




Airport

DATE: February 19, 2020

FROM: Greg Haug, Airport Director 

ITEM: Consider Change Order #7 with Northern Improvement Company (NIC) for Runway 13-31 Phase 3.

REQUEST

Please place this item on the 2/25/2020 City Commission meeting agenda.

BACKGROUND INFORMATION

On September 18, 2018, the Board approved award of bids to General Contractor NIC for Runway 13/31 Reconstruction Phase 3, third year of construction (Federal Aviation Administration (FAA) Phase 4). Even though last summer's rains caused many delays the project is substantially complete and Runway 13-31 is open. Work remaining in 2020 includes topsoil placement, and fine grading in various areas, seeding and mulching in various areas, fencing and traffic control removal and punchlist items. As part of Change order #6 on December 17, 2019 the Board extended the Final Acceptance date to August 1, 2020 to allow the remaining work to be completed in more suitable weather.

Change Order 7 deletes the installation of the cable concrete mats with geotextile fabric (and associated items) in the Northwest detention area. The cable concrete mats have been manufactured and are being stored in Forterra's (supplier) Menoken plant yard. This change order only removes the installation of the cable concrete mats from the project and compensates the Contractor for stockpiling the cable concrete and all items necessary for installation on a future project. Change Order 7 reduces the project cost by \$68,139.08 from \$10,877,616.75 to \$10,809,477.67. The reduction in costs appears to be reasonable. FAA concurs with Change Order 7. Change Order 7 adds no time.

Airport Staff has been working with FAA to approve additional work to improve drainage in the Northwest detention pond because the area is very flat and the water table is so high. The FAA has agreed that the Airport should proceed to design, develop plan/specs to bid a herring-bone drain tile system and including the installation of the cable concrete mat separately under a new bid process. The FAA ADO concurs that the airport sponsor can request the remaining balance of Federal funds from AIP 60 to reimburse for the newly bid drainage work up to the current maximum grant obligation.

This project has been justified with the FAA. FAA agrees that installation of drain tile and a small lift station are necessary to properly drain this area and eliminate the likelihood that the detention pond will reestablish itself as a wildlife attractant. The Board can expect Airport Staff to bring bids for the additional drainage work later this spring.

RECOMMENDED CITY COMMISSION ACTION

Approve Change Order #7 to the September 24, 2018 agreement with NIC for Runway 13/31 Reconstruction Phase 3.

STAFF CONTACT INFORMATION

Greg Haug, Airport Director, 355-1808 or ghaug@bismarcknd.gov

Enclosure:

1. Change Order #7 to the September 24, 2018 agreement with NIC.

CONTRACT CHANGE ORDER FORM

DEPARTMENT

Contract between the City of Bismarck and NIC

Contract Number: 2018-42 Change Order Number: #7

Project/Subproject: AP6, AIP 59, CONST
AP6, AIP 60, CONST
AP6, AIP 60 NON-AIP CONST Original Contract Amt: \$10,695,964.10

Project Description: RECONSTRUCT PORTION OF RUNWAY 13-31 PHASE 3 (FAA PHASE 4)

Previous Contract Amount: \$10,877,616.75

Change Order Amount: MINUS (\$68,139.08) NEW TOTAL: \$10,809,477.67
COMPLETE: DEC 13, 2019 PREREQUISITES TO FINAL ACCEPTANCE DATE: AUGUST 1, 2020

Original Contract Date: SEPT 24, 2018 Change in Contract Timeline: NA

Within Project Scope: (Y) / N*

Within Project Funding: (Y) / N**

**If not within project scope, attach description of change in scope for Board approval.*

***If not within project funding, attach revised Project Budget for Board approval.*

Type of Change Order

Non Design-related Change Order: These change orders include unforeseen conditions, code-related issues, and building inspector changes.

Design-related Change Order: These change orders include unforeseen conditions that affect the appearance, layout, functionality, dimensions, and/or quality of the project.

Emergency Field Condition Change Orders: These change orders include any condition that causes an emergency situation where safety or other immediate losses may occur.

Other: (describe)

Project Manager Signature: (<\$15,000) _____
Date

Department Head Signature: (<\$25,000) _____
Date

ADMINISTRATION

City Administrator Signature: (<\$50,000) _____
Date

Add to Commission Consent Agenda

COMMISSION APPROVAL

Commission Approval Date: _____

Attach minutes for Commission Approval

FISCAL

Comments: _____
Signature Date Completed

TO ALL DEPARTMENTS: Please attach a copy of the change order

Timothy Thorsen

From: Holzer, Mark (FAA) <Mark.Holzer@faa.gov>
Sent: Friday, February 7, 2020 8:30 AM
To: Timothy Thorsen
Cc: Gregory Haug; 'tom.neigum@kljeng.com'; Anderson, David P (FAA); Anderson, David P (FAA); Lares, Sheri (FAA)
Subject: BIS Runway 13-31 Reconstruction Phase 3 Change order NIC #7
Attachments: NIC-CO7-Combined.pdf

Tim

The FAA concurs with BIS Runway 13-31 Reconstruction- Phase 3 for AIP 3-38-0003-060-2018 as Northern Improvement proposed Change Order #7 for the Stockpile of CC-45 Cable Concrete Mat with Geotextile Fabric as follows:

In the west detention area, the Owner has elected to perform additional work on a future project. As a result, the Contractor will not be required to install the cable concrete mat with geotextile fabric (and associated items) in this area. The cable concrete mats have been manufactured and are being stored in Forterra's (supplier) Menoken plant yard.

This change order removes the cable concrete mats as installed from the project and compensates the Contractor for stockpiling the CC-45 cable concrete with geotextile fabric, cable concrete stainless steel clamps, cable concrete duckbill anchors, and all items necessary to install the cable concrete on a future project. Prior to payment for the stockpiled materials, the Contractor will be required to provide documentation of the conditions for payment as outlined in General Provision Section 90-07, Payment for Materials on Hand. The cable concrete shall be stockpiled in Forterra's Menoken yard until such time as the material is utilized on the future west detention area project by the Owner and shall be shielded from any deterioration per the manufacturer's recommendation. The Contractor shall stockpile the cable concrete stainless steel clamps and duckbill anchors in a location on the Airport that is acceptable to the Owner.

Regarding the west detention area, the Contractor will be required to complete the grading as originally planned. In the area where the cable concrete with geotextile fabric was to be placed, the Contractor shall place topsoil in place of the cable concrete to provide positive drainage in this area.

In review of the change order that provided a cost price analysis performed by the sponsor, the FAA DMA ADO finds the amount to be fair and reasonable.

The following limitations apply to this action:

1- This determination is solely for the purpose of establishing eligibility of costs under the AIP or PFC program. This approval does not represent a commitment of Federal funds in addition to the original grant obligation. Please note the Supplemental Appropriation Grant No. 3-38-003-060-2018 Amendment No. 1 set forth in the Grant Agreement dated September 21, 2018 applies to this change order. Funding may be limited for this grant pending your future closeout final project costs and if availability of funding from this grant.

2-The incorporation of any non-participating work items must not directly or indirectly result in any additional cost to the AIP-eligible portion of the project. Please maintain a separate and accurate cost accounting of any non-participating work that will permit a third party auditor to verify proper allocation of costs.

3-The CATX document appears to include all the projects reflected in these change orders and if changes later are proposed, the sponsor shall update the NEPA determination.

We shall place your final accepted NIC change order #7 – Phase 3 for Rwy 13/31 in the project files for these grants.

Your Construction Plan as-built drawings shall include this NIC Change order 7 as applicable.

Please forward a copy of the executed changes to my attention as soon as it is available and fully executed.

Mark J. Holzer
Program Manager
Federal Aviation Administration
Dakota Minnesota Airports District Office
2301 University Drive, Bldg 23B
Bismarck, ND 58504
701.323.7393

Change Order No. 7
Date December 9, 2019



Airport Name Bismarck Airport
Location Bismarck, ND
Contract Description Reconstruct Portion of Runway 13-31 (Phase 3), including Portions of Taxiway C1, Taxiway C2, Taxiway 8 and Runway 13 Blast Pad
Contract Date September 24, 2018

AIP Project # 3-38-0003-059-2018 and 3-38-0003-060-2018
KLJ Project # 1518700
Owner's Project # 600-620-603-6630-210 APG.AIP59.31CONST
 600-620-603-6630-210 APG.AIP60.31CONST
 600-620-603-6630-210 APG.AIP60.NQNAIPCONS SCH1, DIV 3, 5, 7

Owner	Contractor	Engineer
City of Bismarck	Northern Improvement Company	KLJ
PO Box 991	PO Box 1254	4585 Coleman Street
Bismarck, ND 58502-0991	Bismarck, ND 58502	Bismarck, ND 58503

General Reason for Change (quantify and explain details in sections 2 and 3)

Stockpile of CC-45 Cable Concrete Mat with Geotextile Fabric

	AIP Grant 059	AIP Grant 060	Non-AIP	Total
Total Contract Amount Prior to this Change Order	\$ 1,987,766.40	\$ 8,814,057.95	\$ 75,792.40	\$ 10,877,616.75
Change Resulting from this Change Order	-	(68,139.08)	-	(68,139.08)
Total Contract Amount After this Change Order	\$ 1,987,766.40	\$ 8,745,918.87	\$ 75,792.40	\$ 10,809,477.67

Calendar Days	
Start Up Stage completion date prior to this Change Order	May 8, 2019
Change resulting from this Change Order	0
Start Up Stage completion date from this Change Order	May 8, 2019
Steady Stage completion date prior to this Change Order	October 7, 2019
Change resulting from this Change Order	0
Steady Stage completion date from this Change Order	October 7, 2019
Final Stage completion date prior to this Change Order	October 19, 2019
Change resulting from this Change Order *	0
Final Stage completion date from this Change Order *	October 19, 2019
Prerequisites to Substantial Completion date prior to this Change Order	October 19, 2019
Change resulting from this Change Order *	0
Revised Prerequisites to Substantial Completion date from this Change Order *	October 19, 2019
Prerequisites to Final Acceptance completion date prior to this Change Order	August 1, 2020
Change resulting from this Change Order	0
Revised Prerequisites to Final Acceptance completion date from this Change Order	August 1, 2020

Change Order approved by:

 Date 2/7/2020

 Date 2-10-20

 Date

 KLJ

 Bruce Thompson
 Northern Improvement Company

 City of Bismarck

Summary of Changes

Airport Name Bismarck Airport
 Location Bismarck, ND
 AIP Project # 3-38-0003-059-2018 and 3-38-0003-060-2018
 Contractor Northern Improvement Company

Change Order No. 7
 Section 2

KLJ Project # 1518700
 Owner's Project # 600-620-603-6630-210

Item #	Spec #	Item	Quantities			Unit	Unit Price	Revised Cost	Changed Cost
			Planned	Revised	Change				
AIP Grant 060									
Schedule 1, Division 1 - Reconstruct Portion of Runway 13-31 and Runway 13 Blast Pad (24,194 S.Y. Paved, 24,194 S.Y. PCC) - General Construction - AIP									
1	P-152	Unclassified Excavation	217,251			C.Y.	4.20	\$	\$
2	Plan Notes	Water	2,889			M Gal.	27.80		
3	P-154	Subbase Course	9,657			C.Y.	48.30		
4	P-160	Recycled Asphalt Pavement for Subgrade Stabilization	7,049			C.Y.	13.70		
5	P-181	Soil Stabilization Material	21,066			S.Y.	2.30		
6	P-209	Crushed Aggregate Base Course	6,148			C.Y.	113.40		
7	P-230	Geotextile Fabric	25,866			S.Y.	1.60		
8	P-304	6-Inch Cement-Treated Base Course	20,540			S.Y.	22.90		
9	P-401	HMA Surface Course	11			Ton	119.20		
10	P-401	HMA Base Course	18			Ton	100.00		
11	P-412	Remove, Salvage & Process Asphalt Pavement for Subgrade Stabilization (Full Depth)	23,455			S.Y.	8.40		
12	P-412	Mill and Salvage Asphalt Pavement for Subgrade Stabilization (1-6 Inch Depth)	18			S.Y.	5.50		
13	P-412	Stockpile Salvaged Asphalt Pavement in the Permanent Stockpile Site (If Needed)	6,000			C.Y.	13.80		
14	Plan Notes	Remove and Dispose of Concrete Pavement	303			S.Y.	151.60		
15	P-501	12-Inch Portland Cement Concrete Pavement (Non-Reinforced Unless Shown)	4,444			S.Y.	91.00		
16	P-501	16-Inch Portland Cement Concrete Pavement (Non-Reinforced Unless Shown)	19,750			S.Y.	93.20		
17	P-603	Bituminous Tack Coat	8			Gal.	2.00		
18	P-605	Joint Sealing - PCC Pavement (New)	30,880			L.F.	2.00		
19	Plan Notes	Obliterate Pavement Markings	94,969			S.F.	0.70		
20	Plan Notes	Temporary Runway and Taxiway Markings	32,600			S.F.	0.90		
21	P-620	Runway and Taxiway Marking	66,591			S.F.	1.60		
22	P-621	Grooving	17,044			S.Y.	3.80		
23	F-162	10 Ft. Chain-Link Fence	1,946			L.F.	30.30		
24	F-162	8 Ft. Chain-Link Fence	30			L.F.	27.50		
25	F-162	30 Ft. x 8 Ft. Double Swing, Chain-Link Gate	1			Each	3,990.50		
26	F-162	32 Ft. x 8 Ft. Double Swing, Chain-Link Gate	1			Each	3,990.50		
27	F-162	32 Ft. x 10 Ft. Double Slide, Chain-Link Gate	1			Each	7,743.40		
28	Plan Notes	Remove and Salvage 8-Foot Chain-Link Fence	2,126			L.F.	5.70		
29	Plan Notes	Remove 30 Ft. x 8 Ft. Double Swing, Chain Link Gate	1			Each	721.50		
30	Plan Notes	Remove 32 Ft. x 8 Ft. Double Swing, Chain Link Gate	1			Each	721.50		
31	Plan Notes	Insulate Water Main	28			L.F.	108.80		
32	Plan Notes	Adjust Gate Valve	1			Each	798.20		
33	Plan Notes	Automated Sluice Gate	-			Each	15,066.00		
34	Plan Notes	Remove and Dispose of Existing Reinforced Concrete Pipe (All Sizes)	1,224			L.F.	13.90		
35	Plan Notes	Remove and Dispose of Existing PVC Pipe (All Sizes)	46			L.F.	16.70		
36	Plan Notes	Abandon Existing Pipe (All Types and Sizes)	604			L.F.	7.20		
37	D-701	18-Inch Reinforced Concrete Pipe, Cl. V	1,455			L.F.	78.80		
38	D-701	24-Inch Reinforced Concrete Pipe, Cl. V	1,732			L.F.	108.80		
39	D-701	30-Inch Reinforced Concrete Pipe, Cl. V	475			L.F.	153.20		
40	D-701	18-Inch Corrugated Steel Pipe (0.064")	50			L.F.	55.50		
41	D-701	18-Inch Corrugated Steel End Section (0.064")	2			Each	849.20		
42	D-701	12-Inch PVC Storm Sewer Pipe (SDR 26 Sewer Pipe)	1,830			L.F.	48.80		
43	D-701	18-Inch RC End Section with Trash Guard	6			Each	1,443.00		
44	D-701	30-Inch RC End Section with Trash Guard	1			Each	2,886.00		
45	D-701	30-Inch RC End Section (If Needed)	-			Each	1,731.60		
46	Plan Notes	18-Inch Jacked and Bored Steel Pipe	-			L.F.	546.10		
47	Plan Notes	30-Inch Jacked and Bored Steel Pipe (If Needed)	157			L.F.	600.50		
48	D-705	6-Inch Perforated PVC Edgedrain Pipe with Filter Sock	2,317			L.F.	12.80		
49	D-705	6-Inch PVC Outlet Line	1,506			L.F.	16.90		
50	Plan Notes	Edgedrain Cleanout	6			Each	1,814.90		
51	D-751	30-Inch Manhole	4			Each	3,346.70		
52	D-751	48-Inch Manhole	7			Each	5,522.30		
53	D-751	60-Inch Manhole	2			Each	7,903.20		
54	D-751	72-Inch Manhole	1			Each	8,713.50		
55	D-751	84-Inch Manhole	1			Each	13,347.80		
56	Plan Notes	Remove and Dispose of Existing Manhole (All Sizes)	6			Each	466.20		
57	Plan Notes	Abandon Existing Manhole (All Sizes)	3			Each	921.30		
58	Plan Notes	Adjust Existing Manhole (All Sizes)	6			Each	3,024.80		
59	T-901	Seeding	72			Acre	688.20		

Airport Name Bismarck Airport
 Location Bismarck, ND
 AIP Project # 3-38-0003-059-2018 and 3-38-0003-060-2018
 Contractor Northern Improvement Company

Change Order No. 7
 Section 2

KLJ Project # 1518700
 Owner's Project # 600-620-603-6630-210

Item #	Spec #	Item	Quantities			Unit	Unit Price	Revised Cost	Changed Cost	
			Planned	Revised	Change					
60	Plan Notes	Seeding (Waste Excavation Area, If Needed)	13			Acre	688.20	-	-	
61	T-905	Topsolling	37,749			C.Y.	3.90	-	-	
62	Plan Notes	Topsolling (Waste Excavation Area, If Needed)	5,968			C.Y.	4.40	-	-	
63	T-908	Mulching	72			Acre	1,576.20	-	-	
64	Plan Notes	Mulching (Waste Excavation Area)	13			Acre	1,576.20	-	-	
65	Plan Notes	Biorolls	2,761			L.F.	2.40	-	-	
66	Plan Notes	Sediment Control Fence (If Needed)	200			L.F.	2.90	-	-	
67	Plan Notes	Inlet Protection	9			Each	161.00	-	-	
68	Plan Notes	CC-45 Cable Concrete Mat with Geotextile Fabric	17,487	512	(16,975)	S.F.	16.10	8,243.20	(273,297.50)	
69	Plan Notes	Stockpile Grading	1			L.S.	12,790.00	-	-	
70	Local	Field Office / Laboratory	1			L.S.	25,360.00	-	-	
71	Local	Airside Traffic Control	1			L.S.	104,420.00	-	-	
72	Local	Install Construction Safety Fence	4,825			L.F.	1.70	-	-	
73	Local	Remove Construction Safety Fence	4,825			L.F.	0.60	-	-	
74	Local	Mobilization	1			L.S.	960,780.00	-	-	
TOTAL SCHEDULE 1, DIVISION 1 - AIP 060							\$	8,243.20	\$	(273,297.50)

AIP Grant 059

Schedule 1, Division 2 - Reconstruct Portion of Taxiway C1, (3,806 S.Y. Paved, 2,435 S.Y. PCC, 1,971 S.Y. HMA) - General Construction - AIP

1	P-152	Unclassified Excavation	3,688			C.Y.	\$ 4.20	\$ -	\$ -	
2	Plan Notes	Water	111			M Gal.	27.80	-	-	
3	P-154	Subbase Course	1,219			C.Y.	48.30	-	-	
4	P-160	Recycled Asphalt Pavement for Subgrade Stabilization	1,094			C.Y.	13.70	-	-	
5	P-181	Soil Stabilization Material	3,342			S.Y.	2.30	-	-	
6	P-209	Crushed Aggregate Base Course	1,392			C.Y.	113.40	-	-	
7	P-230	Geotextile Fabric	3,772			S.Y.	1.60	-	-	
8	P-304	6-Inch Cement-Treated Base Course	2,560			S.Y.	22.90	-	-	
9	P-401	HMA Surface Course	321			Ton	119.20	-	-	
10	P-401	HMA Base Course	395			Ton	100.00	-	-	
11	P-412	Remove, Salvage & Process Asphalt Pavement for Subgrade Stabilization (Full Depth)	3,808			S.Y.	8.40	-	-	
12	P-412	Mill and Salvage Asphalt Pavement for Subgrade Stabilization (1-6 Inch Depth)	342			S.Y.	5.50	-	-	
13	P-501	16-Inch Portland Cement Concrete Pavement (Non-Reinforced Unless Shown)	2,435			S.Y.	93.20	-	-	
14	P-603	Bituminous Tack Coat	240			Gal.	2.00	-	-	
15	P-605	Joint Sealing - PCC Pavement (New)	3,393			L.F.	2.00	-	-	
16	Plan Notes	Joint Sealing - Asphalt Pavement (Route & Seal)	82			L.F.	6.10	-	-	
17	D-705	6-Inch Perforated PVC Edgedrain Pipe with Filter Sock	511			L.F.	12.80	-	-	
18	Plan Notes	Edgedrain Cleanout	2			Each	1,814.90	-	-	
TOTAL SCHEDULE 1, DIVISION 2 - AIP 059							\$	-	\$	-

Non-AIP

Schedule 1, Division 3 - Reconstruct Portion of Taxiway C1 - (114 S.Y. PCC) - General Construction - NON-AIP

1	P-152	Unclassified Excavation	198			C.Y.	\$ 4.20	\$ -	\$ -	
2	Plan Notes	Water	5			M Gal.	27.80	-	-	
3	P-154	Subbase Course	66			C.Y.	48.30	-	-	
4	P-160	Recycled Asphalt Pavement for Subgrade Stabilization	47			C.Y.	13.70	-	-	
5	P-181	Soil Stabilization Material	140			S.Y.	2.30	-	-	
6	P-209	Crushed Aggregate Base Course	31			C.Y.	113.40	-	-	
7	P-230	Geotextile Fabric	140			S.Y.	1.60	-	-	
8	P-304	6-Inch Cement-Treated Base Course	140			S.Y.	22.90	-	-	
9	P-501	16-Inch Portland Cement Concrete Pavement (Non-Reinforced Unless Shown)	114			S.Y.	93.20	-	-	
10	P-605	Joint Sealing - PCC Pavement (New)	113			L.F.	2.00	-	-	
TOTAL SCHEDULE 1, DIVISION 3 - NON-AIP							\$	-	\$	-

AIP Grant 059

Schedule 1, Division 4 - Reconstruct Portion of Taxiway C2, (9,749 S.Y. Paved, 2,272 S.Y. PCC, 1,477 S.Y. HMA) - General Construction - AIP

1	P-152	Unclassified Excavation	3,985			C.Y.	\$ 4.20	\$ -	\$ -
2	Plan Notes	Water	109			M Gal.	27.80	-	-
3	P-154	Subbase Course	1,114			C.Y.	48.30	-	-
4	P-160	Recycled Asphalt Pavement for Subgrade Stabilization	1,021			C.Y.	13.70	-	-
5	P-181	Soil Stabilization Material	3,126			S.Y.	2.30	-	-
6	P-209	Crushed Aggregate Base Course	1,326			C.Y.	113.40	-	-
7	P-230	Geotextile Fabric	3,629			S.Y.	1.60	-	-
8	P-304	6-Inch Cement-Treated Base Course	2,362			S.Y.	22.90	-	-
9	P-401	HMA Surface Course	342			Ton	119.20	-	-
10	P-401	HMA Base Course	400			Ton	100.00	-	-

Airport Name Bismarck Airport
 Location Bismarck, ND
 AIP Project # 3-38-0003-059-2018 and 3-38-0003-060-2018
 Contractor Northern Improvement Company

Change Order No. 7
 Section 2

KLI Project # 1518700
 Owner's Project # 600-620-603-6630-210

Item #	Spec #	Item	Quantities		Change	Unit	Unit Price	Revised Cost	Changed Cost		
			Planned	Revised							
11	P-412	Remove, Salvage & Process Asphalt Pavement for Subgrade Stabilization (Full Depth)	4,933			S.Y.	8.40	-	-		
12	P-412	Mill and Salvage Asphalt Pavement for Subgrade Stabilization (1-6 Inch Depth)	434			S.Y.	5.50	-	-		
13	P-501	16-Inch Portland Cement Concrete Pavement (Non-Reinforced Unless Shown)	2,272			S.Y.	93.20	-	-		
14	P-603	Bituminous Tack Coat	252			Gal.	2.00	-	-		
15	P-605	Joint Sealing - PCC Pavement (New)	3,570			L.F.	2.00	-	-		
16	Plan Notes	Joint Sealing - Asphalt Pavement (Route & Seal)	58			L.F.	6.10	-	-		
17	D-705	6-Inch Perforated PVC Edgedrain Pipe with Filter Sock	575			L.F.	12.80	-	-		
18	Plan Notes	Edgedrain Cleanout	2			Each	1,814.90	-	-		
TOTAL SCHEDULE 1, DIVISION 4 - AIP 059								\$	-	\$	-
Non-AIP											
Schedule 1, Division 5 - Reconstruct Portion of Taxiway C2 - (235 S.Y. PCC) - General Construction - NON-AIP											
1	P-152	Unclassified Excavation	382			C.Y.	\$ 4.20	\$	-		
2	Plan Notes	Water	9			M Gal.	27.80	-	-		
3	P-154	Subbase Course	128			C.Y.	48.30	-	-		
4	P-160	Recycled Asphalt Pavement for Subgrade Stabilization	90			C.Y.	13.70	-	-		
5	P-181	Soil Stabilization Material	270			S.Y.	2.30	-	-		
6	P-209	Crushed Aggregate Base Course	60			C.Y.	113.40	-	-		
7	P-230	Geotextile Fabric	270			S.Y.	1.60	-	-		
8	P-304	6-Inch Cement-Treated Base Course	270			S.Y.	22.90	-	-		
9	P-501	16-Inch Portland Cement Concrete Pavement (Non-Reinforced Unless Shown)	235			S.Y.	93.20	-	-		
10	P-605	Joint Sealing - PCC Pavement (New)	214			L.F.	2.00	-	-		
TOTAL SCHEDULE 1, DIVISION 5 - NON-AIP								\$	-	\$	-
AIP Grant 059											
Schedule 1, Division 6 - Reconstruct Portion of Taxiway B, (5,612 S.Y. Paved, 1,052 S.Y. PCC, 4,560 S.Y. HMA) - General Construction - AIP											
1	P-152	Unclassified Excavation	22,044			C.Y.	\$ 4.20	\$	-		
2	Plan Notes	Water	278			M Gal.	27.80	-	-		
3	P-160	Recycled Asphalt Pavement for Subgrade Stabilization	394			C.Y.	13.70	-	-		
4	P-181	Soil Stabilization Material	6,040			S.Y.	2.30	-	-		
5	P-209	Crushed Aggregate Base Course	2,453			C.Y.	113.40	-	-		
6	P-230	Geotextile Fabric	1,266			S.Y.	1.60	-	-		
7	P-401	HMA Surface Course	555			Ton	119.20	-	-		
8	P-401	HMA Base Course	551			Ton	100.00	-	-		
9	P-412	Remove, Salvage & Process Asphalt Pavement for Subgrade Stabilization (Full Depth)	4,978			S.Y.	8.40	-	-		
10	P-412	Mill and Salvage Asphalt Pavement for Subgrade Stabilization (1-6 Inch Depth)	39			S.Y.	5.50	-	-		
11	P-501	7-Inch Portland Cement Concrete Pavement (Non-Reinforced Unless Shown)	1,052			S.Y.	67.30	-	-		
12	P-603	Bituminous Tack Coat	226			Gal.	2.00	-	-		
13	P-605	Joint Sealing - PCC Pavement (New)	2,013			L.F.	2.00	-	-		
14	Plan Notes	Joint Sealing - Asphalt Pavement (Route & Seal)	35			L.F.	6.10	-	-		
15	D-705	6-Inch Perforated PVC Edgedrain Pipe with Filter Sock	474			L.F.	12.80	-	-		
16	Plan Notes	Edgedrain Cleanout	2			Each	1,814.90	-	-		
TOTAL SCHEDULE 1, DIVISION 6 - AIP 059								\$	-	\$	-
Non-AIP											
Schedule 1, Division 7 - Reconstruct Portion of Taxiway B - (28 S.Y. PCC) - General Construction - NON-AIP											
1	P-152	Unclassified Excavation	38			C.Y.	\$ 4.20	\$	-		
2	Plan Notes	Water	1			M Gal.	27.80	-	-		
3	P-160	Recycled Asphalt Pavement for Subgrade Stabilization	12			C.Y.	13.70	-	-		
4	P-181	Soil Stabilization Material	55			S.Y.	2.30	-	-		
5	P-209	Crushed Aggregate Base Course	38			C.Y.	113.40	-	-		
6	P-230	Geotextile Fabric	36			S.Y.	1.60	-	-		
7	P-401	HMA Surface Course	2			Ton	119.20	-	-		
8	P-401	HMA Base Course	2			Ton	100.00	-	-		
9	P-501	7-Inch Portland Cement Concrete Pavement (Non-Reinforced Unless Shown)	28			S.Y.	67.30	-	-		
10	P-603	Bituminous Tack Coat	2			Gal.	2.00	-	-		
11	P-605	Joint Sealing - PCC Pavement (New)	30			L.F.	2.00	-	-		
TOTAL SCHEDULE 1, DIVISION 7 - NON-AIP								\$	-	\$	-

Airport Name Bismarck Airport
 Location Bismarck, ND
 AIP Project # 3-38-0003-059-2018 and 3-38-0003-060-2018
 Contractor Northern Improvement Company

Change Order No. 7
 Section 2

KLI Project # 1518700
 Owner's Project # 600-620-603-6630-210

Item #	Spec #	Item	Quantities			Unit	Unit Price	Revised Cost	Changed Cost
			Planned	Revised	Change				
AIP Grant 060									
Change Order 1									
Schedule 1, Division 1 - Reconstruct Portion of Runway 13-31 and Runway 13 Blast Pad (24,194 S.Y. Paved, 24,194 S.Y. PCC) - General Construction - AIP									
CO 1-1	D-701 / CO1	Trash Guard for Existing 48-Inch RC End Section	1			Each	\$ 2,615.80	\$ -	\$ -
CO 1-2	D-751 / CO1	12-Foot x 4-Foot Manhole Structure	1			Each	38,931.20	-	-
CO 1-3	CO1	Landside Traffic Control (University Drive)	1			L.S.	1,886.50	-	-
CO 1-4	P-152	Unclassified Excavation (Truck Haul from West Detention Area)	19,270			C.Y.	18.83	-	-
CO 1-5	CO1	Mobilization for Jack and Bore Pipe	1			L.S.	11,805.00	-	-
CO 1-6	CO1	Landside Traffic Control (Recreational Trail west of Univ. Drive)	1			L.S.	538.45	-	-
CO 1-7	CO1	Change Barricade Spacing from 5 Feet to 4 Feet	1			L.S.	4,023.25	-	-
CO 1-8	CO1	Additional Barricades across Runway 13-31 South of Taxiway D	1			L.S.	2,994.75	-	-
							TOTAL CHANGE ORDER 1	\$ -	\$ -
AIP Grant 060									
Change Order 2									
Schedule 1, Division 1 - Reconstruct Portion of Runway 13-31 and Runway 13 Blast Pad (24,194 S.Y. Paved, 24,194 S.Y. PCC) - General Construction - AIP									
CO 2-1	CO2	Disposal of Debris	500			Ton	\$ 34.10	\$ -	\$ -
CO 2-2	CO2	Bismarck Landfill Tipping Fees		\$ 7,000.00		Actual Cost		\$ -	\$ -
							TOTAL CHANGE ORDER 2	\$ -	\$ -
AIP Grant 060									
Change Order 3									
Schedule 1, Division 1 - Reconstruct Portion of Runway 13-31 and Runway 13 Blast Pad (24,194 S.Y. Paved, 24,194 S.Y. PCC) - General Construction - AIP									
CO 3-1	CO3	Disposal of Large Debris	100			Ton	\$ 64.35	\$ -	\$ -
							TOTAL CHANGE ORDER 3	\$ -	\$ -
AIP Grant 060									
Change Order 5									
Schedule 1, Division 1 - Reconstruct Portion of Runway 13-31 and Runway 13 Blast Pad (24,194 S.Y. Paved, 24,194 S.Y. PCC) - General Construction - AIP									
CO 5-1	CO5	Gate 147 Sign and Delineators	1			L.S.	\$ 1,094.50	\$ -	\$ -
							TOTAL CHANGE ORDER 5	\$ -	\$ -
AIP Grant 060									
Change Order 7									
Schedule 1, Division 1 - Reconstruct Portion of Runway 13-31 and Runway 13 Blast Pad (24,194 S.Y. Paved, 24,194 S.Y. PCC) - General Construction - AIP									
CO 7-1	CO7	Stockpile of CC-45 Cable Concrete Mat with Geotextile Fabric	-	1	1	L.S.	\$ 205,158.42	\$ 205,158.42	\$ 205,158.42
							TOTAL CHANGE ORDER 7	\$ 205,158.42	\$ 205,158.42
							TOTAL AIP 059 CHANGE	\$ -	\$ -
							TOTAL AIP 060 CHANGE	\$ 213,401.62	\$ (68,139.08)
							TOTAL NON-AIP	\$ -	\$ -
							TOTAL CHANGE	\$ 213,401.62	\$ (68,139.08)

NOTE: The items highlighted above in orange are items that are funded 90 percent under AIP Grant 059

NOTE: The items highlighted above in blue are items that are funded 90 percent under AIP Grant 060

NOTE: The items highlighted above in yellow are items that are funded 100 percent non-AIP and 0 percent AIP.

Explanation of Changes

Airport Name	Bismarck Airport	Change Order No.	7
Location	Bismarck, ND	Section	3
AIP Project #	3-38-0003-059-2018 and 3-38-0003-060-2018	KLI Project #	1518700
Contractor	Northern Improvement Company	Owner's Project #	600-620-603-6630-210

Item No. C07-1

Description

Stockpile of CC-45 Cable Concrete Mat with Geotextile Fabric

Reason for Change

In the west detention area, the Owner has elected to perform additional work on a future project. As a result, the Contractor will not be required to install the cable concrete mat with geotextile fabric (and associated items) in this area. The cable concrete mats have been manufactured and are being stored in Forterra's (supplier) Menoken plant yard.

This change order removes the cable concrete mats as installed from the project and compensates the Contractor for stockpiling the CC-45 cable concrete with geotextile fabric, cable concrete stainless steel clamps, cable concrete duckbill anchors, and all items necessary to install the cable concrete on a future project. Prior to payment for the stockpiled materials, the Contractor will be required to provide documentation of the conditions for payment as outlined in General Provision Section 90-07, Payment for Materials on Hand. The cable concrete shall be stockpiled in Forterra's Menoken yard until such time as the material is utilized on the future west detention area project by the Owner and shall be shielded from any deterioration per the manufacturer's recommendation. The Contractor shall stockpile the cable concrete stainless steel clamps and duckbill anchors in a location on the Airport that is acceptable to the Owner.

Regarding the west detention area, the Contractor will be required to complete the grading as originally planned. In the area where the cable concrete with geotextile fabric was to be placed, the Contractor shall place topsoil in place of the cable concrete to provide positive drainage in this area.

The proposed cost appears to be allowable, allocable and reasonable.



Home Office
 Fargo, North Dakota
 4000-12th Avenue North
 58102-2910
 PO Box 2846
 58108-2846
 Phone 701-277-1225
 Fax 701-277-1516

Office
 Bismarck, North Dakota
 PO Box 1254
 58602-1254
 Phone 701-223-6695
 Fax 701-224-0937

Office
 Dickinson, North Dakota
 PO Box 1035
 58602-1035
 Phone 701-225-5197
 Fax 701-225-0207

IMPROVEMENT COMPANY

Thomas M^CCormick, President/CEO
 Steve M^CCormick, Executive Vice-President

December 2, 2019

Mr. Tom Neigum
 Kadrmas, Lee & Jackson
 Box 1157
 Bismarck, ND 58502-1157

RE: Bismarck Airport Reconstruction Phase 3 - CC-45 Concrete Mats - Revised
 AIP 3-38-0003-59-2018
 KLJ 158700 / NIC 18255

Dear Mr. Neigum:

Northern Improvement Company submits the following options for the CC-45 concrete mats west of University Drive for the above referenced project.

<u>Item #</u>	<u>Description</u>	<u>Unit</u>	<u>Qty</u>	<u>Unit \$</u>	<u>Total</u>
<u>Option #1 - Stockpiled at Forterra</u>					
1 Plan Note	CC-45 Cable Concrete Mats	Lsum	1	\$ 220,834.90	\$220,834.90
	<ul style="list-style-type: none"> ➤ All items are tied. ➤ Above price includes mats, clamps and duckbill anchors. ➤ Mats, clamps and duckbill anchors will be stockpiled at Forterra's Menoken plant. ➤ Forterra requests payment on this invoice as soon as possible. ➤ Mats will be held for the airport drain tile project at Forterra's plant in Menoken. ➤ After 12 month process a discussion would need to be had as to how much longer the time frame would be or the options at that point. ➤ Airport assumes responsibility for the mats, clamps and duckbill anchors. 				
<u>Option #2 - Stockpiled West Detention Pond</u>					
Plan Note	CC-45 Cable Concrete Mats	Lsum	1	\$ 270,197.40	\$270,197.40
	<ul style="list-style-type: none"> ➤ All items are tied. ➤ Above prices include one mobilization. ➤ Mats will be stockpiled on the west side of University Drive near the east-west trail on the southside of the detention pond. ➤ All clamps and duckbill anchors will be supplied to the Airport at the time of stockpiling. ➤ Airport assumes responsibility for the mats, clamps and duckbill anchors once they are unloaded and stockpiled. ➤ We exclude repair to the east-west trail running west off University Drive. 				



Option #3 - NIC Purchase and Stockpiled at Forterra

Plan Note	CC-45 Cable Concrete Mats	Lsum	1	\$ 205,158.42	\$205,158.42
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- All items are tied.
- Above price includes mats, clamps and duckbill anchors.
- Mats, clamps and duckbill anchors will be stockpiled at Forterra's Menoken plant.
- Forterra requests payment on this invoice as soon as possible.
- Mats will be held for the airport drain tile project at Forterra's plant in Menoken.
- After 12 month process a discussion would need to be had as to how much longer the time frame would be or the options at that point.
- Airport assumes responsibility for the mats, clamps and duckbill anchors.

The above prices include prime contractor markup. Let us know how you would like to proceed. If you have any questions please give me a call, Thank You.

Sincerely,



Bruce Thompson, VP/Estimator
Northern Improvement Company



PREBILL INVOICE
Materials on Hand

INVOICE NO.	DATE
112620192	11/26/2019

SOLD **Welsz & Sons Inc**
TO: PO Box 1756
Bismarck ND 58502-1756

CUSTOMER NUMBER	ORDER NO.
183600	5618168PM1

PROJECT: Bismarck Airport Improvements Phase 3
PO#:

		DESCRIPTION	AMOUNT	
<u>Qty</u>	<u>Structure</u>	<u>Item Description</u>	<u>Unit Price</u>	<u>Extended Price</u>
135		Mats Less freight for mats	\$1,203.14	\$162,423.90 (\$5,680.00)
1080		CC Stainless Steel Clamps	\$4.40	\$4,752.00
540		CC Duckbill Anchors	\$16.80	\$9,072.00

	SUBTOTAL	\$170,567.90
Bismarck City and Burleigh county	County Tax 2.00%	\$3,411.38
ND	State Sales Tax 5.000%	\$8,528.40
	TOTAL AMT DUE	\$182,507.65

REMIT TO:

Forterra Pipe & Precast
P.O. Box 74008199
Chicago, IL 60674-8199

TELEPHONE: 763/694-3252

Bruce Thompson

From: Matt Olson <matt@weiszandsons.net>
Sent: Tuesday, November 26, 2019 4:37 PM
To: Bruce Thompson
Cc: Ryan Holen
Subject: RE: BIS Runway 13-31 Reconstruction Ph 3 (KJ 1518700) (NIC 18255) - West Detention Area Cable Concrete

Importance: High

Bruce,

Option 1 – Material invoiced and stockpiled onsite: **\$245,634.00**
Option 2 – Material invoiced only: **\$200,759.00**

If you need anything else please advise, thanks.

WEISZ
& SONS INC
CONTRACTORS

Matt Olson
Project Manager/Estimator
Phone – 701-258-9770
Cell – 701-319-0253
Fax – 701-258-2194
www.weiszandsons.net

Bruce Thompson

From: Matt Olson <matt@weiszandsons.net>
Sent: Wednesday, November 27, 2019 4:58 PM
To: Bruce Thompson; Ryan Holen
Subject: BIS Runway 13-31 Reconstruction Ph 3 (KLJ 1518700) (NIC 18255) - West Detention Area Cable Concrete - 11-27-19

Importance: High

Bruce,

Attached is the cost breakdown for the invoiced material & stockpile option:

	<u>Description</u>	<u>Hours</u>	<u>Rate</u>	<u>Sub-Total</u>
•	Labor:			
○	Foreman (1)	36	\$150.28	\$5,410.08
○	Operator (1)	36	\$145.32	\$5,231.52
○	Laborers (2)	72	\$96.78	\$6,968.16
○	Truck Drivers	68	\$140.36	\$9,544.48
	TOTAL:			\$27,154.24
•	Equipment:			
○	Excavator	36	\$161.20	\$5,803.20
○	Pickup	36	\$32.24	\$1,160.64
○	Semi-Trucks	68	\$158.19	\$10,756.92
	TOTAL:			\$17,720.76
•	Material:			\$200,759.00
	TOTAL:			\$245,634.00

Justifications for the stockpiling pricing:

1. It will take the same duration of labor that was bid originally in July, 2018 to stockpile the mats as opposed to installing them because of the time waiting on trucks to make rounds back from the plant to the site. It will also require roughly the same amount of laborers to help hook the mats up to the excavator and unhook them on the ground. Our original bid assumed that during the time the rest of the mats were being hauled from the plant our laborers would be clamping and anchoring the mats.
2. As with the labor, it will take the same amount of equipment time and equipment to offload the mats vs. to install them – with the same explanation as above.
3. We assumed for Weisz & Sons Inc. to haul the mats vs. the original bid price to have Forterra transport them. During this time of the year Forterra shuts their plant down and we wanted to ensure we could deliver as many to the jobsite as possible with our trucks and control the time in between rounds.

Notes pertaining to the original contract work:

4. The total contractual amount of mats to be installed as of the latest change order revision was 17,840 SF. The total amount would be: 17,840 SF x \$14.50/SF = \$258,680.00, with a difference of \$13,046.00 between contract and stockpiling.
5. ***In regards to the difference between stockpiling and install prices, we assumed back in July, 2018 that we would be able to drive out onto a relatively dry piece of ground and offload these mats relatively close to the work area. As it turns out with the historical amount of rain we had this year and the efforts completed by Foothills Contracting, we wouldn't have been able to even deliver them anywhere near close to the install locations and our contractual price of \$14.50 would have been greatly underbid.***

If Northern Improvement would choose to purchase the mats themselves rather than have Weisz do this, we would be acceptable of that, but we would request \$4,000.00 for overhead and administrative time through this process.

Finally, I discussed with Forterra the questions regarding the fabric. As was shown in the shop drawings, the fabric is already attached to the underside of the mats. There will not be any issue of material deteriorating or becoming subject to the elements. They are stored outside at Forterra's yard in Menoken for every project they supply for and have had no issues with this.

If you require anything else, please advise.

Thanks,



Matt Olson

Project Manager/Estimator

Phone – 701-258-9770

Cell – 701-319-0253

Fax – 701-258-2194

www.weiszandsons.net