE CONSTRUCTION PRIOR TO COMPLETION OF THE BUILDING.
- 3.6.2. DURING CONSTRUCTION, THE CONTRACTOR MAY ENCOUNTER EXISTING CONDITIONS WHICH ARE NOT NOW KNOWN OR ARE AT VARIANCE WITH PROJECT DOCUMENTATION (DISCOVERY). SUCH CONDITIONS MAY INTERFERE WITH NEW CONSTRUCTION OR REQUIRED PROTECTION AND/OR SUPPORT OF EXISTING WORK DURING CONSTRUCTION, OR MAY CONSIST OF DAMAGE OR DETERIORATION TO STRUCTURAL MATERIALS OR COMPONENTS WHICH COULD JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING(S).
- 3.6.3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL DISCOVERIES HE BELIEVES MAY INTERFERE WITH PROPER EXECUTION OF THE WORK OR JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING(S) PRIOR TO PROCEEDING WITH WORK RELATED TO SUCH DISCOVERIES.
- 3.6.4. HORIZONTAL FRAMING MEMBERS ARE DESIGNED FOR SUPERIMPOSED LOAD DEFLECTIONS AS TABULATED. DEFLECTIONS OF HORIZONTAL TO HORIZONTAL FRAMING MEMBERS ARE ADDITIVE. SUBCONTRACTORS SHALL MAKE ALLOWANCE FOR INSTALLATION AND OPERATION OF THEIR SYSTEMS TO ACCOMMODATE THESE DEFLECTIONS.
- TYPICAL
- ROOF LIVE LOAD SPAN/360
- FLOOR LIVE SPAN/360
- FLOOR LIVE + DEAD SPAN/240

4. **NEW WORK IN CONJUNCTION WITH EXISTING CONSTRUCTION:**
- 4.1. **VERIFICATION:** THE CONTRACTOR SHALL VERIFY, BY FIELD CHECK, ALL SIZES, DIMENSIONS, ELEVATIONS, LOCATIONS, ETC. OF ELEMENTS OF THE EXISTING CONSTRUCTION WHICH ARE RELATIVE TO THE NEW CONSTRUCTION.
- 4.2. **DIMENSIONS:** ALL DIMENSIONS INVOLVING NEW WORK TYING INTO OR GOVERNED BY EXISTING CONSTRUCTION SHALL BE FIELD CHECKED BY THE CONTRACTOR AND FURNISHED TO THE SUB-CONTRACTOR PRIOR TO FABRICATION OF ANY WORK. THE VERIFIED DIMENSIONS SHALL APPEAR AND BE NOTED AS SUCH ON THE FIRST SHOP DRAWING SUBMITTED.
- 4.3. **ASSUMPTIONS:** THE ENGINEER HAS MADE ASSUMPTIONS CONCERNING THE SOUNDNESS OF THE EXISTING BUILDINGS AND THESE ASSUMPTIONS ARE THAT THE BUILDING WAS DESIGNED AND CONSTRUCTED IN CONFORMITY WITH GOOD DESIGN AND CONSTRUCTION PRACTICES. THE CONTRACTOR SHALL TAKE EXTRAORDINARY PRECAUTIONS CONCERNING PRESERVATION OF THE BUILDING DURING DEMOLITION AND NEW CONSTRUCTION WORK. FURTHER, HE SHALL AGREE TO ASSUME ALL RESPONSIBILITY FOR THE PRESERVATION OF THE PROPERTY.
- 4.4. **NOTIFICATION:** THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS AND ACTUAL FIELD CONDITIONS.

ABBREVIATION INDEX FOR STRUCTURAL DRAWINGS

@	AT	HT	HEIGHT
ACI	AMERICAN CONCRETE INSTITUTE	IN	INCH
ADD'L	ADDITIONAL	INT	INTERIOR
ARCH	ARCHITECTURAL	JT	JOINT
ASTM	AMERICAN STANDARDS OF TESTING MATERIALS	JST	JOIST
		LBS	POUNDS
BLDG	BUILDING	LLH	LONG LEG HORIZONTAL
BLKG	BLOCKING	LLV	LONG LEG VERTICAL
BM	BEAM	LOC	LOCATION
B.O.	BOTTOM OF	LT WT	LIGHT WEIGHT
BOTT	BOTTOM	HORIZ	HORIZONTAL
BRG	BEARING	MANUF	MANUFACTURER
BWTN	BETWEEN	MAX	MAXIMUM
	CENTERLINE	MECH	MECHANICAL
CANT	CANTILEVER	MEP	MECHANICAL ELECTRICAL & PLUMBING
CJ	CONTROL JOINT	MIN	MINIMUM
CL	CLEAR	MISC	MISCELLANEOUS
COL	COLUMN	NTS	NOT TO SCALE
COMP	COMPOSITE	O.C.	ON CENTER
CONC	CONCRETE	OPNG	OPENING
CONN	CONNECTION	OPP	OPPOSITE HAND
CONT	CONTINUOUS	PL	PLATE
COORD	COORDINATE	PSF	POUNDS PER SQUARE FOOT
CMU	CONCRETE MASONRY UNIT	PSI	POUNDS PER SQUARE INCH
	DOUBLE	RAD	RADIUS
DBL	DEMOLITION	REINF	REINFORCED
DEMO	DETAIL	REQ'D	REQUIRED
DET	DIAMETER	SCHED	SCHEDULE
ø	DIMENSION	SECT	SECTION
DIM	DITTO	SHT	SHEET
DO	DRAWING	SIM	SIMILAR
DWG	DRAWEL	SOG	SLAB ON GRADE
DWL	EACH	SPCS	SPACES
EA	EACH FACE	SPECS	SPECIFICATIONS
EJ	EXPANSION JOINT	SS	SQUARE
EL	ELEVATION	SQ	STAINLESS STEEL
ELEC	ELECTRICAL	STD	STANDARD
ELEV	ELEVATOR	STIFF	STIFFENER
EMB	EMBODIMENT	STL	STEEL
EOD	EDGE OF DECK	STRUCT	STRUCTURAL
EOS	EDGE OF SLAB	T&B	TOP AND BOTTOM
EQ	EQUAL	T.O	TOP OF
EQUIP	EQUIPMENT	TYP	TYPICAL
ES	EACH SIDE	UNO	UNLESS NOTED OTHERWISE
EW	EACH WAY	VIF	VERIFY IN FIELD
EX	EXISTING	VERT	VERTICAL
EXT	EXTERIOR	WF	WIDE FLANGE
Fb	ALLOWABLE FLEXURAL STRENGTH	WP	WORK POINT
		WT	WEIGHT
Fv	ALLOWABLE SHEAR STRENGTH	WWF	WELDED WIRE FABRIC
		W/	WITH
F'C	COMPRESSION PARALLEL TO GRAIN		
F'C	CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS		
FDN	FOUNDATION		
FLR	FLOOR		
FT	FEET		
FTG	FOOTING		
GA	GAGE		
GALV	GALVANIZED		
GB	GRADE BEAM		
GC	GENERAL CONTRACTOR		



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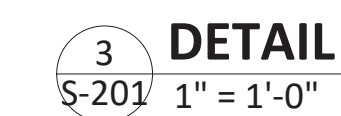
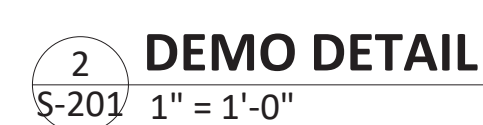
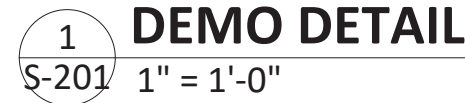
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SECTIONS & DETAILS

SHEET NUMBER

DATE: 08/10/2021





Construction Photos

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