

ADDENDUM NO. ONE (1)

APRON EXPANSION

**CHARLOTTESVILLE-ALBEMARLE AIRPORT
CHARLOTTESVILLE**

AIP PROJECT NO. 3-51-0004-047-2018

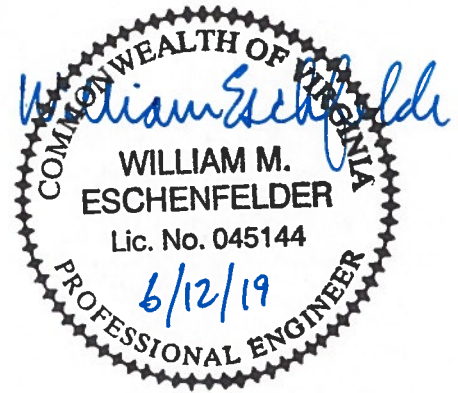
DOAV PROJECT NO. CF-0004-47

DELTA PROJECT NO. 17018

JUNE 11, 2019

From: Delta Airport Consultants, Inc.
2700 Polo Parkway
Midlothian, VA 23113

To: All Bidders of Record



This Addendum is hereby made a part of the contract documents and specifications of the above referenced project. All other requirements of the original specification shall remain in effect in their respective order. **Acknowledge receipt of this addendum by inserting its number and date in the proposal form.**

PROPOSAL

1. **REPLACE** the "BID PROPOSAL" with the attached "REVISED BID PROPOSAL" of Addendum No. One (1).

PLANS

2. **UPDATE** the summary of Quantities on Sheet G002-1 to match Attachment #2.
3. **ADD** the following notes to Sheet C107-1 Borrow & Waste Site Plan:

The Owner will consider the use of an on-site batch plant under the following general conditions:

1. The Contractor is responsible for all permitting and approvals, including Albemarle County, DEQ, FAA, etc
2. The batch plant must be located in the borrow area and may not restrict access and use of the ARFF training pad between the months of November through April.
3. Hours of operation will be limited between 7 am and 10 pm. The borrow area is adjacent to noise sensitive residential neighborhoods.
3. Additional erosion and sediment control, drainage, etc may be required and are the

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Contractor's responsibility.

4. The site shall be restored to equal or better condition than what existed prior to the project.
5. No separate payment will be made.
4. **REVISE** the joints between lanes 27 and 28 as well as lanes 30 and 31 per Attachment #3 on Sheet C109-1 PCC Joint Layout.
5. **REPLACE** Sheet C135-2 Grading & Drainage Plan Concrete Apron with Revised Sheet C135-2.
6. **ADD** Sheet C202-2 Retaining Wall Profile.
7. **REPLACE** Sheet C503-2 Drainage Details with the Revised Sheet C503-2.
8. **ADD** the following Notes to Sheet S200-2 Retaining Wall Details:
 - (1) **WATERSTOPS**
 - (a) Flexible Rubber Waterstops: CE CRD-C 513 for embedding in concrete to prevent passage of fluids through joints. Factory fabricate corners, intersections, and directional changes.
 - (i) Manufacturers:
 - 1) Greenstreak.
 - 2) Progress Unlimited, Inc.
 - 3) Williams Products, Inc.
 - (ii) Profile Ribbed with center bulb.
 - (iii) Dimensions: 4 inches by 3/16 inch thick; nontapered.
 - (b) Flexible PVC Waterstops: CE CRD-C 572, for embedding in concrete to prevent passage of fluids through joints. Factory fabricate corners, intersections, and directional changes.
 - (i) Manufacturers:
 - 1) Bometals, Inc.
 - 2) Greenstreak.
 - 3) Meadows, W. R., Inc.
 - 4) Murphy, Paul Plastics Co.
 - 5) Progress Unlimited, Inc.
 - 6) Tamms Industries, Inc.
 - 7) Vinylex Corp.
 - (ii) Profile Ribbed with center bulb.
 - (iii) Dimensions: 4 inches by 3/16 inch thick; nontapered.
 - (c) Self-Expanding Butyl Strip Waterstops: Manufactured rectangular or trapezoidal strip, butyl rubber with sodium bentonite or other hydrophilic polymers, for adhesive bonding to concrete, 3/4 by 1 inch.

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(i) Products:

- 1) Colloid Environmental Technologies Company; Volclay Waterstop-RX.
- 2) Concrete Sealants Inc.; Conseal CS-231.
- 3) Greenstreak; Swellstop.
- 4) Henry Company, Sealants Division; Hydro-Flex.
- 5) JP Specialties, Inc.; Earthshield Type 20.
- 6) Progress Unlimited, Inc.; Superstop.
- 7) TCMiraDRI; Mirastop.

(2) MASONRY VENEER

- (a) General: All Masonry Construction shall be in accordance with ACI 530-13 and ACI 530.1-13.

Brick Masonry Veneer and Wall Coping to match existing size, color and type. All Final selections of Brick, Mortar and Coping to be approved by the owner.

- (b) Materials: Brick to be Grade SW. Mortar to be type S PCL.
- (c) Joints: Tooling of mortar joints to match existing.

Spacing of control joints to match existing.

(3) TIES AND ANCHORS

- (a) General: Ties and anchors shall extend at least 1-1/2 inches into veneer but with at least a 5/8-inch cover on outside face. Ties Shall be spaced at maximum 24 inches on center horizontally and 16 inches on center vertically.
- (b) Materials: Provide ties and anchors specified in this article that are made from materials that comply with the following unless otherwise indicated:

- (i) Hot-Dip Galvanized, Carbon-Steel Wire: ASTM A 82/A 82M, with ASTM A 153/A 153M, Class B-2 coating.
- (ii) Steel Sheet, Galvanized after Fabrication: ASTM A 1008/A 1008M, Commercial Steel, with ASTM A 153/A 153M, Class B coating.

- (c) Adjustable Anchors for Connecting to Concrete: Provide anchors that allow vertical or horizontal adjustment but resist tension and compression forces perpendicular to plane of wall.

- (i) Connector Section: Dovetail tabs for inserting into dovetail slots in concrete and attached to tie section; formed from 0.105-inch-thick, steel sheet, galvanized after fabrication.
- (ii) Tie Section: Triangular-shaped wire tie made from 0.187-inch diameter, hot-dip galvanized-steel wire.
- (iii) Corrugated-Metal Ties: Metal strips not less than 7/8 inch wide with corrugations having a wavelength of 0.3 to 0.5 inch and an amplitude of 0.06 to 0.10 inch made from 0.105-inch-thick steel sheet, galvanized after fabrication with dovetail tabs for inserting into dovetail slots in concrete.

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9. **REPLACE** Sheet E001-3 General Notes, Legend and Abbreviations with the Revised Sheet E001-3.
10. **REPLACE** Sheet E102-3 Apron Parking Lot New Work Plan with the Revised Sheet E102-3.
11. **REPLACE** Sheet E501-3 Details with the Revised Sheet E501-3.
12. **REPLACE** Sheet E601-3 Schedules and Diagrams with the Revised Sheet E601-3.
13. **REPLACE** Sheet E602-3 Power Riser Diagram with the Revised Sheet E602-3.

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ATTACHMENTS:

1. Questions and Answers
2. Revised Summary of Quantities
3. C109-1 PCC Joint Layout Exhibit
4. Revised Grading & Drainage Plan Concrete Apron, Sheet C135-2
5. Retaining Wall Profile, Sheet C202-2
6. Revised Drainage Details, Sheet C503-2
7. Revised General Notes, Legend, and Abbreviations, Sheet E001-3
8. Revised Apron Parking Lot New Work Plan, Sheet E102-3
9. Revised Details, Sheet E501-3
10. Revised Schedules and Diagrams, Sheet E601-3
11. Revised Power Riser Diagram, Sheet E602-3
12. Revised Proposal

END OF ADDENDUM NO. ONE (1)

ADDENDUM NO. ONE (1)

PROJECT DESCRIPTION AIRPORT LOCATION

QUESTIONS AND ANSWERS

1. QUESTION: The proposal form does not match the list of bid items and quantities in the plans. Will a new proposal form be issued?

ANSWER: A new proposal has been issued.

2. QUESTION: Will you provide the proposal form of Bid Items, Quantities, and pricing schedule in spreadsheet (.xls) format?

ANSWER: The proposal will not be provided in Excel.

3. QUESTION: Please provide: Asphalt Pavement Detail/Typical section.

ANSWER: The asphalt pavement details are on Typical Section & Paving Details, Sheet C124-1. Sections correspond to hatching on the Geometric Layout, Sheet C108-1.

4. QUESTION: Please provide Specification location of R-309, 21A stone & subbase #57 stone.

ANSWER: R-309 is located on page 237 of the specifications. These materials correspond to the Shoulder Pavement Detail on Typical Section & Paving Details, Sheet C124-1.

5. QUESTION: At the pre-bid meeting of May 29th it was stated by the Owner that an escort for non-badged delivery vehicles could be a visual escort between the gate and work area. Can you advise on how many visible escorts would be sufficient? Can the flagger positioned at the Smith Worrell Corporate Hangar be on these visual escorts? Would this flagger be sufficient as the only visual escort or would additional escorts be needed?

ANSWER: The flagger at the Smith Worrell Corporate Hangar and the gate guard positioned by the SRE building should be adequate as visual escorts. If the Contractor has difficulty controlling the movement of vehicles driven by unbadged employees, additional escorts will be required.

6. QUESTION: Plan C135-2 refers to a retaining wall profile by Draper Aden (CG203). Is this profile plan available?

ANSWER: The profile has been added and is shown on Sheet C202-2.

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7. QUESTION: Plan C503-2 has the trench drain detail marked as “NIC”. For trench drain shown on Plan C135-2, is info such as manufacturer/model, invert elevations and details provided elsewhere?

ANSWER: Sheet C503-2 has been revised and reissued.

8. QUESTION: Plan S1---2, Retaining Wall. Are specs available for waterstop, dovetail anchors (including spacing), and masonry veneer?

ANSWER: Specifications for these items has been added to Sheet S200-2 Retaining Wall Details of the plans.

9. QUESTION: Please advise if an area will be made available on-site/airport property for the contractor to establish a central mix batch plant for PCC and Concrete works.

ANSWER: An on-site batch plant may be acceptable. Please note that there is no electrical service in the borrow area. Minimum requirements for the plant have been added to Sheet C107-1 Borrow & Waste Site Plan.

10. QUESTION: Is there a detail for the proposed Trench Drain?

ANSWER: See revised Sheet C503-2

11. QUESTION: On sheet C109-1 PCC Joint layout, there is no designation for the joint between lane 30&31. Please indicate the joint typ.

ANSWER: Sheet C109-1 PCC Joint Layout has been revised.

12. QUESTION: The specification for P-605 lists only silicone Joint sealants under 605-2.1 but the Material Requirements at the end of the section includes ASTM D6690 Hot Applied. Will there be a requirement to use ASTM D6690, and if so where?

ANSWER: ASTM D6690 is not required on this project.

13. QUESTION: Will apron drainage be handled with slot drains or a trench drain?

ANSWER: The apron will be drained using a trench drain. Payment will be made under Item D-702 for 8” trench drain. See the detail on the revised Sheet C503-2 Drainage Details.

14. QUESTION: On what date do you anticipate that actual construction on this project will begin?

ANSWER: Funding for the project is anticipated to be secured in September 2019. Physical construction is expected to begin by Spring 2020.

SUMMARY OF QUANTITIES

ITEM NO.	SPEC NO.	DESCRIPTION	UNIT	AS-BID	AS-BUILT
1	P-100	MOBILIZATION	LS	1	
2	P-140	BITUMINOUS PAVEMENT REMOVAL	SY	1,500	
3	P-140	CONCRETE PAVEMENT REMOVAL	SY	1,000	
49	L-108	NO. 8 AWG L-824C CABLE, 5KV	LF	1,200	
50	L-108	NO. 6 AWG SOLID BARE COPPER COUNTERPOISE WIRE	LF	700	
51	L-108	FIBER OPTIC LINE SM CABLE	LF	16,000	
52	L-108	FIBER OPTIC LINE INNERDUCT	LF	4,000	
53	L-110	CONCRETE ENCASED ELECTRICAL DUCT BANK, 1 WAY-4"PVC	LF	1,000	
54	L-110	NON-ENCASED ELECTRICAL CONDUIT, 1-WAY - 2" PVC CONDUIT	LF	700	
55	L-110	ELECTRICAL CONDUIT, 2-WAY - 2" PVC CONDUIT (FIBER OPTIC)	LF	250	
56	L-110	CONDUIT UNDER NEW PAVEMENT 2"PVC (FIBER OPTIC)	LF	450	
57	L-115	AIRCRAFT RATED HANHOLE	EA	5	
58	L-115	ADJUST EXISTING HANDHOLE	EA	1	
59	L-125	L-861T(L) BASE MOUNTED MITL (LED)	EA	10	
60	L-125	L-853 TYPE II RETROREFLECTIVE MARKER	EA	4	
61	R-309	AGGREGATE BASE COURSE, 21A STONE	CY	1,000	
62	R-309	AGGREGATE SUBBASE COURSE, #57 STONE	CY	5,000	
63	R-315	ASPHALT CONCRETE BASE COURSE, TYPE BM-25.0	TN	300	
64	R-315	ASPHALT SURFACE COURSE, TYPE SM-12.5A	TN	800	
65	R-505	VDOT MB-7D BARRIER WALL	LF	500	
66	SP-35	TEST PIT	LS	1	
67	SP-37	SYNTHETIC MULCH BEDDING	SY	600	
68	SP-38	APRON LIGHTING ELECTRICAL ITEMS (PACE ELECTRIC)	LS	1	
69	SP-39	RETAINING WALL (STRUCTURAL)	LS	1	

PROJECT NO. 17018

ADDENDUM NO. 1

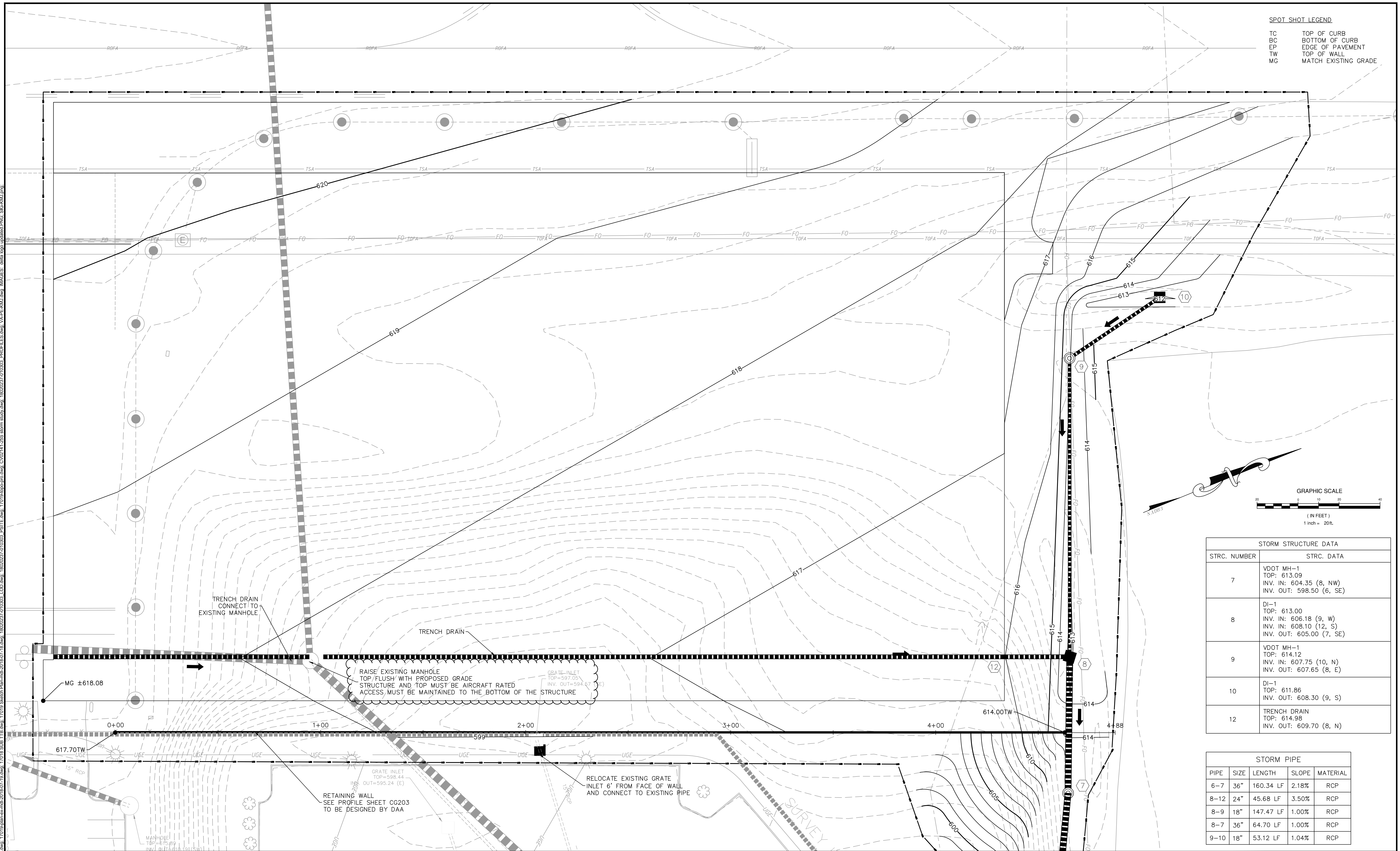
ATTACHMENT NO. 2

SHEET NO. G002-1

DATE: JUNE 12, 2019


PROJECT NO. 17018	ADDENDUM NO. 1	ATTACHMENT NO. 3	SHEET NO. C109-1	DATE: JUNE 12, 2019
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TC	TOP OF CURB
BC	BOTTOM OF CURB
EP	EDGE OF PAVEMENT
TW	TOP OF WALL
MG	MATCH EXISTING GRADE



STORM STRUCTURE DATA	
STRC. NUMBER	STRC. DATA
7	VDOT MH-1 TOP: 613.09 INV. IN: 604.35 (8, NW) INV. OUT: 598.50 (6, SE)
8	DI-1 TOP: 613.00 INV. IN: 606.18 (9, W) INV. IN: 608.10 (12, S) INV. OUT: 605.00 (7, SE)
9	VDOT MH-1 TOP: 614.12 INV. IN: 607.75 (10, N) INV. OUT: 607.65 (8, E)
10	DI-1 TOP: 611.86 INV. OUT: 608.30 (9, S)
12	TRENCH DRAIN TOP: 614.98 INV. OUT: 609.70 (8, N)

STORM PIPE				
PIPE	SIZE	LENGTH	SLOPE	MATERIAL
6-7	36"	160.34 LF	2.18%	RCP
8-12	24"	45.68 LF	3.50%	RCP
8-9	18"	147.47 LF	1.00%	RCP
8-7	36"	64.70 LF	1.00%	RCP
9-10	18"	53.12 LF	1.04%	RCP

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Draper Aden Associates

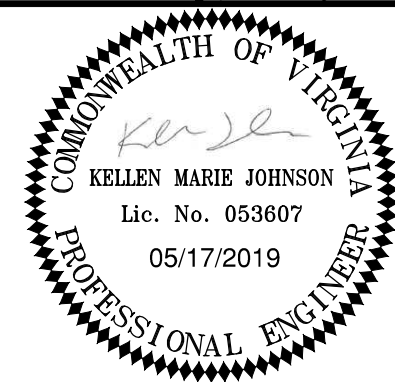
Engineering • Surveying • Environmental Services

1030 Wilmer Avenue, Suite 100 Richmond, VA 23227 804-264-2228 Fax: 804-264-8773	Blacksburg, VA Charlottesville, VA Hampton Roads, VA	Raleigh, NC Fayetteville, NC Northern Virginia Virginia Beach, VA
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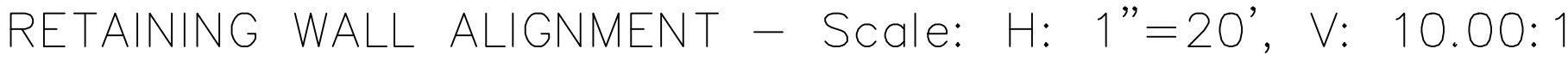


**DELTA AIRPORT
CONSULTANTS, INC.**

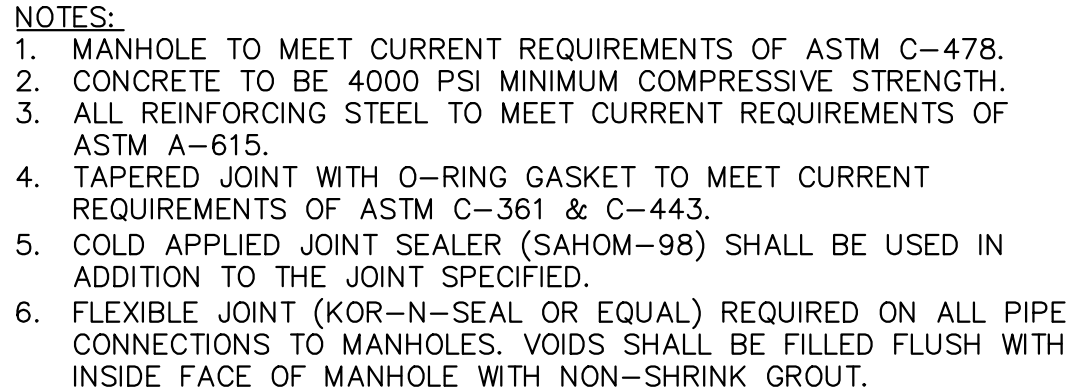
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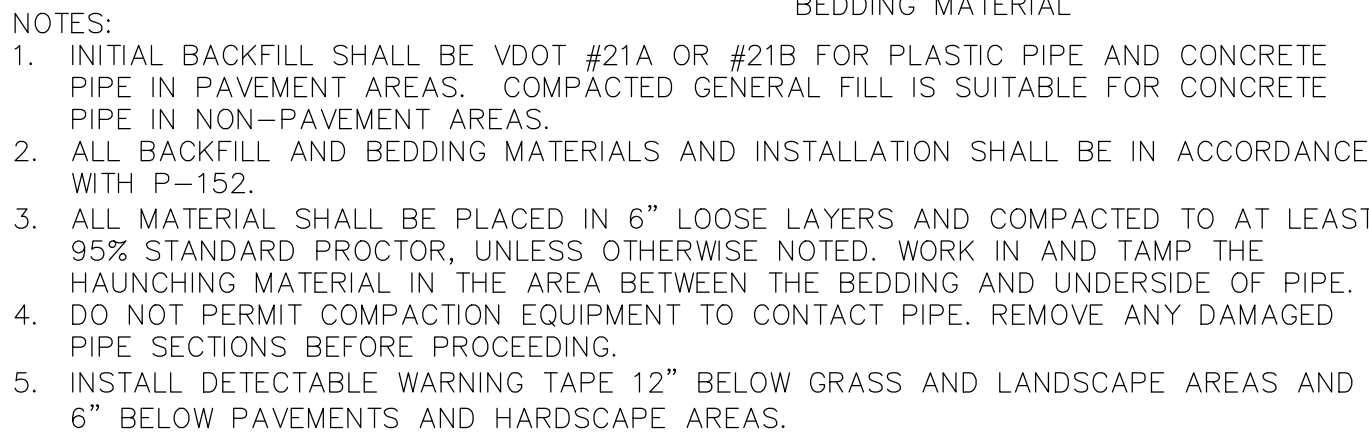
EXPAND TERMINAL APRON	AIP NO. 3-51-0004-047-2018		JOB NO. 17018
GRADING & DRAINAGE PLAN CONCRETE APRON	DRAWN BY: LAA		SHEET C135-2
	DESIGNED BY: KMJ		
CHARLOTTESVILLE-ALBEMARLE AIRPORT	SCALE: 1" = 20'	DATE: MAY 2019	



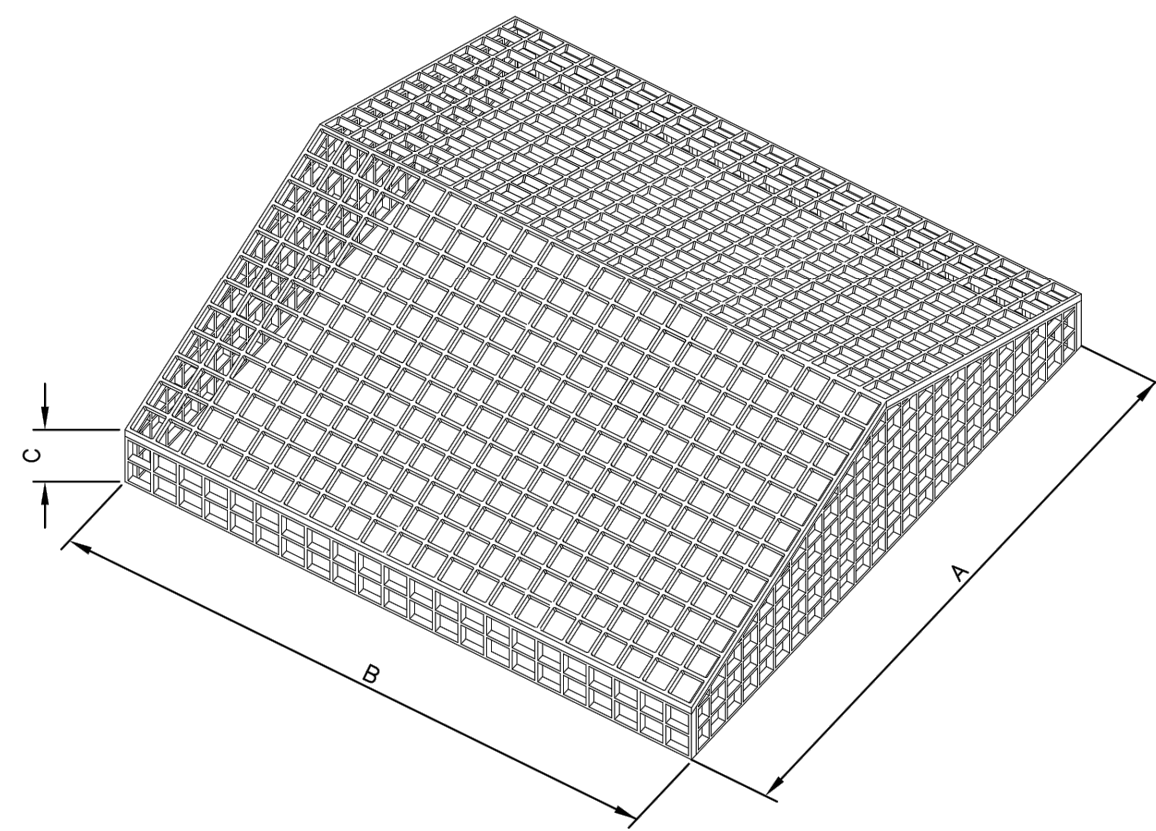
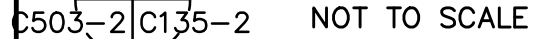
DRAWING: 18020227-010363 GRAD SHEETS: 17018-0004-047-2018-01 REFS:										 Draper Aden Associates <i>Engineering • Surveying • Environmental Services</i> 1030 Wilmer Avenue, Suite 100 Blacksburg, VA Raleigh, NC Richmond, VA 23227 Charlottesville, NC Fayetteville, NC 804-264-2228 Fax: 804-264-8773 Northern Virginia Hampton Roads, VA Virginia Beach, VA										 DELTA AIRPORT CONSULTANTS, INC. 2700 Polo Parkway • Midlothian, Virginia 23113 phone: (804) 275-8301 • www.deltairport.com																				<table><tr><td colspan="10">EXPAND TERMINAL APRON</td><td colspan="10">AIP NO. 3-51-0004-047-2018</td><td colspan="10">JOB NO. 17018</td></tr><tr><td colspan="10" rowspan="2">RETAINING WALL PROFILE</td><td colspan="10">DRAWN BY: LAA</td><td colspan="10" rowspan="2">C202-2</td></tr><tr><td colspan="10">DESIGNED BY: KMJ</td></tr><tr><td colspan="10">CHARLOTTESVILLE-ALBEMARLE AIRPORT</td><td colspan="10">SCALE: 1" = 20'</td><td colspan="10">DATE: MAY 2019</td></tr></table>										EXPAND TERMINAL APRON										AIP NO. 3-51-0004-047-2018										JOB NO. 17018										RETAINING WALL PROFILE										DRAWN BY: LAA										C202-2										DESIGNED BY: KMJ										CHARLOTTESVILLE-ALBEMARLE AIRPORT										SCALE: 1" = 20'										DATE: MAY 2019									
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C133-2 C503-2 NOT TO SCALE



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PEAK ROOF (PR) ----- ----- -----
 WIDTH (A) LENGTH (B) HEIGHT (C)



PROJECT:

DATE:

DRAWN BY:

APP'D BY:

DETAIL:

**DELTA AIRPORT
CONSULTANTS, INC.**

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EXPAND TERMINAL APRON	AIP NO. 3-51-0004-047-2018		JOB NO. 17018
DRAINAGE DETAILS	DRAWN BY: LAA		SHEET C503-2
	DESIGNED BY: KMJ		
CHARLOTTESVILLE-ALBEMARLE AIRPORT	SCALE: NONE	DATE: MAY 2019	

GENERAL ELECTRICAL NOTES

GENERAL: UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL WORK SHOWN ON ELECTRICAL DRAWINGS IS NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.

COORDINATION: COORDINATE AND COOPERATE WITH ALL TRADES ON THE PROJECT. THE CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS INCLUDING CIVIL DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL COORDINATE AND ADJUST ACCORDINGLY AS DIRECTED BY THE ENGINEER.

AS-BUILT DRAWINGS: SECURE AN EXTRA SET OF ELECTRICAL DRAWINGS TO BE KEPT ON SITE AND MARK, DAILY, THE DRAWINGS IN RED AS THE PROJECT PROGRESSES IN ORDER TO KEEP AN ACCURATE RECORD OF ALL DEVIATIONS BETWEEN THE WORK SHOWN ON THE DRAWINGS AND THE WORK WHICH IS ACTUALLY INSTALLED. THESE MARKED DRAWINGS SHALL REFLECT ANY AND ALL CHANGES AND REVISIONS TO THE ORIGINAL DESIGN WHICH EXISTS IN THE COMPLETED WORK. DELIVER THE MARKED DRAWINGS TO THE OWNER AT PROJECT CLOSE-OUT.

TESTS: TEST ALL WIRING FOR CONTINUITY AND GROUNDS BEFORE CONNECTING ANY FIXTURES OR DEVICES. PERFORM INSULATION RESISTANCE TESTS ON ALL WIRING #6 OR LARGER TO ENSURE THAT ALL PORTIONS ARE FREE FROM SHORT-CIRCUITS AND GROUNDS.

INSPECTIONS: ARRANGE ALL NECESSARY INSPECTIONS. DELIVER ALL REQUIRED INSPECTION CERTIFICATES TO THE OWNER.

GROUNDING: PROVIDE GROUNDING IN ACCORDANCE WITH THE NEC FOR THE ENTIRE ELECTRICAL SYSTEM INCLUDING EQUIPMENT FRAMES CONDUITS, SWITCHES, CONTROLLERS, WIRE-WAYS, NEUTRAL CONDUCTORS, AND OTHER EQUIPMENT. PROVIDE A GROUNDING CONDUCTOR IN ALL POWER CONDUITS.

LABELS: PROVIDE LABELS FOR ALL SWITCHBOARDS, PANELBOARDS. LABELS SHALL BE MACHINE ENGRAVED, LAMINATED PLASTIC, PERMANENTLY ATTACHED WITH SELF-TAPPING SCREWS OR RIVETS. DO NOT USE SELF-ADHESIVE LABELS. LABEL SHALL INDICATE EQUIPMENT DESIGNATION AND ASSOCIATED PANEL AND CIRCUIT THAT SERVES IT.

J-BOX LABELING: LABEL ALL JUNCTION BOXES WITH PERMANENT MARKER IDENTIFYING CIRCUIT NUMBER AND PANELBOARD OF CIRCUITS WITHIN.

PANEL DIRECTORY: PROVIDE TYPEWRITTEN PANELBOARD DIRECTORY CARD IN EACH PANELBOARD WITH CIRCUIT LOAD INFORMATION AND ROOM NUMBER CLEARLY IDENTIFIED.

CONDUCTORS AND MATCHING LUGS: IN SITUATIONS WHERE CONDUCTOR SIZES AND/OR QUANTITIES OF PARALLEL SETS HAVE BEEN INCREASED DUE TO VOLTAGE DROP OR FOR OTHER REASONS, CONTRACTOR SHALL PROVIDE THE APPROPRIATE LUG SIZES/QUANTITIES WITHIN THE EQUIPMENT CONNECTED (SWITCHBOARD, PANELBOARD, DISCONNECT SWITCH, TRANSFER SWITCH ETC.) TO PERMIT SATISFACTORY CONNECTION OF THE INDICATED CONDUCTORS. WHERE SUFFICIENT LUG SIZES AND/OR QUANTITIES CANNOT BE PROVIDED TO ACCOMMODATE THE CONDUCTORS INDICATED, THEN PROVIDE REDUCING ADAPTERS, PIN TERMINALS, OR A JUNCTION BOX TO SPLICE LARGER CONDUCTORS TO APPROPRIATELY SIZED SMALLER CONDUCTORS TO FIT INTO THE LUGS PROVIDED. ALL CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE NEC.

WORKING CLEARANCE: ASSURE WORKING CLEARANCE REQUIRED BY NEC WILL BE MET. SUFFICIENT ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED AROUND ELECTRICAL EQUIPMENT AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.





LIGHTING CONTROL TESTING: UPON COMPLETION OF THE INSTALLATION OF ALL LIGHTING SYSTEMS AND CONTROL DEVICES, CONTRACTOR SHALL CONFIRM PROPER OPERATION OF ALL LIGHTING CONTROLS, AND DEMONSTRATE PROPER OPERATION TO THE OWNER AND/OR ENGINEER.







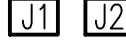

BARRIERS: WHERE A MULTIPLE-GANG BOX HAS CIRCUITS OF DIFFERENT VOLTAGES OR SYSTEMS WHICH ARE REQUIRED TO BE SEPARATED, PROVIDE THE CODE-REQUIRED SEPARATION USING A FULL HEIGHT AND DEPTH BARRIER PLATE.

CLEAN UP: ON PROJECT CLOSE-OUT CLEAN ALL LIGHTING FIXTURES AND LENSES. REPAIR ALL INOPERATIVE LIGHTING FIXTURES.




OWNER STANDARDS: ALL WORK SHALL COMPLY WITH THE OWNER'S PUBLISHED STANDARDS WHICH ARE AVAILABLE DIRECTLY FROM THE OWNER.

ELECTRICAL LEGEND

LIGHTING	
	AREA SITE LIGHTING FIXTURE
	LIGHTING FIXTURE TYPE SYMBOL. SEE LIGHTING FIXTURE DETAILS.
	LIGHTING CONTACTOR
	PHOTOCELL, 1500W, 120V SPST, MOUNT TO TOP OF SWITCHBOARD, AIM NORTH

POWER	
	ELECTRICAL PANELBOARD
	DRY-TYPE TRANSFORMER
	SURGE PROTECTIVE DEVICE
	MULTI FUNCTION DIGITAL METER
	GROUND FAULT MAIN CIRCUIT BREAKER.
	HAND HOLE – SEE DTAIL ON CIVIL DRAWINGS.
	IN GRADE JUNCTION BOX – SEE DETAIL ON DRAWING E501-3.
	JUNCTION BOX

ELECTRICAL CIRCUIT RUN IN CONDUIT AND CIRCUIT HOMERUN TO PANELBOARD (PANEL AND CIRCUIT DESIGNATION AS INDICATED). AS A MINIMUM CONDITION, EACH SINGLE PHASE CIRCUIT SHALL HAVE 1 #12 PHASE CONDUCTOR, 1 #12 NEUTRAL CONDUCTOR AND 1 #12 GROUNDING CONDUCTOR IN 1" MINIMUM CONDUIT, UNLESS OTHERWISE SPECIFIED. PROVIDE ADDITIONAL PHASE CONDUCTORS AS REQUIRED FOR "MULTIPLE PHASED" ELECTRICAL LOADS. PROVIDE NEUTRAL CONDUCTOR TO ALL WALL SWITCH OUTLET BOXES WHETHER REQUIRED OR NOT. PROVIDE ADDITIONAL "SWITCH LEG" CONDUCTORS TO PROVIDE THE LIGHT FIXTURE CONTROL INDICATED. MULTIPLE SINGLE PHASE CONDUCTORS MAY BE GROUPED TOGETHER IN A COMMON CONDUIT IN ACCORDANCE WITH THE NEC AND AT THE CONTRACTOR'S DISCRETION. GROUNDING CONDUCTORS MAY BE SHARED AS ALLOWED BY THE NEC. NEUTRAL CONDUCTORS SHALL NOT BE SHARED. MULTI-POLE BREAKERS SHALL BE PROVIDED IN ACCORDANCE WITH THE NEC WHERE MULTI-WIRE BRANCH CIRCUITS ARE REQUIRED. CONDUIT LARGER THAN 1" AND CONDUCTORS LARGER THAN #12 SHALL BE AS INDICATED.

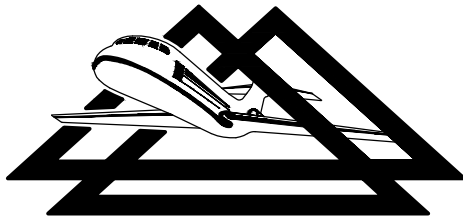
POWER	
THE FOLLOWING SUBSCRIPTS SHALL APPLY TO RECEPTACLES WHERE USED:	
<ul style="list-style-type: none">GFI: GROUND FAULT INTERRUPTING TYPE RECEPTACLEWP: WEATHER RESISTANT GFI RECEPTACLE WITH METALLIC WEATHERPROOF WHILE-IN-USE COVER.	
	5-20R DUPLEX CONVENIENCE RECEPTACLE 20A, 120V, 24" AFG, UON
	SPECIAL RECEPTACLE, AS NOTED ON PLANS
	SAFETY SWITCH, 60A-3P, FU @ 30A, 3R
	SWITCH RATING NUMBER OF POLES FUSE RATING (NF INDICATES NON-FUSED) NEMA ENCLOSURE IF OTHER THAN NEMA 1

GENERAL	
	NEW WORK NOTE SYMBOL

ABBREVIATIONS

A AMPERE
AFG ABOVE FINISHED GRADE
AIC AMPERE INTERRUPTING CAPACITY
ATS AUTOMATIC TRANSFER SWITCH
BFG BELOW FINISHED GRADE
C CONDUIT
CFCI CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CKT CIRCUIT
CB CIRCUIT BREAKER
DE DOMINION ENERGY
EC EMPTY CONDUIT
ECB ENCLOSED CIRCUIT BREAKER
EQUIP EQUIPMENT
ETR EXISTING TO REMAIN
EXIST EXISTING
FLA FULL LOAD AMPS
GFI GROUND FAULT INTERRUPTER
GND GROUND
HID HIGH INTENSITY DISCHARGE
KAIC THOUSAND AMPERE INTERRUPTING CAPACITY
KVA KILO-VOLT-AMPERES
KW KILO-WATTS
LPW LUMENS PER WATT
LTG LIGHTING
MCA MINIMUM CIRCUIT AMPS
MCB MAIN CIRCUIT BREAKER
MFR MANUFACTURER
MLO MAIN LUGS ONLY
MTD MOUNTED
NEC NATIONAL ELECTRICAL CODE
NIC NOT IN CONTRACT
NTS NOT TO SCALE
OC ON CENTER
OFCI OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI OWNER FURNISHED, OWNER INSTALLED
P POLE
PF POWER FACTOR
PL PROPERTY LINE
PNL PANEL
PNLBD PANELBOARD
Ø PHASE
PRI PRIMARY
RECEPT RECEPTACLE
REQ'D REQUIRED
SEC SECONDARY
TYP TYPICAL
UON UNLESS OTHERWISE NOTED
V VOLT
W WATTS/WIRE
WG WIRE GUARD
WP WEATHERPROOF

NO.	REVISIONS	BY	APP.	DATE



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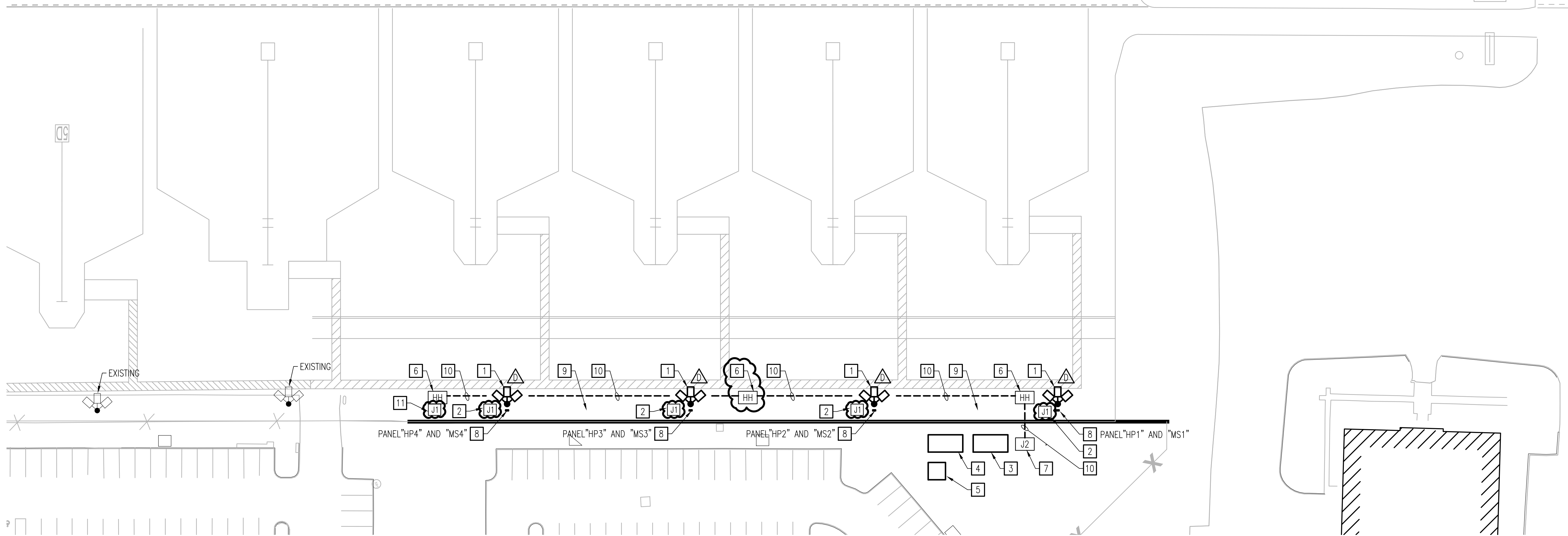
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EXPAND TERMINAL APRON GENERAL NOTES, LEGEND, AND ABBREVIATIONS CHARLOTTESVILLE ALBEMARLE AIRPORT	AIP NO. 3-51-0004-047-2018	JOB NO. 17018
	DRAWN BY: CMD	SHEET
	DESIGNED BY: CMD	E001-3
	SCALE: NONE	DATE: MAY 2019

NOTES THIS SHEET

- 1
- CONCRETE BASE AND LIGHT POLE (REFER TO E501 FOR CONCRETE BASE DETAIL). PROVIDE A COPPER GROUND ROD AT EACH POLE. REFER ALSO TO E501-3 FOR LED POLE MOUNTED LUMINAIRES, POLES, GROUNDING AND MOUNTING ACCESSORIES. LIMIT TILT OF FIXTURE HEADS TO 30 DEGREES ABOVE HORIZONTAL. PROVIDE FIXTURE LABEL DENOTING 30 DEGREE TILT MAXIMUM.
- 2
- (2) #10, (1) #10 GND - 1"Ø. FROM JUNCTION BOX THRU DISCONNECT SWITCH TO LIGHTING POLE. SEE RISER ON DRAWING E602.
- 3
- SWITCHBOARD "AMSB" FOR APRON LIGHTING. PROVIDE CONCRETE PAD FOR SERVICE EQUIPMENT. SEE ELECTRICAL RISER ON DRAWING E602-3.
- 4
- STANDBY GENERATOR ON CONCRETE PAD. SEE ELECTRICAL RISER ON DRAWING E601.
- 5
- UTILITY PAD MOUNTED TRANSFORMER.
- 6
- HAND HOLE FOR TERMINATION OF CONDUITS FOR FUTURE USE. SEE CIVIL DRAWINGS FOR HAND HOLE DETAIL. SEE DRAWING E602-3 FOR HAND HOLE DIMENSIONS.
- 7
- (2) JUNCTION BOXES [J2] FOR ROUTING OF CONDUITS FOR FUTURE LIGHTING AND POWER CIRCUITS TO EXISTING APRON. SEE DRAWINGS E602-3 FOR DETAIL.
- 8
- TRANSFORMER AND PANELBOARDS MOUNTED TO RACK BEHIND POLE TO BE SERVED. SEE RACK DETAIL ON DRAWING E501-3. SEE ELECTRICAL RISER ON DRAWING E602-3.
- 9
- COORDINATE WORK WITH EXISTING UNDERGROUND FIBER OPTIC CABLING.
- 10
- CONDUITS FOR FUTURE APRON LIGHTING AND POWER CIRCUITS BELOW GRADE.
- 11
- JUNCTION BOX FOR TERMINATION OF ACTIVE AND EMPTY CONDUITS FOR POLE LIGHTING CIRCUITS FOR FUTURE USE.



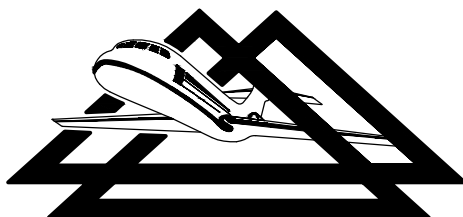
APRON PARKING LOT NEW WORK PLAN

SCALE: 1" = 30'-0"

GRAPHIC SCALE

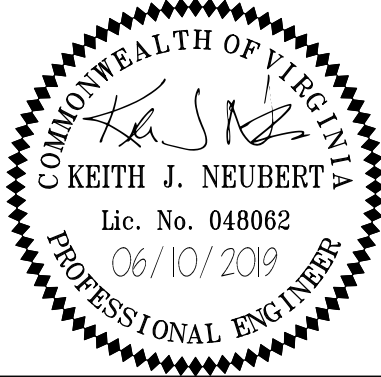


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EXPAND TERMINAL APRON	AIP NO. 3-51-0004-047-2018	JOB NO. 17018
APRON PARKING LOT NEW WORK PLAN	DRAWN BY: CMD	SHEET
CHARLOTTESVILLE ALBEMARLE AIRPORT	DESIGNED BY: CMD	E102-3
	SCALE: 1" = 30'	DATE: MAY 2019

ELECTRICAL LOAD SUMMARY			
LOAD DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
LIGHTING	2.1 KVA	100%	2.1 KVA
EXTERIOR LIGHTING	41.7 KVA	100%	41.7 KVA
RECEPTACLES	622.3 KVA	100%	622.3 KVA
HEATING	21.9 KVA	100%	21.9 KVA
480V GPU RECEIPT	1974.5 KVA	50%	987.2 KVA
TOTAL 2662.5 KVA			1675.2 KVA

AMSB LOAD SUMMARY			
LOAD SERVED	LOAD (AMPS)		
	A	B	C
PANEL A-LTG	50.2	50.2	50.2
PANEL HP1	146.8	146.5	140.0
PANEL HP2	151.8	150.8	144.3
PANEL HP3	146.8	146.5	140.0
PANEL HP4	146.8	146.5	140.0
PANEL HP5	146.8	146.5	140.0
PANEL HP6	146.8	146.5	140.0
PANEL HP7	146.8	146.5	140.0
PANEL HP8	146.8	146.5	140.0
PANEL HP9	146.8	146.5	140.0
PANEL HP10	146.8	146.5	140.0
PANEL HP11	146.8	146.5	140.0
PANEL HP12	146.8	146.5	140.0
PANEL HP13	146.8	146.5	140.0
PANEL HP14	146.8	146.5	140.0
PANEL HP15	146.8	146.5	140.0
PANEL HP16	146.8	146.5	140.0
PANEL HP17	146.8	146.5	140.0
PANEL HP18	146.8	146.5	140.0
PANEL HP19	146.8	146.5	140.0
PANEL HP20	146.8	146.5	140.0
PANEL HP21	146.8	146.5	140.0
PANEL HP22	146.8	146.5	140.0
SPACE ONLY			
SPACE ONLY			
TOTAL CONNECTED AMPS:		3284.4	3277.1 3134.1

PANELBOARD A-LTG SCHEDULE													
SEE POWER RISER DIAGRAM FOR RATINGS													
LOAD SERVED	LOAD (AMPS)			BKR TRIP	CKT NO.	PHASE A B C			CKT NO.	BKR TRIP	LOAD (AMPS)		
	A	B	C			A	B	C			A	B	C
LTG APRON POLES 1,2,3,4 (5,6 FUTURE)	13.7			20/3P	1				2	20/3P	13.7		
		13.7										13.7	
			13.7										13.7
LTG APRON POLES 7,8,9,10,11 (FUTURE)	11.4			20/3P	7				8	20/3P	11.4		
		11.4										11.4	
			11.4										11.4
SPARE				20/3P	13				14	20/3P			
TOTAL	25.1	25.1	25.1								25.1	25.1	25.1
TOTAL CONNECTED AMPS		A: 50.2		B: 50.2		C: 50.2							

PANELBOARD HP1 SCHEDULE													
SEE POWER RISER DIAGRAM FOR RATINGS													
LOAD SERVED	LOAD (AMPS)			BKR TRIP	CKT NO.	PHASE A B C			CKT NO.	BKR TRIP	LOAD (AMPS)		
	A	B	C			A	B	C			A	B	C
GPU RECEIPT	108.0			150/3P	1				2	70/3P	38.8		
POLE 1		108.0										38.5	
			108.0										32.0
SPACE ONLY				20/1P	7				8	20/1P			
SPACE ONLY				20/1P	9				10	20/1P			
SPACE ONLY				20/1P	11				12	20/1P			
TOTAL	108.0	108.0	108.0								38.8	38.5	32.0
TOTAL CONNECTED AMPS		A: 146.8		B: 146.5		C: 140.0							

PANELBOARD HP3 SCHEDULE													
SEE POWER RISER DIAGRAM FOR RATINGS													
LOAD SERVED	LOAD (AMPS)			BKR TRIP	CKT NO.	PHASE A B C			CKT NO.	BKR TRIP	LOAD (AMPS)		
	A	B	C			A	B	C			A	B	C
GPU RECEIPT.	108.0			150/3P	1				2	70/3P	38.8		
POLE 3		108.0										38.5	
			108.0										32.0
SPACE ONLY				20/1P	7				8	20/1P			
SPACE ONLY				20/1P	9				10	20/1P			
SPACE ONLY				20/1P	11				12	20/1P			
TOTAL	108.0	108.0	108.0								38.8	38.5	32.0
TOTAL CONNECTED AMPS		A: 146.8		B: 146.5		C: 140.0							

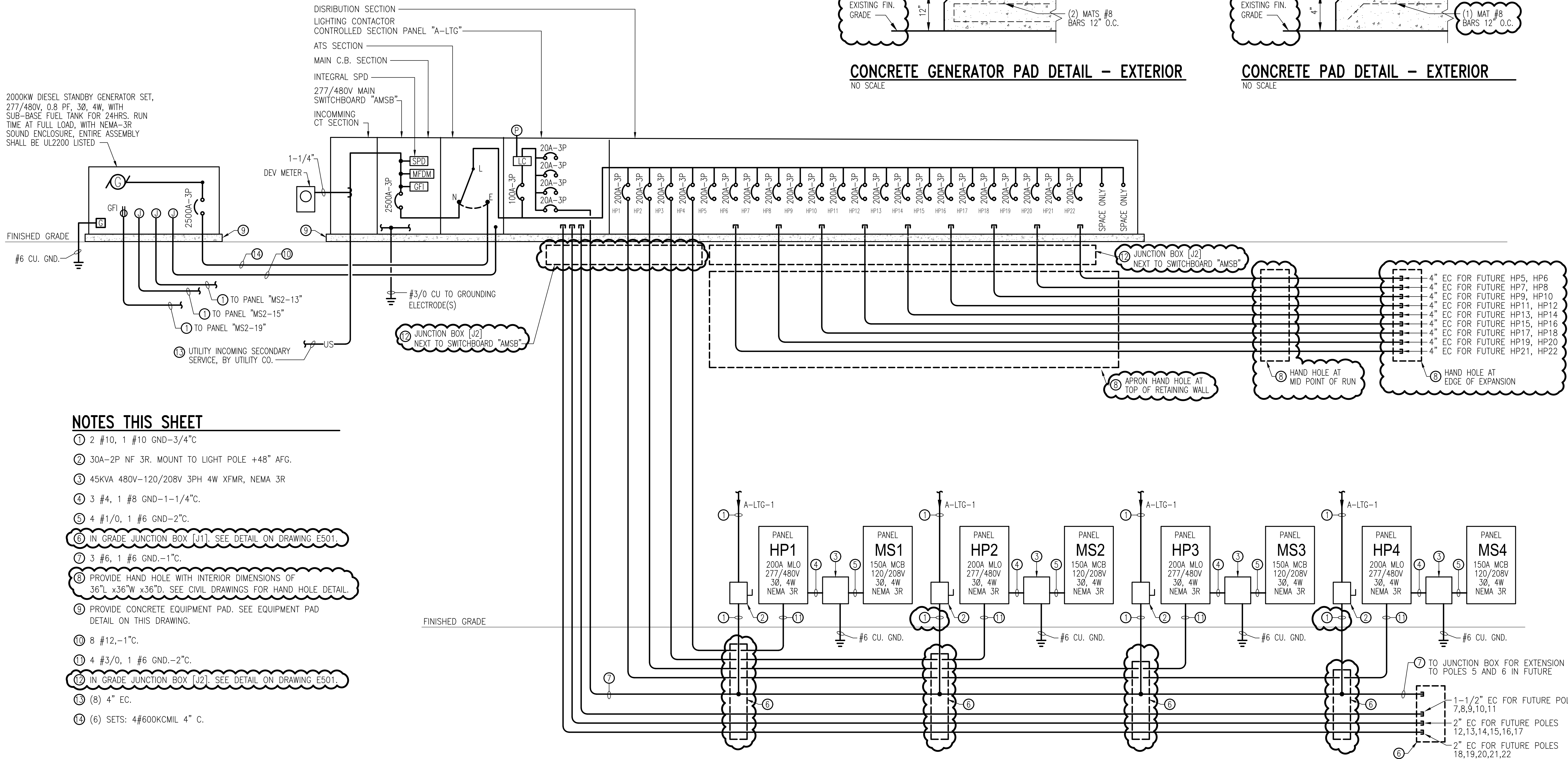
PANELBOARD MS1 SCHEDULE													
SEE POWER RISER DIAGRAM FOR RATINGS													
LOAD SERVED	LOAD (AMPS)			BKR TRIP	CKT NO.	PHASE A B C			CKT NO.	BKR TRIP	LOAD (AMPS)		
	A	B	C			A	B	C			A	B	C
REC PIN AND SLEEVE	64.0			80/3P	1				2	30/2P	24.0		
		64.0							6	20/1P			1.5
			64.0						8	80/3P			
REC. POT. WAT. CAB.	1.5			20/1P	7								
LTG POT. WAT. CAB.		0.8		20/1P	9								
HTR. POT. WAT. CAB.			8.3	20/1P	11								
SPARE				20/3P	13				14	30/2P			
SPARE				20/1P	15								
SPARE				20/1P	17				18	20/1P			
SPARE				20/1P	19				20	20/1P			
SPARE				20/1P	21				22	20/1P			
SPARE				20/1P	23				24	20/1P			
TOTAL	65.5	64.8	72.3								24.0	24.0	1.5
TOTAL CONNECTED AMPS		A: 89.5		B: 88.8		C: 73.8							

PANELBOARD MS3 SCHEDULE													
SEE POWER RISER DIAGRAM FOR RATINGS													
LOAD SERVED	LOAD (AMPS)			BKR TRIP	CKT NO.	PHASE A B C			CKT NO.	BKR TRIP	LOAD (AMPS)		
	A	B	C			A	B	C			A	B	C
REC PIN AND SLEEVE	64.0			80/3P	1				2	30/2P	24.0		
		64.0							6	20/1P			1.5
			64.0						8	80/3P			
REC. POT. WAT. CAB.	1.5			20/1P	7								
LTG POT. WAT. CAB.		0.8		20/1P	9								
HTR. POT. WAT. CAB.			8.3	20/1P	11								
SPARE				20/1P	13				14	30/2P			
SPARE				20/1P	15								
SPARE				20/1P	17				18	20/1P			
SPARE				20/1P	19				20	20/1P			
SPARE				20/1P	21				22	20/1P			
SPARE				20/1P	23				24	20/1P			
TOTAL	65.5	64.8	72.3								24.0	24.0	1.5
TOTAL CONNECTED AMPS		A: 89.5		B: 88.8		C: 73.8							

PANELBOARD HP2 SCHEDULE													
SEE POWER RISER DIAGRAM FOR RATINGS													
LOAD SERVED	LOAD (AMPS)			BKR TRIP	CKT NO.	PHASE A B C			CKT NO.	BKR TRIP	LOAD (AMPS)		
	A	B	C			A	B	C			A	B	C
GPU RECEIPT	108.0			150/3P	1				2	70/3P	43.8		
POLE 2		108.0										42.8	
			108.0										36.3
SPACE ONLY				20/1P	7				8	20/1P			
SPACE ONLY				20/1P	9				10	20/1P			
SPACE ONLY				20/1P	11				12	20/1P			
TOTAL	108.0	108.0	108.0								43.8	42.8	36.3
TOTAL CONNECTED AMPS		A: 151.8		B: 150.8		C: 144.3							

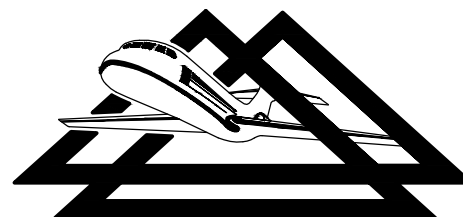
PANELBOARD HP4 SCHEDULE													
SEE POWER RISER DIAGRAM FOR RATINGS													
LOAD SERVED	LOAD (AMPS)			BKR TRIP	CKT NO.	PHASE A B C			CKT NO.	BKR TRIP	LOAD (AMPS)		
	A	B	C			A	B	C			A	B	C
GPU RECEIPT.	108.0			150/3P	1				2	70/3P	38.8		
POLE 4		108.0										38.5	
			108.0										32.0
SPACE ONLY				20/1P	7				8	20/1P			
SPACE ONLY				20/1P	9				10	20/1P			
SPACE ONLY				20/1P	11				12	20/1P			
TOTAL	108.0	108.0	108.0								38.8	38.5	32.0
TOTAL CONNECTED AMPS		A: 146.8		B: 146.5		C: 140.0							

PANELBOARD MS2 SCHEDULE														
SEE POWER RISER DIAGRAM FOR RATINGS														
LOAD SERVED	LOAD (AMPS)			BKR TRIP	CKT NO.	PHASE			CKT NO.	BKR TRIP	LOAD (AMPS)			LOAD SERVED
	A	B	C			A	B	C			A	B	C	
REC PIN AND SLEEVE	64.0			80/3P	1				2	30/2P	24.0			REC NEMA L6-30R
		64.0										24.0		
			64.0						6	20/1P			1.5	REC NEMA 5-20R
REC POT. WAT. CAB.	1.5			20/1P	7				8	80/3P				SPARE
LTG POT. WAT. CAB.		0.8		20/1P	9									
HTR. POT. WAT. CAB.			8.3	20/1P	11									
GEN BATT. CHGR.	10.0			20/3P	13				14	30/2P				SPARE
GEN BLOCK HTR.		10.0		20/2P	15									
			10.0						18	20/1P				SPARE
GENSET RECEPT.	1.5			20/1P	19				20	20/1P				SPARE
SPARE				20/1P	21				22	20/1P				SPARE
SPARE				20/1P	23				24	20/1P				SPARE
TOTAL	77.0	74.8	82.3								24.0	24.0	1.5	TOTAL
TOTAL CONNECTED AMPS				A: 101.0			B: 98.8			C: 83.8				



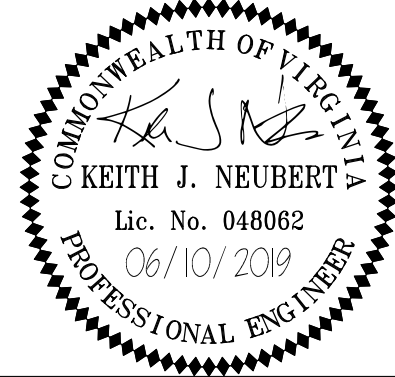
POWER RISER DIAGRAM
NO SCALE

NO.	REVISIONS	BY	APP.	DATE



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EXPAND TERMINAL APRON	AIP NO. 3-51-0004-047-2018	JOB NO. 17018
POWER RISER DIAGRAM	DRAWN BY: CMD	SHEET
CHARLOTTESVILLE ALBEMARLE AIRPORT	DESIGNED BY: CMD	E602-3
	SCALE: NONE	DATE: MAY 2019

Revised Proposal Form

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Revised Proposal

Name of Bidder

For

Expand Apron

At

Charlottesville-Albemarle Airport
Charlottesville, Virginia

Submitted To

Charlottesville-Albemarle Airport Authority

AIP Project No. 3-51-0004-047-2018

DOAV Project No. CF0004-47

In compliance with the Invitation for Bids, the undersigned hereby proposes to furnish the materials and labor and to perform the work for the completion of items listed in the schedule included herein in strict conformance with the Invitation for Bids (advertisement), Plans, Construction Details, General and Special Provisions, Technical Specifications and all other contract documents for the consideration of the prices quoted in the following schedule of bid items. The undersigned agrees, upon receipt of written notice of award, that it will execute a contract in accordance with the bid as accepted and give the required contract bonds with good and sufficient surety, within fifteen (15) calendar days after receipt of notice of formal award of contract and presentation of the prescribed forms.

It is agreed that the undersigned has informed itself fully in regard to all conditions pertaining to the place where the work is to be done, that it has examined the plans and specifications for the work and contractual documents thereto, and has read all the special provisions furnished prior to the opening of bids, and that it has satisfied itself relative to the work to be performed.

It is agreed that the description under each item, being stated, implies although it does not mention, all incidentals and that the prices stated are intended to cover all such work, materials, and incidentals as constitute bidders obligations as described in the specifications, and any details not specifically mentioned, but evidently included in the contract shall be compensated for in the item which most logically includes it.

It is understood that this proposal is submitted for the purpose of obtaining the work included in subject project at the Airport. Said work includes the following general items:

1. Expand Apron

Said work is described in the project contract documents which also include the place, date, and time of opening proposals.

It is understood that separate contracts on individual schedules of work may be awarded, when included in the bid documents.

It is understood that all workmanship and materials under all items of work are guaranteed for one year from the date of final acceptance.

It is understood that the Owner reserves the right to accept or reject any or all bids and waive informalities.

It is understood that the quantities of work to be done are approximate only and are intended principally to serve as a guide in evaluation of proposals, with the right reserved by the Owner to delete minor bid items.

The undersigned agrees, that if awarded the contract, it will commence the work not later than ten (10) days from receipt of the Notice to Proceed and that it will complete the work within the time stipulated in this proposal.

It is understood that for each calendar day that any work remains incomplete after the contract time (including all extensions and adjustments as provided in the subsection titled DETERMINATION AND EXTENSION OF CONTRACT TIME) the sum of Three Thousand Dollars (\$3,000.00) as liquidated damages will be deducted from any money due or to become due to the Contractor or its Surety. Such deducted sums shall not be deducted as a penalty but shall be considered as liquidation of a reasonable portion of damages that will be incurred by the Owner should the Contractor fail to complete the work in the time provided in its contract.

Enclosed is security as required, consisting of (cash, certified check, or bid bond) _____ payable to the Charlottesville-Albemarle Airport Authority, in the amount of \$ _____

This amount equals 5 percent of the total amount bid submitted by the Contractor.

It is understood that this project is funded by federal, state, and local monies and the Contractor shall be subject to all laws and regulations applicable to recipients of such funds.

The Contractor shall be a licensed Contractor registered with the Commonwealth of Virginia, shall list its registration number at the end of the proposal in the designated location and shall enclose a copy of its licensing certificate. In the event that the registration is pending, or in process, a statement as to the status shall be included instead.

PROPOSAL

AIP Project No. 3-51-0004-047-2018
DOAV Project No. CF0004-47
Delta Project No. 17018

BASE BID

Date: _____

Bid Proposal Summary For All Work Depicted In The Plans And Specifications

ITEM NO.	APPROX. QUANTITY	ITEM WITH UNIT PRICE WRITTEN IN WORDS	UNIT PRICES IN FIGURES	EXTENDED TOTAL
			DOLLARS CENTS	DOLLARS CENTS
1 P-100	1 LS	MOBILIZATION PER LUMP SUM		
2 P-140	1,500 SY	BITUMINOUS PAVEMENT REMOVAL PER SQUARE YARD		
3 P-140	1,000 SY	CONCRETE PAVEMENT REMOVAL PER SQUARE YARD		
4 P-150	17 EA	REMOVE BASE MOUNTED MITL PER EACH		
5 P-150	11 EA	REMOVE BASE MOUNTED MITL FIXTURE PER EACH		
6 P-150	6 EA	REMOVE EXISTING AIRFIELD GUIDANCE SIGN PER EACH		
7 P-150	175 LF	REMOVE DRAINAGE PIPE PER LINEAR FOOT		
8 P-150	1 EA	REMOVE DROP INLET PER EACH		
9 P-150	450 LF	REMOVE FENCE PER LINEAR FOOT		

ITEM NO.	APPROX. QUANTITY	ITEM WITH UNIT PRICE WRITTEN IN WORDS	UNIT PRICES IN FIGURES	EXTENDED TOTAL
			DOLLARS CENTS	DOLLARS CENTS
10 P-152	4,000 CY	MUCK EXCAVATION - TYPE A WITH BACKFILL PER CUBIC YARD		
11 P-152	1,000 CY	MUCK EXCAVATION - TYPE B WITHOUT BACKFILL PER CUBIC YARD		
12 P-152	19,000 CY	EMBANKMENT IN-PLACE PER CUBIC YARD		
13 P-152	2 EA	TEMPORARY STONE CONSTRUCTION ENTRANCE PER EACH		
14 P-156	1 EA	TEMPORARY SEDIMENT TRAP PER EACH		
15 P-156	3 EA	INLET PROTECTION PER EACH		
16 P-156	400 LF	TEMPORARY DIVERSION DIKE PER LINEAR FOOT		
17 P-156	1,500 LF	SILT FENCE PER LINEAR FOOT		
18 P-156	1 LS	EROSION AND SEDIMENT CONTROL (BORROW AREA) PER LUMP SUM		

ITEM NO.	APPROX. QUANTITY	ITEM WITH UNIT PRICE WRITTEN IN WORDS	UNIT PRICES IN FIGURES	EXTENDED TOTAL
			DOLLARS CENTS	DOLLARS CENTS
19 P-209	3,400 CY	CRUSHED AGGREGATE BASE COURSE PER CUBIC YARD		
20 P-304	15,800 SY	CEMENT TREATED BASE COURSE (6") PER SQUARE YARD		
21 P-401	850 TN	BITUMINOUS SURFACE COURSE PER TON		
22 P-405	4,000 SY	SEPARATION FABRIC PER SQUARE YARD		
23 P-501	11,500 SY	PORTLAND CEMENT CONCRETE PAVEMENT (13") PER SQUARE YARD		
24 P-501	1,500 SY	PORTLAND CEMENT CONCRETE PAVEMENT (13") (REINFORCED) PER SQUARE YARD		
25 M-103	2 EA	CLOSED RUNWAY MARKER (OWNER FURNISHED) PER EACH		
26 M-103	1 EA	CLOSED TAXIWAY MARKER (CONTRACTOR FURNISHED) PER EACH		
27 M-107	400 LF	AVIATION BARRICADES (CONTRACTOR FURNISHED) PER LINEAR FOOT		

ITEM NO.	APPROX. QUANTITY	ITEM WITH UNIT PRICE WRITTEN IN WORDS	UNIT PRICES IN FIGURES	EXTENDED TOTAL
			DOLLARS CENTS	DOLLARS CENTS
28 M-122	1 LS	POTABLE WATER CABINETS PER LUMP SUM		
29 P-605	20,000 LF	JOINT SEALING FILLER PER LINEAR FOOT		
30 P-607	2,100 LF	EXPANSION JOINT PER LINEAR FOOT		
31 P-619	3,000 SF	PAINT REMOVAL (95-100%) PER SQUARE FOOT		
32 P-620	700 SF	INITIAL TAXIWAY MARKING (YELLOW, WITH BEADS) PER SQUARE FOOT		
33 P-620	1,600 SF	PERMANENT TAXIWAY MARKING (YELLOW, WITH BEADS) PER SQUARE FOOT		
34 P-620	1,500 SF	OUTLINE MARKING (BLACK, NO BEADS) PER SQUARE FOOT		
35 P-620	4,500 SF	INITIAL APRON STALL MARKING PER SQUARE FOOT		
36 P-620	4,500 SF	PERMANENT APRON STALL MARKING PER SQUARE FOOT		

ITEM NO.	APPROX. QUANTITY	ITEM WITH UNIT PRICE WRITTEN IN WORDS	UNIT PRICES IN FIGURES	EXTENDED TOTAL
			DOLLARS CENTS	DOLLARS CENTS
37 F-162	650 LF	CHAIN-LINK FENCE, 8' GALVINIZED PER LINEAR FOOT		
38 F-162	350 LF	TEMPORARY FENCE, 8' PER LINEAR FOOT		
39 D-701	208 LF	18" RCP, CLASS V PER LINEAR FOOT		
40 D-701	48 LF	24" RCP, CLASS V PER LINEAR FOOT		
41 D-701	232 LF	36" RCP, CLASS V PER LINEAR FOOT		
42 D-702	465 LF	8" TRENCH DRAIN PER LINEAR FOOT		
43 D-705	500 LF	6" PVC UNDERDRAIN PER LINEAR FOOT		
44 D-751	2 EA	MANHOLE (VDOT MH-1) PER EACH		
45 D-751	2 EA	DROP INLET (VDOT DI-1) PER EACH		

ITEM NO.	APPROX. QUANTITY	ITEM WITH UNIT PRICE WRITTEN IN WORDS	UNIT PRICES IN FIGURES	EXTENDED TOTAL
			DOLLARS CENTS	DOLLARS CENTS
46 D-751	1 EA	ADJUST EXISTING MANHOLE PER EACH		
47 T-901	2 AC	PERMANENT SEEDING PER ACRE		
48 T-908	2 AC	MULCHING PER ACRE		
49 L-108	1,200 LF	NO. 8 AWG L-824C CABLE, 5KV PER LINEAR FOOT		
50 L-108	700 LF	NO. 6 AWG SOLID BARE COPPER COUNTERPOISE WIRE PER LINEAR FOOT		
51 L-108	16,000 LF	FIBER OPTIC LINE SM CABLE PER LINEAR FOOT		
52 L-108	4,000 LF	FIBER OPTIC LINE INNERDUCT PER LINEAR FOOT		
53 L-110	1,000 LF	CONCRETE ENCASED ELECTRICAL DUCT BANK, 1 WAY-4"PVC PER LINEAR FOOT		
54 L-110	700 LF	NON-ENCASED ELECTRICAL CONDUIT, 1-WAY - 2" PVC CONDUIT PER LINEAR FOOT		

ITEM NO.	APPROX. QUANTITY	ITEM WITH UNIT PRICE WRITTEN IN WORDS	UNIT PRICES IN FIGURES	EXTENDED TOTAL
			DOLLARS CENTS	DOLLARS CENTS
55 L-110	250 LF	ELECTRICAL CONDUIT, 2-WAY - 2" PVC CONDUIT (FIBER OPTIC) _____ _____ PER LINEAR FOOT		
56 L-110	450 LF	CONDUIT UNDER NEW PAVEMENT 2"PVC (FIBER OPTIC) _____ _____ PER LINEAR FOOT		
57 L-115	5 EA	AIRCRAFT RATED HANHOLE _____ _____ PER EACH		
58 L-115	1 EA	ADJUST EXISTING HANDHOLE _____ _____ PER EACH		
59 L-125	10 EA	L-861T(L) BASE MOUNTED MITL (LED) _____ _____ PER EACH		
60 L-125	4 EA	L-853 TYPE II RETROREFLECTIVE MARKER _____ _____ PER EACH		
61 R-309	1,000 CY	AGGREGATE BASE COURSE, 21A STONE _____ _____ PER CUBIC YARD		
62 R-309	5,000 CY	AGGREGATE SUBBASE COURSE, #57 STONE _____ _____ PER CUBIC YARD		
63 R-315	300 TN	ASPHALT CONCRETE BASE COURSE, TYPE BM-25.0 _____ _____ PER TON		

ITEM NO.	APPROX. QUANTITY	ITEM WITH UNIT PRICE WRITTEN IN WORDS	UNIT PRICES IN FIGURES	EXTENDED TOTAL
			DOLLARS CENTS	DOLLARS CENTS
64 R-315	800 TN	ASPHALT SURFACE COURSE, TYPE SM-12.5A PER TON		
65 R-505	500 LF	VDOT MB-7D BARRIER WALL PER LINEAR FOOT		
66 SP-35	1 LS	TEST PIT PER LUMP SUM		
67 SP-37	600 SY	SYNTHETIC MULCH BEDDING PER SQUARE YARD		
68 SP-38	1 LS	APRON LIGHTING ELECTRICAL ITEMS (PACE ELECTRIC) PER LUMP SUM		
69 SP-39	1 LS	RETAINING WALL (STRUCTURAL) PER LUMP SUM		

Contract Time: 270 Calendar Days

Liquidated Damages: \$3,000.00/Calendar Day

Total Base Bid Amount \$ _____

FEDERAL CONTRACT LANGUAGE CERTIFICATE

In addition to the specific Federal Contract Provisions listed within this proposal form, the bidder/offeror certifies by signing and submitting this bid or proposal, that they have read, understand and will comply with all of the Federal Contract Provisions contained within the project documents as listed by reference and qualified below:

All Contracts Regardless of Funding Source

- a. Civil Rights – General

All AIP Funded Contracts

- a. Access to Records and Reports
- b. Affirmative Action Plan
- c. Buy American Preferences
- d. Civil Rights – General
- e. Civil Rights - Title VI
- f. Disadvantaged Business Enterprises
- g. Energy Conservation Requirements
- h. Federal Fair Labor Standards Act (Minimum Wage)
- i. Lobbying and Influencing Federal Employees
- j. Occupational Safety and Health Act
- k. Rights to Inventions
- l. Trade Restriction Clause
- m. Tax Delinquency and Felony Convictions
- n. Veteran's Preference

Additional Provisions for AIP Funded Contracts that are \$2,000 and greater

- a. Copeland Anti-Kickback
- b. Davis Bacon Requirements

Additional Provisions for AIP Funded Contracts that are \$3,500 and greater

- a. Distracted Driving

Additional Provisions for AIP Funded Contracts that are \$10,000 and greater

- a. Affirmative Action
- b. Equal Employment Opportunity
- c. Nonsegregated Facilities
- d. Termination of Contract

Additional Provisions for AIP Funded Contracts that are \$25,000 and greater

- a. Debarment and Suspension

Additional Provisions for AIP Funded Contracts that are \$100,000 and greater

- a. Breach of Contract
- b. Clean Air and Water Pollution Controls
- c. Contract Work Hours and Safety Standards

Name of Bidder _____

Signature _____

Name (type or print) _____

Official title _____ Date _____

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CERTIFICATE OF BUY AMERICAN COMPLIANCE FOR MANUFACTURED PRODUCTS
(Non-building construction projects, equipment acquisition projects)

As a matter of bid responsiveness, the bidder or offeror must complete, sign, date, and submit this certification statement with their proposal. The bidder or offeror must indicate how they intend to comply with 49 USC § 50101 by selecting one on the following certification statements. These statements are mutually exclusive. Bidder must select one or the other (not both) by inserting a checkmark (✓) or the letter “X”.

- ☐ Bidder or offeror hereby certifies that it will comply with 49 USC § 50101 by:
- a) Only installing steel and manufactured products produced in the United States, or;
 - b) Installing manufactured products for which the FAA has issued a waiver as indicated by inclusion on the current FAA Nationwide Buy American Waivers Issued listing, or;
 - c) Installing products listed as an Excepted Article, Material or Supply in Federal Acquisition Regulation Subpart 25.108.

By selecting this certification statement, the bidder or offeror agrees:

1. To provide to the Owner evidence that documents the source and origin of the steel and manufactured product.
2. To faithfully comply with providing US domestic product
3. To furnish US domestic product for any waiver request that the FAA rejects
4. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

- ☐ The bidder or offeror hereby certifies it cannot comply with the 100% Buy American Preferences of 49 USC § 50101(a) but may qualify for either a Type 3 or Type 4 waiver under 49 USC § 50101(b). By selecting this certification statement, the apparent bidder or offeror with the apparent low bid agrees:

1. To submit to the Owner within 15 calendar days of the bid opening, a formal waiver request and required documentation that support the type of waiver being requested.
2. That failure to submit the required documentation within the specified timeframe is cause for a non-responsive determination may result in rejection of the proposal.
3. To faithfully comply with providing US domestic products at or above the approved US domestic content percentage as approved by the FAA.
4. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

Required Documentation

Type 3 Waiver - The cost of the item components and subcomponents produced in the United States is more than 60% of the cost of all components and subcomponents of the “item”. The required documentation for a type 3 waiver is:

- a) Listing of all product components and subcomponents that are not comprised of 100% US domestic content (Excludes products listed on the FAA Nationwide Buy American

Waivers Issued listing and products excluded by Federal Acquisition Regulation Subpart 25.108; products of unknown origin must be considered as non-domestic products in their entirety).

- b) Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly at place of manufacture.
- c) Percentage of non-domestic component and subcomponent cost as compared to total “item” component and subcomponent costs, excluding labor costs associated with final assembly at place of manufacture.

Type 4 Waiver – Total cost of project using US domestic source product exceeds the total project cost using non-domestic product by 25%. The required documentation for a type 4 of waiver is:

- a) Detailed cost information for total project using US domestic product
- b) Detailed cost information for total project using non-domestic product

False Statements: Per 49 USC § 47126, this certification concerns a matter within the jurisdiction of the Federal Aviation Administration and the making of a false, fictitious or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code.

Date

Signature

Company Name

Title

CERTIFICATION OF OFFERER/BIDDER REGARDING DEBARMENT

(2 CFR Part 180 (subpart C); 2 CFR Part 2000; DOT Order 4200.5)
1/29/2016

By submitting a bid/proposal under this solicitation, the bidder or offeror certifies that neither it nor its principals are presently debarred or suspended by any Federal department or agency from participation in this transaction.

CERTIFICATION OF LOWER TIER CONTRACTORS REGARDING DEBARMENT

The successful bidder, by administering each lower tier subcontract that exceeds \$25,000 as a “covered transaction”, must verify each lower tier participant of a “covered transaction” under the project is not presently debarred or otherwise disqualified from participation in this federally assisted project. The successful bidder will accomplish this by:

1. Checking the System for Award Management at website: <http://www.sam.gov>
2. Collecting a certification statement similar to the Certificate Regarding Debarment and Suspension (Bidder or Offeror), above.
3. Inserting a clause or condition in the covered transaction with the lower tier contract

If the FAA later determines that a lower tier participant failed to disclose to a higher tier participant that it was excluded or disqualified at the time it entered the covered transaction, the FAA may pursue any available remedies, including suspension and debarment of the non-compliant participant.

Date

Signature

Company Name

Title

CERTIFICATION REGARDING LOBBYING

(31 USC Par 1352 – Byrd Anti-Lobbying Amendment; 2 CFR Part 200, Appendix II (J); 49 CFR Part 20, Appendix A)
January 29, 2016

The bidder or offeror certifies by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the Bidder or Offeror, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, “Disclosure Form to Report Lobbying,” in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Date

Signature

Company Name

Title

TRADE RESTRICTION CERTIFICATION

(49 USC Par 50104; 49 CFR Part 30)
January 29, 2016

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 as published by the Office of the United States Trade representative (U.S.T.R.);
- 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 U.S.T.R; and
- c. has not entered into any subcontract for any product to be used on the Federal on the project that is produced in a foreign country included on the list of countries that discriminate against U.S. firms published by the U.S.T.R.

This certification concerns a matter within the jurisdiction of an agency of the United States of America and the making of a false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code, Section 1001.

The Offeror/Contractor must provide immediate written notice to the Owner if the Offeror/Contractor learns that its certification or that of a subcontractor was erroneous when submitted or has become erroneous by reason of changed circumstances. The Contractor must require subcontractors provide immediate written notice to the Contractor if at any time it learns that its certification was erroneous by reason of changed circumstances.

Unless the restrictions of this clause are waived by the Secretary of Transportation in accordance with 49 CFR 30.17, no contract shall be awarded to an Offeror or subcontractor:

- (1) who is owned or controlled by one or more citizens or nationals of a foreign country included on the list of countries that discriminate against U.S. firms published by the U.S.T.R. or
- (2) whose subcontractors are owned or controlled by one or more citizens or nationals of a foreign country on such U.S.T.R. list or
- (3) who incorporates in the public works project any product of a foreign country on such U.S.T.R. list;

Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by this provision. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

The Offeror agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification without modification in in all lower tier subcontracts. The contractor may rely

on the certification of a prospective subcontractor that it is not a firm from a foreign country included on the list of countries that discriminate against U.S. firms as published by U.S.T.R, unless the Offeror has knowledge that the certification is erroneous.

This certification is a material representation of fact upon which reliance was placed when making an award. If it is later determined that the Contractor or subcontractor knowingly rendered an erroneous certification, the Federal Aviation Administration may direct through the Owner cancellation of the contract or subcontract for default at no cost to the Owner or the FAA.

Date

Signature

Company Name

Title

CERTIFICATION OF OFFERER/BIDDER REGARDING TAX DELINQUENCY AND FELONY CONVICTIONS

The applicant must complete the following two certification statements. The applicant must indicate its current status as it relates to tax delinquency and felony conviction by inserting a checkmark (✓) in the space following the applicable response. The applicant agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification in all lower tier subcontracts.

Certifications

- a) The applicant represents that it is () is not () a corporation that has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.
- b) The applicant represents that it is () is not () is not a corporation that was convicted of a criminal violation under any Federal law within the preceding 24 months.

Term Definitions

Felony conviction: Felony conviction means a conviction within the preceding twenty-four (24) months of a felony criminal violation under any Federal law and includes conviction of an offense defined in a section of the U.S. code that specifically classifies the offense as a felony and conviction of an offense that is classified as a felony under 18 U.S.C. § 3559.

Tax Delinquency: A tax delinquency is any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.

Date

Signature

Company Name

Title

DISADVANTAGED BUSINESS ENTERPRISE UTILIZATION: The undersigned has satisfied the requirements of the specifications in the following manner (please check the appropriate space):

- ☐ The bidder is committed to a minimum of 10.3% DBE utilization on this project.
- ☐ The bidder (if unable to meet the goal of 10.3% DBE) is committed to a minimum of _____% DBE utilization on this project and has submitted documentation showing good faith effort.

Name of Bidder _____

Signature _____

Name (type or print) _____

Official title _____ Date _____

DBE LETTER OF INTENT

Name of Bidder's Firm: _____

Bidder's Address: _____

City: _____ State _____ Zip _____

Name of DBE Firm: _____

Address: _____

City: _____ State _____ Zip _____

Telephone: (____) _____ State DBE Certification Number: _____

Description of work to be performed by DBE firm:

--

Bidder/offeree intends to utilize the above-named minority firm for the work described above. The estimated amount of work is valued at \$_____.

If the above-named bidder is not determined to be the successful bidder, the Letter of Intent shall be null and void.

(Copy this page for each DBE subcontractor)

Fostering Small Business Participation	
Sponsor's Name:	Charlottesville-Albemarle Airport Authority
Airport Name:	Charlottesville-Albemarle Airport
City, State:	Charlottesville, Virginia
AIP Number:	3-51-004-047-2018
Federal Fiscal Year:	FY 2019

In accordance with the Sponsor's DBE program, the following detailed list shall be completed by Prime Contractor(s) for Construction Work Items. The firms listed below may or may not be certified DBEs.

Small Business Firms to be Utilized (Name, Address, Phone)		Work to be Performed	Total Estimated
Name			
Address			
City, St, Zip			
Telephone			
Is the firm a Certified DBE?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Name			
Address			
City, St, Zip			
Telephone			
Is the firm a Certified DBE?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Name			
Address			
City, St, Zip			
Telephone			
Is the firm a Certified DBE?	<input type="checkbox"/> Yes <input type="checkbox"/> No		

(Duplicate form as necessary.)

BIDDERS LIST

All firms bidding or quoting on subcontracts for this
DOT-assisted project are listed below.

<u>Firm Name</u>	<u>Address</u>	<u>Certified DBE or SBE?</u> (DBE, SBE, No)	<u>Age of Firm</u>	<u>GRS*</u>

*GRS – Annual Gross receipts

Enter 1 for less than \$1 million

Enter 2 for more than \$1 million, less than \$5 million

Enter 3 for more than \$5 million, less than \$10 million

Enter 4 for more than \$10 million, less than \$15 million

Enter 5 for more than \$15 million.

VIRGINIA
CERTIFICATION OF NON-COLLUSION

My signature certifies that the accompanying bid is not the result of or affected by, any act of collusion with another person or company engaged in the same line of business or commerce, or any act of fraud punishable under Title 18.2, Chapter 12, Article 1.1 of the **Code of Virginia**, 1950, as amended. Furthermore, I understand that fraudulent and collusive bidding is a crime under the Virginia Governmental Frauds Act, the Virginia Government Bid Rigging Act, the Virginia Antitrust Act, and Federal Law and can result in fines, prison sentences, and civil damage awards.

I agree to abide by all conditions of this bid and certify that I am authorized to sign this bid for the bidder.

Name of Bidder _____

Signature _____

Name (type or print) _____

Official title _____ Date _____

The undersigned hereby acknowledges the receipt of the following Addenda to the Contract Documents.

Addendum No. One Issued _____(DATE)

Addendum No. Two Issued _____(DATE)

Addendum No. Three Issued _____(DATE)

Addendum No. Four Issued _____(DATE)

Addendum No. Five Issued _____(DATE)

Name of Bidder _____

Physical Business Address
(No P. O. Boxes) _____

Email address: _____

Signature _____

Name (type or print) _____

Official title _____

Date _____

Telephone No. (_____) _____
Area Code

VIRGINIA CONTRACTOR'S LICENSE NO: _____

****END OF REVISED PROPOSAL****

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Bid Bond

Policy Number: _____

Effective Date: _____

KNOW ALL MEN BY THESE PRESENTS, THAT WE _____
_____ as Principal, hereinafter called the Principal, and _____
_____ a corporation duly organized under the laws of the State
of _____ as Surety, hereinafter called the Surety, are held and firmly bound unto
Charlottesville-Albemarle Airport Authority, hereinafter called the Obligee, in the sum of
_____ Dollars (\$ _____)
for the payment of which sum well and truly to be made, the said Principal and the said Surety, bind
ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by
these presents.

WHEREAS, the principal has submitted a bid for the Expand Apron and associated items for work at the
Charlottesville-Albemarle Airport in accordance with Plans and Specifications prepared by Delta Airport
Consultants, Inc., 9711 Farrar Court, Suite 100, Richmond, Virginia 23236, Telephone: (804) 275-8301,
Fax: (804) 275-8371.

NOW, THEREFORE, if the Obligee shall accept the bid of the Principal and the principal shall enter into
a Contract with the Obligee in accordance with the terms of such bid, and give such bond or bonds as may
be specified in the bidding or Contract Documents with good and sufficient surety for the faithful
performance of such Contract and for the prompt payment of labor and material furnished in the
prosecution thereof, or in the event of the failure of the principal to enter such Contract and give such
bond or bonds, if the principal shall pay to the Obligee the difference not to exceed the penalty hereof
between the amount specified in said bid and such larger amount for which the Obligee may in good faith
contract with another party to perform the Work covered by said bid, then this obligation shall be null and
void, otherwise to remain in full force and effect.

Signed and sealed this _____ day of _____ 2019.

(Principal) (Seal)

(Title)

(Witness)

(Surety) (Seal)

(Title)

(Witness)