

ADDENDUM THREE

Project No.: **23-072**

Date: **December 28, 2023**

Subject: **CHANGES to the BIDDING DOCUMENTS**

Project: **EXTERIOR PEDESTRIAN BRIDGE REPLACEMENT PROJECT FOR
ORANGEVILLE CUSD #203
ORANGEVILLE, ILLINOIS**

Bids Due: **2:00PM, WEDNESDAY, JANUARY 3, 2024**

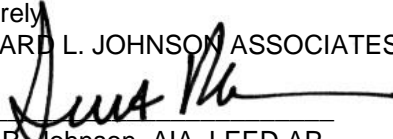
From: **ARCHITECT: RICHARD L. JOHNSON ASSOCIATES, INC.
4703 CHARLES STREET
ROCKFORD, IL 61108**

To: **ALL PROJECT DOCUMENT HOLDERS**

Please reproduce this Addendum as needed, and attach to the Project Manuals for the above project.

Bidders shall indicate receipt of this and all Addenda in the space provided on the Bid Form. Failure to do so may be sufficient cause to reject the bid.

Sincerely,
RICHARD L. JOHNSON ASSOCIATES, INC.



Scott R. Johnson, AIA, LEED AP

This Addendum consists of:
Pages 1 thru 2.
24x36 Drawings S001, S101 and A101.

NOTE: Wherein this Addendum conflicts with the original Project Manual and Drawings, this Addendum shall govern.

CHANGES to the PROJECT MANUAL and DRAWINGS

1. GENERAL ITEMS

1.1. Contractor to hire a private locator to locate any private utilities that might run in the construction area.

2. DRAWING S001

2.1. Structural Steel Item 9: replace note with Refer to architectural drawings and specifications for steel finishes.

3. DRAWING S101

3.1. Bridge Plan 1: omit the (+3/8) at the two interior HSS8x8x5/8"

3.2. Bridge Plan 1: add L3 x 3 x 1/4" x cont. angle on one side of the two interior HSS8x8 for connection of grating.

3.3. Detail 2: Add 3/16" bent plate with 4" legs at the transition from the "level" to the 'slope down'. Bolt to supporting structure with carriage bolts. Chamfer both long edges of plate. The bent plate shall extend the full width of the bridge.

3.4. Detail 3: Replace L8x6x3/8" with an L4x4x3/8" with the vertical leg down and welded to the outside face of the HSS and the horizontal leg out to support the handrail.

4. DRAWING A101

4.1 Detail 6/A101: Revised to match Detail 3/S101.

END ADDENDUM NUMBER 3

DESIGN DATA

CODES AND STANDARDS

ALL WORK SHALL CONFORM TO THE FOLLOWING CODES AND STANDARDS:

- "INTERNATIONAL BUILDING CODE", 2015 EDITION, INTERNATIONAL CODE COUNCIL WITH ALL LOCAL BUILDING CODE AMENDMENTS AND REQUIREMENTS
"ASCE 7, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES", LATEST EDITION, AMERICAN SOCIETY OF CIVIL ENGINEERS
"ACI 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", LATEST EDITION, AMERICAN CONCRETE INSTITUTE
"ACI 301, SPECIFICATION FOR STRUCTURAL CONCRETE", LATEST EDITION, AMERICAN CONCRETE INSTITUTE
"ACI 305 GUIDE TO HOT WEATHER CONCRETING", LATEST EDITION, AMERICAN CONCRETE INSTITUTE
"ACI 306 GUIDE TO COLD WEATHER CONCRETING", LATEST EDITION, AMERICAN CONCRETE INSTITUTE
"ACI 315 DETAILS AND DETAILING OF CONCRETE REINFORCEMENT", LATEST EDITION, AMERICAN CONCRETE INSTITUTE
"ACI 315R MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURE", LATEST EDITION, AMERICAN CONCRETE INSTITUTE
"ACI 302 GUIDE TO CONCRETE FLOOR AND SLAB CONSTRUCTION" LATEST EDITION, AMERICAN CONCRETE INSTITUTE
"MANUAL OF STANDARD PRACTICE", LATEST EDITION, AMERICAN CONCRETE INSTITUTE
"MANUAL OF STEEL CONSTRUCTION", 15TH EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION
"AISC 360 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", LATEST EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION
"SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS", LATEST EDITION, RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS.
"AISC 303, CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", LATEST EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION

SCOPE OF WORK

DESIGN OF SUBSTRUCTURE AND SUPERSTRUCTURE FOR PEDESTRIAN ACCESS BRIDGE REPLACEMENT AT THE EXISTING JUNIOR/SENIOR HIGH SCHOOL.

DESIGN LOADS

FLOOR LIVE LOAD

Table with 2 columns: Description (FLOOR, HANDRAILS (UNIFORM), HANDRAILS (CONCENTRATED)) and Value (100 PSF, 50 PLF, 200 LBS)

SNOW LOADS

Table with 2 columns: Description (GROUND SNOW, PG IMPORTANCE FACTOR, I, THERMAL FACTOR, CT, SNOW (DESIGN)) and Value (25 PSF, 1.0, 1.0, 30 PSF)

WIND LOADS

Table with 2 columns: Description (BASIC WIND SPEED EXPOSURE, RISK CATEGORY, INTERNAL PRESSURE COEFFICIENT, GCPI COMPONENTS AND CLADDING) and Value (V = 115 MPH, C, II, +/-0.18, 30 PSF MINIMUM)

MATERIALS

CONCRETE

Table with 2 columns: Description (CONCRETE EXPOSED TO WEATHER AND EARTH SHALL BE AIR-ENTRAINED AIR-ENTRAINMENT 5% +/- 1% BY VOLUME (REFER TO ACI 318-14 TABLE 19.3.3.1) AIR-ENTRAINMENT ADMIXTURE, CEMENT (TYPE I, II, OR III), CEMENT (CAST AGAINST EARTH-TYPE III)) and Value (ASTM C260, ASTM C150, ASTM C150)

NORMAL WEIGHT CONCRETE (145 PCF) 28 DAY COMPRESSIVE STRENGTH AS FOLLOWS:

APPLICATION (EXPOSURE CLASSIFICATION)

Table with 2 columns: Description (FOOTINGS (F1, S0, W0, C0), WALLS (F1, S0, W0, C1), SLAB-ON-GRADE (F0, S0, W0, C0)) and Value (3000 PSI, 4000 PSI, 4000 PSI)

REINFORCING STEEL

Table with 2 columns: Description (DEFORMED REINFORCING BARS, WELDED WIRE REINFORCEMENT) and Value (ASTM A615, 60 KSI, ASTM A1064)

STRUCTURAL STEEL

Table with 2 columns: Description (STRUCTURAL WIDE FLANGE SHAPES, MISCELLANEOUS SHAPES & PLATES, STRUCTURAL TUBE (HSS), ANCHOR BOLTS, 3/4" U.N.O., STRUCTURAL BOLTS, WELDING ELECTRODES, HEADED STUDS, 3/4" U.N.O., POST INSTALLED ANCHORS (MECHANICAL/CHEMICAL)) and Value (ASTM A992 GR. 50, ASTM A36 U.N.O. ON DRAWINGS, ASTM A500 GR. B, ASTM F1554 GR36 MIN, ASTM A325 N, E-70XX, ASTM A1044, HILTI, SIMPSON OR APPROVED EQUAL)

FOUNDATIONS

- 1. AN ALLOWABLE SOIL BEARING CAPACITY OF 2000 PSF HAS BEEN ASSUMED FOR DESIGN PURPOSES. THE CONTRACTOR SHALL VERIFY THE ALLOWABLE BEARING CAPACITY PRIOR TO CONSTRUCTION AND NOTIFY HIGHLAND ENGINEERING IMMEDIATELY OF ANY DISCREPANCIES.
2. ALL WELL GRADED GRANULAR MATERIAL FOR FILLS DEEMED ACCEPTABLE BY THE OWNER'S GEOTECHNICAL ENGINEER SHALL BE PLACED IN LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS, AND COMPACTED TO MINIMUM OF 95 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D1557)
3. ALL FOOTING SUBGRADES AND ALL SLAB SUBGRADES INCLUDING PIT SLABS, ALL BACKFILL AROUND AND ABOVE ALL FOUNDATION ELEMENTS, FOOTINGS, CAPS, MATS, GRADE BEAMS AND PITS, SHALL BE COMPACTED TO MINIMUM 95 PERCENT OF THE MODIFIED PROCTOR DENSITY IN ACCORDANCE WITH ASTM D1557.

CONSTRUCTION

GENERAL

- 1. REPRODUCTION OF ALL OR PART OF THE STRUCTURAL CONTRACT PLANS OR DETAIL DRAWINGS FOR RESUBMITTAL AS SHOP OR ERECTION DRAWINGS IS PROHIBITED. SHOP DRAWING SUBMITTALS PRODUCED IN SUCH A MANNER SHALL BE REJECTED AND RETURNED WITHOUT FURTHER REVIEW.
2. THE STRUCTURAL CONTRACT PLANS AND DETAIL DRAWINGS ARE ONLY COMPLETE WHEN USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL/SITE DRAWINGS. CONTRACTOR(S) SHALL REFER TO THE COMPLETE SET OF DRAWINGS WHEN PREPARING SUBMITTAL PACKAGES.

- 3. THE CONTRACTOR SHALL COORDINATE THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL/SITE DRAWINGS FOR DIMENSIONS, DETAILS, ETC. OF THE ITEMS WHICH PENETRATE OR ATTACH TO THE BUILDING STRUCTURE.
4. IN CASE OF CONFLICT BETWEEN NOTES, DETAILS AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENT SHALL GOVERN.
5. THE CONTRACTOR(S) SHALL COORDINATE THE DIMENSIONS ON THE STRUCTURAL DRAWINGS WITH THOSE ON THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL/SITE DRAWINGS. THE CONTRACTOR(S) SHALL IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ARCHITECT.
6. CONTRACTOR(S) SHALL VISIT SITE PRIOR TO FINALIZING PRICING AND PROPOSAL AND SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS IN FIELD PRIOR TO STARTING WORK. CONTRACTOR(S) SHALL NOTIFY ARCHITECT IMMEDIATELY IF FIELD CONDITIONS VARY FROM THOSE SHOWN ON DRAWINGS. HIGHLAND ENGINEERING, P.C. IS NOT RESPONSIBLE FOR THE ACCURACY OF EXISTING INFORMATION PROVIDED BY OTHERS. ADDITIONAL SERVICES MAY BE CHARGED FOR DESIGN WORK RESULTING FROM THE VARIATION OF EXISTING CONDITIONS.
7. WRITTEN REQUESTS FOR INFORMATION (RFI) SHALL BE INITIATED BY CONTRACTOR FOR INQUIRES, CLARIFICATIONS, DISCREPANCIES, INTERPRETATION OF CONTRACT DOCUMENTS, ETC. CONTRACTOR SHALL NOT PROCEED WITH THE WORK UNTIL A WRITTEN RESPONSE IS RECEIVED FROM THE ENGINEER.
8. IF CONTRACTOR DETERMINES THAT A CHANGE IN THE SCOPE OF WORK EXISTS THAT WILL RESULT IN INCREASED COSTS, CONTRACTOR SHALL SUBMIT A CHANGE ORDER REQUEST TO THE PROJECT OWNER AND SHALL NOT PROCEED WITH THE CHANGED WORK UNTIL WRITTEN RESPONSE TO REQUEST HAS BEEN RECEIVED FROM OWNER.
9. REFER TO PROJECT SPECIFICATIONS FOR REQUIRED INSPECTIONS AND ASSOCIATED COSTS.
10. MANUFACTURED ITEMS SHALL COMPLY WITH CODES AND SPECIFICATIONS, INDUSTRY STANDARDS, LOCAL JURISDICTIONS AND SPECIFIC CRITERIA NOTED HEREIN. COMPLIANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DESIGN MANUFACTURING AND INSTALLATION AND SHALL REST SOLELY ON THE MANUFACTURER.
11. ALL GALVANIZING OF STEEL SHALL CONFORM TO ASTM A123, A53, A653 OR A767.

- 12. THESE DRAWINGS DESCRIBE THE COMPLETED PROJECT. THEY DO NOT INDICATE ELEMENTS WHICH MAY BE NECESSARY FOR CONSTRUCTION SAFETY. THE CONTRACTOR(S) IS SOLELY RESPONSIBLE FOR THE SAFETY IN AND ABOUT THE JOB SITE. OBSERVATION VISITS BY FIELD REPRESENTATIVE (ARCHITECT/ENGINEER) SHALL NOT INCLUDE OBSERVATIONS OF THE CONTRACTORS SAFETY PROVISIONS.
13. THIS PROJECT HAS BEEN DESIGNED FOR THE WEIGHTS AND MATERIALS INDICATED ON THE DRAWINGS AND FOR THE LIVE LOADS INDICATED IN THE DESIGN DATA. IT IS THE CONTRACTOR(S) RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGING, BRACING, SHEETING AND SHORING, ETC.
14. HIGHLAND ENGINEERING, P.C. PROHIBITS THE USE OF OR THE SUITABILITY OF THESE DOCUMENTS ON EXTENSIONS OF THIS PROJECT OR OTHER PROJECTS. ANY RE-USE WITHOUT WRITTEN PERMISSION OF HIGHLAND ENGINEERING, P.C. IS AT THE SOLE RISK OF OTHERS AND WITHOUT LEGAL EXPOSURE TO OR LIABILITY TO HIGHLAND ENGINEERING, P.C.
15. HIGHLAND ENGINEERING, P.C. IS NOT RESPONSIBLE FOR SUPERVISING, DIRECTING, OR HAVING CONTROL OVER THE CONSTRUCTION WORK. HIGHLAND ENGINEERING, P.C. DOES NOT HAVE THE AUTHORITY OR RESPONSIBILITY FOR THE CONTRACTOR'S CHOSEN MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION.
16. THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL SAFETY REQUIREMENTS AND REGULATIONS OF ALL LOCAL AND FEDERAL GOVERNING AUTHORITIES.

- 17. WRITTEN REQUESTS FOR INFORMATION (RFI) SHALL BE INITIATED BY CONTRACTOR FOR INQUIRES, CLARIFICATIONS, DISCREPANCIES, INTERPRETATION OF CONTRACT DOCUMENTS, ETC. CONTRACTOR SHALL NOT PROCEED WITH THE WORK UNTIL A WRITTEN RESPONSE IS RECEIVED FROM THE ENGINEER.
18. IF CONTRACTOR DETERMINES THAT A CHANGE IN THE SCOPE OF WORK EXISTS THAT WILL RESULT IN INCREASED COSTS, CONTRACTOR SHALL SUBMIT A CHANGE ORDER REQUEST TO THE PROJECT OWNER AND SHALL NOT PROCEED WITH THE CHANGED WORK UNTIL WRITTEN RESPONSE TO REQUEST HAS BEEN RECEIVED FROM OWNER.
19. REFER TO PROJECT SPECIFICATIONS FOR REQUIRED INSPECTIONS AND ASSOCIATED COSTS.
20. MANUFACTURED ITEMS SHALL COMPLY WITH CODES AND SPECIFICATIONS, INDUSTRY STANDARDS, LOCAL JURISDICTIONS AND SPECIFIC CRITERIA NOTED HEREIN. COMPLIANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DESIGN MANUFACTURING AND INSTALLATION AND SHALL REST SOLELY ON THE MANUFACTURER.
21. ALL GALVANIZING OF STEEL SHALL CONFORM TO ASTM A123, A53, A653 OR A767.

FOUNDATIONS

- 1. REFER TO THE PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT REQUIREMENTS FOR EXCAVATION AND PREPARATION OF THE FOUNDATIONS AND THE SLAB-ON-GRADE SUBGRADE, INCLUDING COMPACTION PROCEDURES.
2. THE CONTRACTOR SHALL PROTECT CONCRETE BEARING ELEVATIONS FROM FROST AT ALL TIMES. FROZEN SOIL BELOW CONCRETE BEARING ELEVATIONS MUST BE REMOVED.
3. ALL EXTERIOR FOUNDATIONS SHALL BEAR A MINIMUM OF 4'-0" BELOW FINISHED GRADE, U.N.O.
4. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL.
5. CONCRETE FOR THE FOUNDATIONS SHALL BE POURED THE SAME DAY SUBGRADE APPROVAL IS GIVEN BY THE OWNER'S GEOTECHNICAL ENGINEER.

STRUCTURAL FILL UNDERNEATH FOOTINGS & SLAB-ON-GRADE

- 1. APPROVED MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS, MOISTURE CONDITIONED AS REQUIRED TO ACHIEVE COMPACTION TO A MINIMUM OF 95% MODIFIED PROCTOR UNDER FOOTINGS. COMPACTION OF FILL SOILS USED FOR SLAB-ON-GRADE SUBGRADE CONSTRUCTION SHALL BE SIMILARLY COMPACTED TO 95% OF STANDARD PROCTOR.
2. SUPERVISION OF THE PLACEMENT OF COMPACTED STRUCTURAL FILL SHALL BE BY A QUALIFIED GEOTECHNICAL ENGINEER/OWNER'S GEOTECHNICAL ENGINEER.

BACKFILL

- 1. ALL BACKFILL SHALL BE ACCOMPLISHED USING MATERIALS CONSISTING OF BANK RUN GRAVEL, CRUSHED STONE AND/OR MATERIAL APPROVED BY THE OWNER'S GEOTECHNICAL ENGINEER WITH OPTIMUM MOISTURE CONTENT TO COMPACTING AND SHALL BE FREE FROM DEBRIS.
2. BACKFILL SHALL BE PLACED EQUALLY ON BOTH SIDES OF FOUNDATION WALLS AND GRADE BEAMS. NO BACKFILL SHALL BE PLACED AGAINST BASEMENT WALLS UNTIL THE UPPER BRACING FLOORS ARE IN PLACE OR UNTIL ADEQUATE BRACING IS INSTALLED.

CONCRETE

- 1. THE COMPRESSIVE STRENGTH OF GROUT USED TO CONSTRUCT LEVEL COLUMN BEARING PLATES SHALL MATCH THE COMPRESSIVE STRENGTH OF THE SUPPORTING CONCRETE.
2. CONCRETE OR CONCRETE ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE PERMITTED IN ANY CONCRETE.
3. CONCRETE SHALL BE ADEQUATELY CONSOLIDATED DURING PLACEMENT. NEITHER OVER CONSOLIDATING NOR TRANSPORTING CONCRETE WITH VIBRATORS SHALL BE PERMITTED.
4. PREPARE AND TEST CONCRETE CYLINDERS AS OUTLINED IN CHAPTER 16 OF ACI 301 OR IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATIONS.
5. COLD WEATHER CONCRETE SHALL BE IN ACCORDANCE WITH ACI 306. HOT WEATHER CONCRETE SHALL BE IN ACCORDANCE WITH ACI 305.
6. ALL REINFORCING BARS AND ACCESSORIES SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI STANDARDS 315 AND 315R.

- 7. WELDING OF REINFORCING BARS SHALL NOT BE PERMITTED UNLESS SHOWN ON THE DRAWINGS. WHEN WELDING IS SHOWN, WELDS MUST COMPLY WITH "RECOMMENDED PRACTICE FOR WELDING REINFORCEMENT STEEL, METAL INSERTS AND CONNECTIONS IN REINFORCED CONCRETE CONSTRUCTION", AWS D1.4. IN NO CASE SHALL WELDING BE PERMITTED AT BAR BENDS, NOR TACK WELDING OF CROSSING BARS.
8. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
CONCRETE EXPOSED TO EARTH OR WEATHER 2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND 3/4"
SLABS, WALLS, JOISTS 3/4"
BEAMS, COLUMNS 1/2"
9. WALL POURS SHALL BE LIMITED TO 100 FEET. THE END OF POURS SHALL BE BULKHEADED WITH A SHEAR KEY AND DOWELS TO ENGAGE THE ADJACENT POUR. EXPOSED WALLS SHALL HAVE UNIFORM CONTROL JOINTS NOT TO EXCEED 20 FEET ON CENTER.
10. SLABS-ON-GRADE SHALL HAVE CONTROL JOINTS IN A SQUARE OR RECTANGULAR PATTERN. THE JOINT SPACING SHALL BE LIMITED TO THREE (3) TIMES THE SLAB THICKNESS (IN FEET) OR 12 FEET, WHICHEVER IS LESS. (U.N.O. ON DRAWINGS)
11. VAPOR BARRIER (AS NOTED ON ARCHITECTURAL DRAWINGS/SPECIFICATIONS) SHALL BE A MINIMUM OF 10 MIL. VAPOR BARRIER SHALL BE INSTALLED IN MAXIMUM SHEET SIZE AND A MINIMUM OF JOINTS. JOINTS SHALL BE LAPPED A MINIMUM OF 6" AND SHALL BE FULLY TAPED. LOCATION OF VAPOR BARRIER BELOW SLAB SHALL BE BASED ON OWNER'S USE AND SELECTED ARCHITECTURAL FINISH TREATMENTS. CONTRACTOR SHALL REFER TO THE LATEST EDITION OF ACI 302 FOR RECOMMENDED LOCATION. CONTRACTOR SHALL ALSO CONSULT PROJECT GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION. CARE SHALL BE TAKEN TO PREVENT RUPTURE OF VAPOR BARRIER.
12. GENERAL CONTRACTOR SHALL COORDINATE AND CHECK WITH TRADE CONTRACTORS, ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR OPENINGS, SLEEVES, ANCHORS, HANGERS, INSERTS, SLAB DEPRESSIONS AND OTHER ITEMS RELATED TO CONCRETE WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY BEFORE PERMITTING CONCRETE PLACEMENT. CONCRETE SURFACES SHALL BE SLOPED AS SHOWN ON DRAWINGS OR AS REQUIRED.
13. ALUMINUM, OR MATERIALS CONTAINING ALUMINUM, SHALL NOT BE PERMITTED IN THE CONCRETE UNLESS AN ADEQUATE COATING TO PREVENT ALUMINUM-CONCRETE REACTION IS PROVIDED. THIS INCLUDES PUMPING CONCRETE THROUGH ALUMINUM PIPE.

STRUCTURAL STEEL

- 1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE REFERENCED CODES AND STANDARDS NOTED ABOVE.
2. HORIZONTAL ELEMENTS SHALL BE DETAILED, MANUFACTURED AND INSTALLED WITH THE NATURAL CAMBER UP.
3. TYPICAL BEAM CONNECTIONS SHALL BE DESIGNED FOR 50% OF THE "ALLOWABLE UNIFORM LOAD IN KIPS" AS FOUND IN THE MANUAL OF STEEL CONSTRUCTION, UNLESS NOTED OTHERWISE ON DRAWINGS. THE STEEL CONTRACTOR HAS THE OPTION OF BOLTED OR WELDED CONNECTIONS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
4. MOMENT CONNECTIONS SHALL BE DESIGNED FOR FORCES NOTED ON DRAWINGS. IF NO FORCES ARE PROVIDED, THE CONNECTION SHALL BE DESIGNED TO DEVELOP THE FULL CAPACITY OF THE SPECIFIED MEMBER. THE STEEL CONTRACTOR HAS THE OPTION OF BOLTED OR WELDED CONNECTIONS, UNLESS NOTED OTHERWISE ON THE DRAWINGS. MOMENT CONNECTIONS WILL BE REVIEWED FOR COMPLIANCE OR CALCULATIONS MAY BE REQUIRED.
5. ALL WELDED CONNECTIONS AND JOINTS SHALL BE PERFORMED USING AWS PREQUALIFIED WELDING PROCEDURES AND AWS CERTIFIED WELDERS.
6. ALL BOLTED CONNECTIONS SHALL CONTAIN A MINIMUM OF TWO (2) BOLTS.
7. POST-INSTALLED ANCHORS SHALL BE PROVIDED TO ANCHOR STEEL TO MASONRY OR CONCRETE WHEN ANCHOR BOLTS, BEARING PLATES OR OTHER ANCHORAGE IS NOT SPECIFIED AND SHALL BE INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTION WITH MINIMUM EFFECTIVE EMBEDMENT DEPTH OF 8 TIMES ANCHOR DIAMETER, U.N.O.
8. STEEL BEAMS SHALL BEAR A MINIMUM OF 8" ON CONCRETE OR MASONRY, UNLESS NOTED OTHERWISE ON DRAWINGS. MINIMUM ANCHORAGE TO CONCRETE OR MASONRY SHALL BE (2) 1/2" DIAMETER HOOKED ANCHOR BOLTS OR HEADED STUDS WITH 4" EMBEDMENT.
9. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR STEEL FINISHES.
10. STEEL/LINTELS IN EXTERIOR WALLS SHALL BE HOT DIPPED GALVANIZED, U.N.O.
11. ALL COPES SHALL BE SHAPED NOTCH FREE TO A MINIMUM RADIUS OF 1/2 INCH

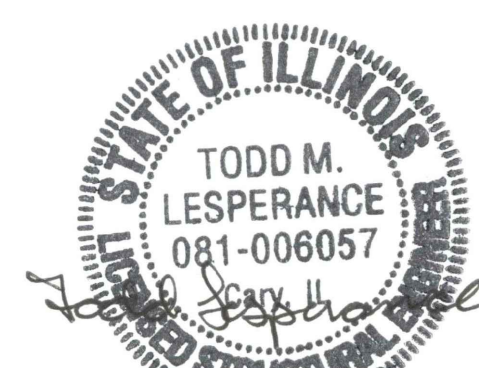
SPECIAL INSPECTIONS

- 1. SPECIAL INSPECTIONS ARE NOT REQUIRED FOR WORK OF A MINOR NATURE PER IBC 2015 SECTION 1704.2 EXEMPTION 1

SHOP DRAWING AND PRODUCT SUBMITTAL

- 1. SHOP DRAWINGS AND PROJECT SHALL BE FULLY REVIEWED BY THE CONTRACTOR PRIOR TO THE SUBMITTAL TO THE ARCHITECT/ENGINEER. SHOP DRAWINGS/CALCULATIONS SHALL BE SEALED BY A REGISTERED STRUCTURAL ENGINEER IN THE STATE OF ILLINOIS.
2. SHOP DRAWINGS/CALCULATIONS/SUBMITTALS SHALL BE PROVIDED TO THE ARCHITECT/ENGINEER AND SHALL INCLUDE, BUT NOT BE LIMITED TO SIZE, SPACING, CONNECTIONS, BEARING STIFFENERS, WEB STIFFENERS, BLOCKING, PLACEMENT, ETC. FOR THE FOLLOWING:
• CONCRETE WORK: (MIX DESIGNS, PLACEMENT OF ALL STEEL REINFORCEMENT)
• STEEL FRAMING, CONNECTION DESIGN, COATING.

AD 2023/12/28



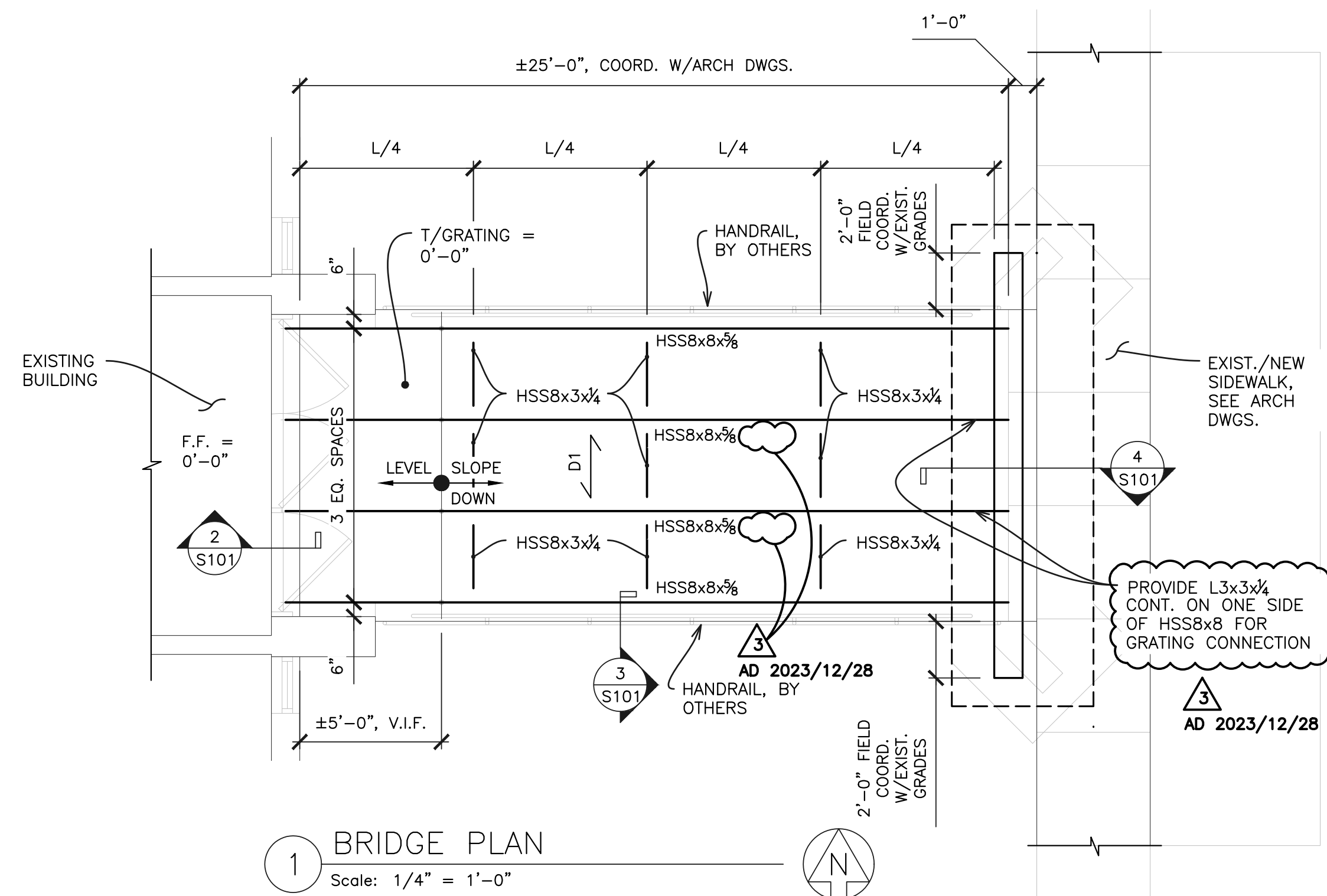
BRIDGE REPLACEMENT PROJECT AT ORANGEVILLE JUNIOR/SENIOR HIGH SCHOOL FOR ORANGEVILLE CUSD #203 ORANGEVILLE, ILLINOIS

RICHARD L. JOHNSON ASSOCIATES | ARCHITECTS

GENERAL NOTES

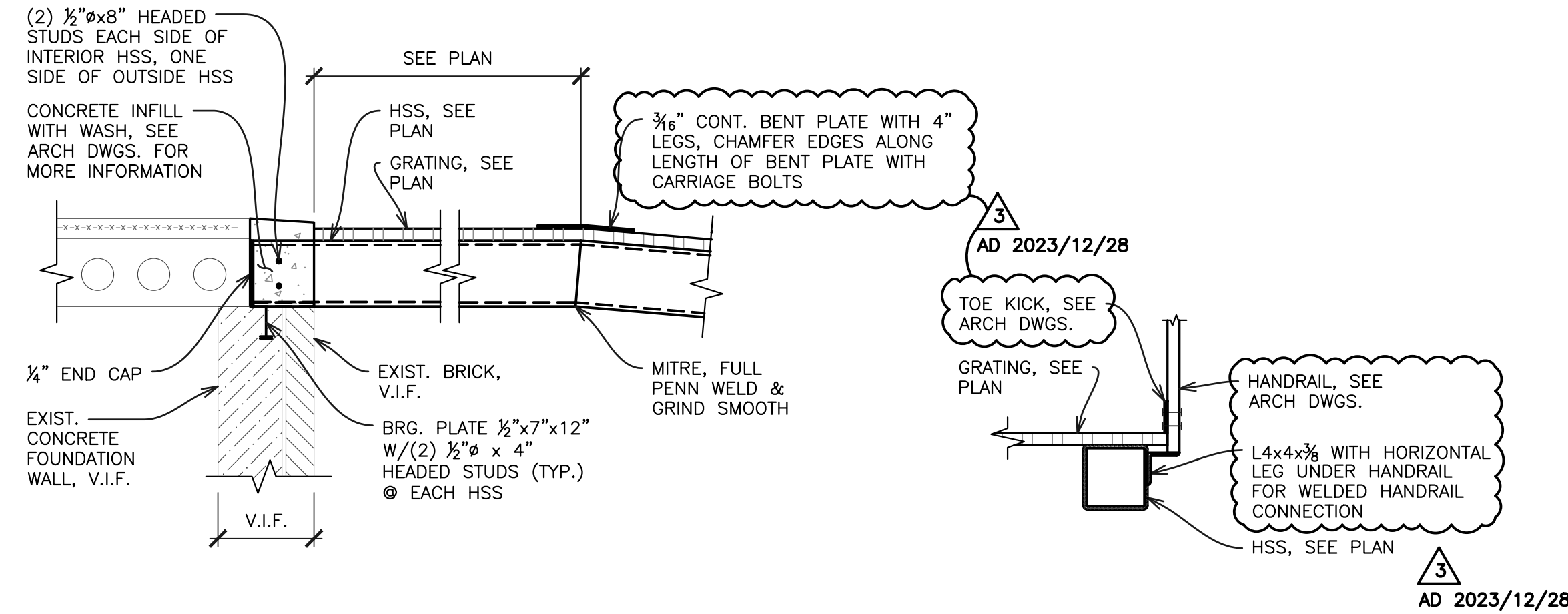
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SHEET NUMBER S001 OF 2



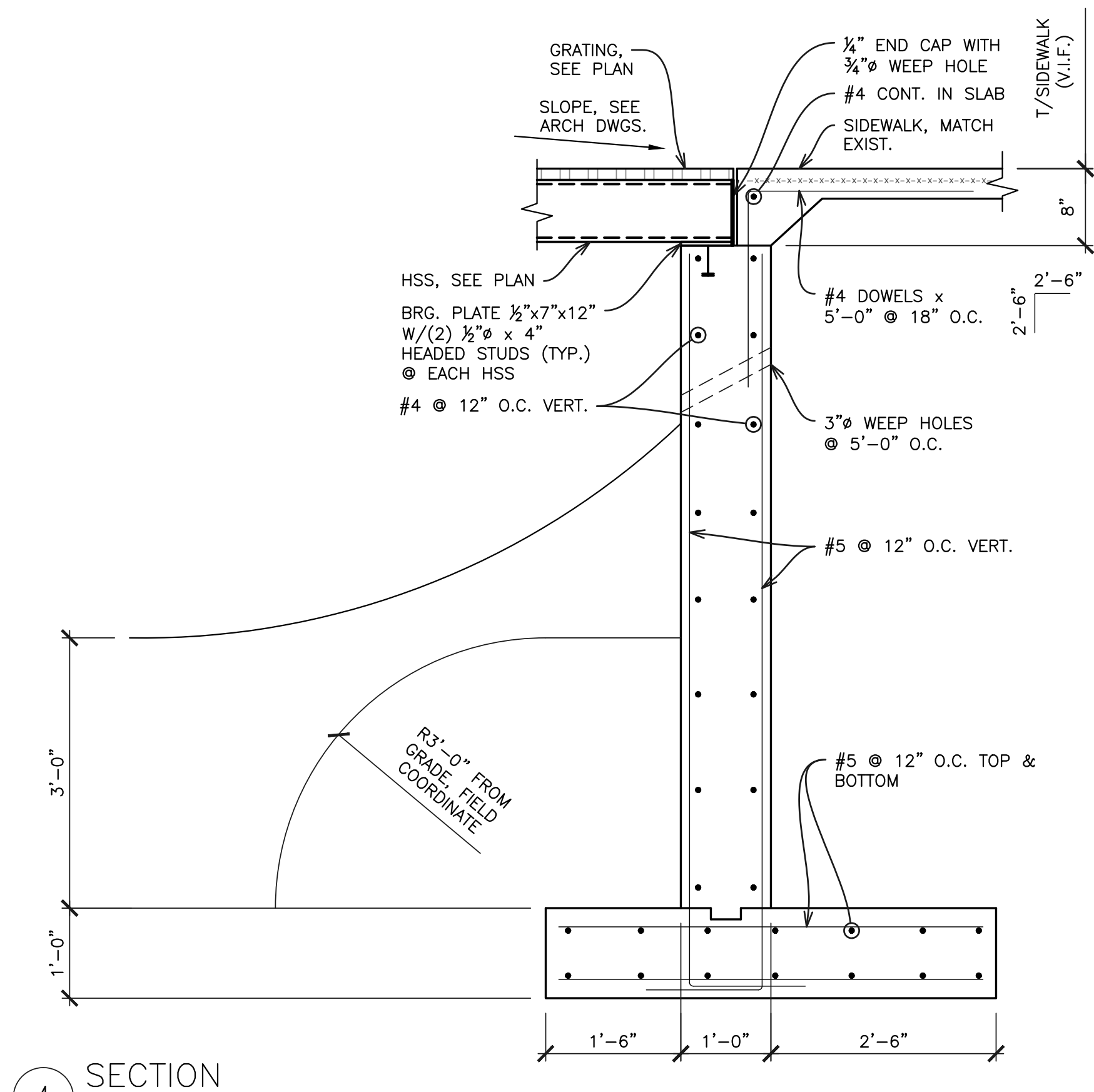
1 BRIDGE PLAN
Scale: 1/4" = 1'-0"

NOTES:
1. DECK D1 = MCNICHOLS MS-WT-1210 DURAGRID FIBERGLASS 1,000" HEIGHT x 1.625" TOP FLANGE WIDTH WIDE T-BAR, 2,000" ON CENTER, 0.375" CLEAR SPACE, MEDIUM GRIT (OR EQUAL), COLOR SELECTION BY OWNER. PROVIDE BOLTED CONNECTION TO SECURE GRATING TO SUPPORTING STRUCTURE.

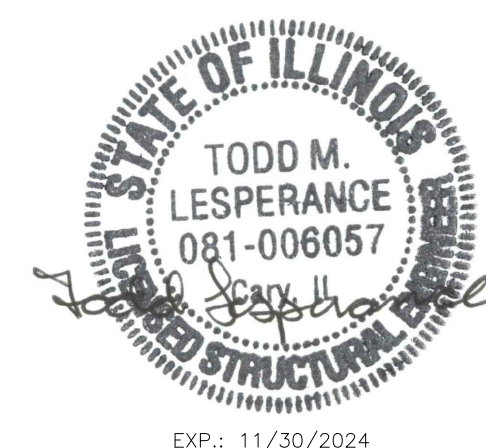


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3 SECTION
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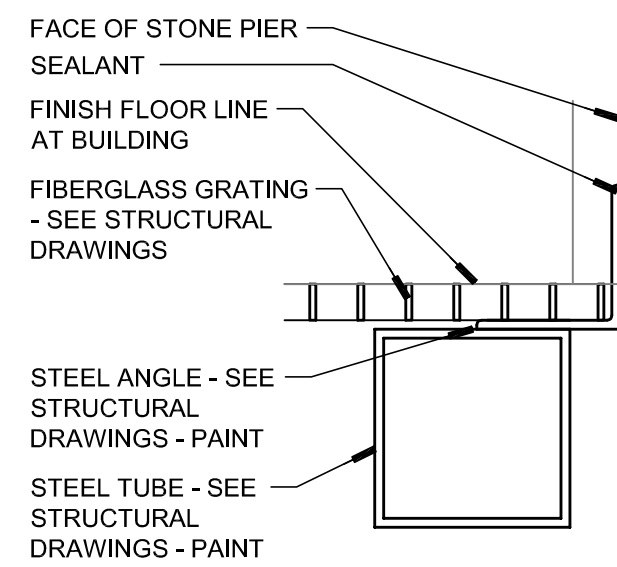
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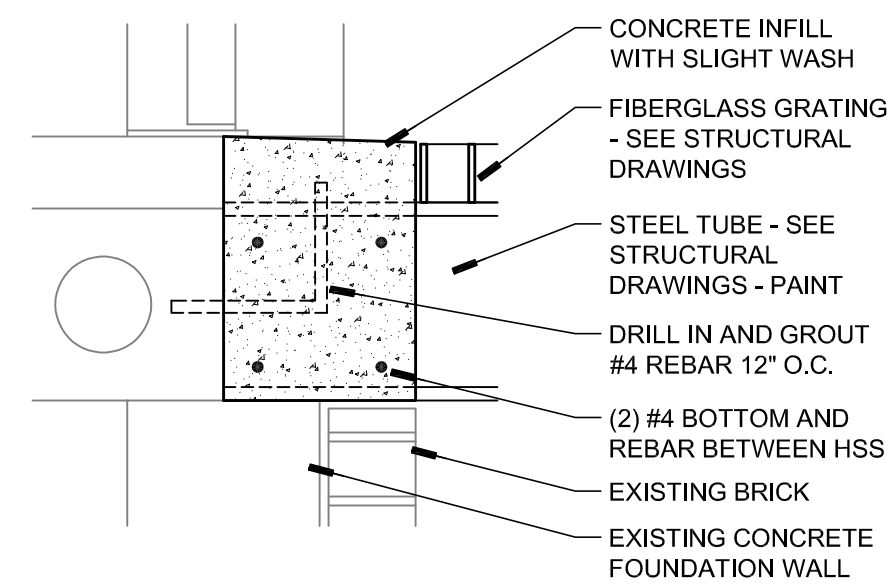
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PROJECT INFORMATION	
Date	November 29, 2023
Rev. Date	
RLJA Proj	2023-072

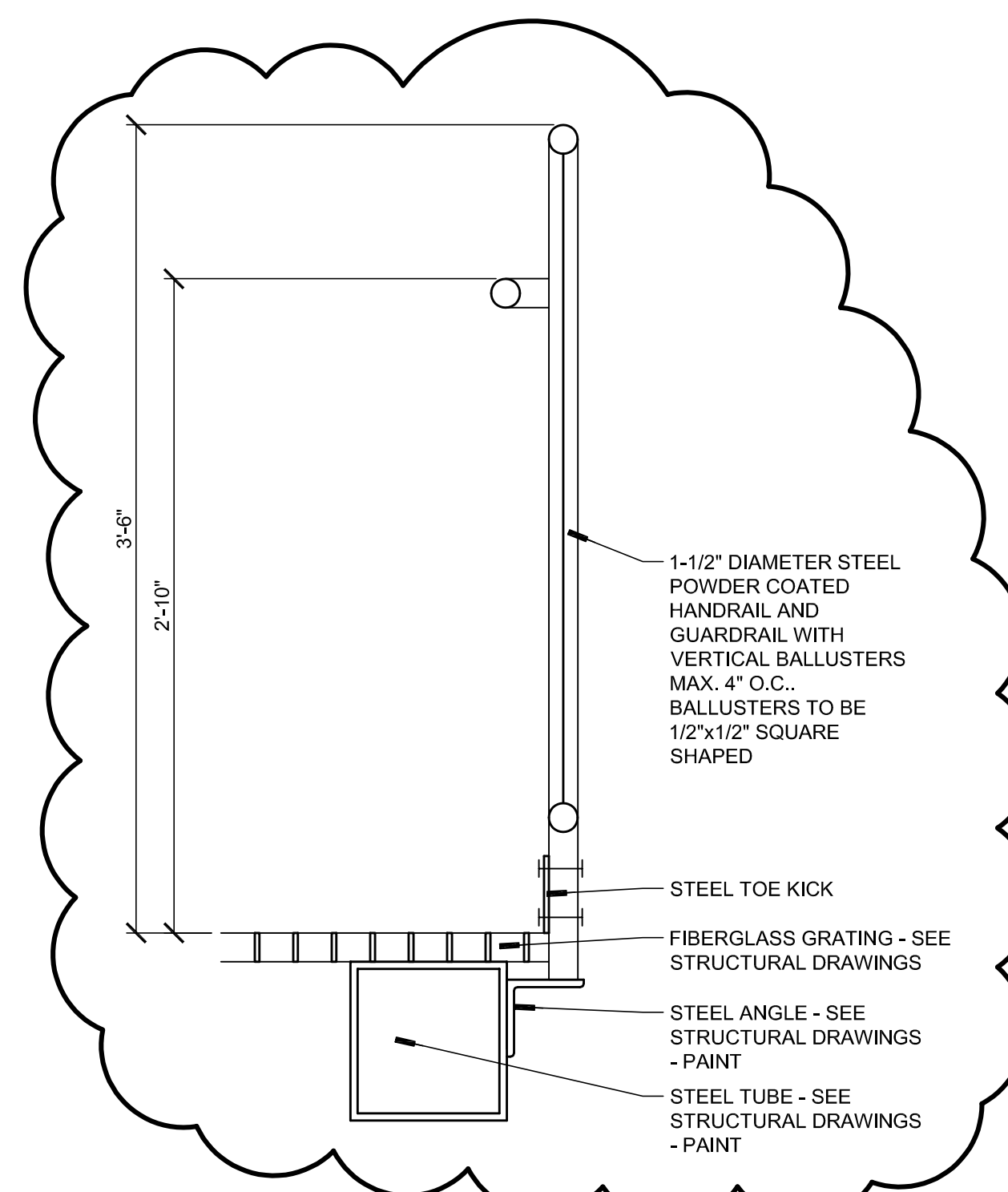
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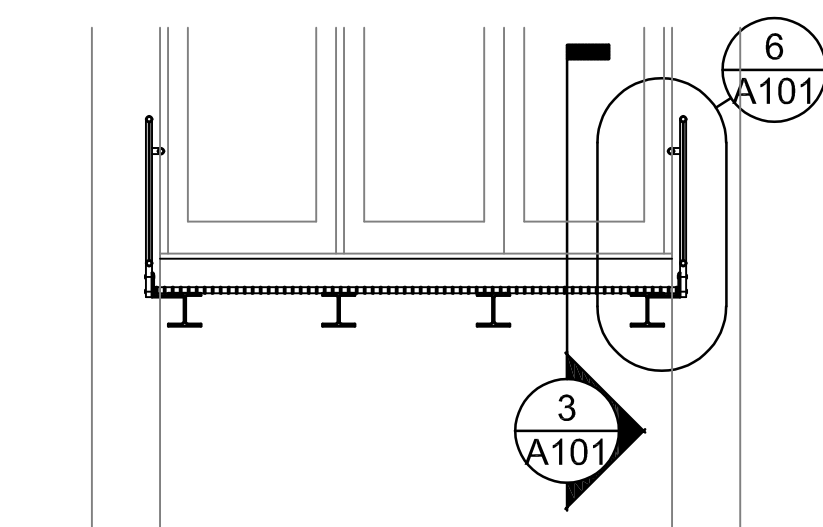
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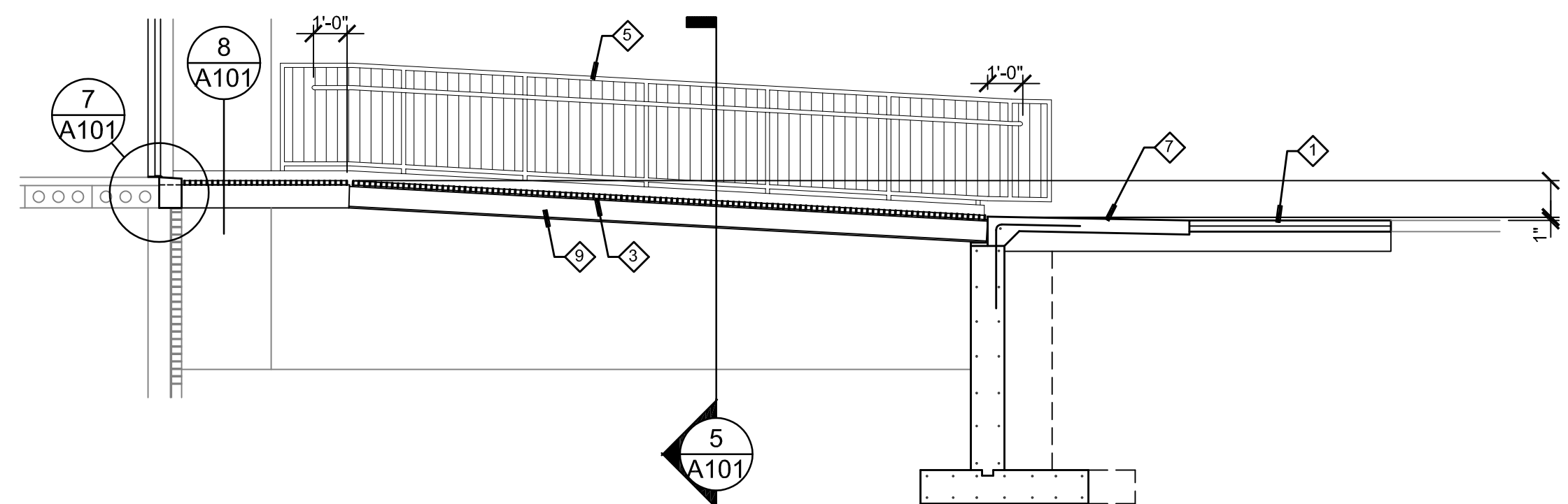
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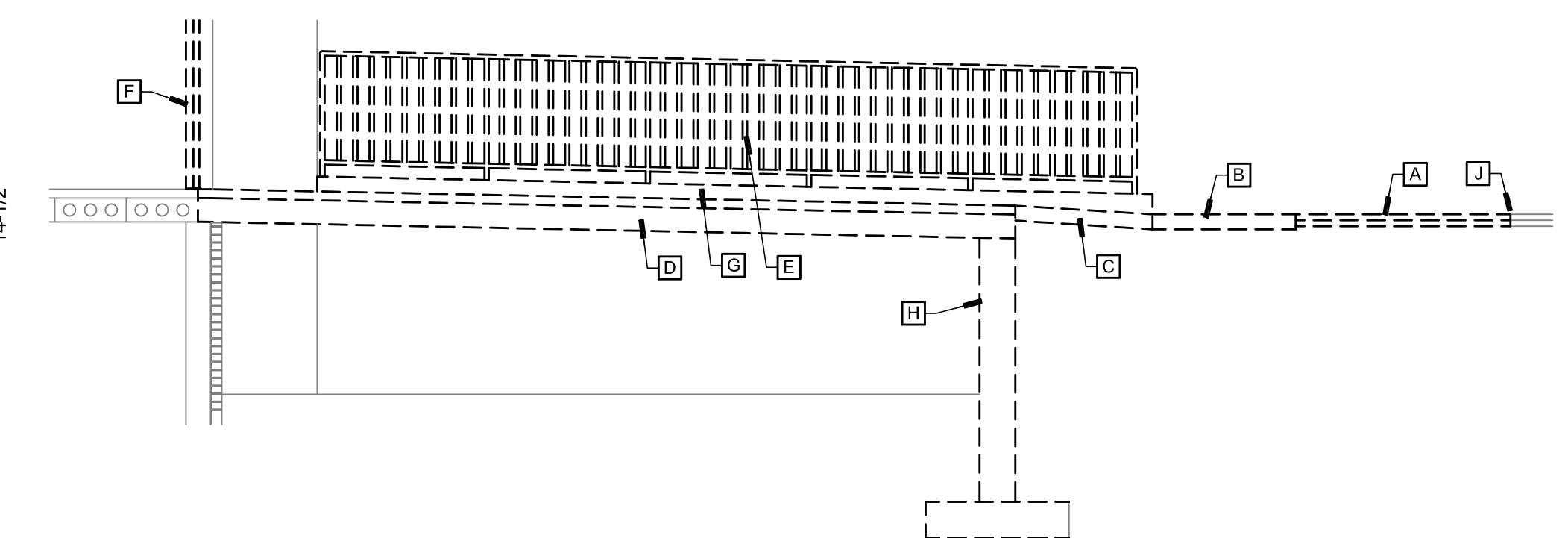
6 DETAIL
SCALE: 1-1/2"=1'-0"



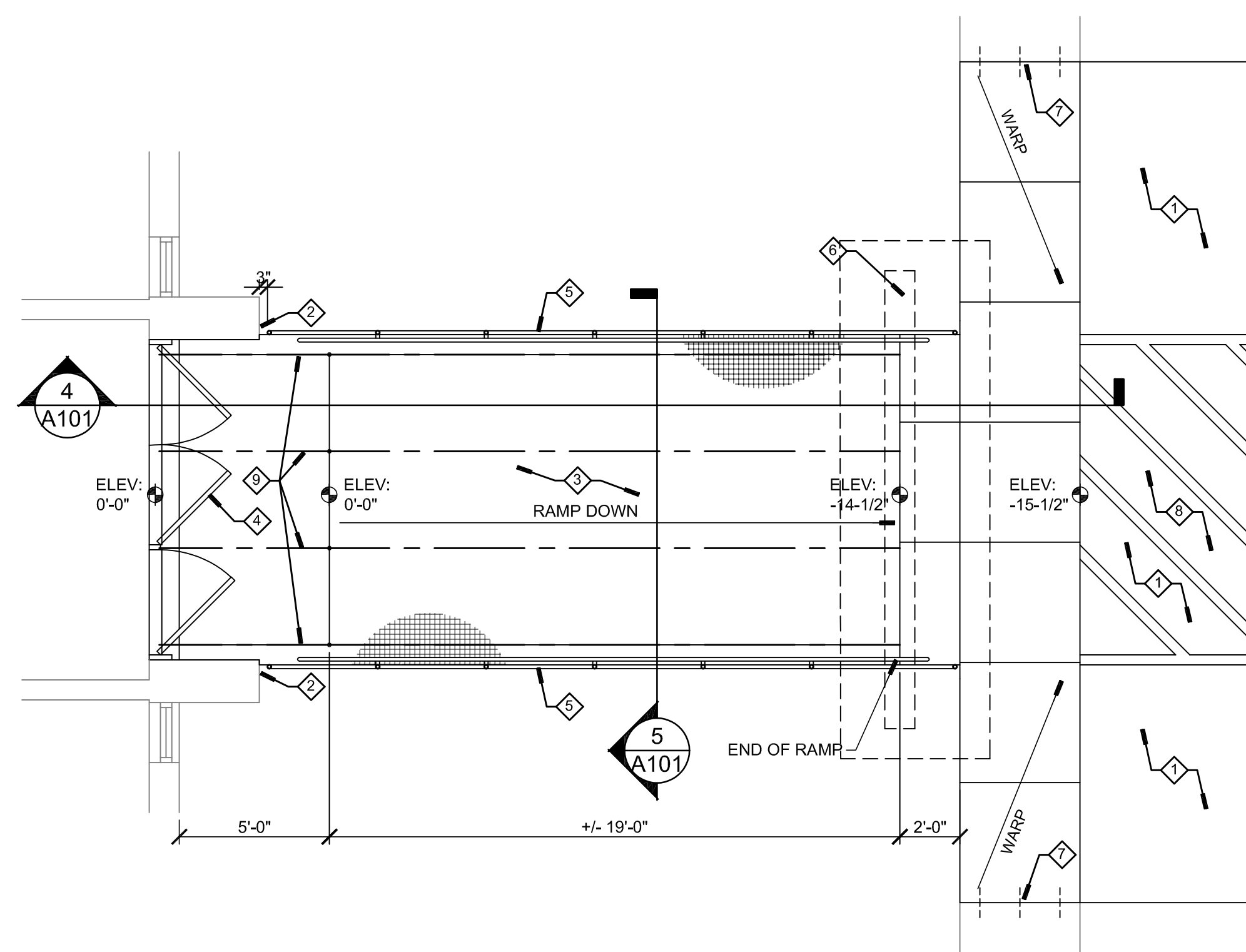
5 REVISED SECTION
SCALE: 1/4"=1'-0"



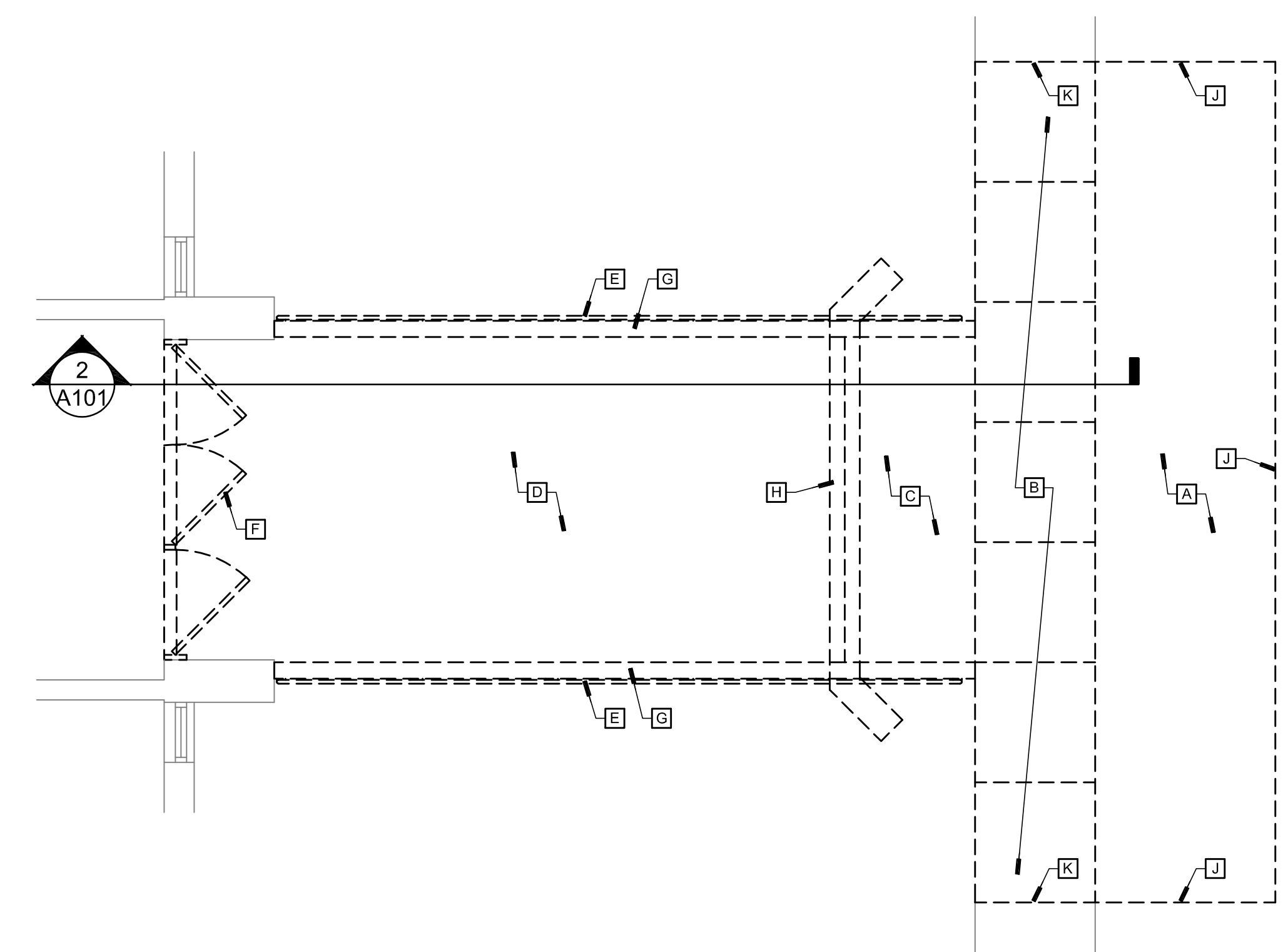
4 REVISED SECTION
SCALE: 1/4"=1'-0"



2 DEMOLITION SECTION
SCALE: 1/4"=1'-0"



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



1 DEMOLITION PLAN
SCALE: 1/4"=1'-0"

- DEMOLITION KEY NOTES**
- A REMOVE ASPHALT, BASE AND EARTH AS REQUIRED TO INSTALL FOUNDATION.
 - B REMOVE SIDEWALK, BASE AND EARTH.
 - C REMOVE SLOPED SIDEWALK, BASE AND EARTH.
 - D REMOVE CONCRETE PLANK AND TOPPING BRIDGE STRUCTURE.
 - E REMOVE RAILING.
 - F REMOVE ENTRANCE SYSTEM FRAMING, DOORS, GLASS, HARDWARE AND SALVAGE FOR REINSTALLATION.
 - G REMOVE CONCRETE CURB.
 - H REMOVE CONCRETE FOUNDATION.
 - I SAWCUT ASPHALT.
 - K SAWCUT CONCRETE SIDEWALK.

- REVISED KEY NOTES**
- ◆ PATCH BACK IN PARKING LOT. PROVIDE 2" BINDER COURSE OVER 2" WEARING COURSE OVER 12" CA6.
 - ◆ PATCH IN STONES ON PIER TO MATCH EXISTING.
 - ◆ FIBERGLASS GRATING OVER STEEL BEAMS BRIDGE STRUCTURE. SEE STRUCTURAL DRAWINGS.
 - ◆ REINSTALL SALVAGED ENTRANCE SYSTEM.
 - ◆ HANDRAIL / GUARDRAIL. SEE DETAIL.
 - ◆ CONCRETE FOUNDATION AND FOOTING. SEE STRUCTURAL DRAWINGS.
 - ◆ 5" CONCRETE SIDEWALK OVER 4" CA6. DOWEL INTO EXISTING SIDEWALK. DRILL DOWELS 6" INTO EXISTING SIDEWALK.
 - ◆ PAINT PAVEMENT MARKINGS TO MATCH EXISTING.
 - ◆ STEEL TUBE. SEE STRUCTURAL DRAWINGS. PAINT.

- GENERAL NOTES**
1. THE DEMOLITION PLAN IS PROVIDED AS AN AID IN PLANNING AND DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY IN FIELD VERIFYING THE EXISTING JOB SITE.
 2. PROVIDE ALL TEMPORARY SHORING AS REQUIRED TO SUPPORT STRUCTURES AND FINISHES TO REMAIN.
 3. ALL AREAS, FINISHES AND ITEMS NOT REQUIRING DEMOLITION MUST BE PROTECTED DURING DEMOLITION AND CONSTRUCTION WORK.
 4. THIS DEMOLITION PLAN IS TO BE USED IN CONJUNCTION WITH THE REST OF THE SHEETS IN THE SET.
 5. ALL ITEMS TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS NOTED OTHERWISE. VERIFY WITH OWNER WHAT ITEMS THEY WANT TO SALVAGE PRIOR TO REMOVING THEM OFF SITE.
 6. CONTRACTOR IS RESPONSIBLE FOR STAKING AND LAYING OUT THE GRADES ON SITE.
 7. ANY DISTURBED GRASS AREAS SHALL BE RESEEDED AND MULCHED. THE OWNER WILL WATER THE RESEEDED AREAS.
 8. CONTRACTOR SHALL PROVIDE A TEMPORARY ENCLOSURE WHILE THE EXISTING ENTRANCE DOORS AND FRAMES ARE REMOVED. ENCLOSURE SHALL BE WATERTIGHT.
 9. CONTRACTOR TO PROVIDE ORANGE SNOW FENCING AROUND THE CONSTRUCTION AREA. CONTRACTOR TO PROVIDE BARRICADES AT THE SIDEWALKS ON EACH SIDE OF THE BRIDGE.

SCOTT R. JOHNSON
01 4871
LICENSED ARCHITECT
STATE OF ILLINOIS
EXPIRES 11-30-2024
11-29-23
DATE

BRIDGE REPLACEMENT PROJECT AT
ORANGEVILLE JUNIOR/SENIOR HIGH SCHOOL FOR
ORANGEVILLE CUSD #203
ORANGEVILLE, ILLINOIS

RICHARD L. JOHNSON
ASSOCIATES | ARCHITECTS

PROJECT INFORMATION		SHEET IDENTIFICATION	
Date	November 29, 2023	PLANS AND DETAILS	SHEET NUMBER
Rev. Date			
Rev. Date			
SHEET NUMBER		A101 OF 1	