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# CHALLENGER HOMES

WATER & WASTEWATER CONSTRUCTION PLANS  
FALCON MEADOWS AT BENT GRASS FILING NO. 1

CHALLENGER COMMUNITIES, LLC

BENT GRASS MEADOWS DRIVE & MERDIAN ROAD  
FALCON, CO 80831 - EL PASO COUNTY

[illegible]

Project No:	CLH000018
Drawn By:	CMWJ
Checked By:	RGD
Date:	03/26/2021

## OVERALL UTILITY LAYOUT

# U0.2

Sheet 3 of 21

## BASIS OF BEARINGS

ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983. THE BEARING OF THE LINE BETWEEN THE SOUTHWEST CORNER OF SECTION 1, T13S, R65W AND THE WEST QUARTER CORNER SECTION 1, T13S, R65W IS N00°13'46"W AND MONUMENTED AS SHOWN:

## BENCHMARK

THE SOUTHWESTERLY CORNER OF LOT 1 WOODMEN HILLS FILING NO. 4. MONUMENTED BY A YELLOW PLASTIC SURVEYORS CAP ON A NO. 4 REBAR LS# 24954 ELEVATION = 6947.67

CAUTION - NOTICE TO CONTRACTOR

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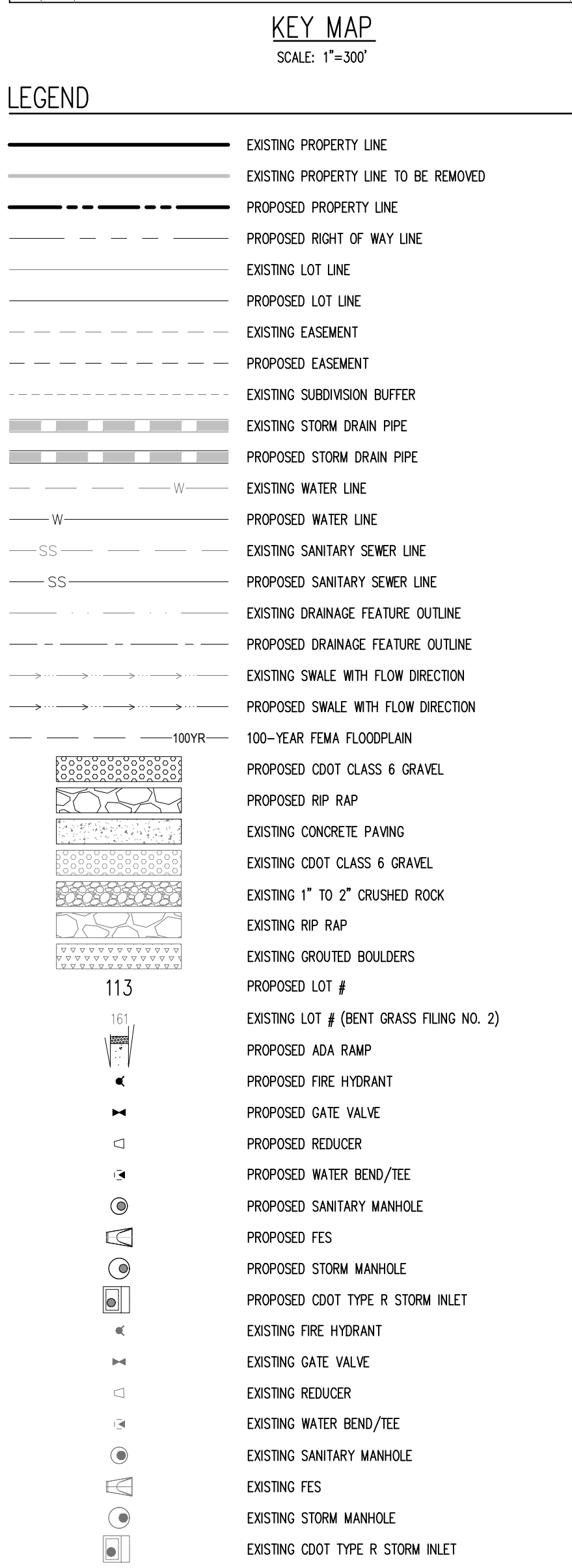
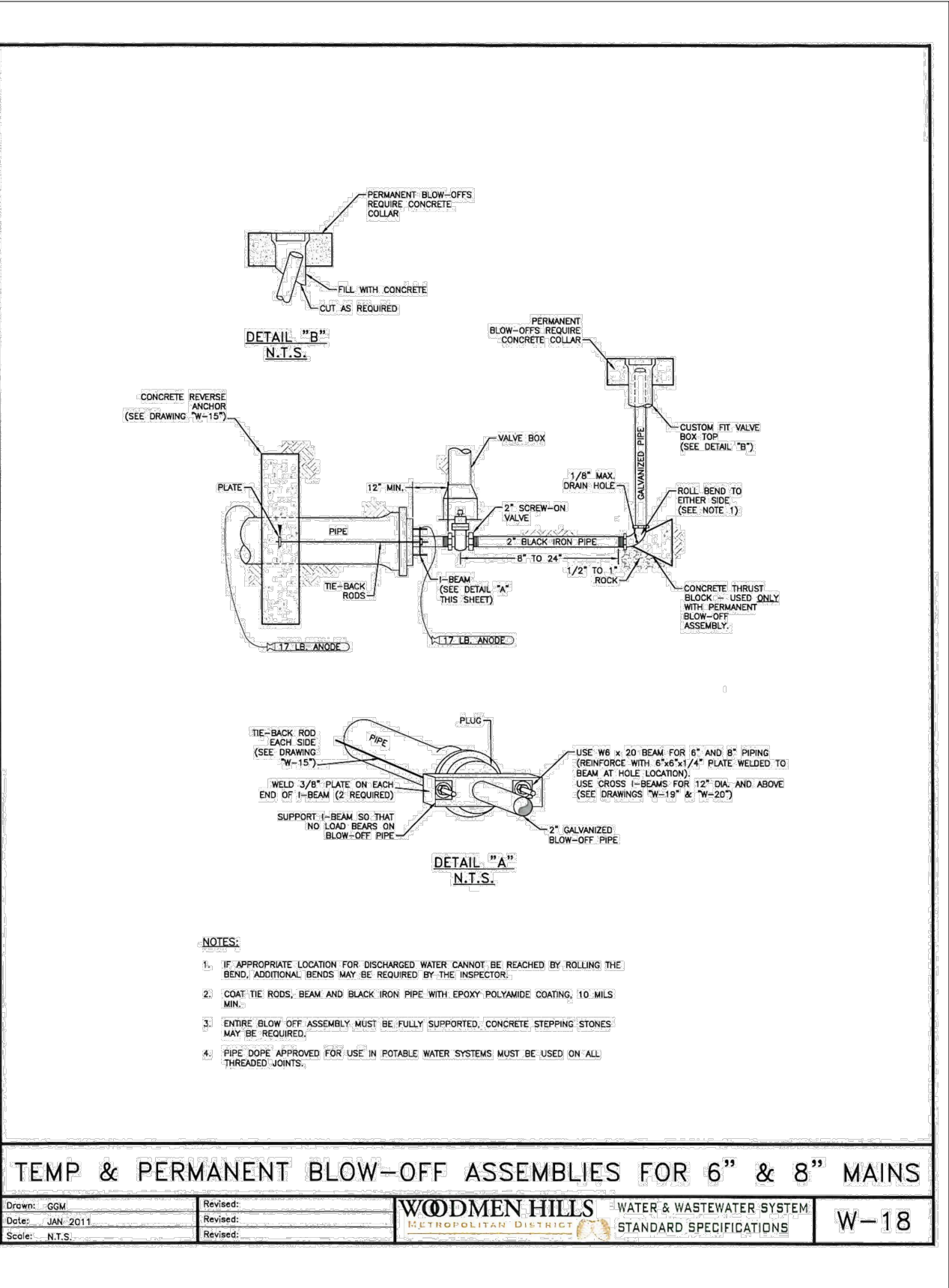
Know what's **below**.  
**Call** before you dig.

4 | Challenger: Horner Inc/CO. © Paso County-CLW00018-Bart Grass. Filing 30CARDS-CDUTIL-CLH18. U0.2-Coveral Sheet dng - Coleb Johnson - 3/28/2021









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THE SOUTHWESTERLY CORNER OF LOT 1 WOODMEN HILLS FILING NO. 4, MONUMENTED BY A YELLOW PLASTIC SURVEYORS CAP ON A NO. 4 REBAR LS# 24954 ELEVATION = 6947.67

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Know what's **below**.  
**Call** before you c





EXISTING PROPERTY LINE

EXISTING PROPERTY LINE TO BE REMOVED

PROPOSED RIGHT OF WAY LINE

EXISTING LOT LINE

PROPOSED LOT LINE

EXISTING EASEMENT

PROPOSED EASEMENT

EXISTING SUBDIVISION BUFFER

EXISTING DRAINAGE FEATURE OUTLINE

PROPOSED DRAINAGE FEATURE OUTLINE

EXISTING SWALE WITH FLOW DIRECTION

PROPOSED SWALE WITH FLOW DIRECTION

100-YR FEMA FLOODPLAIN

PROPOSED CDOT CLASS 6 GRAVEL

PROPOSED RIP RAP

PROPOSED LOT #

EXISTING LOT # (BENT GRASS FILING NO.)

PROPOSED ADA RAMP

2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.



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# CHALLENGER HOMES

BENT GRASS MEADOWS DRIVE & MERDIAN ROAD  
FALCON, CO 80831 - EL PASO COUNTY

Project No:	CLH000018
Drawn By:	CMW
Checked By:	RGE
Date:	03/26/2021

Sheet 6 of 21



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FOR  
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BENT GRASS MEADOWS DRIVE & MERIDIAN ROAD  
FALCON, CO 80831 - EL PASO COUNTY

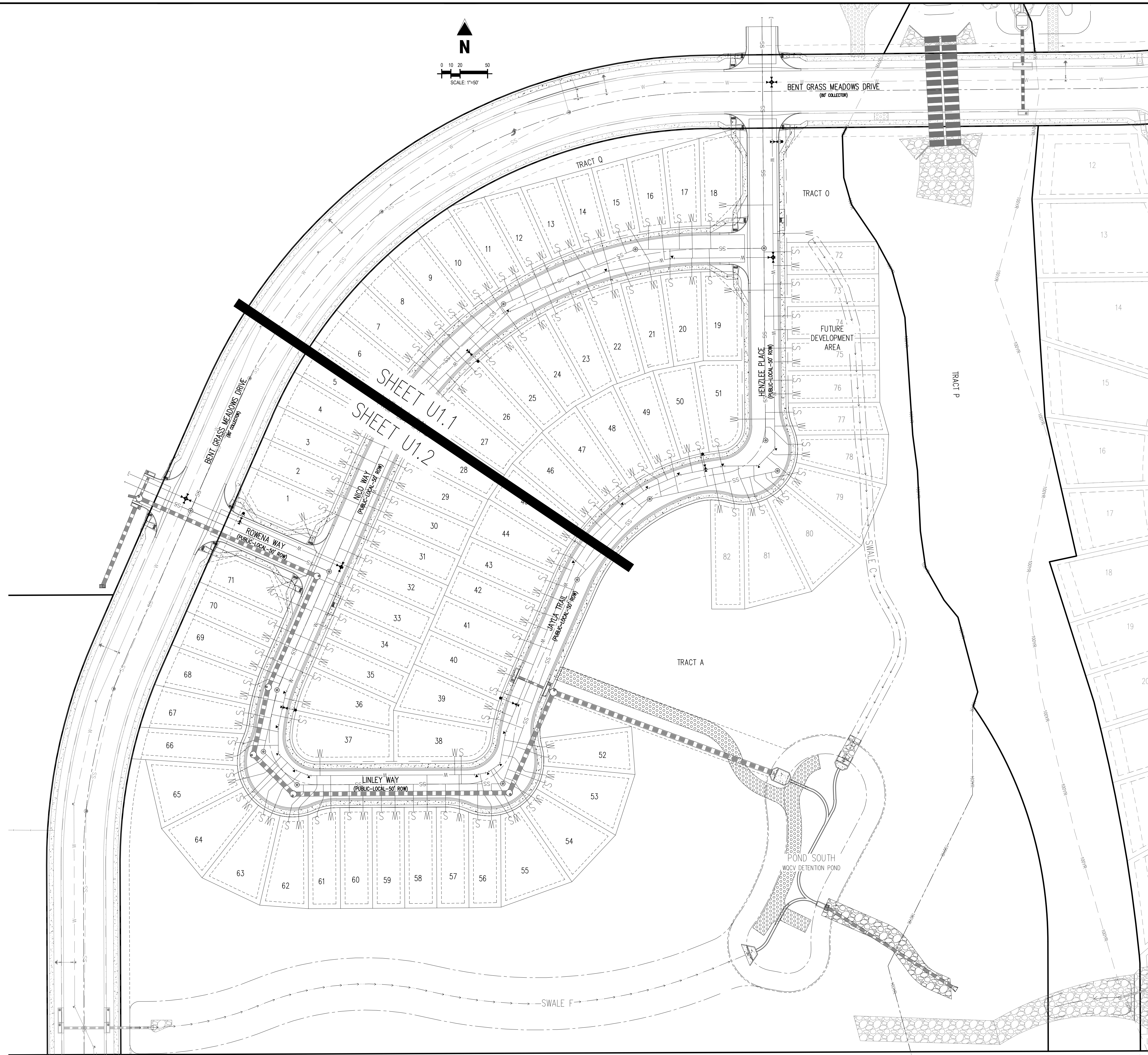
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Project No:	CLH000018
Drawn By:	CMWJ
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Date:	06/23/2021

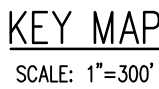
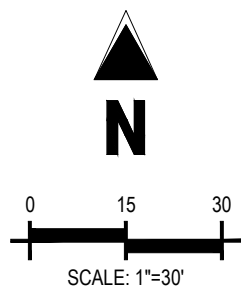
## WATER PLAN KEY MAP

U1.0

Sheet 7 of 21







	EXISTING PROPERTY LINE
	EXISTING PROPERTY LINE TO BE REMOVED
	PROPOSED RIGHT OF WAY LINE
	EXISTING LOT LINE
	PROPOSED LOT LINE
	EXISTING EASEMENT
	PROPOSED EASEMENT
	EXISTING SUBDIVISION BUFFER
	EXISTING STORM DRAIN PIPE
	PROPOSED STORM DRAIN PIPE
	EXISTING WATER LINE
	PROPOSED WATER LINE
	EXISTING SANITARY SEWER LINE
	PROPOSED SANITARY SEWER LINE
	EXISTING DRAINAGE FEATURE OUTLINE
	PROPOSED DRAINAGE FEATURE OUTLINE
	EXISTING SWALE WITH FLOW DIRECTION
	PROPOSED SWALE WITH FLOW DIRECTION
	100-YR FEMA FLOODPLAIN
	PROPOSED CDOT CLASS 6 GRAVEL
	PROPOSED RIP RAP
	EXISTING CONCRETE PAVING
	EXISTING CDOT CLASS 6 GRAVEL
	EXISTING 1" TO 2" CRUSHED ROCK
	EXISTING RIP RAP
	EXISTING GROUTED BOULDERS
	PROPOSED LOT #
	EXISTING LOT # (BENT GRASS FILING NO.)
	PROPOSED ADA RAMP
	PROPOSED FIRE HYDRANT
	PROPOSED GATE VALVE
	PROPOSED REDUCER
	PROPOSED WATER BEND/TEE
	PROPOSED SANITARY MANHOLE
	PROPOSED FES
	PROPOSED STORM MANHOLE
	PROPOSED CDOT TYPE R STORM INLET

1. ALL WATER MAINS SHALL BE NO CLOSER THAN FIVE FEET (5') TO EDGE OF CONCRETE CURB AND/OR GUTTER.
2. WATER MAINS SHALL BE DESIGNED FOR A MINIMUM OF FIVE FEET SIX INCHES (5'-6") AND A MAXIMUM OF SIX FEET SIX INCHES (6'-6") OF COVER, EXCEPT WHERE ANOTHER UTILITY CAUSES A CONFLICT, IN WHICH CASE THE WATER MAIN SHALL BE LOWERED AS NECESSARY.
3. A VALVE SHALL ALWAYS BE PROVIDED WHERE A MAIN WILL BE EXTENDED IN THE FUTURE TO FACILITATE CONNECTING TO THE EXISTING MAIN WITHOUT DISRUPTING SERVICE. THERE SHALL BE A TWENTY FOOT (20') STUB PAST THE VALVE TO FACILITATE EASE OF CONNECTION.

CONTRACTOR TO READ AND BECOME FAMILIAR WITH THE WOODMEN HILLS METROPOLITAN DISTRICT WATER AND WASTEWATER SYSTEM STANDARD SPECIFICATIONS CRITERIA MANUAL AND DETAILS PRIOR TO BEGINNING CONSTRUCTION.

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[illegible]

Project No:	CLH000018
Drawn By:	CMWJ
Checked By:	RGD
Date:	03/26/2021

## WATER PLAN

# U1.1

Sheet 8 of 21



[illegible]

Project No:	CLH000018
Drawn By:	CMWJ
Checked By:	RGD
Date:	06/23/2021

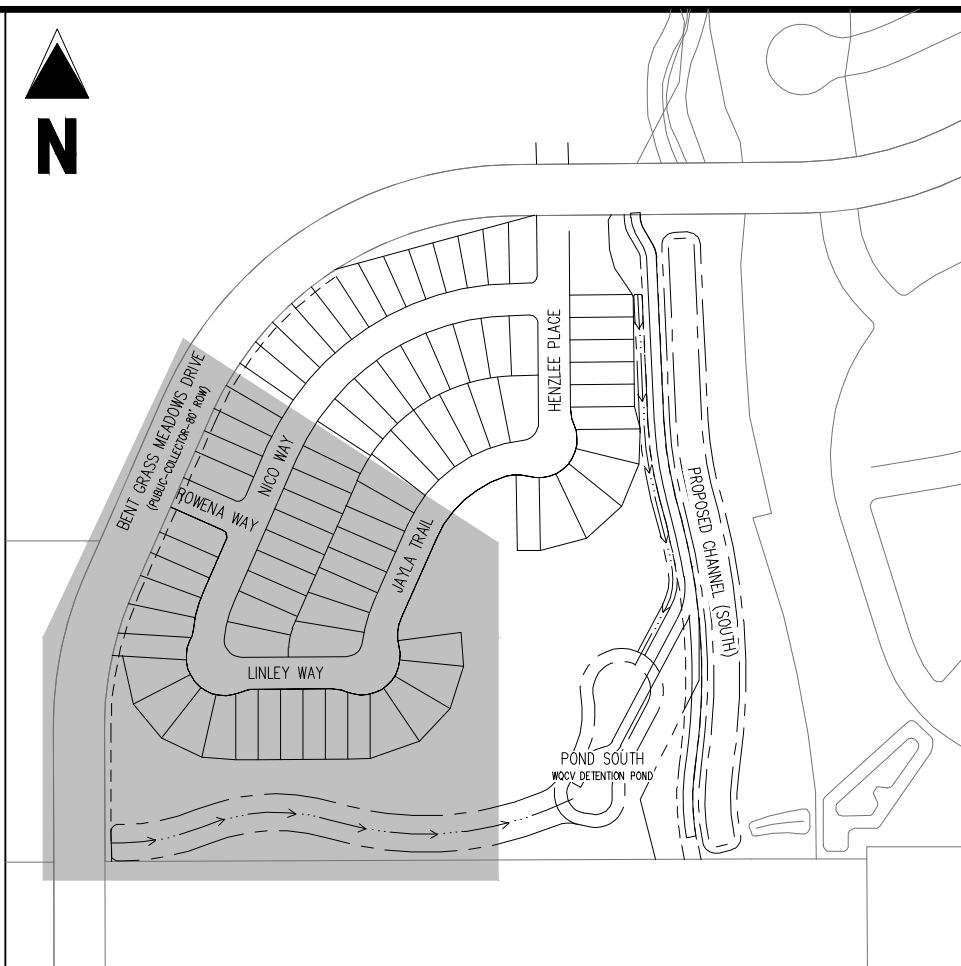
## WATER PLAN



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

# U1.2

Sheet 9 of 21



## KEY MAP

SCALE: 1"=300'

### LEGEND

- |  |  |
|--|--|
|  | EXISTING PROPERTY LINE                 |
|  | EXISTING PROPERTY LINE TO BE REMOVED   |
|  | PROPOSED RIGHT OF WAY LINE             |
|  | EXISTING LOT LINE                      |
|  | PROPOSED LOT LINE                      |
|  | EXISTING EASEMENT                      |
|  | PROPOSED EASEMENT                      |
|  | EXISTING SUBDIVISION BUFFER            |
|  | EXISTING STORM DRAIN PIPE              |
|  | PROPOSED STORM DRAIN PIPE              |
|  | EXISTING WATER LINE                    |
|  | PROPOSED WATER LINE                    |
|  | EXISTING SANITARY SEWER LINE           |
|  | PROPOSED SANITARY SEWER LINE           |
|  | EXISTING DRAINAGE FEATURE OUTLINE      |
|  | PROPOSED DRAINAGE FEATURE OUTLINE      |
|  | EXISTING SWALE WITH FLOW DIRECTION     |
|  | PROPOSED SWALE WITH FLOW DIRECTION     |
|  | 100-YR FEMA FLOODPLAIN                 |
|  | PROPOSED CDOT CLASS 6 GRAVEL           |
|  | PROPOSED RIP RAP                       |
|  | EXISTING CONCRETE PAVING               |
|  | EXISTING CDOT CLASS 6 GRAVEL           |
|  | EXISTING 1" TO 2" CRUSHED ROCK         |
|  | EXISTING RIP RAP                       |
|  | EXISTING GROUTED BOULDERS              |
|  | PROPOSED LOT #                         |
|  | EXISTING LOT # (BENT GRASS FILING NO.) |
|  | PROPOSED ADA RAMP                      |
|  | PROPOSED FIRE HYDRANT                  |
|  | PROPOSED GATE VALVE                    |
|  | PROPOSED REDUCER                       |
|  | PROPOSED WATER BEND/TEE                |
|  | PROPOSED SANITARY MANHOLE              |
|  | PROPOSED FES                           |
|  | PROPOSED STORM MANHOLE                 |
|  | PROPOSED CDOT TYPE R STORM INLET       |

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## BASIS OF BEARINGS

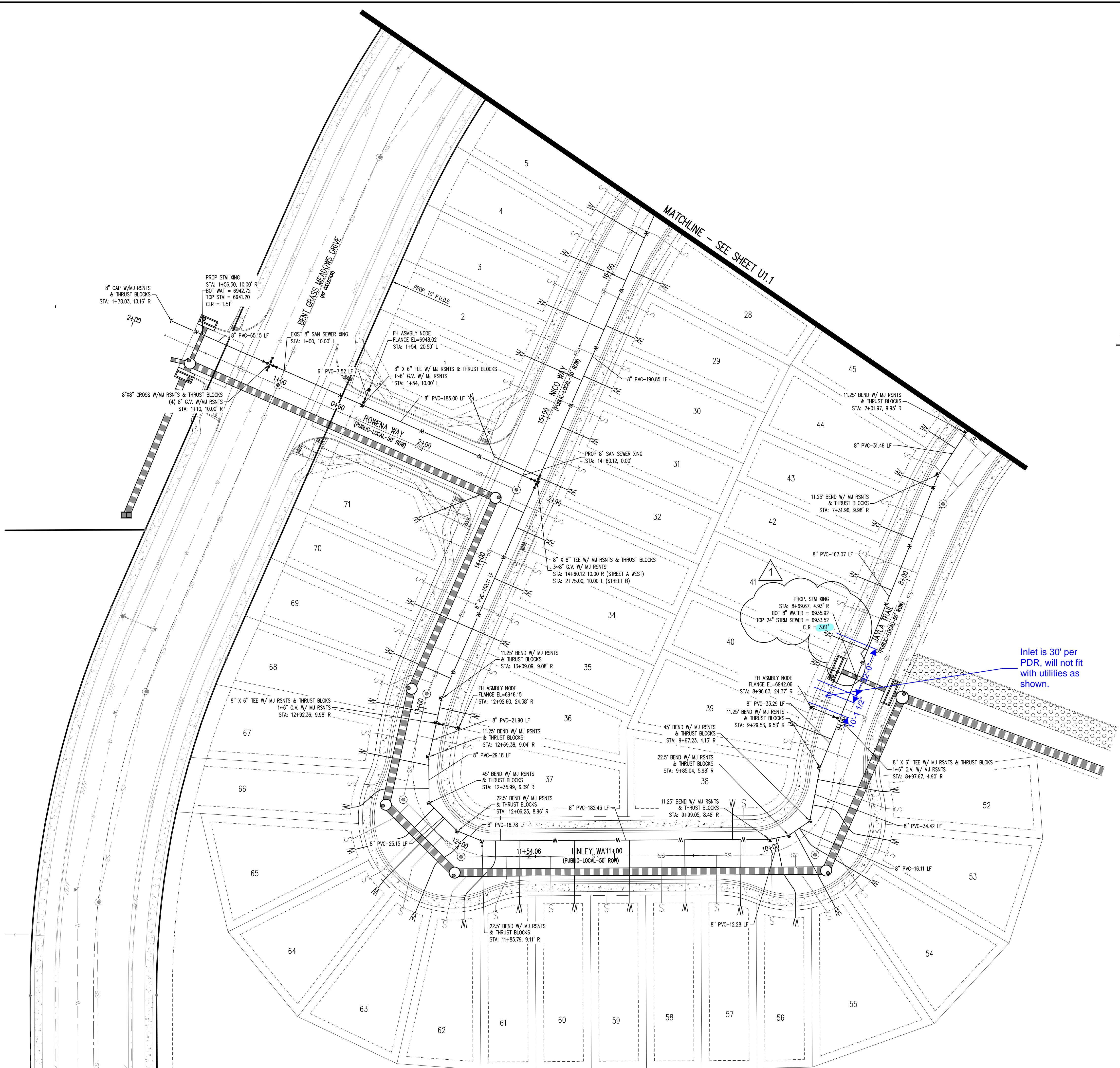
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## BENCHMARK

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YELLOW PLASTIC SURVEYORS CAP ON A NO. 4 REBAR LS# 24954 ELEVATION = 6947.67

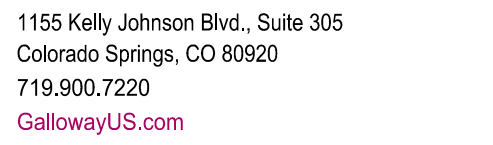
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41Challenger Homes, Inc.(CO, E) Paso County-CLH00016-Sent Grass Filing JICADD3-CDUTIL/CLH18\_W12\_Water Plan deq - Charles Dufham - 6/29/2021





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FOR  
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BENT GRASS MEADOWS DRIVE & MERDIAN ROAD  
FALCON, CO 80831 - EL PASO COUNTY

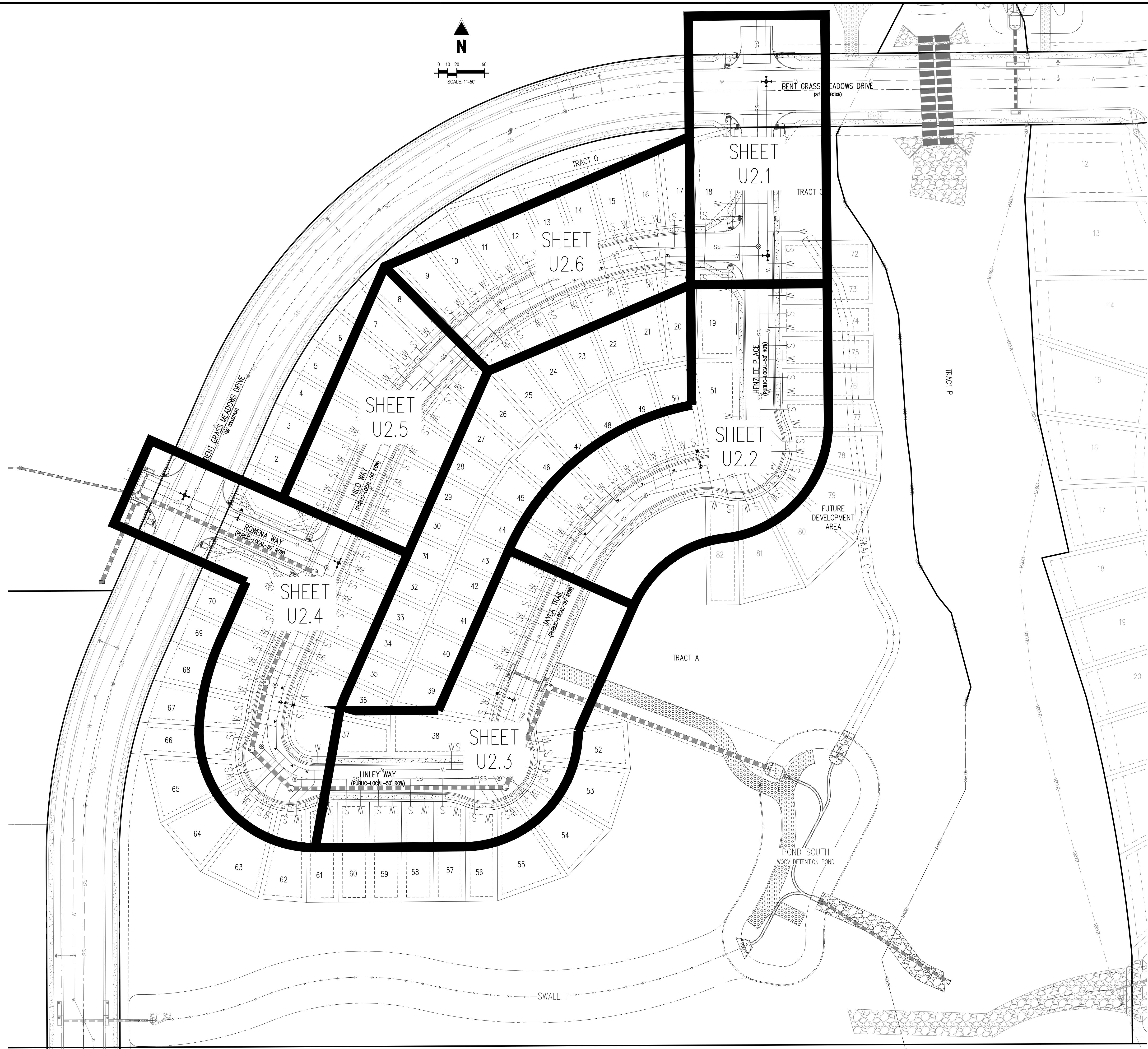
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Project No:	CLH000018
Drawn By:	CMWJ
Checked By:	RGD
Date:	03/26/2021

## WASTEWATER PLAN KEY MAP

# U2.0

Sheet 10 of 21





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BENT GRASS MEADOWS DRIVE & MERIDIAN ROAD  
FALCON, CO 80831 - EL PASO COUNTY

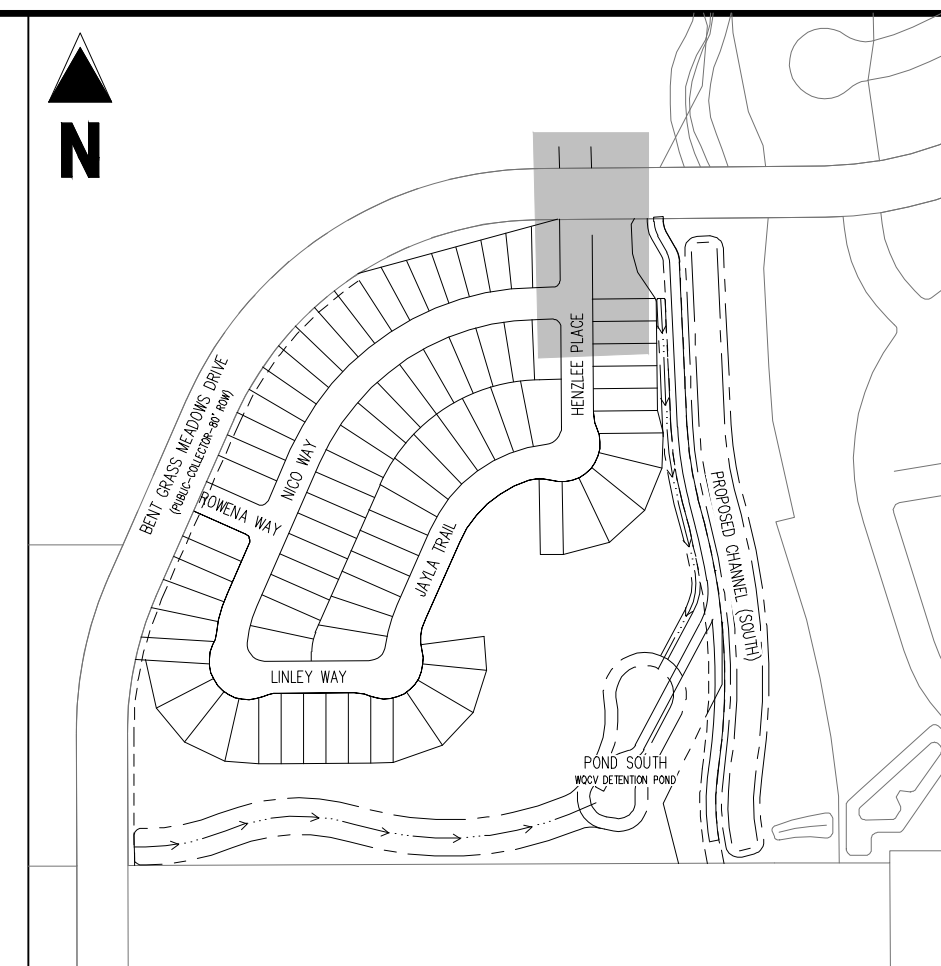
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Project No:	CLH000018
Drawn By:	CMWJ
Checked By:	RGD
Date:	06/23/2021

WASTEWATER PLAN &amp; PROFILE

## U2.1

Sheet 11 of 21



KEY MAP  
SCALE: 1"=300'

LEGEND

- |  |                                       |
|--|---------------------------------------|
|  | EXISTING PROPERTY LINE                |
|  | EXISTING PROPERTY LINE TO BE REMOVED  |
|  | PROPOSED RIGHT OF WAY LINE            |
|  | EXISTING LOT LINE                     |
|  | PROPOSED LOT LINE                     |
|  | EXISTING EASEMENT                     |
|  | PROPOSED EASEMENT                     |
|  | EXISTING SUBDIVISION BUFFER           |
|  | EXISTING STORM DRAIN PIPE             |
|  | PROPOSED STORM DRAIN PIPE             |
|  | EXISTING WATER LINE                   |
|  | PROPOSED WATER LINE                   |
|  | EXISTING SANITARY SEWER LINE          |
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|  | EXISTING DRAINAGE FEATURE OUTLINE     |
|  | PROPOSED DRAINAGE FEATURE OUTLINE     |
|  | EXISTING SWALE WITH FLOW DIRECTION    |
|  | PROPOSED SWALE WITH FLOW DIRECTION    |
|  | 100-YEAR FLOODPLAIN                   |
|  | PROPOSED CDOT CLASS 6 GRAVEL          |
|  | PROPOSED RIP RAP                      |
|  | EXISTING CONCRETE PAVING              |
|  | EXISTING CDOT CLASS 6 GRAVEL          |
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|  | EXISTING RIP RAP                      |
|  | EXISTING GROUTED BOULDERS             |
|  | PROPOSED LOT #                        |
|  | EXISTING LOT # (BENT GRASS FLUNG NO.) |
|  | PROPOSED ADA RAMP                     |
|  | PROPOSED FIRE HYDRANT                 |
|  | PROPOSED GATE VALVE                   |
|  | PROPOSED REDUCER                      |
|  | PROPOSED WATER BEND/TEE               |
|  | PROPOSED SANITARY MANHOLE             |
|  | PROPOSED FES                          |
|  | PROPOSED STORM MANHOLE                |
|  | PROPOSED CDOT TYPE R STORM INLET      |

## NOTES

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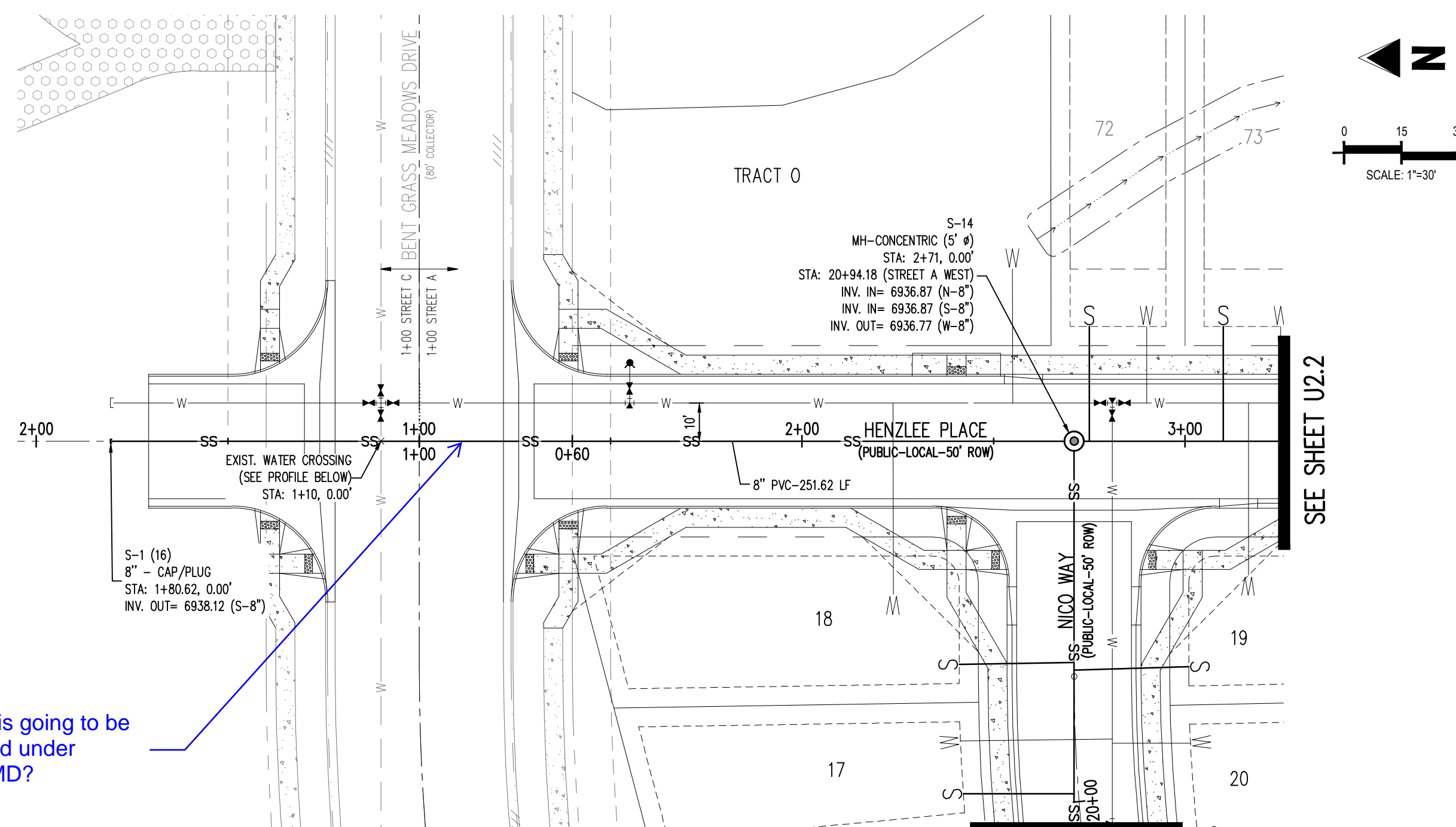
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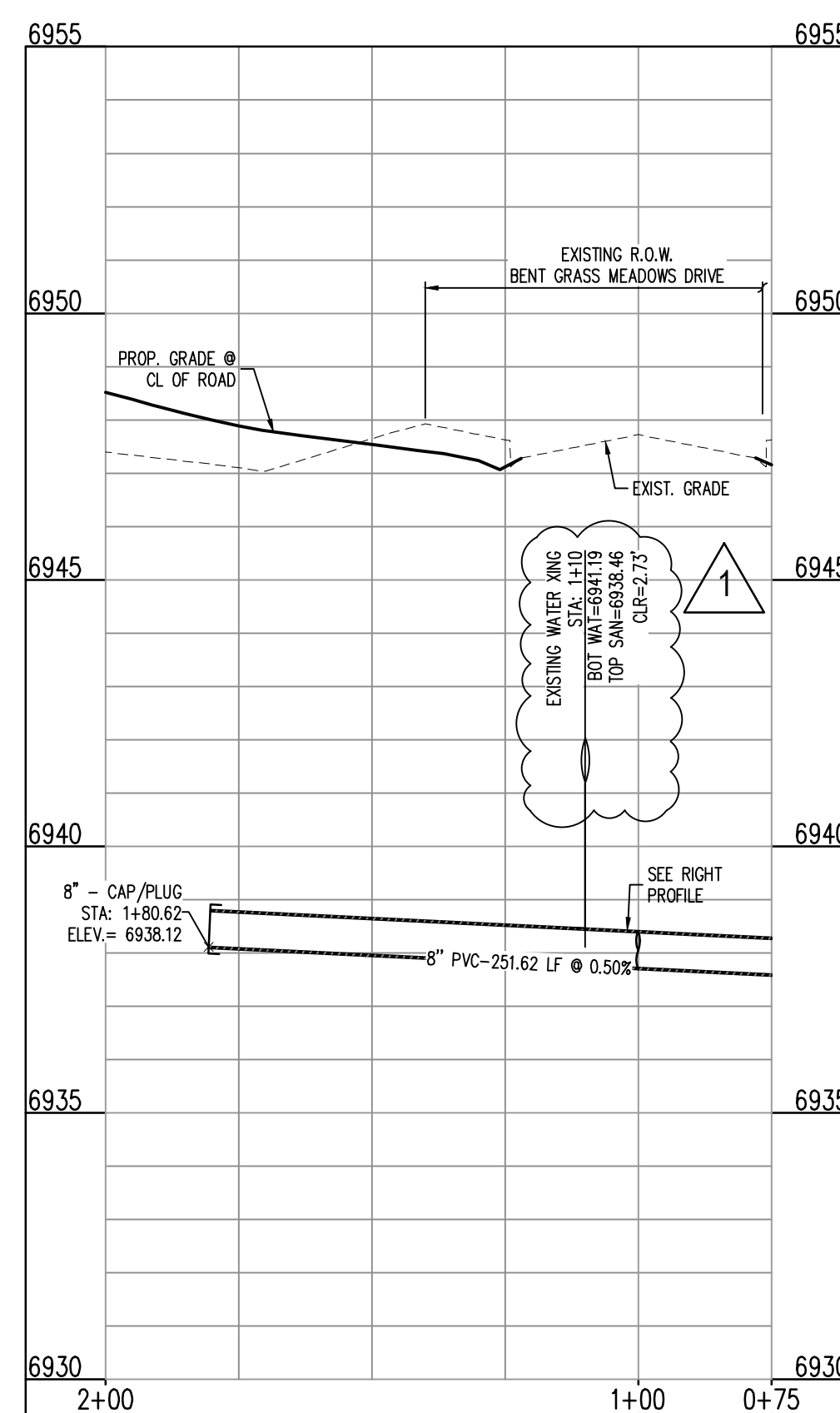


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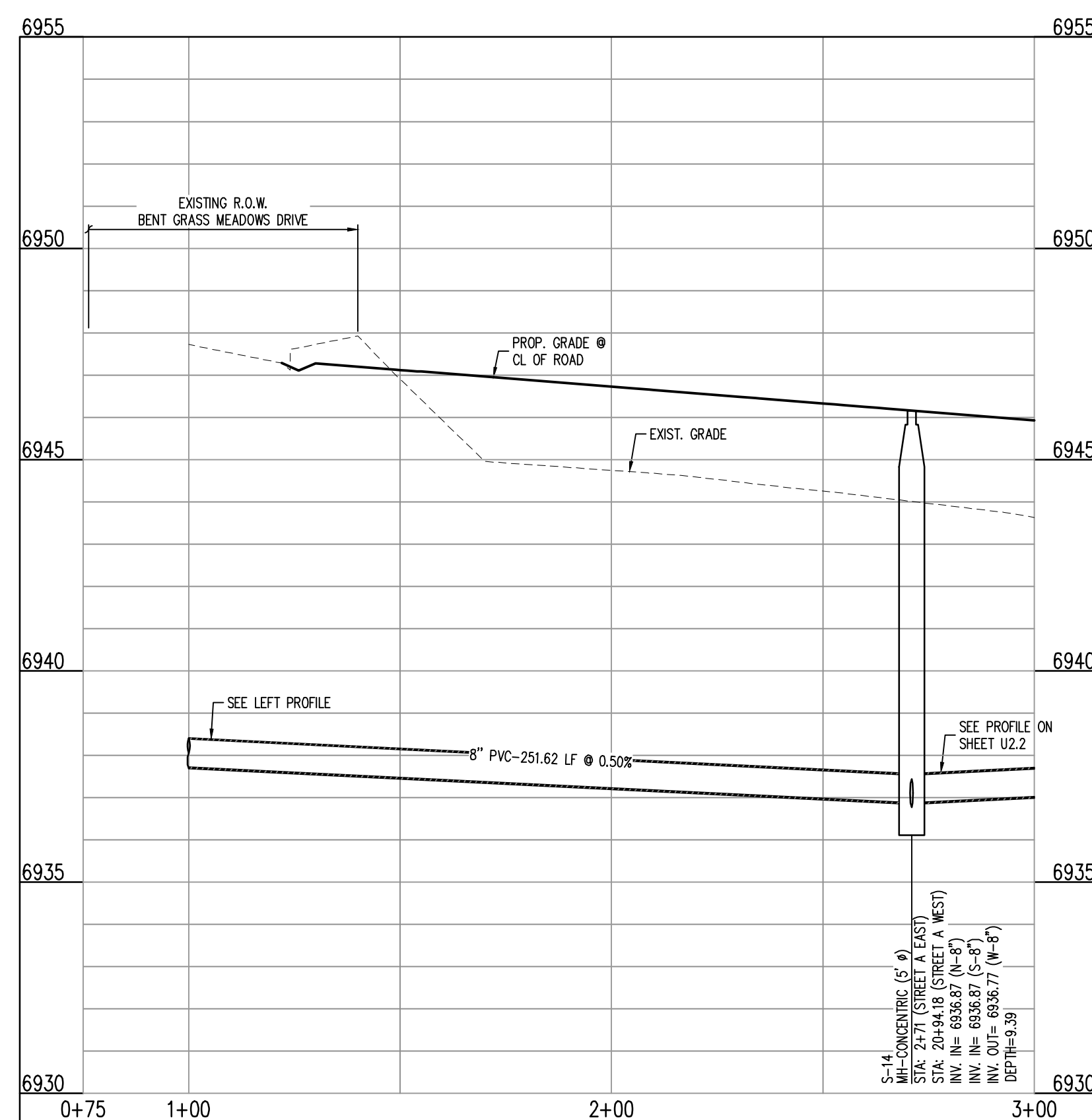


PLAN: 8-INCH SANITARY SEWER (HENZLEE PLACE)  
STA: 1+00.00 - 3+00.00

SEE SHEET U2.6

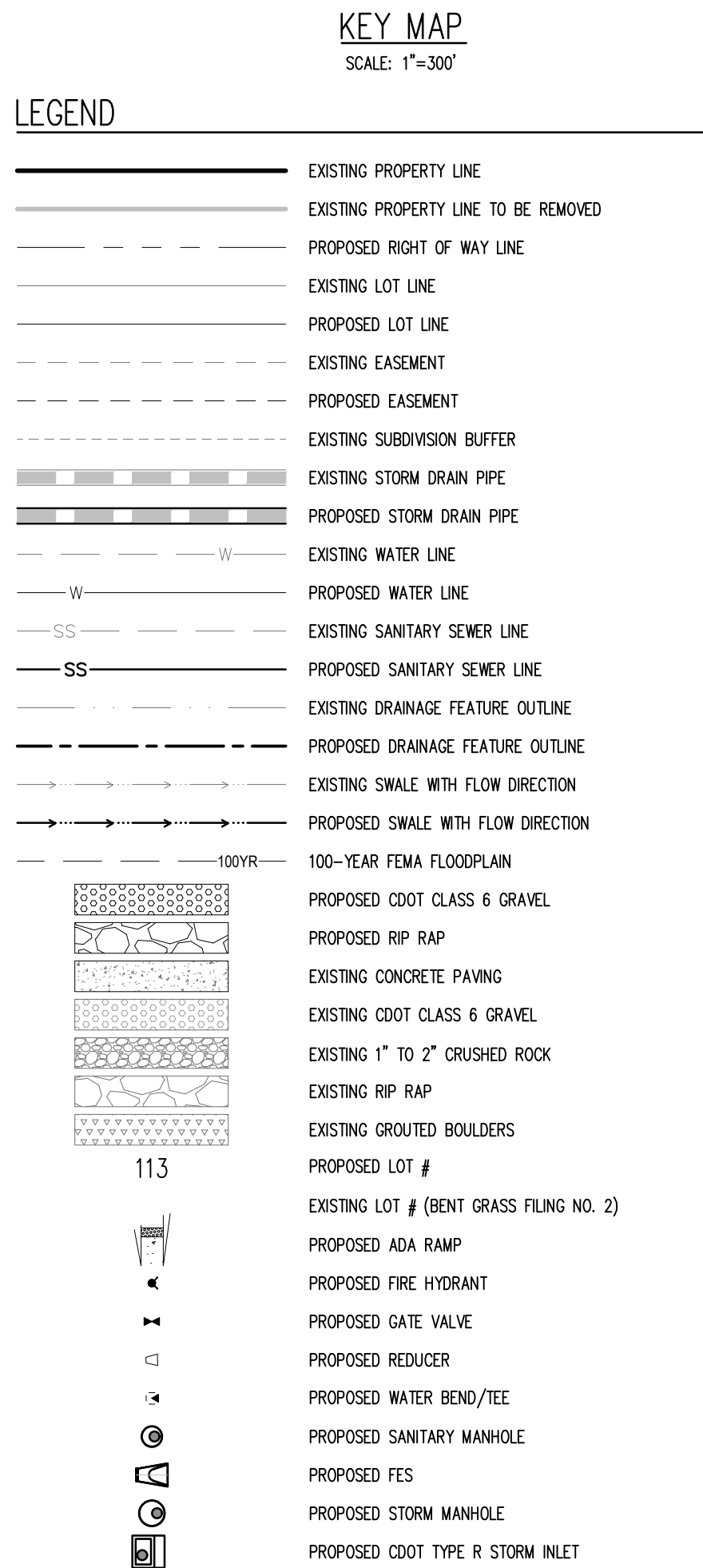
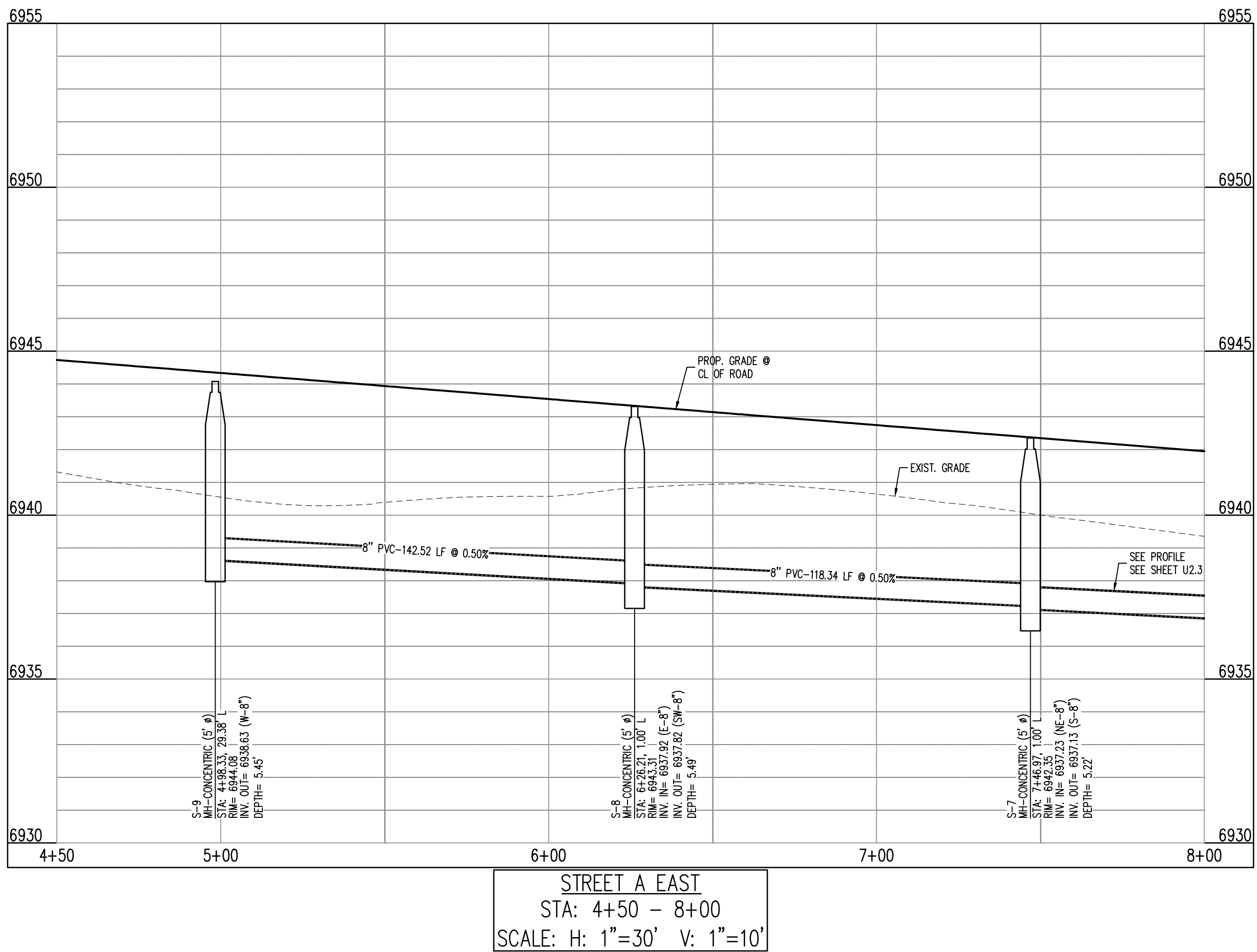
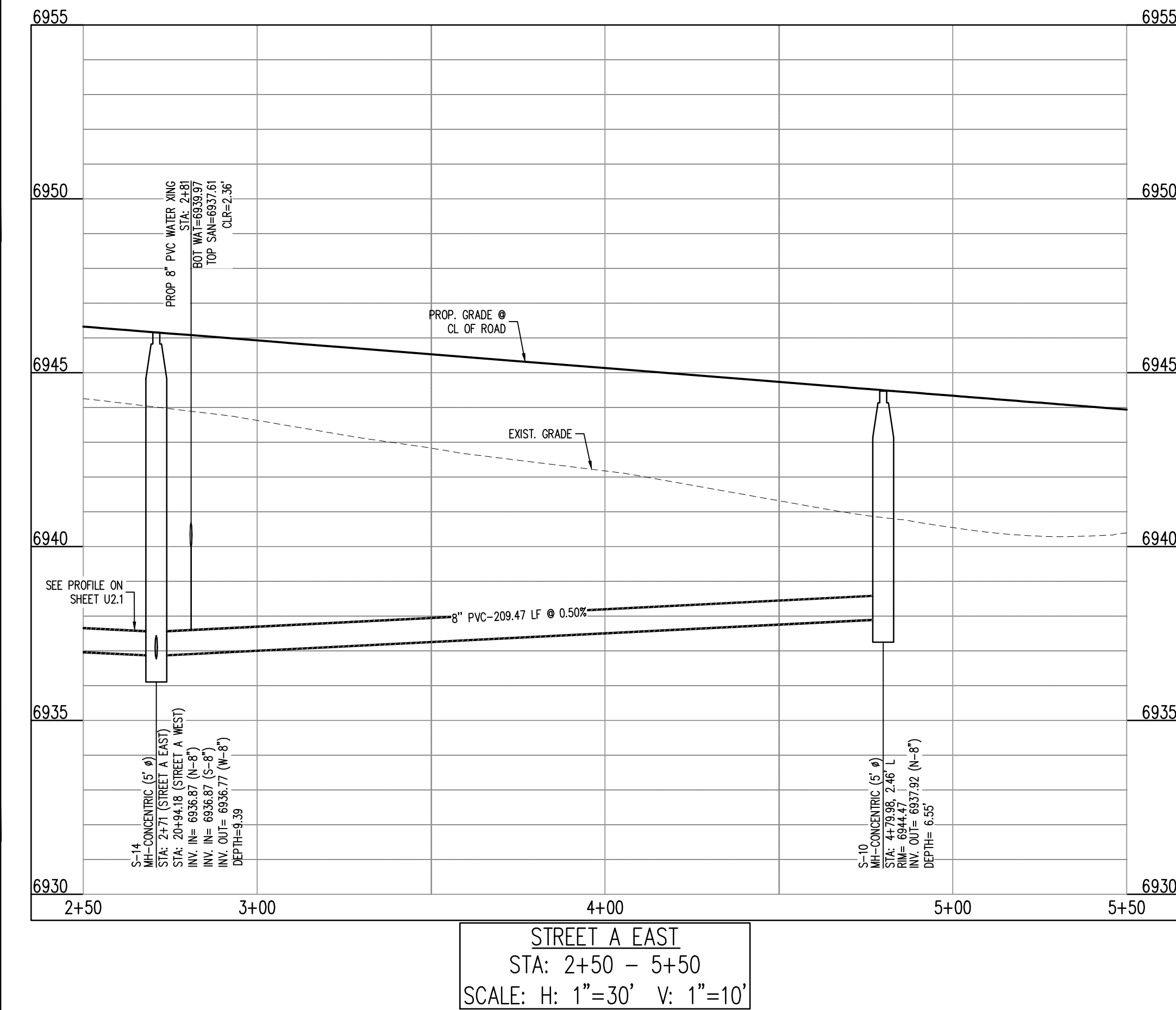


STREET C  
STA: 0+75 - 2+00  
SCALE: H: 1"=30' V: 1"=10'



STREET A EAST  
STA: 0+75 - 3+00  
SCALE: H: 1"=30' V: 1"=10'





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1155 Kelly Johnson Blvd., Suite 305  
Colorado Springs, CO 80920  
719.900.7220  
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# CHALLENGER HOMES

WATER & WASTEWATER CONSTRUCTION PLANS  
FALCON MEADOWS AT BENT GRASS FILING NO. 1  
FOR  
CHALLENGER COMMUNITIES, LLC  
  
BENT GRASS MEADOWS DRIVE & MERIDIAN ROAD  
FALCON, CO 80831 - EL PASO COUNTY

[illegible]

Project No: CLH000018

Drawn By: CMWJ

Checked By: RGD

Date: 03/26/2021

## WASTEWATER PLAN & PROFILE

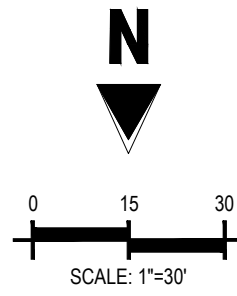


Know what's **below**  
**Call** before you

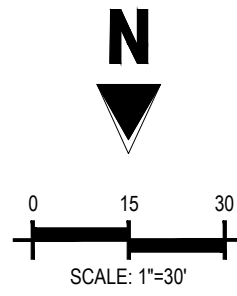
## U2.2

Sheet 12 of 21

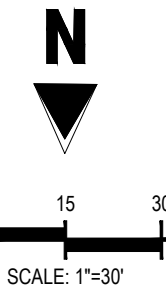
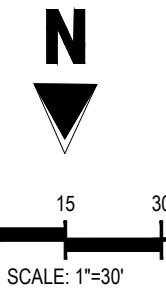




**SEE RIGHT PLAN VIEW**



**SEE RIGHT PLAN VIEW**



## LEGEND

- ## LEGI

1. ALL STATION CALLOUTS ARE TO THE CENTERLINE OF ROADWAY, THEREFORE MANHOLE RIMS MAY APPEAR TO NOT MEET FINISH GRADE
2. CONTRACTOR TO READ AND BECOME FAMILIAR WITH THE WOODMEN HILLS METROPOLITAN DISTRICT WATER AND WASTEWATER SYSTEM STANDARD SPECIFICATIONS CRITERIA MANUAL AND DETAILS PRIOR TO BEGINNING CONSTRUCTION.

- ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983. THE BEARING OF THE LINE BETWEEN THE SOUTHWEST CORNER OF SECTION 1, T13S, R65W AND THE WEST QUARTER CORNER SECTION 1, T13S, R65W IS N00°13'46"W AND MONUMENTED AS SHOWN:

THE SOUTHWESTERLY CORNER OF LOT 1 WOODMEN HILLS FILING NO. 4. MONUMENTED BY A  
YELLOW PLASTIC SURVEYORS CAP ON A NO. 4 REBAR L<sub>S</sub># 24954 ELEVATION = 6947.67

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE FIELD LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.

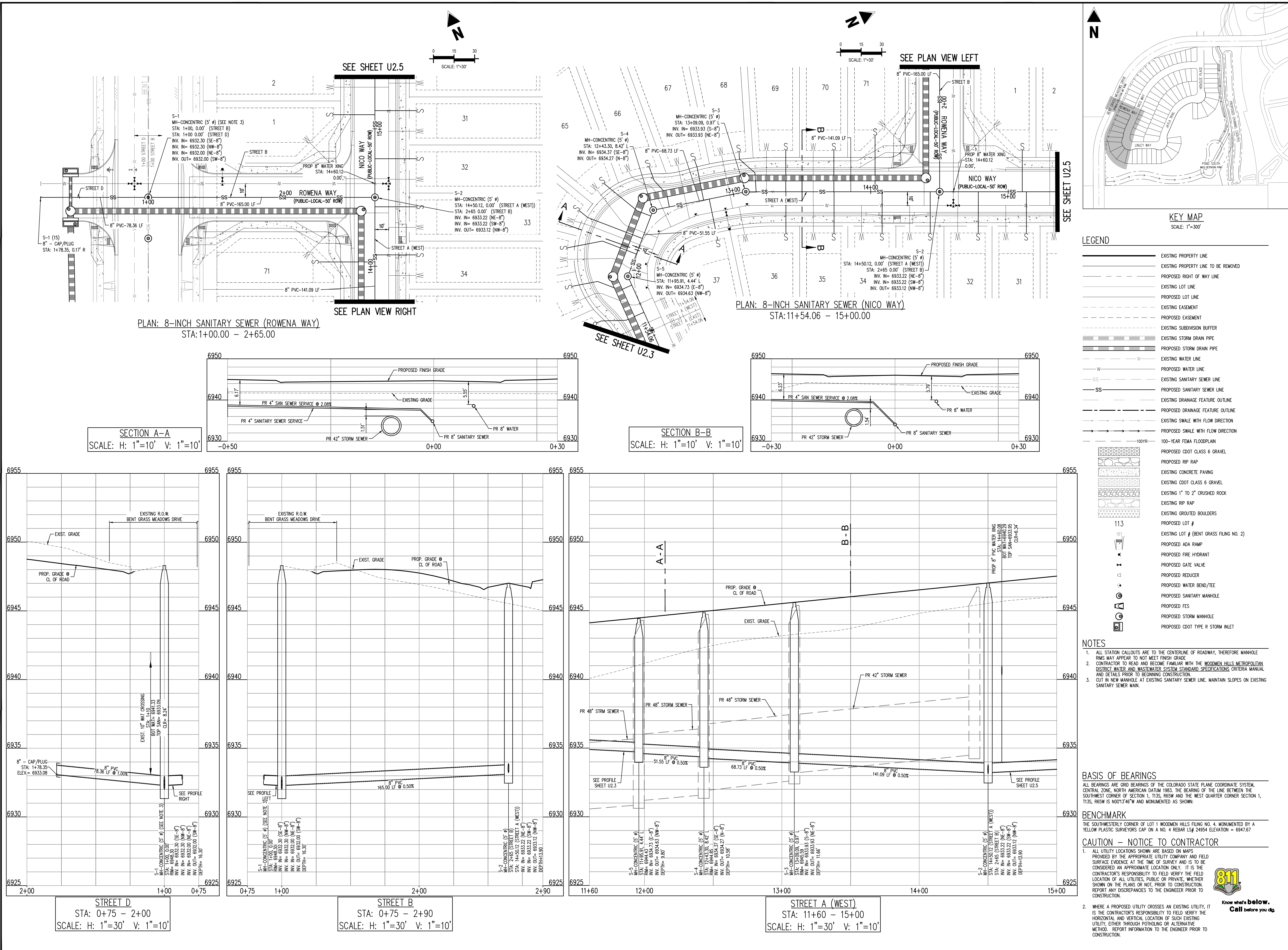
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- Know what's **below**  
Call before you

Project No:	CLH000018
Drawn By:	CMWJ
Checked By:	RGD
Date:	06/23/2021



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Project No:	CLH000018
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Date:	03/26/2021





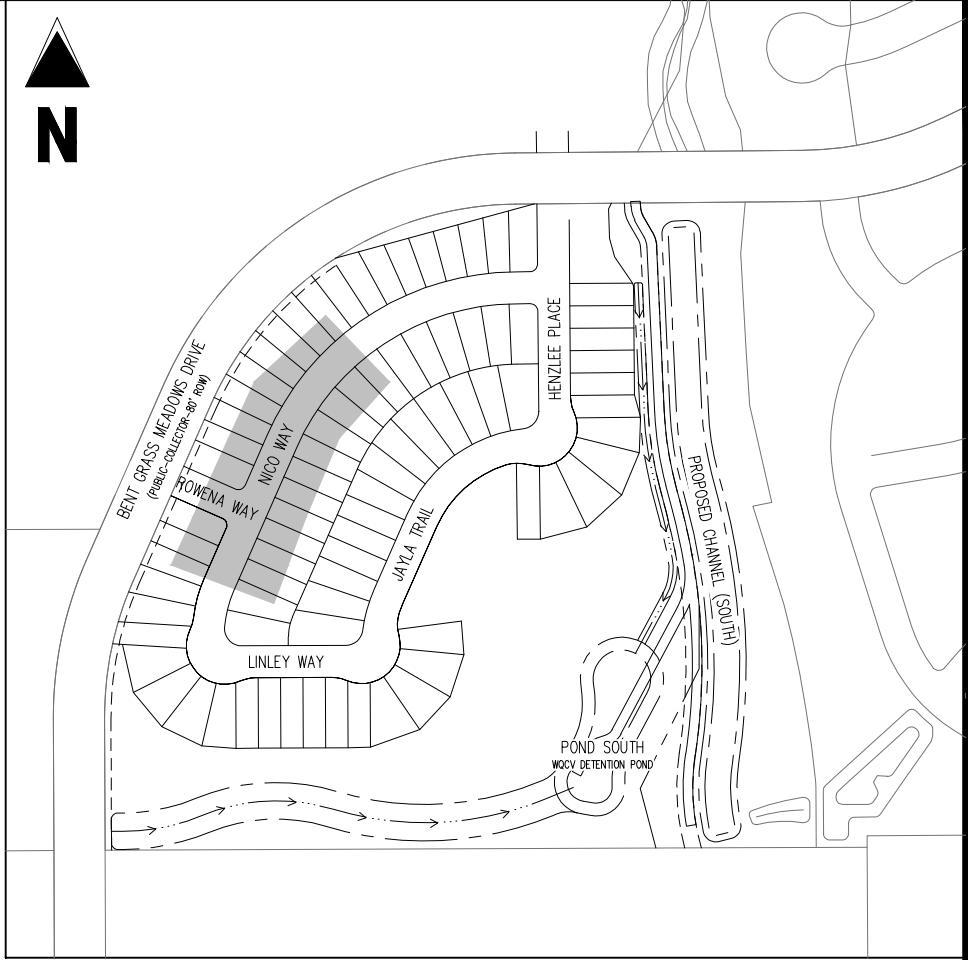
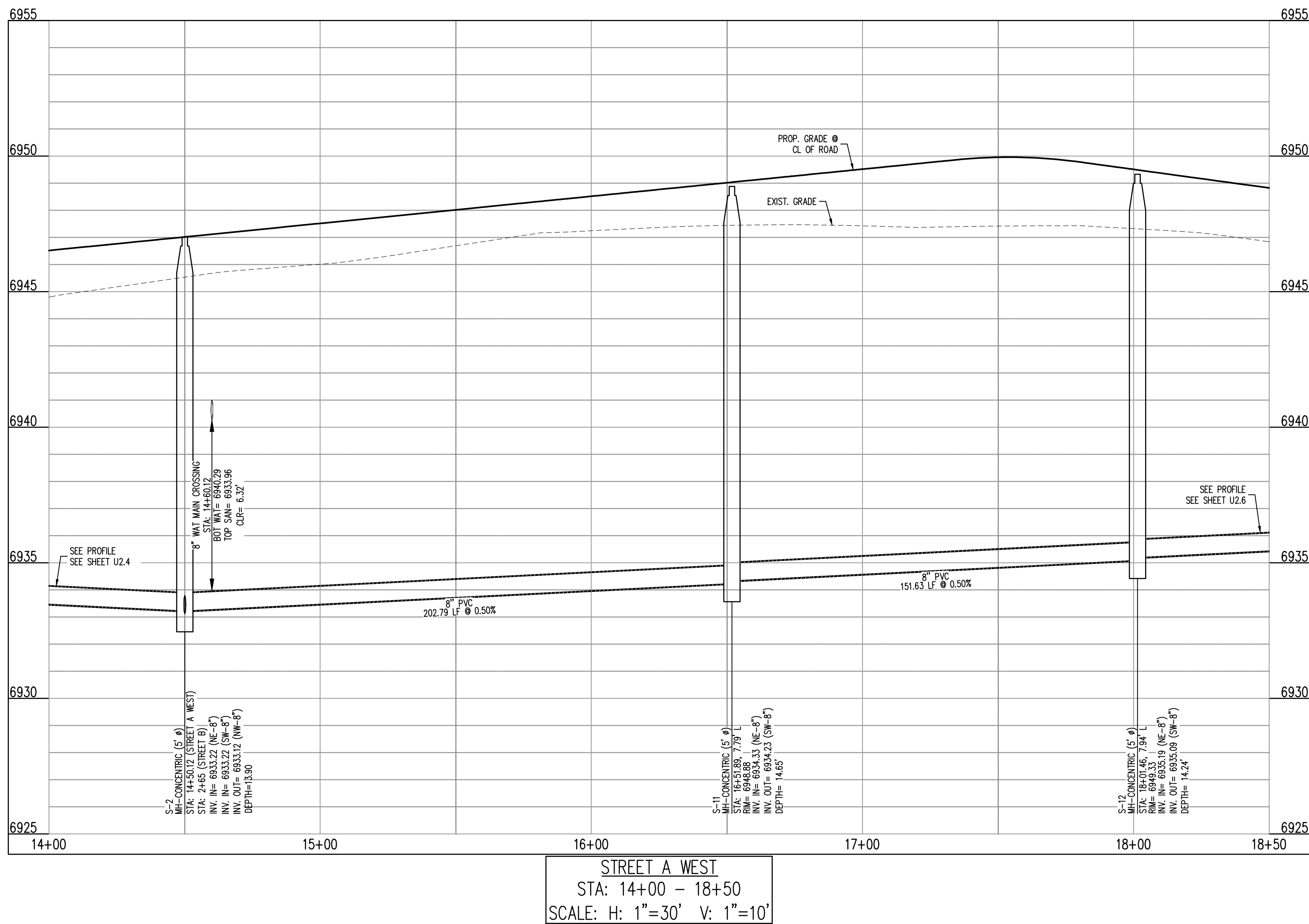
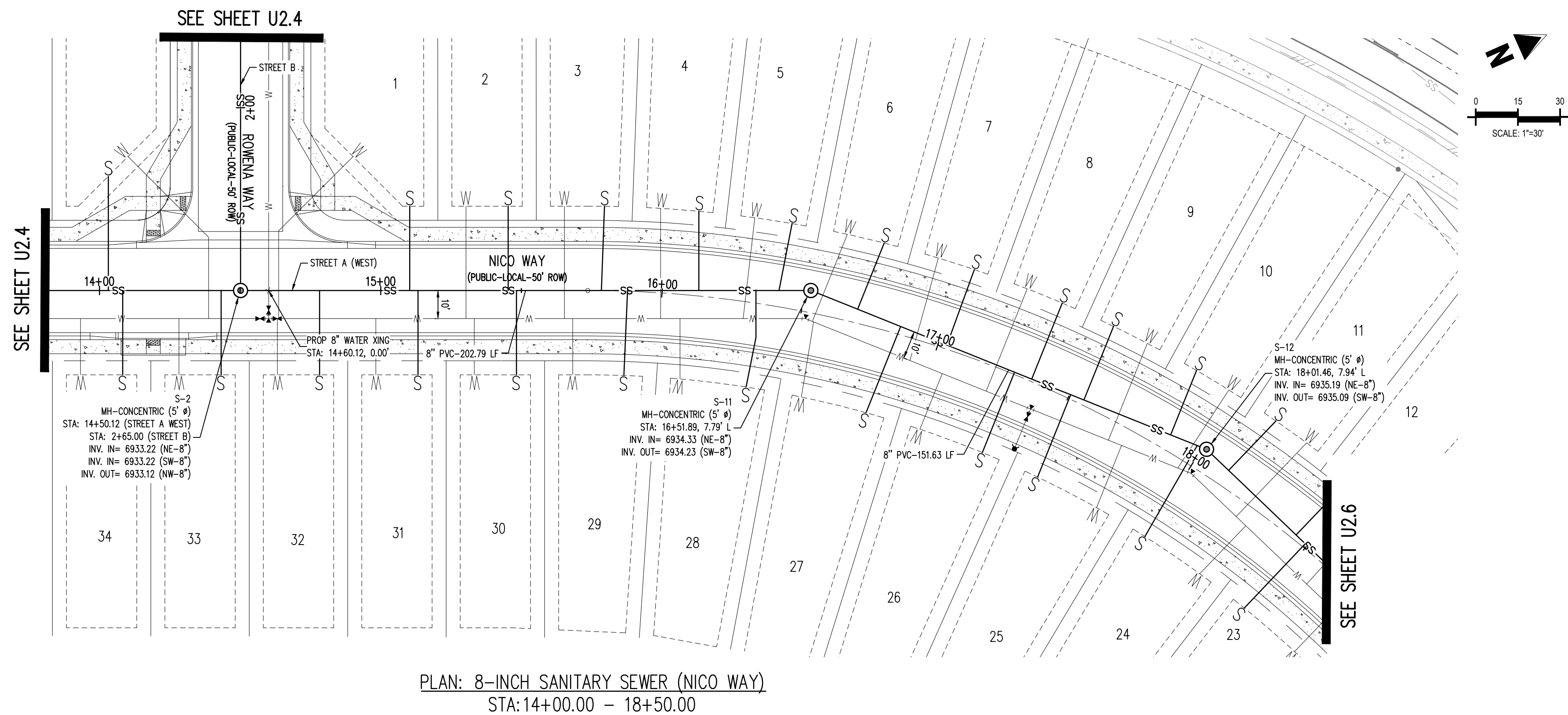
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Project No:	CLH000018
Drawn By:	CMWJ
Checked By:	RGD
Date:	03/26/2021

## WASTEWATER PLAN & PROFILE

# U2.5

Sheet 15 of 21



**KEY MAP**  
SCALE: 1"=300'

### LEGEND

- |  |  |
|--|--|
|  | EXISTING PROPERTY LINE                   |
|  | EXISTING PROPERTY LINE TO BE REMOVED     |
|  | PROPOSED RIGHT OF WAY LINE               |
|  | EXISTING LOT LINE                        |
|  | PROPOSED LOT LINE                        |
|  | EXISTING EASEMENT                        |
|  | PROPOSED EASEMENT                        |
|  | EXISTING SUBDIVISION BUFFER              |
|  | EXISTING STORM DRAIN PIPE                |
|  | PROPOSED STORM DRAIN PIPE                |
|  | EXISTING WATER LINE                      |
|  | PROPOSED WATER LINE                      |
|  | EXISTING SANITARY SEWER LINE             |
|  | PROPOSED SANITARY SEWER LINE             |
|  | EXISTING DRAINAGE FEATURE OUTLINE        |
|  | PROPOSED DRAINAGE FEATURE OUTLINE        |
|  | EXISTING SWALE WITH FLOW DIRECTION       |
|  | PROPOSED SWALE WITH FLOW DIRECTION       |
|  | 100-YEAR FEMA FLOODPLAIN                 |
|  | PROPOSED CDOT CLASS 6 GRAVEL             |
|  | PROPOSED RIP RAP                         |
|  | EXISTING CONCRETE PAVING                 |
|  | EXISTING CDOT CLASS 6 GRAVEL             |
|  | EXISTING 1" TO 2" CRUSHED ROCK           |
|  | EXISTING RIP RAP                         |
|  | EXISTING GROUTED BOULDERS                |
|  | PROPOSED LOT #                           |
|  | EXISTING LOT # (BENT GRASS FILING NO. 2) |
|  | PROPOSED ADA RAMP                        |
|  | PROPOSED FIRE HYDRANT                    |
|  | PROPOSED GATE VALVE                      |
|  | PROPOSED REDUCER                         |
|  | PROPOSED WATER BEND/TEE                  |
|  | PROPOSED SANITARY MANHOLE                |
|  | PROPOSED FES                             |
|  | PROPOSED STORM MANHOLE                   |
|  | PROPOSED CDOT TYPE R STORM INLET         |

## NOTES

1. ALL STATION CALLOUTS ARE TO THE CENTERLINE OF ROADWAY, THEREFORE MANHOLE RIMS MAY APPEAR TO NOT MEET FINISH GRADE
2. CONTRACTOR TO READ AND BECOME FAMILIAR WITH THE WOODMEN HILLS METROPOLITAN DISTRICT WATER AND WASTEWATER SYSTEM STANDARD SPECIFICATIONS CRITERIA MANUAL AND DETAILS PRIOR TO BEGINNING CONSTRUCTION.

## BASIS OF BEARINGS

ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983. THE BEARING OF THE LINE BETWEEN THE SOUTHWEST CORNER OF SECTION 1, T13S, R65W AND THE WEST QUARTER CORNER SECTION 1, T13S, R65W IS  $N00^{\circ}13'46''W$  AND MONUMENTED AS SHOWN:

## BENCHMARK

THE SOUTHWESTERLY CORNER OF LOT 1 WOODMEN HILLS FILING NO. 4, MONUMENTED BY A YELLOW PLASTIC SURVEYORS CAP ON A NO. 4 REBAR LS# 24954 ELEVATION = 6947.67

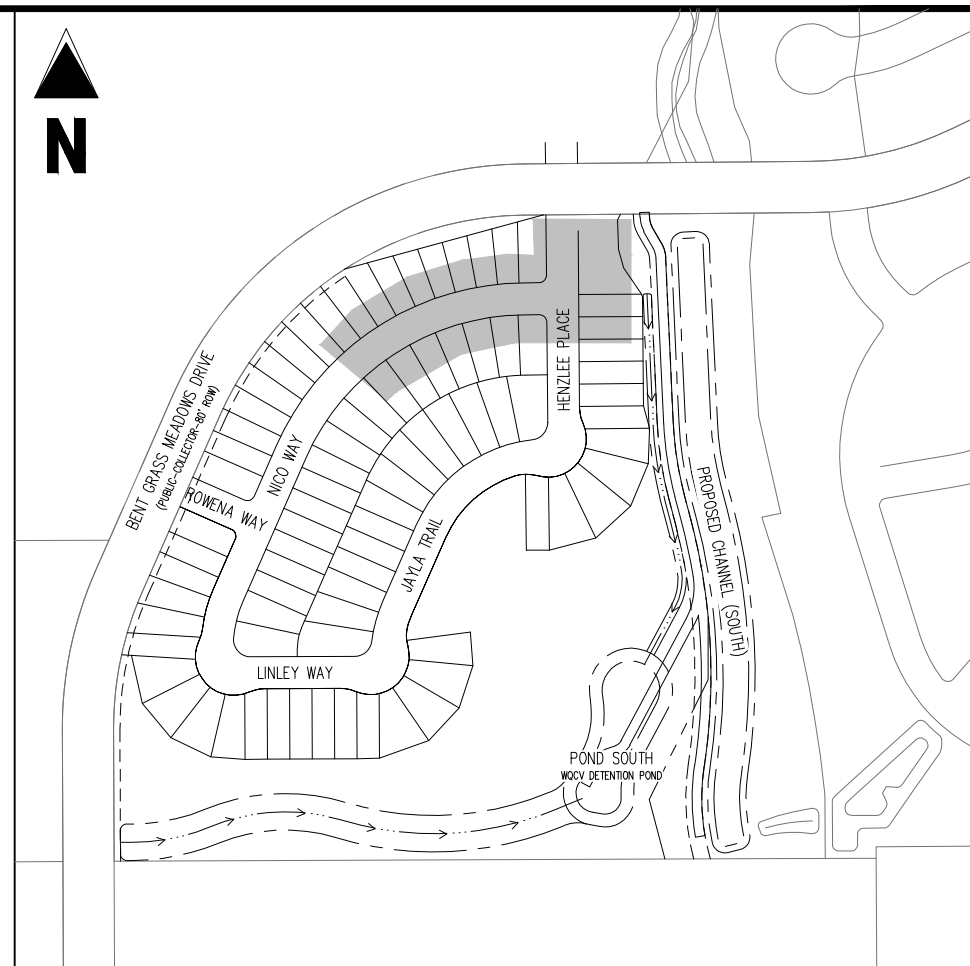
## CAUTION – NOTICE TO CONTRACTOR

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE FIELD LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.



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





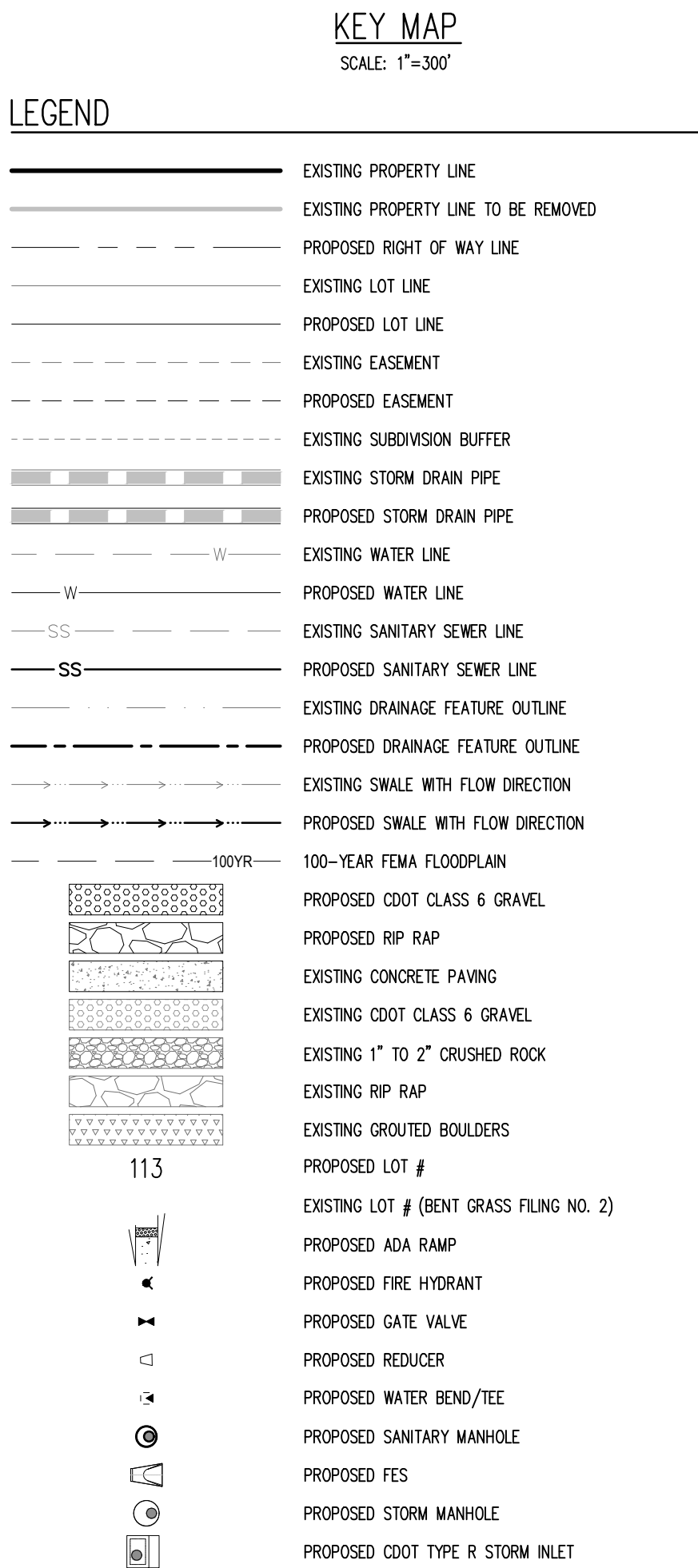
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Colorado Springs, CO 80920  
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# CHALLENGER HOMES

CHALLENGER COMMUNITIES, LLC

BENT GRASS MEADOWS DRIVE & MERDIAN ROAD  
FALCON, CO 80831 - EL PASO COUNTY



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Know what's below.  
Call before you dig.

[illegible]

Project No:	CLH000018
Drawn By:	CMWJ
Checked By:	RGD
Date:	03/26/2021

WASTEWATER PLAN &amp; PROFILE

Sheet 16 of 21





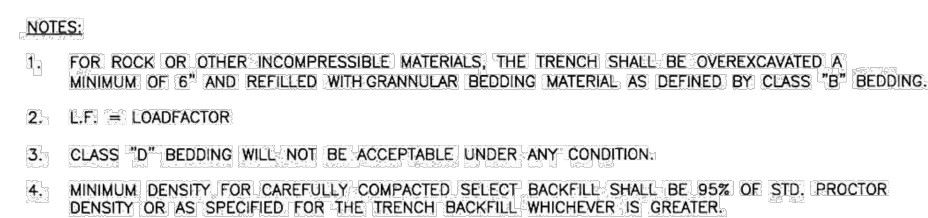




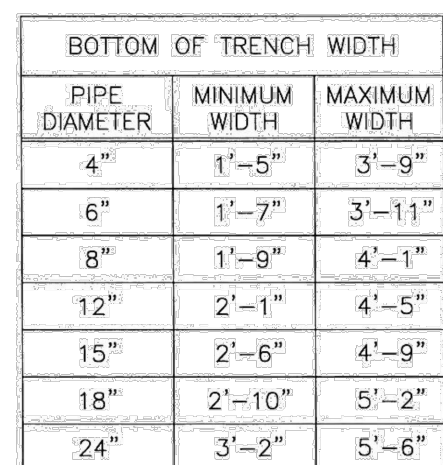








Drawn: GCM	Revised:	 <b>WOODMEN HILLS</b> WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS	WW-1
Date: JAN 2011	Revised:		
Scale: N.T.S.	Revised:		

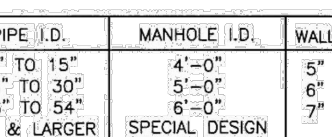


ALL PIPE EMBEDMENT SHALL BE IMPORTED CLASS B BEDDING UNLESS OTHERWISE DIRECTED.

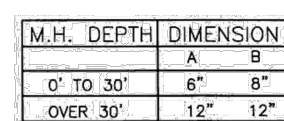
AN OVER EXCAVATED TRENCH SHALL BE REFILLED AND THOROUGHLY COMPACTED UNDER THE DIRECTION OF THE DISTRICT.

UNDER NO CIRCUMSTANCES WILL PIPE BE LAID IN A PROPOSED FILL AREA PRIOR TO IT BEING COMPLETELY FILLED. THE FILL WILL BE PLACED FIRST TO PROPOSED GRADE AND COMPACTED AS REQUIRED. A TRENCH THEN WILL BE EXCAVATED AND THE PIPE INSTALLED IN THE USUAL MANNER.

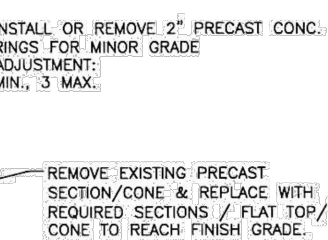
Drawn: GCM	Revised:	 <b>WOODMEN HILLS</b> METROPOLITAN DISTRICT WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS	WW-2
Date: JAN 2011	Revised:		
Scale: N.T.S.	Revised:		



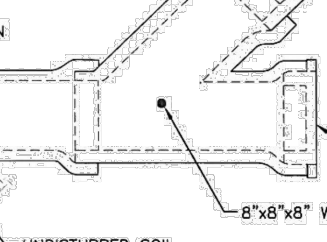
Drawn: GDM	Revised:	 <b>WOODMEN HILLS</b> METROPOLITAN DISTRICT A CITY OF COLORADO	WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS	<b>WW-3</b>
Date: JAN 2011	Revised:			
Scale: N.T.S.	Revised:			



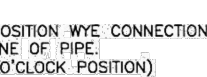
Drawn: GJM	Revised:	 <b>WOODMEN HILLS</b> METROPOLITAN DISTRICT	WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS	<b>WW-4</b>
Date: JAN 2011	Revised:			
Scale: N.T.S.	Revised:			



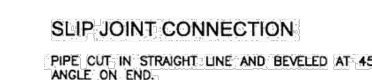
Drawn: JGM	Revised:	 <b>WOODMEN HILLS</b> METROPOLITAN DISTRICT	WATER & WASTEWATER SYSTEM	WW-5
Date: JAN 2011	Revised:		STANDARD SPECIFICATIONS	
Scale: N.T.S.	Revised:			



Drawn: GDM	Revised:	 <b>WOODMEN HILLS</b> METROPOLITAN DISTRICT	WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS	<b>WW-6</b>
Date: JAN 2011	Revised:			
Drawn: N.T.S.	Revised:			



Drawn: GCM	Revised:	 <b>WOODMEN HILLS</b> METROPOLITAN DISTRICT	WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS	<b>WW-7</b>
Date: JAN 2011	Revised:			
Scale: N.T.S.	Revised:			



Drawn: GCM	Revised:	 <b>WOODMEN HILLS</b> METROPOLITAN DISTRICT	WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS	<b>WW-11</b>
Date: JAN 2011	Revised:			
Scale: N.T.S.	Revised:			

GENERAL NOTES

1. ALL PIPE CUTTING EQUIPMENT AND PIPE CUTS MUST BE APPROVED BY THE WATER AND SANITATION DISTRICT INSPECTOR.
2. ALL PIPE ENDS TO BE USED IN INSTALLATION SHALL BE DRESSED SMOOTH TO THE SATISFACTION OF THE INSPECTOR PRIOR TO INSTALLATION.
3. AT THE REQUEST OF THE CONTRACTOR MAKING THE INSTALLATION, THE DISTRICT WILL MAKE PIPE CUTS, PROVIDING THE CURRENT FEE PER CUT IS PAID AND 24-HOUR NOTICE IS GIVEN (THE CURRENT FEE IS SUBJECT TO CHANGE).
4. ALL CIP DELIVERED TO JOB SITE MUST BE NEW MATERIAL.

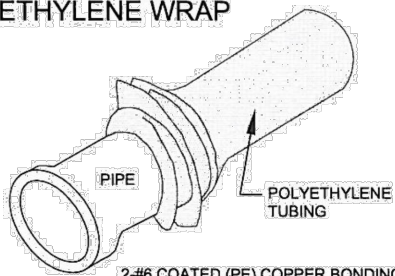
1)Challenger Homes, Inc.(CO) @ Paso County-CUH000118-Bent Grass Filing 30C4055-CDUTL CUH18 US1-Details.dwg - Caleb Johnson - 3/26/2021



FIELD INSTALLATION OF POLYETHYLENE WRAP

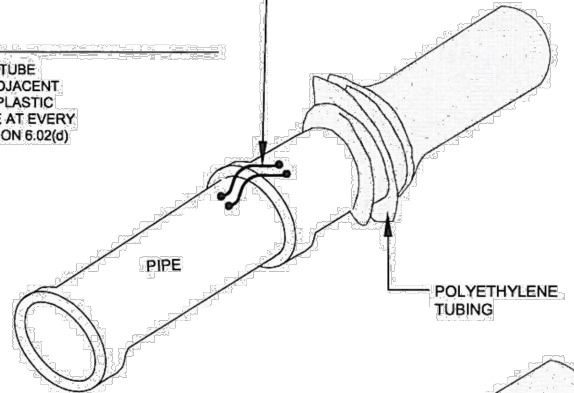
STEP 1:

PLACE TUBE OF POLYETHYLENE MATERIAL ON PIPE PRIOR TO LOWERING IT INTO TRENCH.



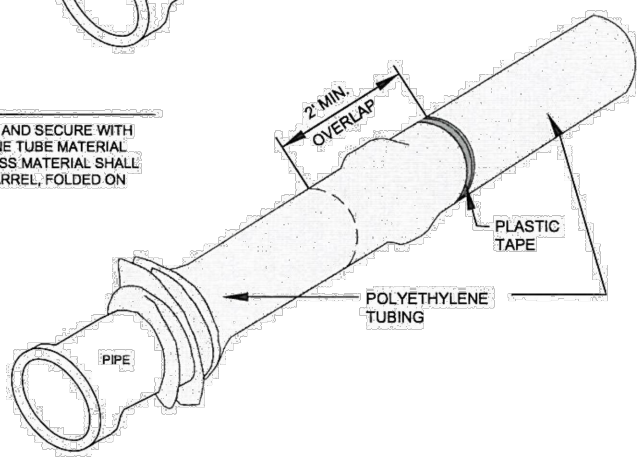
STEP 2:

PULL TUBE OVER THE LENGTH OF THE PIPE. TAPE TUBE TO END AT JOINT. FOLD MATERIAL AROUND THE ADJACENT SPLIT END AND WRAP WITH TAPE TO HOLD THE PLASTIC TUBE IN PLACE. INSTALL BONDING STRAP OR WIRE AT EVERY JOINT OF PIPE PRIOR TO WRAPPING AS PER SECTION 1206 OF THE STANDARD SPECIFICATIONS.



STEP 3:

OVERLAP FIRST TUBE WITH ADJACENT TUBE AND SECURE WITH PLASTIC ADHESIVE TAPE. THE POLYETHYLENE TUBE MATERIAL COVERING THE PIPE SHALL BE LOOSE. EXCESS MATERIAL SHALL BE NEATLY DRAWN UP AROUND THE PIPE BARREL, FOLDED ON TOP OF PIPE AND TAPED IN PLACE.



POLYETHYLENE PIPE WRAP

Drawn: GGM	Revised:	WOODMEN HILLS	WATER & WASTEWATER SYSTEM	WW-12
Date: JAN 2011	Revised:	METROPOLITAN DISTRICT	STANDARD SPECIFICATIONS	
Scale: N.T.S.	Revised:			

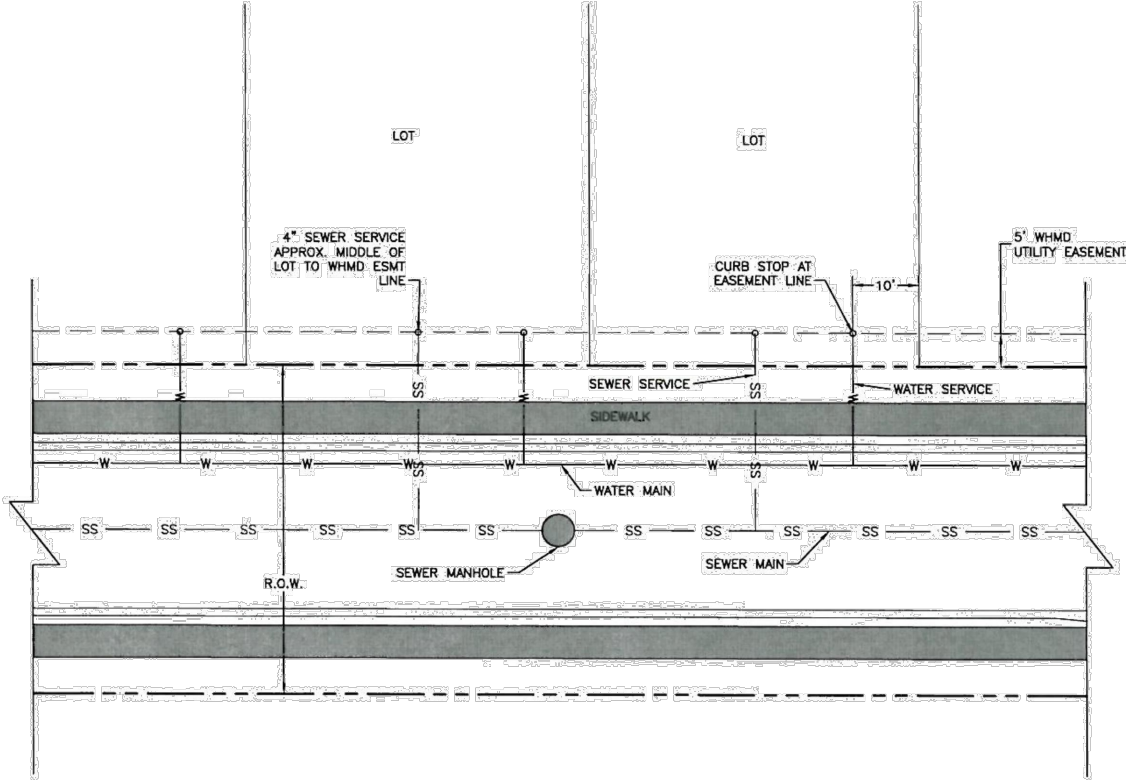
MAXIMUM DEFLECTION  
PER SLIP JOINT OF D.I.P.

PIPE DIAMETER			MFRS. DEF'L	DESIGN DEFLECTION (BOX MAX.)		APPROX. RADIUS FOR DEFLECTING CURVES WITHOUT BENDS		
I.D. (N)	O.D. (IN)	O.D. (FT)		MAX. DEF. DIST.	(1) (2)	(1) (2)	20' L	18' L
4"	4.86"	.400'	5'00"00"	4'00"00"	16"	15"	286'	258'
6"	6.90"	.575'	5'00"00"	4'00"00"	16"	15"	286'	258'
8"	9.05"	.754'	5'00"00"	4'00"00"	16"	15"	286'	258'
10"	11.10"	.922'	5'00"00"	4'00"00"	16"	15"	286'	258'
12"	13.20"	1.100'	5'00"00"	4'00"00"	16"	15"	286'	258'
14"	15.30"	1.275'	3'00"00"	2'24"00"	10"	9"	477'	430'
16"	17.40"	1.450'	3'00"00"	2'24"00"	10"	9"	477'	430'
18"	19.50"	1.625'	3'00"00"	2'24"00"	10"	9"	477'	430'
20"	21.60"	1.800'	3'00"00"	2'24"00"	10"	9"	477'	430'
24"	25.80"	2.150'	3'00"00"	2'24"00"	10"	9"	477'	430'
30"	32.00"	2.666'	2'30"00"	2'00"00"	8"	7"	573'	516'
36"	38.30"	3.192'	2'00"00"	1'36"00"	6"	6"	716'	645'
42"	44.50"	3.708'	2'00"00"	1'36"00"	6"	6"	716'	645'

(1) 20'L = NORMAL 20-FOOT JOINT LAYING LENGTH  
(2) = NORMAL 18-FOOT JOINT LAYING LENGTH

MAXIMUM PIPELINE DEFLECTION DATA

Drawn: GGM	Revised:	WOODMEN HILLS	WATER & WASTEWATER SYSTEM	WW-14
Date: JAN 2011	Revised:	METROPOLITAN DISTRICT	STANDARD SPECIFICATIONS	
Scale: N.T.S.	Revised:			



NOTES:

1. WATER SERVICE TO BE 10' FROM "DOWNSTREAM" PROPERTY LINE AND EXTENDED TO WHMO UTILITY EASEMENT LINE.
2. SEWER SERVICE TO BE PLACED APPROXIMATELY IN THE MIDDLE OF THE LOT AND EXTENDED TO WHMO UTILITY EASEMENT LINE.
3. SERVICES SHALL BE MARKED WITH 2"x4" POST AT TERMINATION POINT FOR LOCATION DURING CONNECTION TO RESIDENCE. POSTS SHALL BE SPRAY-PAINTED BLUE FOR WATER AND GREEN FOR SEWER.

UTILITY SERVICE LOCATIONS

Drawn: GGM	Revised:	WOODMEN HILLS	WATER & WASTEWATER SYSTEM	WW-20
Date: JAN 2011	Revised:	METROPOLITAN DISTRICT	STANDARD SPECIFICATIONS	
Scale: N.T.S.	Revised:			

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CHALLENGER  
HOMES

WATER & WASTEWATER CONSTRUCTION PLANS  
FALCON MEADOWS AT BENT GRASS FILING NO. 1  
FOR

CHALLENGER COMMUNITIES, LLC

BENT GRASS MEADOWS DRIVE & MERIDIAN ROAD  
FALCON, CO 80831 - EL PASO COUNTY

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Project No:	CLH000018
Drawn By:	CMWJ
Checked By:	RGD
Date:	03/26/2021

WASTEWATER DETAIL  
SHEET 2

U3.5

Sheet 21 of 21