

Addendum #3 to the Contract Documents, **Project Specifications and Drawings for**

Project: Cheyenne Boulevard and West Gate Road Trunk Sanitary

Sewer Main Extension City Project 23.030.000 / TDG 24-006

Owner: City of Box Elder

City Engineer: Scott Lange

420 Villa Drive Box Elder, SD 57719

Engineer: Towey Design Group, Inc.

> 147 Chisholm Drive, Box Elder, SD 57719

Bid Location: Towey Design Group

> 147 Chisholm Drive Box Elder, SD 57719

BID DATE: Tuesday April 29, 2025, 2:00 P.M. (MDT)

DATE OF ADD #3: April 24, 2025

SCOPE: This addendum covers the following additions, deletions, modifications, and

clarifications to the Contract Documents, Plans and Specifications. The addendum

consists of five (5) pages.

CHANGES/CARIFICATIONS/ADDITIONS/DELETIONS TO PLANS AND SPECIFICATIONS

SECTION DESCRIPTION

Questions/ Clarifications Question: Does the carrier pipe within the casing need to be

Answer: No. Additional Information: Spacers and end seals are required per Box Elder Standard Specifications within the steel casing.

Question: Bid form is asking for SDR 35 pipe while the plan note on sheet 004 is calling for SDR 26 pipe. Which one will

be required?

Answer: SDR 35 pipe will be required. Items later in this addendum

will change the notes.



Question: Will there be required video inspection for the sanitary sewer and the storm sewer?

Answer: Video inspection for the sanitary sewer **will** be required. Video inspection for the storm sewer will NOT be required. All storm sewer in this project are culverts/ culvert extensions.

Question: Will you add a bid item for the video inspection?

Answer: No. Include the video inspection price in the per LF of sanitary sewer.

Question: Can you add a bid item for Connect to Existing Storm Sewer?

Answer: Yes, It will be added with the changes later in this addendum

Question: There are multiple errors in Bid Schedules 1, 2, 3 and 4. They are not matching with the segments in the sheets.

Answer: Yes, this addendum will fix all the found errors in the bid schedules and quantities in the sheets brought up during the questioning period.

Question: What are the traffic control expectations for the MH202 install adjacent to HWY 14/16? Can we work in the Rail Road Right-of-way or do a 14/16 lane closure?

Answer: A lane closure to HWY 14/16 is available if necessary. Do **not** work in the Railroad Right-of-Way. Traffic barriers along the 14/16 road will be required for the Manhole work.

Question: Will a mass haul diagram be provided for the work?

Answer: No. To make it more clear, a table of the dirt work for each segment is provided below. A 1.2 "fill" factor is included to account for shrinkage. These values are based on a top of surface to top of surface comparison of the finished grade surface to the existing surface shown on the plans.

Segment	Cut (C.Y.)	Fill (C.Y.)	Net	Running
	(Unclassified	(Unclassified	(C.Y.)	Total
	Excavation)	Excavation		(C.Y.)
	(+)	Borrow) (-)		
Segment 1	28,961	-5,501	23,460	23,460
Segment 2	16,156	-20,467	-4,311	19,149
Segment 3	6,315	-24,805	-18,490	659
Segment 4	2,940	-10,379	-7,439	-6,780



Question: Are there any areas where borrow material can be taken from?

Answer: Yes, the owner to the northwest has some hills/ knobs that can be knocked down if needed. The distance of these knobs are **within** 1.5 miles located to the north west from the intersection of Westgate and Cheyenne Blvd. The material can be purchased at \$5.50 per cubic yard of dirt. Any disturbed area must be restored to existing conditions or better. The contact will be Gordon Howie (605)-381-3998

Question: Will you be providing Construction Staking for this project?

Answer: The construction staking for this project is provided through the City of Box Elder. **Our scope of work is provided below**. Any additional staking and/ or re-staking will be charged back to the awarded contractor.

Survey Tasks Paid for by City – This assumes 20-weeks (2025) and 24-weeks (2026) of construction start to finish.

- Administrative services electronic file preparation, scheduling, survey notes, etc.
- Set control as needed for each year's project.
- Stake removal limits.
- Stake manholes with double offsets.
- Stake grades for the new sanitary sewer main. Set double offsets for new sewer main at 50' intervals where new sewer is greater than 16' deep or over 15" in diameter.
- Stake steel casing pipe
- Stake water main lowerings.
- Stake culvert improvements.

Additional Information

Additional Information: A stockpile of a little over 3,000 yards is located on the north of Prairie Road. This stock pile shall be used as the first borrow material/ dry backfill material for the sanitary sewer project.

Contract Documents

Section "Bid Form for Construction Contract" Pages 2-7 **Revise Bid Schedules:**

Pages 2-7 shall be **removed and replaced** with pages 2R, 3R, 4R, 5R, 6R and 7R. The bid schedules were meant to line up with each individual segment listed in the plan sheets. They were instead divided up into 4 schedules that included all of the segments.

The revised sheets now divide each schedule into each segment one (1) through four (4). There are multiple item changes and quantity changes to the bid schedules. These changes were made to reflect the quantities listed on sheet 006 to 007 of the project plans.

Bid Schedule 1:

Cheyenne Boulevard and West Gate Road Trunk Sanitary Sewer Main Extension City Project Addendum #3



Strike through Item 103 "Construction Staking" this is contracted through the City of Box Elder.

Change Item 412 quantity from 270 to 281.

Change Item 413 quantity from 11 to 12

Change Item 702 quantity from 1.1 to 1.5.

Bid Schedule 2:

Strike through Item 103 "Construction Staking" this is contracted through the City of Box Elder.

Remove Item 504 and Subsection "Water".

Bid Schedule 3:

Strike through Item 103 "Construction Staking" this is contracted through the City of Box Elder.

Various items and quantities were changed throughout this Bid Schedule to better match Sheet 007 of the project plans.

Bid Schedule 4:

Strike through Item 103 "Construction Staking" this is contracted through the City of Box Elder.

Various items and quantities were changed throughout this Bid Schedule to better match Sheet 007 of the project plans.

Project Plan Documents

Replace Sheet 004 with 004R

Changes note "Sanitary Sewer Main" which changed SDR-26 pipe to SDR-35 pipe.

Delete second paragraph of "Sanitary Sewer Inspection": Provide the video inspection price within the linear foot per length of pipe.

Strike through "Storm Sewer Inspection" paragraph. Storm Sewer inspection will not be required for the culverts.

Replace Sheet 006 with 006R: Quantities of zero were removed from the list. Updated quantities match the Bid Schedule quantities.

Segment 1 Item 412 quantity changed from 270 to 281 Segment 1 Item 702 quantity changed from 1.1 to 1.5

Replace Sheet 007 with 007R: Quantities of zero were removed from the list. Updated quantities match the Bid Schedule quantities.

Segment 3 Item 202 quantity changed from 110 to 10



Segment 3 Added Item 611 "Connect to Existing Storm Sewer" with a quantity of 2.0.

END OF ADDENDUM #3

BID SCHEDULE 1

	BID SCHEDOLE I			Unit	
Line Item	Description of Item	Quantity	Unit	Cost	Total Cost
General					
100	Mobilization	1	LS		
101	Incidental Work	1	LS		
102	Material Testing	1	LS		
103	Construction Staking	1	LS	-0	-0
104	Erosion Control	1	LS		
105	Dewatering	1	LS		
106	Traffic Control	1	LS		
107	Railroad Insurance	1	LS		
Removals					
201	Remove Cap	1	EA		
Excavation					
300	Topsoil, Remove and Replace	4,607	CY		
301	Unclassified Excavation	28,961	CY		
304	Type III Foundation Material	100	Т		
305	Type IV Foundation Material	100	Т		
306	Bore Pit Excavation/ Replace	2,464	CY		
Sanitary Se	ewer		•		
400	8" PVC Sewer Main (SDR 35)	220	LF		
402	12" PVC Sewer Main (SDR 35)	20	LF		
403	15" PVC Sewer Main (SDR 35)	60	LF		
404	18" PVC Sewer Main (SDR 35)	1,160	LF		
405	24" PVC Sewer Main (SDR 35)	990	LF		
406	27" PVC Sewer Main (SDR 35)	856	LF		
407	8" Cap	11	EA		
409	12" Cap	1	EA		
410	15" Cap	3	EA		
411	18" Cap	1	EA		
	Bore and Jack 36" Steel Casing (0.531"				
412	Wall)	281	LF		
413	48" Manhole (0' - 8')	12	EA		
415	Extra Depth Manhole (48")	91	vft		
418	Connect to Existing	1	EA		
419	27" X 27" Tee	3	EA		
Water			ı	ı	
	Bore and Jack 24" Steel Casing (0.375"				
504	Wall)	104	LF		
Surfacing			I _		
700	Permanent Gravel Surfacing (6" Depth)	2,257	Т		

701	Geogrid Reinforcement	6,688	SY			
702	Seeding, Fertilizing, & Mulching	1.5	AC			
Erosion Control						
800	Silt Fence	1,481	LF			
803	Concrete Washout Area	1	EA			
Miscellane	Miscellaneous					
900	SDDOT Type 2 Fencing	3,316	LF			
901	Access Gates	5	EA			

Total Bid

	=	=	=	
		words		
		figures		

BID SCHEDULE 2

15	Description of the second	0	11	Unit	Tatal Cart		
Line Item	Description of Item	Quantity	Unit	Cost	Total Cost		
General		T					
100	Mobilization	1	LS				
101	Incidental Work	1	LS				
102	Material Testing	1	LS				
103	Construction Staking	1	<u>LS</u>	-0	-0		
104	Erosion Control	1	LS				
105	Dewatering	1	LS				
Removals							
201	Remove Cap	1	EA				
205	Remove Fence	85	LF				
Excavation							
300	Topsoil, Remove and Replace	8,057	CY				
302	Unclassified Excavation Borrow	20,467	CY				
304	Type III Foundation Material	100	Т				
305	Type IV Foundation Material	100	Т				
Sanitary Se	Sanitary Sewer						
400	8" PVC Sewer Main (SDR 35)	280	LF				
401	10" PVC Sewer Main (SDR 35)	40	LF				
402	12" PVC Sewer Main (SDR 35)	1,675	LF				
403	15" PVC Sewer Main (SDR 35)	1,094	LF				

404	18" PVC Sewer Main (SDR 35)	969	LF				
407	8" Cap	15	EA				
408	10" Cap	2	EA				
413	48" Manhole (0' - 8')	11	EA				
415	Extra Depth Manhole (48")	48.7	vft				
418	Connect to Existing	1	EA				
Drainage							
602	36" Storm Pipe	280	LF				
609	36" Flared End Section	4	EA				
Surfacing							
700	Permanent Gravel Surfacing (6" Depth)	1,741	Т				
701	Geogrid Reinforcement	5,157	SY				
702	Seeding, Fertilizing, & Mulching	4	AC				
Erosion Co	ontrol						
800	Silt Fence	1,155	LF				
801	Straw or compost wattles	921	LF				
802	Class III RipRap	39	Т				
804	Inlet/ Outlet Protection	4	EA				
Miscellane	Miscellaneous						
900	SDDOT Type 2 Fencing	7,250	LF				
901	Access Gates	2	EA				

Total	Bid
-------	-----

_	-	-	=	
		words		
		WUIUS		

figures

Bid Schedule 3

Line Item	Description of Item	Quantity	Unit	Unit Cost	Total Cost
General					
100	Mobilization	1	LS		
101	Incidental Work	1	LS		
102	Material Testing	1	LS		
103	Construction Staking	1	LS	0	0
104	Erosion Control	1	LS		
105	Dewatering	1	LS		
Removals					
201	Remove Cap	1	EA		
202	Remove Water Main	10	LF		
203	Abandon Water Main (in place)	2	EA		
205	Remove Fence	1,636	LF		
Excavation					

300	Topsoil, Remove and Replace	2,813	CY	
302	Unclassified Excavation Borrow	24,805	CY	
303	Type III Foundation Material	50	Т	
304	Type IV Foundation Material	50	Т	
Sanitary	Sewer			
400	8" PVC Sewer Main (SDR 35)	1,032	LF	
401	10" PVC Sewer Main (SDR 35)	689	LF	
407	8" Cap	6	EA	
413	48" Manhole (0' - 8')	5	EA	
415	Extra Depth Manhole (48")	24	vft	
416	Connect to Existing	1	EA	
Water				
500	16" PVC Water Main C900 DR-18	163	LF	
501	16" 11.25 Bends	4	EA	
502	Insulation Material	78	SF	
503	Connect to Existing Water Main	2	EA	
Drainage				
602	36" Storm Pipe	157	LF	
603	42" Storm Pipe	310	LF	
	Remove and Reset 36" Flared End			
606	Section	2	EA	
609	42" Flared End Section	4	EA	
611	Connect to Existing Storm Sewer	2	EA	
Surfacing	l			
	Permanent Gravel Surfacing (6"			
700	Depth)	737	Т	
701	Geogrid Reinforcement	2,185	SY	
702	Seeding, Fertizing, & Mulching	1.3	AC	
Erosion C	Control			
801	Straw or compost wattles	2,228	LF	
802	Class III RipRap	266	Т	
803	Concrete Washout Area	1	EA	
804	Inlet/ Outlet Protection	8	EA	
Miscellan	neous			
900	SDDOT Type 2 Fencing	3,292	LF	
901	Access Gates	3	EA	

Total Bid	
	words
	figures

Bid Schedule 4

Line Item	Description of Item	Quantity	Unit	Unit Cost	Total Cost
General					
100	Mobilization	1	LS		
101	Incidental Work	1	LS		
102	Material Testing	1	LS		
103	Construction Staking	1	LS	0	0
104	Erosion Control	1	LS		
105	Dewatering	1	LS		
Removals					
201	Remove Cap	1	EA		
204	Remove Storm Pipe	38	LF		
Excavation	1				
300	Topsoil, Remove and Replace	1,911	CY		
302	Unclassified Excavation Borrow	10,379	CY		
303	Type III Foundation Material	50	Т		
304	Type IV Foundation Material	50	Т		
Sanitary So	ewer	·			
400	8" PVC Sewer Main (SDR 35)	625	LF		
401	10" PVC Sewer Main (SDR 35)	577	LF		
407	8" Cap	5	EA		
413	48" Manhole (0' - 8')	4	EA		
415	Extra Depth Manhole (48")	16	vft		
Drainage					
603	42" Storm Pipe	240	LF		
609	42" Flared End Section	4	EA		
Surfacing		·			
700	Permanent Gravel Surfacing (6" Depth)	538	Т		
701	Geogrid Reinforcement	1,593	SY		
702	Seeding, Fertizing, & Mulching	0.9	AC		
Erosion Co	ontrol	·			
801	Straw or compost wattles	1,256	LF		
802	Class III RipRap	83	Т		
804	804 Inlet/ Outlet Protection		EA		
Miscellane	eous				
900	SDDOT Type 2 Fencing	2,545	LF		
901	Access Gates	3	EA		

901	Access Gates		3	ŁA			
	Total Bid	_		_	_	_	_
					words		
					figures		

This page is left intentionally blank				

The Contractor shall be responsible for either drying the wet but otherwise suitable material or hauling in drier material at no additional cost to the city. The use of imported backfill will only be authorized by the Engineer, if in the Engineers, of initinon, there is insufficient quantity of suitable backfill material, including material that can be dried.

Quantities of Type 3 and Type 4 foundation materials have been included in the estimate of quantities for use where unstable rench bottom is encounted. The use of Type 3 and Type 4 foundation materials and imported backfill shall be authorized by the Engineer prior to pleacement. Measurement and payment will be made in accordance with the standard specifications and shall include removal and sposal of any trench material the foundation material displaces.

Unclassified excavation, digouts consists of the removal and disposal of unstable material beld an existing or previously proof rolled and prepared subgrade surface on which surfacing material is to be placed. If soft spots in the subgrade are encountered, they shall be brought to the attention of the Engineer and the limits of digouts shall be determined prior to beginning the digout. The quantities bid for digouts have been assumed. The digouts shall be backfilled and compacted as per Section 12 of the Standard Specifications. This work requires pre-authorization by the Engineer to be eligible for payment.

The Engineer will designate if acceptable onsite excess material, aggregate or foundation material shall be used for backling the additional excavation. This work shall be paid for under the bid tiem "Unclassified Excavation, Digust": Payment for digouts shall include removal and disposal of the unstable material, and compaction of the backfill material. Payment for the backfill material other than acceptable onsite material shall be made under the appropriate bid item.

REMOVAL QUANTITIES

Estimated removal and abandonment quantities are provided in the plans. Quantities provded have been calculated based on the measurements of the removal area. Station and offset provided for general project location only. The Contractor shall field verify removal quantit they believe the information provided in the plans is in error. If an error is found, the Engineer be immediately notified.

Removal of driveway and/or alley gravel surfacing shall be considered incidental to the conract bid price for "Unclassified Excavation" and no separate payment will be made for removal of gravel surfacing.

Plans quantity will be the basis for payment for removal items unless changes are directed by the Engineer during construction. If changes are directed, the actual quantities removed will be measured by the Engineer and will be paid for at the unit prices under the respective remove bid items.

RIGHT-OF-WAY REMOVALS

Landscaping, and other associated items located within the Right-of-Way to be removed during construction shall be removed and salvaged to the landowner or as identified on the removal sheets. It is the Contractor's responsibility to contact and coordinate with the landowner the location of where these items are to be placed.

REMOVE FENCE

The Contractor shall remove and cispose of fence at locations called out in the plans. Any labor, material, or equipment necessary to remove the entire fence, including, but not limited to the gates, barbed wire, and posts shall be paid for per linear foot per the bid item "Remove babed Wire Fence". No separate payment will be made for gate removal.

INSTALL NEW FENCE

The Contractor shall install new barbed wire fencing at locations called out in the plans. Where new fence is installed its must be Type 2 Right-d-Way Fencing. Fencing and gates shall be installed according to fly of Box Elder Details. Any labor, material, or equipment necessary construct right-d-way fencing and gates shall be paid for per linear foot per the bid ittem Right-of Way Fence*. New fence gates shall be included in the total length of right-of-way fence No separate payment will be made for gates.

TRENCH CHECK DAM

Contractor shall place within the trench a compacted cohesive clay trench check dam. The trench check dam is used as a means to prevent the conveyance of water through the trench bedding. If the normal excavated matter is not suitable for construction of the trench check dam the law to Contractor shall obtain material from outside sources. Trench check dam shall be installed as per Standard Specifications, whether shown in the plans or not. Trench check dam installation and material shall be considered as incidental to the pipe installation.

STEEL PIPE CASING AND BORE

The Contractor shall bore and case pipe at the locations as shown on the plans in accordance with the detailed specifications. Other items required for the installation to be completed including casing chalks, spacers, and end seals shall be included and are considered indicated to the casing pipe. Payment shall be made at the contract unit bid price (if) of the appropriate diameter

SANITARY SEWER MANHOLES

Manhole details are shown on the drawings. Manholes shall be provided with a maximum of 8 inches of concrete adjusting rings. Manhole shall be benefit shall be Oring gasket joints. All manholes shall be oring gasket joints. All manholes shall be installed with bott down rins and lids. Bott down rins shall be installed in strated or in accordance with manufacturers' recommerdations. Frame anchor botts shall extend through the adouting rings into the cone section of the manhole shall extend through the

All labor and materials necessary to install and attach frame anchor bolts is considered incidental and shall be included in the bid item "standard manhole (appropriate size)" and paid for at the contract unit price per each.

SANITARY SEWER MAIN

Payment shall be made at the contract unit bid price for the size and depth of sanitary sewer provided in these drawings and in accordance with the Standard Specifications.

All sanitary sewer main shall conform to ASTM D3034, type PSM, SDR-35 per Section 9 of the Standard Specifications.

Clear accordance with the Standard Specifications, sanitary sever main shall be paid for to the center of each manhole. The Contractor is advised that the lengths of sever main shown in the profit view are machine. The contractor is advised that the lengths of sever main shown in the profit will be contracted to the contractor of t

TESTING OF SANITARY SEWER MAIN

Testing of the sanitary sewer main shall be per the standard specifications and is considered incidental to the line item.

CONNECT TO EXISTING SANITARY SEWER

It is the Contractor's responsibility to verify location of the existing sanitary sewer main at the proposed connection to existing locations. It is the Contractor's responsibility to inform the Engineer of location and elevation prior to construction of the sanitary sewer main and manholes required to connect to the existing sanitary sewer main all work necessary to determine the location of the existing sanitary sewer main shall be incidental to the contract bid item "Connect to Existing Sanitary Sewer Main".

All labor and materials necessary for connecting to existing sanitary sewer shall be included in the bid item "Connect to Existing sewer main" and paid for at the contract unit price per each (EA).

The Contractor shall have the new sanitary cowor main be video inepected in accordance with the Specifications following the installation. Copies of the video will be provided to the Englineer prior to the completion of the project.

CONTROLLED LOW STRENGTH BACKFILL MATERIAL

Under some circumstances, low strength backfill material may be required for support and other structural reasons. Under these situations, the low strength backfill material shall be paid for under the bid item Controlled Low Strength Backfill. Aquantity of Controlled Low Strength Material has been assumed for this bid item. The use of low strength backfill material shall be authorized by the Engineer prior to placement and shall comply with the Standard Specifications.

STORM SEWER PIPE CONNECTIONS

A concrete collar shall be required when a normal nale/female joint cannot be provided in a pipe A concrete coniar snain be required writen a normal nativerhale joint cannot be provided in a gre-segment. The concrete collar shall consist of a minimum 2 wide by 6" thick MS concrete collar around the outside of the connection. The concrete collar shall be reinforced with 6" x 6", W2.9 / W2.9 wire mesh. All costs for constructing the concrete collar including materials and labor shall be paid under the contract unit price per each for "Connect to Existing Storm".

Storm-sewers-less than 48-inches in diameter-shall be video inspected in accordance with the Standard-Specifications.—Copies of the video will be provided to the Engineer prior to the completion of the project

All labor and materials necessary for video inspecting the new sanitary sewer n foot (LF)

Riprap shall be installed at the various locations provided in the plans. Riprap shall conform to the SDDOT Standard Specifications for Roads and Bridges, 2015 Edition. Riprap quantities provided in the plans are based on an in-place density of 115 pounds per cubic foot.

Riprap will be paid for at the contract unit price per on for each class of riprap. The cost of riprap shall include all incidentals necessary to haul, excavate, and place. Drainage fabric shall be installed as indicated by the special detail and shallbe incidental to the cost of installing prap.

PERMANENT GRAVEL SURFACING

Gravel surfacing shall conform to Section 882 of the SDDOT Standard Specifications. Gravel surfacing can be either Aggregate Base Course, or Limestone Ledge Rock Base Course and shall meet the gradation requirements provided in Table 1.

Estimated quantities were based upon an assumed in place density of 150 LB/CU FT. Contractor shall not furnish base course prior to Engineer's subgrade approval.

GEOGRID

A quantity of geogrid subgrade reinforcement is included in the estimate of quantities for subgrade stabilization at possible unstable areas. Geogrid subgrade reinforcement shall be Mirafi BX/SI200, Tensus BX/SI200 are approved equals.

Geogrid subgrade reinforcement work and materals shall comply with the SDDOT Standard

This work item requires pre-authorization of the Engineer to be eligible for payment. Payment will be based on field measured quantities.

The Contractor shall salvage and place topsoil in all areas indicated in the plans to receive seed. The estimated amount of topsoil to cover the areas designated to receive seed, to a minimum depth of 6 inches, is given in the estimate of quantities accuming no chrinkago.

Any areas outside the work limits, disturbed by the Contractor, shall be restored to a like condition by the Contractor at no expense to the City.

Payment for Copsoil, Salvage & Place." Plans quantity will be at the contract unit price per cubic yard for "Topsoil, Salvage & Place." Plans quantity will be the basis of payment unless changes are ordered by the Engineer.

The Contractor will be required to pay for meter fees and installation onto a fire hydrant if the water is purchased from the City of Box Elder. Contact the Water Office at (605) 923-1404 to arrange for meter hook-ups to be added to fire hydrants and to obtain the current rate that will be charged.

GENERAL NOTES

004R

TDG

Towey Design Group, Inc. 475 Villa Drive, Suite #3 Box Elder, SD 57719 605.600.3758



SANITARY SEWER MAIN FROM CHEYENNE BLVD, TO WEST GATE RD BOX ELDER SOUTH DAKOTA

REVISIONS:	JOB NUMBER: 24-006	SHEET NAM
025.01.06 - 95% DESIGN	DESIGNED BY: MT/BK	G
025.02.13 • 100% DESIGN	DRAWN BY: PM	
025.03.12 • 100% DESIGN	SURVEYED BY: TDG	SHEET NO:
025.04.24 - ADDENDUM 3	SURVEY DATE:3-2024	(

Line Item	Description of Item	Quantity	Unit
General		1 4	011,1
100	Mobilization	1.0	LS
101	Incidental Work	1.0	LS
102	Material Testing	1.0	LS
104	Erosion Control	1.0	LS
105	Dewatering	1.0	LS
106	Traffic Control	1.0	LS
107	Railroad Insurance	1.0	LS
Removal	s		
201	Remove Cap	1.0	EA
Excavation	on .		
300	Topsoil, Remove and Replace	4,607.0	CY
301	Unclassified Excavation	28,961.0	CY
303	Type III Foundation Material	100.0	T
304	Type IV Foundation Material	100.0	т_
305	Bore Pit Excavation/ Replace	2,464.0	CY
Sanitary	Sewer		
400	8" PVC Sewer Main (SDR 35)	220.0	LF
402	12" PVC Sewer Main (SDR 35)	20.0	LF
403	15" PVC Sewer Main (SDR 35)	60.0	LF
404	18" PVC Sewer Main (SDR 35)	1,160.0	LF
405	24" PVC Sewer Main (SDR 35)	990.0	LF
406	27" PVC Sewer Main (SDR 35)	856.0	LF
407	8" Cap	11.0	EA
409	12" Cao	1.0	EA
410	15" Cao	3.0	EA
411	18" Cao	1.0	EA
412	Bore and Jack 36" Steel Casing (0.531" Wall)	281.0	LF
413	48" Manhole (0' - 8')	12.0	EA
415	Extra Depth Manhole (48")	90.2	vft
416	Connect to Existing	1.0	EA
417	27" X 27" Tee	3.0	EA
Water			
504	Bore and Jack 24" Steel Casing (0.375" Wall)	104.0	LF
Surfacing			
700	Permanent Gravel Surfacing (6" Depth)	2,257.0	T
701	Geogrid Reinforcement	6,687.3	SY
702	Seeding, Fertizing, & Mulching	1.503	AC
Erosion (
800	Silt Fence	1,481.0	LF
803	Concrete Washout Area	1.0	EA
Miscellar			
900	SDDOT Type 2 Fencing	3,316.0	LF
901	Access Gates	5.0	EA

Line Item	Description of Item	Quantity	Uni
General			
100	Mobilization	1.0	LS
101	Incidental Work	1.0	LS
102	Material Testing	1.0	LS
104	Erosion Control	1.0	LS
105	Dewatering	1.0	LS
Removals			
201	Remove Cap	1.0	EA
205	Remove Fence	85.0	LF
Excavatio	1		
300	Topsoil, Remove and Replace	8,057.0	CY
302	Unclassified Excavation Borrow	20,467.0	CY
303	Type III Foundation Material	100.0	T
304	Type IV Foundation Material	100.0	T
Sanitary S	ewer		
400	8" PVC Sewer Main (SER 35)	280.0	LF
401	10" PVC Sewer Main (SDR 35)	40.0	LF
402	12" PVC Sewer Main (SDR 35)	1,675.0	LF
403	15" PVC Sewer Main (SDR 35)	1,094.0	LF
404	18" PVC Sewer Main (SDR 35)	969.0	LF
407	8" Cap	15.0	EA
408	10" Cap	2.0	EA
413	48" Manhole (0' - 8')	11.0	EA
415	Extra Depth Manhole (48")	48.7	vft
416	Connect to Existing	1.0	EA
Drainage			
602	36" Storm Pipe	280.0	LF
608	36" Flared End Section	4.0	EA
Surfacing			
700	Permanent Gravel Surfacing (6" Depth)	1,740.6	Т
701	Geogrid Reinforcemen;	5,157.4	SY
702	Seeding, Fertizing, & Mulching	4.0	AC
Erosion Co	ontrol		
800	Silt Fence	1,155.0	LF
801	Straw or compost wattes	921.0	LF
802	Class III RipRap	38.6	T
804	Inlet/ Outlet Protection	4.0	ΕA
Miscellane	eous		
900	SDDOT Type 2 Fencing	7,250.0	LF
901	Access Gates	2.0	EA

TDG

Towey Design Group, Inc. 475 Villa Drive, Suite #3 Box Elder, SD 57719 605.600.3758



SAMITARY SEWER MAIN FROM CHEYENNE BLVD. TO WEST GATE RD BOX ELDER SOUTH DAKOTA

REVISIONS:	JOB NUMBER: 24-006
2025.01.06 - 95% DESIGN	DESIGNED BY: MT/BK
2025.02.13 - 100% DESIGN	DRAWN BY: PM
2025,03,12 - 100% DESIGN	SURVEYED BY: TDG
2025.04.24 - ADDENDUM 3	SURVEY DATE:3-2024

١	SHEET NAME:
	ESTIMATE OF QUANTITIES
7	SHEET NO: 006R

Line Item	Description of Item	Quantity	Unit
General		<u> </u>	
100	Mobilization	1.0	LS
101	Incidental Work	1.0	LS
102	Material Testing	1.0	LS
104	Erosion Control	1.0	LS
105	Dewatering	1.0	LS
Removals			
201	Remove Cap	1.0	EA
202	Remove Water Main	10.0	LF
203	Abandon Water Main (in place)	2.0	EA
205	Remove Fence	1,636.0	LF
Excavatio	n		
300	Topsoil, Remove and Replace	2,813.0	CY
302	Unclassified Excavation Borrow	24,805.0	CY
303	Type III Foundation Material	50.0	T
304	Type IV Foundation Material	50.0	T
Sanitary S			
400	8" PVC Sewer Main (SDR 35)	1,032.0	LF
401	10" PVC Sewer Main (SDR 35)	689.0	LF
407	8" Cap	6.0	EA
413	48" Manhole (0' - 8')	5.0	EA
415	Extra Depth Manhole (48")	23.5	vft
416	Connect to Existing	1.0	EA
Water			
500	16" PVC Water Main C900 DR-18	163.0	LF
501	16" 11.25 Bends	4.0	EA
502	Insulation Material	78.0	SF
503	Connect to Existing Water Main	2.0	EA
Drainage			
602	36" Storm Pipe	157.0	LF
603	42" Storm Pipe	310.0	LF
606	Remove and Reset 36" Flared Enc Section	2.0	EA
609	42" Flared End Section	4.0	EA
611	Connect tot Existing Storm Sewer	2.0	EA
Surfacing		1	
700	Permanent Gravel Surfacing (6" Depth)	737.3	T
701	Geogrid Reinforcement	2,184.6	SY
702	Seeding, Fertizing, & Mulching	1.3	AC
Erosion Co			
801	Straw or compost wattles	2,228.0	LF
802	Class III RipRap	266.9	T
803	Concrete Washout Area	1.0	EA
804	Inlet/ Outlet Protection	8.0	EA
Miscellan			
900	SDDOT Type 2 Fencing	3,292.0	LF
901	Access Gates	3.0	EA

Segment 4	1	
Line Item	Description of Item	Quantity
General		
100	Mobilization	1.0
101	Incidental Work	1.0
102	Material Testing	1.0
104	Erosion Control	1.0
105	Dewatering	1.0
Removals		
201	Remove Cap	1.0
204	Remove Storm Pipe	38.0
Excavatio	1	
300	Topsoil, Remove and Replace	1,911.0
302	Unclassified Excavation Borrow	10,379.0
303	Type III Foundation Material	50.0
304	Type IV Foundation Material	50.0
Sanitary S	ewer	
400	8" PVC Sewer Main (SDR 35)	625.0
401	10" PVC Sewer Main (SDR 35)	577.0
407	8" Cap	5.0
413	48" Manhole (0' - 8')	4.0
415	Extra Depth Manhole (48")	16.2
Drainage		
603	42" Storm Pipe	240.0
609	42" Flared End Section	4.0
Surfacing		
700	Permanent Gravel Surfacing (6" Depth)	537.7
701	Geogrid Reinforcement	1,593.2
702	Seeding, Fertizing, & Mulching	0.9
Erosion Co	ontrol	
801	Straw or compost wattles	1,256.0
802	Class III RipRap	83.0
804	Inlet/ Outlet Protection	4.0
Miscelland	eous	
900	SDDOT Type 2 Fencing	2,545.0
901	Access Gates	3.0

TDG

Towey Design Group, Inc. 475 Villa Drive, Suite #3 Box Elder, SD 57719 605.600.3758 PROPRIORIES

SANITARY SEWER MAIN FROM CHEYENNE BLVD, TO WEST GATE RD BOX ELDER SOUTH DAKOTA

REVISIONS:	JOB NUMBER: 24-006
2025.01.06 - 95% DESIGN	DESIGNED BY: MT/BK
2025.02.13 • 100% DESIGN	DRAWN BY: PM
2025.03.12 - 100% DESIGN	SURVEYED BY: TDG
2025.04.24 - ADDENDUM 3	SURVEY DATE:3-2024

)	SHEET NAME: ESTIMATE OF
1	QUANTITIES (2)
7	SHEET NO: 007R