# FOUR RIVERS SANITATION AUTHORITY

# COLLECTION SYSTEMS ADMINISTRATION BUILDING SITE IMPROVEMENTS CAPITAL PROJECT #2206

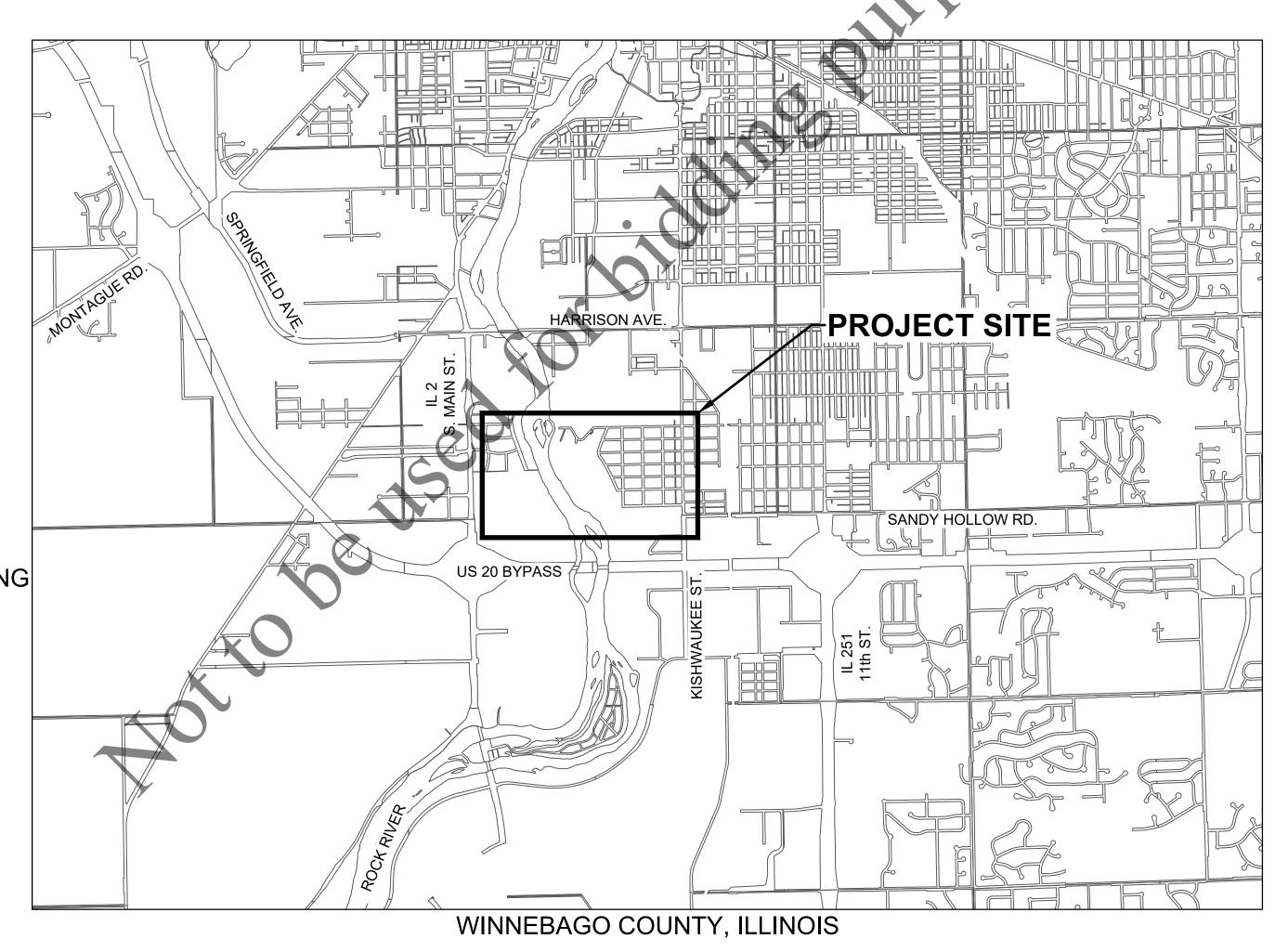
2022

# **BOARD OF TRUSTEES**

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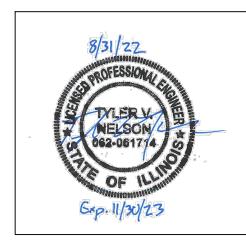
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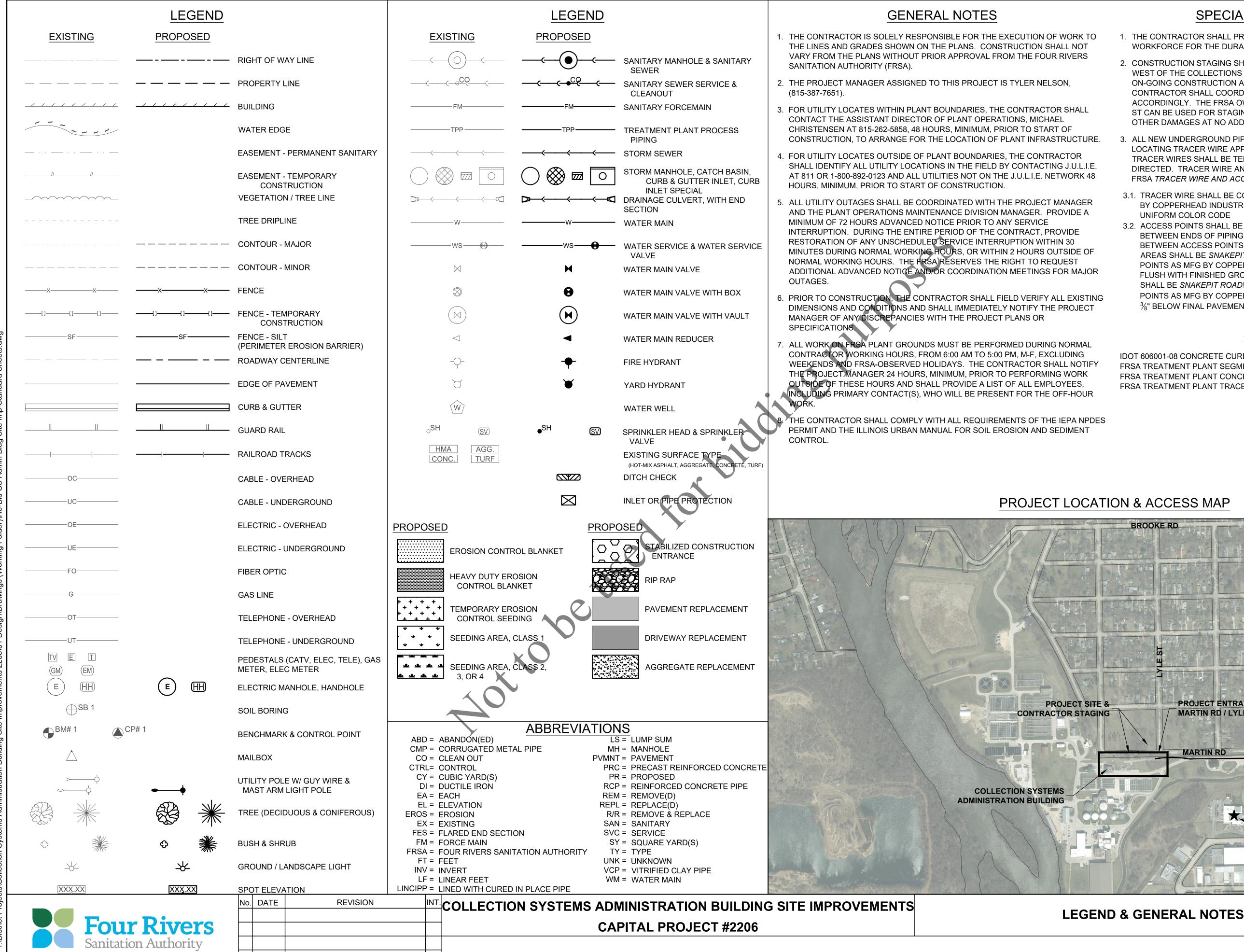
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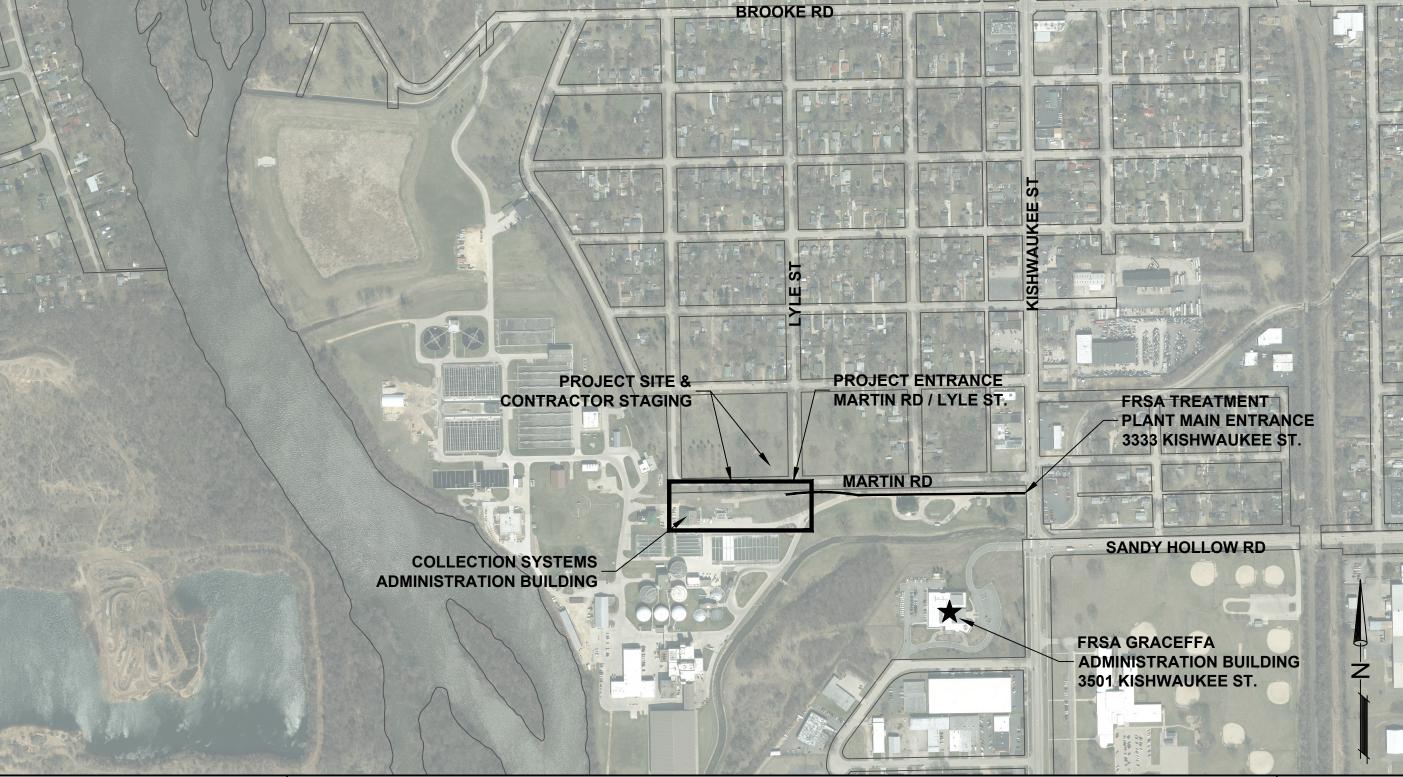
# SPECIAL CONSIDERATIONS

- 1. THE CONTRACTOR SHALL PROVIDE TEMPORARY RESTROOM FACILITIES FOR HIS WORKFORCE FOR THE DURATION OF THIS PROJECT.
- 2. CONSTRUCTION STAGING SHALL BE EXCLUDED FROM THE AREA SOUTH AND WEST OF THE COLLECTIONS SYSTEMS ADMINISTRATION BUILDING DUE TO ON-GOING CONSTRUCTION ACTIVITIES IN AND AROUND THIS BUILDING. THE CONTRACTOR SHALL COORDINATE WITH THE FRSA AND OTHER CONTRACTORS ACCORDINGLY. THE FRSA OWNED PROPERTY NORTHWEST OF MARTIN RD / LYLE ST CAN BE USED FOR STAGING. THE CONTRACTOR SHALL REPAIR ALL TURF & OTHER DAMAGES AT NO ADDITIONAL COST TO THE THE FRSA.
- 3. ALL NEW UNDERGROUND PIPING AND DUCTBANK SHALL BE BURIED WITH LOCATING TRACER WIRE APPROXIMATELY 12 INCHES ABOVE THE TOP OF PIPE. TRACER WIRES SHALL BE TERMINATED AS SHOWN ON THE PLANS OR AS DIRECTED. TRACER WIRE AND ACCESS POINTS SHALL BE IN ACCORDANCE WITH FRSA TRACER WIRE AND ACCESS POINTS DETAIL
- 3.1. TRACER WIRE SHALL BE COPPER-CLAD STEEL HIGH STRENGTH 12 AWG AS MFG BY COPPERHEAD INDUSTRIES AND SHALL BE COLOR CODED PER APWA UNIFORM COLOR CODE
- 3.2. ACCESS POINTS SHALL BE PROVIDED AT EACH END OF NEW PIPING, OR IN BETWEEN ENDS OF PIPING IF REQUIRED. THE MAXIMUM LINEAR DISTANCE BETWEEN ACCESS POINTS SHALL BE 800 FEET. ACCESS POINTS IN NON-PAVED AREAS SHALL BE SNAKEPIT LITE DUTY ADJUSTABLE SINGLE TERMINAL ACCESS POINTS AS MFG BY COPPERHEAD INDUSTRIES, AND SHALL BE INSTALLED FLUSH WITH FINISHED GROUND ELEVATION. ACCESS POINTS IN PAVED AREAS SHALL BE SNAKEPIT ROADWAY SINGLE TERMINAL CAST IRON LID ACCESS POINTS AS MFG BY COPPERHEAD INDUSTRIES, AND SHALL BE INSTALLED 1/4" TO 3/8" BELOW FINAL PAVEMENT ELEVATION.

# **STANDARDS**

IDOT 606001-08 CONCRETE CURB TYPE B FRSA TREATMENT PLANT SEGMENTAL CONCRETE BLOCK WALL DETAIL FRSA TREATMENT PLANT CONCRETE DUCTBANK DETAIL FRSA TREATMENT PLANT TRACER WIRE & ACCESS POINTS DETAIL

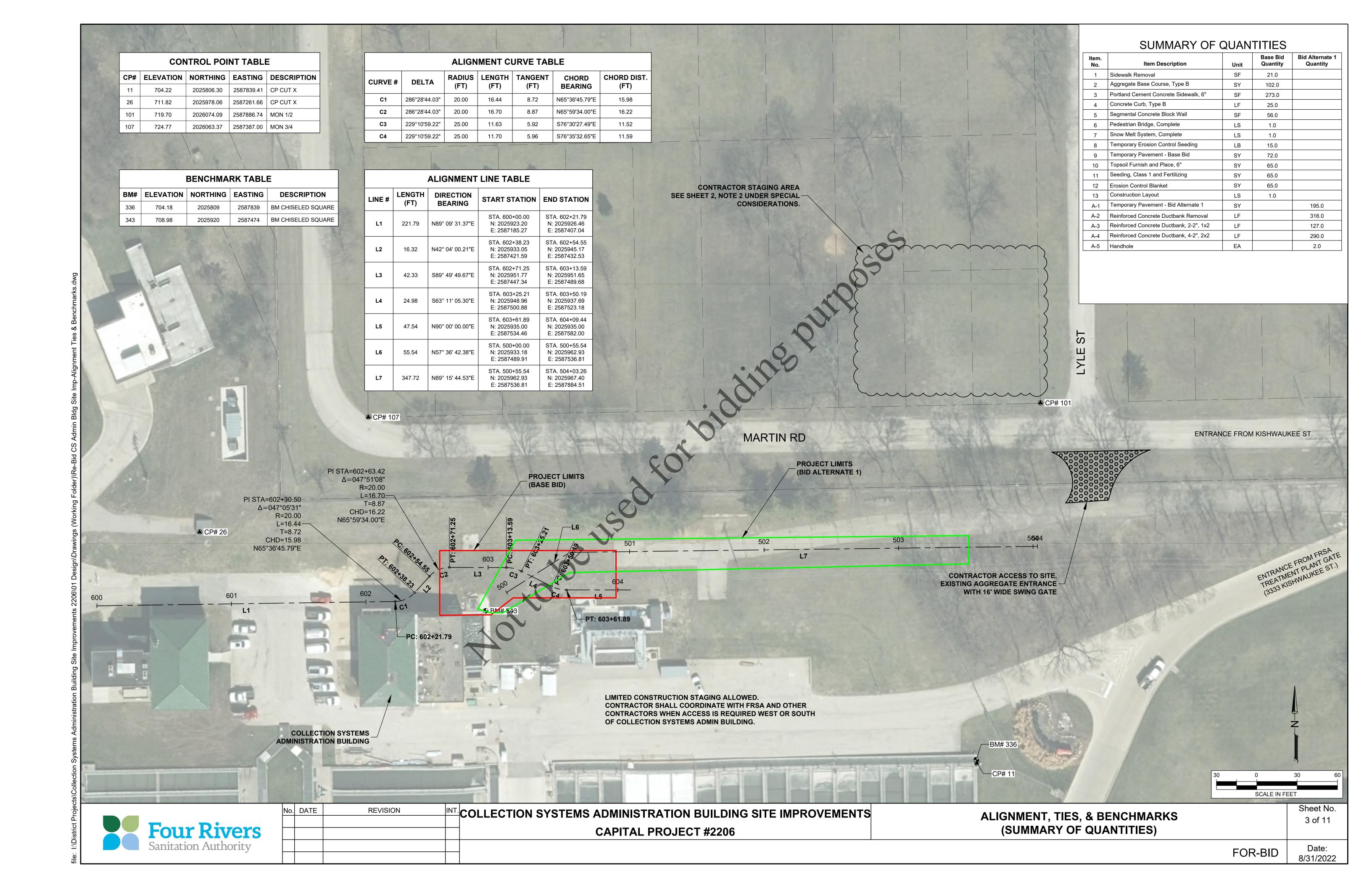
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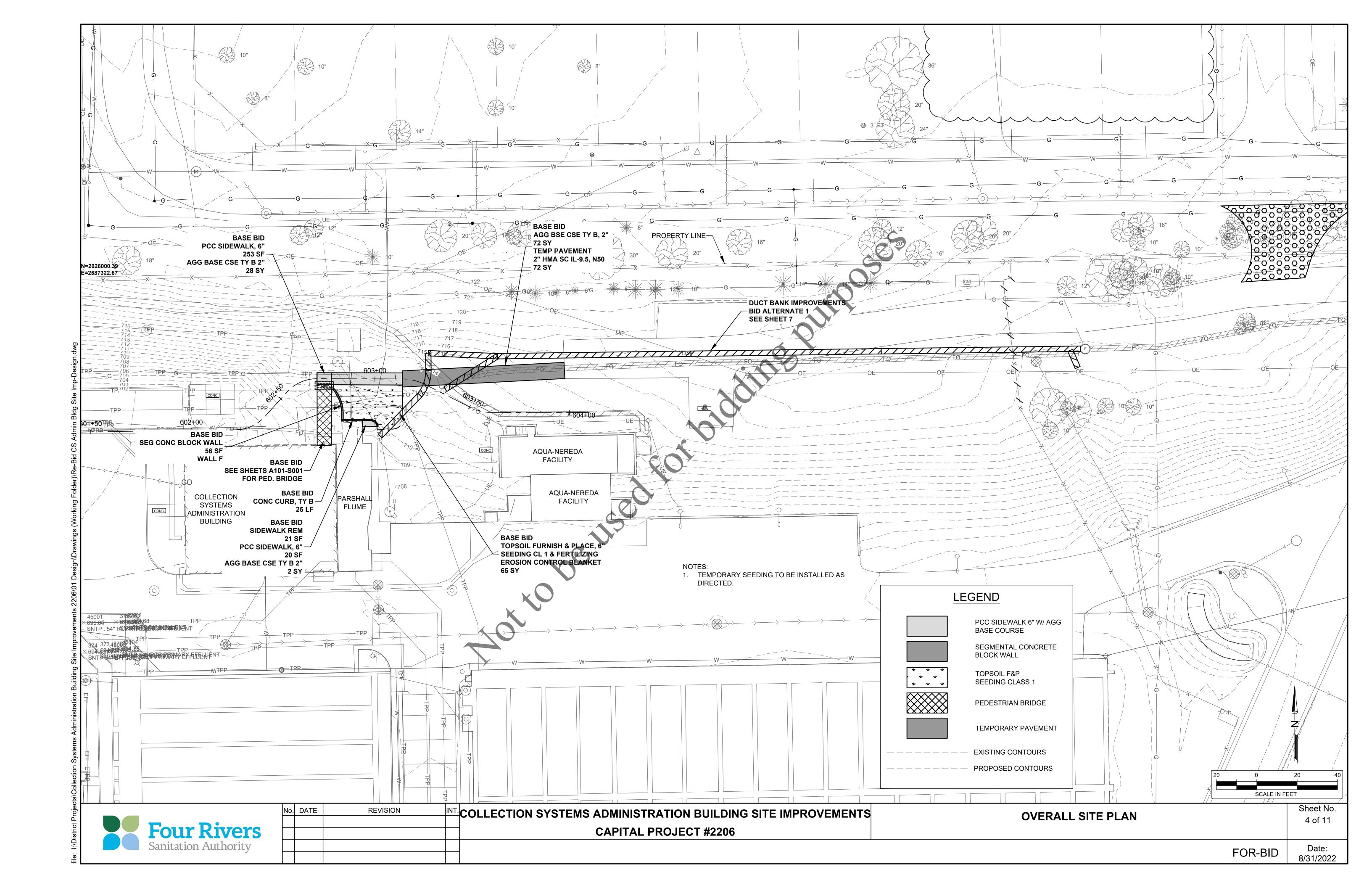


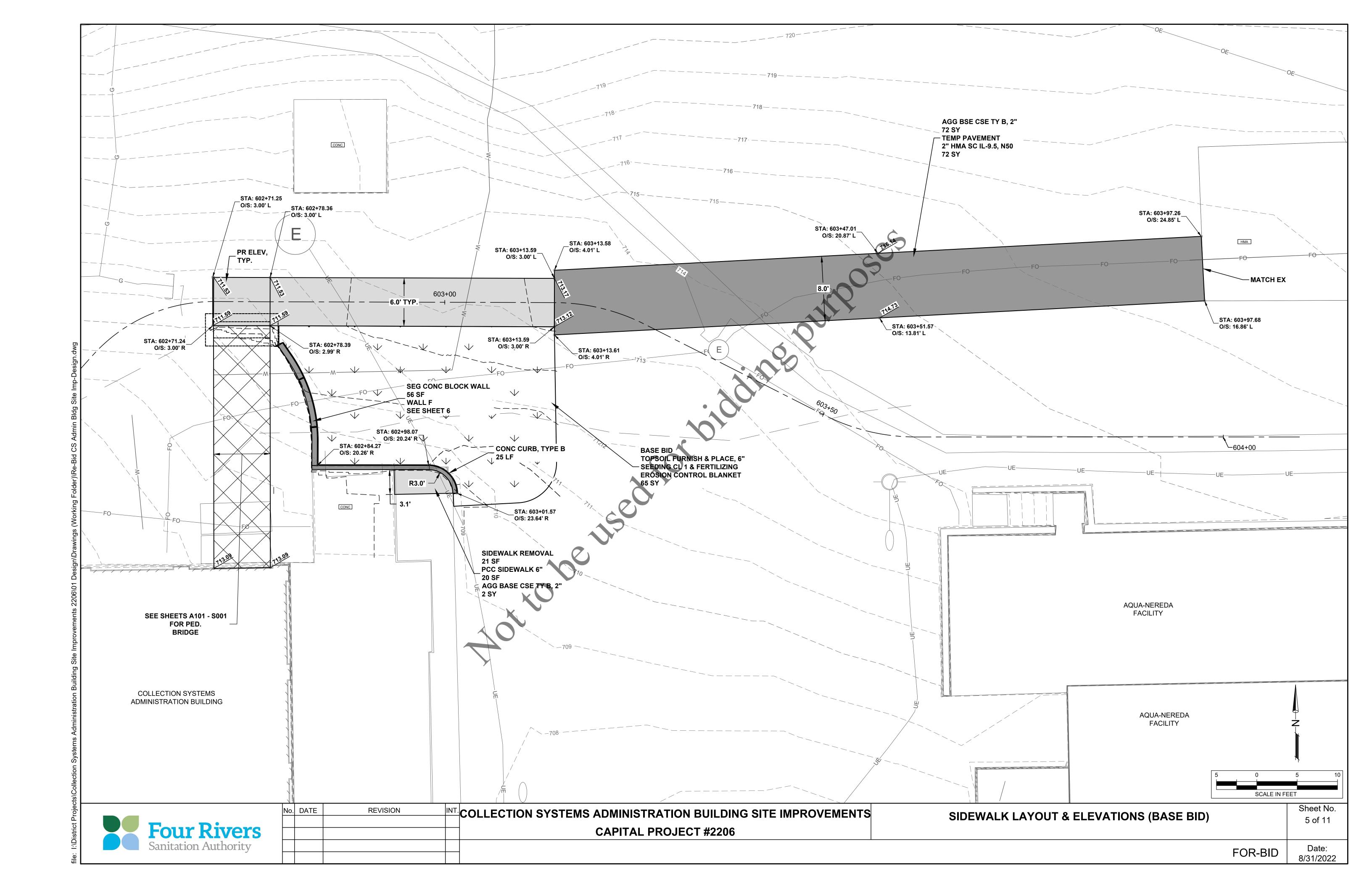
Sheet No. 2 of 11

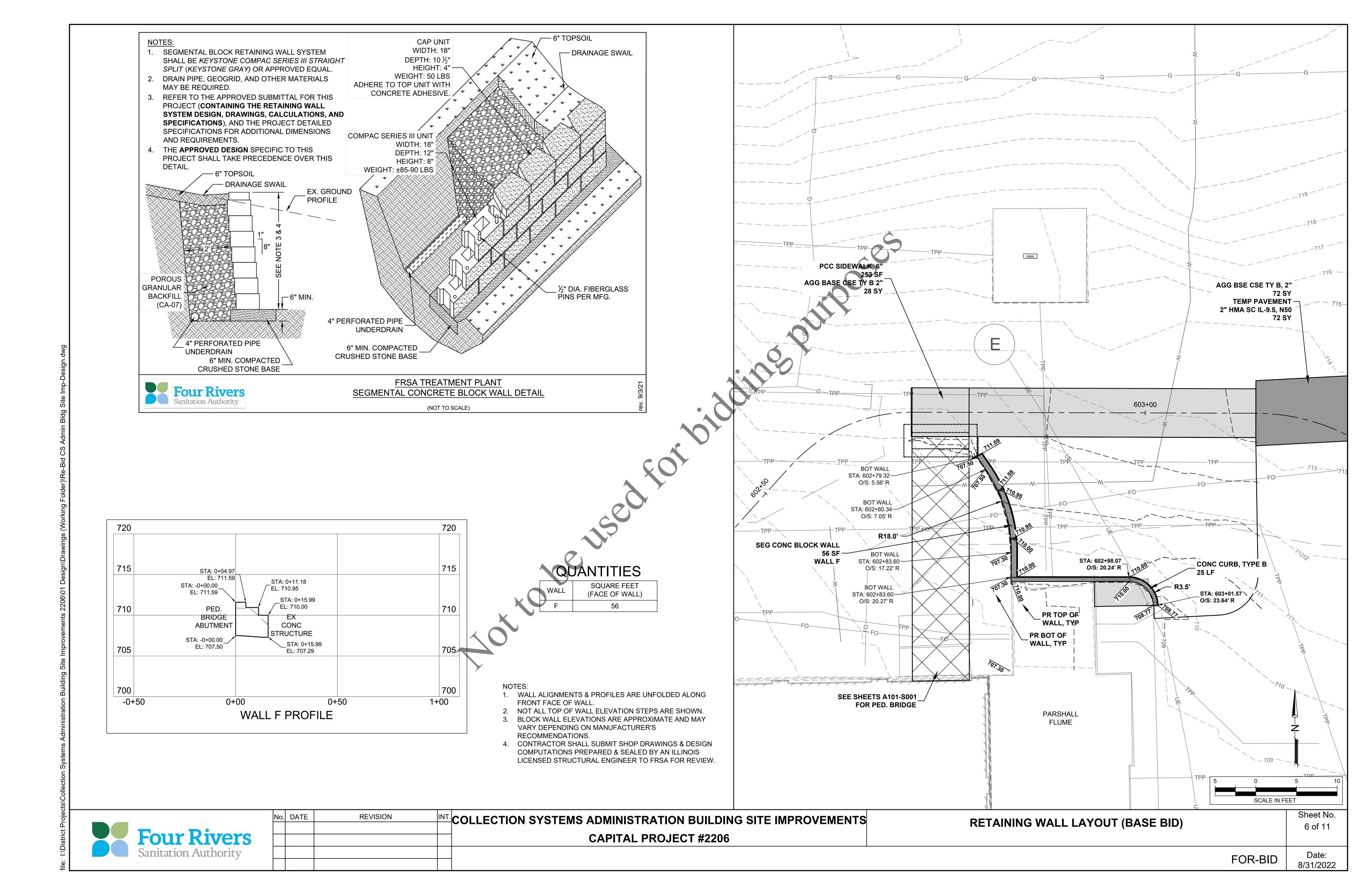
FOR-BID

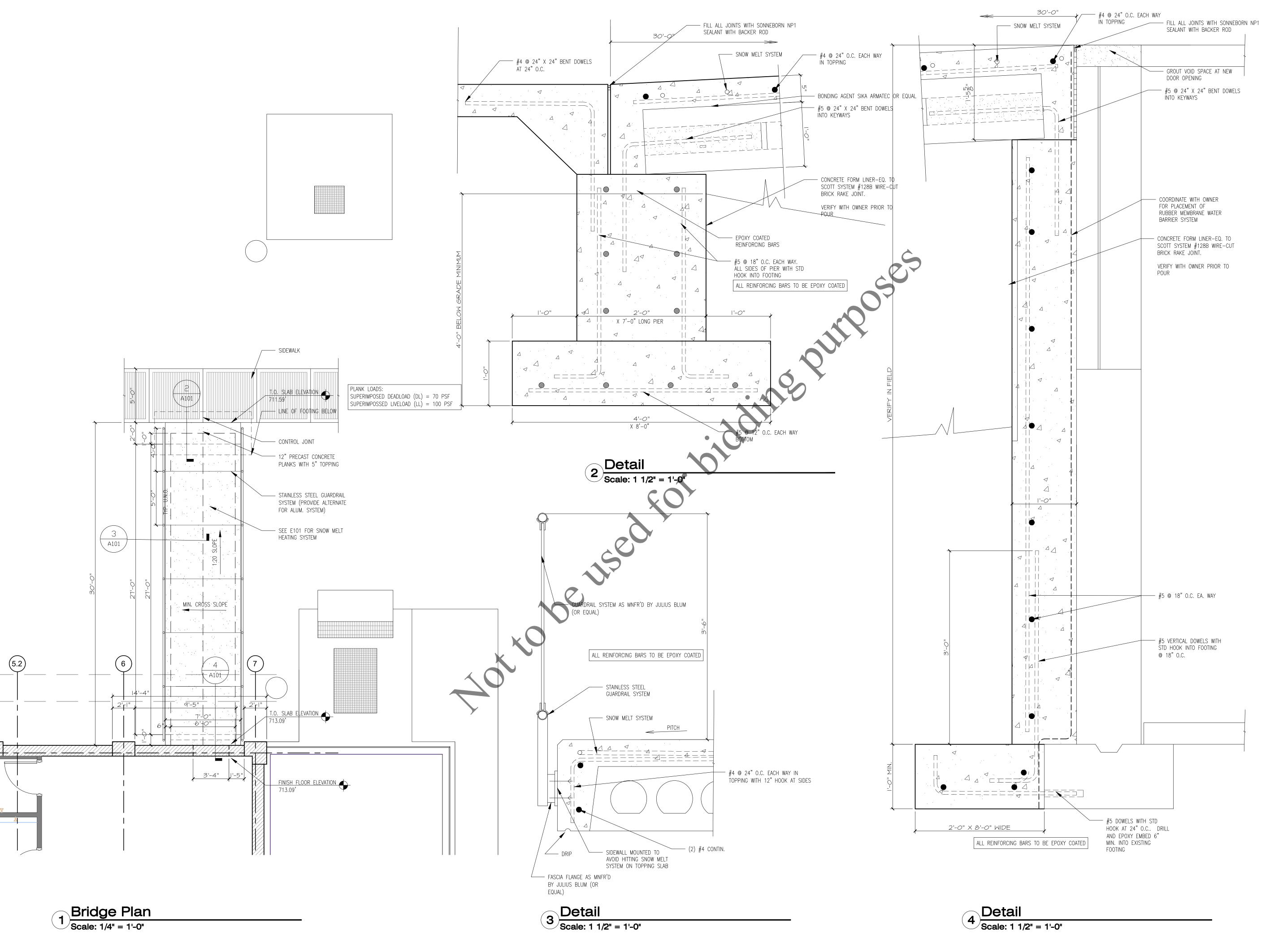
Date: 8/31/2022













# BLAKEMORE

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Collections Systems
Administration
Building Site
Improvements Project

Capital Project No. 2306

for



3501 Kishwaukee Street Rockford, Illinois

THE CONTRACTOR SHALL DETERMINE EXACT DIMENSIONS AND CONDITIONS AT THE SITE PRIOR TO SUBMITTING / BID. THE CONTRACTOR SHALL COORDINATE ALL DRAWINGS WITH ACTUAL FIELD CONDITIONS PRIOR TO PROCEEDING WITH THE WORK AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. THIS DRAWING IS THE PROPERTY OF BLAKEMORE ARCHITECTS AND MAY NOT BE REPRODUCED WITHOUT THE PRIOR WRITTEN PERMISSION OF THE ARCHITECT

NO	. DATE	DESCRIPTIO	
1.	06-16-2021	Initial Layou	
2.	07-16-2021	Progress Revie	
3.	08-10-2021	Issued for Bid	
4.	06-15-2022	Revision	

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BA Project No. 2021-17

Scale

AS NOTED

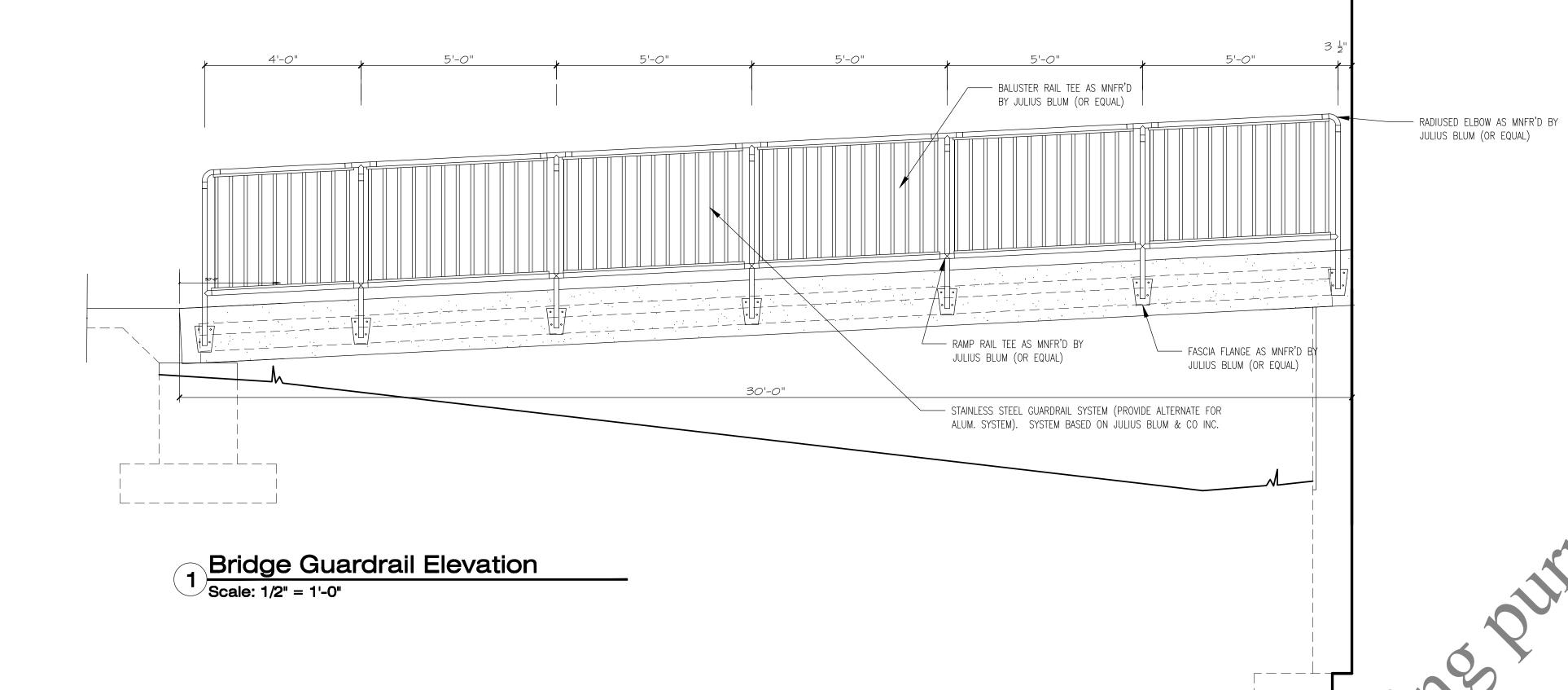
Sheet Title

BRIDGE PLAN AND
DETAILS



Sheet No A101

PROFESSIONAL DESIGN FIRM REGISTRATION # 184-003342



BLAKEMORE

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2021-17

Sheet Title

**GUARDRAIL ELEVATION** 

Ref. North

A102

Sheet No

PROFESSIONAL DESIGN FIRM REGISTRATION # 184-003342

DESIGN LOADS – DESIGN DATA			
Roof Live Load – IBC 1603.1.2	20 PSF		
Roof Snow Load – IBC 1603.1.3			
Ground snow load, $P_g$	30 PSF		
Flat roof snow load, $P_f$	17.5 PSF		
Snow exposure factor, $C_e$	1.0		
Snow load importance factor, I	1.0		
Snow load temperature factor, Ct	1.0		
Wind Load – <i>IBC 1603.1.4</i>			
Basic wind speed, mph	90 MPH		
Wind importance factor, $I$	1.0		
Wind exposure classification (local amend.)	В		
Internal pressure coefficient	+/- 0.18		
MWFRS (IBC 1609.6 Simplified Method) Phorizontal=12.8/8.5 psf, Proof/wind=-15.4/-9.4 psf, Proof/lee=-10.7/-7.2 psf			
Components per IBC Table 1609.6.2.1 (2) - Walls Interior Zone: 10 sq. ft. +5.9/-14.6 psf; 100 sq. ft. +4.7/-13.3 psf End Zone: 10 sq. ft. +5.9/-24.4 psf; 100 sq. ft. +4.7/-15.8 psf Corner Zone: 10 sq. ft. +5.9/-36.8 psf; 100 sq. ft. +4.7/-15.8 psf			
Earthquake Design Data – IBC 1603.1.5			
Seismic use group B			
Spectral response coefficients, SDS and SD1	0.17/0.06		

# **GENERAL NOTES**

Design base shear

Analysis procedure

Site class

# **GOVERNING CODE & DESIGN LOADS**

IBC 2015 per Local Amendments

115 mph/ exposure B-3 Sec Gust (Ultimate Load)

30 PSF (plus snow drifting where applicable)

Note: Seismic does not govern.

The roof system shown on these Drawings has been designed for code specified uniformly distributed roof snow loads, roof dead loads, and non-uniform effect of snow drift (if applicable) and a uniformly distributed loading of 3 psf to account for lighting, small pipes and ducts. In addition, the roof system has been designed for the specific concentrated loads shown or noted on the drawings. Any contractor intending to support equipment, piping, duct work, cranes or other items which will subject the roof system to concentrated loading must submit shop drawings showing weights, proposed support locations and details to BA (Blakemore Architects, Inc) for approval prior to erection. Any contractor who erects equipment without obtaining such approval will be required either to remove it and submit shop drawings or stand the cost of required reinforcement of roof members.

Unless superseded by provisions of the Code listed above, the structural design for this project has been based on the following code or specification, as appropriate, for each

Cast-in-place and precast concrete	ACI 318
Structural Steel	
	Structural Steel Buildings
	(ASD or LRFD)
Joists and Joist Girders	SJI – Standard Specifications
Metal Roof Deck and Steel Form Dec	kSDI – Standard Specifications

# MATERIAL STRENGTH REQUIREMENTS

2200 Assumed Soil Bearing Capacity 1,500 psf Contractor to contract with Soil Testing Engineer once ground is opened and test bearing capacity. Letter from testing engineer to be forwarded to Architect and Building Department once completed.

03200 Concrete Reinforcement Deformed Bars and Smooth Dowels: ASTM A615 Grade 60 Welded Wire Fabric: Plain ASTM A185, Deformed ASTM A497

# 03300 Cast-in-Place Concrete

Structural Element	<u>f'c</u>
Footings	3,500 psi
Lean Mix	500 psi
All other	4,000 psi

Welding Electrodes: E70XX

# Structural Steel

Rolled Shapes: ASTM A36; ASTM A572, Grade 50 if noted (50), ASTM A992 for W & WT Shapes. Plates and Bars: ASTM A36; ASTM A572, Grade 50 if noted (50). Pipes: ASTM A53 Type E Grade B HSS: ASTM A500 Grade B Structural Bolts: ASTM A325 unless noted as ASTM A490 on drawings Anchor Rods: ASTM F1554 (Fy=36ksi)

### GENERAL REQUIREMENTS

- 1. Use of these drawings for the construction of this project carries with such use implicit acceptance of the requirements and obligations stated in the following paragraphs.
- 2. The Contractor shall be solely responsible for supervising and directing the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the contract. The Contractor shall be responsible for inspection of portions of Work already performed under this contract to determine that such portions are in proper condition to receive subsequent Work.
- 3. The Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Contract. The Contractor shall give notices and comply with all applicable laws, ordinances, rules, regulations and lawful orders of public authorities especially OSHA bearing on safety of persons or property or their protection from damage, injury or loss. The Contractor shall not load or permit any part of the construction site or construction on the site to be loaded so as to endanger its safety.
- 4. In the event the Contractor encounters on the site material reasonably believed to be asbestos or polychlorinated biphenyl (PCB) or other known hazardous material which has not been rendered harmless, the Contractor shall immediately stop Work in the area affected and report the condition to the Owner in writing. The Work in the affected area shall not thereafter be resumed except by written agreement of the Owner and Contractor if in fact the material is hazardous and has not been rendered harmless. The Work in the affected area shall be resumed in the absence of asbestos or polychlorinated biphenyl. (PCB), or other known hazardous material, or when it has been rendered harmless by written agreement of the Owner and Contractor.
- 5. In no case shall structural alterations or work affecting a structural member be made, unless approved by BA in writing.
- 6. Contractor shall field verify all dimensions and existing conditions and notify BA of any discrepancies before proceeding with the Work.
- 7. Submittals shall be sent to BA based on the following procedure:

Shop Drawings – Submit one set of reproducible's and one set of prints for shop drawings specifically requested to be submitted in subsequent paragraphs of these notes for the various materials to MBA after review and approval by the Contractor. The reproducible will be returned.

D

13,220 lbs.

Equiv. Lat. Force ASCE7, 9.5.5

- a) review submittal information solely for conformance with the design concept b) approve or take other appropriate action
- c) stamp and return submittals to Contractor for appropriate distribution or resubmittal.

the MBA Proposal to our client. The BA review does not involve or include:

The BA review of submittals will be made for the limited purposes and are subject to the limitations and disclaimers set forth in the Contract Documents, these General Notes, and

- a) review of submittal dimensions and quantities.
- b) acceptance or assumption of any responsibility to review, analyze or evaluate any submittals including shop drawings provided to BA, or acceptance or assumption of any part of Contractor's responsibilities which include the Contractor's responsibilities to review and approve of submittals, whether or not the BA review was made prior to the review and approval of the Contractor.
- c) review, evaluation or approval of project safety precautions or safety training.
- d) review, evaluation or approval of construction means, methods, techniques, procedures or sequences.

BA approval of a specific item does not include or indicate or constitute approval of a group or an assembly of which the item is a component.

The Contractor must notify BA, in writing, relative to any deviation from the Contract Documents, which appears in the shop drawings. Approval of the submittal containing such deviation does not constitute approval of the deviation. Approval or rejection of the deviation will only be provided by BA in a separate written communication to the

In the event that BA reviews submittals (as a courtesy to the Contractor to reduce the time prior to the start of fabrication) such submittals having not first been reviewed and approved by the Contractor, such BA review shall not relieve the Contractor of his responsibility to perform review and approve all such submittals, nor will it create responsibility or liability on the part of BA as to the contents, accuracy or completeness of such shop drawings except as may be specifically described in the Contract Documents, these General Notes, and the Submittal Transmittal. Contractor is solely responsible for review and approval of shop drawings and other submittals, and Contractor is solely responsible for all requirements of the work of the contractor as <u>provided for in the Contract Documents</u> or on the agreement with the Owner.

In the event that the Contractor chooses, at its own discretion, to create shop drawings for use as erection drawings by using BA prepared Drawings or electronic files, Contractor does so at its own risk. No guarantee whatsoever is given by BA that BA Drawings are suitable for such use.

8. The Contractor shall defend and indemnify and hold Blakemore Architects. ("BA") their agents and employees, harmless from all costs, damages, claims, actions and proceedings (including legal fees associated with threatened or actual lawsuits mediations and arbitrations) of whatever nature arising out of the performance of the Work, and any modifications thereto, under the terms and conditions of the Contract Documents or arising out of, but not limited to, collapse, failure, shifting, leaning, misalignment, twisting, bending, or falling of the Work or any portion of the work whether or not said occurrence is a result of negligence on the part of the Contractor, so that the indemnity against said claims is in the nature of a strict obligation with the one exception of proved negligence (in a court of competent jurisdiction) that BA committed a design error which caused the collapse, failure, shifting, leaning, misalignment, twisting, bending or falling of the Work. Owner and Contractor acknowledge that BA has no responsibility for the manner and means of construction, including bracing, and that BA may rely on this paragraph. The indemnified claims include, without limitation, any damage to tangible property or loss of use thereof and any injury to persons including sickness, disease and death, and any fines, penalties, wages lost or cost of corrective measures sustained as a result of the Contractor's failure to comply with O.S.H.A. or any other applicable rules or regulations.

- 9. The Contractor shall conform to all applicable local, state and federal regulations.
- 10. The General Notes and Drawings contain performance standards, tolerances and material specification. It is the responsibility of the Contractor to provide a constructed product in conformance with these criteria. If some portion of the constructed product is not in compliance with these criteria, the Contractor is responsible to repair or remove and replace the faulty construction at no cost to the Owner. The proposed repair is subject to the written approval of the Engineer and the Owner and must restore the constructed product to perform its intended purpose.
- 11. BA is the Project Structural Engineer of Record. Unless an activity or duty is specifically identified as being performed by the Project Structural Engineer of Record in Subpart R, it will not be performed by BA. It will be performed by others. The only exception to this is the design of bottom chord stability plates for joists adjacent to columns.
- 12. BA will analyze repairs, replacements or field modifications to anchor rods as required by OSHA subpart R. However, requests for these assessments must be initiated by the "Controlling Contractor" or the "Steel Erector", not BA.

# 02200 EARTHWORK

- A. Conform to the following:
  - 1. All local, state and federal codes, ordinances and regulations including OSHA

# regulations.

B. Use the following:

### 1. Soil Material (Definitions)

- a) Satisfactory materials are those conforming to ASTM D2487 groups.
- GW, GP, GM, GC, SW, SP, SM, SC and CL. b) Unsatisfactory materials are:
- ASTM D2487 groups ML, OL, CH, MH, OH, PT. Cobbles and rock fragments over 3" maximum dimension
- Frozen material Vegetation, roots, wood, cinders, trash Hazardous materials

# 2. Fill use and required compaction.

er	<u>Type</u> Slab Base Course	Material Crushed limestone conforming to Traffic Bond consistency pass	<u>Size</u> 100% pass 3/4" sieve and 7-10% 200 sieve	Use Base course under slabs on grade and pavements	Compaction 95% ASTM D1557
	Select	Coarse grained soil	100% pass 1/2" sieve and less than 10% pass 200 sieve	Under slab base course or under footings	95% ASTM D1557
	Stone	Well graded washed crushed stone or gravel	100% pass 1" sieve less than 3% pass 200 sieve	Backfill against walls	80% ASTM D4253 D4254
	General	Satisfactory soil except GP	100% pass 3" sieve	All other fill use	90% ASTM D1557

## C. Contractor shall:

- 1. Notify Owner if any of the following are encountered:
- Hazardous materials (Also stop work in area) Subsurface conditions different than portrayed in geotechnical report
- Underground structures or foundations.
- 2. Excavate all materials encountered except bedrock defined as a natural material that cannot be removed with a power excavator having a breakout force of 80,000 lbs. for bucket and stick combined.
- 3. Grade perimeter of excavation to drain water away and provide means to remove water that enters excavation.
- 4. Protect bottom of excavations from freezing.
- 5. Fill over-excavated areas with select fill or lean mix concrete at direction of
- Geotechnical Engineer. 6. Proof roll areas to receive fill using rubber tired trucks or earth moving equipment
- having an axle load equivalent to that of a fully loaded five cubic yard dump truck.
- 7. Place fill in 8" uncompacted lifts.
- 8. Do not place fill over frozen soil or on surface with snow, ice or standing wa
- 9. Filling against walls: a) No construction equipment may operate closer to a wall than a distance the height of the wall unless the wall is properly braced to accommod
- additional earth pressure forces from the equipment. b) Do not backfill against concrete walls until the concrete has attaine specified 28 day unless the wall is braced. Backfill building foundation walls in
- a balanced condition to eliminate tipping. c) Design, installation and maintenance of any temporary wall bracing system is solely the responsibility of the Contractor for a) and c) above

# 03200 CONCRETE REINFORCEMENT

- A. Conform to the latest edition of the following:
  - 1. CRSI "Manual of Standard Practice" and CRSI "Placing Reinforcing Bars". 2. Applicable requirements of ACI 301, ACI 315 and ACI 318 and Section 3 of ANSI A10.9.

# B. Use the following materials:

- 1. Deformed bars ASTM A615 Grade 60.
- 2. Wire fabric: Plain ASTM A185, deformed ASTM A497. 3. Smooth dowels: ASTM A615 Grade 60.

d) Compact backfill using hand operated equipmer

- Submit shop drawings for approval by MBA. Cold form rebars with bends to conform to ACI 315.
- 3. Accurately place reinforcement per ACI 301 and approved shop drawings. Provide Class "B" lap splices in all rebar splices in walls, piers, columns, beams
- 5. Unless shown otherwise on Drawings, provide the following minimum clear cover Concrete cast against and permanently exposed to earth
  - Concrete exposed to earth or weather 3/4" 1-1/2" Beams, columns

# 03300 CAST-IN-PLACE CONCRETE

# A. Conform to the latest edition of the following:

- 1. ACI 117 "Standard Specifications for Tolerances for Concrete Construction and
- 2. ACI 301 Specification for Structural Concrete for Buildings.
- 3. ACI 302.1R Guide for Concrete Floor and Slab Construction. 4. ACI 304R "Guide for Measuring, Mixing. Transporting and Placing Concrete".
- 5. ACI 305R "Hot Weather Concreting".
- 6. ACI 306.1 Standard Specification for Cold Weather Concreting.
- 7. ACI 318 Building Code Requirements for Reinforced Concrete 8. ANSI A10.9 American National Standard for Construction and Demolition
- 9. ASTM C31 Standard Method of Making and Curing Concrete Test Specimens in
- 10. ASTM C94 Standard Specification for Ready Mixed Concrete.

# B. Use the following materials.

- 1. Water: Clean, potable.
- 2. Portland Cement ASTM C150 Type I. Blast furnace slag cement is not permitted. 3. Fine and Coarse Aggregate: ASTM C33 except as noted subsequently max. size aggregate for conrete to be placed in forms to conform to ACI 318, Sect. 3.3.
- 4. Fly Ash: ASTM C618 Type F or C. 3% max. loss on ignition. 5. Air Entraining Admixture: ASTM C260. In-place air entrained concrete shall have 5-7% air. Use for all concrete exposed to freeze thaw conditions including during the construction phase as well as in service.
- 6. Concrete slumps shall be as follows with tolerance plus or minus1" All Concrete.
- 7. Concrete water to cement ratio shall not exceed the following: All concrete.

# 03300 CAST-IN-PLACE CONCRETE

- 8. Chemical Admixtures: At producer's option for structural concrete only. Not permitted with slabs-on-ground or pavements.
  - Limited to the following: a. Water reducing
  - b. Retarding
  - c. Accelerating d. Water reducing & retarding
  - e. Water reducing & accelerating f. Water reducing high range
  - g. Water reducing highrange & retarding
- C. Contractor shall:
- 1. Submit concrete mix design for review.
- 2. Place concrete per ACI 302 using appropriate placing procedures. Thoroughly
- consolidate concrete using suitable means. Use experienced finishers. 3. Place and cure concrete in hot weather per ACI 305.
- 4. Place and cure concrete in cold weather per ACI 306.
- 5. Use air entrained concrete for all concrete exposed to freezing and thawing and/or required to be watertight. 6. Arrange for cylinders to be made for test per ASTM C31. One test consists of four

cylinders. Make one test per each 100 c.y. of concrete placed or fraction thereof

# 03600 GROUT - BUILDING STRUCTURES

### A. Conform to the following

ASTM C1107.

# B. Use the following materials:

- 1. Dry Non-shrink Hydraulic Cementitious Grout. ASTM C1107 Grade C, premixed, packaged, non-metallic. Minimum 28 day compressive strength is 5000 psi per ASTM C109.
- 2. Water: potable.

# C. Contractor shall:

- 1. Store and maintain packaged materials clean and dry and protected from
- dampness, freezing and foreign materials.
  Maintain grout at a minimum 50 degrees F. and maximum 90 degrees F. prior to, during and 48 hours after completion of grout work.
  Saturate surface with clean water 24 hours prior to grouting operations. Remove
- any free standing water on surface and in anchor rod holes prior to grouting
  4. Mix packaged materials in accordance with manufacturer's printed instruction.
- 5. Place grout under base and bearing plates in accordance with manufacturer's printed instructions completely filling all voids. Do not vibrate grout. Bevel
  - Complete grout installation prior to installation of wall sheeting, roof sheeting or supported floors.

- 1. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- 2. PRIOR TO SUBMITTALTO ARCHITECT/ ENGINEER. THE GENERAL CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS AND MAKE ANY CORRECTIONS REQUIRED. THE GENERAL CONTRACTOR SHALL STAMP AND SIGN THE DRAWINGS THAT HE HAS REVIEWED THEM.
- 3. SHOP DRAWINGS PREPARED BY THE SUBCONTRACTORS, SUPPLIERS, ETC., SHALL BE REVIEWED BY THE ARCHITECT FOR CONFORMANCE WITH THE DESIGN CONCEPT ONLY.
- 4. SHOP DRAWINGS SHALL BE FURNISHED FOR ALL STRUCTURAL DESIGN COMPONENTS. ALL SHOP SUBMITTALS TO BE SENT VIA EMAIL IN PDF FORMAT. CONTRACTOR SHALL ALLOW IN THE SCHEDULE 2 WEEKS (10 WORKING DAYS) FOR REVIEW OF ALL SHOP DRAWING DOCUMENTS.



# BLAKEMORE

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Collections Systems Administration **Building Site** Improvements Project

Capital Project No. 2306



# 3501 Kishwaukee Street Rockford, Illinois

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2021-17 BA Project No.

Scale

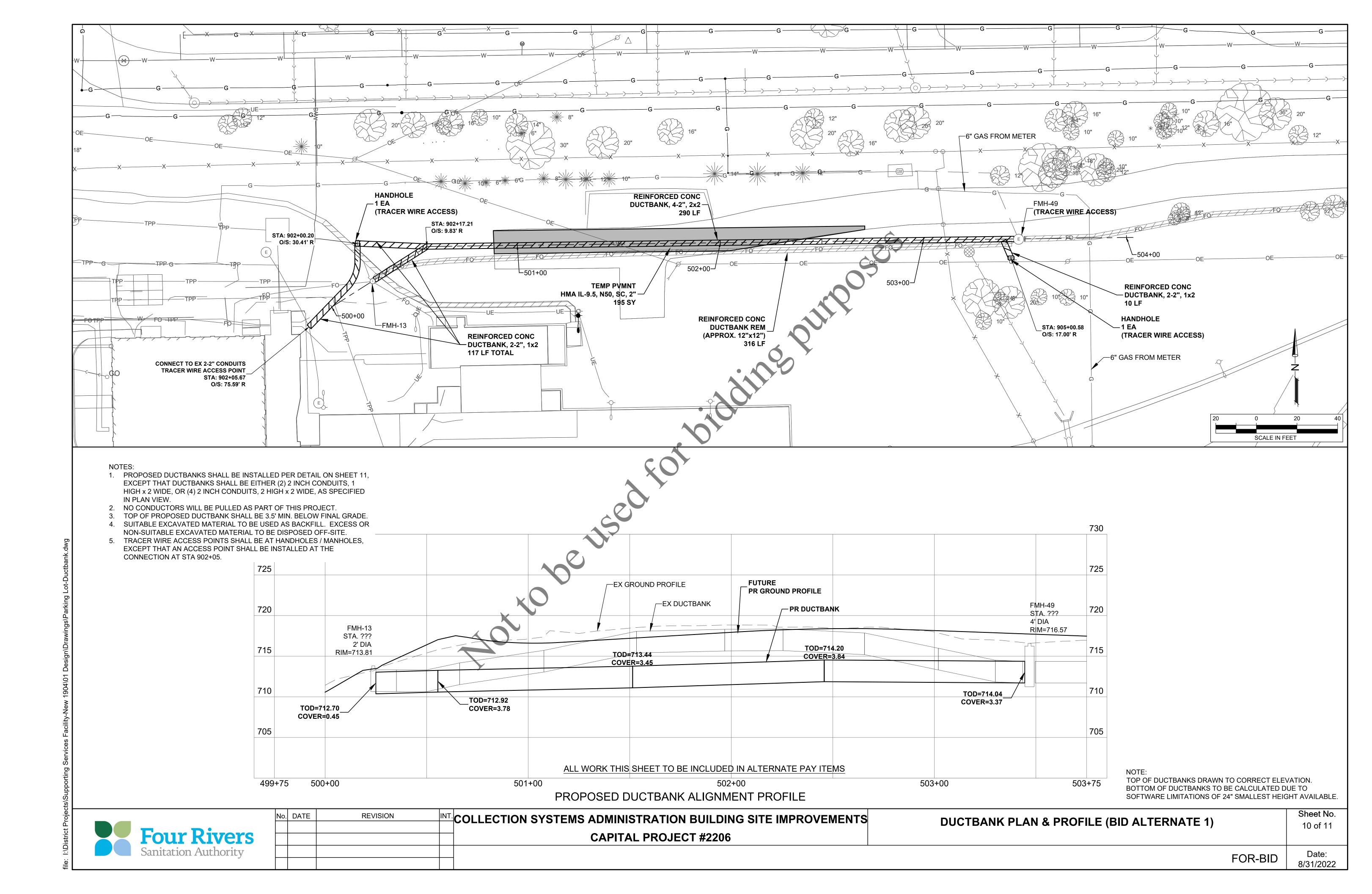
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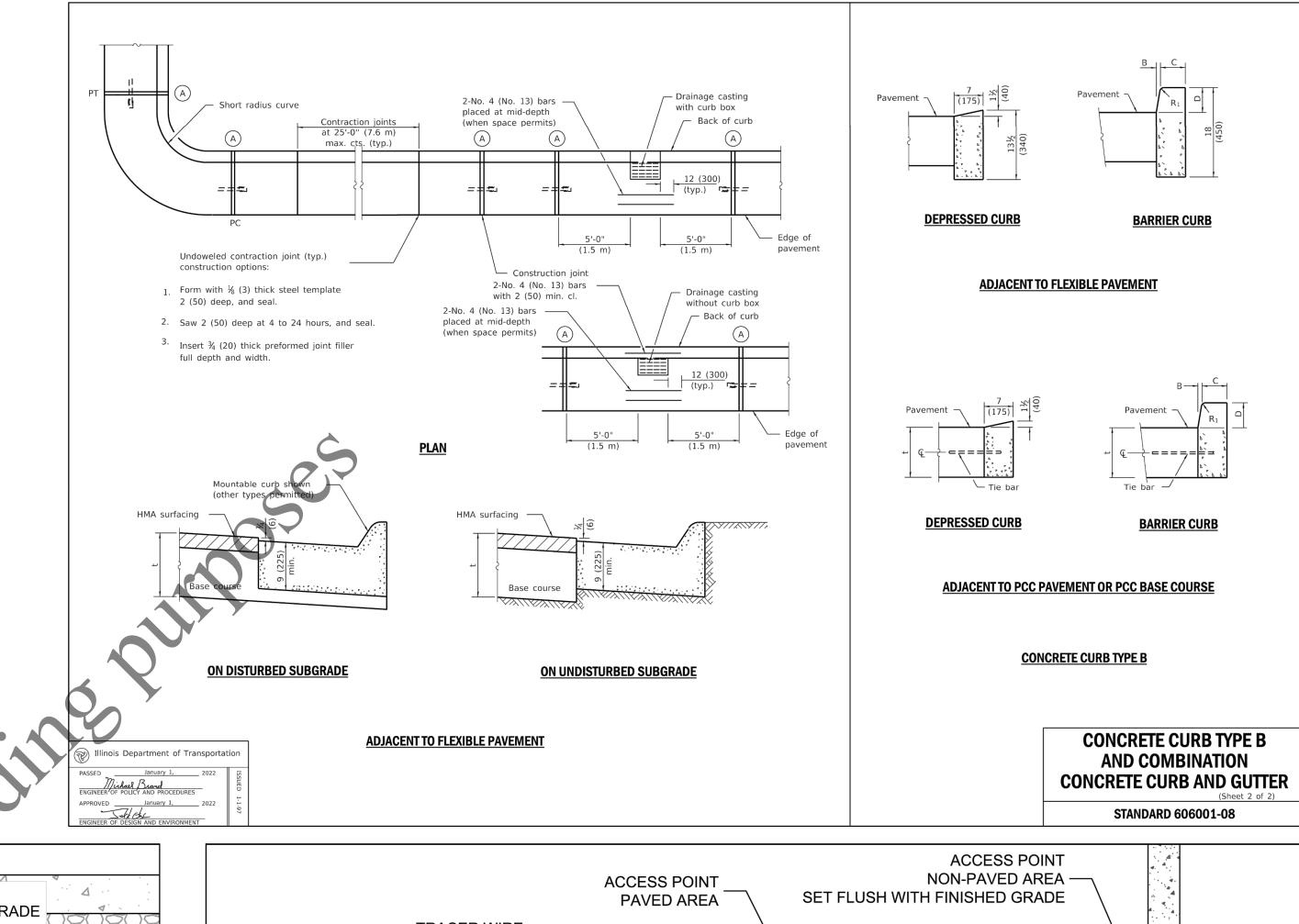
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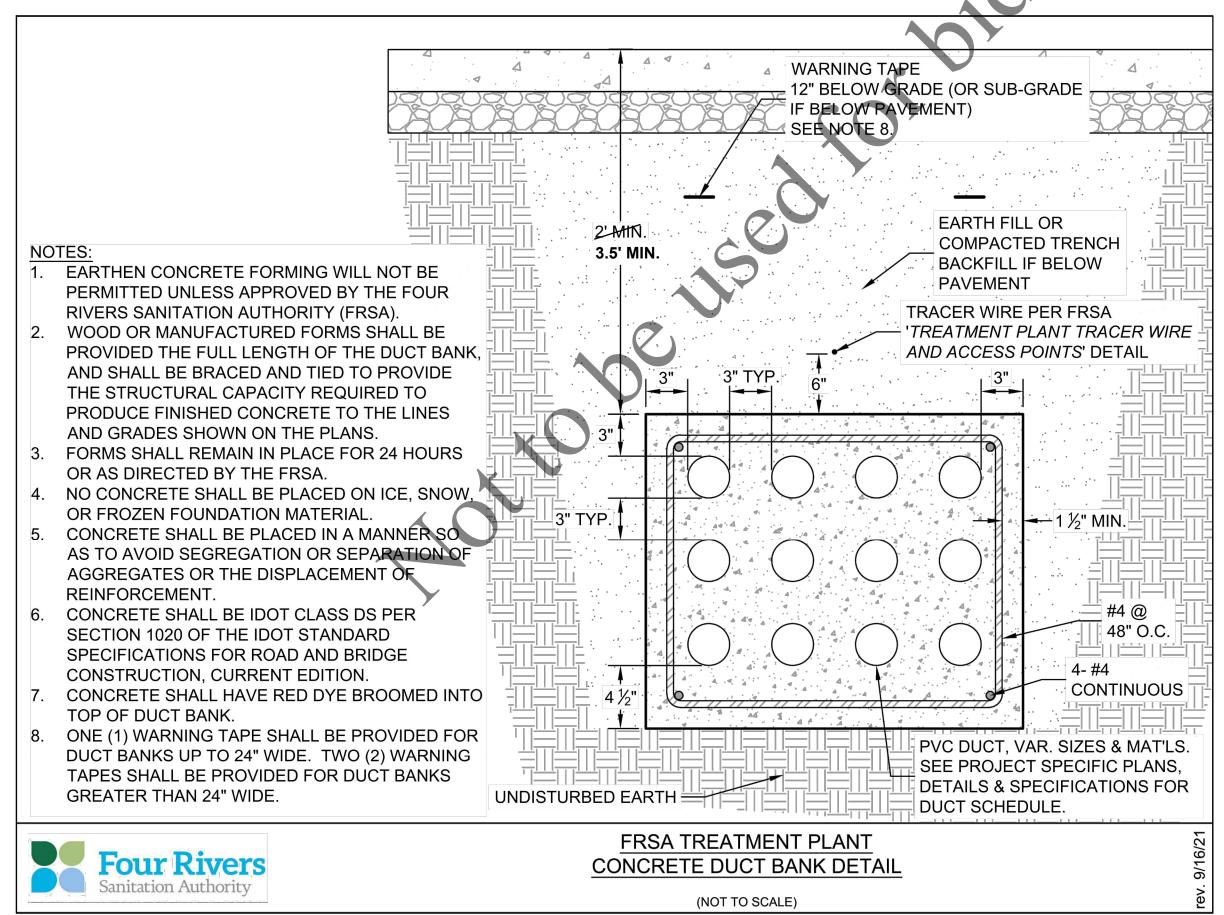
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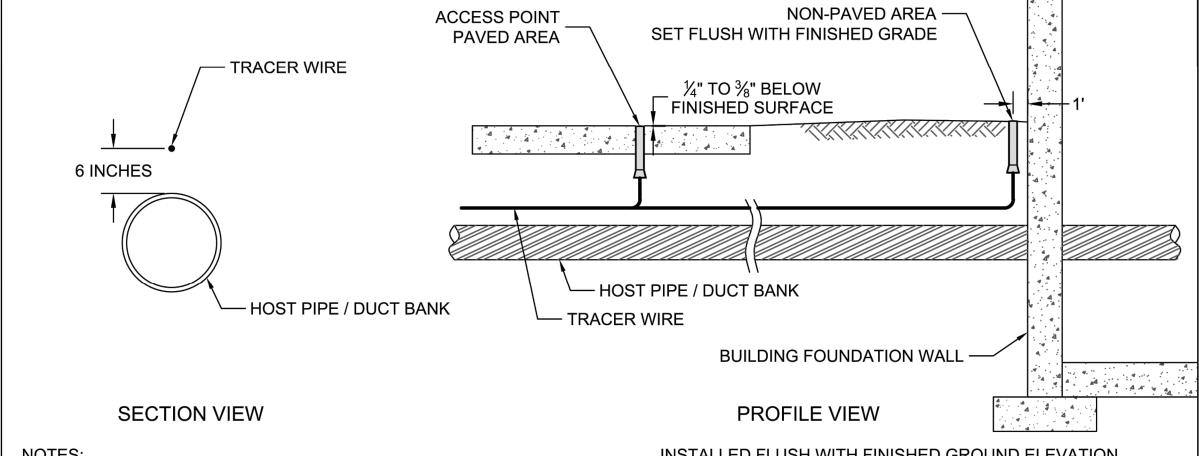
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PROFESSIONAL DESIGN FIRM REGISTRATION # 184-003342









NOTES:

1. ALL NEW UNDERGROUND PIPING AND DUCT BANKS SHALL BE BURIED WITH LOCATING TRACER WIRE APPROXIMATELY 6 INCHES ABOVE THE TOP OF PIPE. TRACER WIRES SHALL BE TERMINATED AS SHOWN ON THE PLANS OR AS DIRECTED.

2. TRACER WIRE SHALL BE COPPER-CLAD STEEL HIGH STRENGTH 12 AWG AS MFG BY COPPERHEAD INDUSTRIES AND SHALL BE COLOR CODED PER APWA UNIFORM COLOR CODE

3. ACCESS POINTS SHALL BE PROVIDED AT EACH END OF NEW PIPING, OR IN BETWEEN ENDS OF PIPING IF REQUIRED. THE MAXIMUM LINEAR DISTANCE BETWEEN ACCESS POINTS SHALL BE 800 FEET. ACCESS POINTS IN NON-PAVED AREAS SHALL BE SNAKEPIT LITE DUTY ADJUSTABLE SINGLE TERMINAL ACCESS POINTS AS MFG BY COPPERHEAD INDUSTRIES, AND SHALL BE

INSTALLED FLUSH WITH FINISHED GROUND ELEVATION. ACCESS POINTS IN PAVED AREAS SHALL BE SNAKEPIT ROADWAY SINGLE TERMINAL CAST IRON LID ACCESS POINTS AS MFG BY COPPERHEAD INDUSTRIES, AND SHALL BE INSTALLED  $\frac{1}{4}$ " TO  $\frac{3}{6}$ " BELOW FINAL PAVEMENT ELEVATION.



FRSA TREATMENT PLANT TRACER WIRE & ACCESS POINTS DETAIL

(NOT TO SCALE)



No. DATE COLLECTION SYSTEMS ADMINISTRATION BUILDING SITE IMPROVEMENTS REVISION **CAPITAL PROJECT #2206** 

**PROJECT DETAILS** 

Sheet No. 11 of 11

FOR-BID

8/31/2022

Date: