

October 24, 2022

To: Plan Holders for Improvements to the
Hannibal Regional Airport
Hannibal, Missouri
MoDOT Project No. 22-049A-1

Transmitted herewith is Addendum **No. 2, which will replace Addendum No. 1** to the Issued for Bid Contract Documents, Specifications and Plans dated September 29, 2022 for Improvements to the Hannibal Regional Airport

Schedule I: Terminal Renovations

Sincerely,

Jviation, a Woolpert Company

Derek Johnson, P.E.
Engineer Project Manager III

**ADDENDUM NO. 2
TO
CONTRACT DOCUMENTS, SPECIFICATIONS AND PLANS
FOR IMPROVEMENTS TO THE
HANINBAL REGIONAL AIRPORT
HANNIBAL, MISSOURI
MODOT PROJECT NO. 22-049A-1**

To All Bidders: This Addendum **No. 2** will replace Addendum **No. 1**. You are requested to make all changes and/or additions contained in this addendum to the Bidding Documents. Failure to acknowledge this Addendum in Proposal shall result in rejection of bid. Bidders are informed that the above referenced Contract Documents, Specifications and Plans are modified as follows as of October 24, 2022.

1. CONTRACT DOCUMENTS/SPECIFICATIONS

Contract Documents – SUMMARY OF APPROXIMATE QUANTITIES

Section: Section 1-2, Updated quantities.

Revision: Removed – Item P-403-A – Asphalt Mixture Surface Course – 10 Ton

Justification: Will be Performed by others

Revision: Changed – Item P-152a– Unclassified Excavation – 231 CY

Justification: Updated to 231 CY as required

Revision: Changed – Item D-701a– Install 18” Reinforced Concrete Pipe, Class V – 48 LF

Justification: Updated to 48 LF as required

Revision: Removed – Item ARCH-1a – Foundation Drain Waterproof Membrane and Drainage Panel – 600 SF

Justification: Architecture line items removed. This was accommodated for in D-705a

Revision: Removed – Item ARCH-1b – Expansion Joint Filler – 50 LF

Justification: Architecture Quantity line items removed. Still is part of the project scope which needs to be bid. Now part of Arch-1

Revision: Removed – Item ARCH-1c – 1” Fiberglass Insulation for Plumbing Line above Ceiling – 225 LF

Justification: *Justification: Architecture Quantity line items removed. Still is part of the project scope which needs to be bid. Now part of Arch-1*

Revision: Added Item Arch-1 – Internal Building Components LS-1

Justification: *All Individual Architecture line items removed from quantities. Now internal building components line replaces it as one single lump sum line item.*

Construction Joint Repair Approx. 50 ft & Reinsulating Water Line Approx. 225ft – V.I.F.
Still is part of the project scope which needs to be bid.

Revision: Added Schedule 1 Bid Form –

Justification: *Necessary for Bid*

Revision: Added Bid Form Summary –

Justification: *Necessary for Bid*

Specifications: TABLE OF CONTENTS

Section: Section 5-1 – Table of Contents Updated

Justification: *Updated as needed*

2. **PLANS**

G002 - (1 of 13) Removed Individual Architectural Quantities (still in project scope). Added Item Arch-1 – Internal Building Components LS-1 to be

Justification: *. All Individual Architecture line items removed from quantities. Now internal building components line replaces it as one single lump sum line item.*

(Construction Joint Repair and Reinsulating Water Line). Still is part of the project scope which needs to be bid.

G002 - (2 of 13) Removed all of P-403A from Quantities (Asphalt Mixture Surface Course).

Justification: . No longer required; will be placed by others.

G002 - (3 of 13) Updated P-152a from Quantities (Unclassified Excavation) to 231 CY

Justification: . Updated as required

G002 - (4 of 13) Updated D-701A from Quantities (Install 18" Reinforced Concrete Pipe Class V) to 48 LF

Justification: . Updated as required

G002 - (5 of 13) Updated Schedule 1 Earthwork Summary to 231 CY

Justification: . Updated as required

C100 - (6 of 13) Demolition Plan Updated (area called out by Roadway)

Justification: . Updated as required

C200 - (7 of 13) Foundation Drainage Plan Updated (area by Roadway , 48 Linear feet of 18" Pipe Updated)

Justification: . Updated as required

C210 - (8 of 13) Pipes Plan and Profile Updated (Culvert Profile and Plan Updated)

Justification: . Updated for best design

C221 - (9 of 13) Drainage Details Updated (Inlet Section AA and Inlet Section BB)

Justification: . Updated for best design

C300 - (10 of 13) Grading Plan East and West Updated (Area approaching Road)

Justification: . Updated for best design

C301 - (11 of 13) Grading Plan West and North (Area approaching Road and on opposite side of road updated)

Justification: . Updated for best design

C500 – (12 of 13) Erosion Control Plan East and West Updated (Area approaching Road and on opposite side of road updated)

Justification:.. Needed for updated grading plan

C501 – (13 of 13) Erosion Control Plan West and North Updated (Area approaching Road and on opposite side of road updated)

Justification:.. Needed for updated grading plan

3. Additions

There is an approved alternate BOD for the cold fluid applied waterproofing: Carlisle CCW-570 Waterproofing System attached.

**** END OF ADDENDUM NO. 2 ****

REQUEST FOR BIDS/INVITATION FOR BIDS

Hannibal Regional Airport Hannibal, MO State Block Grant Project No. 22-049A-1

Sealed bids will be received until 2:00 p.m., Thursday, October 27, 2022, and then publicly opened and read by the City of Hannibal at City of Hannibal, Council Chambers, 320 Broadway, Hannibal, MO 63401, for furnishing all labor, materials and equipment and performing all work necessary to

Schedule I - Terminal Renovation

Contract Documents. The complete set of Specifications and Contract Documents can be downloaded from Jviation, Inc.'s bid site (<http://bid.jviation.com>), beginning on Thursday, August 25, 2022. In order to submit a responsive bid as a Prime Contractor and to receive all necessary addendum(s) for this project, you must be on the Planholder's List. To view all planholder documents (contract documents, plans and addendums) you must fill out the online form located at (<https://jviation.com/bid-request>). By filling out and submitting this form, you agree to be publicly listed on the bid site with your contact information as a planholder for all projects requested. **It is the planholder's responsibility to review the site for addendums and changes before submitting their proposal. This includes review for environmental changes. Environmental changes during construction could take up to four weeks for approval.** For additional information, please contact us via email at bidinfo@Woolpert.com. or Kevin Costello at Kevin.Costello@woolpert.com

*Note that contractors will NOT be automatically added to new projects. You will need to re-submit the online form for access to new projects. Once granted access, additional projects will use your same login credentials. **Note:** Plan ahead when submitting the online request form and allow up to 2 business days for approval and access to projects.

Pre-Bid Conference. The pre-bid conference for this project will be held on Tuesday, October 18, 2022 at 2:00 p.m., at Airport Conference Rom. All bidders are required to examine the site to become familiar with all site conditions.

Bid Conditions. The bidder is required to provide all information as required within the Contract Documents. The bidder is required to bid on all items of every schedule or as otherwise detailed in the Instructions to Bidders.

Each proposal must be accompanied by a bid guaranty in the amount of five (5) percent of the total amount of the bid. The bid guaranty may be by certified check or bid bond made payable to City of Hannibal.

Bids may be held by City of Hannibal for a period not to exceed 90 calendar days from the date of the bid opening for the purpose of evaluating bids prior to award of contract.

The right is reserved, as City of Hannibal may require, to reject any and all bids and to waive any informality in the bids received.

Construction for this project is expected to take 35 calendar day(s).

In accordance with the Davis-Bacon Act, and the Missouri Prevailing Wage Law, the Contractor will be required to comply with the wage and labor requirements and to pay minimum wages in accordance with the schedule of wage rates established by the United States Department of Labor and the Missouri Division of Labor Standards, respectively. The highest rate between the two (Federal and State) for each job classification shall be considered the prevailing wage.

Equal Employment Opportunity and Affirmative Action Requirement. The proposed contract is under and subject to 41 CFR Part 60-4 and Executive Order 11246 of September 24, 1965, as amended, and to the equal opportunity clause and the Standard Federal Equal Employment Opportunity Construction Contract specifications including the goals and timetables for minority and female participation.

Title VI Solicitation Notice: The City of Hannibal, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

DBE Requirement. Information submitted as a matter of bidder responsibility:

The Owner's award of this contract is conditioned upon Bidder or Offeror satisfying the good faith effort requirements of 49 CFR §26.53.

The successful Bidder or Offeror must provide written confirmation of participation from each of the DBE firms the Bidder or Offeror lists in its commitment within five days after bid opening.

- 1) The names and addresses of Disadvantaged Business Enterprise (DBE) firms that will participate in the contract;
- 2) A description of the work that each DBE firm will perform;
- 3) The dollar amount of the participation of each DBE firm listed under (1)
- 4) Written statement from Bidder or Offeror that attests their commitment to use the DBE firm(s) listed under (1) to meet the Owner's project goal; and
- 5) If Bidder or Offeror cannot meet the advertised project DBE goal, evidence of good faith efforts undertaken by the Bidder or Offeror as described in appendix A to 49 CFR part 26.

Award of contract is also subject to the following Federal provisions:

- Affirmative Action to Ensure Equal Employment Opportunity
- Buy American Preference
- Civil Rights – Title VI Assurances
- Davis Bacon Act
- Disadvantaged Business Enterprise
- Government wide Debarment and Suspension
- Foreign Trade Restriction
- Lobbying Federal Employees
- Recovered Materials
- Other Federal Provisions included in Part A of the Special Provisions

BID DOCUMENTS & TECHNICAL SPECIFICATIONS

TABLE OF CONTENTS

92		
93	<u>SECTION 1</u>	
94	Notice to Bidders.....	1-1
95		
96	<u>SECTION 2</u>	
97	Instructions to Bidders.....	2-1
98		
99	<u>SECTION 3</u>	
100	General Provisions (FAA).....	3-1
101	Section 10 – Definition of Terms.....	3-3
102	Section 20 – Proposal Requirements and Conditions.....	3-9
103	Section 30 – Award and Execution of Contract.....	3-13
104	Section 40 – Scope of Work.....	3-15
105	Section 50 – Control of Work.....	3-19
106	Section 60 – Control of Materials.....	3-25
107	Section 70 – Legal Regulations and Responsibility to Public	3-29
108	Section 80 – Execution and Progress	3-35
109	Section 90 – Measurement and Payment	3-41
110	General Construction Items (FAA)	
111	Item C-100 – Contractor Quality Control Program (CQCP).....	3-49
112	Item C-102 – Temporary Air and Water Pollution, Soil Erosion, and Siltation Control.....	3-57
113	Item C-105 – Mobilization	3-61
114		
115	<u>SECTION 4</u>	
116	Supplementary Provisions	4-1
117	Part A – Federal and State Provisions	4-1
118	Part B – DBE Administration.....	4-29
119	Part C – Local Provisions	4-35
120	Part D – Federal and State Wage Rates	4-43
121		
122	<u>SECTION 5</u>	
123	Technical Specifications	5-1
124		
125	<u>APPENDIX</u>	
126	Advisory Circulars	APP-A
127	Construction and Phasing Plan (CSPP)	APP-B
128		
129		
130	<u>PROPOSAL/FORMS</u>	
131	Proposal Form.....	B-1
132	Performance Bond.....	B-26
133	Payment Bond	B-30
134	Contract Agreement	B-34
135		

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SECTION 1

NOTICE TO BIDDERS

Hannibal Regional Airport
Hannibal, MO
State Block Grant Project No. 22-049A-1

Sealed bids subject to the conditions and provisions presented herein will be received until 2:00 p.m., Thursday, October 27, 2022, and then publicly opened and read at City of Hannibal, Council Chambers, 320 Broadway, Hannibal, MO 63401, for furnishing all labor, materials, equipment and performing all work necessary to

Schedule I - Terminal Renovation

Contract Documents. The complete set of Specifications and Contract Documents can be downloaded from Jviation, Inc.'s bid site (<http://bid.jviation.com>), beginning on Thursday, August 25, 2022. In order to submit a responsive bid as a Prime Contractor and to receive all necessary addendum(s) for this project, you must be on the Planholder's List. To view all planholder documents (contract documents, plans and addendums) you must fill out the online form located at (<https://jviation.com/bid-request>). By filling out and submitting this form, you agree to be publicly listed on the bid site with your contact information as a planholder for all projects requested. **It is the planholder's responsibility to review the site for addendums and changes before submitting their proposal. This includes review for environmental changes. Environmental changes during construction could take up to four weeks for approval.** For additional information, please contact us via email at bidinfo@Woolpert.com or Kevin Costello at Kevin.Costello@woolpert.com.

*Note that contractors will NOT be automatically added to new projects. You will need to re-submit the online form for access to new projects. Once granted access, additional projects will use your same login credentials. **Note:** Plan ahead when submitting the online request form and allow up to 2 business days for approval and access to projects.

Pre-Bid Conference. The pre-bid conference for this project will be held on Tuesday,, October 18, 2022 at 2:00 p.m., at Airport Conference Rom. All bidders are required to examine the site to become familiar with all site conditions.

Contract Work Items. This project will involve the following work items and estimated quantities. Prospective bidders are hereby advised that the quantities indicated herein are approximate and are subject to change.

SUMMARY OF APPROXIMATE QUANTITIES			
Item No.	Item Description	Unit	Schedule I
C-102a	Install Temporary Silt Fence	LF	500
C-102b	Install Erosion Control Blanket	SY	30
C-102c	Install Inlet Protection	EA	3
C-105a	Mobilization	LS	1
C-101a	Asphalt Pavement Removal Full Depth	SY	25
P-152a	Unclassified Excavation	CY	231
P-610a	Install Concrete Pan	LF	80
P-610b	Remove and Replace Sidewalk	SY	4
D-701a	Install 18" Reinforced Concrete Pipe, Class V	LF	48
D-701b	Install 18" Flared End Section (FES)	EA	2
D-701c	Install 6" PVC Pipe Including all Bends and Reducers	LF	20
D-701d	Install 8" PVC Pipe Including all Bends and Reducers	LF	85
D-705a	Install 6-Inch Perforated Polyethylene Pipe	LF	275
D-751a	Install 6-Inch Underdrain Cleanout	EA	1
D-751c	Install Double Inlet	EA	1
T-901a	Seeding with Hydromulch	AC	.25

Arch-1	Internal Building Components	LS	1
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Provide a Single Lump Sum Line Item for work inside the building:

Construction Joint Repair Approx. 50 ft & Reinsulating Water Line Approx. 225ft – V.I.F.

Contract Time. The owner has established a contract perform time of 35 calendar day(s) from the date of the Notice-to-Proceed. All project work shall be substantially completed within the stated timeframe. This project is subject to liquidated damages as prescribed in the project manual.

Bid Security. No bid will be considered unless accompanied by a certified check or cashier's check on any bank or trust company insured by the Federal Deposit Insurance Corporation, payable to the Owner, for not less than five (5) percent of the total amount of the bid, or by a bid bond secured by an approved surety or sureties, payable to the City of Hannibal, for not less than five (5) percent of the total amount of the bid.

Bonding Requirements. The successful bidder will be required to furnish separate performance and payment bonds each in an amount equal to 100% of the contract price at the time of contract execution.

Award of Contract. The Owner intends to award a contract resulting from this solicitation to the lowest, responsive, responsible bidder, whose offer, conforming to the solicitation, will be most advantageous to, and in the best interest of, the Owner, cost or price and other factors considered.

- a. In addition to other factors, bid offers will be evaluated on the basis of advantages and disadvantages to the Owner that might result from offers received.
- b. The Owner reserves the right to reject any or all proposals and to waive informalities and/or irregularities in the bid offer. Bids may be held by the owner for a period not to exceed 90 calendar days from the date of the bid opening for the purpose of conducting the bid evaluation.
- c. Total bid will be evaluated and awarded as follows: It is the Owner's intent to award this bid based on the **TOTAL BASE BID FOR ALL ITEMS, split awards will not be made.**

d. The Owner will determine which Schedules and/or Bid Alternates will be awarded based on the received bid prices and available funding. The project award will be based on the low bid sum of the Schedules and Bid Alternates awarded by the Owner. Not all Schedules and/or Bid Alternates may be awarded. A combination of Schedules and Bid Alternates may be awarded, including only a single Schedule. The numbering of the Schedules or Bid Alternates does not necessarily indicate the order of award.

e. The project award is contingent on the availability of funding.

Federal Provision. This project is subject to the following Federal provisions, statutes and regulations;

Equal Employment Opportunity - Executive Order 11246 and 41 CFR Part 60: The Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth within the supplementary provisions. The successful Bidder shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Contractor will take affirmative action to ensure the applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin.

Notice of Requirement for Affirmative Action to Ensure Equal Employment Opportunity:

1. The Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth within the supplementary provisions.
2. The goals and timetables for minority and female participation, expressed in percentage terms for the contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

Timetables

Goals for minority participation for each trade: 3.1 %

Goals for female participation in each trade: 6.9%.

These goals are applicable to all of the contractor's construction work (whether or not it is Federal or federally-assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor is also subject to the goals for both its federally involved and non-federally involved construction.

3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs (OFCCP) within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address, and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

As used in this notice and in the contract resulting from this solicitation, the "covered area" is City of Hannibal, Marion, and state of Missouri.

Disadvantaged Business Enterprise – 49 CFR Part 26: The requirements of 49 CFR Part 26, Regulations of the U.S. Department of Transportation, apply to this contract. It is the policy of MoDOT and the **City of Hannibal** to practice nondiscrimination based on race, color, sex or national origin in the award or performance of this contract. All firms qualifying under this solicitation are encouraged to submit bids/proposals regardless of their business size or ownership. Awards of this contract will be conditioned upon satisfying the requirements of this section. These requirements apply to all bidders, including those who qualify as a DBE. The owner's award of this contract is condition upon the bidder satisfying the good faith

effort requirements of 49 CFR §26.53. A DBE contract goal of **0% (DBE)**percent has been established for this contract. The non-DBE bidder shall subcontract **(DBE)**percent of the dollar value of the base bid(s), excluding any additive alternates, to disadvantaged business enterprises (DBE) or make good faith efforts to meet the DBE contract goal. The bidder and any subcontractor who qualifies as a DBE who subcontracts work to another non-DBE firm must subtract the amount of the non-DBE contract from the total DBE work counted toward the goal, as defined in 49 CFR Part 26.55.

The apparent successful competitor will be required to submit the following information as a condition of bid responsiveness: (1) the names and addresses of DBE firms that will participate in the contract; (2) a description of the work that each DBE firm will perform; (3) the dollar amount of the participation of each DBE firm participating; (4) written statement from bidder that attests their commitment to use the DBE firm(s) listed under (1) above to meet the owner's project goal; and (5) if the contract goal is not met, evidence of good faith efforts undertaken by the bidder, as described in Appendix A to 49 CFR Part 26.

The apparent successful competitor must provide written confirmation of participation from each of the DBE firms listed in their commitment with the proposal documents as a condition of bid responsiveness.

Davis-Bacon Act, as amended – 29 CFR Part 5: The Contractor is required to comply with wage and labor provisions and to pay minimum wages in accordance with the current schedule of wage rates established by the United States Department of Labor included in the supplementary provisions.

In addition, the contractor will also be required to comply with the wage and labor requirements and pay minimum wages in accordance with the schedule of wage rates established by the Missouri Division of Labor Standards included in the Supplementary Provisions.

The highest rate between the two (Federal and State) for each job classification shall be considered the prevailing wage.

Debarment, Suspension, Ineligibility and Voluntary Exclusion – Title 2 CFR Part 180 (Subpart C) Title 2, CFR Part 1200: The bidder certifies, by submission of a proposal or acceptance of a contract, that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

Foreign Trade Restriction – 49 CFR Part 30: By submission of an offer, the Offeror certifies that with respect to this solicitation and any resultant contract, the Offeror--

- a. is not owned or controlled by one or more citizens of a foreign country included in the list of countries that discriminate against U.S. firms published by the Office of the United States Trade Representative (USTR);
- b. has not knowingly entered into any contract or subcontract for this project with a person that is a citizen or national of a foreign country included on the list of countries that discriminate against U.S. firms as published by the USTR; and
- c. has not entered into any subcontract for any product to be used on the Federal project that is produced in a foreign country included on the list of countries that discriminate against U.S. firms published by the USTR.

Buy American Certificate – Aviation Safety and Capacity Act of 1990: This contract is subject to the "Buy American Preferences" of the Aviation Safety and Capacity Act of 1990. Prospective Bidders are required to certify that steel and manufactured products have been produced in the United States and to clearly identify those items produced or manufactured outside of the United States.

Additional Provisions: Modification to the project documents may only be made by written addendum by the Owner or Owner's authorized Representative.

313
314 The proposal must be made on the forms provided within the bound project manual. Bidders must supply all
315 required information prior to the time of bid opening.
316
317 Additional Federal provisions can be found in Section 4 of this document.

SCHEDULE I						
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
C-102a	Install Temporary Silt Fence	at the unit price of: _____ dollars and _____ cents.	LS	500	\$	\$
C-102b	Install Erosion Control Blanket	at the unit price of: _____ dollars and _____ cents.	SY	30	\$	\$
C-102c	Install Inlet Protection	at the unit price of: _____ dollars and _____ cents.	EA	3	\$	\$
C-105a	Mobilization	at the unit price of: _____ dollars and _____ cents.	LS	1	\$	\$
C-101a	Asphalt Pavement Removal Full Depth	at the unit price of: _____ dollars and _____ cents.	SY	25	\$	\$
P-152a	Unclassified Excavation	at the unit price of: _____ dollars and _____ cents.	CY	231	\$	\$
P-610a	Install Concrete Pan	at the unit price of: _____ dollars and _____ cents.	LF	80	\$	\$
P-610b	Remove and Replace Sidewalk	at the unit price of: _____ dollars and _____ cents.	SY	4	\$	\$
D-701a	Install 18" Reinforced Concrete Pipe, Class V	at the unit price of: _____ dollars and _____ cents.	LF	48	\$	\$
D-701b	Installed 18" Flared End Section (FES)	at the unit price of: _____ dollars and _____ cents.	EA	2	\$	\$
D-701c	Install 6" PVC Including all Bends and Reducers	at the unit price of: _____ dollars and _____ cents.	LF	20	\$	\$
D-701d	Install 8" PVC Including all Bends and Reducers	at the unit price of: _____ dollars and _____ cents.	LF	85	\$	\$
D-705a	Install 6-Inch Perforated Polyethylene Pipe	at the unit price of: _____ dollars and _____ cents.	LF	275	\$	\$
D-751a	Install 6-Inch Underdrain Cleanout	at the unit price of: _____ dollars and _____ cents.	EA	1	\$	\$
D-751c	Install 2X2 Inlet	at the unit price of: _____ dollars and _____ cents.	EA	1	\$	\$
T-901a	Seeding with Hydromulch	at the unit price of: _____ dollars and _____ cents.	AC	0.25	\$	\$
ARCH-1	Internal Building Components	at the unit price of: _____ dollars and _____ cents.	LS	1	\$	\$

SCHEDULE I TOTAL \$ _____



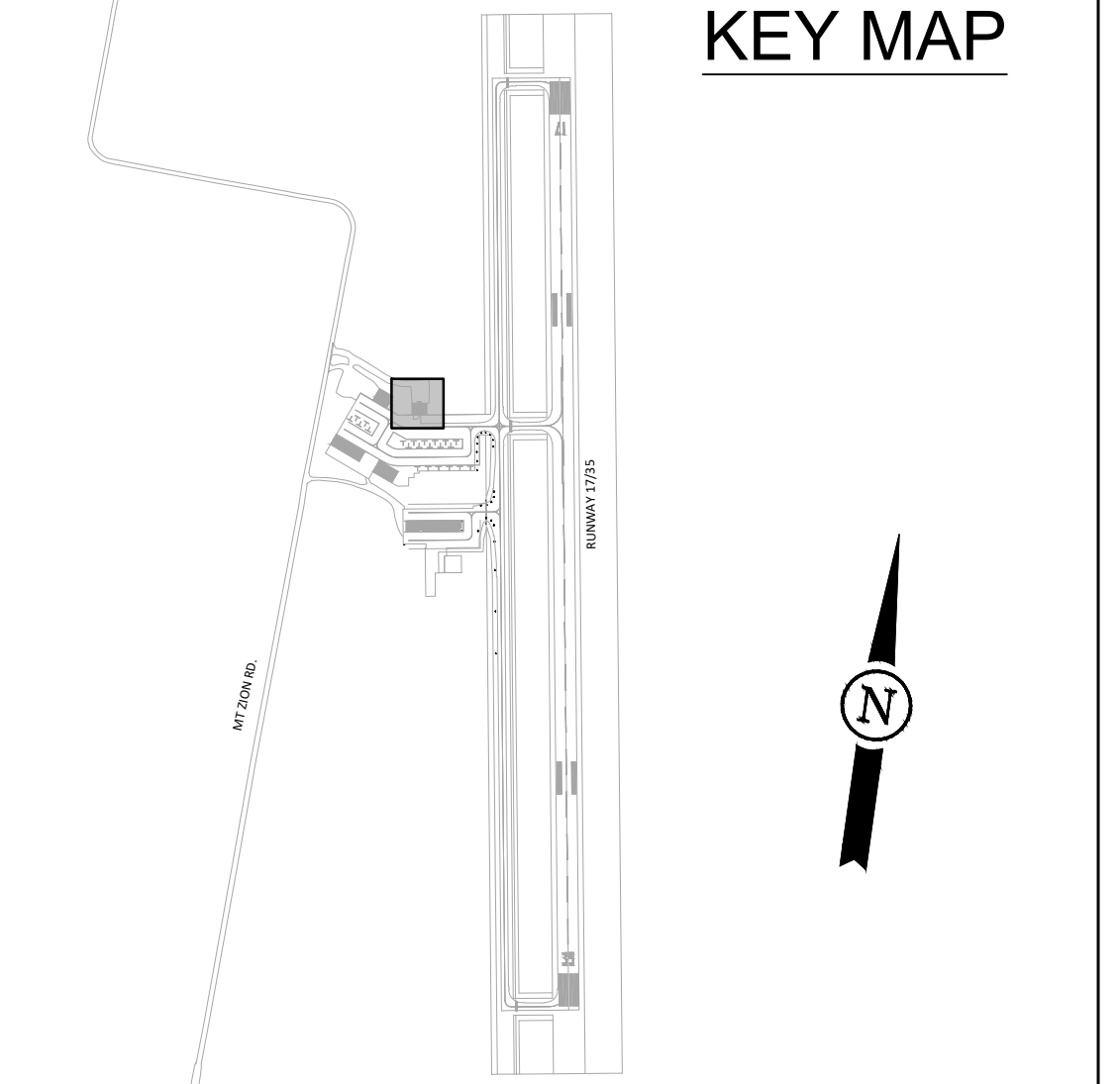
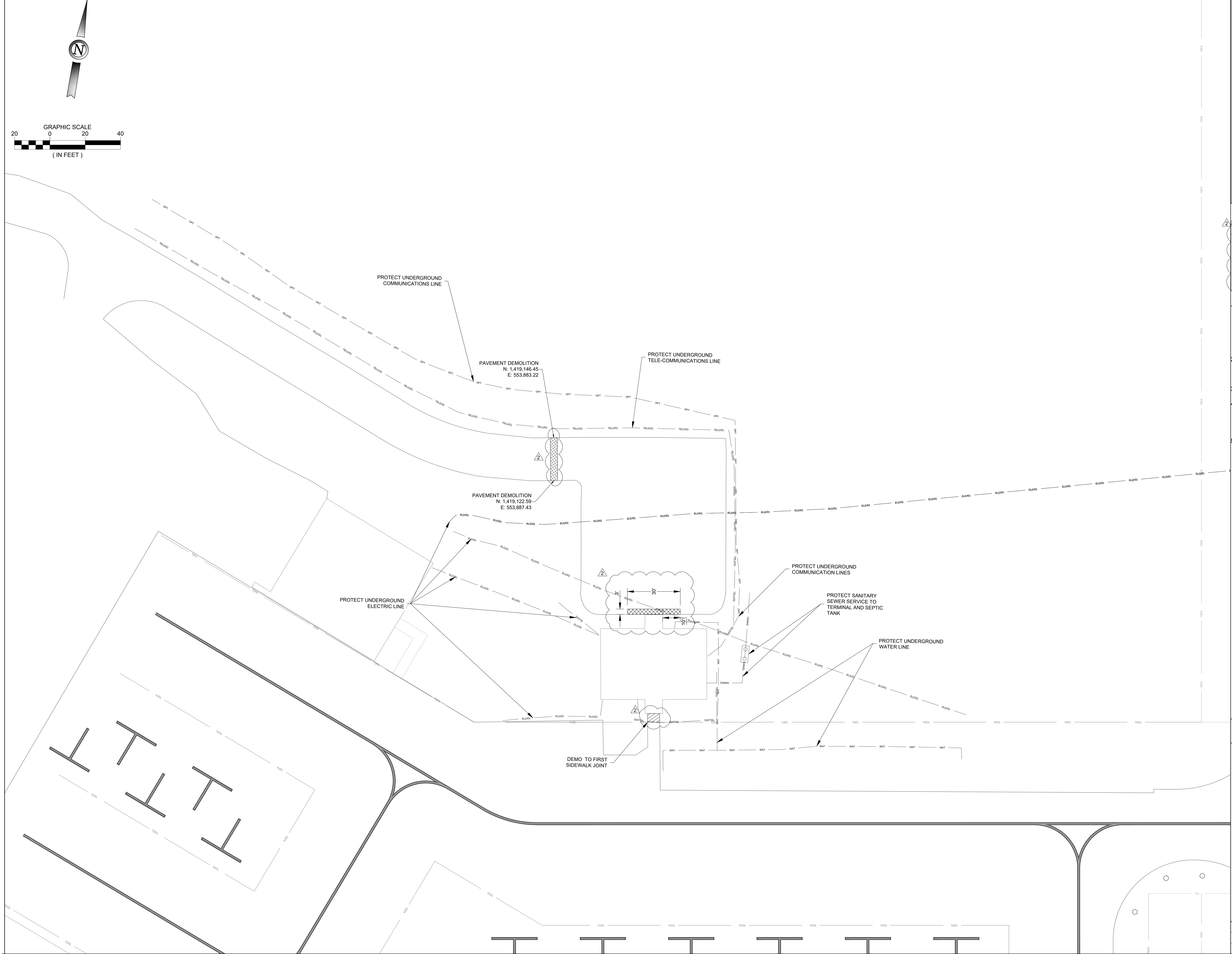
BID PROPOSAL SUMMARY

Bidder Name:

Base Bid Schedule I – Terminal Building Renovations : \$ _____

TOTAL BASE BID : \$ _____

<div>JVIATION®</div> <div>A WOOLPERT COMPANY</div>	<div><div><div>CITY OF HANNIBAL MISSOURI</div><div>HOME OF MARK TWAIN</div></div><div><div>City of</div><div>Hannibal, MO</div></div></div>	DES: D.R.J.	ISSUE RECORD				HAE TERMINAL RENOVATION	INDEX OF DRAWINGS AND SUMMARY OF QUANTITIES		SHEET NAME G002
		DR: F.Z.D.	NO.	BY	DATE	DESCRIPTION				SHEET NO. 2 of 16
		CH: C.L.G.	1	M.J.L.	10/03/2022	ISSUED FOR BID				
		APP: D.R.J.	2	M.J.L.	10/24/2022	ADDENDUM NO. 1				



DEMOLITION LEGEND

- FULL DEPTH ASPHALT REMOVAL
- SIDEWALK FULL DEPTH REMOVAL

- DEMOLITION/EXISTING UTILITY NOTES**
- ANY PAVEMENT DAMAGED DURING REMOVAL OUTSIDE THE PROPOSED REMOVAL LIMITS SHALL BE SQUARED OFF, BY SAW CUTTING, TO THE SATISFACTION OF THE ENGINEER. ALL COSTS ASSOCIATED WITH THE ADDITIONAL REMOVAL AND RECONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - CONTRACTOR SHALL PROTECT ALL AIRFIELD ELECTRICAL AND LIGHT SYSTEMS AND ANY OTHER UTILITY DURING CONSTRUCTION.
 - CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
 - CONTRACTOR SHALL PROTECT ALL UNDERGROUND AND OVERHEAD UTILITIES AT ALL TIMES UNLESS OTHERWISE NOTED. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION.
 - PAVEMENT REMOVAL FOR CULVERT ACROSS ACCESS ROAD AND FOUNDATION TRENCH ACROSS THE PARKING LOT WILL BE SAW CUT TO NEAT LINES FOR REQUIRED WIDTH OF TRENCH.

ISSUED FOR BID

CIVL NAME	CIVL #	CIVL DATE
DISCIPLINE (IF NECESSARY)		
FOR AND ON BEHALF OF JVIATION , INC.		

A WOOLPERT COMPANY

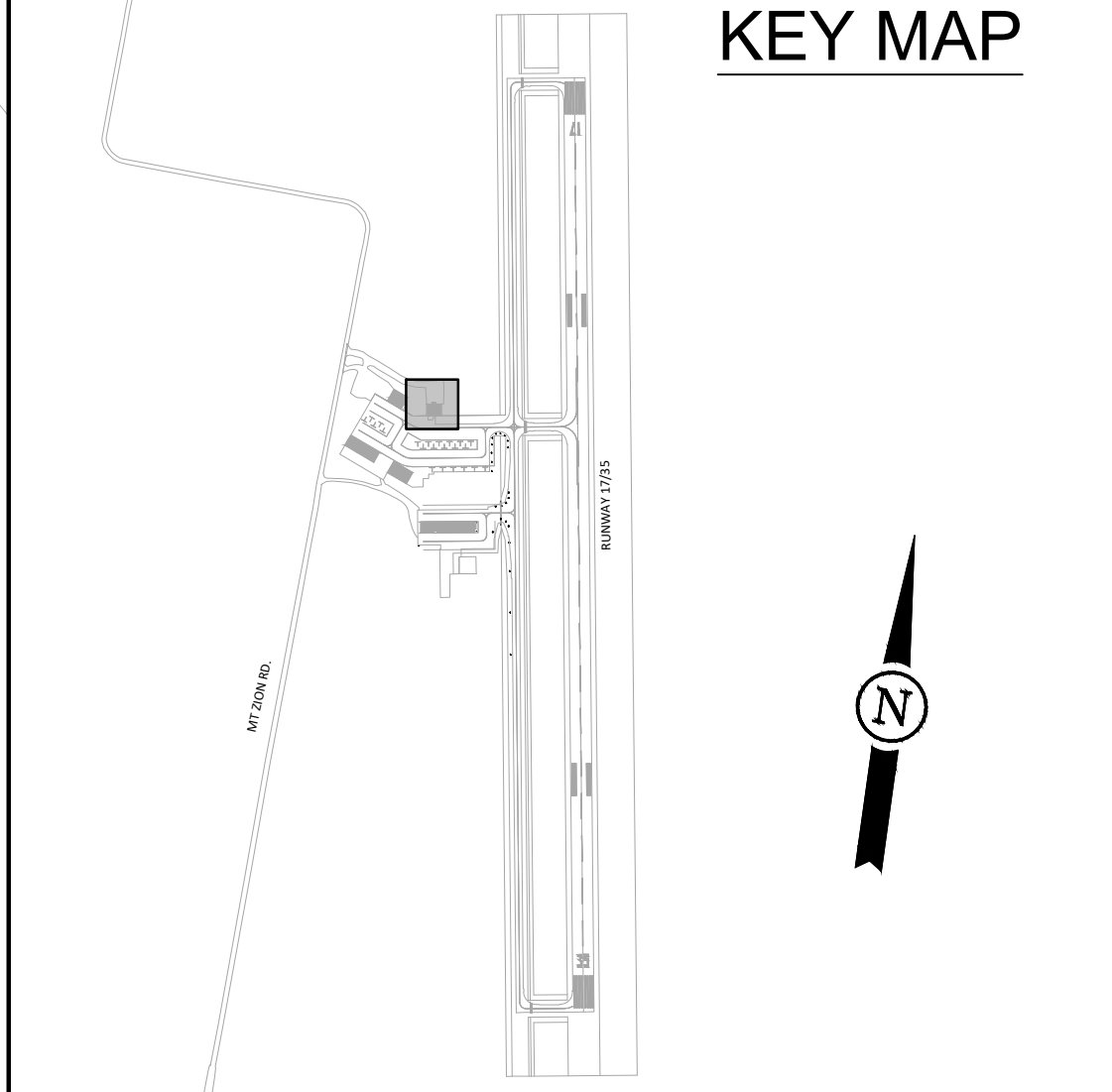
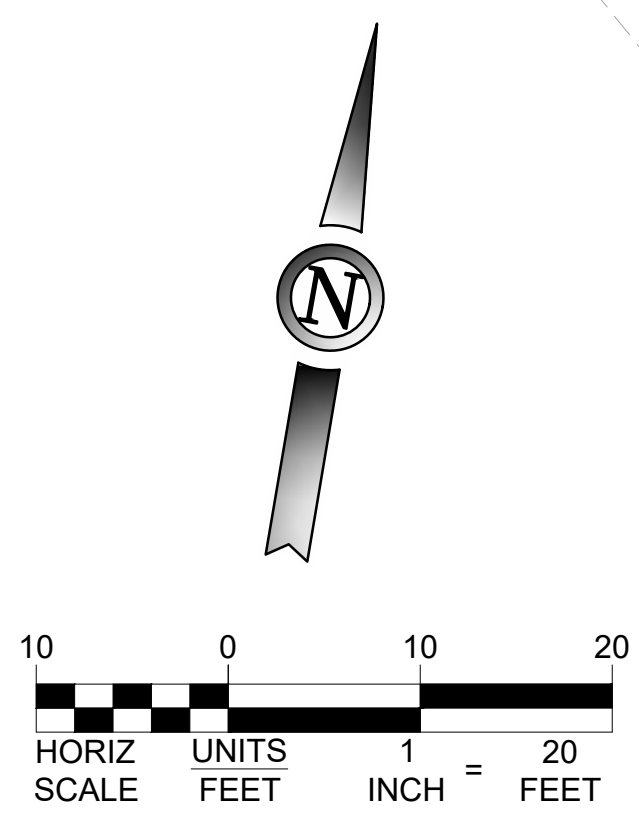
City of Hannibal, MO

DES: D.R.J.	ISSUE RECORD			
DR: F.Z.D.	NO.	BY	DATE	DESCRIPTION
CH: C.L.G.	1	M.J.L.	10/03/2022	ISSUED FOR BID
APP: D.R.J.	2	M.J.L.	10/24/2022	ADDENDUM NO. 1

HAE TERMINAL RENOVATION

DEMOLITION PLAN AND EXISTING UTILITIES	
AIP PROJ. NO. 22-049A-1	JVIATION PROJ. NO. 2022.HAE.01

SHEET NAME C100
SHEET NO. 8 of 16



STORM LEGEND	
---	EXISTING MAJOR CONTOUR
---	EXISTING MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR
---	STORM PIPE
C	STORM INLET
---	FOUNDATION DRAINAGE PIPE (PERFORATED UNDERDRAIN)
DS	DOWNSPOUT

PLAN NOTES

- SEE SHEETS C220 AND C221 FOR DRAINAGE CONSTRUCTION DETAILS.

ISSUED FOR BID

CIVL NAME	CIVL #	CIVL DATE
DISCIPLINE (IF NECESSARY)		
FOR AND ON BEHALF OF JVIATION , INC.		

JVIATION[®]
A WOOLPERT COMPANY



DES: D.R.J.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: F.Z.D.	1	M.J.L.	10/03/2022	ISSUED FOR BID
CH: C.L.G.	2	M.J.L.	10/24/2022	ADDENDUM NO. 1
APP: D.R.J.				

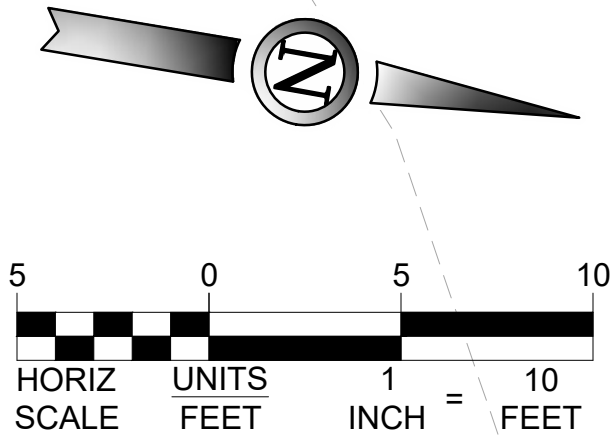
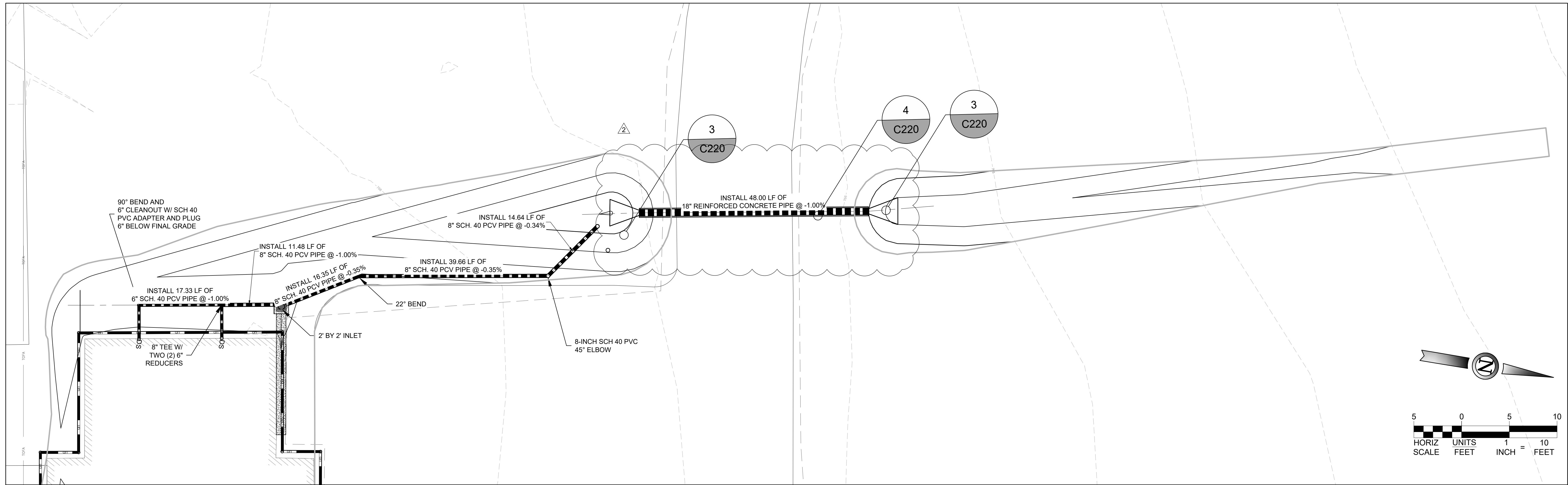
HAE TERMINAL RENOVATION

FOUNDATION DRAINAGE PLAN
PROPOSED DRAINAGE




AIP PROJ. NO.
22-049A-1

JVIATION PROJ. NO.
2022.HAE.01

SHEET NAME
C200
SHEET NO.
9 of 16

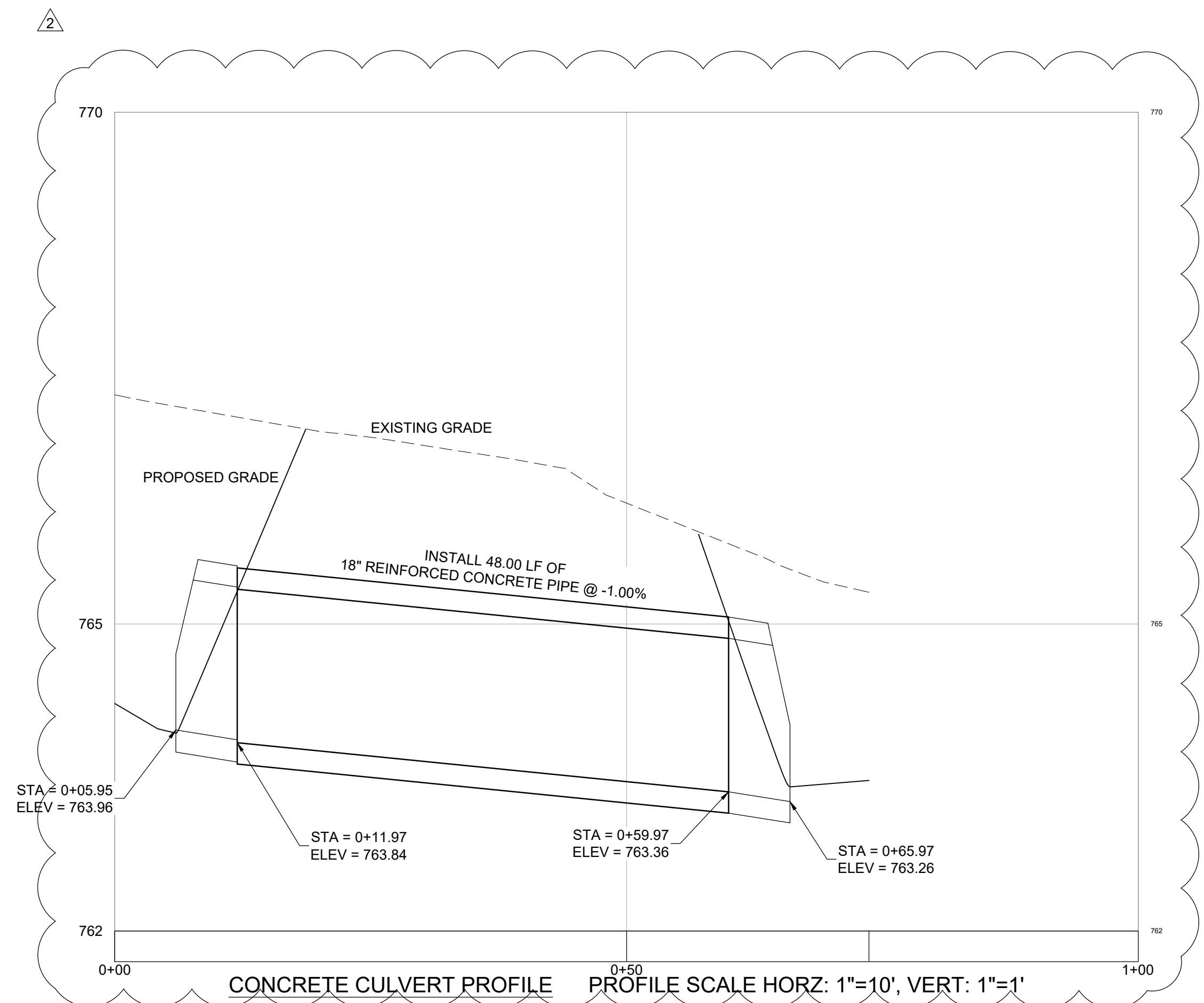
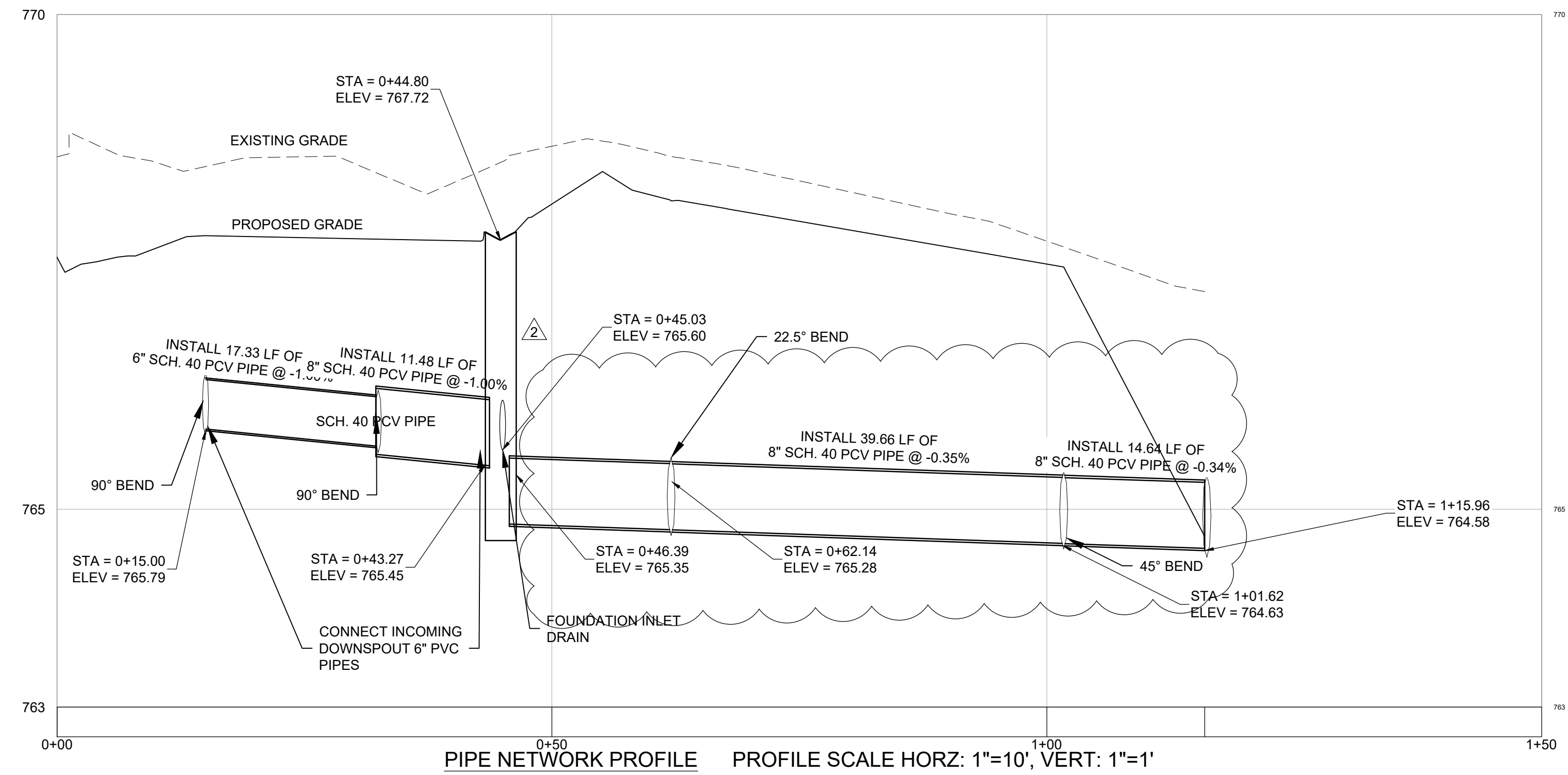


STORM LEGEND

- | | |
|---|---|
| -----1220----- | EXISTING MAJOR CONTOUR |
| -----1221----- | EXISTING MINOR CONTOUR |
| =====1220===== | PROPOSED MAJOR CONTOUR |
| =====1221===== | PROPOSED MINOR CONTOUR |
|  | STORM PIPE |
|  | STORM INLET |
|  | FOUNDATION DRAINAGE PIPE
(PERFORATED UNDERDRAIN) |

PROFILE LEGEND

-
- Diagram illustrating the profile band and elevation data:
- PROPOSED GRADE
 - EXISTING GROUND
 - PROFILE BAND
 - EXISTING ELEVATION
 - PROPOSED ELEVATION
- The diagram shows a cross-section of a road profile. A solid line represents the proposed grade, and a dashed line represents the existing ground. A rectangular profile band is shown with a height of 230.50. The existing elevation is 230.47, and the proposed elevation is 230.50.



ISSUED FOR BID

CIVL NAME	CIVL #	CIVL DATE
DISCIPLINE (IF NECESSARY)		
FOR AND ON BEHALF OF JVIATION , INC.		

SHEET NAME	C210
SHEET NO.	10 of 16



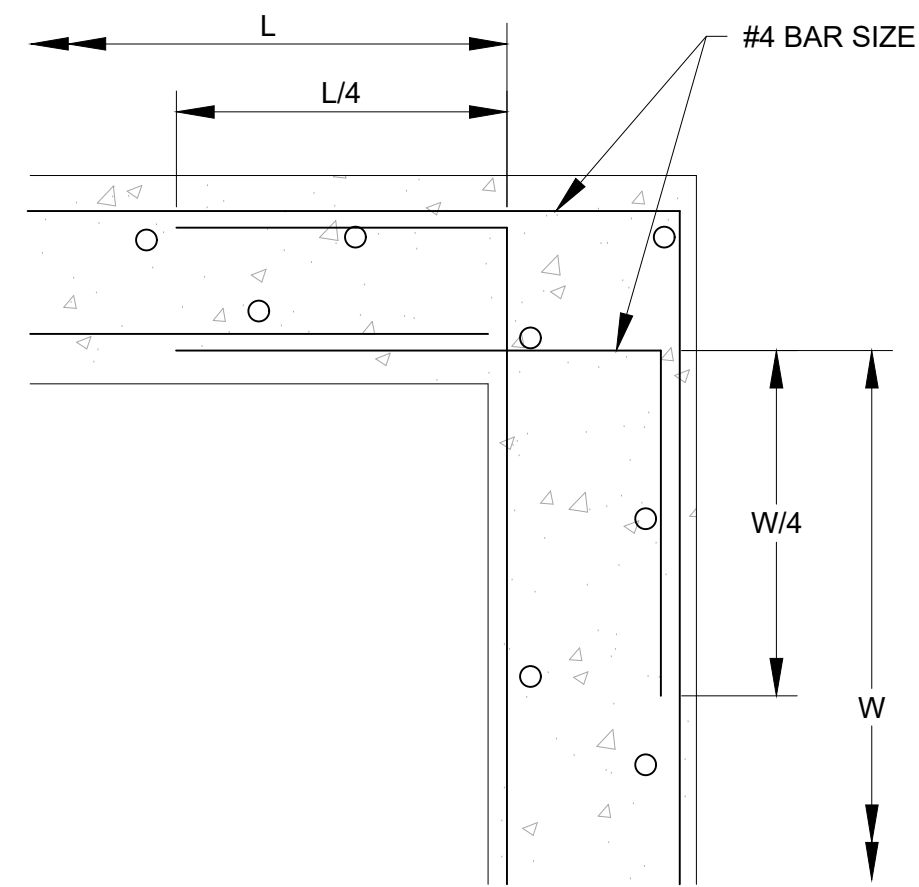
DES: D.R.J.	ISSUE RECORD			
DR: F.Z.D.	NO.	BY	DATE	DESCRIPTION
CH: C.L.G.	1	M.J.L.	10/03/2022	ISSUED FOR BID
	2	M.J.L.	10/24/2022	ADDENDUM NO. 1
FILE C240				
APP: D.R.J.				
10/16				

HAE TERMINAL RENOVATION

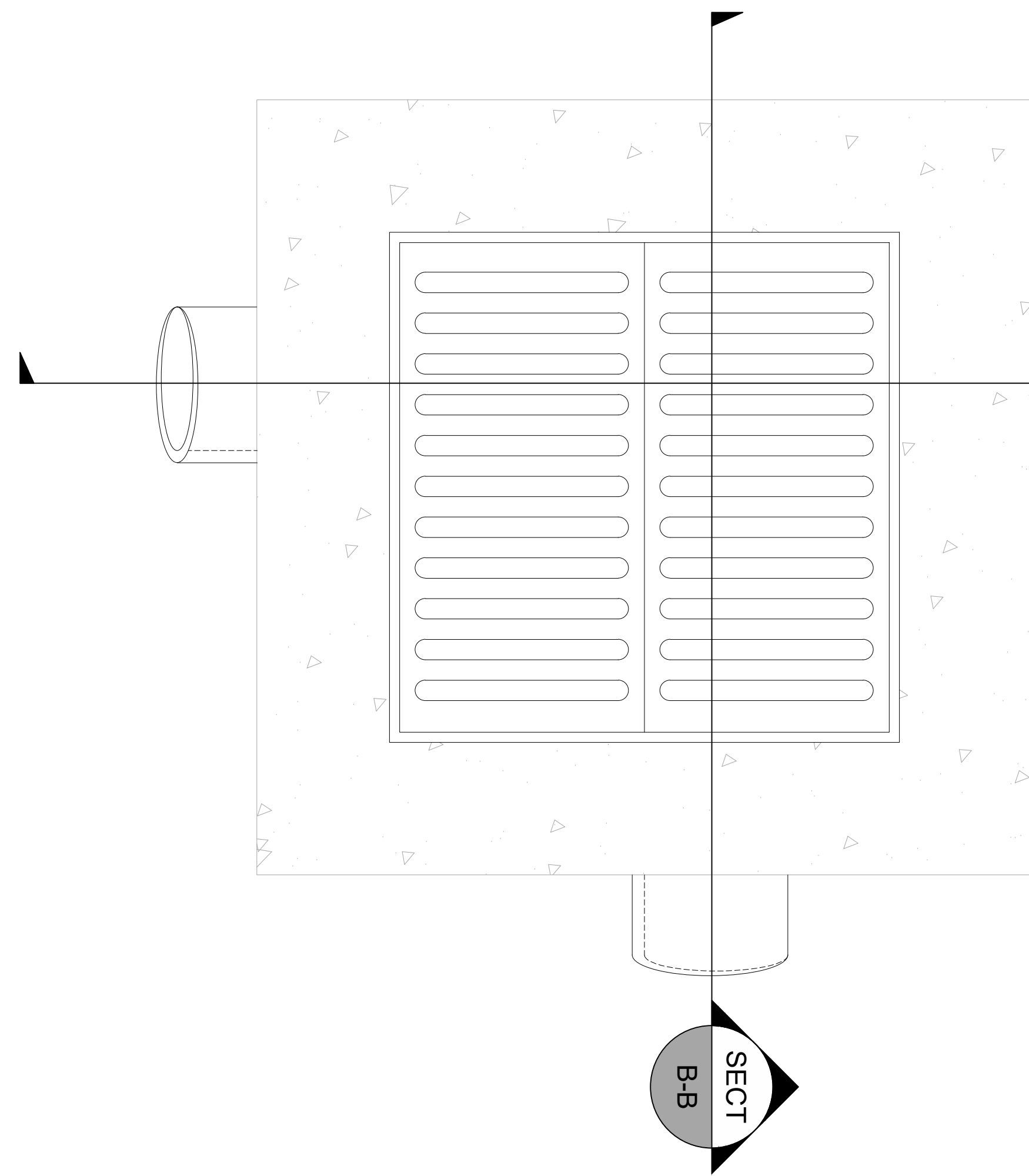
PIPES PLAN AND PROFILE

AIP PROJ. NO.
22-049A-1

AVIATION PROJ. NO.
2022.HAE.01



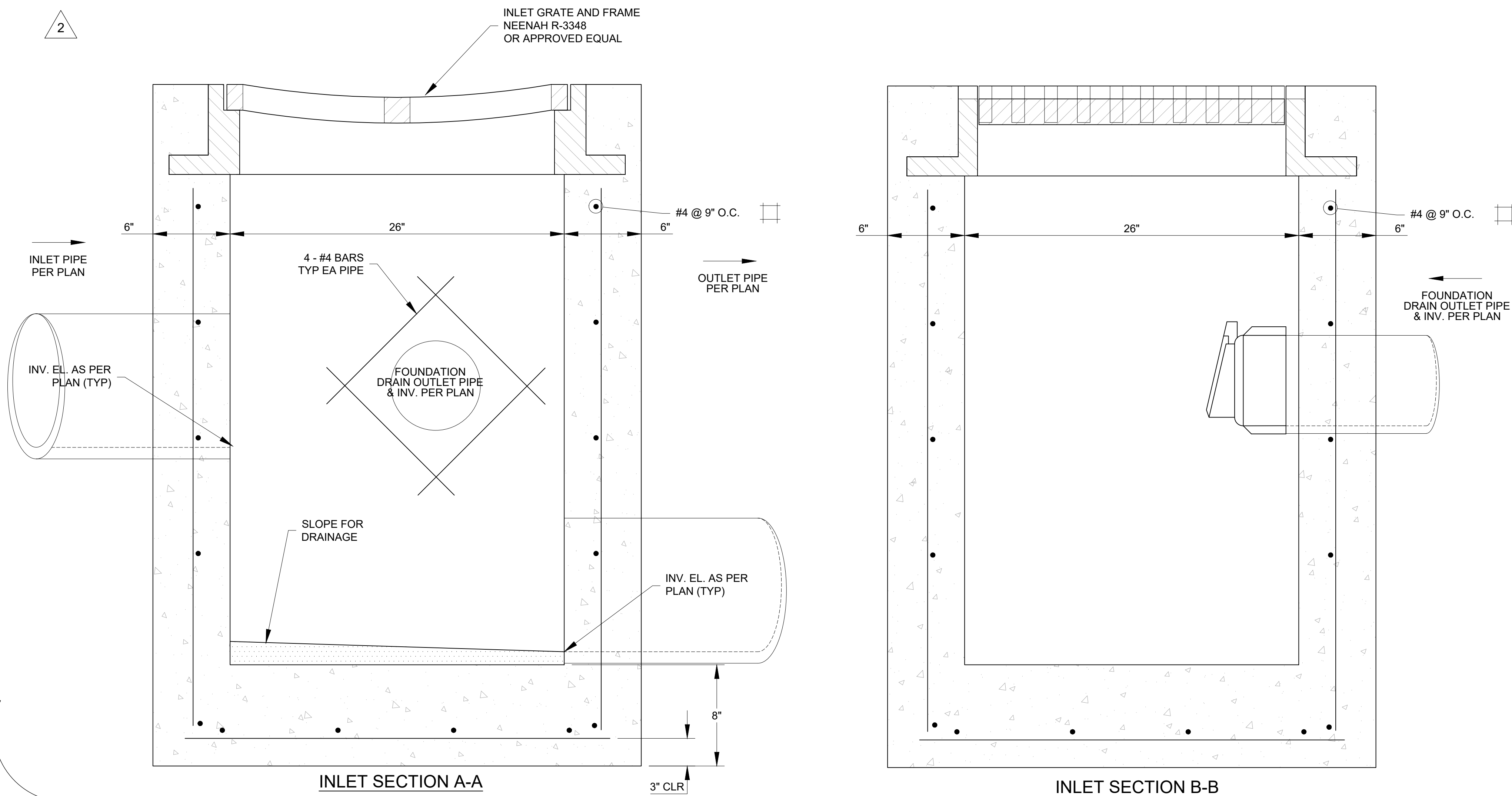
TYPICAL INLET CORNER REINFORCING



1

SINGLE INLET DETAIL (R-3348)
NTS

2



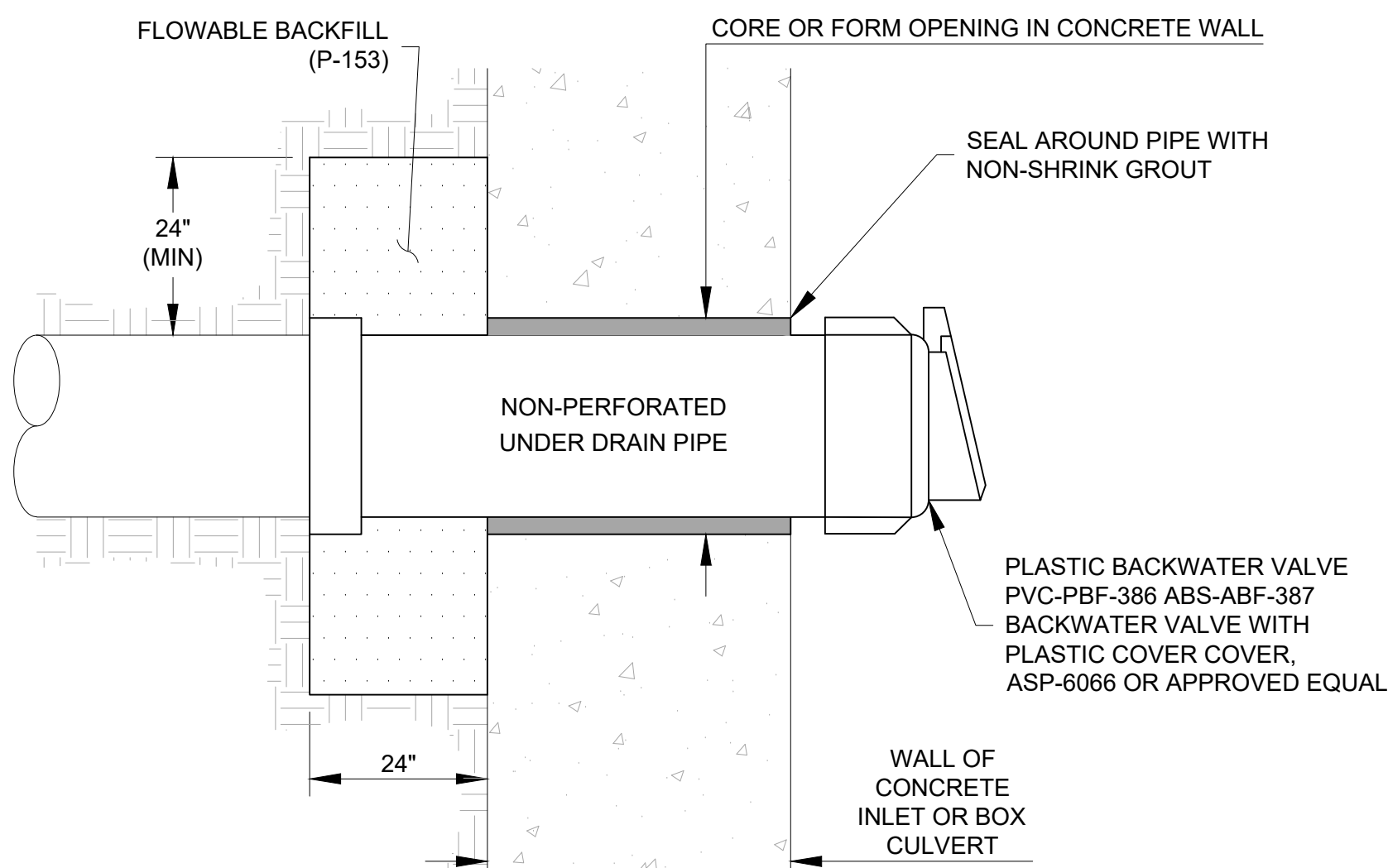
INLET SECTION A-A

INLET SECTION B-B

INLET NOTES:

1. FOR PIPE SIZES 12" AND LESS.
2. ALL INTERIOR SEAMS AND PIN HOLES SHALL BE GROUTED.
3. A SEPARATE TOP SLAB MAY BE UTILIZED.
4. SHAPING FOR SMOOTH MANHOLE INVERTS MUST BE DONE BY FORMING OR SHAPING CONCRETE BASE. MINIMUM DEPTH OF ANY SHAPING CONCRETE TO 2".
5. GRATE SHALL BE BOLTED TO FRAME DURING CONCRETE PLACEMENT.
6. REINFORCING STEEL SHALL BE GRADE 60.
7. AT CONTRACTOR'S OPTION THE MANHOLE/INLET STRUCTURES MAY BE PRECAST.

2



UNDERDRAIN OUTFALL TO STRUCTURE DETAIL
NOT TO SCALE

ISSUED FOR BID

CIVL NAME CIVL # CIVL DATE
DISCIPLINE (IF NECESSARY)
FOR AND ON BEHALF OF JVIATION , INC.

JVIATION[®]
A WOOLPERT COMPANY



DES:	D.R.J.	ISSUE RECORD			
		NO.	BY	DATE	DESCRIPTION
DR:	F.Z.D.	1	M.J.L.	10/03/2022	ISSUED FOR BID
		2	M.J.L.	10/24/2022	ADDENDUM NO. 1
CH:	C.L.G.				
APP:	D.R.J.	12		18	

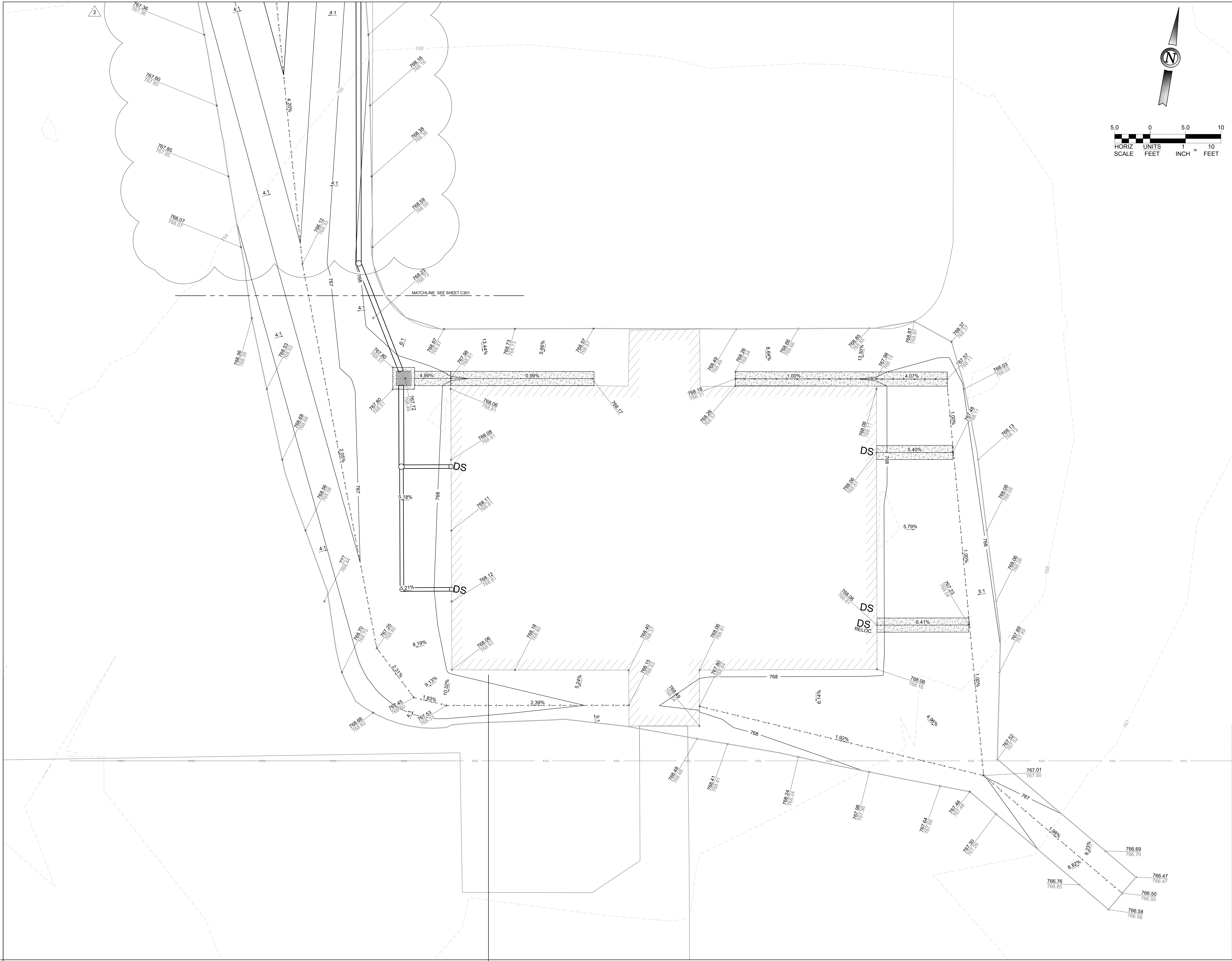
HAE TERMINAL RENOVATION

DRAINAGE DETAILS

AIP PROJ. NO.
22-049A-1

JVIATION PROJ. NO.
2022.HAE.01

SHEET NAME
C221
SHEET NO.
12 of 16



--- 1220 --- EXISTING MAJOR CONTOUR
 --- 1221 --- EXISTING MINOR CONTOUR
 --- 1220 --- PROPOSED MAJOR CONTOUR
 --- 1221 --- PROPOSED MINOR CONTOUR
 --- APPROX. GRADING LIMITS
 --- SWALE FLOW LINE
 X 26.49 ** SPOT ELEVATIONS: TOP
 26.38 (DARKER) IS PROPOSED ELEVATION
 (LIGHTER) IS EXISTING ELEVATION

1. LIMITS OF GRADING ARE APPROXIMATE AND DO NOT CONSTITUTE LIMITS OF DISTURBANCE. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE ALL AREAS DISTURBED BY CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST TO THE SPONSOR.
2. CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY OPERATIONS OUTSIDE OF THE GRADING LIMITS, INCLUDING ENGINEER-IDENTIFIED STAGING AREAS, STOCKPILE AREAS, AND HAUL ROUTES. ALL RESTORATION SHALL BE AT CONTRACTOR'S EXPENSE AND INCLUDES, BUT IS NOT LIMITED TO, MINOR GRADING AND TEMPORARY AND PERMANENT EROSION CONTROL MEASURES.
3. CONTRACTOR SHALL USE CAUTION AND PROTECT ALL EXISTING UNDERGROUND UTILITIES. CONTRACTOR TO PROTECT ALL EXISTING WALLS, MANHOLES, STORM STRUCTURES, AND PERIMETER ROADS NEAR CONSTRUCTION LIMITS.
4. IN THE EVENT OF ANY CONFLICT WITHIN THESE PLANS, THE INFORMATION IN THE PROFILES SHALL GOVERN OVER THE SPOT ELEVATIONS AND CROSS SECTIONS.
5. PROPOSED SPOT ELEVATIONS SHOWN AT CURB AND GUTTER REFER TO FLOWLINE ELEVATIONS.
6. PROPOSED CONTOURS REFLECT FINAL DESIGN ELEVATIONS.

CIVL NAME	CIVL #	CIVL DATE
DISCIPLINE (IF NECESSARY)		
FOR AND ON BEHALF OF JVIATION , INC.		

CIVL NAME	CIVL #	CIVL DATE
DISCIPLINE (IF NECESSARY)		
FOR AND ON BEHALF OF JVIATION , INC.		

13 of 16



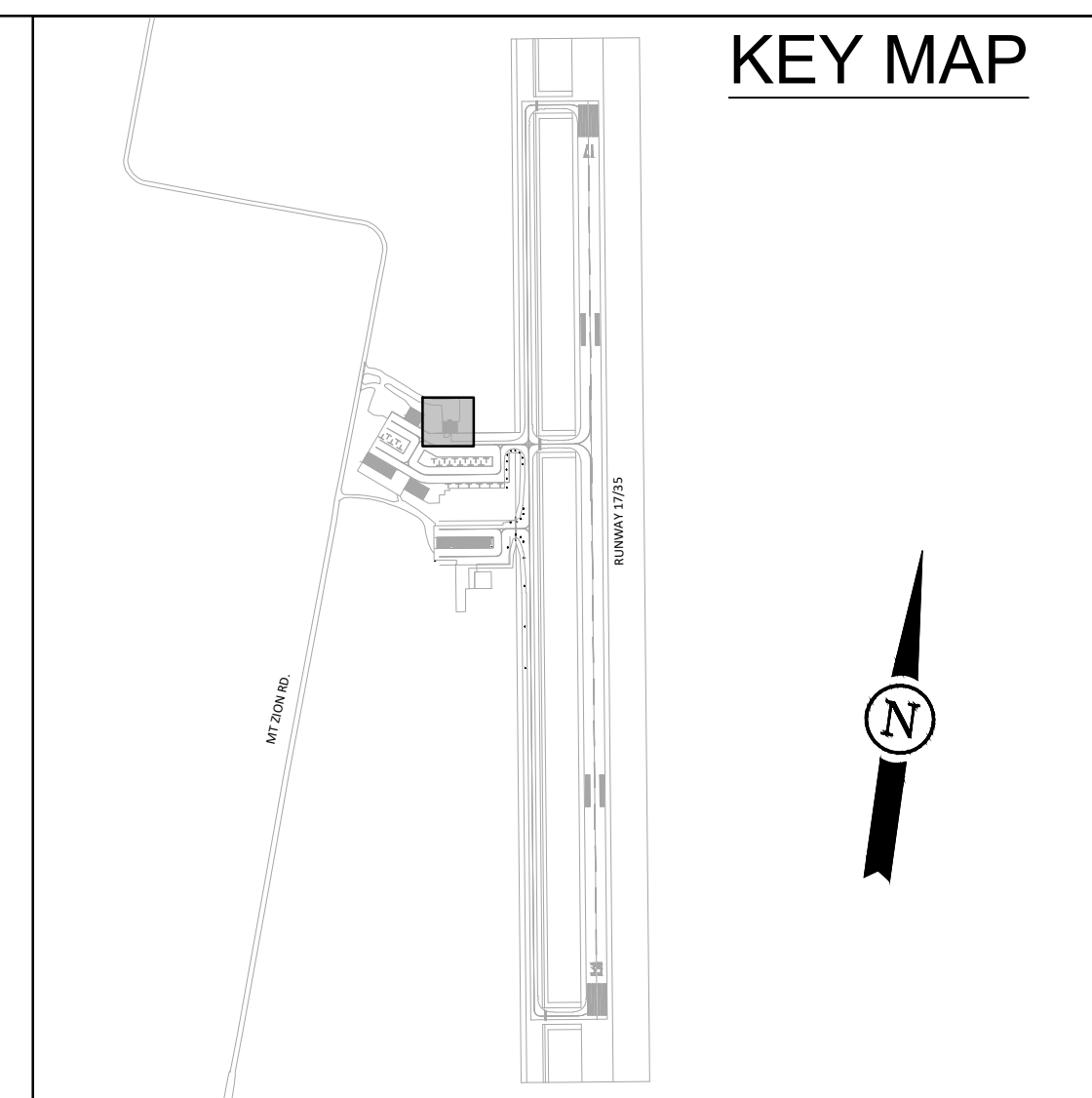
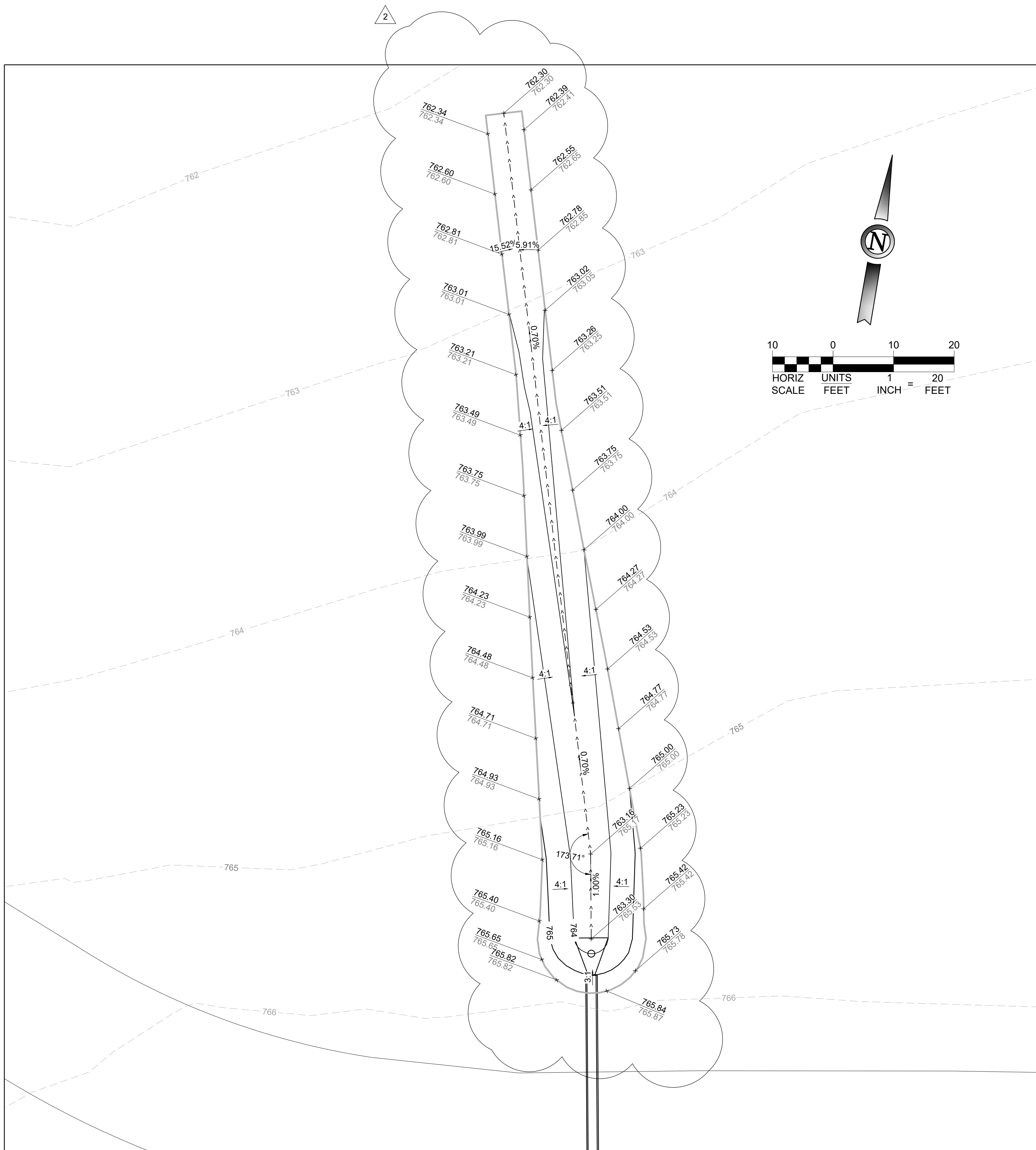
City of
Hannibal, MO

DES: D.R.J.		ISSUE RECORD			
		NO.	BY	DATE	DESCRIPTION
DR:	F.Z.D.	1	M.J.L.	10/03/2022	ISSUED FOR BID
		2	M.J.L.	10/24/2022	ADDENDUM NO. 1
CH:	C.L.G.				
APP:	D.R.J.				

GRADING PLAN
EAST AND WEST

AIP PROJ. NO.
22-049A-1

JVIATION PROJ. NO.
2022.HAE.01



GRADING LEGEND	
----- 1220 -----	EXISTING MAJOR CONTOUR
----- 1221 -----	EXISTING MINOR CONTOUR
===== 1220 =====	PROPOSED MAJOR CONTOUR
===== 1221 =====	PROPOSED MINOR CONTOUR
=====	APPROX. GRADING LIMITS
-> -> -> -> -> -> -> ->	SWALE FLOW LINE
<div><div><div><div>26.49</div><div>26.38</div></div><div>**</div></div></div> <div>SPOT ELEVATIONS: TOP (DARKER) IS PROPOSED ELEVATION AND BOTTOM (LIGHTER) IS EXISTING ELEVATION</div>	

GRADING NOTES

1. LIMITS OF GRADING ARE APPROXIMATE AND DO NOT CONSTITUTE LIMITS OF DISTURBANCE. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE ALL AREAS DISTURBED BY CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST TO THE SPONSOR.
2. CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY OPERATIONS OUTSIDE OF THE GRADING LIMITS, INCLUDING ENGINEER-IDENTIFIED STAGING AREAS, STOCKPILE AREAS, AND HAUL ROUTES. ALL RESTORATION SHALL BE AT CONTRACTOR'S EXPENSE AND INCLUDES, BUT IS NOT LIMITED TO, MINOR GRADING AND TEMPORARY AND PERMANENT EROSION CONTROL MEASURES.
3. CONTRACTOR SHALL USE CAUTION AND PROTECT ALL EXISTING UNDERGROUND UTILITIES. CONTRACTOR TO PROTECT ALL EXISTING INLETS, MANHOLES, STORM STRUCTURES, AND PERIMETER ROADS NEAR CONSTRUCTION LIMITS.
4. IN THE EVENT OF ANY CONFLICT WITHIN THESE PLANS, THE INFORMATION IN THE PROFILES SHALL GOVERN OVER THE SPOT ELEVATIONS AND CROSS SECTIONS.
5. PROPOSED SPOT ELEVATIONS SHOWN AT CURB AND GUTTER REFER TO FLOWLINE ELEVATIONS.
6. PROPOSED CONTOURS REFLECT FINAL DESIGN ELEVATIONS.

ISSUED FOR BID

CIVL NAME	CIVL #	CIVL DATE
DISCIPLINE (IF NECESSARY)		
FOR AND ON BEHALF OF JVIATION , INC.		

SHEET NAME	C301
SHEET NO.	14 of 16



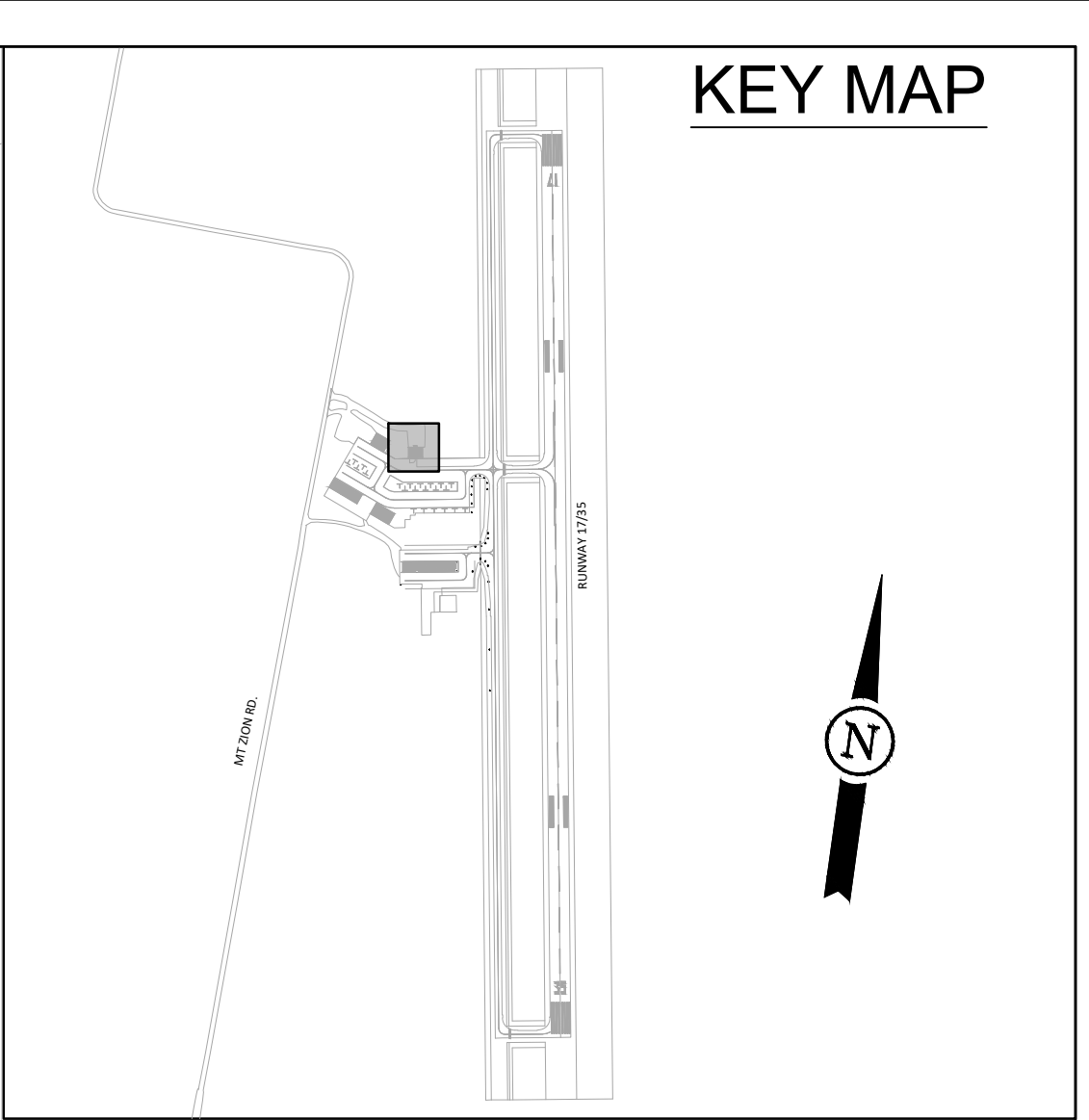
DES: D.R.J.	ISSUE RECORD			
DR: F.Z.D.	NO.	BY	DATE	DESCRIPTION
CH: C.L.G.	1	M.J.L.	10/03/2022	ISSUED FOR BID
	2	M.J.L.	10/24/2022	ADDENDUM NO. 1
APP: D.R.J.				

HAE TERMINAL RENOVATION

GRADING PLAN
WEST (CONTINUED) AND NORTH


AIP PROJ. NO.
22-049A-1

JVIATION PROJ. NO.
2022.HAE.01




EROSION CONTROL LEGEND	
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	APPROX. GRADING LIMITS
	SWALE FLOW LINE
	SILT FENCE
	DITCH CHECK DAM

ISSUED FOR BID		
CIVL NAME	CIVL #	CIVL DATE
DISCIPLINE (IF NECESSARY)		
FOR AND ON BEHALF OF JVIATION , INC.		



A WOOLPERT COMPANY



DES: D.R.J.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: F.Z.D.	1	M.J.L.	10/03/2022	ISSUED FOR BID
	2	M.J.L.	10/24/2022	ADDENDUM NO. 1
CH: C.L.G.				
APP: D.R.J.				

HAE TERMINAL RENOVATION

AIP PROJ. NO.
22-049A-1

JVIATION PROJ. NO.
2022.HAE.01

EROSION CONTROL PLAN EAST AND WEST	
SHEET NAME C500	SHEET NO. 15 of 16



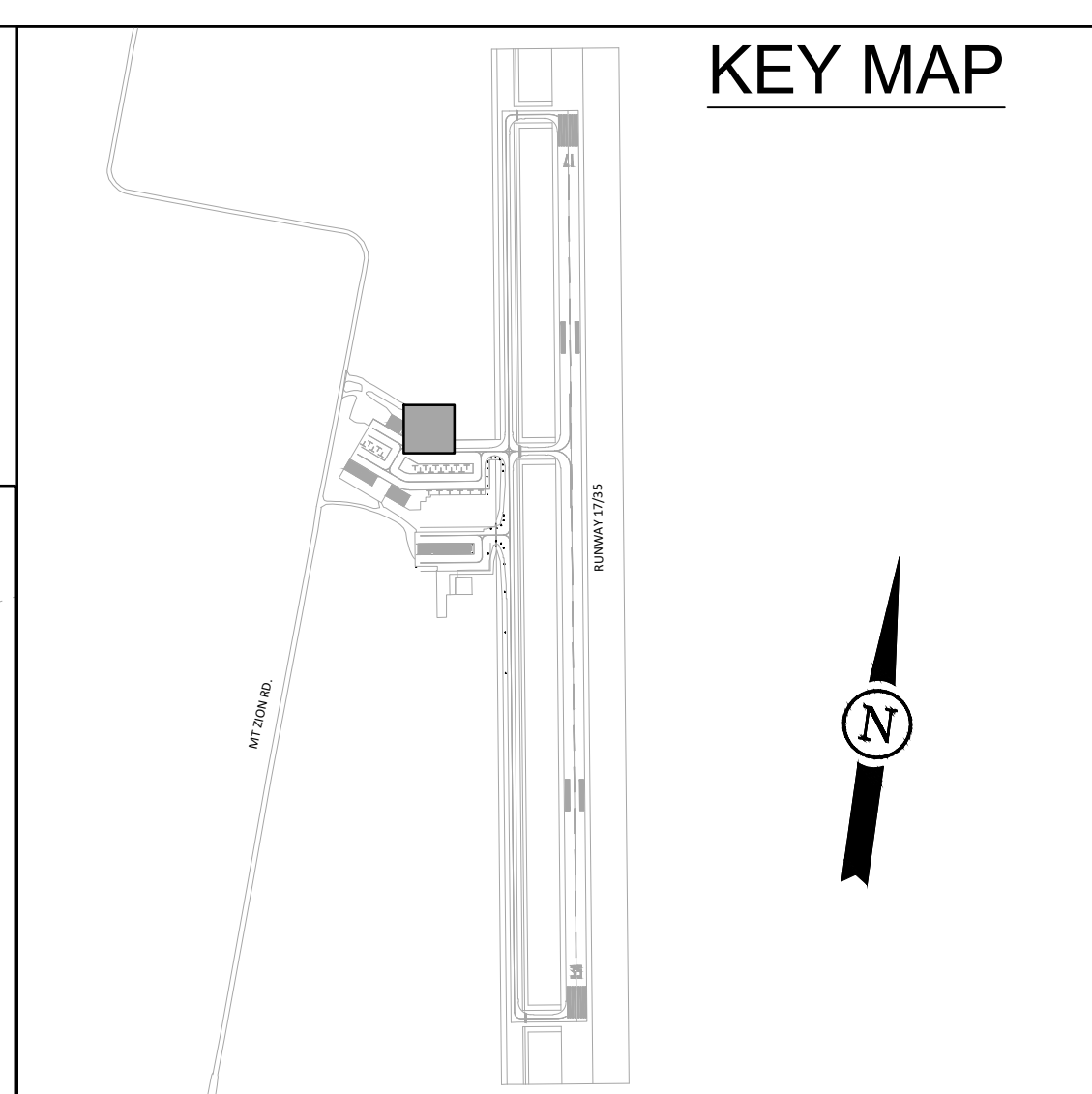
DES: D.R.J.	ISSUE RECORD			
DR: F.Z.D.	NO.	BY	DATE	DESCRIPTION
	1	M.J.L.	10/03/2022	ISSUED FOR BID
CH: C.L.G.	2	M.J.L.	10/24/2022	ADDENDUM NO. 1
APP: D.R.J.				

EROSION CONTROL PLAN
WEST (CONTINUED) AND NORTH

AIP PROJ. NO. 22-049A-1

JVIATION PROJ. NO. 2022.HAE.01

SHEET NAME
C501
SHEET NO.
16 of 16



EROSION CONTROL LEGEND

	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	APPROX. GRADING LIMITS
	SWALE FLOW LINE
	SILT FENCE
	DITCH CHECK DAM

ISSUED FOR BID

CIVL NAME	CIVL #	CIVL DATE
DISCIPLINE (IF NECESSARY)		
FOR AND ON BEHALF OF JVIATION , INC.		

HANNIBAL REGIONAL AIRPORT

MoDOT PROJECT NO. 22-049A-1

DATE: October 18, 2022

TIME: 2:00 P.M.

PRE-BID CONFERENCE

ALTERNATE CONFERENCE CALL INFORMATION: +1 937-240-2430, ID: 866774677#

1. RECORDING OF ATTENDEES

- A. Recording of attendees, firm represented, address, phone number and email.

2. INTRODUCTIONS & PROJECT DESCRIPTION

- A. City of Hannibal Representatives

- Andy Dorian, Director of Central Services

- B. Airport Engineering – Jviation, a Woolpert Company

- Kevin Costello – Design Project Manager
- Isaac De la Cruz – Construction Project Manager
- Joe Pestka – Project Director

- C. MoDOT Aviation

- Darrell Goth
- Jason L. Smallfield

- D. Project Schedule (Total 35 Calendar Days)

- Schedule I – Terminal Renovation

- E. Work Items – FAA Specifications

SUMMARY OF APPROXIMATE QUANTITIES			
Item No.	Item Description	Unit	Schedule I
C-102a	Install Temporary Silt Fence	LF	500
C-102b	Install Erosion Control Blanket	SY	30
C-102c	Install Inlet Protection	EA	3
C-105a	Mobilization	LS	1
C-101a	Asphalt Pavement Removal Full Depth	SY	25
P-152a	Unclassified Excavation	CY	231
P-610a	Install Concrete Pan	LF	80
P-610b	Remove and Replace Sidewalk	SY	4
D-701a	Install 18" Reinforced Concrete Pipe, Class V	LF	48

D-701b	Install 18" Flared End Section (FES)	EA	2
D-701c	Install 6" PVC Pipe Including all Bends and Reducers	LF	20
D-701d	Install 8" PVC Pipe Including all Bends and Reducers	LF	85
D-705a	Install 6-Inch Perforated Polyethylene Pipe	LF	275
D-751a	Install 6-Inch Underdrain Cleanout	EA	1
D-751c	Install Double Inlet	EA	1
T-901a	Seeding with Hydromulch	AC	.25

Arch-1	Internal Building Components	LS	1
--------	------------------------------	----	---

Provide a Single Lump Sum Line Item for work inside the building:

Construction Joint Repair Approx. 50 ft & Reinsulating Water Line Approx. 225ft - V.I.F.

3. BID OPENING

- A. Date: Thursday, October 27, 2022, at 2:00 P.M. (CST)
- B. Location: City Council Chambers
City of Hannibal
320 Broadway
Hannibal, MO 63401
- C. Bid Bond: 5% of bid amount – Section 2, Instructions to Bidders, Paragraph 4 and Section 20-10 Bid Guaranty.
- D. Contract Proposal: Proposal Form starts on page B-1 through B-35.
All pages B-1 through B-35 will need to be submitted with bid.
- A. Addenda Acknowledge all Addenda. Addendum 1 has been issued.
Addendum 2 will be issued to include this meeting's minutes.
- B. Award: Notice to Bidders, Section 1, Page 2 and Section 30 Award and Execution of Contract.
 - **The Bid Hold Period is 90 calendar days.**
(90 days from October 27 is January 24)

4. DBE GOALS

- A. 0% of Contract Amount Required.

5. QUALIFICATION OF BIDDERS

- A. Qualifications shall be furnished per Section 20-02. Each bidder shall furnish the Owner satisfactory evidence of his or her competency and financial responsibility to perform the proposed work. This includes resumes of key personnel, equipment list and a list detailing experience on similar construction projects.

6. ESTIMATED CRITICAL CONTRACT DATES

- A. Contract Award: December 2022 - January 2023 (ESTIMATED) –The signature of the bidder on the proposal form indicates that within thirty (30) calendar days from acceptance of its bid offer it will execute a contract with the Owner and, if indicated in this solicitation, furnish a project specific Certificate of Insurance naming the Owner as Additional Insured, furnish Performance and Payment Bonds and any other documents required by the Contract Documents.
- B. Award date will depend on receipt of federal funds. Bids can be held up to 90 calendar days.
- C. Notice to Proceed: Spring 2023 (ESTIMATED), Refer to Section 80-02.

Project Time: 35 Calendar Days total for Schedule I.
Notice to Proceed, Refer to Section 80-08 for more information.

This project is FAA/MoDOT funded so timeline will be dependent on MoDOT Aviation funding availability and approval.

7. BONDING

- A. Payment Bond: 100% of Bid Amount, Refer to Section 30-05
- B. Performance Bond: 100% of Bid Amount, Refer to Section 30-05

8. BUY AMERICAN REQUIREMENTS

- A. See Section 4 – Supplementary Provisions, Part A Federal and State Provisions for Buy American Requirements. Buy American Certification required to be submitted as part of the Bid Proposal Form.

9. FEDERAL AND STATE WAGE RATES (DAVIS BACON ACT)

- A. The higher of the Federal wage and State wage rates are required for this project for work completed under Schedules I. Refer to Section 4, Parts D, Federal and State Wage Rates.

10. LIQUIDATED DAMAGES

- A. As compensation for non-use, the Contractor shall be assessed a liquidated damage of **\$1,000/calendar day(s)** for each day that the work remains uncompleted beyond the contract period for **Schedule I**. Reference SECTION 80-08 FAILURE TO COMPLETE ON TIME.

In addition, **up to \$1,730 per calendar day for the Construction manager, and up to \$1,390 per calendar day for each RPR, plus any incurred expenses** (additional testing, per diem, lodging, etc.) will be charged to the Contractor for that time which exceeds the number of calendar day(s) allowed. Reference the LOCAL PROVISIONS in Section 4, Part C for more information.

The maximum construction time for the overall project is 35 calendar days.

Please see the Phasing Sheets, G050 through G051, of the Construction Drawings for more information on the scheduling/sequencing of work.

- B. Permitting the Contractor to continue and finish the work or any part of it after the time fixed for its completion, or after the date to which the time for completion may have been extended, will in no way operate as a waiver on the part of the Owner of any of its rights under the contract.
- C. The Engineer and City have attempted to estimate the amount of time needed for construction management services by the Engineer. **If unusually long working days or extended working days are required, reimbursement for unscheduled employment of the engineer may be required as shown in Section 4 of the Contract Documents, under "Liquidated Damages".**

11. PROJECT PHASING

- A. Reference the Phasing Sheets, G050 through G051, of the Construction Drawings.
 - a. One Schedule, One Phase
 - b. Contractor Access Times – AOA shall remain open and unaffected
 - c. Haul Routes – The contractor shall be responsible for any damage to existing facilities or roads. Repairs shall be made at no additional cost to the sponsor.
- B. CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) - The Contractor shall submit a Safety Plan Compliance Document (SPCD) (Refer to Appendices A and B) to the engineer and airport operator for approval PRIOR to the issuance of Notice to Proceed as required by FAA Advisory Circular (AC) 150/5370-2G "Operational Safety on Airports During Construction".

12. MISCELLANEOUS

- A. License – Contractor must be licensed to work in the City of Hannibal.
- B. Contractor shall be responsible to acquire any necessary permits.
- C. Airport radios shall be required and must be monitored at all times.
- D. Questions will be taken via written format until **Monday, October 24, 2022 at 9:00 a.m. (CST)** by email to bid.info@woolpert.com (CC: kevin.costello@woolper.com).
 - a. Any last addendum items should be issued no later than 5:00 p.m. Tuesday, October 25, 2022.

- b. Detailed questions should be submitted as early as possible so they can be addressed prior to the last addendum date.

13. MEETING MINUTES

Attendees who called in virtually:

- B. Kevin Scherr – Jviation Project Manager
- C. Kevin Costello – Jviation Design Project Manager
- D. Emily Yea - Jviation Project Coordinator
- E. Derek Johnson – Jviation Civil Engineer
- F. Darrell Goth – MoDOT Aviation

Attendees on Site:

- G. Isaac De la Cruz – Jviation Construction Project Manager
- H. Andy Dorian – City of Hannibal Director of Central Services
- I. Jason Smallfield - MoDOT Aviation
- J. Bill Deering – Bleigh Construction
- K. Steve Ward – Bleigh Construction

- Contractor noted quantities may not be uniform in the addendum , specifically D-701A. Isaac noted these would be uniform in next addendum sent out.
- Kevin Costello stated quantities were removed for work inside of the building ,but that scope still remains in the project to be bid.
- Isaac stated it will be 90 calendar days to award from bid opening
- Isaac stated there is no DBE Goal for this project.
- Isaac stated there is no exact completion date for the project except targeting start on spring 2023 (contractor can wait for ground to thaw).
- Isaac stated there is no exact completion date

- Kevin Scherr stated once notice to proceed is given, the contractor will have 10 days to start construction.
- A contractor asked if the entire area in green was topsoil that needed to be stripped. Kevin Scherr stated, yes it is for positive grading and not necessarily topsoil ,but can also be used and replaced as the topsoil in this area.
- A question arose from a contractor about utility locating. Kevin Scherr stated utility locating will be the contractor's responsibility. If a utility relocation must occur it will be treated as a change order and not incidental.
- A contractor asked if any road or parking lot closures would be allowed. Andy Dorian responded by saying it may be shut down one day at a time and the airport was willing to work with the contractor.
- A contractor noted they were quoted with a 22 week delivery time for this specific inlet and grate.
- A contractor asked about the liquidated damages charge if project was not completed within the 35 day allotment. Kevin Scherr stated the maximum penalty is the \$1,000 per day penalty added to the \$1,730 day penalty for the construction manager.
- Isaac stated questions could be asked until Monday October 24th.
- The meeting ended with a project site tour.
- Questions / Comments during site Tour:
- Contractor suggested a 35 working day schedule.
- Contractor and Andy discussed that there would be significant savings if the City places the asphalt where asphalt replacement is required. It was determined that the contractor would install the base and the city will install the asphalt with their paving crew.

WATERPROOFING

CCW-570 System

Description

CCW-570 System is a multi-component, quick-curing, UV-stable, high performance, reinforced, cold liquid-applied Polymethyl Methacrylate (PMMA) waterproofing flashing that can achieve same day application. The System consists of:

- CCW-570 Resin
- CCW-570 Primer
- CCW-570 Catalyst
- CCW-570 Fleece

CCW-570 System is suitable for exposed flashing applications with CCW-500R Hot-Applied Waterproofing Membrane and CCW MiraSEAL™ Cold-Applied Waterproofing Membrane for use in roof decks, parking decks, plaza decks, balconies and terraces.

Surface Preparation

All surfaces must be free from gross irregularities, loose, unsound or foreign material such as dirt, ice, snow, water, grease, oil, release agents, lacquers, or any other condition that would be detrimental to adhesion of the system. This requires careful preparation of existing horizontal and vertical substrates; cracks are filled, expansion joints are prepared, flashings are removed or modified, and termination points are determined. Substrates and penetrations are prepared to rigorous industry standards, and may require scarifying, sandblasting or grinding in some cases to achieve a suitable substrate.



WATERPROOFING

CCW-570 Primer

After substrate preparation, apply CCW-570 Primer and temporary joint filler, and proper tie offs. CCW-570 Primer may be brushed or rolled onto any clean and properly prepared surface. Allow primer to cure completely prior to application of the CCW-570 Resin.

Mixing – Primer

Note: Prior to opening the containers of CCW-570 Primer, wear appropriate safety glasses and personal protective equipment.

Step 1: Mix CCW-570 Primer (Component A) with a CCW approved agitator or stir stick, until the liquid is a uniform color, with no streaks present.

Step 2: Add 100 gram bag(s) of CCW-570 Catalyst (Component B) to CCW-570 Primer (Component A) and mix with the same agitator for 2 minutes or until the catalyst powder is completely mixed throughout the liquid resin. The amount of CCW-570 Catalyst must be adjusted according to temperature. Refer to the CCW-570 Catalyst Chart for CCW-570 Primer.

CCW-570 Catalyst Chart for CCW-570 Primer

Material Temperature °F	CCW-570 Catalyst (100 g/bag)	Pot Life (min)	Completely Cured
35°F–50°F	2 bags	20	45
50°F–65°F	2 bags	20	30
65°F–85°F	1 bag	15	30
>85°F	½ bag	10	15

Note: CCW-570 Primer is extremely fast curing. Excessive mixing time reduces the available working time for the Primer.

Application – Primer

After mixing, apply the primer with a roller or brush evenly onto the surface in a cross directional method, or utilizing a pour and spread method to fully cover the substrate. Porous substrates may require an adjustment to the primer application rate or multiple coats to achieve proper pore saturation.

Note: Allow the CCW-570 Primer to completely dry without tack prior to application of the CCW-570 Resin. Do not apply CCW-570 Resin to tacky or wet primer.

Limitations – Primer

CCW-570 Primer may be applied when the ambient temperature is 35°F (2°C) and rising. The substrate temperature must be a minimum of 5 degrees above the dew point. CCW membrane must be applied to primer within 48 hours of primer application. Primer exposed for more than 48 hours must be re-primed.

Coverage Rate – Primer

Approximate coverage rate is 125 ft² (11.6 m²) per 5 kg container.

Note: Yields may vary depending upon smoothness and absorbency of substrate.

CCW-570 Resin

CCW-570 Resin must be applied to primer within 48 hours of primer application. Primer exposed for more than 48 hours must be re-primed. CCW-570 Resin may be brushed or rolled onto any clean and properly primed surface. Allow primer to cure completely prior to application of the CCW-570 Resin.

Mixing – Resin

Note: Prior to opening the containers of CCW-570 Resin, wear appropriate safety glasses and personal protective equipment.

Step 1: Mix CCW-570 Resin (Component A) with a CCW approved agitator, until the liquid is a uniform color, with no light or dark streaks present.

Step 2: Add 300 gram bag(s) of CCW-570 Catalyst (Component B) to CCW-570 Resin (Component A) and mix with the same agitator for 2 minutes, or until the catalyst powder is completely mixed throughout the liquid resin. The amount of Catalyst must be adjusted according to temperature. Refer to the CCW-570 Catalyst Chart for CCW-570 Resin.

CCW-570 Catalyst Chart for CCW-570 Resin

Material Temperature °F	CCW-570 Catalyst (300 g/bag)	Pot Life (min)	Completely Cured
23°F – 35°F	2 bags	45	90
35°F – 50°F	2 bags	35	70
50°F – 70°F	1½ bags	30	40
70°F – 85°F	1 bag	20	30
>85°F.	½ bag	20	30

Note: CCW-570 Resin is extremely fast curing. Excessive mixing time reduces the available working time for the Resin.

Application – Resin

Step 1: After the resin is mixed, use a CCW approved roller nap or brush and apply $\frac{2}{3}$ of the resin liberally and evenly onto the surface in even strokes. Cover one work area at a time, between 10–15 ft².

Step 2: Roll the CCW-570 Fleece directly into the resin, making sure the SMOOTH SIDE IS FACING UP (natural unrolling procedure), avoiding folds and wrinkles. Use the roller or brush to work the resin into the fleece, saturating from the bottom up.

Step 3: Apply the remaining $\frac{1}{3}$ of the resin to the top of fleece to complete the saturation. Rolling the final coat of resin onto the fleece should result in a glossy appearance. The fleece can only hold so much resin and all excess should be rolled forward to the unsaturated portion of the fleece. The correct amount of resin will completely saturate the fleece and no dry spots should be visible. Work wet membrane to avoid any blisters, openings, or lifting at corners, junctions, and transitions. Always ensure resin is fully saturated.

Detailing: Refer to standard details 500-20A, 500-20B, 500-20C, 500-20D, 500-20E, or 500-20F.

Limitations – Resin

CCW-570 Resin membrane may be applied when the ambient temperature is between 23°F (-5°C) and 95°F (35°C). The substrate temperature must be a minimum of 5°F (-15°C) above the dew point.

Note: Extra caution should be taken in below freezing temperatures. The viscosity increases with falling temperature.

Ensure sufficient positive airflow over freshly applied CCW-570 Resin material during entire curing period to facilitate complete cure of the CCW-570 Resin.

Coverage Rate – Resin

Approximate coverage rate is 60 ft² (5.6 m²) per 15 kg container.

Note: Yields may vary depending upon smoothness and absorbency of substrate.

WATERPROOFING

CCW-570 Fleece

Application – Fleece

Mix and apply CCW-570 Resin in strict accordance with CCW-570 Resin instructions. Apply mixed resin liberally to the prepared surface with a roller using a broad, even stroke. Roll out dry polyester fleece onto the liquid resin mix, making sure the SMOOTH SIDE IS FACING UP (natural unrolling procedure). The fleece will begin to rapidly saturate with the liquid resin mix. Allow fleece to saturate with resin from bottom up prior to pouring additional resin on top of surface. Applying pressure, roll the fleece with a medium nap roller to eliminate air bubbles, wrinkles, etc. Apply additional liquid resin mix on top of fleece until fully saturated and continue to work resin. The correct amount of resin will leave no whiteness in fleece and there will be a slightly fibrous surface texture. However, allow no ponding or excessive build-up of the resin. The coating should be smooth and uniform.

Limitations – Fleece

Fleece must be kept clean and dry prior to and during application.

Coverage Rate – Fleece


CCW-570 Fleece is available in rolls 164 ft. (50 m) long by 4 and 20 nominal widths. 110 ft² (10.2 m²) of fleece per 100 ft² (9.3 m²) of surface coverage.

Note: Allow 10% for 2" (5 cm) over-laps and waste.

Sustainability Information

Rapidly Renewable Resource	0%
Recycled Content % (post / pre)	0/0
Manufacturing Locations	Canada, Germany & Italy

CCW-570 System Standards

	Initial	Weathered
 Solar Reflectance	0.86	Pending
Thermal Emittance	0.88	Pending
Rated Product ID Number	0951-0011	
Licensed Seller ID Number	0951	
Classification	Production Line	

Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.

Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.



Physical Properties

CCW-570 Primer	Value
Color	Transparent
Physical State	Cures to Solid
VOC Content	62 g/l
Usage Time*	15 minutes
Water Resistant After*	30 minutes
Cures After*	30 minutes
Apply Membrane/Coating After*	30 minutes

*Values obtained at 73°F, 50% relative humidity, may vary depending upon air flow, humidity and temperature.

CCW-570 Resin	Test Method	Value
Color		Gray
Physical State		Cures to Solid
Thickness (120 Fleece)		90 mils
VOC Content		32 g/l
Peak Load @ 73°F, avg.	D5147	70 lbf/in
Elongation	D5147	Min 30%
Tearing Strength	D5147	80 lbf
Dimensional stability	D1204	0.05%
Water absorption	D570	0.05% (7 days)
Impact Resistance	D2240	Shore A:75 +/- 5
Crack spanning		2 mm/0.08 inch
Short-term temperature resistance		250°C/482°F
Usage time*		20 minutes
Rainproof after*		30 minutes
Solid to walk on after*		30 minutes
Apply coating after*		60 minutes
Apply overburden after*		60 minutes
Completely hardened*		6 hours

*Values obtained at 73°F, 50% relative humidity, may vary depending upon air flow, humidity and temperature.

CCW-570 Fleece	Test Method	Value
Color		White
Physical State		Solid
Thickness		40 mils
Weight (g/m ²)		120
Tensile strength @ break		>1,550 lbs.
Elongation		>65%
Tear resistance		>530 lbs.
Puncture strength		>1,065 lbs.

Warnings and Hazards

Review Safety Data Sheets before handling; available online at carlisleccw.com.

Storage

Always store CCW-570 Primer and CCW-570 Resin in a cool and dry location. Do not store in direct sunlight or in a temperature below 35°F (1.7°C) or above 80°F (27°C). Approximate shelf life is 18 months with proper storage. CCW-570 Catalyst must be stored separately from the primer and resin.

Always store CCW-570 Catalyst in a cool and dry location. Do not store in direct sunlight or in temperatures below 35°F (1.7°C) or above 80°F (27°C). Approximate shelf life is 36 months with proper storage. Store separately from the other CCW-570 components.

Always store CCW-570 Fleece in a cool and dry location. Store flat to avoid deforming rolls and creasing fabric. Shelf life indefinite with proper storage.

For best use, acclimate all CCW-570 components at temperatures between 65 –70°F (18 – 21°C) for a minimum of 24 hours prior to application.

WATERPROOFING

Disposal

Cured CCW-570 Primer may be disposed of in standard landfills. This is accomplished by thoroughly mixing all components.

Note: Uncured primer and catalyst are considered hazardous materials and must be handled as such, in accordance with local, state and federal regulations. Do not throw uncured resin or catalyst away.

Cured CCW-570 Resin may be disposed of in standard landfills. This is accomplished by thoroughly mixing all components.

Note: Uncured resin and catalyst is considered a hazardous material and must be handled as such, in accordance with local, state and federal regulations. Do not throw uncured resin away.

CCW-570 Catalyst by itself is considered a hazardous material and must be handled as such, in accordance with local, state and federal regulations.

CCW-570 Fleece may be disposed of in standard landfills.

Limited Warranty

Carlisle Coatings & Waterproofing Incorporated (Carlisle) warrants this product to be free of defects in workmanship and materials only at the time of shipment from our factory. If any Carlisle materials prove to contain manufacturing defects that substantially affect their performance, Carlisle will, at its option, replace the materials or refund its purchase price. This limited warranty is the only warranty extended by Carlisle with respect to its materials. There are no other warranties, including the implied warranties of merchantability and fitness for a particular purpose. Carlisle specifically disclaims liability for any incidental, consequential, or other damages, including but not limited to, loss of profits or damages to a structure or its contents, arising under any theory of law whatsoever. The dollar value of Carlisle's liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the Carlisle material in question.