

ADDENDUM No. 1**2024 PARKING LOT AND ROADWAY IMPROVEMENTS****February 9, 2024**

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated January 22, 2024. Acknowledge receipt of this addendum in the space provided on the bid form, failure to do so may subject the Bidder to disqualification.

BIDDER MUST ACKNOWLEDGE RECEIPT OF ADDENDUM No. 1 ON THE REVISED BID FORM (ADDENDUM NO. 1 VERSION) FOR THE BID TO BE CONSIDERED RESPONSIVE.**General Items****1. Contractor Questions:**

- a. Q: Are the SW-508 and SW-510 structures in the chip seal lot standard size? Or are the boxes oversized to fit the 36" RCP?

A: Existing SW-508 and SW-510 structures are not standard SUDAS dimensions. Preference is to cast in place new tops.

- b. Q: Is there a detail available for the 10" roof drain installation? Desired depth/backfill? And would an alternate of 8" SDR26 be considered? 10" SDR pipe and fittings can have a long lead time and hard to source.

A: See detail 01 on sheet M.16 for gravity sewer earth excavation installation and backfill requirements. 12" SDR26 would be considered as an alternate to the 10". 8" SDR26 will not be considered as an alternate.

2. Pre-Bid Presentation

The Pre-Bid meeting presentation is attached to this Addendum.

Bid Form

3. The Bid Form has been revised. A new bid form has been **REISSUED** with this addendum for bidding purposes:

- a. **REVISE** item 14 from "STORM SEWER, TRENCHED, RCP, CLASS V, 15 IN." to "STORM SEWER, TRENCHED, 15 IN., WITH AGGREGATE BACKFILL"
- b. **REVISE** item 15 from "STORM SEWER, TRENCHED, RCP, CLASS V, 18 IN." to "STORM SEWER, TRENCHED, 18 IN., WITH AGGREGATE BACKFILL"
- c. **REVISE** item 16 from "STORM SEWER, TRENCHED, RCP, CLASS V, 24 IN." to "STORM SEWER, TRENCHED, 24 IN., WITH AGGREGATE BACKFILL"
- d. **REVISE** item 17 from "STORM SEWER, TRENCHED, RCP, CLASS III, 30 IN." to "STORM SEWER, TRENCHED, 30 IN."
- e. **REVISE** item 18 from "STORM SEWER, TRENCHED, RCP, CLASS V, 30 IN." to "STORM SEWER, TRENCHED, 30 IN., WITH AGGREGATE BACKFILL"
- f. **REVISE** item 19 from "STORM SEWER, TRENCHED, RCP, CLASS III, 36 IN." to "STORM SEWER, TRENCHED, 36 IN."
- g. **REVISE** item 20 from "STORM SEWER, TRENCHED, RCP, CLASS V, 36 IN." to "STORM SEWER, TRENCHED, 36 IN., WITH AGGREGATE BACKFILL"
- h. **REVISE** item 21 Division 1 quantity from 223 to 218 and Total quantity from 1,483 to 1,478.
- i. **REVISE** item 22 Division 1 quantity from 489 to 491 and Division 2 quantity from 567 to 600 and Total quantity from 1,056 to 1,091.

- j. **ADD** item 24a, SUBDRAIN CLEANOUT ADJUSTMENT
- k. **REVISE** item 53 Division 2 quantity from 3,870 to 3,905 and Total quantity from 6,175 to 6,210.
- l. **REVISE** item 58 Division 2 quantity from 5 to 12 and Total quantity from 8 to 15.
- m. **REVISE** item 106 Division 2 quantity from 9 to 8 and Total quantity from 13 to 12.
- n. **REVISE** item 107 Division 2 quantity from 1 to 2 and Total quantity from 1 to 2.
- o. **ADD** item 117, BOLLARD, STEEL, 6 INCH DIA. GALVANIZED, WITH SLEEVE
- p. **ADD** item 118, BOLLARD REMOVAL
- q. **ADD** item 119, IRRIGATION REMOVAL
- r. **ADD** item A36, INTAKE, SW-508M, INSERT, WALLS, AND TOP ONLY
- s. **REVISE** item A37 Division 3 – Bid Alternate quantity from 3 to 2.

Specifications

- 4. **Section 000005** (Revised with this addendum)
 - a. **ADD** Section 012100 Allowances
- 5. **Section 012100 (ISSUED)** with this addendum)
 - a. **ADD** Section 012100 Allowances in its entirety.
- 6. **Section 011000:** (Revised with this addendum)
 - a. 1.3 A. **REVISE** Project Identification “Construct Temporary Overflow Parking Lot” to “2024 Parking Lot and Roadway Improvements”
- 7. **Section 013300, 26 05 00, 26 05 05, 26 05 13, 26 05 26, 26 05 33, 26 05 53, 26 24 23, 26 51 19:** (Revised with this addendum)
 - a. **REVISE** header from “TEIA-Construct Temporary Overflow Parking Lot” to “TEIA-2024 Parking Lot and Roadway Improvements”

Plans

- 8. **Plan Sheet B.03:** (Revised with this addendum)
 - a. **DELETE** detail 01.
- 9. **Plan Sheet C.01:** (Revised and **REISSUED** with this addendum)
 - a. **REVISE** item 14 from “STORM SEWER, TRENCHED, RCP, CLASS V, 15 IN.” to “STORM SEWER, TRENCHED, 15 IN., WITH AGGREGATE BACKFILL”
 - b. **REVISE** item 15 from “STORM SEWER, TRENCHED, RCP, CLASS V, 18 IN.” to “STORM SEWER, TRENCHED, 18 IN., WITH AGGREGATE BACKFILL”
 - c. **REVISE** item 16 from “STORM SEWER, TRENCHED, RCP, CLASS V, 24 IN.” to “STORM SEWER, TRENCHED, 24 IN., WITH AGGREGATE BACKFILL”
 - d. **REVISE** item 17 from “STORM SEWER, TRENCHED, RCP, CLASS III, 30 IN.” to “STORM SEWER, TRENCHED, 30 IN.”
 - e. **REVISE** item 18 from “STORM SEWER, TRENCHED, RCP, CLASS V, 30 IN.” to “STORM SEWER, TRENCHED, 30 IN., WITH AGGREGATE BACKFILL”
 - f. **REVISE** item 19 from “STORM SEWER, TRENCHED, RCP, CLASS III, 36 IN.” to “STORM SEWER, TRENCHED, 36 IN.”
 - g. **REVISE** item 20 from “STORM SEWER, TRENCHED, RCP, CLASS V, 36 IN.” to “STORM SEWER, TRENCHED, 36 IN., WITH AGGREGATE BACKFILL”

- h. **REVISE** item 21 Division 1 quantity from 223 to 218 and Total quantity from 1,483 to 1,478.
 - i. **REVISE** item 22 Division 1 quantity from 489 to 491 and Division 2 quantity from 567 to 600 and Total quantity from 1,056 to 1,091.
 - j. **ADD** item 24A, SUBDRAIN CLEANOUT ADJUSTMENT
 - k. **REVISE** item 36 Division 3 quantity from 0 to 1 and Total quantity from 1 to 2.
 - l. **REVISE** item 37 Division 3 quantity from 3 to 2 and Total quantity from 3 to 2.
 - m. **REVISE** item 53 Division 2 quantity from 3,870 to 3,905 and Total quantity from 6,175 to 6,210.
 - n. **REVISE** item 58 Division 2 quantity from 5 to 12 and Total quantity from 8 to 15.
 - o. **REVISE** item 106 Division 2 quantity from 9 to 8 and Total quantity from 13 to 12.
 - p. **REVISE** item 107 Division 2 quantity from 1 to 2 and Total quantity from 1 to 2.
 - q. **ADD** item 117, BOLLARD, STEEL, 6 INCH DIA. GALVANIZED, WITH SLEEVE
 - r. **ADD** item 118, BOLLARD REMOVAL
 - s. **ADD** item 119, IRRIGATION REMOVAL
10. **Plan Sheet C.02:** (Revised and **REISSUED** with this addendum)
- a. **REVISE** Reference note D. for items 7-10 from “RECYCLED CONCRETE AGGREGATE MEETING THE GRADATION REQUIREMENTS OF IOWA DOT 4123 MAY BE USED IN PLACE OR IN CONJUNCTION WITH MODIFIED SUBBASE. RECYCLED CONCRETE MATERIAL SHALL BE FROM A CERTIFIABLE CITY, AIRPORT, OR STATE PROJECT SOURCE. CONTRACTOR MUST PROVIDE THE ENGINEER WITH CERTIFICATION LETTER PRIOR TO USE ON THE PROJECT.” to “RECYCLED CONCRETE AGGREGATE MEETING THE GRADATION AND QUALITY SPECIFICATIONS OF IOWA DOT 4123 MAY BE USED IN PLACE OF, OR IN CONJUNCTION WITH VIRGIN MODIFIED SUBBASE. CONTRACTOR MUST PROVIDE THE ENGINEER WITH TEST RESULTS PRIOR TO USE ON THE PROJECT.”
 - b. **REVISE** item 14 from “STORM SEWER, TRENCHED, RCP, CLASS V, 15 IN.” to “STORM SEWER, TRENCHED, 15 IN., WITH AGGREGATE BACKFILL”
 - c. **REVISE** item 15 from “STORM SEWER, TRENCHED, RCP, CLASS V, 18 IN.” to “STORM SEWER, TRENCHED, 18 IN., WITH AGGREGATE BACKFILL”
 - d. **REVISE** item 16 from “STORM SEWER, TRENCHED, RCP, CLASS V, 24 IN.” to “STORM SEWER, TRENCHED, 24 IN., WITH AGGREGATE BACKFILL”
 - e. **REVISE** item 17 from “STORM SEWER, TRENCHED, RCP, CLASS III, 30 IN.” to “STORM SEWER, TRENCHED, 30 IN.”
 - f. **REVISE** item 18 from “STORM SEWER, TRENCHED, RCP, CLASS V, 30 IN.” to “STORM SEWER, TRENCHED, 30 IN., WITH AGGREGATE BACKFILL”
 - g. **REVISE** item 19 from “STORM SEWER, TRENCHED, RCP, CLASS III, 36 IN.” to “STORM SEWER, TRENCHED, 36 IN.”
 - h. **REVISE** item 20 from “STORM SEWER, TRENCHED, RCP, CLASS V, 36 IN.” to “STORM SEWER, TRENCHED, 36 IN., WITH AGGREGATE BACKFILL”
 - i. **REVISE** Reference note B. for items 13-20 from “USE BEDDING CLASS R-2 FOR ALL STORM SEWER PER SUDAS FIGURE 3010.102 AND CLASS I MATERIAL AS SPECIFIED IN SUDAS SPEC. SECT. 3010, 2.02.” to “FOR RIGID PIPE USE BEDDING CLASS R-2 PER SUDAS FIGURE 3010.102 AND CLASS I MATERIAL AS SPECIFIED IN SUDAS SPEC. SECT. 3010, 2.02.”
 - j. **ADD** Reference note F. to items 13-20 “FOR FLEXIBLE PIPE USE BEDDING CLASS F-2 PER SUDAS FIGURE 3010.103 AND CLASS I MATERIAL AS SPECIFIED IN SUDAS SPEC. SECT. 3010, 2.02.”

- k. **ADD** Reference note G. to items 13-20 “POLYPROPYLENE PIPE, IF SELECTED, SHALL BE PERFORATED (AT THE PLANT) AND PERFORATION PATTERN SHALL BE PER AASHTO CLASS II STANDARD PATTERN (BOTH ENDS (TWO VALLEYS) AND MIDPOINT (THREE VALLEYS) OF PIPE STICK AND EVERY 45-DEGREES RADially AROUND PIPE). EACH PERFORATION LOCATION SHALL BE WRAPPED WITH NON-WOVEN GEOTEXTILE FABRIC ONE-FOOT BEYOND EACH PERFORATION.”.
 - l. **ADD** item 24a, SUBDRAIN CLEANOUT ADJUSTMENT
 - m. **ADD** Reference note B. to item 25 “INSTALL FLOWLINE A MINIMUM OF 36-INCHES BELOW FINISHED GRADE SURFACE.”.
 - n. **REVISE** Reference note B. for items 36 from “THIS ITEM SHALL INCLUDE ALL COSTS AND MATERIALS TO INSTALL INTAKE INSERT, WALLS, AND TOP ONTO EXISTING SW-508 STRUCTURES.” to “THIS ITEM SHALL INCLUDE ALL COSTS AND MATERIALS TO REMOVE EXISTING TOP AND INSTALL NEW INTAKE INSERT, WALLS, AND TOP ONTO EXISTING SW-508 STRUCTURES.”.
 - o. **REVISE** Reference note B. for items 37 from “THIS ITEM SHALL INCLUDE ALL COSTS AND MATERIALS TO INSTALL INTAKE INSERT, WALLS, AND TOP ONTO EXISTING SW-510 STRUCTURES.” to “THIS ITEM SHALL INCLUDE ALL COSTS AND MATERIALS TO REMOVE EXISTING TOP AND INSTALL NEW INTAKE INSERT, WALLS, AND TOP ONTO EXISTING SW-510 STRUCTURES.”.
11. **Plan Sheet C.03:** (Revised and **REISSUED** with this addendum)
- a. **ADD** note C. to item 50, “PIGMENTED PCC SHALL BE SOLOMON COLORS INC. 238 – THYME (MATCH EXISTING). SEE A.06 FOR LOCATIONS. APPROXIMATELY 56 SY OF PIGMENTED PCC.
12. **Plan Sheet C.04:** (Revised and **REISSUED** with this addendum)
- a. **ADD** item 117, BOLLARD, STEEL, 6 INCH DIA. GALVANIZED, WITH SLEEVE
 - b. **ADD** item 118, BOLLARD REMOVAL
 - c. **ADD** item 119, IRRIGATION REMOVAL
13. **Plan Sheet C.05:** (**ISSUED** with this addendum)
- a. **ADD** sheet in its entirety.
14. **Plan Sheet D.01:** (Revised and **REISSUED** with this addendum)
- a. **REVISE** removal note from 5,021 to 5,057.
 - b. **REVISE** removal note from 950 to 1,071.
 - c. **ADD** removal note for 175 SY of 4” PCC Pavement
 - d. **ADD** removal callout for existing sign and post.
15. **Plan Sheet D.02:** (Revised and **REISSUED** with this addendum)
- a. **REVISE** removal note from 950 to 1,071.
16. **Plan Sheet D.03:** (Revised and **REISSUED** with this addendum)
- a. **ADD** removal note for 5,057 SY of PCC Pavement.
 - b. **REVISE** removal note from “remove and salvage for reinstallation” to “remove”
 - c. **ADD** removal callout for existing signs and posts.

17. **Plan Sheet M.01:** (Revised and **REISSUED** with this addendum)
 - a. **ADD** storm sewer note
 - b. **ADD** storm structure S-22 to intake tabulation table
 - c. **REVISE** storm sewer pipe class and notes in tabulation table
 - d. **REVISE** structure type and quantities in tabulation table
18. **Plan Sheet M.02:** (Revised and **REISSUED** with this addendum)
 - a. **REVISE** Div. 1 & 2 (BASE BID) subdrain pipe total length in tabulation tables from “1733” to “3918”
19. **Plan Sheet M.16:** (Revised and **REISSUED** with this addendum)
 - a. **REVISE** Detail 01 to reference note 4 and **ADD** note 4 indicating trench width for rigid and flexible pipe.
20. **Plan Sheet P.21:** (**Revised** with this addendum)
 - a. **REVISE** HH-1 to MH-2 at intersection of concrete ductbank and conduit run to IPC-1.
21. **Plan Sheet P.61:** (**ISSUED** with this addendum)
 - a. **ADD** sheet in its entirety.
22. **Plan Sheet P.62:** (**ISSUED** with this addendum)
 - a. **ADD** sheet in its entirety.

END OF ADDENDUM



2024 PARKING LOT AND ROADWAY IMPROVEMENTS

Eastern Iowa Airport (CID)
Cedar Rapids, IA
Pre-Bid Meeting
February 5, 2024

EASTERN IOWA AIRPORT
FLYCID


 **Foth**

1

Welcome and Introductions

- ◆ Airport Staff:
 - ◆ Kathy Bell, Director of Finance & Administration
- ◆ Foth:
 - ◆ Eric Scott

Meeting Note: Pre-bid sign-in sheet is attached.

 **Foth**

2

Bidding

- ◆ Letting Date: Thursday, February 15, 2024 @ 2:00 PM (*local time*)
- ◆ Bid Requirements (*checklist – noted on Proposal Form*):
 - ◆ Bid Form, signed
 - ◆ Acknowledgement of Addenda (if applicable)
 - ◆ Targeted Small Business (TSB) Pre-Bid Contact Information Form 730007WP 7-97

- ◆ Bid Guarantee (Bid Bond): 5% of Bid
 - ◆ Submitted in a separate envelope



3

Bidding, Checklist

Check List for Submittal of Bids

- Signed Standard Form of Bid
- Acknowledgement of Addenda (if applicable)
- Targeted Small Business (TSB) Pre-Bid Contact Information Form 730007WP 7-97

- Bid Bond/Bid Security (sealed in a separate envelope) (5%)



4

Bidding, Bid Attachment

Form T30007ed
07/87

Contractor _____ Page # _____
 Project # _____
 County _____
 City _____

TARGETED SMALL BUSINESS (TSB) PRE-BID CONTACT INFORMATION

(To Be Completed By All Bidders Per The Current Contract Provision)

In order for your bid to be considered responsive, you are required to provide information on this form showing your Targeted Small Business contacts made with your bid submission. This information is subject to verification and confirmation.

In the event it is determined that the Targeted Small Business goals are not met, then before awarding the contract, the Contracting Authority will make a determination as to whether or not the apparent successful low bidder made good faith efforts to meet the goals.

NOTE: Every effort shall be made to solicit quotes or bids on as many subcontractable items as necessary to achieve the established goals. If a TSB's quote is used in the bid, it is assumed that the firm listed will be used as a subcontractor.

TABLE OF INFORMATION SHOWING BIDDERS PRE-BID
TARGETED SMALL BUSINESS (TSB) CONTACTS

SUBCONTRACTOR	TSB	DATES CONTACTED	QUOTES RECEIVED		QUOTATION USED IN BID	
			YES/NO	DATES CONTACTED	YES/NO	DOLLAR AMT. PROPOSED TO BE SUBCONTRACTED



5

Meeting Note: The Iowa DOT maintains a directory of Iowa certified TSB's to aid bidders in identifying TSBs and providing contact information to use to fill out the TSB pre-bid contact information form to be submitted with their bid.

Bidding, Bid Attachment, cont'd.

Iowa DOT DBE Directory: <https://www.iowaeda.com/small-business/targeted-small-business/>



6

Bidding, Bid Attachment, cont'd.

Iowa DOT DBE Directory: <https://www.iowaeda.com/small-business/targeted-small-business/>

TSB Type	None selected ▾	Business Name	<input type="text"/>
Product/Service Category	None selected ▾	Business Address	<input type="text"/>
Product/Service Description	<input type="text"/>	Business City	<input type="text"/>
NAICS Code	<input type="text"/>	County	None selected ▾
NAICS Link	NAICS Search	Business Zip	<input type="text"/>
NIGP Code	<input type="text"/>		
NIGP Link	NIGP Search		

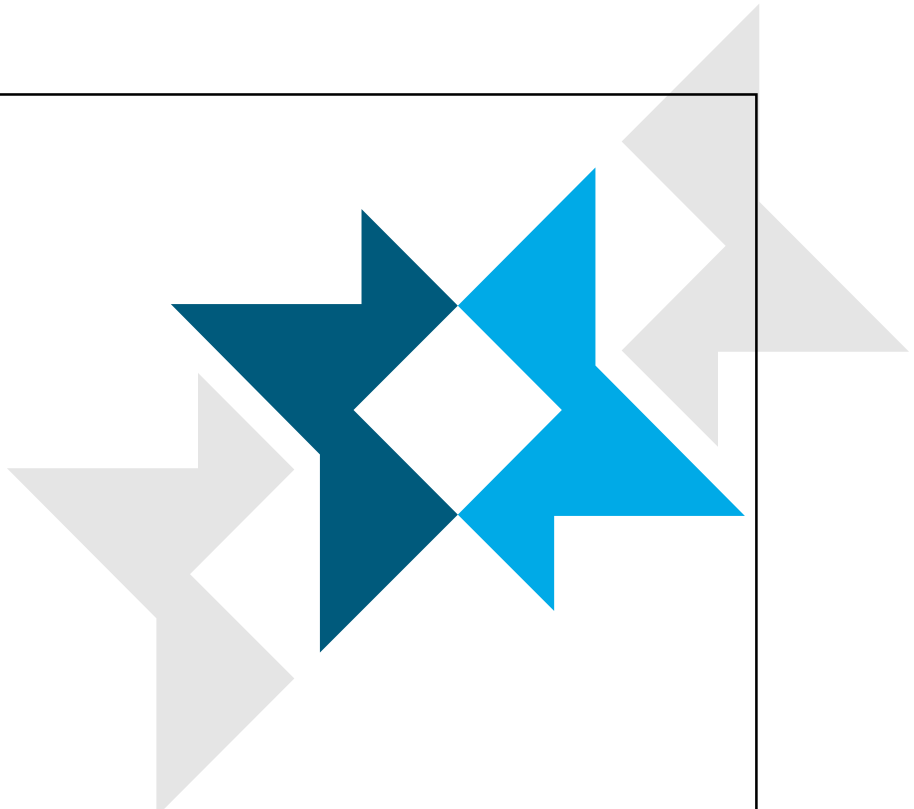
Search



7



General Project Overview



8

Construction Schedule

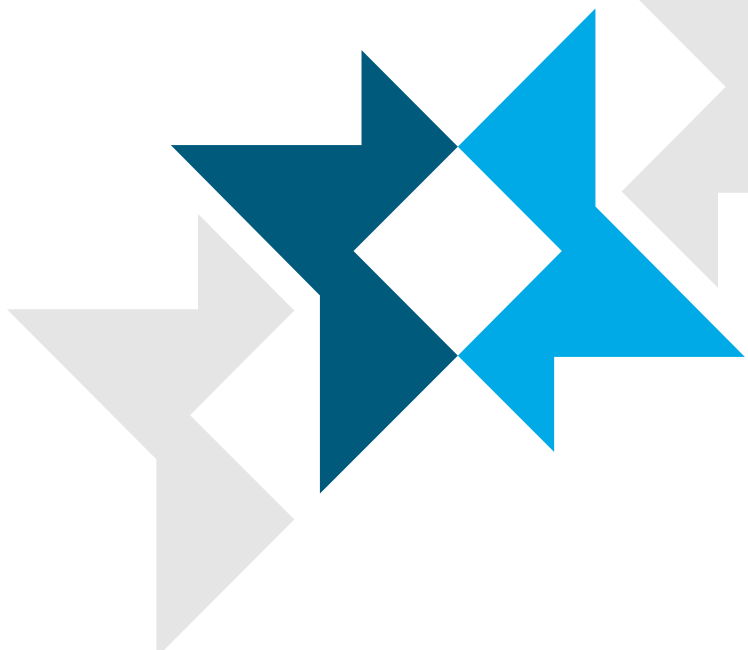
- ◆ Notice-of-Intent to Award – following February 26, 2024 Airport Commission Meeting
 - ◆ *Bonds, Insurance, Agreement submitted*
- ◆ Notice-to-Proceed
 - ◆ *No earlier than: following approval of properly executed contract documents*
- ◆ Late Start Date: April 1, 2024
- ◆ Complete within 198 Calendar Days, per the intermediate milestones
 - ◆ *This project is subject to Liquidated Damages as prescribed within the Project Manual*



11



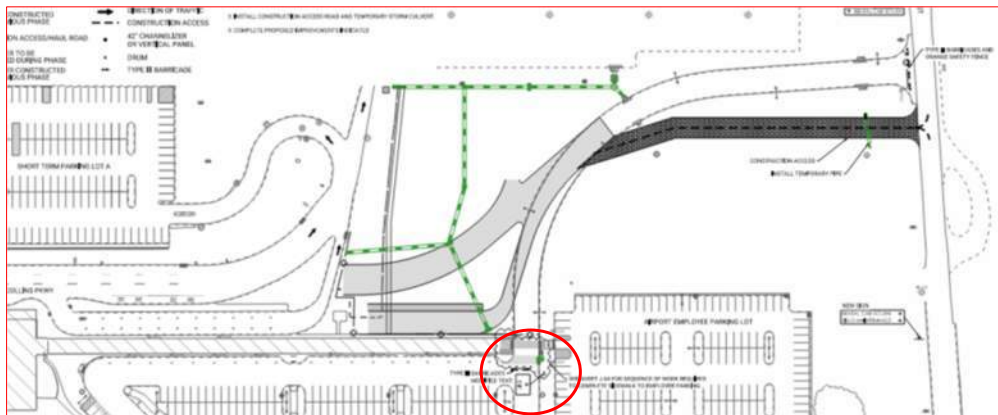
Construction Phasing, Staging, and Traffic Control



12

Phasing Overview – Phase 1, J.03

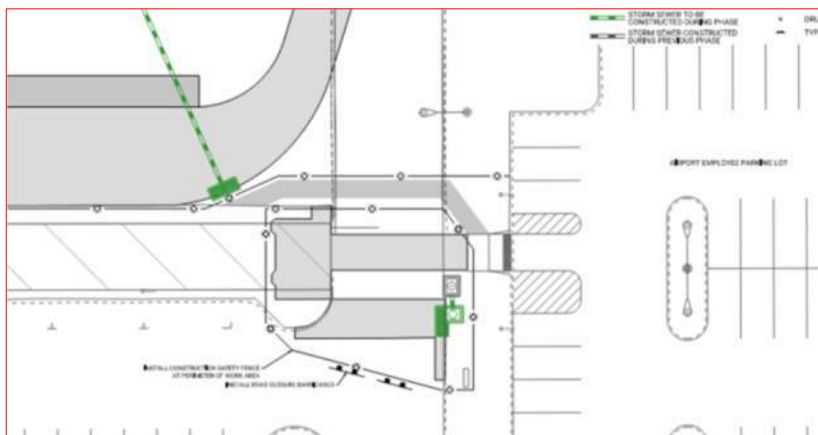
- ◆ Roadway Relocation
- ◆ Complete within 90 Calendar Days, inclusive of Phase 1A



13

Phasing Overview – Phase 1 Cont'd., J.04

- ◆ Maintain Pedestrian Access to Airport Employee Parking Lot



14

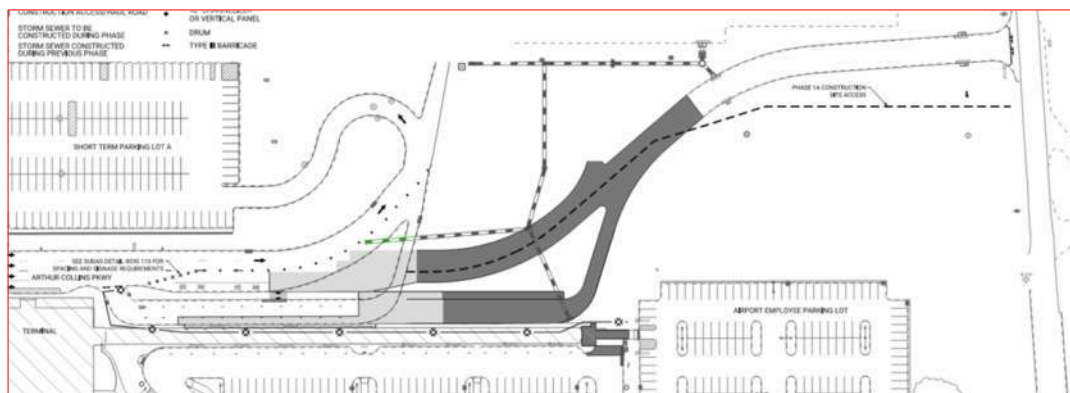
Construction Sequence – Phase 1

- ◆ Install revised roadway directional signage
- ◆ Install road closure barricades and construction safety fence
- ◆ Install construction access road
- ◆ Complete proposed roadway construction
- ◆ Complete sidewalk to existing Airport Employee Parking Lot

15

Phasing Overview – Phase 1A, J.05

- ◆ Roadway Relocation, connection to Arthur Collins Parkway
- ◆ Complete within 35 Calendar Days, within Phase 1 duration



16

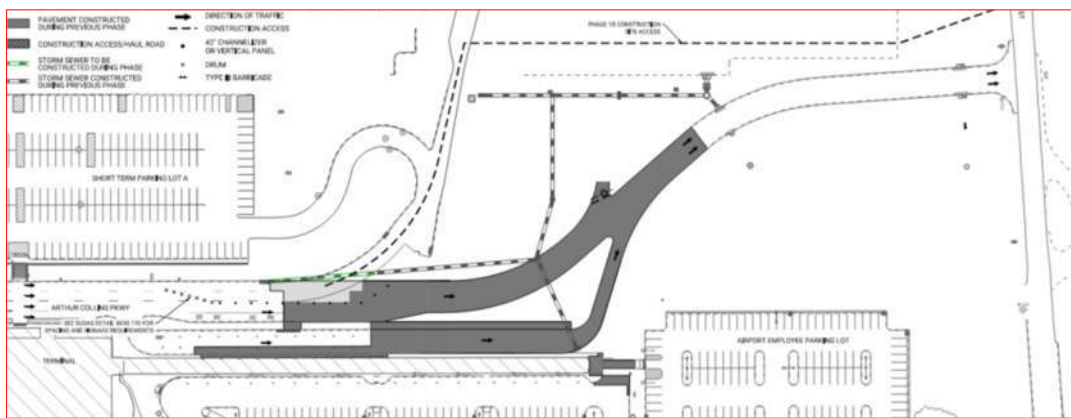
Construction Sequence – Phase 1A

- ◆ Install traffic control on Arthur Collins Parkway
- ◆ Complete proposed roadway connection construction

17

Phasing Overview – Phase 1B, J.06

- ◆ Roadway Relocation, connection to Arthur Collins Parkway, cont'd.
- ◆ Complete within 18 Calendar Days, following Phase 1 completion



18

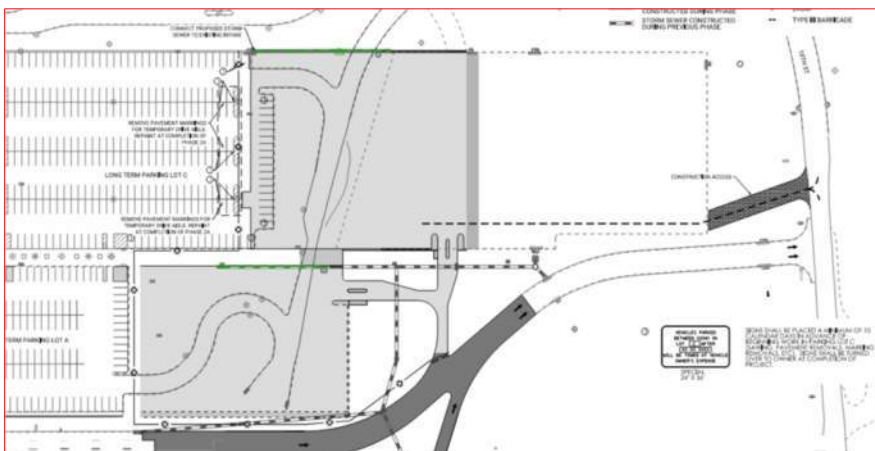
Construction Sequence – Phase 1B

- ◆ Revise traffic control on Arthur Collins Parkway
- ◆ Complete proposed roadway connection construction

19

Phasing Overview – Phase 2, J.07

- ◆ Parking Lot Construction
- ◆ Complete within 90 Calendar Days, following Phase 1B completion, inclusive of Phase 2A and 2B



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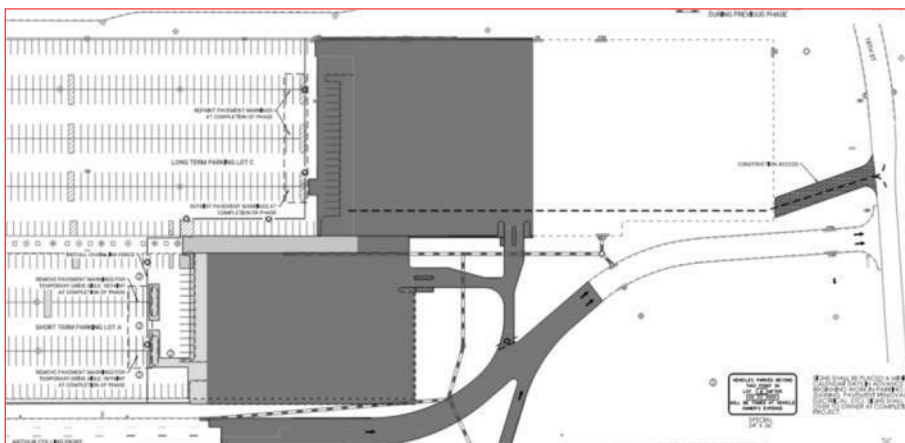
Construction Sequence – Phase 2

- ◆ Install advanced parking lot signage
- ◆ Install construction safety fence and road closure barricades
- ◆ Complete proposed parking lot construction

21

Phasing Overview – Phase 2A, J.08

- ◆ Parking Lot Construction, connection to Short Term
- ◆ Complete within Phase 2 duration



22

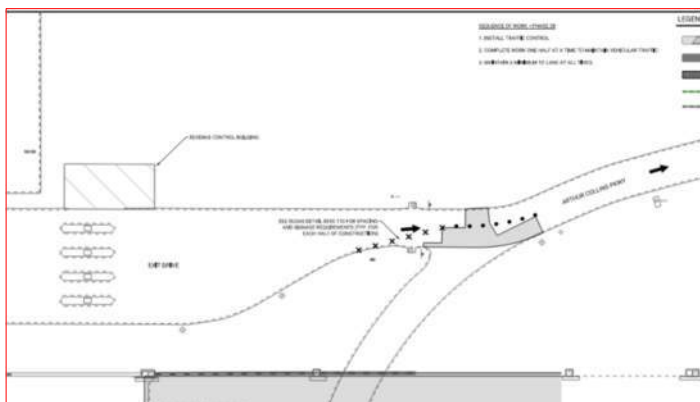
Construction Sequence – Phase 2A

- ◆ Install advanced parking lot signage
- ◆ Install construction safety fence
- ◆ Complete proposed parking lot construction

23

Phasing Overview – Phase 2B, J.09

- ◆ Roadway Reconstruction, Parking Lot Exit
- ◆ Complete within Phase 2 duration
- ◆ Maintain Vehicular Access



24

Construction Sequence – Phase 2B

- ◆ Install traffic control
- ◆ Complete proposed roadway construction

25

Phasing Overview – Pavement Re-Marking, J.11



- ◆ Parking Lot Re-marking
- ◆ Complete within 10 Calendar Days
- ◆ Complete concurrently with Phase 1 and/or Phase 2

26

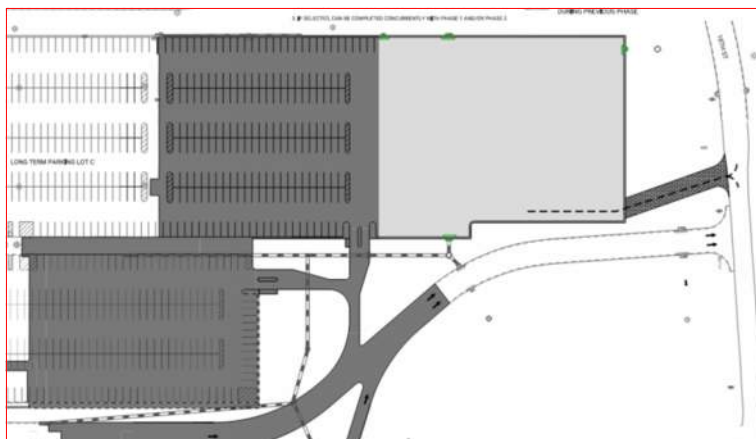
Construction Sequence –Pavement Re-Marking

- ◆ Install advanced parking lot signage
- ◆ Complete pavement re-markings & signage

27

Phasing Overview – Phase 3, J.10

- ◆ Parking Lot Construction, Bid Alternate 1
- ◆ If Selected, Complete concurrently with Phase 1 and/or Phase 2




28



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Safety and Security

- ◆ Chain link fence, orange construction barrier fence, and channelizers
 - ◆ At perimeter of work areas –adjacent to traffic and pedestrian areas
- ◆ FOD (Foreign Object Debris)

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30

Miscellaneous

- ◆ Questions must be received before 12:00 PM Friday February 9, 2024, Questions received after this date may not be answered
- ◆ Plan Holders List: Rapids Reproductions
- ◆ Final Bid Tab: Rapids Reproductions and Airport Website



31

Addenda Items

- ◆ Pre-bid presentation
- ◆ Contractor questions to date



32

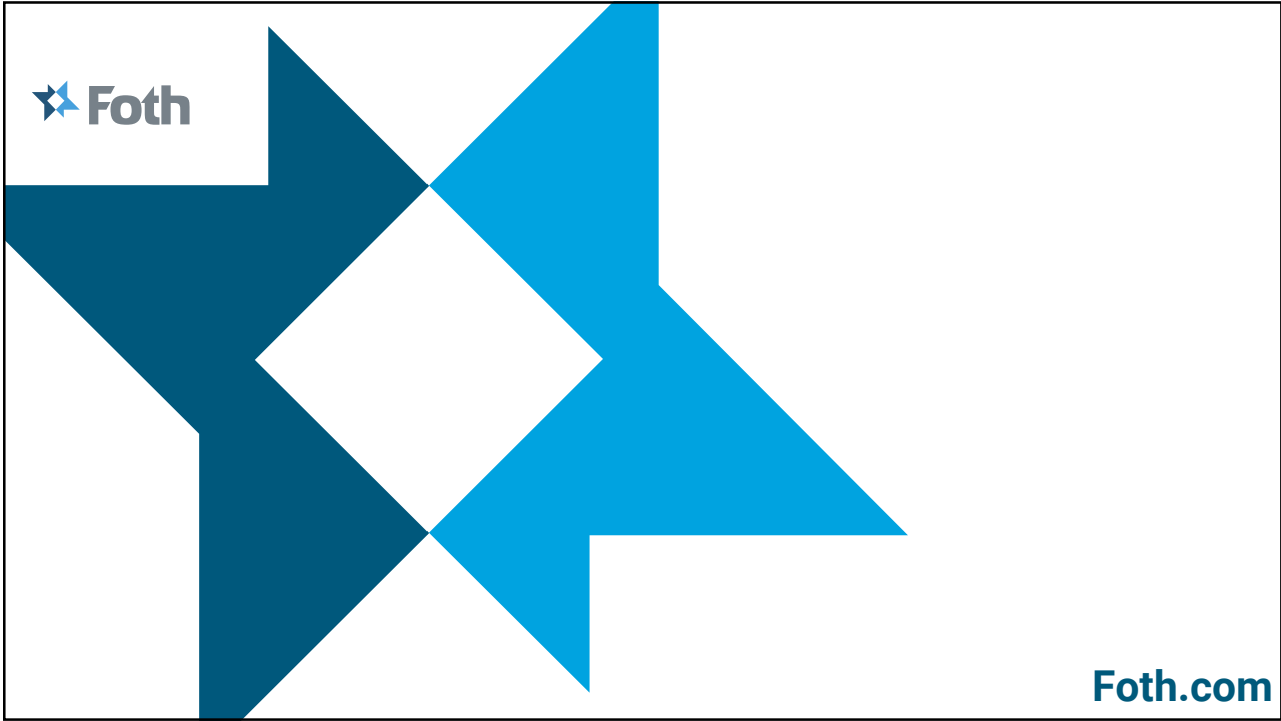


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**Questions and
Answers**

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Foth

Foth.com

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34



Sign-In Sheet

EASTERN IOWA AIRPORT 2024 PARKING LOT AND ROADWAY IMPROVEMENTS



Pre-Bid Meeting
February 5, 2024, 1:30 PM

NAME	FIRM	PHONE NUMBER	EMAIL	INITIALS
Kathy Bell	TEIA	319.731.5714	k.bell@flycid.com	KB
Todd Gibbs	TEIA	319.731.5718	t.gibbs@flycid.com	
Jonathan Ron	TEIA	319.731.5722	j.Ron@flycid.com	
Eric Scott	Foth	319.297.2069	eric.scott@foth.com	ES
Dillon Schiltz	Foth	319.297.2076	dillon.schiltz@foth.com	DS
Cortney Graber	Foth	319.297.2093	cortney.graber@foth.com	
Nathan Coffelt	Foth	319.430.0288	nathan.coffelt@foth.com	NC
Craig Albrecht	METRO	319-351-2200	Craig@METRO-PAYORS.com	
Mitch Ramler	Pirc-Tobin	563-590-9105	Mramler@pirc-tobin.com	MR
J.J. Cook	Cook Const Iowa	563-380-6065	j.cook@cookconstructioniowa.com	JC
Nate Phillips	Newmiller Elec.	641 224 2958	nate@newmillerelectric.com	
Adam Pfab	Rathje Construction	319-377-3179	apfab@rathjeconstruction.com	AP
Josh Hill	PCI	319-243-8047	joshh@pci.us.com	JH
Greg Merz	Home Electric	319 365 8677	gmerz@acmeelectric.com	GM
Matthew Koopmann	Eggleston Concrete (contractors)	319 899 4545	matthew@egglestonconcrete.com	MK



TROY MERTENS	STREB	(319) 631-4635	TROY@STREB(OR)STUNCTION.COM	Tm

SECTION 000410
BID FORM – ADDENDUM 1 REVISED

2024 PARKING LOT AND ROADWAY IMPROVEMENTS
THE EASTERN IOWA AIRPORT

TO: The Cedar Rapids Airport Commission
2515 Arthur Collins Parkway SW
Cedar Rapids, Iowa 52404

The undersigned bidder has carefully examined the work described herein, has become familiar with the character and extent of the work; has carefully examined the Specifications which are acknowledged to be a part of this Invitation for Bid, the Bid form, the form of Contract, and the form of Contract Bond; and thoroughly understands their stipulations, requirements and provisions.

The undersigned bidder has determined the quality and quantity of materials required; determined the sources of supply of the materials required; has investigated labor conditions; and has arranged for the continuous prosecution of the work herein described.

The undersigned bidder further agrees to provide all necessary equipment, tools, labor, incidentals and other means of construction to do all the work, and furnish all the materials of the specified requirements which are necessary to complete the work in accordance with the Bid and the Specifications.

The undersigned bidder declares that this Bid is made without connection with any other person or persons making Bids for the same work, and is in all respects fair and without collusion or fraud.

The work proposed to be accomplished under this project consists of the construction of the 2024 Parking Lot and Roadway Improvements.

In submitting this bid, the bidder has examined copies of all the bid documents and the following Addenda (receipt of which is hereby acknowledged);

DATE OF ADDENDA	ADDENDUM NUMBER
_____	_____
_____	_____
_____	_____
_____	_____

Contract award will be made based on the Total Base Bid plus any Alternates, which are added to or deducted from the Total Base Bid. Owner reserves the right to accept or reject Alternates to the Total Base Bid and to award on any combination of the Total Base Bid and Alternates. The Owner's ultimate inclusion of Bid Alternate 1 Work is cost based and the acceptance or rejection of Bid Alternate 1 Work will be determined during the period of review following the bid opening.

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Item No.	Item Code	Description	Division 1 - RISE Participating Quantity	Division 2 - Non-RISE Participating Quantity	TOTAL QUANTITY	Unit	Unit Price	Extension
BASE BID								
1	2010	CLEARING AND GRUBBING	0.26	0.74	1	LS	\$	/LS \$
2	2010	TOPSOIL, STRIP, SALVAGE, AND RESPREAD	880	3,035	3,915	CY	\$	/CY \$
3	2010	EXCAVATION, CLASS 13	4,219	14,972	19,191	CY	\$	/CY \$
4	2010	DETENTION BASIN RIP-RAP REMOVAL	0	1,338	1,338	CY	\$	/CY \$
5	2010	SUBGRADE PREPARATION, 6 IN.	453	829	1,282	SY	\$	/SY \$
6	2010	SUBGRADE PREPARATION, 12 IN.	3,938	15,015	18,953	SY	\$	/SY \$
7	2010	MODIFIED SUBBASE, 6 IN.	453	829	1,282	SY	\$	/SY \$
8	2010	MODIFIED SUBBASE, 8 IN.	0	178	178	SY	\$	/SY \$
9	2010	MODIFIED SUBBASE, 12 IN.	3,938	15,015	18,953	SY	\$	/SY \$
10	2010	MODIFIED SUBBASE, VARIABLE DEPTH (0-6 IN.)	0	416	416	SY	\$	/SY \$
11	2010	2 IN. NOMINAL DEPTH MODIFIED SUBBASE	0	600	600	TONS	\$	/TONS \$
12	2010	QUALITY ASSURANCE MATERIAL TESTING	0.26	0.74	1	LS	\$	/LS \$
13	4020	STORM SEWER, TRENCHED, SDR 26, 12 IN.	0	440	440	LF	\$	/LF \$
14	4020	STORM SEWER, TRENCHED, 15 IN., WITH AGGREGATE BACKFILL	424	0	424	LF	\$	/LF \$
15	4020	STORM SEWER, TRENCHED, 18 IN., WITH AGGREGATE BACKFILL	0	144	144	LF	\$	/LF \$
16	4020	STORM SEWER, TRENCHED, 24 IN., WITH AGGREGATE BACKFILL	7	81	88	LF	\$	/LF \$
17	4020	STORM SEWER, TRENCHED, 30 IN.	68	20	88	LF	\$	/LF \$
18	4020	STORM SEWER, TRENCHED, 30 IN., WITH AGGREGATE BACKFILL	120	0	120	LF	\$	/LF \$
19	4020	STORM SEWER, TRENCHED, 36 IN.	0	304	304	LF	\$	/LF \$
20	4020	STORM SEWER, TRENCHED, 36 IN., WITH AGGREGATE BACKFILL	0	80	80	LF	\$	/LF \$
21	4020	REMOVAL OF STORM SEWER, LESS THAN OR EQUAL TO 36 IN.	218	1,260	1,478	LF	\$	/LF \$
22	4020	REMOVAL OF STORM SEWER, 6 IN. SUBDRAIN SUBDRAIN AND FITTINGS, 6 IN. CORRUGATED PVC, PERFORATED (CASE B & C, TYPE 1)	491	600	1,091	LF	\$	/LF \$
23	4040	SUBDRAIN CLEANOUT (TYPE A-1 MODIFIED)	824	3,094	3,918	EA	\$	/EA \$
24	4040	SUBDRAIN CLEANOUT (TYPE A-1 MODIFIED)	0	14	14	EA	\$	/EA \$
24a	4040	SUBDRAIN CLEANOUT ADJUSTMENT	0	7	7	EA	\$	/EA \$
25	4040	ROOF DRAIN, SDR 26 PVC, 10 IN.	423	0	423	LF	\$	/LF \$
26	4040	DOWNSPOUT BOOT, INSTALL ONLY	5	0	5	EA	\$	/EA \$
27	CR-5910	WATER MAIN REMOVAL, 8 IN.	0	77	77	LF	\$	/LF \$
28	CR-5920	REMOVAL OF FIRE HYDRANT	0	1	1	EA	\$	/EA \$
29	6010	MANHOLE, SW-401, 72 IN.	0	1	1	EA	\$	/EA \$
30	6010	INTAKE, SW-402M, 5' X 5'	1	0	1	EA	\$	/EA \$
31	6010	INTAKE, SW-502M 60 IN.	1	0	1	EA	\$	/EA \$
32	6010	INTAKE, SW-505	2	2	4	EA	\$	/EA \$
33	6010	INTAKE, SW-505M	1	0	1	EA	\$	/EA \$
34	6010	INTAKE, SW-506	1	0	1	EA	\$	/EA \$
35	6010	INTAKE, SW-508	0	1	1	EA	\$	/EA \$
36	6010	INTAKE, SW-508M, INSERT, WALLS, AND TOP ONLY	0	1	1	EA	\$	/EA \$
37	6010	INTAKE, SW-510M, INSERT, WALLS, AND TOP ONLY	0	0	0	EA	\$	/EA \$
38	6010	INTAKE, SW-511	0	1	1	EA	\$	/EA \$
39	6010	MANHOLE ADJUSTMENT, MINOR	0	1	1	EA	\$	/EA \$
40	6010	INTAKE ADJUSTMENT, REPLACE INTAKE TOP WITH SW-602 CASTING TOP	1	0	1	EA	\$	/EA \$
41	6010	CONNECTION TO EXISTING INTAKE	2	7	9	EA	\$	/EA \$
42	6010	REMOVE AND REPLACE INTAKE FILLET	0	2	2	EA	\$	/EA \$
43	6010	REMOVAL, INTAKE OR MANHOLE	2	15	17	EA	\$	/EA \$
44	7010	CONCRETE MEDIAN, PCC, 4 IN.	0	207	207	SY	\$	/SY \$
45	7010	PAVEMENT, PCC, CLASS C, CLASS 3 DURABILITY, 6 IN.	0	13,565	13,565	SY	\$	/SY \$
46	7010	PAVEMENT, PCC, CLASS C, CLASS 3 DURABILITY, REINFORCED, 6 IN.	0	84	84	SY	\$	/SY \$
47	7010	PAVEMENT, PCC, CLASS C, CLASS 3 DURABILITY, 8 IN.	3,293	478	3,771	SY	\$	/SY \$
48	7010	PAVEMENT, PCC, CLASS C, CLASS 3 DURABILITY, REINFORCED, 8 IN.	198	176	374	SY	\$	/SY \$
49	7010	PCC PAVEMENT SAMPLING AND TESTING	0.26	0.74	1	LS	\$	/LS \$
50	7030	PAVEMENT, PCC, CLASS C, SIDEWALK, 4 IN.	496	951	1,447	SY	\$	/SY \$
51	7030	DETECTABLE WARNINGS	16	24	40	SF	\$	/SF \$
52	7040	SIDEWALK REMOVAL	355	103	458	SY	\$	/SY \$
53	7040	PAVEMENT REMOVAL	2,305	3,905	6,210	SY	\$	/SY \$

54	7060	BITUMINOUS SEAL COAT, 3/8" AGGREGATE	0	416	416	SY	\$	/SY	\$
55	7091	FULL DEPTH RECLAMATION, SEALCOAT PARKING, 4 IN.	0	0	0	SY	\$	/SY	\$
56	8010	TYPE A SIGNS, SHEET ALUMINUM	100	143	243	SF	\$	/SF	\$
57	8010	PARKING LOT SIGN, INSTALLED ON LIGHT POLE	0	6	6	EA	\$	/EA	\$
58	8010	REMOVE EXISTING SIGN	3	12	15	EA	\$	/EA	\$
59	8010	DETECTOR LOOP (CAST IN PLACE)	0	8	8	EA	\$	/EA	\$
60	8020	PAINT MARKING REMOVAL, WATER BLASTING	0	1,750	1,750	LF	\$	/LF	\$
61	8020	THERMOPLASTIC SYMBOLS & LEGENDS, INCLUDING GROOVING	2	20	22	EA	\$	/EA	\$
62	8020	PAINTED PAVEMENT MARKINGS, WATERBORNE	922	11,800	12,722	LF	\$	/LF	\$
63	8030	TEMPORARY TRAFFIC CONTROL	0.26	0.74	1	LS	\$	/LS	\$
64	8030	PERFORATED 2' x 2" SQUARE STEEL TUBE POST	205	270	475	LF	\$	/LF	\$
65	8030	4" X 4" SQUARE WOODEN POST	28	134	162	LF	\$	/LF	\$
66	9010	CONVENTIONAL SEEDING, SEEDING, FERTILIZING, AND MULCHING, TYPE 1	1	3	4	ACRE	\$	/ACRE	\$
67	9010	CONVENTIONAL SEEDING, SEEDING, FERTILIZING, AND MULCHING, TYPE 2	1.50	0.00	1.50	ACRE	\$	/ACRE	\$
68	9010	STORMWATER POLLUTION PREVENTION PLAN, (SWPPP), MANAGEMENT	0.26	0.74	1	LS	\$	/LS	\$
69	9040	EROSION CONTROL MULCHING, CONVENTIONAL OR HYDROMULCHING	0.5	0.5	1	ACRE	\$	/ACRE	\$
70	9040	INSTALLATION AND REMOVAL OF SILT FENCE	300	2,250	2,550	LF	\$	/LF	\$
71	9040	INLET PROTECTION DEVICE	6	16	22	EA	\$	/EA	\$
72	9040	RIP RAP - CLASS E REVETMENT STONE	0	40	40.0	TONS	\$	/TONS	\$
73	9040	STABILIZED CONSTRUCTION ENTRANCE	0.26	0.74	1.0	LS	\$	/LS	\$
74	11020	MOBILIZATION	0.26	0.74	1	LS	\$	/LS	\$
75	11050	CONCRETE WASHOUT	0.26	0.74	1	LS	\$	/LS	\$
76		RETAINING WALL REMOVAL	375	675	1,050	SF	\$	/SF	\$
77		SPECIALTY ROADWAY SIGN AND BASE REMOVAL	1	1	2	EA	\$	/EA	\$
78		EXISTING SPECIALTY ROADWAY SIGN, EDIT TEXT, INSTALL ON NEW POSTS	1	1	2.0	EA	\$	/EA	\$
79		EXISTING SPECIALTY ROADWAY SIGN, EDIT TEXT	0	5	5	EA	\$	/EA	\$
80		EXISTING SPECIALTY ROADWAY SIGN, RELOCATE PANEL	0	2	2	EA	\$	/EA	\$
81		PLANTER REMOVAL	0	2	2	EA	\$	/EA	\$
82	DIVISION 26	CONDUIT REMOVAL, ALL SIZES, CIRCUIT REMOVAL INCIDENTAL	1,850	4,070	5,920	LF	\$	/LF	\$
83	DIVISION 26	REMOVE EXISTING HANDHOLE	11	15	26	EA	\$	/EA	\$
84	DIVISION 26	LIGHT POLE, WOOD, REMOVAL	0	2	2	EA	\$	/EA	\$
85	DIVISION 26	LIGHT POLE AND BASE REMOVAL	4	9	13	EA	\$	/EA	\$
86	DIVISION 26	LIGHT, S1 - DOUBLE FIXTURE @180 DEGREES, NEW BASE (PARKING)	0	4	4	EA	\$	/EA	\$
87	DIVISION 26	LIGHT, S1A - SALVAGED DOUBLE FIXTURE @180 DEGREES, NEW POLE, NEW BASE (PARKING)	0	2	2	EA	\$	/EA	\$
88	DIVISION 26	LIGHT, S2 - SINGLE FIXTURE, NEW POLE, NEW BASE (ROADWAY)	5	2	7	EA	\$	/EA	\$
89	DIVISION 26	LIGHT, S3 - SINGLE FIXTURE, NEW POLE, NEW BASE (WALKWAY)	0	4	4	EA	\$	/EA	\$
90	DIVISION 26	1 WAY 1.5 IN. PVC CONDUIT, DIRECT BURIED	0	574	574	LF	\$	/LF	\$
91	DIVISION 26	1 WAY 2 IN. PVC CONDUIT, DIRECT BURIED	1,137	2,069	3,206	LF	\$	/LF	\$
92	DIVISION 26	2 WAY 2 IN. CONDUIT, DIRECT BURIED	0	198	198	LF	\$	/LF	\$
93	DIVISION 26	2 WAY 2 IN. PVC CONDUIT, DIRECTIONAL BORE	0	133	133	LF	\$	/LF	\$
94	DIVISION 26	1 WAY 3 IN. PVC CONDUIT, DIRECT BURIED	0	163	163	LF	\$	/LF	\$
95	DIVISION 26	4 WAY 4 IN. PVC CONDUIT, DIRECTIONAL BORE	0	128	128	LF	\$	/LF	\$
96	DIVISION 26	1 WAY 3 IN. PVC CONDUIT + 1 WAY 2 IN. PVC CONDUIT, CONCRETE ENCASED	0	84	84	LF	\$	/LF	\$
97	DIVISION 26	2 WAY 3 IN. PVC CONDUIT + 1 WAY 2 IN. PVC CONDUIT, CONCRETE ENCASED	0	62	62	LF	\$	/LF	\$
98	DIVISION 26	3 WAY 3 IN. PVC CONDUIT + 1 WAY 2 IN. PVC CONDUIT, CONCRETE ENCASED	0	79	79	LF	\$	/LF	\$
99	DIVISION 26	5 WAY 3 IN. PVC CONDUIT + 2 WAY 2 IN. PVC CONDUIT, CONCRETE ENCASED	0	73	73	LF	\$	/LF	\$
100	DIVISION 26	6 WAY 3 IN. PVC CONDUIT + 2 WAY 2 IN. PVC CONDUIT, CONCRETE ENCASED	0	124	124	LF	\$	/LF	\$
101	DIVISION 26	7 WAY 3 IN. PVC CONDUIT + 2 WAY 2 IN. PVC CONDUIT, CONCRETE ENCASED	0	73	73	LF	\$	/LF	\$
102	DIVISION 26	(3) NO. 4/0, (1) NO. 4 EGC, AND (1) NO. 2 GEC, INSTALLED IN CONDUIT	0	701	701	LF	\$	/LF	\$
103	DIVISION 26	(3) NO. 6 AND (1) NO. 10 EGC, INSTALLED IN CONDUIT	0	676	676	LF	\$	/LF	\$
104	DIVISION 26	(2) NO. 6 AND (1) NO. 6 EGC, INSTALLED IN CONDUIT	1,421	1,121	2,542	LF	\$	/LF	\$
105	DIVISION 26	(2) NO. 8 AND (1) NO. 8 EGC, INSTALLED IN CONDUIT	0	2,498	2,498	LF	\$	/LF	\$
106	DIVISION 26	ELECTRICAL PRECAST HANDHOLE AND CASTING, HH-1	4	8	12	EA	\$	/EA	\$
107	DIVISION 26	ELECTRICAL PRECAST MANHOLE AND CASTING, 5' X 5', MH-1	0	2	2	EA	\$	/EA	\$
108	DIVISION 26	PACKAGED POWER CENTER W/ TRANSFORMER, MPC-1	0	1	1	EA	\$	/EA	\$

109	DIVISION 27	REMOVE AND REINSTALL EXISTING FIBER	0	1,060	1,060	LF	\$	/LF	\$
110	DIVISION 27	FIBER OPTIC CABLE, 6-STRAND, MULTI-MODE	0	480	480	LF	\$	/LF	\$
111	DIVISION 27	NEMA RATED STEEL ENCLOSURE W/ MOUNTING PLATE, COMPLETE	0	1	1	EA	\$	/EA	\$
112	SUPPLEMENTAL	BARRIER, ORNAMENTAL POST AND CHAIN	0	270	270	LF	\$	/LF	\$
113	SUPPLEMENTAL	VEHICLE TOW	0	40	40	EA	\$	/EA	\$
114		ALLOWANCE - IRRIGATION	0.26	0.74	1	ALL	\$ 50,000.00	/ALL	\$ 50,000
115		ALLOWANCE - GATE ACCESS CONTROL EQUIPMENT RELOCATION	0	1	1	ALL	\$ 10,000.00	/ALL	\$ 10,000
116		ALLOWANCE - DOWNSPOUT BOOT	1	0	1	ALL	\$ 5,000.00	/ALL	\$ 5,000
117		BOLLARD, STEEL, 6 INCH DIA, GALVANIZED, WITH SLEEVE	0	12	12	EA		/EA	\$
118		BOLLARD REMOVAL	0	12	12	EA		/EA	\$
119		IRRIGATION REMOVAL	0	1	1	LS		/LS	\$

TOTAL BASE BID (Items 1-119)

(use figures)

(state amount using words)

Item No.	Item Code	Description	Division 3 - Bid Alternate 1 Quantity	Unit	Unit Price		Extension
BID ALTERNATE 1							
A2	2010	TOPSOIL, STRIP, SALVAGE, AND RESPREAD	1,160	CY	\$	/CY	\$
A3	2010	EXCAVATION, CLASS 13	1,240	CY	\$	/CY	\$
A6	2010	SUBGRADE PREPARATION, 12 IN.	8,475	SY	\$	/SY	\$
A8	2010	MODIFIED SUBBASE, 8 IN.	289	SY	\$	/SY	\$
A9	2010	MODIFIED SUBBASE, 12 IN.	8,475	SY	\$	/SY	\$
A11	2010	2 IN. NOMINAL DEPTH MODIFIED SUBBASE	1,335	SY	\$	/SY	\$
A12	2010	QUALITY ASSURANCE MATERIAL TESTING	1	LS	\$	/LS	\$
A23	4040	SUBDRAIN AND FITTINGS, 6 IN. CORRUGATED PVC, PERFORATED (CASE B & C, TYPE 1)	1,452	LF	\$	/LF	\$
A24	4040	SUBDRAIN CLEANOUT (TYPE A-1 MODIFIED)	6	EA	\$	/EA	\$
A36	6010	INTAKE, SW-508M, INSERT, WALLS, AND TOP ONLY	1	EA	\$	/EA	\$
A37	6010	INTAKE, SW-510M, INSERT, WALLS, AND TOP ONLY	2	EA	\$	/EA	\$
A44	7010	CONCRETE MEDIAN, PCC, 4 IN.	192	SY	\$	/SY	\$
A45	7010	PAVEMENT, PCC, CLASS C, CLASS 3 DURABILITY, 6 IN.	8,011	SY	\$	/SY	\$
A46	7010	PAVEMENT, PCC, CLASS C, CLASS 3 DURABILITY, REINFORCED, 6 IN.	73	SY	\$	/SY	\$
A49	7010	PCC PAVEMENT SAMPLING AND TESTING	1	LS	\$	/LS	\$
A55	7091	FULL DEPTH RECLAMATION, SEALCOAT PARKING, 4 IN.	8,089	SY	\$	/SY	\$
A56	8010	TYPE A SIGNS, SHEET ALUMINUM	6	SF	\$	/SF	\$
A57	8010	PARKING LOT SIGN, INSTALLED ON LIGHT POLE	4	EA	\$	/EA	\$
A62	8020	PAINTED PAVEMENT MARKINGS, WATERBORNE	6,247	LF	\$	/LF	\$
A64	8030	PERFORATED 2" x 2" SQUARE STEEL TUBE POST	11	LF	\$	/LF	\$
A66	9010	CONVENTIONAL SEEDING, SEEDING, FERTILIZING, AND MULCHING, TYPE 1	0.1	ACRE	\$	/ACRE	\$
A82	DIVISION 26	CONDUIT REMOVAL, ALL SIZES, CIRCUIT REMOVAL INCIDENTAL	380	LF	\$	/LF	\$
A84	DIVISION 26	LIGHT POLE, WOOD, REMOVAL	5	EA	\$	/EA	\$
A87	DIVISION 26	LIGHT, S1A - SALVAGED DOUBLE FIXTURE @180 DEGREES, NEW POLE, NEW BASE (PARKING)	4	EA	\$	/EA	\$
A91	DIVISION 26	1 WAY 2 IN. PVC CONDUIT, DIRECT BURIED	536	LF	\$	/LF	\$
A105	DIVISION 26	(2) NO. 8 AND (1) NO. 8 EGC, INSTALLED IN CONDUIT	670	LF	\$	/LF	\$

TOTAL ALTERNATE 1 BID (Items A2-A105)

(use figures)

(state amount using words)

ACKNOWLEDGEMENTS BY BIDDER

- a. By submittal of a proposal, the BIDDER acknowledges and accepts that the quantities established by the OWNER are an approximate estimate of the quantities required to fully complete the Project and that the estimated quantities are principally intended to serve as a basis for evaluation of bids. The BIDDER further acknowledges and accepts that payment under this contract will be made only for actual quantities and that quantities will vary.
- b. The BIDDER acknowledges that each the individual documents that comprise the Bid Documents are complementary to one another and together establishes the complete terms, conditions and obligations of the successful BIDDER.
- c. As evidence of good faith in submitting this proposal, the undersigned encloses a bid guaranty in the form of a certified check or bid bond in the amount of **5%** of the bid price. The BIDDER acknowledges and accepts that refusal or failure to accept award and execute a contract within the terms and conditions established herein will result in forfeiture of the bid guaranty to the owner as a liquidated damage.
- d. The BIDDER acknowledges and accepts the OWNER'S right to reject any or all bids and to waive any minor informality in any Bid or solicitation procedure.
- e. The BIDDER acknowledges and accepts the OWNER'S right to hold all Proposals for purposes of review and evaluation and not issue a notice-of-award for a period not to exceed **30** calendar days from the stated date for receipt of bids.
- f. **It is the intent of the OWNER, after a period of review and evaluation, to award a contract to the responsible bidder that submits the lowest responsive proposal. The successful bidder will be informed their bid has been accepted through the OWNER's issuance of Notice-of-Award. The Notice-of-Award shall not be construed as a binding agreement. The proper execution of contract agreement shall serve as the binding agreement.**
- g. Time of Performance: By submittal of this proposal, the undersigned acknowledges and agrees to commence work within ten (10) calendar days of the date specified in the written "Notice-to-Proceed" as issued by the OWNER. The undersigned further agrees to complete the Project within the requirements described in the General Conditions, Supplementary Conditions and the Bid Documents.
- h. The undersigned acknowledges the Contractor shall pay non-penal amounts as liquidated damages to the OWNER for the time Project and Project Milestones remain incomplete beyond the contract time of performance, as detailed below and as further described in the General Conditions and the Bidding Documents. Bidder further acknowledges that separate sums of liquidated damages will be assessed for each of the conditions described hereinbefore, and they shall be cumulative if multiple conditions have not been satisfied.
- i. The BIDDER acknowledges the existence of "stay-at-home", "shelter-in-place" and similar public health orders and travel advisories around the country that have the potential to limit the availability of certain equipment, materials, supplies, and labor, and has prepared this bid with knowledge of these limitations. BIDDER acknowledges that any such limitations resulting from current public health orders and travel advisories are foreseeable and will not render performance under the contract impossible, nor will the BIDDER request changes in compensation or schedule for said limitations in existence at time of bid.
- j. The BIDDER acknowledges that, at the time of bid, most public health orders that have been imposed consider airport operations and public works construction as essential.
- k. Should any new, extended or modified public health order or travel advisory cause material supply chain or labor disruption that was not in existence or foreseeable at the time of bid, BIDDER will be required to present written documentation of the new or changed condition in any request for a change in schedule or compensation.
- l. In no event shall BIDDER declare a Force Majeure event without demonstrating that the claimed event outside the parties' control was not in existence at the time of bid and unforeseeable at the time of bid, and has rendered BIDDER's performance impossible.

PROPOSAL OF _____
NAME _____
ADDRESS _____
CONTACT PERSON _____ PHONE _____
EMAIL _____

ACKNOWLEDGEMENT

WITNESS Our Hands and seals this _____ day of _____, 20__.

Individual) _____
or) _____
Partner-) _____
ship) _____
Execution) Co-partners doing business under the name and style of:
) _____
) _____
) _____
) _____
) _____
) _____
) _____
) A Corporation of the State of: _____
Corporate) _____
Execution) _____
) By _____
) _____
) Title _____
) _____
Corporate) _____
Seal) _____
) By _____
) _____
) Title _____
) _____

NOTE: THIS FORM MUST BE COMPLETED AND SIGNED AS PART OF BID.

Check List for Submittal of Bids

- Signed Standard Form of Bid
- Acknowledgement of Addenda (if applicable)
- Targeted Small Business (TSB) Pre-Bid Contact Information Form 730007WP 7-97

- Bid Bond/Bid Security (sealed in a separate envelope) (5%)

END OF SECTION

SECTION 012100 ALLOWANCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements governing allowances.
 - 1. Certain items are specified in the Contract Documents by allowances. Allowances have been established in lieu of additional requirements and to defer selection of actual materials and equipment to a later date when additional information is available for evaluation. If necessary, additional requirements will be issued by Change Order.
- B. Types of allowances include the following:
 - 1. Lump-sum allowances.
- C. Related Sections include the following:
 - 1. None

1.3 SELECTION AND PURCHASE

- A. At the earliest practical date after award of the Contract, advise Engineer of the date when final selection and purchase of each product or system described by an allowance must be completed to avoid delaying the Work.
- B. At Engineer's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work.
- C. Purchase products, systems and services selected by Engineer from the designated supplier.

1.4 SUBMITTALS

- A. Submit proposals for purchase of products or systems included in allowances, in the form specified for Change Orders.
- B. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.
- C. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

1.5 COORDINATION

- A. Coordinate allowance items with other portions of the Work. Furnish templates as required to coordinate installation.

1.6 LUMP-SUM ALLOWANCES

- A. Allowance shall include cost to Contractor of specific products and materials ordered by Owner or as selected by Engineer under allowance and shall include taxes, freight, and delivery to Project site.

- B. Unless otherwise indicated, Contractor's costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar costs related to products and materials ordered by Owner or as selected by Engineer under allowance shall be included as part of the Contract Sum and not part of the allowance.

1.7 ADJUSTMENT OF ALLOWANCES

- A. Allowance Adjustment: To adjust allowance amounts, prepare a Change Order proposal based on the difference between actual cost of this portion of the Work amount and the allowance, multiplied by final measurement of work-in-place, where applicable.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine products covered by an allowance promptly on delivery for damage or defects. Return damaged or defective products to manufacturer for replacement.

3.2 PREPARATION

- A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

3.3 SCHEDULE OF ALLOWANCES

- A. Allowance No. 012100-1: Irrigation
 - 1. Include a Lump Sum Allowance for, the amount as indicated on the Bid Form, to complete installation of new/relocated irrigation components. Contractor shall coordinate and process allowance item in the same manner as other portions of the work. Related costs for this item, including coordination, administration, overhead and profit, and similar costs shall be included as part of other bid items and not as part of the allowance.
- B. Allowance No. 012100-2: Gate Access Control Equipment
 - 1. Include a Lump Sum Allowance for, the amount as indicated on the Bid Form, to complete removal, salvaging/storage, reinstallation at new location, and necessary programming of the Long and Short Term Parking lot access control/gate equipment. Contractor shall coordinate and process allowance item in the same manner as other portions of the work. Related costs for this item, including coordination, administration, overhead and profit, and similar costs shall be included as part of other bid items and not as part of the allowance.
- C. Allowance No. 012100-3: Downspout Boot
 - 1. Include a Lump Sum Allowance for, the amount as indicated on the Bid Form, to purchase downspout boots. Contractor shall coordinate and process allowance item in the same manner as other portions of the work. Related costs for this item, including coordination, administration, overhead and profit, and similar costs shall be included as part of other bid items and not as part of the allowance.

END OF SECTION 012100

ESTIMATED PROJECT QUANTITIES

DIVISION 1: BASE BID (RISE PARTICIPATING)
DIVISION 2: BASE BID (NON-RISE PARTICIPATING)
DIVISION 3: BID ALTERNATE 1

100-1A
10-28-97

ITEM NO.	ITEM CODE	ITEM	UNIT	DIVISION 1	DIVISION 2	DIVISION 3	TOTAL	AS BUILT
1	2010	CLEARING AND GRUBBING	LS	0.26	0.74	0	1	
2	2010	TOPSOIL, STRIP, SALVAGE, AND RESPREAD	CY	880	3,035	1,160	5,075	
3	2010	EXCAVATION, CLASS 13	CY	4,219	14,972	1,240	20,431	
4	2010	DETENTION BASIN RIP-RAP REMOVAL	CY	0	1,338	0	1,338	
5	2010	SUBGRADE PREPARATION, 6 IN.	SY	453	829	0	1,282	
6	2010	SUBGRADE PREPARATION, 12 IN.	SY	3,938	15,015	8,475	27,428	
7	2010	MODIFIED SUBBASE, 6 IN.	SY	453	829	0	1,282	
8	2010	MODIFIED SUBBASE, 8 IN.	SY	0	178	289	467	
9	2010	MODIFIED SUBBASE, 12 IN.	SY	3,938	15,015	8,475	27,428	
10	2010	MODIFIED SUBBASE, VARIABLE DEPTH (0-6 IN.)	SY	0	416	0	416	
11	2010	2 IN. NOMINAL DEPTH MODIFIED SUBBASE	TONS	0	600	1,335	1,935	
12	2010	QUALITY ASSURANCE MATERIAL TESTING	LS	0.26	0.74	1	2	
13	4020	STORM SEWER, TRENCHED, SDR 26, 12 IN.	LF	0	440	0	440	
14	4020	STORM SEWER, TRENCHED, 15 IN., WITH AGGREGATE BACKFILL	LF	424	0	0	424	
15	4020	STORM SEWER, TRENCHED, 18 IN., WITH AGGREGATE BACKFILL	LF	0	144	0	144	
16	4020	STORM SEWER, TRENCHED, 24 IN., WITH AGGREGATE BACKFILL	LF	7	81	0	88	
17	4020	STORM SEWER, TRENCHED, 30 IN.	LF	68	20	0	88	
18	4020	STORM SEWER, TRENCHED, 30 IN., WITH AGGREGATE BACKFILL	LF	120	0	0	120	
19	4020	STORM SEWER, TRENCHED, 36 IN.	LF	0	304	0	304	
20	4020	STORM SEWER, TRENCHED, 36 IN., WITH AGGREGATE BACKFILL	LF	0	80	0	80	
21	4020	REMOVAL OF STORM SEWER, LESS THAN OR EQUAL TO 36 IN.	LF	218	1,260	0	1,478	
22	4020	REMOVAL OF STORM SEWER, 6 IN. SUBDRAIN	LF	491	600	0	1,091	
23	4040	SUBDRAIN & FITTINGS, 6 IN. CORRUGATED PVC, PERF. (CASE B & C, TYPE 1)	LF	824	3,094	1,452	5,370	
24	4040	SUBDRAIN CLEANOUT (TYPE A-1 MODIFIED)	EA	0	14	6	20	
24A	4040	SUBDRAIN CLEANOUT ADJUSTMENT	EA	0	7	0	7	
25	4040	ROOF DRAIN, SDR 26 PVC, 10 IN.	LF	423	0	0	423	
26	4040	DOWNSPOUT BOOT, INSTALL ONLY	EA	5	0	0	5	
27	CR-5910	WATER MAIN REMOVAL, 8 IN.	LF	0	77	0	77	
28	CR-5920	REMOVAL OF FIRE HYDRANT	EA	0	1	0	1	
29	6010	MANHOLE, SW-401, 72 IN.	EA	0	1	0	1	
30	6010	INTAKE, SW-402M, 5' X 5'	EA	1	0	0	1	
31	6010	INTAKE, SW-502M 60 IN.	EA	1	0	0	1	
32	6010	INTAKE, SW-505	EA	2	2	0	4	
33	6010	INTAKE, SW-505M	EA	1	0	0	1	
34	6010	INTAKE, SW-506	EA	1	0	0	1	
35	6010	INTAKE, SW-508	EA	0	1	0	1	
36	6010	INTAKE, SW-508M, INSERT, WALLS, AND TOP ONLY	EA	0	1	0	1	
37	6010	INTAKE, SW-510M, INSERT, WALLS, AND TOP ONLY	EA	0	0	2	2	
38	6010	INTAKE, SW-511	EA	0	1	0	1	
39	6010	MANHOLE ADJUSTMENT, MINOR	EA	0	1	0	1	
40	6010	INTAKE ADJUSTMENT, REPLACE INTAKE TOP WITH SW-602 CASTING TOP	EA	1	0	0	1	
41	6010	CONNECTION TO EXISTING INTAKE	EA	2	7	0	9	
42	6010	REMOVE AND REPLACE INTAKE FILLET	EA	0	2	0	2	
43	6010	REMOVAL, INTAKE OR MANHOLE	EA	2	15	0	17	
44	7010	CONCRETE MEDIAN, PCC, 4 IN.	SY	0	207	192	399	
45	7010	PAVEMENT, PCC, CLASS C, CLASS 3 DURABILITY, 6 IN.	SY	0	13,565	8,011	21,576	
46	7010	PAVEMENT, PCC, CLASS C, CLASS 3 DURABILITY, REINFORCED, 6 IN.	SY	0	84	73	157	
47	7010	PAVEMENT, PCC, CLASS C, CLASS 3 DURABILITY, 8 IN.	SY	3,293	478	0	3,771	
48	7010	PAVEMENT, PCC, CLASS C, CLASS 3 DURABILITY, REINFORCED, 8 IN.	SY	198	176	0	374	
49	7010	PCC PAVEMENT SAMPLING AND TESTING	LS	0.26	0.74	1	2	
50	7030	PAVEMENT, PCC, CLASS C, SIDEWALK, 4 IN.	SY	496	951	0	1,447	
51	7030	DETECTABLE WARNINGS	SF	16	24	0	40	
52	7040	SIDEWALK REMOVAL	SY	355	103	0	458	
53	7040	PAVEMENT REMOVAL	SY	2,305	3,905	0	6,210	
54	7060	BITUMINOUS SEAL COAT, 3/8" AGGREGATE	SY	0	416	0	416	
55	7091	FULL DEPTH RECLAMATION, SEALCOAT PARKING, 4 IN.	SY	0	0	8,089	8,089	
56	8010	TYPE A SIGNS, SHEET ALUMINUM	SF	100	143	6	249	
57	8010	PARKING LOT SIGN, INSTALLED ON LIGHT POLE	EA	0	6	4	10	
58	8010	REMOVE EXISTING SIGN	EA	3	12	0	15	
59	8010	DETECTOR LOOP (CAST IN PLACE)	EA	0	8	0	8	
60	8020	PAINT MARKING REMOVAL, WATER BLASTING	LF	0	1,750	0	1,750	
61	8020	THERMOPLASTIC SYMBOLS & LEGENDS, INCLUDING GROOVING	EA	2	20	0	22	
62	8020	PAINTED PAVEMENT MARKINGS, WATERBORNE	LF	922	11,800	6,247	18,969	
63	8030	TEMPORARY TRAFFIC CONTROL	LS	0.26	0.74	0	1	
64	8030	PERFORATED 2" x 2" SQUARE STEEL TUBE POST	LF	205	270	11	486	
65	8030	4" x 4" SQUARE WOODEN POST	LF	28	134	0	162	
66	9010	CONVENTIONAL SEEDING, SEEDING, FERTILIZING, AND MULCHING, TYPE 1	ACRE	1	3	0.1	4.1	
67	9010	CONVENTIONAL SEEDING, SEEDING, FERTILIZING, AND MULCHING, TYPE 2	ACRE	1.5	0	0	1.5	
68	9010	STORMWATER POLLUTION PREVENTION PLAN, (SWPPP), MANAGEMENT	LS	0.26	0.74	0	1	
69	9040	EROSION CONTROL MULCHING, CONVENTIONAL OR HYDROMULCHING	ACRE	0.5	0.5	0.0	1	
70	9040	INSTALLATION AND REMOVAL OF SILT FENCE	LF	300	2,250	0	2,550	

ESTIMATED PROJECT QUANTITIES

DIVISION 1: BASE BID (RISE PARTICIPATING)
DIVISION 2: BASE BID (NON-RISE PARTICIPATING)
DIVISION 3: BID ALTERNATE 1

100-1A
10-28-97

ITEM NO.	ITEM CODE	ITEM	UNIT	DIVISION 1	DIVISION 2	DIVISION 3	TOTAL	AS BUILT
71	9040	INLET PROTECTION DEVICE	EA	6	16	0	22	
72	9040	RIP RAP - CLASS E REVETMENT STONE	TONS	0	40	0	40	
73	9040	STABILIZED CONSTRUCTION ENTRANCE	LS	0.26	0.74	0	1	
74	11020	MOBILIZATION	LS	0.26	0.74	0	1	
75	11050	CONCRETE WASHOUT	LS	0.26	0.74	0	1	
76		RETAINING WALL REMOVAL	SF	375	675	0	1,050	
77		SPECIALTY ROADWAY SIGN AND BASE REMOVAL	EA	1	1	0	2	
78		EXISTING SPECIALTY ROADWAY SIGN, EDIT TEXT, INSTALL ON NEW POSTS	EA	1	1	0	2	
79		EXISTING SPECIALTY ROADWAY SIGN, EDIT TEXT	EA	0	5	0	5	
80		EXISTING SPECIALTY ROADWAY SIGN, RELOCATE PANEL	EA	0	2	0	2	
81		PLANTER REMOVAL	EA	0	2	0	2	
82	DIV. 26	CONDUIT REMOVAL, ALL SIZES, CIRCUIT REMOVAL INCIDENTAL	LF	1,850	4,070	380	6,300	
83	DIV. 26	REMOVE EXISTING HANDHOLE	EA	11	15	0	26	
84	DIV. 26	LIGHT POLE, WOOD, REMOVAL	EA	0	2	5	7	
85	DIV. 26	LIGHT POLE AND BASE REMOVAL	EA	4	9	0	13	
86	DIV. 26	LIGHT, S1 - DOUBLE FIXTURE @180 DEG., NEW BASE (PARKING)	EA	0	4	0	4	
87	DIV. 26	LIGHT, S1A - SALV. DBL. FIXT. @180 DEG., NEW POLE, NEW BASE (PARKING)	EA	0	2	4	6	
88	DIV. 26	LIGHT, S2 - SINGLE FIXTURE, NEW POLE, NEW BASE (ROADWAY)	EA	5	2	0	7	
89	DIV. 26	LIGHT, S3 - SINGLE FIXTURE, NEW POLE, NEW BASE (WALKWAY)	EA	0	4	0	4	
90	DIV. 26	1 WAY 1.5 IN. PVC CONDUIT, DIRECT BURIED	LF	0	574	0	574	
91	DIV. 26	1 WAY 2 IN. PVC CONDUIT, DIRECT BURIED	LF	1,137	2,069	536	3,742	
92	DIV. 26	2 WAY 2 IN. CONDUIT, DIRECT BURIED	LF	0	198	0	198	
93	DIV. 26	2 WAY 2 IN. PVC CONDUIT, DIRECTIONAL BORE	LF	0	133	0	133	
94	DIV. 26	1 WAY 3 IN. PVC CONDUIT, DIRECT BURIED	LF	0	163	0	163	
95	DIV. 26	4 WAY 4 IN. PVC CONDUIT, DIRECTIONAL BORE	LF	0	128	0	128	
96	DIV. 26	1 WAY 3 IN. PVC CONDUIT + 1 WAY 2 IN. PVC CONDUIT, CONC. ENCASED	LF	0	84	0	84	
97	DIV. 26	2 WAY 3 IN. PVC CONDUIT + 1 WAY 2 IN. PVC CONDUIT, CONC. ENCASED	LF	0	62	0	62	
98	DIV. 26	3 WAY 3 IN. PVC CONDUIT + 1 WAY 2 IN. PVC CONDUIT, CONC. ENCASED	LF	0	79	0	79	
99	DIV. 26	5 WAY 3 IN. PVC CONDUIT + 2 WAY 2 IN. PVC CONDUIT, CONC. ENCASED	LF	0	73	0	73	
100	DIV. 26	6 WAY 3 IN. PVC CONDUIT + 2 WAY 2 IN. PVC CONDUIT, CONC. ENCASED	LF	0	124	0	124	
101	DIV. 26	7 WAY 3 IN. PVC CONDUIT + 2 WAY 2 IN. PVC CONDUIT, CONC. ENCASED	LF	0	73	0	73	
102	DIV. 26	(3) NO. 4/0, (1) NO. 4 EGC, AND (1) NO. 2 GEC, INSTALLED IN CONDUIT	LF	0	701	0	701	
103	DIV. 26	(3) NO. 6 AND (1) NO. 10 EGC, INSTALLED IN CONDUIT	LF	0	676	0	676	
104	DIV. 26	(2) NO. 6 AND (1) NO. 6 EGC, INSTALLED IN CONDUIT	LF	1,421	1,121	0	2,542	
105	DIV. 26	(2) NO. 8 AND (1) NO. 8 EGC, INSTALLED IN CONDUIT	LF	0	2,498	670	3,168	
106	DIV. 26	ELECTRICAL PRECAST HANDHOLE AND CASTING, HH-1	EA	4	8	0	12	
107	DIV. 26	ELECTRICAL PRECAST MANHOLE AND CASTING, 5' X 5', MH-1	EA	0	2	0	2	
108	DIV. 26	PACKAGED POWER CENTER W/ TRANSFORMER, MPC-1	EA	0	0	0	1	
109	DIV.27	REMOVE AND REINSTALL EXISTING FIBER	LF	0	1,060	0	1,060	
110	DIV.27	FIBER OPTIC CABLE, 6-STRAND, MULTI-MODE	LF	0	480	0	480	
111	DIV.27	NEMA RATED STEEL ENCLOSURE W/ MOUNTING PLATE, COMPLETE	EA	0	1	0	1	
112	SUPP.	BARRIER, ORNAMENTAL POST AND CHAIN	LF	0	270	0	270	
113	SUPP.	VEHICLE TOW	EA	0	40	0	40	
114		ALLOWANCE - IRRIGATION	ALL	0.26	0.74	0	1	
115		ALLOWANCE - GATE ACCESS CONTROL EQUIPMENT RELOCATION	ALL	0	1	0	1	
116		ALLOWANCE - DOWNSPOUT BOOT	ALL	1	0	0	1	
117		BOLLARD, STEEL, 6 INCH DIA. GALVANIZED, WITH SLEEVE	EA	0	12	0	12	
118		BOLLARD REMOVAL	EA	0	12	0	12	
119		IRRIGATION REMOVAL	LS	0	1	0	1	

CLIENT PROJECT NO: _____ FOTH PROJECT NO: 23T001.07
DESIGNED BY: DJS CHECKED BY: EMS DRAWN BY: DJS
LETTING DATE: _____ CAD DATE: _____
CAD FILE: _____

NO	DATE	BY	REVISION DESCRIPTION
1	2/9/2024		ADDENDUM 1



THE EASTERN IOWA AIRPORT
2024 PARKING LOT AND ROADWAY IMPROVEMENTS
CEDAR RAPIDS, IA

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES
C.01

SHEET NO.

ESTIMATE REFERENCE INFORMATION

ITEM NO.	ITEM CODE	DESCRIPTION
1	2010	CLEARING AND GRUBBING A. BID ITEM INCLUDES COST FOR REMOVAL OF ALL DESIGNATED TREES AND BRUSH. SEE D-SHEETS FOR REMOVALS B. ALL REMOVED MATERIAL SHALL BE PROPERTY OF THE CONTRACTOR, NO MATERIAL MAY BE BURNED NOR BURIED ON-SITE.
2	2010	TOPSOIL, STRIP, SALVAGE, AND RESPREAD A. BID ITEM INCLUDES THE FOLLOWING QUANTITIES: DIVISION 1 + DIVISION 2: 3,915 CY STRIP AND SALVAGE 3,451 CY RESPREAD (CALCULATED USING 45% SHRINK FACTOR) DIVISION 3: 830 CY STRIP AND SALVAGE 1,160 CY RESPREAD (CALCULATED USING 45% SHRINK FACTOR) B. THIS QUANTITY WAS CALCULATED ASSUMING A 6 INCH STRIP AND 6 INCH RESPREAD IN THE DISTURBED AREAS. C. A TOPSOIL BORROW AREA IS AVAILABLE ON-SITE AT THE LOCATION INDICATED ON SHEET A.03 FOR USE ON THIS PROJECT. D. EXCESS TOPSOIL WILL REMAIN PROPERTY OF THE OWNER AND SHALL BE DELIVERED TO THE ON-SITE LOCATION INDICATED ON SHEET A.03.
3	2010	EXCAVATION, CLASS 13 A. BID ITEM INCLUDES THE FOLLOWING QUANTITIES: DIVISION 1 + DIVISION 2: 13,400 CY OF TEMPLATE CUT 5,791 CY OF TEMPLATE FILL (CALCULATED USING A 20% SHRINK FACTOR) DIVISION 3: 58 CY OF TEMPLATE CUT 1,182 CY OF TEMPLATE FILL (CALCULATED USING A 20% SHRINK FACTOR) B. A BORROW AND WASTE AREA IS AVAILABLE ON-SITE AT THE LOCATIONS INDICATED ON SHEET A.03 C. EXCESS MATERIAL SHALL BE MOVED TO THE LOCATION INDICATED ON SHEET A.03 AND SHALL BE PLACED AS ENGINEERED FILL, USING MOISTURE AND DENSITY CONTROL. COMPACT TO NO LESS THAN 95% STANDARD PROCTOR AND +0 / +3% OF OPTIMUM MOISTURE. D. ENGINEER WILL PROVIDE PROPOSED GRADING CONTOURS FOR THE WASTE FILL AREA AT THE TIME OF EXECUTION.
4	2010	DETENTION BASIN RIP-RAP REMOVAL A. BID ITEM INCLUDE COST FOR REMOVAL OF ALL RIP-RAP IN THE EXISTING DETENTION BASIN (ASSUMED THICKNESS OF 2.5 FEET). B. ALL REMOVED MATERIAL SHALL BE PROPERTY OF THE CONTRACTOR, NO MATERIAL MAY BE BURIED ON-SITE. C. THE CONTRACTOR MAY DISPOSE CLEAN MATERIAL THAT IS FREE OF VEGETATION, SOILS, AND FINES (AS DETERMINED BY THE ENGINEER) AT THE LOCATION SHOWN ON SHEET A.03.
5	2010	SUBGRADE PREPARATION, 6 IN.
6	2010	SUBGRADE PREPARATION, 12 IN. A. SEE B SHEETS FOR TYPICAL SECTIONS
7	2010	MODIFIED SUBBASE, 6 IN.
8	2010	MODIFIED SUBBASE, 8 IN.
9	2010	MODIFIED SUBBASE, 12 IN.
10	2010	MODIFIED SUBBASE, VARIABLE DEPTH (0-6 IN.) A. MATERIAL SHALL BE PLACED USING MOISTURE AND DENSITY CONTROL. COMPACT TO NO LESS THAN 98% STANDARD PROCTOR AND -3/+3% OF OPTIMUM MOISTURE. B. MATERIAL SHALL NOT BE PLACED ON FROZEN GRADE. C. MODIFIED SUBBASE MATERIAL SHALL BE IN ACCORDANCE WITH IOWA DOT STANDARD SPECIFICATION 4123. D. RECYCLED CONCRETE AGGREGATE MEETING THE GRADATION AND QUALITY SPECIFICATIONS OF IOWA DOT 4123 MAY BE USED IN PLACE OF OR IN CONJUNCTION WITH VIRGIN MODIFIED SUBBASE. CONTRACTOR MUST PROVIDE THE ENGINEER WITH TEST RESULTS PRIOR TO USE ON THE PROJECT. E. SEE B SHEETS FOR TYPICAL SECTIONS.
11	2010	2 IN. NOMINAL DEPTH MODIFIED SUBBASE A. ITEM IS INTENDED FOR GRADE CORRECTION ONLY IN THE EXISTING BITUMINOUS SEAL COAT PARKING LOT. ITEM SHALL BE PAID BASED ON CERTIFIED TRUCK SCALE TICKETS. B. UNIT PRICE SHALL INCLUDE PLACEMENT, SHAPING, AND COMPACTION EFFORT AS NECESSARY TO ACHIEVE THE DESIRED SUBBASE ELEVATIONS IN PARKING LOT C. RECOMPACTION OF THE 4 IN. LAYER DISTURBED DURING PULVERIZATION OF EXISTING SEALCOAT SURFACE WILL BE INCIDENTAL TO THIS ITEM. C. MATERIAL SHALL BE PLACED USING MOISTURE AND DENSITY CONTROL. COMPACT TO NO LESS THAN 98% STANDARD PROCTOR AND -3/+3% OF OPTIMUM MOISTURE.
12	2010	QUALITY ASSURANCE MATERIAL TESTING A. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN INDEPENDENT THIRD PARTY TESTING AGENCY, COORDINATING, SCHEDULING, AND CONFIRMING TESTING RESULTS WITH THE APPLICABLE SPECIFICATION SECTIONS 2010 ITEMS, TO INCLUDE EARTHWORK, SUBGRADE AND SUBBASES. B. THE CONTRACTOR SHALL AT A MINIMUM, COMPLY WITH THE FREQUENCY AND TESTING LOCATION REQUIREMENTS FOR EACH ITEM REQUIRING TESTING ACCORDING TO THE ITEM SPECIFICATION. C. THE CONTRACTOR SHALL PROVIDE THE TESTING RESULTS, IN A PROFESSIONAL AND ORDERLY FASHION TO THE ENGINEER. D. THIS ITEM WILL BE PAID AS A LUMP SUM BASIS BASED ON THE PERCENT COMPLETE OF RESPECTIVE BID ITEMS PASSED AND ACCEPTED AS COMPLETE.
13	4020	STORM SEWER, TRENCHED, SDR 26, 12 IN.
14	4020	STORM SEWER, TRENCHED, 15 IN., WITH AGGREGATE BACKFILL
15	4020	STORM SEWER, TRENCHED, 18 IN., WITH AGGREGATE BACKFILL
16	4020	STORM SEWER, TRENCHED, 24 IN., WITH AGGREGATE BACKFILL
17	4020	STORM SEWER, TRENCHED, 30 IN.
18	4020	STORM SEWER, TRENCHED, 30 IN., WITH AGGREGATE BACKFILL
19	4020	STORM SEWER, TRENCHED, 36 IN.
20	4020	STORM SEWER, TRENCHED, 36 IN., WITH AGGREGATE BACKFILL A. REFER TO M SERIES SHEETS FOR LOCATIONS. ALL CONCRETE STORM SEWER SHALL BE CLASS III AND CLASS V, WALL B (IOWA DOT CLASS 2300D AND 3750D). B. FOR RIGID PIPE USE BEDDING CLASS R-2 PER SUDAS FIGURE 3010.102 AND CLASS I MATERIAL AS SPECIFIED IN SUDAS SPEC. SECT. 3010.2.02. C. GRANULAR MATERIAL SHALL BE PLACED A MINIMUM OF 1-FOOT ABOVE ALL PIPE AND SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95% STANDARD PROCTOR. D. ALL PIPING PLACED BENEATH PROPOSED PAVEMENT SHALL BE BACKFILLED WITH GRANULAR MATERIAL TO THE SUBGRADE LEVEL. MATERIAL SHALL MATCH INITIAL PIPE BACKFILL, OR MAY BE SUBSTITUTED WITH SUBBASE MATERIAL. MATERIAL SHALL BE COMPACTED TO REQUIRED SUBBASE DENSITY. E. THIS ITEM SHALL INCLUDE ALL MATERIALS AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF EACH RESPECTIVE ITEM TO THE LINE AND GRADE AS SPECIFIED ON THE PLANS. EACH ITEM ALSO INCLUDES FURNISHING ALL PIPE AND APPURTENANCES, HANDLING, EXCAVATION, DEWATERING, INSTALLATION, GRANULAR BEDDING, TRENCH BACKFILL MATERIAL, CONCRETE COLLARS, AND ALL OTHER MISCELLANEOUS WORK. F. FOR FLEXIBLE PIPE USE BEDDING CLASS F-2 PER SUDAS FIGURE 3010.103 AND CLASS I MATERIAL AS SPECIFIED IN SUDAS SPEC. SECT. 3010.2.02. G. POLYPROPYLENE PIPE, IF SELECTED, SHALL BE PERFORATED (AT THE PLANT) AND PERFORATION PATTERN SHALL BE PER AASHTO CLASS II STANDARD PATTERN (BOTH ENDS (TWO VALLEYS) AND MIDPOINT (THREE VALLEYS) OF PIPE STICK AND EVERY 45-DEGREES RADIALLY AROUND PIPE). EACH PERFORATION LOCATION SHALL BE WRAPPED WITH NON-WOVEN GEOTEXTILE FABRIC ONE-FOOT BEYOND EACH PERFORATION.

ESTIMATE REFERENCE INFORMATION (cont.)

ITEM NO.	ITEM CODE	DESCRIPTION
21	4020	REMOVAL OF STORM SEWER, LESS THAN OR EQUAL TO 36 IN. A. REFER TO D SHEETS FOR STORM SEWER REMOVALS
22	4020	REMOVAL OF STORM SEWER, 6 IN. SUBDRAIN A. REFER TO D SHEETS FOR SUBDRAIN REMOVALS
23	4040	SUBDRAIN AND FITTINGS, 6 IN. CORRUGATED PVC, PERFORATED (CASE B AND C, TYPE 1)
24	4040	SUBDRAIN CLEANOUT (TYPE A-1 MODIFIED)
24A	4040	SUBDRAIN CLEANOUT ADJUSTMENT A. REFER TO M SHEETS FOR LOCATIONS AND INSTALLATION DETAILS. B. ALL GRANULAR MATERIAL, FITTINGS, CASTINGS, CONCRETE PADS AND APPURTENANCES ARE INCIDENTAL TO THIS ITEM.
25	4040	ROOF DRAIN, SDR 26 PVC, 10 IN. A. REFER TO M SHEETS FOR LOCATIONS AND INSTALLATION DETAILS. B. INSTALL FLOWLINE A MINIMUM OF 36-INCHES BELOW FINISHED GRADE SURFACE.
26	4040	DOWNSPOUT BOOT, INSTALL ONLY A. DOWNSPOUT BOOT AND MANUFACTURED BEND WITH FLANGE WILL BE PROCURED BY ALLOWANCE. B. THIS BID ITEM SHALL BE FOR ALL EQUIPMENT AND LABOR NECESSARY TO REMOVE THE EXISTING DOWNSPOUT FLANGE AND DRAINAGE NOZZLE AND INSTALL NEW DOWNSPOUT BOOT AND BEND AND CONNECT TO PROPOSED ROOF DRAIN PIPING AS INDICATED ON SHEET M.18.
27	CR-5910	WATER MAIN REMOVAL, 8 IN. A. COMPLY WITH CITY OF CEDAR RAPIDS SUPPLEMENTAL SPECIFICATIONS SECTION CR-5910.
28	CR-5920	REMOVAL OF FIRE HYDRANT A. COMPLY WITH CITY OF CEDAR RAPIDS SUPPLEMENTAL SPECIFICATIONS SECTION CR-5920.
29	6010	MANHOLE, SW-401, 72 IN.
30	6010	MANHOLE, SW-402M, 5' X 5'
31	6010	INTAKE, SW-502M 60 IN.
32	6010	INTAKE, SW-505
33	6010	INTAKE, SW-505M
34	6010	INTAKE, SW-506
35	6010	INTAKE, SW-508 A. REFER TO M SHEETS FOR DETAILS AND LOCATIONS OF ALL STORM SEWER STRUCTURES.
36	6010	INTAKE, SW-508M, INSERT, WALLS, AND TOP ONLY A. REFER TO M SHEETS FOR DETAILS AND LOCATIONS OF ALL STORM SEWER STRUCTURES. B. THIS ITEM SHALL INCLUDE ALL COSTS AND MATERIALS TO REMOVE EXISTING TOP AND INSTALL NEW INTAKE INSERT, WALLS, AND TOP ONTO EXISTING SW-508 STRUCTURES.
37	6010	INTAKE, SW-510M, INSERT, WALLS, AND TOP ONLY A. REFER TO M SHEETS FOR DETAILS AND LOCATIONS OF ALL STORM SEWER STRUCTURES. B. THIS ITEM SHALL INCLUDE ALL COSTS AND MATERIALS TO REMOVE EXISTING TOP AND INSTALL NEW INTAKE INSERT, WALLS, AND TOP ONTO EXISTING SW-510 STRUCTURES.
38	6010	INTAKE, SW-511M A. REFER TO M SHEETS FOR DETAILS AND LOCATIONS OF ALL STORM SEWER STRUCTURES. B. REMOVAL AND REINSTALLATION OF 18 IN. RCP CONNECTING TO NEW STRUCTURE SHALL BE INCIDENTAL TO THIS ITEM. ANY DAMAGE OR UNUSABLE PIPE SHALL BE REPLACED AT NO COST TO THE OWNER.
39	6010	MANHOLE ADJUSTMENT, MINOR A. THIS ITEM SHALL INCLUDE REMOVING EXISTING CASTING AND EXISTING ADJUSTMENT RINGS, FURNISHING AND INSTALLING ADJUSTMENT RINGS, FURNISHING AND INSTALLING NEW CASTING, AND INSTALLING NEW INFILTRATION BARRIER PER CEDAR RAPIDS SUPPLEMENTAL SPECIFICATIONS TO SUDAS.
40	6010	INTAKE ADJUSTMENT, REPLACE INTAKE TOP WITH SW-602 CASTING TOP A. THIS ITEM SHALL INCLUDE ALL COSTS AND MATERIALS TO REMOVE EXISTING INTAKE TOP AND REPLACE WITH NEW MANHOLE TOP WITH SW-602 CASTING
41	6010	CONNECTION TO EXISTING INTAKE A. THIS ITEM SHALL INCLUDE ALL COSTS AND MATERIALS FOR CORING OR CUTTING INTO THE EXISTING MANHOLE OR INTAKE, PIPE CONNECTIONS, GROUT, AND WATERSTOP (WHEN REQUIRED)
42	6010	REMOVE AND REPLACE INTAKE FILLET A. THIS ITEM SHALL INCLUDE, BUT IS NOT LIMITED TO, MATERIALS, LABOR AND EQUIPMENT NEEDED TO REMOVE AND REPLACE THE INTAKE FILLET.
43	6010	REMOVAL, INTAKE OR MANHOLE A. REFER TO D SHEETS FOR LOCATIONS AND DETAILS.
44	7010	CONCRETE MEDIAN, PCC, 4 IN. A. ITEM SHALL INCLUDE BOTH STANDARD MEDIAN AREAS AS WELL AS MOW PAD AREAS ALONG BACK OF CURB. B. CERTIFIED PLANT INSPECTION SHALL BE PROVIDED BY THE CONTRACTOR.
45	7010	PAVEMENT, PCC, CLASS C, CLASS 3 DURABILITY, 6 IN.
46	7010	PAVEMENT, PCC, CLASS C, CLASS 3 DURABILITY, REINFORCED, 6 IN.
47	7010	PAVEMENT, PCC, CLASS C, CLASS 3 DURABILITY, 8 IN.
48	7010	PAVEMENT, PCC, CLASS C, CLASS 3 DURABILITY, REINFORCED, 8 IN. A. SEE B SHEETS FOR REINFORCING REQUIREMENTS AND TYPICAL SECTIONS B. CERTIFIED PLANT INSPECTION SHALL BE PROVIDED BY THE CONTRACTOR.
49	7010	PCC PAVEMENT SAMPLING AND TESTING A. CONTRACTOR IS RESPONSIBLE FOR ALL PCC SAMPLING AND TESTING MEETING SUDAS TESTING REQUIREMENTS BY A CERTIFIED TESTING LABORATORY. CONTRACTOR SHALL COORDINATE ALL SAMPLING AND TESTING AS REQUIRED BY SUDAS SECTION 7. B. CONTRACTOR NOT REQUIRED TO COMPLETE PROFILOGRAPH PAVEMENT SMOOTHNESS MEASUREMENT. C. CERTIFIED PLANT INSPECTION SHALL BE PROVIDED BY THE CONTRACTOR FOR ALL PCC BID ITEMS.

CLIENT PROJECT NO: _____ FOTH PROJECT NO: 23T001.07
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1	2/9/2024		ADDENDUM 1



THE EASTERN IOWA AIRPORT
2024 PARKING LOT AND ROADWAY IMPROVEMENTS
 CEDAR RAPIDS, IA

ESTIMATE REFERENCE NOTES

SHEET NO.
C.02

ESTIMATE REFERENCE INFORMATION (cont.)

ITEM NO.	ITEM CODE	DESCRIPTION
50	7030	PAVEMENT, PCC, CLASS C, SIDEWALK, 4 IN. A. SEE B SHEETS FOR SIDEWALK TYPICAL SECTIONS. ALL PEDESTRIAN RAMPS AND TURNING SPACES SHALL BE 6 IN. THICKNESS PER SUDAS SPECIFICATIONS. B. CERTIFIED PLANT INSPECTION SHALL BE PROVIDED BY THE CONTRACTOR. C. PIGMENTED PCC SHALL BE SOLOMON COLORS INC. 238- THYME (MATCH EXISTING). SEE A.06 FOR LOCATIONS. APPROXIMATELY 56 SY OF PIGMENTED PCC.
51	7030	DETECTABLE WARNINGS A. CONTRACTOR IS TO USE POLYMER DETECTABLE WARNING PANELS WITH ANCHORS INTO CONCRETE. B. COLOR OF DETECTABLE WARNINGS SHALL BE APPROVED BY ENGINEER PRIOR TO INSTALLATION ON PROJECT.
52	7040	SIDEWALK REMOVAL A. THIS ITEM INCLUDES REMOVAL OF SIDEWALK CONCRETE SURFACES INDICATED IN THE D SHEETS. REMOVED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR, NO AREA EXISTS ON SITE FOR WASTE. B. THICKNESS VARIES BETWEEN 4-INCHES AND 6-INCHES AND INCLUDES THICKENED EDGES AT BACK OF CURBS AND CURB RAMPS.
53	7040	PAVEMENT REMOVAL A. THIS ITEM INCLUDES REMOVAL OF ALL CONCRETE SURFACES INDICATED IN THE D SHEETS. REMOVED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR, NO AREA EXISTS ON SITE FOR WASTE. B. THICKNESS VARIES. SEE D SHEETS FOR NOMINAL THICKNESSES.
54	7060	BITUMINOUS SEAL COAT, 3/8" AGGREGATE A. REFER TO THE B SHEETS, E SHEETS, AND L SHEETS FOR LOCATIONS AND DETAILS. B. THE CONTRACTOR IS TO KEEP ALL EXISTING PAVEMENT CLEAN OF BITUMINOUS MATERIAL. ANY TRANSFER OF THE BITUMINOUS MATERIAL ONTO EXISTING PAVEMENT WILL NEED TO BE REMOVED BY THE CONTRACTOR AND IS CONSIDERED INCIDENTAL TO THIS BID ITEM. C. CONTRACTOR SHALL USE CUT BACK ASPHALT
55	7091	FULL DEPTH RECLAMATION, SEALCOAT PARKING, 4 IN. A. THIS ITEM SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS NECESSARY TO PULVERIZE THE EXISTING BITUMINOUS SEAL COAT SURFACE OF THE EXISTING PARKING LOT (APPROXIMATELY 1 IN. THICK). THIS SURFACE SHALL BE INCORPORATED INTO EXISTING UNDERLYING MATERIAL TO A DEPTH OF NOT LESS THAN 4 IN. B. CONTRACTOR SHALL PROTECT ALL STRUCTURES AND FIXTURES PROTRUDING THROUGH THE EXISTING SURFACE. C. PULVERIZED MATERIAL WILL NOT BE REQUIRED TO BE RECOMPACTED UNDER THIS ITEM. D. CONTRACTOR SHALL ADD MOISTURE AS NECESSARY TO ACTIVELY CONTROL AND MEDIATE DUST PRODUCED BY THE PULVERIZING OPERATINON. E. CONTRACTOR SHALL PROVIDE EQUIPMENT AS SPECIFIED IN SUDAS SECTION 7091-3.01.B.1
56	8010	TYPE A SIGNS, SHEET ALUMINIUM A. REFER TO K SHEETS FOR LOCATIONS AND DETAILS. B. SIGNS DAMAGED DURING TRANSPORTATION OR INSTALLATION SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
57	8010	PARKING LOT SIGN, INSTALLED ON LIGHT POLE A. REFER TO K SHEETS FOR LOCATIONS AND DETAILS. B. SIGNS DAMAGED DURING TRANSPORTATION OR INSTALLATION SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
58	8010	REMOVE EXISTING SIGN A. SEE D SHEETS FOR SIGN REMOVALS. REMOVED SIGNS POST AND FOOTING SHALL BECOME PROPERTY OF CONTRACTOR. SEE K SHEETS FOR LOCATIONS OF SIGNS TO BE REUSED.
59	8010	DETECTOR LOOP (CAST IN PLACE) A. REFER TO L SHEETS FOR LOCATIONS AND DETAILS.
60	8020	PAINT MARKING REMOVAL, WATER BLASTING A. SEE D SHEETS FOR PAVEMENT MARKING REMOVALS. SEE K SHEETS FOR LOCATIONS OF PAVEMENT MARKINGS TO BE REINSTALLED. B. REMOVAL OF EXISTING PAVEMENT MARKINGS BY WATER BLASTING SHALL BE THE ONLY ACCEPTABLE REMOVAL METHOD, TO MINIMIZE GHOST MARKINGS.
61	8020	THERMOPLASTIC SYMBOLS & LEGENDS, INCLUDING GROOVING A. ALL SYMBOLS AND LEGENDS SHALL BE RECESSED INTO PCC TO PROTECT FROM SNOW REMOVAL OPERATIONS.
62	8020	PAINTED PAVEMENT MARKINGS, WATERBORNE A. REFER TO K SHEETS FOR LOCATIONS AND DETAILS.
63	8020	TEMPORARY TRAFFIC CONTROL A. THIS ITEM SHALL INCLUDE ALL SIGNS, BARRICADES, TEMPORARY CONSTRUCTION FENCE AND ALL OTHER WORK NECESSARY TO CONTROL TRAFFIC DURING CONSTRUCTION. B. ALL TRAFFIC CONTROL SIGNS SHALL BE FLORESCENT ORANGE VIP SHEETING. MAINTENANCE AND REMOVAL OF BARRICADES AND SIGNS IS INCLUDED WITH THIS ITEM.
64	8030	PERFORATED 2" x 2" SQUARE STEEL TUBE POST
65	8030	4" X 4" SQUARE WOODEN POST A. SEE K SHEETS FOR DETAILS ON POST INSTALLATION. B. CONCRETE FOOTING SHALL BE INCIDENTAL TO THIS ITEM.
66	9010	CONVENTIONAL SEEDING, SEEDING, FERTILIZING, AND MULCHING, TYPE 1
67	9010	CONVENTIONAL SEEDING, SEEDING, FERTILIZING, AND MULCHING, TYPE 2 A. REFER TO EC SHEETS FOR LOCATIONS AND DETAILS

ESTIMATE REFERENCE INFORMATION (cont.)

ITEM NO.	ITEM CODE	DESCRIPTION
68	9010	STORMWATER POLLUTION PREVENTION PLAN, (SWPPP), MANAGEMENT A. THE UNIT PRICE SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY TO MAINTAIN EROSION CONTROL DURING CONSTRUCTION. B. INCLUDES PLAN PREPARATION, NPDES GENERAL PERMIT #2, MANAGEMENT, INSPECTIONS, MAINTENANCE OF STRAW WATTLES, SILT FENCE, OTHER EROSION CONTROL MEASURES, AND ALL ADDITIONAL POLLUTION CONTROL THAT WILL BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR BASED ON THE CONTRACTOR'S STORM WATER POLLUTION PREVENTION PLAN. CONTRACTOR SHALL SUBMIT A DETAILED STORM WATER POLLUTION PREVENTION PLAN FOR REVIEW BY THE ENGINEER, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. REFERENCE SHALL BE MADE TO THE CITY OF CEDAR RAPIDS STORMWATER PROGRAM POLLUTION PREVENTION PLAN OUTLINE AVAILABLE AT: HTTP://WWW.CEDAR-RAPIDS.ORG/LOCAL_GOVERNMENT_DEPARTMENTS_G_-_V/PUBLIC_WORKS/SWPPP.PHP AND "IOWA CONSTRUCTION SITE EROSION CONTROL MANUAL" FOR GUIDELINES AND PROCEDURES IN REDUCING AND PREVENTING EROSION. C. PARTIAL PAYMENT FOR CONSTRUCTION EROSION CONTROL WILL BE BASED ON THE ESTIMATED PERCENTAGE OF WORK COMPLETED AT THE TIME OF SUBMITTAL OF THE APPLICATION FOR PAYMENT. FINAL PAYMENT WILL BE MADE UPON COMPLETION OF ALL WORK ON THE PROJECT REQUIRED BY THE CONTRACT, 70% OR GREATER VEGETATED COVERAGE, AND THE NOTICE OF DISCONTINUATION FILED; FULL PAYMENT WILL BE MADE FOR THIS CONTRACT ITEM, INCLUDING ANY AMOUNT NOT PAID AS A PARTIAL PAYMENT.
69	9040	EROSION CONTROL MULCHING, CONVENTIONAL OR HYDROMULCHING A. REFER TO EC SHEETS FOR LOCATIONS AND DETAILS
70	9040	INSTALLATION AND REMOVAL OF SILT FENCE A. REFER TO EC SHEETS FOR LOCATIONS AND DETAILS.
71	9040	INLET PROTECTION DEVICE A. REFER TO EC SHEETS FOR LOCATIONS AND SUDAS STANDARD DETAIL 9040.110.
72	9040	RIP RAP - CLASS E REVETMENT STONE A. REFER TO EC SHEETS FOR LOCATIONS.
73	9040	STABILIZED CONSTRUCTION ENTRANCE A. REFER TO J-SHEETS FOR LOCATIONS. B. BID ITEM INCLUDES MAINTAINING OF THE TEMPORARY HAUL ROAD TO THE PROJECT SITE. C. CONTRACTOR IS TO RETURN AREAS ASSOCIATED WITH SITE ACCESS TO ORIGINAL CONDITION UPON COMPLETION OF THE PROJECT.
74	11020	MOBILIZATION
75	11050	CONCRETE WASHOUT
76		RETAINING WALL REMOVAL A. THIS ITEM IS FOR THE REMOVAL OF THE CONCRETE BLOCK RETAINING WALL. REMOVED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF OFFSITE. NO MATERIAL MAY BE BURIED ON-SITE.
77		SPECIALTY ROADWAY SIGN AND BASE REMOVAL
78		EXISTING SPECIALTY ROADWAY SIGN, EDIT TEXT, INSTALL ON NEW POSTS
79		EXISTING SPECIALTY ROADWAY SIGN, EDIT TEXT
80		EXISTING SPECIALTY ROADWAY SIGN, RELOCATE PANEL A. REFER TO K SHEETS FOR LOCATIONS AND DETAILS. B. TEXT SHALL BE TAHOMA FONT SCALED 90% HORIZONTALLY. REFER TO SHEET K.08 FOR ADDITIONAL DETAILS. C. SEE IOWA DOT STANDARD ROAD PLAN DETAIL S1-102 AND S1-111 FOR POST QUANTITY, SPACING AND INSTALLATION DETAILS.
81		PLANTER REMOVAL A. THIS ITEM IS FOR THE REMOVAL OF THE CONCRETE BLOCK PLANTERS. REMOVED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF OFFSITE. NO MATERIAL MAY BE BURIED ON-SITE.
82	DIVISION 26	CONDUIT REMOVAL, ALL SIZES, CIRCUIT REMOVAL INCIDENTAL
83	DIVISION 26	REMOVE EXISTING HANDHOLE
84	DIVISION 26	LIGHT POLE, WOOD, REMOVAL
85	DIVISION 26	LIGHT POLE AND BASE REMOVAL
86	DIVISION 26	LIGHT, S1 - DOUBLE FIXTURE @180 DEGREES, NEW BASE (PARKING)
87	DIVISION 26	LIGHT, S1A - SALVAGED DOUBLE FIXTURE @180 DEGREES, NEW POLE, NEW BASE (PARKING)
88	DIVISION 26	LIGHT, S2 - SINGLE FIXTURE, NEW POLE, NEW BASE (ROADWAY)
89	DIVISION 26	LIGHT, S3 - SINGLE FIXTURE, NEW POLE, NEW BASE (WALKWAY)
90	DIVISION 26	1 WAY 1.5 IN. PVC CONDUIT, DIRECT BURIED
91	DIVISION 26	1 WAY 2 IN. PVC CONDUIT, DIRECT BURIED
92	DIVISION 26	2 WAY 2 IN. CONDUIT, DIRECT BURIED
93	DIVISION 26	2 WAY 2 IN. PVC CONDUIT, DIRECTIONAL BORE
94	DIVISION 26	1 WAY 3 IN. PVC CONDUIT, DIRECT BURIED
95	DIVISION 26	4 WAY 4 IN. PVC CONDUIT, DIRECTIONAL BORE
96	DIVISION 26	1 WAY 3 IN. PVC CONDUIT + 1 WAY 2 IN. PVC CONDUIT, CONCRETE ENCASED
97	DIVISION 26	2 WAY 3 IN. PVC CONDUIT + 1 WAY 2 IN. PVC CONDUIT, CONCRETE ENCASED
98	DIVISION 26	3 WAY 3 IN. PVC CONDUIT + 1 WAY 2 IN. PVC CONDUIT, CONCRETE ENCASED
99	DIVISION 26	5 WAY 3 IN. PVC CONDUIT + 2 WAY 2 IN. PVC CONDUIT, CONCRETE ENCASED
100	DIVISION 26	6 WAY 3 IN. PVC CONDUIT + 2 WAY 2 IN. PVC CONDUIT, CONCRETE ENCASED
101	DIVISION 26	7 WAY 3 IN. PVC CONDUIT + 2 WAY 2 IN. PVC CONDUIT, CONCRETE ENCASED
102	DIVISION 26	(3) NO. 4/0, (1) NO. 4 EGC, AND (1) NO. 2 GEC, INSTALLED IN CONDUIT
103	DIVISION 26	(3) NO. 6 AND (1) NO. 10 EGC, INSTALLED IN CONDUIT
104	DIVISION 26	(2) NO. 6 AND (1) NO. 6 EGC, INSTALLED IN CONDUIT
105	DIVISION 26	(2) NO. 8 AND (1) NO. 8 EGC, INSTALLED IN CONDUIT
106	DIVISION 26	ELECTRICAL PRECAST HANDHOLE AND CASTING, HH-1
107	DIVISION 26	ELECTRICAL PRECAST MANHOLE AND CASTING, 5' X 5', MH-1
108	DIVISION 26	PACKAGED POWER CENTER W/ TRANSFORMER, MPC-1 A. REFER TO P SHEETS FOR LOCATIONS AND DETAILS.

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1	2/9/2024		ADDENDUM 1



THE EASTERN IOWA AIRPORT
2024 PARKING LOT AND ROADWAY IMPROVEMENTS
 CEDAR RAPIDS, IA

ESTIMATE REFERENCE NOTES

SHEET NO.
C.03

ESTIMATE REFERENCE INFORMATION (cont.)

ITEM NO.	ITEM CODE	DESCRIPTION
109	DIVISION 27	REMOVE AND REINSTALL EXISTING FIBER
110	DIVISION 27	FIBER OPTIC CABLE, 6-STRAND, MULTI-MODE
		A. REFER TO P SHEETS FOR LOCATIONS.
		B. REMOVAL AND REINSTALLATION OF EXISTING FIBER SHALL BE COORDINATED WITH ENGINEER A MINIMUM OF TWO-WEEKS IN ADVANCE. OUTAGE SHALL LAST NO LONGER THAN EIGHT(8) CONSECUTIVE HOURS.
111	DIVISION 27	NEMA RATED STEEL ENCLOSURE W/ MOUNTING PLATE, COMPLETE
		A. REFER TO P SHEETS FOR LOCATIONS.
		B. THIS ITEM INCLUDES, BUT IS NOT LIMITED TO, THE INSTALLATION OF THE BOX AND ALL EQUIPMENT, WIRING, AND DATA CABLING AS DETAILED ON SHEET P.21.
112	SUPPLEMENTAL	BARRIER, ORNAMENTAL POST AND CHAIN
		A. ITEM SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT AS NECESSARY TO INSTALL POST AND CHAIN BARRIER AS SHOWN ON SHEET N.01.
113		VEHICLE TOW
		A. THE UNIT PRICE SHALL BE FULL COMPENSATION FOR PROVIDING VEHICLE TOWS AS DIRECTED BY THE ENGINEER. VEHICLE TOWS WILL BE REQUIRED DURING THE FOLLOWING TIMES: MONDAY THROUGH SATURDAY, 7 A.M. TO 7 P.M. AND SHALL BE COMPLETED WITHIN 24 HOURS OF REQUEST. VEHICLES SHALL REMAIN ONSITE AT A LOCATION DETERMINED BY THE ENGINEER. CONTRACTOR SHALL PROVIDE TO THE ENGINEER THE MAKE, MODEL, COLOR, AND PLATE NUMBER OF ANY VEHICLES TOWED.
114		ALLOWANCE - IRRIGATION
115		ALLOWANCE - GATE ACCESS CONTROL EQUIPMENT RELOCATION
116		ALLOWANCE - DOWNSPOUT BOOT
117		BOLLARD, STEEL, 6 INCH DIA. GALVANIZED, WITH SLEEVE
		A. REFER TO DETAIL 02 ON SHEET B.03 FOR DETAILS.
		B. REFER TO L-SHEETS FOR LOCATIONS.
		C. ITEM INCLUDES BUT IS NOT LIMITED TO ALL COSTS ASSOCIATED WITH PIPING, FOOTING, AND ASSOCIATED LABOR TO INSTALL.
118		BOLLARD REMOVALS
		A. REFER TO D-SHEETS FOR BOLLARD REMOVAL LOCATIONS.
		B. REMOVALS SHALL BECOME PROPERTY OF THE CONTRACTOR.
119		IRRIGATION REMOVAL
		A. ITEM SHALL INCLUDE REMOVAL OF EXISTING IRRIGATION SYSTEM WITHIN THE PROJECT LIMITS. ITEM SHALL ALSO INCLUDE SALVAGE AND TURNOVER TO OWNER HEADS AND CONTROLLERS.



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1	2/9/2024		ADDENDUM 1



THE EASTERN IOWA AIRPORT
2024 PARKING LOT AND ROADWAY IMPROVEMENTS
 CEDAR RAPIDS, IA

ESTIMATE REFERENCE NOTES

SHEET NO.
C.04

TABULATION OF EXISTING STRUCTURES

DESCRIPTION	LOCATION		SHEET
	NORTHING	EASTING	
REMOVE SUBDRAIN CLEANOUT	3427982.08'	5411750.44'	D.01
ADJUST SUBDRAIN CLEANOUT	3428044.71'	5411719.33'	D.01
ADJUST SUBDRAIN CLEANOUT	3428089.45'	5411729.96'	D.01
ADJUST SUBDRAIN CLEANOUT	3428162.18'	5411728.11'	D.01
ADJUST SUBDRAIN CLEANOUT	3428191.75'	5411723.30'	D.01
ADJUST SUBDRAIN CLEANOUT	3428210.48'	5411740.07'	D.01
ADJUST SUBDRAIN CLEANOUT	342210.97'	5411800.01'	D.01 & D.03
ADJUST SUBDRAIN CLEANOUT	3428211.11'	5411843.82'	D.01
REMOVE STORM STRUCTURE	3428170.39'	5411755.05'	D.01
REMOVE STORM STRUCTURE	3428101.50'	5411764.26'	D.01
REMOVE STORM STRUCTURE	3428075.86'	5411798.42'	D.01
REMOVE STORM STRUCTURE	3428031.96'	5411876.07'	D.01
REMOVE STORM STRUCTURE	3428015.17'	5411927.67'	D.01
REMOVE STORM STRUCTURE	3428141.06'	5411875.19'	D.01
REMOVE STORM STRUCTURE	3428128.63'	5411880.06'	D.01
REMOVE STORM STRUCTURE	3428148.18'	5411895.11'	D.01
REMOVE STORM STRUCTURE	3428192.68'	5411843.87'	D.01
REMOVE STORM STRUCTURE	3428208.23'	5411946.12'	D.01 & D.03
REMOVE STORM STRUCTURE	3428215.21'	5411940.31'	D.01 & D.03
REMOVE STORM STRUCTURE	3428186.62'	5411973.76'	D.01 & D.03
REMOVE STORM STRUCTURE	3428194.37'	5412063.59'	D.01-D.03
REMOVE STORM STRUCTURE	3428198.13'	5412208.00'	D.01-D.03
REMOVE STORM STRUCTURE	3428201.74'	5412243.00'	D.02 & D.03
REMOVE INTAKE TOP AND REPLACE W/ SW-602	3427877.42'	5412157.42'	D.02
REMOVE STORM STRUCTURE	3428262.63'	5411947.51'	D.03
REMOVE STORM STRUCTURE	3428460.00'	5412041.26'	D.03

TABULATION PAVEMENT REMOVALS

DESCRIPTION	TOTAL (SY)	SHEET
	PAVEMENT REMOVAL	5,057
	1,071	D.01 & D.02
	70	D.01
	7	D.01
	5	D.01 & D.03
TOTAL	6,210	
SIDEWALK REMOVAL		
	175	D.01
	7	D.01 & D.02
	41	D.01 & D.02
	188	D.01
	27	D.01
	20	D.01
TOTAL	458	

TABULATION OF SIGN REMOVAL/RELOCATION

DESCRIPTION	LOCATION		NOTES	SHEET
	NORTHING	EASTING		
REMOVE EXISTING SIGN AND POST	3427904.06'	5412125.16'		D.01
REMOVE EXISTING SIGN AND POST	3427925.70'	5411772.23'		D.01
REMOVE EXISTING SIGN AND POST	3427983.16'	5411693.78'	RELOCATE "LANE END MERGE" SIGN	D.01/K.01
REMOVE EXISTING SIGN AND POST	3428005.74'	5411929.57'		D.01
REMOVE EXISTING SIGN AND POST	3428053.05'	5411721.16'		D.01
REMOVE EXISTING SIGN AND BASE	3428053.66'	5411750.76'	RELOCATE PARKING LOT RATE SIGN	D.01/K.01
REMOVE EXISTING SIGN AND BASE	3428024.72'	5411751.28'	RELOCATE PARKING LOT RATE SIGN	D.01/K.01
REMOVE EXISTING SIGN AND POST	3428021.55'	5411721.55'		D.01
REMOVE EXISTING SIGN AND POST	3428128.18'	5411872.32'		D.01
REMOVE EXISTING SIGN AND POST	3428411.97'	5411892.85'		D.03
REMOVE EXISTING SIGN AND BASE	3428415.31'	5411917.05'	RELOCATE PARKING LOT RATE SIGN	D.03/K.01
REMOVE EXISTING SIGN AND POST	3428402.49'	5411961.58'		D.03
REMOVE EXISTING SIGN AND POST	3428445.42'	5411891.78'		D.03
REMOVE EXISTING SIGN AND BASE	3428444.48'	5411916.51'	RELOCATE PARKING LOT RATE SIGN	D.03/K.01
REMOVE EXISTING SIGN AND POST	3428443.28'	5411947.12'		D.03

TABULATION PIPE REMOVALS

DESCRIPTION	TOTAL (LF)	SHEET	NOTES
	6" SUBDRAIN	137	D.01
	122	D.01	
	232	D.01 & D.02	
	291	D.02	
	309	D.02	
TOTAL	1,091		
STORM SEWER, LESS THAN OR EQUAL TO 36 IN.	150	D.01	15 IN
	70	D.01	15 IN FILLED WITH CLSM
	43	D.01	15 IN
	70	D.01	15 IN
	118	D.01	18 IN
	100	D.01 & D.03	15 IN
	22	D.01	18 IN
	14	D.01	15 IN
	52	D.01	18 IN
	88	D.01	18 IN
	174	D.01	18 IN
	9	D.01 & D.03	15 IN
	36	D.01 & D.03	15 IN
	90	D.01 & D.03	24 IN
	145	D.01-D.03	24IN
	36	D.01-D.03	24 IN
	20	D.02	30 IN
	16	D.02	24 IN
	49	D.03	15 IN
	160	D.03	36 IN ARCH TO BE REINSTALLED
TOTAL	1,478		

TABULATION OF SPECIALITY SIGNS

DESCRIPTION	LOCATION		NOTES	SHEET
	NORTHING	EASTING		
EXISTING SPECIALITY				
SIGN PANEL RELOCATION AND EDIT TEXT	3428051.05'	5411879.36'	REMOVE EXISTING STONE SIGN AND BASE	D.01/K.04
SIGN PANEL RELOCATION AND EDIT TEXT	3428293.24'	5411952.11'	REMOVE EXISTING STONE SIGN AND BASE	D.03/K.04
SIGN PANEL EDIT TEXT	3428329.00'	5412561.00'		K.04
SIGN PANEL EDIT TEXT	3427852.97'	5412162.43'		K.04
SIGN PANEL EDIT TEXT	3427790.47'	5412163.01'		K.04
SIGN PANEL EDIT TEXT	3427728.47'	5412163.57'		K.04
SIGN PANEL EDIT TEXT	3427643.89'	5412164.35'		K.04
SIGN PANEL RELOCATION	3428216.97'	5412631.80'	RELOCATE SIGN PANEL TO EXISTING EXIT DRIVE	D.02/K.04
SIGN PANEL RELOCATION	3428691.93'	5412558.51'	RELOCATE SIGN PANEL TO EXISTING ARTHUR COLLINS	K.05
NEW SPECIALITY SIGN PANEL	3428220.16'	5412412.86'	TYPE A, SHEET ALUMINUM	K.04
NEW SPECIALITY SIGN PANEL	3428181.25'	5412415.75'	TYPE A, SHEET ALUMINUM	K.04
NEW SPECIALITY SIGN PANEL	3427896.67'	5412604.52'	TYPE A, SHEET ALUMINUM, REMOVE EXISTING SIGN	K.04
NEW SPECIALITY SIGN PANEL	3427580.93'	5412676.80'	TYPE A, SHEET ALUMINUM	K.04

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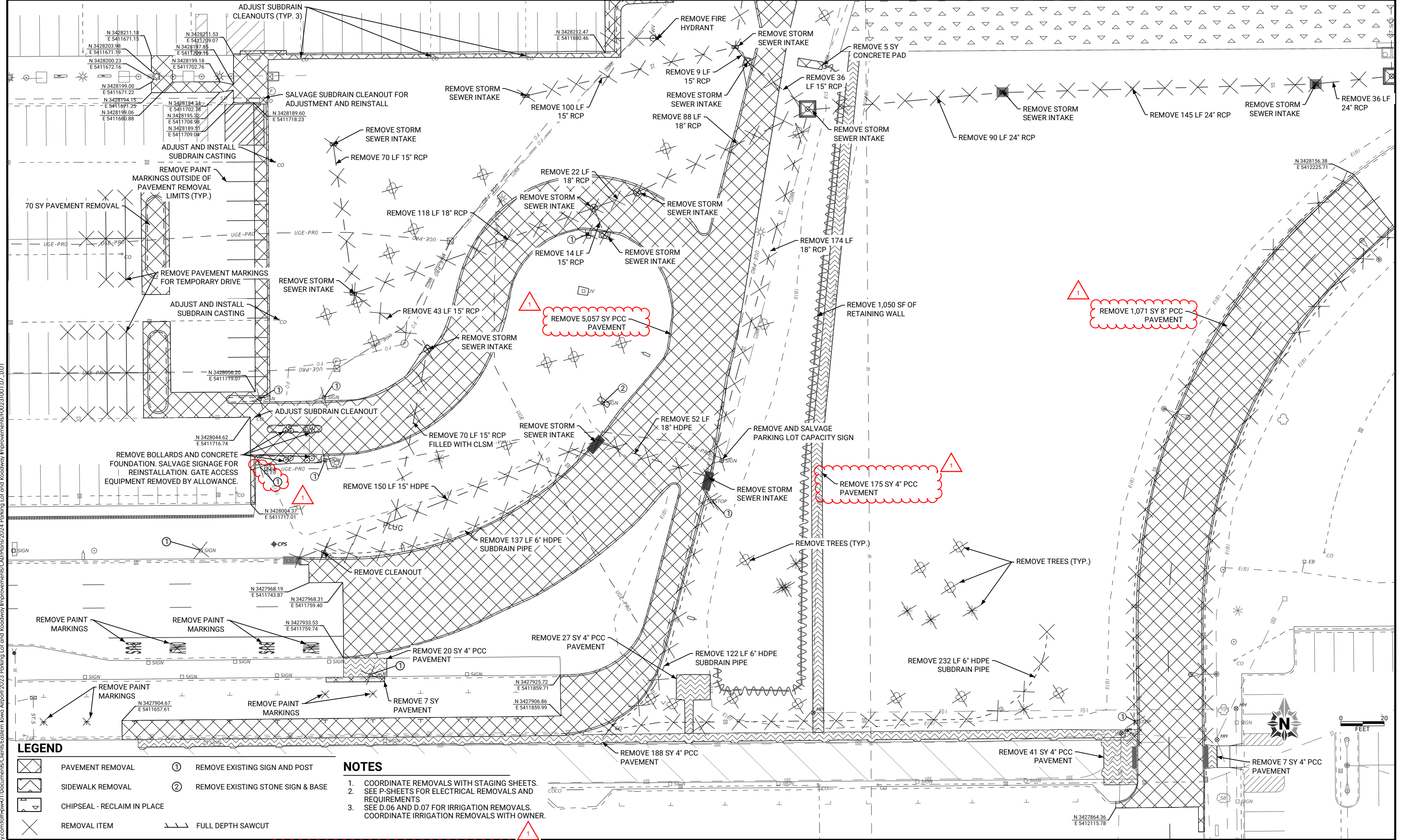
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1	2/9/2024		ADDENDUM 1



THE EASTERN IOWA AIRPORT
2024 PARKING LOT AND ROADWAY IMPROVEMENTS
 CEDAR RAPIDS, IA

REMOVAL AND SIGN TABULATIONS

SHEET NO.
C.05



LEGEND

	PAVEMENT REMOVAL	①	REMOVE EXISTING SIGN AND POST
	SIDEWALK REMOVAL	②	REMOVE EXISTING STONE SIGN & BASE
	CHIPSEAL - RECLAIM IN PLACE		
	REMOVAL ITEM		FULL DEPTH SAWCUT

- NOTES**
- COORDINATE REMOVALS WITH STAGING SHEETS.
 - SEE P-SHEETS FOR ELECTRICAL REMOVALS AND REQUIREMENTS
 - SEE D.06 AND D.07 FOR IRRIGATION REMOVALS. COORDINATE IRRIGATION REMOVALS WITH OWNER.

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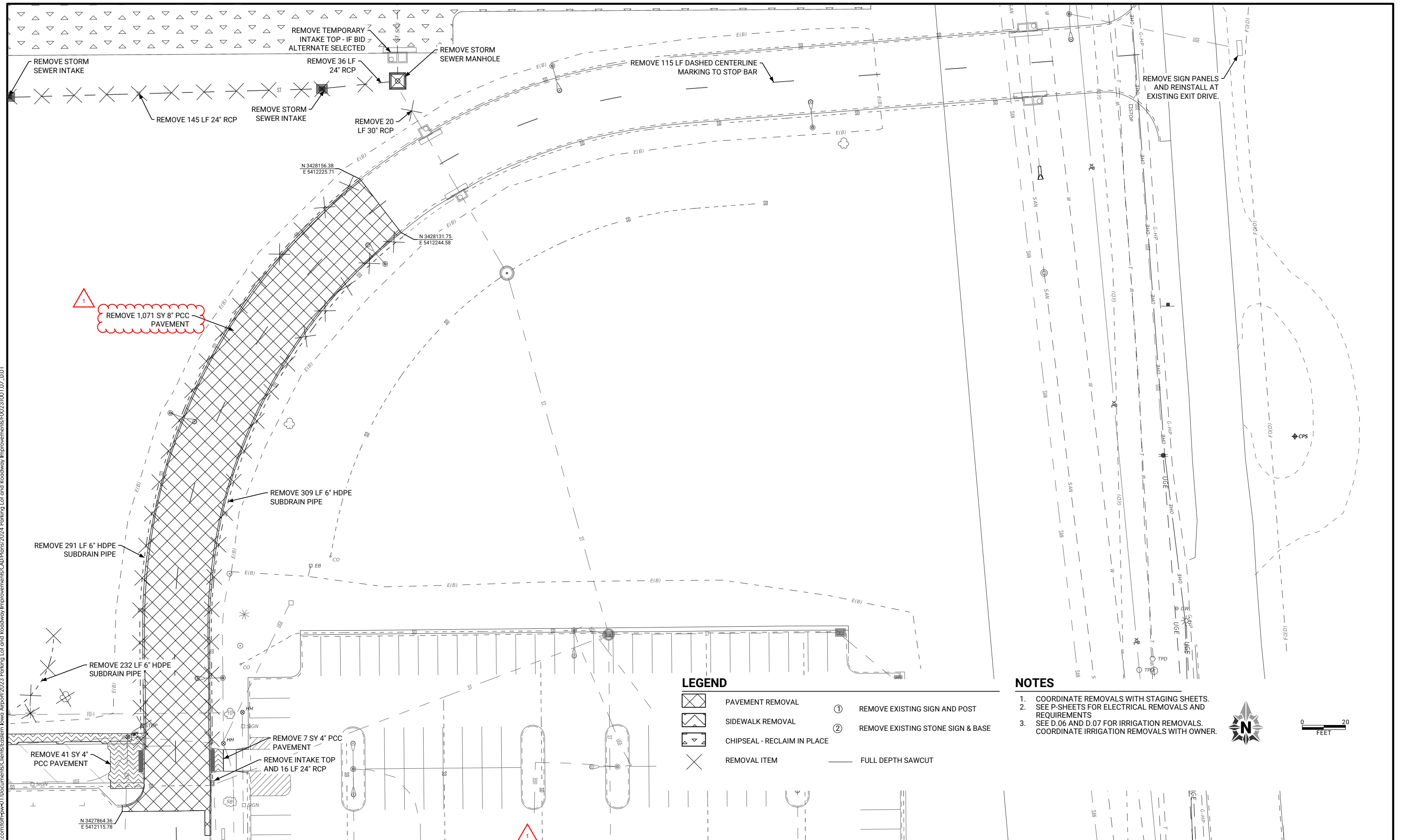
**THE EASTERN IOWA AIRPORT
 2024 PARKING LOT AND ROADWAY IMPROVEMENTS**

REMOVALS

CEDAR RAPIDS, IA

SHEET NO.
D.01

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LEGEND

- | | | | |
|--|-----------------------------|---|-----------------------------------|
| | PAVEMENT REMOVAL | ① | REMOVE EXISTING SIGN AND POST |
| | SIDEWALK REMOVAL | ② | REMOVE EXISTING STONE SIGN & BASE |
| | CHIPSEAL - RECLAIM IN PLACE | | |
| | REMOVAL ITEM | | |
| | | | FULL DEPTH SAWCUT |

NOTES

- COORDINATE REMOVALS WITH STAGING SHEETS.
- SEE P-SHEETS FOR ELECTRICAL REMOVALS AND REQUIREMENTS
- SEE D.06 AND D.07 FOR IRRIGATION REMOVALS. COORDINATE IRRIGATION REMOVALS WITH OWNER.



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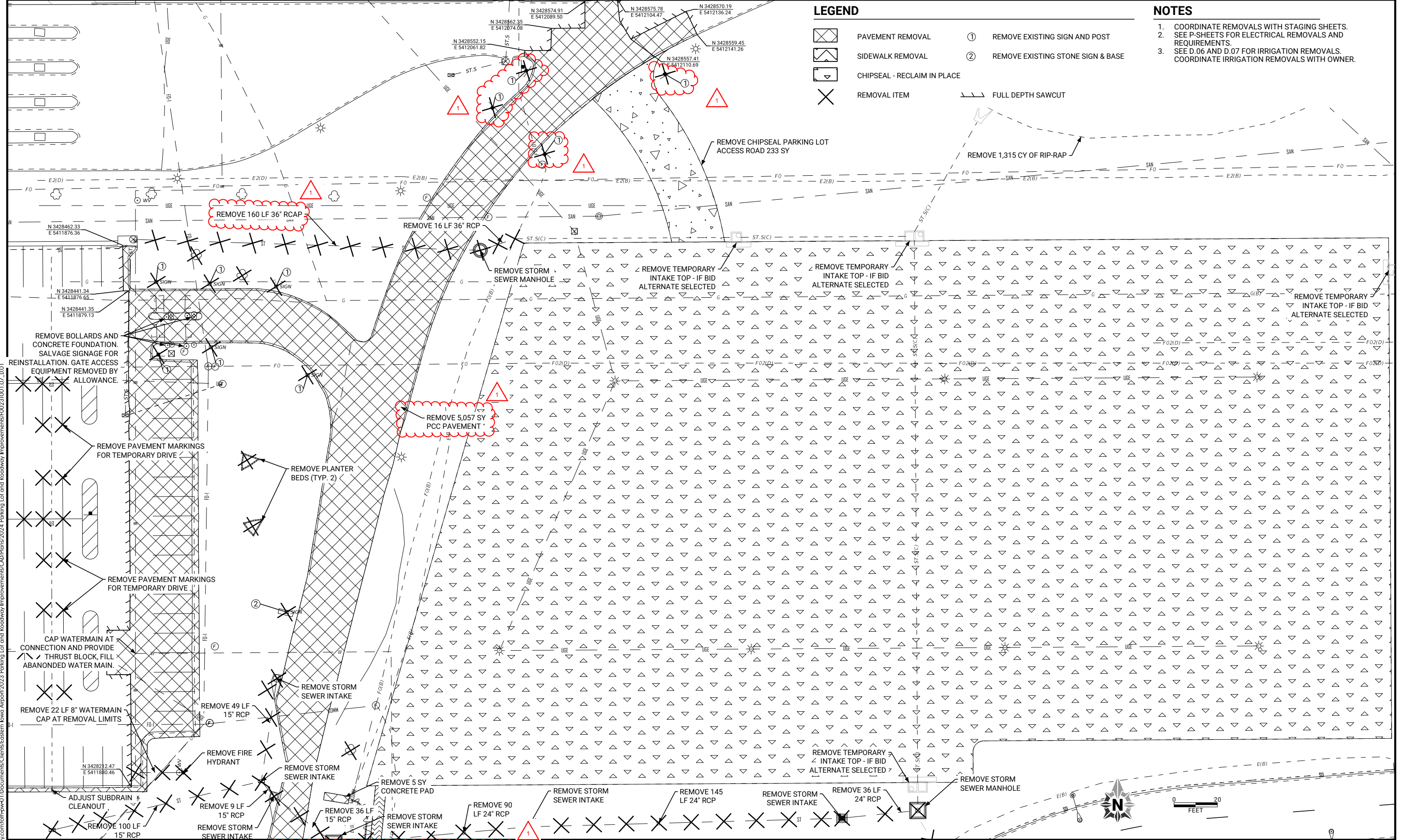
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THE EASTERN IOWA AIRPORT
2024 PARKING LOT AND ROADWAY IMPROVEMENTS
 CEDAR RAPIDS, IA

REMOVALS

SHEET NO.
D.02



LEGEND

- PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- CHIPSEAL - RECLAIM IN PLACE
- REMOVAL ITEM
- REMOVE EXISTING SIGN AND POST
- REMOVE EXISTING STONE SIGN & BASE
- FULL DEPTH SAWCUT

NOTES

1. COORDINATE REMOVALS WITH STAGING SHEETS.
2. SEE P-SHEETS FOR ELECTRICAL REMOVALS AND REQUIREMENTS.
3. SEE D.06 AND D.07 FOR IRRIGATION REMOVALS. COORDINATE IRRIGATION REMOVALS WITH OWNER.

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1	2/9/2024		ADDENDUM 1



THE EASTERN IOWA AIRPORT
2024 PARKING LOT AND ROADWAY IMPROVEMENTS
 CEDAR RAPIDS, IA

REMOVALS

SHEET NO.
D.03

STORM SEWER

INTAKES AND UTILITY ACCESSES

PIPES

* Bid Item

Design Length, Slope, and Flowlines are calculated from inside wall to inside wall along CL of pipe. An additional 2 ft length is added to each side of the Design Length to account for the estimated length to the center of structures.

Structure Number	Location		*Type or Standard Road Plan	Rim/Form Grade Elevation	Bottom Well Elevation	Notes
	Station	Offset				
S-1	2041+86.33	23.15 RT	SW-505	856.90	852.40	
S-2	30+45.48	23.86 LT	SW-505			EXISTING STRUCTURE
S-3	33+75.05	17.41 LT	SW-505 MOD 1	855.69	847.22	MODIFIED FOR DEPTH
S-4	300+24.94	58.67 LT	SW-502 (60")	852.23	846.13	SW-604 CASTING
S-5	402+16.58	37.61 LT	SW-505	854.82	849.32	
S-6	403+60.58	37.61 LT	SW-505	853.16	846.60	
S-7	404+41.33	36.61 LT	SW-402 (5' X 5') MOD 1	852.29	845.10	SW-604 CASTING
S-8	301+42.19	18.75 RT	SW-505	850.89	843.95	
S-9	N 3427869.36	E 5412156.77	SW-506	856.30	850.60	
S-10	N 3427878.88	E 5412156.85	SW-507			USE EXISTING STRUCTURE. INSTALL TOP
S-11	36+42.40	15.09 LT	SW-508			EXISTING STRUCTURE
S-12	36+38.83	35.04 LT	SW-401 (72")	842.83	842.33	
S-13	301+65.00	118.11 RT	SW-510	848.22		DIV. 3 - USE EXISTING STRUCTURE. INSTALL THROAT AND LID
S-14	304+14.83	244.32 LT	SW-509			EXISTING STRUCTURE
S-15	304+14.83	132.25 LT	SW-508	848.68	843.40	
S-16	304+16.83	66.07 LT	SW-211	FL = 843.40	FIELD VERIFY	REFER TO STANDARD DETAIL 4020.211
S-17	304+14.83	36.08 RT	SW-508	847.84	841.10	USE EXISTING STRUCTURE. INSTALL THROAT AND LID
S-18	304+1.83	118.11 RT	SW-510	847.43		DIV. 3 - USE EXISTING STRUCTURE. INSTALL THROAT AND LID
S-19	N 3428635.18	E 5412400.22	SW-510			EXISTING STRUCTURE
S-20	305+43.31	366.72 RT	SW-513			EXISTING STRUCTURE
S-21	304+00.01	336.80 RT	SW-508	847.24		DIV. 3 - USE EXISTING STRUCTURE. INSTALL THROAT AND LID
S-22	303+33.72	388.60 RT	SW-511	843.10	838.49	
TOTALS						
			SW-401 (72")	1	DIV. 2	
			SW-402 (5' X 5') MOD 1	1	DIV. 1	
			SW-502 (60")	1	DIV. 1	
			SW-505	2	DIV. 1	
			SW-505	2	DIV. 2	
			SW-505 MOD 1	1	DIV. 1	
			SW-506	1	DIV. 1	
			SW-507	1	DIV. 1	USE EXISTING STRUCTURE. INSTALL TOP
			SW-508	1	DIV. 2	
			SW-508	2	DIV. 2	USE EXISTING STRUCTURE. INSTALL THROAT AND LID
			SW-510	2	DIV. 3	USE EXISTING STRUCTURE. INSTALL THROAT AND LID
			SW-511	1	DIV. 2	

Line Number	Intake/Utility Access Number		Class	Pipe Size	Bid* Length	Design Length	Slope %	Flow Lines			Pipe Profile Sheet Number	Notes
	From	To						Inlet Elevation	Outlet Elevation	Other Elevation		
P-1	S-1	S-3	III	15	112	110.10	3.80	852.90	848.72		M.03	AGGREGATE BACKFILL TO BOTTOM OF SUBBASE
P-2	S-2	S-3	III	15	312	308.49	3.01	858.01	848.72		M.04	AGGREGATE BACKFILL TO BOTTOM OF SUBBASE
P-3	S-3	S-4	III	30	68	65.72	1.51	847.72	846.73		M.03	
P-4	S-4	S-7	III	30	120	115.75	0.50	846.63	846.05		M.03	AGGREGATE BACKFILL TO BOTTOM OF SUBBASE
P-5	S-5	S-6	III	18	144	137.33	1.33	849.82	848.00		M.05	AGGREGATE BACKFILL TO BOTTOM OF SUBBASE
P-6	S-6	S-7	III	24	81	75.42	1.52	847.60	846.45		M.05	AGGREGATE BACKFILL TO BOTTOM OF SUBBASE
P-7	S-7	S-8	III	36	80	73.42	1.50	845.65	844.55		M.05	AGGREGATE BACKFILL TO BOTTOM OF SUBBASE
P-8	S-8	S-12	III	36	100	96.37	1.50	844.45	843.00		M.05	
P-9	S-9	S-10	III	24	7	4.20	2.38	851.10	851.00		M.03	AGGREGATE BACKFILL TO BOTTOM OF SUBBASE
P-11	S-11	S-12	III	30	20	13.47	0.74	843.10	843.00		M.06	
P-12	S-12	S-13	III	36	23	15.81	0.63	842.83	842.73		M.06	
P-14	S-14	S-15	III	36	113	106.07	0.22	844.53	844.30		M.07	
P-15	S-15	S-16	III	36	68	64.18	1.40	844.30	843.40		M.07	
P-18	S-18	S-20	PVC	12	334	326.73	0.33	840.27	839.20		M.08	
P-19	S-19	S-20	PVC	12	106	98.31	1.13	840.31	839.20		M.08	
TOTALS												
			PVC	12	440	DIV. 2						
			AGG. BACKFILL	15	424	DIV. 1						
			AGG. BACKFILL	18	144	DIV. 2						
			AGG. BACKFILL	24	7	DIV. 1						
			AGG. BACKFILL	24	81	DIV. 2						
			EARTH BACKFILL	30	68	DIV. 1						
			EARTH BACKFILL	30	20	DIV. 2						
			AGG. BACKFILL	30	120	DIV. 1						
			EARTH BACKFILL	36	304	DIV. 2						
			AGG. BACKFILL	36	80	DIV. 2						

STORM SEWER NOTES:

- STORM SEWER BASIS OF DESIGN IS REINFORCED CONCRETE PIPE (RCP). AT THE CONTRACTOR'S OPTION, IN LIEU OF RCP, POLYPROPYLENE STORM SEWER PIPE IN ACCORDANCE WITH SUDAS STANDARD SPECIFICATION SECTION 4020. 2.01 L. (DOUBLE AND TRIPLE WALL PIPE), TRENCH BEDDING CLASS F-2, PER SUDAS FIGURE 3010.103, MAY BE USED. POLYPROPYLENE PIPE SHALL BE PERFORATED (AT THE PLANT) AND PERFORATION PATTERN SHALL BE PER AASHTO CLASS II STANDARD PERFORATION PATTERN (BOTH ENDS (TWO VALLEYS) AND MIDPOINT (THREE VALLEYS) OF PIPE STICK AND EVERY 45-DEGREES RADIALLY AROUND PIPE). EACH PERFORATION LOCATION SHALL BE WRAPPED WITH NON-WOVEN GEOTEXTILE FABRIC ONE-FOOT BEYOND EACH PERFORATION.

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THE EASTERN IOWA AIRPORT
2024 PARKING LOT AND ROADWAY IMPROVEMENTS
 CEDAR RAPIDS, IA

STORM SEWER TABULATIONS

SHEET NO.
M.01

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SUBDRAIN									
NUMBER	TYPE	LENGTH FT.	BEGINNING FLOWLINE ELEVATION	BEGINNING SURFACE ELEVATION	ENDING FLOWLINE ELEVATION	ENDING SURFACE ELEVATION	BEGINNING CLEANOUT NUMBER	POROUS BACKFILL (FT ³)*	NOTE
SD-2	6" Ø PERF. CASE B	282	853.86	856.86	847.77	850.77	S-1	564	CONNECT TO EXISTING SUBDRAIN
SD-3	6" Ø PERF. CASE B	314	858.96	861.96	852.69	855.69	S-2	628	
SD-4	6" Ø PERF. CASE B	228	852.69	855.69	847.68	850.68	S-3	456	CONNECT TO EXISTING SUBDRAIN
SD-5	6" Ø PERF. CASE C	114	854.03	856.36	852.49	854.82	CO-5	171	
SD-5A	6" Ø PERF. CASE C	183	855.06	857.39	853.95	856.28	CO-5A	275	CONNECT TO SD-5
SD-5B	6" Ø PERF. CASE C	183	854.56	856.89	853.30	855.63	CO-5B	275	CONNECT TO SD-5
SD-5C	6" Ø PERF. CASE C	183	854.05	856.38	852.65	854.98	CO-5C	275	CONNECT TO SD-5
SD-5D	6" Ø PERF. CASE C	218	853.55	855.88	852.49	854.82	CO-5D	327	CONNECT TO S-5
SD-6	6" Ø PERF. CASE C	181	852.54	854.87	852.49	854.82	CO-6	275	
SD-6A	6" Ø PERF. CASE C	228	853.04	855.37	850.83	853.16	CO-6A	342	CONNECT TO S-6
SD-8	6" Ø PERF. CASE B	108	850.10	853.10	847.89	850.89	CO-8	216	
SD-15	6" Ø PERF. CASE C	248	850.15	852.48	846.35	848.68	CO-15	372	
SD-15A	6" Ø PERF. CASE C	344	851.36	853.69	846.35	848.68	CO-15A	516	CONNECT TO S-15
SD-15B	6" Ø PERF. CASE C	248	850.75	853.08	846.62	848.95	CO-15B	372	CONNECT TO SD-15A
SD-15C	6" Ø PERF. CASE C	248	849.55	851.88	846.16	848.49	CO-15C	372	CONNECT TO SD-15D
SD-15D	6" Ø PERF. CASE C	344	848.96	851.29	846.35	848.68	CO-15D	516	CONNECT TO S-15
SD-17	6" Ø PERF. CASE C	264	848.33	850.66	845.51	847.84	CO-17	396	
SD-17A	6" Ø PERF. CASE C	280	847.24	849.57	845.51	847.84	CO-17A	420	DIVISION 3 (BID ALT 1)
SD-18	6" Ø PERF. CASE B	216	844.55	847.38	844.60	847.43	CO-18	432	DIVISION 3 (BID ALT 1)
SD-18A	6" Ø PERF. CASE C	239	846.75	849.08	844.87	847.70	CO-18A	359	CONNECT TO SD-18 - DIVISION 3 (BID ALT 1)
SD-18B	6" Ø PERF. CASE C	239	847.20	849.53	845.17	848.00	CO-18B	359	CONNECT TO SD-18 - DIVISION 3 (BID ALT 1)
SD-18C	6" Ø PERF. CASE C	239	846.82	849.15	844.98	847.81	CO-18C	359	CONNECT TO SD-18 - DIVISION 3 (BID ALT 1)
SD-18D	6" Ø PERF. CASE C	239	846.37	848.70	844.69	847.52	CO-18D	359	CONNECT TO SD-18 - DIVISION 3 (BID ALT 1)
SUBDRAIN TOTAL:							POROUS TOTAL:		
DIV. 1 & 2 (BASE BID)			3918				DIV. 1 & 2 (BASE BID)		
DIVISION 3 (BID ALT 1)			1452				DIVISION 3 (BID ALT 1)		

DIVISION 1 (RISE) ←

CLEANOUTS		
NUMBER	STATION	OFFSET
CO-5	401+04.90	34.61' LT
CO-5A	401+07.45	145.75' RT
CO-5B	401+57.45	145.75' RT
CO-5C	402+07.45	145.75' RT
CO-5D	402+57.45	145.75' RT
CO-6	403+57.45	145.75' RT
CO-6A	403+07.45	145.75' RT
CO-8	34+89.69	19.15' LT
CO-15	301+67.00	131.00' LT
CO-15A	301+67.00	231.00' LT
CO-15B	301+67.00	181.00' LT
CO-15C	301+67.00	81.00' LT
CO-15D	301+67.00	31.00' LT
CO-17	301+64.00	19.00' RT
CO-17A	301+64.00	69.00' RT
CO-18	304+18.83	337.80' RT
CO-18A	301+83.00	169.00' RT
CO-18B	301+83.00	219.00' RT
CO-18C	301+83.00	269.00' RT
CO-18D	301+83.00	319.00' RT

← DIVISION 3 (BID ALT 1)

TOTAL SCHEDULED		
	DIV. 1 & 2 (BASE BID)	DIVISION 3 (BID ALT 1)
6" Ø PERF.	3918	1452
6" Ø NON-PERF.	-	-
CLEANOUT - TYPE I	14	6
STORM SEWER STRUCTURE TIE-IN	10	1
ROOF DRAIN TIE-IN	5	-

- SUBDRAIN NOTES:
1. CONNECTION TO EXISTING SUBDRAIN IS INCIDENTAL TO SUBDRAIN INSTALLATION. CONNECTION TO BE MADE WITH PROPER FITTING OR FURNCO CONNECTION.
 2. POROUS BACKFILL QUANTITY IS CALCULATED BASED ON A ONE FOOT WIDE TRENCH.
 3. POROUS BACKFILL IS INCIDENTAL TO SUBDRAIN LINEAR FOOT PRICE.

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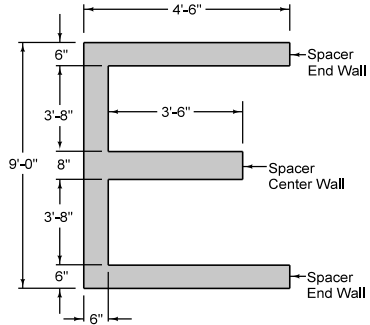
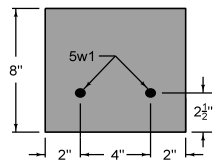
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THE EASTERN IOWA AIRPORT
2024 PARKING LOT AND ROADWAY IMPROVEMENTS
 CEDAR RAPIDS, IA

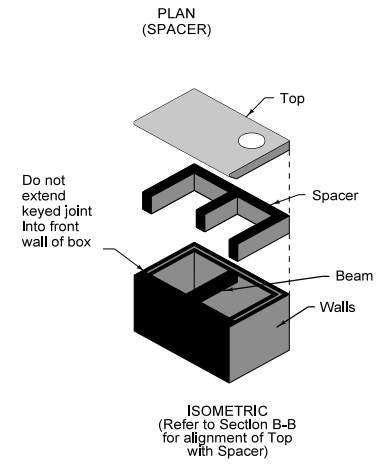
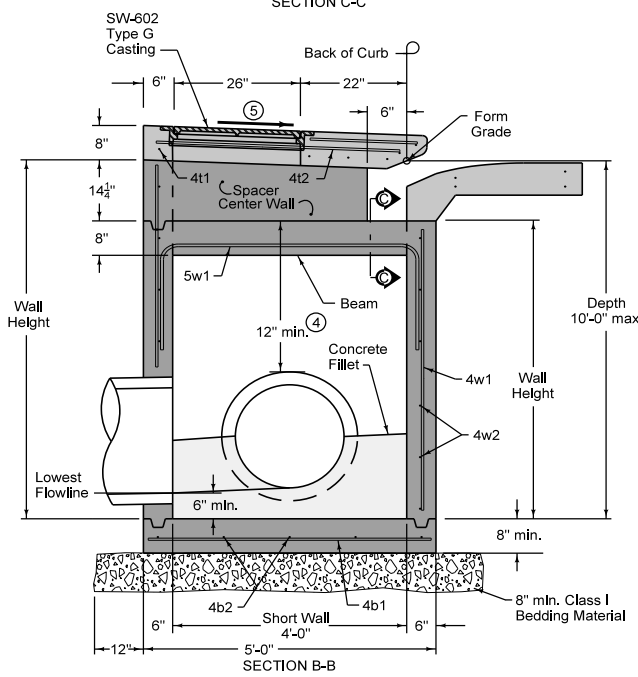
SUBDRAIN TABULATIONS

SHEET NO.
M.02



- ④ 12 inch minimum wall height above all pipes.
- ⑤ Slope of 1.5% or as specified in the contract documents.

MAXIMUM PIPE DIAMETERS		
Pipe Location	Precast Structure	Cast-in-place Structure
Short Wall	30"	36"
Long Wall	60"	66"

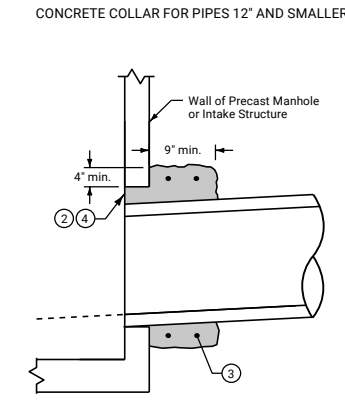
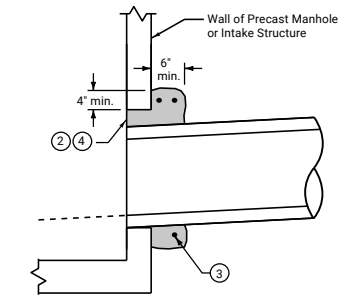
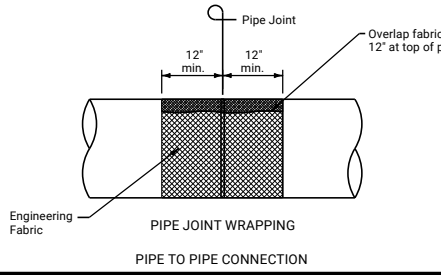
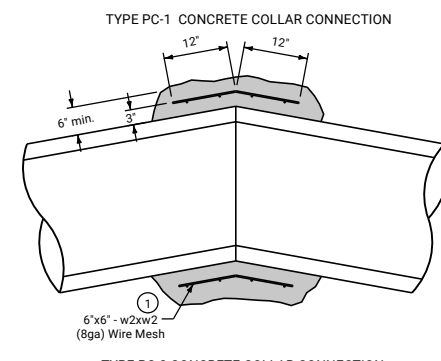
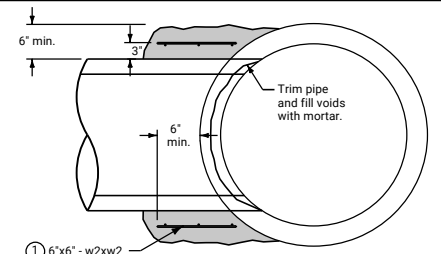


REVISION		
NO.	DATE	DESCRIPTION
6	04-21-20	ADDED CLASS I BEDDING MATERIAL AND CHANGED MAXIMUM BOX LENGTH TO 17'

FIGURE 6010.510 STANDARD ROAD PLAN SW-510 SHEET 3 of 3

REVISIONS: Added Class I Bedding Material and changed maximum box length to 17'.
SUDAS DIRECTOR DESIGN METHOD ENGINEER

DOUBLE OPEN-THROAT CURB INTAKE, LARGE BOX



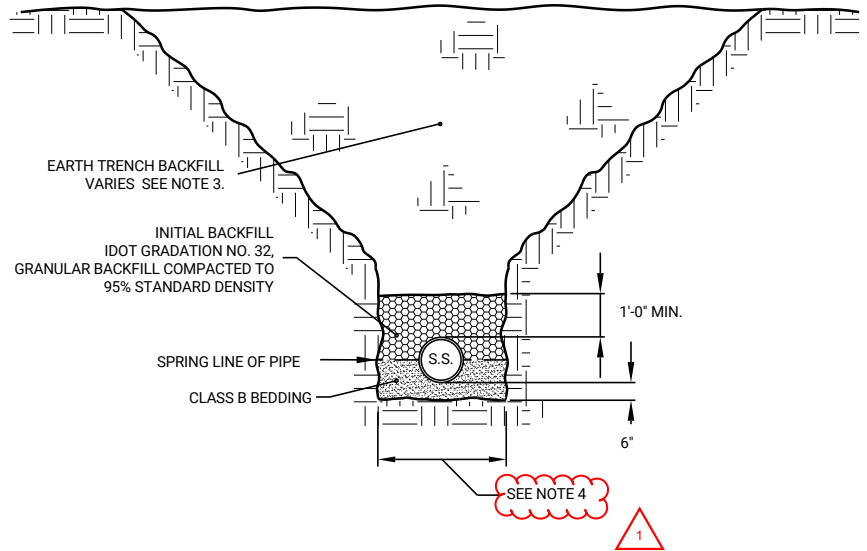
- ① Lap ends of wire mesh a minimum of 6 inches.
- ② Concrete collar is required when annular space between the outside of the pipe and the wall of the structure is 2 inches or greater.
- ③ Provide two #4 hoop bars in concrete collar. Lap bars a minimum of 6 inches.
- ④ Trowel concrete flush with inside wall of structure.

REVISION		
NO.	DATE	DESCRIPTION
2	04-17-18	REMOVED 'INVERT' CALLOUT ON PIPE TO STRUCTURE VIEW. RETITLED AND REPLACED OLD IOWA DOT AND SUDAS LOGOS WITH NEW LOGOS.

FIGURE 4020.211 STANDARD ROAD PLAN SW-211 SHEET 1 of 1

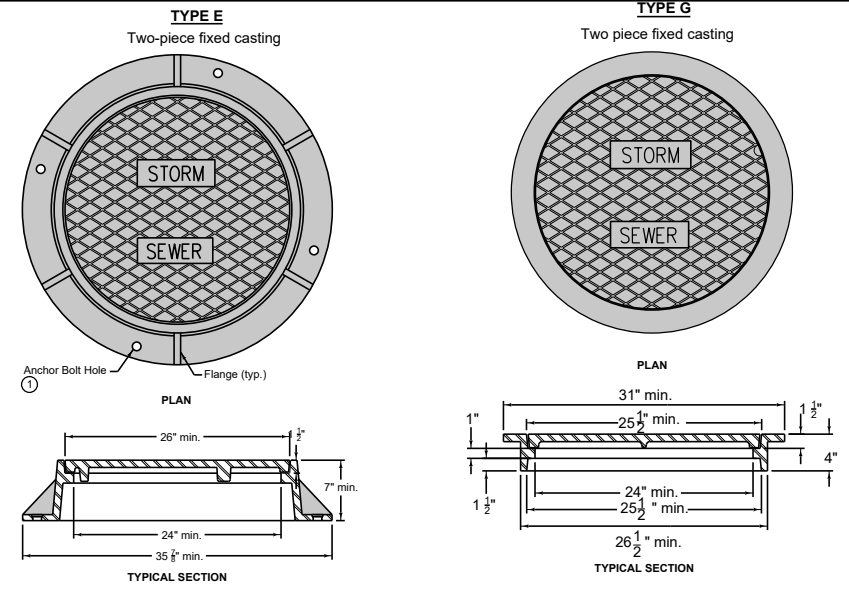
REVISIONS: Removed 'invert' callout on Pipe to Structure View. Retitled and replaced old Iowa DOT and SUDAS logos with new logos.
SUDAS DIRECTOR DESIGN METHOD ENGINEER

STORM SEWER PIPE CONNECTIONS



- NOTES:
- BEDDING, INITIAL BACKFILL, AND TRENCH BACKFILL SHALL BE INCIDENTAL TO STORM SEWER INSTALLATION.
 - HAULING/DISPOSING OF WASTE SOIL FROM PIPE INSTALLATION IS INCIDENTAL TO UNIT PRICE OF INSTALLED PIPE.
 - FOR PIPE INSTALLED UNDER PAVEMENT AND AT BACK OF CURB, BACKFILL SHALL BE IDOT GRADATION NO. 32, GRANULAR BACKFILL COMPACTED TO 95% STANDARD DENSITY AND FILLED TO BOTTOM OF PAVEMENT SUBBASE.
 - TRENCH WIDTH FOR RIGID PIPE SHALL BE IN ACCORDANCE WITH SUDAS DETAIL 3010.102. MINIMUM TRENCH WIDTH SHALL BE O.D. PLUS 18 INCHES AND A MAXIMUM OF 1.25 TIMES O.D. PLUS 12 INCHES OR 54 INCHES (WHICHEVER IS GREATER). TRENCH WIDTH FOR FLEXIBLE PIPE SHALL BE IN ACCORDANCE WITH SUDAS DETAIL 3010.103. MINIMUM TRENCH WIDTH SHALL BE O.D. PLUS 18 INCHES OR 1.25 TIMES O.D. PLUS 12 INCHES (WHICHEVER IS GREATER).

01 GRAVITY LINES ALL SEWER (EARTH EXCAVATION)
SCALE: NONE



- ① Anchor the lower frame of all three-piece castings to the manhole structure. When specified in the contract documents, anchor the frame of two-piece castings to the manhole structure. If casting frame does not include anchor holes or slots, drill four 7/8 inch diameter holes, equally spaced around the frame.
- Frame Notes:
Size, spacing, and number of lugs and flanges may vary.
- Cover Notes:
Roughness pattern and text style may vary.
Minimum one pickhole.

02 SW-602 CASTINGS FOR STORM SEWER MANHOLES
SCALE: NONE

REVISION		
NO.	DATE	DESCRIPTION
1	04-21-20	ADDED CLASS I BEDDING MATERIAL AND CHANGED MAXIMUM BOX LENGTH TO 17'

FIGURE 6010.602 STANDARD ROAD PLAN SW-602 SHEET 1 of 3

REVISIONS: Added Class I Bedding Material and changed maximum box length to 17'.
SUDAS DIRECTOR DESIGN METHOD ENGINEER

CASTINGS FOR STORM SEWER MANHOLES

CLIENT PROJECT NO:	FOTH PROJECT NO:	23T001.07
DESIGNED BY: DJS	CHECKED BY: EMS	DRAWN BY: DJS
LETTING DATE:	CAD DATE:	
CAD FILE:		

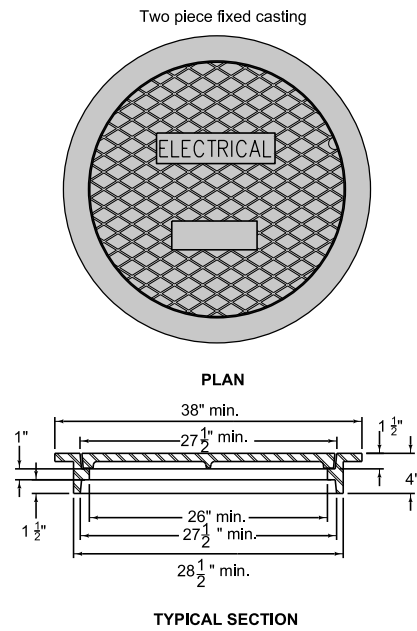
NO.	DATE	BY	REVISION DESCRIPTION
1	2/9/2024		ADDENDUM 1



THE EASTERN IOWA AIRPORT
2024 PARKING LOT AND ROADWAY IMPROVEMENTS
CEDAR RAPIDS, IA

STORM SEWER DETAILS

SHEET NO.
M.16

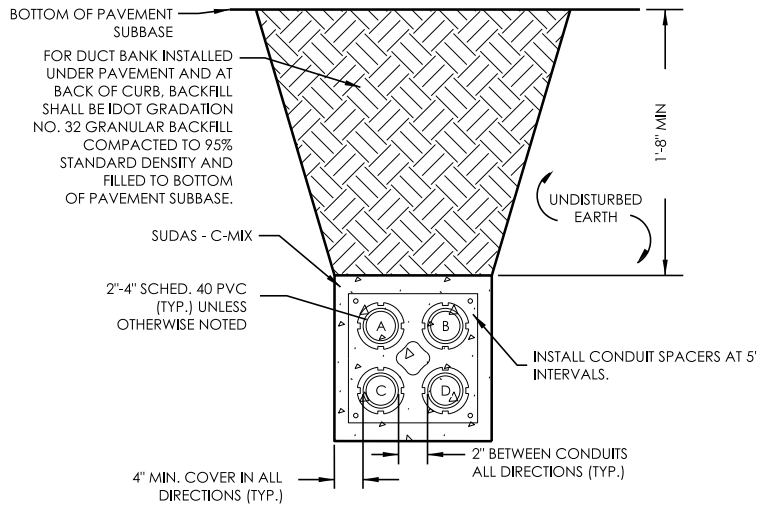


Frame Notes:
Size, spacing, and number of lugs and flanges may vary.
(Neenah 1682 or approved equal)

Cover Notes:
Roughness pattern and text style may vary. Minimum one pickhole.

CASTINGS FOR ELECTRICAL MANHOLES

01 SCALE: NONE



NOTES:

DUCTBANKS SHALL DRAIN TOWARD THE ELECTRICAL STRUCTURES WITH THE CROWN OF THE DUCT BANK MIDWAY BETWEEN MANHOLES. THE DUCT SLOPE SHALL BE 3" PER 100' (0.25%).

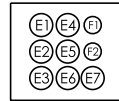
SUDAS C-MIX CONCRETE - MAXIMUM AGGREGATE SIZE SHALL BE NO GREATER THAN 30% OF THE MINIMUM CONDUIT SPACING.

CONDUIT QUANTITY IN DUCT SECTIONS MAY VARY (SEE PLAN), MAINTAIN MINIMUM SPACING AS INDICATED.

02 DUCT BANK DETAILS - CONCRETE ENCASED

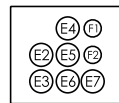
SCALE: NONE

(7) 3" CONDUIT & (2) 2" CONDUIT CONCRETE ENCASED (73 LF)



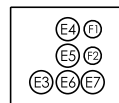
- | | |
|---|---|
| E1 3" SCH 40 PVC LIGHT CIR.
SL1,3,5,7,29,31, 33, 35 | E7 3" SCH 40 PVC LIGHT CIR.
ARTHUR COLLINS PKWY
LUMINAIRES |
| E2 3" SCH 40 PVC LIGHT CIR.
SL9,11,13,15,37,39,45,47 | F1 2" SCH 40 PVC FIBER
NETWORK TO NEW GATE
MPC'S FOR SHORT-LONG
TERM ENTRANCE. |
| E3" SCH 40 PVC IPC-1
POWER SUPPLY | F2 2" SCH 40 PVC FIBER
NETWORK FROM GATE
6 HUB |
| E4 3" SCH 40 PVC LIGHT CIR.
SL17,19,41,43, MPC-1
POWER SUPPLY | |
| E5 3" SCH 40 PVC LIGHT CIR.
SL21,23,49,51,53,55 | |
| E6 3" SCH 40 PVC LIGHT CIR.
SL25,27,57,59,61,63 | |

(6) 3" CONDUIT & (2) 2" CONDUIT CONCRETE ENCASED (124 LF)



- | | |
|---|---|
| E2 3" SCH 40 PVC LIGHT CIR.
SL9,11,13,15,37,39,45,47 | E7 3" SCH 40 PVC LIGHT CIR.
ARTHUR COLLINS PKWY
LUMINAIRES |
| E3 3" SCH 40 PVC IPC-1
POWER SUPPLY | F1 2" SCH 40 PVC FIBER
NETWORK TO NEW GATE
MPC'S FOR SHORT-LONG
TERM ENTRANCE. |
| E4 3" SCH 40 PVC LIGHT CIR.
SL17,19,41,43, MPC-1
POWER SUPPLY | F2 2" SCH 40 PVC FIBER
NETWORK FROM GATE
6 HUB |
| E5 3" SCH 40 PVC LIGHT CIR.
SL21,23,49,51,53,55 | |
| E6 3" SCH 40 PVC LIGHT CIR.
SL25,27,57,59,61,63 | |

(5) 3" CONDUIT & (2) 2" CONDUIT CONCRETE ENCASED (124 LF)



- | | |
|---|---|
| E3 3" SCH 40 PVC IPC-1
POWER SUPPLY | E7 3" SCH 40 PVC LIGHT CIR.
ARTHUR COLLINS PKWY
LUMINAIRES |
| E4 3" SCH 40 PVC LIGHT CIR.
SL17,19,41,43, MPC-1
POWER SUPPLY | F1 2" SCH 40 PVC FIBER
NETWORK TO NEW GATE
MPC'S FOR SHORT-LONG
TERM ENTRANCE. |
| E5 3" SCH 40 PVC LIGHT CIR.
SL21,23,49,51,53,55 | F2 2" SCH 40 PVC FIBER
NETWORK FROM GATE
6 HUB |
| E6 3" SCH 40 PVC LIGHT CIR.
SL25,27,57,59,61,63 | |

(3) 3" CONDUIT & (1) 2" CONDUIT CONCRETE ENCASED (79 LF)



- | | |
|--|--|
| E5 3" SCH 40 PVC LIGHT CIR.
SL21,23,49,51,53,55 | F2 2" SCH 40 PVC FIBER
NETWORK FROM GATE
6 HUB |
| E6 3" SCH 40 PVC LIGHT CIR.
SL25,27,57,59,61,63 | |
| E7 3" SCH 40 PVC LIGHT CIR.
ARTHUR COLLINS PKWY
LUMINAIRES | |

(2) 3" CONDUIT & (1) 2" CONDUIT CONCRETE ENCASED (62 LF)



- | | |
|--|--|
| E6 3" SCH 40 PVC LIGHT CIR.
SL25,27,57,59,61,63 | F2 2" SCH 40 PVC FIBER
NETWORK FROM GATE
6 HUB |
| E7 3" SCH 40 PVC LIGHT CIR.
ARTHUR COLLINS PKWY
LUMINAIRES | |

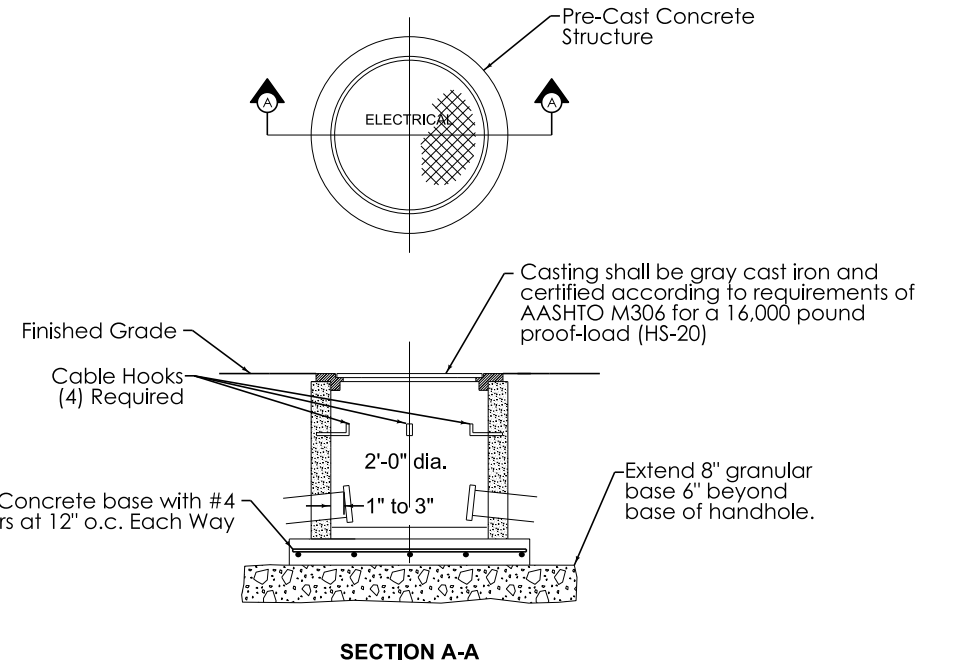
(1) 3" CONDUIT & (1) 2" CONDUIT CONCRETE ENCASED (62 LF)



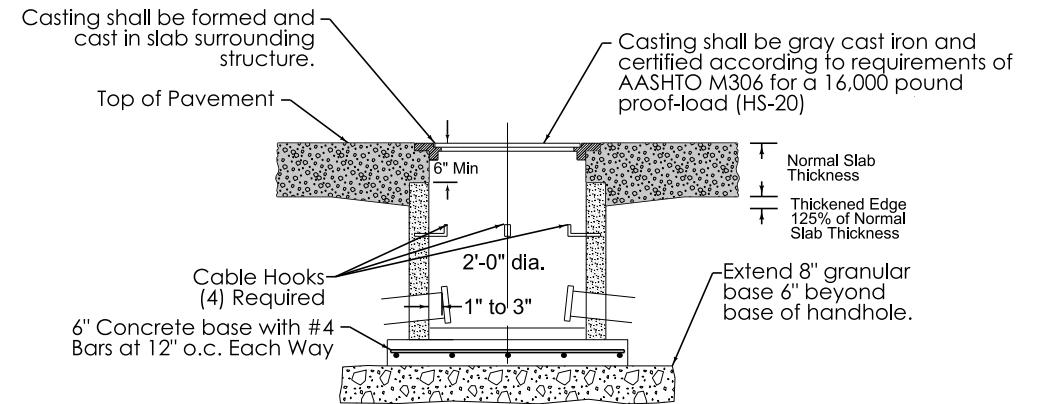
- | | |
|--|--|
| E7 3" SCH 40 PVC LIGHT CIR.
ARTHUR COLLINS PKWY
LUMINAIRES | F2 2" SCH 40 PVC FIBER
NETWORK FROM GATE
6 HUB |
|--|--|

03 DUCT BANK DETAILS - DUCT BANK SECTIONS PER PLAN

SCALE: NONE



SECTION A-A
(For two-piece fixed casting)
PRECAST CONCRETE HANDHOLE (HH-1)
IN TURF



SECTION A-A
(For two-piece fixed casting)
PRECAST CONCRETE HANDHOLE (HH-1)
IN PAVEMENT

NOTES:

BASE SHALL EXTEND A MINIMUM OF 6 INCHES BEYOND HANDHOLE WALL. IF CAST IN PLACE, BASE SHALL BE CLASS C APPROVED SUDAS MIX.

CONDUIT PENETRATIONS SHALL BE NEATLY CUT, AND SHALL BE GROUTED AND SEALED.

CONDUITS SHALL BE FITTED WITH END BELLS FOR CONDUCTOR INSULATION PROTECTION.

04 HAND HOLE DETAILS (HH-1)

SCALE: NONE

CLIENT PROJECT NO: _____ FOTH PROJECT NO: 23T001.07
DESIGNED BY: DJS CHECKED BY: CLG DRAWN BY: DJS
LETTING DATE: _____ CAD DATE: 2/11/2024 10:47:47 PM
CAD FILE: c:\pw_workdir\pw_le\fvd_clg\0709096\F0023T001.07_EE_Details.dgn

NO	DATE	BY	REVISION DESCRIPTION
1	2/9/2024	CLG	ADDENDUM 1

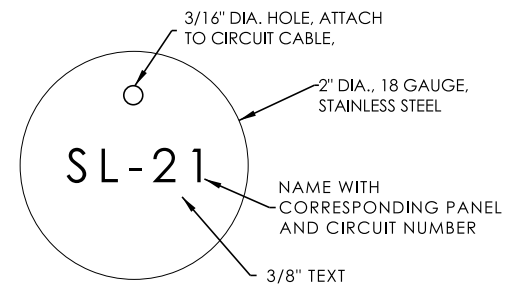


THE EASTERN IOWA AIRPORT
2024 PARKING LOT AND ROADWAY IMPROVEMENTS
CEDAR RAPIDS, IA

ELECTRICAL DETAILS

SHEET NO.

P.61



NOTES:

TAGS SHALL BE ATTACHED TO CONDUCTORS WITH NON-CONDUCTIVE CABLE STRAPS.

ALL EXCESS CONDUCTORS SHALL BE NEATLY WOUND AND BOUND WITHIN THE MANHOLE OR HANDHOLE STRUCTURE.

02 CABLE TAG DETAILS.
SCALE: NONE

REINFORCING BAR LIST					
MARK	SIZE	LOCATION	SHAPE	LENGTH	SPACING
5b1	5	BASE	—	6'-8"	12"
5b2	5	BASE	—	6'-8"	12"
* 6t1	6	TOP	—	6'-0"	6"
* 6t2	6	TOP	—	6'-0"	6"
5w1	5	WALLS	—	4'-8"	12"
5w2	5	WALLS	—	9'-8"	12"
5w3	5	WALLS	—	4'-8"	12"

* EPOXY COATED REINFORCING STEEL

NOTES:

AGGREGATE BASE (MODIFIED SUBBASE) SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY VALUE AS DETERMINED BY ASTM D1557 MODIFIED PROCTOR.

THE MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN.

CAST-IN-PLACE BASE SHOWN. IF BASE IS PRECAST INTEGRAL WITH WALLS, THE FOOTPRINT OF THE BASE IS NOT REQUIRED TO EXTEND BEYOND THE OUTER EDGE OF THE WALLS.

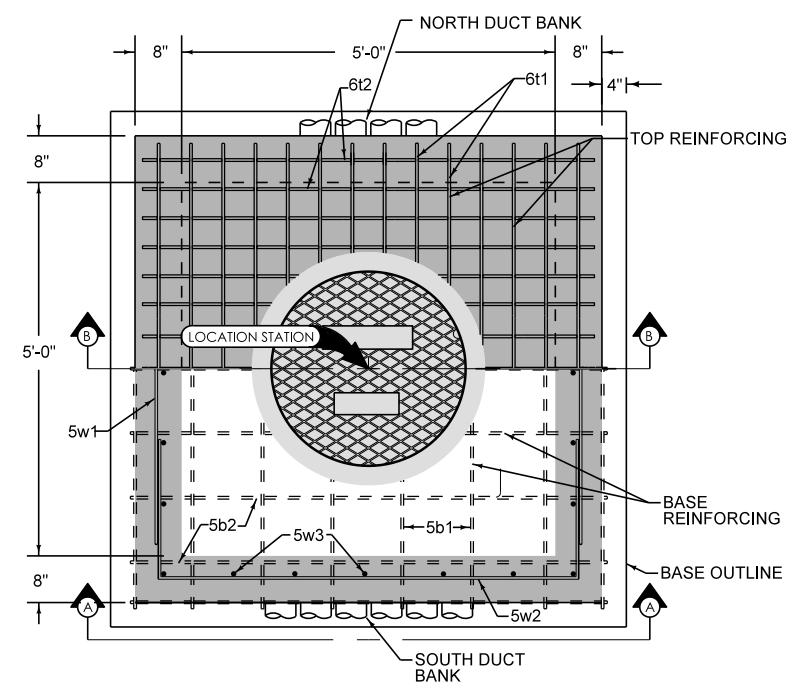
PROVIDE TWO #4 HOOP BARS AT MANHOLE OPENING AND AT ALL OPENINGS WITH EXCESS OF 12 INCH DIMENSION

PENETRATIONS SHALL BE SCHEDULE 40 CONDUIT SIZED AS INDICATED IN THE DUCT BANK SCHEDULE. CONDUIT SHALL EITHER HAVE EMBEDDED COUPLING, BELL END, OR SHALL EXTEND MINIMUM OF 2" OUTSIDE OF THE STRUCTURE WALLS. COORDINATE MATERIALS AND PLACEMENT WITH SITE ELECTRICIAN.

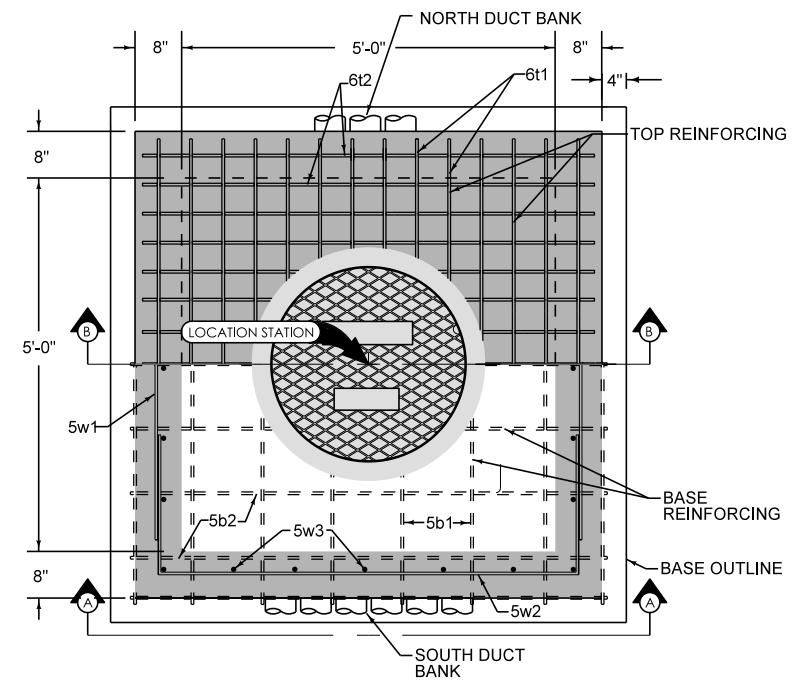
4 INCH CONDUIT PENETRATION SHALL BE CAST AT BASE OF STRUCTURE TO PROVIDE DRAINAGE.

STRUCTURE TOP MUST BE CAST IN-PLACE TO SURVEYED ELEVATIONS.

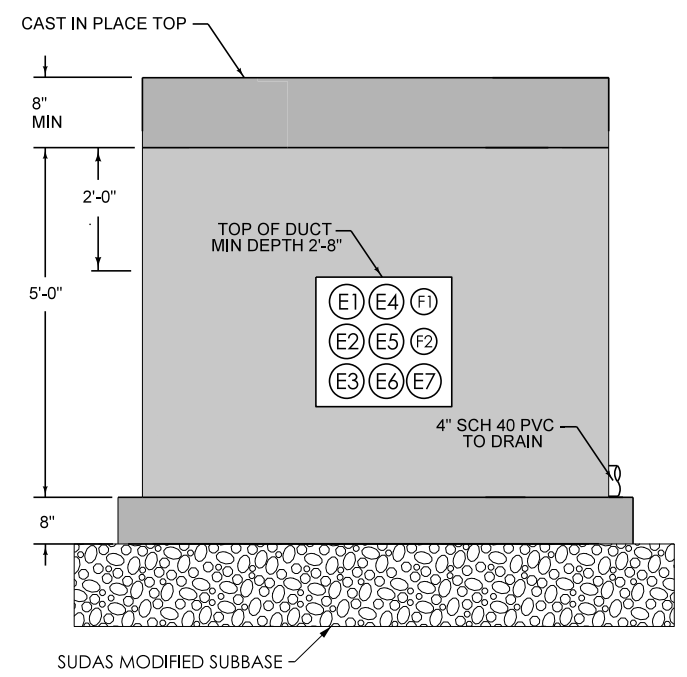
01 MH-1, MH-2 ELECTRICAL MANHOLE DETAILS
SCALE: NONE



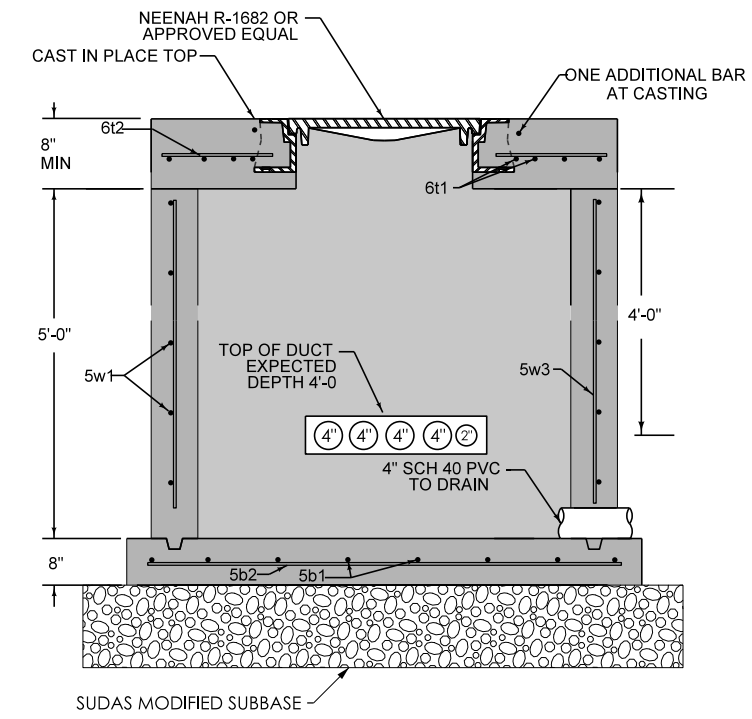
PLAN (MH-1)



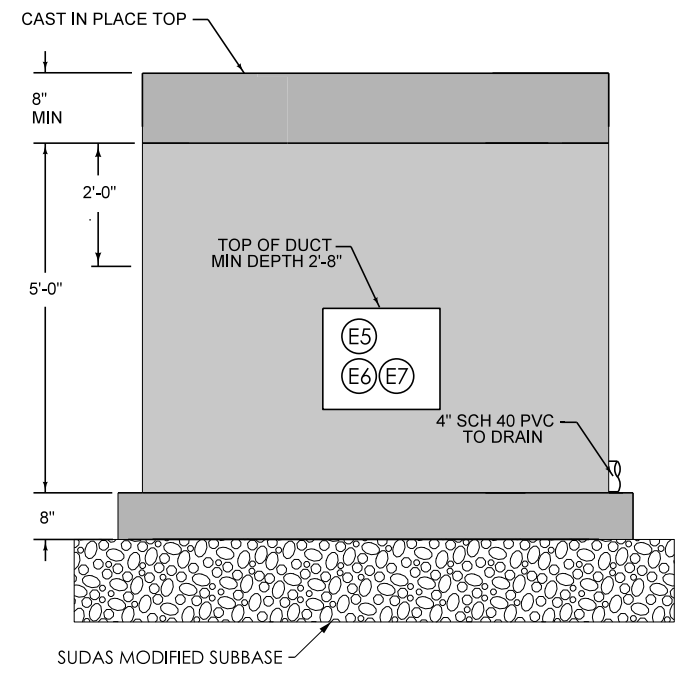
PLAN (MH-2)



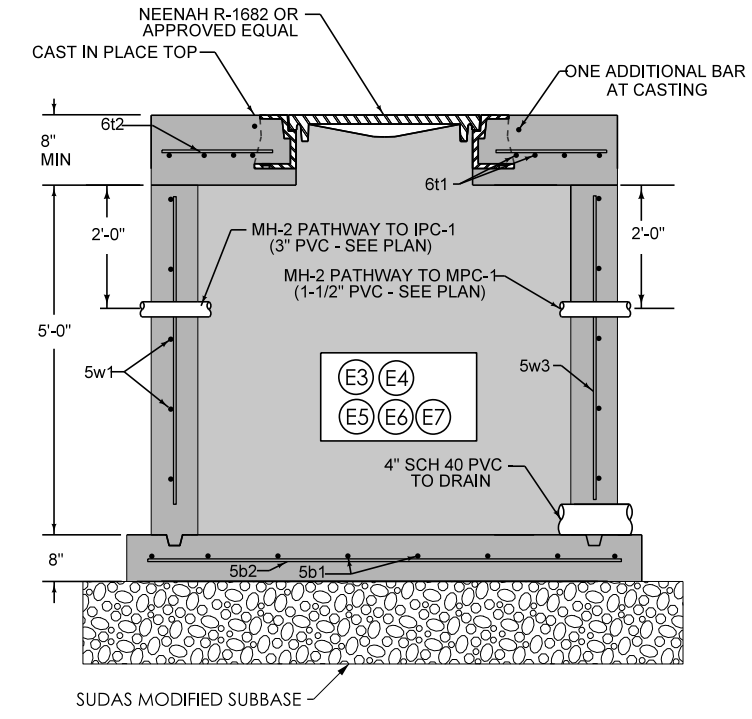
SECTION A-A (MH-1)



SECTION B-B (MH-1)



SECTION A-A (MH-2)



SECTION B-B (MH-2)

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CLIENT PROJECT NO:	FOTH PROJECT NO:	23T001.07
DESIGNED BY: DJS	CHECKED BY: CLG	DRAWN BY: DJS
LETTING DATE:	CAD DATE: 2/11/2024	10:36:44 PM
CAD FILE:	c:\pw_workdir\pw_le\lvd_clg\d0709096\F0023T001.07_EE_Details.dgn	

NO	DATE	BY	REVISION DESCRIPTION
1	2/9/2024	CLG	ADDENDUM 1



THE EASTERN IOWA AIRPORT
2024 PARKING LOT AND ROADWAY IMPROVEMENTS
CEDAR RAPIDS, IA

ELECTRICAL DETAILS
P.62

SHEET NO.