Hastings Utilities

2025
Sanitary Sewer Improvement Area
SW-321

HASTINGS UTILITIES

General Legend

- Gas Main
- Gas Service
- Water Main
- Water Service
- Sanitary Sewer Main
- Sanitary Sewer Service
- Underground Telephone Cable
- Underground Telephone Service
- Underground Electrical Cable
- Underground Electrical Service
- Overhead Electrical Cable
- Overhead Electrical Service
- Underground Cable TV
- Underground Cable TV Service
- Existing Storm Sewer
- Existing Reducer
- New Reducer
- Existing Valve
- New Valve
- Stop Box
- Existing Fire Hydrant
- New Fire Hydrant
- Meter Pit
- Existing Manhole
- New Manhole
- Utility Pole
- Property Pin
- Poured Thrust Block
- Gas Meter
- Telephone Pedestal
- Tracer Wire Riser

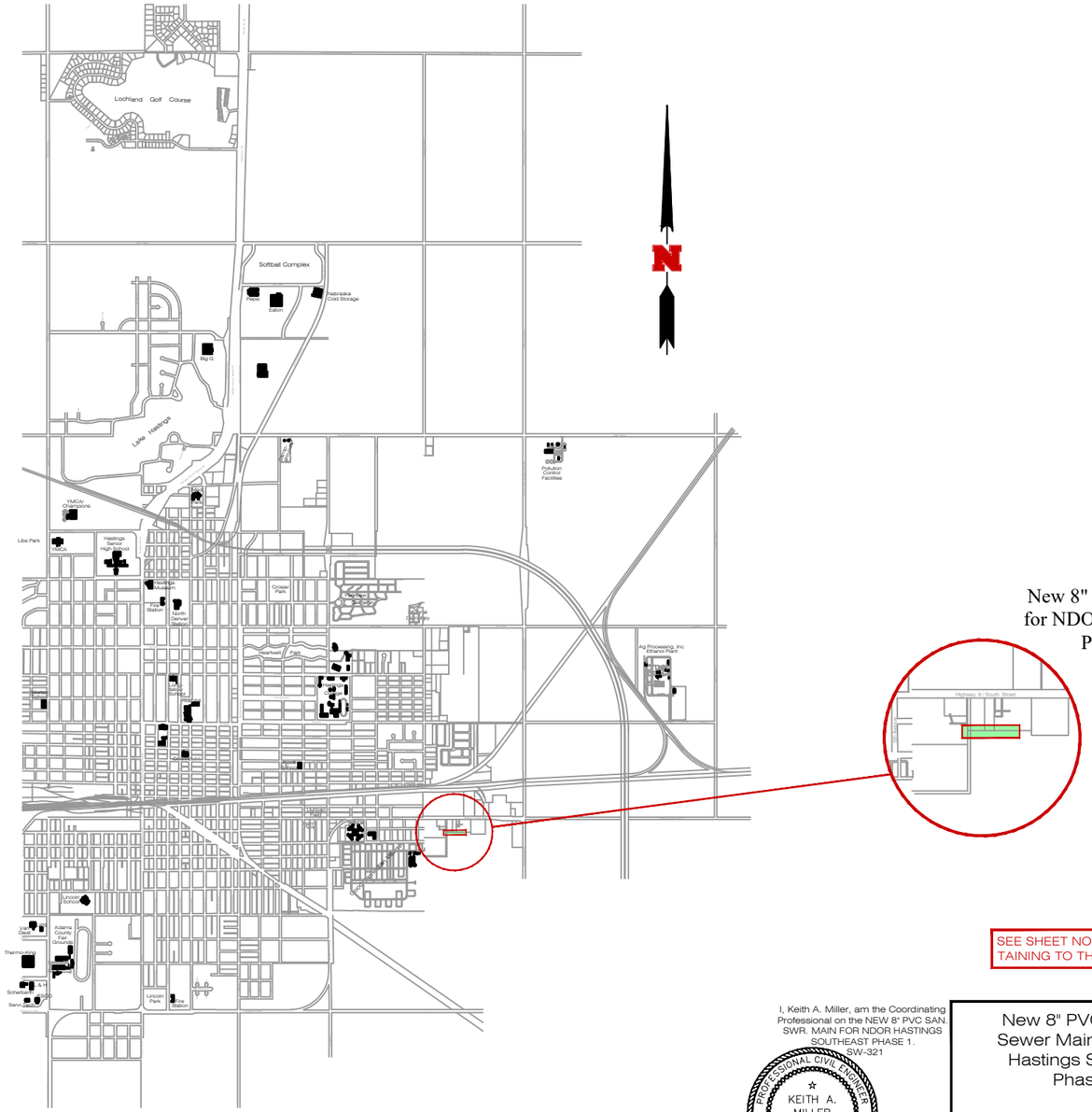
Deciduous Trees	Trunk Dia.	Evergreen Trees
	under 12"	
	12" to 24"	
	above 24"	

Sheet Index

Cover	Plan Cover Sheet
Quantities	Sheet Layout and Quantities
CSS1.1 to CSS1.2	Sanitary Sewer Main Improvements Plan and Profile Sheets
CSS4.1	Sanitary Sewer Service Plans

General Notes

1. The Contractor will be responsible for notifying the City Street Department Office at 461-2341 and the Communications Center at 461-2364 for all temporary street closings prior to construction.
2. The Contractor will be responsible for calling "Diggers Hotline" for locations of all underground facilities.
3. The Contractor will be responsible for replacement of gravel on driveways or streets in this area.
4. Service locations are approximations only and will be located in the field prior to any construction.
5. All barricades and barricading shall comply with the latest edition of Part VI of the manual on "Uniform Traffic Control Devices."



New 8" Sanitary Sewer Main for NDOT Hastings Southeast Project Phase 1. SR-089

SEE SHEET NO. 2 FOR THE GENERAL NOTES PERTAINING TO THE COMPLETION OF THIS PROJECT.

811 Know what's below. Call before you dig.

No.	Revision	By	Date	Ckd	App
Rev. 2	For BID Drawings	SS	1-12-26	KM	
Rev. 1	Original Drawings	SS	3-13-25	KM	

I, Keith A. Miller, am the Coordinating Professional on the NEW 8" PVC SAN. SWR. MAIN FOR NDOR HASTINGS SOUTHEAST PHASE 1. SW-321

PROFESSIONAL CIVIL ENGINEER KEITH A. MILLER E-18501 STATE OF NEBRASKA

New 8" PVC Sanitary Sewer Main for NDOT Hastings Southeast Phase 1.

HASTINGS UTILITIES

FOR BID

Dsn	K. Miller
Drwn	S. Struss
Date	1/12/2026
Supt.	B. Lubken
W.O. No.	SW-321
Ckd	
Ckd	
Sheet No.	Cover
No.	SR-089 (Paid by Hastings Utilities)

Hastings Utilities

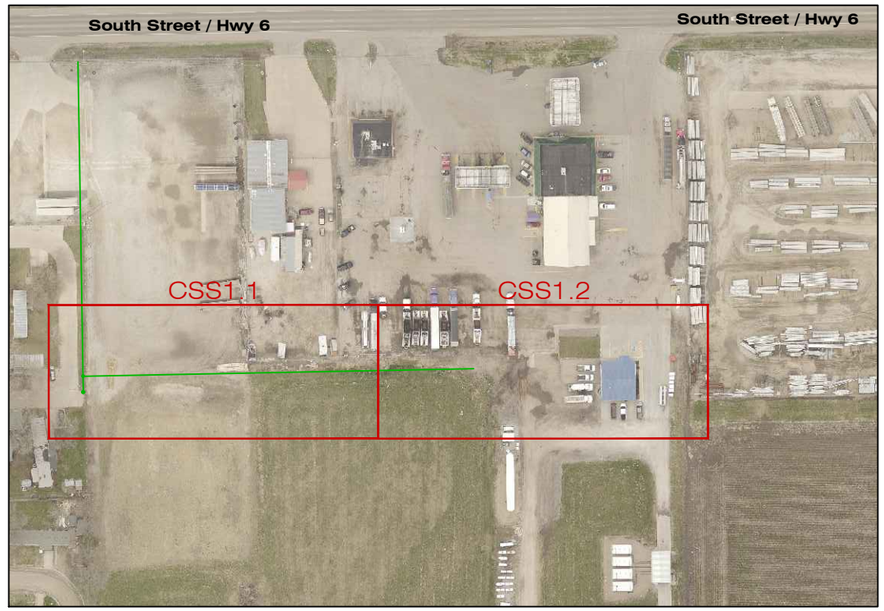
2025
Sanitary Sewer Improvement Area
SW-321

SEWER MAIN QUANTITIES		
8" PVC Sanitary Sewer Main	439.00	Lin. Ft.
60"Ø Manhole Cone	1.00	Each
48"Ø Manhole Cone	1.00	Each
Ring and Cover	2.00	Each
60"Ø Manhole Base	1.00	Each
48"Ø Manhole Base	1.00	Each
60"Ø Manhole Section	12.77	Vert. Ft.
48"Ø Manhole Section	7.95	Vert. Ft.
6'x6' Concrete Manhole Collar	2.00	Each
8" PVC Cap	1.00	Each

SEWER SERVICE QUANTITIES		
6" HDD PVC Service Line	228.00	Lin. Ft.
4" HDD PVC Service Line	354.00	Lin. Ft.
1 ½" PVC Discharge Line	140.00	Lin. Ft.
8"x 4" PVC Tee	2.00	Each

PAVING QUANTITIES		
Concrete/Ashaplt Paving Removal	8.00	Sq. Yd.
Concrete/Asphalt Paving Replacement	8.00	Sq. Yd.
Saw Cut	80.00	Lin. Ft.

N



GENERAL NOTES

CONTRACTOR SHALL MAINTAIN ACCESS TO THE HOMEOWNERS PROPERTY AT ALL TIMES

CONTRACTOR IS RESPONSIBLE FOR THE TRAFFIC CONTROL AND CLOSURE OF ANY LANES OF TRAFFIC AND IS SUBSIDIARY TO THE BID.

ANY TYPE OF POTHOLING OR EXCAVATING OF EXISTING UTILITIES NEEDED TO COMPLETE THIS PROJECT IS SUBSIDIARY TO THE BID.

CONTRACTOR TO COORDINATE WITH PROPERTY OWNER FOR INSTALLATION. CONSTRUCTION SHOULD BE COMPLETED IN A MANOR THAT WILL NOT IMPEDE BUSINESS OPERATIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF CONSTRUCTION SITE TO FINE GRADING FOR ~~RES~~EEDING. DAMAGED AREAS SHALL BE LEVELED OUT TO MATCH EXISTING GRADE CONDITIONS AND RAKED TO PROVIDE SUITABLE BEDDING FOR SEEDING. ALL UNSUITABLE MATERIAL SHALL BE REMOVED SUCH AS ROCK, CONCRETE, ETC. AND IS SUBSIDARY TO BID. ACTUAL SEEDING WILL BE DONE BY HASTINGS UTILITIES FORCES.

Hydraulic Capacity Table						
Sewer Pipe Location	Main Dia.	Q50% cfs	D.A. Acres	Rate gpAd	Design Flow cfs	Remarks
Sta. 1+00 to Sta. 5+31	8"	0.322	30	105,000	0.160	Min. 8"Ø Required to End of Watershed for this Lateral.

811 Know what's below. Call before you dig.

No.	Revision	By	Date	Ckd	App
Rev. 2	For BID Drawings	SS	1-12-26	KM	
Rev. 1	Original Drawings	SS	3-13-25	KM	

City Engineer

I, Keith A. Miller, am the Coordinating Professional on the NEW 8" PVC SAN. SWR. MAIN FOR NDOR HASTINGS SOUTHEAST PHASE 1. SW-321

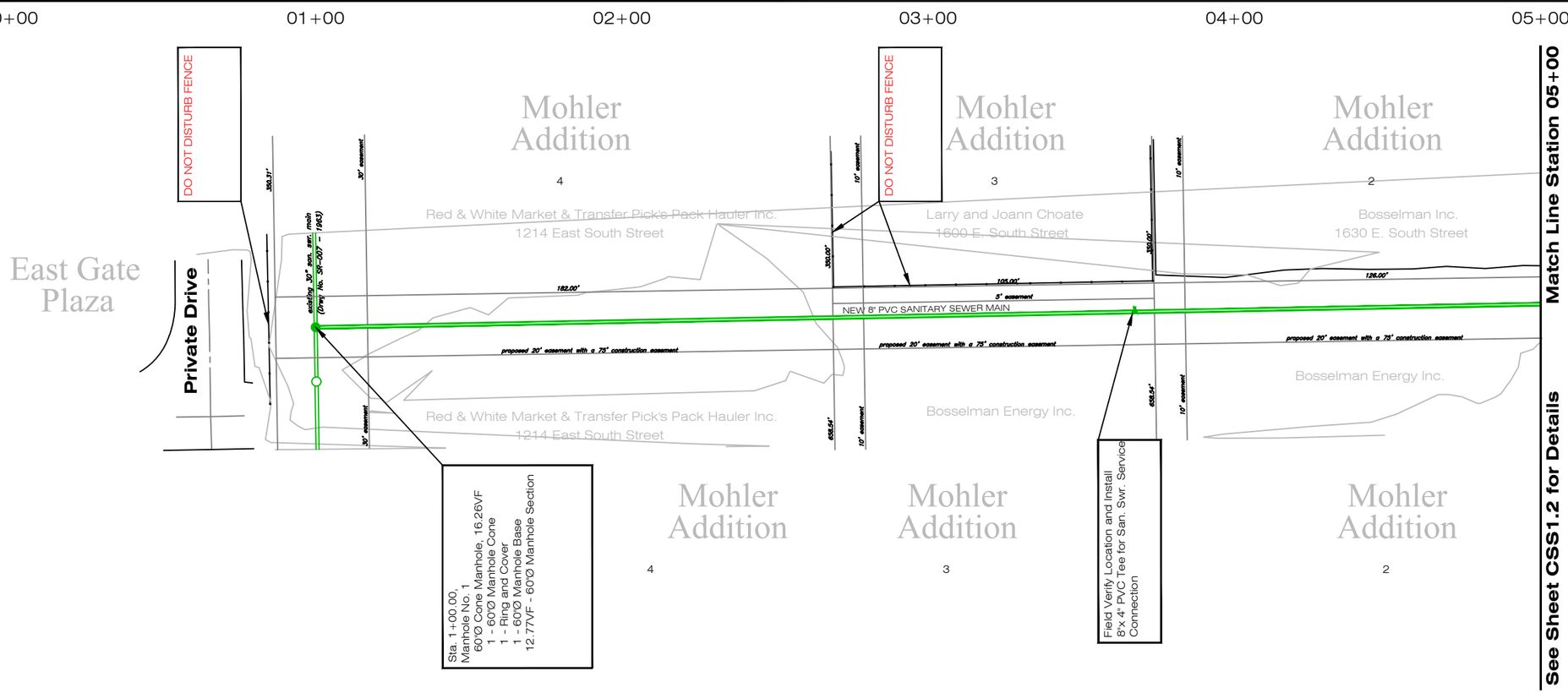
PROFESSIONAL CIVIL ENGINEER KEITH A. MILLER 1850 STATE OF NEBRASKA

New 8" PVC Sanitary Sewer Main for NDOT Hastings Southeast Phase 1.

HASTINGS UTILITIES

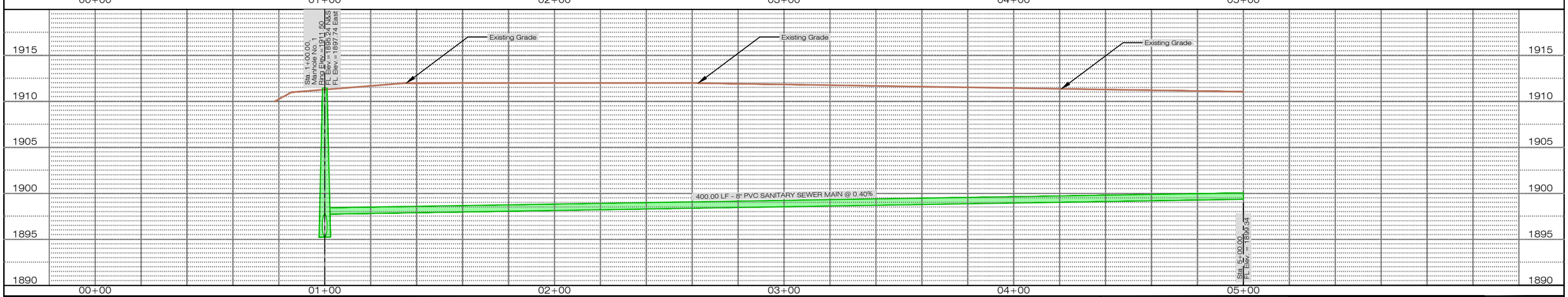
FOR BID

Dsn	K. Miller
Drwn	S. Struss
Date	1/12/2026
Supt.	B. Lubken
W.O. No.	SW-321
Ckd	
Ckd	
Sheet No.	Quantities
No.	SR-089 (Paid by Hastings Utilities)



NORTH
Scale: 1" = 20'
(Reduced Scale: 1" = 30')

20' 0' 20' 40' 60'



No.	Revision	By	Date	Ckd	App
Rev. 2	For BID Drawings	SS	1-12-26	KM	
Rev. 1	Original Drawings	SS	3-13-25	KM	

811 Know what's below. Call before you dig.

SEWER MAIN QUANTITIES

8" PVC Sanitary Sewer Main	400.00	Lin. Ft.
60'Ø Manhole Cone	1.00	Each
Ring and Cover	1.00	Each
60'Ø Manhole Base	1.00	Each
60'Ø Manhole Section	12.77	Vert. Ft.
6'x 6' Concrete Manhole Collar	1.00	Each
8'x 4" PVC Tee	1.00	Each

I, Keith A. Miller, am the Coordinating Professional on the NEW 8" PVC SAN. SWR. MAIN FOR NDOR HASTINGS SOUTHEAST PHASE 1. SW-321

PROFESSIONAL CIVIL ENGINEER
KEITH A. MILLER
E-8554
STATE OF NEBRASKA

New 8" PVC Sanitary Sewer Main for NDOT Hastings Southeast Phase 1.

HASTINGS UTILITIES

FOR BID

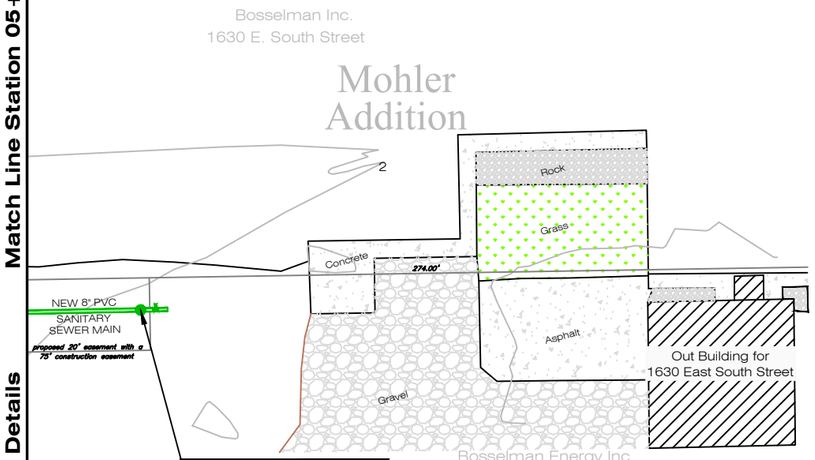
Dsn	K. Miller
Drwn	S. Struss
Date	1/12/2026
Supt.	B. Lubken
W.O. No.	SW-321
Ckd	
Ckd	
Sheet No.	CSS1.1
No.	SR-089

(Paid by Hastings Utilities)

05+00 06+00 07+00 08+00

Match Line Station 05+00

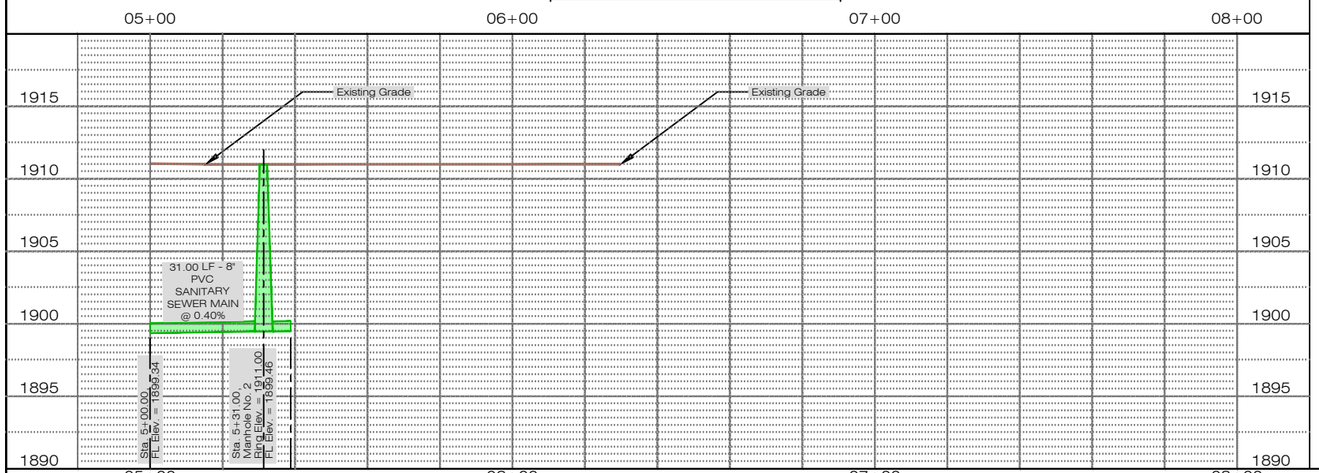
See Sheet CSS1.1 for Details



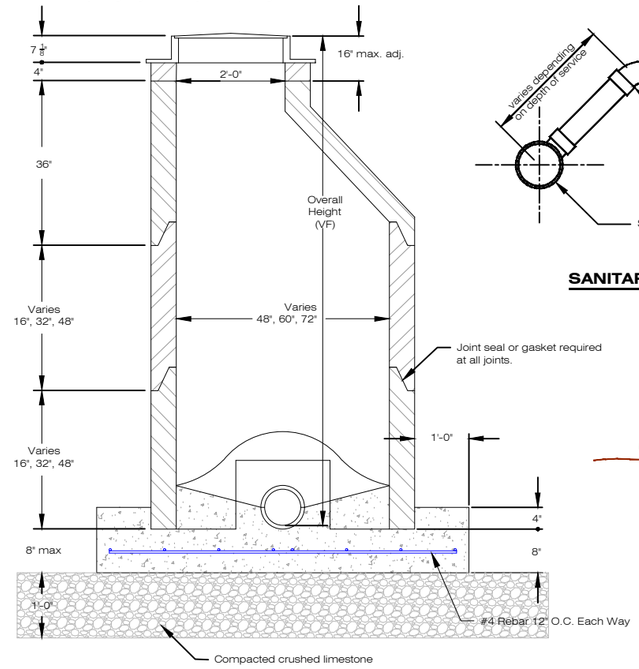
Sta. 5+31.00,
Manhole No. 2
48"Ø Cone Manhole, 11.54VF
1 - 48"Ø Manhole Cone
1 - Ring and Cover
1 - 48"Ø Manhole Base
7.95VF - 48"Ø Manhole Section
Extend 8" San. Swr. Main 8' from
Center of Manhole and Install
8" PVC Cap. In Stub Out Install
8"x 4" PVC Tee for Sewer Service
Connection to the East

NORTH
Scale: 1" = 20'
(Reduced Scale: 1" = 30')

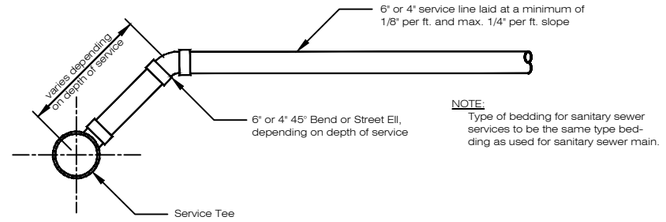
20' 0' 20' 40' 60'



NOTE
-Manhole sections includes manhole barrel and adjusting rings.
-Block bottom section for placement.
-Adjusting rings used only under paving.

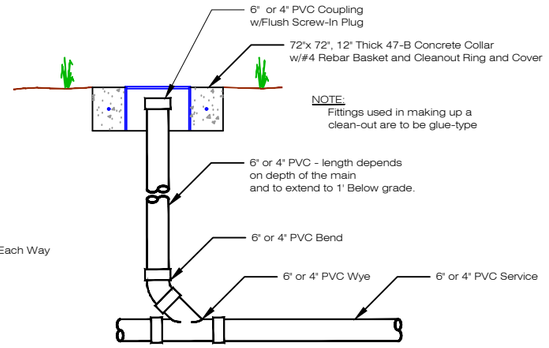


STANDARD MANHOLE DETAIL



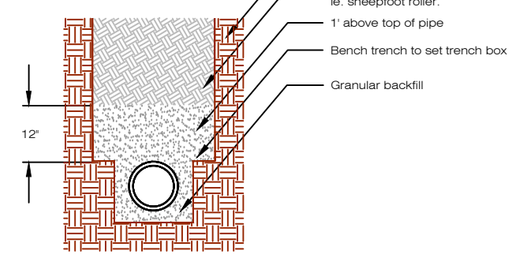
NOTE:
Type of bedding for sanitary sewer services to be the same type bedding as used for sanitary sewer main.

SANITARY SEWER SERVICE DETAIL

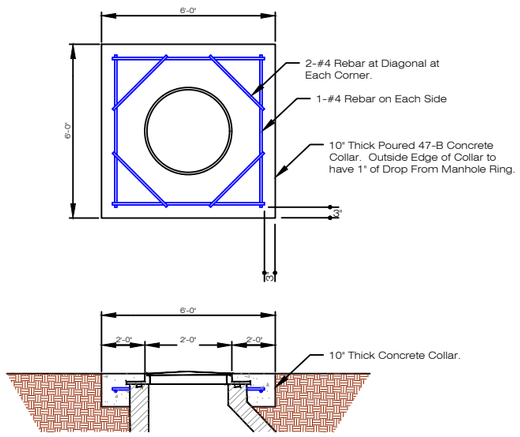


SANITARY SEWER CLEAN OUT ASSEMBLY

NOTE:
Construction method shall insure all voids are backfilled after removal of trench box.



TYPE III BEDDING PVC & VCP SEWER



CONCRETE MANHOLE COLLAR

Know what's below. Call before you dig.

No.	Revision	By	Date	Ckd	App
Rev. 2	For BID Drawings	SS	1-12-26	KM	
Rev. 1	Original Drawings	SS	3-13-25	KM	

SEWER MAIN QUANTITIES

8" PVC Sanitary Sewer Main	39.00	Lin. Ft.
48"Ø Manhole Cone	1.00	Each
Ring and Cover	1.00	Each
48"Ø Manhole Base	1.00	Each
48"Ø Manhole Section	7.95	Vert. Ft.
6'x 6' Concrete Manhole Collar	1.00	Each
8" PVC Cap	1.00	Each
8"x 4" PVC Tee	1.00	Each

I, Keith A. Miller, am the Coordinating Professional on the NEW 8" PVC SAN. SWR. MAIN FOR NDOR HASTINGS SOUTHEAST PHASE 1. SW-321

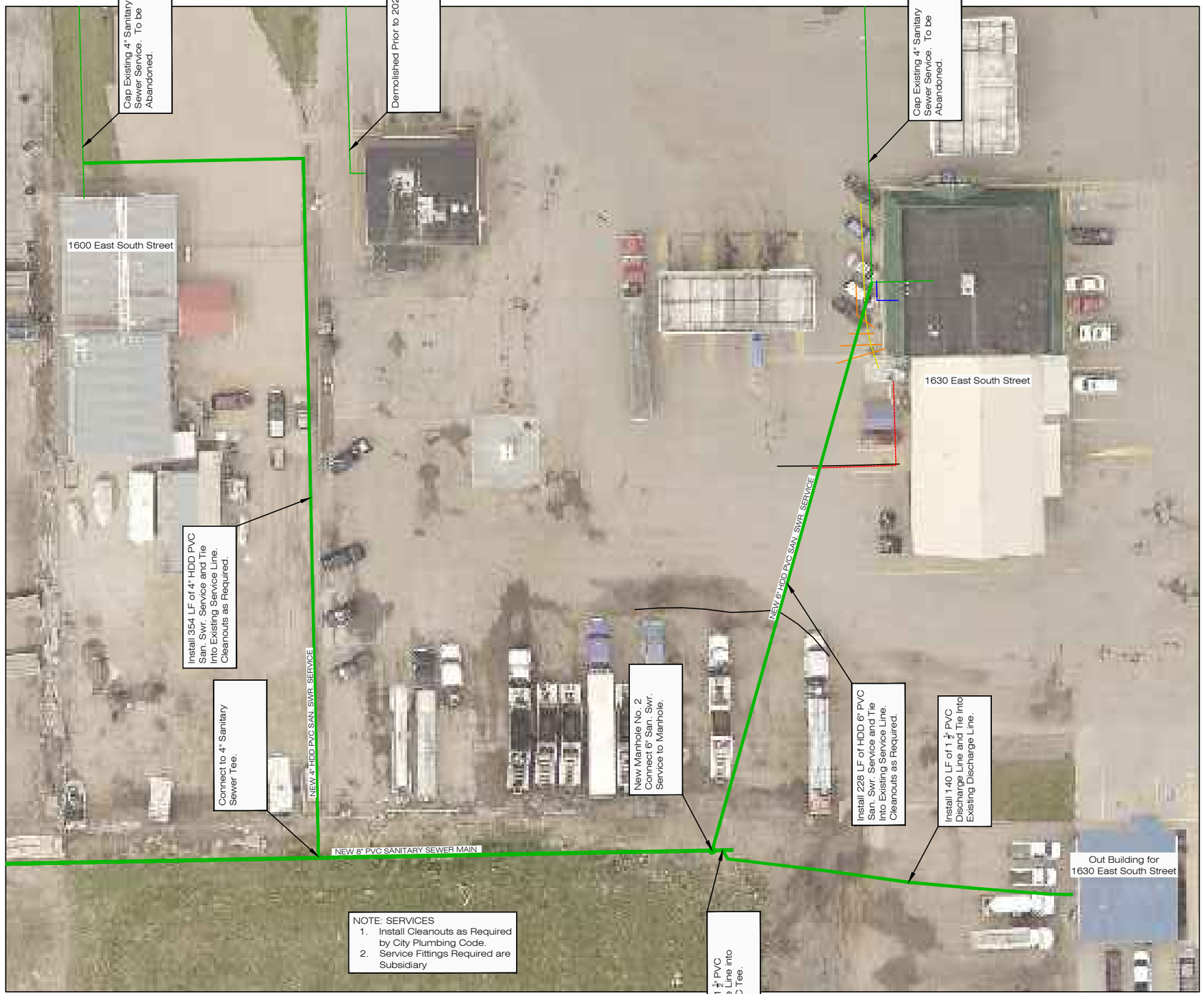
PROFESSIONAL CIVIL ENGINEER
KEITH A. MILLER
STATE OF NEBRASKA

New 8" PVC Sanitary Sewer Main for NDOT Hastings Southeast Phase 1.

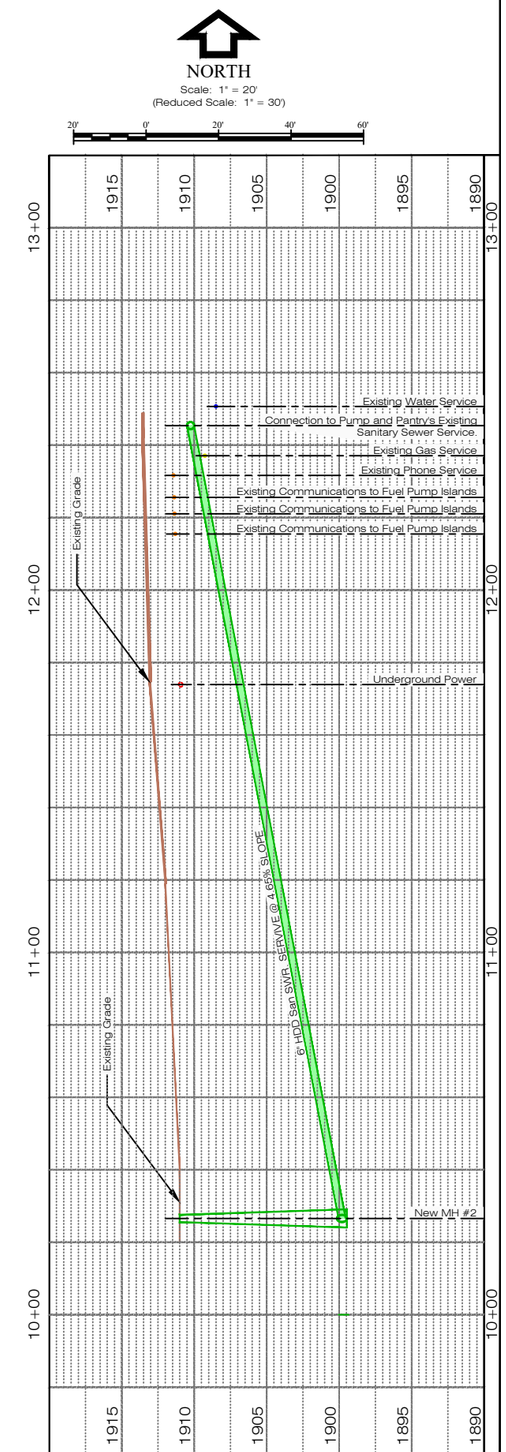
HASTINGS UTILITIES

FOR BID

Dsn	K. Miller
Drwn	S. Struss
Date	1/12/2026
Supt.	B. Lubken
W.O. No.	SW-321
Ckd	
Ckd	
Sheet No.	CSS1.2
No.	SR-089 (Paid by Hastings Utilities)



NOTE: SERVICES
1. Install Cleanouts as Required by City Plumbing Code.
2. Service Fittings Required are Subsidiary



SEWER SERVICE QUANTITIES		
6" HDD PVC Service Line	228.00	Lin. Ft.
4" HDD PVC Service Line	354.00	Lin. Ft.
1 1/2" PVC Discharge Line	140.00	Lin. Ft.

PAVING QUANTITIES		
Concrete/Ashaplt Paving Removal	8.00	Sq. Yd.
Concrete/Asphalt Paving Replacement	8.00	Sq. Yd.
Saw Cut	80.00	Lin. Ft.

811 Know what's below. Call before you dig.

No.	Revision	By	Date	Ckd	App
Rev. 2	For BID Drawings	SS	1-12-26	KM	
Rev. 1	Original Drawings	SS	3-13-25	KM	

I, Keith A. Miller, am the Coordinating Professional on the NEW 8" PVC SAN. SWR. MAIN FOR NDOR HASTINGS SOUTHEAST PHASE 1. SW-321

PROFESSIONAL CIVIL ENGINEER KEITH A. MILLER 1850 STATE OF NEBRASKA

New 8" PVC Sanitary Sewer Main for NDOT Hastings Southeast Phase 1.

HASTINGS UTILITIES

FOR BID

Dsn	K. Miller
Drwn	S. Struss
Date	1/12/2026
Supt.	B. Lubken
W.O. No.	SW-321
Ckd	
Ckd	
Sheet No.	CSS4.1
No.	SR-089 (Paid by Hastings Utilities)