

January 21, 2020

To: Plan Holders for Improvements to the
Washington County Airport
Mineral Point, Missouri
MoDOT Project No. 19-060A-1

Transmitted herewith is Addendum **No. 3** to the Issued for Bid Contract Documents, Specifications and Plans dated December 20, 2019 for Improvements to the Washington County Airport.


Schedule I: Access Road Relocation

Schedule II: Obstruction Removal

Schedule III: Existing Access Removal

Sincerely,

Jviation, Inc.



Mark Lovato, P.E.
Project Manager



**ADDENDUM NO. 3
TO
CONTRACT DOCUMENTS, SPECIFICATIONS AND PLANS
FOR IMPROVEMENTS TO THE
WASHINGTON COUNTY AIRPORT
MINERAL POINT, MISSOURI
MODOT PROJECT NO. 19-060A-1**

To All Bidders: 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 January 21, 2020:

1. CONTRACT DOCUMENTS/SPECIFICATIONS

Contract Documents – Notice to Bidders

Section: Contract Work Items, Summary of Approximate Quantities table on page Section 1-2

Revision: This table was updated to reflect the removal of Schedule II P-151 Clearing and Grubbing.

Justification: This revision was made to reflect that the project will focus on the removal of trees that are higher than the approach surface versus the clearing of all small brush.

Technical Specification – P-151 Clearing and Grubbing

Section: 151-1.1c Tree Removal

Revision: Removal of “Tree Removal shall consist of removing trees to six inches below ground and grade to cover”.

Justification: This revision was made to lower the price of the bids.

Technical Specification – P-151 Clearing and Grubbing

Section: 151-2.2 Clearing

Revision: Addition of removing the trees that have the potential to grow over 30 feet, to treat the stumps to prevent re-growth, and to cover the stump with dirt or mulch.

Justification: This revision was made to clarify that the area needs to be cleared of trees busting the approach or that has potential to. It was also made to specify that the stumps shall be treated, and they may be covered with mulch.

Contract Documents – Proposal/Forms – Proposal Form

Section: Bid Proposal Schedule II

Revision: Removal of the Schedule II P-151 Clearing and Grubbing quantity.

Justification: This revision was made to reflect that the project will focus on the removal of trees that are higher than the approach surface versus the clearing of all small brush.

2. PLANS

G005 - (6 of 32) Summary of Approximate Quantities table format has changed.

Justification: The table in the quantity sheet has been updated to match the bid proposal Schedule II alternates.

**** END OF ADDENDUM NO. 3 ****

SUMMARY OF APPROXIMATE QUANTITIES					
Item No.	Item Description	Unit	Schedule I	Schedule II	Schedule III
C-105	Mobilization	LS	1	1	1
C-102a	Erosion Control Log	LF	850	0	0
C-102b	Ditch Check	EA	5	0	0
C-102c	Culvert Protection	EA	1	0	0
P-101a	Asphalt Pavement Removal - Full Depth	SY	0	0	134
P-101b	Asphalt Pavement Removal - Butt Joint	SY	80	0	0
P-101c	Removal of Structures/Foundations	LS	1	0	0
P-151a	Clearing and Grubbing	AC	4.5	0.0	0.0
P-152a	Embankment In-Place	CY	12,465	0	0
P-152b	Embankment In-Place from Off-site	CY	2,035	0	0
F-160a	Fence, Class B (4-Strand Barb Wire, Wood Posts)	LF	0	0	85
MO-209a	Crushed Aggregate Base Course	SY	1,550	0	0
MO-401Fa	Bituminous Asphalt Pavement	TON	630	0	0
P-603a	Emulsified Asphalt Tack Coat	GAL	430	0	0
MO-609a	Type 4 Rock Ditch Liner	CY	65	0	0
D-701a	24-inch Reinforced Concrete Pipe	LF	100	0	0
T-901a	Seeding with Hydromulch	AC	4.5	11.3	0
MO-903a	Stop Sign, 36 in. (R1-1)	EA	1	0	0
MO-903b	12 GA. Perforated Square Steel Tube Post, 2.5 in., with 7 GA. Post Anchor and Concrete Footing (for stop sign)	EA	1	0	0
MO-903c	Road Closed, 30 in. x 48 in. (R11-2) with fasteners	EA	0	0	2
MO-903d	Relocate Existing Airport Sign Assembly on two wooden Breakaway Posts	LS	1	0	0

SCHEDULE II ALTERNATE NO. 1					
P-151b	Tree Topping (Zone 1 and 2)	AC	0.0	6.0	0.0
P-151c	Tree Topping (Zone 3 and 4)	AC	0.0	4.0	0.0
P-151d	Tree Topping (Zone 5)	AC	0.0	1.3	0.0
P-151e	Tree Clearing	AC	0	0.7	0

SCHEDULE II ALTERNATE NO. 2					
P-151e	Tree Clearing	AC	0	12	0

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Contract Time. The owner has established a contract perform time of 142 Calendar Days 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 County of Washington, 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.

ITEM P-151 CLEARING AND GRUBBING

DESCRIPTION

151-1.1 This item shall consist of clearing or clearing and grubbing, including the disposal of materials, for all areas within the limits designated on the plans or as required by the Resident Project Representative (RPR).

- a. **Clearing** shall consist of the cutting and removal of all trees, stumps, brush, logs, hedges, the removal of fences and other loose or projecting material from the designated areas. The grubbing of stumps and roots will not be required.
- b. **Clearing and grubbing** shall consist of clearing the surface of the ground of the designated areas of all trees, stumps, down timber, logs, snags, brush, undergrowth, hedges, heavy growth of grass or weeds, fences, structures, debris, and rubbish of any nature, natural obstructions or such material which in the opinion of the RPR is unsuitable for the foundation of strips, pavements, or other required structures, including the grubbing of stumps, roots, matted roots, foundations, and the disposal from the project of all spoil materials resulting from clearing and grubbing.
- c. **Tree Removal.** The removal of all the trees of this classification shall be in accordance with the requirements for the particular area being cleared.

CONSTRUCTION METHODS

151-2.1 GENERAL. The areas denoted on the plans to be “topped” or cleared and grubbed shall be staked on the ground by the Contractor as indicated on the plans.

The removal of existing structures and utilities required to permit orderly progress of work shall be accomplished by local agencies, unless otherwise shown on the plans. Whenever a telephone pole, pipeline, conduit, sewer, roadway, or other utility is encountered and must be removed or relocated, the Contractor shall advise the RPR who will notify the proper local authority or owner to secure prompt action.

151-2.1.1 DISPOSAL. All materials removed by clearing or by clearing and grubbing shall be disposed of outside the Airport’s limits at the Contractor’s responsibility, except when otherwise directed by the RPR. As far as practicable, waste concrete and masonry shall be placed on slopes of embankments or channels. When embankments are constructed of such material, this material shall be placed in accordance with requirements for formation of embankments. Any broken concrete or masonry that cannot be used in construction and all other materials not considered suitable for use elsewhere, shall be disposed of by the Contractor. In no case, shall any discarded materials be left in windrows or piles adjacent to or within the airport limits. The manner and location of disposal of materials shall be subject to the approval of the RPR and shall not create an unsightly or objectionable view. When the Contractor is required to locate a disposal area outside the airport property limits, the Contractor shall obtain and file with the RPR permission in writing from the property owner for the use of private property for this purpose.

151-2.1.2 BLASTING. Blasting shall not be allowed.

151-2.2 CLEARING. The Contractor shall clear the staked or indicated area of all materials as indicated on the plans. The Contractor shall clear the area of all trees which could potentially grow over 30 feet tall as shown on the Missouri Department of Conservation’s tree growth information website (<https://mdc.mo.gov/trees-plants/tree-seedlings/tree-growth-information>) or other reputable source as approved by the Engineer. Trees that are clearly identified as a species not to exceed 30 feet tall, brush, and

52 grass should remain where possible to minimize soil disturbance. If the tree species cannot be positively
53 identified, it should be included in the clearing. Trees unavoidably falling outside the specified clearing limits
54 must be cut up, removed, and disposed of in a satisfactory manner. To minimize damage to trees that are to be
55 left standing, trees shall be felled toward the center of the area being cleared. The Contractor shall preserve and
56 protect from injury all trees not to be removed. The trees, stumps, and brush shall be cut flush with the original
57 ground surface. The stump shall be treated to prevent re-growth. The stumps shall be covered with dirt or
58 mulch. The grubbing of stumps and roots will not be required.

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60 Fences shall be protected as directed by the RPR. Fence is to remain in place. If the fence is damaged by the
61 contractor, the contractor shall repair the fence at his own cost.

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63 **151-2.3 CLEARING AND GRUBBING.** In areas designated to be cleared and grubbed, all stumps, roots,
64 buried logs, brush, grass, and other unsatisfactory materials as indicated on the plans, shall be removed, except
65 where embankments exceeding 3-1/2 feet (105 cm) in depth will be constructed outside of paved areas. For
66 embankments constructed outside of paved areas, all unsatisfactory materials shall be removed, but sound trees,
67 stumps, and brush can be cut off flush with the original ground and allowed to remain. Tap roots and other
68 projections over 1-1/2 inches (38 mm) in diameter shall be grubbed out to a depth of at least 18 inches (0.5 m)
69 below the finished subgrade or slope elevation.

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71 Any buildings and miscellaneous structures that are shown on the plans to be removed shall be demolished or
72 removed, and all materials shall be disposed of by removal from the site. The cost of removal is incidental to
73 this item. The remaining or existing foundations, wells, cesspools, and like structures shall be destroyed by
74 breaking down the materials of which the foundations, wells, cesspools, etc., are built to a depth at least 2 feet
75 (60 cm) below the existing surrounding ground. Any broken concrete, blocks, or other objectionable material
76 that cannot be used in backfill shall be removed and disposed of at the Contractor's expense. The holes or
77 openings shall be backfilled with acceptable material and properly compacted.

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79 All holes in embankment areas remaining after the grubbing operation shall have the sides of the holes flattened
80 to facilitate filling with acceptable material and compacting as required in Item P-152. The same procedure shall
81 be applied to all holes remaining after grubbing in areas where the depth of holes exceeds the depth of the
82 proposed excavation.

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84 Fences shall be protected as directed by the RPR. Fence is to remain in place. If the fence is damaged by the
85 contractor, the contractor shall repair the fence at his own cost.

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87 **151-2.3 TREE TOPPING.** Trees shall be topped to the elevations, in the areas, as shown on the plans.

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89 Fences and structures not noted to be removed shall be protected as directed by the RPR. Any damage to fence
90 or structures to remain in place that are damaged by the contractor shall be repaired by the contractor at the
91 contractor's expense.

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94 **METHOD OF MEASUREMENT**

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96 **151-3.1** The quantities of clearing and grubbing as shown by the limits on the plans shall be the number of acres
97 or fractions thereof of land specifically cleared and grubbed.

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99 **151-3.2** The quantities of tree topping as shown by the limits on the plans shall be the number of acres or
100 fractions thereof of area of trees specifically topped.

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103 **BASIS OF PAYMENT**

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105 **151-4.1** Payment shall be made at the contract unit price per acre for clearing and grubbing. This price shall be
106 full compensation for furnishing all materials and for all labor, equipment, tools, and incidentals necessary to
107 complete the item.

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109 **151-4.2** Payment shall be made at the contract unit price per acre or fractions thereof for tree topping. This
110 price shall be full compensation for furnishing all materials and for all labor, equipment, tools, and incidentals
111 necessary to complete the item.

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113 Payment will be made under:

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115	Item P-151a	Clearing and Grubbing – per acre or fractions thereof
116	Item P-151b	Tree Topping (Zone 1 and 2) - per acre or fractions thereof
117	Item P-152c	Tree Topping (Zone 3 and 4) – per acre or fractions thereof
118	Item P-152d	Tree Topping (Zone 5) – per acre or fractions thereof
119	Item P-152e	Tree Removal – per acre or fractions thereof

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****END OF ITEM P-151****

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BID PROPOSAL SUMMARY

Bidder Name: _____

SCHEDULE I TOTAL \$ _____

SCHEDULE II TOTAL \$ _____

ALTERNATE NO. 1 TOTAL \$ _____

ALTERNATE NO. 2 TOTAL \$ _____

SCHEDULE III TOTAL \$ _____

TOTAL SCHEDULES I, II, III AND ALTERNATE NO. 1 \$ _____

TOTAL SCHEDULES I, II, III AND ALTERNATE NO. 2 \$ _____

Bidder has examined the proposed site and is familiar with all site conditions.

Signature

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SCHEDULE I						
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
C-105a	Mobilization	at the unit price of: _____ dollars and _____ cents.	LS	1	\$	\$
C-102a	Erosion Control Log	at the unit price of: _____ dollars and _____ cents.	LF	850	\$	\$
C-102b	Ditch Check	at the unit price of: _____ dollars and _____ cents.	EA	5	\$	\$
C-102c	Culvert Protection	at the unit price of: _____ dollars and _____ cents.	EA	1	\$	\$
P-101b	Asphalt Pavement Removal - Butt Joint	at the unit price of: _____ dollars and _____ cents.	SY	80	\$	\$
P-101c	Removal of Structures/Foundations	at the unit price of: _____ dollars and _____ cents.	LS	1	\$	\$
P-151a	Clearing and Grubbing	at the unit price of: _____ dollars and _____ cents.	AC	4.5	\$	\$
P-152a	Embankment In-Place	at the unit price of: _____ dollars and _____ cents.	CY	12,465	\$	\$
P-152b	Embankment In-Place from Off-site	at the unit price of: _____ dollars and _____ cents.	CY	2,035	\$	\$
MO-209a	Crushed Aggregate Base Course	at the unit price of: _____ dollars and _____ cents.	SY	1,550	\$	\$
MO-401Fa	Bituminous Asphalt Pavement	at the unit price of: _____ dollars and _____ cents.	TON	630	\$	\$
P-603a	Emulsified Asphalt Tack Coat	at the unit price of: _____ dollars and _____ cents.	GAL	430	\$	\$
MO-609a	Type 4 Rock Ditch Liner	at the unit price of: _____ dollars and _____ cents.	CY	65	\$	\$
D-701a	24 inch Reinforced Concrete Pipe	at the unit price of: _____ dollars and _____ cents.	LF	100	\$	\$
T-901a	Seeding with Hydromulch	at the unit price of: _____ dollars and _____ cents.	AC	4.5	\$	\$
MO-903a	Stop Sign, 36 in. (R1-1)	at the unit price of: _____ dollars and _____ cents.	EA	1	\$	\$
MO-903b	12 GA. Perforated Square Steel Tube Post, 2.5 in., with 7 GA. Post Anchor and Concrete Footing (for stop sign)	at the unit price of: _____ dollars and _____ cents.	EA	1	\$	\$
MO-903d	Relocate Existing Airport Sign Assembly on two wooden Breakaway Posts	at the unit price of: _____ dollars and _____ cents.	LS	1	\$	\$

SCHEDULE I TOTAL \$ _____

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SCHEDULE II						
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
C-105a	Mobilization	at the unit price of: _____ dollars and _____ cents.	LS	1	\$	\$
T-901a	Seeding with Hydromulch	at the unit price of: _____ dollars and _____ cents.	AC	11.3	\$	\$

SCHEDULE II TOTAL \$ _____

ALTERNATE NO. 1						
P-151b	Tree Topping (Zone 1 and 2)	at the unit price of: _____ dollars and _____ cents.	AC	6	\$	\$
P-151c	Tree Topping (Zone 3 and 4)	at the unit price of: _____ dollars and _____ cents.	AC	4.0	\$	\$
P-151d	Tree Topping (Zone 5)	at the unit price of: _____ dollars and _____ cents.	AC	1.3	\$	\$
P-151e	Tree Clearing	at the unit price of: _____ dollars and _____ cents.	AC	0.7	\$	\$

ALTERNATE NO. 1 TOTAL \$ _____

ALTERNATE NO. 2						
P-151e	Tree Clearing	at the unit price of: _____ dollars and _____ cents.	AC	12.0	\$	\$

ALTERNATE NO. 2 TOTAL _____

SCHEDULE II + ALTERNATE NO. 1 _____

SCHEDULE II + ALTERNATE NO. 2 _____

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SCHEDULE III

Item No.	Description		Units	Estimated Quantity	Unit Price	Total
C-105a	Mobilization	at the unit price of: _____ dollars and _____ cents.	LS	1	\$	\$
P-101a	Asphalt Pavement Removal - Full Depth	at the unit price of: _____ dollars and _____ cents.	SY	134	\$	\$
F-160a	Fence, Class B (4-Strand Barb Wire, Wood Posts)	at the unit price of: _____ dollars and _____ cents.	LF	85	\$	\$
T-901a	Seeding with Hydromulch	at the unit price of: _____ dollars and _____ cents.	AC	0.1	\$	\$
MO-903c	Road Closed, 30 in. x 48 in. (R11-2) with fasteners	at the unit price of: _____ dollars and _____ cents.	EA	2	\$	\$

SCHEDULE III TOTAL \$ _____

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SUMMARY OF APPROXIMATE QUANTITIES

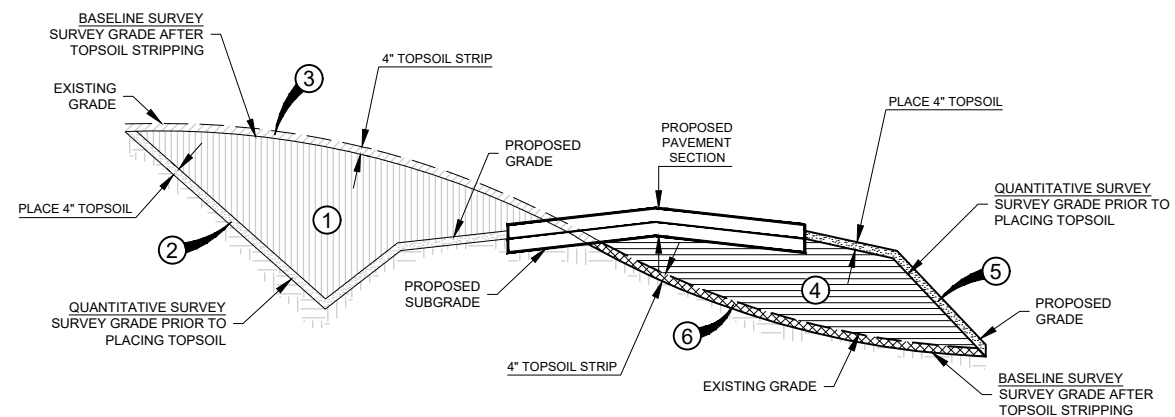
ITEM NO.	ITEM DESCRIPTION	UNITS	SCHEDULE I		SCHEDULE II		SCHEDULE III	
			ESTIMATE	AS BUILT	ESTIMATE	AS BUILT	ESTIMATE	AS BUILT
C-105a	Mobilization	LS	1		1		1	
C-102a	Erosion Control Log	LF	850		0		0	
C-102b	Ditch Check	EA	5		0		0	
C-102c	Culvert Protection	EA	1		0		0	
P-101a	Asphalt Pavement Removal - Full Depth	SY	0		0		134	
P-101b	Asphalt Pavement Removal - Butt Joint	SY	80		0		0	
P-101c	Removal of Structures/Foundations	LS	1		0		0	
P-151a	Clearing and Grubbing	AC	4.5		0.0		0	
P-152a	Embankment In-Place	CY	12,465		0		0	
P-152b	Embankment In-Place from Off-site	CY	2,035		0		0	
F-160a	Fence, Class B (4-Strand Barb Wire, Wood Posts)	LF	0		0		85	
MO-209a	Crushed Aggregate Base Course	SY	1,550		0		0	
MO-401Fa	Bituminous Asphalt Pavement	TON	630		0		0	
P-603a	Emulsified Asphalt Tack Coat	GAL	430		0		0	
MO-609a	Type 4 Rock Ditch Liner	CY	65		0		0	
D-701a	24 inch Reinforced Concrete Pipe	LF	100		0		0	
T-901a	Seeding with Hydromulch	AC	4.5		11.3		0	
MO-903a	Stop Sign, 36 in. (R1-1)	EA	1		0		0	
MO-903b	12 GA. Perforated Square Steel Tube Post, 2.5 in., with 7 GA. Post Anchor and Concrete Footing (for stop sign)	EA	1		0		0	
MO-903c	Road Closed, 30 in. x 48 in. (R11-2) with fasteners	EA	0		0		2	
MO-903d	Relocate Existing Airport Sign Assembly on two wooden Breakaway Posts	LS	1		0		0	
SCHEDULE II ALTERNATE 1								
P-151b	Tree Topping (Zone 1 and 2)	AC	0		6.0		0	
P-151c	Tree Topping (Zone 3 and 4)	AC	0		4.0		0	
P-151d	Tree Topping (Zone 5)	AC	0		1.3		0	
P-151e	Tree Clearing	AC	0		0.7		0	
SCHEDULE II ALTERNATE 2								
P-151e	Tree Clearing	AC	0		12		0	

EARTHWORK SUMMARY

AREA DESCRIPTION	CUT (CY)	FILL (CY)
SCHEDULE I		
AREA 1 - NEW ACCESS ROAD	1,048	13,400
AREA 2 - BORROW SITE (ON AIRPORT)	10,477	8
SCHEDULE SUBTOTAL		13,408
PROJECT TOTAL		13,408

EARTHWORK NOTES:

- ADDITIONAL FILL NEEDED TO BE IMPORTED BY CONTRACTOR.
- FINAL MEASUREMENT WILL NOT BE MADE EXCEPT WHEN APPRECIABLE ERRORS ARE FOUND IN THE ORIGINAL COMPUTATIONS OR AN AUTHORIZED CHANGE IS MADE.



TOTAL EXCAVATION (NO PAY)

- ① UNCLASSIFIED EXCAVATION VOLUME
- ② TOPSOIL VOLUME AT EXCAVATION (PLACED)
- ③ TOPSOIL VOLUME AT EXCAVATION (STRIPPED)

TOTAL EMBANKMENT (PAY)

- ④ EMBANKMENT VOLUME (FROM BORROW SOURCE)
- ⑤ TOPSOIL VOLUME AT EMBANKMENT (PLACED)*
- ⑥ TOPSOIL VOLUME AT EMBANKMENT (STRIPPED)

2 EARTHWORK CALCULATIONS DETAIL (EMBANKMENT)
NOT TO SCALE

NOTE:
*TOPSOIL PAID AS EMBANKMENT; NO SEPARATE PAY ITEM.

ISSUED FOR BID



FOR AND ON BEHALF OF JVIATION, INC.

Printed January 21, 2020 @ 11:33 AM by Lauren Riegert - 38VCG1807 Access Road/CA/PA/AS/000-881C-1P-000A-1-C005-QTY5.dwg



DES: D.W.C.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: F.V.	1	M.J.L.	12/18/19	ISSUED FOR BID
CH: C.L.G.	1		01/10/20	ADDENDUM NO. 1
	2		01/15/20	ADDENDUM NO. 2
	3		01/21/20	ADDENDUM NO. 3
APP: E.S.D.				

ACCESS ROAD RELOCATION AND OBSTRUCTION REMOVAL

SUMMARY OF APPROXIMATE QUANTITIES

MoDOT PROJ. NO. 19-060A-1

JVIATION PROJ. NO. 2018.8WC.02

SHEET NAME

G005

SHEET NO.

6 of 32