Rock Chalk Park - Infrastructure Report

November 2013

The following report is the fifth monthly report for the construction of infrastructure at Rock Chalk Park. The format follows the sections outlined in the development agreement with status updates and notable items complete. Attached is a copy of the spreadsheet city staff is using to track monthly quantities and totals which can be compared to the amounts approved in the development agreement. Highlighted items on the spreadsheet are estimated quantities complete for lump sum and grading items that will not be measurable until the project is complete; the estimate is from visual inspection.

The majority of work completed has been inspected and installed to City specifications. Quantities of work completed have been measured by the City and provided to Bliss Sports. There have been no major changes to the design, scope, functionality or amenities of the infrastructure plans. There have been some minor changes to work items and they are outlined in the change order section. Infrastructure improvements appear to be on or ahead of schedule.

Saturday November 30th there was no available city inspection staff to work and the city hired BG Consultants to perform inspection services. Work included the radius tie-in from the north end of George Williams Way to Rock Chalk Parkway and an access drive tie-in from Rock Chalk Parkway to the parking lot. Dowel bars at the tie-in contraction joint were bent down into the dirt, backed over by the concrete truck. Longitudinal tie-bars were used instead of dowel bars for half the width of the street. Tie-bars for the curb were not centered on the longitudinal joint; they were drilled 5" to 7" instead of 12". Curb joints do not match pavement joints and may cause additional cracking in future. BG inspection staff notified Bliss Sports of the issues before the concrete pour and Bliss Sports chose to proceed without correcting. This work did not meet City standards or specifications and a resolution will need to be agreed upon in the future. The inspection report is attached at the end of this month's infrastructure report.

General

- No additional staking costs have been submitted by Bliss Sports.

Site Grading

- No additional grading work in November
- 100% of site strip, site excavation, compaction and rock excavation work is complete; all quantities are assumed to be plan quantity
- Topsoil replacement/fine grade work will be done at end of project

Retention Ponds

- Work to complete the detention ponds is 100% complete as of July 2013.
- Summary of Costs:
  - Cost per development agreement: $156,250
  - Final construction cost: $156,250

Natural Trails and Eight Lighted Tennis Courts

- No work has begun

Waterline

- Installed 764 feet of 12 inch water line
- Installed 5 -12 inch MJ gate valves
- Installed 2 Fire hydrants for a total of 18. One more fire hydrant was installed then was on the agreement (17).
- Installed 8 CY of flowable fill; 247 CY total flowable fill was used for Waterline work.
- Work to complete Waterline is 100% complete as of November 2013
- Summary of Costs:
  - Cost per development agreement: $468,061.65
  - Final construction cost: $462,522.49
- Two overruns on quantities:
  - 12" C900 DR14 Waterline: 12 extra feet, cost = $442.44
  - 8" PVC C900 DR14 Waterline: 14 extra feet, cost = $406
  - Fire Hydrant Assembly: 1 extra, cost = $3300
- One underrun on quantities:
  - Flowable fill - an estimated 384.5 CY was assumed based on the unit price provided for the Sanitary Sewer flowable fill ($70/CY). The 247 CY of flowable fill used for waterline the total cost would be $17,290; an underrun cost of $9620
- All other items were installed at 100% of plan quantities

Sanitary Sewer

- Work to complete Sanitary Sewer is 100% complete as of October 2013
- Summary of Costs:
  - Cost per development agreement: $162,842.50
  - Final construction cost: $174,312.50
- Two overruns on quantities:
  - Extra Depth manhole: 6.2 extra feet, cost = $620
  - Flowable Fill - 155 CY extra, cost = $10,850
- All other items were installed at 100% of plan quantities

Storm Sewer

- Installed 79' of 15" Reinforced Concrete Pipe
- Installed one 15" RCP end section
- Sizes, materials and quantities have matched plans and specifications for storm sewer work
- One additional 12" pipe and end section was installed to alleviate a drainage concern along Rock Chalk Drive; because there are no 12" pipe quantities in the plans, the item has been added to the Change Order section at the end.
- Work to complete Storm Sewer is 100% complete as of November 2013
- Summary of Costs:
    - Cost per development agreement: $82,688.75
    - Final construction cost: $82,688.75

Parking Lot Lights

- No additional work on parking lot lights in November
- 80% of the Conduit for lights and 50% of the Conduit for Westar has been installed

Landscaping

- No additional work on landscaping in November
- Approximately 50% of the irrigation pipe has been installed for the parking lot islands

Rock Chalk Drive & George Williams

- Unclassified excavation was 100% complete for this section in October and the full quantity 15,934 CY is assumed to be correct.
- Compacted fill was 100% complete for this section in November and the full quantity 1790 CY is assumed to be correct.
- 9249 SY of 10" concrete pavement was installed; 95% complete. There are several cracked panels in Rock Chalk Drive. Repairs will need to be made before the work is accepted.
- 6096 LF of concrete curb and gutter was installed; 97% complete.
- Treatment of subgrade is measured to be 95% complete. The development agreement had 12" fly ash & 4" AB3 for this work item. A change was made to 9" fly ash as recommended by the city - already on the approved public improvement plans. No unit cost has been provided by Bliss for this work, the quantity has been added to the Change Order section.


Rock Chalk Drive


George Williams Way

Overflow Parking Lot

- No work has begun

Parking Lot / Access Drives

- Concrete paving in parking lot began in September. 1082 CY of concrete paving was complete in November. City staff has seen a few areas that will need to be removed and replaced due to edge chipping and spalling.
- Curb and gutter work in the parking lot began in November and 7314 LF was installed.
- Due to cold weather the parking lot north of the KU track facility was not treated with fly ash before paving. The City and Bliss Sports agreed to use 12" crushed concrete thickness instead of fly ash. This quantity will be split out and listed as Change Order 6.

Parking lot

Rock Chalk Lane and Rock Chalk Parkway

- 1728 SY of 8" NRDJ Pavement was constructed in November.
- 405 LF of CG-1 curb and gutter was installed.
- 1075 SY of Subgrade Treatment - 12" Flyash and 4" AB-3 was constructed.

Chip and Seal County Road

- No work has begun

Rec Center Pad

- Work to complete the rec center pad is 100% complete as of July 2013.
- Summary of Costs:
  - Cost per development agreement: $432,500
  - Final construction cost: $432,500

Change Orders

- Change Order 1: Installed additional 1352 LF of 4" conduit for fiber
- Change Order 2: 600 LF of 3" conduit for security cameras (complete in August)
- Change Order 3: Treatment of subgrade 9" flyash on Rock Chalk Drive and George Williams Way
- Change Order 4: 12" HDPE storm sewer pipe
- Change Order 5: 12" CMP End Section.
- Change Order 6: 5998 SY 12" Subgrade Crushed Concrete in Parking Lot

- Unit costs for change orders 1 through 6 have not yet been provided by Bliss Sports.

ESTIMATE OF WORK COMPLETE

DATE: November 30, 2013 **FOR PERIOD: November 2013**

ESTIMATE No.: 5

PROJECT LOCATION: Rock Chalk Site Work ESTIMATE ON LUMP SUM & GRADING ITEMS

				CONTRACTED		COMPLETED TO DATE		Percent Complete	COMPLETED THIS PAY PERIOD	
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT	UNIT	AMOUNT		UNIT	AMOUNT
	General	Unit	Quantity	Unit cost	Total					
1	Mobilization	LS	1	$ 400,000.00	$ 400,000.00	0.75	$ 300,000.00	75%		$ -
2	Construction Staking	LS	1	$ 225,000.00	$ 225,000.00	0.25	$ 58,200.00	25%		$ -
3	Seeding, Mulching & Fertilizing	AC	20	$ 1,500.00	$ 30,000.00	13.34	$ 20,010.00	67%		$ -
4	Utilities Connection fees and expenses	LS	1	$ 55,000.00	$ 55,000.00		$ -	0%		$ -
5	Traffic Control	LS	1	$ 5,000.00	$ 5,000.00		$ -	0%		$ -
6	Erosion & Sediment Control	LS	1	$ 40,000.00	$ 40,000.00	1.00	$ 40,000.00	100%		$ -
7	Legal Fees per Development Agreement	LS	1	$ 167,836.00	$ 167,836.00		$ -	0%		$ -
8	Loan origination fees for project financing	LS	1	$ 150,000.00	$ 150,000.00		$ -	0%		$ -
9	Loan interest for project financing	LS	1	$ 309,515.00	$ 309,515.00		$ -	0%		$ -
10	Construction Management fee 2.5% on $11.5M	LS	1	$ 287,500.00	$ 287,500.00		$ -	0%		$ -
11	Professional Fees	LS	1	$ 525,000.00	$ 525,000.00		$ -	0%		$ -
	General Sub Total				**$ 2,194,851.00**		$ 418,210.00	19%		$ -
	Site Grading	Unit	Quantity	Unit cost	Total					
12	Site strip	CY	32,000	$ 2.25	$ 72,000.00	32,000.00	$ 72,000.00	100%		$ -
13	Site Excavation	CY	180,000	$ 2.25	$ 405,000.00	180,000.00	$ 405,000.00	100%		$ -
14	Compaction	CY	160,000	$ 1.10	$ 176,000.00	160,000.00	$ 176,000.00	100%		$ -
15	Topsoil Replacement/fine grade	CY	10,000	$ 10.00	$ 100,000.00		$ -	0%		$ -
16	Rock Excavation	CY	9,750	$ 10.00	$ 97,500.00	9,750.00	$ 97,500.00	100%		$ -
	Site Grading Sub Total				**$ 850,500.00**		$ 750,500.00	88%		$ -
	Retention Ponds	Unit	Quantity	Unit cost	Total					
17	Rock Excavation	CY	10,000	$ 10.00	$ 100,000.00	10,000.00	$ 100,000.00	100%		$ -
18	Dirt Excavation	CY	5,000	$ 2.25	$ 11,250.00	5,000.00	$ 11,250.00	100%		$ -
19	Faircloth skimmers	LS	3	$ 10,000.00	$ 30,000.00	3.00	$ 30,000.00	100%		$ -
20	Storm structure	LS	3	$ 5,000.00	$ 15,000.00	3.00	$ 15,000.00	100%		$ -
	Retention Ponds Sub Total				**$ 156,250.00**		$ 156,250.00	100%		$ -
	Natural Trails and Eight Lighted Tennis Courts	Unit	Quantity	Unit cost	Total					
21	Tennis Courts	LS	1	$ 640,000.00	$ 640,000.00		$ -	0%		$ -
22	Retaining Walls at Tennis Courts	LS	1	$ 170,000.00	$ 170,000.00		$ -	0%		$ -
23	Natural trail 10' Approx. 5 = miles	SY	33,710	$ 12.00	$ 404,520.00		$ -	0%		$ -
	Trails and Tennis Courts Sub Total				**$ 1,214,520.00**		$ -	0%		$ -

ESTIMATE OF WORK COMPLETE

DATE: November 30, 2013 FOR PERIOD: November 2013

ESTIMATE No.: 5

PROJECT LOCATION: Rock Chalk Site Work

ESTIMATE ON LUMP SUM & GRADING ITEMS

				CONTRACTED		COMPLETED TO DATE		Percent Complete	COMPLETED THIS PAY PERIOD	
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT	UNIT	AMOUNT		UNIT	AMOUNT
	Waterline	Unit	Quantity	Unit cost	Total					
22	Connect to Existing water line	1	1	$ 750.00	$ 750.00	1.00	$ 750.00	100%		$ -
23	12" C900 DR14 Water line	LF	7,642	$ 36.87	$ 281,760.54	7,654.00	$ 282,202.98	100%	764.00	$ 28,168.68
24	8" PVC C900 DR14 Water line	LF	472	$ 29.00	$ 13,688.00	486.00	$ 14,094.00	103%		$ -
25	3" M.J. Gate Valve	EACH	2	$ 500.00	$ 1,000.00	2.00	$ 1,000.00	100%		$ -
26	6" M.J. Gate Valve	EACH	2	$ 825.00	$ 1,650.00	2.00	$ 1,650.00	100%		$ -
27	8" M.J. Gate Valve	EACH	2	$ 1,300.00	$ 2,600.00	2.00	$ 2,600.00	100%		$ -
28	12" MJ Gate Valve	EACH	33	$ 1,500.00	$ 49,500.00	33.00	$ 49,500.00	100%	5.00	$ 7,500.00
29	Fire Hydrant Assembly	EACH	17	$ 3,300.00	$ 56,100.00	18.00	$ 59,400.00	106%	2.00	$ 6,600.00
30	Private Fire Hydrant Assembly (Painted Red)	EACH	2	$ 3,300.00	$ 6,600.00	2.00	$ 6,600.00	100%		$ -
31	Flowable Fill	LS	1	$ 26,910.00	$ 26,910.00	0.64	$ 17,222.40	64%	0.02	$ 538.20
32	2" Curb Stop with Auto Flusher and RIPRAP	LS	1	$ 6,000.00	$ 6,000.00	1.00	$ 6,000.00	100%	1.00	$ 6,000.00
33	Water Meter Pits	LS	1	$ 20,303.11	$ 20,303.11	1.00	$ 20,303.11	100%		$ -
34	Concrete Encasement	LF	20	$ 60.00	$ 1,200.00	20.00	$ 1,200.00	100%	20.00	$ 1,200.00
	Waterline Sub Total				$ 468,061.65		$ 462,522.49	99%		$ 50,006.88
	Sanitary Sewer	Unit	Quantity	Unit cost	Total					
35	8" SDR26 PVC granular embedment	LF	2,019	$ 44.00	$ 88,836.00	2,019.00	$ 88,836.00	100%		$ -
36	*STD Manhole 4" DIA, 6' Depth*	EACH	8	$ 2,000.00	$ 16,000.00	8.00	$ 16,000.00	100%		$ -
37	Extra Depth 4' DIA Manhole	VF	12.46	$ 100.00	$ 1,246.00	16.05	$ 1,605.00	129%		$ -
38	Drop Manhole 5' DIA 6' Depth	EACH	1	$ 2,970.00	$ 2,970.00	1.00	$ 2,970.00	100%		$ -
39	Extra Depth 5' DIA Manhole	VF	6.3	$ 110.00	$ 693.00	6.30	$ 693.00	100%		$ -
40	6" Service Line	EACH	4	$ 500.00	$ 2,000.00	4.00	$ 2,000.00	100%		$ -
41	Connect to Existing Manhole	EACH	1	$ 500.00	$ 500.00	1.00	$ 500.00	100%		$ -
42	Concrete Collars	EACH	7	$ 570.00	$ 3,990.00	7.00	$ 3,990.00	100%		$ -
43	Flowable Mortar Backfill	CY	403	$ 70.00	$ 28,210.00	560.00	$ 39,200.00	139%		$ -
44	Seed, Fertilize, Mulch and Erosion Netting	LS	1	$ 5,500.00	$ 5,500.00	1.00	$ 5,500.00	100%		$ -
45	Construction Staking	No Bid	No Bid	No Bid	No Bid					
46	Rip Rap Erosion Protection	LS	1	$ 2,500.00	$ 2,500.00	1.00	$ 2,500.00	100%		$ -
47	Concrete Encasement	LF	45	$ 50.00	$ 2,250.00	45.00	$ 2,250.00	100%		$ -
48	Impervious Ditch Check	LS	1	$ 750.00	$ 750.00	1.00	$ 750.00	100%		$ -
49	Polyurethane Manhole Lining	LS	1	$ 7,397.50	$ 7,397.50	1.00	$ 7,397.50	100%		$ -
	Sanitary Sewer Sub Total				$ 162,842.50		$ 174,191.50	107%		$ -

ESTIMATE OF WORK COMPLETE

DATE: November 30, 2013 — **FOR PERIOD: November 2013**

ESTIMATE No.: 5

PROJECT LOCATION: Rock Chalk Site Work — ESTIMATE ON LUMP SUM & GRADING ITEMS

				CONTRACTED		COMPLETED TO DATE		Percent Complete	COMPLETED THIS PAY PERIOD	
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT	UNIT	AMOUNT		UNIT	AMOUNT
	Storm Sewer	Unit	Quantity	Unit cost	Total					
50	15" HDPE	LF	38	$ 23.75	$ 902.50	38.00	$ 902.50	100%		$ -
51	15" Reinforced Concrete Pipe	LF	79	$ 24.75	$ 1,955.25	79.00	$ 1,955.25	100%	79.00	$ 1,955.25
52	18" HDPE	LF	87	$ 24.00	$ 2,088.00	87.00	$ 2,088.00	100%		$ -
53	18" Reinforced Concrete Pipe	LF	76	$ 25.00	$ 1,900.00	76.00	$ 1,900.00	100%		$ -
54	24" HDPE	LF	706	$ 30.00	$ 21,180.00	706.00	$ 21,180.00	100%		$ -
55	24" Reinforced Concrete Pipe	LF	38	$ 32.00	$ 1,216.00	38.00	$ 1,216.00	100%		$ -
56	30" HDPE	LF	19	$ 39.00	$ 741.00	19.00	$ 741.00	100%		$ -
57	48" Reinforced Concrete Pipe	LF	103	$ 105.00	$ 10,815.00	103.00	$ 10,815.00	100%		$ -
58	15" RCP End Section	EACH	1	$ 450.00	$ 450.00	1.00	$ 450.00	100%	1.00	$ 450.00
59	30" RCP End Section	EACH	1	$ 450.00	$ 450.00	1.00	$ 450.00	100%		$ -
60	48" RCP End Section	EACH	2	$ 1,900.00	$ 3,800.00	2.00	$ 3,800.00	100%		$ -
61	5'x4' Curb Inlet	EACH	6	$ 2,025.00	$ 12,150.00	6.00	$ 12,150.00	100%	2.00	$ 4,050.00
62	10'x4' Curb Inlet	EACH	3	$ 3,252.00	$ 9,756.00	3.00	$ 9,756.00	100%		$ -
63	4'x4' Junction Box	EACH	1	$ 2,185.00	$ 2,185.00	1.00	$ 2,185.00	100%		$ -
64	18"NOM DIA Rip Rap	SY	84	$ 25.00	$ 2,100.00	84.00	$ 2,100.00	100%		$ -
65	Flowable fill	LS	1	$ 11,000.00	$ 11,000.00	1.00	$ 11,000.00	100%	0.25	$ 2,750.00
	Storm Sewer Sub Total				**$ 82,688.75**		$ 82,688.75	100%		$ 9,205.25
	Parking Lot Lights	Unit	Quantity	Unit cost	Total					
66	LED - Dual Fixtures	LS	1	$ 120,000.00	$ 120,000.00		$ -	0%		$ -
67	Pole Bases	LS	1	$ 25,000.00	$ 25,000.00		$ -	0%		$ -
68	Conduit	LS	1	$ 40,000.00	$ 40,000.00	0.80	$ 32,000.00	80%		$ -
69	Conduit Westar	LS	1	$ 25,000.00	$ 25,000.00	0.50	$ 12,500.00	50%		$ -
70	Conduit for Fiber	LF	1	$ -	$ -		$ -	0%		$ -
71	Electric Service - labor	LS	1	$ 30,000.00	$ 30,000.00		$ -	0%		$ -
	Parking Lot Lights Sub Total				**$ 240,000.00**		$ 44,500.00	19%		$ -
	Landscaping	Unit	Quantity	Unit cost	Total					
72	Trees	EACH	450	$ 425.00	$ 191,250.00		$ -	0%		$ -
73	Shrubs	EACH	710	$ 60.00	$ 42,600.00		$ -	0%		$ -
74	Site Entry signs	LS	1	$ 150,000.00	$ 150,000.00		$ -	0%		$ -
75	Irrigation	LS	1	$ 100,000.00	$ 100,000.00	0.50	$ 50,000.00	50%		$ -

ESTIMATE OF WORK COMPLETE

DATE: November 30, 2013 FOR PERIOD: November 2013

ESTIMATE No.: 5

PROJECT LOCATION: Rock Chalk Site Work

ESTIMATE ON LUMP SUM & GRADING ITEMS

ITEM	DESCRIPTION	UNIT	QUANTITY	CONTRACTED UNIT PRICE	CONTRACTED AMOUNT	COMPLETED TO DATE UNIT	COMPLETED TO DATE AMOUNT	Percent Complete	COMPLETED THIS PAY PERIOD UNIT	COMPLETED THIS PAY PERIOD AMOUNT
76	Misc	LS	1	$ 100,000.00	$ 100,000.00		$ -	0%		$ -
	Landscaping Sub Total				$ 583,850.00		$ 50,000.00	9%		$ -
	Rock Chalk Drive & George Williams	Unit	Quantity	Unit cost	Total					
77	Unclassified excavation	CY	15,934	$ 5.00	$ 79,670.00	15,934.00	$ 79,670.00	100%		$ -
78	Compacted fill	CY	1,790	$ 1.00	$ 1,790.00	1,790.00	$ 1,790.00	100%	447.50	$ 447.50
79	Site restoration	LS	1	$ 5,000.00	$ 5,000.00		$ -	0%		$ -
80	10" NRDJ Portland cement conc pave	SY	9,758	$ 55.00	$ 536,690.00	9,249.00	$ 508,695.00	95%	9,249.00	$ 508,695.00
81	Type CG-1 Concrete curb & gutter	LF	6,257	$ 16.00	$ 100,112.00	6,096.00	$ 97,536.00	97%	6,096.00	$ 97,536.00
82	4" x 5' Concrete sidewalk	SY	40	$ 30.00	$ 1,200.00		$ -	0%		$ -
83	6" x 10' Fiber reinforced conc sdwk	SY	4,078	$ 40.00	$ 163,120.00		$ -	0%		$ -
84	Access ramps	EACH	13	$ 1,000.00	$ 13,000.00		$ -	0%		$ -
85	Compaction tests street	LS	5	$ 100.00	$ 500.00		$ -	0%		$ -
86	Construction Staking	No Bid	No Bid	No Bid	No Bid					
87	Seed, Fertilize & Mulch	LS	1	$ 4,000.00	$ 4,000.00		$ -	0%		$ -
88	Clearing, Grubbing & Tree Removal	LS	1	$ 1,250.00	$ 1,250.00	1.00	$ 1,250.00	100%		$ -
89	Treatment of subgrade 12" fly ash & 4"AB3	SY	11,825	$ 9.33	$ 110,327.25		$ -	0%		$ -
90	Erosion Control	LS	1	$ 2,670.00	$ 2,670.00		$ -	0%		$ -
91	Section Corner Monument Box	LS	1	$ 1,000.00	$ 1,000.00		$ -	0%		$ -
92	2" Conduit	LF	1,701	$ 2.00	$ 3,402.00		$ -	0%		$ -
93	4" Conduit	LF	997	$ 2.00	$ 1,994.00		$ -	0%		$ -
94	Traffic Control Signage	LS	1	$ 500.00	$ 500.00		$ -	0%		$ -
					$ 1,026,225.25		$ 688,941.00	67%		$ 606,678.50
	Overflow Parking Lot	Unit	Quantity	Unit cost	Total					
95	Concrete access ramps	SY	464	$ 50.00	$ 23,200.00		$ -	0%		$ -
96	Lot Grading	LS	1	$ 25,000.00	$ 25,000.00		$ -	0%		$ -
97	Temporary Gravel Laydown	LS	1	$ 20,000.00	$ 20,000.00		$ -	0%		$ -
	Overflow Parking Lot Sub Total				$ 68,200.00		$ -	0%		$ -
	Parking Lot/ Access Drives	Unit	Quantity	Unit cost	Total					
98	Concrete parking lot	SY	44,356	$ 44.00	$ 1,951,664.00	40,725.00	$ 1,791,900.00	92%	1,082	$ 47,608.00
99	CG-1 curb and gutter	LF	15,338	$ 18.00	$ 276,084.00	7,314.00	$ 131,652.00	48%	7,314.00	$ 131,652.00
100	Concrete parking and Bus lane	SY	7,337	$ 50.00	$ 366,850.00		$ -	0%		$ -

ESTIMATE OF WORK COMPLETE

DATE: November 30, 2013 **FOR PERIOD: November 2013**

ESTIMATE No.: 5

PROJECT LOCATION: Rock Chalk Site Work ESTIMATE ON LUMP SUM & GRADING ITEMS

				CONTRACTED		COMPLETED TO DATE		Percent Complete	COMPLETED THIS PAY PERIOD	
ITEM	**DESCRIPTION**	**UNIT**	**QUANTITY**	**UNIT PRICE**	**AMOUNT**	**UNIT**	**AMOUNT**		**UNIT**	**AMOUNT**
101	Fire lane / Access roads	SY	8,593	$ 44.00	$ 378,092.00		$ -	0%		$ -
102	Storm Sewer	LS	1	$ 157,000.00	$ 157,000.00	0.62	$ 97,340.00	62%		$ -
103	Trim Subgrade	SY	65,393	$ 1.25	$ 81,741.25	61,002.00	$ 76,252.50	93%	5,998	$ 7,497.50
104	Treatment of subgrade - 12"Fly ash & 4" AB3	SY	65,425	$ 9.33	$ 610,415.25	46,887.00	$ 437,455.71	72%		$ -
	Parking Lot/ Access Drives Sub Total				**$ 3,821,846.50**		$ 2,534,600.21	66%		$ 186,757.50
	Rock Chalk Lane and Rock Chalk Parkway	**Unit**	**Quantity**	**Unit cost**	**Total**					
105	Unclassified excavation	CY	3,017	$ 5.00	$ 15,085.00	3,017.00	$ 15,085.00	100%		$ -
106	Compacted fill	CY	2,920	$ 1.00	$ 2,920.00	2,920.00	$ 2,920.00	100%		$ -
107	Site restoration	LS	1	$ 5,000.00	$ 5,000.00		$ -	0%		$ -
108	8" NRDJ Portland cement	SY	9,524	$ 50.00	$ 476,200.00	7,963.00	$ 398,150.00	84%	1,728.00	$ 86,400.00
109	CG-1 curb and gutter	LF	5,109	$ 16.00	$ 81,744.00	4,561.00	$ 72,976.00	89%	405.00	$ 6,480.00
110	6" x 10' Fiber rec path	SY	5,163	$ 40.00	$ 206,520.00		$ -	0%		$ -
111	4" x 5' Sidewalk	SY	195	$ 30.00	$ 5,850.00		$ -	0%		$ -
112	Access ramps	EACH	51	$ 1,000.00	$ 51,000.00		$ -	0%		$ -
113	Treatment of subgrade - 12" fly ash & 4"AB3	SY	10,800	$ 9.33	$ 100,764.00	9,192.00	$ 85,761.36	85%	1,075.00	$ 10,029.75
					$ 945,083.00		$ 574,892.36	61%		$ 102,909.75
	Chip and Seal County Road	**Unit**	**Quantity**	**Unit cost**	**Total**					
114	Chip and Seal	SY	10,000	$ 1.80	$ 18,000.00		$ -	0%		$ -
	Chip and Seal County Road Sub Total				**$ 18,000.00**		$ -	0%		$ -
	Rec Center Pad	**Unit**	**Quantity**	**Unit cost**	**Total**					
115	Rock Excavation	CY	18,000	$ 10.00	$ 180,000.00	18,000.00	$ 180,000.00	100%		$ -
116	Dirt Excavation	CY	10,000	$ 2.25	$ 22,500.00	10,000.00	$ 22,500.00	100%		$ -
117	Compaction	CY	8,500	$ 1.10	$ 9,350.00	8,500.00	$ 9,350.00	100%		$ -
118	Fly Ash 18"	SY	12,000	$ 8.00	$ 96,000.00	12,000.00	$ 96,000.00	100%		$ -
119	AB3 Entire building Pad	SY	20,100	$ 4.00	$ 80,400.00	20,100.00	$ 80,400.00	100%		$ -
120	AB3 Additional depth rock area	SY	8,000	$ 5.50	$ 44,000.00	8,000.00	$ 44,000.00	100%		$ -
					$ 432,250.00		$ 432,250.00	100%		$ -
				GRAND TOTAL	**$ 12,265,168.65**		**$ 6,369,546.31**	52%		**$ 955,557.88**

ESTIMATE OF WORK COMPLETE

DATE: November 30, 2013 **FOR PERIOD: November 2013**

ESTIMATE No.: 5

PROJECT LOCATION: Rock Chalk Site Work

ESTIMATE ON LUMP SUM & GRADING ITEMS

ITEM	DESCRIPTION	UNIT	QUANTITY	CONTRACTED UNIT PRICE	CONTRACTED AMOUNT	COMPLETED TO DATE UNIT	COMPLETED TO DATE AMOUNT	Percent Complete	COMPLETED THIS PAY PERIOD UNIT	COMPLETED THIS PAY PERIOD AMOUNT
	General	**Total**	**$ 418,210.00**	19%	**$ 2,194,851.00**					
	Site Grading	**Total**	**$ 750,500.00**	88%	**$ 850,500.00**					
	Retention Ponds	**Total**	**$ 156,250.00**	100%	**$ 156,250.00**					
	Eight Lighted Tennis Courts	**Total**	**$ -**	0%	**$ 1,214,520.00**					
	Waterline	**Total**	**$ 462,522.49**	99%	**$ 468,061.65**					
	Sanitary Sewer	**Total**	**$ 174,191.50**	107%	**$ 162,842.50**					
	Storm Sewer	**Total**	**$ 82,688.75**	100%	**$ 82,688.75**					
	Parking Lot Lights	**Total**	**$ 44,500.00**	19%	**$ 240,000.00**					
	Landscaping	**Total**	**$ 50,000.00**	9%	**$ 583,850.00**					
	Rock Chalk Drive and George Williams Way	**Total**	**$ 688,941.00**	67%	**$ 1,026,225.25**					
	Overflow Parking Lot	**Total**	**$ -**	0%	**$ 68,200.00**					
	Parking Lot/ Access Drives	**Total**	**$ 2,534,600.21**	66%	**$ 3,821,846.50**					
	Rock Chalk Lane and Rock Chalk Parkway	**Total**	**$ 574,892.36**	61%	**$ 945,083.00**					
	Chip and Seal County Road	**Total**	**$ -**	0%	**$ 18,000.00**					
	Rec Center Pad	**Total**	**$ 432,250.00**	100%	**$ 432,250.00**					
	Grand	**Total**	**$ 6,369,546.31**	52%	**$ 12,265,168.65**					

ITEM	CHANGE ORDERS: DESCRIPTION	UNIT	QUANTITY	CONTRACTED UNIT PRICE	CONTRACTED AMOUNT	COMPLETED TO DATE UNIT	COMPLETED TO DATE AMOUNT	Percent Complete	COMPLETED THIS PAY PERIOD UNIT	COMPLETED THIS PAY PERIOD AMOUNT
1	4" Conduit	LF	10000		$ -	7737	$ -			$ -
2	3" Conduit for Security Cameras	LF	600		$ -	600	$ -			$ -
3	Treatment of subgrade 9" flyash RCD & GWW	SY	11825		$ -	11211	$ -	95%	2342.25	$ -
4	12" HDPE Storm Pipe	LF	42		$ -	42	$ -	100%	42	$ -
5	12" CMP End Section	EA	1		$ -		$ -			$ -
6	Subgrade 12" Crushed Conc. Parking Lot	SY			$ -	5998	$ -		5998	$ -
	CHANGE ORDER TOTAL:				$ -		$ -			$ -
	GRAND TOTAL				**$ 12,265,168.65**		**$ 6,369,546.31**			**$ 955,557.88**

ESTIMATE OF WORK COMPLETE

DATE: November 30, 2013 **FOR PERIOD: November 2013**

ESTIMATE No.: 5

PROJECT LOCATION: Rock Chalk Site Work

ESTIMATE ON LUMP SUM & GRADING ITEMS

				CONTRACTED		COMPLETED TO DATE		Percent Complete	COMPLETED THIS PAY PERIOD	
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT	UNIT	AMOUNT		UNIT	AMOUNT

AMOUNT OF CURRENT CONTRACT:	**$**	**12,265,168.65**
AMOUNT OF ORIGINAL CONTRACT:	$	12,265,168.65
TOTAL WORK COMPLETED TO DATE:	$	6,369,546.31
TOTAL PREVIOUS PAYMENTS:	$	-
AMOUNT COMPLETED THIS PAY PERIOD:	$	955,557.88

FIELD REPORT

Project: Rock Chalk Park
City & State: City of Lawrence
Job No.: 13-1557L
Contractor: Bliss Sports

CONSTRUCTION LOG: November 30, 2013

8:00 AM Arrived at project site. The Contractor is completing prep work to place the concrete pavement at the north end of George Williams Way and the tie-in to a private drive.

Work to be corrected includes:

1) Install tie bars for curb/gutter and pavement.

2) Install dowel baskets for contraction joints. The contractor does not have a joint layout for this work. This location was revised from a three leg intersection to a radius sweep.

3) The curb and gutter has already been placed but the curb joints do not match the pavement joints.

4) Clean headers at both ends of placement to a vertical face.

5) The construction joint at the Private Drive has dowels in the right lane and deformed tie bars in the left lane. Casey Stewart informed me that is how all the joints are and he would not change it (see photo). Some dowels are bent into the subgrade (see photos).

9:00 AM Concrete arrived at the project but the prep work has yet to be completed.

Continued to drill and drive 30" epoxy tie bars at 24" OC. Originally only 3" to 4" embediment. Contractor not using epoxy to install bars. Requested Buddy increase embedment. They drove bars another 2" to 3".

Set dowel baskets to the Contractor's layout (see photos). Asked the Contractor to mark location of baskets with paint for initial sawcut of the pavement. They did not have paint so they used metal pins. It appeared that several pins were moved during the concrete placement.

The Contractor began placing concrete for pavement. Hand vibrating concrete. Grade pins at CL for a normal crown.

Depth checks for 10" pavement satisfactory.

The private drive was 8" at the header.

The Contractor is not cutting the tie wire on the dowel baskets after staking the basket. Stated they have not cut the ties on any baskets for this project.

1:00 PM The Contractor also placed 8" concrete pavement entrance to the parking lot just west of the end of George Williams Way. No tie bars for the curb/gutter and pavement.

Inspector: Carlson Hrs: 1 ½ RT
5 OT

PHOTO LOG:

Construction joint on George Williams Way.

Private Drive to Parking Lot Entrance
No tie bars to Curb and gutter.

No tie bars. Requested Contractor install epoxy coated bar to be drilled and grouted.

Placing concrete.

Bent dowel bars.

Began placing 10" concrete pavement.

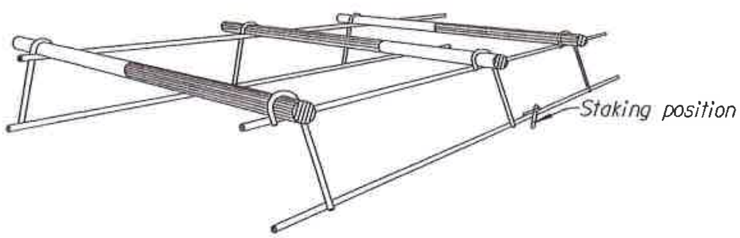
Backing ready-mix truck over smooth dowels.

Dowel basket in the west bound lane.

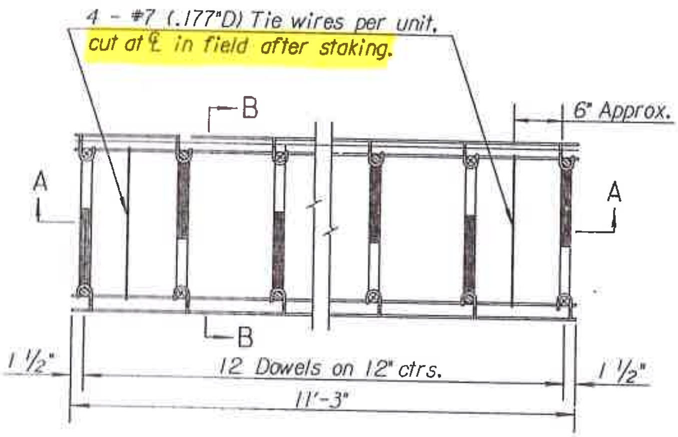
Vibrating concrete.

Backed ready-mix truck over dowel bars.
Note deformed tie bars in Left Lane.

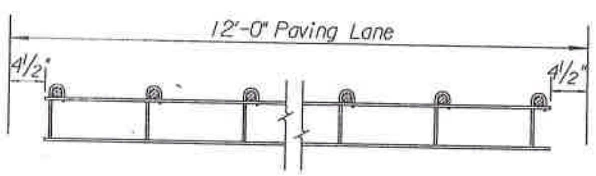
STATE	PROJECT NO.	YEAR	SHEET NO
KANSAS	24-81KA 0459-01	2007	34



PERSPECTIVE VIEW

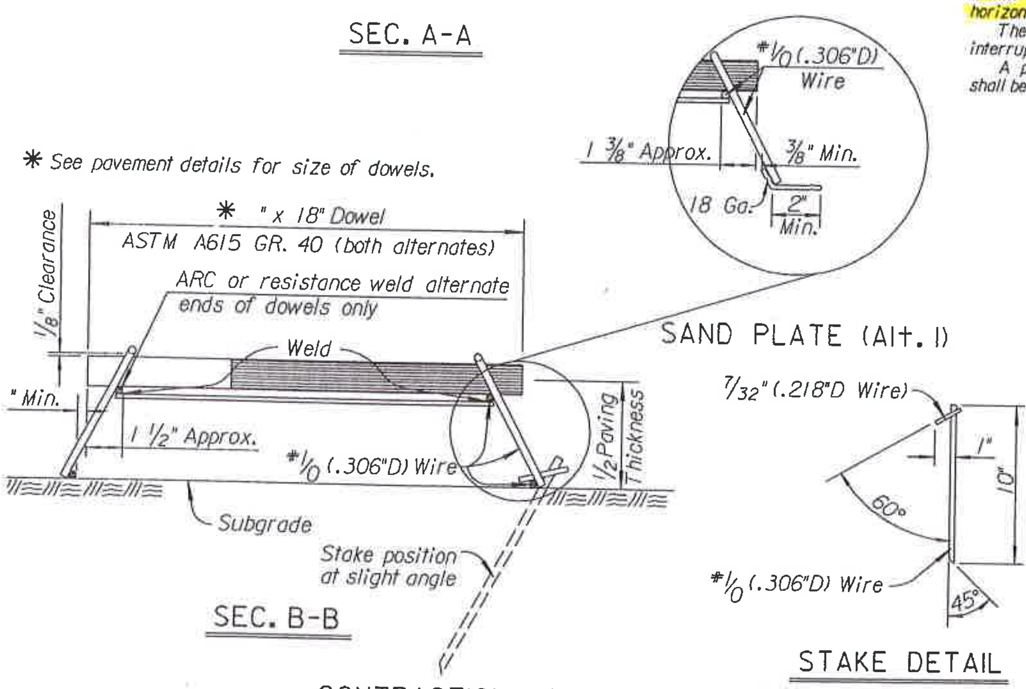


PLAN VIEW



SEC. A-A

✱ See pavement details for size of dowels.



SEC. B-B

SAND PLATE (Alt. I)

CONTRACTION JOINT

STAKE DETAIL

(6 Pieces minimum required)

GENERAL NOTE

Dowel bar insertion may be by mechanical dowel placers regardless of the joint spacing.

Each dowel bar shall be coated with an epoxy coating that meets the standard specifications. The coating material shall be a powdered epoxy re[sin] approved by the Chief, Bureau of Materials and Research and shall be uniformly applied according to accepted practices and the resin manufacturer recommendations. For Alt. I the coating need not be applied to the end fac[e] of the bars and will not be required within 2" of the end which will be fix[ed] in the supporting basket by welding.

The cutting to length of the dowel bars shall be done in such a manner to result in no appreciable deformation of the ends.

Alt. I (Baskets)

Wire sizes shown are minimum required.

Basket to be staked to sub-grade, as shown. Ramset or similar type fastener with clip to be used when subgrade condition requires it.

A string line shall be stretched between the pavement forms along the center line of the joint. The position of the joint shall be carefully marked so that the saw cut will coincide with the center line of the joint.

In order to identify the location of the bond breaker application, the working end of dowel and the supporting leg shall receive a light application of red paint at the place of fabrication. The bond breaker to be applie[d] in the field prior to concrete placement shall consist of coating approximate[ly] three-fifths of the length of each dowel bar with hard grease at the worki[ng] end identified by the red paint.

The entire joint assembly shall be carefully leveled so that the dowels are parallel to the slab surface and free to slide in the dowel holders. Any coating scraped off the dowels in assembling the joint shall be replaced.

After the complete contraction joint is assembled, it shall be checked to be certain that the vertical plane of the joint will be perpendicular to the finished surface of the slab and at a right angle with the center line of the slab unless shown otherwise on the plans. The dowels shall be check[ed] to be certain that they are level and will remain in a position parallel with the finished surface of the slab.

Concrete shall be placed over and adjacent to the joint in accordance with the requirements of the Specifications.

Other approved designs may be used in lieu of the type shown.

Alt. 2 (Mechanical placement)

Joint spacing shall be normal to centerline.

The pavement shall be placed and consolidated to full depth prior to insertion of the dowel bars.

The dowel bars shall be coated with a bond breaking agent prior to insertion into the plastic concrete.

The dowel bars shall be inserted into the plastic concrete ahead of the finishing beam or screed.

The installing device shall consolidate the concrete around the dowel bars such that no voids exist, without the supplemental use of hand held vibrators.

The dowel bars shall be located within one inch of the planned transverse location and within the range of depth of D/2 ± 0.1 D measured from mid depth and mid length of the bar where D represents the pavement thickness.

The dowel bars shall be located within two inches of the planned longitudinal location.

The dowel bars shall be parallel to the pavement surface and centerline within a tolerance of one half inch in 18 inches in both the vertical and horizontal direction.

The forward movement of the finishing beam or screed shall not be interrupted by the inserting of the dowel bars.

A positive method of marking the locations of the transverse joints shall be provided.

NO.	DATE	REVISIONS	BY	A
8	2-15-06	Chg. Grade 60 to Grade 40 Steel	S.W.K.	J.
7	5- 5-04	Revision on Epoxy coating	S.W.K.	J.
6	4- 9-03	Rev. General Note on Epoxy coating	S.W.K.	J.
5	4-24-90	Revised notes, added Alt. 1&2 Cont.Jt.	R.J.S.	J.

KANSAS DEPARTMENT OF TRANSPORTATION

CONTRACTION & EXPANSION JT. DOWEL ASSEMBLIES

RD735

FHWA APPROVAL 4-20-06 APP'D. James O. Brewer