



**ADDENDUM No. 2**

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Date: June 5, 2026

Project: Hector International Airport  
Terminal Apron Reconstruction – Phase 2

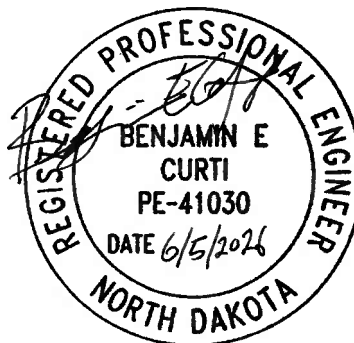
Bid Date and Time: Friday, June 11, 2026, at 10:00 AM local time

This addendum is hereby made a part of the contract documents identified Terminal Apron Reconstruction – Phase 2, Hector International Airport, Fargo, North Dakota, to the same extent as though it were originally included therein. It is essential that prospective bidders note the contents of this addendum and that the Municipal Airport Authority be made aware that the addendum has been received. Therefore, acknowledge receipt by inserting the number of this addendum in the space provided on the Contract Proposal.

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**General**

- 1) Change completion date to August 15, 2027
- 2) Due to issues calling in to the Pre-Bid Conference the requirement of mandatory attendance of the pre-bid conference to submit a bid has been waived.
- 3) Attached are the Pre-bid Conference minutes.
- 4) Revised Cargo Apron Demo Plan for new gate valve installation.
- 5) Revised glycol sewer valve manhole adjustments to install gate valves on existing PVC pipes and replacing existing 3-way plug valves with tees.
- 6) Revised existing valve manhole details for above changes.
- 7) Add specification *NS-004 Valve with Box*.



## **PLANS**

### **1. Sheet C-080 CONSTRUCTION SAFETY & PHASING PLAN - OVERVIEW**

#### A. Changes include:

- I. Change Note 2 to: *"PHASE A – TERMINAL APRON RECONSTRUCTION SHALL BE SUBSTANTIALLY COMPLETED IN 45 CONSECUTIVE CALENDAR DAYS. PHASE A SHALL BE CONSIDERED SUBSTANTIALLY COMPLETE ONCE ALL CONCRETE IS IN PLACE AND THE TERMINAL APRON TAXILANE IS RETURNED TO ITS ORIGINAL CONFIGURATION AND CAN BE USED BY AIRCRAFT."*
- II. Change Note 3 to *"PHASE A – TERMINAL APRON RECONSTRUCTION SHALL BE FULLY COMPLETED IN 60 CONSECUTIVE CALENDAR DAYS BY AUGUST 15, 2027. PHASE A SHALL BE CONSIDERED FULLY COMPLETED ONCE ALL CONCRTE HAS MEET THE SPECIFIED DESIGN STRENGTH, PAINT MARKINGS ARE COMPLETE, THE WORK AREA IS PROPERLY SWEEPED AND CLEANED, AND THE WORK AREA IS RETURNED TO THE OWNER."*

#### B. The sheet will not be reissued.

### **2. Sheet G-081 CONSTRUCTION SAFETY & PHASING PLAN – PHASE A**

#### A. Changes include:

- I. Change Note 17 to: *"CONSTRUCTION CAN START SPRING OF 2027 AND SHALL BE COMPLETED BY AUGUST 15, 2027."*

#### B. The sheet will not be reissued.

### **3. Sheet C-052 DEMOLITION PLAN – CARGO APRON**

#### A. Remove and Replace in its entirety

#### B. Changes include:

- I. Add additional concrete pavement removal for gate valve installation

### **4. Sheet C-432 GLYCOL SEWER VALVE MANHOLE ADJUSTMENTS**

#### A. Remove and Replace in its entirety

#### B. Changes include:

- I. Add gate valves to PVC storm and glycol lines
- II. Add notes 5, 6, and 7
- III. Revise Legend and Key Note 1

### **5. Sheet C-453 EXISTING VALVE MANHOLE REMOVALS**

#### A. Remove and Replace in its entirety

#### B. Changes include:

- I. Add more leaders clarifying removals
- II. Correct existing pipe labels
- III. Add notes 5 and 6

**6. Sheet C-454 VALVE MANHOLES MODIFICATIONS**

- A. Remove and Replace in its entirety
- B. Changes include
  - I. Revise details to show tee installed in existing valve manholes
  - II. Add gate valves on existing pipes to storm drain
  - III. Moved Detail 5 *Existing Valve Manhole 5 Modifications* to new sheet
  - IV. Revised notes

**7. Sheet C-455 VALVE MANHOLES MODIFICATIONS**

- A. Add sheet
- B. Changes include
  - I. Moved Detail 5 *Existing Valve Manhole 5 Modification* from sheet C-454
  - II. Added Detail 6 *Gate Valve Cover Concrete Collar*
  - III. Revised notes

**SPECIFICATIONS**

**1. Division 1, Advertisement for Bids**

- A. Changes include:
  - i. Revise the 7<sup>th</sup> Paragraph to, *“Phase A Terminal Apron Reconstruction is to take place over 60 consecutive calendar days and shall be completed by August 15, 2027.”*
  - ii. Pre-bid Conference, delete the sentence *“Firms intending to submit a bid must have one representative employed by the firm on the call.”*
- B. The specification section will not be reissued.

**2. Division 1, Instructions to Bidders: 5. Pre-bid Conference**

- A. Changes include:
  - i. Delete the sentence *“Firms intending to submit a bid must have one representative employed by the firm on the call.”*
- B. The specification section will not be reissued.

**3. Division 2, Bid Documents: Bid Schedule**

- A. Remove and replace in its entirety
- B. Changes include:
  - I. Revise quantities for item “CONCRETE PAVEMENT REMOVAL, FULL DEPTH” from 12,265 SY to 12,303 SY.
  - II. Revise quantities for item “PORTLAND CEMENT CONCRETE PAVEMENT, 16.5-INCH DEPTH (REINFORCED)” from 2,000 SY to 2,038 SY.
  - III. Delete item “INSTALL 3-WAY PLUG VALVE IN EXISTING MANHOLE”
  - IV. Add item “INSTALL 10”X10”X10” TEE IN EXISTING MANHOLE”
  - V. Add item “INSTALL 12”X12”X12” TEE IN EXISTING MANHOLE”
  - VI. Add item “INSTALL 16”X16”X16” TEE IN EXISTING MANHOLE”
  - VII. Add item “10” GATE VALVE WITH BOX AND CONCRETE COLLAR”
  - VIII. Add item “12” GATE VALVE WITH BOX AND CONCRETE COLLAR”

- IX. Add item “16” GATE VALVE WITH BOX AND CONCRETE COLLAR”
- X. Add item “18” GATE VALVE WITH BOX”

**4. Division 3, Contract Agreement**

- A. Changes include:
  - I. Revise completion date in the first paragraph of the Time of Performance – Liquidated Damages section to *August 15, 2027*
- B. The specification section will not be reissued.

**5. Division 4, Section 80 Execution and Progress 80-08 Failure to Complete on Time**

- A. Changes include:
  - a. Revise row 2 column 3 of the table to: *45 consecutive calendar days for Substantial Completion and 60 consecutive calendar days and before August 15, 2027 for Final Completion*
- B. The Specification section will not be reissued.

**6. Division 6, Construction Safety and Phasing Plan**

- A. Changes include:
  - a. Change all references to a completion date of August 27, 2027 to August 15, 2027.
- B. The specification section will not be reissued.

**7. Division 8, Item D-751 Manholes Catch Basins, Inlets and Inspection Holes 751-5.1**

- A. Changes include:
  - i. Delete Pay Item “D-751-5.3 Install 3-Way Plug Valve in Existing Manhole – per each”
  - ii. Add Pay Item “D-751-5.3 Install 10”x10”x10” Tee in Existing Manhole – per each”
  - iii. Add Pay Item “D-751-5.4 Install 12”x12”x12” Tee in Existing Manhole – per each”
  - iv. Add Pay Item “D-751-5.5 Install 16”x16”x16” Tee in Existing Manhole – per each”
- B. The Specification section will not be reissued.

**8. Division 9, Non-Standard Specifications**

- A. Add Specification *NS-004 Valve with Box*

**ATTACHMENTS**

- Pre-Bid Conference Agenda Minutes
- Sheet C-052R
- Sheet C-432R
- Sheet C-453R
- Sheet C-454R
- Sheet C-455
- Revised Bid Schedule
- NS-004 Valve with Box

**END OF ADDENDUM 2**



## Pre-Bid Conference

Meeting minutes indicated in **red text**. The minutes represents the writer's interpretation of items discussed during the meeting and clarification made after the meeting.

Project name: Terminal Apron Reconstruction – Phase 2  
Project location: Hector International Airport      Owner: Municipal Airport Authority  
Date: May 28, 2026 – 11:00 am

Pre-Bid Conference agenda will address the following items:

### 1. Introductions & Attendance

*See attached sign-in sheet*

### 2. Project Overview

#### A. Phase A – Terminal Apron Reconstruction

- Completion Time: 45 days (Substantial completion), 60 days (Final completion)
  - **To reopen the Terminal Apron Taxilane to its original configuration the four (4) north paving lanes shown on sheet C-321 shall have a PCC flexural strength of at least 605 PSI.**
- Access/Gate Guard
- Staging Area
- Barricades, Marking Removal, and Temporary Markings
- Terminal Apron Haul Road
- Aircraft RON Parking
- Sweeping and FOD
- Tug access
- Boarding bridges 5 & 6

#### B. Phase B – Glycol Valve Improvements

- Completion Time: by October 2, 2027
- Barricades and working area(s)
- Cargo Apron Access & Gate Guard
- Sweeping and FOD
- Staging Area

### 3. Misc

- Badging (AOA & SIDA)
- Vehicles and equipment shall have working beacons and/or orange and white checked flags
- MH to provide construction staking.
- Buy American/DBE

#### **4. Questions & Answers**

**1) Can brooms have steel bristles or polymer bristles?**

*Polymer.*

**2) To meet substantial completion can the Terminal taxiway centerline be temporary?**

*Yes, the permanent application can be done under escort by the airport.*

**3) Does the temporary centerline need black borders?**

*Black borders are not required on temporary centerline(s).*

**4) When can construction start on the Terminal Apron?**

*The constraining factor to start of construction is the rehabilitation of the west half of the Terminal building. Rehabilitation work is scheduled to be complete in March 2027. Weather permitting, the contractor may start construction once the west half of the Terminal building reopens in Spring 2027.*

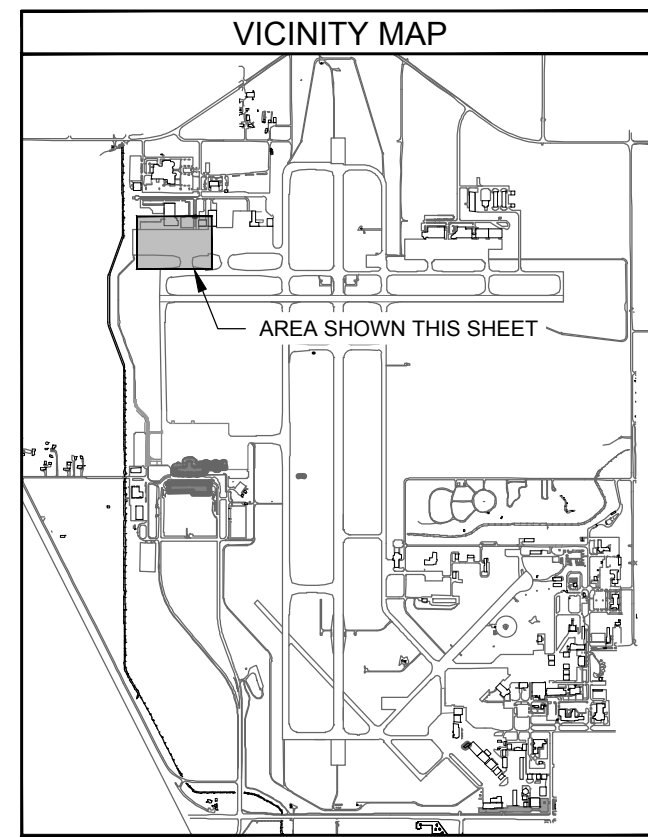
**5) What is the bid hold period and contract timeline?**

*Per the project specifications the bid hold period is 60-days. Once bids are opened, the grant application will be submitted to the FAA, the typical timeline for grants is 30-60 days. It is anticipated the airport will receive their grant in August 2026. Once the grant is received the Notice of Award and contracts will be sent out for signatures.*

**6) Is any DBE documentation required at the bid opening?**

*No DBE documentation is required at the bid opening. Per the project specifications the requirements of 49 CFR Part 26 including amendments thereto apply to this contract. In accordance with the amendment dated October 3, 2025, no DBE goals have been established for this contract. However, contract clauses in 49 CFR 23.9, 26.13(a-b), and 26.29 still apply to this contract.*

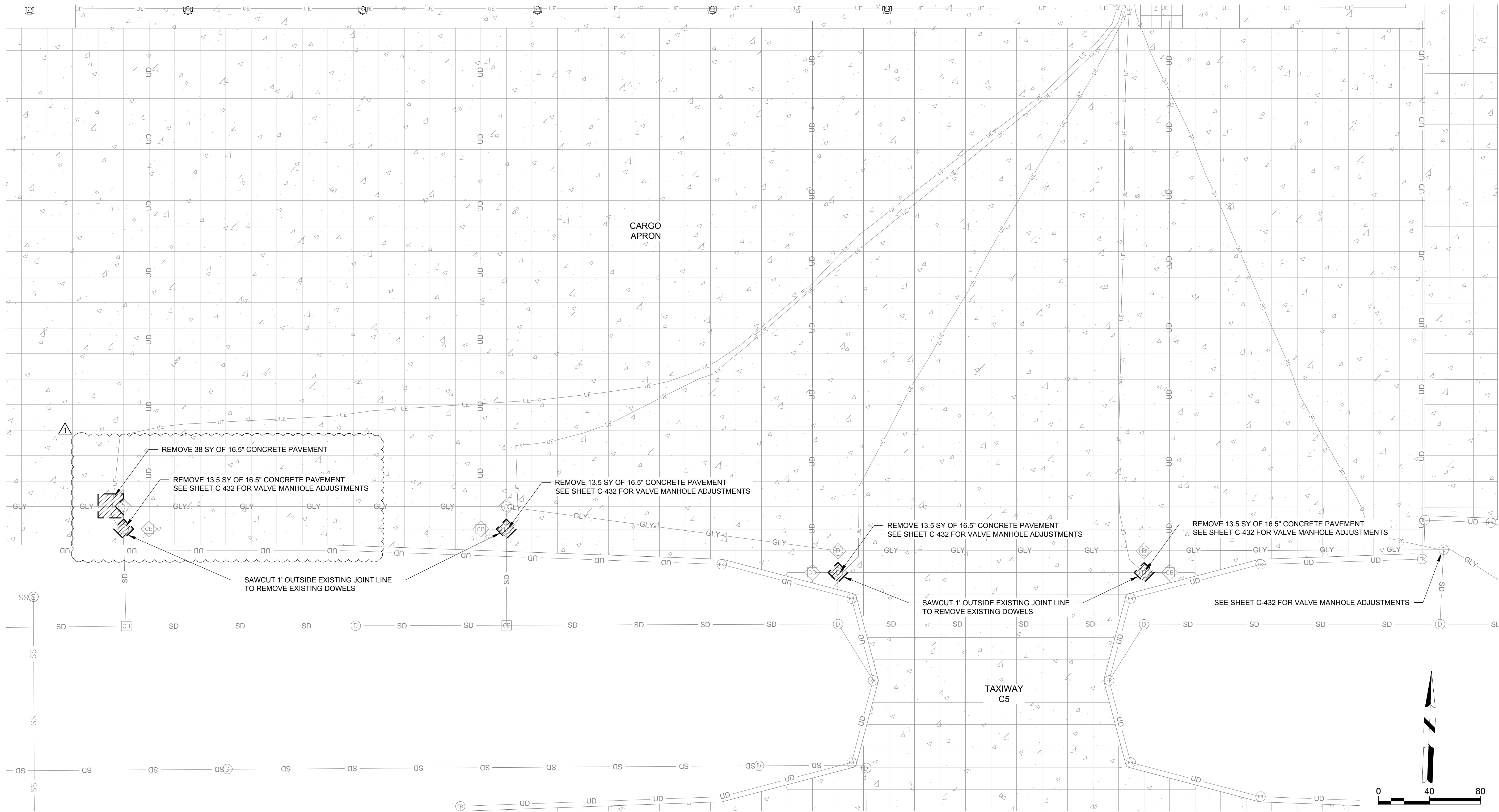




**LEGEND:**

	EXISTING CONCRETE PAVEMENT
	REMOVE 16.5" CONCRETE PAVEMENT OVER EXISTING VALVE MANHOLES
	SAW CUT PAVEMENT
	EXISTING MANHOLE
	EXISTING CATCH BASIN
	EXISTING FLUSHING RISER
	EXISTING UNDERDRAIN
	EXISTING STORM PIPE
	EXISTING GLYCOL SEWER
	EXISTING UNDERGROUND POWER

- NOTES:**
1. WORK ON THIS PAGE SHALL BE PHASED ACCORDING TO SHEET G-082.
  2. THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND PAVEMENT TO REMAIN.
  3. THE CONTRACTOR SHALL CALL 811 TO LOCATE AND PUBLIC UTILITIES PRIOR TO THE START OF CONSTRUCTION.
  4. SEE SHEET C-301 FOR TYPICAL SECTIONS OF EXISTING PAVEMENTS.
  5. CONCRETE REMOVALS SHALL BE COMPLETED SO THAT EXISTING DOWEL BARS ARE REMOVED.



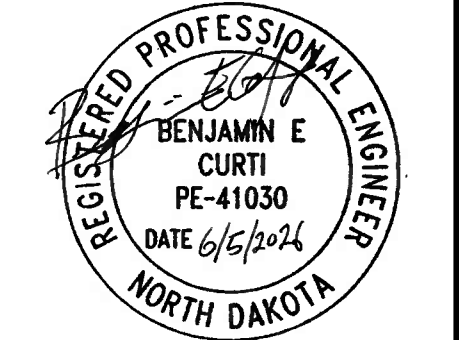
**Mead & Hunt**  
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**HECTOR INTERNATIONAL AIRPORT -  
 TERMINAL APRON RECONSTRUCTION -  
 PHASE 2  
 2801 32ND AVENUE NORTH  
 FARGO, ND 58102**

ISSUED  
 1 06/05/26 ADDENDUM 2



ISSUED FOR BID

AIP NO: 3-38-0017-070-2026  
 M&H NO: 2796100-190625.01  
 DATE: MAY 20, 2026  
 DESIGNED BY: PDC  
 DRAWN BY: PDC  
 CHECKED BY: BEC  
 DO NOT SCALE DRAWINGS

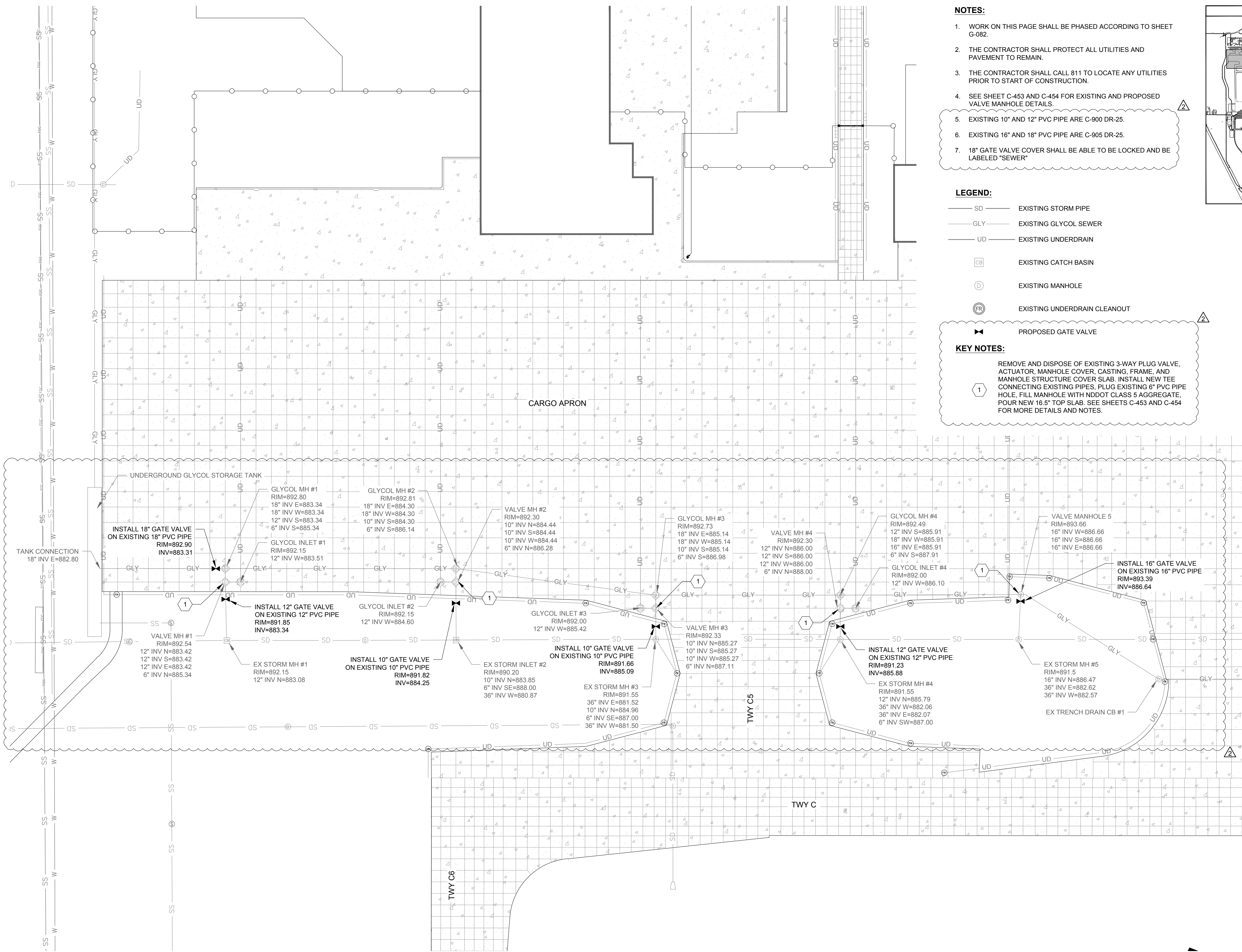
SHEET CONTENTS  
 DEMOLITION PLAN -  
 CARGO APRON

SHEET NO.

**C-052R**

X:\1796\00190625 01\TECH\CAD\PHASE 2\C-051 DEMOLITION PLAN.DWG  
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X:\127961\001\190625\01\TECH\CAD\PHASE 2\C-431 STORM SEWER PLAN PH2.DWG  
6/5/2026 7:58:39 AM



**NOTES:**

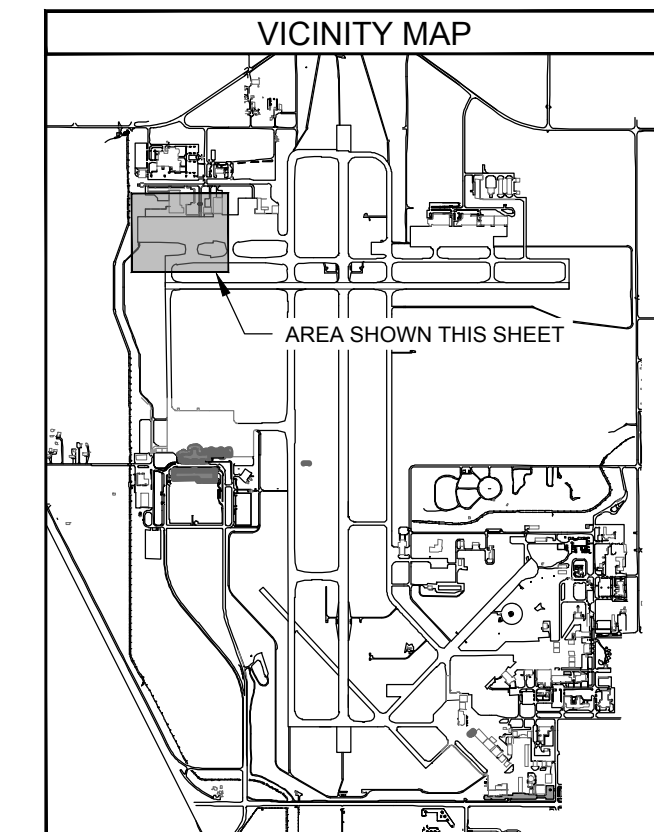
1. WORK ON THIS PAGE SHALL BE PHASED ACCORDING TO SHEET G-082.
2. THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND PAVEMENT TO REMAIN.
3. THE CONTRACTOR SHALL CALL 811 TO LOCATE ANY UTILITIES PRIOR TO START OF CONSTRUCTION.
4. SEE SHEET C-453 AND C-454 FOR EXISTING AND PROPOSED VALVE MANHOLE DETAILS.
5. EXISTING 10" AND 12" PVC PIPE ARE C-900 DR-25.
6. EXISTING 16" AND 18" PVC PIPE ARE C-905 DR-25.
7. 18" GATE VALVE COVER SHALL BE ABLE TO BE LOCKED AND BE LABELED "SEWER"

**LEGEND:**

- SD — EXISTING STORM PIPE
- GLY — EXISTING GLYCOL SEWER
- UD — EXISTING UNDERDRAIN
- CB — EXISTING CATCH BASIN
- D — EXISTING MANHOLE
- ⊙ FR — EXISTING UNDERDRAIN CLEANOUT
- ⊕ — PROPOSED GATE VALVE

**KEY NOTES:**

1 REMOVE AND DISPOSE OF EXISTING 3-WAY PLUG VALVE, ACTUATOR, MANHOLE COVER, CASTING, FRAME, AND MANHOLE STRUCTURE COVER SLAB. INSTALL NEW TEE CONNECTING EXISTING PIPES. PLUG EXISTING 6" PVC PIPE HOLE. FILL MANHOLE WITH NDDOT CLASS 5 AGGREGATE, POUR NEW 16.5" TOP SLAB. SEE SHEETS C-453 AND C-454 FOR MORE DETAILS AND NOTES.



**Mead & Hunt**  
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TERMINAL APRON RECONSTRUCTION -  
PHASE 2  
2801 32ND AVENUE NORTH  
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ISSUED  
1 06/05/26 ADDENDUM 2



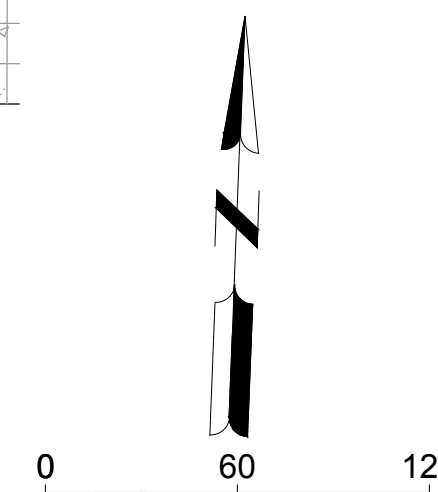
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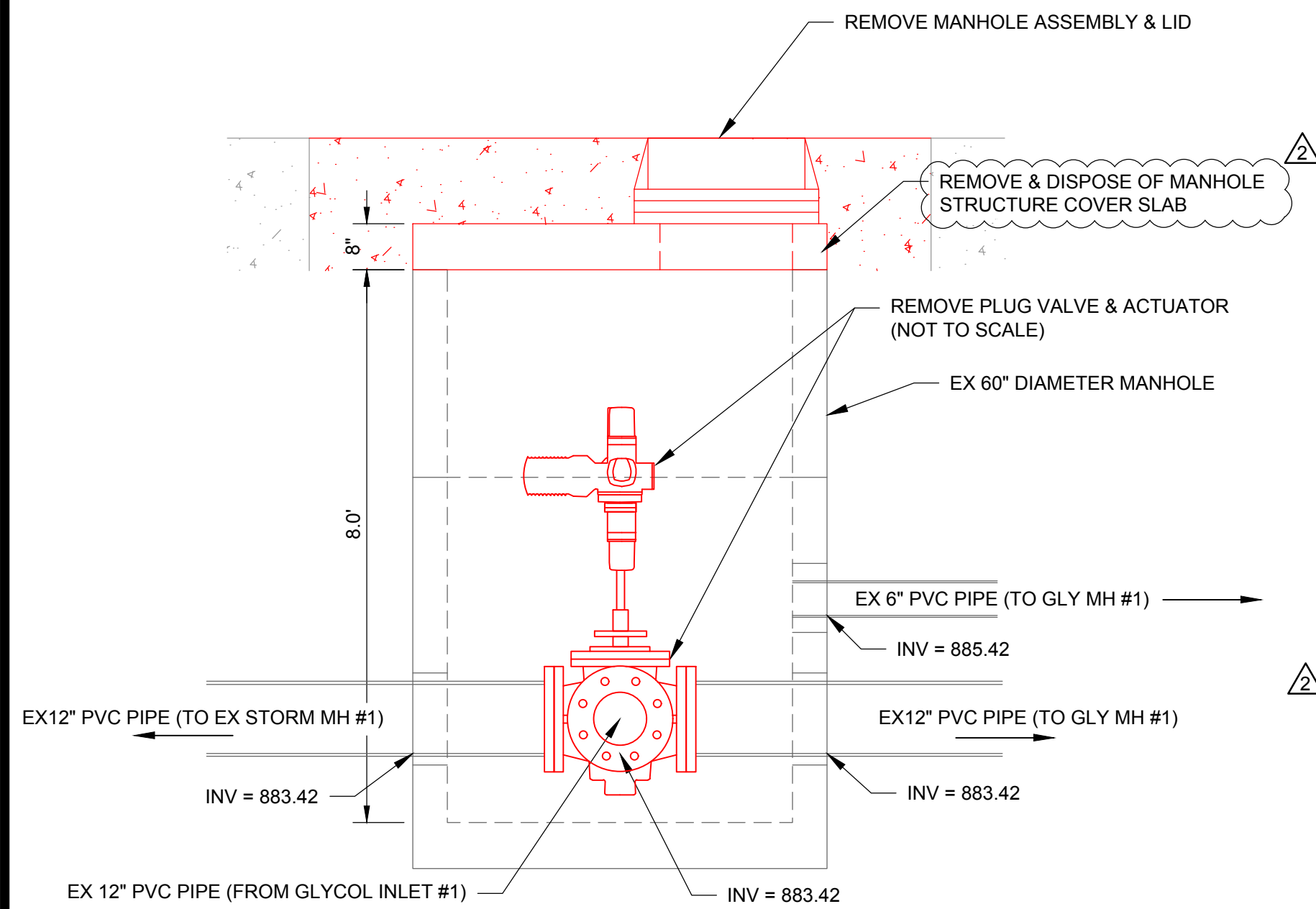
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DATE: MAY 20, 2026  
DESIGNED BY: PDC  
DRAWN BY: PDC  
CHECKED BY: BEC  
DO NOT SCALE DRAWINGS

SHEET CONTENTS  
GLYCOL SEWER  
VALVE MANHOLE  
ADJUSTMENTS

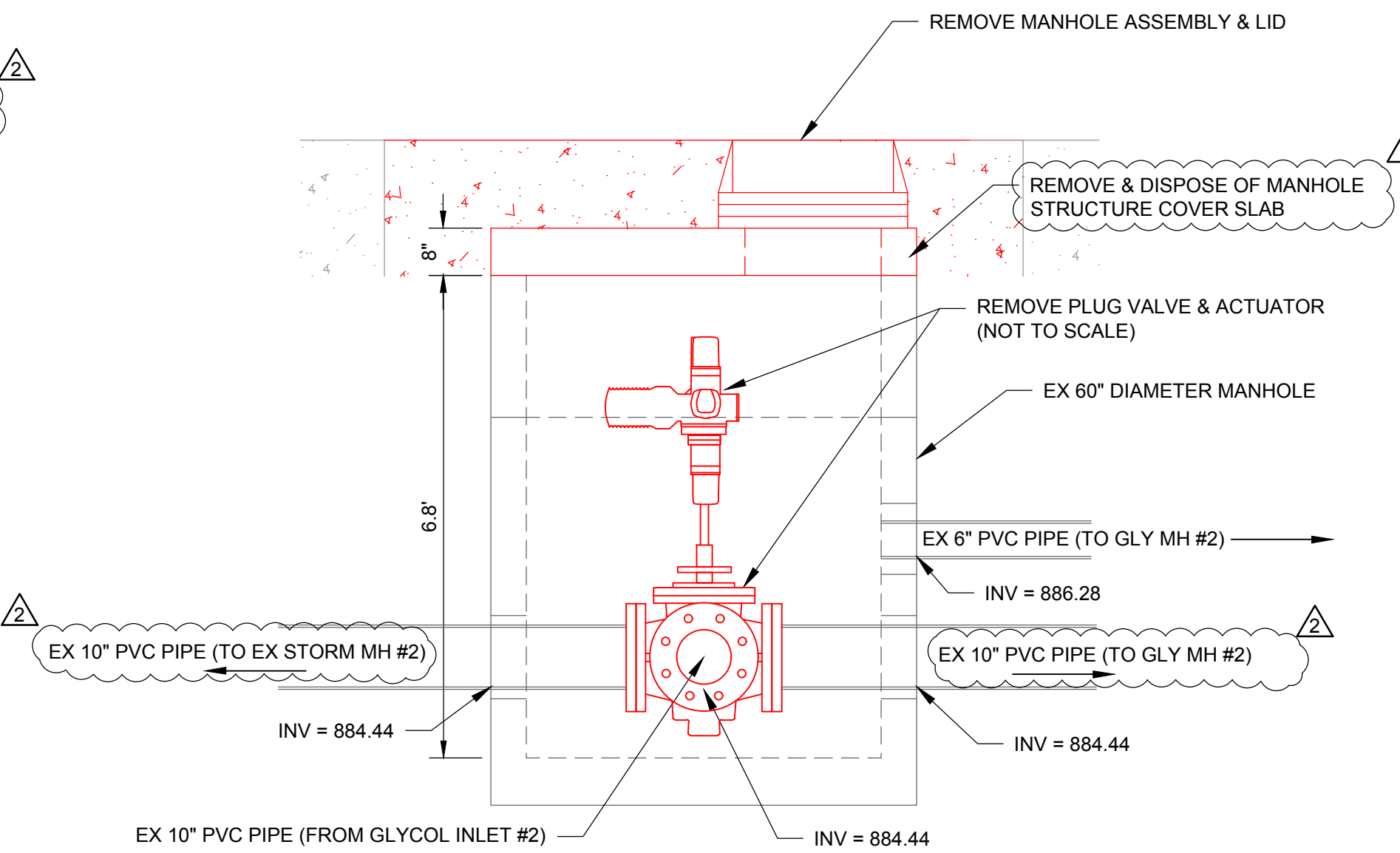
SHEET NO.

**C-432R**

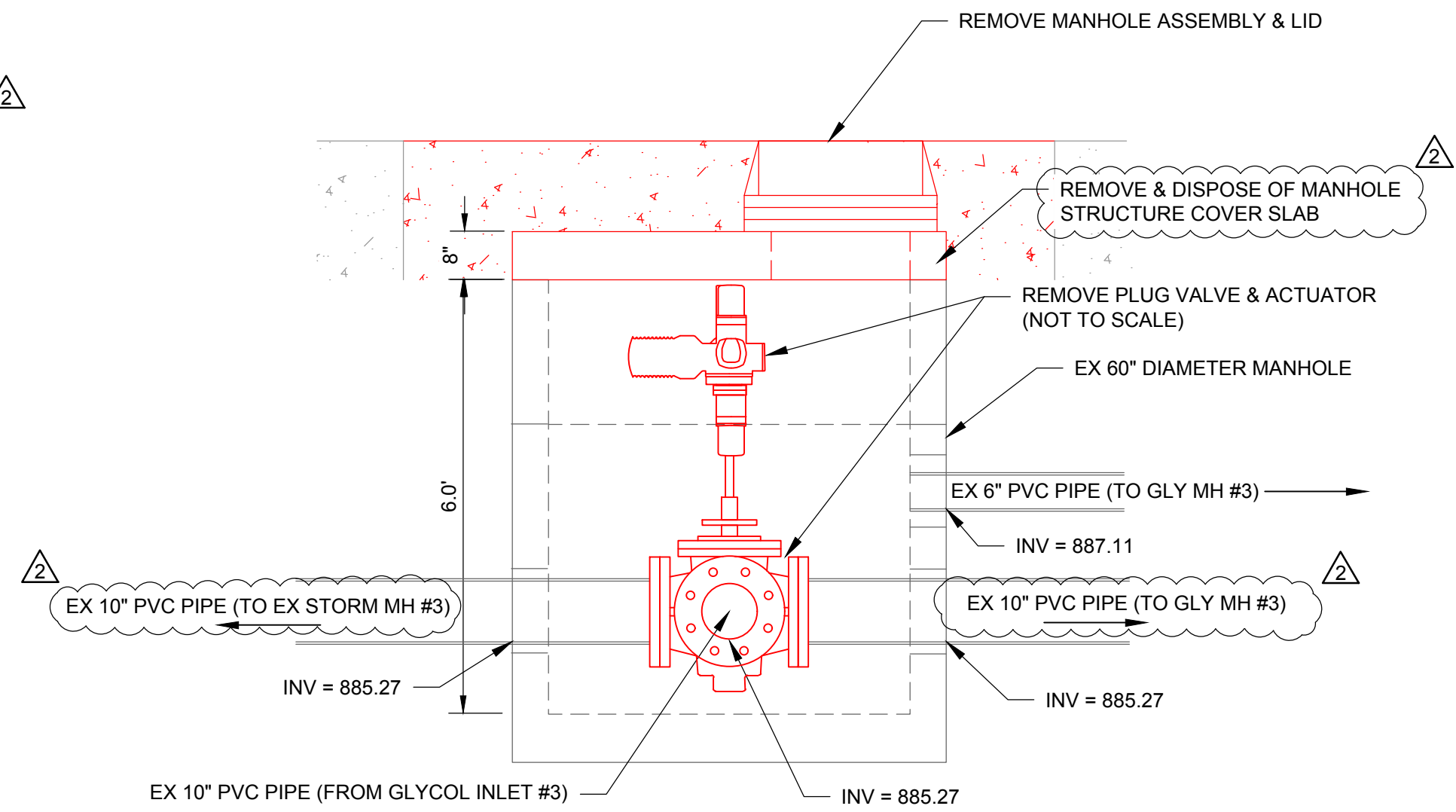




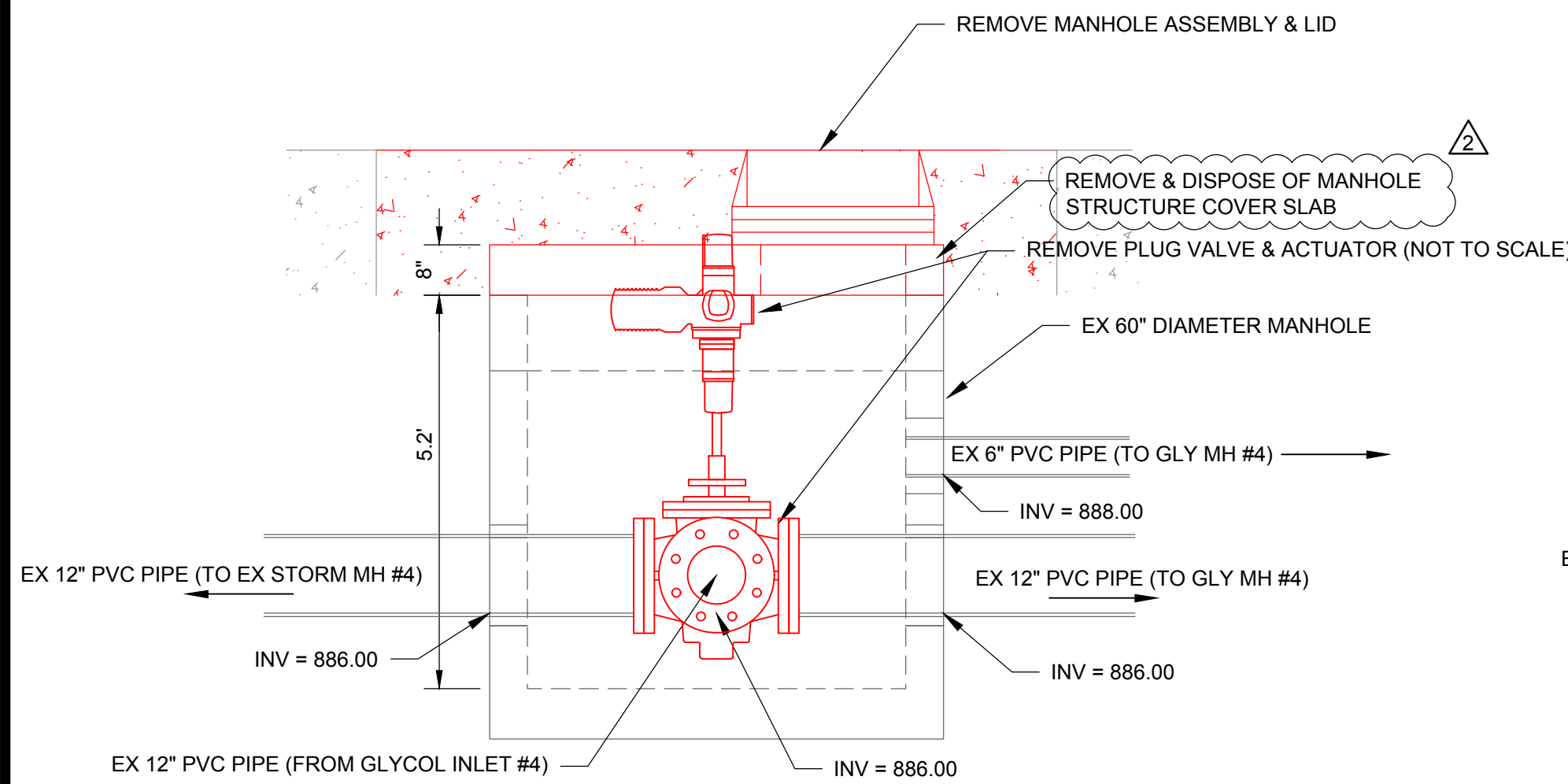
**1 EXISTING VALVE MANHOLE 1 REMOVALS**  
1" = 2'



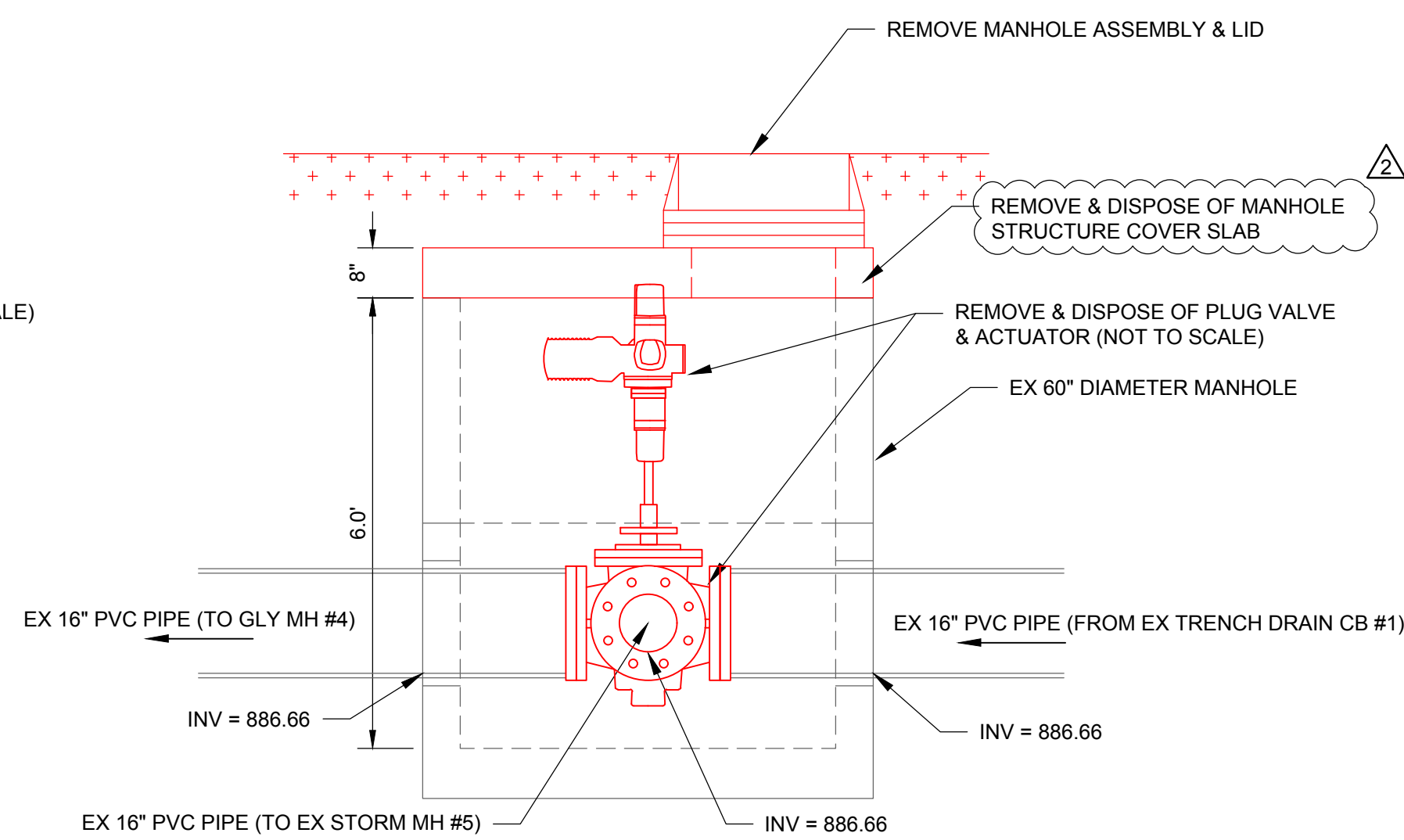
**2 EXISTING VALVE MANHOLE 2 REMOVALS**  
1" = 2'



**3 EXISTING VALVE MANHOLE 3 REMOVALS**  
1" = 2'



**4 EXISTING VALVE MANHOLE 4 REMOVALS**  
1" = 2'

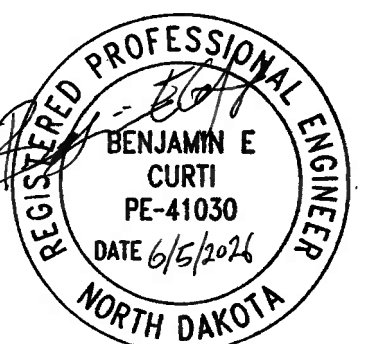


**5 EXISTING VALVE MANHOLE 5 REMOVALS**  
1" = 2'

**NOTES:**

1. EXISTING VALVE MANHOLE DETAILS ARE BASED OFF CONTRACTOR SUBMITTED SHOP DRAWINGS AND RECORD DRAWINGS.
2. ACTUATOR AND MANHOLE OPENING LOCATIONS MAY DIFFER IN FIELD FROM WHAT IS SHOWN.
3. PLUG VALVES ARE:  
DEZURIK ECCENTRIC PLUG VALVE, RECTANGULAR PORT (AWWA C517) (PEC)  
THREE WAY TAPERED PLUG VALVE (PTW)
4. ACTUATORS ARE:  
ROTORK IQ12 SERIES ELECTRIC MOTOR OPERATOR
5. EXISTING 10" AND 12" PVC PIPE ARE C-900 DR-25 PIPE.
6. EXISTING 16" PVC PIPE ARE C-905 DR-25 PIPE.

ISSUED  
1 06/05/26 ADDENDUM 2



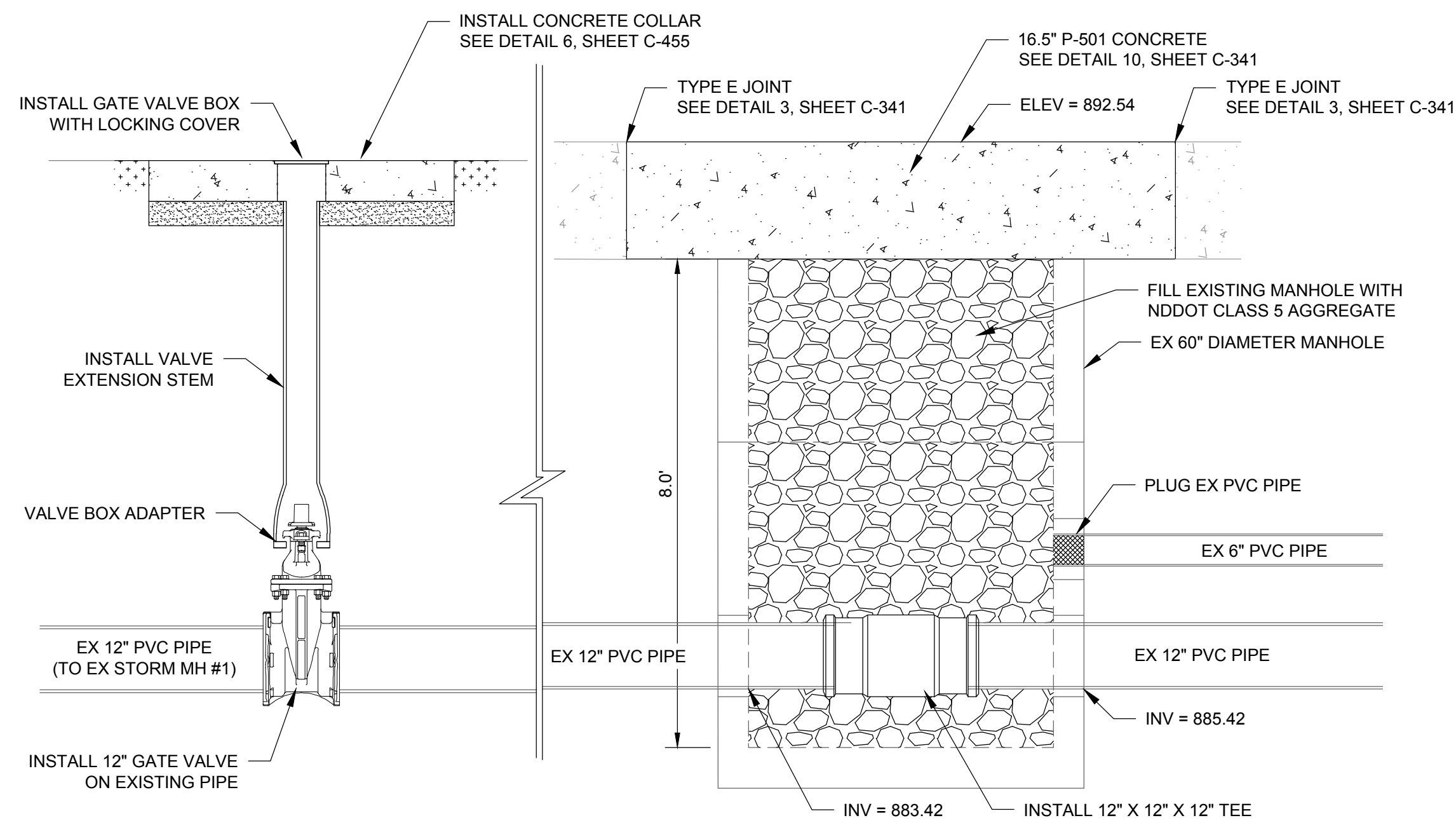
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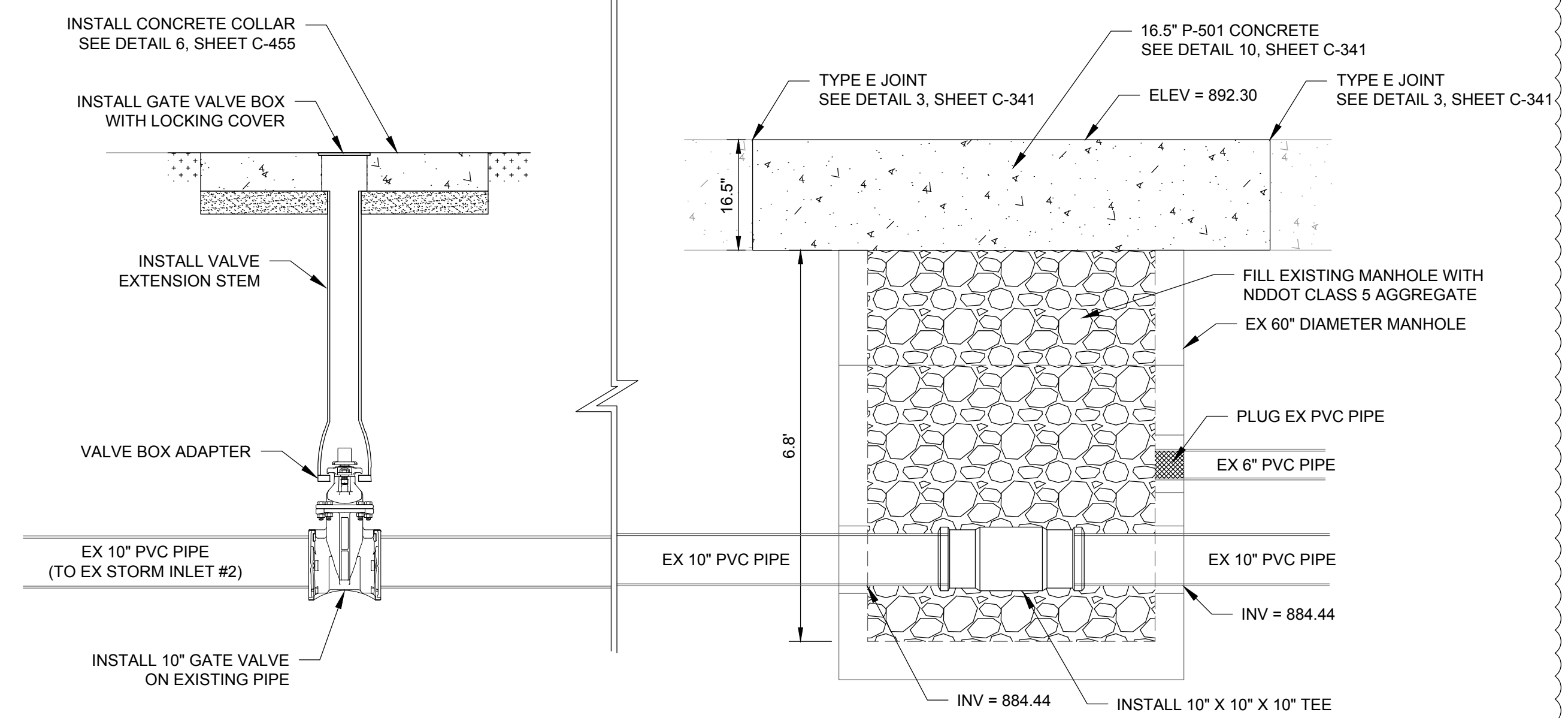
SHEET CONTENTS  
EXISTING VALVE  
MANHOLE REMOVALS

SHEET NO.

**C-453R**



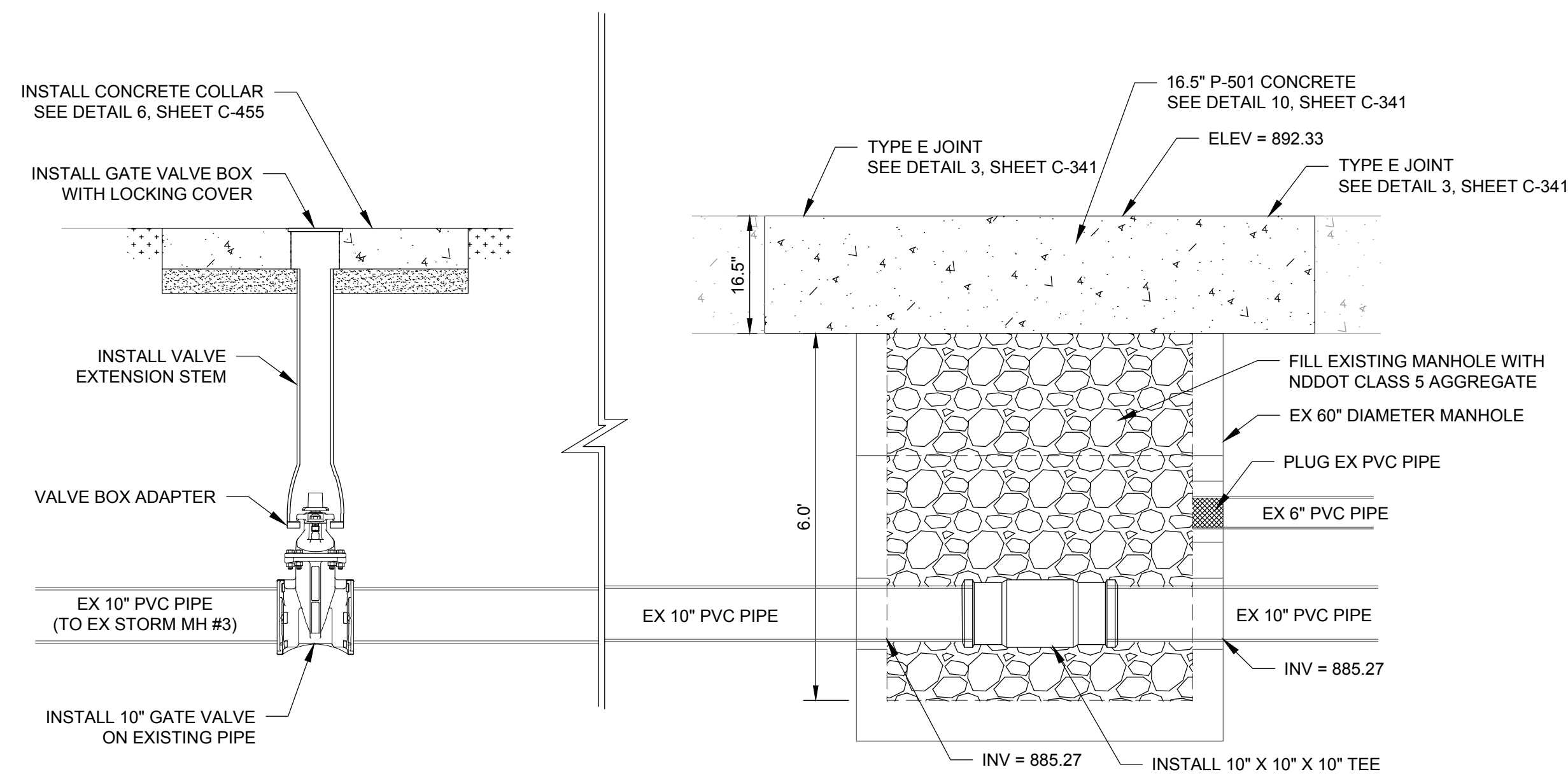
**1 EXISTING VALVE MANHOLE 1 MODIFICATIONS**  
1" = 2'



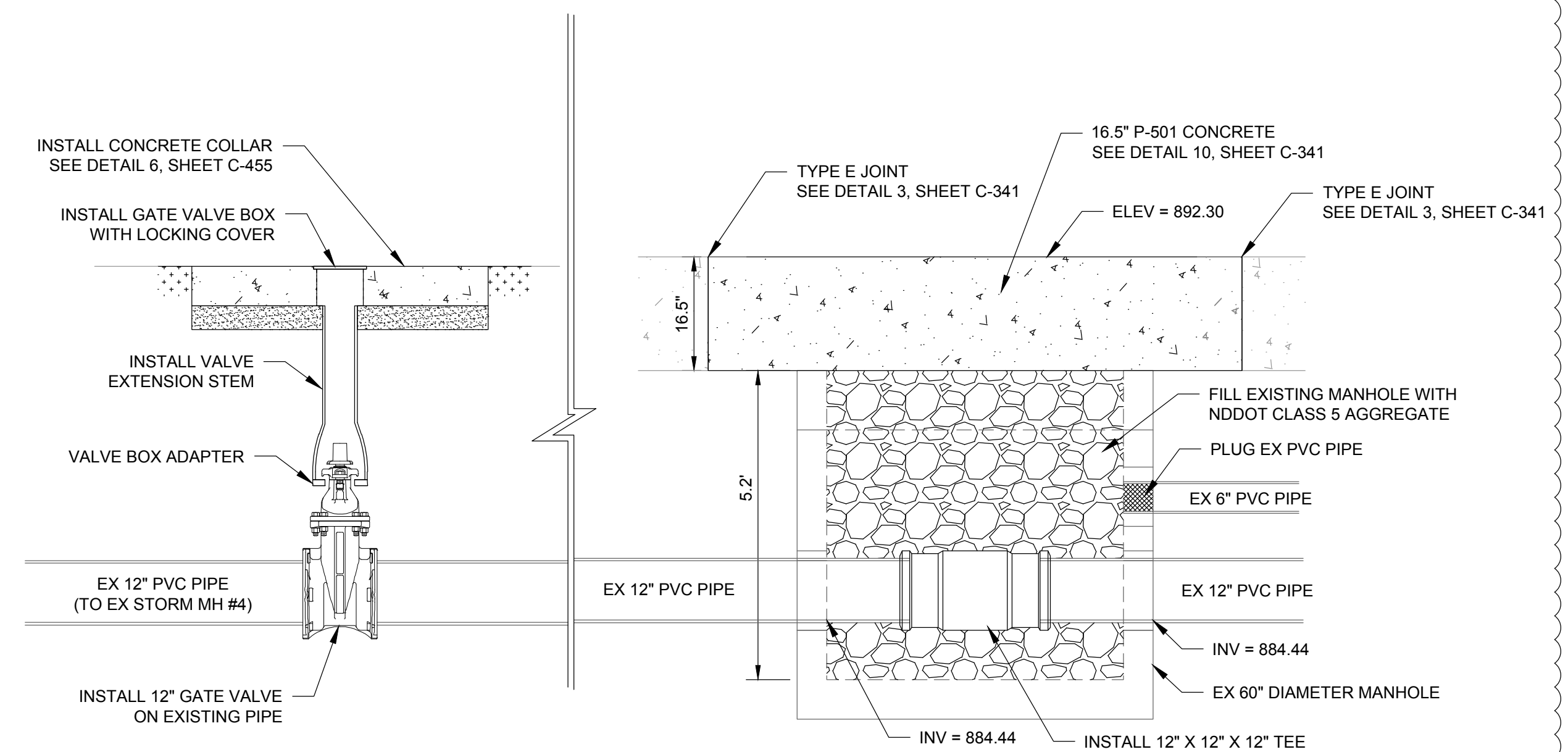
**2 EXISTING VALVE MANHOLE 2 MODIFICATIONS**  
1" = 2'

**NOTES:**

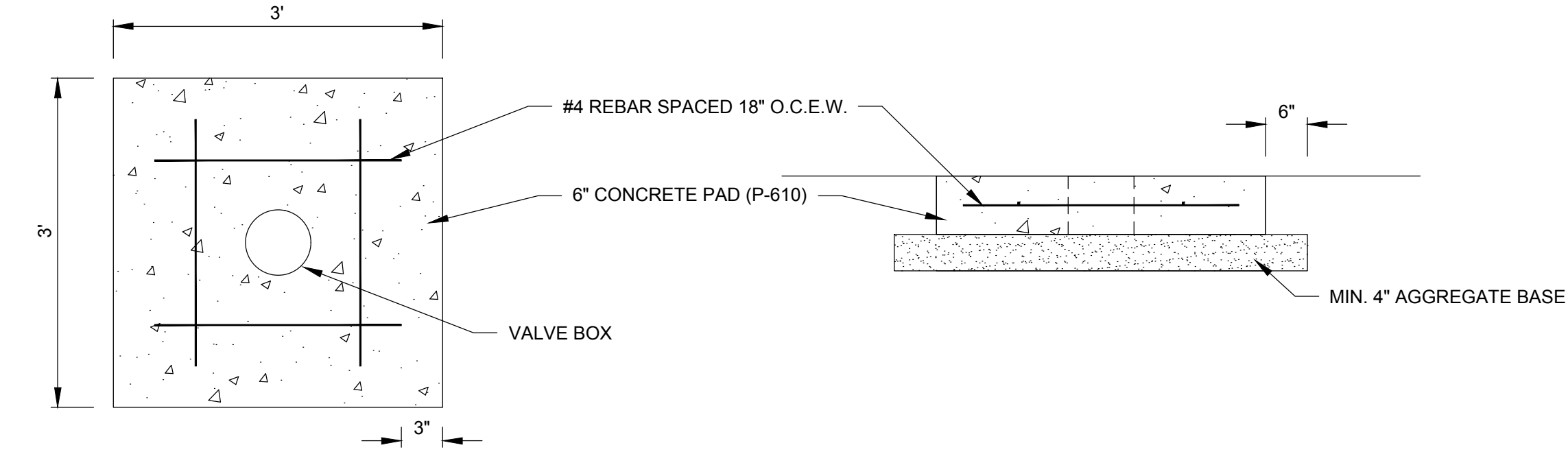
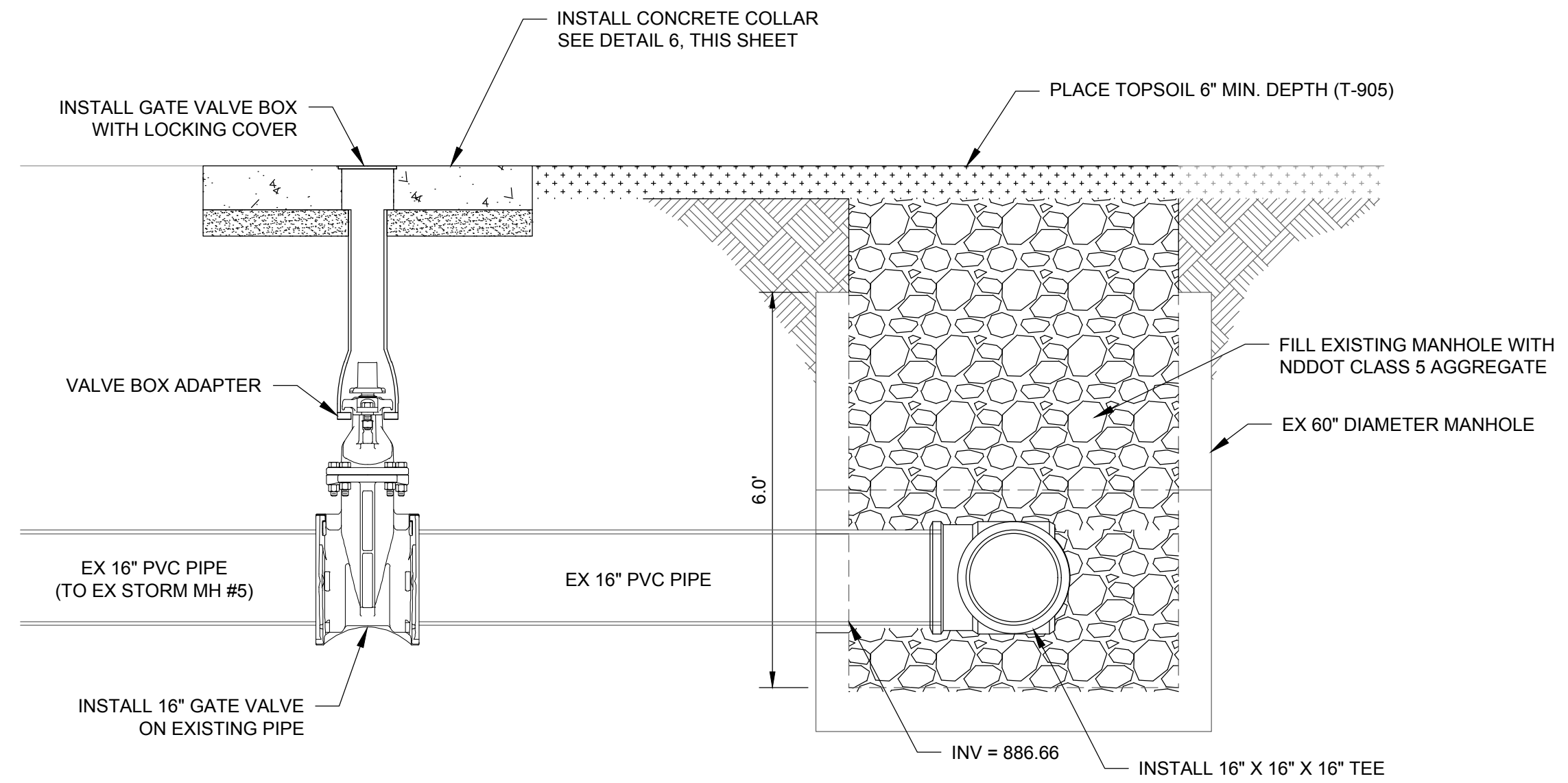
1. VALVE STEM EXTENSION AND VALVE BOX SHALL BE COMPATIBLE WITH OPERATING NUT AND EXTENSION.
2. VALVE BOX COVER SHALL BE ABLE TO BE LOCKED AND LABELED "STORM".
3. PLUG ANY OTHER PENETRATIONS OR VOIDS INTO EXISTING VALVE MANHOLES PRIOR TO FILLING WITH AGGREGATE.
4. THE PAY ITEMS FOR INSTALLING NEW TEES IN EXISTING MANHOLES (EG. D-751-5.3 INSTALL 10"X10"X10" TEE IN EXISTING MANHOLE ...) SHALL INCLUDE FURNISHING AND INSTALLING ALL MATERIALS AND LABOR TO INSTALL TEE, PLUG ANY HOLES OR INLETS INDICATED OR FOUND, AGGREGATE FILL, CONNECTIONS TO EXISTING PIPES, AND ANY EQUIPMENT TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE TEE INSTALLATION. 16.5" P-501 PCC PAVEMENT AND JOINT SEAL SHALL BE PAID FOR UNDER THEIR RESPECTIVE BID ITEMS.
5. ALL FITTINGS AND MATERIALS SHALL MEET THE REQUIREMENTS OF SPECIFICATION SECTIONS D-701 AND D-751.



**3 EXISTING VALVE MANHOLE 3 MODIFICATIONS**  
1" = 2'



**4 EXISTING VALVE MANHOLE 4 MODIFICATIONS**  
1" = 2'



**6 GATE VALVE COVER CONCRETE COLLAR**  
NO SCALE

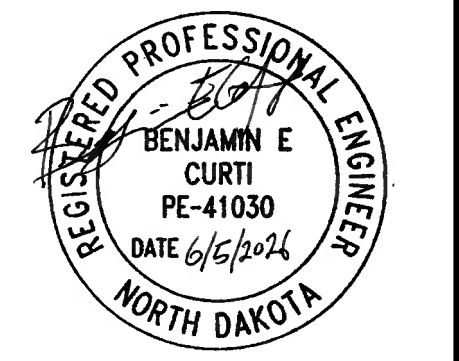
**5 EXISTING VALVE MANHOLE 5 MODIFICATIONS**  
1" = 2'

**NOTES:**

1. VALVE STEM EXTENSION AND VALVE BOX SHALL BE COMPATIBLE WITH OPERATING NUT AND EXTENSION.
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5. ALL FITTINGS AND MATERIALS SHALL MEET THE REQUIREMENTS OF SPECIFICATION SECTIONS D-701 AND D-751.

**HECTOR INTERNATIONAL AIRPORT**  
**TERMINAL APRON**  
**RECONSTRUCTION - PHASE 2**  
 2801 32ND AVENUE NORTH  
 FARGO, ND 58102

ISSUED  
1 06/05/26 ADDENDUM 2



ISSUED FOR BID

M&H NO.: 2796100-190625.01  
DATE: MAY 20, 2026  
DESIGNED BY: PDC  
DRAWN BY: PDC  
CHECKED BY: BEC  
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SHEET CONTENTS  
VALVE MANHOLES  
MODIFICATIONS

SHEET NO.

**C-455**

**BID SCHEDULE**

**Airport: Hector International Airport**

**FAA AIP Project No.**

**3-38-0017-070-2026**

**Project: Terminal Apron Reconstruction - Phase 2**

**Mead & Hunt Project No.**

**2796100-190625.01**

Item No.	Item Description	Estimated Quantity	Unit	Unit Price	Total Amount per Item
<b><u>BASE BID</u></b>					
C-100-1.1	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS	\$ _____	\$ _____
C-102-5.1	EROSION CONTROL	1	LS	\$ _____	\$ _____
C-105-6.1	MOBILIZATION	1	LS	\$ _____	\$ _____
NS-001-01	AIRPORT SAFETY AND TRAFFIC CONTROL	1	LS	\$ _____	\$ _____
NS-002-01	MAINTENANCE AND RESTORATION OF HAUL ROADS AND STAGING AREA	1	LS	\$ _____	\$ _____
NS-003-01	SEPARATION GEOTEXTILE	12,211	SY	\$ _____	\$ _____
P-101-5.1	CONCRETE PAVEMENT REMOVAL, FULL DEPTH	12,303	SY	\$ _____	\$ _____
P-101-5.2	REMOVE DRAINAGE PIPE 24-INCHES AND GREATER, COMPLETE	350	LF	\$ _____	\$ _____
P-101-5.3	REMOVE DRAINAGE STUCTURE	2	EA	\$ _____	\$ _____
P-101-5.4	REMOVE 3-WAY PLUG VALVE IN MANHOLE	5	EA	\$ _____	\$ _____
P-152-4.1	UNCLASSIFIED EXCAVATION	4,100	CY	\$ _____	\$ _____
P-156-8.1	CEMENT TREATED SUBGRADE, 12-INCH DEPTH	12,211	SY	\$ _____	\$ _____
P-156-8.2	CEMENT	171	TON	\$ _____	\$ _____
P-219-5.1	RECYCLED CONCRETE AGGREGATE BASE COURSE, 8-INCH DEPTH	12,211	SY	\$ _____	\$ _____
P-401-8.1	BITUMINOUS BASE COURSE	4,898	TON	\$ _____	\$ _____

Item No.	Item Description	Estimated Quantity	Unit	Unit Price	Total Amount per Item
P-501-8.1	PORTLAND CEMENT CONCRETE PAVEMENT, 16.5-INCH DEPTH (NON-REINFORCED)	10,265	SY	\$ _____	\$ _____
P-501-8.2	PORTLAND CEMENT CONCRETE PAVEMENT, 16.5-INCH DEPTH (REINFORCED)	2,038	SY	\$ _____	\$ _____
P-603-5.1	EMULSIFIED ASPHALT TACK COAT	1,300	GAL	\$ _____	\$ _____
P-605-5.1	JOINT SEALING FILLER, HOT APPLIED	670	LF	\$ _____	\$ _____
P-605-5.2	JOINT SEALING FILLER, SILICONE	9,110	LF	\$ _____	\$ _____
P-620-5.1	PAVEMENT MARKING REMOVAL	4,260	SF	\$ _____	\$ _____
P-620-5.2	PAVEMENT MARKING, YELLOW	2,086	SF	\$ _____	\$ _____
P-620-5.3	PAVEMENT MARKING, BLACK	2,215	SF	\$ _____	\$ _____
P-620-5.4	PAVEMENT MARKING, RED	1,316	SF	\$ _____	\$ _____
P-620-5.5	PAVEMENT MARKING, WHITE	1,906	SF	\$ _____	\$ _____
P-620-5.6	REFLECTIVE MEDIA	1	LS	\$ _____	\$ _____
P-620-5.7	TEMPORARY MARKINGS	681	SF	\$ _____	\$ _____
D-701-5.1	24-INCH CLASS V RCP, COMPLETE	175	LF	\$ _____	\$ _____
D-701-5.2	30-INCH CLASS V RCP, COMPLETE	150	LF	\$ _____	\$ _____
D-705-5.1	6-INCH PERFORATED POLYETHYLENE UNDERDRAIN PIPE - SCHEDULE 40 W/SOCK, COMPLETE	747	LF	\$ _____	\$ _____
D-751-5.1	60-INCH DIAMETER CATCH BASIN	1	EA	\$ _____	\$ _____
D-751-5.2	72-INCH DIAMETER CATCH BASIN	1	EA	\$ _____	\$ _____
D-751-5.3	INSTALL 10"X10"X10" TEE IN EXISTING MANHOLE	2	EA	\$ _____	\$ _____
D-751-5.3	INSTALL 12"X12"X12" TEE IN EXISTING MANHOLE	2	EA	\$ _____	\$ _____
D-751-5.3	INSTALL 16"X16"X16" TEE IN EXISTING MANHOLE	1	EA	\$ _____	\$ _____
NS-004-01	INSTALL 10" GATE VALVE WITH BOX AND CONCRETE COLLAR	2	EA	\$ _____	\$ _____
NS-004-02	INSTALL 12" GATE VALVE WITH BOX AND CONCRETE COLLAR	2	EA	\$ _____	\$ _____

Item No.	Item Description	Estimated Quantity	Unit	Unit Price	Total Amount per Item
NS-004-03	INSTALL 16" GATE VALVE WITH BOX AND CONCRETE COLLAR	1	EA	\$ _____	\$ _____
NS-004-04	INSTALL 18" GATE VALVE WITH BOX	1	EA	\$ _____	\$ _____

**TOTAL AMOUNT OF BASE BID** \$ \_\_\_\_\_

**Name of Bidder (Typed or Printed)** \_\_\_\_\_

**Signature of Bidder (Same as Proposal Form)** \_\_\_\_\_

**Title** \_\_\_\_\_

**END OF BID SCHEDULE**

Item No.	Item Description	Estimated Quantity	Unit	Unit Price	Total Amount per Item
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## ITEM NS-004-VALVE WITH BOX

### GENERAL

**1.1 Scope of Work.** Furnish all labor, materials, and equipment to install the valve with box and concrete collar.

**1.3 Project Conditions.** Review manufacturer's recommended installation procedures and coordinate installation with other work affected, such as grading, excavation, utilities, construction access and erosion control.

### SUBMITTALS

**2.1 Product data,** product data sheets for make and model and installation instructions shall be submitted for review a minimum of 10 working days prior to installation.

**2.3 Shop Drawings** shall be annotated to indicate all materials to be furnished and installed, and all applicable standards for materials, and required test of materials.

### MATERIALS

**3.1 Gate Valve and Box.** General requirement AWWA C515. Ductile iron body valve, bronze mounted. Non-rising stem, opening by turning counterclockwise, 2 inches square operating nut. O-ring seals. Mechanical joint ends conforming to AWWA C111/A21.11. Stainless steel hardware. All internal and external surfaces of the valve body and bonnet shall have a coating complying with ANSI/AWWA C550 and C116/A21.16. Wrap gate valve with pipe encasement.

Valve Box shall be 3-piece, ductile iron, screw-type. Adjustable for 7-1/2 foot depth of cover. Valve and box considered as integral units. 5-1/4 inch diameter shafts. "Stay put" type drop covers, "STORM" on top with extended skirts.

**3.2 Butterfly Valve and Box.** General requirement AWWA C504. Mechanical joint valve ends conforming to AWWA C111/A21.11. AWWA C504 Class 250. All stainless steel hardware required.

Valve Box shall be 3-piece, ductile iron, screw-type. Valve and box to be considered as integral units. 5-1/4 inch diameter shafts. Round or oval bases. "Stayput" type drop covers, "STORM" on top with extended skirts.

**3.3 Joint Restraint.** Ductile iron conforming to ASTM A536. Working pressure minimum 250 psi. EBAA Iron, Inc, Mega-lug, Star Pipe Products Stargrip, Sigma One Lok, or approved equal. Casting body and wedge assemblies coating per ANSI/AWWA C116/A2.

**3.4 Concrete Collar.** Concrete, steel reinforcement, and curing materials shall conform to Specification P-610.

## CONSTRUCTION

**4.1 Installation.** Valves and boxes shall be supported on an 8-inch concrete block and encased with aggregate class 3N (NDDOT Spec 816). Install valve adaptor. Maintain valve box centered and plumb over the operating nut of the valve. Set top of valve box flush with the existing surface to provide 12 inches of upward adjustment.

**4.2 Concrete Collar.** Shall be constructed per Specification P-610.

**4.3 Valve testing.** Test all valves in the presence of the Engineer after final surface restoration. Ensure that the valve wrench will engage with the operation nut and that the valve can be fully opened and closed.

## METHOD OF MEASUREMENT

**5.1 Valve and Box.** Measurement shall be by Each size and type of valve and box installed. Payment shall include the valve, jointing material, valve box, valve box adaptor, concrete block, necessary extensions, concrete collar, and all other work necessary for a complete and workable valve installation. Joint restraint shall be considered incidental.

## BASIS OF PAYMENT

Payment will be made under:

Item NS-004-01	Install 10" Gate Valve with Box and Concrete Collar – per Each
Item NS-004-02	Install 12" Gate Valve with Box and Concrete Collar – per Each
Item NS-004-03	Install 16" Gate Valve with Box and Concrete Collar – per Each
Item NS-004-04	Install 18" Gate Valve with Box – per Each

## REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASTM A536	Standard Specification for Ductile Iron Castings
AWWA C504	Rubber-Seated Butterfly Valves
AWWA C111/A21.11	Rubber-gasket Joints for Ductile-Iron Pressure Pipe and Fittings
ANSI/AWWA C116/A21.16	Protective Fusion-Bonded Coatings for the Interior and Exterior Surfaces of Ductile-Iron and Gray-Iron Fittings
AWWA C515	Reduced-Wall, Resilient-Seated Gate Valves for Water Supply Service
ANSI/AWWA C550	Protective Interior Coatings For Valves & Hydrants

## END OF ITEM NS-004