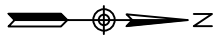


COMMUNITY OF MILNER
SEWER SYSTEM RELINING PROJECT
FINAL ENGINEERING DRAWINGS
OCTOBER 2023



KEY MAP
1" = 200'



NOTE: THE QUANTITIES BELOW ARE AN ESTIMATE. ACTUAL QUANTITIES SHALL BE MEASURED BASED ON FIELD CONDITIONS.

QUANTITY SUMMARY TABLE			
ITEM	MEASURE	QUANTITY	
MANHOLE	EA	24	
TOTAL MANHOLE DEPTH	LF	193.51'	AVERAGE MANHOLE DEPTH 8.06'
LENGTH OF CIPP	LF	6955.89'	
LENGTH OF OPEN CUT		0.00'	

REV. No:	DATE:	BY:	REVISION DESCRIPTION:

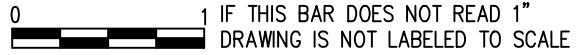


AquaWorks DBO
DESIGN BUILD OPERATE
3252 WILLIAMS STREET
DENVER, CO 80205
(303) 477-5915

COMMUNITY OF MILNER
SEWER LINE RELINING
PROJECT



PROJECT: COMMUNITY OF MILNER SEWER SYSTEM RELINING PROJECT
PROJECT NUMBER: 7829
CLIENT: COMMUNITY OF MILNER, ROUTT COUNTY
LOCATION: MILNER, ROUTT COUNTY, COLORADO
DESIGNED BY: MICHAEL CROSE, P.E.
CHECKED BY: ADAM SOMMERS, P.E.
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DRAWING SIZE: 22" X 34"



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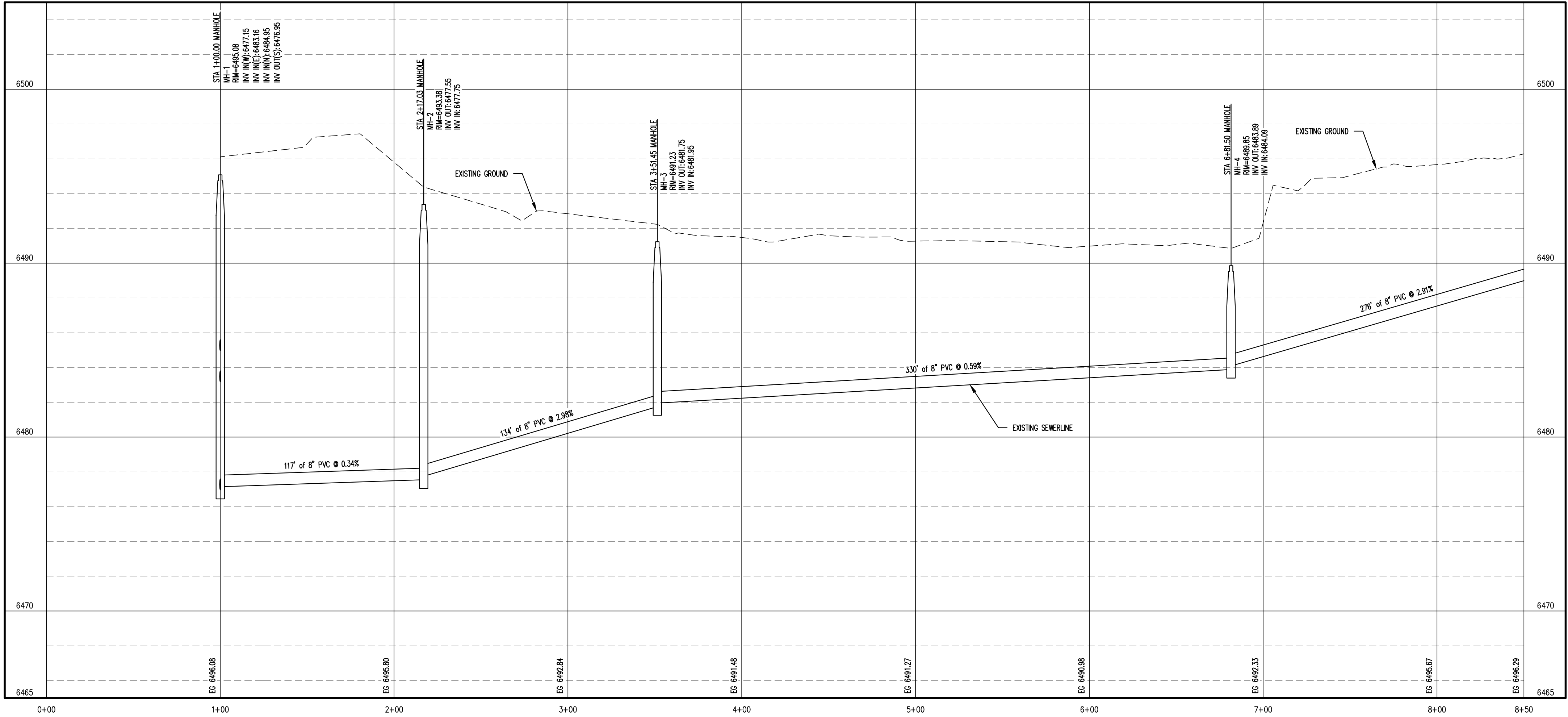
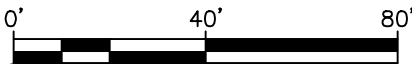
KEY MAP

SCALE
1" = 200'

SHEET NUMBER:
G-02



SANITARY SEWER PLAN
H: 1" = 40'



SANITARY SEWER PROFILE
V: 1" = 4'

REV. No.	DATE:	BY:	REVISION DESCRIPTION:



COMMUNITY OF MILNER
SEWER LINE RELINING
PROJECT



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PROJECT NUMBER: 7829
CLIENT: COMMUNITY OF MILNER, ROUTT COUNTY
LOCATION: MILNER, ROUTT COUNTY, COLORADO
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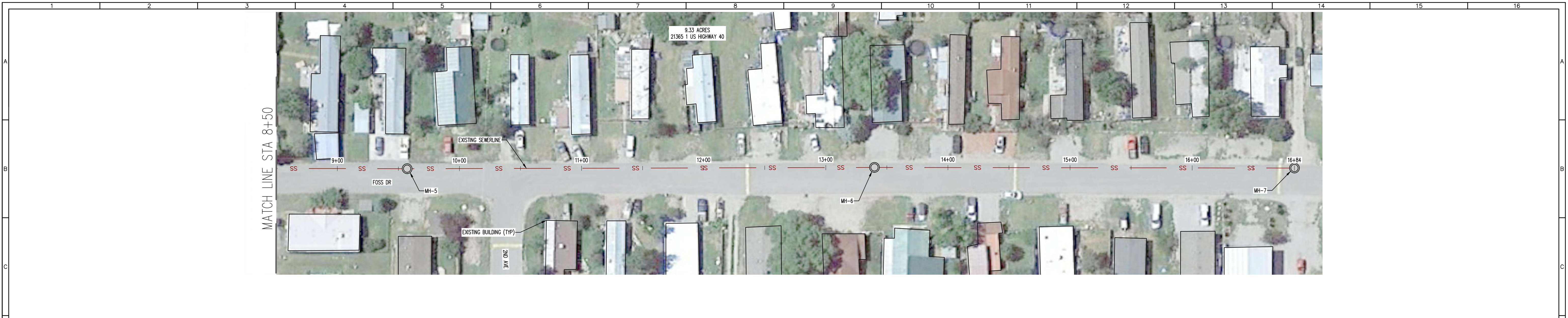
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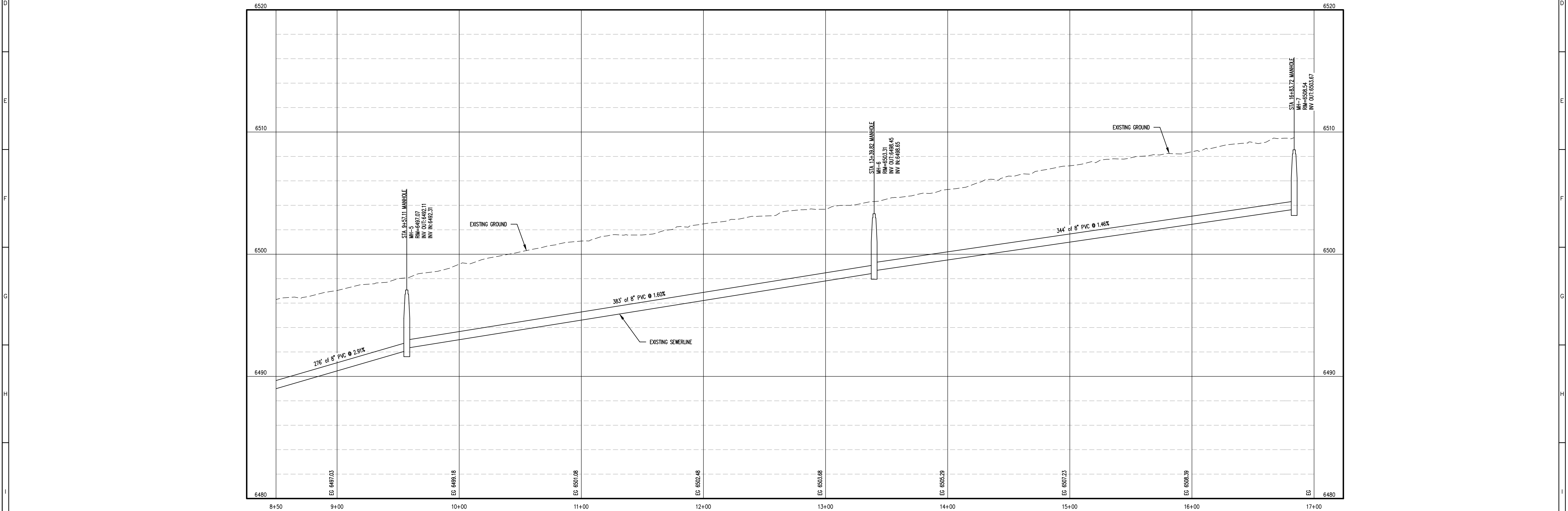
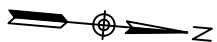
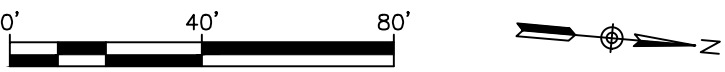
FOSS DR SEWERLINE
STA 1+00 TO STA 8+50

SCALE
H: 1" = 40'
V: 1" = 4'

SHEET NUMBER:
C-03



SANITARY SEWER PLAN
H: 1" = 40'

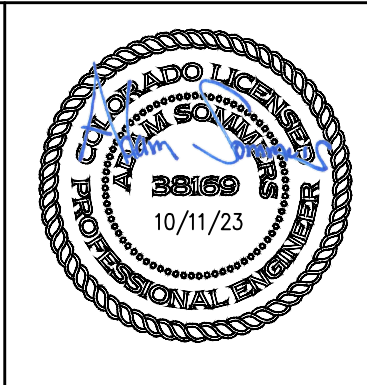


SANITARY SEWER PROFILE
V: 1" = 4'

REV. No.	DATE:	BY:	REVISION DESCRIPTION:

**AquaWorks DBO**
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3252 WILLIAMS STREET
DENVER, CO 80205
(303) 477-5915

COMMUNITY OF MILNER
SEWER LINE RELINING
PROJECT



PROJECT: COMMUNITY OF MILNER SEWER SYSTEM RELINING PROJECT
PROJECT NUMBER: 7829
CLIENT: COMMUNITY OF MILNER, ROUTT COUNTY
LOCATION: MILNER, ROUTT COUNTY, COLORADO
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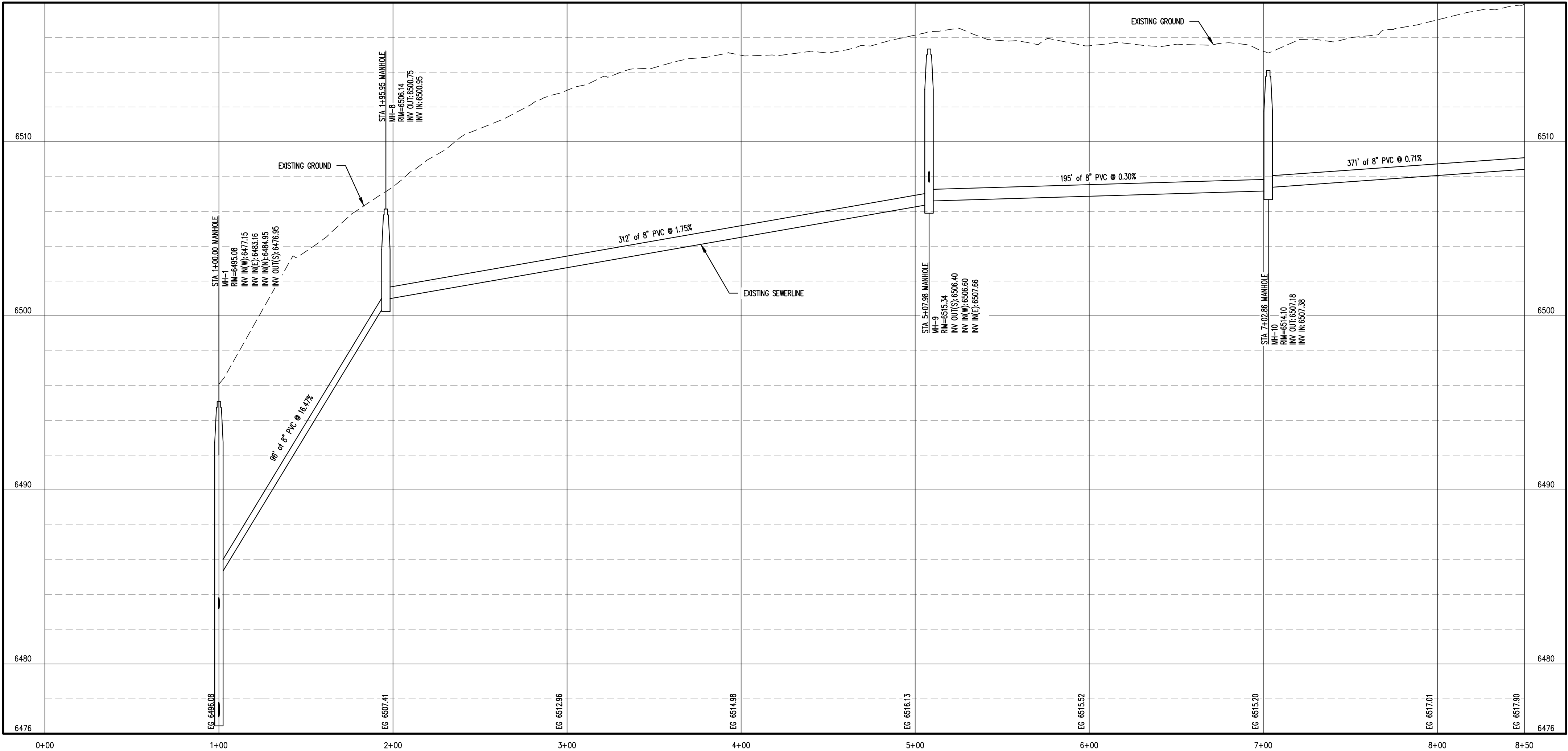
FOSS DR SEWERLINE
STA 8+50 TO THE END

SCALE
H: 1" = 40'
V: 1" = 4'

SHEET NUMBER:
C-04



SANITARY SEWER PLAN
H: 1" = 40'



SANITARY SEWER PROFILE
V: 1" = 4'

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COMMUNITY OF MILNER
SEWER LINE RELINING
PROJECT



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PROJECT NUMBER: 7829
CLIENT: COMMUNITY OF MILNER, ROUTT COUNTY
LOCATION: MILNER, ROUTT COUNTY, COLORADO
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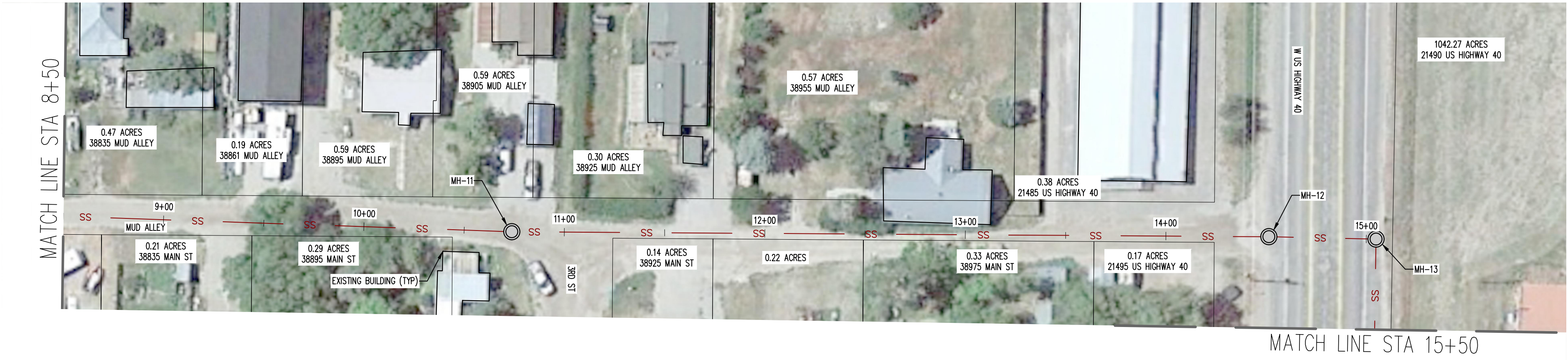
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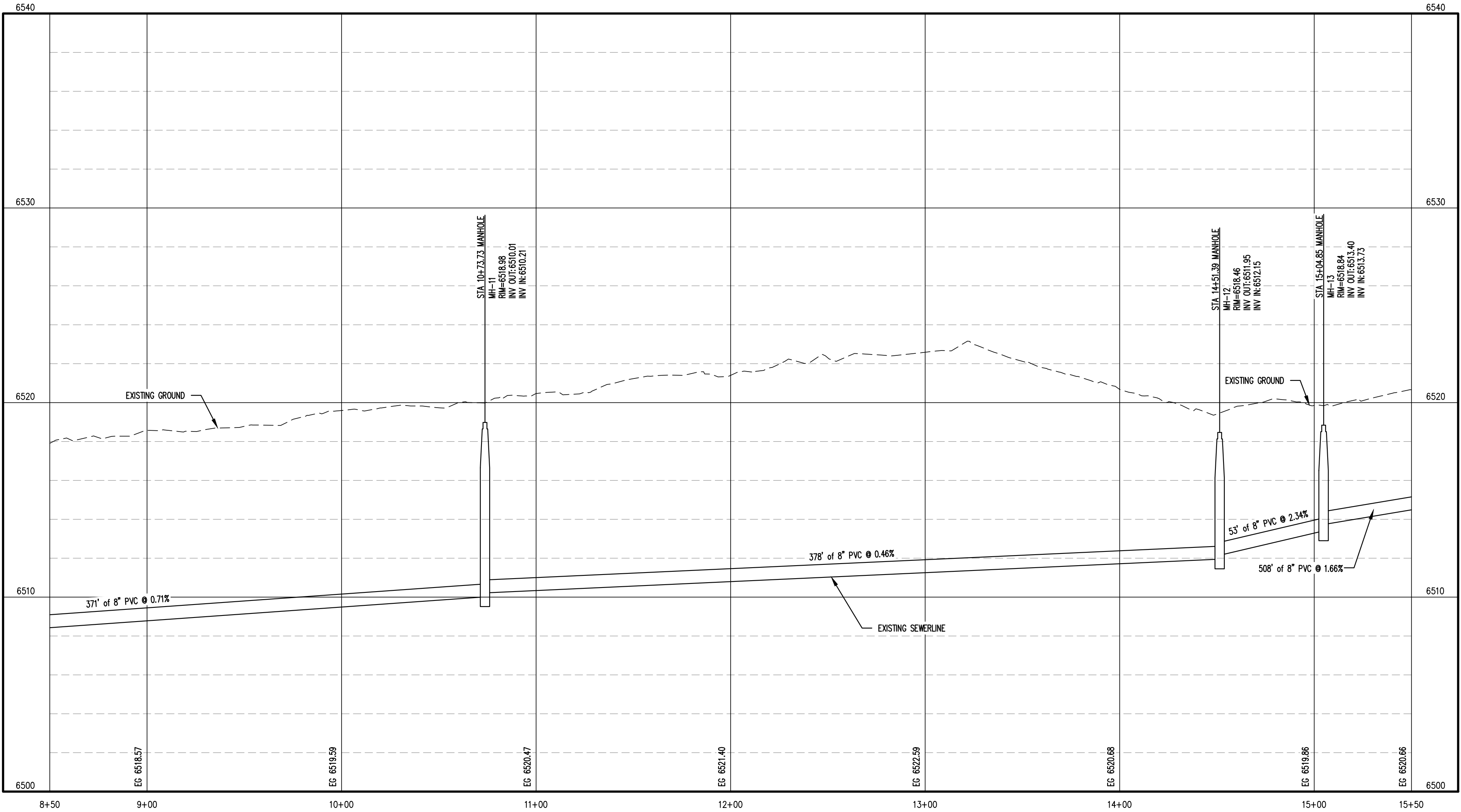
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MAIN ST SEWERLINE
STA 1+00 TO STA 8+50

SCALE
H: 1" = 40'
V: 1" = 4'
SHEET NUMBER:
C-05



SANITARY SEWER PLAN
H: 1" = 40'



SANITARY SEWER PROFILE
V: 1" = 4'

REV. No.	DATE:	BY:	REVISION DESCRIPTION:



COMMUNITY OF MILNER
SEWER LINE RELINING
PROJECT



PROJECT: COMMUNITY OF MILNER SEWER SYSTEM RELINING PROJECT
PROJECT NUMBER: 7829
CLIENT: COMMUNITY OF MILNER, ROUTT COUNTY
LOCATION: MILNER, ROUTT COUNTY, COLORADO
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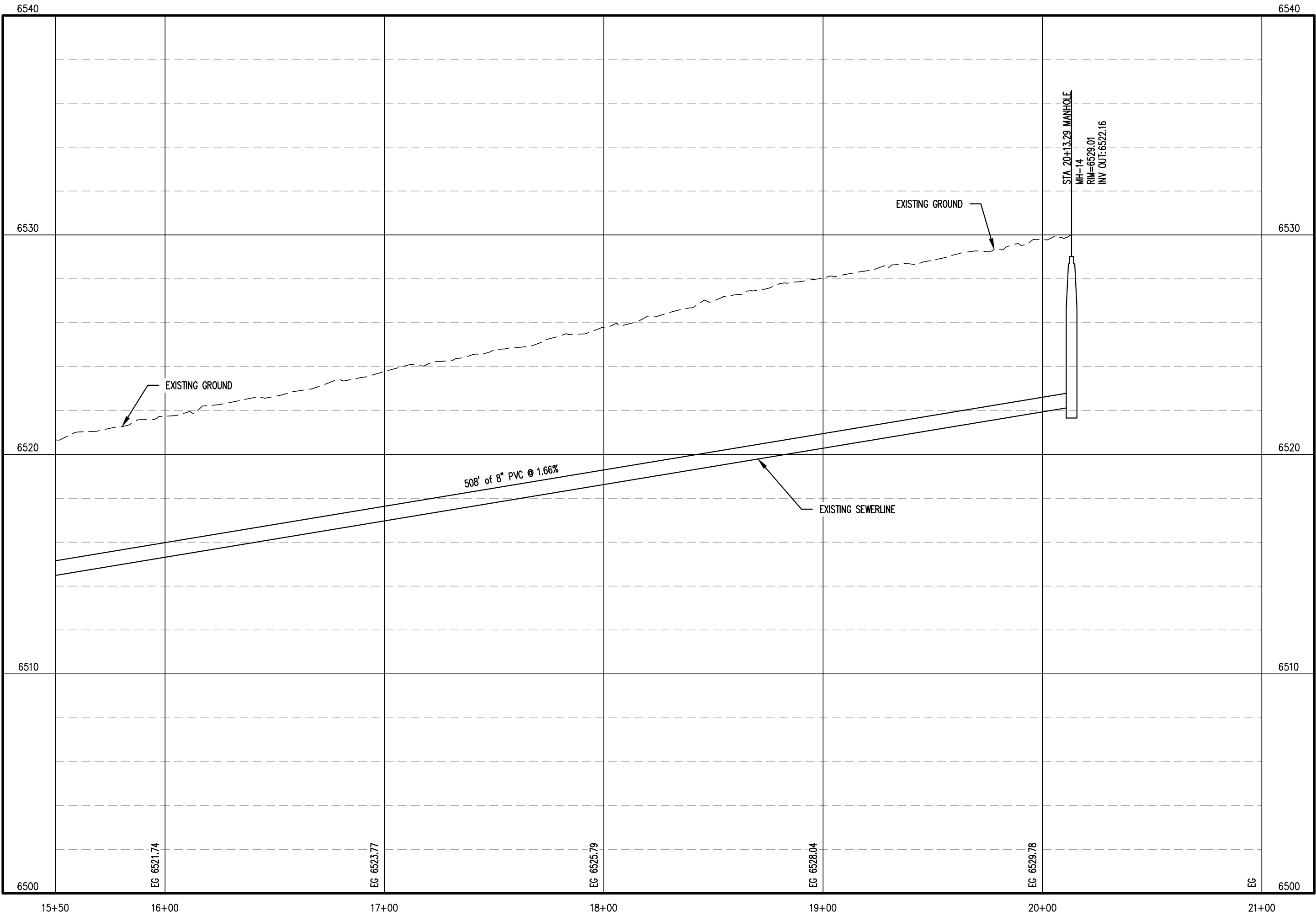
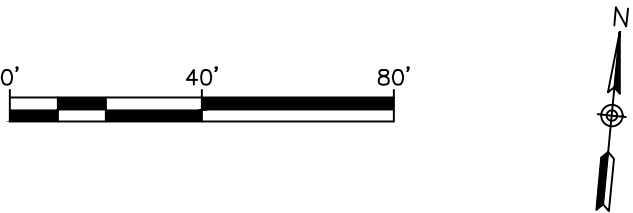
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MUD ALLEY SEWERLINE
STA 8+50 TO STA 15+50

SCALE
H: 1" = 40'
V: 1" = 4'
SHEET NUMBER:
C-06



SANITARY SEWER PLAN
H: 1" = 40'



SANITARY SEWER PROFILE
V: 1" = 4'

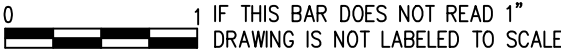
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COMMUNITY OF MILNER
SEWER LINE RELINING
PROJECT



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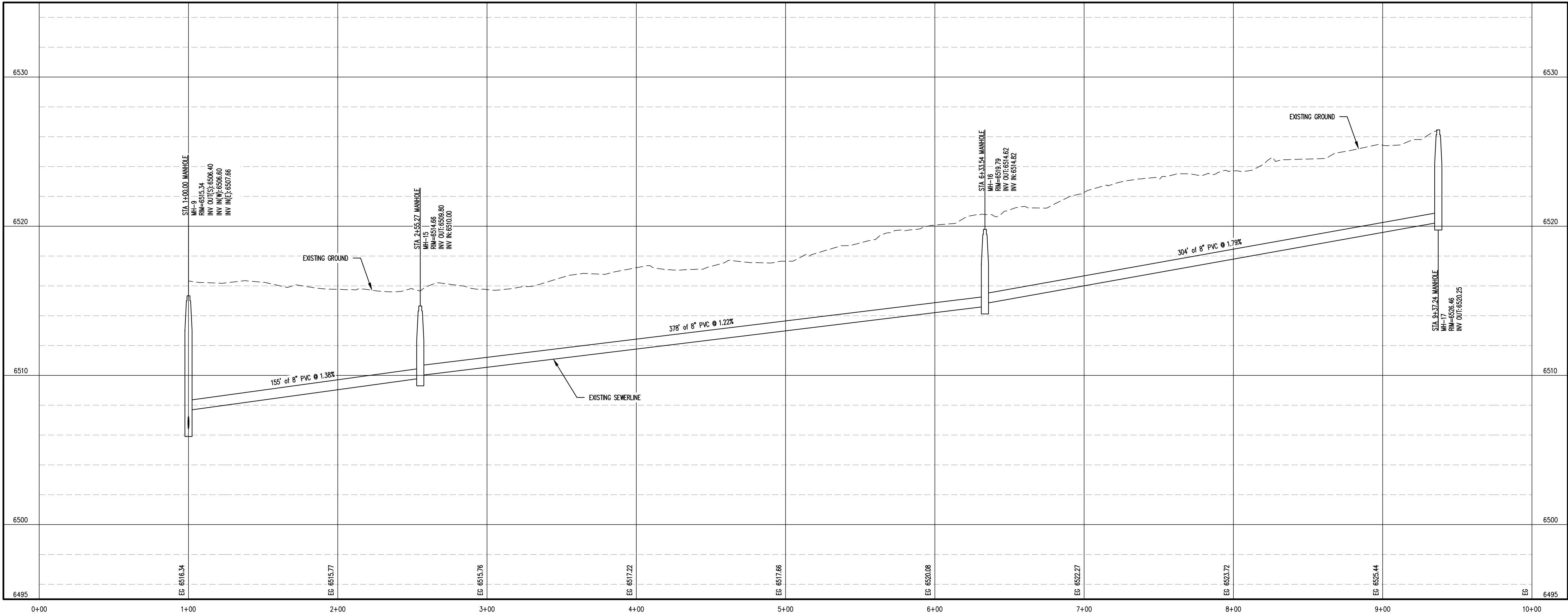
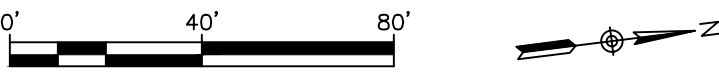
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W US HIGHWAY 40 SEWERLINE
STA 15+50 TO THE END

SCALE
H: 1" = 40'
V: 1" = 4'
SHEET NUMBER:
C-07



SANITARY SEWER PLAN
H: 1" = 40'



SANITARY SEWER PROFILE
V: 1" = 4'

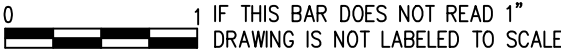
REV. No.	DATE:	BY:	REVISION DESCRIPTION:



COMMUNITY OF MILNER
SEWER LINE RELINING
PROJECT



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PROJECT NUMBER: 7829
CLIENT: COMMUNITY OF MILNER, ROUTT COUNTY
LOCATION: MILNER, ROUTT COUNTY, COLORADO
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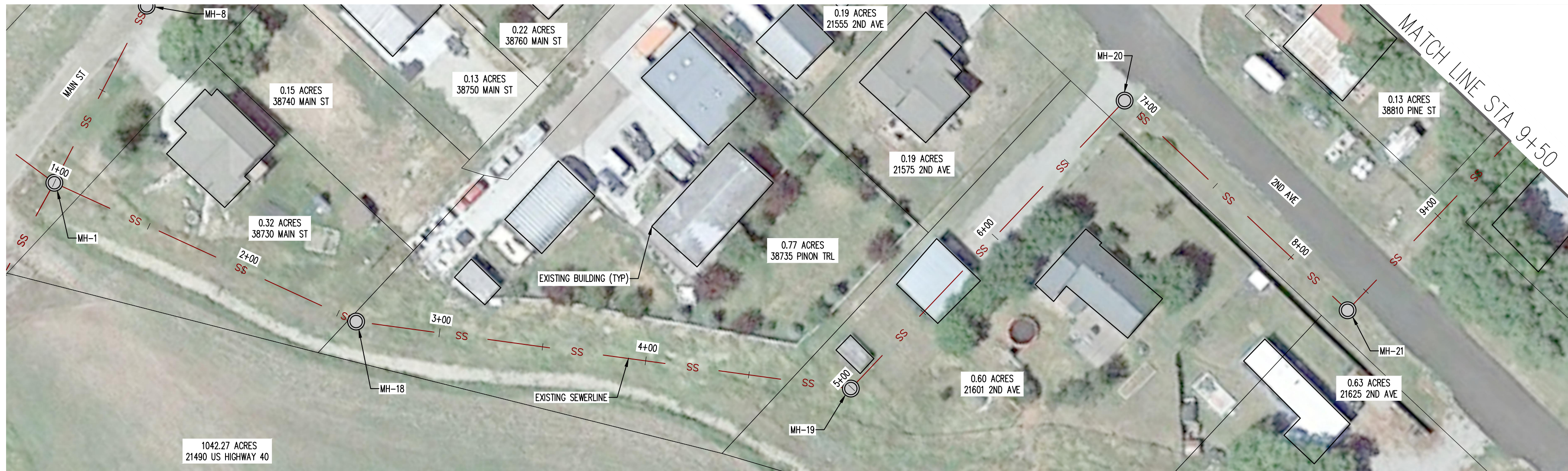
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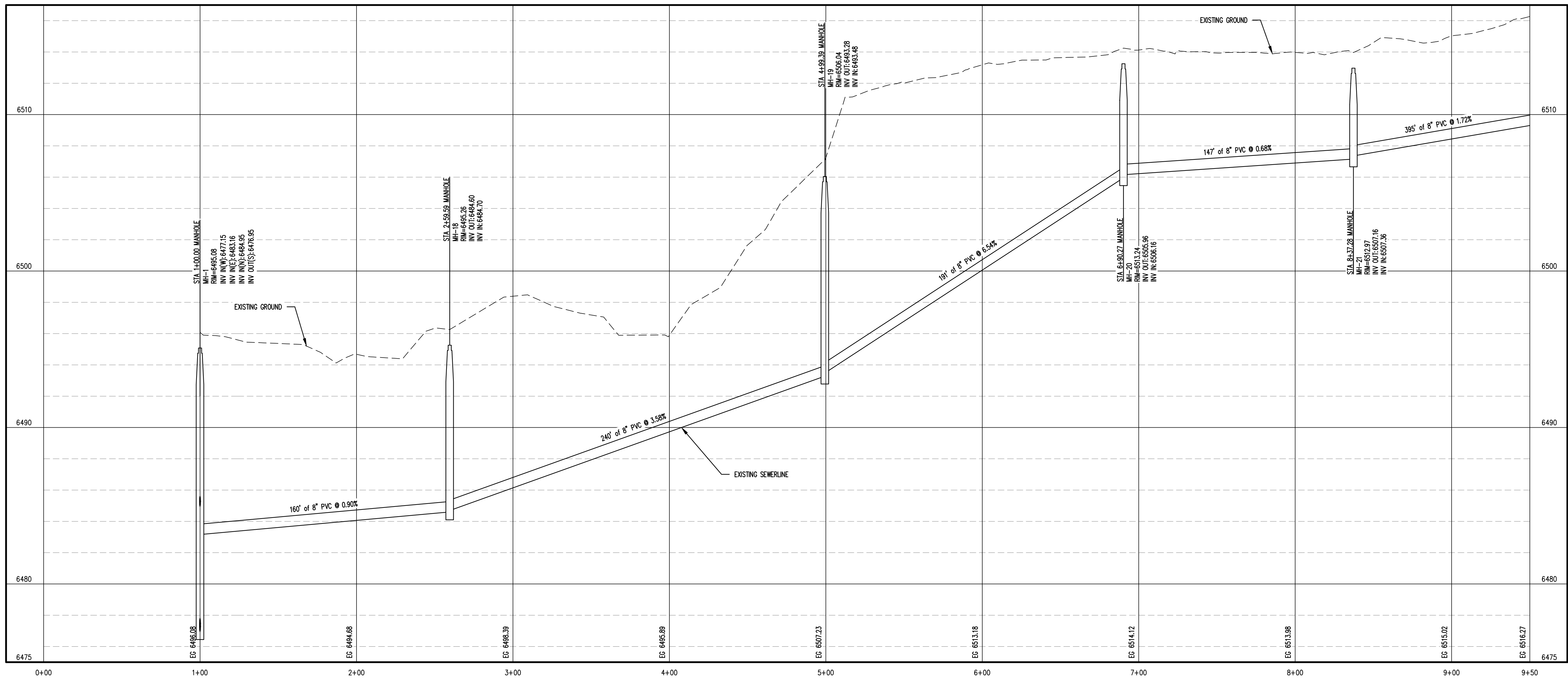
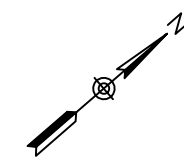
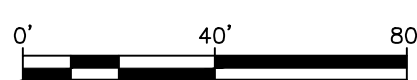
2ND AVE SEWERLINE
STA 1+00 TO THE END

SCALE
H: 1" = 40'
V: 1" = 4'

SHEET NUMBER:
C-08

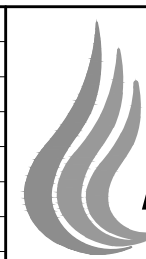


SANITARY SEWER PLAN
H: 1" = 40'



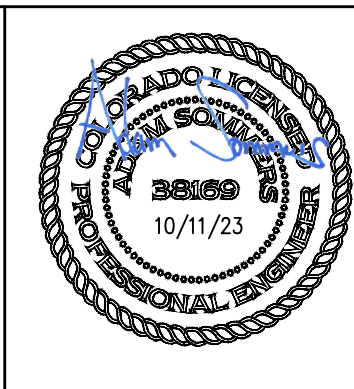
SANITARY SEWER PROFILE
V: 1" = 4'

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AquaWorks DBO
DESIGN BUILD OPERATE
3252 WILLIAMS STREET
DENVER, CO 80205
(303) 477-5915

COMMUNITY OF MILNER
SEWER LINE RELINING
PROJECT



PROJECT: COMMUNITY OF MILNER SEWER SYSTEM RELINING PROJECT
PROJECT NUMBER: 7829
CLIENT: COMMUNITY OF MILNER, ROUTT COUNTY
LOCATION: MILNER, ROUTT COUNTY, COLORADO
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UNNAMED #1 SEWERLINE
STA 1+00 TO STA 9+50

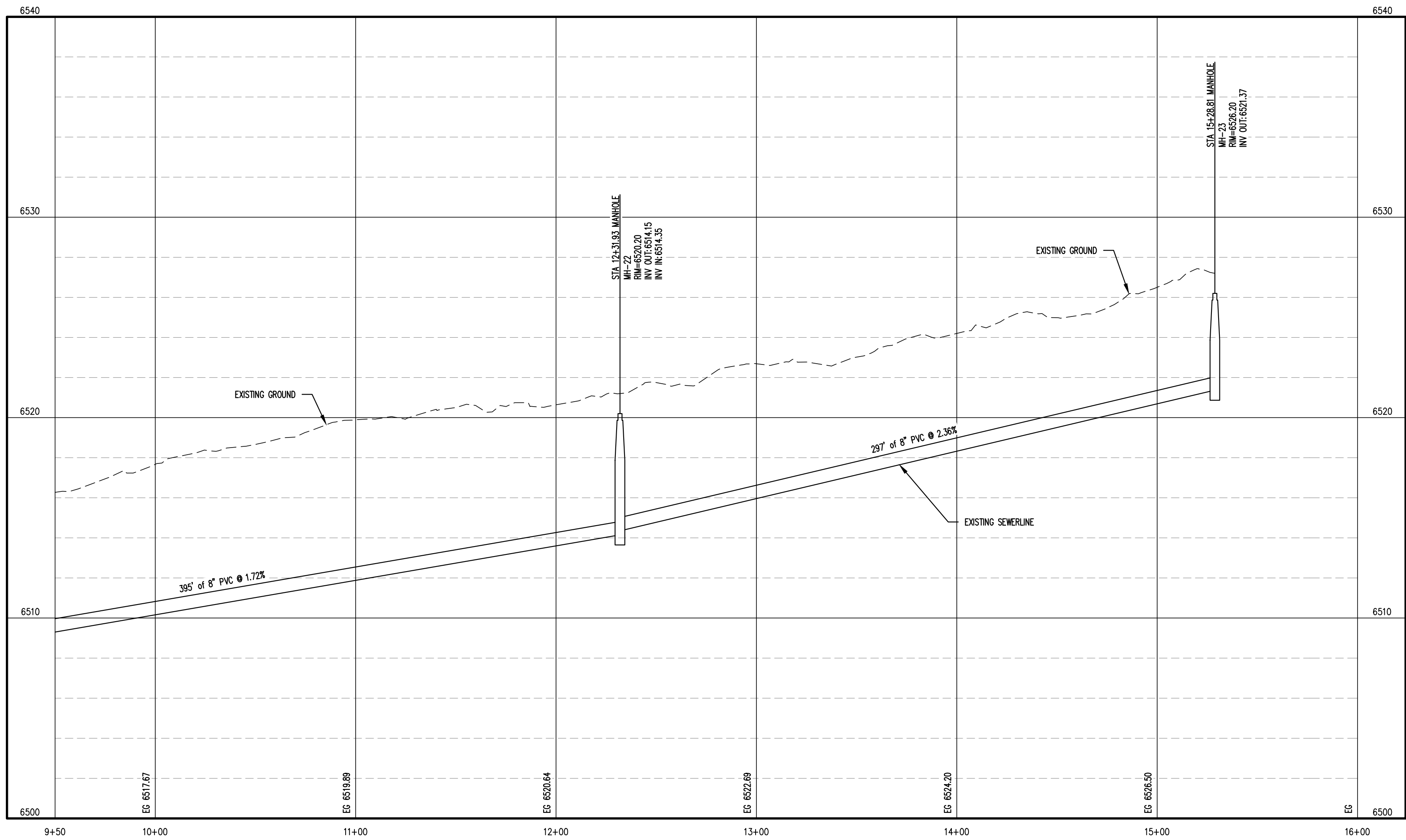
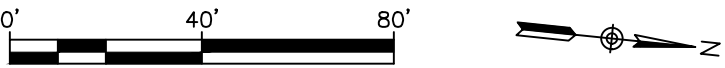
SCALE
H: 1" = 40'
V: 1" = 4'

SHEET NUMBER:
C-09



SANITARY SEWER PLAN

H: $1'' = 40'$



SANITARY SEWER PROFILE

$$V: 1'' = 4'$$
[illegible]

COMMUNITY OF MILNER
SEWER LINE RELINING
PROJECT



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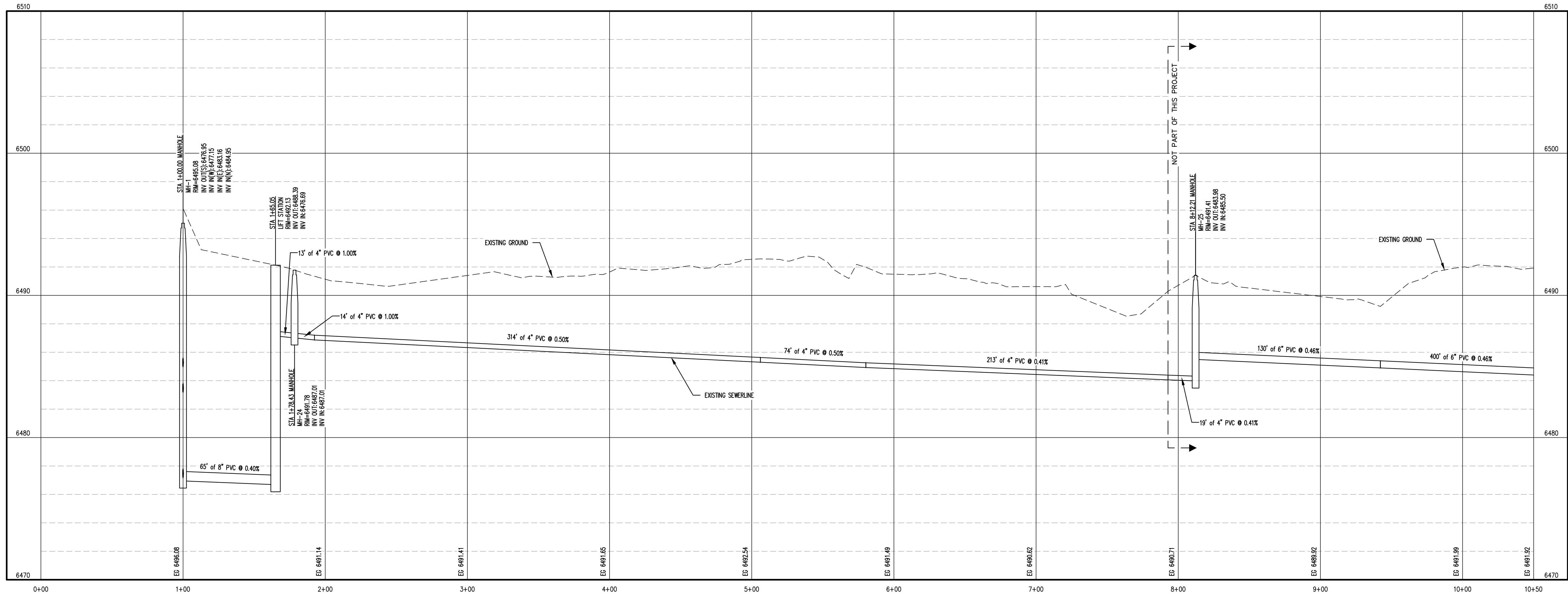
UNNAMED #1 SEWERLINE
STA 9+50 TO THE END

SALE

$$\begin{aligned} \text{H: } 1'' &= 40 \\ \text{V: } 1'' &= 4' \end{aligned}$$

SHEET NUMBER:

C-10



Sanitary Sewer Profile

V: 1" = 4'

REV. No:	DATE:	BY:	REVISION DESCRIPTION:



COMMUNITY OF MILNER
SEWER LINE RELINING
PROJECT



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PROJECT NUMBER: 7829
CLIENT: COMMUNITY OF MILNER, ROUTT COUNTY
LOCATION: MILNER, ROUTT COUNTY, COLORADO
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UNNAMED #2 SEWERLINE
STA 1+00 TO STA 10+50

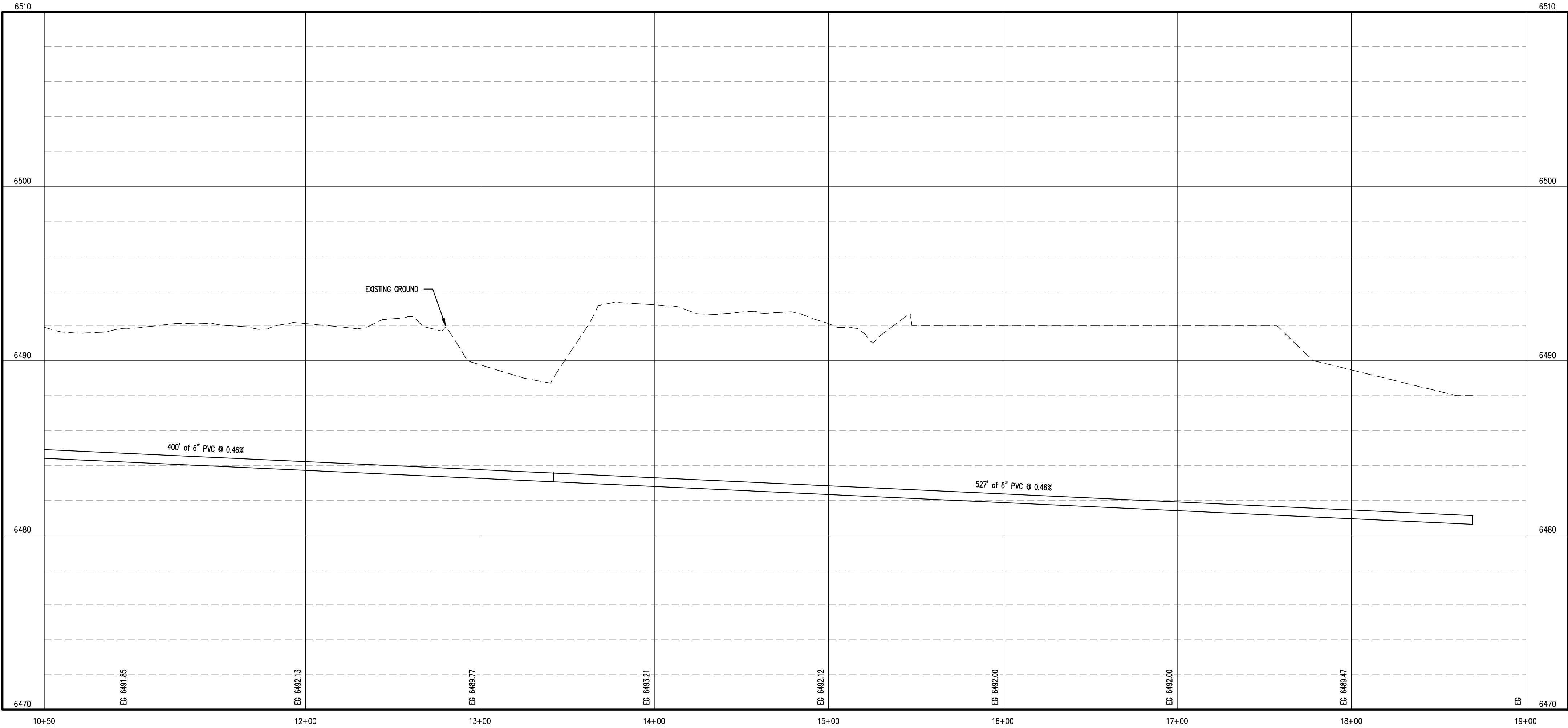
SCALE
H: 1" = 40'
V: 1" = 4'

SHEET NUMBER:

C-11



SANITARY SEWER PLAN
H: 1" = 40'



SANITARY SEWER PROFILE
V: 1" = 4'

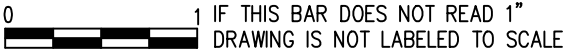
REV. No:	DATE:	BY:	REVISION DESCRIPTION:



COMMUNITY OF MILNER
SEWER LINE RELINING
PROJECT



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PROJECT NUMBER: 7829
CLIENT: COMMUNITY OF MILNER, ROUTT COUNTY
LOCATION: MILNER, ROUTT COUNTY, COLORADO
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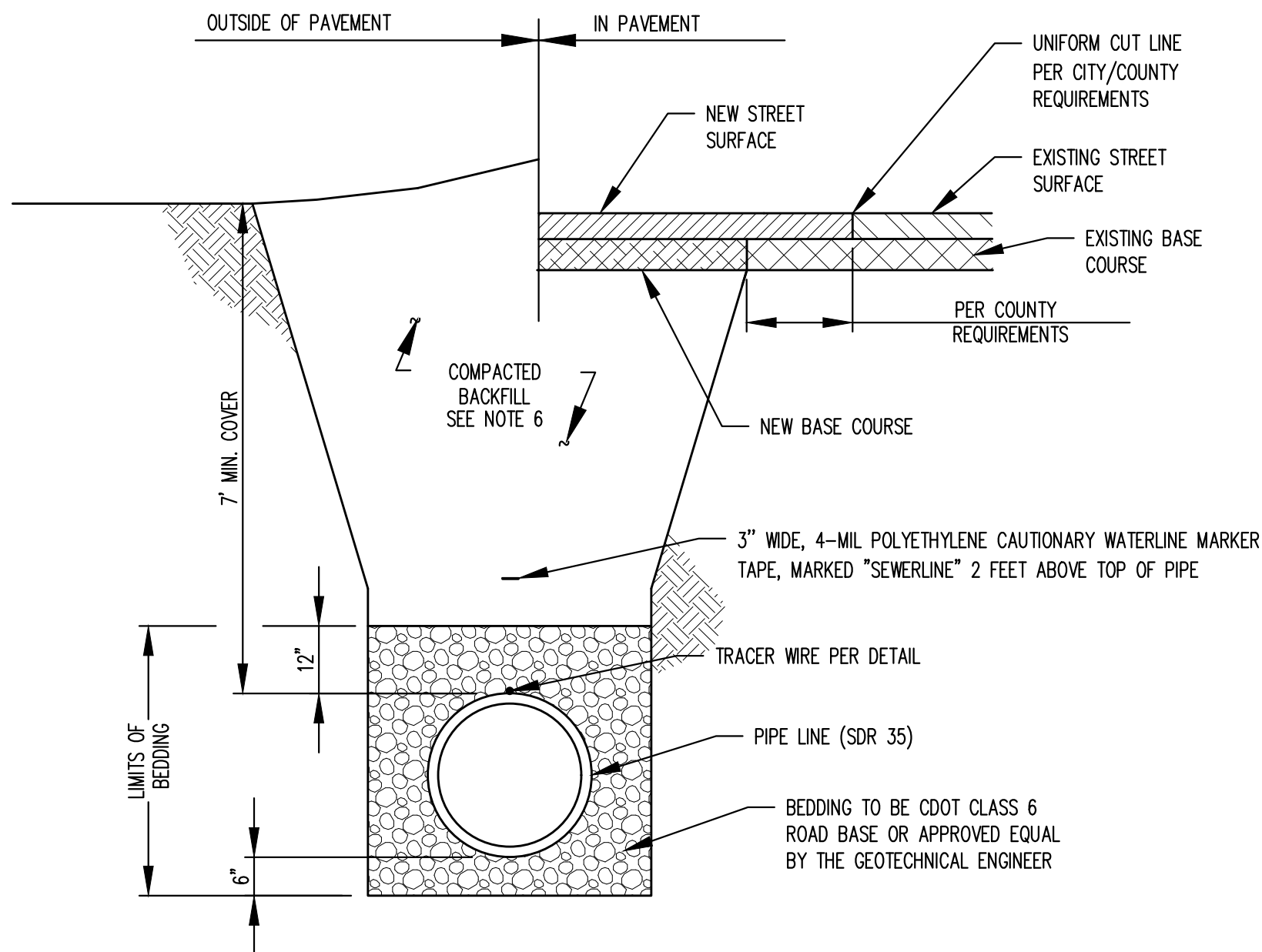


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UNNAMED #2 SEWERLINE
STA 10+50 TO THE END

SCALE
H: 1" = 40'
V: 1" = 4'

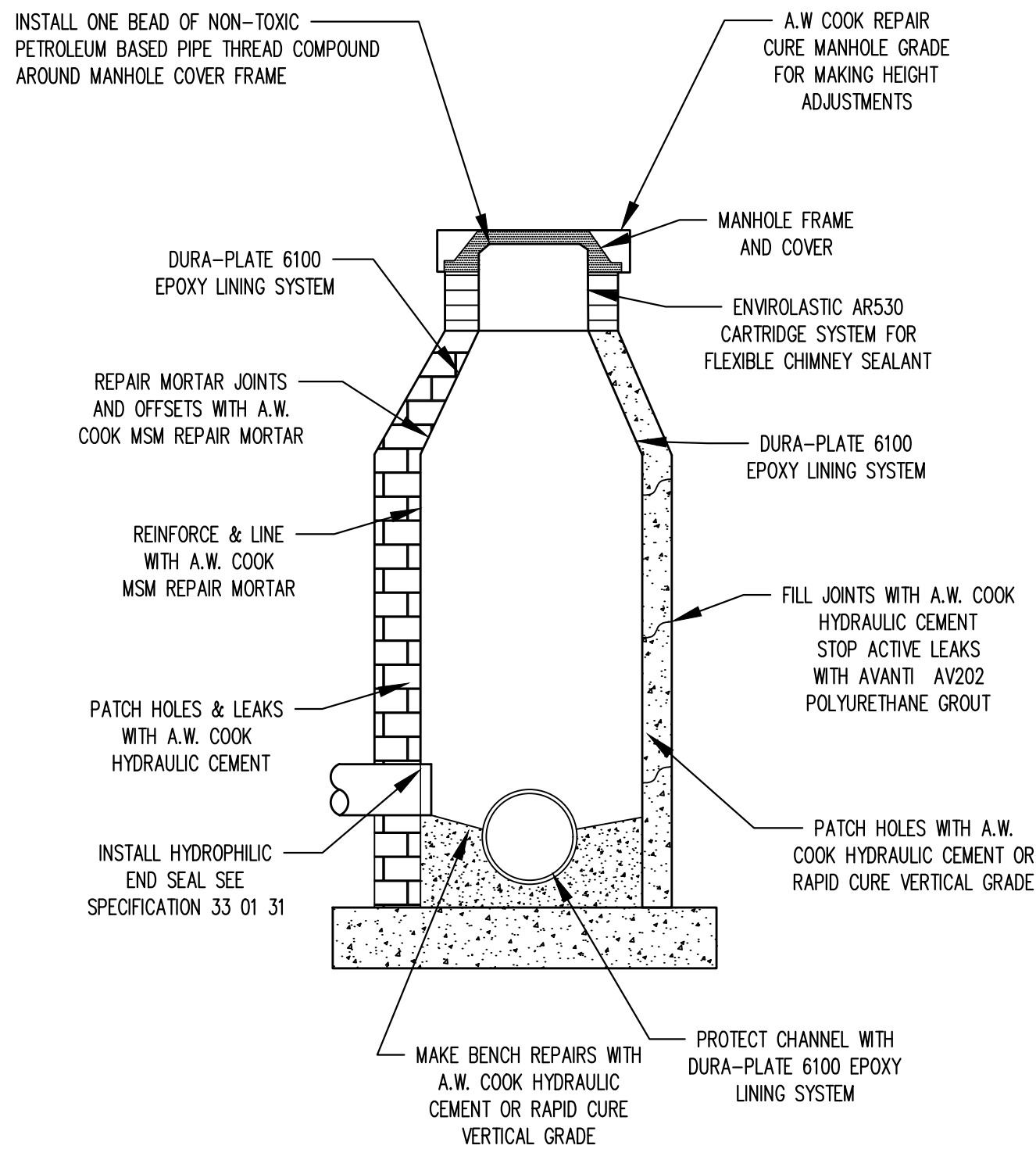
SHEET NUMBER:
C-12



- NOTES:
1. MINIMUM COVER TO BE 7" BELOW FINAL GRADE.
 2. TRENCH TO BE BRACED OR SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKMEN AND PROTECTION OF OTHER UTILITIES IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL SAFETY REGULATIONS.
 3. PIPE SHALL BE BEDDED FROM 6" BELOW THE BOTTOM OF THE PIPE TO 12" ABOVE THE TOP OF THE PIPE.
 4. SHOULD THE TRENCH BE EXCAVATED WIDER THAN ALLOWED, A CONCRETE CRADLE SHALL BE PLACED WITH 2500 P.S.I. CONCRETE FROM TRENCH BOTTOM TO PIPE SPRINGLINE.
 5. COMPACTION SHALL BE AS FOLLOWS: PIPE ZONE BEDDING 6" UNDER AND 12" OVER PIPE WILL REQUIRE 90% S.P.D. TRENCH ZONE ABOVE BEDDING MATERIALS, FULL TRENCH SECTION IN ROADWAY OR STREET R.O.W. LIMITS WILL REQUIRE 95% S.P.D. TRENCH ZONE ABOVE BEDDING MATERIALS, OUTSIDE OF STREET R.O.W. WILL REQUIRE 90% S.P.D. LIFTS SHALL NOT EXCEED 6". COMPACTION TESTING SHALL BE EVERY FOOT OR PER TELLER COUNTY REQUIREMENTS.
 6. USE ONLY BACKFILL FOR TRENCHES WHICH IS FREE FROM ROCKS, LARGE ROOTS, OTHER VEGETATION OR ORGANIC MATTER, AND FROZEN MATERIAL. NO ROCKS GREATER THAN TWELVE (12) INCHES IN DIAMETER SHALL BE ALLOWED.

BEDDING/COMPACTION

A
D-13



MANHOLE LINING DETAIL

B
D-13

REV. No:	DATE:	BY:	REVISION DESCRIPTION:



COMMUNITY OF MILNER
SEWER LINE RELINING
PROJECT



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PROJECT NUMBER: 7829
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CHECKED BY: ADAM SOMMERS, P.E.
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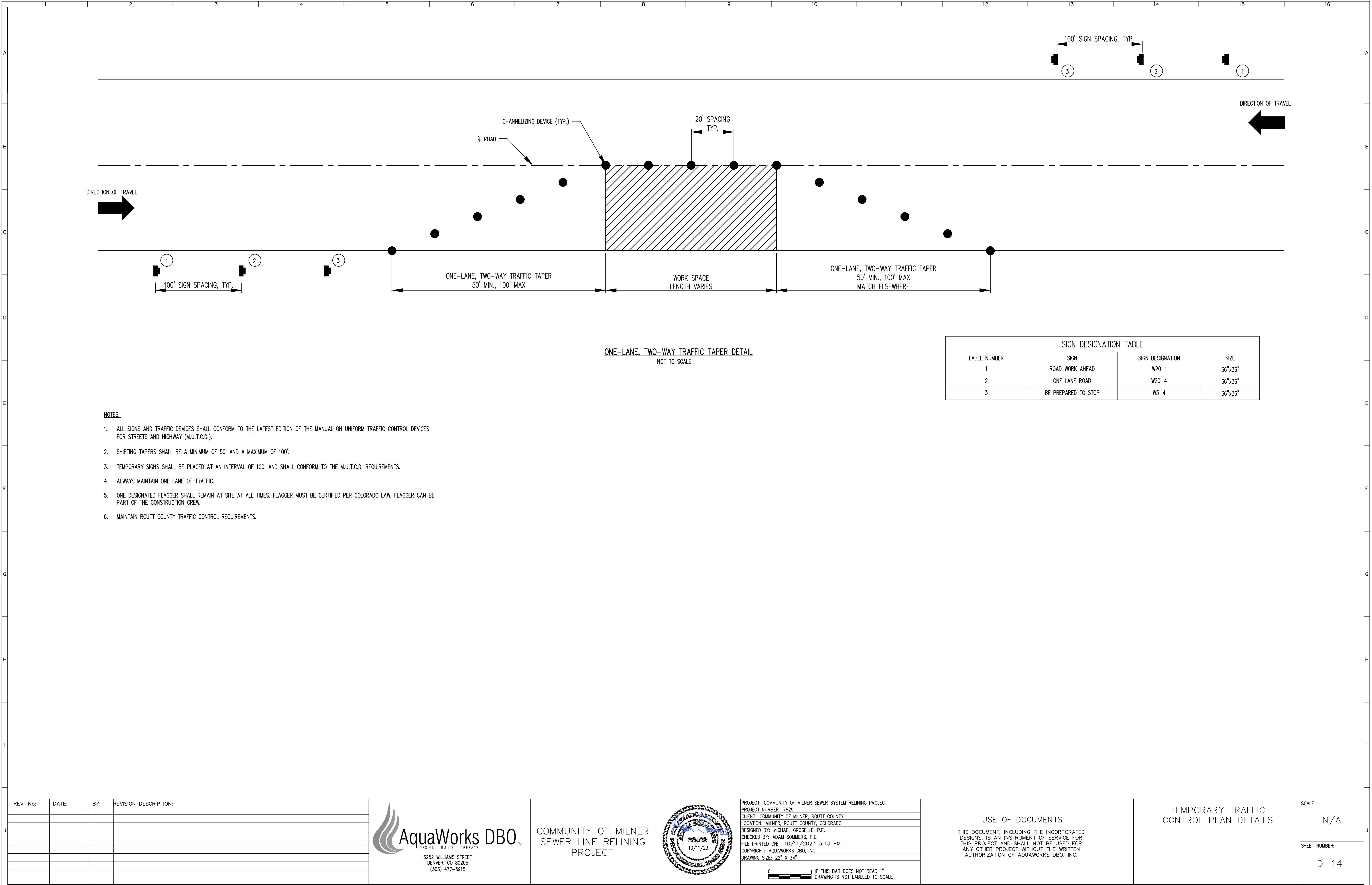
DETAILS I

SCALE

N/A

SHEET NUMBER:

D-13



ONE-LANE, TWO-WAY TRAFFIC TAPER DETAIL
NOT TO SCALE

SIGN DESIGNATION TABLE			
LABEL NUMBER	SIGN	SIGN DESIGNATION	SIZE
1	ROAD WORK AHEAD	W20-1	36"x36"
2	ONE LANE ROAD	W20-4	36"x36"
3	BE PREPARED TO STOP	W3-4	36"x36"

- NOTES:
- ALL SIGNS AND TRAFFIC DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAY (M.U.T.C.D.).
 - SHIFTING TAPERS SHALL BE A MINIMUM OF 50' AND A MAXIMUM OF 100'.
 - TEMPORARY SIGNS SHALL BE PLACED AT AN INTERVAL OF 100' AND SHALL CONFORM TO THE M.U.T.C.D. REQUIREMENTS.
 - ALWAYS MAINTAIN ONE LANE OF TRAFFIC.
 - ONE DESIGNATED FLAGGER SHALL REMAIN AT SITE AT ALL TIMES. FLAGGER MUST BE CERTIFIED PER COLORADO LAW. FLAGGER CAN BE PART OF THE CONSTRUCTION CREW.
 - MAINTAIN ROUTT COUNTY TRAFFIC CONTROL REQUIREMENTS.

REV. No:	DATE:	BY:	REVISION DESCRIPTION:



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DENVER, CO 80205
(303) 477-5915

COMMUNITY OF MILNER
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