DOCUMENT 00 00 14

ADDENDUM NO. 4 JUNE 16, 2023

2023 CONSTRUCT SRE BUILDING AIP No. 3-27-0025-19-2023 CITY OF DULUTH NO. 23-4402 SKY HARBOR AIRPORT DULUTH, MN

SEH No. DULAI 167772

- From: Short Elliott Hendrickson Inc. 3535 Vadnais Center Drive St. Paul, MN 55110-3507 651.490.2000
- To: Document Holders

DOCUMENT HOLDERS on the above-named project are hereby notified that this document shall be appended to, take precedence over and become part of the original bidding documents dated May 10, 2023 and Addenda dated May 22, 2023, May 31, 2023, and June 2, 2023, for this work. Bids submitted for the construction of this work shall conform to this document.

This addendum consists of 1 page and Section 00 01 10 Table of Contents (6 pages), Section 01 71 23 Field Engineering (2 pages), Section 32 92 00 Stabilized Turf Establishment (4 pages) and Drawings G2.01 and C2.00.

Changes to Introductory Information:

1. Section 00 01 10 Table of Contents, DELETE in its entirety and REPLACE with attached specification.

Changes to Specifications:

- 2. Section 01 71 23 Field Engineering, DELETE in its entirety and REPLACE with attached specification.
- 3. Section 32 92 00 Stabilized Turf Establishment, DELETE in its entirety and REPLACE with attached specification.

Changes to Plan Drawings:

- 4. Drawing G2.01 General Notes and Statement of Estimated Quantities, DELETE in its entirety and REPLACE with attached drawing.
 - 1. Updated quantities and SEQ notes.
- 5. Drawing C2.00 Grading Plan, DELETE in its entirety and REPLACE with attached drawing.
 - 1. Clarified estimated retaining wall height.
- Note: Receipt of this Addendum No. 4, dated June 16, 2023, shall be acknowledged on <u>Bid Express</u>. Failure to do so will not allow Bidder to submit Bid.

END OF ADDENDUM

DOCUMENT 00 01 10

TABLE OF CONTENTS

Number

Document

Volume 1

00 01 01 00 01 05 00 01 08 00 01 10	Introductory Information Title Page Certification Project Directory Table of Contents
00 11 13 00 21 13 00 31 32 00 41 00 00 43 00 00 43 37 00 45 19 00 45 45 00 45 47 00 45 49 00 46 00	Bidding Requirements Advertisement for Bids Instructions to Bidders Geotechnical Data Bid Form Bid Bond List of Proposed Suppliers Affidavit of Non-Collusion Verification of Compliance with Minnesota Statutes 16C.285 Certification of Compliance Buy American Certificate for Total Facility Demonstration of Good Faith DBE Efforts
00 51 00 00 52 00 00 55 00 00 61 13 00 61 14	Contract Forms Notice of Award Standard Form of Agreement Notice to Proceed Performance Bond Payment Bond
Section 10 Section 20 Section 30 Section 40 Section 50 Section 60 Section 70 Section 80 Section 90	FAA General Provisions Definitions and Terms Proposal Requirements and Conditions Award and Execution of Contract Scope of Work Control of Work Control of Materials Legal Regulations and Responsibility to Public Execution and Progress Measurement and Payment
00 72 00 00 73 00 00 73 30 00 73 45	Conditions of the Contract Standard General Conditions Supplementary Conditions Additional Special Provisions for Federally-Funded Contracts Minnesota Labor and Wage Rate Requirements

DIVISION 1 - GENERAL REQUIREMENTS

	Summary
01 11 00	Summary of Work
01 23 00	Alternates

01 25 13 01 26 00	Price and Payment Procedures Product Substitution Procedures Contract Modification Procedures	
01 31 13 01 31 19 01 33 00	Administrative Requirements Coordination Project Meetings Submittal Procedures	
01 42 15 01 42 19 01 45 10	Quality Requirements Specification Format, Definitions and Abbreviations Reference Standards for Building Construction Quality Control for Building Construction	
01 51 36 01 55 15 01 57 33	Temporary Facilities and Controls Temporary Water Maintenance and Restoration of Haul Roads Application of Water for Dust Control	
01 60 00	Product Requirements Product Requirements	
01 71 23 01 78 23 01 78 37	Execution and Closeout Requirements Field Engineering Operation and Maintenance Data Product Warranties	
DIVISION 2 - EXISTING CONDITIONS		
02 41 33	Demolition and Structure Moving Removing Pavement and Miscellaneous Structures	
DIVISION 3 - CONCRETE		
03 11 00 03 20 00	Maintenance of Concrete Concrete Forming Concrete Reinforcing	
03 30 00	Cast-in-Place Concrete Cast-in-Place Concrete	
DIVISION 7 - THERMAL AND MOI	STURE PROTECTION	
DIVISION 7 - THERMAL AND MOI 07 21 00 07 29 13	STURE PROTECTION Thermal Protection Thermal Insulation Pre-Engineered Building Insulation	
07 21 00	Thermal Protection Thermal Insulation	
07 21 00 07 29 13	Thermal Protection Thermal Insulation Pre-Engineered Building Insulation Sealant	
07 21 00 07 29 13 07 92 00	Thermal Protection Thermal Insulation Pre-Engineered Building Insulation Sealant	
07 21 00 07 29 13 07 92 00 DIVISION 8 - OPENINGS	Thermal Protection Thermal Insulation Pre-Engineered Building Insulation Sealant Joint Sealant Doors and Frames	
07 21 00 07 29 13 07 92 00 DIVISION 8 - OPENINGS 08 11 13	Thermal Protection Thermal Insulation Pre-Engineered Building Insulation Sealant Joint Sealant Doors and Frames Hollow Metal Doors and Frames (Commercial) Specialty Doors and Frames	

08 71 00	Hardware Door Hardware
08 80 00	Glazing Glazing
DIVISION 9 - FINISHES	
09 91 00 09 29 00	Painting and Coating Painting Gypsum Board
DIVISION 10 - SPECIALTIES	
10 14 19	Information Specialties Dimensional Letter Signage and Plaques
10 44 00	Interior Specialties Safety Specialties
DIVISION 13 - SPECIAL CONSTR	RUCTION
13 34 00	Special Structures Fabricated Engineered Structures
DIVISION 22 – MECHANICAL	
DIVISION 22 – MECHANICAL 22 05 00 22 05 10 22 05 12 22 05 13 22 05 19 22 05 23 22 05 29 22 07 00 22 11 16 22 11 19 22 13 16 22 33 00 22 40 00 23 05 00 23 05 10 23 05 10 23 05 12 23 05 13 23 05 23 23 05 29 23 05 93 23 07 00 23 09 93 23 11 19 23 11 26 23 21 13 23 21 23	Basic Mechanical Requirements for Plumbing Mechanical Related Work for Plumbing Plumbing Pipes and Pipe Fittings Electrical Provisions of Mechanical Work for Plumbing Meters and Gages for Plumbing Plumbing Valves Hangers and Supports for Plumbing Mechanical Insultation for Plumbing Domestic Water Piping Piping Specialties for Plumbing Sanitary Waste and Vent Piping Water Heaters Plumbing Fixtures Basic Mechanical Requirements for HVAC Mechanical Related Work for HVAC Mechanical Related Work for HVAC HVAC Pipes and Pipe Fittings Electrical Provisions of Mechanical Work for HVAC Meters and Gages for HVAC HVAC Valves Hangers and Supports for HVAC Testing, Adjusting and Balancing for HVAC Mechanical Insultation for HVAC Sequence of Operation for HVAC Cas System Hydronic Piping Hydronic Piping Hydronic Pumps
23 21 23 23 31 13 23 33 00 23 34 23 23 37 13 23 52 23 23 55 10 23 83 16	Metals Ducts Air Ductwork Accessories HVAC Power Ventilators Diffusers, Registers and Grillers Boilers Fuel Fired Heaters Radiant Floor Heating Systems

VOLUME 2

DIVISION 26 – ELECTRICAL

26 00 00 26 00 10 26 05 00 26 05 19 26 05 26 26 05 29 26 05 33 26 05 34 26 05 53 26 24 12 26 24 16	Electrical General Electrical Provisions for Mechanical Work Common Work Results for Electrical Medium Voltage Cables Grounding and Bonding for Electrical Systems Hangers and Supports for Electrical Systems Conduits and Raceways Raceways and Boxes for Electrical Systems Identification for Electrical Systems Service and Distribution Panelboards
26 27 26 26 28 16 26 29 13 26 51 00	Wirings Devices Enclosed Switches and Circuit Breakers Enclosed Controllers Interior Lighting
DIVISION 31 - EARTHWORK	
31 22 10 31 22 20 31 23 33 31 25 10	Earth Moving Site Grading Earthwork for Building Sites Trench Excavation and Backfill Stormwater Management
31 34 10 31 41 40	Earthwork Methods Geosynthetic Installation Structural Shoring
DIVISION 32 - EXTERIOR IMPROV	EMENTS
32 11 22	Bases, Ballasts, and Paving Base Courses Aggregate Base
32 12 13 32 12 16	Flexible Paving Bituminous Tack Coat Plant-Mixed Asphalt Pavement
32 18 20	Paving Specialties Walks
32 92 00	Landscaping Stabilized Turf Establishment
DIVISION 33 - UTILITIES	
33 36 10	Sanitary Sewage Utilities Septic Systems
FAA TECHNICAL SPECIFICATION	S
Item C-105	Part 2 – General Construction Items Mobilization
Item P-152	Part 3 – Site Work Excavation, Subgrade, and Embankment
Table of Contents 00 01 10 - 4	

Item L-115

Part 13 – Lighting Installation Electrical Manholes and Junction Structures

Item T-901 Item T-905 Part 14 – Turf Establishment Seeding Topsoil

APPENDIX A

Geotechnical Exploration Report

APPENDIX B

Prevailing Wage Rates

APPENDIX C

Equal Employment Opportunity Special Provisions (EEO)

APPENDIX D

Certification of Exemption, Form ST3

APPENDIX E

Direct Deposit

APPENDIX F Subsurface Septic Treatment System Forms – St. Louis County, MN

APPENDIX G

City of Duluth Construction Standard Specifications

APPENDIX H Safety Plan and Compliance Narrative (SPCN)

APPENDIX I

MnDOT DBE Special Provision

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SECTION 01 71 23

FIELD ENGINEERING

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Field engineering provided by Contractor.
 - 2. Horizontal and vertical control points (By Engineer)
 - 3. Construction Staking (By Contractor)
 - 4. Quantity surveys and computations (By Contractor)
- B. Method of Measurement: All field engineering will be measured as shown on the Bid Form.
- C. Method of Payment: All field engineering will be paid as shown on the Bid Form.

1.02 SUBMITTALS

- A. Submit name and qualifications of surveyor that will perform Work.
- B. Submit log or other records of all survey Work completed.
- C. Submit copies of measurement and calculations for quantity surveys.

1.03 QUALITY ASSURANCE

A. All Work in this Section shall be under the direction of a surveyor registered in the State in which the Project is located.

1.04 SITE CONDITIONS

- A. Engineer shall establish necessary horizontal and vertical control. Contractor shall provide the Engineer 3-working days' of notice for staking control on project.
- B. Engineer will provide the Contractor with survey files for verification purposes (upon execution of the CAD Release of Liability Form to be provided by Engineer)
- C. Benchmarks and control points are identified on the Drawings.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

3.01 EXAMINATION

- A. Contractor shall verify locations of control points prior to start of Work and notify Engineer in writing that Contractor concurs with the control points.
- B. Contractor shall relate information given on the Drawings to existing Site conditions.
- C. Contractor shall promptly advise Engineer of any discrepancies.

3.02 PREPARATION

- A. Contractor shall protect and preserve all benchmarks and control points. In case of negligence on the part of the Contractor or their employees, resulting in the destruction of any horizontal and vertical control, the resulting costs will be deducted as a liquidated damage against the Contractor.
- B. Advise Engineer of the required relocation of any reference points due to grade changes or other reasons.
- C. Replace dislocated reference points based on original survey control.

3.03 SURVEY REQUIREMENTS

- A. Construction Staking (by Contractor):
 - 1. Establish locations, layouts, lines and elevations by instrumentation and similar methods for the project.
 - 2. Tolerances:
 - a. Horizontal Distances: 1/7500
 - b. Horizontal Angles: 0 degrees 00 minutes 00 feet 01 inches
 - c. Elevation:

$0.050 ft.x \sqrt{length (miles)}$

- 3. Maintain log or record book indicating all Work completed for review and submittal.
- 4. Laser, GPS, string line, or other automatic control shall be checked with temporary control as necessary. In the case of error, on the part of the Contractor, their surveyor, employees or subcontractors, resulting in established grades, alignment or grade tolerances that do not concur with those specified or shown on the plans, the Contractor is solely responsible for correction, removal, replacement and all associated costs at no additional cost to the Owner.
- B. Quantity Surveys (By Contractor):
 - 1. Perform surveys of the area specified below to determine final quantities for the project:
 - a. Subgrade Elevations (Common & Borrow Excavation, Structure Excavation, Structural Backfill)
 - b. Aggregate Base Course Elevations
 - c. Sidewalk, Retaining Wall and Pavement Boundaries.
 - Excavation or field grading quantities outside of the grading limits shall be determined quantities from a topographic survey from before & after the work. The survey data shall be submitted to the engineer.
 - 3. Submit copies of all measurements and calculations to Engineer for review.
- C. As-Built Surveys (by Contractor):
 - 1. Perform final as-built survey of the site grading as well as capturing building corners, final floor elevations, pavement limits, concrete sidewalk, septic holding tank location, and utility service routes.
 - 2. Surveys shall include pipe sizes, lengths installed, and depths of pipes. Record accurate locations of services installed for this project.
 - 3. Provide Engineer with survey files in PDF, csv, and CAD format.
 - 4. As-Built Surveys completed by the Contractor will be used to verify Quantities installed, such as utility routes, silt fence, and other lineal footage items.
- D. Certification Surveys (by Contractor)
 - 1. Provide certification survey of existing conditions prior to construction commencing. Survey shall incorporate lease area.
 - 2. Provide certification survey of the finished floor of the building. Certification shall be submitted to the City of Duluth.

END OF SECTION

SECTION 32 92 00

STABILIZED TURF ESTABLISHMENT

PART 1 GENERAL

1.01 SUMMARY

- A. Provide the following:
 - 1. Accessories including, but not limited to:
 - a. Weed barrier.
 - b. Edging.
 - c. Rock.
- B. Method of Measurement: Stabilized Turf Establishment: Measure by area in square feet.
- C. Basis of Payment:
 - 1. Payment for Stabilized Turf Establishment shall be at the Contract Unit Price as listed on the Bid Form. All associated Work items, shall be considered incidental.
 - 2. No separate payment will be made for supplying and placing edging.
 - 3. No separate payment will be made for supplying and placing weed barrier.
 - 4. No separate payment will be made for supplying and placing rock.

1.02 SUBMITTALS

- A. Refer to Section 01 33 00.
 - 1. Product Data:
 - a. For each type of product indicated.
- B. Provide with Product Data: Buy-American Certification and/or Build America, Buy America (BABA) for manufactured goods of products supplied, steel or iron products, if applicable.
- C. Qualification Data: For installer.

1.03 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Installer: A qualified installer whose work has resulted in successful lawn establishment.
- B. Substitutions: Refer to Section 01 25 13.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Rock: Place in an area not to disruption construction or airfield operations.

1.05 PROJECT CONDITIONS

- A. Existing Conditions:
 - 1. Inspect the Project prior to installation.
 - 2. If conditions do not meet approval, notify Engineer.
 - 3. Proceeding without notification implies acceptance of conditions.

1.06 WARRANTY

A. Warranty for a period of 1 year after date of substantial completion against defects, including death and unsatisfactory growth, except for defects resulting from neglect by Owner, abuse or damage by others, or unusual phenomena or incidents which are beyond installer's control.

PART 2 PRODUCTS

2.01 LANDSCAPE ACCESSORIES

- A. Rock:
 - 1. Rock shall be MN River Rock, Lake Superior River Rock or WI River Rock.
- B. Weed Barrier:
 - 1. 6-mil black polyethylene film **OR** Filtration/Separation Fabric: Water permeable filtration fabric of fiberglass or polypropylene fabric.
- C. Edging:
 - 1. 4" high edging.
 - 2. Edging shall be made of steel material.
 - 3. Anchors shall be provided to secure edging to ground, per the manufacture's recommendations.

PART 3 EXECUTION

3.01 PERMENANT TURF ESTABLISHMENT WORK

- A. Permanent Layout:
 - 1. Install the permanent turf establishment at the location shown on the Plans. Layout shall size and shape shall be coordinated with the Airport prior to installation.
- B. Weed Barrier:
 - 1. Lay film continuously over compacted subgrade prior to placing rock. Overlap edges 4 inches at joints between sheets. Secure to ground with nails to prevent rolling or movement when placing landscape rock.
- C. Edging:
 - 1. Install edging along the perimeter of the area prior to placement of rock.
 - 2. Edging shall be installed per the manufacturer's recommendations.
- D. Rock:
 - 1. Weed barrier must be placed prior to placing of rock.
 - 2. Install rock to a depth of 4-inches.

3.02 CLEANUP, MAINTENANCE, AND PROTECTION

- A. During work, keep pavements clean and work area in an orderly condition.
- B. Promptly remove soil and debris created by lawn work from paved areas.
- C. Clean wheels of vehicles before leaving site to avoid tracking soil onto roads, walks, or other paved areas.
- D. Disposal:
 - 1. Remove waste and foreign materials, including weeds, stones, soil cores, grass, vegetation, and sod and legally dispose of them off Owner's property.
 - 2. Divert from landfill disposal whenever possible.

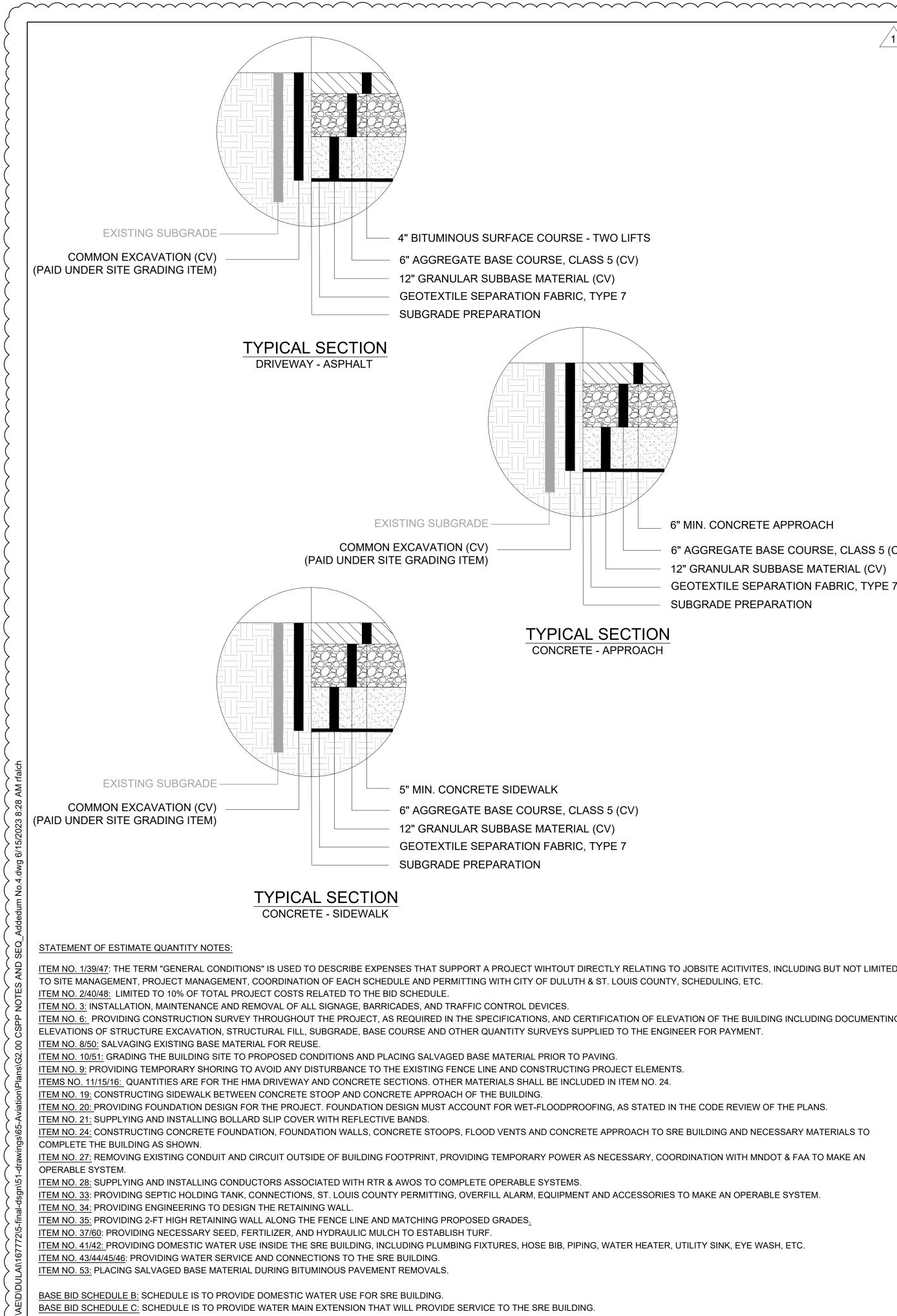
3. Topsoil containing foreign materials resulting from Contractor's operations, including oil drippings, fuel spills, shall be disposed of legally.

3.03 INSPECTION AND ACCEPTANCE

- A. Inspection: When work is completed, including maintenance, Engineer will, upon request, inspect to determine acceptability.
- B. Rejected Work: When inspected work does not comply with requirements, replace rejected work and continue specified maintenance until reinspected by Engineer and found to be acceptable.

END OF SECTION

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		STATEMENT OF ESTIMATED QUANTITIES		ESTIMATED	FINAL) KD K
NE NO.	ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY		55110 90.2000
SE BID S	SCHEDULE A	A - CONSTRUCT SRE BUILDING & SITE WORK (FAA ELIGIBLE)			}	/ADNAIS /UL, MN . E: 651.4
1	GENERAL	GENERAL CONDITIONS	LS	1	\$	3535 \ 357 PA
2	C-105	MOBILIZATION (10% OF TOTAL SCHEDULE COST ALLOWED)	LS	1	}	
3	70-08	TRAFFIC PROVISIONS/AIRPORT SECURITY & DEVICES/PHASING	LS	1		
4	70-08	ORANGE CONSTRUCTION FENCE	LF	300	}	
5	01 55 15	MAINTENANCE AND RESTORATION OF AIRPORT HAUL ROUTES	LS	1	<u>```</u>	
6 7	01 71 23	FIELD ENGINEERING SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LS LF	60	X	
8	02 41 33	REMOVING BITUMINOUS PAVEMENT (3 - 4" THICK)	SY	75	X	
9	31 41 40	STRUCTURAL SHORING (TEMPORARY)	LF	50		
10	31 22 10	SITE GRADING	LS	1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
11	31 22 10	GRANULAR SUBBASE MATERIAL (CV)	CY	65	〈	
12	31 25 10	ROCK CONSTRUCTION ENTRANCE (INCLUDES MAINTENANCE AND REMOVAL)	EACH	1		
13 14	31 25 10 31 25 10	SILT FENCE, TYPE PRESASSEMBLED (INCLUDES MAINTENANCE AND REMOVAL) SEDIMENT CONTROL LOG (INCLUDES MAINTENANCE AND REMOVAL)	LF LF	500 300		OR OT STATE
14	31 34 10	GEOTEXTILE INSTALLATION, TYPE 7 (SEPARATION FABRIC)	SY	200		
16	32 11 22	AGGREGATE BASE, CLASS 5 (CV)	CY	35	}}	PLAN, SPECIFICA TLAN, SPECIFICA E ON UNDER MY DER THE LAWS O
17	32 12 13	BITUMINOUS TACK COAT	GAL	15	ý	PLAN, SF ME OR UN A DULY L
18	32 12 16	BITUMINOUS PAVEMENT (4" THICK - 2 LIFTS)	TON	50		AT THIS (ED BY A AT I AM .
19	32 18 20	5-INCH CONCRETE SIDEWALK (5-FT WIDE)	SY	20	ý	TIFY TH. PREPAR AND TH. IL ENGIN
20 21	1001	FOUNDATION ENGINEERING BOLLARDS (INCLUDING SLIP COVER W/ REFLECTIVE BANDS)	LS EACH	1 4		I HEREBY CERT REPORT WAS F SUPERVISION PROFESSIONAL
21	31 22 20	STRUCTURE EXCAVATION, CLASS U (CV)	CY	500		CIPER SUPEF PROFE
23	31 22 20	ENGINEERED STRUCTURAL BACKFILL (CV)	CY	500	X	
24	13 34 00	PRE-ENGINEERED METAL BUILDING CONSTRUCTION	LS	1		
25	MECH.		LS	1		
26 27	ELEC.	BUILDING ELECTRICAL AND UTILITIES ELECTRICAL DEMOLITION	LS	1		
27	ELEC.	FURNISH & INSTALL ELECTRICAL POWER CONDUIT FOR RTR & AWOS (INCLUDING CONDUCTORS)	LS LF	165	────┤ {⋨	
29	L-115-5.1	FURNISH & INSTALL COMPOSITE HANDHOLES (L-867, 13"X 24"X 24")	EACH	2		
30	2504	SEWER TRACER BOX	EACH	1		HARBO ONS1
31	2504	4" PVC SANITARY SERVICE PIPE (SDR 35)	LF	50	>>	U HAF
32	2504		EACH	1	<	
33 34	33 36 10 3001	FURNISH & INSTALL 2,000-GALLON SEPTIC HOLDING TANK (INCLUDING EQUIPMENT) RETAINING WALL ENGINEERING	LS	1	{{	202 S
35	3002	PREFABRICATED MODULAR GRAVITY BLOCK WALL	SF	200		
36	32 90 00	STABILIZED TURF ESTABLISHMENT (INCLUDES ROCK, FABRIC, AND EDGING)	SF	100	>>	
37	T-901-5.1	TURF ESTABLISHMENT (INCLUDES FERTILIZER, SEED, MULCHING AND STABLIZATION)	LS	1		
38	T-905-5.1	SELECT TOPSOIL BORROW (SALVAGED) (CV)	CY	150		
SE BID S	SCHEDULE B	B - CONSTRUCT BUILDING PLUMBING AND ASSOCIATED FIXTURES (FAA ELIGIBLE))
39	GENERAL	GENERAL CONDITIONS	LS	1	52	
40	C-105	MOBILIZATION (10% OF TOTAL SCHEDULE COST ALLOWED)	LS	1		
41	MECH.	BUILDING PLUMBING	LS	1		
42	MECH.	PLUMBING FIXTURES (EYE WASH, UTILITY SINK, HOSE BIBS AND ASSOCIATED PIPING AND CONNECTIONS TO THESE ITEMS)	LS	1	{	
43	2504.602	8" x 1-1/2" TAPPING TEE W/ ELECTROFUSION SADDLE	EACH	1		167772 N/A 10.2023 RMF
44	2504.602	1-1/2" CURB STOP AND BOX	EACH	1	X	Al_16
45	2504.602	WATER TRACER BOX	EACH	1		
46	2504.603	1-1/2" HDPE SDR 11 SERVICE PIPE	LF	40) Öz
SE BID S	SCHEDULE C	- CONSTRUCT WATER MAIN EXTENSION (FAA INELIGIBLE)				
47	GENERAL	GENERAL CONDITIONS	LS	1		
47	C-105	MOBILIZATION (10% OF TOTAL SCHEDULE COST ALLOWED)	LS	1		SEH FILE NO STATE PRO ISSUE DATE
49	02 41 33	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LF	70		
50	02 41 33	REMOVING BITUMINOUS PAVEMENT (3 - 4" THICK)	SY	50	Śź) ш
51	31 22 10	SITE GRADING	LS	1		
52	31 22 10	GRANULAR SUBBASE MATERIAL (CV)	CY	20	{}	DTES
53	32 11 22	AGGREGATE BASE, CLASS 5 (CV) (SALVAGED MATERIAL)	CY	15	🏹	
54 55	32 12 13 32 12 16	BITUMINOUS TACK COAT BITUMINOUS PAVEMENT (4" THICK - 2 LIFTS)	GAL TON	5 20	{	RAL STAT
55 56	2504.602	CONNECT TO EXISTING WATER MAIN (INCLUDING D.I. FITTINGS)	EACH	1		
57	2504.602	8" GATE VALVE AND BOX (INCLUDING D.I. FITTINGS)	EACH	1	〈〉	SHEET GENE AND
58	2504.602	8" DUCTILE IRON 90 DEGREE BEND (INCLUDING D.I. FITTINGS)	EACH	3		SHE
59	2504.603	8" DIPS HDPE WATER MAIN SDR 11	LF	40	{<	
		8" DIPS HDPE WATER MAIN SDR 11 (HORIZONTAL DIRECTIONAL DRILL)			• •	G2 G2

6" MIN. CONCRETE APPROACH

6" AGGREGATE BASE COURSE, CLASS 5 (0 12" GRANULAR SUBBASE MATERIAL (CV) GEOTEXTILE SEPARATION FABRIC, TYPE SUBGRADE PREPARATION

