KTM DESIGN SOLUTIONS, INC.

Project Name: North Valley Pa
Project Number: 17-0883
Owner: BH CAPITAL, LL
Date: August 1, 2018
Completed By/Reviewed By: KT/JH/BU

Storm Drainage

ENGINEER'S ESTIMATE OF PROBABLE CONSTRUCTION COST									
		Contract Value				Don Lon Pond Quantity		Drainage Oversize Value (75%)	
ITEM NO.	DESCRIPTION OF ITEM	QUANTITY	UNIT	UNIT COST	EXTENDED TOTAL	QUANTITY	EXTENDED TOTAL	QUANTITY	EXTENDED TOTAL
	GENERAL								
100	MOBILIZATION	1	LS	$7,500.00	$7,500.00	0.2	$1,500.00	0.75	$1,125.00
101	MATERIAL TESTING	1	LS	$6,500.00	$6,500.00	0.15	$975.00	0.75	$731.25
102	CONSTRUCTION STAKING	1	LS	$6,500.00	$6,500.00	0.15	$975.00	0.75	$731.25
103	TRAFFIC CONTROL	1	LS	$11,700.00	$11,700.00		$0.00		$0.00
104	REMOVALS	1	LS	$10,000.00	$10,000.00		$0.00		$0.00
									$0.00
	SURFACING								$0.00
200	ASPHALT, CLASS G, TYPE 1 PG64-28*	1087	TONS	$85.94	$93,416.78		$0.00		$0.00
201	BASE COURSE	2511	TONS	$18.00	$45,198.00		$0.00		$0.00
202	CONCRETE CURB & GUTTER, TYPE B	2113	LF	$19.50	$41,203.50		$0.00		$0.00
203	EDGE DRAIN	2113	LF	$7.50	$15,847.50		$0.00		$0.00
204	CONCRETE FILLET, 8" REINFORCED	341	SY	$55.00	$18,755.00		$0.00		$0.00
205	PCC PAVEMENT, 7.0" NON REINFORCED	118	SY	$55.00	$6,490.00		$0.00		$0.00
206	ASPHALT PATCHING	1	LS	$4,500.00	$4,500.00		$0.00		$0.00
207	GRAVEL TURNAROUND 6"	291	TONS	$21.00	$6,111.00		$0.00		$0.00
208	SIDEWALK ADA RAMPS	6	EA	$500.00	$3,000.00		$0.00		$0.00
									$0.00
	WATER								$0.00
300	12" PVC WATER MAIN C-900, CLASS 150	1008	LF	$45.00	$45,360.00		$0.00		$0.00
301	CONCRETE ENCASEMENT	20	LF	$65.00	$1,300.00		$0.00		$0.00
302	6"X12" TEE	1	EA	$1,300.00	$1,300.00		$0.00		$0.00
303	12"X12"X6" TEE	3	EA	$1,200.00	$3,600.00		$0.00		$0.00
304	12" BEND	3	EA	$1,200.00	$3,600.00		$0.00		$0.00
305	12" GATE VALVE W/ BOX	3	EA	$2,600.00	$7,800.00		$0.00		$0.00
306	12" CAP	1	EA	$1,100.00	$1,100.00		$0.00		$0.00
307	FIRE HYDRANT ASSEMBLY	3	EA	$5,000.00	$15,000.00		$0.00		$0.00
308	CONNECT TO EXISTING WATER MAIN	1	EA	$6,200.00	$6,200.00		$0.00		$0.00
309	WATER SERVICE COMMERICAL 6"	6	EA	$2,900.00	$17,400.00		$0.00		$0.00
310	12" HD COUPLING	1	EA	$1,000.00	$1,000.00		$0.00		$0.00
									$0.00
	SANITARY SEWER								$0.00
400	10" PVC SEWER MAIN**	2046	LF	$40.00	$81,840.00		$0.00		$0.00
401	10" PVC CAP	1	EA	$500.00	$500.00		$0.00		$0.00
402	10" CERTA-LOK SDR PIPE	156	LF	$50.00	$7,800.00		$0.00		$0.00
403	6" SANITARY SERVICE	6	EA	$1,250.00	$7,500.00		$0.00		$0.00
404	48" SANITARY SEWER MANHOLE, STANDARD	9	EA	$4,500.00	$40,500.00		$0.00		$0.00
405	BORE AND CASE	156	LF	$525.00	$81,900.00		$0.00		$0.00
406	24", .5" THICK, STEEL PIPE	156	LF	$60.00	$9,360.00		$0.00		$0.00
									$0.00
	STORM SEWER								$0.00
500	CLASS II RIP RAP	68	TONS	$55.00	$3,740.00		$0.00		$0.00
501	CLASS III RIP RAP	59	TONS	$55.00	$3,245.00	59	$3,245.00	0.75	$2,433.75
502	15" RCP	6	LF	$50.00	$300.00		$0.00		$0.00
503	18" RCP	95.5	LF	$45.00	$4,297.50		$0.00		$0.00
504	24" RCP	178	LF	$55.00	$9,790.00		$0.00		$0.00
505	30" RCP	286	LF	$69.00	$19,734.00		$0.00		$0.00
506	48" RCP	91.1	EA	$115.00	$10,476.50	91.1	$10,476.50	0.75	$7,857.38
507	30" FLARED END	3	EA	$1,250.00	$3,750.00		$0.00		$0.00
508	48" FLARED END	1	EA	$1,800.00	$1,800.00	1	$1,800.00	0.75	$1,350.00
509	TYPE B DROP INLET	2	EA	$3,000.00	$6,000.00		$0.00		$0.00
510	SPECIAL TYPE B DROP INLET	2	EA	$4,200.00	$8,400.00		$0.00		$0.00
511	TYPE S DROP INLET	1	EA	$7,500.00	$7,500.00		$0.00		$0.00
512	TYPE E DROP INLET	1	EA	$7,500.00	$7,500.00		$0.00		$0.00
513	DETENTION STRUCTURE	1	EA	$6,700.00	$6,700.00	1	$6,700.00	0.75	$5,025.00
									$0.00
	GRADING								$0.00
600	UNLCASSIFIED EXCAVATION	74813	CY	$3.00	$224,439.00	58975	$176,925.00	0.75	$132,693.75
601	TOPSOIL, STRIP / STOCKPILE & REPLACE (6")	14092	CY	$3.50	$49,322.00	4869	$17,041.50	0.75	$12,781.13
602	SEEDING, FERTILIZING & MULCHING	17.24	AC	$1,100.00	$18,964.00	6.036	$6,639.60	0.75	$4,979.70
									$0.00
	EROSION CONTROL								$0.00
700	EROSION CONTROL	1	LS	$12,000.00	$12,000.00	0.35	$4,200.00	0.75	$3,150.00
701	TYPE 2 EROSION CONTROL BLANKET	1883	SY	$2.50	$4,707.50		$0.00		$0.00
									$0.00
	TRAFFIC CONTROL								$0.00
700	SIGNAGE/STRIPING LUMP SUM	1	LS	$ 12,000.00	$12,000.00		$0.00		$0.00
701	JOINT UTILITY TRENCH	840	LF	$ 10.00	$8,400.00		$0.00		$0.00
702	1.5" STREET LIGHT CONDUIT	840	LF	$ 3.50	$2,940.00		$0.00		$0.00
703	ELECTRICAL CONDUIT	2520	LF	$ 5.00	$12,600.00		$0.00		$0.00
					$ 1,048,387.28		$230,477.60	Oversize	$172,858.20
							Easement 4.44Acre @ $1.95 SF		$ 377,142.48
							Contingencies (10%)		$ 17,285.82
							Design & Surveying (8%)		$ 13,828.66
							TOTAL OVERSIZE COSTS		$581,115.16

KTM DESIGN SOLUTIONS, INC.

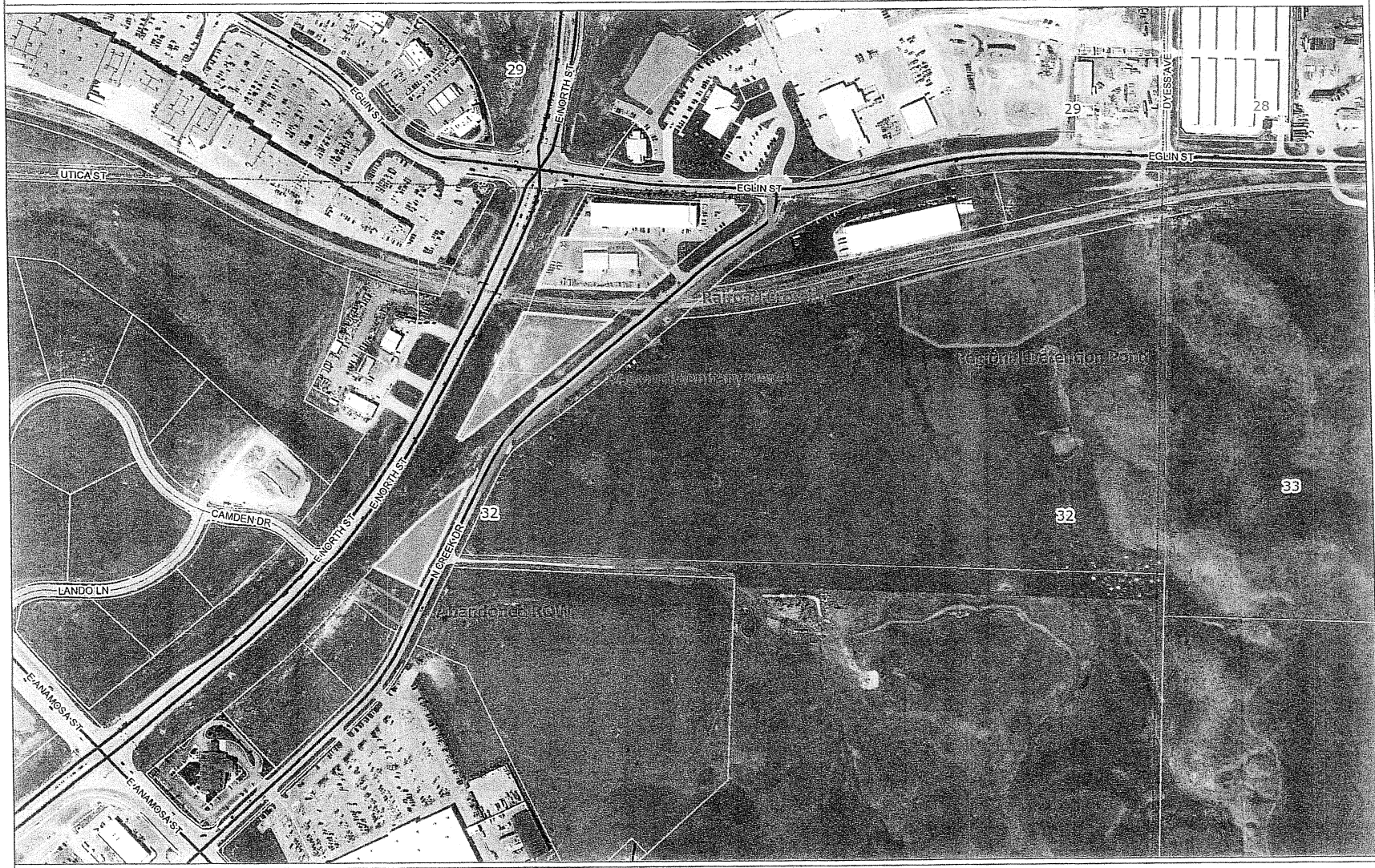
Project Name: North Valley Park Subdivision
Project Number: 17-0883
Owner: BH CAPITAL, LLC
Date: August 1, 2018
Completed By/Reviewed By: KT/JH/BU

Sanitary Sewer

ENGINEER'S ESTIMATE OF PROBABLE CONSTRUCTION COST

				Contract Value		Sanitary Sewer Oversize Value	
ITEM NO.	DESCRIPTION OF ITEM	QUANTITY	UNIT	UNIT COST	EXTENDED TOTAL	QUANTITY	EXTENDED TOTAL
	GENERAL						
100	MOBILIZATION	1	LS	$7,500.00	$7,500.00	0.1	$750.00
101	MATERIAL TESTING	1	LS	$6,500.00	$6,500.00	0.1	$650.00
102	CONSTRUCTION STAKING	1	LS	$6,500.00	$6,500.00	0.1	$650.00
103	TRAFFIC CONTROL	1	LS	$11,700.00	$11,700.00	0.25	$2,925.00
104	REMOVALS	1	LS	$10,000.00	$10,000.00	0.25	$2,500.00
	SURFACING						
200	ASPHALT, CLASS G, TYPE 1 PG64-28*	1087	TONS	$85.94	$93,416.78		$0.00
201	BASE COURSE	2511	TONS	$18.00	$45,198.00		$0.00
202	CONCRETE CURB & GUTTER, TYPE B	2113	LF	$19.50	$41,203.50		$0.00
203	EDGE DRAIN	2113	LF	$7.50	$15,847.50		$0.00
204	CONCRETE FILLET, 8" REINFORCED	341	SY	$55.00	$18,755.00		$0.00
205	PCC PAVEMENT, 7.0" NON REINFORCED	118	SY	$55.00	$6,490.00		$0.00
206	ASPHALT PATCHING	1	LS	$4,500.00	$4,500.00		$0.00
207	GRAVEL TURNAROUND 6"	291	TONS	$21.00	$6,111.00		$0.00
208	SIDEWALK ADA RAMPS	6	EA	$500.00	$3,000.00		$0.00
	WATER						
300	12" PVC WATER MAIN C-900, CLASS 150	1008	LF	$45.00	$45,360.00		$0.00
301	CONCRETE ENCASEMENT	20	LF	$65.00	$1,300.00		$0.00
302	6"X12" TEE	1	EA	$1,300.00	$1,300.00		$0.00
303	12"X12"X6" TEE	3	EA	$1,200.00	$3,600.00		$0.00
304	12" BEND	3	EA	$1,200.00	$3,600.00		$0.00
305	12" GATE VALVE W/ BOX	3	EA	$2,600.00	$7,800.00		$0.00
306	12" CAP	1	EA	$1,100.00	$1,100.00		$0.00
307	FIRE HYDRANT ASSEMBLY	3	EA	$5,000.00	$15,000.00		$0.00
308	CONNECT TO EXISTING WATER MAIN	1	EA	$6,200.00	$6,200.00		$0.00
309	WATER SERVICE COMMERICAL 6"	6	EA	$2,900.00	$17,400.00		$0.00
310	12" HD COUPLING	1	EA	$1,000.00	$1,000.00		$0.00
	SANITARY SEWER						
400	10" PVC SEWER MAIN**	2046	LF	$40.00	$81,840.00	1229	$49,160.00
401	10" PVC CAP	1	EA	$500.00	$500.00		$0.00
402	10" CERTA-LOK SDR PIPE	156	LF	$50.00	$7,800.00	156	$7,800.00
403	6" SANITARY SERVICE	6	EA	$1,250.00	$7,500.00		$0.00
404	48" SANITARY SEWER MANHOLE, STANDARD	9	EA	$4,500.00	$40,500.00	7	$31,500.00
405	BORE AND CASE	156	LF	$525.00	$81,900.00	156	$81,900.00
406	24", .5" THICK, STEEL PIPE	156	LF	$60.00	$9,360.00	156	$9,360.00
	STORM SEWER						
500	CLASS II RIP RAP	68	TONS	$55.00	$3,740.00		$0.00
501	CLASS III RIP RAP	59	TONS	$55.00	$3,245.00		$0.00
502	15" RCP	6	LF	$50.00	$300.00		$0.00
503	18" RCP	95.5	LF	$45.00	$4,297.50		$0.00
504	24" RCP	178	LF	$55.00	$9,790.00		$0.00
505	30" RCP	286	LF	$69.00	$19,734.00		$0.00
506	48" RCP	91.1	EA	$115.00	$10,476.50		$0.00
507	30" FLARED END	3	EA	$1,250.00	$3,750.00		$0.00
508	48" FLARED END	1	EA	$1,800.00	$1,800.00		$0.00
509	TYPE B DROP INLET	2	EA	$3,000.00	$6,000.00		$0.00
510	SPECIAL TYPE B DROP INLET	2	EA	$4,200.00	$8,400.00		$0.00
511	TYPE S DROP INLET	1	EA	$7,500.00	$7,500.00		$0.00
512	TYPE E DROP INLET	1	EA	$7,500.00	$7,500.00		$0.00
513	DETENTION STRUCTURE	1	EA	$6,700.00	$6,700.00		$0.00
	GRADING						
600	UNLCASSIFIED EXCAVATION	74813	CY	$3.00	$224,439.00		$0.00
601	TOPSOIL, STRIP / STOCKPILE & REPLACE (6")	14092	CY	$3.50	$49,322.00		$0.00
602	SEEDING, FERTILIZING & MULCHING	17.24	AC	$1,100.00	$18,964.00		$0.00
	EROSION CONTROL						
700	EROSION CONTROL	1	LS	$12,000.00	$12,000.00		$0.00
701	TYPE 2 EROSION CONTROL BLANKET	1883	SY	$2.50	$4,707.50		$0.00
	TRAFFIC CONTROL						
700	SIGNAGE/STRIPING LUMP SUM	1	LS	$ 12,000.00	$12,000.00		$0.00
701	JOINT UTILITY TRENCH	840	LF	$ 10.00	$8,400.00		$0.00
702	1.5" STREET LIGHT CONDUIT	840	LF	$ 3.50	$2,940.00		$0.00
703	ELECTRICAL CONDUIT	2520	LF	$ 5.00	$12,600.00		$0.00
					$ 1,048,387.28	Oversize	$187,195.00
							$ -
						Contingencies	$ 18,719.50
						Design	$ 14,975.60
						Total	$220,890.10
						Requested Oversize 50%	$110,445.05

RapidMap Rapid City - Pennington County GIS



Legend

Roads
- Interstate
- US highway
- SD highway
- County highway
- Main road
- Minor arterial
- Collector
- Ramp
- Paved road
- Unpaved road
- Unimproved road
- Trail
- Airport Runway
- Not yet coded

Section Lines 0-25k
- 0
- 7

Tax Parcels

Lot Lines
- <Null>
- Lot Line
- Parcel Line

1:4,045

674.1 0 337.06 674.1 Feet

NAD_1983_2011_StatePlane_South_Dakota_South_FIPS_4002_Ft_US

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Map Notes: