

ADDENDUM NO. 1
for
SANITARY SEWER MANHOLE REHABILITATION;
PROJECT NO. 2023-S-10

SEPTEMBER 2021

TO: All Bidders
RE: Addendum to Contractor's Bid Documents
LETTING DATE: January 30, 2023 @ 2:00 pm, Local Time

TO ALL WHO HAVE RECEIVED PLANS AND SPECIFICATIONS FOR THE REFERENCED PROJECT.

SCOPE

This Addendum covers the following additions, modifications, and clarifications to the Bid Manual and Drawings for the above-mentioned project scheduled to close 2:00 pm CST, Thursday, January 30, 2024.

FRONT-END DOCUMENTS

1. Updated Bid Form.

SPECIFICATIONS

1. Refer to Specification Section 01005 – ADMINISTRATIVE PROVISIONS.
 - a. Refer to Part 1. Add in 1.18 – PERMITS paragraph (attached).
2. Refer to Specification Section 01800 – MEASUREMENT AND PAYMENT.
 - a. Refer to Part 1.1.6 – DEFECT ASSESSMENT. Add paragraph E (attached).
 - b. Refer to Part 1.1.8 – SCHEDULE OF UNIT PRICES. Add paragraph O (attached).
3. Refer to Specification Section 09960 – HIGH-PERFORMANCE COATINGS.
 - a. Refer to Part 2.2.1.A. Add in SpectraShield as an approved equal.
 - b. Refer to Part 3.3.4. Add in Paragraph C for adhesion testing (attached).

DRAWINGS

1. Remove and replace sheet 2 of 26 – GENERAL NOTES with the attached.
2. Remove and replace sheet 7 of 26 – MANHOLE REHABILITATION PLAN with the attached.
3. Remove and replace sheet 9 of 26 – MANHOLE REHABILITATION PLAN with the attached.
4. Remove and replace sheet 13 of 26 – MANHOLE REHABILITATION PLAN with the attached.
5. Remove and replace sheet 17 of 26 – MANHOLE REHABILITATION PLAN with the attached.
6. Remove and replace sheet 23 of 26 – MANHOLE REHABILITATION PLAN with the attached.

OTHER INFORMATION

1. Not Used

Each Bidder must acknowledge receipt of all addenda in the space provided on the Bid Form.

END OF ADDITIONS/CLARIFICATIONS PER ADDENDUM NO. 1

Brian Friedrichsen, P.E.
Project Manager

Keith Kurz, P.E.
Public Works Director



Acknowledged by _____
Signature of Bidder

CONTRACTOR'S BID
ADDENDUM NO. 1

**SANITARY SEWER MANHOLE REHABILITATION;
PROJECT NO. 2023-S-10**

CITY OF GRAND ISLAND, NEBRASKA

CONTRACTOR'S BID- ADDENDUM NO. 1

TO THE MEMBERS OF THE COUNCIL
CITY OF GRAND ISLAND
GRAND ISLAND, NEBRASKA

THE UNDERSIGNED BIDDER, having examined the plans, specifications, general and special conditions, and other proposed contract documents, and all addenda thereto and being acquainted with and fully understanding (a) the extent and character of the work covered by this Bid, (b) the location, arrangement, and specified requirements for the proposed work, (c) the location, character, and condition of existing streets, roads, highways, railroad, pavements, surfacing, walks, driveways, curbs, gutters, trees, sewers, utilities, drainage courses and structures, and other installations, both surface and underground which may affect or be affected by the proposed work, (d) the nature and extent of the excavations to be made and the handling and re-handling of excavated materials, (e) the location and extent of necessary or probable dewatering requirements, (f) the difficulties and hazards to the work which might be caused by storm and flood water, (g) local conditions relative to labor, transportation, hauling and rail delivery facilities, and (h) all other factors and conditions affecting or which may be affected by the work.

HEREBY PROPOSES to furnish all required materials, supplies, equipment, tools and plans, to perform all necessary labor and supervision, and to construct, install, erect, equip and complete all work stipulated in, required by and in accordance with the contract documents and the plans, specifications and other documents referred to therein (as altered, amended or modified by all addenda thereto) for and in consideration of the following prices:

BASE BID SECTION

| Item No. | Item | Est. Quantity | Unit | Unit Price | Extended Price |
|----------|--|---------------|------|------------|----------------|
| 1 | Mobilization / Demobilization | 1.00 | LS | \$ | \$ |
| 2 | Remove & Replace Ex. Manhole Frame & Cover | 1.00 | EA | \$ | \$ |
| 3 | Install Poly Ring Infiltration Barrier | 1.00 | EA | \$ | \$ |
| 4 | Install Elastomeric Chimney Infiltration Barrier | 1.00 | EA | \$ | \$ |
| 5 | Remove Manhole Step | 464.00 | EA | \$ | \$ |
| 6 | Infiltration Leak MH Sidewall | 3.00 | EA | \$ | \$ |
| 7 | Bench & Invert Replacement | 1.00 | EA | \$ | \$ |
| 8 | Manhole Repair Patching | 11.00 | EA | \$ | \$ |

| | | | | | |
|----|-------------------------------------|------|----|----|----|
| 9 | Remove & Replace Inside Drop Piping | 3.00 | EA | \$ | \$ |
| 10 | Bypass Pumping | 2.00 | EA | \$ | \$ |
| 11 | Traffic Control | 1.00 | LS | \$ | \$ |
| 12 | Liner Testing Repair | 8.00 | EA | \$ | \$ |

BASE BID TOTAL= \$ _____

ALTERNATE BID SECTION NO. 1

| Item No. | Item | Est. Quantity | Unit | Unit Price | Extended Price |
|----------|---|---------------|------|------------|----------------|
| ALT 1-1 | 1/2" Cementitious Concrete Lining (48" Dia. MH) | 754.40 | VF | \$ | \$ |
| ALT 1-2 | 1/2" Cementitious Concrete Lining (54" Dia. MH) | 320.28 | VF | \$ | \$ |
| ALT 1-3 | 1/2" Cementitious Concrete Lining (60" Dia. MH) | 66.05 | VF | \$ | \$ |
| ALT 1-4 | Epoxy Lining (48" Dia. MH) | 646.77 | VF | \$ | \$ |
| ALT 1-5 | Epoxy Lining (54" Dia. MH) | 245.78 | VF | \$ | \$ |
| ALT 1-6 | Epoxy Lining (60" Dia. MH) | 66.05 | VF | \$ | \$ |

ALTERNATE NO. 1 TOTAL= \$ _____

ALTERNATE BID SECTION NO. 2

| Item No. | Item | Est. Quantity | Unit | Unit Price | Extended Price |
|----------|--------------------------------------|---------------|------|------------|----------------|
| ALT 2-1 | Manhole Rehabilitation (48" Dia. MH) | 646.77 | VF | \$ | \$ |
| ALT-2-2 | Manhole Rehabilitation (54" Dia. MH) | 245.78 | VF | \$ | \$ |
| ALT 2-3 | Manhole Rehabilitation (60" Dia. MH) | 66.05 | VF | \$ | \$ |

ALTERNATE NO. 2 TOTAL= \$ _____

BASE BID + ALTERNATE BID NO. 1 Total= \$ _____

BASE BID + ALTERNATE BID NO. 2 TOTAL= \$ _____

EXPERIENCE DATA:

Each bidder shall supply the following data on their experience:

Name of Bidder: _____

Project Owner/Contact/Phone No. _____ Project Location _____ Completion Date _____

Additional Data: _____

INSURANCE: Bidder acknowledges that bid includes compliance with the attached insurance requirements.

ADDENDA:

Bidder acknowledges that the following Addendums were received and considered in Bid preparation.

| <u>ADDENDUM NO.</u> | <u>DATE</u> | <u>SIGNATURE</u> |
|---------------------|-------------|------------------|
| _____ | _____ | _____ |

Exceptions shall be listed in the following blanks. If additional space is required for exception explanation, please reference and attach a letter to bid. Reference shall not be made to other attachments for exceptions and supplementary terms. Failure to outline such exceptions as specifically stated herein will require the successful bidder to comply with these specifications. In case of conflict between the bid and these specifications, these specifications shall govern unless specific exceptions are listed by the bidder.

Exceptions to specifications, pages _____

The undersigned bidder agrees to furnish the required performance and payment bond and to enter into a contract within fifteen (15) days after acceptance of this Bid, and further agrees to complete all work covered by the foregoing bid in accordance with specified requirements. **No work shall commence until the Certificate of Insurance and bonds (when required) are approved by the City and the contract is executed.** The proposed work can commence after the contract is signed and the required bond is approved.

Completion: All contract work shall be substantially complete by **July 30, 2024**, with final completion for the whole project by **August 15, 2024**. The section of manholes south of Guenther Road along the west side of US Highway 281 and located within row crop ground are to be completed by May 24, 2024. These manholes are shown as B18-1, B18-2, B18-3, B18-4, and B19-1.

Liquidated Damages: It is understood and agreed that time is the essence of the contract. Should the Contractor fail to perform all of the work within the overall period of time stipulated in the Contract Agreement, the Contractor shall pay to the City, as liquidated damages and not as a penalty, **\$500.00 per calendar** day of default unless extensions of time granted by the City specifically provide for the waiving of liquidated damages.

The City shall have the right to deduct the liquidated damages from any moneys in its hands, otherwise due, or to become due, to the Contractor, or to use for and recover compensation for damages for non-performance of this contract within the time stipulated.

Enclosed herewith is the required bid guarantee in the amount of _____ Dollars (\$_____)

which the undersigned bidder agrees is to be forfeited to and become the property of the City of Grand Island, Nebraska, as liquidated damages should this Bid be accepted and a contract be awarded to them and they fail to enter into a contract in the form prescribed and to furnish the required bond within fifteen (15) days, but otherwise the aforesaid bid guarantee will be returned upon signing the contract and delivering the approved bond.

In submitting the bid it is understood that the right is reserved by the City to reject any and all bids; to waive irregularities therein and to accept whichever bid that may be in the best interest of the City. It is understood that this bid may not be withdrawn by the bidder until after forty-five (45) days from bid opening.

In submitting the bid, the bidder states that bidder fully complies with, and will continue to comply with, applicable State fair labor standards as required by section 73-102 RRS, 1943 and also complies with, and will continue to comply with, section 48-657 RRS, 1943 pertaining to contributions to the Unemployment Compensation Fund of the State of Nebraska.

The undersigned bidder hereby certifies (a) that this bid is genuine and is not made in the interest of or in the behalf of any undisclosed person, firm or corporation, and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation, (b) that they have not directly or indirectly induced or solicited any person, firm or corporation to refrain from bidding, (c) that they have not sought, by collusion or otherwise, to obtain for themselves an advantage over any other bidder or over the City of Grand Island, and (d) that they have not directly or indirectly induced or solicited any other bidder to put in a false or sham bid.

DATED _____

SIGNATURE OF BIDDER:

If an Individual: _____ doing business

as _____

If a Partnership: _____

by _____, member of firm.

If a Corporation: _____

by _____ (Seal)
Title

BUSINESS ADDRESS OF BIDDER

TELEPHONE NUMBER OF BIDDER

EMAIL

- F. Restore Work with new Products in accordance with requirements of Contract Documents.
- G. Fit Work tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
- H. Maintain integrity of wall, ceiling, or floor construction; completely seal voids.
- I. Refinish surfaces to match adjacent finishes. For continuous surfaces, refinish to nearest intersection; for an assembly, refinish entire unit.
- J. Identify hazardous substances or conditions exposed during the Work to the Engineer for decision or remedy.

1.16 CORRECTION PERIOD

- A. Correct all defective work for one year after final acceptance of the project.
- B. Promptly repair or replace at no cost to the Owner all defects in material or workmanship which may appear during the correction period.

1.17 UNFAVORABLE CONSTRUCTION CONDITIONS

- A. During unfavorable weather, wet ground, or other unsuitable construction conditions, the Contractor shall confine his operations to work which will not be affected adversely by such conditions. No portion of the work shall be constructed under conditions which would affect adversely the quality or efficiency thereof, unless special means or precautions are taken by the Contractor to perform the work in a proper and satisfactory manner.

1.18 PERMITS

- A. **The contractor shall pay the cost of all required permits and fees. The contractor shall coordinate all permits with the City of Grand Island Public Works Department. Expected permits include a ROW Construction Permit & Use of Public ROW Permit.**
 1. **Contractor can work and isolate areas in the City ROW without a permit as long as it is daily work.**
 2. **Contractor shall obtain a ROW Construction Permit if they dig, modify, remove, and/or replace ROW infrastructure.**
 3. **Contractor shall obtain a Use of Public ROW Permit if they plan on container(s) type item being in ROW longer than a daily activity.**
 4. **Traffic control devices, and Cone Zone compliance shall be strictly enforced within the City ROW.**

PART 2 PRODUCTS

Not Used.

- E. **A defect shall mean that any portion of the product or Work does not meet the requirements as provided by the specific product manufacturer.**

1.7 NON-PAYMENT FOR REJECTED PRODUCTS

- A. Payment will not be made for any of the following:
 - 1. Products wasted or disposed of in a manner that is not acceptable.
 - 2. Products determined as unacceptable before or after placement.
 - 3. Products not completely unloaded from the transporting vehicle.
 - 4. Products placed beyond the lines and levels of the required Work.
 - 5. Products remaining on hand after completion of the Work.
 - 6. Loading, hauling, and disposing of rejected Products.

1.8 SCHEDULE OF UNIT PRICES

The unit prices shall encompass all work required to complete the Work in accordance with the drawings and specifications and the limits on quantities of certain items of work as follows:

- A. Mobilization/Demobilization. This bid item shall include all costs for bonds, insurance, establishing temporary facilities, moving construction equipment to and from the job site, and all appurtenances related to the work not otherwise specifically called out. The pay item is one (1) lump sum, with an equitable amount (25%) to be withheld until demobilization after final completion of the work.
- B. Remove and Replace Existing Manhole Frame and Cover. This bid item shall include all labor, materials, equipment, excavation, demolition, disposal, furnishing and installing new cast iron manhole ring and cover, backfill, compaction, cleanup, and incidental work for the removal of the existing manhole ring and cover and installation of a new cast iron manhole ring and cover in accordance with the plans and specifications. The pay item is one (1) each.
- C. Poly Ring Infiltration Barrier. This bid item shall include all labor, materials, equipment, excavation, furnishing and installing new poly ring infiltration barrier, backfill, compaction, cleanup, and incidental work for installing a poly ring infiltration barrier in accordance with the plans and specifications. The pay item is one (1) each.
- D. Elastomeric Chimney Infiltration Barrier. This bid item shall include all labor, materials, equipment, excavation, furnishing and installing new elastomeric chimney infiltration barrier, backfill, compaction, cleanup, and incidental work for installing an

applicable), site restoration, and other items and incidental work for installing, maintaining, and removing bypass pumping for the repair of a manhole flowline in accordance with the plans and specifications. The pay item is one (1) each for each manhole in which the flowline is repaired. If the Contractor is able to plug the manhole with a solid plug or pass through plug and not have to operate pumps for bypassing than the pay item for that particular manhole will be 0.5 each.

N. Traffic Control. This pay item shall include all labor, materials, equipment, signs, flashers, barricades, temporary access, traffic control plan, and other items and incidental work for developing a traffic control plan, and installing, and maintain the traffic control plan in accordance with the plans and specifications. The pay item is one (1) lump sum.

O. **Liner Testing Repair.** This pay item shall include all labor, materials, equipment, removals, surface preparation, rehabilitation coating, cleanup, and all incidental items in accordance with the plans and specifications to repair the selected liner after the City of Grand Island performs adhesion testing as detailed in ASTM D4541-22 and D7234-22. The pay item is one (1) each.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

Not Used.

END OF SECTION

- D. Container labeling to include manufacturer's name, type of paint, brand name, brand code, coverage, surface preparation, drying time, cleanup, color designation, and instructions for mixing and reducing.
- E. Store paint materials at minimum ambient temperature of 45° F and a maximum of 90° F, in well ventilated area, unless required otherwise by manufacturer's instructions.
- F. Take precautionary measures to prevent fire hazards and spontaneous combustion.

1.7 FIELD CONDITIONS

- A. Provide continuous ventilation and heating facilities to maintain surface and ambient temperatures above 50° F from 24 hours before, through 48 hours after application of finishes, unless required otherwise by manufacturer's instructions.
- B. Do not apply exterior coatings during rain or snow, or when relative humidity is outside the humidity ranges required by the manufacturer.
- C. Provide lighting level of 80 ft candles measured mid-height at substrate surface.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Polibrid Coatings, Inc.
 - 2. OBIC, LLC.
 - 3. Raven Lining Systems.
 - 4. The Strong Company, Inc.
 - 5. Five Star Products.
 - 6. International Protective Coatings.
 - 7. Tnemec
 - 8. DuraSeal
 - 9. **SpectraShield**

2. If test results show that dry film thickness of applied coating does not comply with coating manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with coating manufacturer's written recommendations.

C. Adhesion Testing: Owner shall randomly select at a minimum 8 manholes to preform adhesion testing on. Owner shall complete the testing per ASTM D4541-22 and D7234-22. If any of the adhesion tests fail the adhesion recommendations found in the manufacturers data sheets, additional testing may be completed at the cost of the contractor. Any failed adhesion test may result in a deduct of costs for the failed manhole.

3.5 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing coating application, clean spattered surfaces. Remove spattered coatings by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from coating operation. Correct damage by cleaning, repairing, replacing, and recoating, as approved by Architect, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced coated surfaces.

3.6 HIGH-PERFORMANCE COATING SCHEDULE

- A. Concrete Substrates:
 - 1. Raven System:
 - a. Surface Prep: 5,000 psi @ 3.5 gpm power wash to an ICRI CSP5 minimum profile. Remove all visible coatings and contaminants by abrasive blasting or power washing to achieve minimum CSP5 profile.
 - b. Repair Mortar: Raven 405T applied to areas deeper than ½", material thickness shall rebuild wall to original profile not to exceed 2" of material, rebuild 2" of profile in areas where deterioration exceeds 2". Follow Raven "Epoxy Mortars Technical Bulletin" Appendix "C" for addition of aggregate to Raven 405T for all applications greater than 1" depth.

GENERAL NOTES:

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF GRAND ISLAND STANDARD SPECIFICATIONS AND STANDARD DRAWINGS. CITY OF GRAND ISLAND STANDARD PLANS AND SPECIFICATIONS ARE AVAILABLE ON THE CITY OF GRAND ISLAND WEB SITE (GRAND-ISLAND.COM). CONTRACTOR RESPONSIBLE FOR MAKING THEMSELVES FAMILIAR WITH THESE SPECIFICATIONS.
2. CONTRACTOR SHALL PRESERVE ALL PROPERTY CORNER MONUMENTS OR RE-ESTABLISH THEM IF THEY ARE DISTURBED DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL PAY THE COST OF ALL REQUIRED PERMITS AND FEES. THE CONTRACTOR SHALL COORDINATE ALL PERMITS WITH THE CITY OF GRAND ISLAND PUBLIC WORKS DEPARTMENT. EXCEPTED PERMITS INCLUDE A ROW CONSTRUCTION PERMIT AND USE OF PUBLIC ROW PERMIT.
3.1. CONTRACTOR CAN WORK AND ISOLATE AREAS IN THE CITY ROW WITHOUT A PERMIT AS LONG AS IT IS DAILY WORK.
3.2. CONTRACTOR SHALL OBTAIN A ROW CONSTRUCTION PERMIT IF THEY DIG, MODIFY, REMOVE, AND/OR REPLACE ROW INFRASTRUCTURE.
3.3. CONTRACTOR SHALL OBTAIN A USE OF PUBLIC ROW PERMIT IF THEY PLAN ON CONTAINER(S) TYPE ITEM BEING IN ROW LONGER THAN A DAILY ACTIVITY.
3.4. TRAFFIC CONTROL DEVICES, AND CONE ZONE COMPLIANCE SHALL BE STRICTLY ENFORCED WITHIN THE CITY ROW.
4. THE CONTRACTOR SHALL USE EXTREME CAUTION IN THE AREA OF EXISTING MANHOLES, POWER POLES, AND EXISTING UTILITIES, AND SHALL BE RESPONSIBLE FOR DAMAGES.
5. SUBGRADE SHALL BE COMPACTED TO 98% OF MAXIMUM DRY DENSITY. MOISTURE CONTENT SHALL BE ±3% OF OPTIMUM.
6. SAW CUTTING PAVEMENT FOR REMOVAL SHALL BE SUBSIDIARY. PAVEMENT THAT IS REMOVED SHALL BE FULL PANELS.
7. THE CONTRACTOR SHALL REPAIR ALL SPRINKLER SYSTEMS DAMAGED DURING CONSTRUCTION.
8. TESTING OF SUBGRADE COMPACTION AND MOISTURE AS WELL AS CONCRETE TESTING SHALL BE COMPLETED PER GRAND ISLAND CITY SPECIFICATIONS.
9. THE LOCATION OF ALL AERIAL AND UNDERGROUND UTILITY FACILITIES MAY NOT BE INDICATED ON THESE PLANS. UNDERGROUND UTILITIES, WHETHER INDICATED OR NOT WILL BE LOCATED AND FLAGGED BY THE UTILITIES AT THE REQUEST OF THE CONTRACTOR. NO EXCAVATION WILL BE PERMITTED IN THE AREA OF UNDERGROUND UTILITY FACILITIES.
10. UNTIL ALL SUCH FACILITIES HAVE BEEN LOCATED AND IDENTIFIED TO THE SATISFACTION OF ALL PARTIES, THE EXCAVATION MUST BE ACCOMPLISHED WITH EXTREME CARE IN ORDER TO AVOID ANY POSSIBILITY OF DAMAGE TO THE UTILITY FACILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES.
11. CONTRACTOR TO PROVIDE ALL INCIDENTAL FITTINGS AND ITEMS NECESSARY TO COMPLETE WORK.
12. PRIOR TO MOVING OFF SITE THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING REQUESTING A FINAL WALK-THROUGH OF THE PROJECT.
13. THE CONTRACTOR WILL NOT BE ALLOWED TO PERIODICALLY WORK ON THE PROJECT. ONCE THE CONTRACTOR MOBILIZES TO THE SITE, THEY ARE TO REMAIN ONSITE WORKING ON THE PROJECT UNTIL ALL WORK IS COMPLETED. THE ONLY EXCEPTION IS FOR THE SECTION OF MANHOLES ON HIGHWAY 281 SOUTH OF GUENTHER ROAD. THESE SHALL BE COMPLETED BY MAY 24TH 2024.
14. CONCRETE AND GROUT IS TO BE TESTED BY CITY AND LINER TESTING TO BE DONE BY CONTRACTOR WITH OLSSON INSPECTION.
15. CONTRACTOR IS ALLOWED TO USE WASTEWATER TREATMENT PLANT AS A STAGING AREA FOR PRODUCTS AND EQUIPMENT.
16. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE CITY CONE ZONE SYSTEM TO KEEP THE PUBLIC NOTIFIED. CONTRACTOR TO PROVIDE ALL UPDATES TO CITY OF GRAND ISLAND PUBLIC WORKS DEPARTMENT AT 308-385-5444 EXT. 260. UPDATES TO BE PROVIDED ON A WEEKLY BASIS.
17. CONTRACTOR TO NOTIFY ALL BUSINESSES AND/OR HOMEOWNERS IF THERE WILL BE ANY SANITARY SEWER OUTAGES DURING THE PROJECT. NOTIFICATIONS ARE TO BE PROVIDED A MINIMUM OF 48 HOURS IN ADVANCE.
18. CONTRACTOR SHALL FOLLOW ALL CONFINED SPACE REQUIREMENTS SET BY THE MOST RECENT OSHA GUIDELINES.
19. CONTRACTOR SHALL NOT ALLOW ANY DEBRIS TO ENTER THE SANITARY SEWER SYSTEM AND SHALL HAVE IT REMOVED FROM THE MANHOLE AND DISPOSED OF.
20. CONTRACTOR SHALL BE REGISTERED TO DO BUSINESS IN THE STATE OF NEBRASKA.
21. ANY MANHOLES THAT HAVE BEEN PREVIOUSLY EPOXY LINED SHALL HAVE THE EPOXY LINER REMOVED PER THE MANUFACTURER'S RECOMMENDATIONS. THIS WORK SHALL BE SUBSIDIARY TO MANHOLE REHABILITATION.

CONSTRUCTION PHASING, BYPASS PUMPING, AND TRAFFIC CONTROL:

- 1. THE CONTRACTOR IS TO SUBMIT A CONSTRUCTION PHASING PLAN IDENTIFYING THE SCHEDULE FOR COMPLETING THE MANHOLE REHABILITATION. THE SCHEDULE IS TO BE REVIEWED AND APPROVED PRIOR TO BEGINNING WORK. THE PLAN IS TO DETAIL THE CONTRACTOR'S PLANNED PROGRESSION THROUGH THE PROJECT AND THE ESTIMATED TIME FRAME IN WHICH THE PROJECT WILL BE COMPLETED.
2. THE CONTRACTOR IS TO SUBMIT A BYPASS PUMPING PLAN FOR REVIEW AND APPROVAL PRIOR TO BEGINNING OPERATIONS. DURING BYPASS PUMPING OPERATIONS, THE CONTRACTOR IS TO CONTINUOUSLY MONITOR THE SYSTEM TO ENSURE THAT NO DISCHARGES OUTSIDE OF THE SYSTEM OR SEWER BACKUPS OCCUR.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL. THE TRAFFIC CONTROL PLAN SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE MANUAL UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE TRAFFIC CONTROL PLAN SHALL BE REVIEWED AND APPROVED BY THE CITY PRIOR TO IMPLEMENTATION.

PRODUCT NOTES:

- 1. MANHOLE RING AND COVER IS TO BE DEETER NO. 1030 OR EQUAL WITH MACHINED EDGES & MINIMUM WEIGHT OF 450 LBS.
2. CONCRETE GROUT FOR MANHOLE FLOWLINE REPAIR AND MANHOLE BENCH REPAIR IS TO BE A PRODUCT THAT IS SUITABLE FOR WASTEWATER ENVIRONMENTS.
3. MANHOLE ADJUSTMENT RINGS ARE TO BE PRO-RING BY CRETEX.

MISCELLANEOUS NOTES:

- 1. THE CONTRACTOR IS TO COORDINATE WITH THE CITY WATER DEPARTMENT (CONTACT RUBEN SANCHEZ, 308-385-5436) TO OBTAIN A TEMPORARY WATER METER FOR WATER USE DURING CONSTRUCTION. THE CITY HAS LIMITED TEMPORARY WATER METERS SO IT IS RECOMMENDED THAT ONE BE RESERVED IN ADVANCE OF CONSTRUCTION.
2. THE CONTRACTOR IS TO COORDINATE WITH THE CITY WASTEWATER TREATMENT PLANT FOR THE DISCHARGE OF GRIT AND OTHER MATERIAL REMOVED FROM THE SEWER LINES DURING CLEANING. THE COST OF DISCHARGE AT THE WASTEWATER TREATMENT PLANT FOR THESE MATERIALS WILL BE FREE.
3. ALL WORK SHALL BE CONDUCTED WITHIN STREET R.O.W., ALLEY R.O.W., OR CITY UTILITY EASEMENTS.
4. SEWER FLOW LINE ELEVATIONS ARE BASED OFF OF CITY GIS INFORMATION AND MAY NOT BE 100% ACCURATE.
5. THE CITY SHALL PROVIDE THE NEW RING AND COVER TO THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR ITS INSTALLATION. THE CONTRACTOR IS TO SALVAGE THE MANHOLE RING AND COVERS TO THE CITY.
6. THE 4'x4' CONCRETE SQUARE FOR THE MANHOLE RING AND COVER IS TO BE IN A DIAMOND PATTERN AS PER CITY OF GRAND ISLAND STANDARD DETAIL 114 (SHEET 2 OF 2).
7. PAVEMENT REPLACEMENT IS TO BE DONE WITH 3600 PSI NDOT 47-B HI-EARLY STRENGTH CONCRETE. PAVEMENT TO BE OPEN TO TRAFFIC IN 72 HOURS.

CONSTRUCTION NOTES:

- 1. CEMENTITIOUS CONCRETE LINING IS TO INCLUDE CONCRETE LINING THE MANHOLE TO THE THICKNESS INDICATED FROM THE RING AND COVER TO THE MANHOLE BENCH AFTER THE MANHOLE HAS BEEN THOROUGHLY CLEANED. THE VERTICAL FOOTAGE WILL BE BASED ON RIM OF MANHOLE TO CENTERLINE OF PIPE. ANY INSIDE DROP MANHOLES WILL NEED PIPING REMOVED BEFORE APPLYING LINING AND REINSTALLED AFTER. THIS WORK IS SUBSIDIARY AND NO EXTRA PAYMENT WILL BE MADE. CONTRACTOR TO VERIFY ALL REINSTALLED PIPING IS PROPERLY SUPPORTED. MAXIMUM THICKNESS OF CEMENTITIOUS LINING PER LIFT SHALL BE 0.5". THE "0.5" CEMENTITIOUS CONCRETE LINING" PAY ITEM IS BASED ON THE NUMBER OF 0.5" LIFTS THAT ARE APPLIED TO THE MANHOLES. FOR EXAMPLE, IF A MANHOLE REQUIRES 12.50 V.F. OF 1" CEMENTITIOUS CONCRETE LINING, THE CONTRACTOR WILL BE PAID FOR 25.0 V.F. UNDER THE "0.5" CEMENTITIOUS CONCRETE LINING" PAY ITEM.
2. EPOXY LINING IS TO INCLUDE LINING THE MANHOLE FROM THE RING AND COVER TO CENTERLINE OF PIPE AND INCLUDING THE MANHOLE BENCH AFTER THE MANHOLE HAS BEEN THOROUGHLY CLEANED. THE VERTICAL FOOTAGE WILL BE BASED ON RIM OF MANHOLE TO CENTERLINE OF PIPE.
3. REMOVE MANHOLE STEP IS TO INCLUDE CUTTING OR GRINDING THE MANHOLE STEP SO THAT IT IS FLUSH WITH THE EDGE OF THE MANHOLE. THE PAY ITEM WILL BE FOR EACH MANHOLE STEP REMOVED.
4. PLACE MANHOLE ADJUSTMENT RING IS TO INCLUDE THE REMOVAL OF THE RING AND COVER, CLEANING AND PREPARING THE TOP OF THE MANHOLE, FURNISHING AND INSTALLING PLASTIC MANHOLE ADJUSTMENT RINGS, AND REPLACEMENT OF MANHOLE RING AND COVER. THE PAY ITEM WILL BE FOR EACH MANHOLE IN WHICH ADJUSTMENT RINGS ARE PLACED REGARDLESS OF NUMBER AND/OR THICKNESS OF ADJUSTMENT RINGS REQUIRED TO GET THE RING AND COVER TO GRADE.
5. REMOVE AND REPLACE MANHOLE RING AND COVER IS TO INCLUDE THE REMOVAL AND SALVAGING OF THE EXISTING RING AND COVER TO THE CITY, PLACEMENT OF NEW RING AND COVER THAT HAS BEEN PROVIDED TO THE CONTRACTOR BY THE CITY AND REMOVAL AND REPLACEMENT OF THE CONCRETE PAD AROUND THE RING AND COVER. THE PAY ITEM WILL BE FOR EACH MANHOLE RING AND COVER REMOVED AND REPLACED.
6. REPAIR MANHOLE IS TO INCLUDE REPLACING OR REPAIRING ALL BRICK IN THE MANHOLE AND PATCHING ALL VOIDS AROUND THE PIPE PENETRATIONS INTO THE MANHOLE TO THE POINT TO WHERE THE MANHOLE CAN BE CEMENTITIOUS COATED WITHOUT ANY DIPS IN THE COATING GREATER THAN 1/4". THE PAY ITEM IS ONE EACH WHICH IS TO INCLUDE ALL NEEDED REPAIRS IN THE MANHOLE.
7. REPAIR MANHOLE INFILTRATION LEAK WILL BE FOR FURNISHING MATERIALS NECESSARY TO STOP THE INFILTRATION LEAK AT THE MANHOLE. THE PAY ITEM IS FOR EACH MANHOLE INFILTRATION LEAK THAT IS REPAIRED TO WHERE IT IS NO LONGER LEAKING INTO THE MANHOLE.
8. REPAIR MANHOLE BENCH WILL BE FOR REMOVAL OF ANY LOOSE MATERIALS IN THE MANHOLE BENCHES, SURFACE PREPARATION, AND CONCRETE GROUT PLACEMENT FOR REPAIRING THE MANHOLE BENCHES SO THAT A SMOOTH AND UNIFORM BENCH EXISTS IN THE MANHOLE. THE PAY ITEM IS FOR EACH MANHOLE IN WHICH THE BENCHES ARE REPAIRED.
9. TRAFFIC CONTROL IS FOR FURNISHING AND INSTALLING THE NEEDED TRAFFIC CONTROL SIGNAGE, BARRICADES, FLAGMAN, AND CONES FOR PROPER TRAFFIC CONTROL NECESSARY FOR WORK IN WHICH TRAFFIC FLOW IS IMPACTED DURING COMPLETION OF THE PROJECT. THE PAY IS A LUMP SUM AMOUNT TO COMPLETE THE NEEDED TRAFFIC CONTROL FOR THE ENTIRE PROJECT.
10. REPAIR MANHOLE FLOWLINE WILL BE FOR REMOVAL OF ANY LOOSE MATERIALS IN THE MANHOLE FLOWLINE, SURFACE PREPARATION, AND CONCRETE GROUT PLACEMENT FOR REPAIRING THE MANHOLE FLOWLINE SO THAT A SMOOTH AND UNIFORM FLOWLINE EXISTS IN THE MANHOLE. THE PAY ITEM IS FOR EACH MANHOLE IN WHICH THE FLOWLINE IS REPAIRED.
11. BYPASS PUMPING IS FOR FURNISHING AND INSTALLING THE NEEDED BYPASS PUMPING TO PROPERLY BYPASS MANHOLES IN ORDER TO COMPLETE THE REQUIRED WORK IN THE MANHOLES WHICH COULD NOT BE COMPLETED IF BYPASS PUMPING WAS NOT DONE. THE PAY IS PER EACH MANHOLE THAT BYPASS PUMPING IS REQUIRED FOR IN ORDER TO COMPLETE THE WORK. TRAFFIC CONTROL NECESSARY FOR BYPASS PUMPING INCLUDING SIGNS, CONES, FLAGMEN IS SUBSIDIARY TO BYPASS PUMPING. THE CONTRACTOR IS NOT ABLE TO BLOCK STREETS OR ALLEYS WITH DISCHARGE PIPING DURING BYPASS PUMPING OPERATIONS. IF THE CONTRACTOR IS ABLE TO PLUG THE MANHOLE AND NOT OPERATE ANY PUMPS FOR BYPASSING THEN THE PAY ITEM FOR THAT PARTICULAR MANHOLE WILL 0.5 EA. FLOW THROUGH PLUGS ARE ACCEPTABLE.
12. MANHOLE REHABILITATION SHALL INCLUDE USING A PRE-APPROVED LINER SYSTEM TO FILL THE VOIDS IN THE PROPOSED MANHOLES, PROVIDE A CONSISTENT SMOOTH SURFACE, AND PROTECT AGAINST SANITARY SEWER GASES. TO BE PRE-APPROVED, A PRODUCT MUST BE SUBMITTED TO THE ENGINEER BY JANUARY 22, 2024 AND SHALL INCLUDE COMPANIES AND MANUFACTURER'S YEARS OF EXPERIENCE, REFERENCE CONTACTS (3 MINIMUM), PREVIOUS PROJECT LIST INCLUDING V.F. OF PRODUCT INSTALLED, AND PRODUCT SPECIFICATIONS.
13. REMOVE AND REPLACE INSIDE DROP PIPING SHALL INCLUDE REMOVING AND SALVAGING THE EXISTING PIPING TO BE REINSTALLED AFTER THE MANHOLE HAS BEEN COMPLETED. THE PIPE SUPPORTS ARE TO INCLUDE A UNI-STRUT BASE ATTACHED TO THE MANHOLE WALL, SHORT SECTION OF UNI-STRUT CONNECTED TO THE BASE AND PIPE BRACKET. PIPE BRACKET SHALL BE RELINER (OR APPROVED EQUAL). ALL MATERIALS, HARDWARE, AND BRACKETS SHALL BE 304 STAINLESS STEEL.
14. LINER TESTING REPAIR SHALL INCLUDE ALL REMOVALS, SUBSURFACE PREPARATION, AND INSTALLATION OF LINER AFTER THE CITY OF GRAND ISLAND HAS PERFORMED ADHESION TESTING AS DETAILED IN ASTM D4541-22 & D7234-22. AT LEAST 8 MANHOLES WILL BE SELECTED AT RANDOM TO BE TESTED. ANY FAILED TEST WILL REQUIRE ADDITIONAL TESTING AT THE COST OF THE CONTRACTOR. A FAILED TEST WILL BE DETERMINED BY THE PRODUCT MANUFACTURERS ADHESION RECOMMENDATIONS. ANY FAILED TEST MAY BE SUBJECT TO A COST DEDUCTION FOR THAT MANHOLE.

Table with 6 columns: MANHOLE ID, RIM ELEV, F.L. ELEV, DEPTH, WALL MATERIAL, BARREL DIA. Lists manhole details for IDs 21 through 86-5.

Table with 6 columns: MANHOLE ID, RIM ELEV, F.L. ELEV, DEPTH, WALL MATERIAL, BARREL DIA. Lists manhole details for IDs B6-6 through H6-6714.

Table with 4 columns: ITEM, DESCRIPTION, UNIT, ESTIMATED QUANTITY. Base BID items including Mobilization, Manhole Frame & Cover, Infiltration Barrier, Liner Testing Repair, etc.

Table with 4 columns: ITEM, DESCRIPTION, UNIT, ESTIMATED QUANTITY. Alternate Bid items including Mobilization, Manhole Frame & Cover, Infiltration Barrier, Liner Testing Repair, etc.

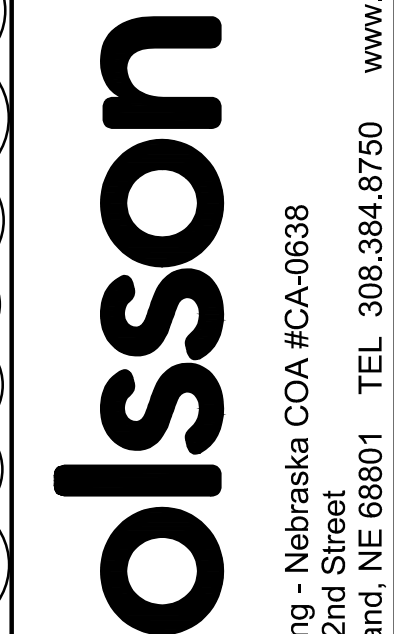


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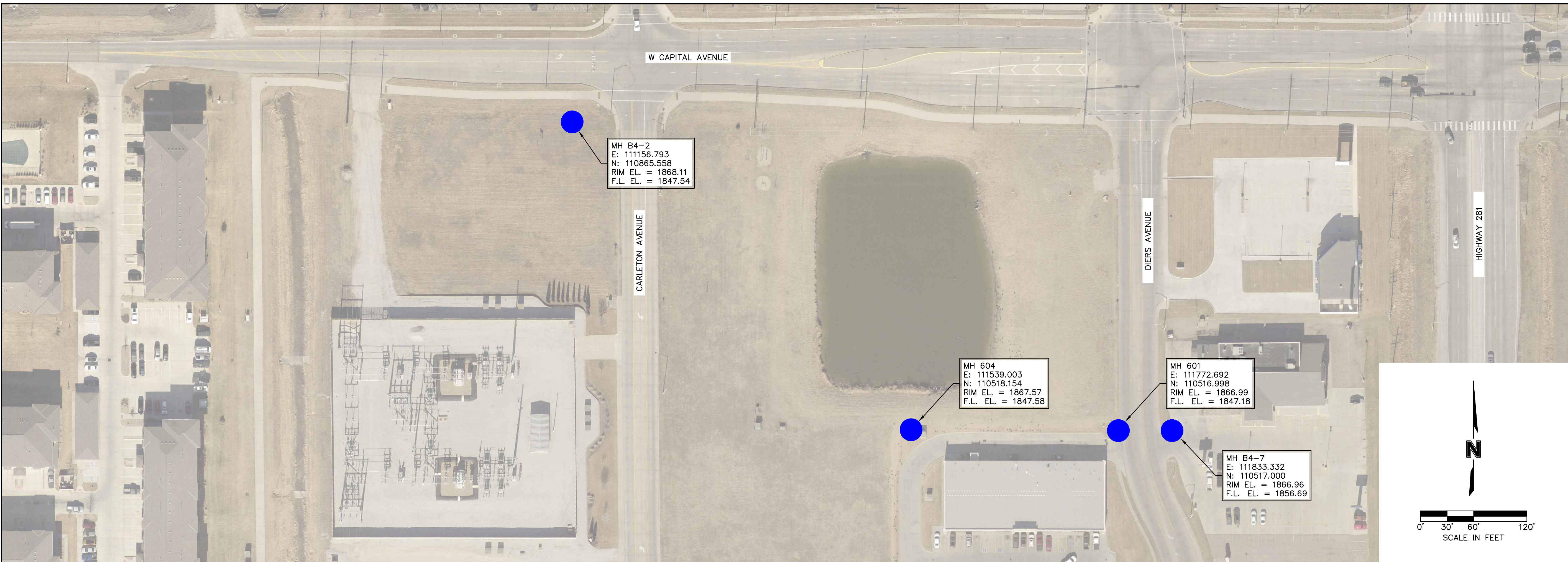
GENERAL NOTES, GRAND ISLAND SANITARY SEWER MANHOLE REHABILITATION, CITY PROJECT 2023-S-10, GRAND ISLAND, NEBRASKA

drawn by: KDG, checked by: BJF, approved by: BJF, QA/QC by: JB, project no.: 023-06594, drawing no.: DECEMBER 2023

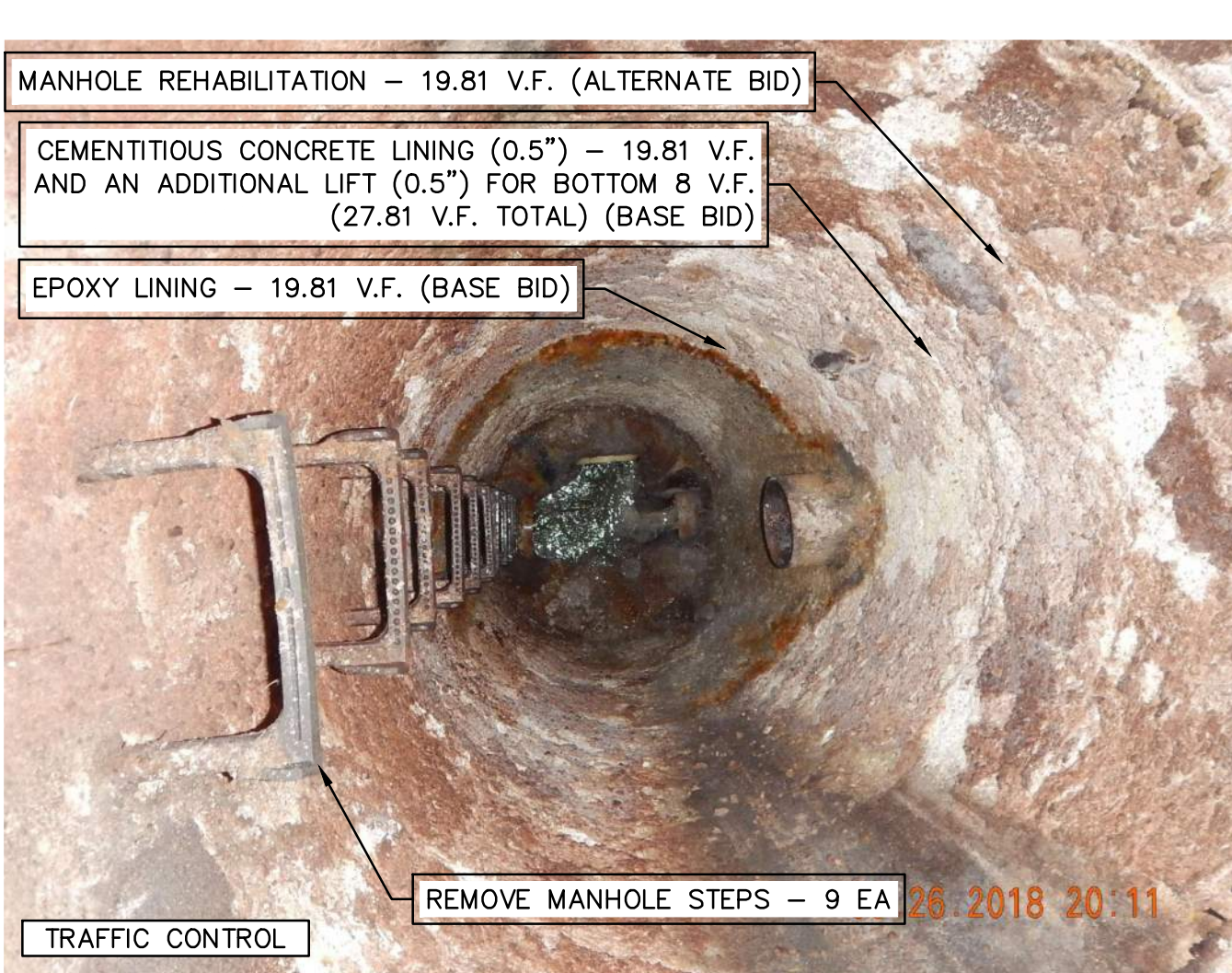
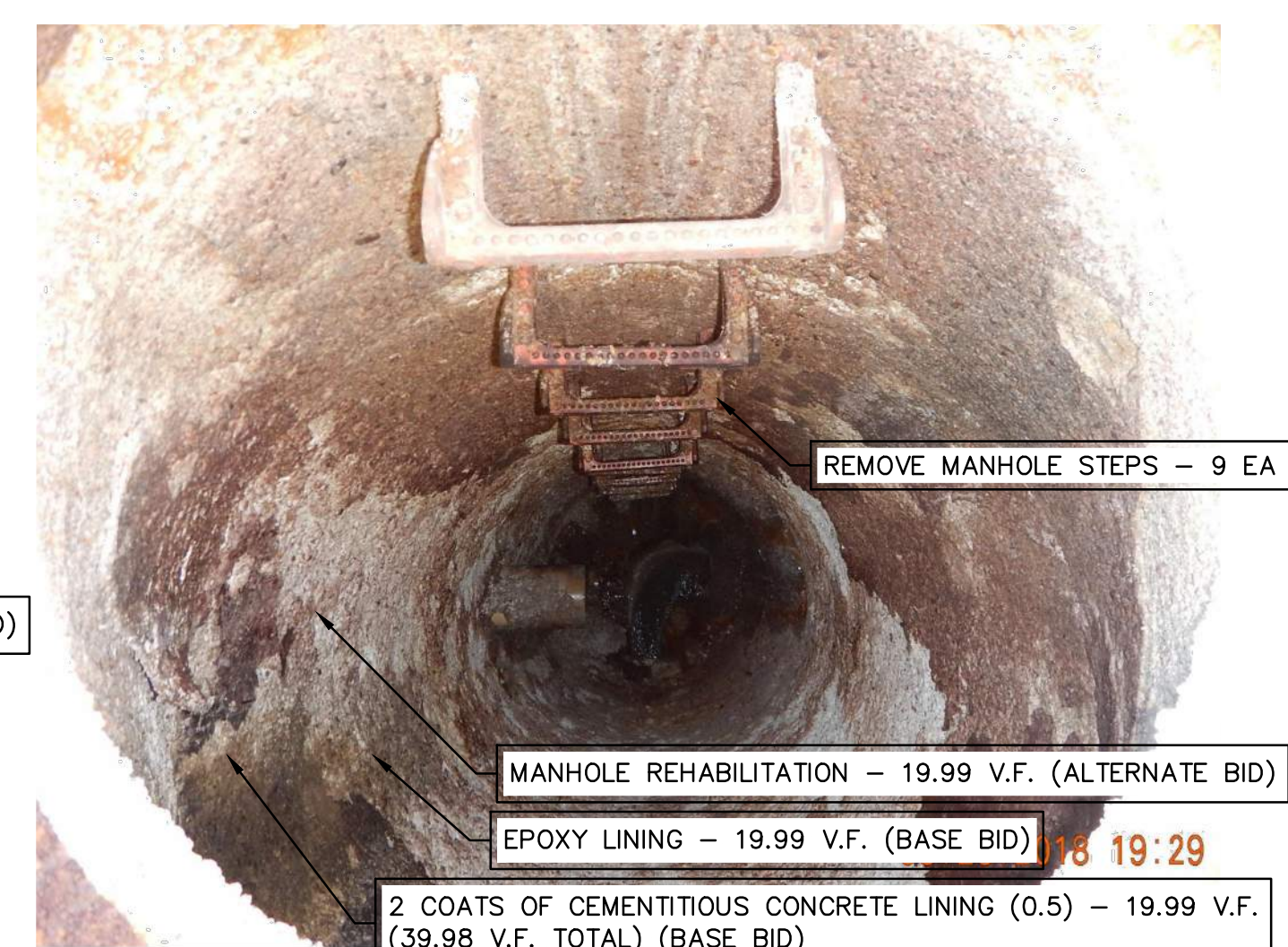
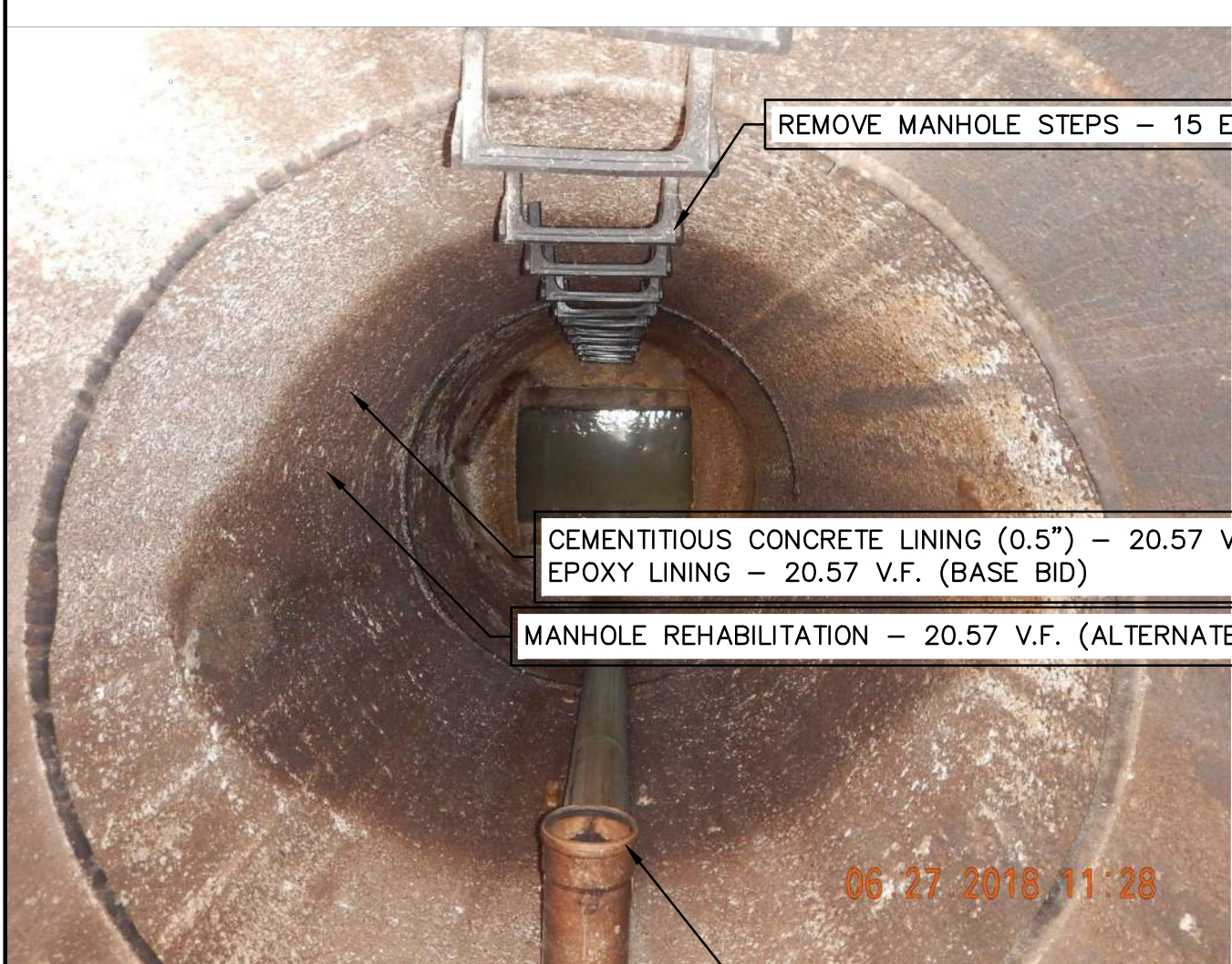
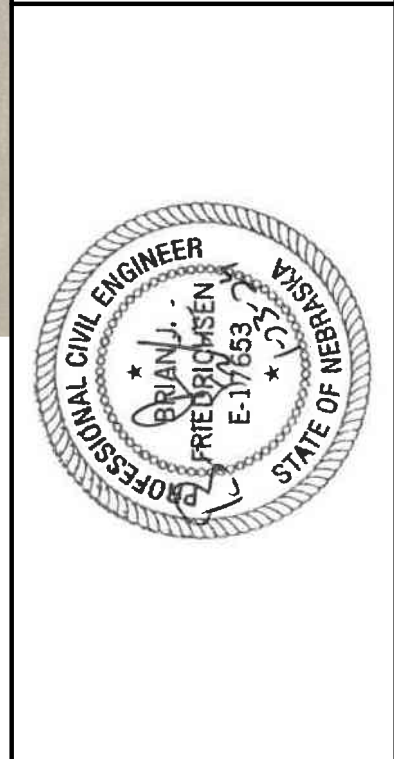
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MH B4-2

MH 604

MH 601

MH B4-7

REMOVE AND REPLACE INSIDE DROP PIPING (6'') AND INSTALL PIPE SUPPORTS (3). PIPE SUPPORTS SHALL BE CONSIDERED SUBSIDIARY TO REMOVE AND REPLACE INSIDE DROP PIPING

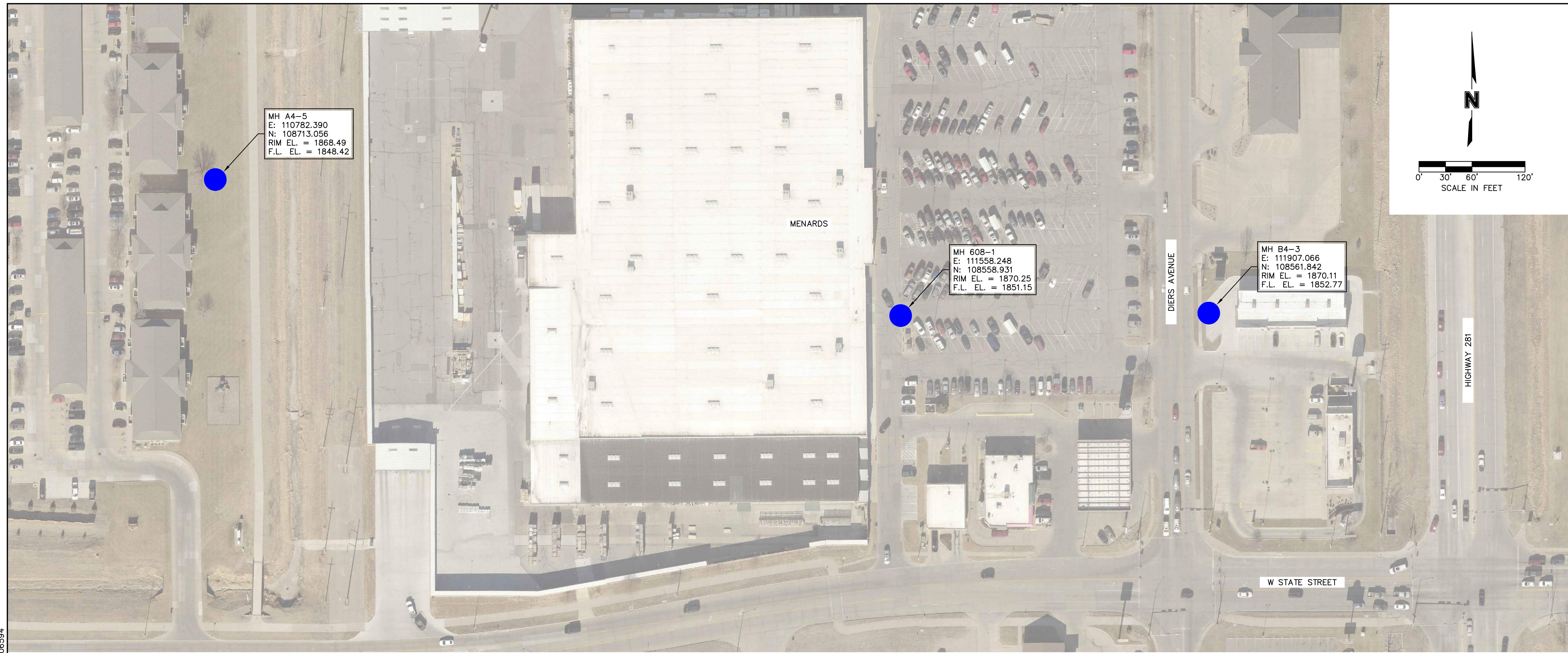
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| 1 | 1-23-2024 | ADDENDUM 1 |

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| MANHOLE REHABILITATION PLAN | 2023 |
| GRAND ISLAND SANITARY SEWER MANHOLE REHABILITATION, CITY PROJECT 2023-S-10 | |
| GRAND ISLAND, NEBRASKA | |

drawn by: KDG
 checked by: BJF
 approved by: BJF
 QA/QC by: JB
 project no.: 023-06594
 drawing no.:
 date: DECEMBER 2023

NOTE: THE MANHOLE PHOTOS MAY BE SEVERAL YEARS OLD. MANHOLE DETERIORATION MAY BE WORSE THAN WHAT IS DEPICTED.

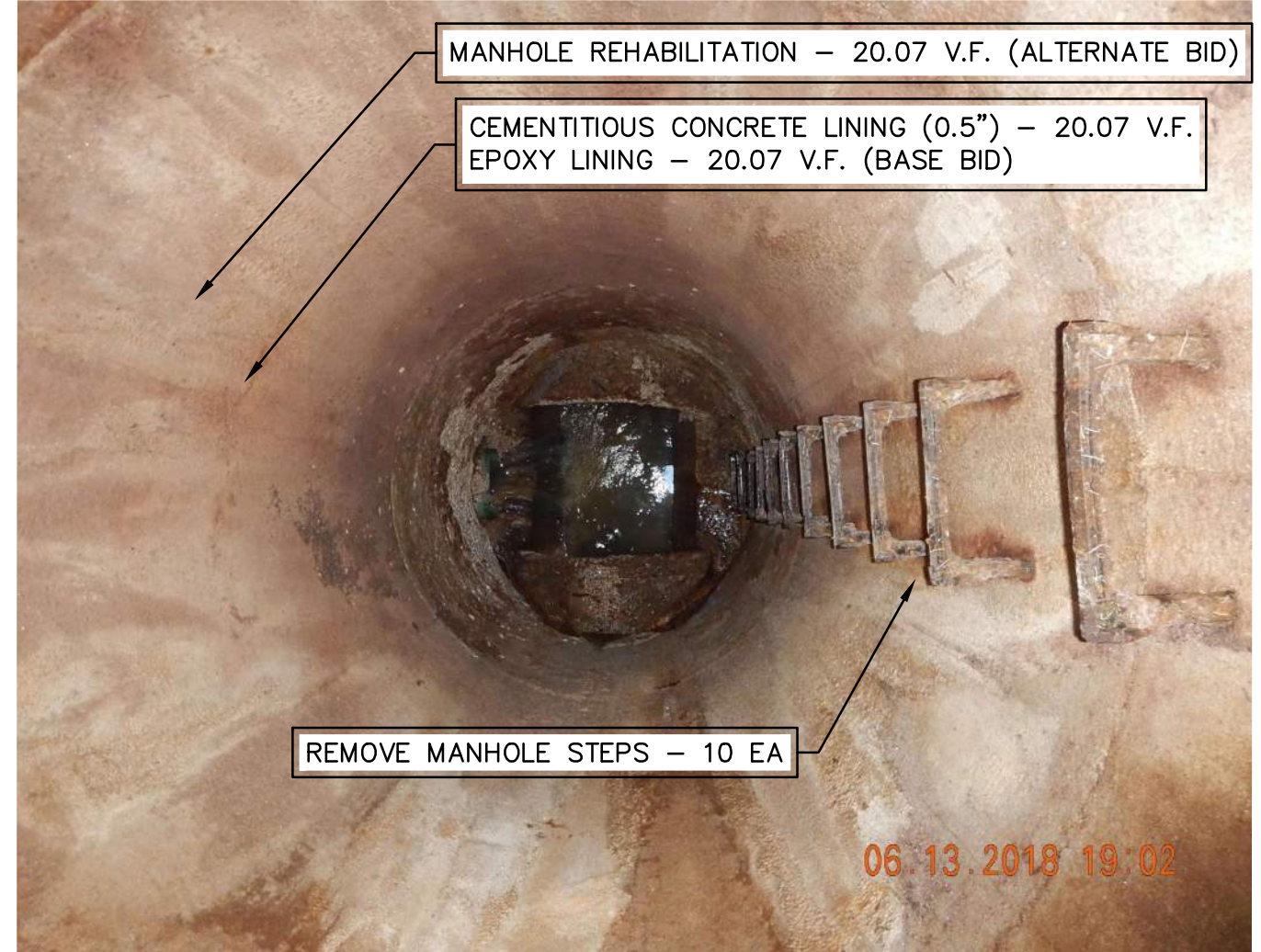
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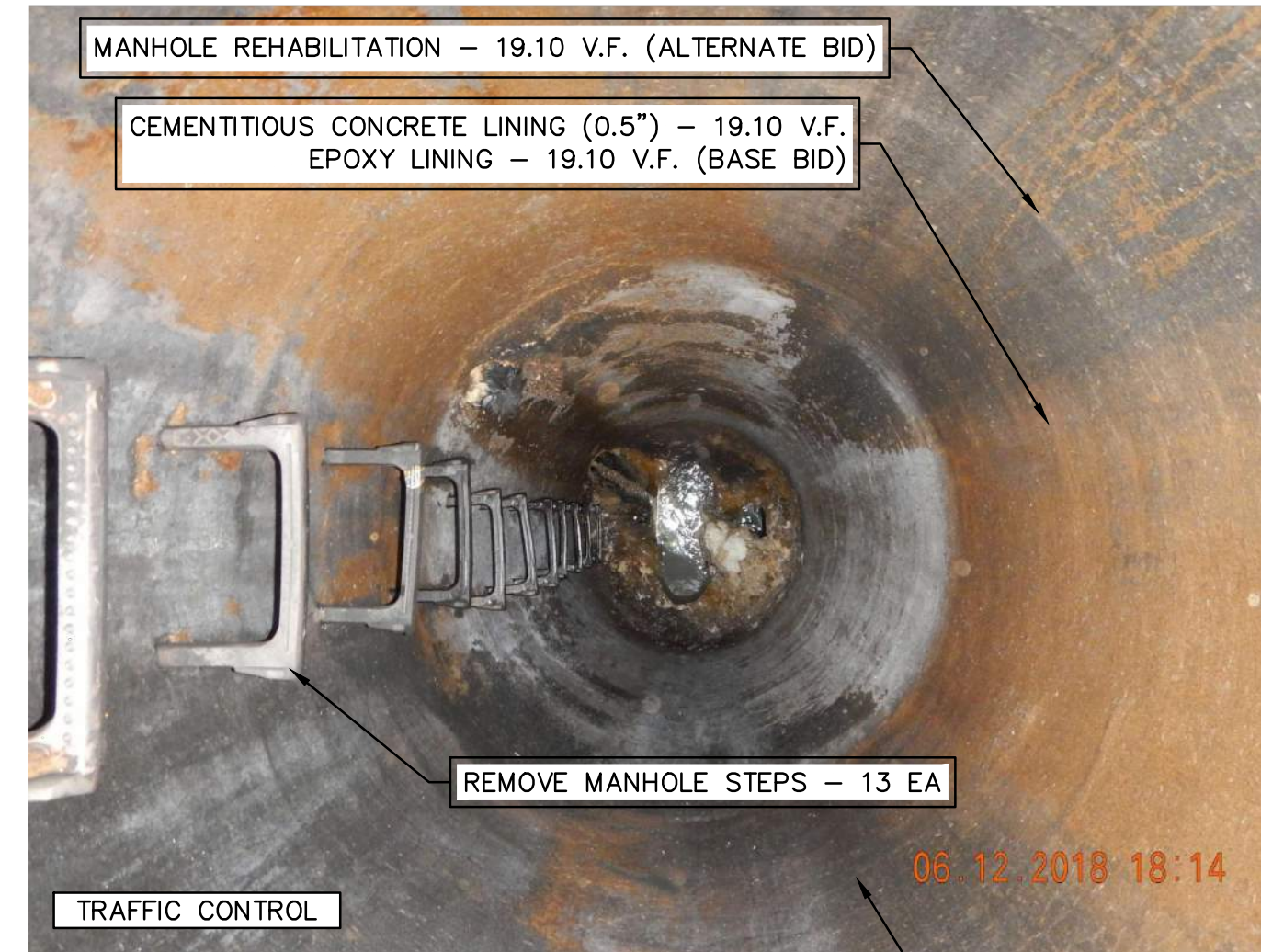
MH A4-5
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 N: 108713.056
 RIM EL. = 1868.49
 F.L. EL. = 1848.42

MH 608-1
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 N: 108558.931
 RIM EL. = 1870.25
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MH B4-3
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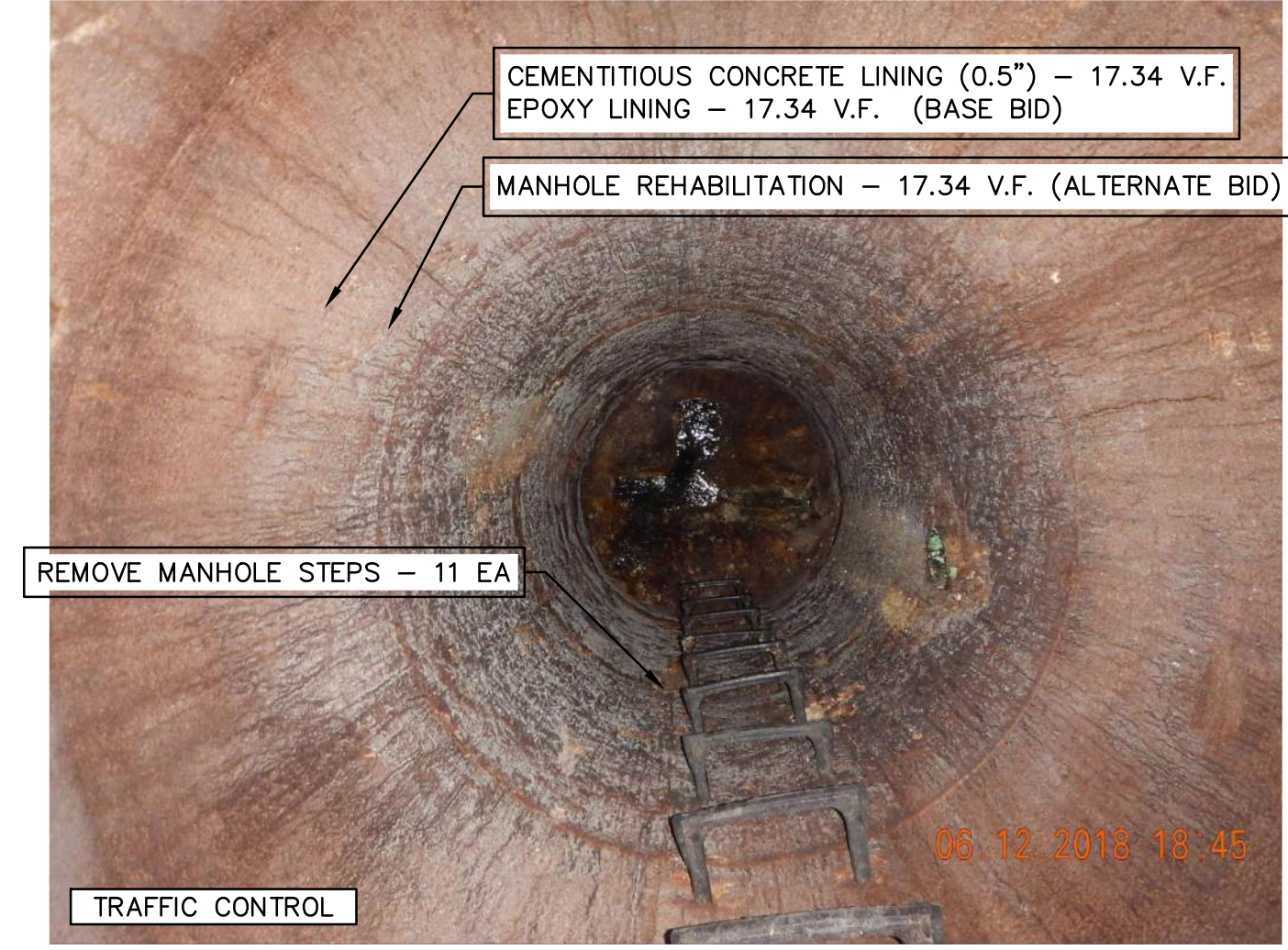


MH A4-5



MH 608-1

PREVIOUS EPOXY LINER
 PRODUCT TO BE REMOVED
 WAS RAVEN LINING SYSTEM



MH B4-3

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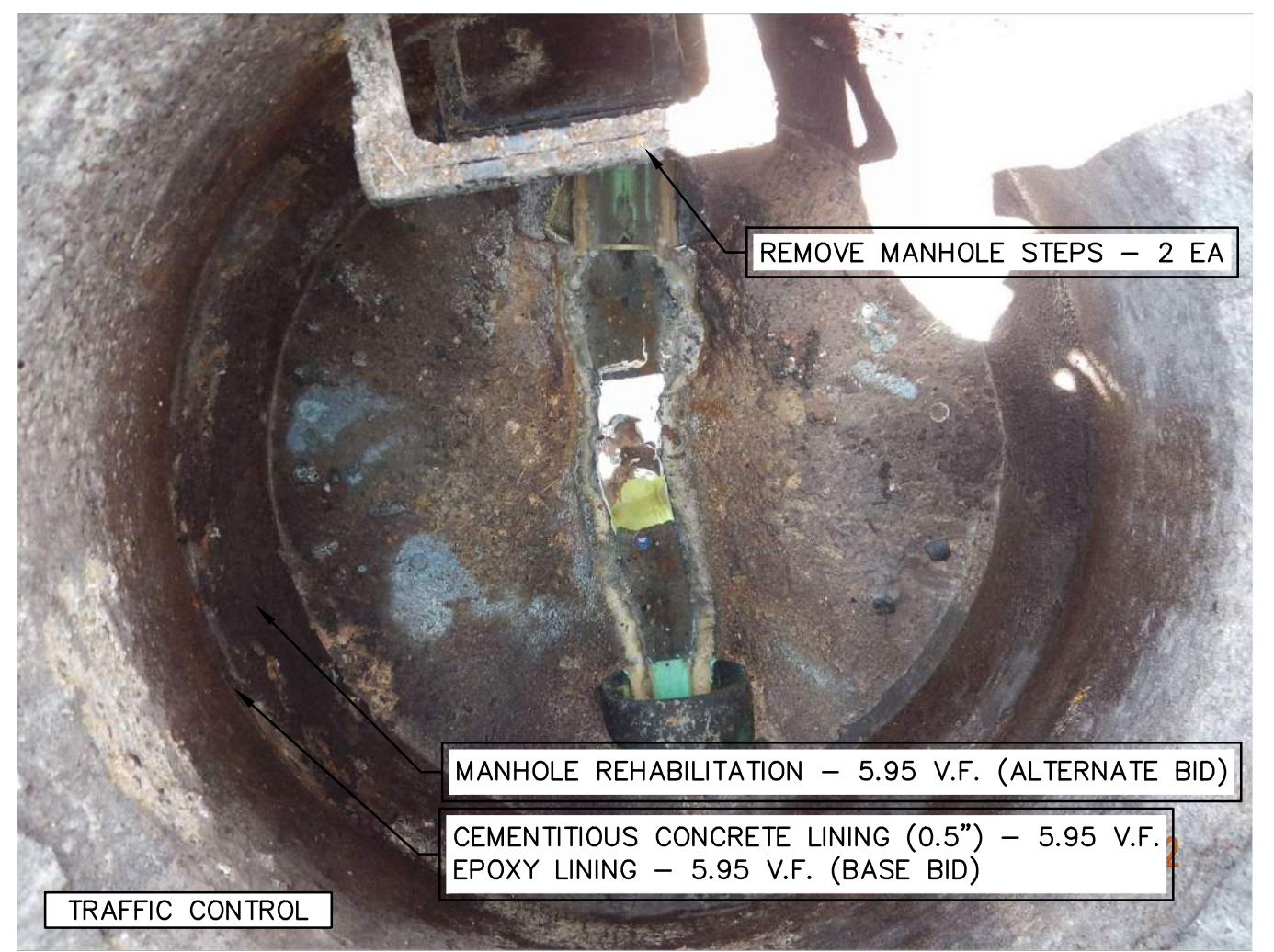
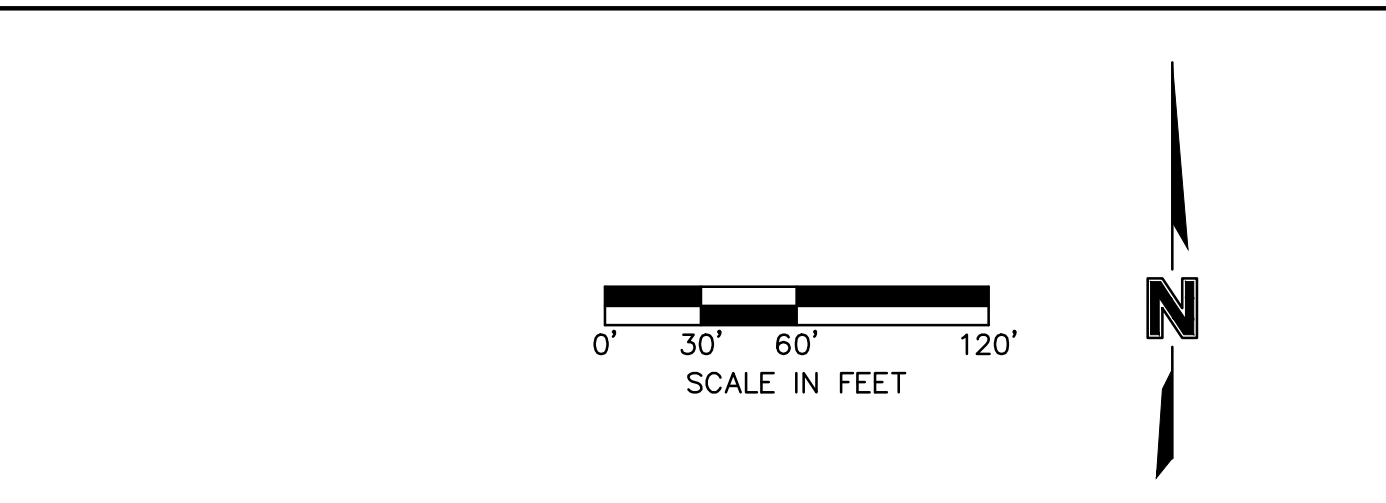
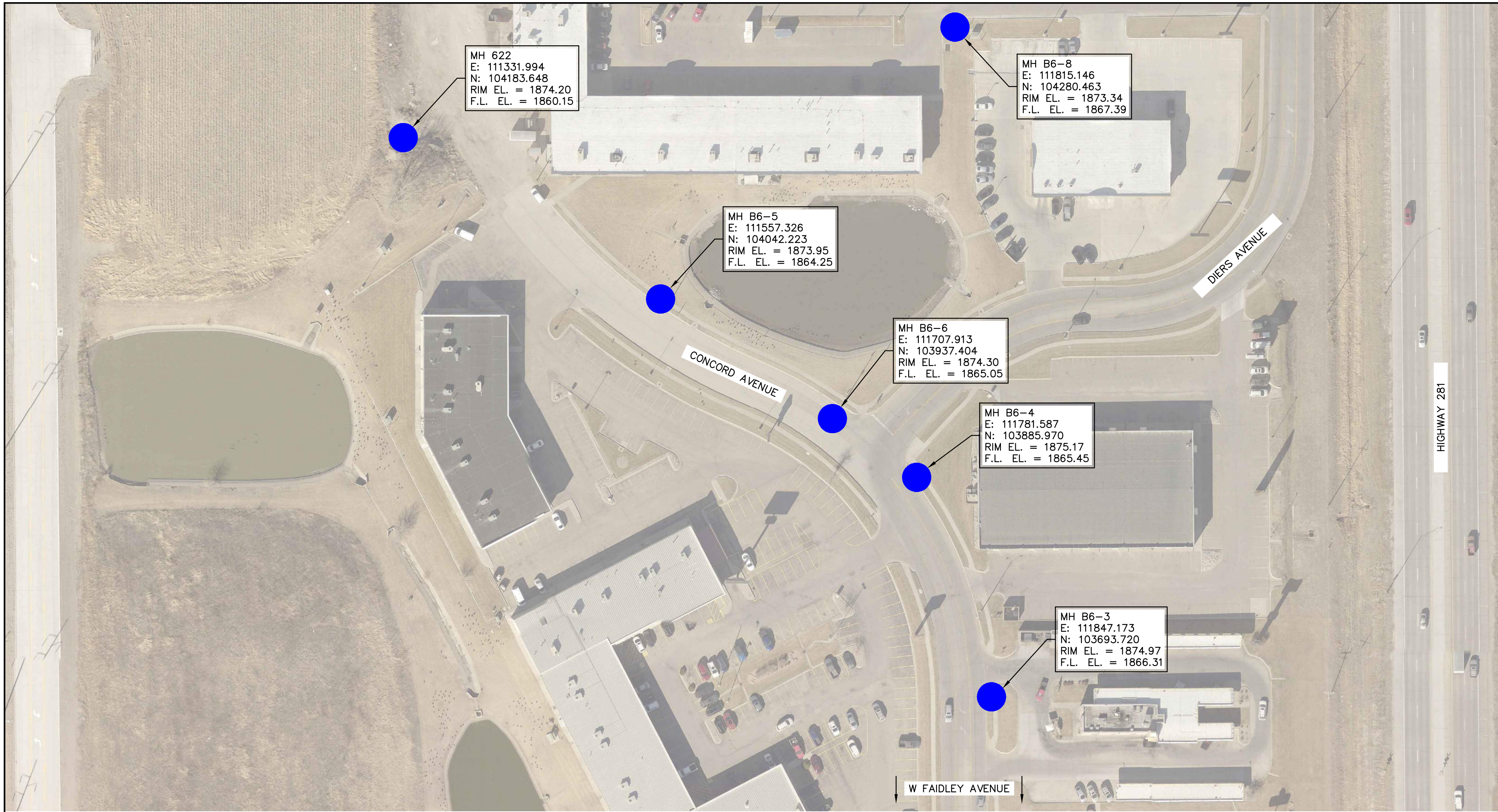
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| MANHOLE REHABILITATION PLAN | 2023 |
| GRAND ISLAND SANITARY SEWER MANHOLE REHABILITATION, CITY PROJECT 2023-S-10 | |
| GRAND ISLAND, NEBRASKA | |

drawn by: KDG
 checked by: BJF
 approved by: BJF
 QA/QC by: JB
 project no.: 023-06594
 drawing no.:
 date: DECEMBER 2023

NOTE: THE MANHOLE PHOTOS MAY BE SEVERAL YEARS OLD.
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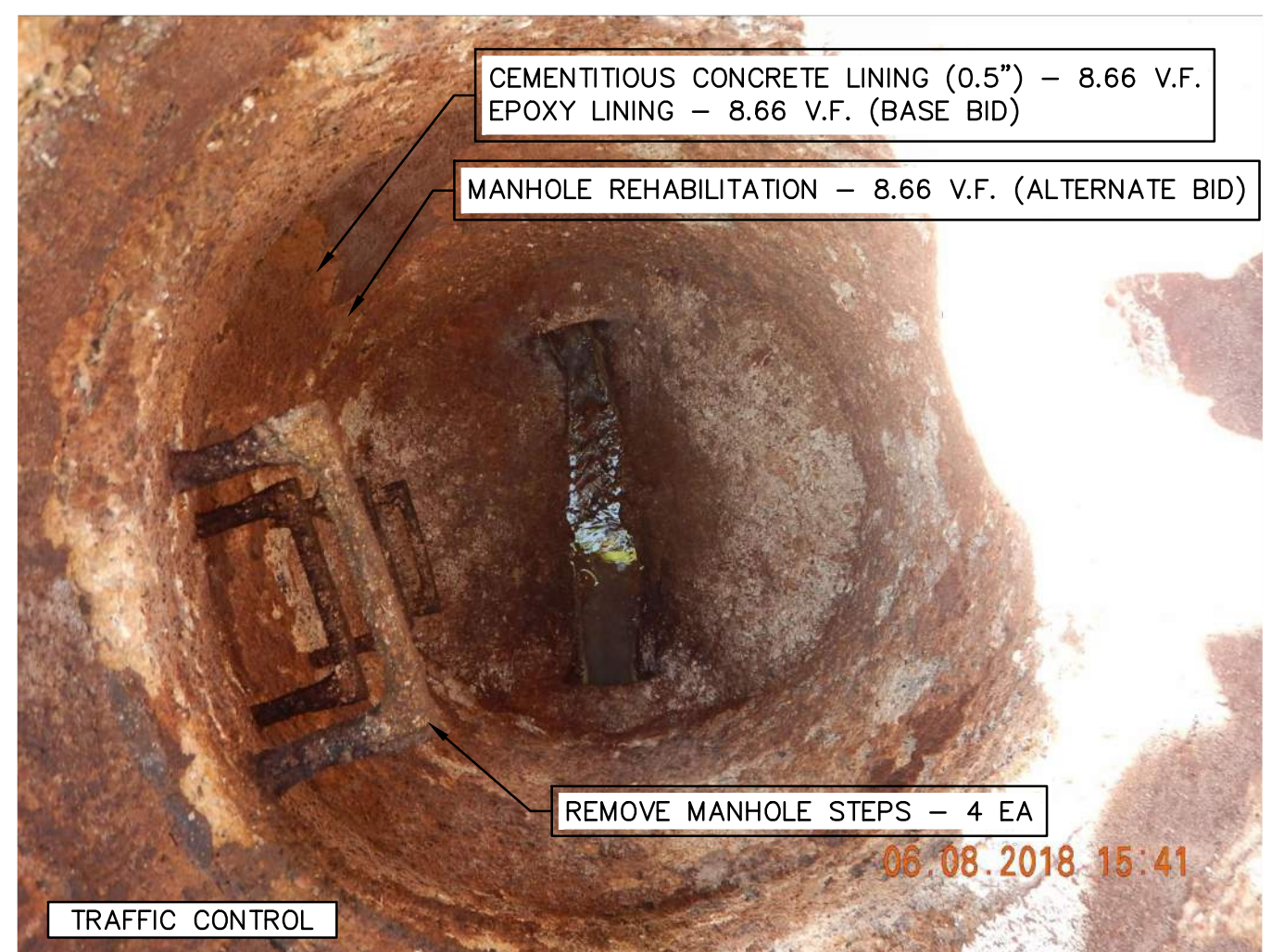
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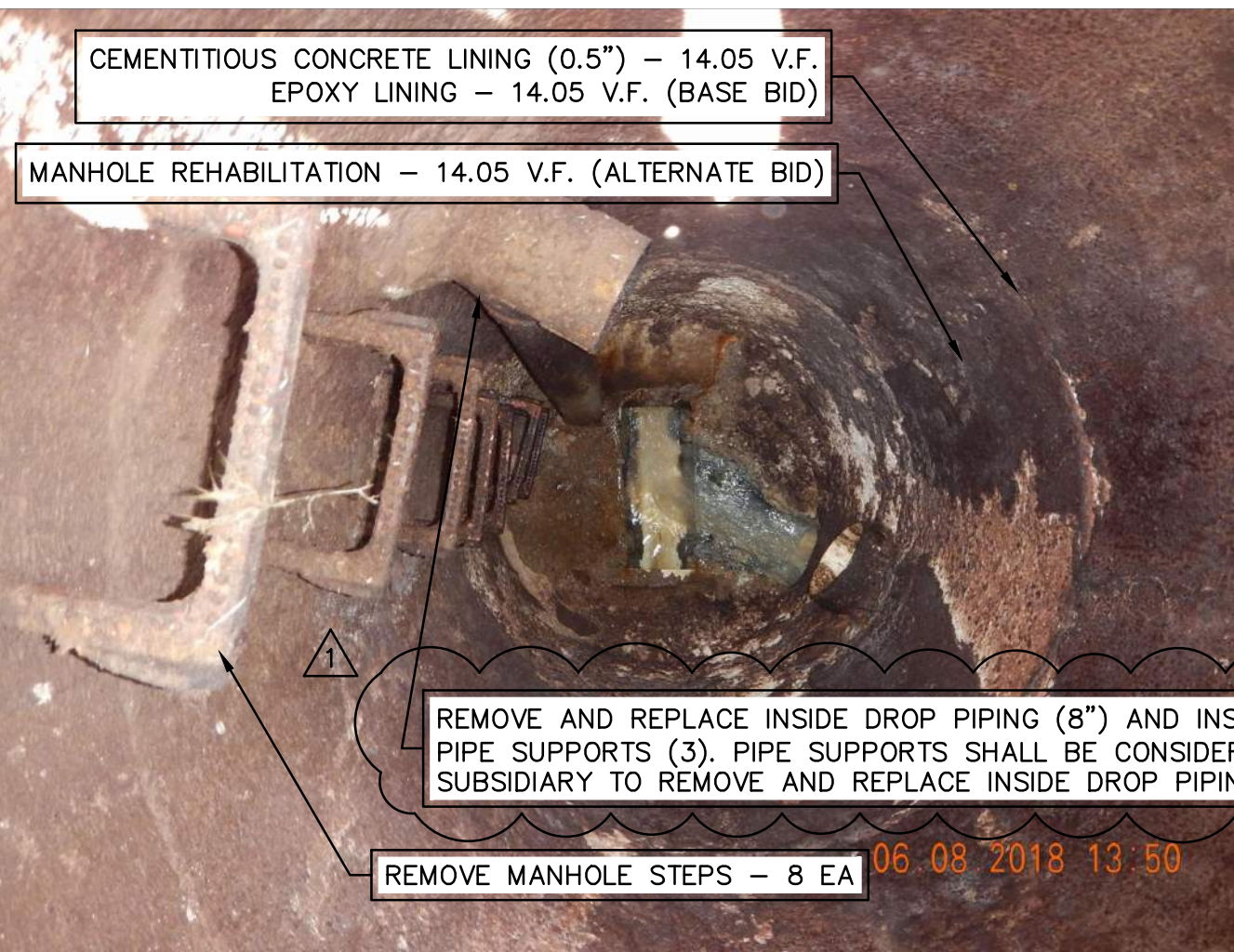
MH B6-8



MH B6-4



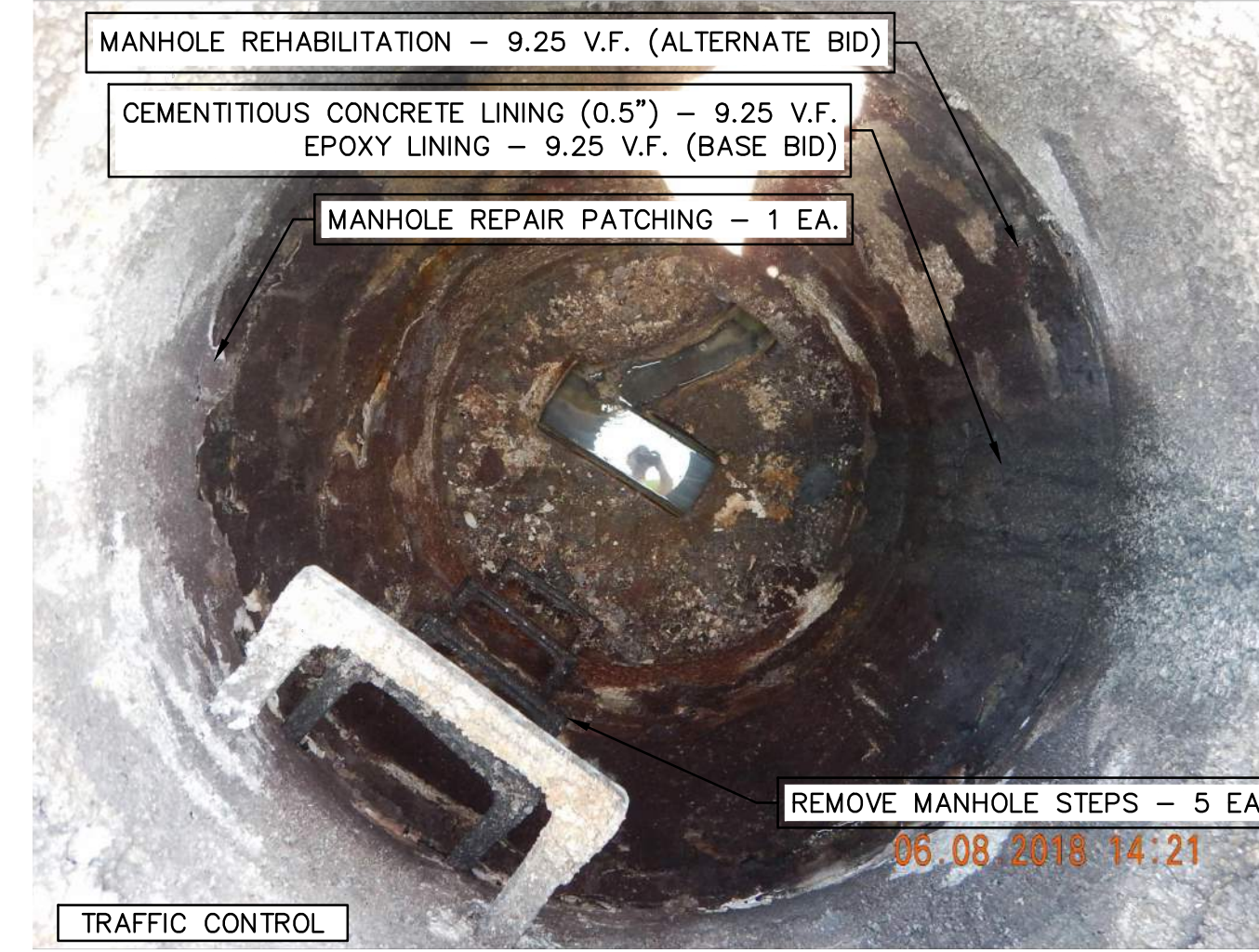
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MH 622



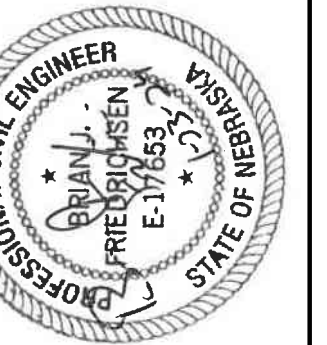
MH B6-5



MH B6-6

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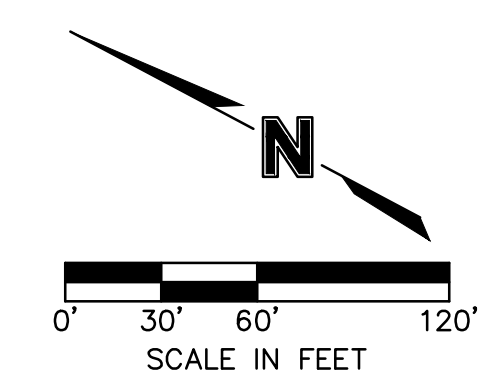
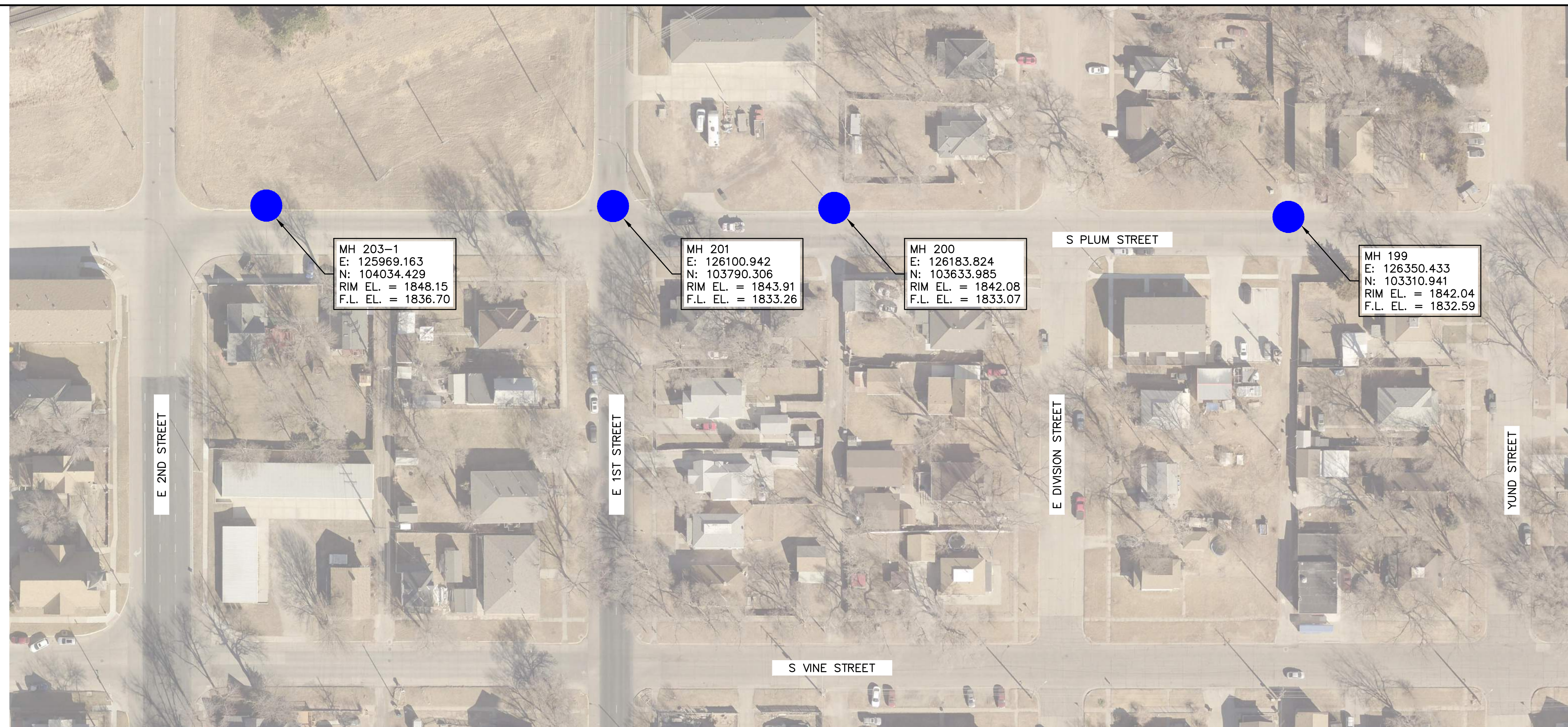
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| 1 | 1-23-2024 | ADDENDUM 1 |

MANHOLE REHABILITATION PLAN
 GRAND ISLAND SANITARY SEWER MANHOLE REHABILITATION, CITY PROJECT 2023-S-10
 GRAND ISLAND, NEBRASKA
 2023

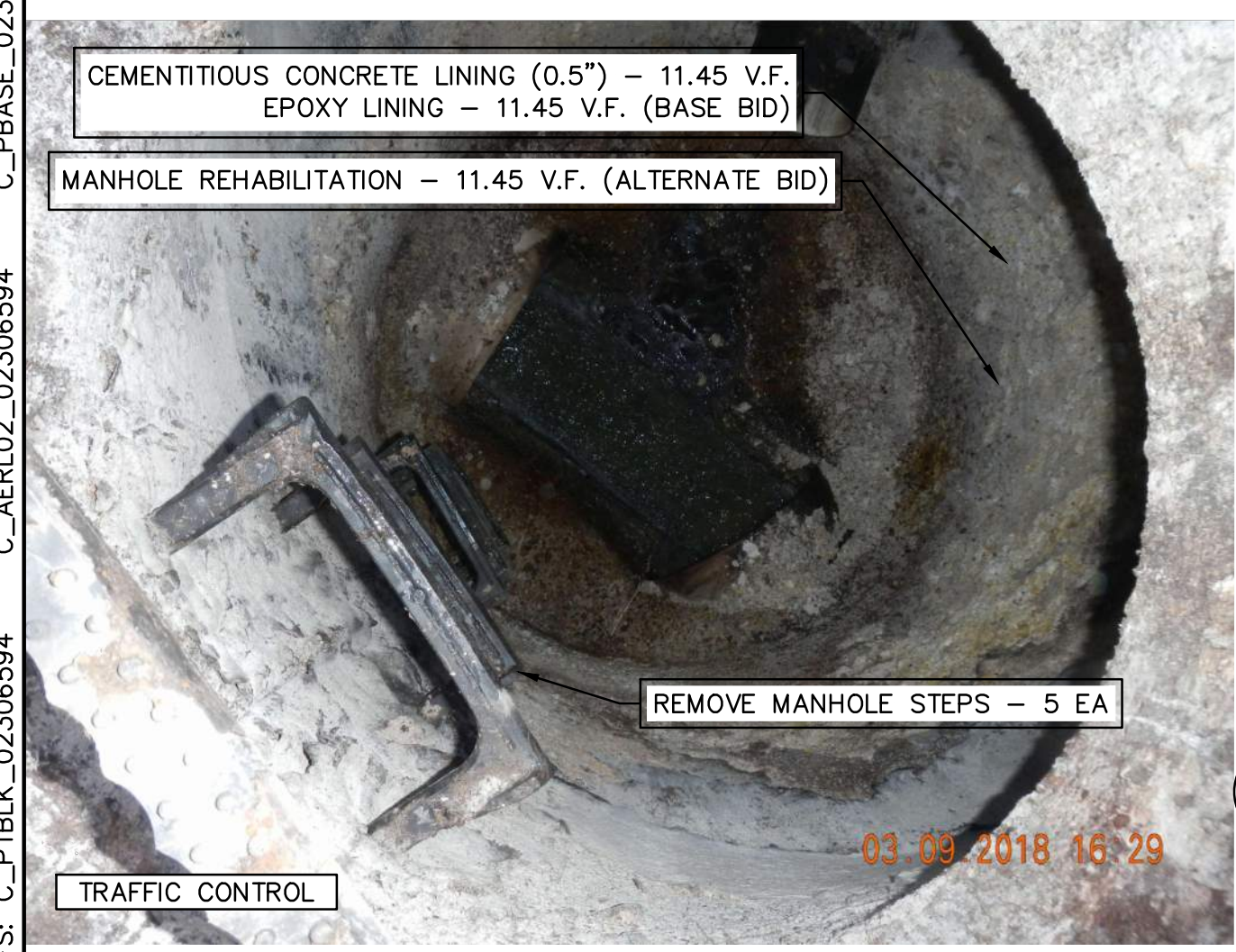
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 checked by: BJF
 approved by: BJF
 QA/QC by: JB
 project no.: 023-06594
 drawing no.:
 date: DECEMBER 2023

NOTE: THE MANHOLE PHOTOS MAY BE SEVERAL YEARS OLD. MANHOLE DETERIORATION MAY BE WORSE THAN WHAT IS DEPICTED.

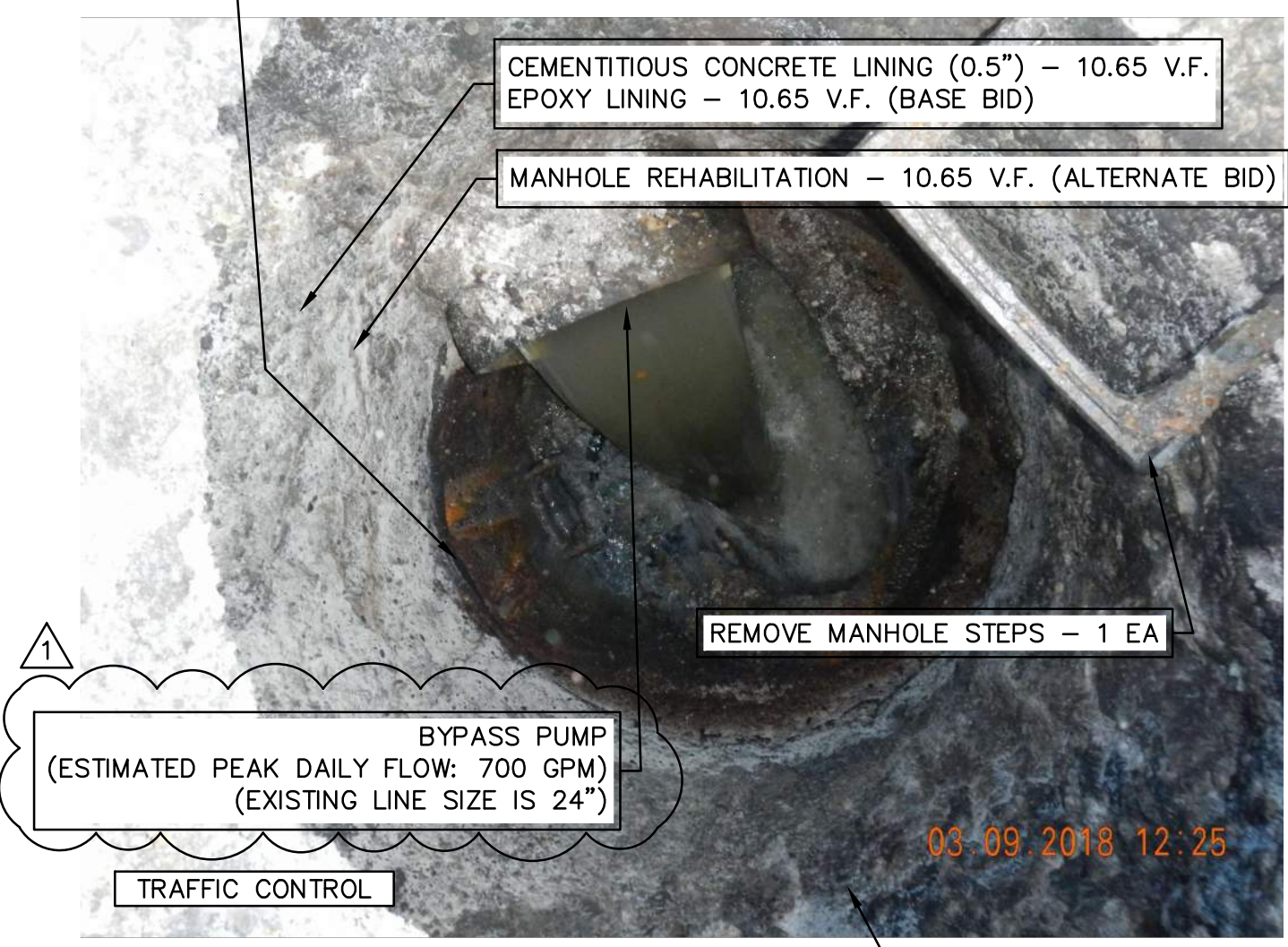
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▲ ADDITIONAL PIPE NOT IN USE TO BE PLUGGED/CAPPED AND LINED OVER. THIS WORK SHALL BE SUBSIDIARY TO THE MANHOLE LINER/REHABILITATION

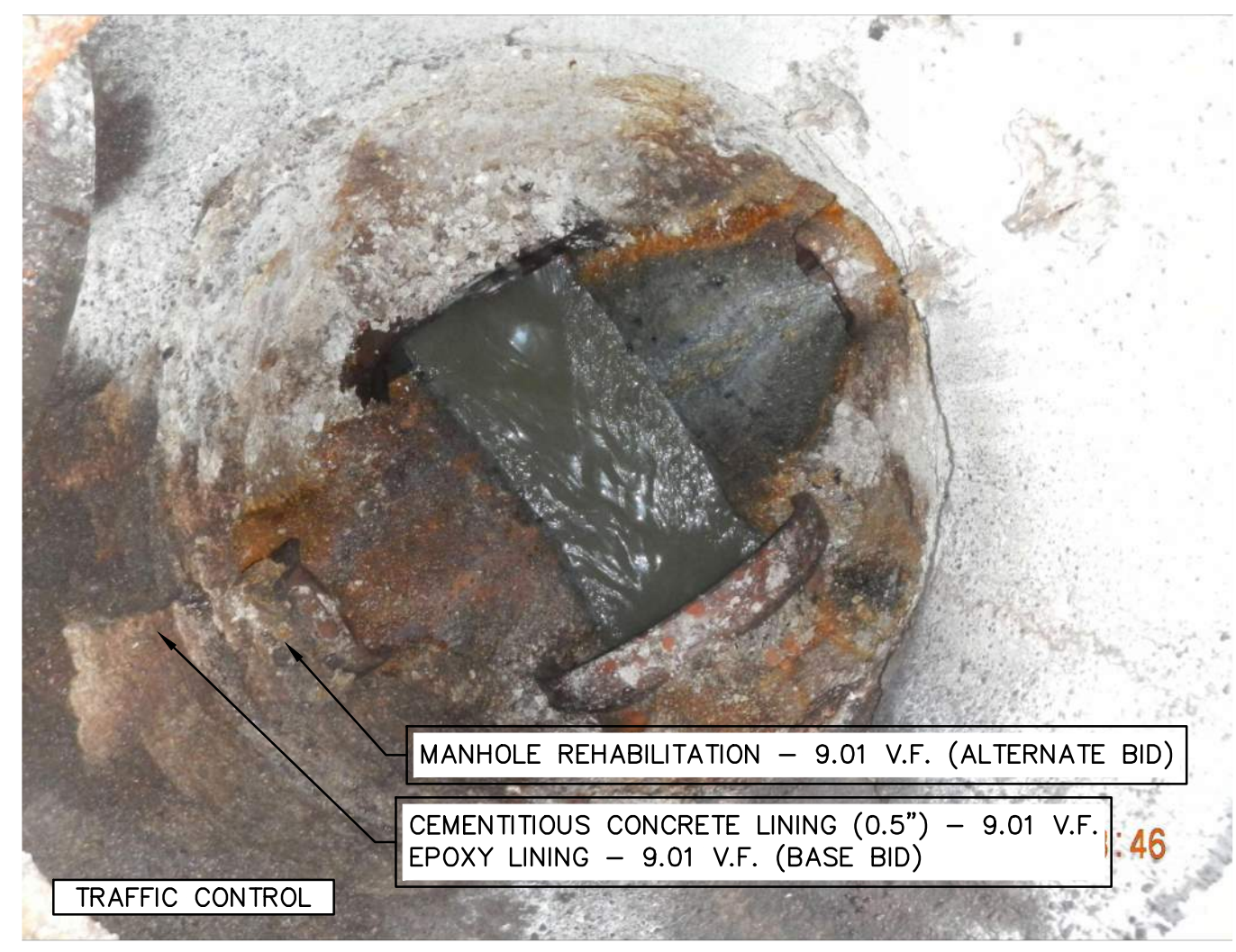


MH 203-1

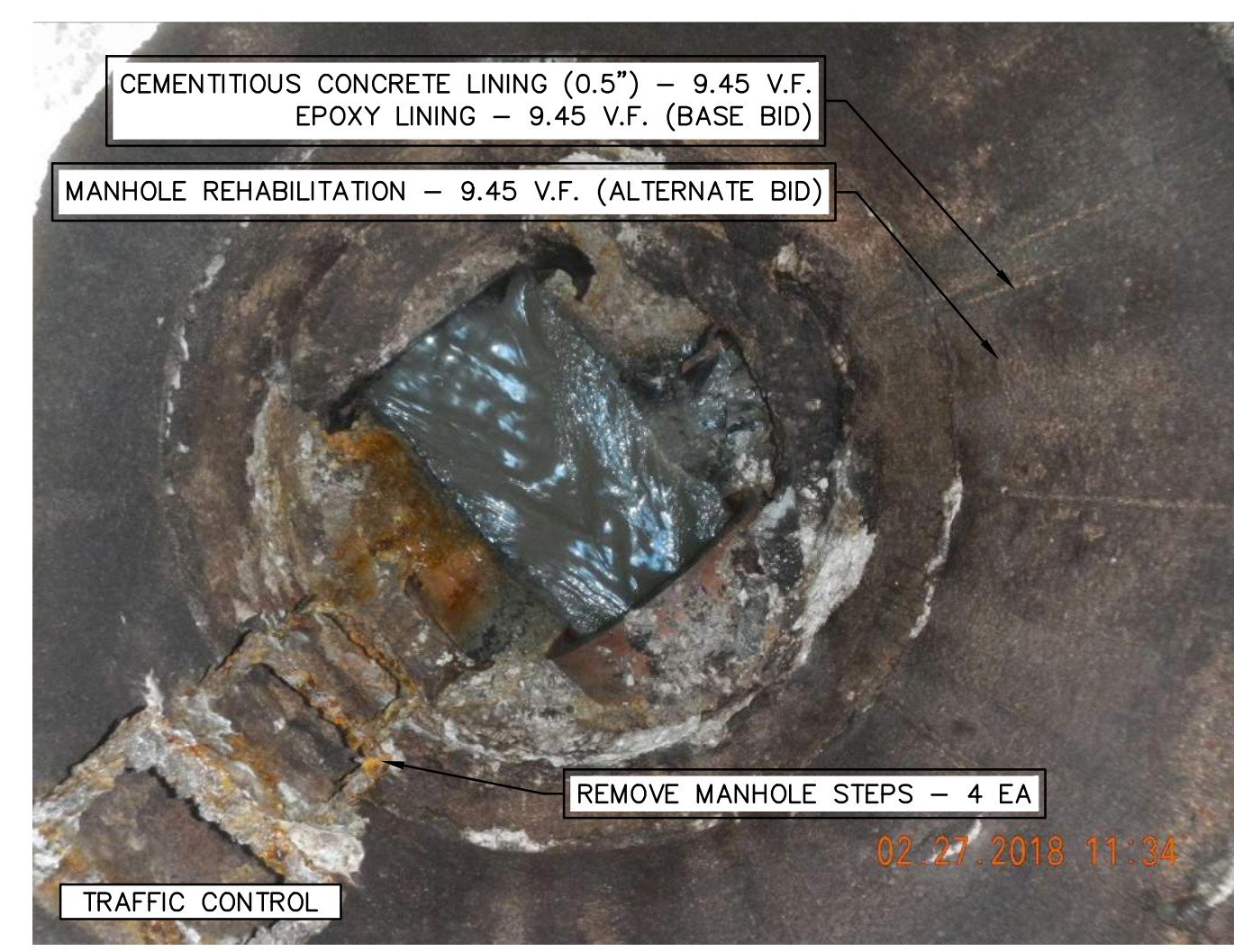


MH 201

▲ CONTRACTOR WILL BE REQUIRED TO USE A FLOW THROUGH PLUG AT THIS MANHOLE DUE TO THE VERTICAL OFFSET OF THE INLET AND OUTLET PIPE. PIPE SIZE IS 24".



MH 200



MH 199

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MANHOLE REHABILITATION PLAN

GRAND ISLAND SANITARY SEWER MANHOLE REHABILITATION, CITY PROJECT 2023-S-10

GRAND ISLAND, NEBRASKA

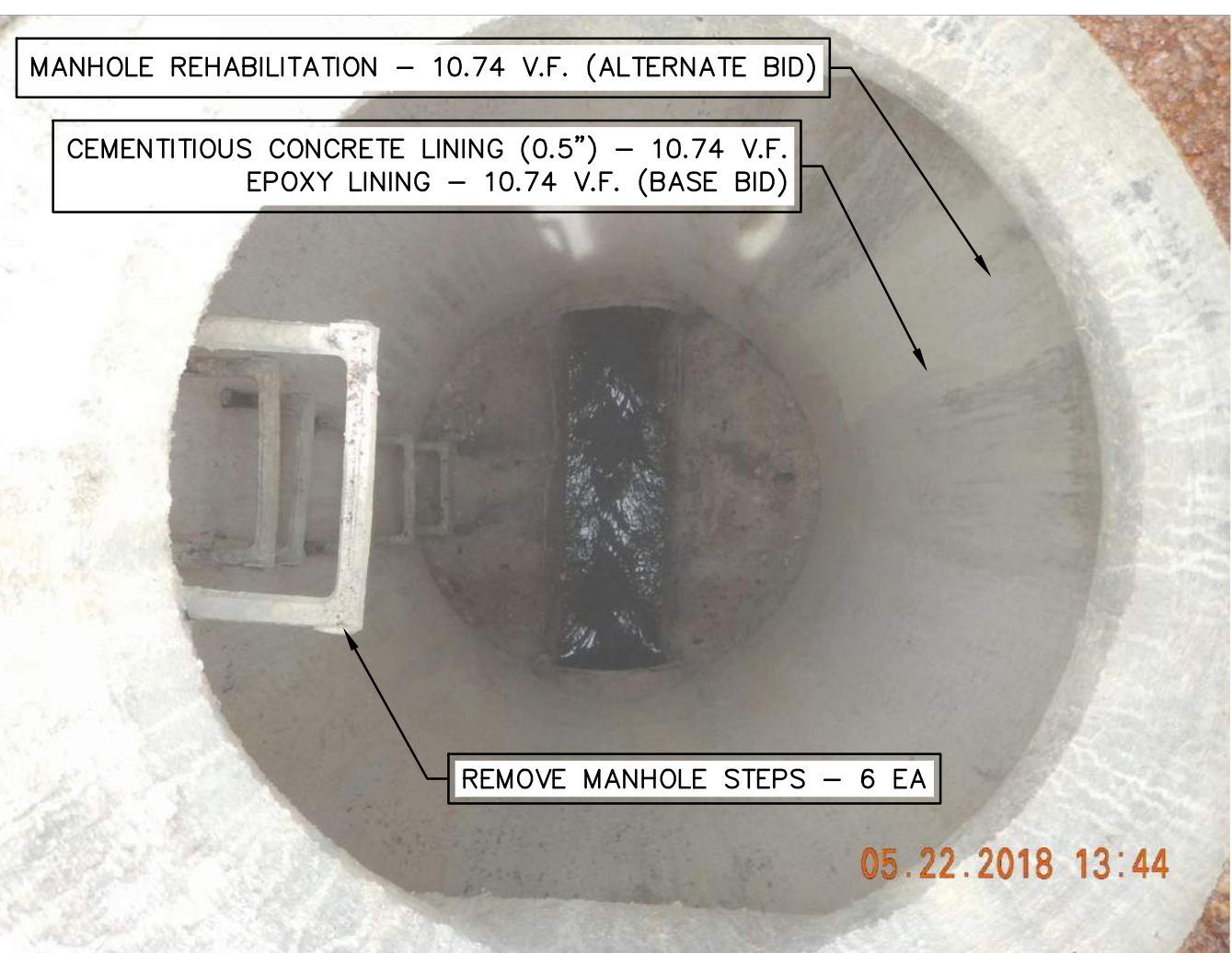
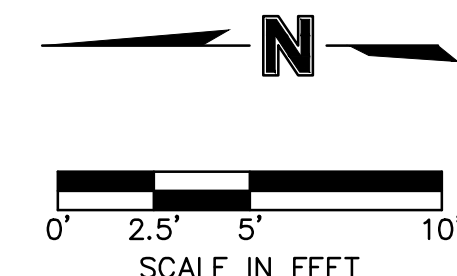
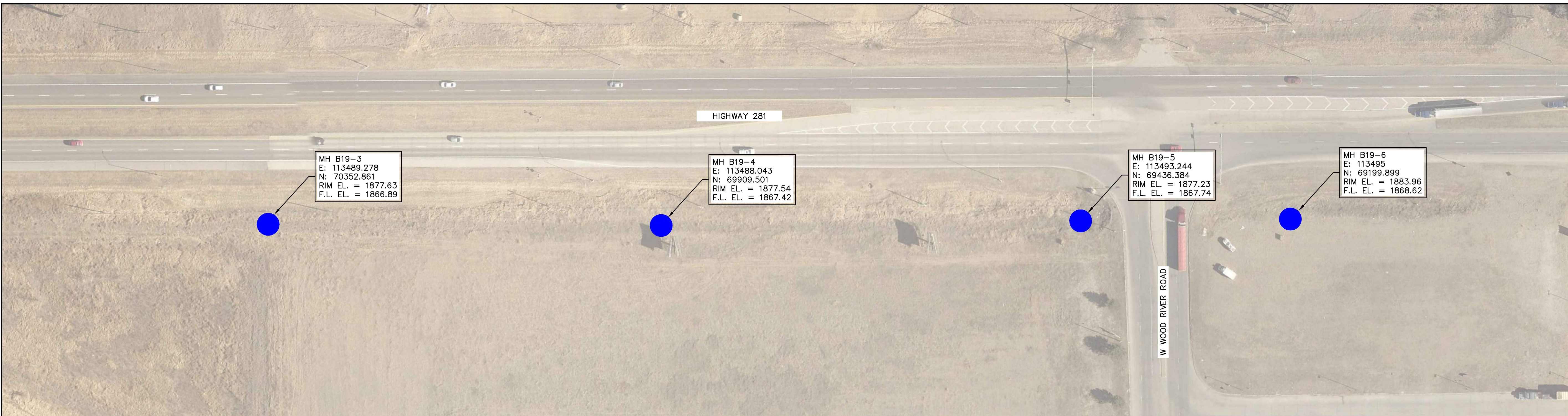
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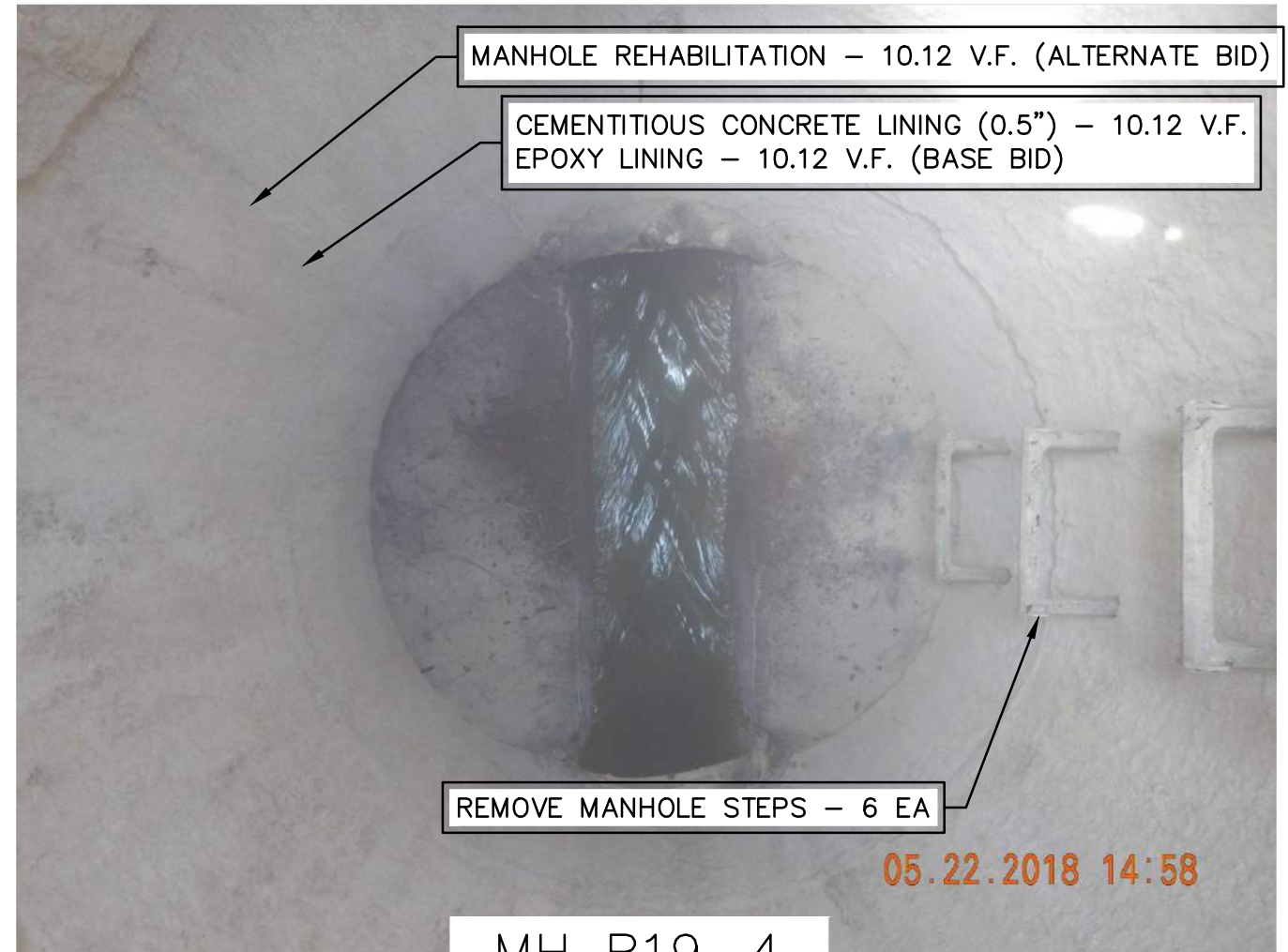
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| QA/QC by: | JB | project no.: | 023-06594 | drawing no.: | |
| date: | DECEMBER 2023 | | | | |

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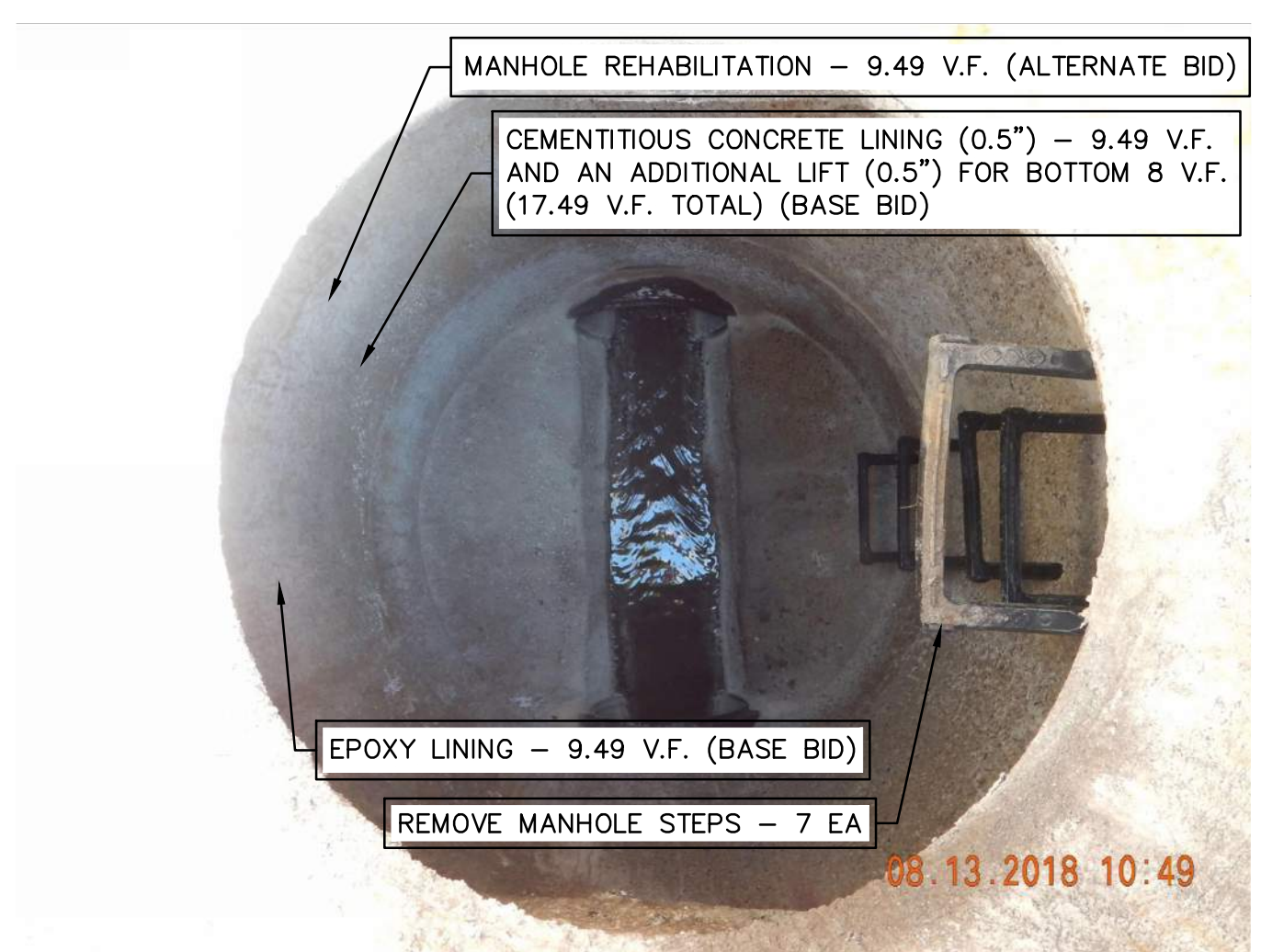
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MH B19-3



MH B19-4



MH B19-5



MH B19-6



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