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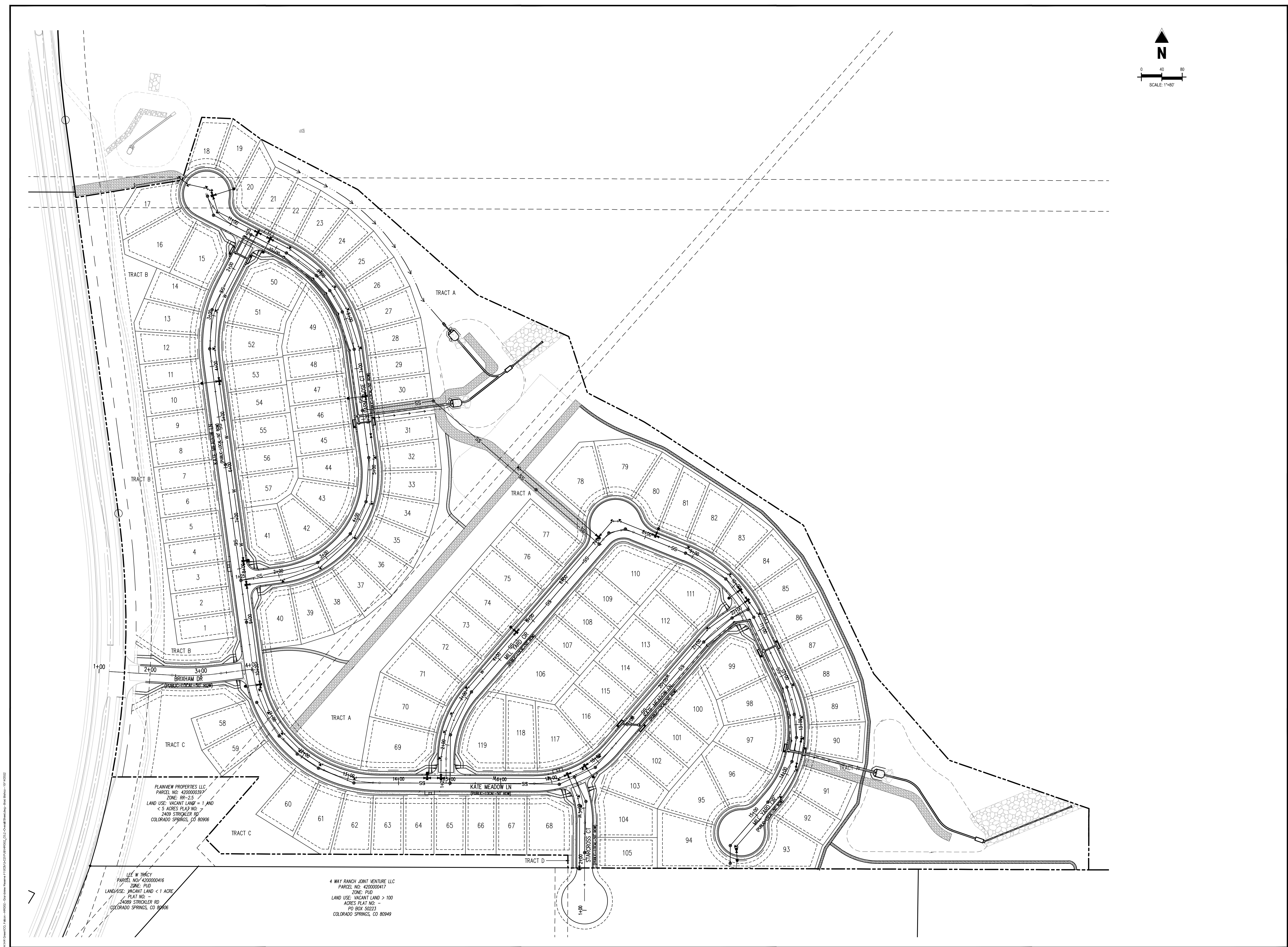


CONSTRUCTION DOCUMENTS  
GRANDVIEW RESERVE FILING NO. 1  
4 SITE INVESTMENTS, LLC (D.R. HORTON)  
SF-22-XXX  
EASTONVILLE RD & REX RD  
EL PASO COUNTY, FALCON, CO 80831

#	Date	Issue / Description	Init.

Project No: HRG02  
Drawn By: JDM  
Checked By: RGD  
Date: 10/14/2022

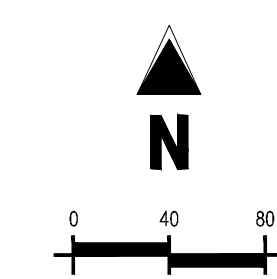
OVERALL SHEET



PLAINVIEW PROPERTIES LLC  
PARCEL NO: 4200000416  
ZONE: PUD  
LAND USE: VACANT LAND < 1 ACRE  
PLAT NO: -  
2409 STROCKLER RD  
COLORADO SPRINGS, CO 80906

LEE W TRACY  
PARCEL NO: 4200000416  
ZONE: PUD  
LAND USE: VACANT LAND < 1 ACRE  
PLAT NO: -  
2409 STROCKLER RD  
COLORADO SPRINGS, CO 80906

4 WAY RANCH JOINT VENTURE LLC  
PARCEL NO: 4200000417  
ZONE: PUD  
LAND USE: VACANT LAND > 100  
ACRES PLAT NO: -  
PO BOX 52223  
COLORADO SPRINGS, CO 80949



**SITE LEGEND**

	PROPERTY BOUNDARY LINE
	ADJACENT PROPERTY BOUNDARY LINE
	RIGHT OF WAY BOUNDARY LINE
	SECTION LINE
	EXISTING ADJACENT LOT LINE
	PROPOSED LOT LINE
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	ROAD CENTERLINE
	PROPOSED RIDGE LINE
	PROPOSED SWALE LINE
	EXISTING SWALE LINE
	FLOODPLAIN BOUNDARY
	EXISTING FLOOD ZONE
	EXISTING FLOOD ZONE SETBACK
	PROPOSED CURB AND GUTTER
	EXISTING CURB AND GUTTER
	PROPOSED SIDEWALK
	PROPOSED TRAIL
	PROPOSED GRAVEL PER EGM TABLE D-7
	RIPRAP OUTFALL PADS
	EXISTING SIGN
	PROPOSED SIGN
	PROPOSED CONCRETE
	EXISTING CONCRETE

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**BASIS OF BEARING**  
THE NORTH LINE OF SECTION 28, TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, EL PASO COUNTY, STATE OF COLORADO BEING MONUMENTED AT EACH END BY A 3-1/2" ALUMINUM SURVEYORS CAP STAMPED "SINC LS 30087" AND ASSUMED TO BEAR S88°47'04"E, A DISTANCE OF 5285.07 FEET.

**BENCHMARK**  
NFS BENCHMARK F 24  
A STANDARD DISK, STAMPED F 24 1929 AND SET IN THE TOP OF A CONCRETE POST PROJECTING ABOUT 6 INCHES ABOVE GROUND, ALONG THE CHICAGO, ROCK ISLAND AND PACIFIC RAILROAD, 52 FEET NORTHWEST OF THE CENTERLINE OF U.S. HIGHWAY 24, 48 FEET SOUTHEAST OF THE CENTERLINE OF THE TRACK.  
NAVD88 ELEVATION = 6866.33

**CAUTION - NOTICE TO CONTRACTOR**

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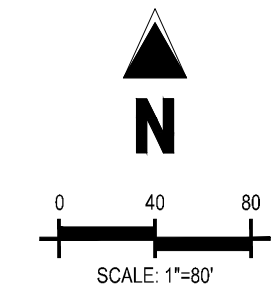
OVERALL HORIZONTAL CONTROL



PLAINVIEW PROPERTIES LLC  
PARCEL NO: 4200000397  
ZONE: RR-2.5  
LAND USE: VACANT LAND  $\leq$  1 ACRE  
PLAT NO: 2409 STRICKLER RD  
COLORADO SPRINGS, CO 80906

KÉE W. JRACY  
PARCEL NO: 4200000416  
ZONE: PUD  
LAND USE: VACANT LAND  $<$  1 ACRE  
PLAT NO: 2409 STRICKLER RD  
COLORADO SPRINGS, CO 80906

4 WAY RANCH JOINT VENTURE LLC  
PARCEL NO: 4200000417  
ZONE: PUD  
LAND USE: VACANT LAND  $>$  100 ACRES  
PLAT NO: 2409 STRICKLER RD  
PID BOX 50223  
COLORADO SPRINGS, CO 80949



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**D.R. HORTON**  
*America's Builder*

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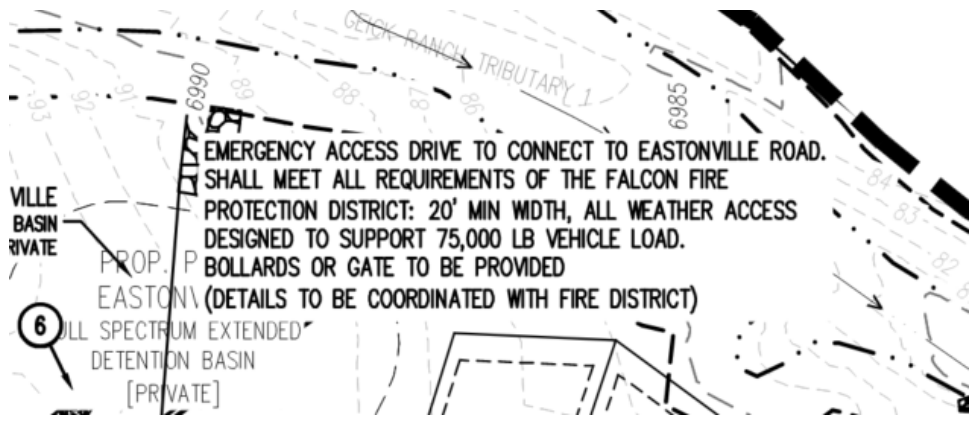
Project No: HRG02  
Drawn By: JDM  
Checked By: RGD  
Date: 10/14/2022

KEY MAP

**C1.0**  
Sheet 5 of 29

REVISED AS REQUESTED

Provide P&P for the emergency Access Road meeting criteria noted in the PUDSP plan



REVISED AS REQUESTED

Verify and update the layout so that a Fire Apparatus can navigate the turn.

REVISED AS REQUESTED

Staff is assuming this also serves as emergency access for the southeast portion of Filing 1. Provide P&P

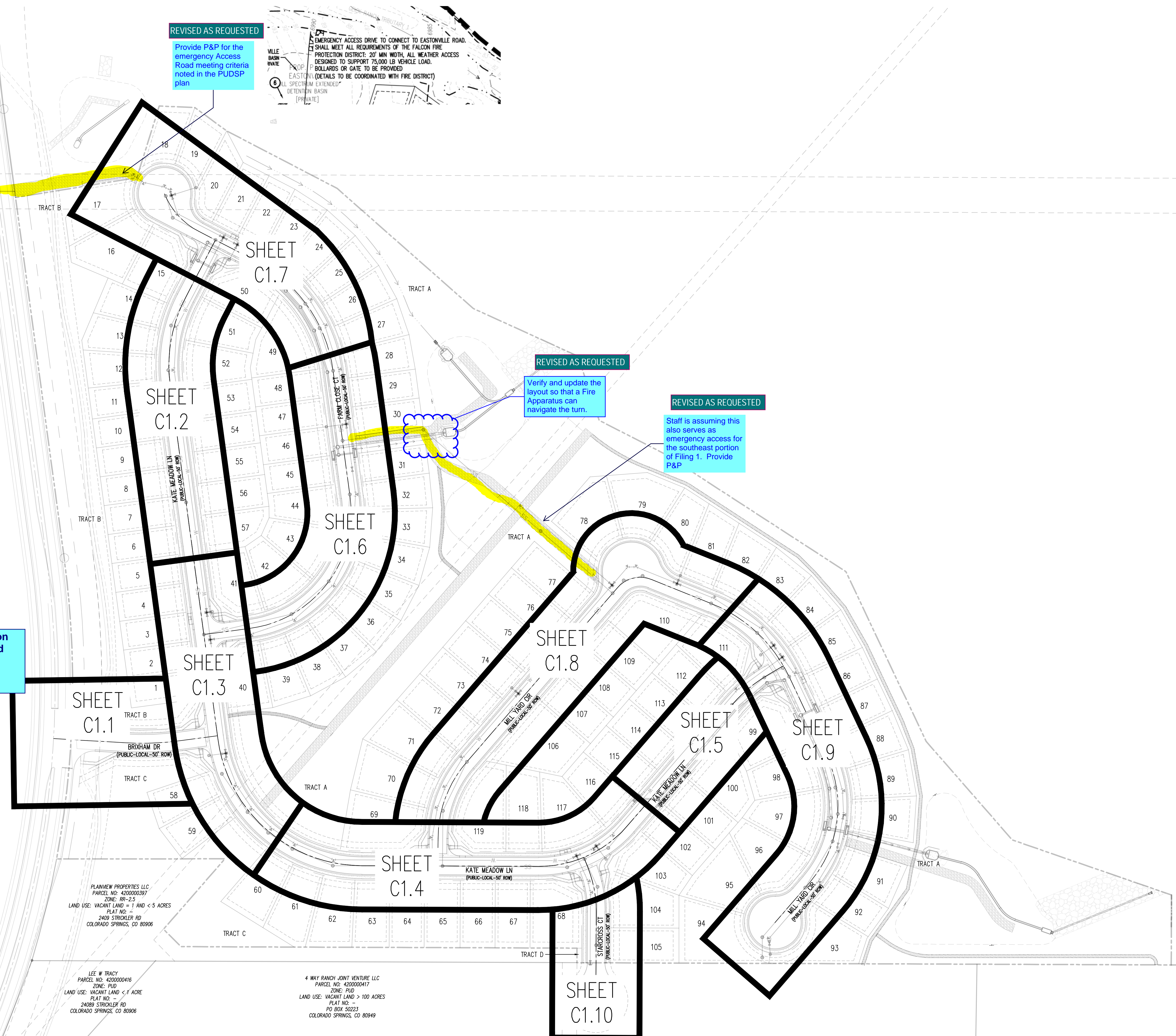
Provide street construction plans for Eastonville Road and update the Financial Assurance Estimate to include the quantities.

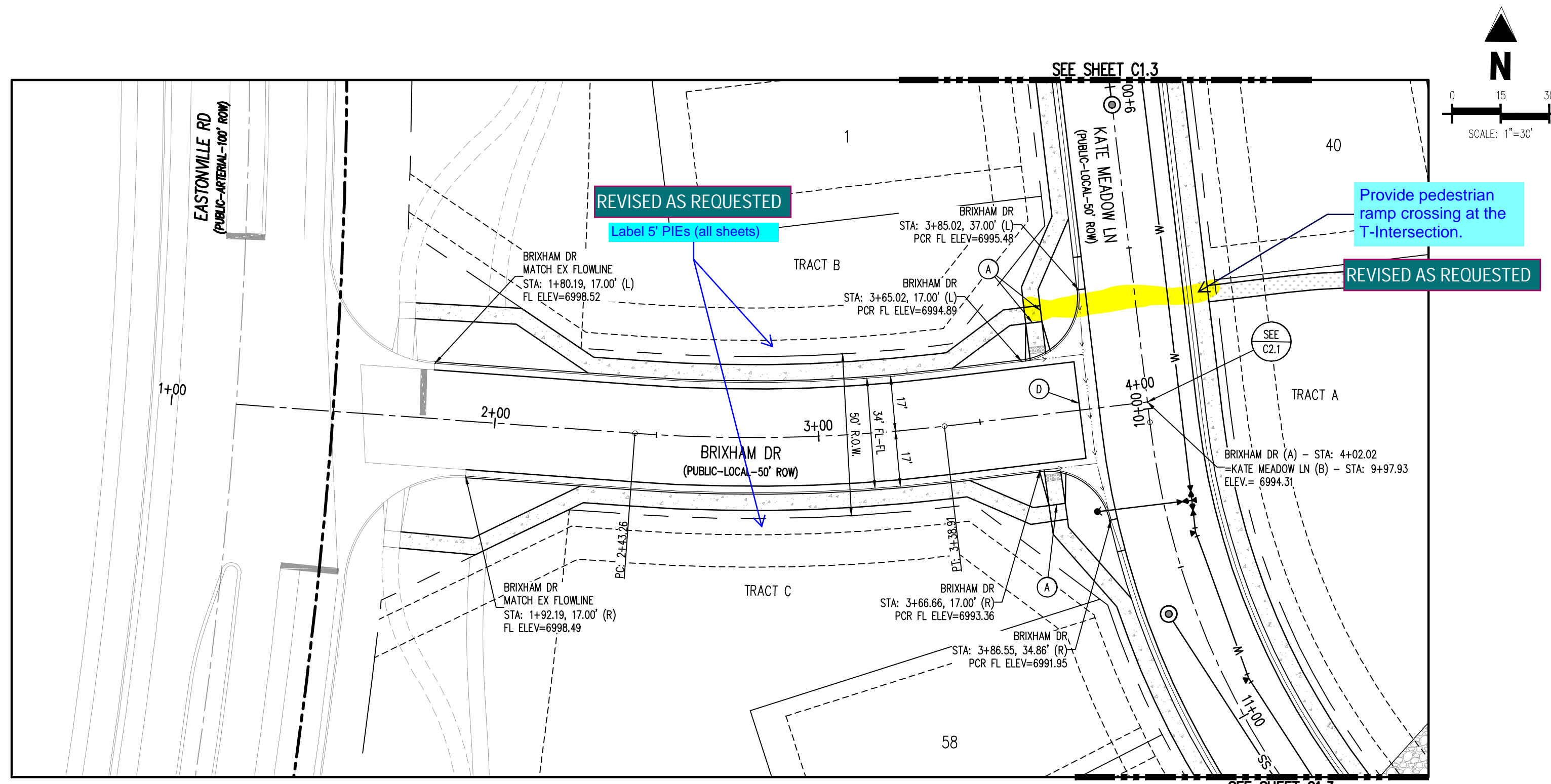
10/14/2022 10:14 AM: C:\Users\Galloway\OneDrive - Galloway US Inc\Documents\Grandview Reserve\Sheet C1.0.dwg

FLANVIEW PROPERTIES LLC  
PARCEL NO: 4200000397  
ZONE: RR-2.5  
LAND USE: VACANT LAND = 1 AND < 5 ACRES  
PLAT NO:  
2409 STRICKLER RD  
COLORADO SPRINGS, CO 80906

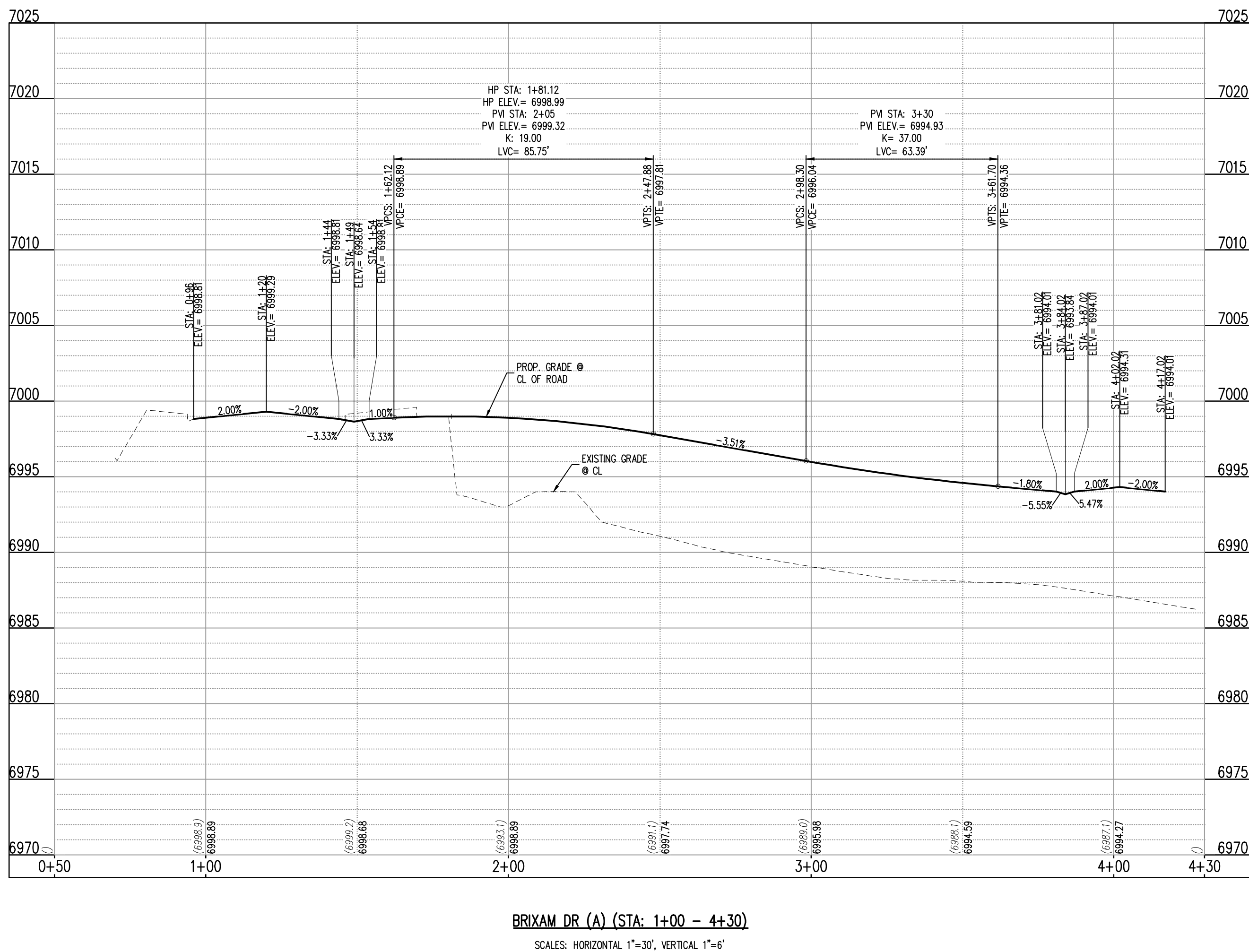
LEE W TRACY  
PARCEL NO: 4200000416  
ZONE: PUD  
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PLAT NO:  
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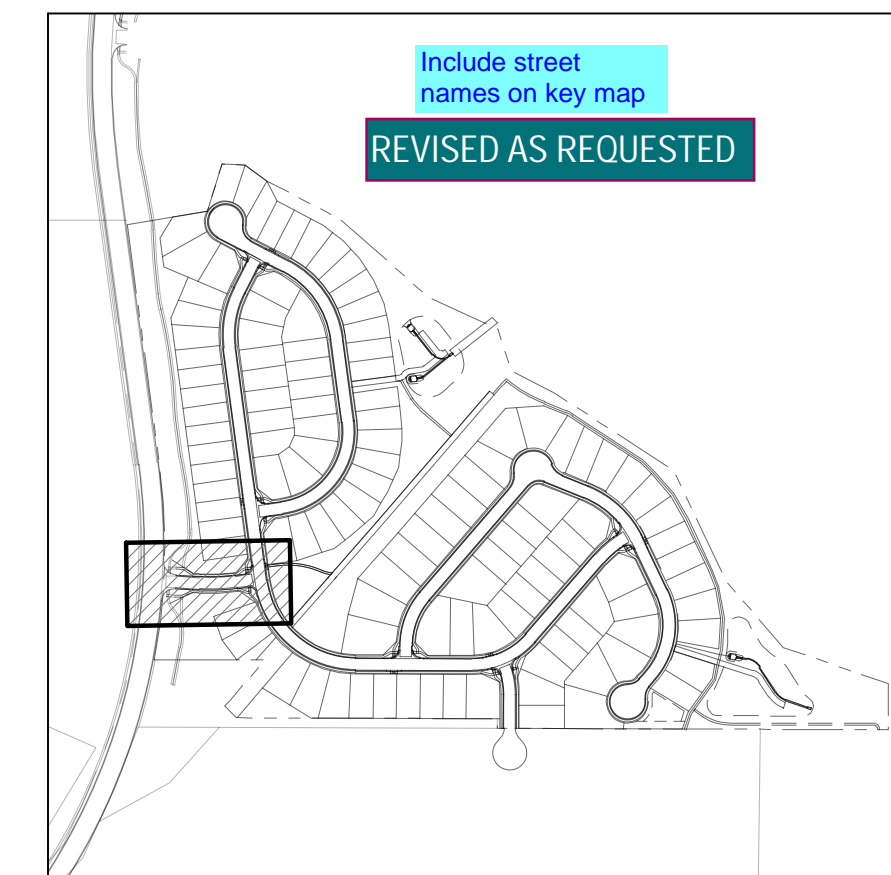




BRIXHAM DR (A) - PUBLIC 50' R.O.W.  
25 MPH DESIGN SPEED (LOCAL)  
SCALE: 1"=30'



BRIXHAM DR (A) (STA: 1+00 - 4+30)  
SCALE: HORIZONTAL 1"=30', VERTICAL 1"=6'



KEYMAP  
SCALE: 1"=500'

#### SITE LEGEND

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- ADJACENT PROPERTY BOUNDARY LINE
- RIGHT OF WAY BOUNDARY LINE
- SECTION LINE
- EXISTING ADJACENT LOT LINE
- PROPOSED LOT LINE
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- PROPOSED SWALE LINE
- EXISTING SWALE LINE
- FLOODPLAIN BOUNDARY
- EXISTING FLOOD ZONE
- EXISTING FLOOD ZONE SETBACK
- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- PROPOSED SIDEWALK
- PROPOSED TRAIL
- PROPOSED GRAVEL PER EOM TABLE D-7
- RIPRAP OUTFALL PADS
- EXISTING SIGN
- PROPOSED SIGN
- PROPOSED CONCRETE
- EXISTING CONCRETE

#### NOTES

- ALIGNMENT AND PROFILES ARE IN RELATION TO THE CENTERLINE OF ROADWAY. THEREFORE STORM SEWER MANHOLE RIMS AND INLETS MAY APPEAR TO NOT MEET FINISH GRADE.
  - STORM SEWER TBC ELEVATIONS ON ALL STORM DRAIN CURB INLETS ARE LOCATED AT THE MIDDLE. CONTRACTOR TO ENSURE THE INLET MATCHES THE SLOPE OF THE ADJACENT ROADWAY CENTERLINE.
  - ALL STORM SEWER PIPING SHALL USE WATER TIGHT JOINTS.
  - SEE GRADING PLAN FOR ALL GRADING INFORMATION.
  - ALL STORM SEWER SHALL BE CLASS III RCP.
  - ALL STORM SEWER MANHOLES SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.
- (A) PEDESTRIAN RAMP, SEE DETAILS (EPC SD.2-40 & SD.2-41)
  - (B) PROPOSED 10' CURB TRANSITION
  - (C) PROPOSED 5' CURB TRANSITION
  - (D) PROPOSED 6' CONCRETE CROSS PAN, SEE DETAIL (EPC SD.2-26)

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.

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#### BASIS OF BEARING

THE NORTH LINE OF SECTION 28, TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, EL PASO COUNTY, STATE OF COLORADO WAS MONUMENTED AT EACH END BY A 3-1/2" ALUMINUM SURVEYORS CAP STAMPED "PSINC LS 30087" AND ASSUMED TO BEAR S89°47'04"E, A DISTANCE OF 5286.07 FEET.

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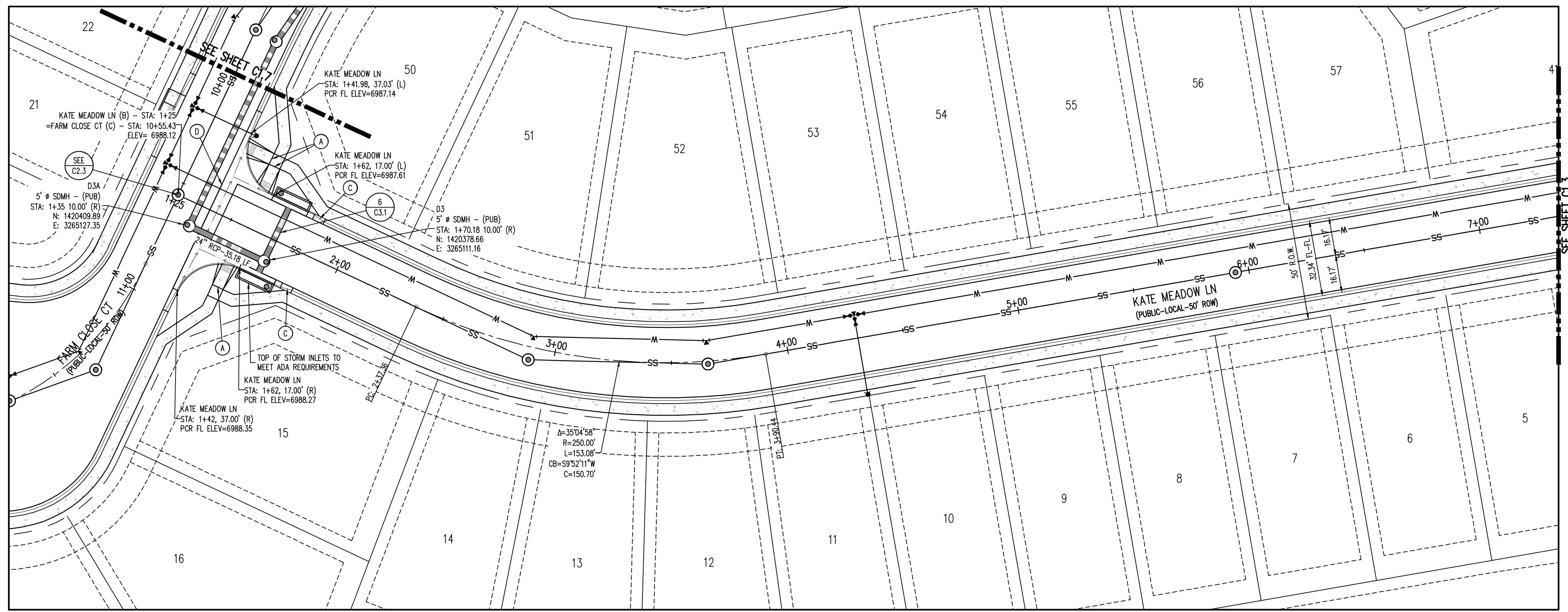
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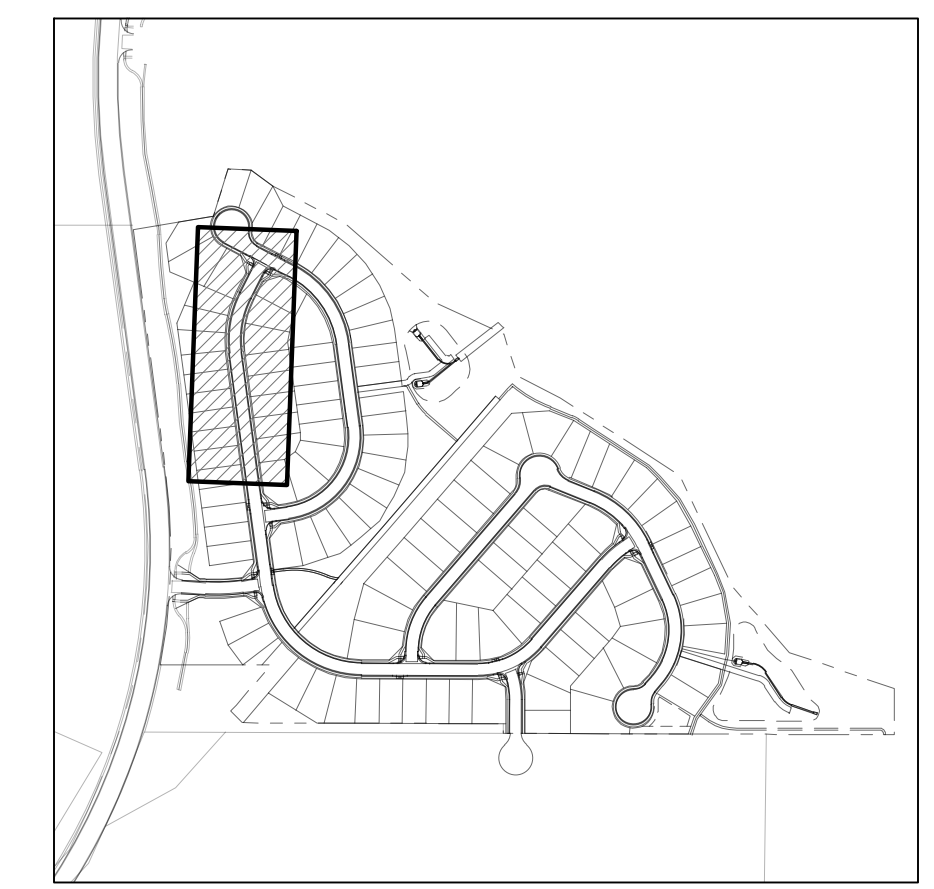
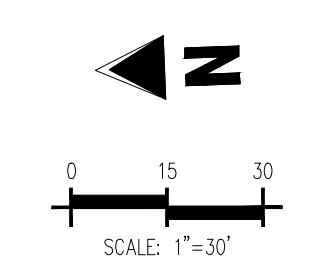


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Project No: HRC02  
 Drawn By: JDM  
 Checked By: RGD  
 Date: 10/14/2022



KATE MEADOW LN (B) - PUBLIC 50' R.O.W.  
25 MPH DESIGN SPEED (LOCAL)  
SCALE: 1"=30'



KEYMAP  
SCALE: 1"=500'

SITE LEGEND	
(Symbol)	PROPERTY BOUNDARY LINE
(Symbol)	ADJACENT PROPERTY BOUNDARY LINE
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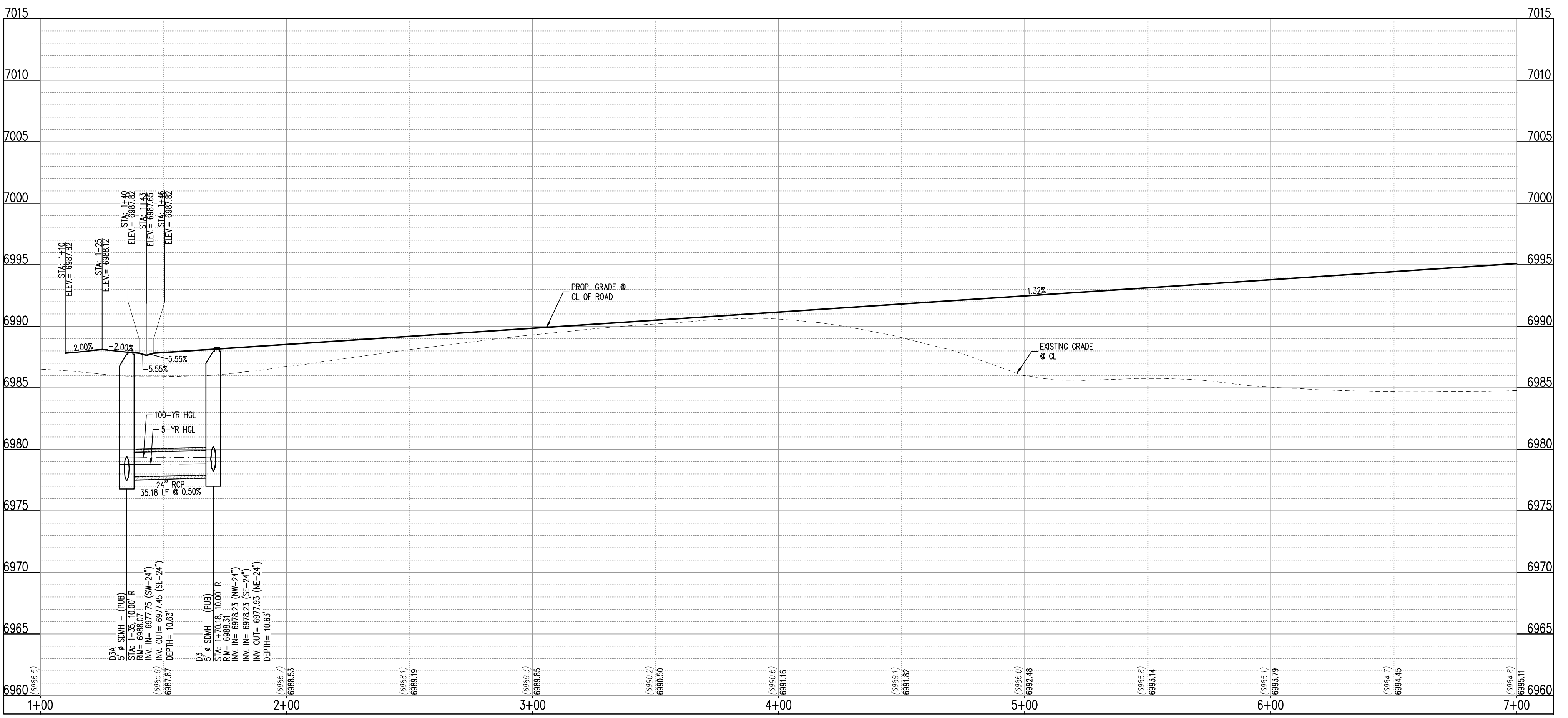
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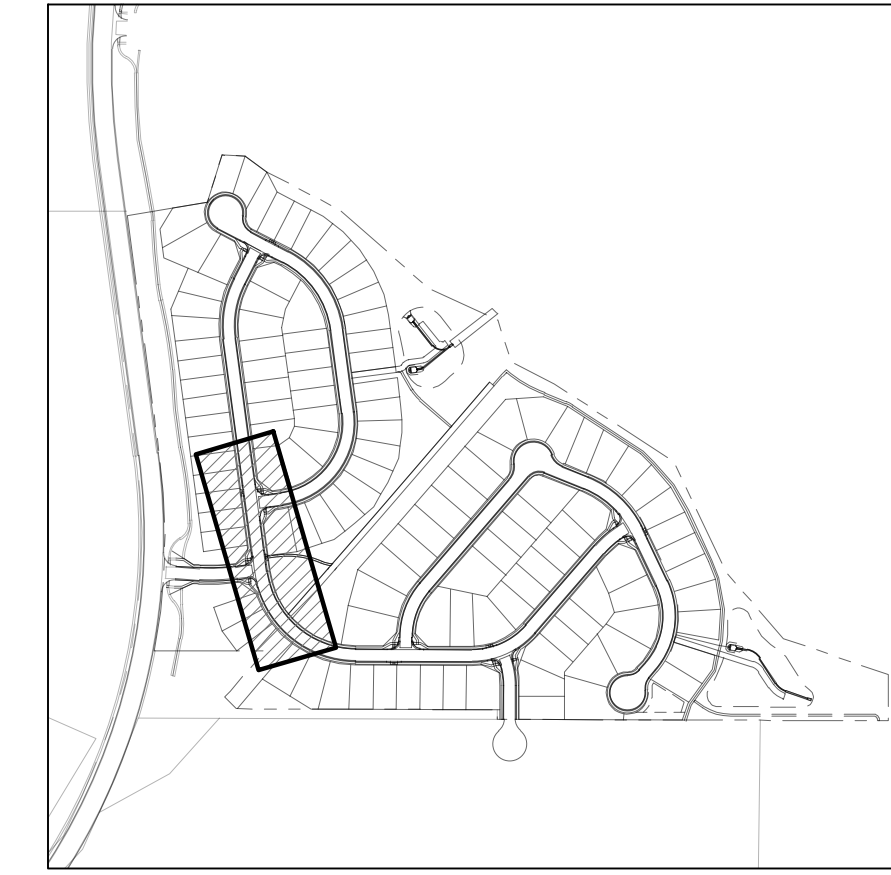
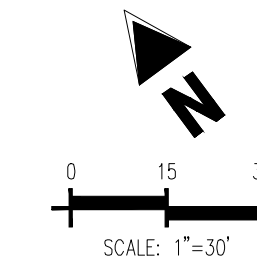
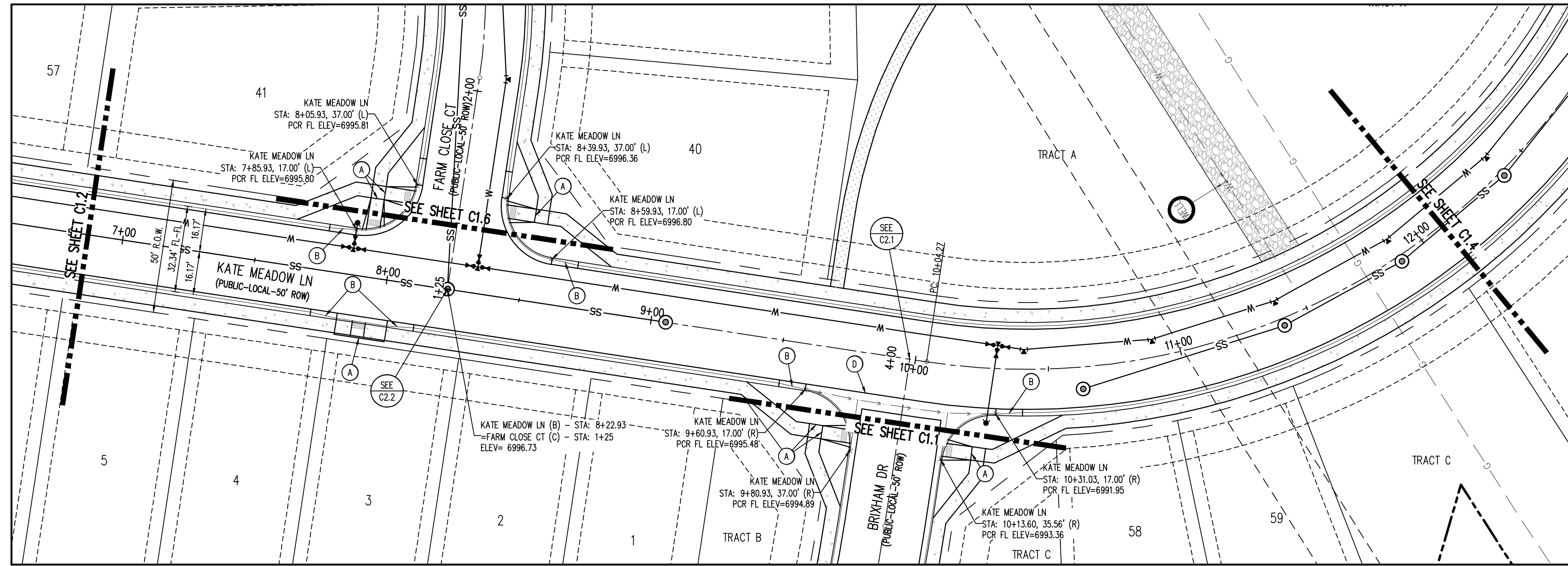
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SCALE: HORIZONTAL 1"=30', VERTICAL 1"=6'

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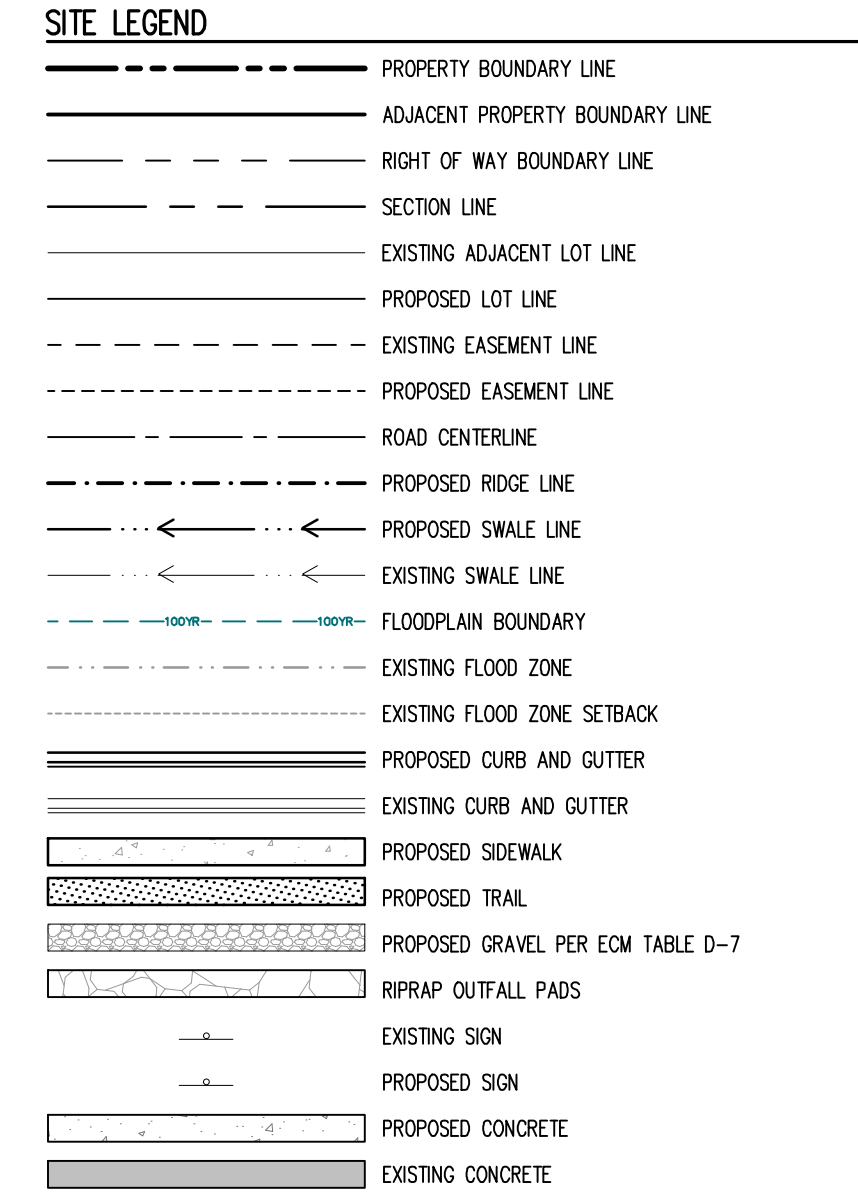
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Checked By: RGD  
Date: 10/14/2022

ROADWAY P&P



KEYMAP  
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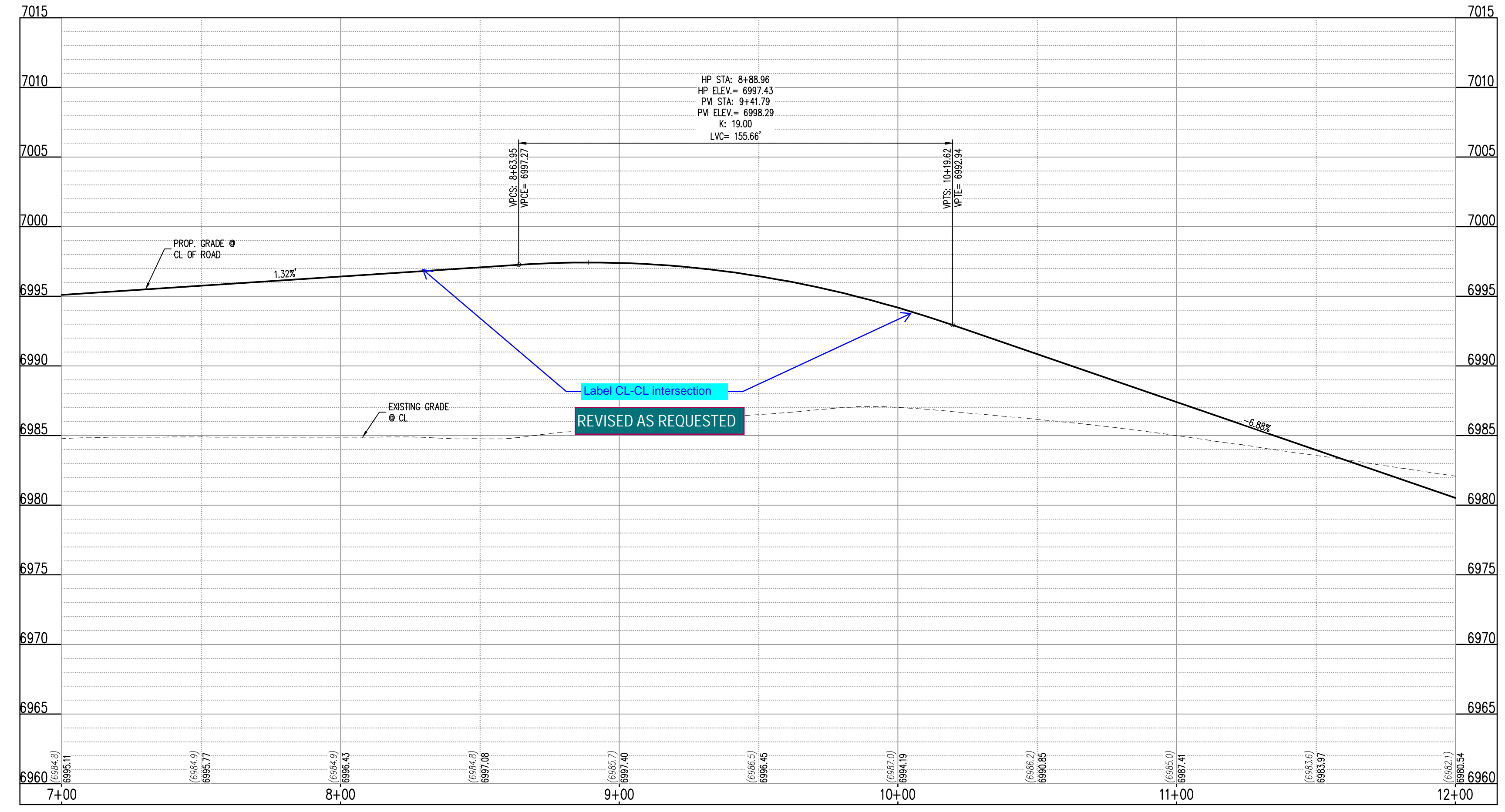
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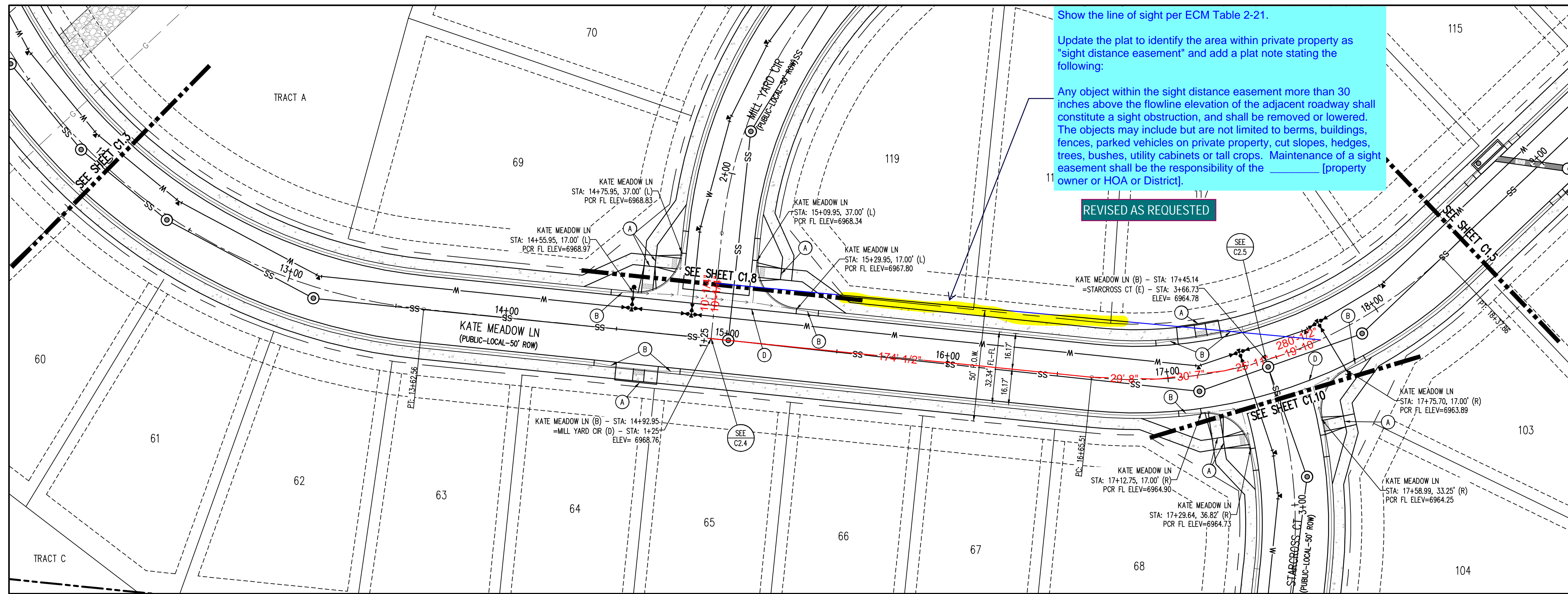
KATE MEADOW LN (B) (STA: 7+00 - 12+00)  
SCALES: HORIZONTAL 1"=30', VERTICAL 1"=6'

#	Date	Issue / Description	Init.

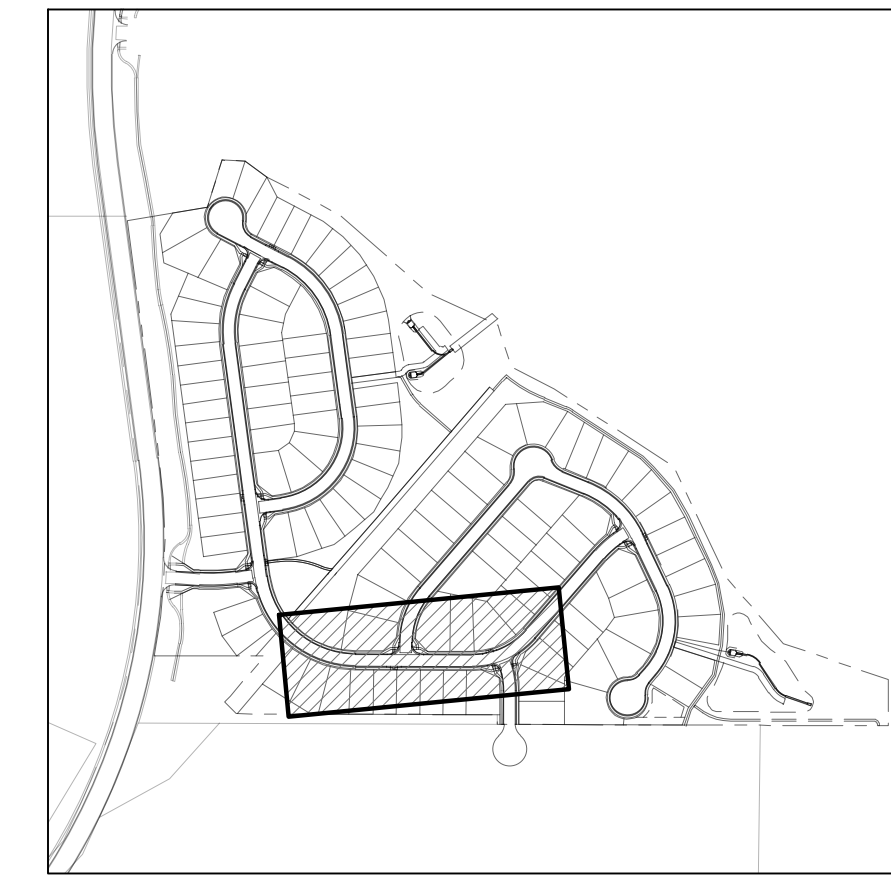
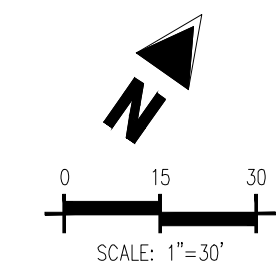
Project No:	HRG02
Drawn By:	JDM
Checked By:	RGD
Date:	10/14/2022

ROADWAY P&P





Show the line of sight per ECM Table 2-21.

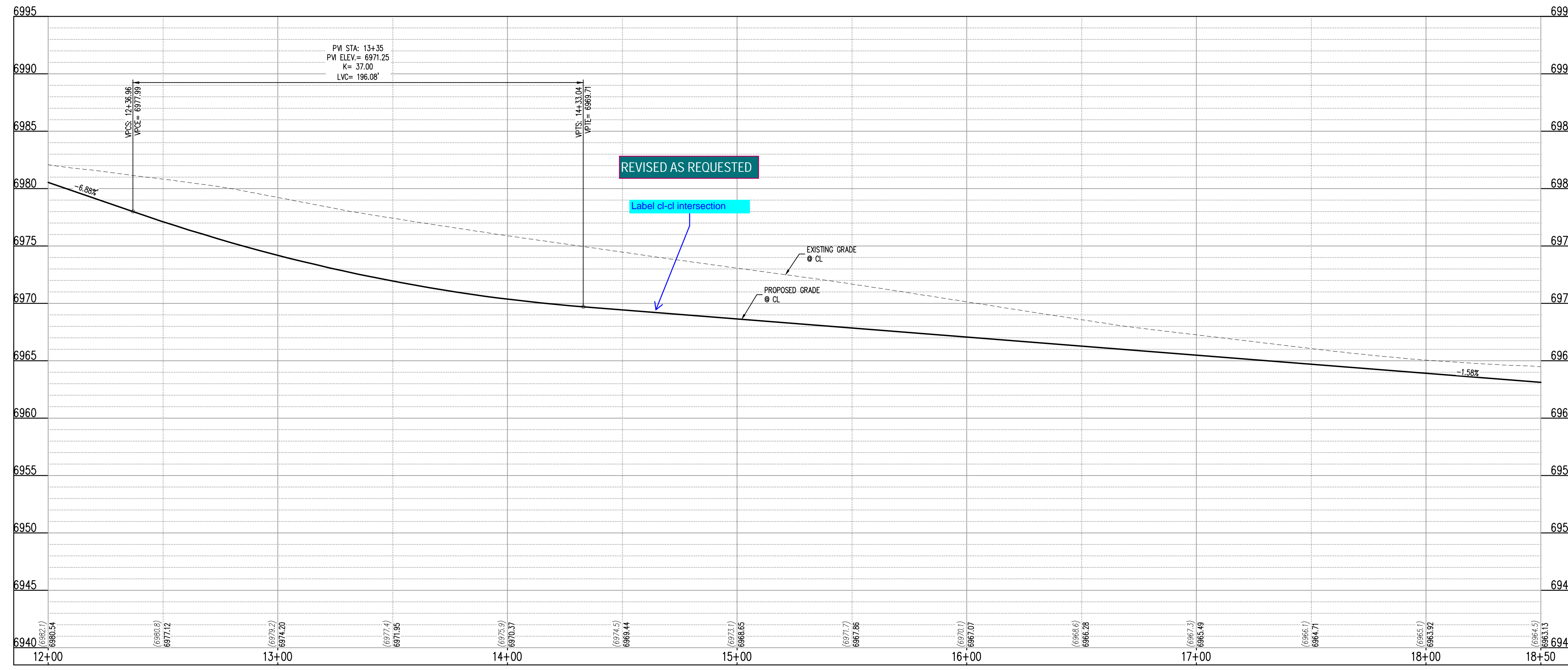


KEYMAP  
SCALE: 1"=500'

**SITE LEGEND**

- PROPERTY BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY LINE
- RIGHT OF WAY BOUNDARY LINE
- SECTION LINE
- EXISTING ADJACENT LOT LINE
- - - PROPOSED LOT LINE
- - - EXISTING EASEMENT LINE
- - - PROPOSED EASEMENT LINE
- ROAD CENTERLINE
- - - PROPOSED RIDGE LINE
- - - PROPOSED SWALE LINE
- - - EXISTING SWALE LINE
- - - FLOODPLAIN BOUNDARY
- - - EXISTING FLOOD ZONE
- - - EXISTING FLOOD ZONE SETBACK
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- PROPOSED TRAIL
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- RIPRAP OUTFALL PADS
- EXISTING SIGN
- PROPOSED SIGN
- PROPOSED CONCRETE
- EXISTING CONCRETE

**KATE MEADOW LN (B) - PUBLIC 50' R.O.W.  
25 MPH DESIGN SPEED (LOCAL)**  
SCALE: 1"=30'



**KATE MEADOW LN (B) (STA: 12+00 - 18+50)**  
SCALES: HORIZONTAL 1"=30', VERTICAL 1"=6'

**NOTES**

- ALIGNMENT AND PROFILES ARE IN RELATION TO THE CENTERLINE OF ROADWAY. THEREFORE STORM SEWER MANHOLE RIMS AND INLETS MAY APPEAR TO NOT MEET FINISH GRADE.
  - STORM SEWER TBC ELEVATIONS ON ALL STORM DRAIN CURB INLETS ARE LOCATED AT THE MIDDLE. CONTRACTOR TO ENSURE THE INLET MATCHES THE SLOPE OF THE ADJACENT ROADWAY CENTERLINE.
  - ALL STORM SEWER PIPING SHALL USE WATERTIGHT JOINTS.
  - SEE GRADING PLAN FOR ALL GRADING INFORMATION.
  - ALL STORM SEWER SHALL BE CLASS III RCP.
  - ALL STORM SEWER MANHOLES SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.
- (A) PEDESTRIAN RAMP, SEE DETAILS (EPC SD\_2-40 & SD\_2-41)
  - (B) PROPOSED 10' CURB TRANSITION
  - (C) PROPOSED 5' CURB TRANSITION
  - (D) PROPOSED 6" CONCRETE CROSS PAN, SEE DETAIL (EPC SD\_2-26)

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.

MAINTAIN MINIMUM 18" VERTICAL AND 10' HORIZONTAL SEPARATION BETWEEN STORM SEWER AND POTABLE WATER OR WASTEWATER. A 12" VERTICAL CLEARANCE MUST BE MAINTAINED BETWEEN BRIGATION LINES.

SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONING PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION WORK.

**BASIS OF BEARING**  
THE NORTH LINE OF SECTION 28, TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, EL PASO COUNTY, STATE OF COLORADO BEING MONUMENTED AT EACH END BY A 3-1/2" ALUMINUM SURVEYORS CAP STAMPED "PSINC LS 30087" AND ASSUMED TO BEAR S89°47'04"E, A DISTANCE OF 5285.07 FEET.

**BENCHMARK**  
NCS BENCHMARK F 24  
A STANDARD DISK, STAMPED F 24 1929 AND SET IN THE TOP OF A CONCRETE POST PROJECTING ABOUT 6 INCHES ABOVE GROUND, ALONG THE CHICAGO, ROCK ISLAND AND PACIFIC RAILROAD, 52 FEET NORTHWEST OF THE CENTERLINE OF U.S. HIGHWAY 24, 48 FEET SOUTHEAST OF THE CENTERLINE OF THE TRACK.  
NAVD88 ELEVATION = 6866.33

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CONSTRUCTION DOCUMENTS  
GRANDVIEW RESERVE FILING NO. 1  
4 SITE INVESTMENTS, LLC (D.R. HORTON)  
SF-22-XXX  
EASTONVILLE RD & REX RD  
EL PASO COUNTY, FALCON, CO 80831

#	Date	Issue / Description	Init.

Project No: HRC02  
Drawn By: JDM  
Checked By: RGD  
Date: 10/14/2022

ROADWAY P&P

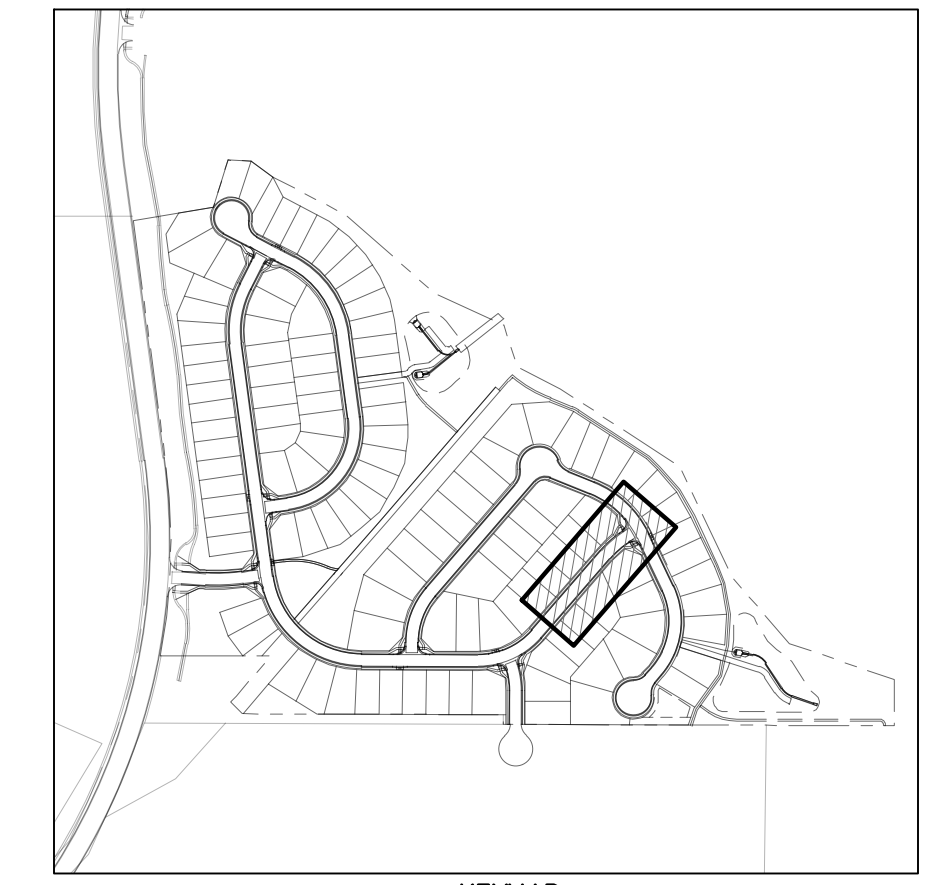
**C1.4**  
Sheet 9 of 29

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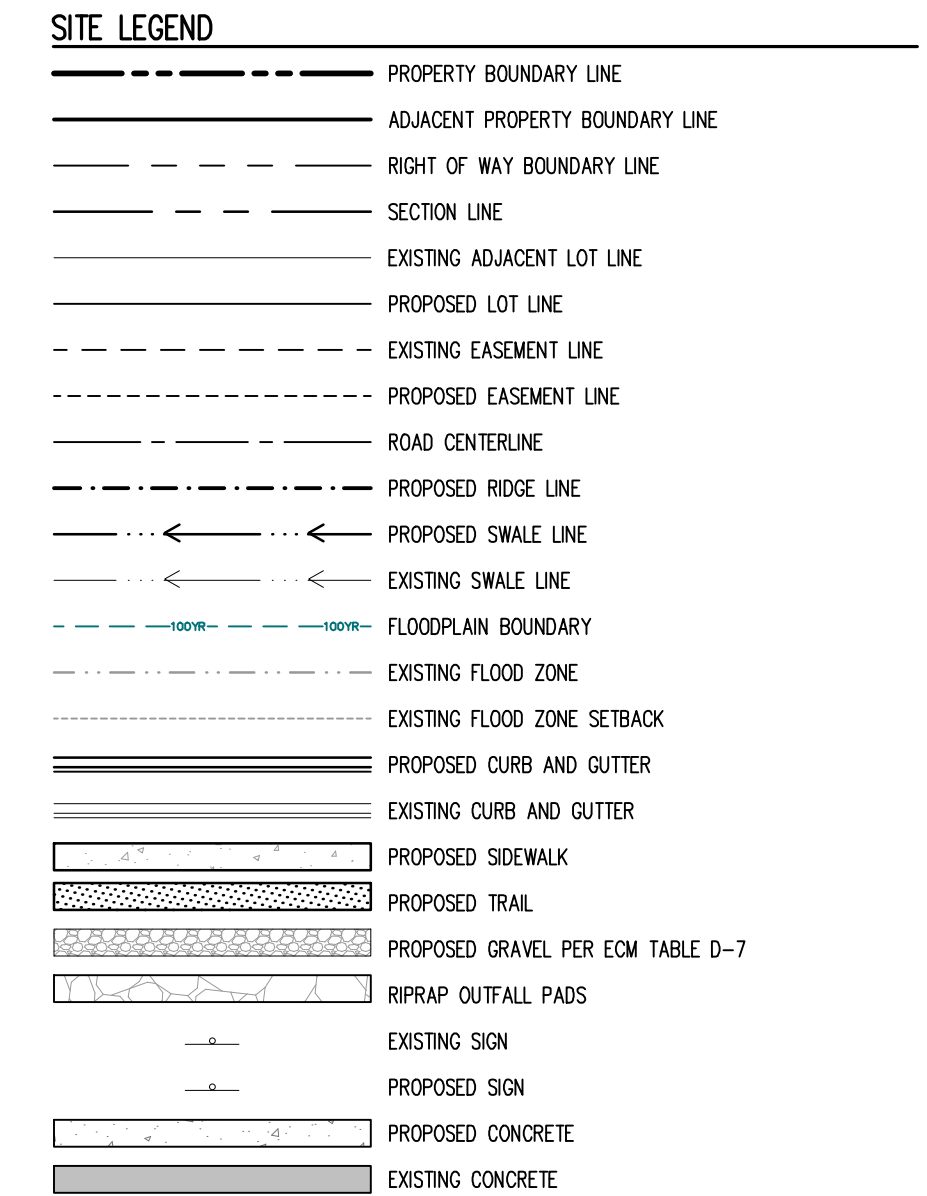
**D.R. HORTON**  
America's Builder

CONSTRUCTION DOCUMENTS  
GRANDVIEW RESERVE FILING NO. 1  
4 SITE INVESTMENTS, LLC (D.R. HORTON)  
SF-22-XXX

EASTONVILLE RD & REX RD  
EL PASO COUNTY, FALCON, CO 80831



KEYMAP  
SCALE: 1"=500'



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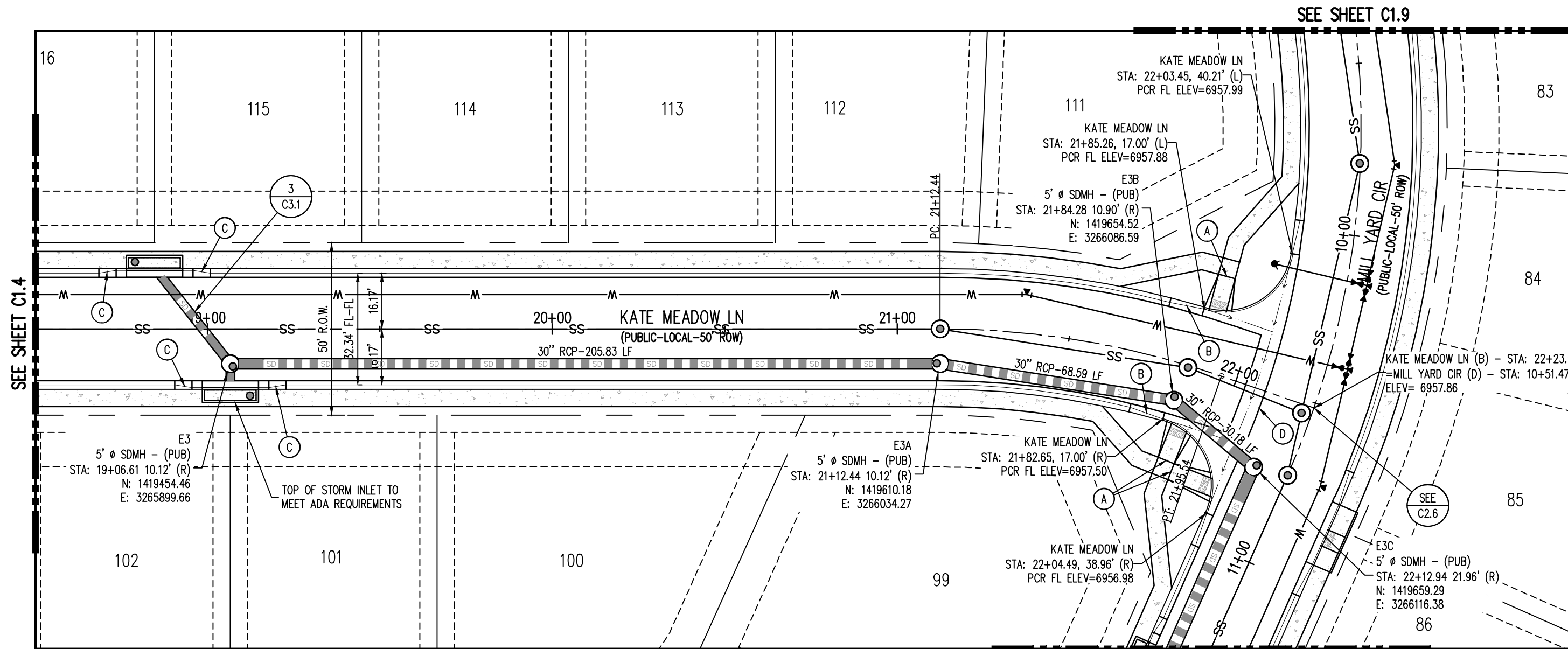
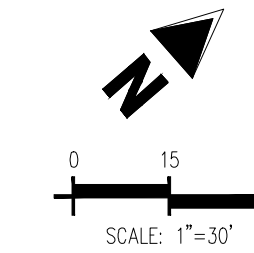
#	Date	Issue / Description	Init.

**BASIS OF BEARING**  
THE NORTH LINE OF SECTION 28, TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, EL PASO COUNTY, STATE OF COLORADO BEING MONUMENTED AT EACH END BY A 3-1/2" ALUMINUM SURVEYORS CAP STAMPED "PSINC LS 30687" AND ASSUMED TO BEAR S88°70'47" E, A DISTANCE OF 5265.07 FEET.

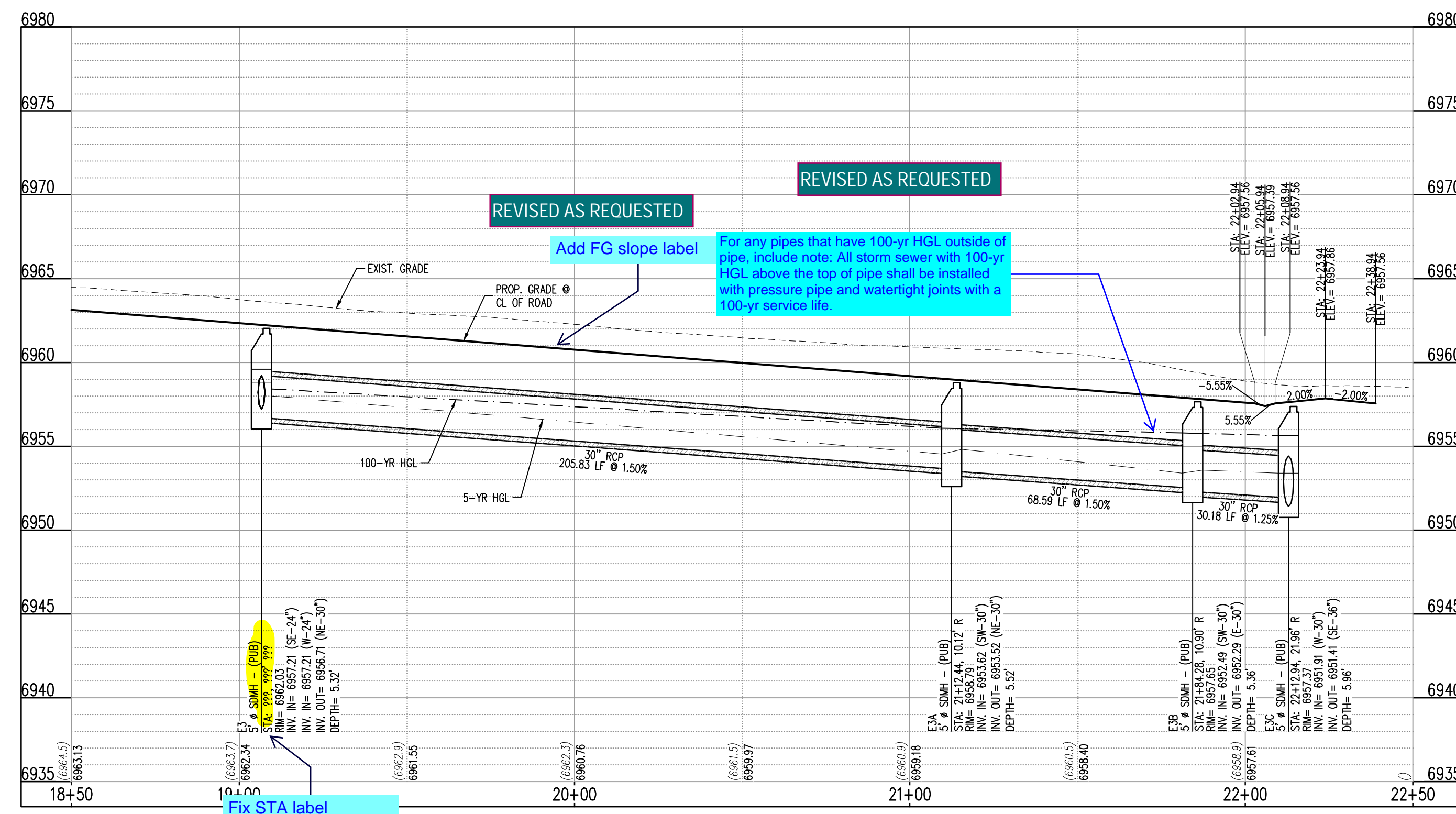
**BENCHMARK**  
NCS BENCHMARK F 24  
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NAVD88 ELEVATION = 6866.33

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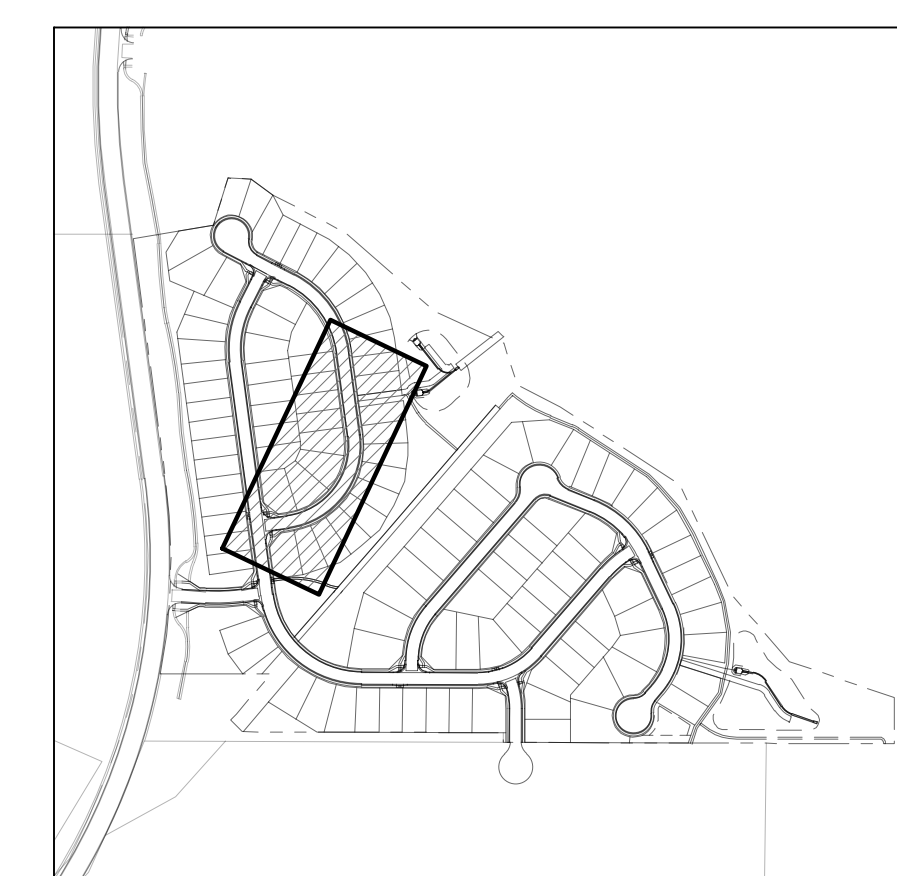


KATE MEADOW LN (B) - PUBLIC 50' R.O.W.  
25 MPH DESIGN SPEED (LOCAL)  
SCALE: 1"=30'



KATE MEADOW LN (B) (STA: 18+50 - 22+50)  
SCALE: HORIZONTAL 1"=30', VERTICAL 1"=6'

**REVISED AS REQUESTED**  
REVISED AS REQUESTED  
Add FG slope label  
For any pipes that have 100-yr HGL outside of pipe, include note. All storm sewer with 100-yr HGL above the top of pipe shall be installed with pressure pipe and watertight joints with a 100-yr service life.  
Fix STA label



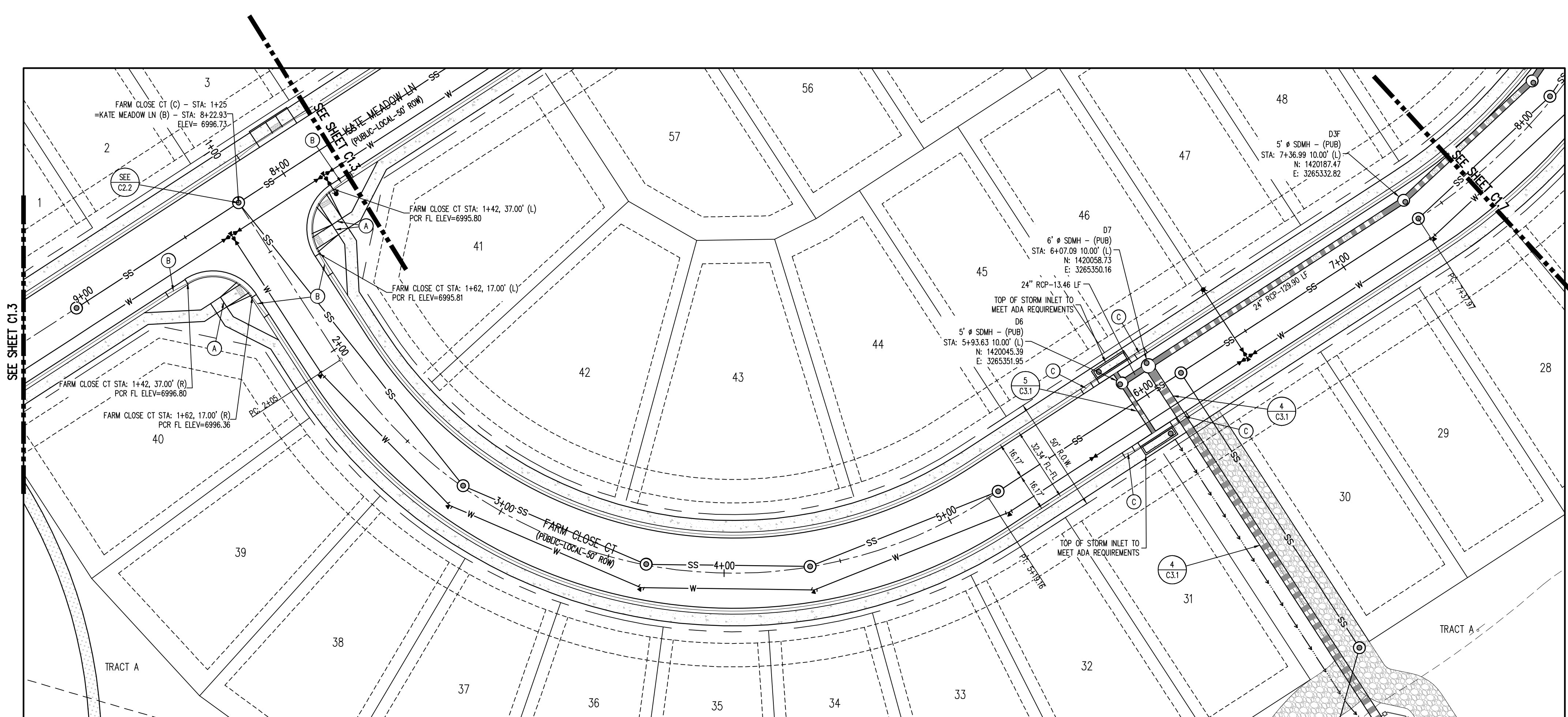
KEYMAP  
SCALE: 1"=500'

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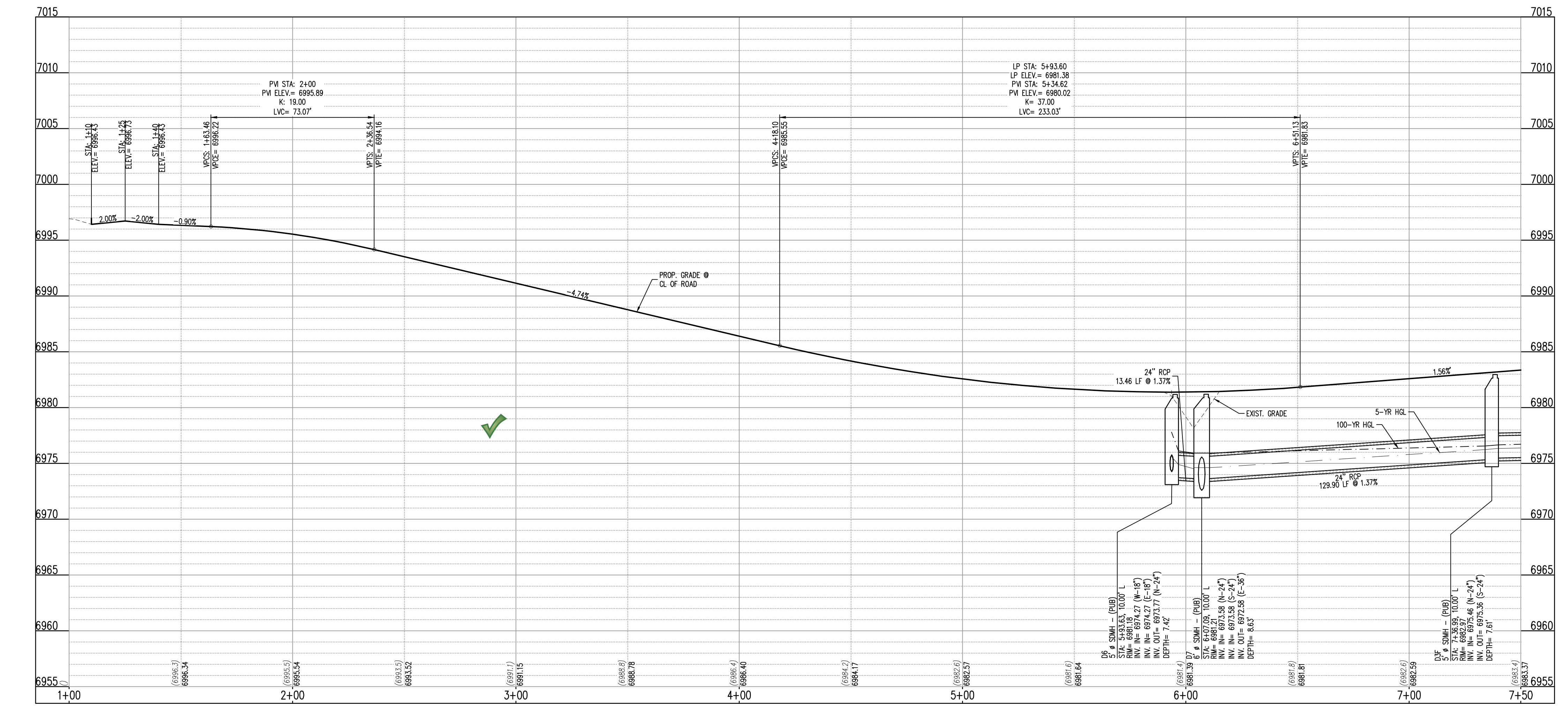
CONSTRUCTION DOCUMENTS  
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SF-22-XXX  
EASTONVILLE RD & REX RD  
EL PASO COUNTY, FALCON, CO 80831

#	Date	Issue / Description	Init.

Project No: HRC02  
Drawn By: JDM  
Checked By: RGD  
Date: 10/14/2022  
ROADWAY P&P



FARM CLOSE CT (C) - PUBLIC 50' R.O.W.  
25 MPH DESIGN SPEED (LOCAL)  
SCALE: 1"=30'



FARM CLOSE CT (C) (STA: 1+00 - 7+50)  
SCALE: HORIZONTAL 1"=30', VERTICAL 1"=6'

**SITE LEGEND**

- PROPERTY BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY LINE
- RIGHT OF WAY BOUNDARY LINE
- SECTION LINE
- EXISTING ADJACENT LOT LINE
- PROPOSED LOT LINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- ROAD CENTERLINE
- PROPOSED RIDGE LINE
- PROPOSED SWALE LINE
- EXISTING SWALE LINE
- FLOODPLAIN BOUNDARY
- EXISTING FLOOD ZONE
- EXISTING FLOOD ZONE SETBACK
- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- PROPOSED SIDEWALK
- PROPOSED TRAIL
- PROPOSED GRAVEL PER EGM TABLE D-7
- RIPRAP OUTFALL PADS
- EXISTING SIGN
- PROPOSED SIGN
- PROPOSED CONCRETE
- EXISTING CONCRETE

**NOTES**

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  - SEE GRADING PLAN FOR ALL GRADING INFORMATION.
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  - ALL STORM SEWER MANHOLES SHALL BE TYPE 'I' UNLESS OTHERWISE NOTED.
- (A) PEDESTRIAN RAMP, SEE DETAILS (EPC SD.2-40 & SD.2-41)  
(B) PROPOSED 10' CURB TRANSITION  
(C) PROPOSED 5' CURB TRANSITION  
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**BENCHMARK**

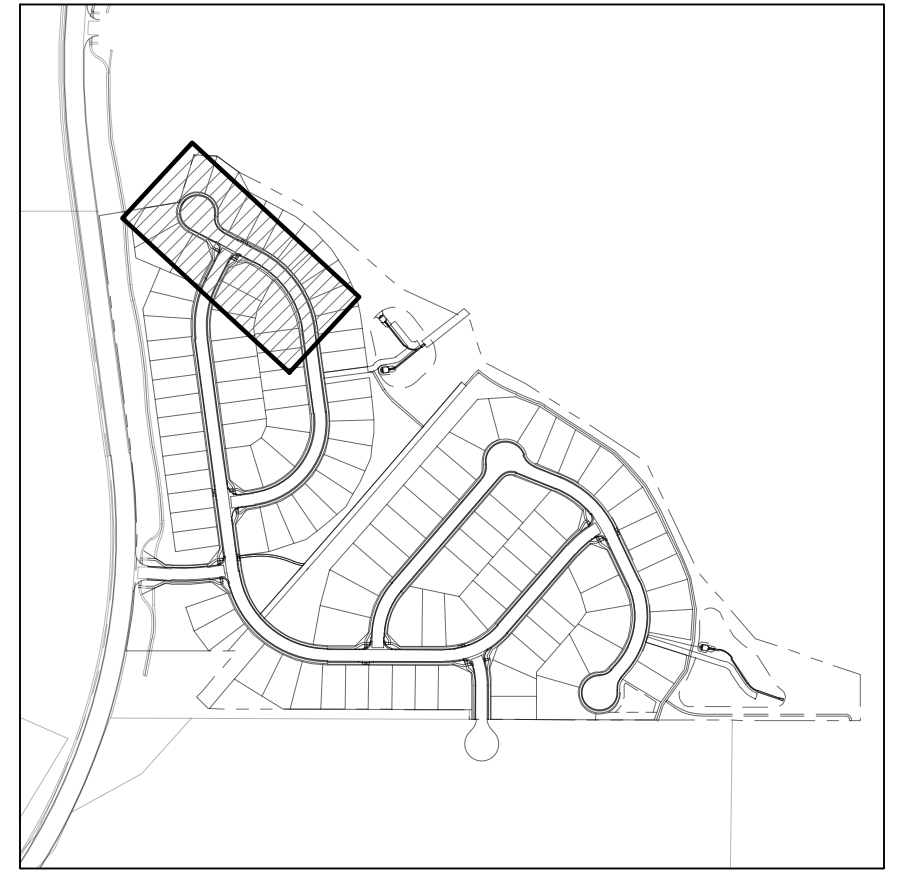
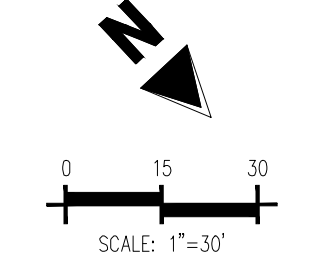
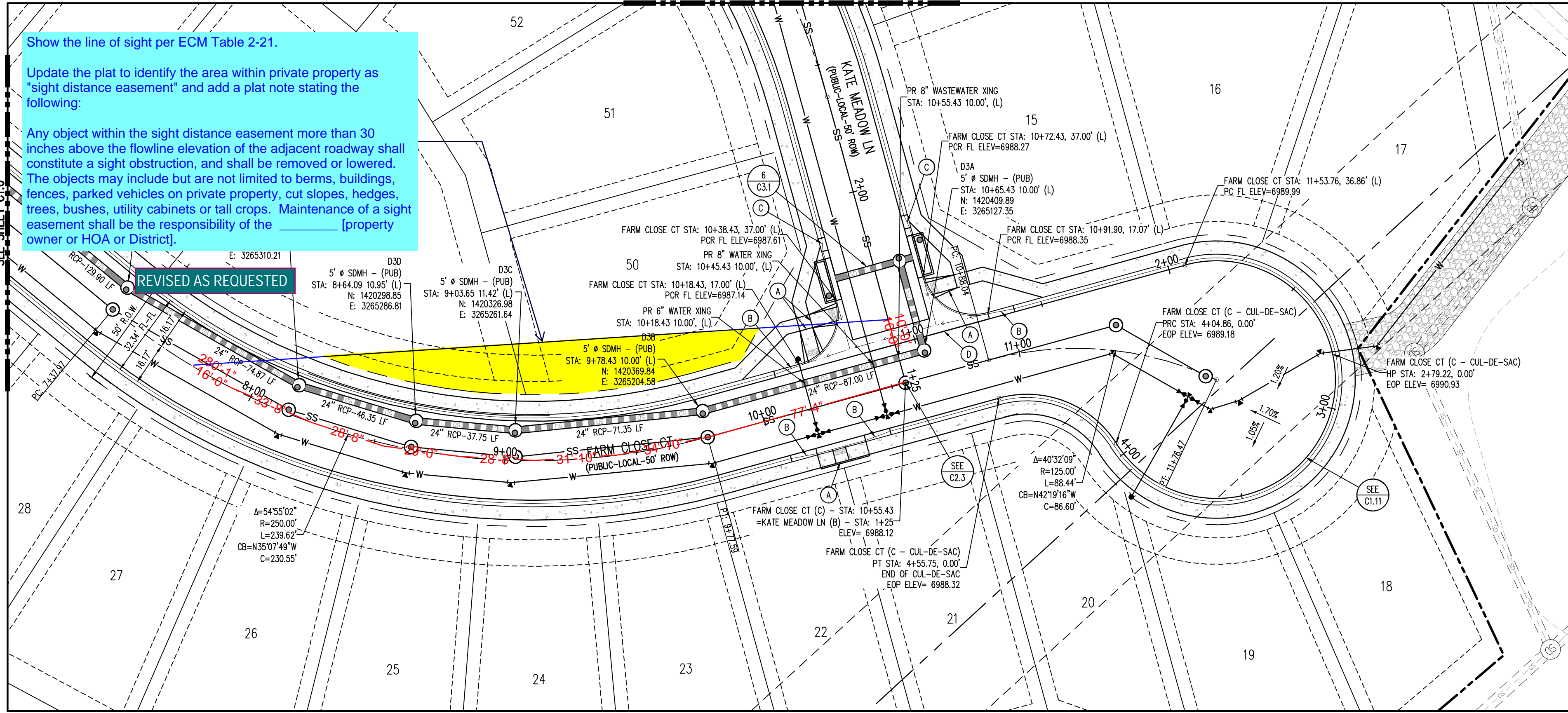
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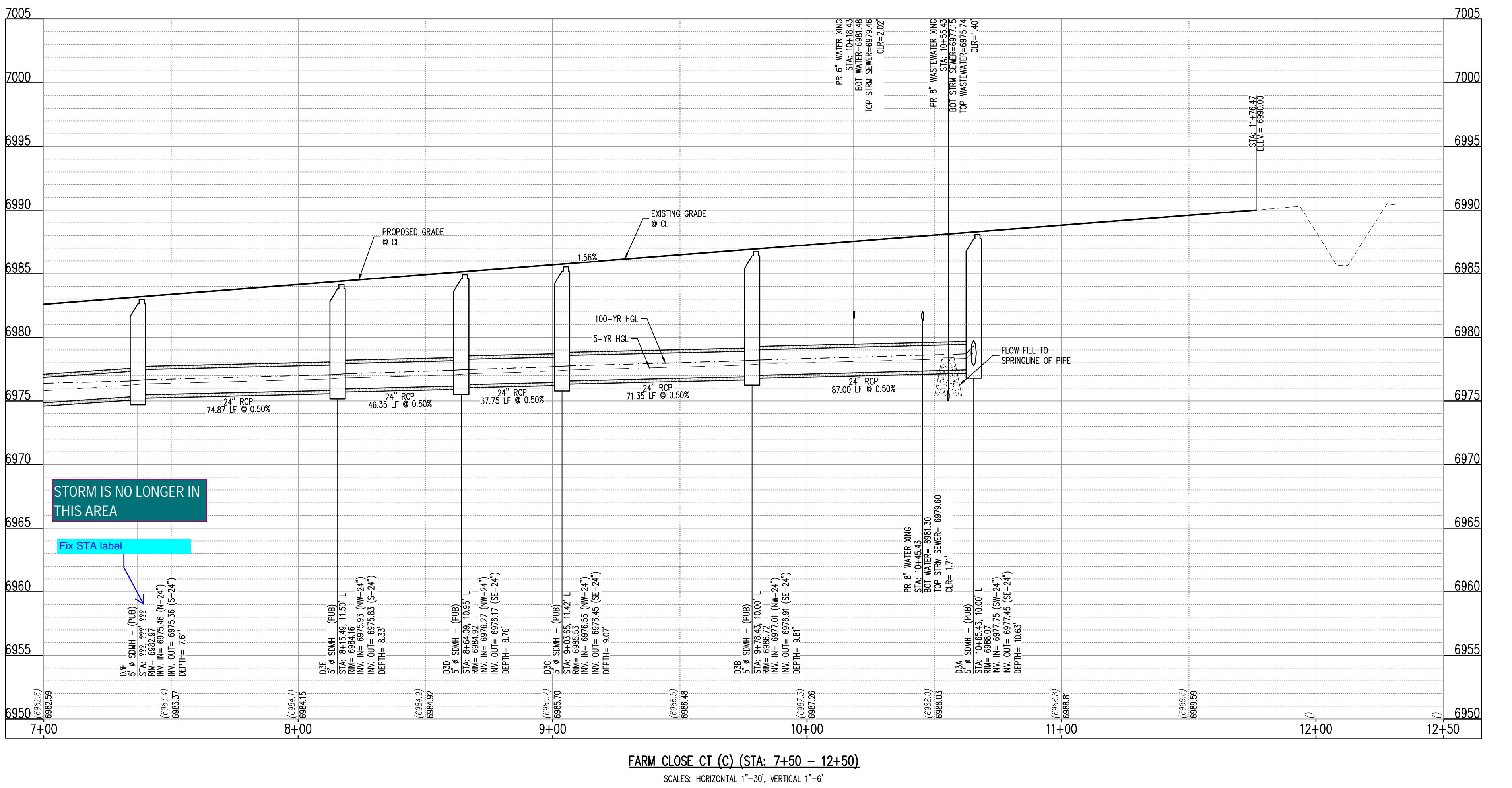
Show the line of sight per ECM Table 2-21.  
Update the plat to identify the area within private property as "sight distance easement" and add a plat note stating the following:  
Any object within the sight distance easement more than 30 inches above the flowline elevation of the adjacent roadway shall constitute a sight obstruction, and shall be removed or lowered. The objects may include but are not limited to berms, buildings, fences, parked vehicles on private property, cut slopes, hedges, trees, bushes, utility cabinets or tall crops. Maintenance of a sight easement shall be the responsibility of the \_\_\_\_\_ [property owner or HOA or District].



**SITE LEGEND**

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- ADJACENT PROPERTY BOUNDARY LINE
- RIGHT OF WAY BOUNDARY LINE
- SECTION LINE
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- PROPOSED LOT LINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
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- PROPOSED RIDGE LINE
- PROPOSED SWALE LINE
- EXISTING SWALE LINE
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- EXISTING FLOOD ZONE
- EXISTING FLOOD ZONE SETBACK
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- PROPOSED CONCRETE
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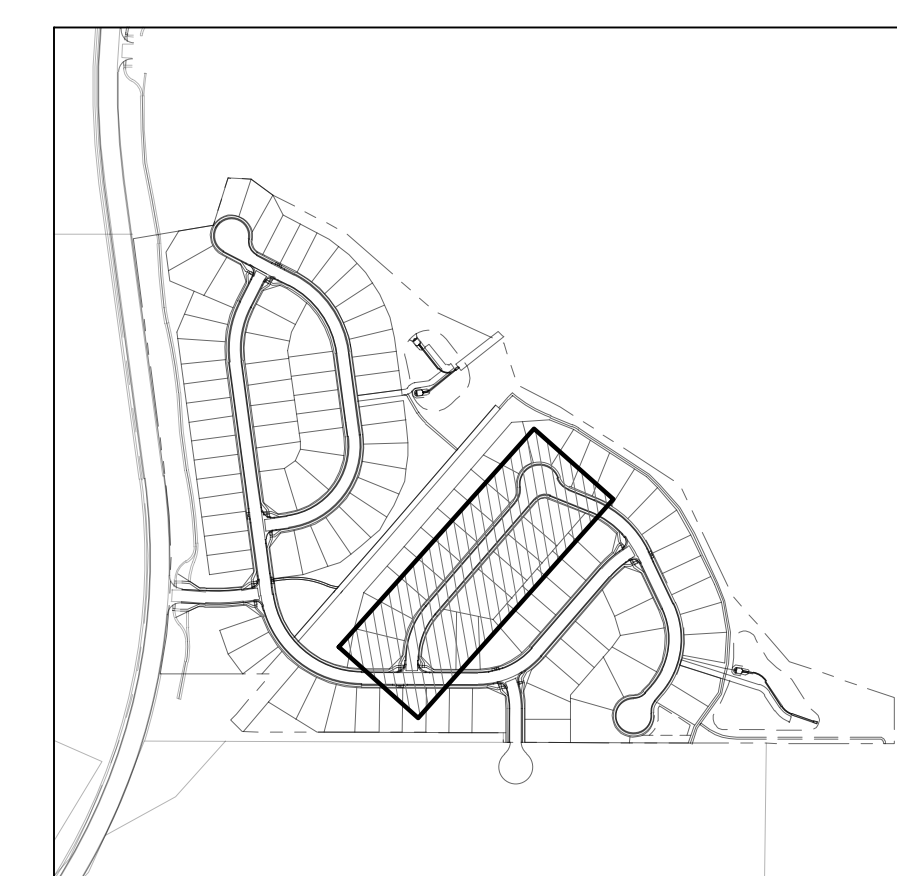
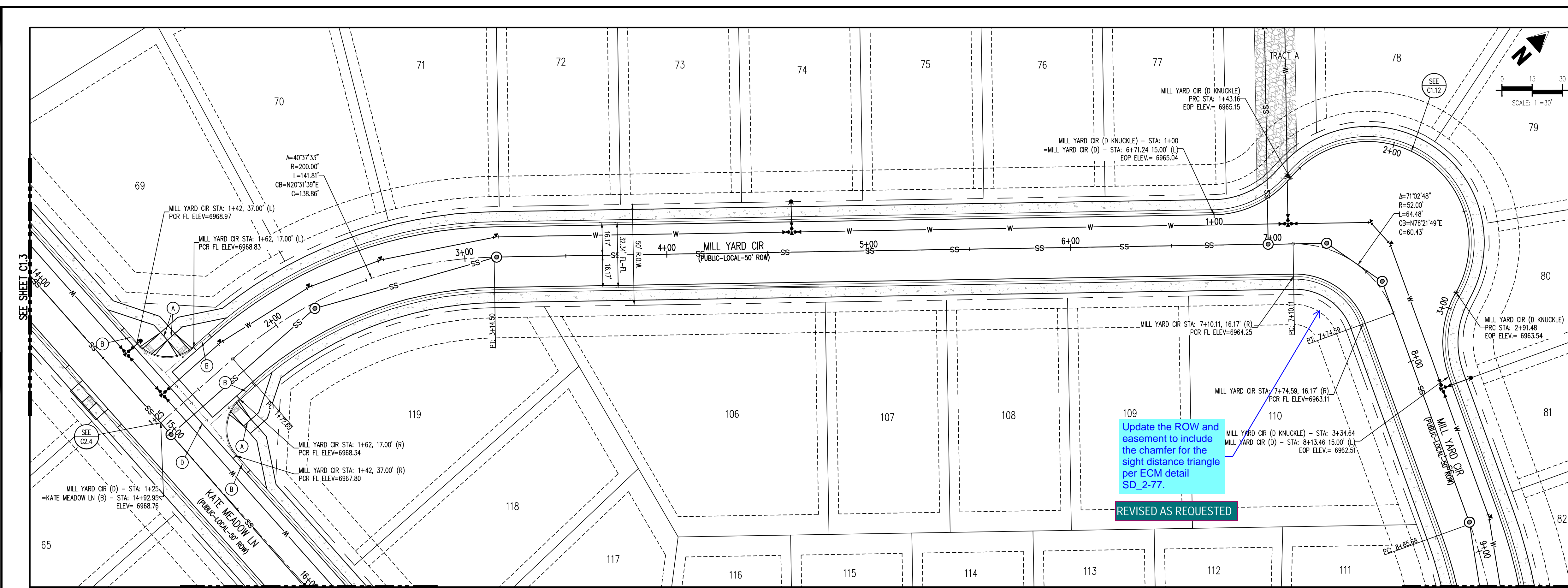
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- 811 Know what's below. Call before you dig.

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#	Date	Issue / Description	Init.



**SITE LEGEND**

---	PROPERTY BOUNDARY LINE
- - - -	ADJACENT PROPERTY BOUNDARY LINE
- - - -	RIGHT OF WAY BOUNDARY LINE
---	SECTION LINE
- - - -	EXISTING ADJACENT LOT LINE
- - - -	PROPOSED LOT LINE
- - - -	EXISTING EASEMENT LINE
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- - - -	PROPOSED RIDGE LINE
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- - - -	EXISTING FLOOD ZONE
- - - -	EXISTING FLOOD ZONE SETBACK
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---	PROPOSED TRAIL
---	PROPOSED GRAVEL PER ECM TABLE D-7
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---	PROPOSED SIGN
---	PROPOSED CONCRETE
---	EXISTING CONCRETE

- NOTES**
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  3. ALL STORM SEWER PIPING SHALL USE WATER-TIGHT JOINTS.
  4. SEE GRADING PLAN FOR ALL GRADING INFORMATION.
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  6. ALL STORM SEWER MANHOLES SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

- (A) PEDESTRIAN RAMP, SEE DETAILS (EPC SD\_2-40 & SD\_2-41)
- (B) PROPOSED 10' CURB TRANSITION
- (C) PROPOSED 5' CURB TRANSITION
- (D) PROPOSED 6" CONCRETE CROSS PAN, SEE DETAIL (EPC SD\_2-26)

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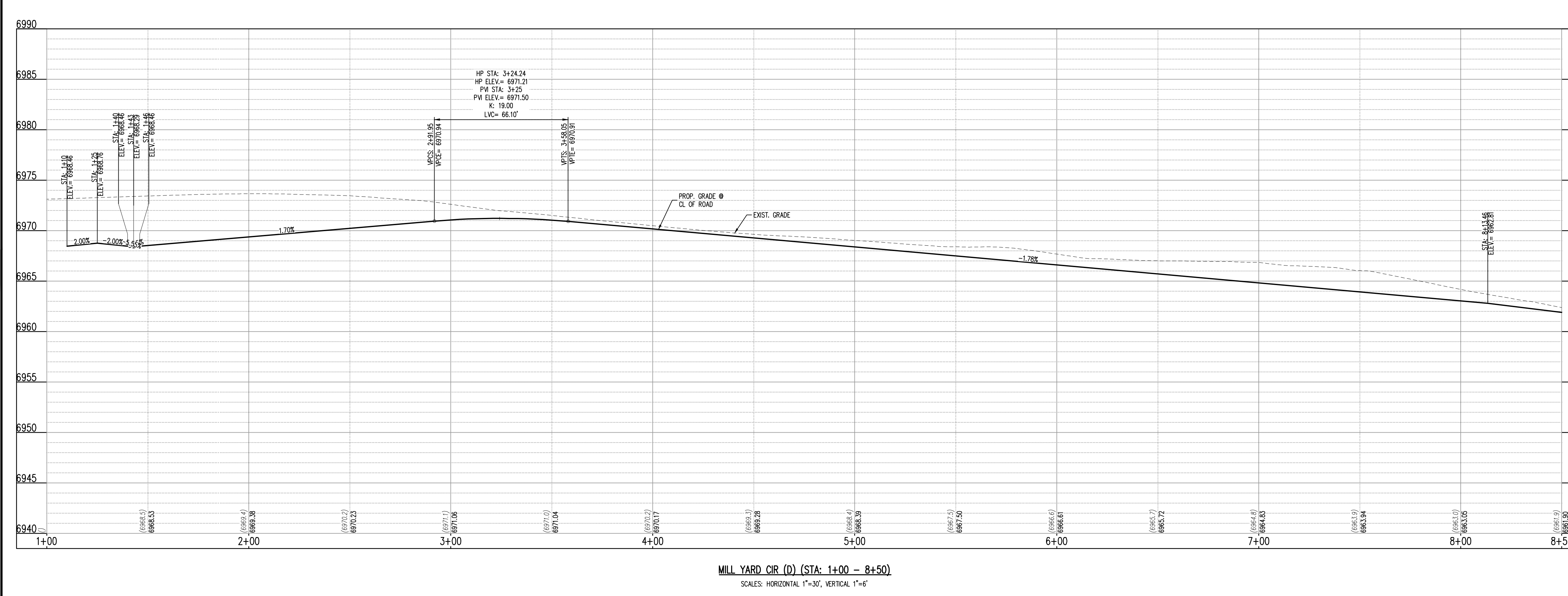
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**MILL YARD CIR (D) (STA: 1+00 - 8+50)**  
SCALES: HORIZONTAL 1"=30', VERTICAL 1"=6'

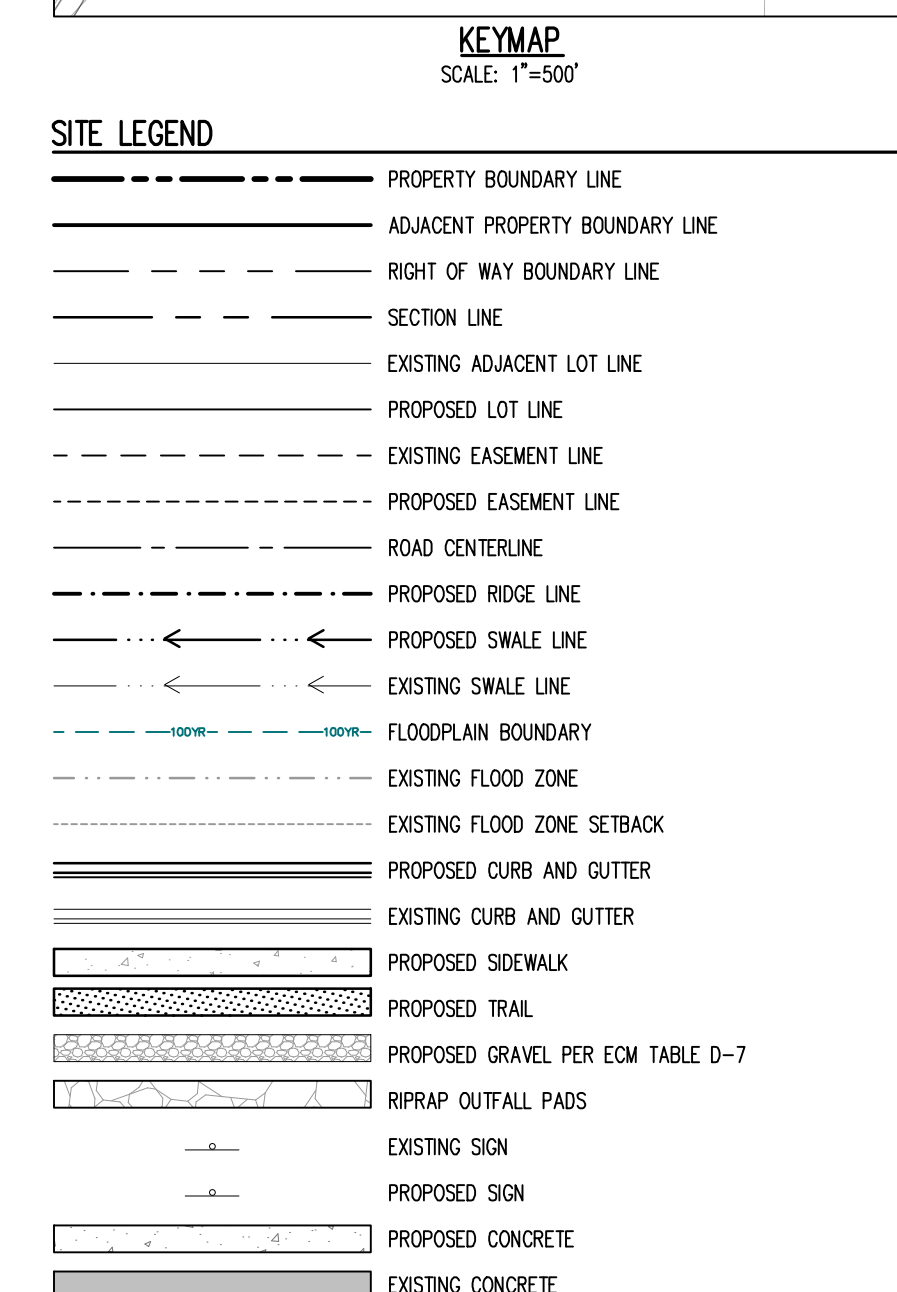
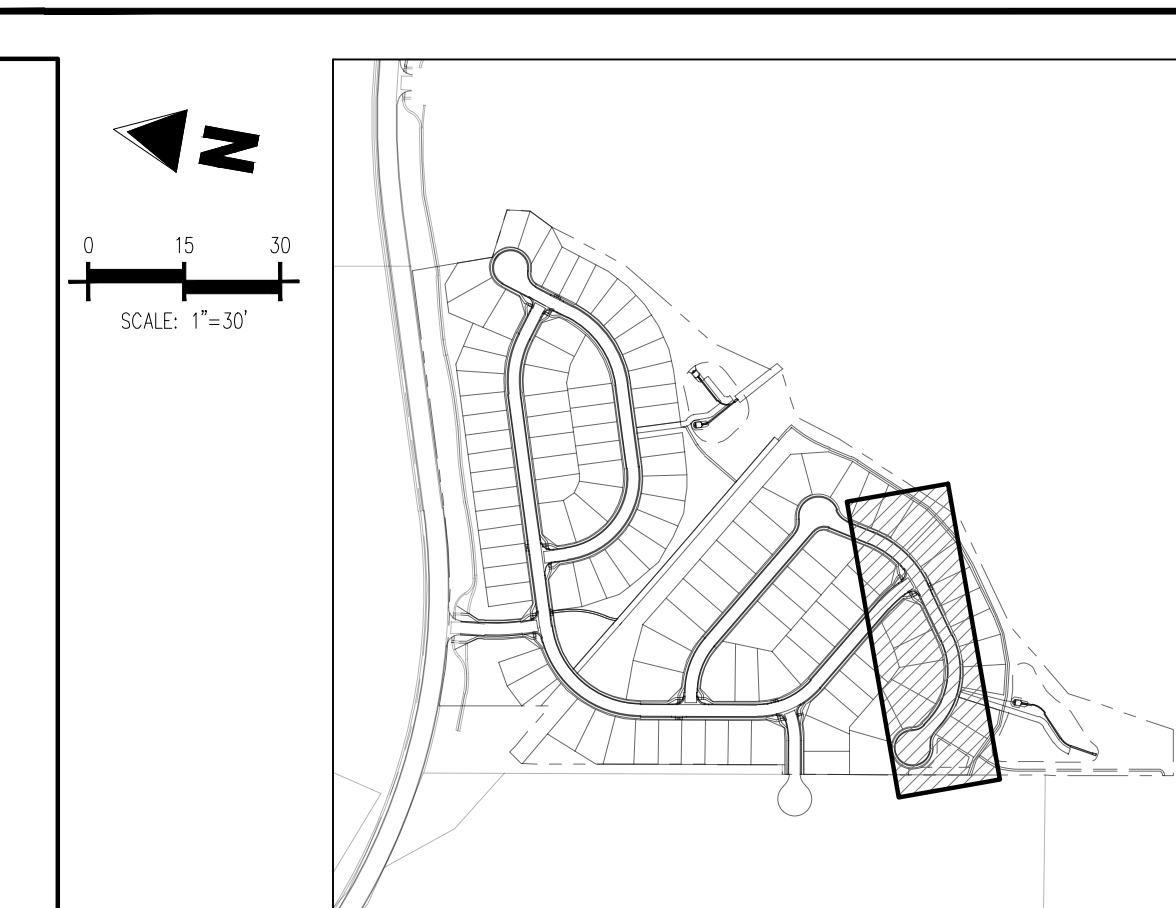
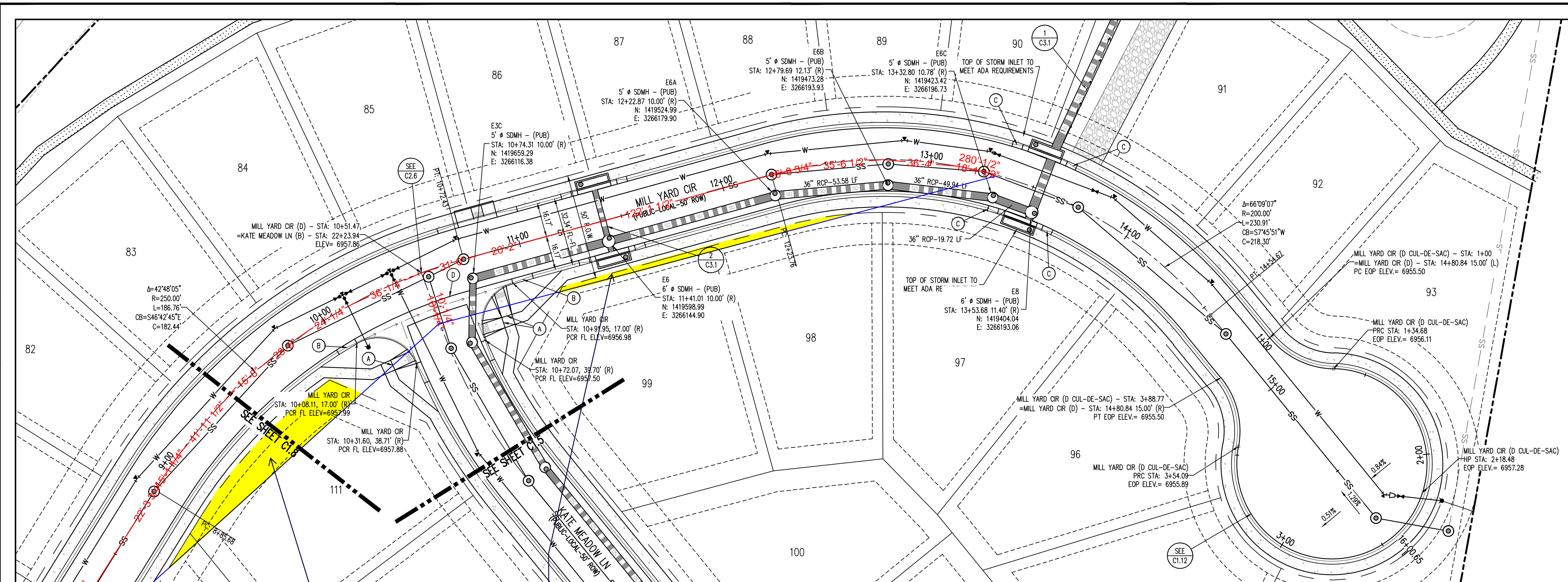
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**CONSTRUCTION DOCUMENTS**  
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**4 SITE INVESTMENTS, LLC (D.R. HORTON)**  
**SF-22-XXX**  
**EASTONVILLE RD & REX RD**  
**EL PASO COUNTY, FALCON, CO 80831**

#	Date	Issue / Description	Init.

Project No: HRC02  
 Drawn By: JDM  
 Checked By: RGD  
 Date: 10/14/2022  
**ROADWAY P&P**

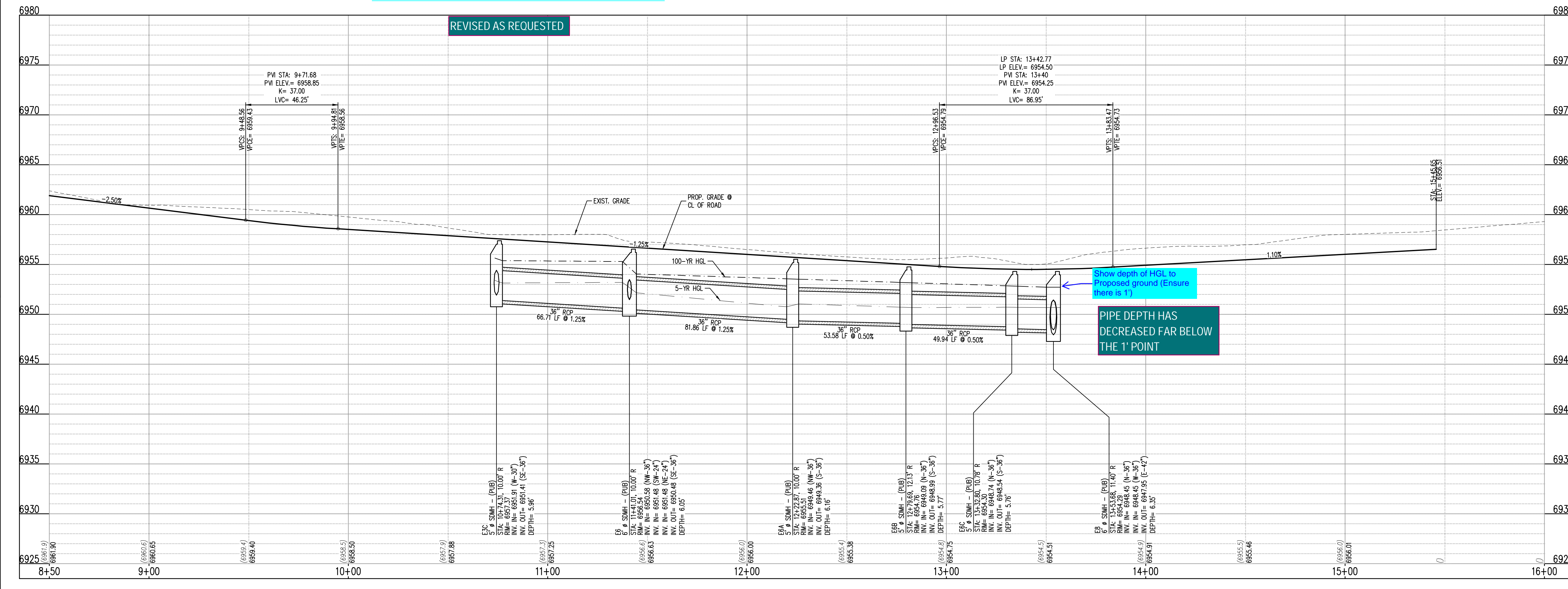


Show the line of sight per ECM Table 2-21.

Update the plat to identify the area within private property as "sight distance easement" and add a plat note stating the following:

Any object within the sight distance easement more than 30 inches above the flowline elevation of the adjacent roadway shall constitute a sight obstruction, and shall be removed or lowered. The objects may include but are not limited to berms, buildings, fences, parked vehicles on private property, cut slopes, hedges, trees, bushes, utility cabinets or tall crops. Maintenance of a sight easement shall be the responsibility of the \_\_\_\_\_ [property owner or HOA or District].

MILL YARD CIR (D) - PUBLIC 50' R.O.W.  
25 MPH DESIGN SPEED (LOCAL)  
SCALE: 1"=30'



Show depth of HGL to Proposed ground (Ensure there is 1')

PIPE DEPTH HAS DECREASED FAR BELOW THE 1' POINT

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SF-22-XXX

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EL PASO COUNTY, FALCON, CO 80831

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**D·R·HORTON**  
 America's Builder

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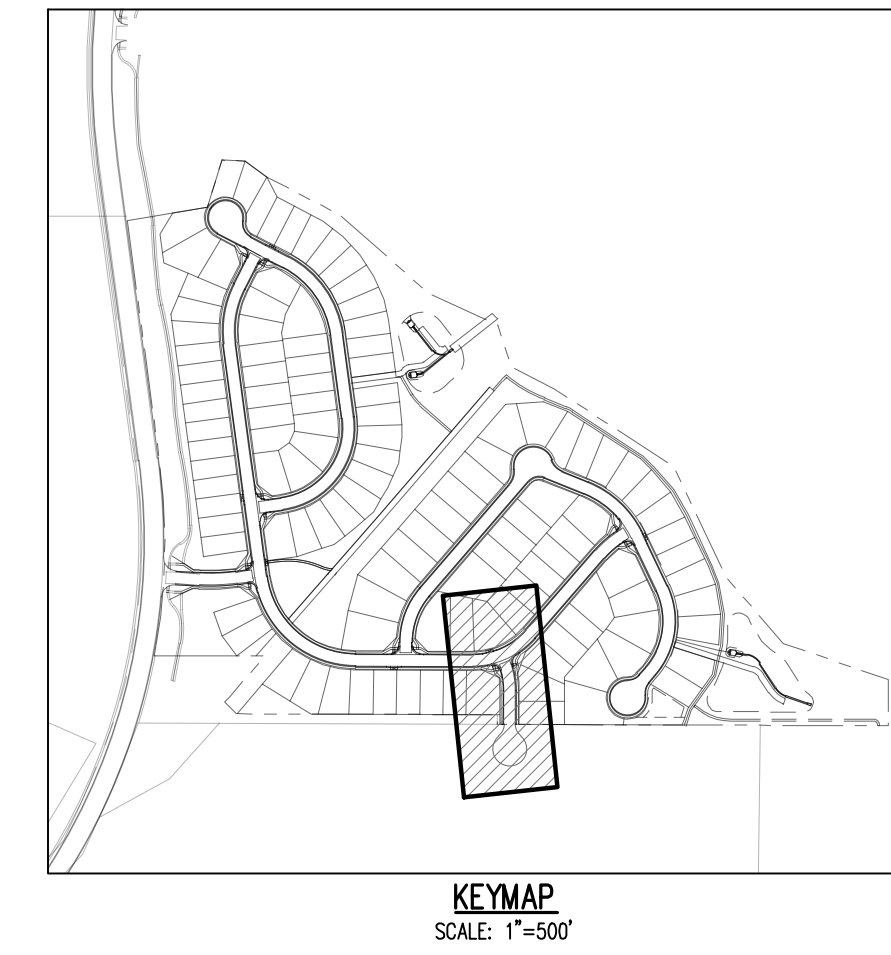
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**ROADWAY P&P**

**C1.10**  
 Sheet 15 of 29



SITE LEGEND	
	PROPERTY BOUNDARY LINE
	ADJACENT PROPERTY BOUNDARY LINE
	RIGHT OF WAY BOUNDARY LINE
	SECTION LINE
	EXISTING ADJACENT LOT LINE
	PROPOSED LOT LINE
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	ROAD CENTERLINE
	PROPOSED RIDGE LINE
	PROPOSED SWALE LINE
	EXISTING SWALE LINE
	FLOODPLAIN BOUNDARY
	EXISTING FLOOD ZONE
	EXISTING FLOOD ZONE SETBACK
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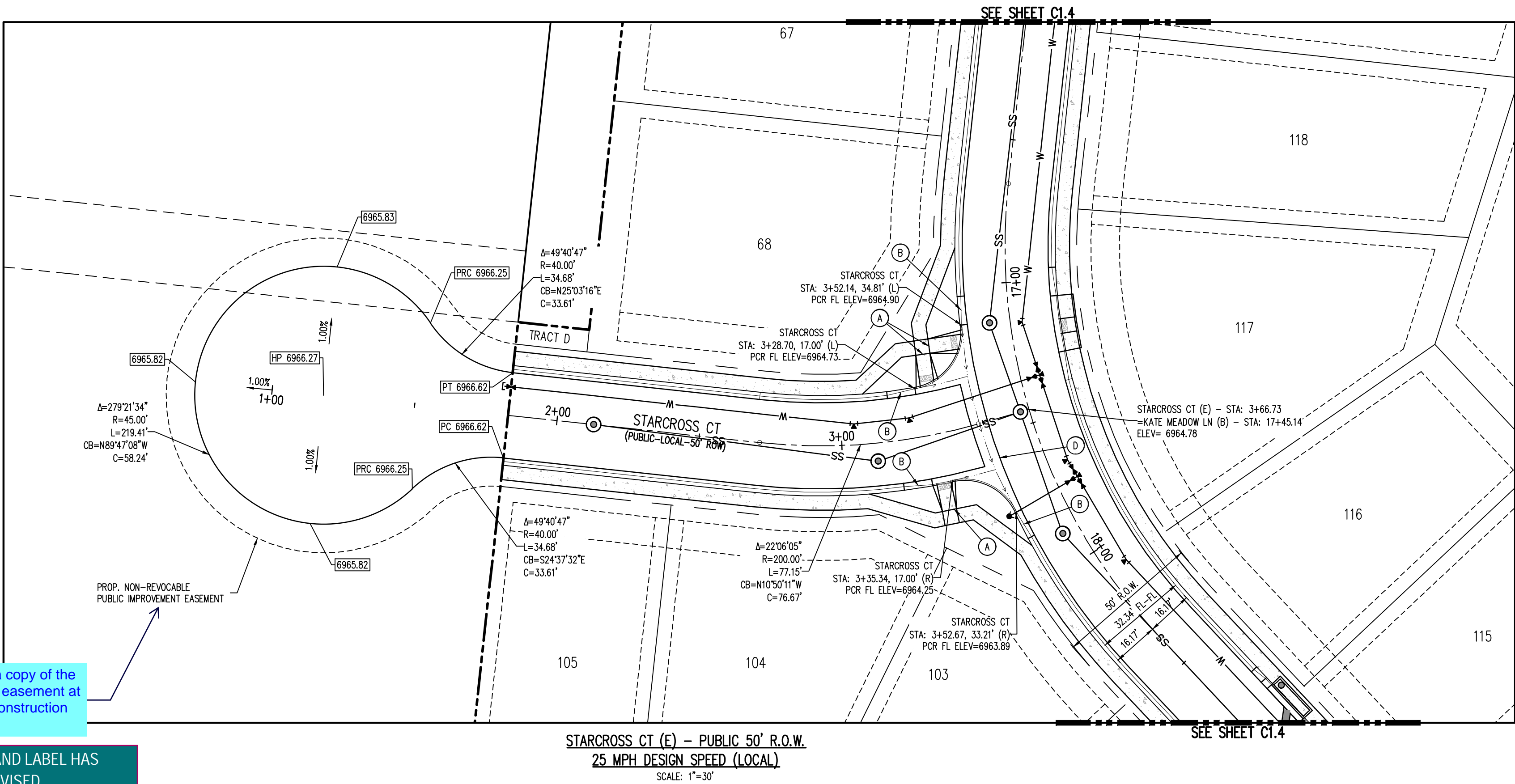
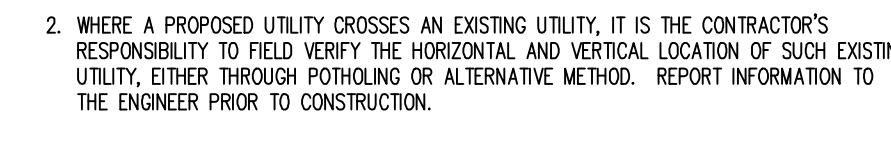
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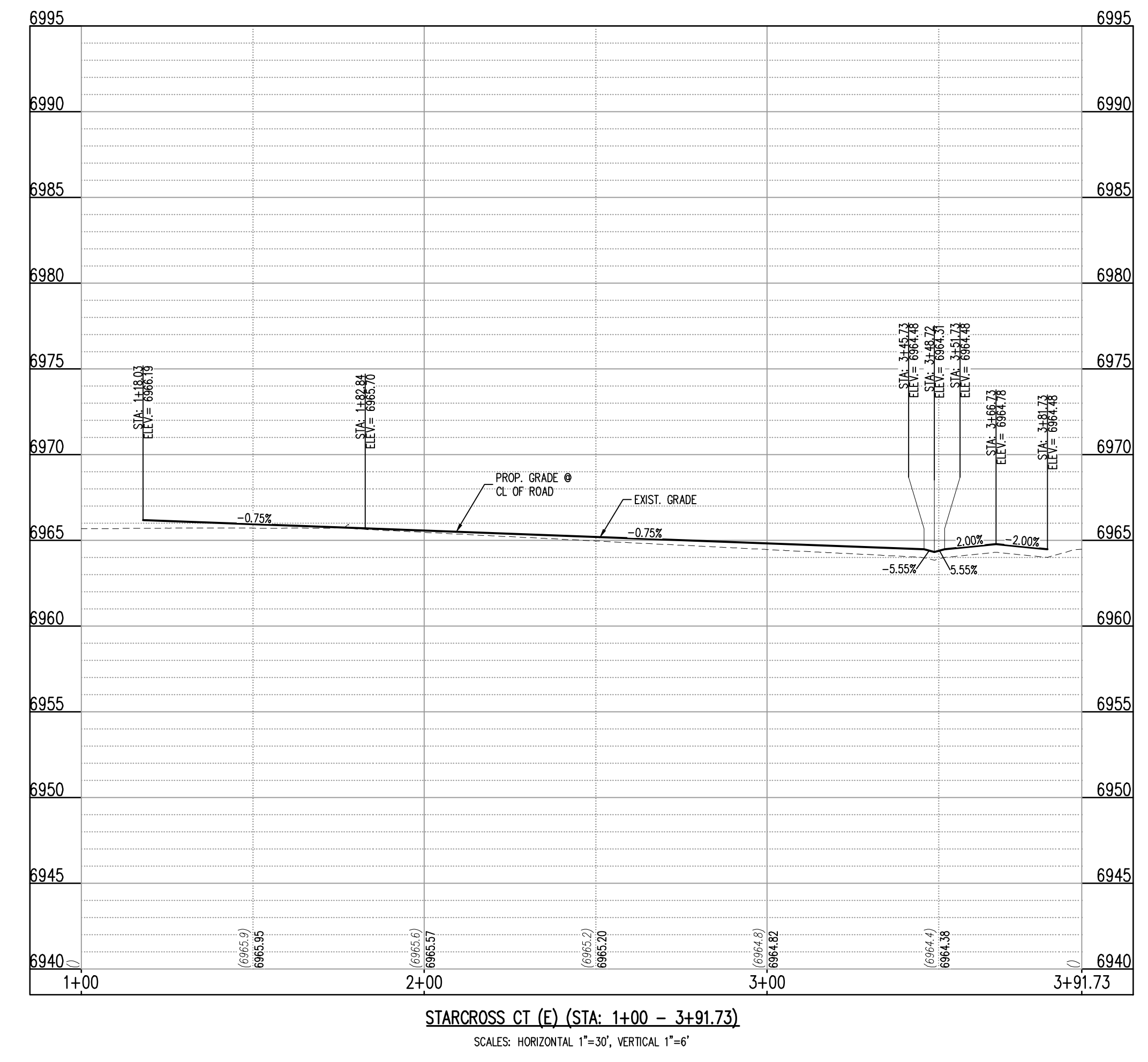
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Provide a copy of the recorded easement at the pre-construction meeting.

NOTED AND LABEL HAS BEEN REVISED



10/14/2022 10:43:00 AM C:\Users\jmorris\OneDrive\Desktop\Grandview Reserve\11555KellyJohnsonBldg\11555KellyJohnsonBldg\_C1.ctb

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EL PASO COUNTY, FALCON, CO 80831

#	Date	Issue / Description	Init.

Project No:	HRG02
Drawn By:	JDM
Checked By:	RGD
Date:	10/14/2022

ROADWAY P&P



KEYMAP  
SCALE: 1"=500'

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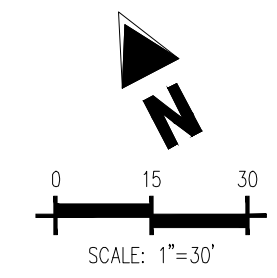
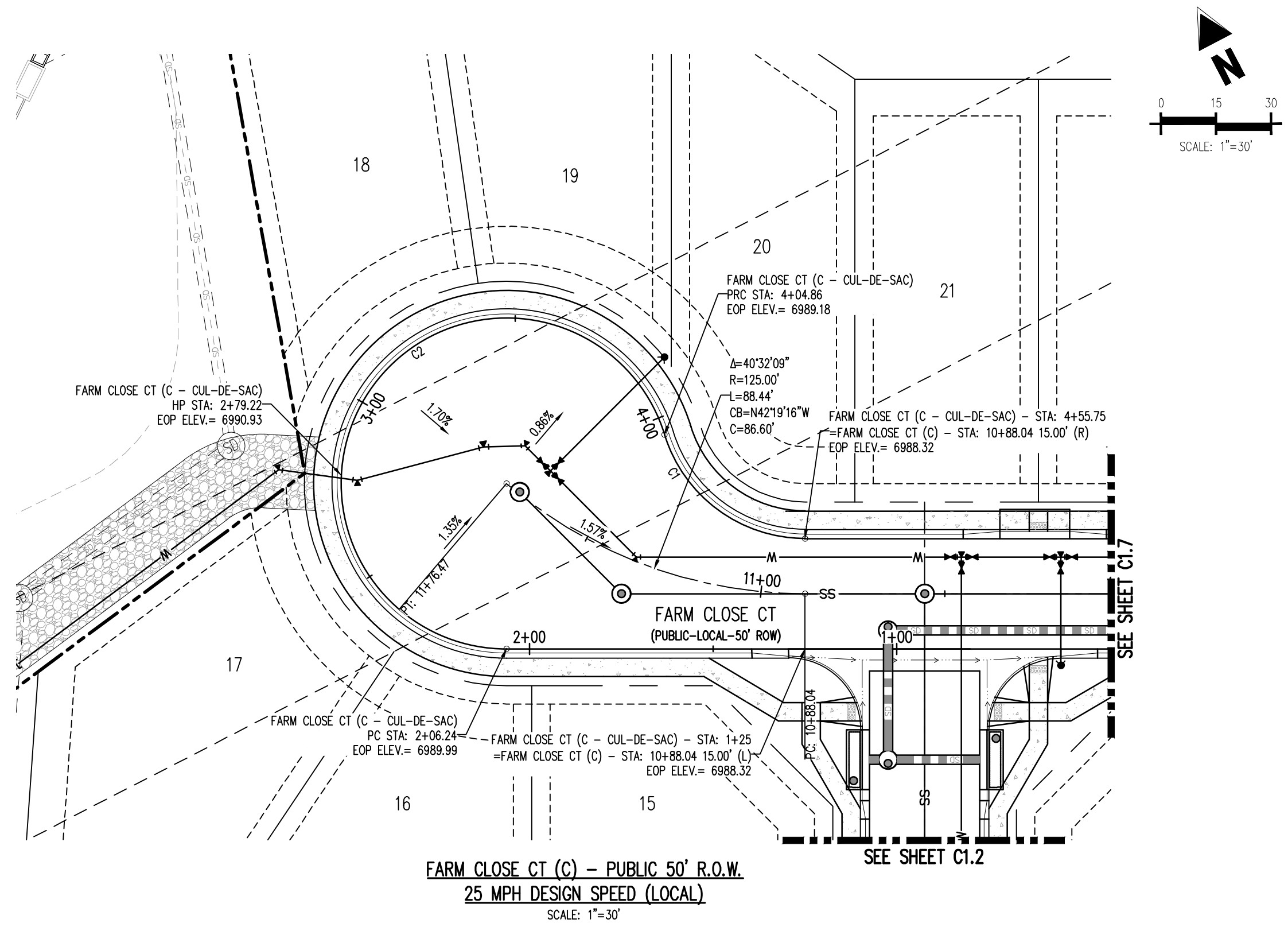
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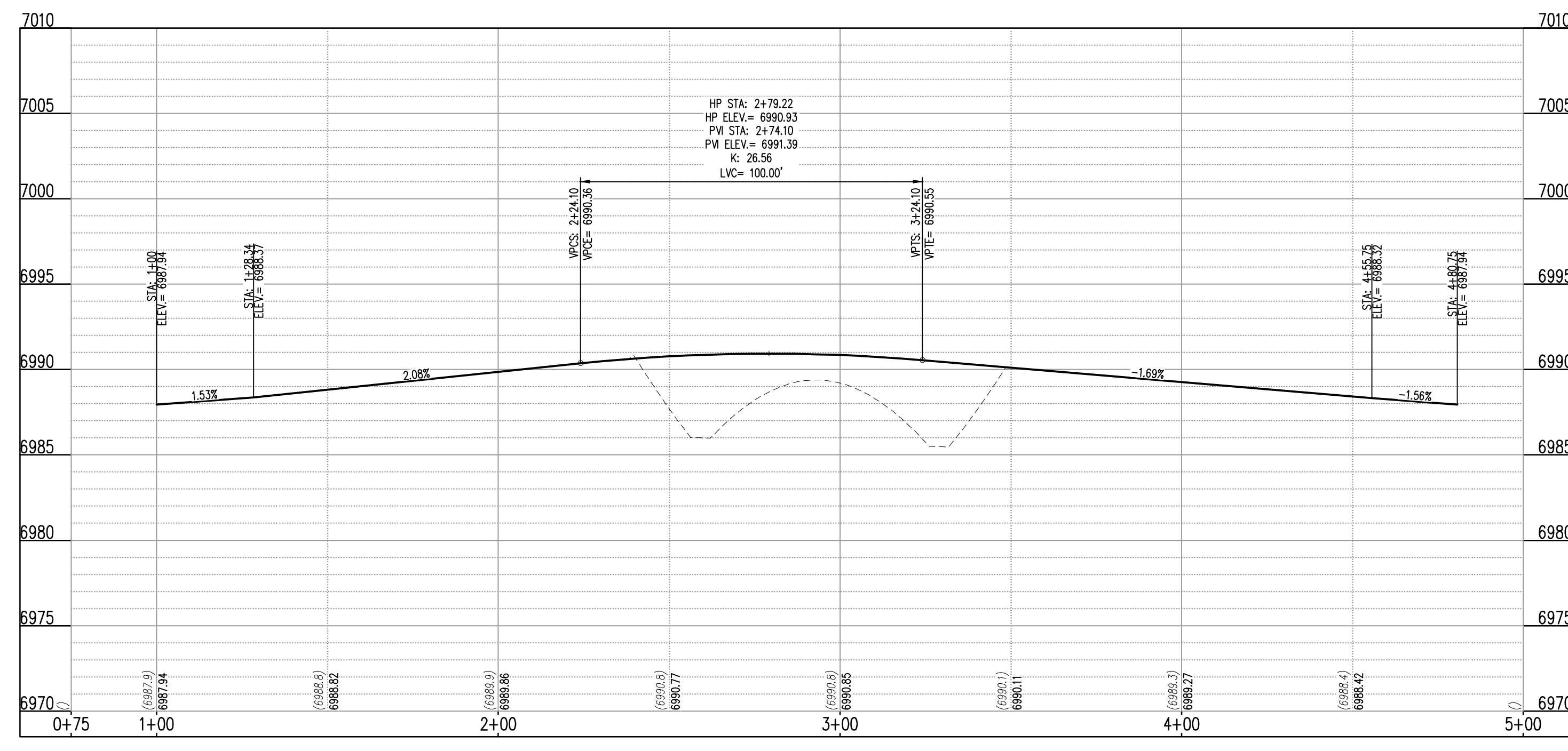
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CURVE TAG #	DELTA	LENGTH (FT)	RADIUS (FT)	CHORD BEARING	CHORD LENGTH (FT)
C1	72°53'43"	50.89	40.00	S26°06'29"E	47.53
C2	252°53'43"	198.62	45.00	N63°51'31"E	72.40

NOTE: ALIGNMENT AND PROFILE IS ALONG EDGE OF PAVEMENT



MILL YARD CIR (C) (STA: 8+50 - 16+00)  
 SCALES: HORIZONTAL 1"=30', VERTICAL 1"=6'  
 Label does not match STA shown  
 REVISED AS REQUESTED

Vertical Datum: NAVD83. File Path: C:\Users\galloway\OneDrive\Documents\HRG02\_C11\Drawings\Roadway\Roadway\_P&P\_Sheet16.dwg. Plot Date: 10/14/2022. Plot Time: 10:02:00.



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**D·R·HORTON**  
 America's Builder

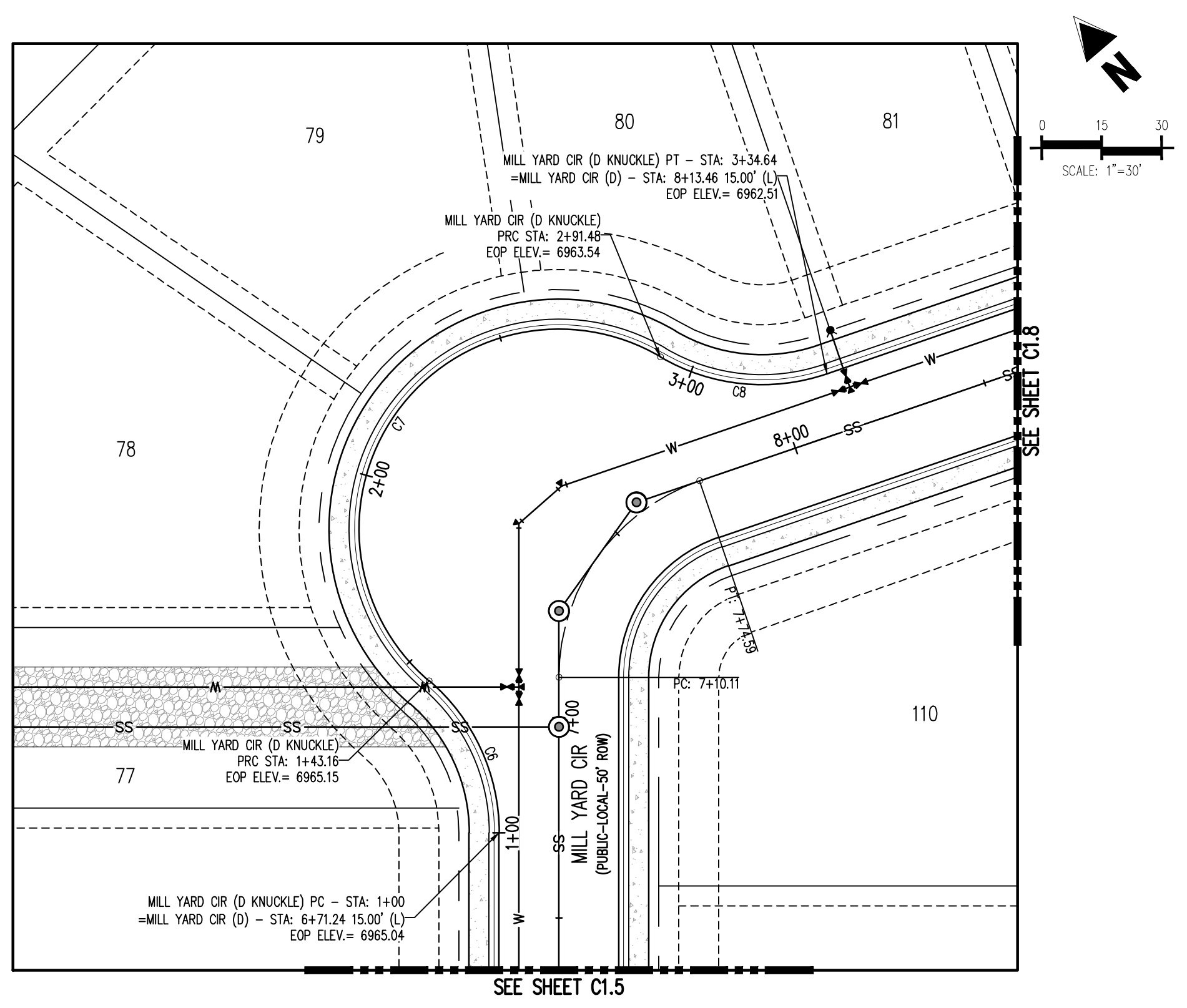
CONSTRUCTION DOCUMENTS  
 GRANDVIEW RESERVE FILING NO. 1  
 4 SITE INVESTMENTS, LLC (D.R. HORTON)  
 SF-22-XXX

EASTONVILLE RD & REX RD  
 EL PASO COUNTY, FALCON, CO 80831

#	Date	Issue / Description	Init.

Project No: HRC02  
 Drawn By: JDM  
 Checked By: RGD  
 Date: 10/14/2022

ROADWAY P&P  
**C1.12**  
 Sheet 17 of 29

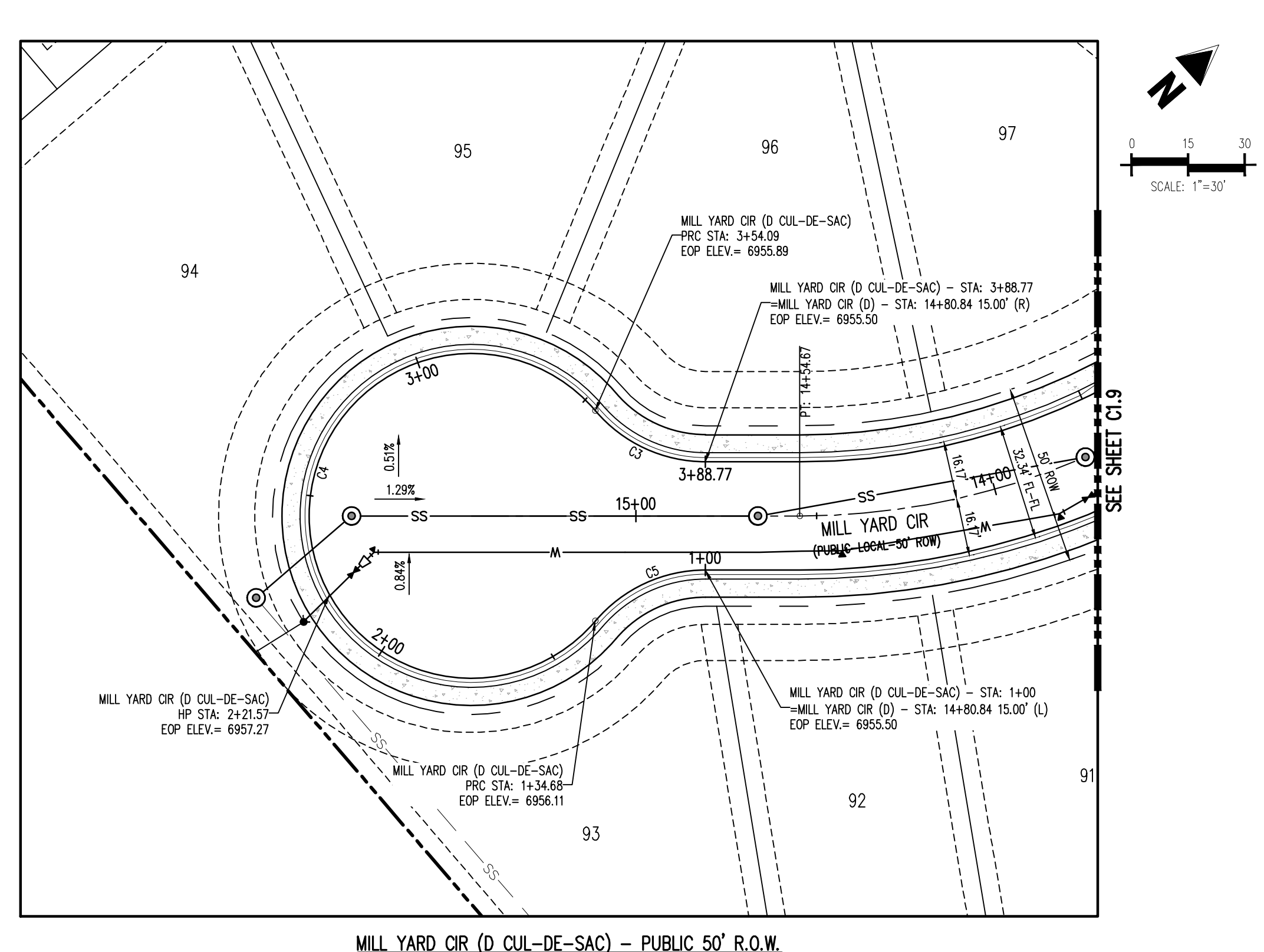


**MILL YARD CIR (D KNUCKLE) - PUBLIC 50' R.O.W.  
 25 MPH DESIGN SPEED (LOCAL)**  
 SCALE: 1"=30'

**EDGE OF PAVEMENT CURVE SEGMENT TABLE**

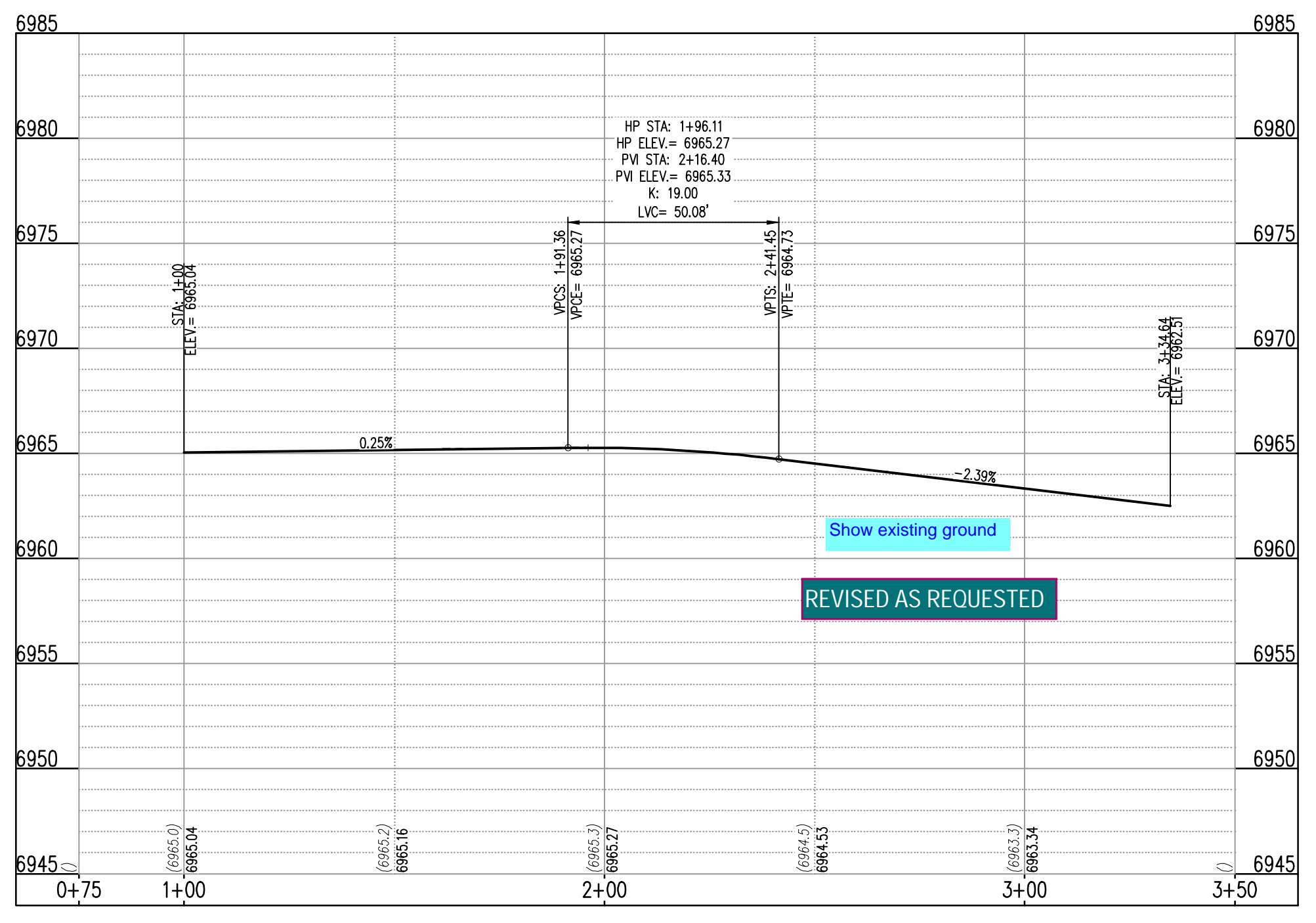
CURVE TAG #	DELTA	LENGTH (FT)	RADIUS (FT)	CHORD BEARING	CHORD LENGTH (FT)
C3	49°40'47"	34.68	40.00	N65°40'49"E	33.61
C4	278°21'34"	219.41	45.00	N49°09'36"W	58.24
C5	49°40'47"	34.68	40.00	S16°01'01"W	33.61
C6	49°27'30"	43.16	50.00	N16°06'40"E	41.83
C7	169°57'48"	148.32	50.00	N76°21'49"E	99.62
C8	49°27'30"	43.16	50.00	S43°23'02"E	41.83

NOTE: ALIGNMENT AND PROFILE IS ALONG EDGE OF PAVEMENT

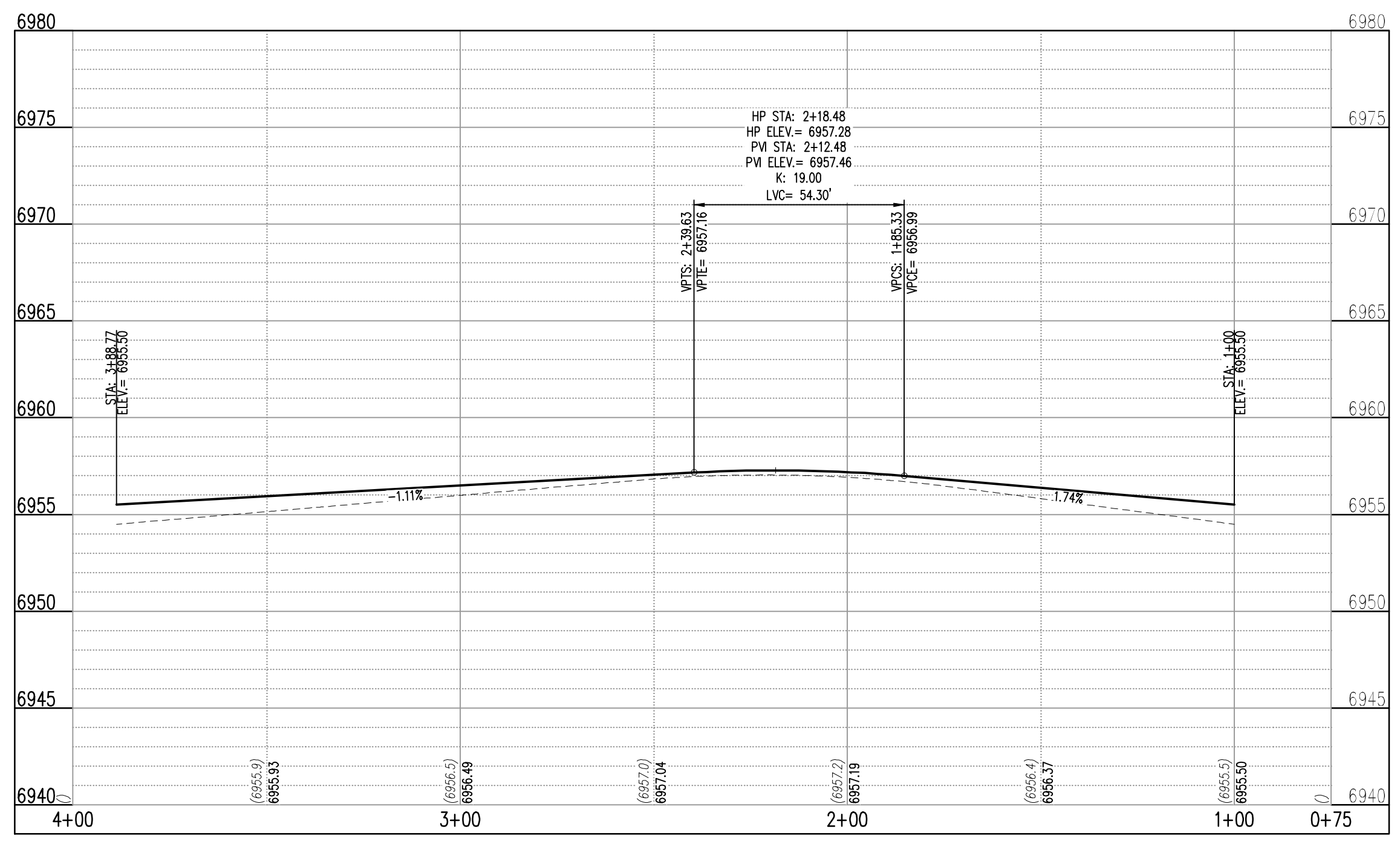


**MILL YARD CIR (D CUL-DE-SAC) - PUBLIC 50' R.O.W.  
 25 MPH DESIGN SPEED (LOCAL)**  
 SCALE: 1"=30'

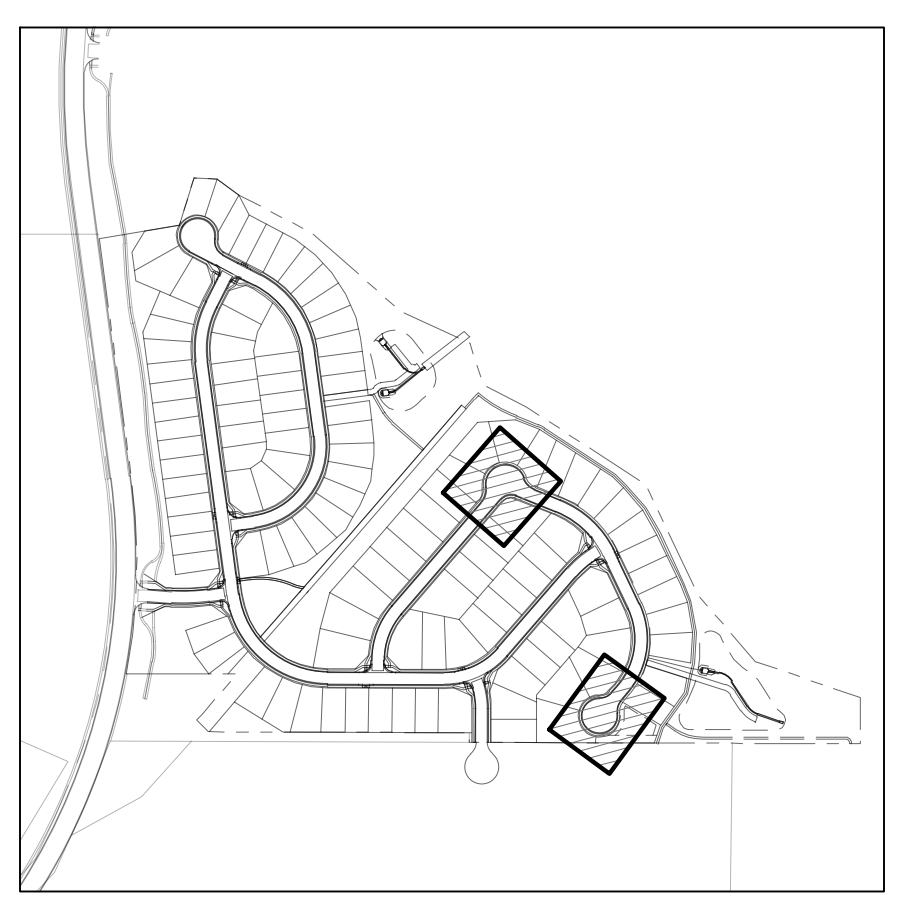
NOTE: ALIGNMENT AND PROFILE IS ALONG EDGE OF PAVEMENT



**MILL YARD CIR (D) (STA: 8+50 - 16+00)**  
 SCALES: HORIZONTAL 1"=30', VERTICAL 1"=6'



**MILL YARD CIR (D) (STA: 8+50 - 16+00)**  
 SCALES: HORIZONTAL 1"=30', VERTICAL 1"=6'



**KEYMAP**  
 SCALE: 1"=500'

**SITE LEGEND**

- PROPERTY BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY LINE
- RIGHT OF WAY BOUNDARY LINE
- SECTION LINE
- EXISTING ADJACENT LOT LINE
- PROPOSED LOT LINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- ROAD CENTERLINE
- PROPOSED RIDGE LINE
- PROPOSED SWALE LINE
- EXISTING SWALE LINE
- EXISTING SWALE LINE
- FLOODPLAIN BOUNDARY
- EXISTING FLOOD ZONE
- EXISTING FLOOD ZONE SETBACK
- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- PROPOSED SIDEWALK
- PROPOSED TRAIL
- PROPOSED GRAVEL PER EGM TABLE D-7
- RIPRAP OUTFALL PADS
- EXISTING SIGN
- PROPOSED SIGN
- PROPOSED CONCRETE
- EXISTING CONCRETE

- NOTES**
- ALIGNMENT AND PROFILES ARE IN RELATION TO THE CENTERLINE OF ROADWAY. THEREFORE STORM SEWER MANHOLES RIMS AND INLETS MAY APPEAR TO NOT MEET FINISH GRADE.
  - STORM SEWER RBC ELEVATIONS ON ALL STORM DRAIN CURB INLETS ARE LOCATED AT THE MIDDLE. CONTRACTOR TO ENSURE THE INLET MATCHES THE SLOPE OF THE ADJACENT ROADWAY CENTER LINE.
  - ALL STORM SEWER PIPING SHALL USE WATER TIGHT JOINTS.
  - SEE GRADING PLAN FOR ALL GRADING INFORMATION
  - ALL STORM SEWER SHALL BE CLASS III RCP
  - ALL STORM SEWER MANHOLES SHALL BE TYPE 1 UNLESS OTHERWISE NOTED
- (A) PEDESTRIAN RAMP, SEE DETAILS (EPC SD\_2-40 & SD\_2-41)
- (B) PROPOSED 10' CURB TRANSITION
- (C) PROPOSED 5' CURB TRANSITION
- (D) PROPOSED 6" CONCRETE CROSS PAN, SEE DETAIL (EPC SD\_2-26)

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.

MAINTAIN MINIMUM 18" VERTICAL AND 10" HORIZONTAL SEPARATION BETWEEN STORM SEWER AND POTABLE WATER OR WASTEWATER. A 12" VERTICAL CLEARANCE MUST BE MAINTAINED BETWEEN IRRIGATION LINES.

SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONING PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION WORK.

**BASIS OF BEARING**  
 THE NORTH LINE OF SECTION 28, TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, EL PASO COUNTY, STATE OF COLORADO BEING MONUMENTED AT EACH END BY A 3/4" ALUMINUM SURVEYORS CAP STAMPED "PNSC LS 30087" AND ASSUMED TO BEAR S89°47'04"E, A DISTANCE OF 5285.07 FEET.

**BENCHMARK**  
 NCS BENCHMARK F 24  
 A STANDARD DISK, STAMPED F 24 1929 AND SET IN THE TOP OF A CONCRETE POST PROJECTING ABOUT 6 INCHES ABOVE GROUND, ALONG THE CHICAGO, ROCK ISLAND AND PACIFIC RAILROAD, 52 FEET NORTHWEST OF THE CENTERLINE OF U.S. HIGHWAY 24, 48 FEET SOUTHWEST OF THE CENTERLINE OF THE TRACK.  
 NAVD88 ELEVATION = 6866.33

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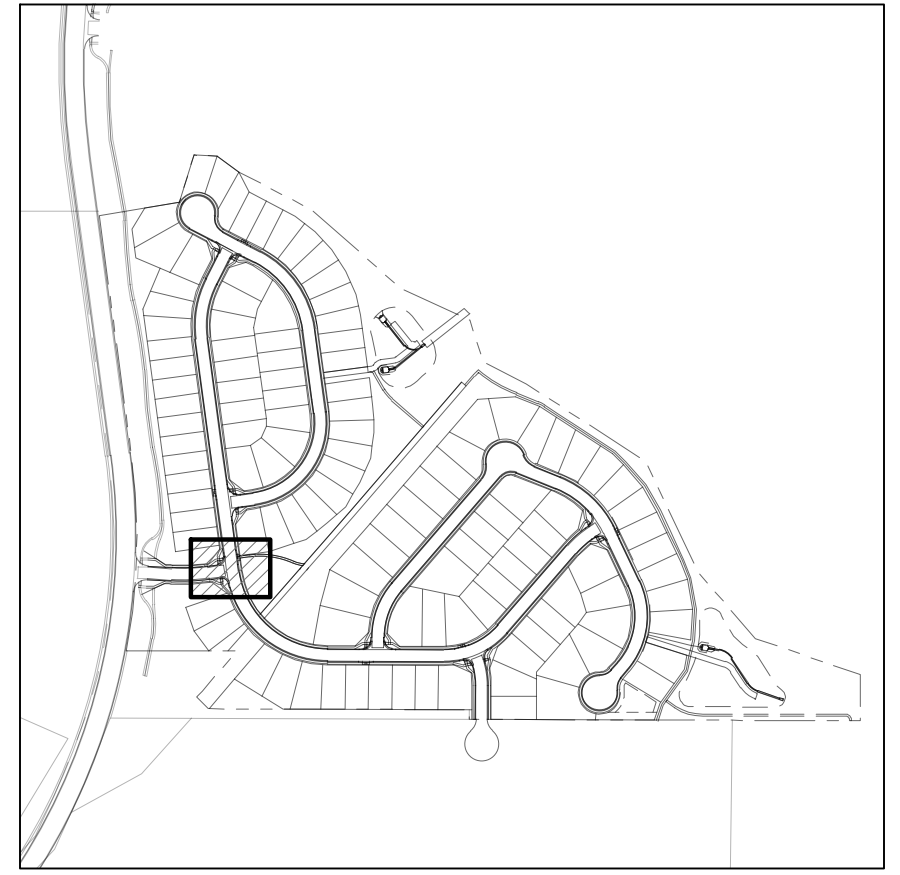
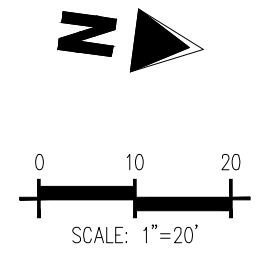
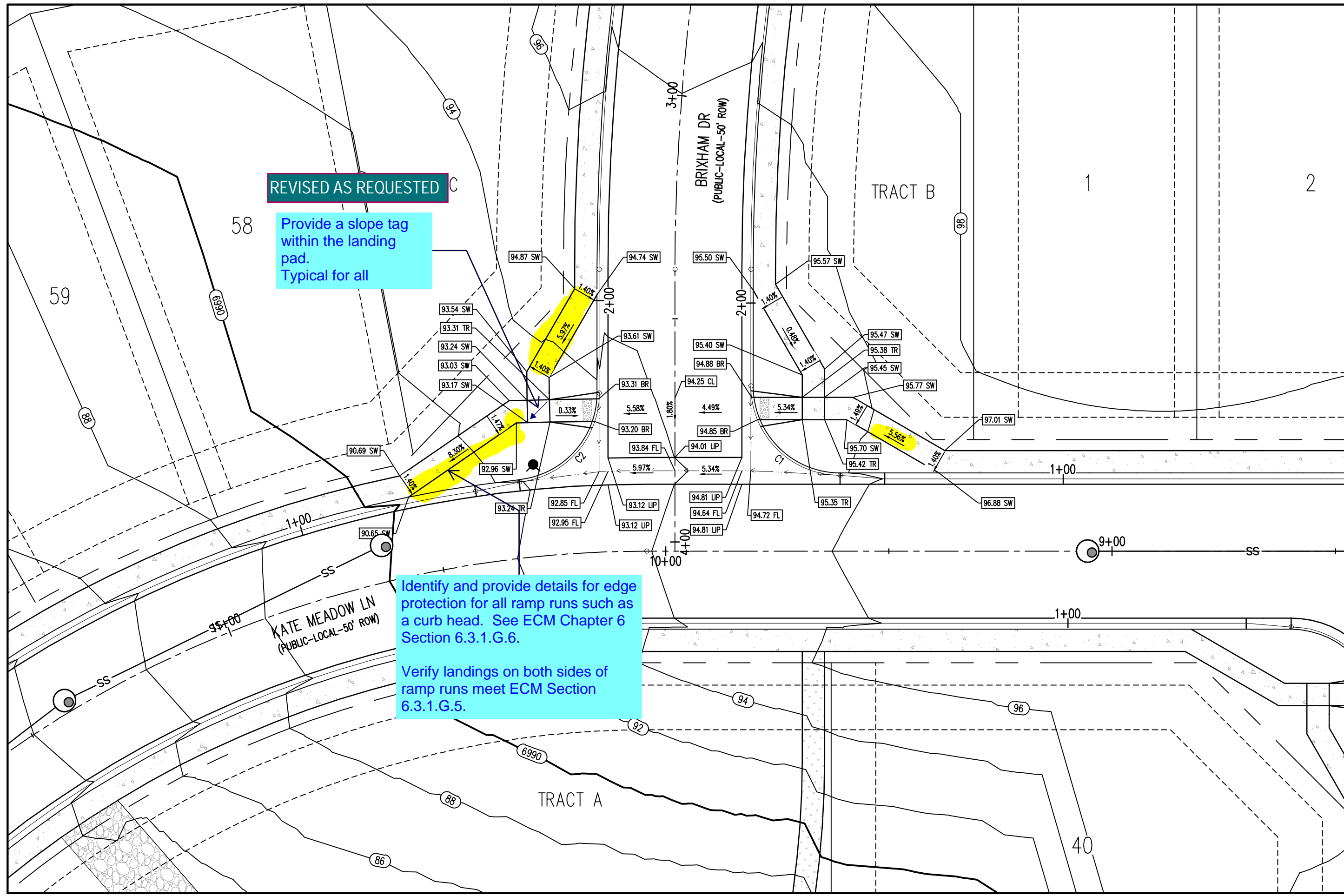


#	Date	Issue / Description	Init.

Project No:	HRG02
Drawn By:	JDM
Checked By:	RGD
Date:	10/14/2022

INTERSECTION DETAIL

**C2.1**  
 Sheet 18 of 29



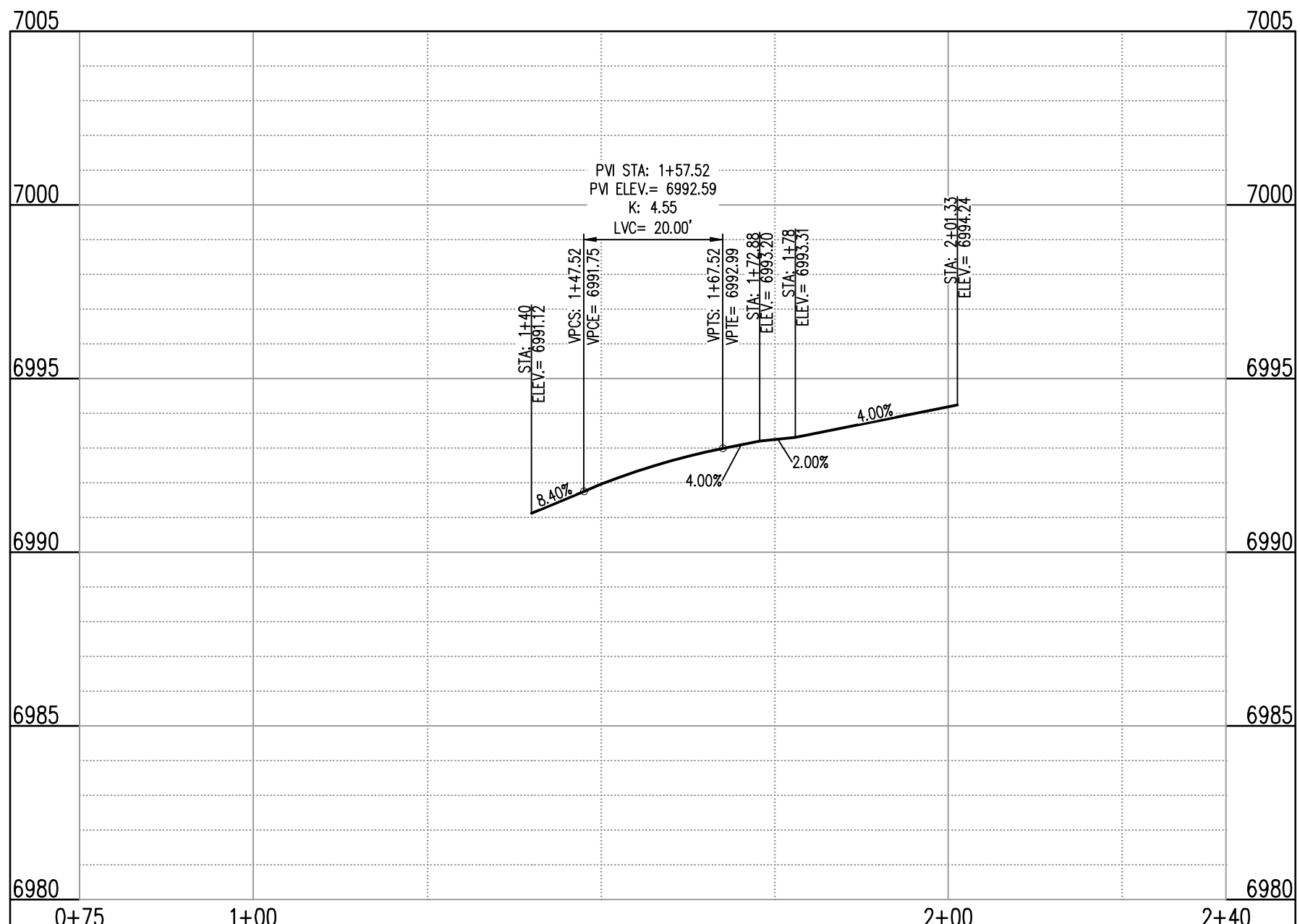
**DETAIL GRADING LEGEND**

- PROPERTY BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY LINE
- RIGHT OF WAY BOUNDARY LINE
- PROPOSED LOT LINE
- PROPOSED EASEMENT LINE
- ROAD CENTERLINE
- PROPOSED SWALE FLOWLINE
- PROPOSED CURB AND GUTTER
- PROPOSED SIDEWALK
- PROPOSED MAJOR CONTOUR (e.g., 66, 65, 64)
- PROPOSED MINOR CONTOUR (e.g., 2.00%
- PROPOSED SLOPE - PERCENT (e.g., 4:1)
- PROPOSED SLOPE - RISE/RUN (e.g., 89.00 HP)
- PROPOSED SPOT ELEVATION - HIGH POINT
- PROPOSED SPOT ELEVATION - LOW POINT (e.g., 89.00 LP)
- PROPOSED SPOT ELEVATION - TOP OF RAMP (e.g., 89.00 TR)
- PROPOSED SPOT ELEVATION - BOTTOM OF RAMP (e.g., 89.00 BR)
- PROPOSED SPOT ELEVATION - FLOW LINE (e.g., 89.00 FL)
- PROPOSED SPOT ELEVATION - ROADWAY CENTER LINE (e.g., 89.00 CL)
- PROPOSED SPOT ELEVATION - TOP BACK OF CURB (e.g., 89.00 TBC)
- PROPOSED SPOT ELEVATION - LIP OF GUTTER (e.g., 89.00 LIP)
- PROPOSED SPOT ELEVATION - FINISHED GRADE (e.g., 89.00 FG)
- PROPOSED SPOT ELEVATION - SIDEWALK (e.g., 89.00 SW)
- PROPOSED SPOT ELEVATION - EDGE OF CONCRETE (e.g., 89.00 EOC)
- PROPOSED SPOT ELEVATION - EDGE OF ASPHALT (e.g., 89.00 EOA)

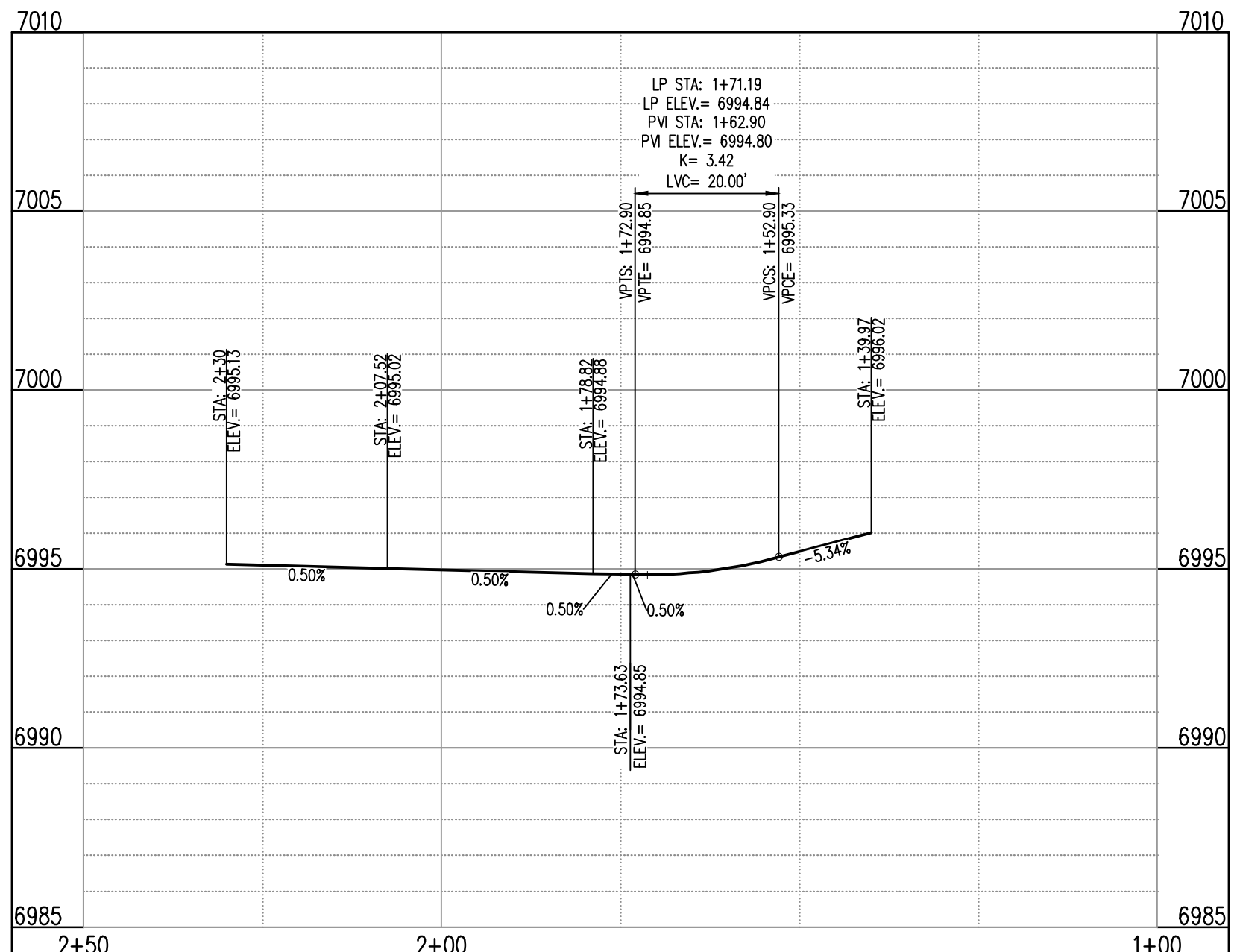
**BRIXHAM DR (A) & KATE MEADOW LN (B) - PUBLIC 50' R.O.W.  
 25 MPH DESIGN SPEED (LOCAL)**  
 SCALE: 1"=20'

**FLOW LINE CURVE SEGMENT TABLE**

CURVE TAG #	DELTA	LENGTH (FT)	RADIUS (FT)	CHORD BEARING	CHORD LENGTH (FT)
C1	90°00'00"	31.42	20.00	S37°19'41"W	28.28
C2	83°52'07"	28.28	20.00	N55°44'14"W	26.73



**ST-A & ST-B (LT) (STA: 0+75 - 2+40)**  
 SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'



**ST-A & ST-B (RT) (STA: 1+00 - 2+50)**  
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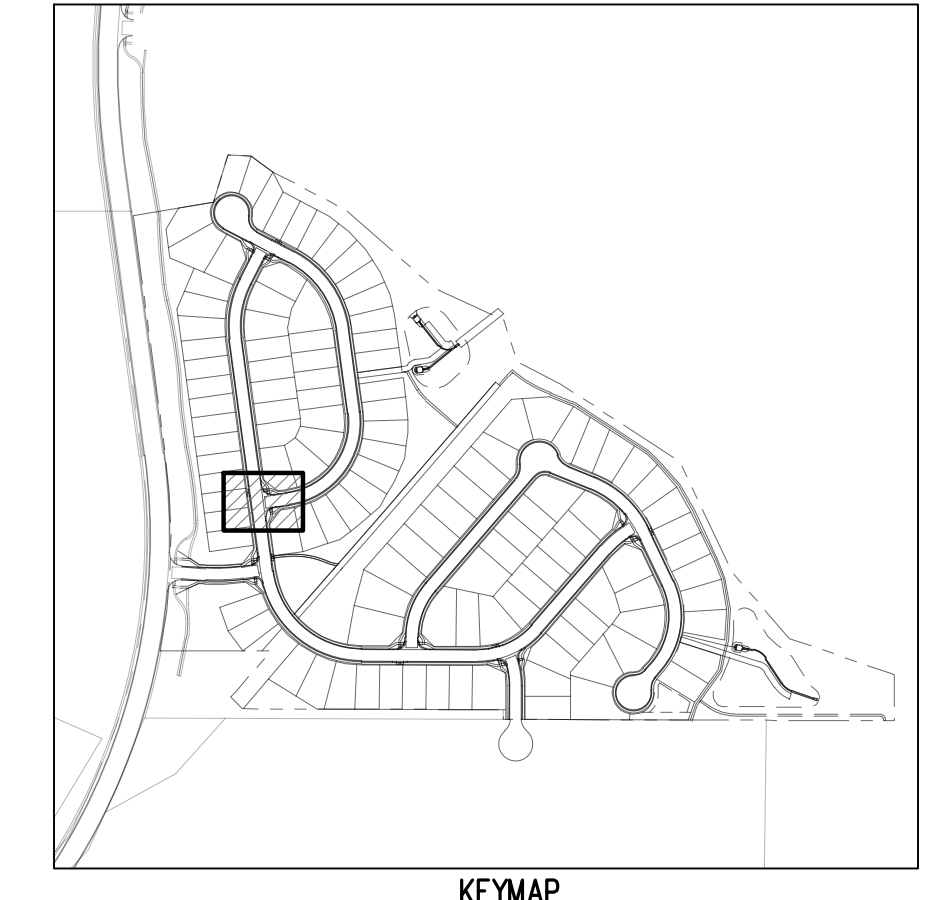
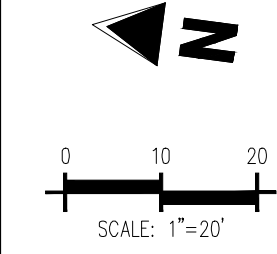
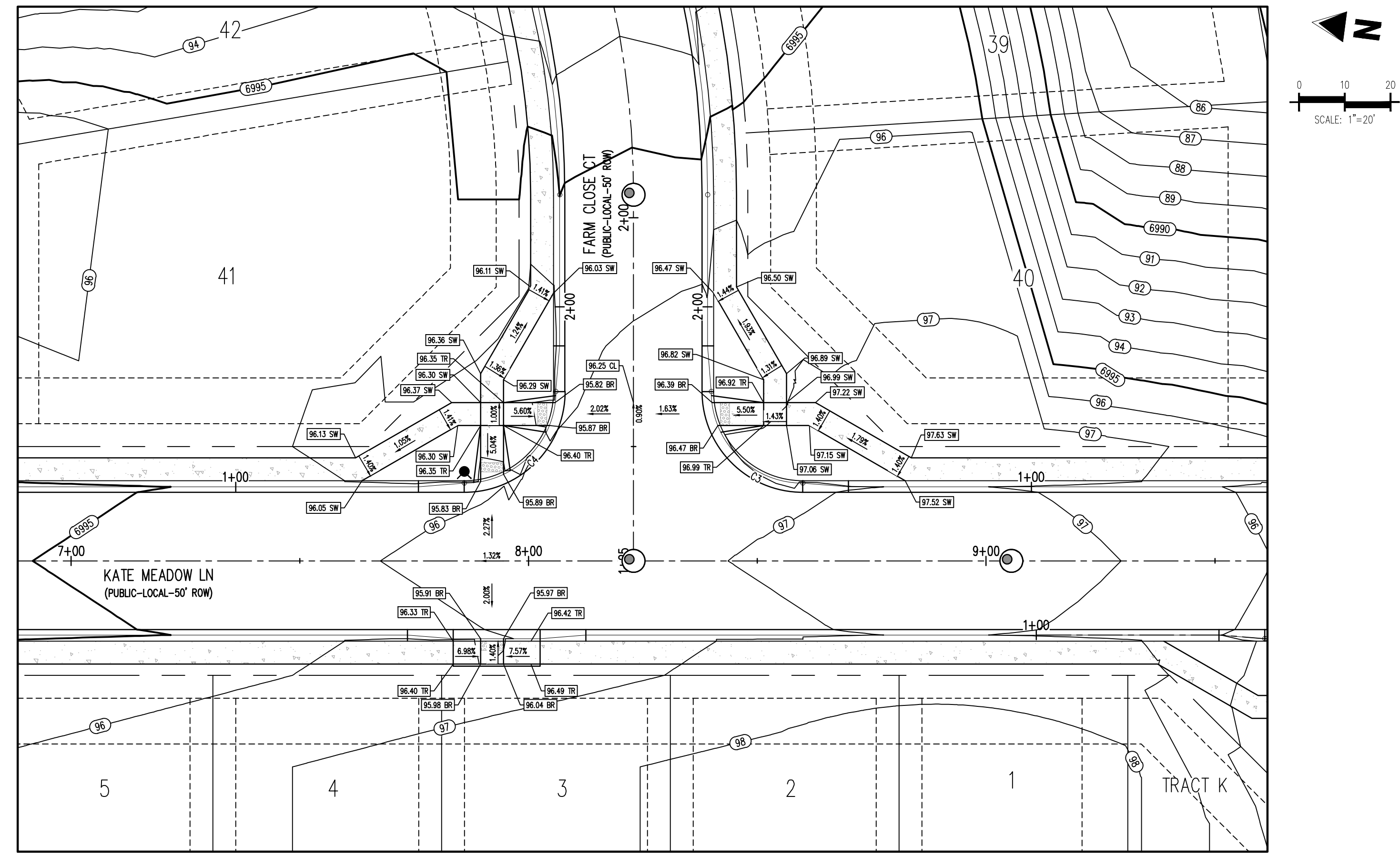
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 NAVD88 ELEVATION = 6866.33

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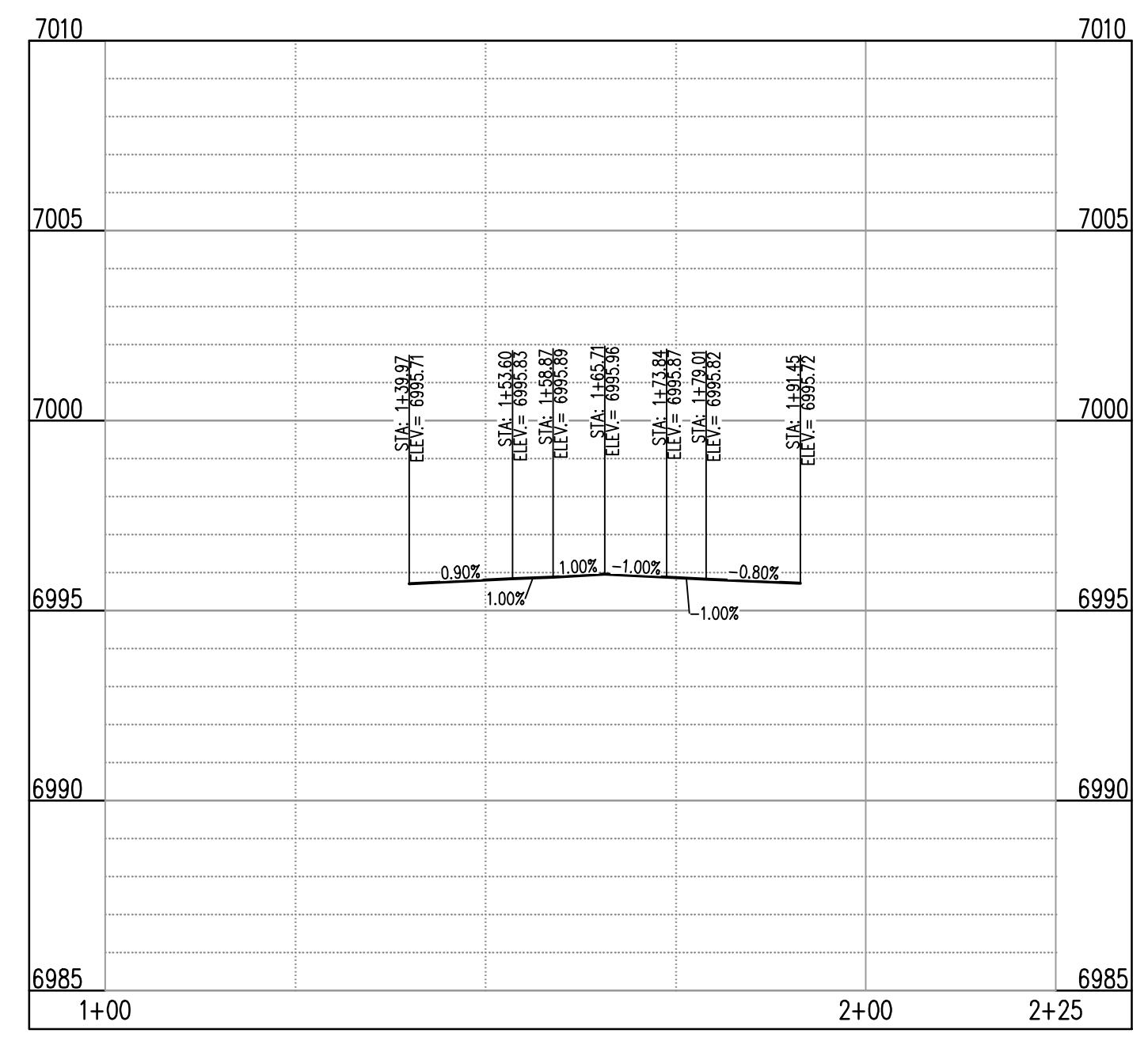
### DETAIL GRADING LEGEND

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- ADJACENT PROPERTY BOUNDARY LINE
- - - RIGHT OF WAY BOUNDARY LINE
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- ROAD CENTERLINE
- PROPOSED SWALE FLOWLINE
- PROPOSED CURB AND GUTTER
- PROPOSED SIDEWALK
- PROPOSED MAJOR CONTOUR (3485)
- PROPOSED MINOR CONTOUR (66)
- 2.00% PROPOSED SLOPE - PERCENT
- 4:1 PROPOSED SLOPE - RISE/RUN
- 89.00 HP PROPOSED SPOT ELEVATION - HIGH POINT
- 89.00 LP PROPOSED SPOT ELEVATION - LOW POINT
- 89.00 TR PROPOSED SPOT ELEVATION - TOP OF RAMP
- 89.00 BR PROPOSED SPOT ELEVATION - BOTTOM OF RAMP
- 89.00 FL PROPOSED SPOT ELEVATION - FLOW LINE
- 89.00 CL PROPOSED SPOT ELEVATION - ROADWAY CENTER LINE
- 89.00 TBC PROPOSED SPOT ELEVATION - TOP BACK OF CURB
- 89.00 LIP PROPOSED SPOT ELEVATION - LIP OF GUTTER
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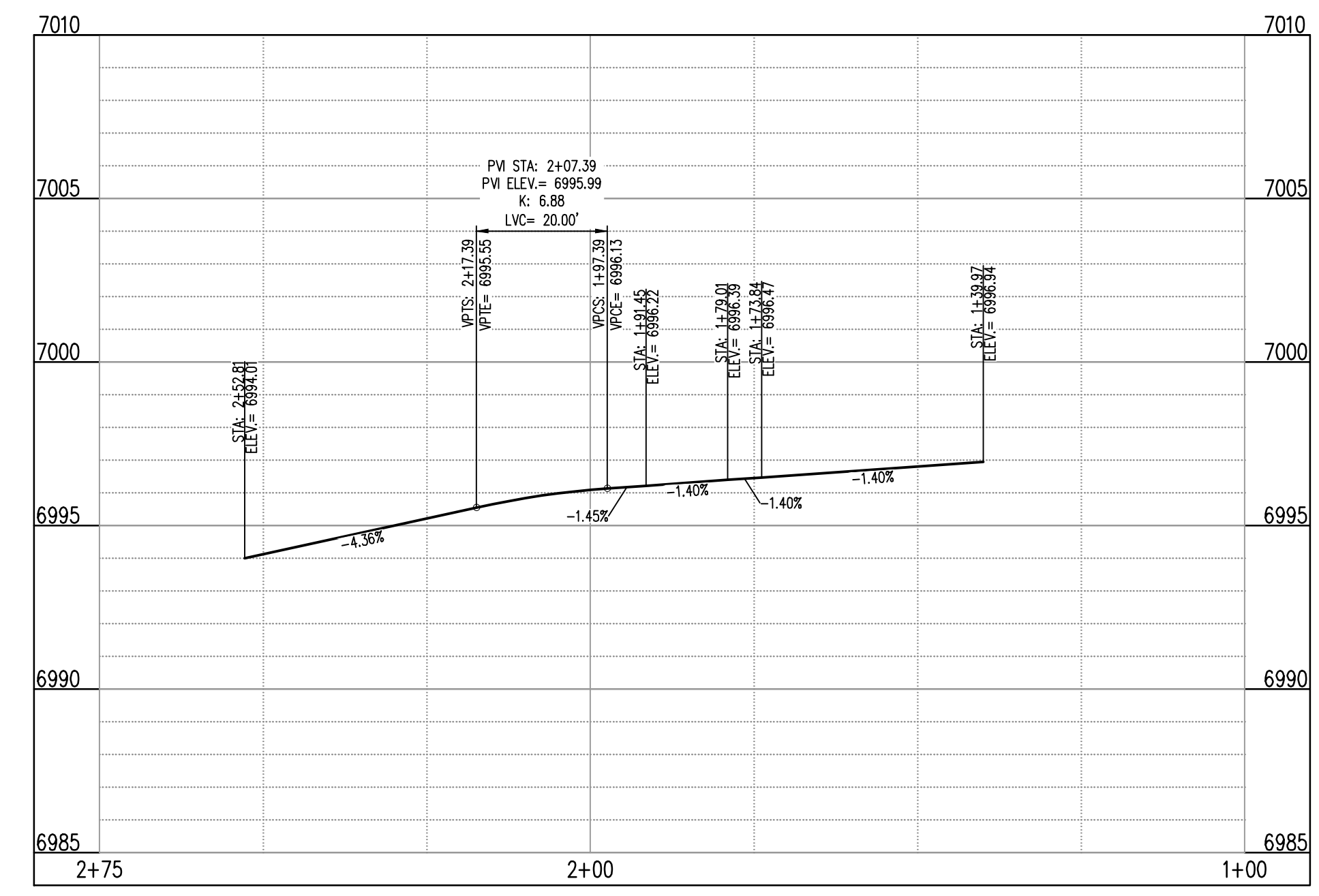
**KATE MEADOW LN (B) & FARM CLOSE CT (C) - PUBLIC 50' R.O.W.**  
**25 MPH DESIGN SPEED (LOCAL)**  
SCALE: 1"=20'

#### FLOW LINE CURVE SEGMENT TABLE

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**ST-C & ST-B (LT) (STA: 1+00 - 2+25)**  
SCALE: HORIZONTAL 1"=20', VERTICAL 1"=4'



**ST-C & ST-B (RT) (STA: 1+00 - 2+75)**  
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CONSTRUCTION DOCUMENTS  
GRANDVIEW RESERVE FILING NO. 1  
4 SITE INVESTMENTS, LLC (D.R. HORTON)  
SF-22-XXX

EASTONVILLE RD & REX RD  
EL PASO COUNTY, FALCON, CO 80831

#	Date	Issue / Description	Init.

Project No: HRC02  
Drawn By: JDM  
Checked By: RGD  
Date: 10/14/2022

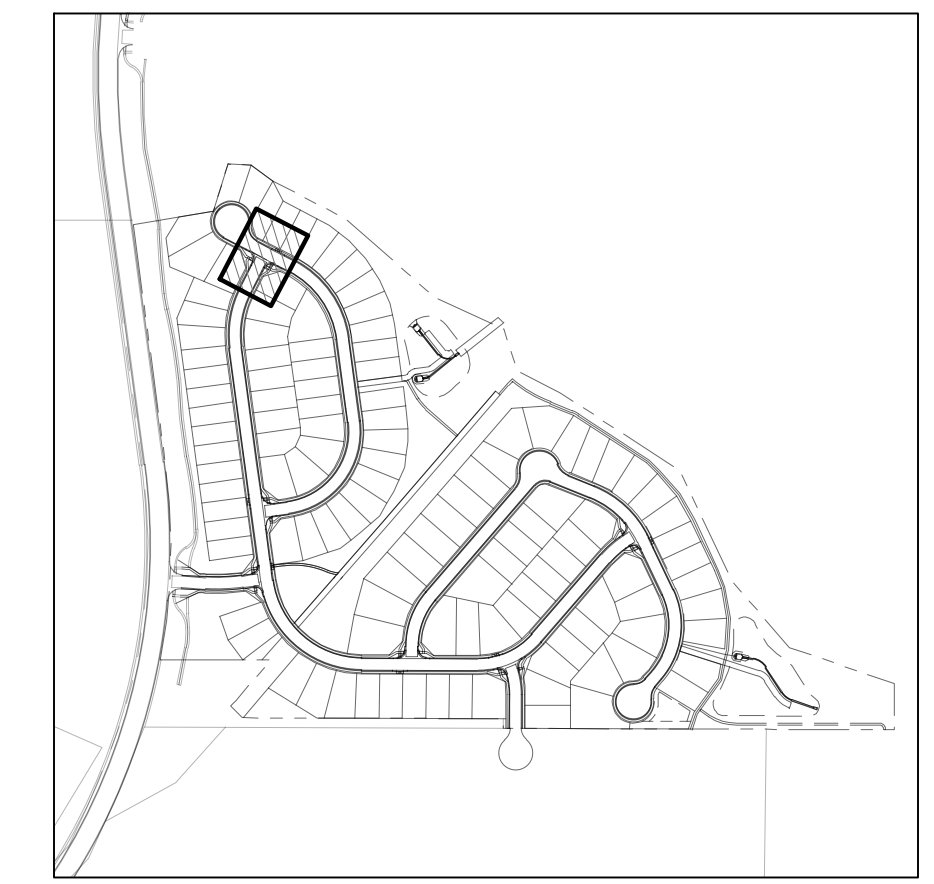
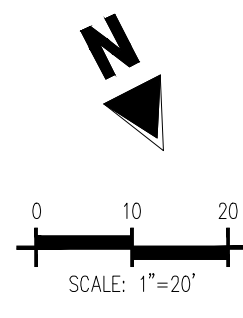
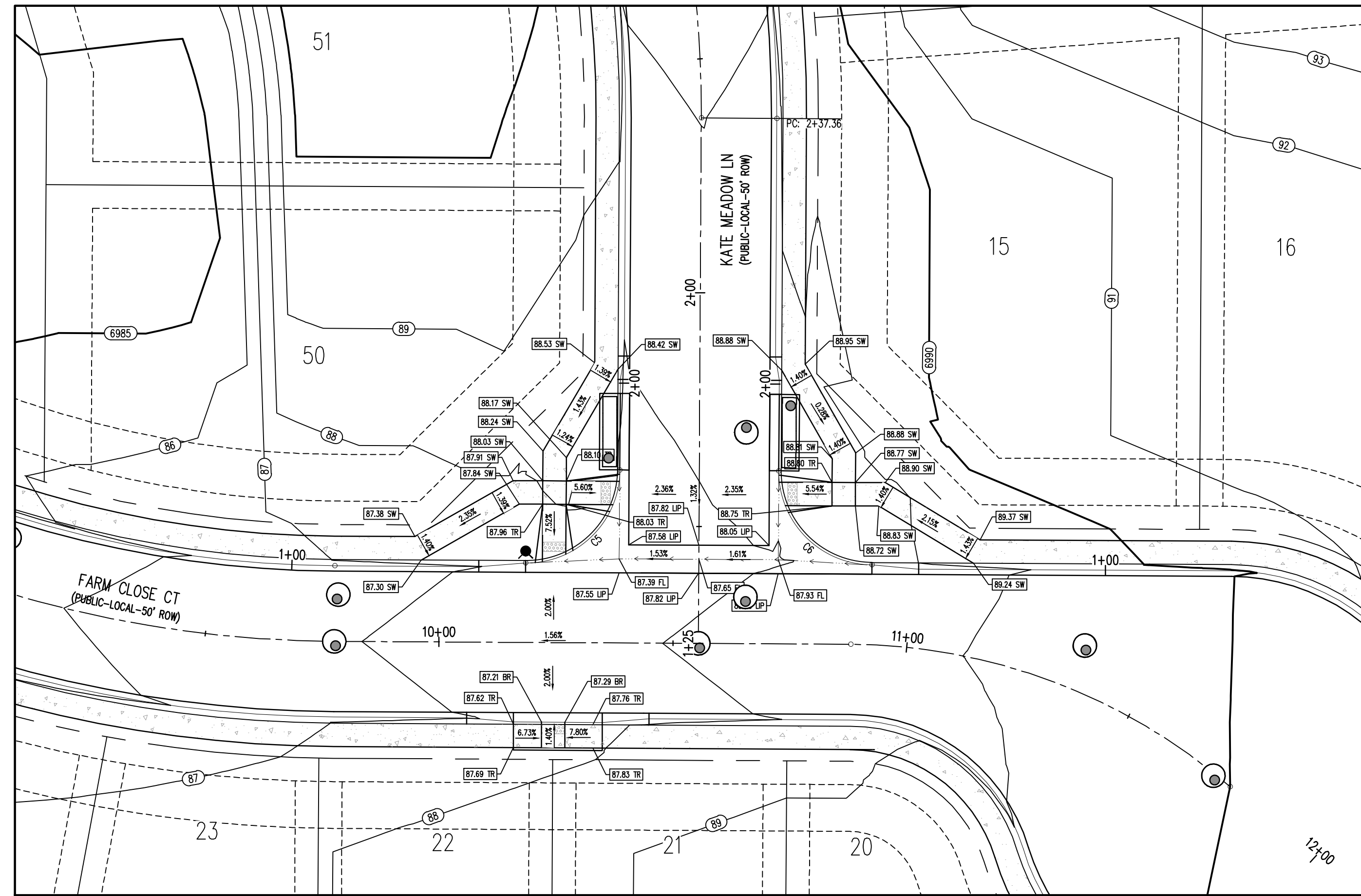
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 EL PASO COUNTY, FALCON, CO 80831



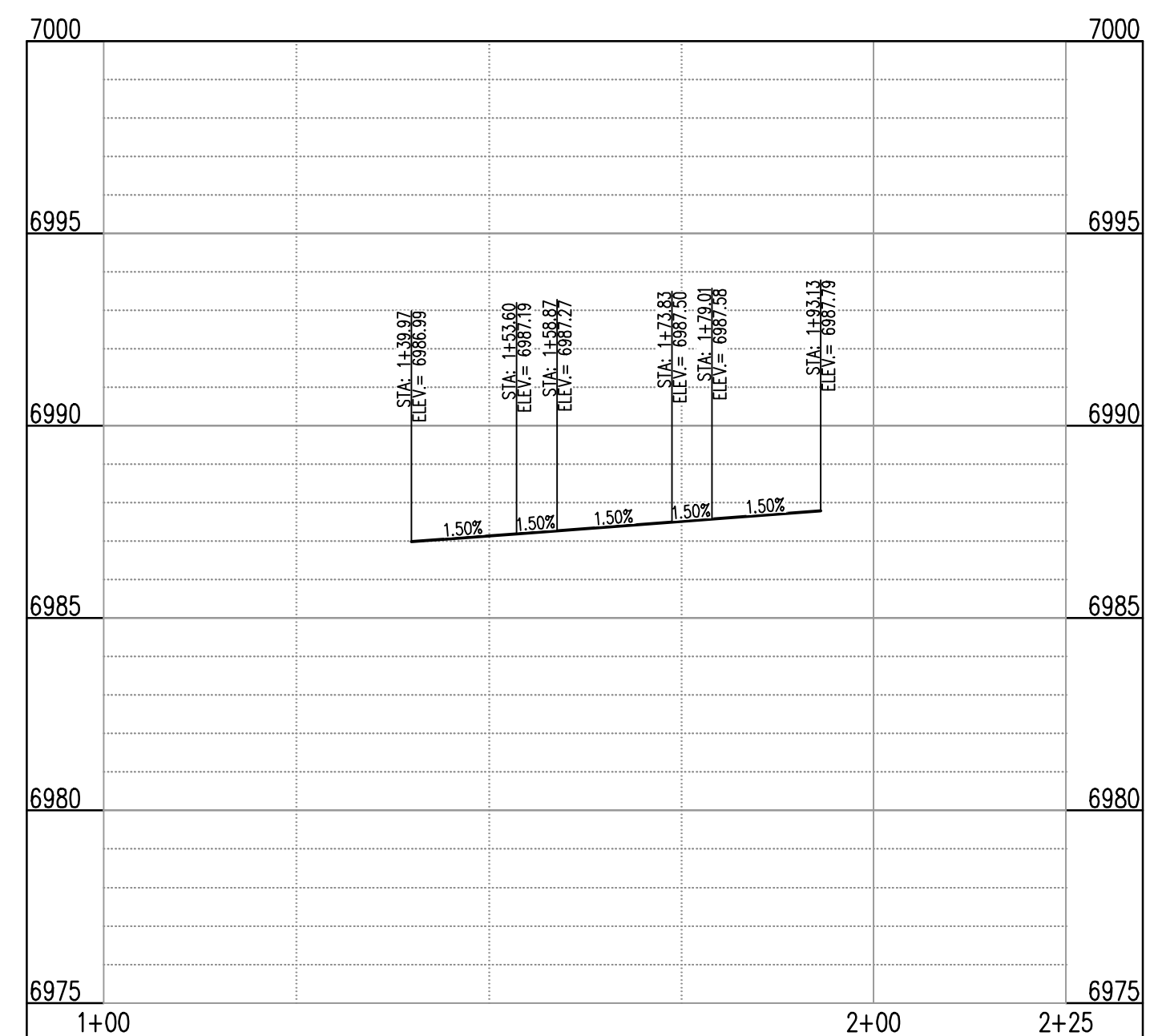
**DETAIL GRADING LEGEND**

---	PROPERTY BOUNDARY LINE
---	ADJACENT PROPERTY BOUNDARY LINE
---	RIGHT OF WAY BOUNDARY LINE
- - - -	PROPOSED LOT LINE
- - - -	PROPOSED EASEMENT LINE
---	ROAD CENTERLINE
---	PROPOSED SWALE FLOWLINE
---	PROPOSED CURB AND GUTTER
---	PROPOSED SIDEWALK
---	PROPOSED MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR
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89.00 BR	PROPOSED SPOT ELEVATION - BOTTOM OF RAMP
89.00 BR	PROPOSED SPOT ELEVATION - BOTTOM OF RAMP
89.00 FL	PROPOSED SPOT ELEVATION - FLOW LINE
89.00 CL	PROPOSED SPOT ELEVATION - ROADWAY CENTER LINE
89.00 TBC	PROPOSED SPOT ELEVATION - TOP BACK OF CURB
89.00 LIP	PROPOSED SPOT ELEVATION - LIP OF GUTTER
89.00 FG	PROPOSED SPOT ELEVATION - FINISHED GRADE
89.00 SW	PROPOSED SPOT ELEVATION - SIDEWALK
89.00 EOC	PROPOSED SPOT ELEVATION - EDGE OF CONCRETE
89.00 EOA	PROPOSED SPOT ELEVATION - EDGE OF ASPHALT

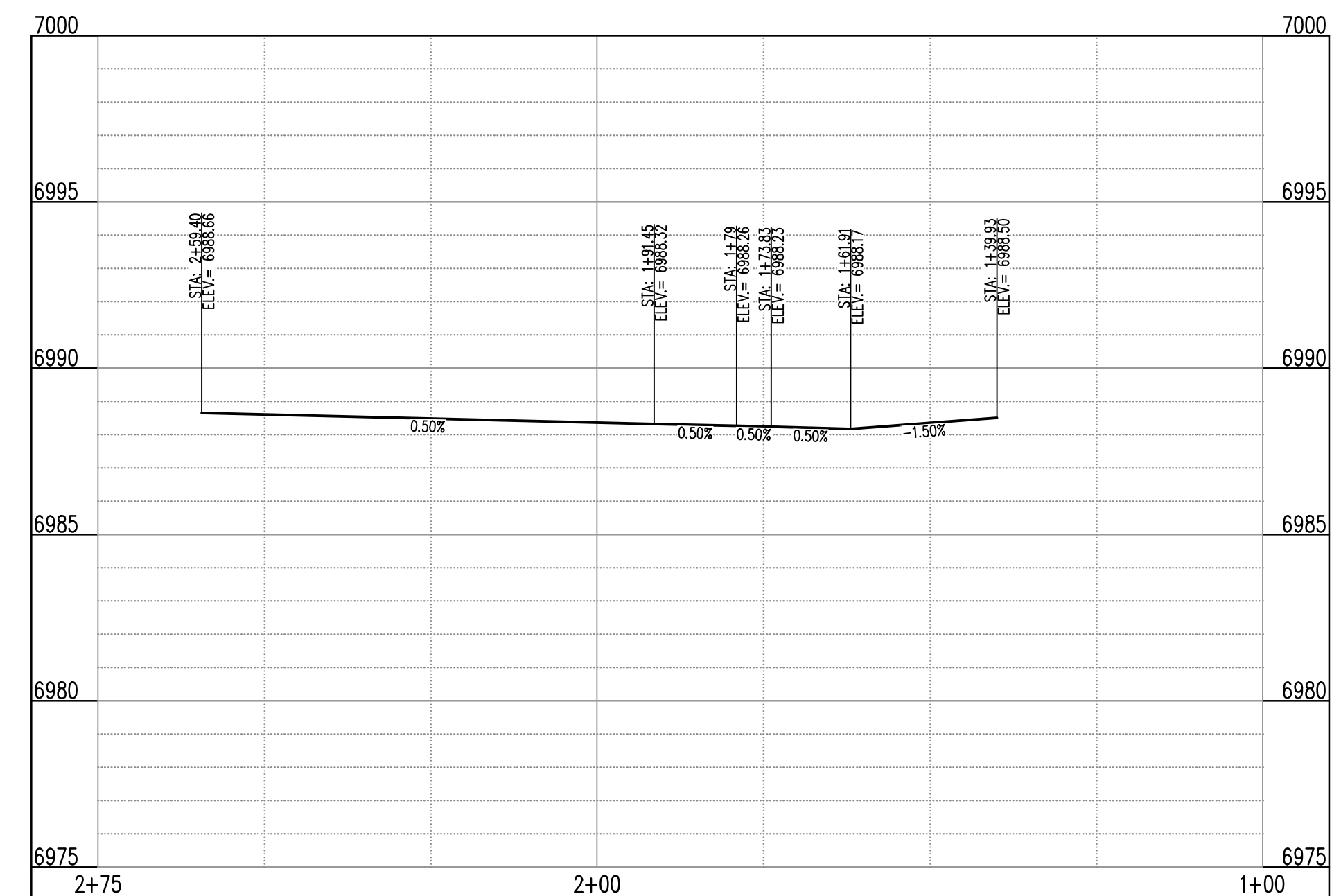
**KATE MEADOW LN (B) & FARM CLOSE CT (C) - PUBLIC 50' R.O.W.  
 25 MPH DESIGN SPEED (LOCAL)**  
 SCALE: 1"=20'

**FLOW LINE CURVE SEGMENT TABLE**

CURVE TAG #	DELTA	LENGTH (FT)	RADIUS (FT)	CHORD BEARING	CHORD LENGTH (FT)
C5	90°0'00"	31.42	20.00	S72°24'40"W	28.28
C6	90°2'02"	31.43	20.00	S17°36'21"E	28.29



**ST-B & ST-C (LT) (STA: 1+00 - 2+25)**  
 SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'



**ST-B & ST-C (RT) (STA: 1+00 - 2+75)**  
 SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

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SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONING PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION WORK.

**BASIS OF BEARING**  
 THE NORTH LINE OF SECTION 28, TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, EL PASO COUNTY, STATE OF COLORADO BEING MONUMENTED AT EACH END BY A 3/4" ALUMINUM SURVEYORS CAP STAMPED "PSINC LS 30087" AND ASSUMED TO BEAR S89°47'04"E, A DISTANCE OF 5285.07 FEET.

**BENCHMARK**  
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 A STANDARD DISK, STAMPED F 24 1929 AND SET IN THE TOP OF A CONCRETE POST PROJECTING ABOUT 6 INCHES ABOVE GROUND, ALONG THE CHICAGO, ROCK ISLAND AND PACIFIC RAILROAD, 52 FEET NORTHWEST OF THE CENTERLINE OF U.S. HIGHWAY 24, 48 FEET SOUTHEAST OF THE CENTERLINE OF THE TRACK.  
 NAVD88 ELEVATION = 6866.33

**CAUTION - NOTICE TO CONTRACTOR**

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#	Date	Issue / Description	Init.

Project No: HRC02  
 Drawn By: JDM  
 Checked By: RGD  
 Date: 10/14/2022

**INTERSECTION DETAIL**

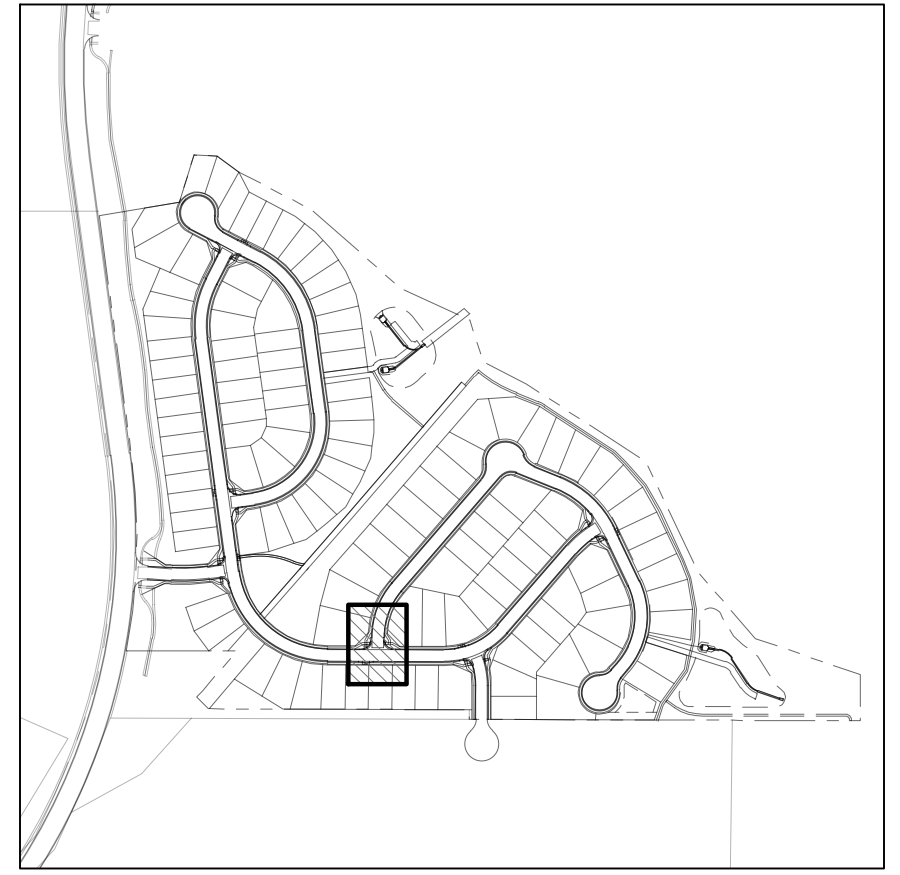
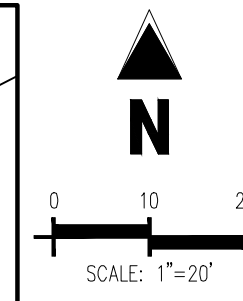
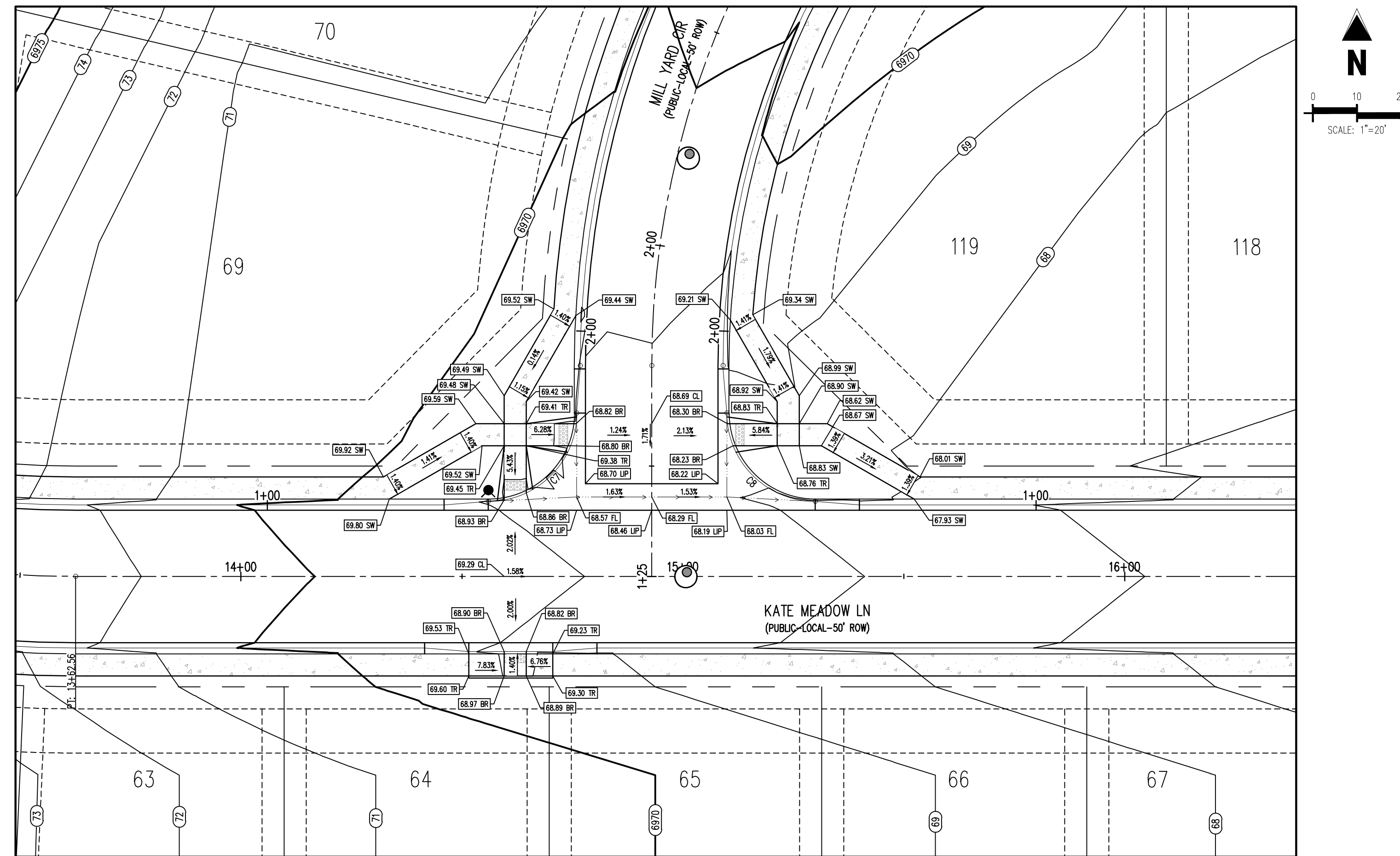
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 User: jdm  
 Plot Date: 10/14/2022

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**D.R. HORTON**  
*America's Builder*

CONSTRUCTION DOCUMENTS  
GRANDVIEW RESERVE FILING NO. 1  
4 SITE INVESTMENTS, LLC (D.R. HORTON)  
SF-22-XXX

EASTONVILLE RD & REX RD  
EL PASO COUNTY, FALCON, CO 80831



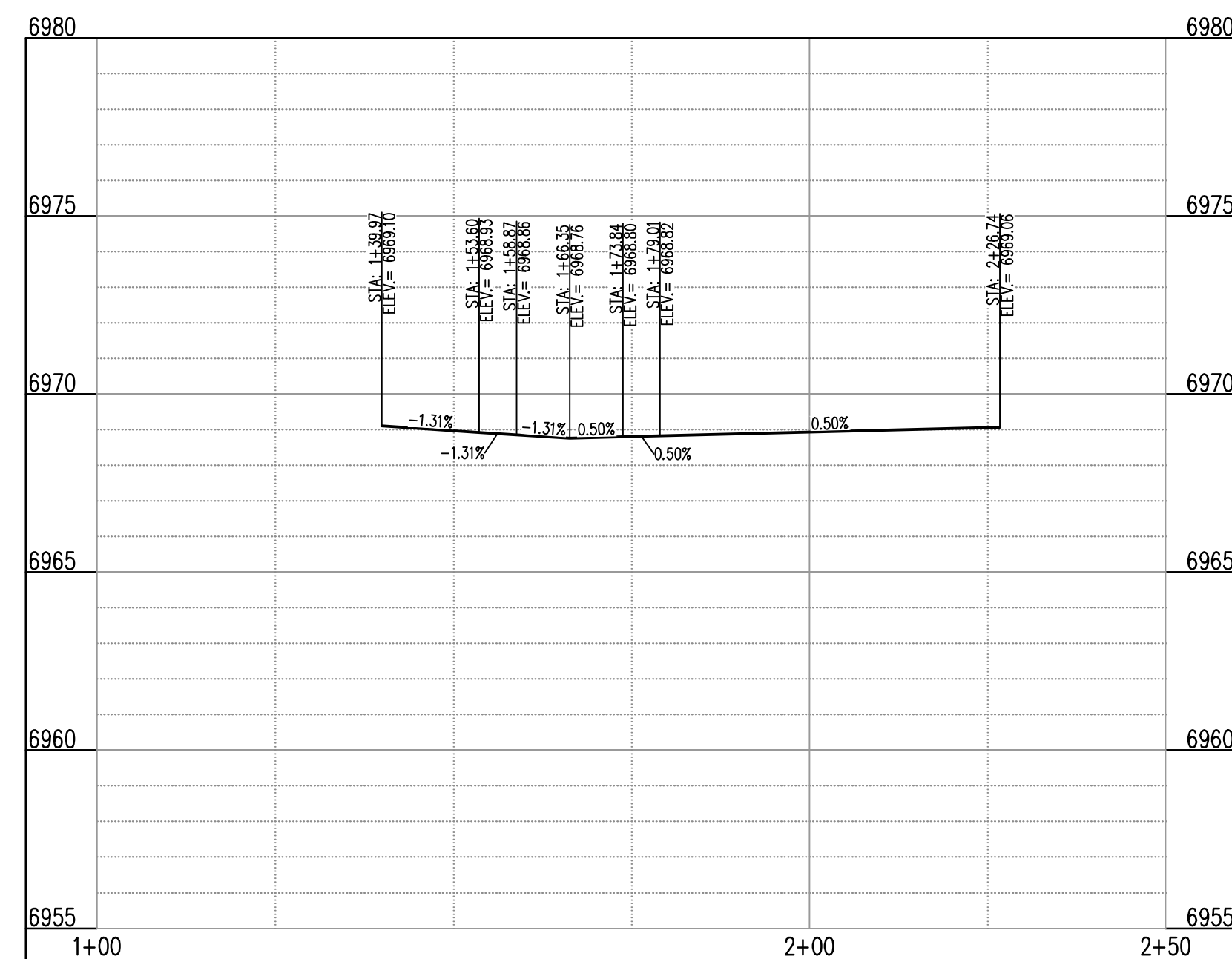
KEYMAP  
SCALE: 1"=500'

**DETAIL GRADING LEGEND**

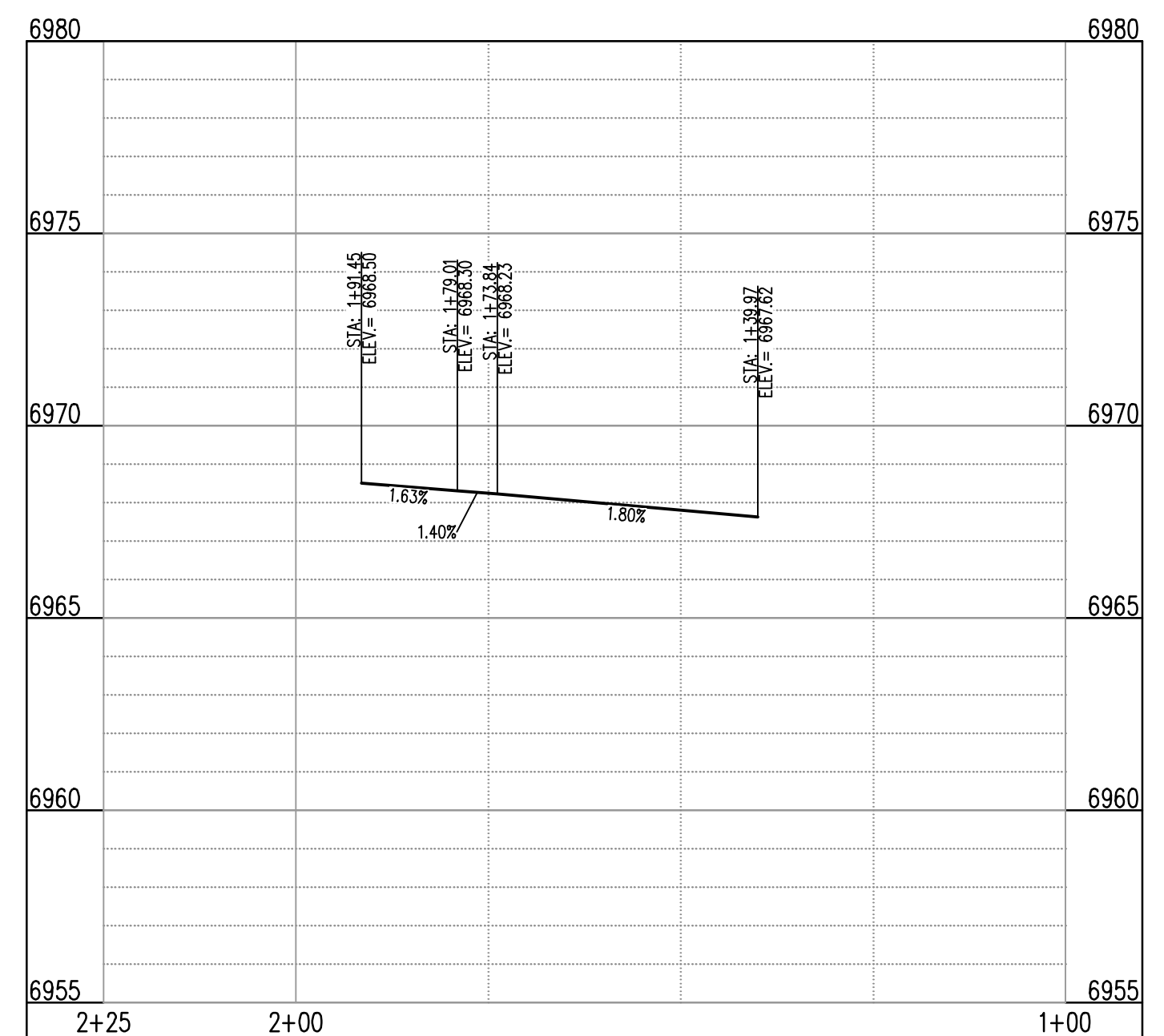
- PROPERTY BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY LINE
- RIGHT OF WAY BOUNDARY LINE
- PROPOSED LOT LINE
- PROPOSED EASEMENT LINE
- ROAD CENTERLINE
- PROPOSED SWALE FLOWLINE
- PROPOSED CURB AND GUTTER
- PROPOSED SIDEWALK
- 5485 PROPOSED MAJOR CONTOUR
- 66 PROPOSED MINOR CONTOUR
- 2.00% PROPOSED SLOPE - PERCENT
- 4:1 PROPOSED SLOPE - RISE/RUN
- 89.00 HP PROPOSED SPOT ELEVATION - HIGH POINT
- 89.00 LP PROPOSED SPOT ELEVATION - LOW POINT
- 89.00 TR PROPOSED SPOT ELEVATION - TOP OF RAMP
- 89.00 BR PROPOSED SPOT ELEVATION - BOTTOM OF RAMP
- 89.00 BR PROPOSED SPOT ELEVATION - BOTTOM OF RAMP
- 89.00 FL PROPOSED SPOT ELEVATION - FLOW LINE
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- 89.00 TBC PROPOSED SPOT ELEVATION - TOP BACK OF CURB
- 89.00 LP PROPOSED SPOT ELEVATION - LP OF GUTTER
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- 89.00 EOA PROPOSED SPOT ELEVATION - EDGE OF ASPHALT

KATE MEADOW LN (B) & MILL YARD CIR (C) - PUBLIC 50' R.O.W.  
25 MPH DESIGN SPEED (LOCAL)  
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FLOW LINE CURVE SEGMENT TABLE					
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C7	90°00'00"	31.42	20.00	N45°12'52"E	28.28
C8	90°00'00"	31.42	20.00	N44°47'08"W	28.28



ST-D & ST-B (LI) (STA: 1+00 - 2+50)  
SCALE: HORIZONTAL 1"=20', VERTICAL 1"=4'



ST-D & ST-B (RI) (STA: 1+00 - 2+25)  
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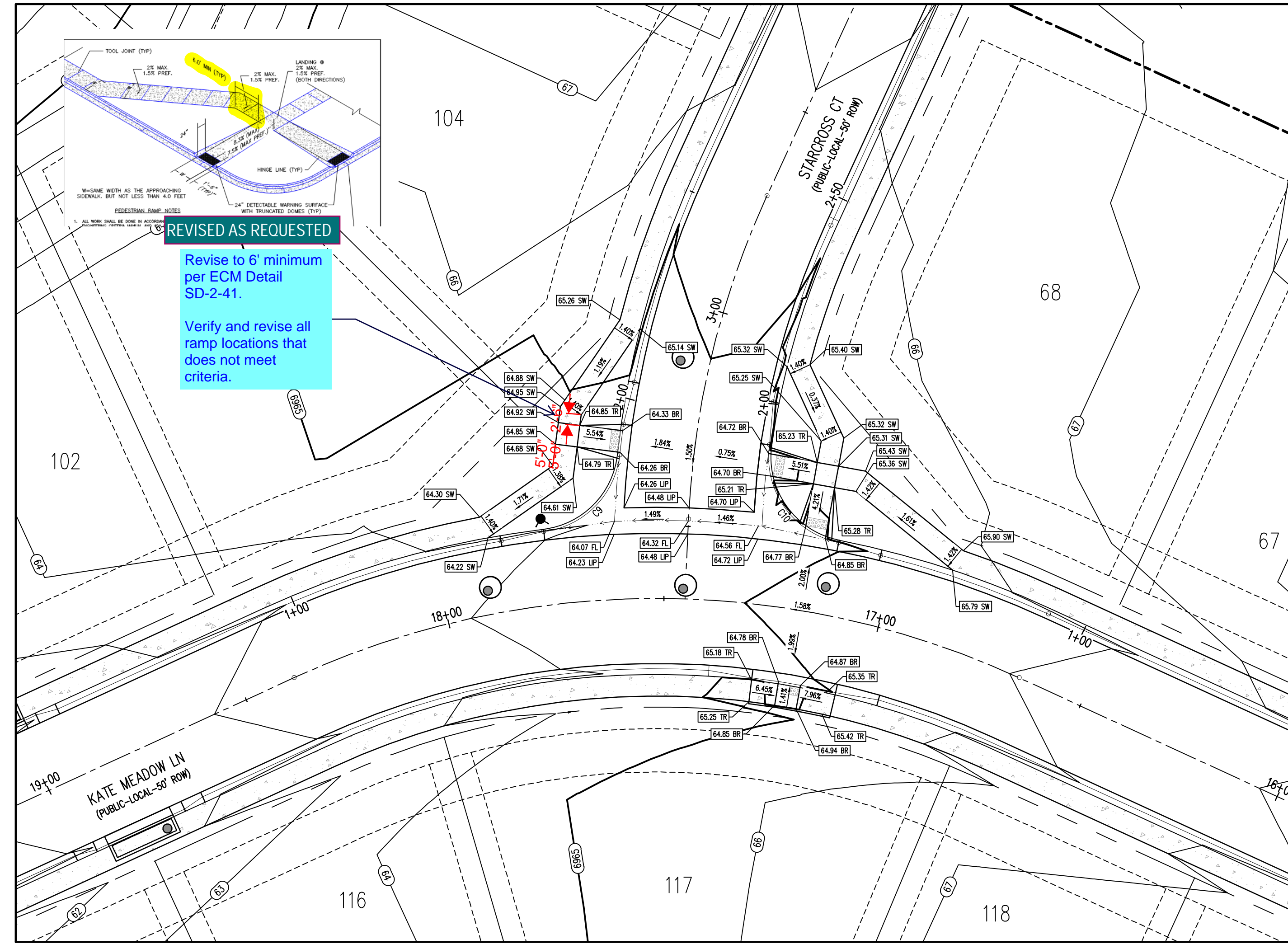
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#	Date	Issue / Description	Init.

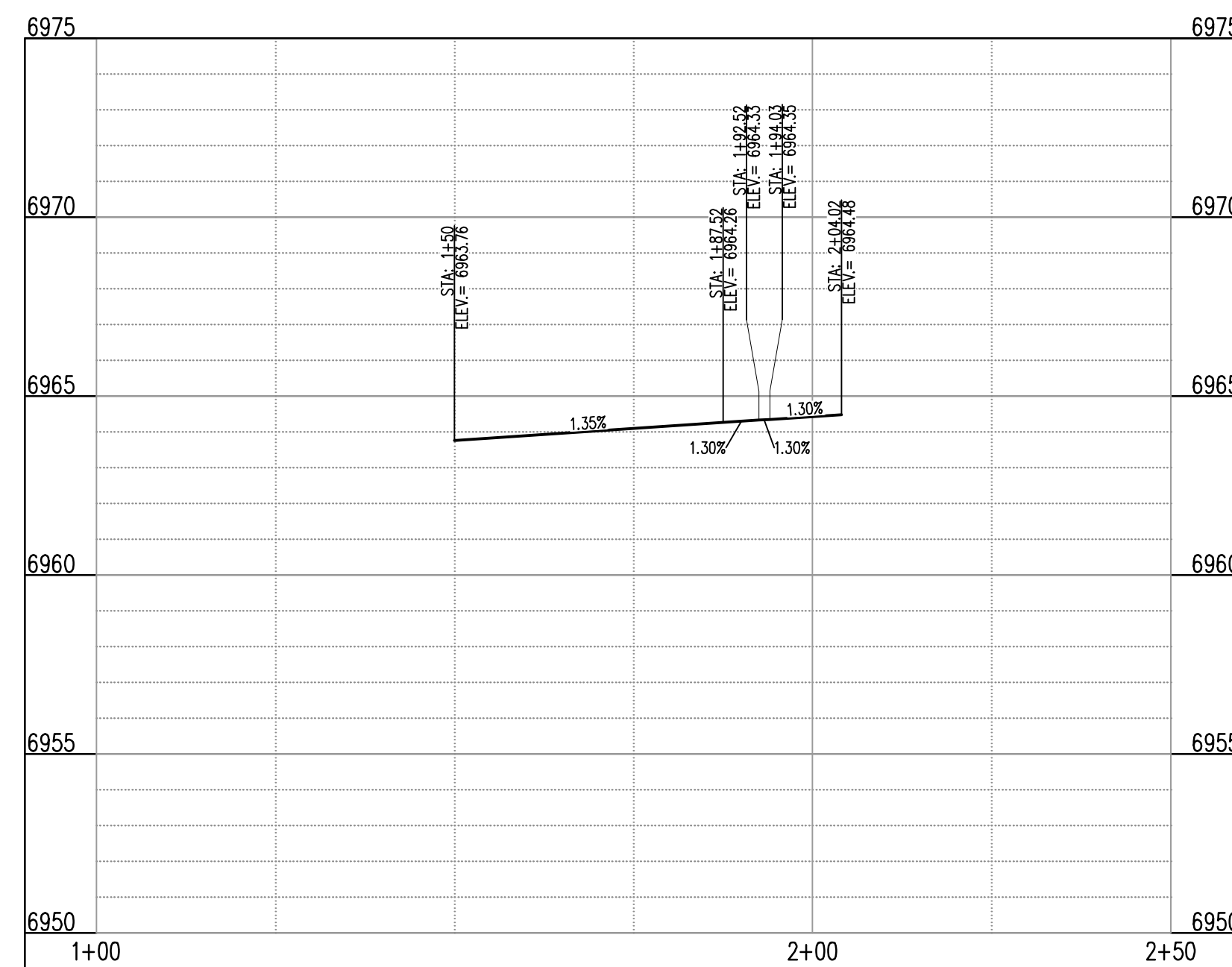
Project No:	HRG02
Drawn By:	JDM
Checked By:	RGD
Date:	10/14/2022

**INTERSECTION DETAIL**

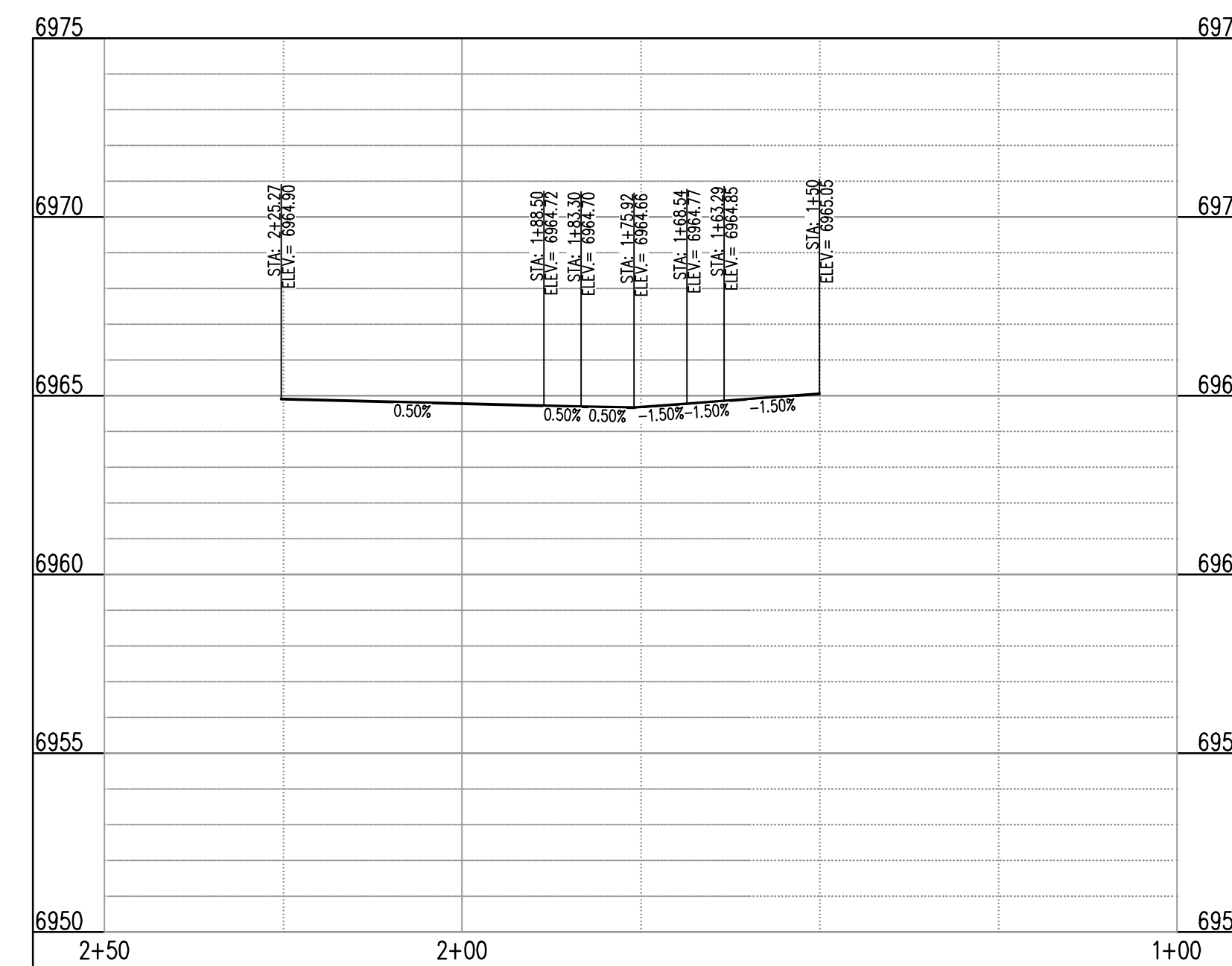


KATE MEADOW LN (B) & STARCROSS CT (C) - PUBLIC 50' R.O.W.  
25 MPH DESIGN SPEED (LOCAL)  
SCALE: 1"=20'

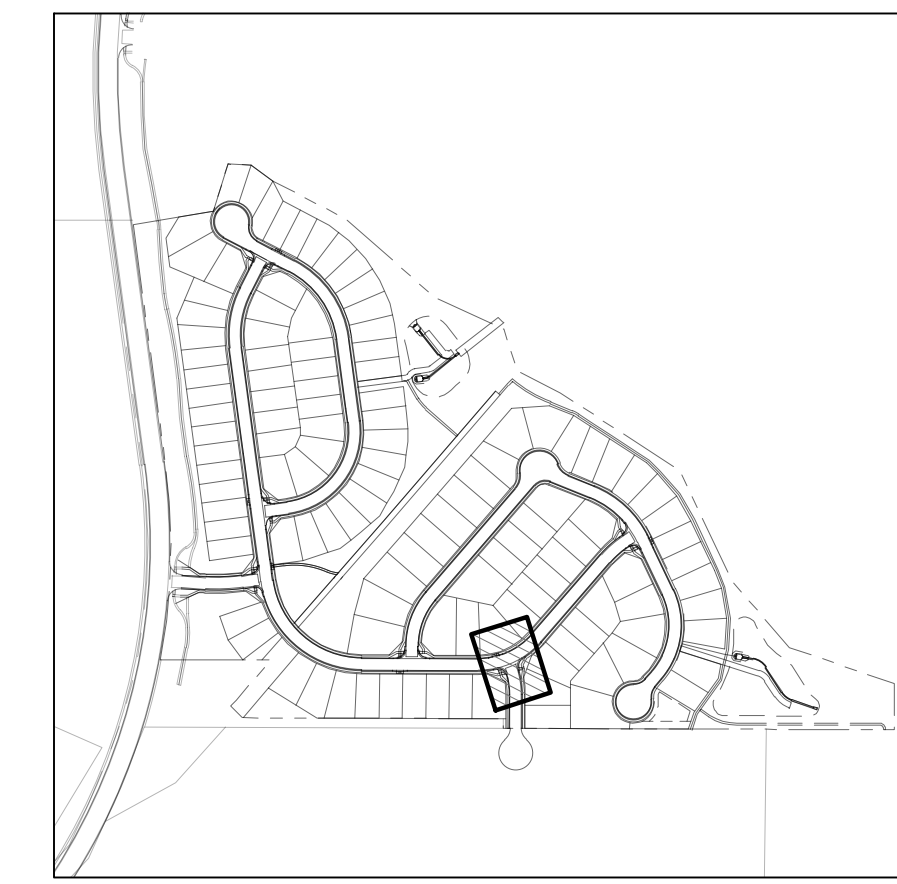
FLOW LINE CURVE SEGMENT TABLE					
CURVE TAG #	DELTA	LENGTH (FT)	RADIUS (FT)	CHORD BEARING	CHORD LENGTH (FT)
C9	76°48'26"	26.81	20.00	S20°14'33"W	24.85
C10	87°03'40"	30.39	20.00	S59°47'24"E	27.55



ST-E & ST-B (LT) (STA: 1+00 - 2+50)  
SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'



ST-E & ST-B (RT) (STA: 1+00 - 2+50)  
SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'



KEYMAP  
SCALE: 1"=500'

**DETAIL GRADING LEGEND**

- PROPERTY BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY LINE
- RIGHT OF WAY BOUNDARY LINE
- PROPOSED LOT LINE
- PROPOSED EASEMENT LINE
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- PROPOSED SWALE FLOWLINE
- PROPOSED CURB AND GUTTER
- PROPOSED SIDEWALK
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- PROPOSED MINOR CONTOUR
- PROPOSED SLOPE - PERCENT
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#	Date	Issue / Description	Init.

Project No:	HRG02
Drawn By:	JDM
Checked By:	RGD
Date:	10/14/2022

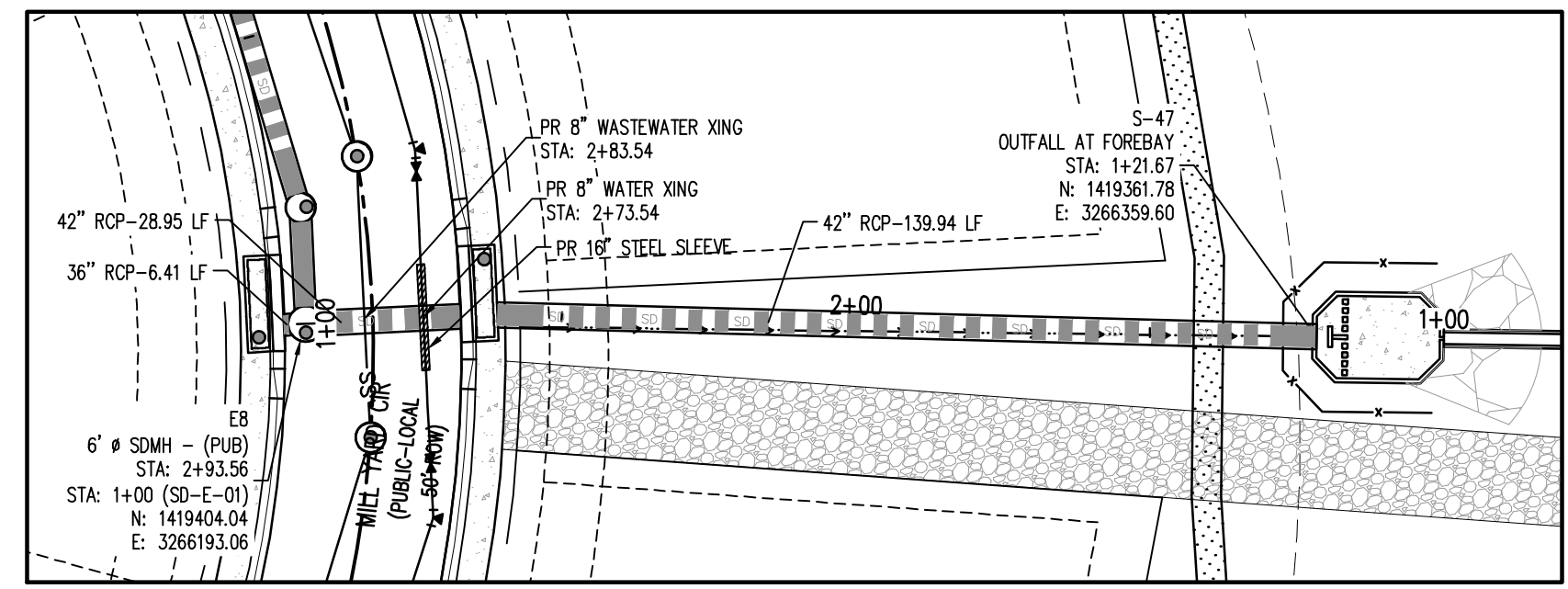
**INTERSECTION DETAIL**



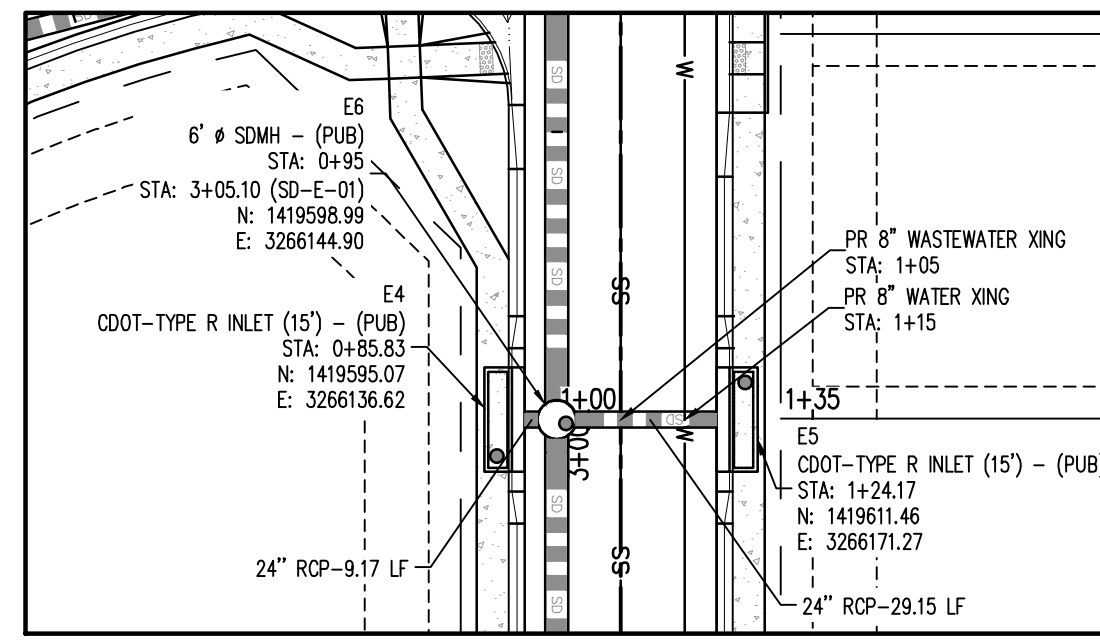
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CONSTRUCTION DOCUMENTS  
GRANDVIEW RESERVE FILING NO. 1  
4 SITE INVESTMENTS, LLC (D.R. HORTON)  
SF-22-XXX

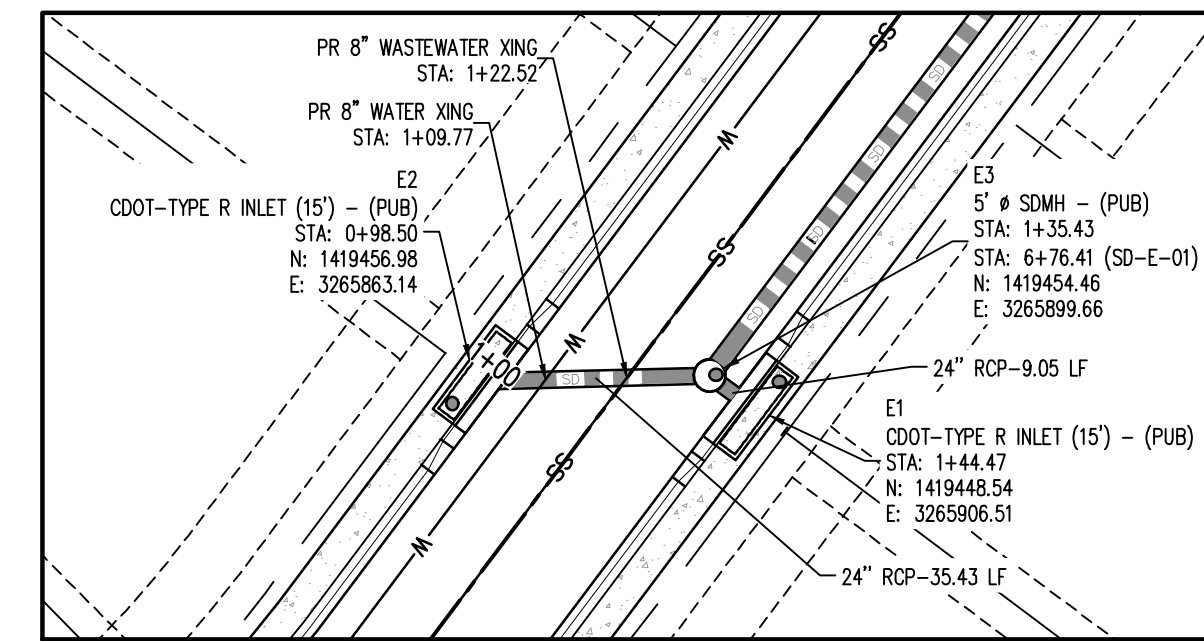
EASTONVILLE RD & REX RD  
EL PASO COUNTY, FALCON, CO 80831



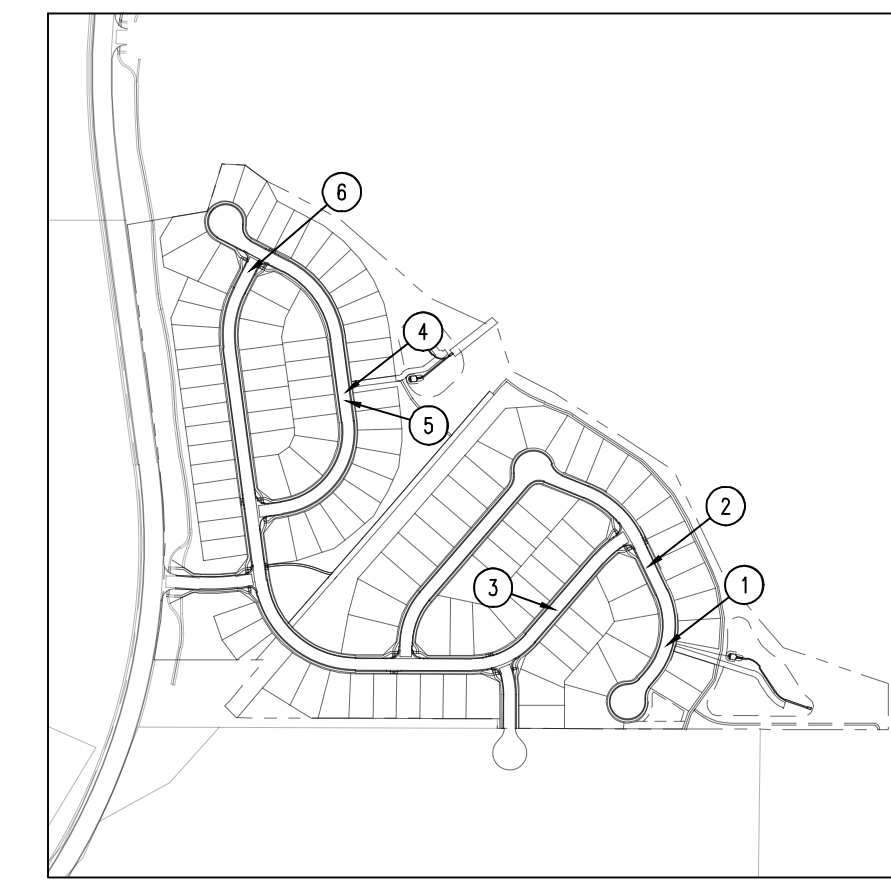
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CL.9 SCALE: 1"=30'



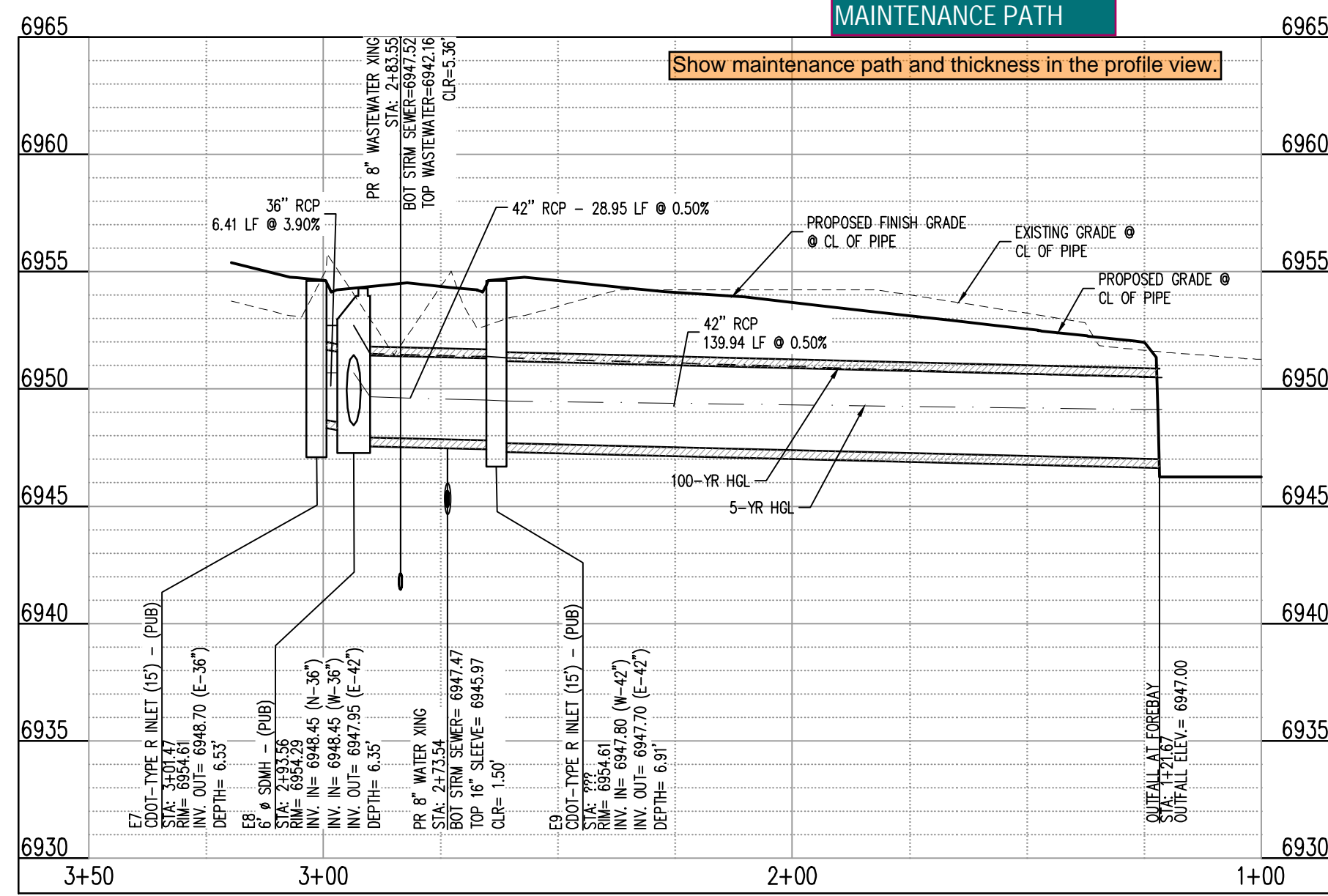
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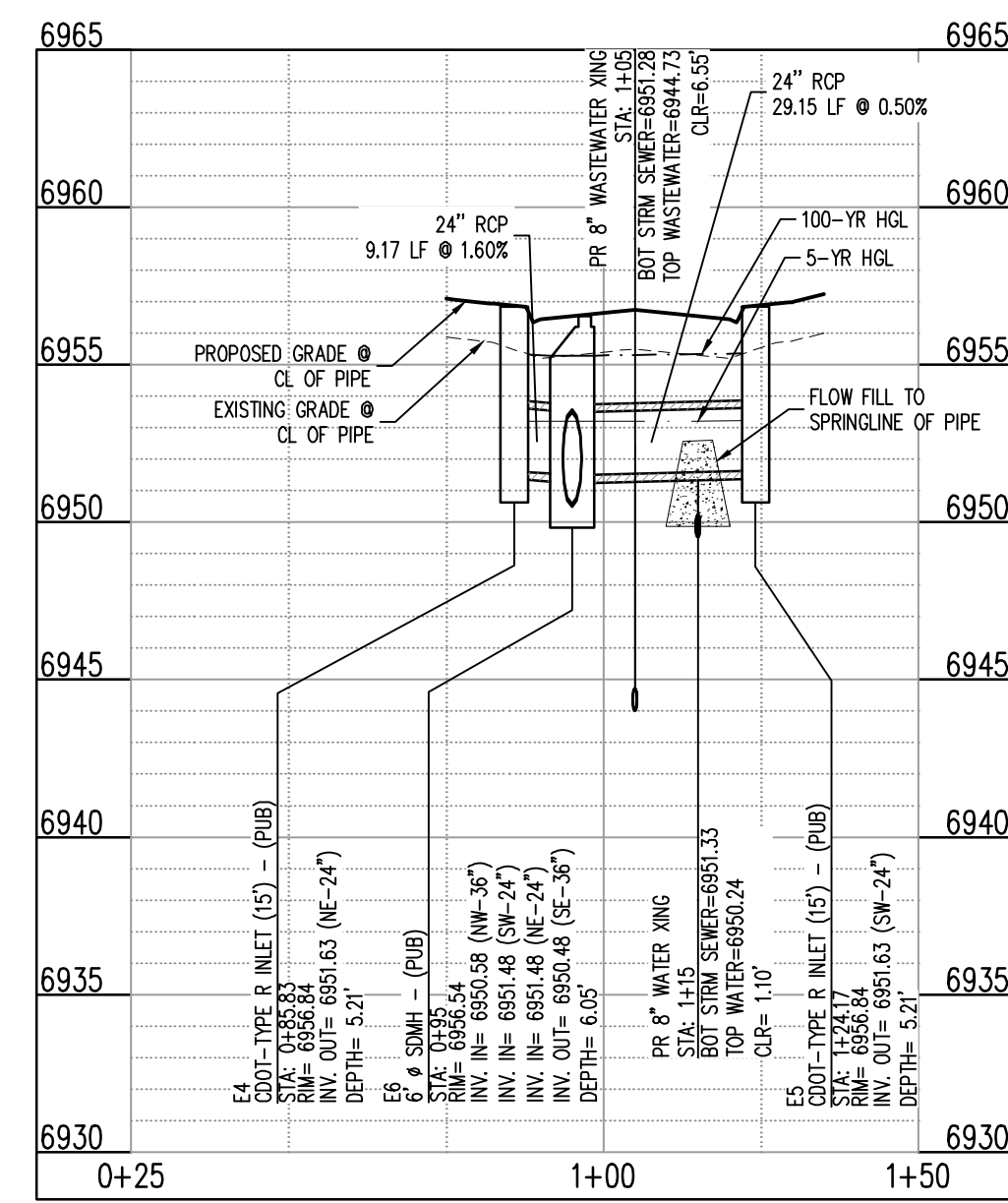
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CL.5 SCALE: 1"=30'



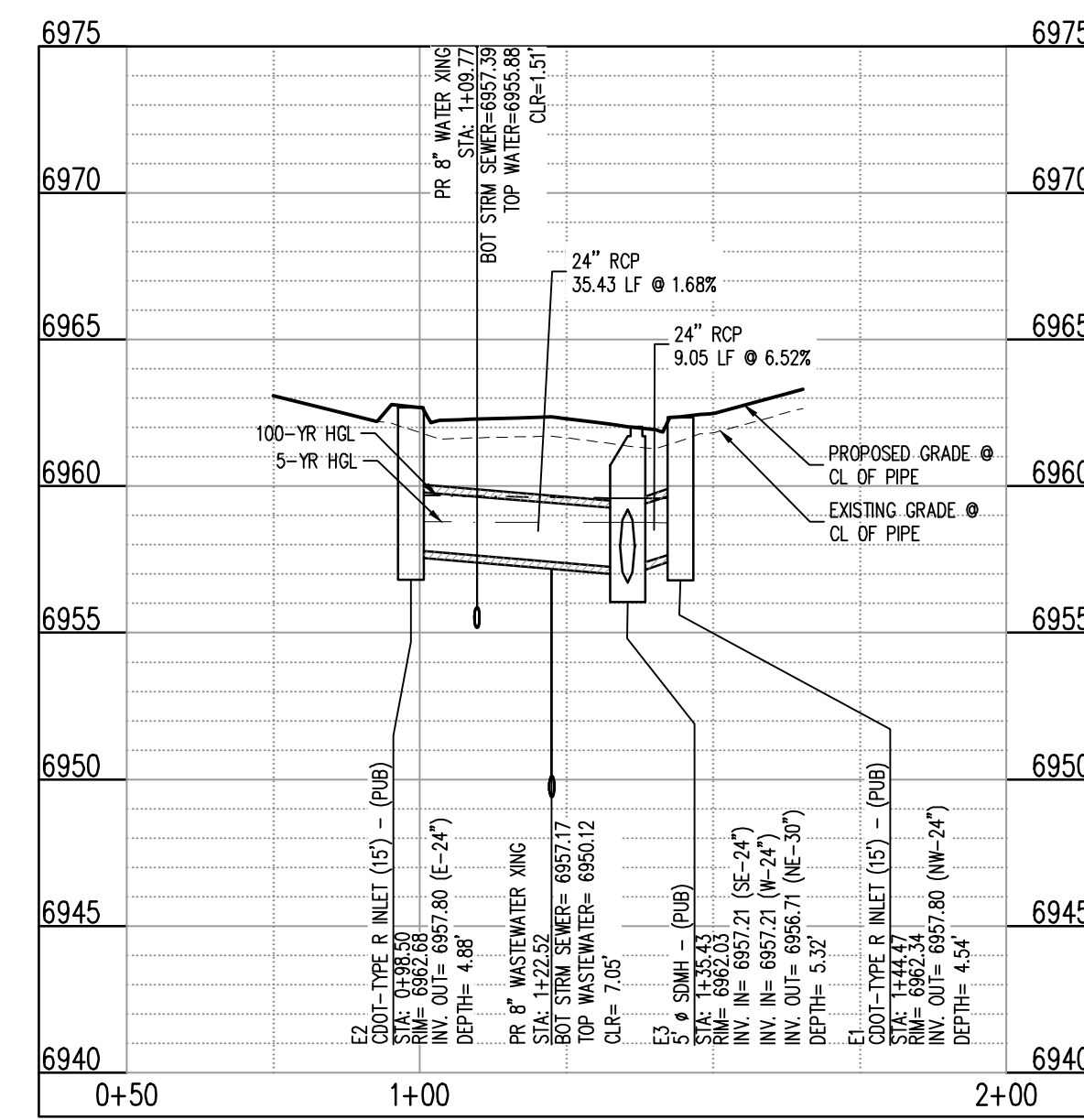
KEYMAP  
SCALE: 1"=500'



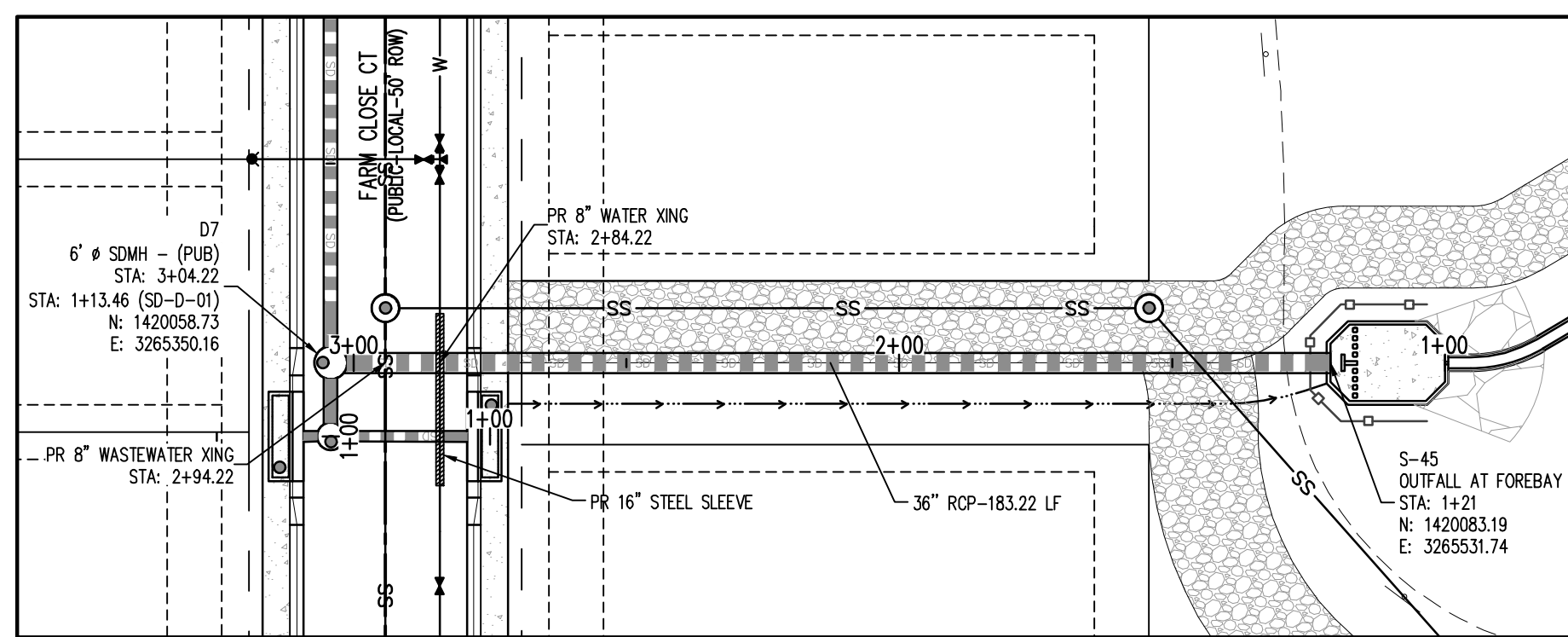
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CL.9 SCALES: HORIZONTAL 1"=30', VERTICAL 1"=6'



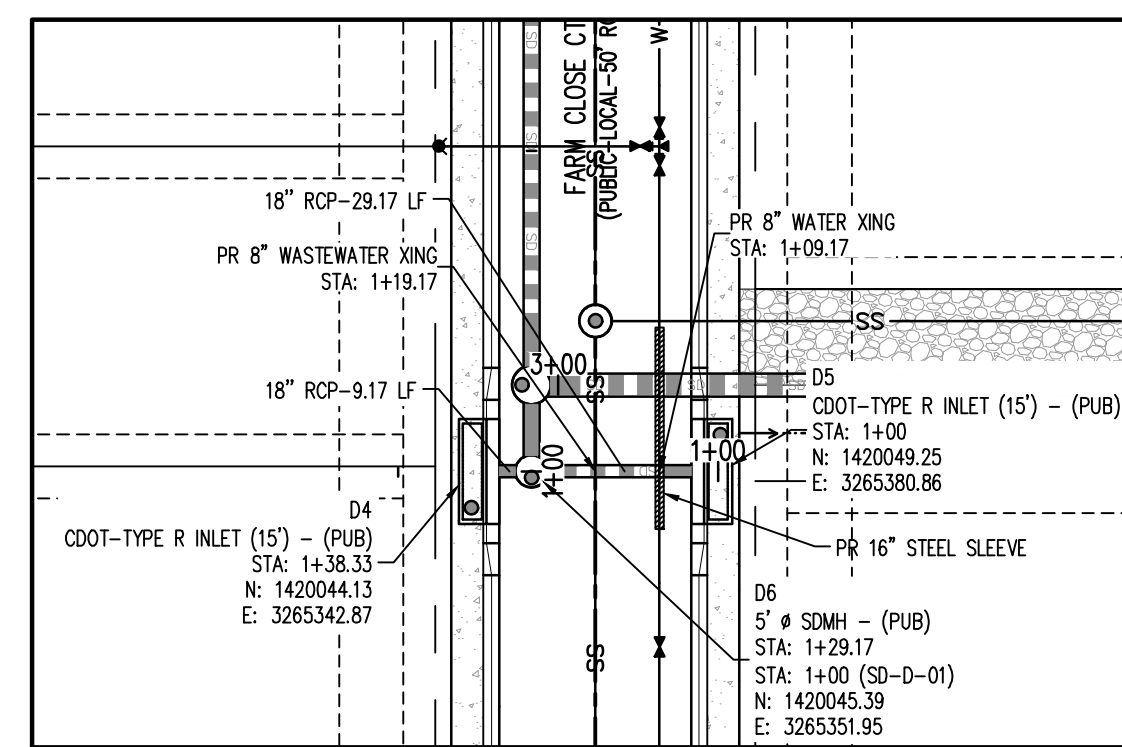
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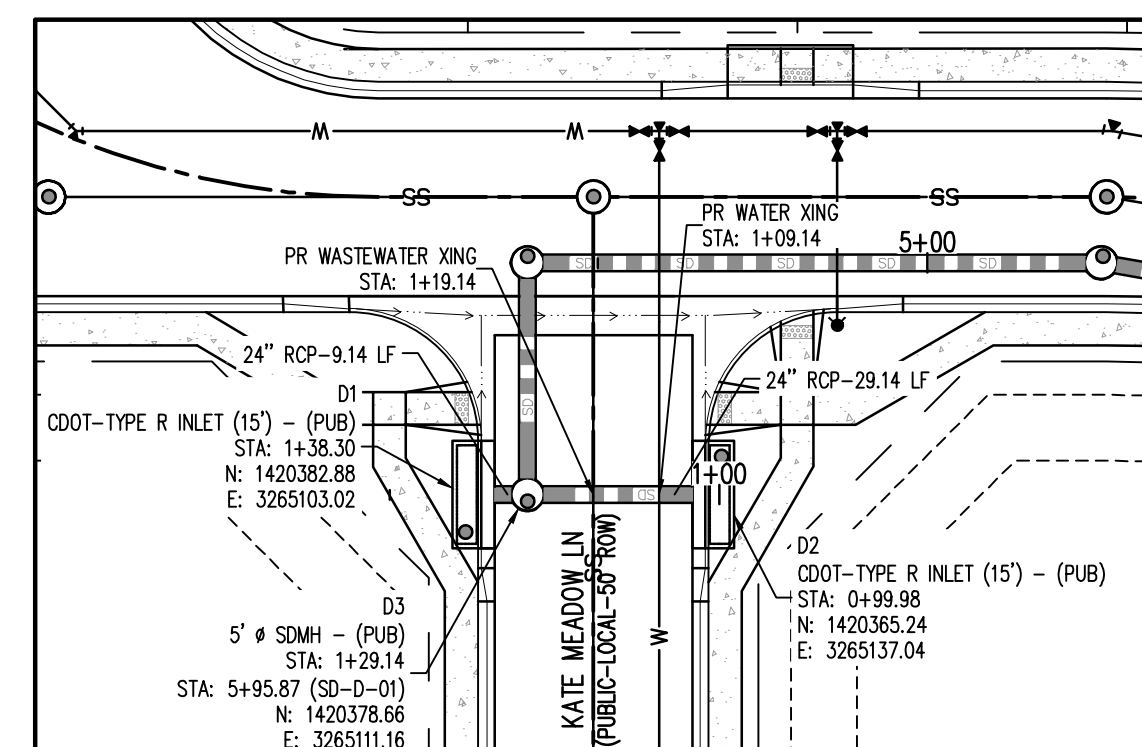
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CL.5 SCALES: HORIZONTAL 1"=30', VERTICAL 1"=6'



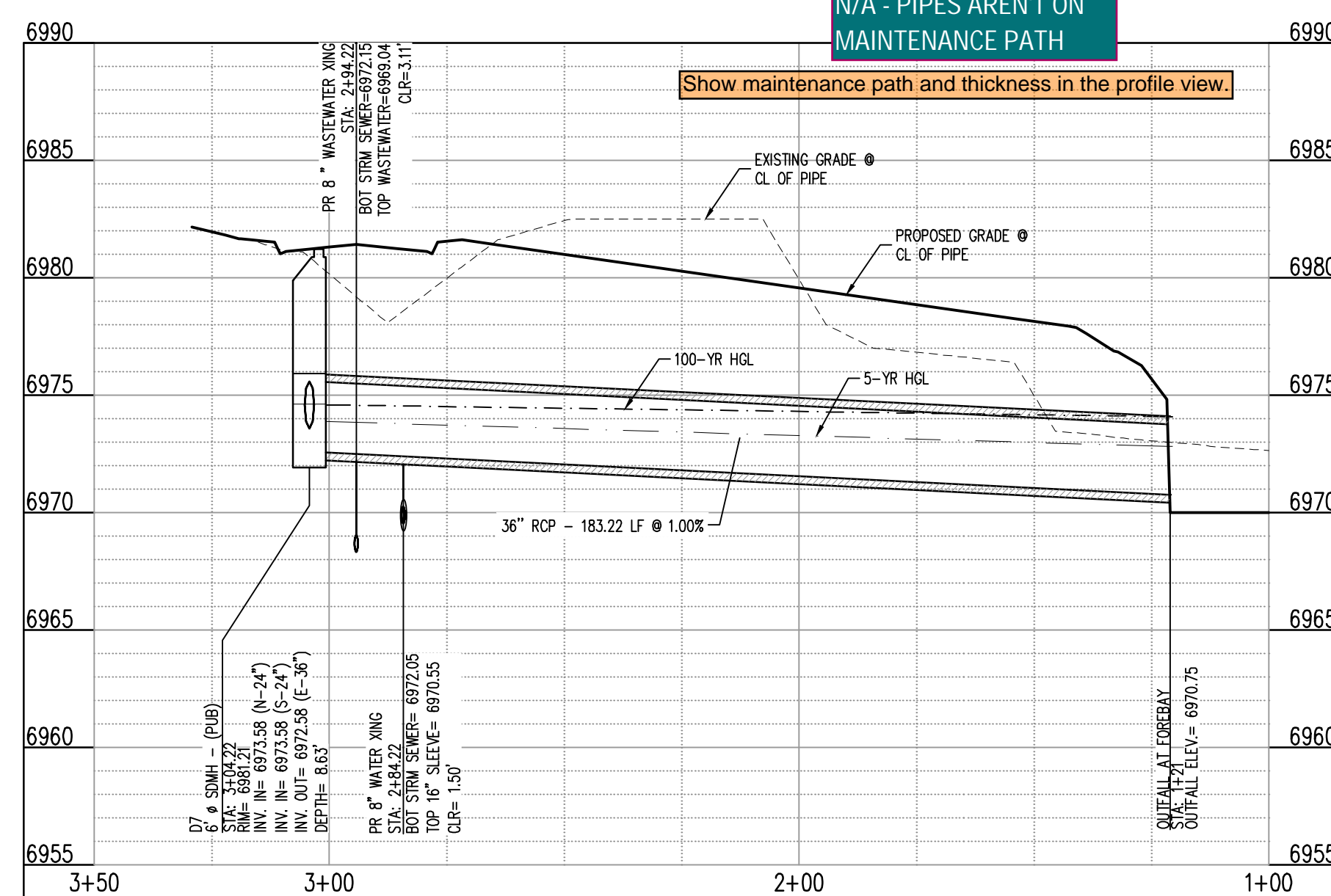
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CL.6 SCALE: 1"=30'



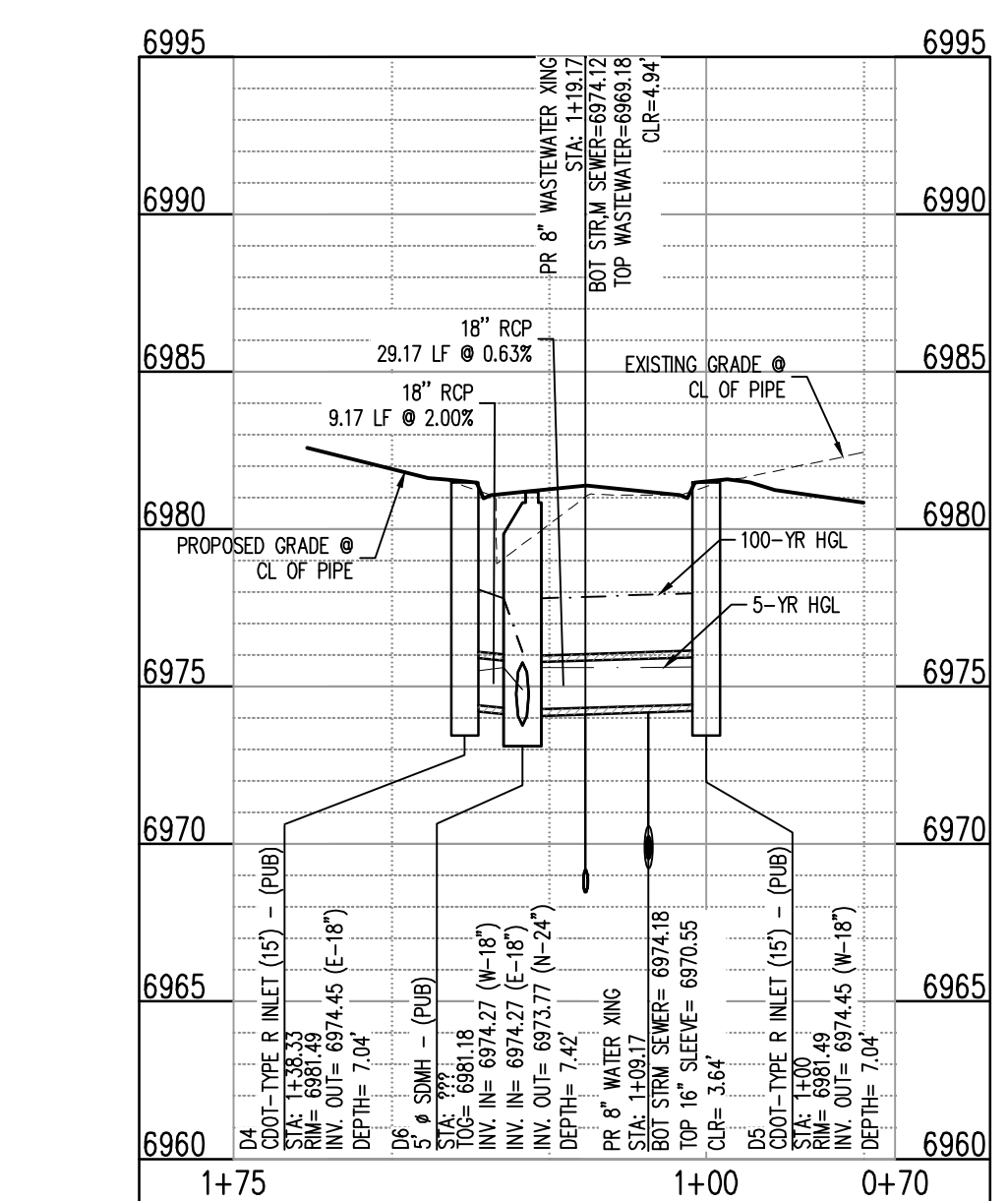
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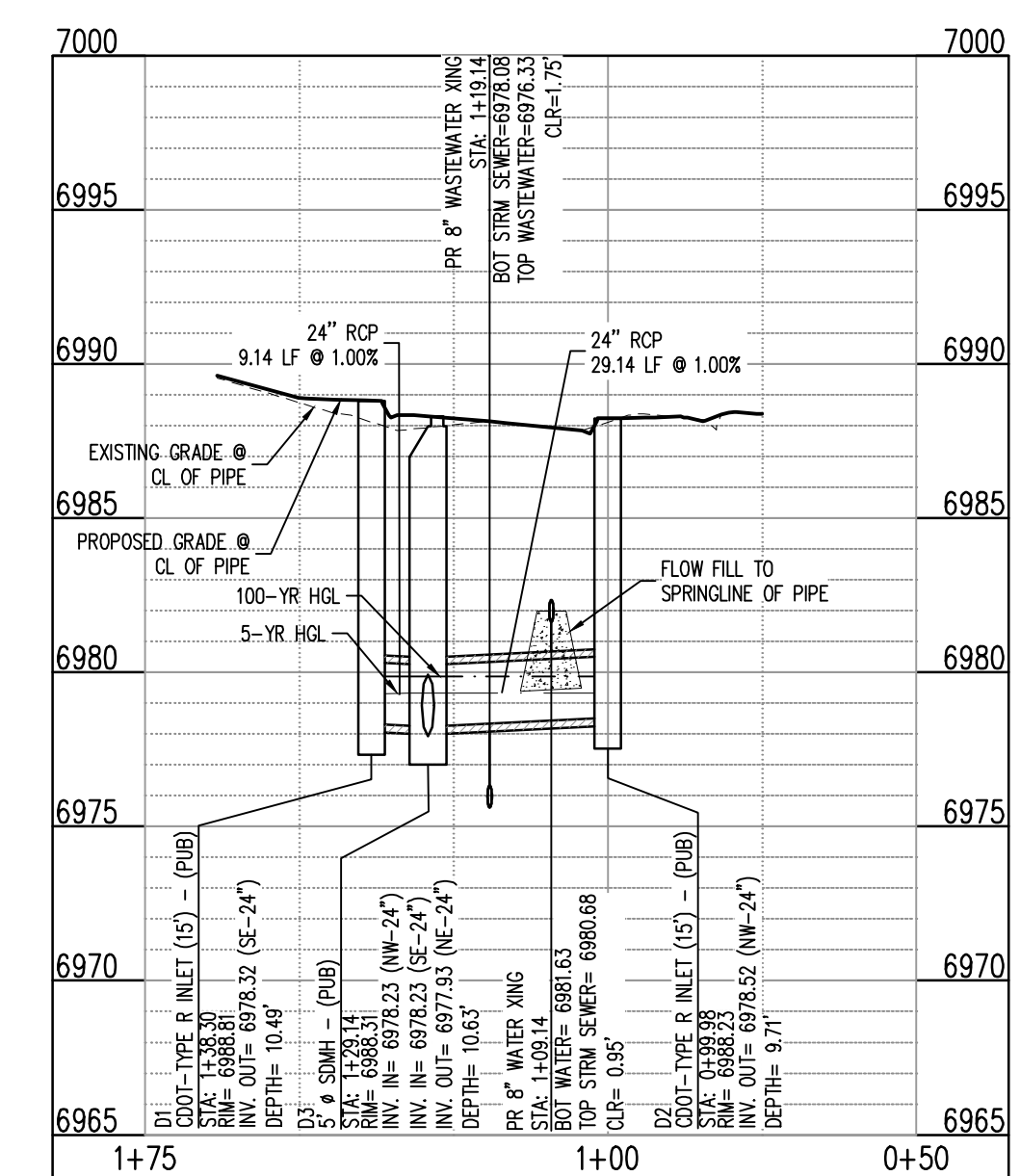
6 SD-D INLET 1 - (STA: 1+00.00 - 3+25.00)  
CL.2 SCALE: 1"=30'



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CL.6 SCALES: HORIZONTAL 1"=30', VERTICAL 1"=6'



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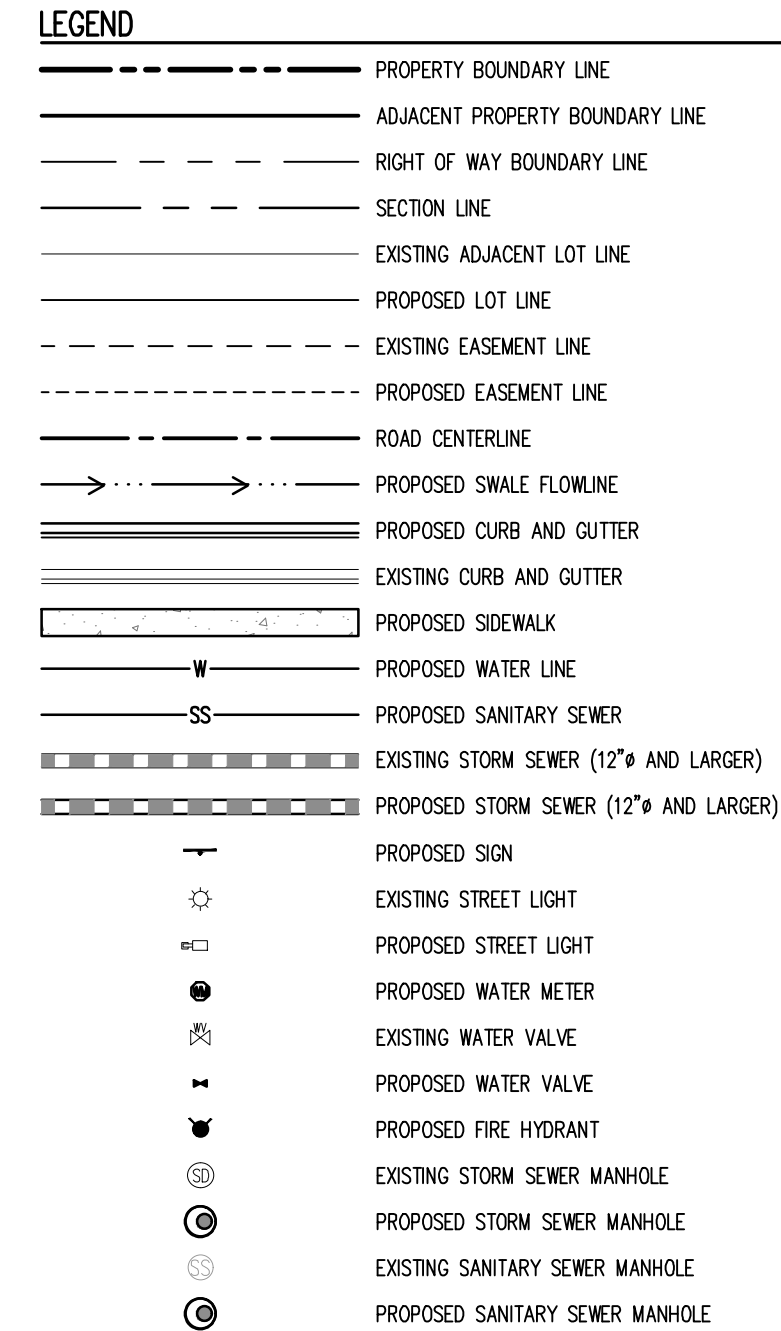
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CL.2 SCALES: HORIZONTAL 1"=30', VERTICAL 1"=6'

N/A - PIPES AREN'T ON MAINTENANCE PATH

Show maintenance path and thickness in the profile view.

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A STANDARD DISK, STAMPED F 24 1929 AND SET IN THE TOP OF A CONCRETE POST PROJECTING ABOUT 6 INCHES ABOVE GROUND, ALONG THE CHICAGO, ROCK ISLAND AND PACIFIC RAILROAD, 52 FEET NORTHWEST OF THE CENTERLINE OF U.S. HIGHWAY 24, 48 FEET SOUTHWEST OF THE CENTERLINE OF THE TRACK.  
NAVD88 ELEVATION = 6866.33

#### CAUTION - NOTICE TO CONTRACTOR

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- 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 POT-HOILING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.



#	Date	Issue / Description	Init.

Project No: HRC02  
Drawn By: JDM  
Checked By: RGD  
Date: 10/14/2022

STORM DRAIN PLAN & PROFILE

# C3.1









**PIPE INSTALLATION**  
(WITH 0.7 PROJECTION RATIO)

NOTE: Bc IS THE OUTSIDE DIMENSION FOR DIAMETER, SPAN OR RISE.

CIRCULAR (CIR)		VERTICAL ELLIPTICAL (VE)		HORIZONTAL ELLIPTICAL (HE)	
PIPE SIZE - Ba (INSIDE DIA)	WALL THICKNESS 0.3 Bc (OUTSIDE DIA) FT.	SPAN	RISE	SPAN	RISE
12	2			23	14
15	2-1/4				
18	2-1/2				
21	2-3/4				
24	3			30	19
27	3-1/4			34	22
30	3-1/2			38	24
33	3-3/4				
36	4	29	45	45	29
42	4-1/2	34	53	53	34
48	5	38	60	60	38
54	5-1/2	43	68	68	43
60	6	48	76	76	48
66	6-1/2	53	83	83	53
72	7	58	91	91	58
78	7-1/2	63	98	98	63
84	8	68	106	106	68
90	8-1/2	72	113	113	72
96	9	77	121	121	77
102	9-1/2	82	128	128	82
108	10	87	136	136	87

△ ALSO EQUIVALENT ROUND DIMENSION FOR ELLIPTICAL PIPE.

**GENERAL NOTES**

**REINFORCED CONCRETE PIPE**

- FILL HEIGHTS GREATER THAN MAXIMUM ALLOWED IN THE HEIGHTS OF FILL TABLE ON THIS SHEET REQUIRE SPECIAL DESIGN OF STRUCTURE.
- PIPE DESIGN IS BASED ON SAFETY FACTOR OF 1.33 ON ULTIMATE STRENGTH.
- THE HEIGHTS OF FILL OVER TOP OF PIPE ARE BASED ON UNIT WEIGHT OF SOIL AT 135 LBS PER CUBIC FT.
- PIPE CLASS IS DETERMINED FROM 0.01 IN. CRACK D-LOAD.
- BEDDING IS CLASS B (MODIFIED) FROM CONCRETE PIPE DESIGN MANUAL - AMERICAN CONCRETE PIPE ASSOCIATION) WITH SETTLEMENT RATIO R = 0.05 (YIELDING BED). BEDDING MATERIAL FOR RIGID PIPE IN SOIL SHALL BE 3 IN. LOOSE THICKNESS STRUCTURE BACKFILL CLASS 2. BEDDING MATERIAL FOR RIGID PIPE IN ROCK SHALL BE 12 IN. LOOSE THICKNESS STRUCTURE BACKFILL CLASS 1.
- CHANGES IN DESIGN FACTORS REQUIRE COMPENSATING CHANGES IN PIPE DESIGN.
- MINIMUM WALL THICKNESS DIMENSIONS ARE BASED ON ASHTO M 170 (WALL B) FOR CIRCULAR PIPE, AND ASHTO M 207 FOR ELLIPTICAL PIPE.
- SPACING FOR MULTIPLE PIPE INSTALLATIONS SHALL CONFORM TO THE DETAILS SHOWN ON STANDARD PLAN M-206-1.
- WHEN A PIPE IS TO BE EXTENDED, THE SAME PIPE MATERIAL AND SIZE AS IN THE ORIGINAL PIPE INSTALLATION SHALL BE USED.

**NONREINFORCED CONCRETE PIPE**

- AT THE OPTION OF THE CONTRACTOR, NONREINFORCED CONCRETE PIPE CONFORMING TO ASHTO M 59 MAY BE USED IN LIEU OF REINFORCED CONCRETE PIPE FOR ALL SIZES 36 INCHES IN DIAMETER AND SMALLER. THE NONREINFORCED CONCRETE PIPE SHALL MEET THE SAME D-LOAD TO PRODUCE THE ULTIMATE LOAD UNDER THE THREE-EDGE BEARING METHOD AS SPECIFIED FOR REINFORCED CONCRETE PIPE IN CONFORMANCE WITH ASHTO M 170. THE CONTRACTOR SHALL PROVIDE WRITTEN CERTIFICATION OF CONFORMANCE. THE WALL THICKNESS OF THE NONREINFORCED PIPE MAY BE INCREASED AS REQUIRED TO MEET D-LOAD REQUIREMENT.
- ALL REQUIREMENTS FOR REINFORCED CONCRETE PIPE, EXCEPT THOSE REFERRING TO REINFORCEMENT, SHALL APPLY TO NONREINFORCED CONCRETE PIPE.

**CONCRETE PIPE WITH END SECTIONS**

NOTE: USE THE H THAT IS GREATER FOR MAXIMUM ALLOWABLE FILL HEIGHT.

H = HEIGHT OF FILL OVER TOP OF PIPE, INCLUDING PAVEMENT THICKNESS.  
 L1 = LENGTH OF PIPE TO BE MEASURED WHEN PLACED IN ACCORDANCE WITH SECTION 624.  
 L2 = LENGTH OF PIPE TO BE MEASURED WHEN PLACED IN ACCORDANCE WITH SECTION 603.

**CONCRETE PIPE WITHOUT END SECTIONS**

NOTE: USE THE H THAT IS GREATER FOR MAXIMUM ALLOWABLE FILL HEIGHT.

**MINIMUM COVER FOR RIGID PIPE**

TYPE OF PIPE	HEIGHT OF FILL OVER TOP OF PIPE, H (FEET)					
	CLASS OF PIPE (0.01 IN. CRACK D-LOAD)					
	CLASS CIR II	CLASS CIR III	CLASS CIR IV	CLASS CIR V	CLASS VE V	CLASS VE VI
CIRCULAR (CIR)	1 TO 18	1 TO 25	± 25 TO 37	± 37 TO 45	---	---
VERTICAL ELLIPTICAL (VE)	1 TO 18	1 TO 25	± 25 TO 37	± 37 TO 45	± 45 TO 62	---
HORIZONTAL ELLIPTICAL (HE)	1 TO 18	1 TO 25	± 25 TO 37	± 37 TO 45	---	---

**ALLOWABLE RANGE OF HEIGHTS FOR FILL OVER REINFORCED CONCRETE PIPE**  
(ALL SIZES)

**Computer File Information**

Creation Date: 07/31/19  
 Designer Initials: JBK  
 Last Modification Date: 07/31/19  
 Detailer Initials: LTA  
 CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English

**Sheet Revisions**

Date:	Comments:

**Colorado Department of Transportation**

2829 West Howard Place  
 CDOT HQ, 3rd Floor  
 Denver, CO 80204  
 Phone: 303-757-9021 FAX: 303-757-9868

**Project Development Branch** JBK

**REINFORCED CONCRETE PIPE**

STANDARD PLAN NO. M-603-2  
 Standard Sheet No. 1 of 1

Issued by the Project Development Branch July 31, 2019  
 Project Sheet Number: \_\_\_\_\_

# Date Issue / Description Init.


Project No: HRG02  
 Drawn By: JDM  
 Checked By: RGD  
 Date: 10/14/2022

**STORM DRAIN DETAILS**

**C4.4**  
 Sheet 28 of 29

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**D.R.HORTON**  
*America's Builder*

CONSTRUCTION DOCUMENTS  
 GRANDVIEW RESERVE FILING NO. 1  
 4 SITE INVESTMENTS, LLC (D.R. HORTON)  
 SF-22-XXX

EASTONVILLE RD & REX RD  
 EL PASO COUNTY, FALCON, CO 80831

#	Date	Issue / Description	Init.

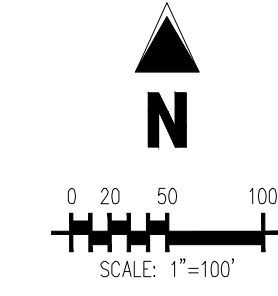
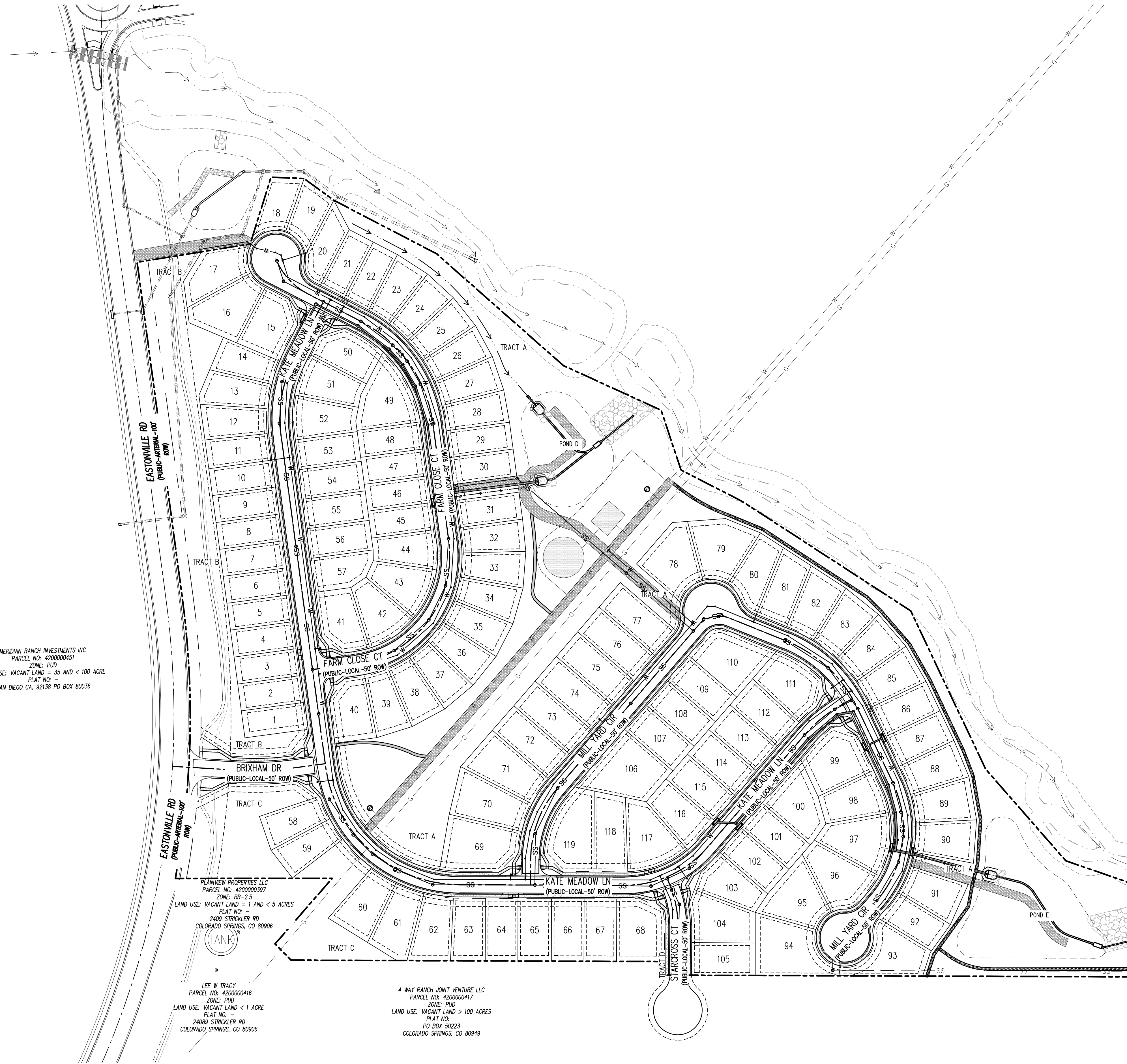
Project No: HRG02  
 Drawn By: JDM  
 Checked By: RGD  
 Date: 10/14/2022

**SIGNAGE PLAN**









MERIDIAN RANCH INVESTMENTS INC  
 PARCEL NO. 420000451  
 ZONE: PUD  
 LAND USE: VACANT LAND = 35 AND < 100 ACRE  
 PLAT NO. -  
 SAN DIEGO CA, 92138 PO BOX 80036

PLANVIEW PROPERTIES LLC  
 PARCEL NO. 420000037  
 ZONE: RR-2.5  
 LAND USE: VACANT LAND = 1 AND < 5 ACRES  
 PLAT NO. -  
 2409 STROCKLER RD  
 COLORADO SPRINGS, CO 80906

LEE W TRACY  
 PARCEL NO. 4200000416  
 ZONE: PUD  
 LAND USE: VACANT LAND < 1 ACRE  
 PLAT NO. -  
 2409 STROCKLER RD  
 COLORADO SPRINGS, CO 80906

4 WAY RANCH JOINT VENTURE LLC  
 PARCEL NO. 420000417  
 ZONE: PUD  
 LAND USE: VACANT LAND > 100 ACRES  
 PLAT NO. -  
 PO BOX 50223  
 COLORADO SPRINGS, CO 80949


CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.

NOTE: CONTRACTOR MUST COORDINATE WORK WITH UTILITY COMPANY AND CITY PRIOR TO BEGINNING WORK AND IS RESPONSIBLE FOR ALL MATERIALS, LABOR, REPAIRS, ETC. TO COMPLETE WORK AND RESTORE AREA TO SAME STATE PRIOR TO STARTING WORK.

SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONING PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION WORK.

**CAUTION - NOTICE TO CONTRACTOR**

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 Know what's below.  
 Call before you dig.

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 POT-Holing OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

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**GRADING & EROSION CONTROL PLANS**  
**GRANDVIEW RESERVE FILING NO. 1**  
**4 SITE INVESTMENTS, LLC (D.R. HORTON)**  
**SF-22-XXX**

EASTONVILLE RD & REX RD  
 EL PASO COUNTY, FALCON, CO 80831

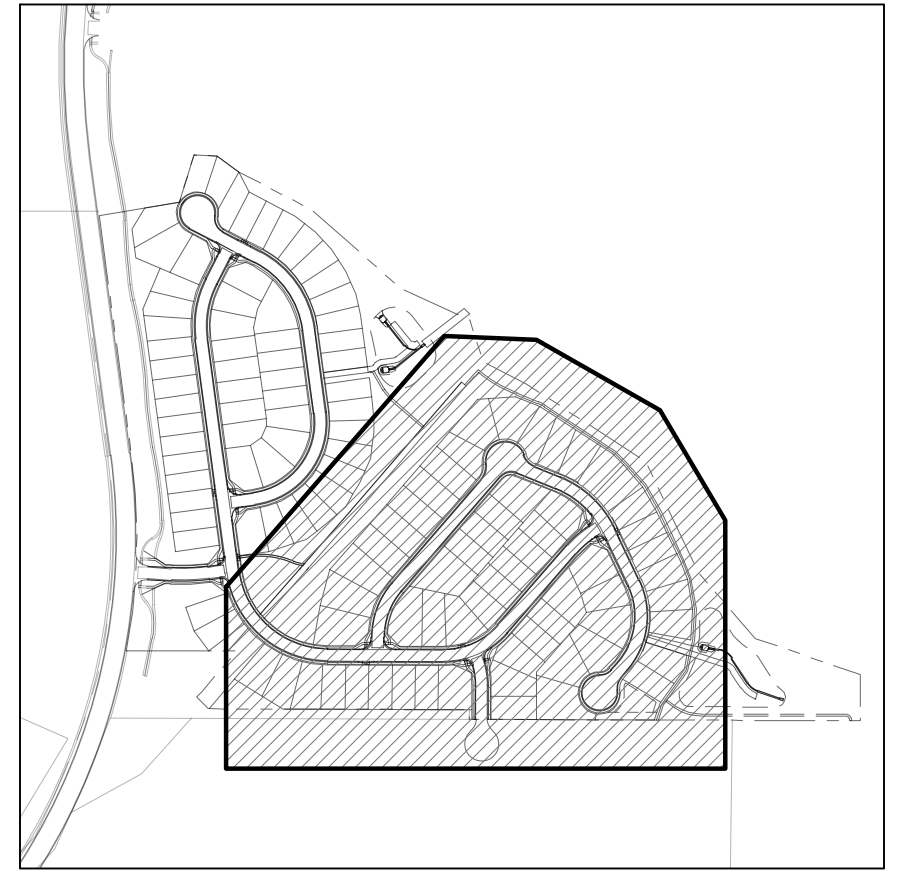
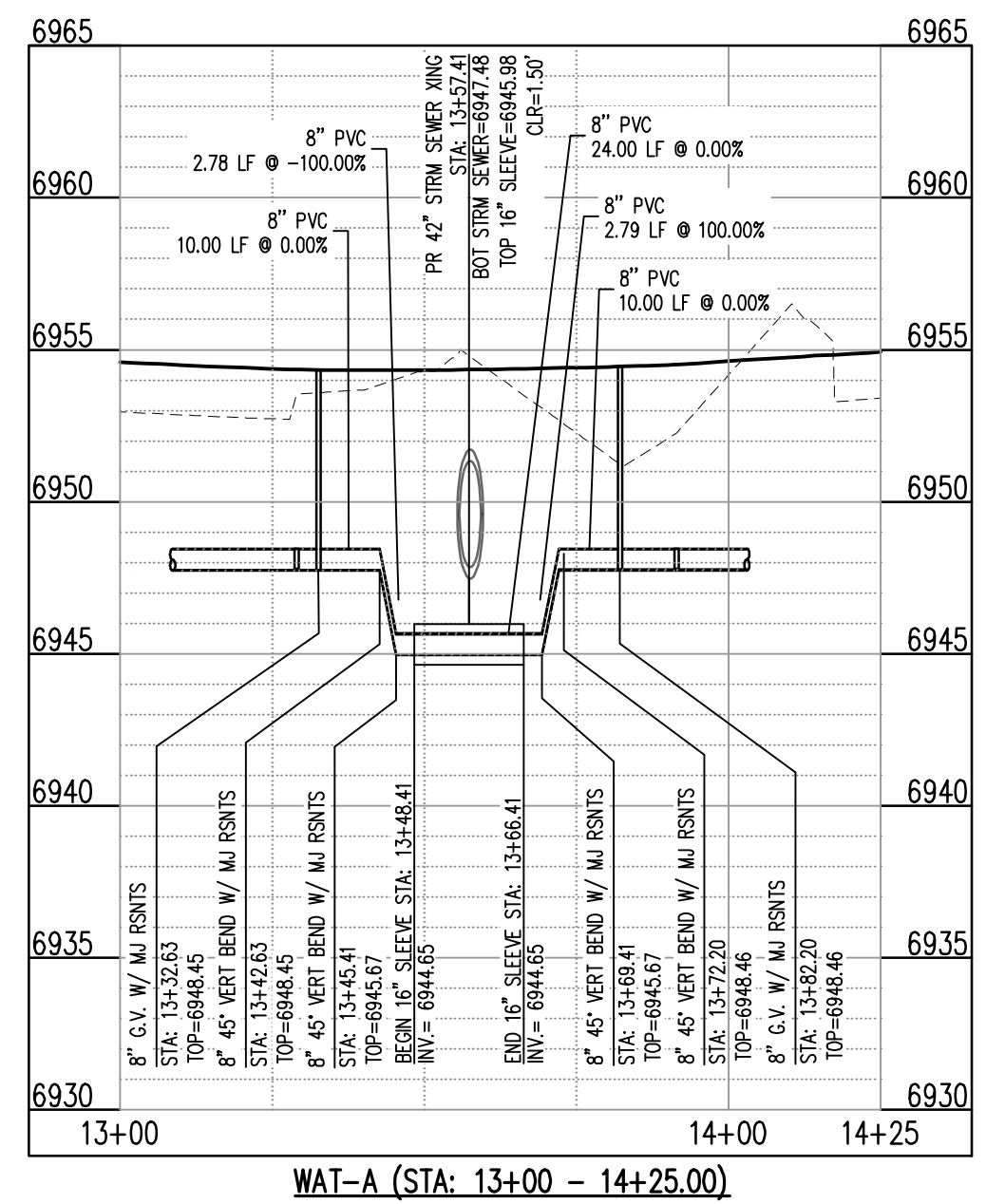
#	Date	Issue / Description	Init.

Project No: HRG02  
 Drawn By: JDM  
 Checked By: RGD  
 Date: 10/14/2022

**OVERALL SHEET**







- UTILITY LEGEND**
- W — EXISTING WATER LINE
  - - - W - PROPOSED WATER LINE
  - - - SS - EXISTING SANITARY SEWER
  - - - SS - PROPOSED SANITARY SEWER
  - - - SS - EXISTING STORM SEWER
  - - - SS - PROPOSED STORM SEWER
  - - - G - EXISTING GAS LINE
  - - - G - PROPOSED GAS LINE
  - - EXISTING STREET LIGHT
  - - PROPOSED STREET LIGHT
  - - PROPOSED WATER METER
  - - EXISTING WATER VALVE
  - - PROPOSED WATER VALVE
  - - EXISTING FIRE HYDRANT
  - - PROPOSED FIRE HYDRANT
  - - EXISTING STORM SEWER MANHOLE
  - - PROPOSED STORM SEWER MANHOLE
  - - EXISTING SANITARY SEWER MANHOLE
  - - PROPOSED SANITARY SEWER MANHOLE

- SITE LEGEND**
- P — PROPERTY BOUNDARY LINE
  - - - P — ADJACENT PROPERTY BOUNDARY LINE
  - - - R — RIGHT OF WAY BOUNDARY LINE
  - - - S — SECTION LINE
  - - - L — EXISTING ADJACENT LOT LINE
  - - - L — PROPOSED LOT LINE
  - - - E — EXISTING EASEMENT LINE
  - - - E — PROPOSED EASEMENT LINE
  - - - C — ROAD CENTERLINE
  - - - R — PROPOSED RIDGE LINE
  - - - S — PROPOSED SWALE LINE
  - - - S — EXISTING SWALE LINE
  - - - F — FLOODPLAIN BOUNDARY
  - - - F — EXISTING FLOOD ZONE
  - - - F — EXISTING FLOOD ZONE SETBACK
  - - - C — PROPOSED CURB AND GUTTER
  - - - C — EXISTING CURB AND GUTTER
  - - - S — PROPOSED SIDEWALK
  - - - S — PROPOSED TRAIL
  - - - G — PROPOSED GRAVEL PER EGM TABLE D-7
  - - - P — RIPRAP OUTFALL PADS
  - - EXISTING SIGN
  - - PROPOSED SIGN

- NOTES**
- ALL WATER MAINS SHALL BE NO CLOSER THAN FIVE FEET (5') TO EDGE OF CONCRETE CUR AND/OR GUTTER.
  - 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.
  - 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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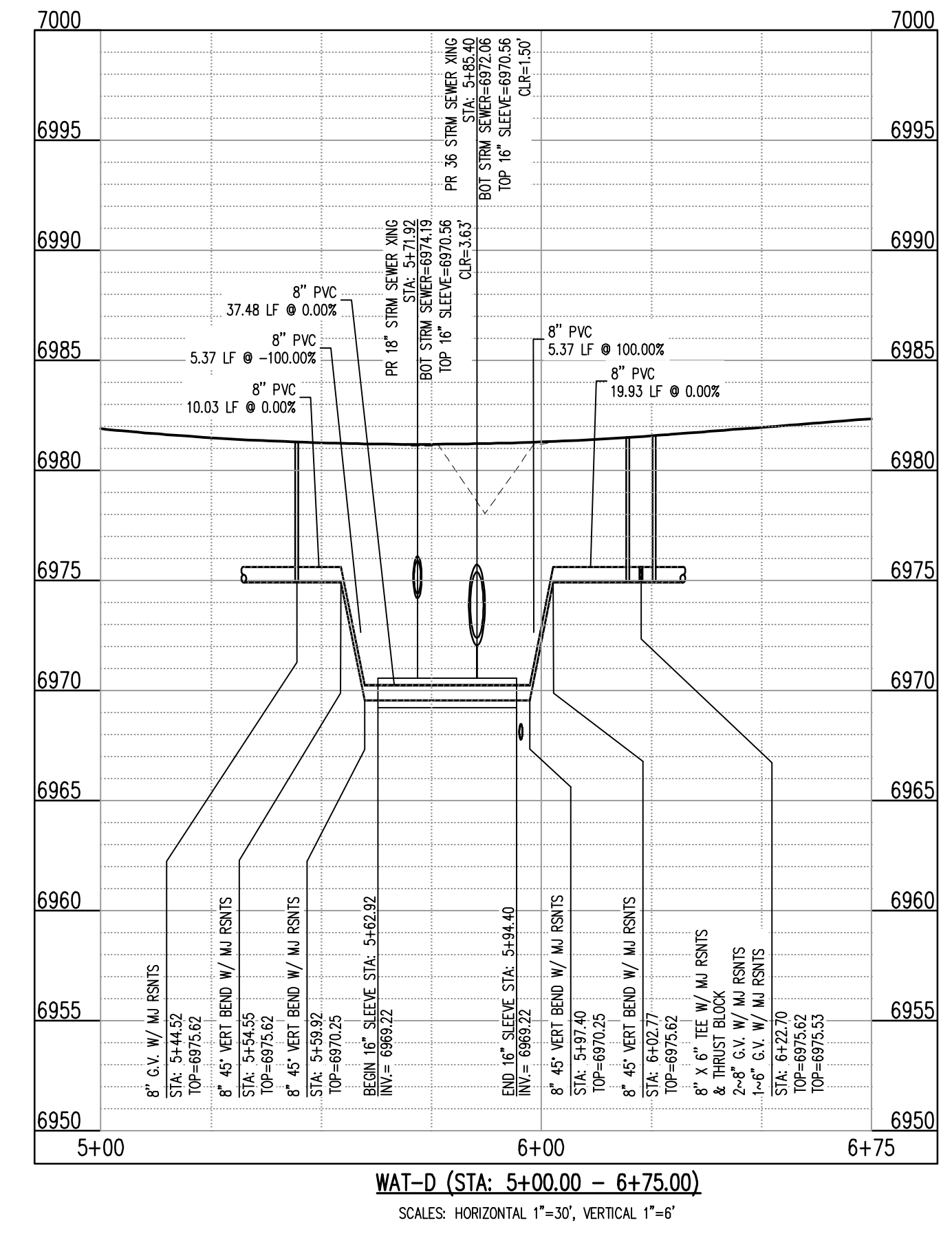
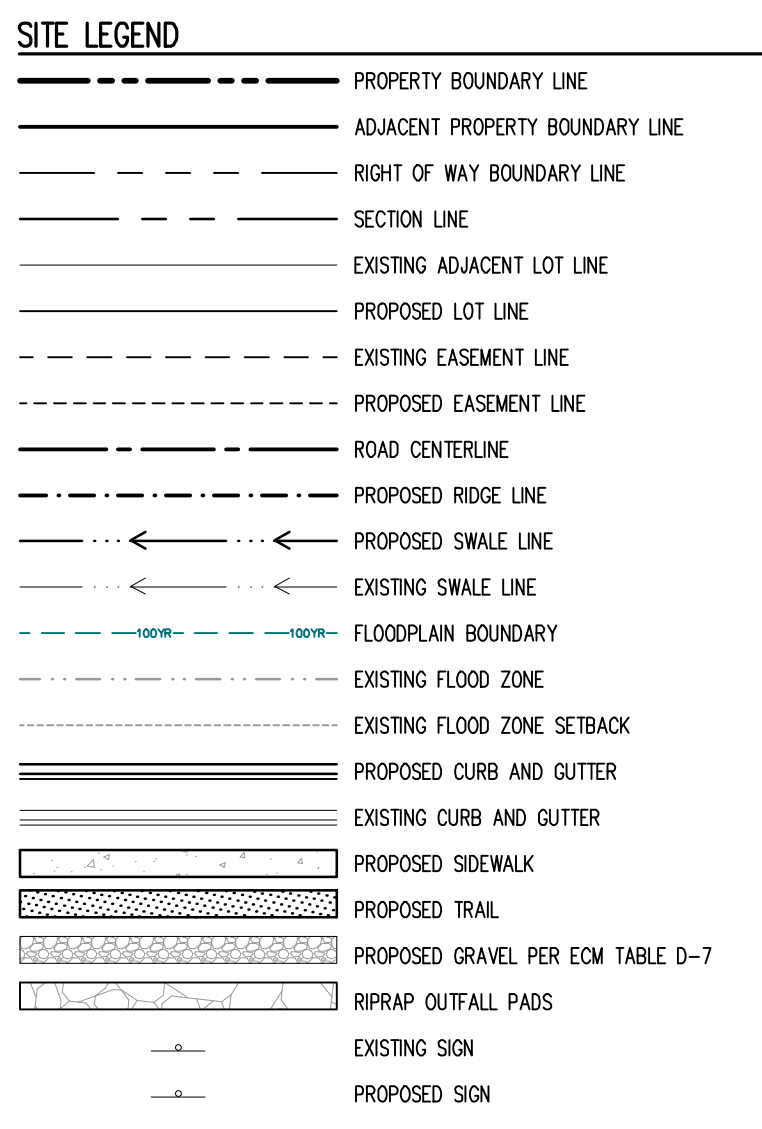
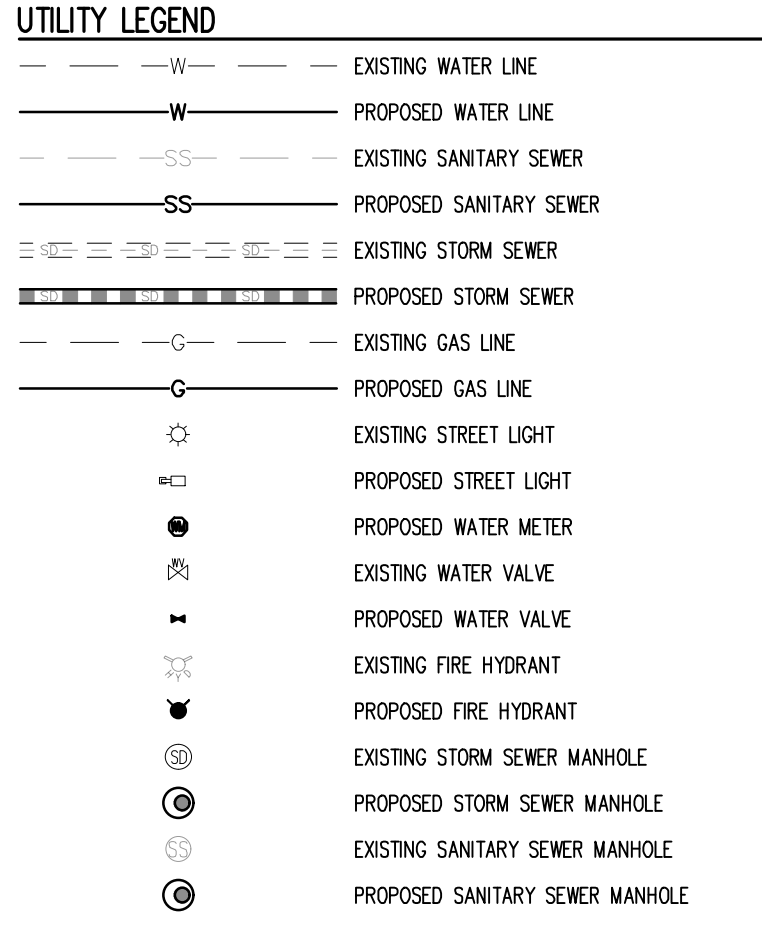
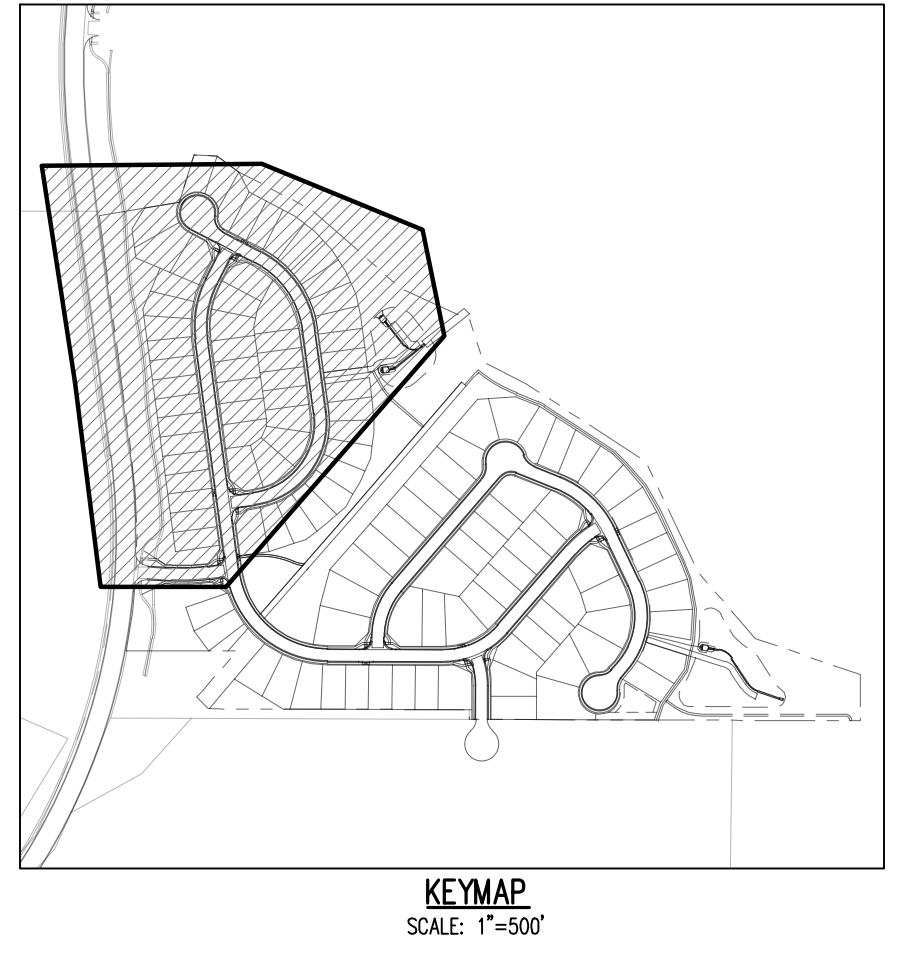
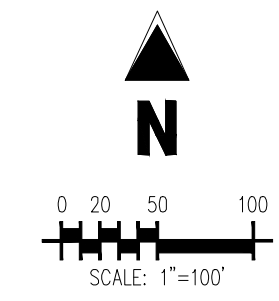
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Project No: HRC02  
 Drawn By: JDM  
 Checked By: RGD  
 Date: 10/14/2022



4 WAY RANCH JOINT VENTURE LLC  
 PARCEL NO: 4200000417  
 ZONE: RUD  
 LAND USE: VACANT LAND > 100 ACRES  
 PLAT NO:  
 PO BOX 50223  
 COLORADO SPRINGS, CO 80949



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  - 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.
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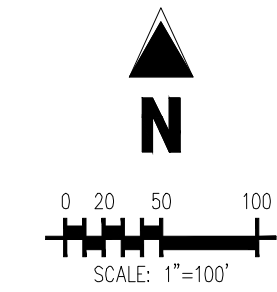
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**GRANDVIEW RESERVE FILING NO. 1**  
**4 SITE INVESTMENTS, LLC (D.R. HORTON)**  
**SF-22-XXX**

**EASTONVILLE RD & REX RD**  
**EL PASO COUNTY, FALCON, CO 80831**

#	Date	Issue / Description	Init.

Project No: HRC02  
Drawn by: JDM  
Checked by: RGD  
Date: 10/14/2022

**WATER PLAN**



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**SF-22-XXX**

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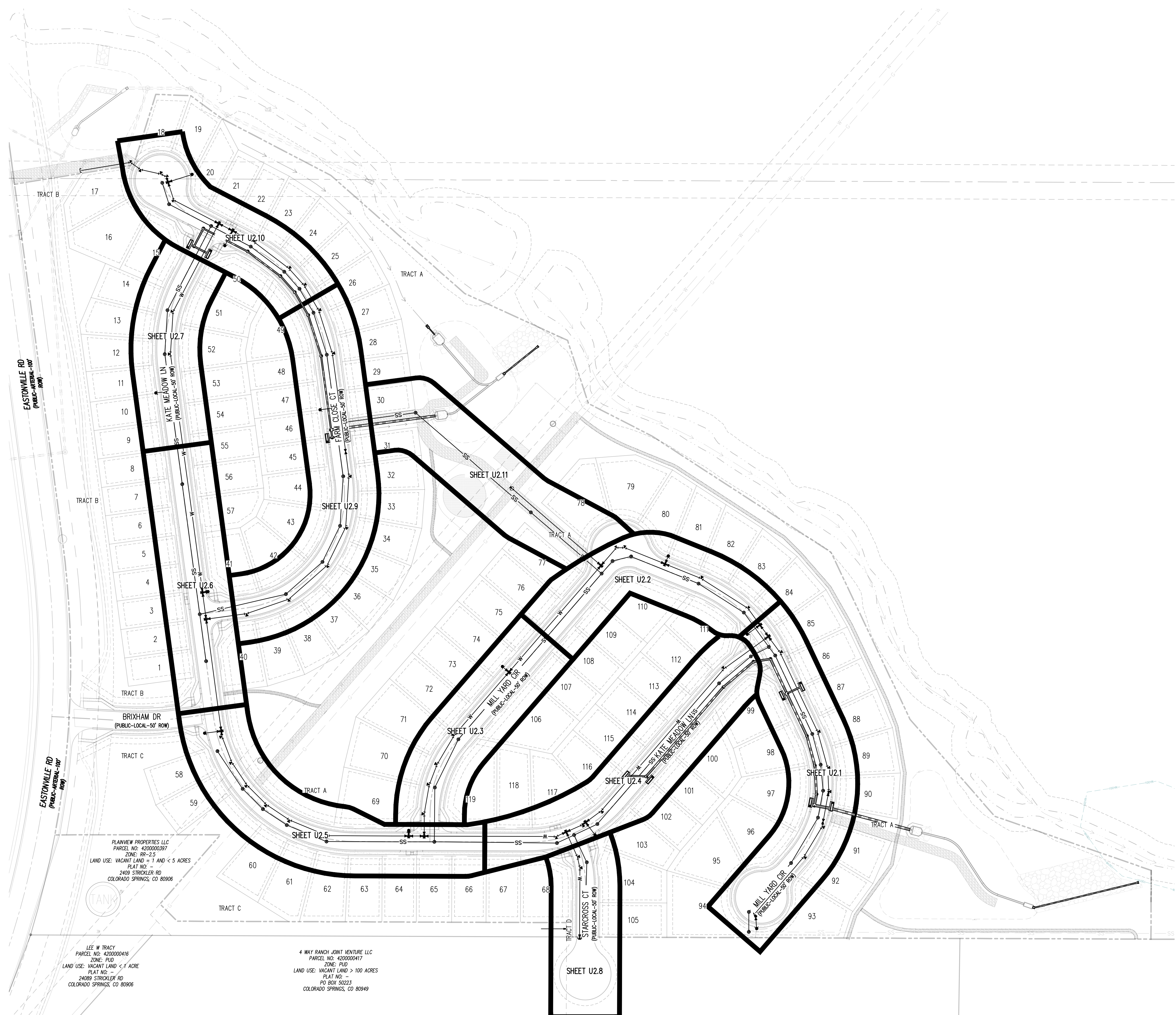
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Project No: HRG02  
Drawn By: JDM  
Checked By: RGD  
Date: 10/14/2022

WASTEWATER KEY MAP

## U2.0

Sheet 7 of 22



PLAINVIEW PROPERTIES LLC  
PARCEL NO: 4200000397  
ZONE: RR-2.5  
LAND USE: VACANT LAND = 1 AND < 5 ACRES  
PLAT NO: 2409 STROCKLER RD  
COLORADO SPRINGS, CO 80906

LEE W TRACY  
PARCEL NO: 4200000416  
ZONE: PUD  
LAND USE: VACANT LAND < 1 ACRE  
PLAT NO: 2409 STROCKLER RD  
COLORADO SPRINGS, CO 80906

4 WAY RANCH JOINT VENTURE LLC  
PARCEL NO: 4200000417  
ZONE: PUD  
LAND USE: VACANT LAND > 100 ACRES  
PLAT NO: FD BOX 50223  
COLORADO SPRINGS, CO 80949

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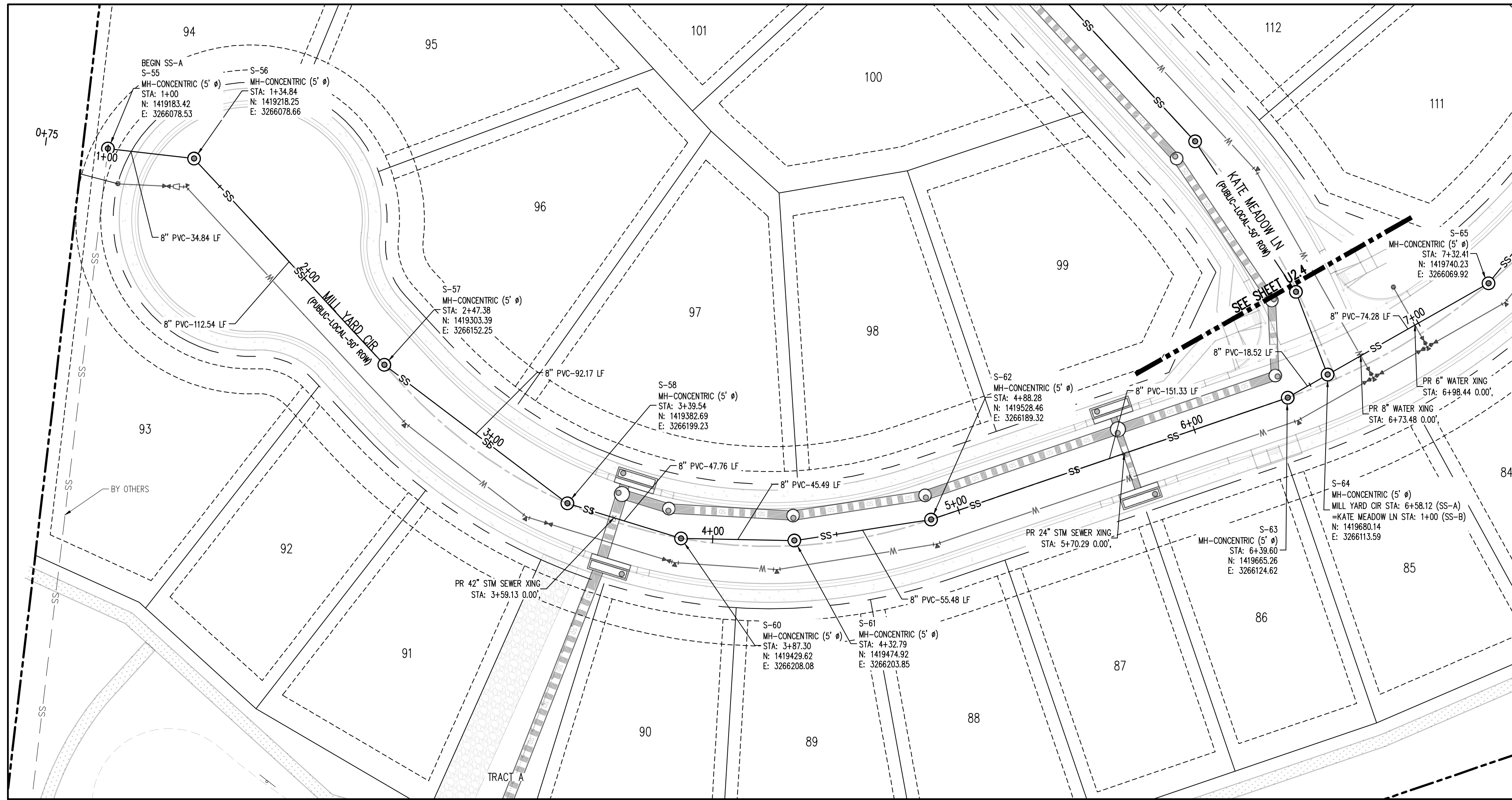
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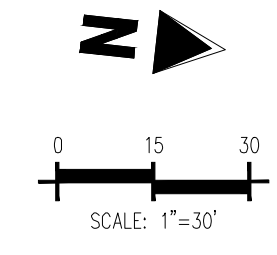
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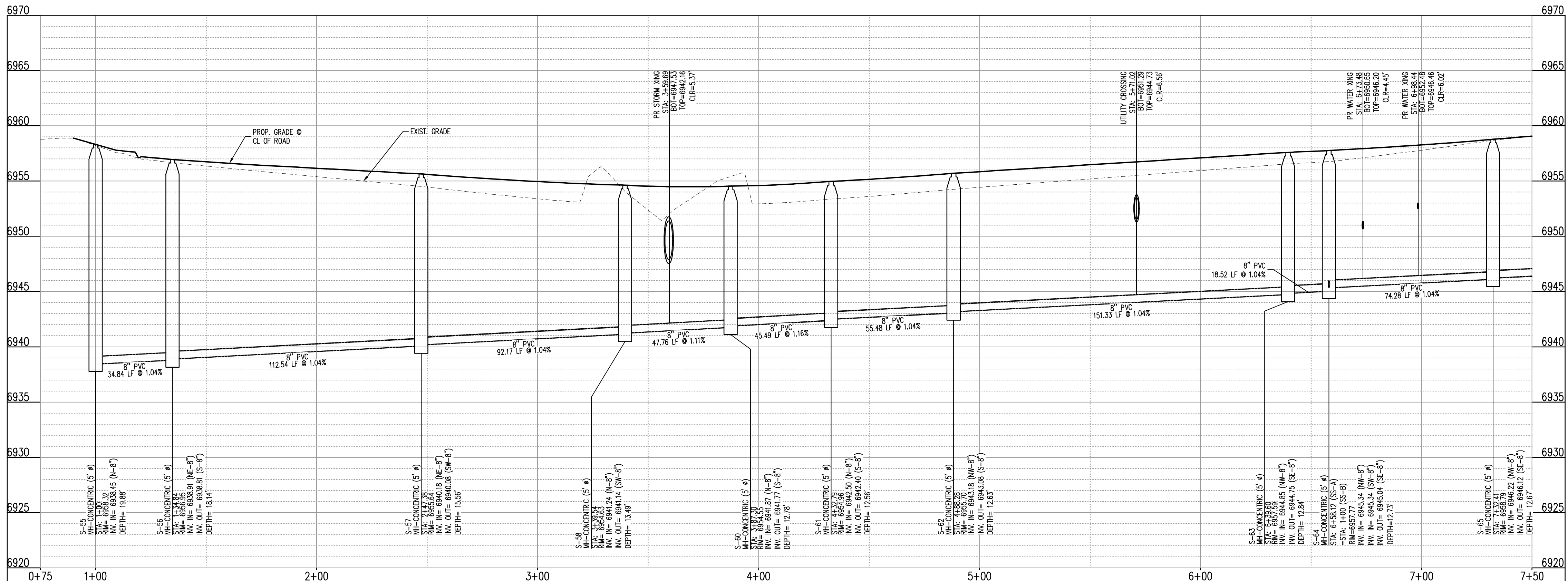


SANITARY SEWER LINE PLAN: SS-A (STA: 0+75 - 7+50)  
SCALE: 1"=30'



KEYMAP  
SCALE: 1"=500'

- UTILITY LEGEND**
- W — EXISTING WATER LINE
  - W — PROPOSED WATER LINE
  - SS — EXISTING SANITARY SEWER
  - SS — PROPOSED SANITARY SEWER
  - SS — EXISTING STORM SEWER
  - SS — PROPOSED STORM SEWER
  - G — EXISTING GAS LINE
  - G — PROPOSED GAS LINE
  - S — EXISTING STREET LIGHT
  - S — PROPOSED STREET LIGHT
  - M — PROPOSED WATER METER
  - V — EXISTING WATER VALVE
  - V — PROPOSED WATER VALVE
  - H — EXISTING FIRE HYDRANT
  - H — PROPOSED FIRE HYDRANT
  - M — EXISTING STORM SEWER MANHOLE
  - M — PROPOSED STORM SEWER MANHOLE
  - M — EXISTING SANITARY SEWER MANHOLE
  - M — PROPOSED SANITARY SEWER MANHOLE



SANITARY SEWER LINE PROFILE: SS-A (STA: 0+75 - 7+50)  
SCALES: HORIZONTAL 1"=30', VERTICAL 1"=6'

- SITE LEGEND**
- P — PROPERTY BOUNDARY LINE
  - A — ADJACENT PROPERTY BOUNDARY LINE
  - R — RIGHT OF WAY BOUNDARY LINE
  - S — SECTION LINE
  - L — EXISTING ADJACENT LOT LINE
  - E — EXISTING EASEMENT LINE
  - P — PROPOSED EASEMENT LINE
  - C — ROAD CENTERLINE
  - R — PROPOSED RIDGE LINE
  - S — PROPOSED SWALE LINE
  - S — EXISTING SWALE LINE
  - F — FLOODPLAIN BOUNDARY
  - F — EXISTING FLOOD ZONE
  - F — EXISTING FLOOD ZONE SETBACK
  - C — PROPOSED CURB AND GUTTER
  - C — EXISTING CURB AND GUTTER
  - S — PROPOSED SIDEWALK
  - T — PROPOSED TRAIL
  - G — PROPOSED GRAVEL PER EGM TABLE D-7
  - P — RIPRAP OUTFALL PADS
  - S — EXISTING SIGN
  - S — PROPOSED SIGN

- NOTES**
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**CAUTION - NOTICE TO CONTRACTOR**

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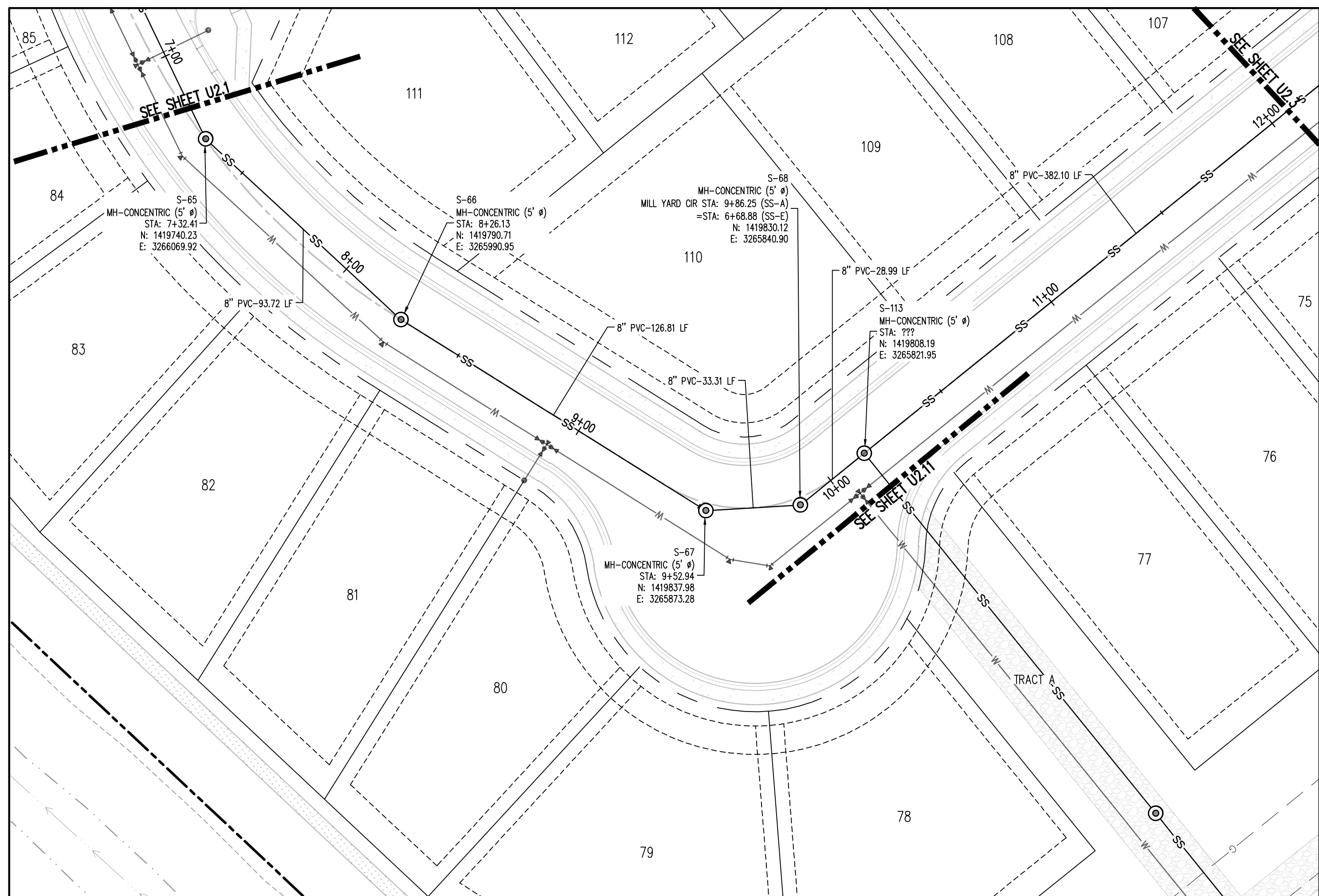
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**GRADING & EROSION CONTROL PLANS**  
GRANDVIEW RESERVE FILING NO. 1  
4 SITE INVESTMENTS, LLC (D.R. HORTON)  
SF-22-XXX  
EASTONVILLE RD & REX RD  
EL PASO COUNTY, FALCON, CO 80831

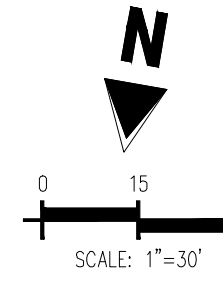
#	Date	Issue / Description	Init.

Project No:	HRG02
Drawn By:	JDM
Checked By:	RGD
Date:	10/14/2022

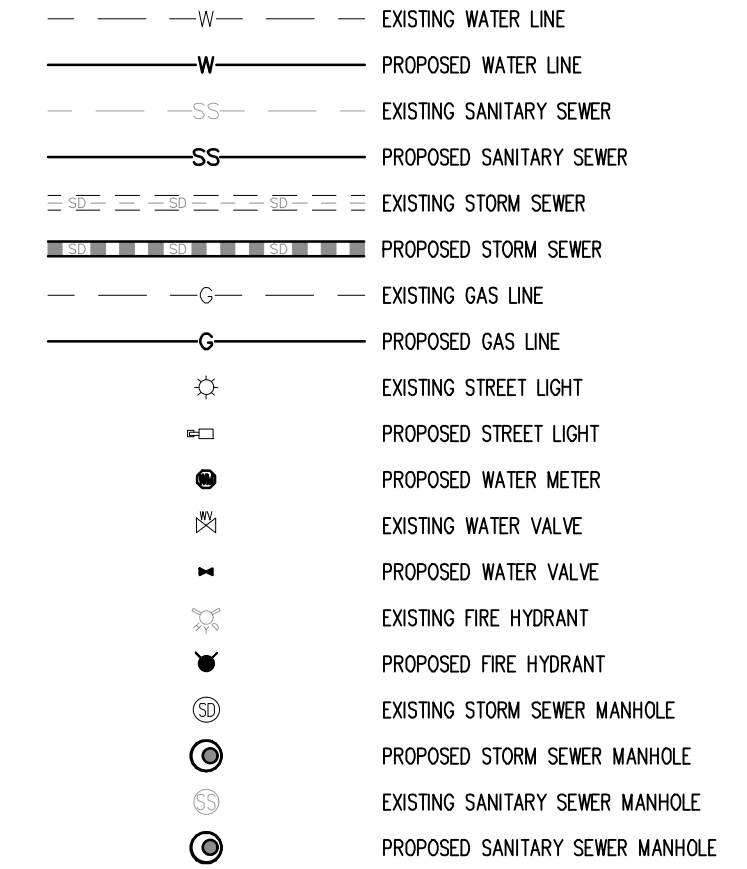
WASTEWATER P&P



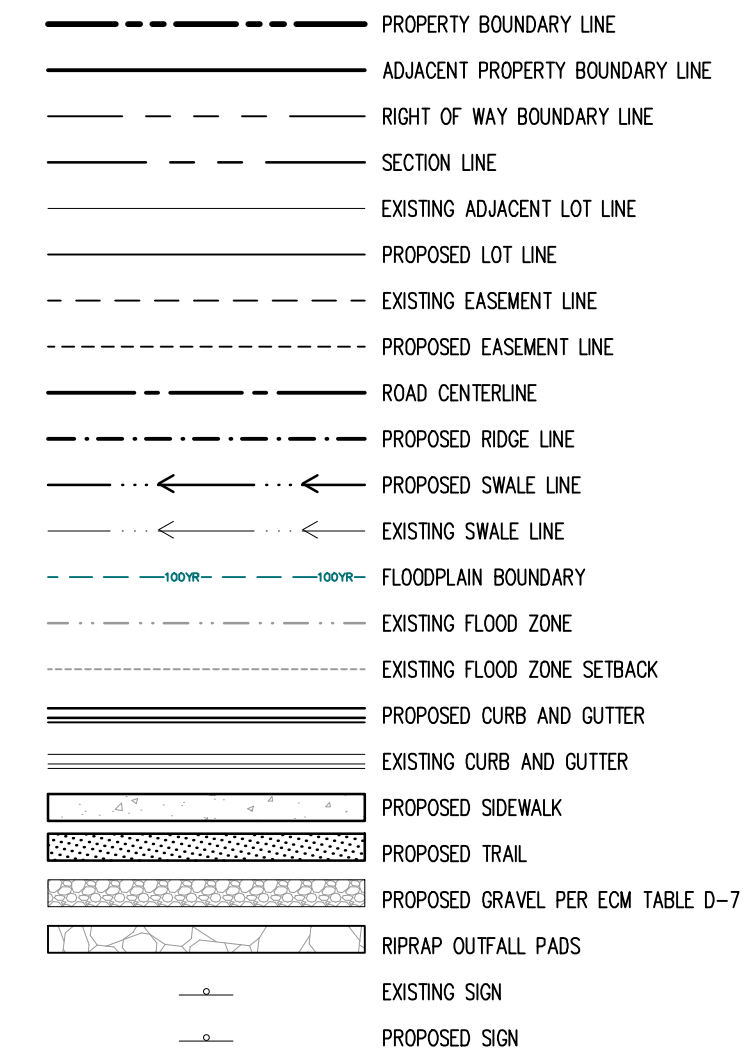
**SANITARY SEWER LINE PLAN: SS-A (STA: 7+00 - 12+25)**  
SCALE: 1"=30'



**UTILITY LEGEND**



**SITE LEGEND**

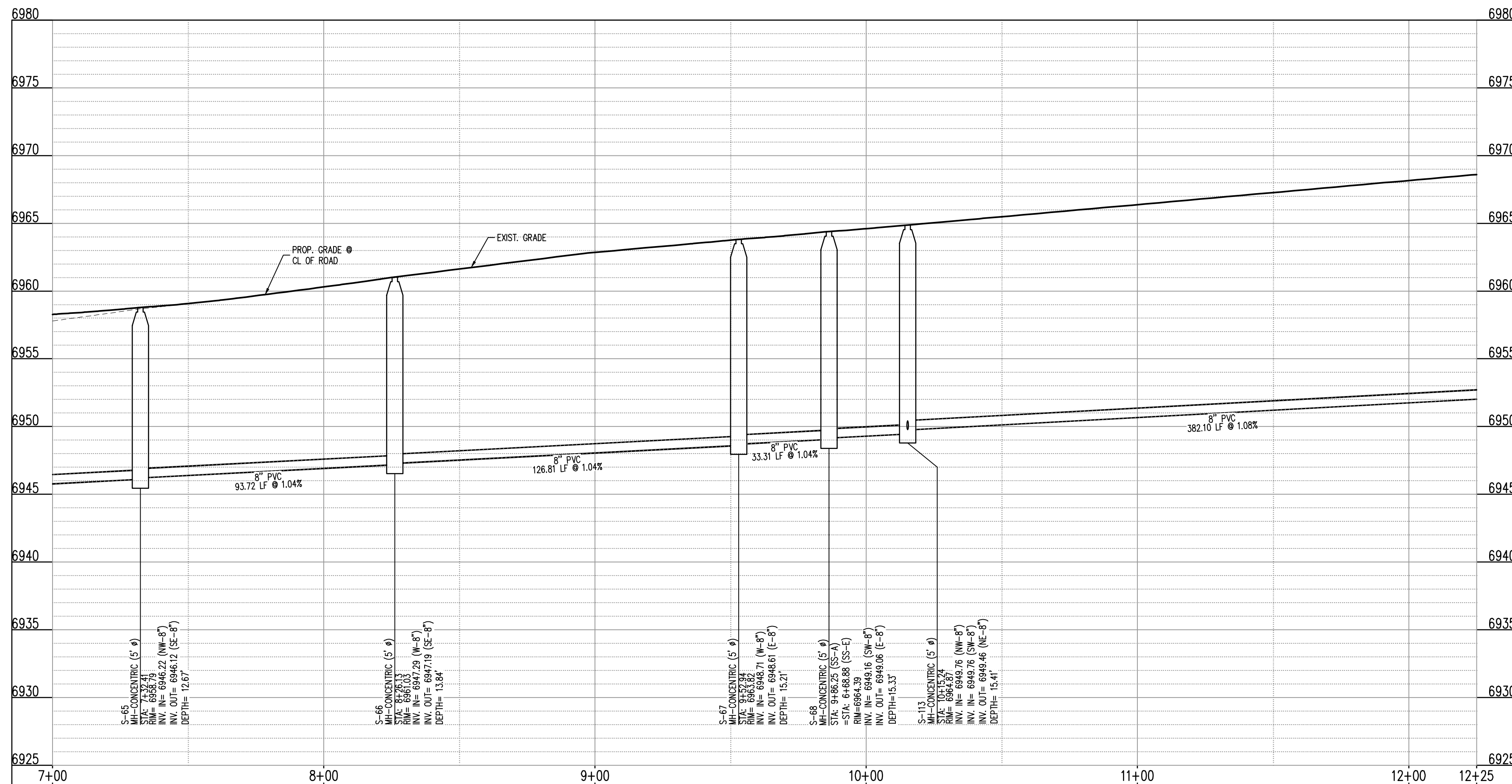


**NOTES**

- ALL PROPOSED MANHOLES SHALL CONFORM TO WOODMEN HILLS METRO DISTRICT DETAIL WW-2

**CAUTION - NOTICE TO CONTRACTOR**

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**SANITARY SEWER LINE PROFILE: SS-A (STA: 7+00 - 12+25)**  
SCALES: HORIZONTAL 1"=30', VERTICAL 1"=6'

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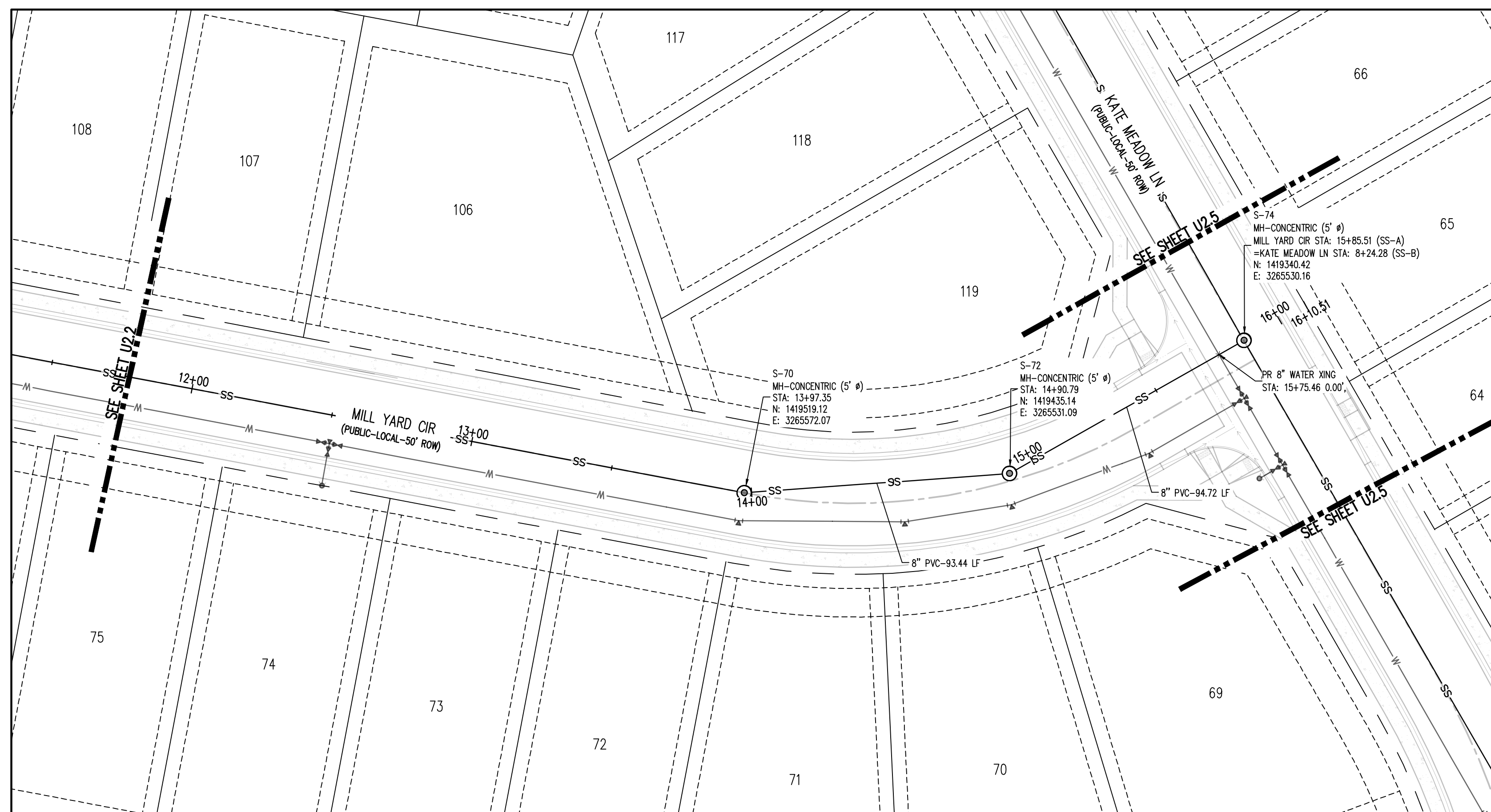
#	Date	Issue / Description	Init.

Project No: HRG02  
Drawn By: JDM  
Checked By: RGD  
Date: 10/14/2022

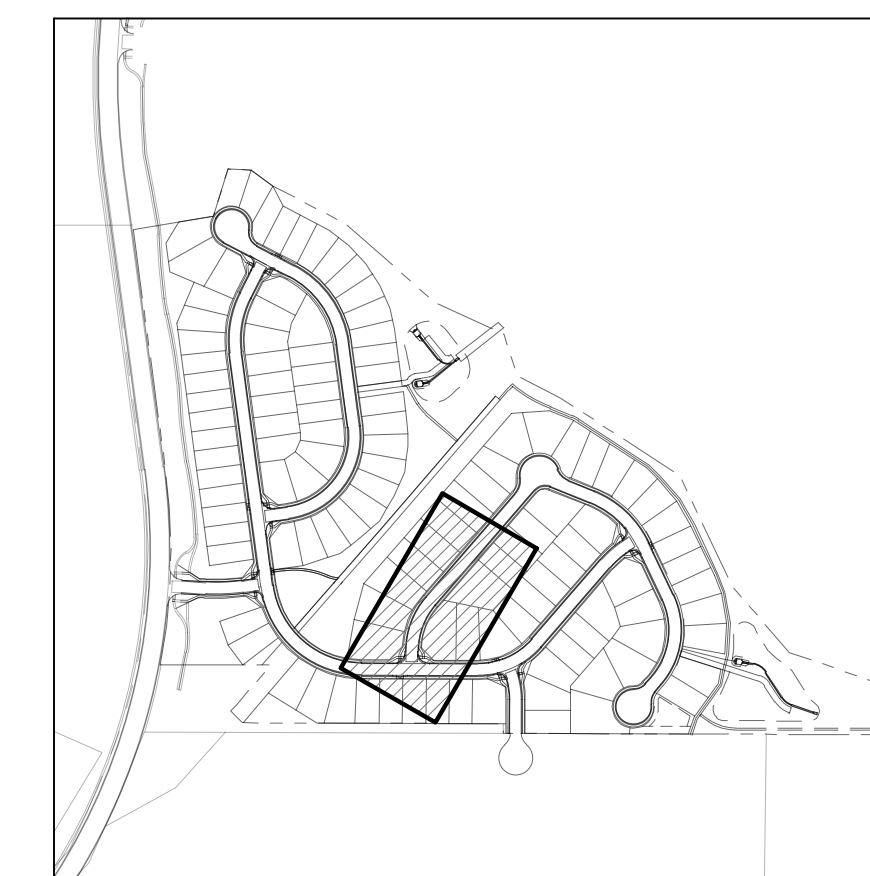
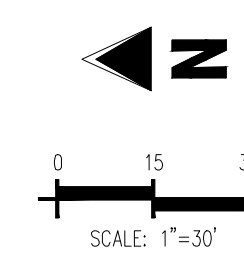
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GRADING & EROSION CONTROL PLANS  
GRANDVIEW RESERVE FILING NO. 1  
4 SITE INVESTMENTS, LLC (D.R. HORTON)  
SF-22-XXX

EASTONVILLE RD & REX RD  
EL PASO COUNTY, FALCON, CO 80831



SANITARY SEWER LINE PLAN: SS-A (STA: 11+75 - 16+25)  
SCALE: 1"=30'



KEYMAP  
SCALE: 1"=500'

**UTILITY LEGEND**

- EXISTING WATER LINE
- - - - PROPOSED WATER LINE
- EXISTING SANITARY SEWER
- - - - PROPOSED SANITARY SEWER
- EXISTING STORM SEWER
- - - - PROPOSED STORM SEWER
- EXISTING GAS LINE
- - - - PROPOSED GAS LINE
- ☉ EXISTING STREET LIGHT
- ☐ PROPOSED STREET LIGHT
- PROPOSED WATER METER
- ◉ EXISTING WATER VALVE
- ◉ PROPOSED WATER VALVE
- ⊙ EXISTING FIRE HYDRANT
- ⊙ PROPOSED FIRE HYDRANT
- ⊕ EXISTING STORM SEWER MANHOLE
- ⊕ PROPOSED STORM SEWER MANHOLE
- ⊕ EXISTING SANITARY SEWER MANHOLE
- ⊕ PROPOSED SANITARY SEWER MANHOLE

**SITE LEGEND**

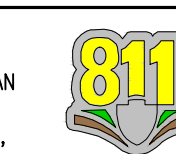
- - - - PROPERTY BOUNDARY LINE
- - - - ADJACENT PROPERTY BOUNDARY LINE
- - - - RIGHT OF WAY BOUNDARY LINE
- - - - SECTION LINE
- - - - EXISTING ADJACENT LOT LINE
- - - - PROPOSED LOT LINE
- - - - EXISTING EASEMENT LINE
- - - - PROPOSED EASEMENT LINE
- - - - ROAD CENTERLINE
- - - - PROPOSED RIDGE LINE
- - - - PROPOSED SWALE LINE
- - - - EXISTING SWALE LINE
- - - - FLOODPLAIN BOUNDARY
- - - - EXISTING FLOOD ZONE
- - - - EXISTING FLOOD ZONE SETBACK
- - - - PROPOSED CURB AND GUTTER
- - - - EXISTING CURB AND GUTTER
- - - - PROPOSED SIDEWALK
- - - - PROPOSED TRAIL
- - - - PROPOSED GRAVEL PER EGM TABLE D-7
- - - - RIPRAP OUTFALL PADS
- ☉ EXISTING SIGN
- ☉ PROPOSED SIGN

**NOTES**

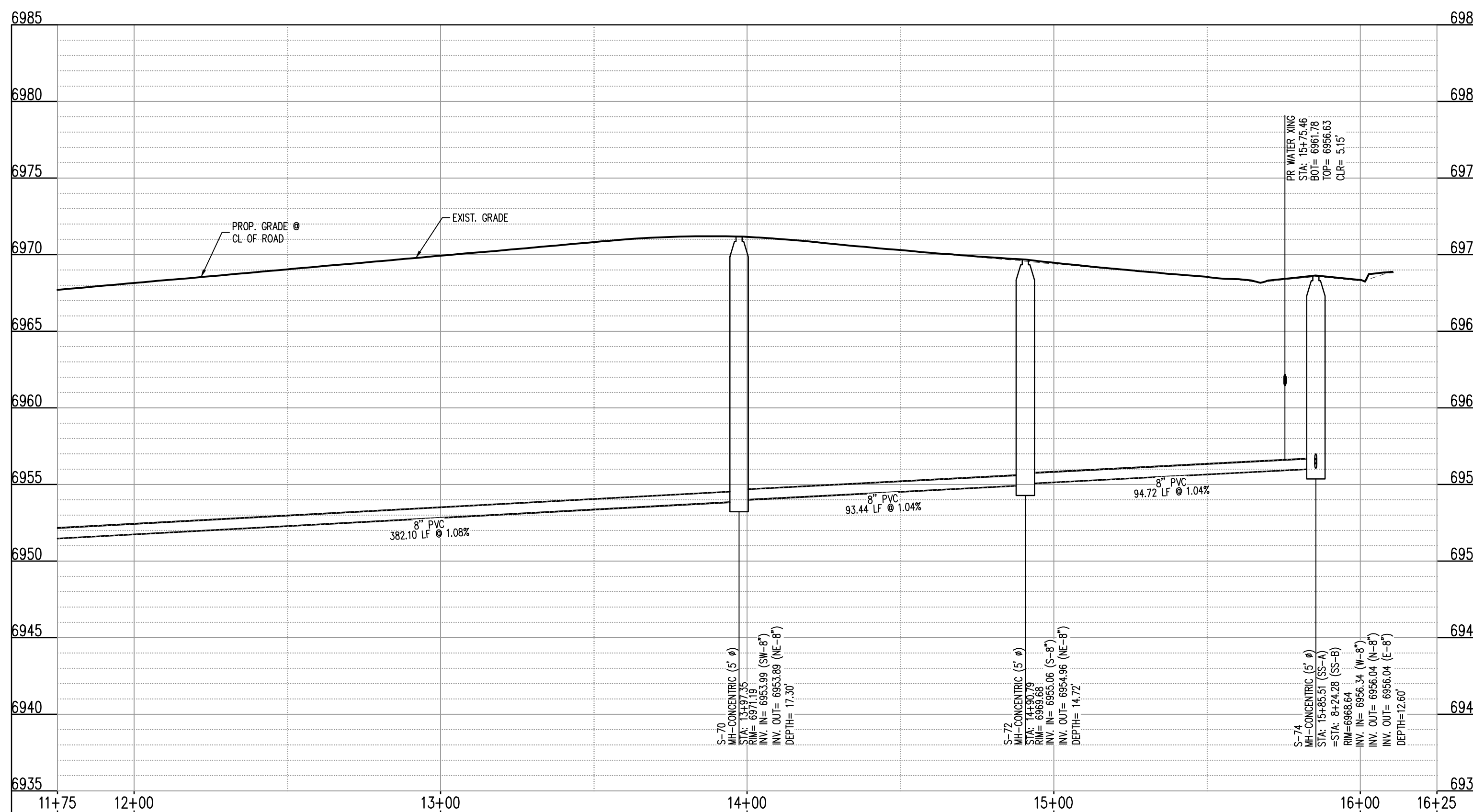
1. ALL PROPOSED MANHOLES SHALL CONFORM TO WOODMEN HILLS METRO DISTRICT DETAIL WW-2

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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 POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.



Know what's below.  
Call before you dig.



SANITARY SEWER LINE PROFILE: SS-A (STA: 11+75 - 16+25)  
SCALE: HORIZONTAL 1"=30', VERTICAL 1"=6'

#	Date	Issue / Description	Init.

Project No:	HRG02
Drawn By:	JDM
Checked By:	RGD
Date:	10/14/2022

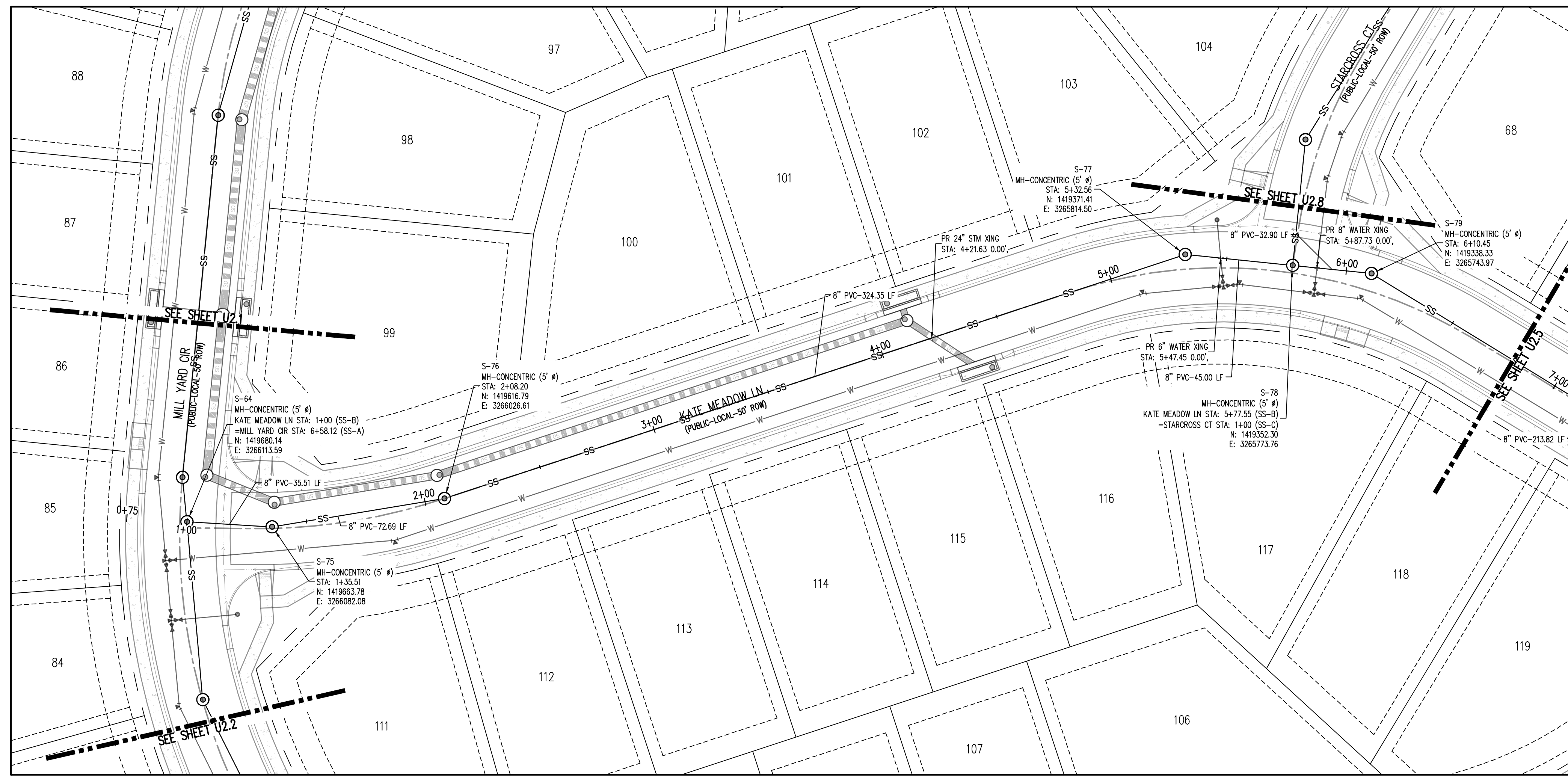
WASTEWATER P&P

#	Date	Issue / Description	Init.

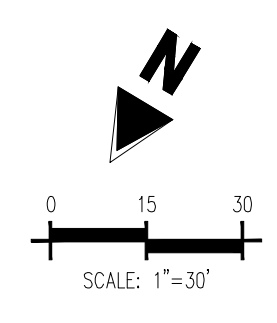
Project No: HRG02  
 Drawn By: JDM  
 Checked By: RGD  
 Date: 10/14/2022

WASTEWATER P&P

**U2.4**  
 Sheet 11 of 22



**SANITARY SEWER LINE PLAN: SS-B (STA: 0+75 - 7+00)**  
 SCALE: 1"=30'



**UTILITY LEGEND**

- W- EXISTING WATER LINE
- W- PROPOSED WATER LINE
- SS- EXISTING SANITARY SEWER
- SS- PROPOSED SANITARY SEWER
- G- EXISTING STORM SEWER
- G- PROPOSED STORM SEWER
- G- EXISTING GAS LINE
- G- PROPOSED GAS LINE
- ⊕ EXISTING STREET LIGHT
- ⊕ PROPOSED STREET LIGHT
- ⊕ EXISTING WATER METER
- ⊕ PROPOSED WATER METER
- ⊕ EXISTING WATER VALVE
- ⊕ PROPOSED WATER VALVE
- ⊕ EXISTING FIRE HYDRANT
- ⊕ PROPOSED FIRE HYDRANT
- ⊕ EXISTING STORM SEWER MANHOLE
- ⊕ PROPOSED STORM SEWER MANHOLE
- ⊕ EXISTING SANITARY SEWER MANHOLE
- ⊕ PROPOSED SANITARY SEWER MANHOLE

**SITE LEGEND**

- PROPERTY BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY LINE
- RIGHT OF WAY BOUNDARY LINE
- SECTION LINE
- EXISTING ADJACENT LOT LINE
- PROPOSED LOT LINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- ROAD CENTERLINE
- PROPOSED RIDGE LINE
- PROPOSED SWALE LINE
- EXISTING SWALE LINE
- FLOODPLAIN BOUNDARY
- EXISTING FLOOD ZONE
- EXISTING FLOOD ZONE SETBACK
- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- PROPOSED SIDEWALK
- PROPOSED TRAIL
- PROPOSED GRAVEL PER EGM TABLE D-7
- RIPRAP OUTFALL PADS
- EXISTING SIGN
- PROPOSED SIGN

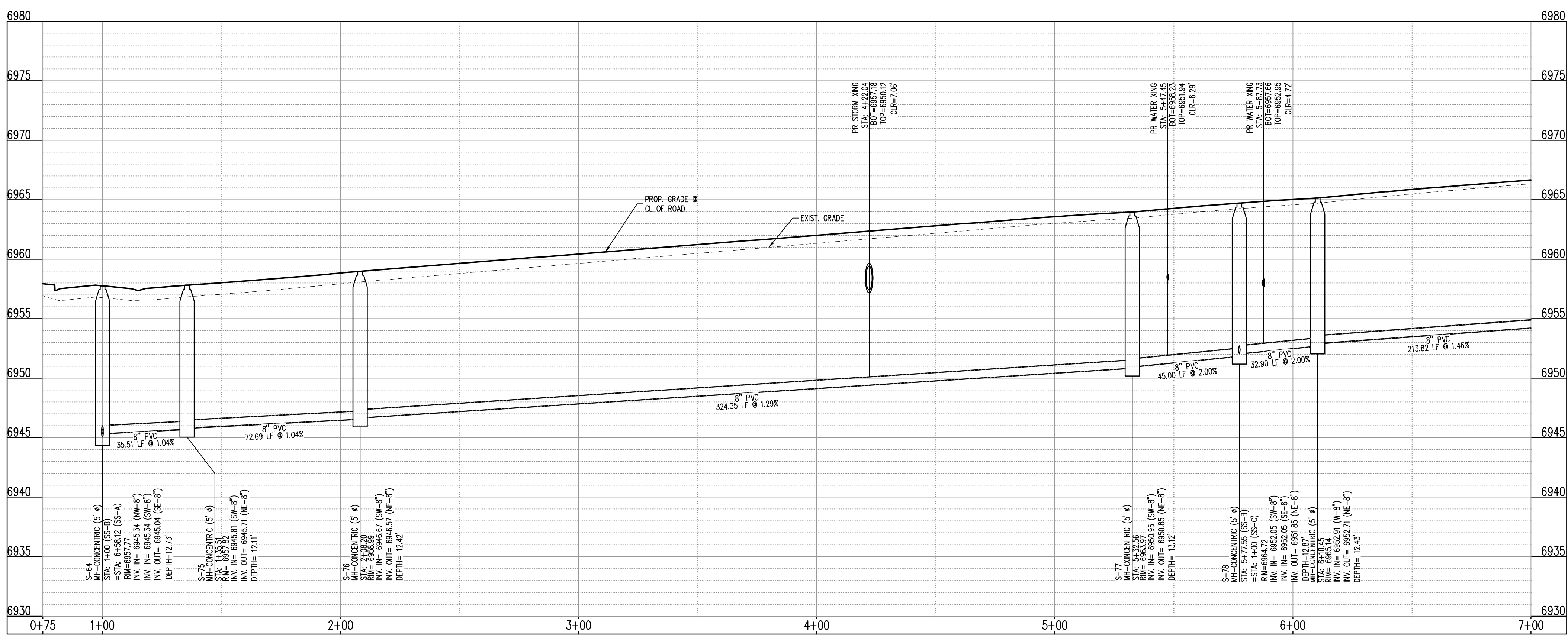
**NOTES**

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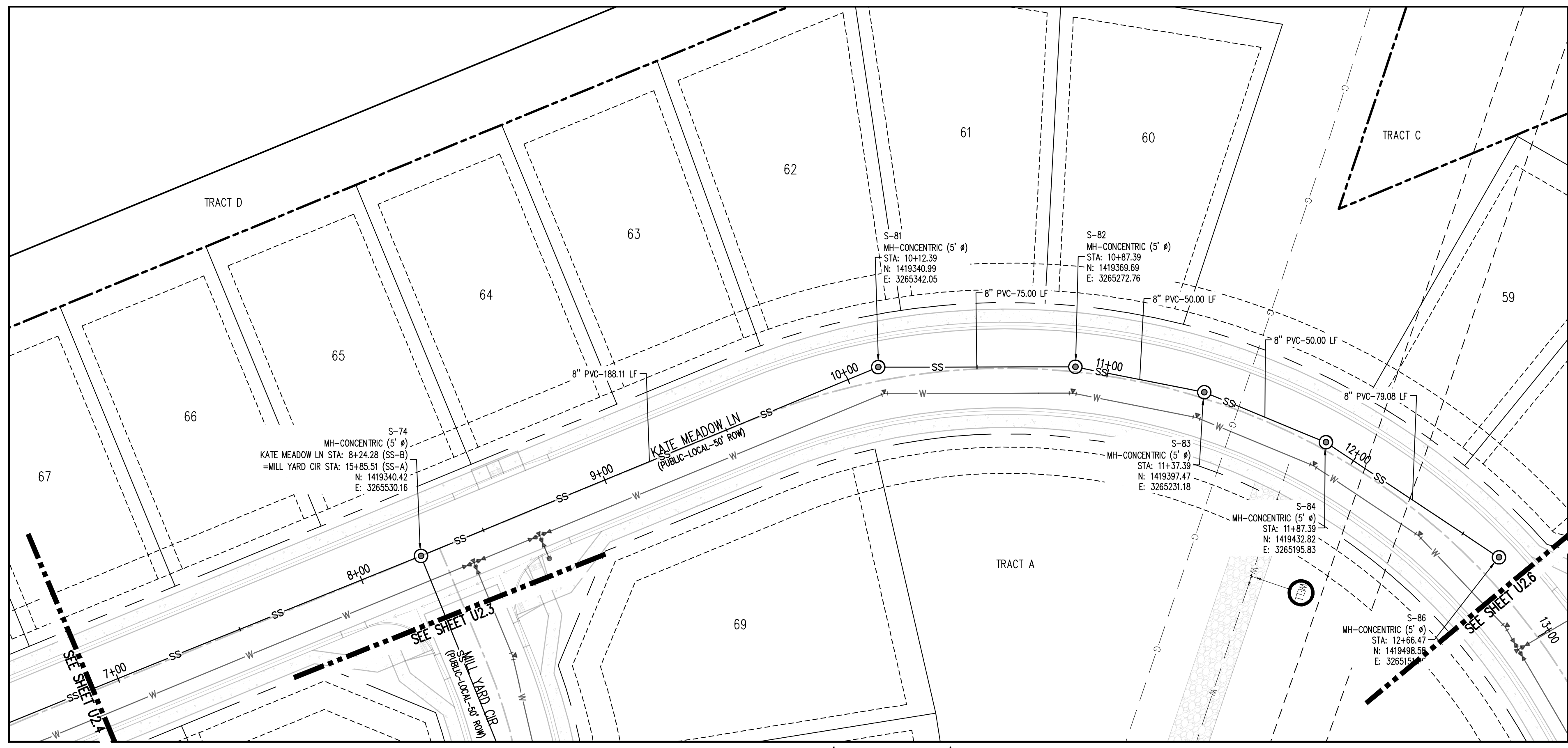
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**SANITARY SEWER LINE PROFILE: SS-B (STA: 0+75 - 7+00)**  
 SCALES: HORIZONTAL 1"=30', VERTICAL 1"=6'

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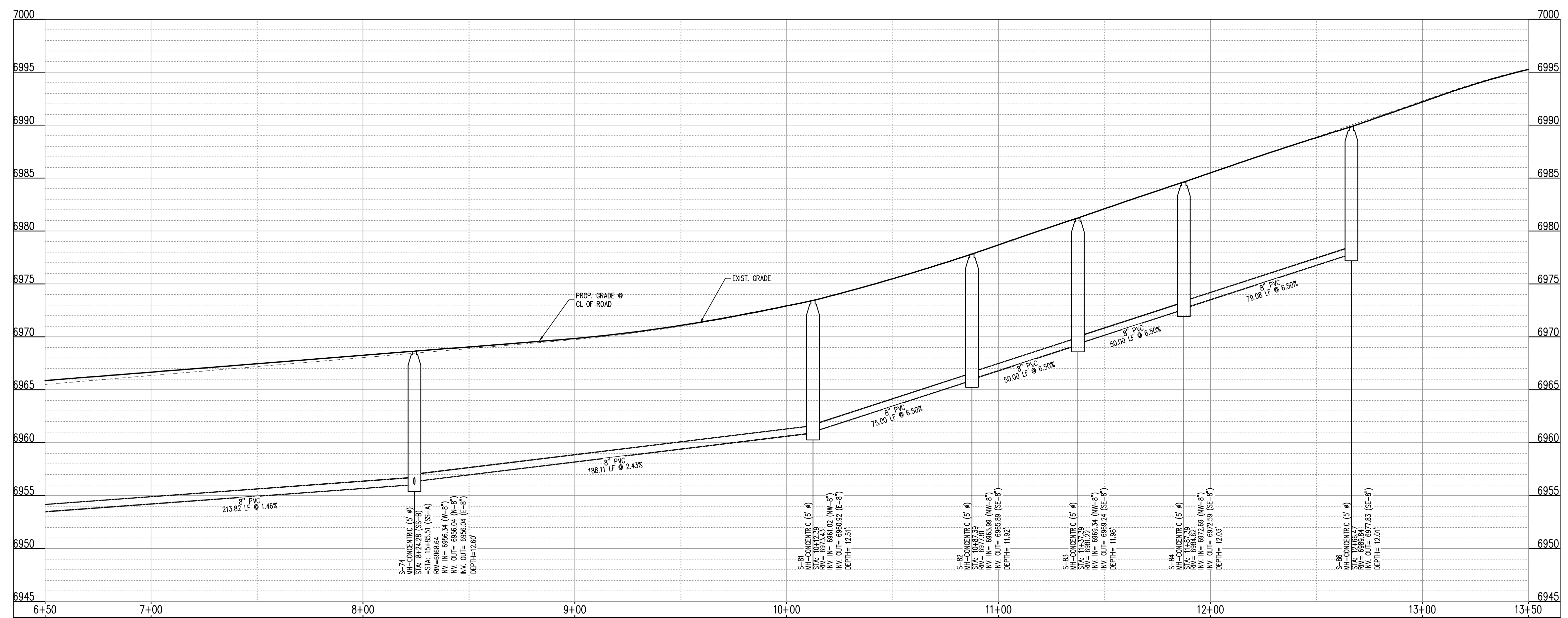
SANITARY SEWER LINE PLAN: SS-B (STA: 6+50 - 13+50)  
SCALE: 1"=30'



KEYMAP  
SCALE: 1"=500'

UTILITY LEGEND

- W — EXISTING WATER LINE
- W — PROPOSED WATER LINE
- SS — EXISTING SANITARY SEWER
- SS — PROPOSED SANITARY SEWER
- S — EXISTING STORM SEWER
- S — PROPOSED STORM SEWER
- G — EXISTING GAS LINE
- G — PROPOSED GAS LINE
- ⊙ EXISTING STREET LIGHT
- ⊙ PROPOSED STREET LIGHT
- ⊙ PROPOSED WATER METER
- ⊙ EXISTING WATER VALVE
- ⊙ PROPOSED WATER VALVE
- ⊙ EXISTING FIRE HYDRANT
- ⊙ PROPOSED FIRE HYDRANT
- ⊙ EXISTING STORM SEWER MANHOLE
- ⊙ PROPOSED STORM SEWER MANHOLE
- ⊙ EXISTING SANITARY SEWER MANHOLE
- ⊙ PROPOSED SANITARY SEWER MANHOLE



SANITARY SEWER LINE PROFILE: SS-B (STA: 6+50 - 13+50)  
SCALES: HORIZONTAL 1"=30', VERTICAL 1"=6'

SITE LEGEND

- PROPERTY BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY LINE
- RIGHT OF WAY BOUNDARY LINE
- SECTION LINE
- EXISTING ADJACENT LOT LINE
- PROPOSED LOT LINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- ROAD CENTERLINE
- PROPOSED RIDGE LINE
- PROPOSED SWALE LINE
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- EXISTING FLOOD ZONE SETBACK
- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- PROPOSED SIDEWALK
- PROPOSED TRAIL
- PROPOSED GRAVEL PER EGM TABLE D-7
- RIPRAP OUTLIFT PADS
- EXISTING SIGN
- PROPOSED SIGN

NOTES

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**GRADING & EROSION CONTROL PLANS**  
**GRANDVIEW RESERVE FILING NO. 1**  
**4 SITE INVESTMENTS, LLC (D.R. HORTON)**  
**SF-22-XXX**  
  
EASTONVILLE RD & REX RD  
EL PASO COUNTY, FALCON, CO 80831

#	Date	Issue / Description	Init.

Project No: HRG02  
Drawn By: JDM  
Checked By: RGD  
Date: 10/14/2022

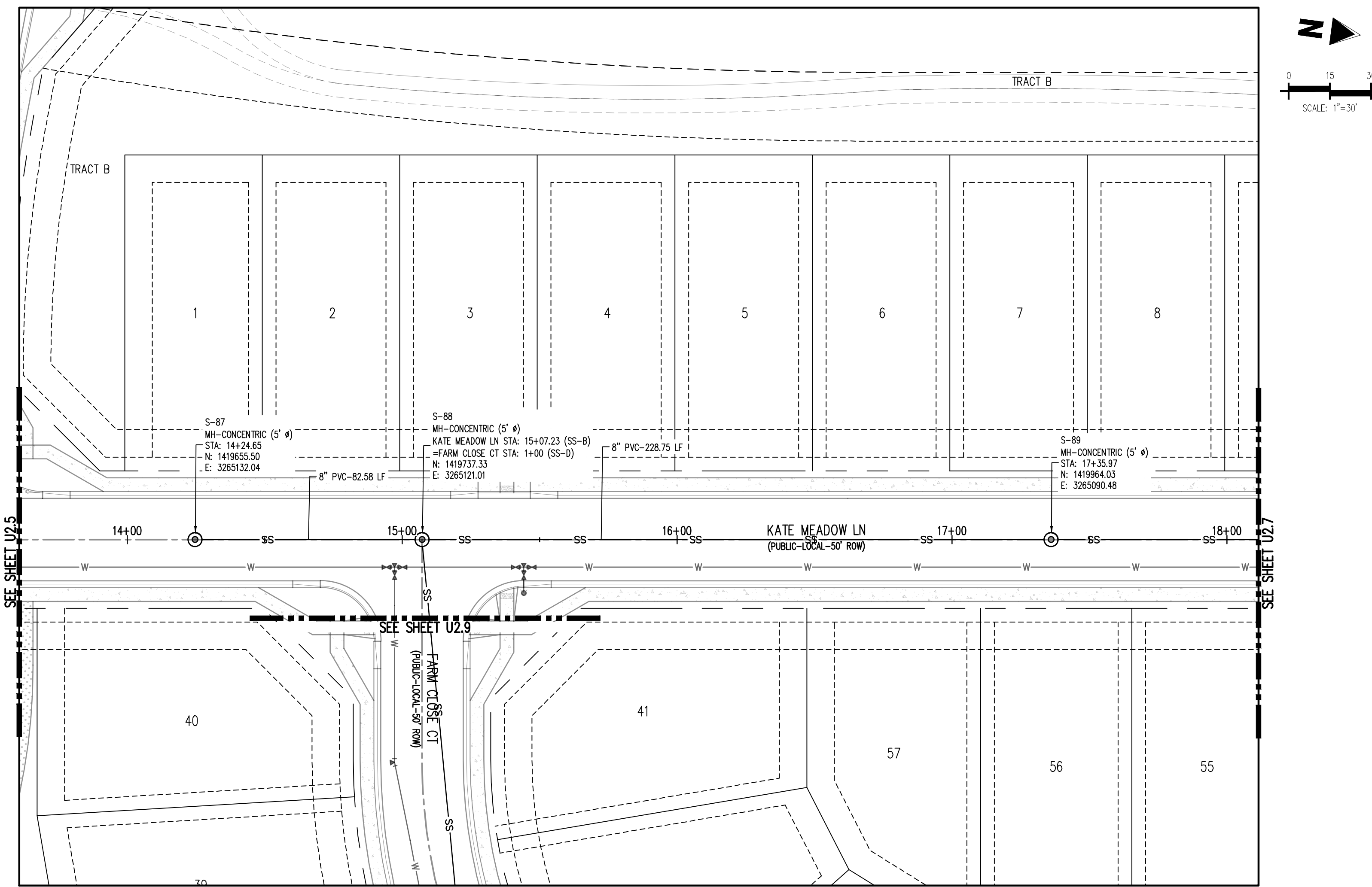
WASTEWATER P&P

#	Date	Issue / Description	Init.

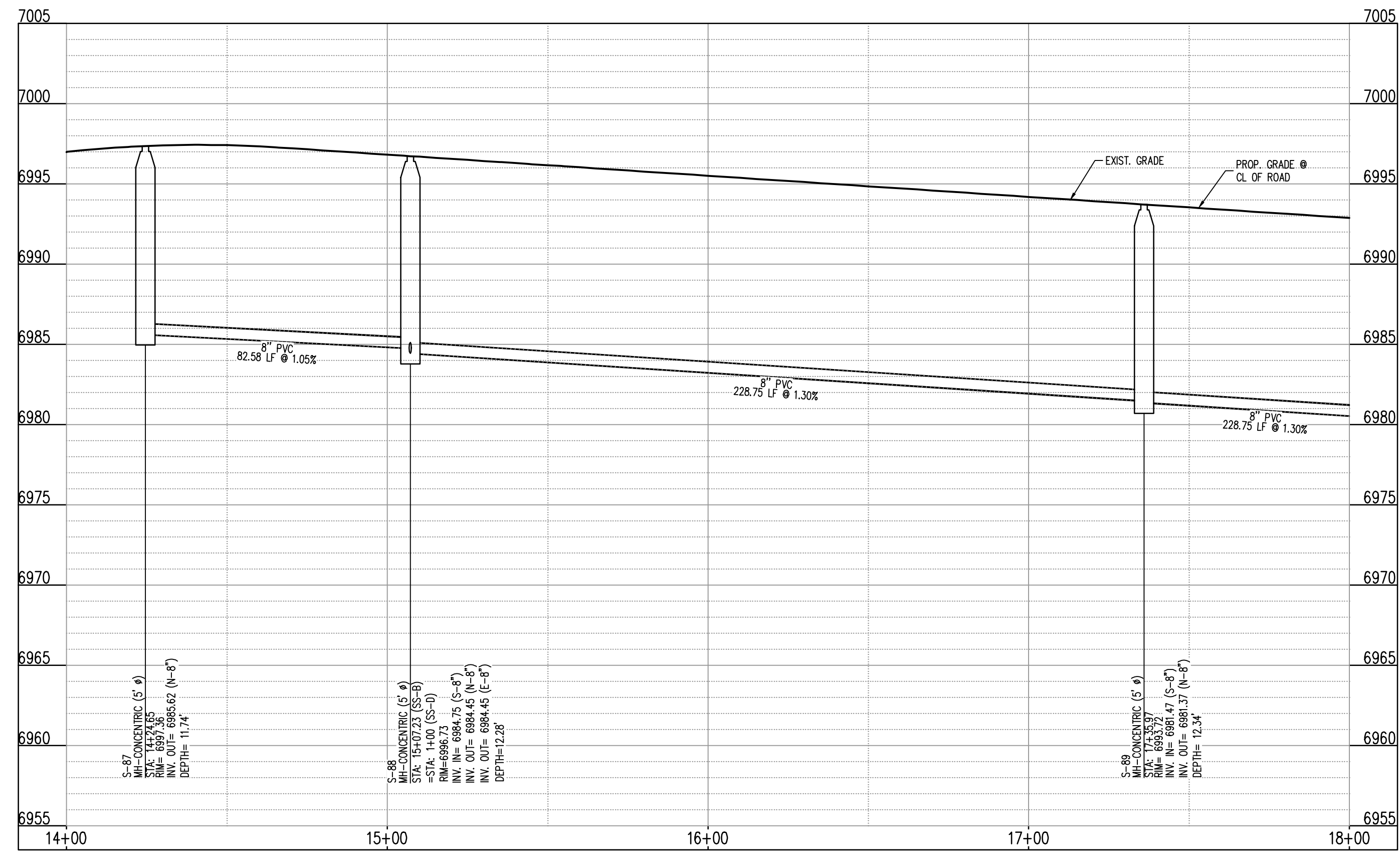
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Drawn By:	JDM
Checked By:	RGD
Date:	10/14/2022

**WASTEWATER P&P**

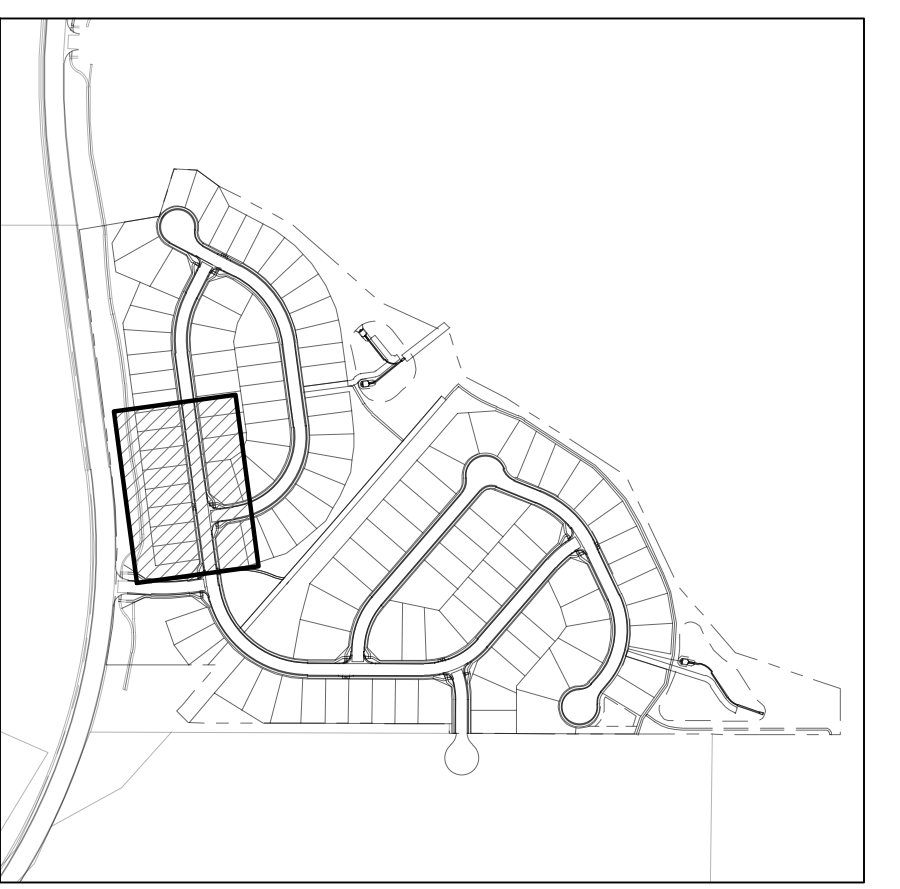
**U2.6**  
 Sheet 13 of 22



**SANITARY SEWER LINE PLAN: SS-B (STA: 14+00 - 18+00)**  
 SCALE: 1"=30'



**SANITARY SEWER LINE PROFILE: SS-B (STA: 14+00 - 18+00)**  
 SCALES: HORIZONTAL 1"=30', VERTICAL 1"=6'



**KEYMAP**  
 SCALE: 1"=500'

**UTILITY LEGEND**

- W- EXISTING WATER LINE
- W- PROPOSED WATER LINE
- SS- EXISTING SANITARY SEWER
- SS- PROPOSED SANITARY SEWER
- SS- PROPOSED STORM SEWER
- SS- PROPOSED STORM SEWER
- G- EXISTING GAS LINE
- G- PROPOSED GAS LINE
- ⊙ EXISTING STREET LIGHT
- ⊙ PROPOSED STREET LIGHT
- ⊙ PROPOSED WATER METER
- ⊙ EXISTING WATER VALVE
- ⊙ PROPOSED WATER VALVE
- ⊙ EXISTING FIRE HYDRANT
- ⊙ PROPOSED FIRE HYDRANT
- ⊙ EXISTING STORM SEWER MANHOLE
- ⊙ PROPOSED STORM SEWER MANHOLE
- ⊙ EXISTING SANITARY SEWER MANHOLE
- ⊙ PROPOSED SANITARY SEWER MANHOLE

**SITE LEGEND**

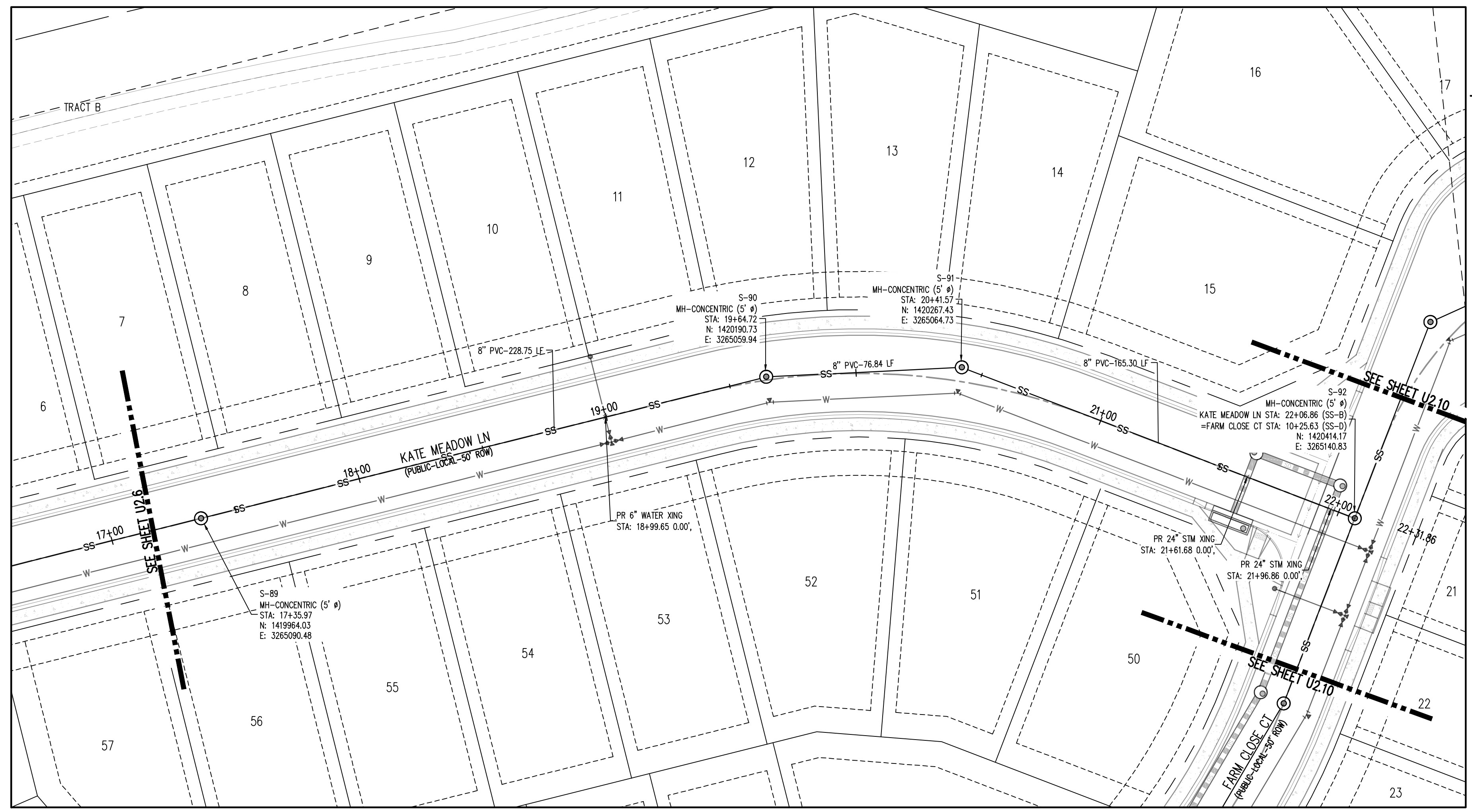
- PROPERTY BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY LINE
- RIGHT OF WAY BOUNDARY LINE
- SECTION LINE
- EXISTING ADJACENT LOT LINE
- PROPOSED LOT LINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- ROAD CENTERLINE
- PROPOSED RIDGE LINE
- PROPOSED SWALE LINE
- EXISTING SWALE LINE
- FLOODPLAIN BOUNDARY
- EXISTING FLOOD ZONE
- EXISTING FLOOD ZONE SETBACK
- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- PROPOSED SIDEWALK
- PROPOSED TRAIL
- PROPOSED GRAVEL PER EGM TABLE D-7
- RIPRAP OUTFALL PADS
- EXISTING SIGN
- PROPOSED SIGN

**NOTES**

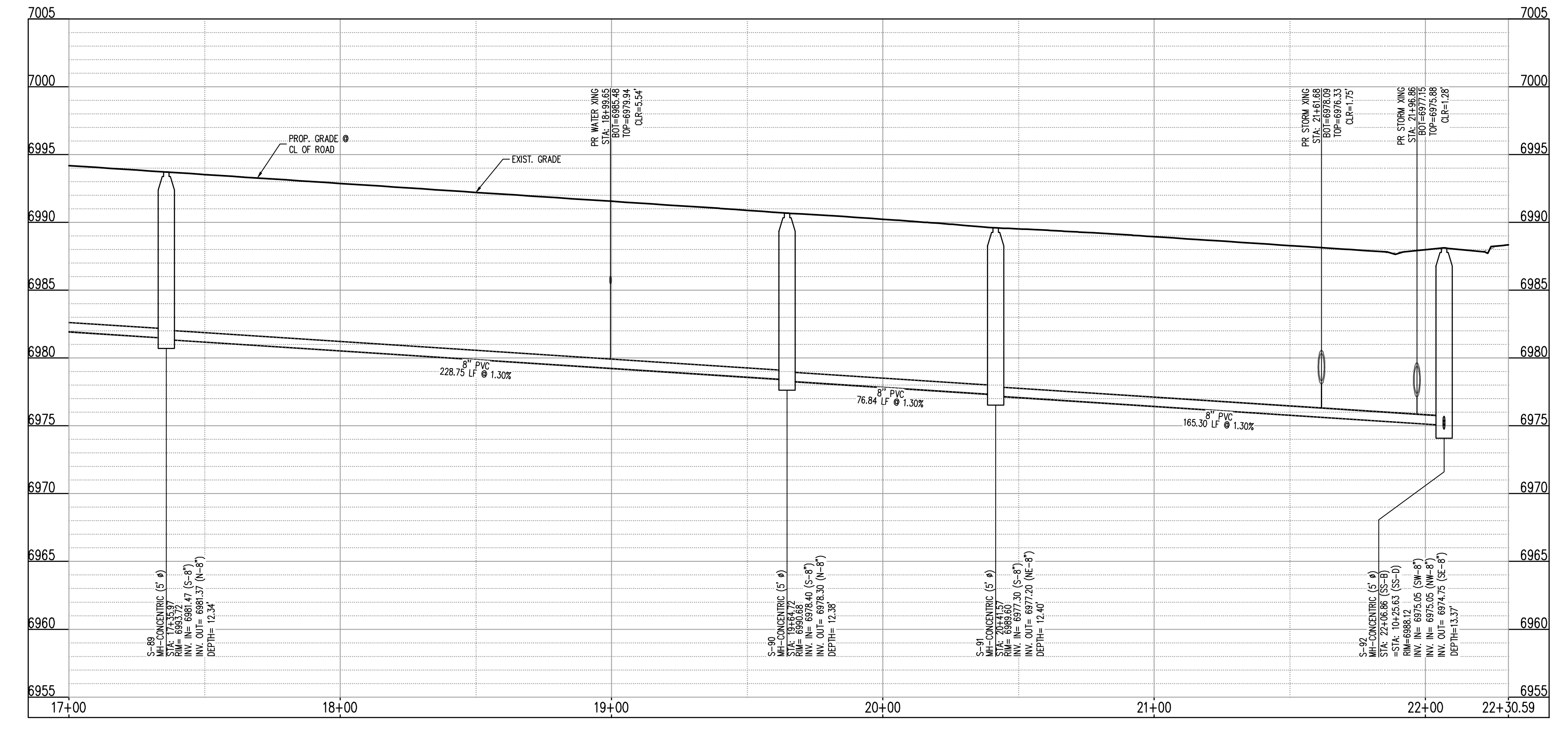
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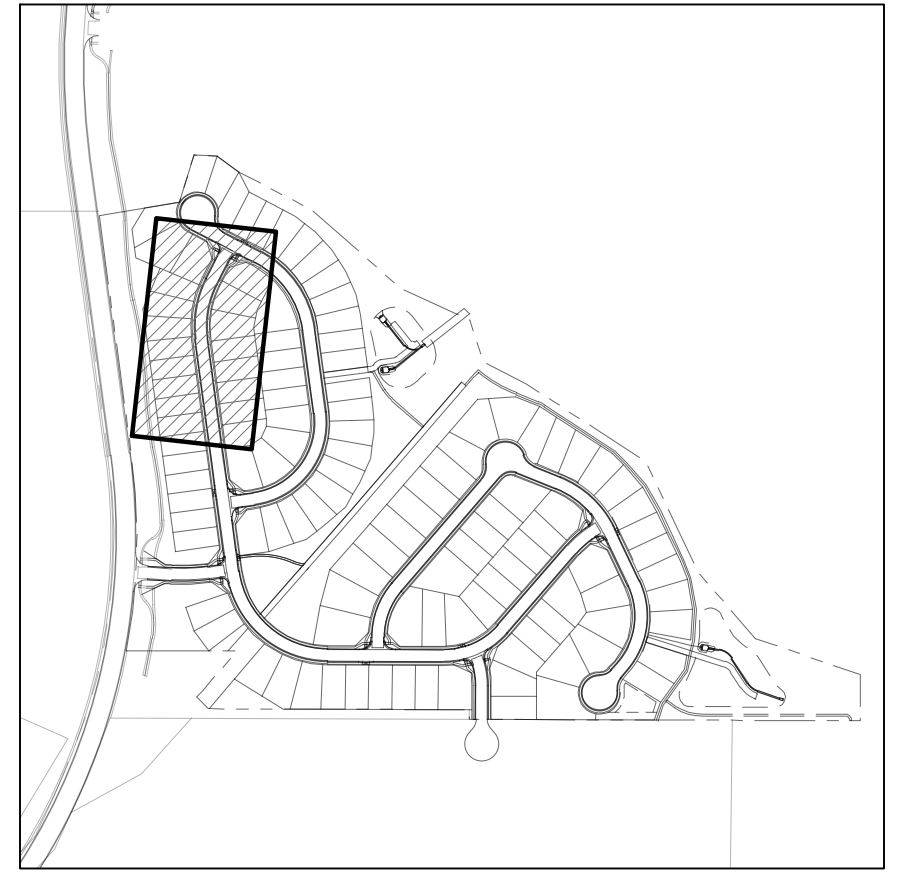
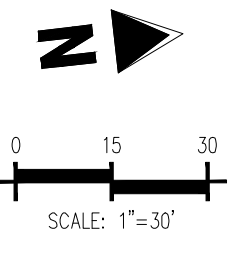
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SANITARY SEWER LINE PLAN: SS-B (STA: 17+00 - 22+30.59)  
SCALE: 1"=30'



SANITARY SEWER LINE PROFILE: SS-B (STA: 17+00 - 22+30.59)  
SCALE: HORIZONTAL 1"=30', VERTICAL 1"=6'



KEYMAP  
SCALE: 1"=500'

UTILITY LEGEND

- W- EXISTING WATER LINE
- W- PROPOSED WATER LINE
- SS- EXISTING SANITARY SEWER
- SS- PROPOSED SANITARY SEWER
- SS- EXISTING STORM SEWER
- SS- PROPOSED STORM SEWER
- G- EXISTING GAS LINE
- G- PROPOSED GAS LINE
- ⊙ EXISTING STREET LIGHT
- ⊙ PROPOSED STREET LIGHT
- ⊙ EXISTING WATER METER
- ⊙ PROPOSED WATER METER
- ⊙ EXISTING WATER VALVE
- ⊙ PROPOSED WATER VALVE
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- ⊙ PROPOSED STORM SEWER MANHOLE
- ⊙ EXISTING SANITARY SEWER MANHOLE
- ⊙ PROPOSED SANITARY SEWER MANHOLE

SITE LEGEND

- - - - - PROPERTY BOUNDARY LINE
- - - - - ADJACENT PROPERTY BOUNDARY LINE
- - - - - RIGHT OF WAY BOUNDARY LINE
- - - - - SECTION LINE
- - - - - EXISTING ADJACENT LOT LINE
- - - - - PROPOSED LOT LINE
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- - - - - ROAD CENTERLINE
- - - - - PROPOSED RIDGE LINE
- - - - - PROPOSED SWALE LINE
- - - - - EXISTING SWALE LINE
- - - - - FLOODPLAIN BOUNDARY
- - - - - EXISTING FLOOD ZONE
- - - - - EXISTING FLOOD ZONE SETBACK
- - - - - PROPOSED CURB AND GUTTER
- - - - - EXISTING CURB AND GUTTER
- - - - - PROPOSED SIDEWALK
- - - - - PROPOSED TRAIL
- - - - - PROPOSED GRAVEL PER EDM TABLE D-7
- - - - - RIPRAP OUTFALL PADS
- ⊙ EXISTING SIGN
- ⊙ PROPOSED SIGN

NOTES

- ALL PROPOSED MANHOLES SHALL CONFORM TO WOODMEN HILLS METRO DISTRICT DETAIL WW-2

CAUTION - NOTICE TO CONTRACTOR

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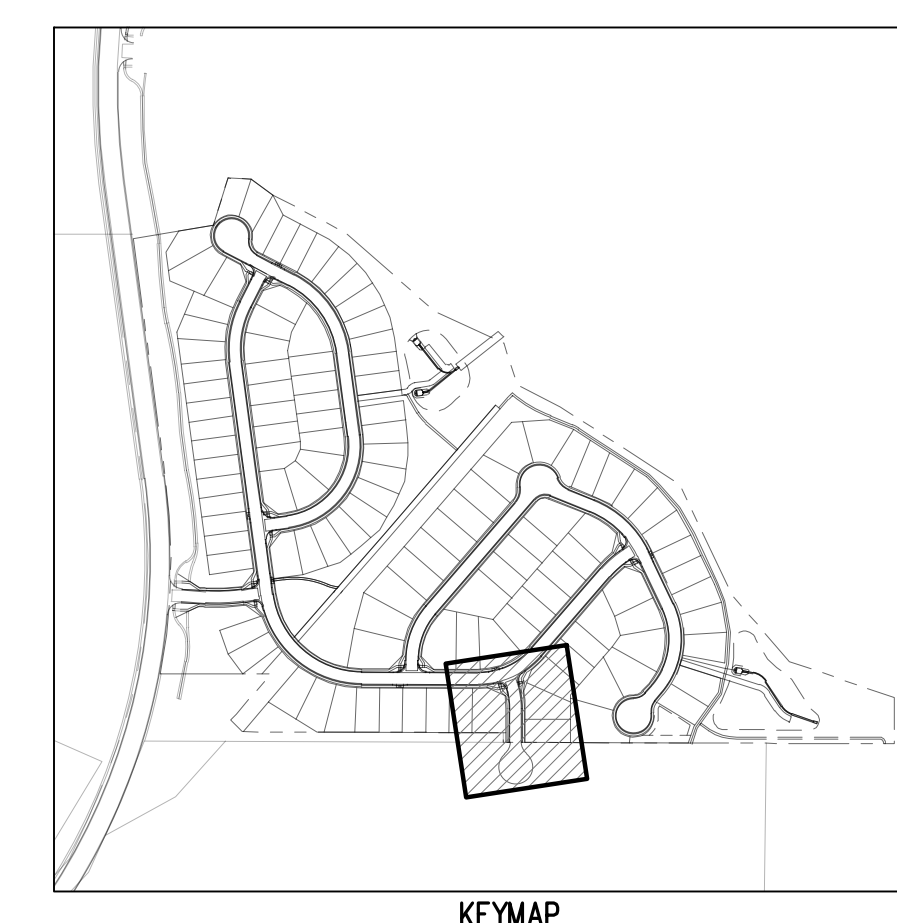
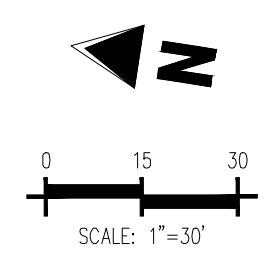
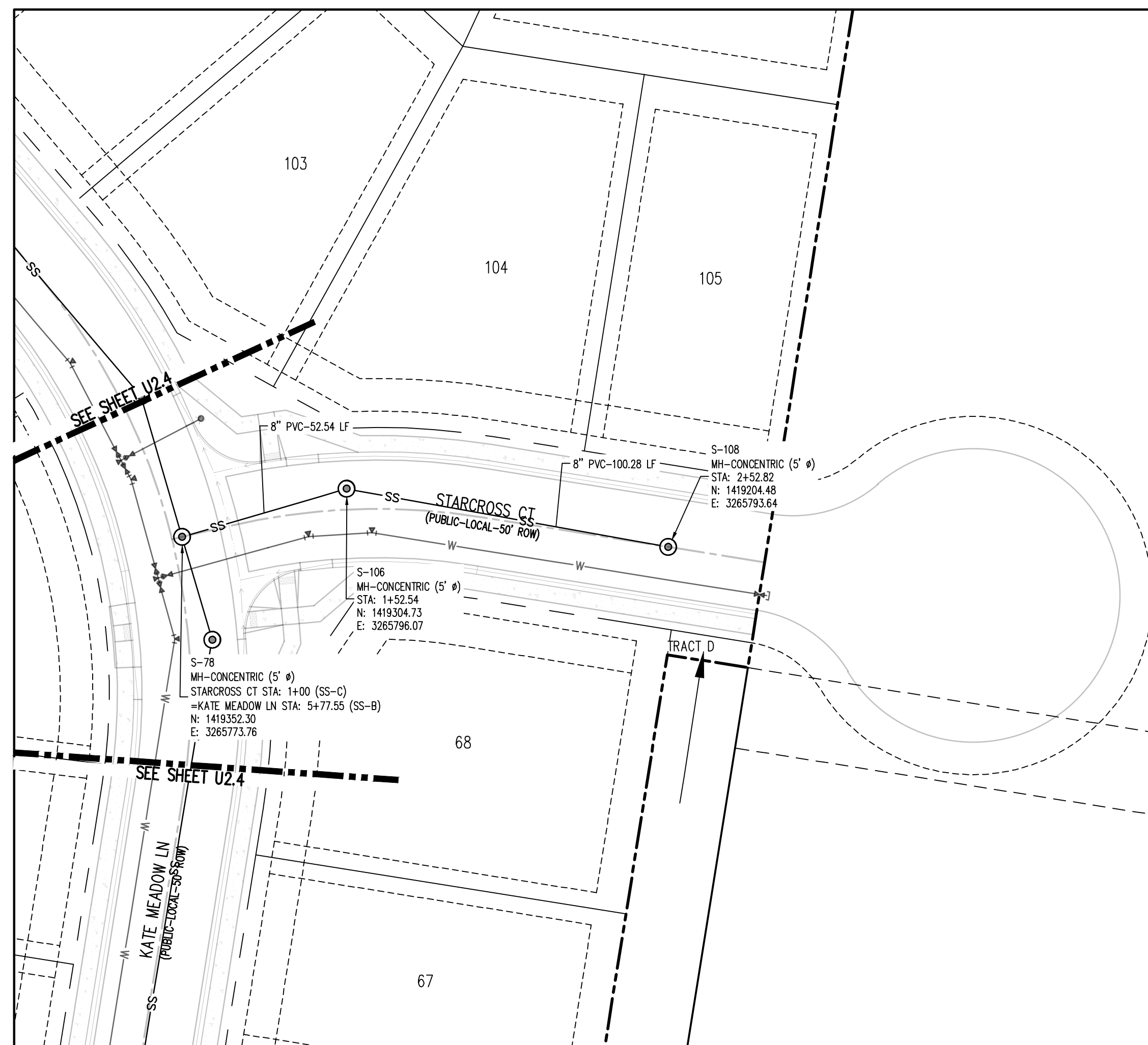
GRADING & EROSION CONTROL PLANS  
GRANDVIEW RESERVE FILING NO. 1  
4 SITE INVESTMENTS, LLC (D.R. HORTON)  
SF-22-XXX

EASTONVILLE RD & REX RD  
EL PASO COUNTY, FALCON, CO 80831

#	Date	Issue / Description	Init.

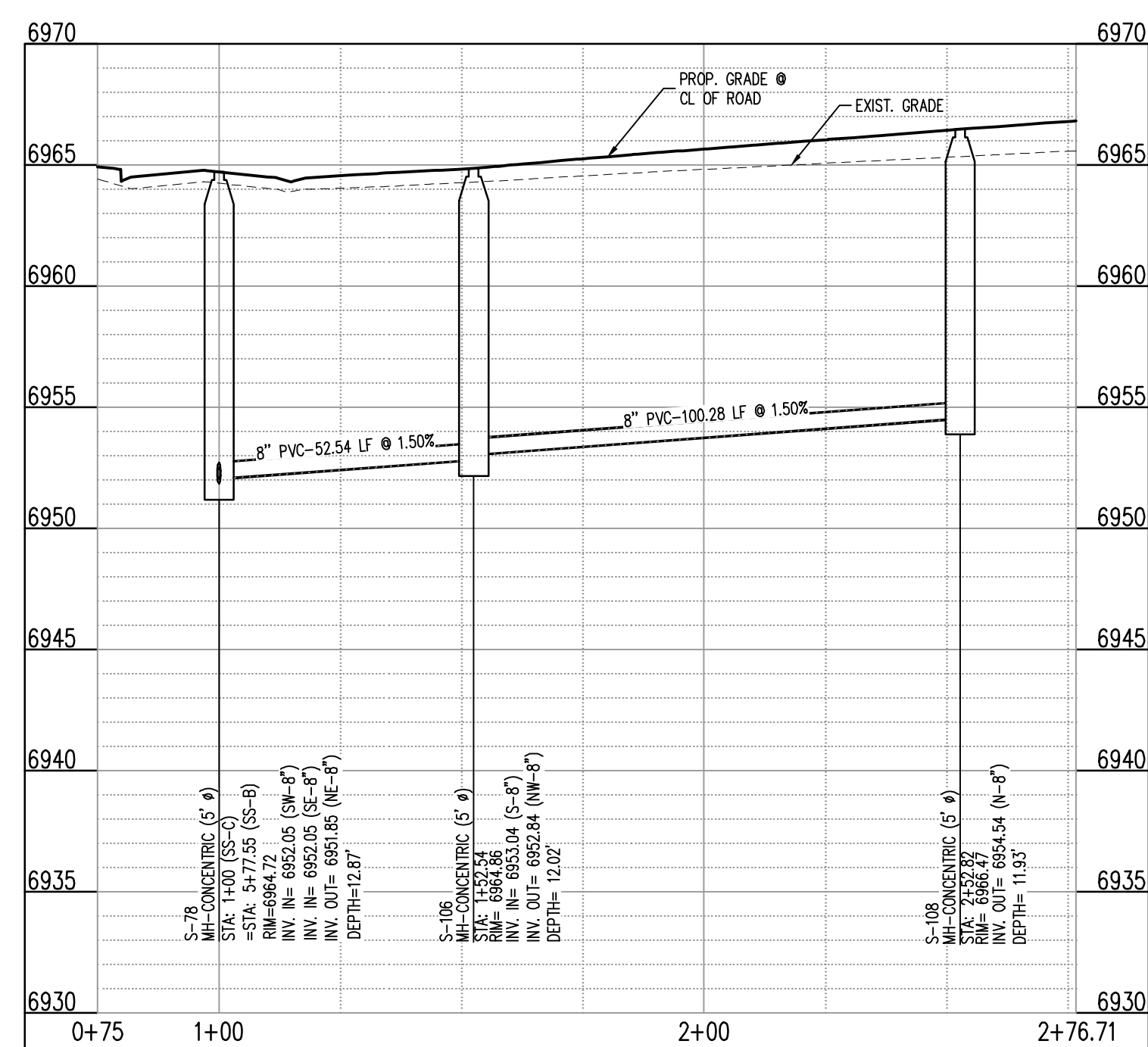
Project No: HRG02  
Drawn By: JDM  
Checked By: RGD  
Date: 10/14/2022

WASTEWATER P&P



SANITARY SEWER LINE PLAN: SS-C (STA: 0+75 - 2+26.71)

SCALE: 1"=30'



SANITARY SEWER LINE PROFILE: SS-C (STA: 0+75 - 2+26.71)

SCALE: HORIZONTAL 1"=30', VERTICAL 1"=6'

UTILITY LEGEND

- W — EXISTING WATER LINE
- W — PROPOSED WATER LINE
- SS — EXISTING SANITARY SEWER
- SS — PROPOSED SANITARY SEWER
- S — EXISTING STORM SEWER
- S — PROPOSED STORM SEWER
- G — EXISTING GAS LINE
- G — PROPOSED GAS LINE
- ⊙ EXISTING STREET LIGHT
- ⊙ PROPOSED STREET LIGHT
- ⊙ PROPOSED WATER METER
- ⊙ EXISTING WATER VALVE
- ⊙ PROPOSED WATER VALVE
- ⊙ EXISTING FIRE HYDRANT
- ⊙ PROPOSED FIRE HYDRANT
- ⊙ EXISTING STORM SEWER MANHOLE
- ⊙ PROPOSED STORM SEWER MANHOLE
- ⊙ EXISTING SANITARY SEWER MANHOLE
- ⊙ PROPOSED SANITARY SEWER MANHOLE

SITE LEGEND

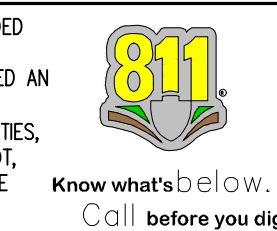
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- — — — — ADJACENT PROPERTY BOUNDARY LINE
- — — — — RIGHT OF WAY BOUNDARY LINE
- — — — — SECTION LINE
- — — — — EXISTING ADJACENT LOT LINE
- — — — — PROPOSED LOT LINE
- — — — — EXISTING EASEMENT LINE
- — — — — PROPOSED EASEMENT LINE
- — — — — ROAD CENTERLINE
- — — — — PROPOSED RIDGE LINE
- — — — — PROPOSED SWALE LINE
- — — — — EXISTING SWALE LINE
- — — — — FLOODPLAIN BOUNDARY
- — — — — EXISTING FLOOD ZONE
- — — — — EXISTING FLOOD ZONE SETBACK
- — — — — PROPOSED CURB AND GUTTER
- — — — — EXISTING CURB AND GUTTER
- — — — — PROPOSED SIDEWALK
- — — — — PROPOSED TRAIL
- — — — — PROPOSED GRAVEL PER EDM TABLE D-7
- — — — — RIPRAP OUTFALL PADS
- — — — — EXISTING SIGN
- — — — — PROPOSED SIGN

NOTES

1. ALL PROPOSED MANHOLES SHALL CONFORM TO WOODMEN HILLS METRO DISTRICT DETAIL WW-2

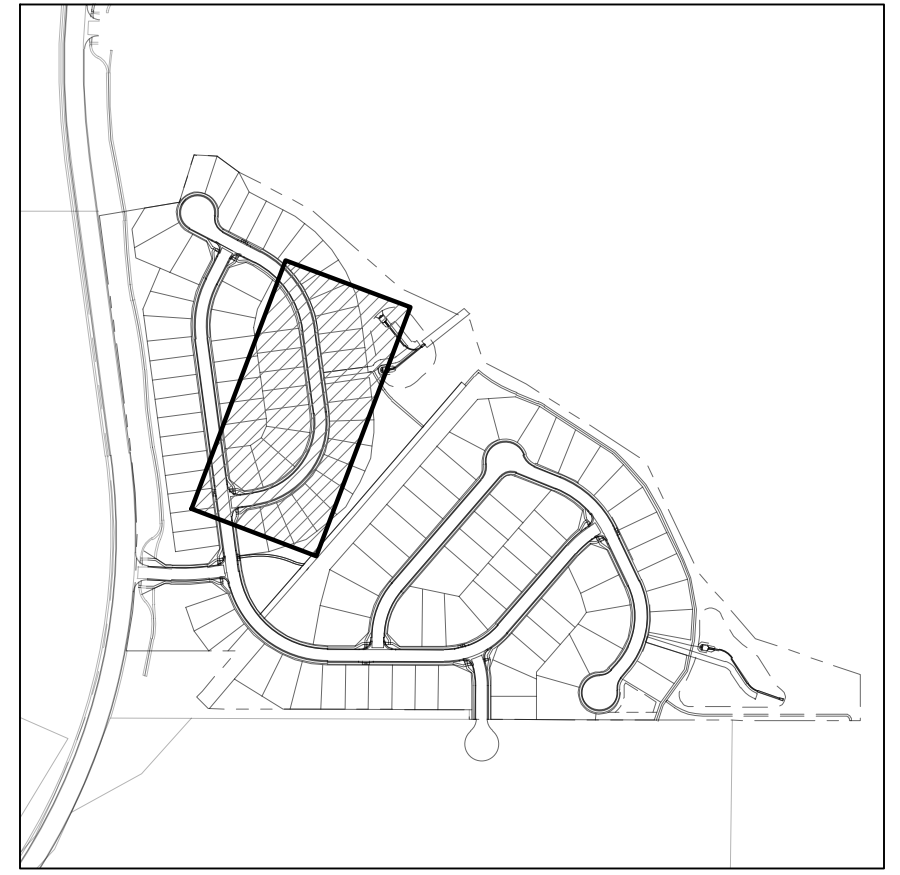
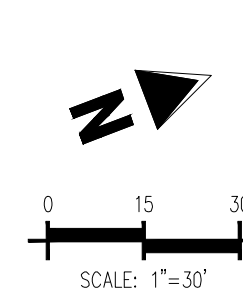
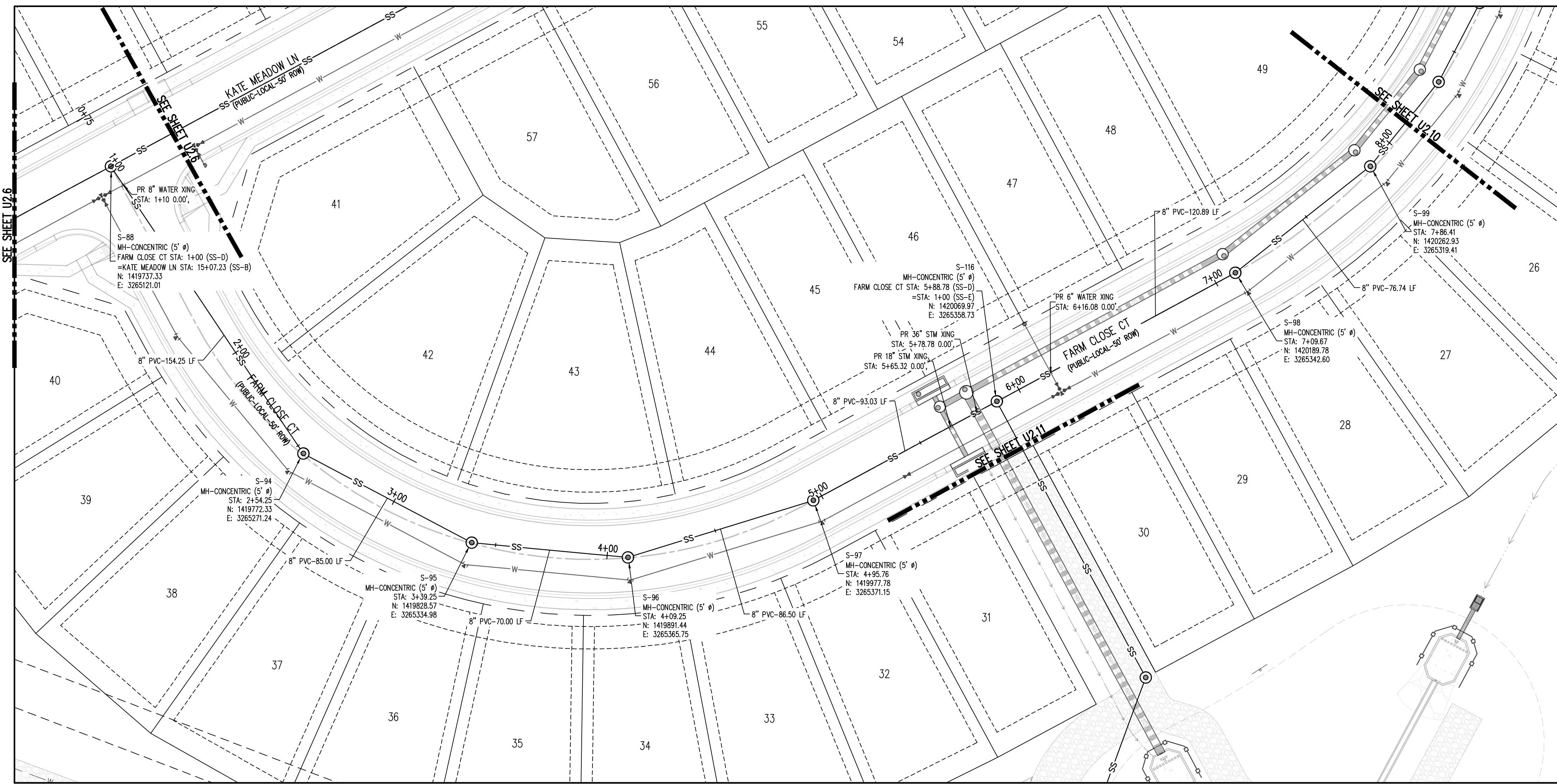
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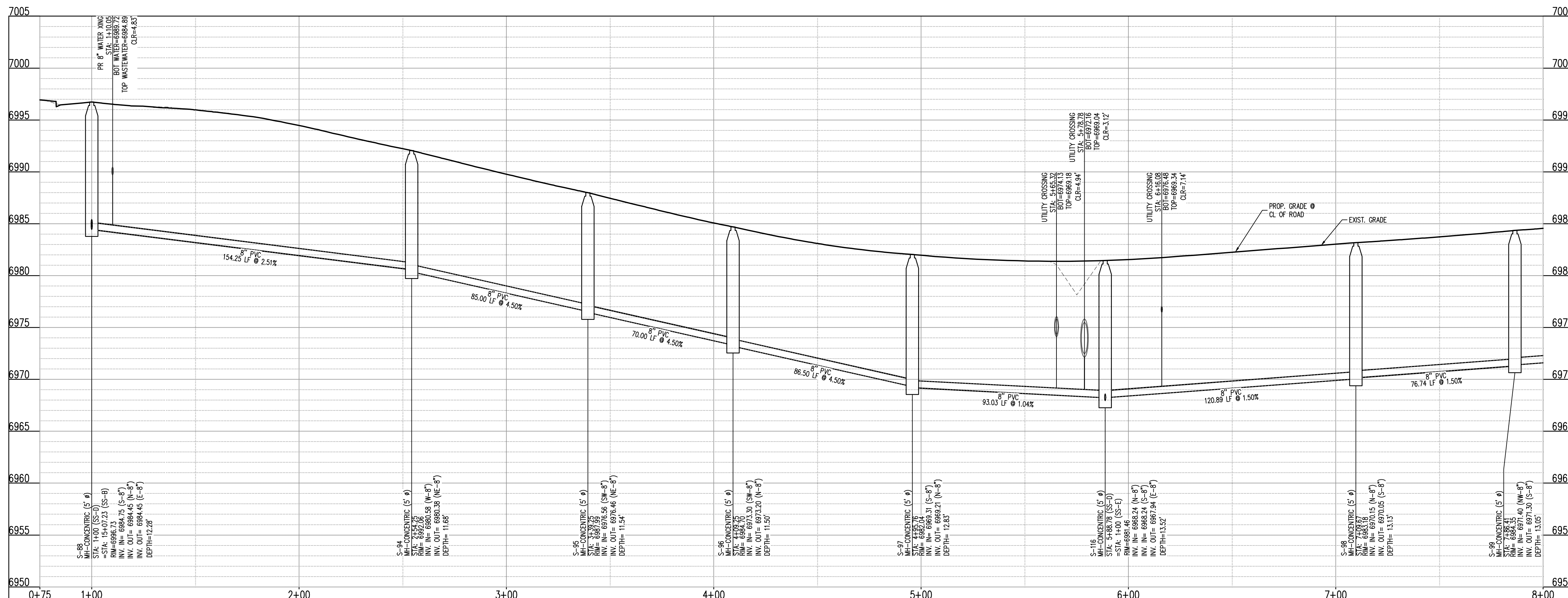
#	Date	Issue / Description	Init.

Project No:	HRG02
Drawn By:	JDM
Checked By:	RGD
Date:	10/14/2022



- UTILITY LEGEND**
- EXISTING WATER LINE
  - W- PROPOSED WATER LINE
  - SS- EXISTING SANITARY SEWER
  - SS- PROPOSED SANITARY SEWER
  - SSS- EXISTING STORM SEWER
  - SSS- PROPOSED STORM SEWER
  - G- EXISTING GAS LINE
  - G- PROPOSED GAS LINE
  - EXISTING STREET LIGHT
  - PROPOSED STREET LIGHT
  - PROPOSED WATER METER
  - EXISTING WATER VALVE
  - PROPOSED WATER VALVE
  - EXISTING FIRE HYDRANT
  - PROPOSED FIRE HYDRANT
  - EXISTING STORM SEWER MANHOLE
  - PROPOSED STORM SEWER MANHOLE
  - EXISTING SANITARY SEWER MANHOLE
  - PROPOSED SANITARY SEWER MANHOLE

SANITARY SEWER LINE PLAN: SS-D (STA: 0+75 - 8+00)  
SCALE: 1"=30'



SANITARY SEWER LINE PROFILE: SS-D (STA: 0+75 - 8+00)  
SCALES: HORIZONTAL 1"=30', VERTICAL 1"=6'

- SITE LEGEND**
- PROPERTY BOUNDARY LINE
  - ADJACENT PROPERTY BOUNDARY LINE
  - RIGHT OF WAY BOUNDARY LINE
  - SECTION LINE
  - EXISTING ADJACENT LOT LINE
  - PROPOSED LOT LINE
  - EXISTING EASEMENT LINE
  - PROPOSED EASEMENT LINE
  - ROAD CENTERLINE
  - PROPOSED RIDGE LINE
  - PROPOSED SWALE LINE
  - EXISTING SWALE LINE
  - - - FLOODPLAIN BOUNDARY
  - - - EXISTING FLOOD ZONE
  - - - EXISTING FLOOD ZONE SETBACK
  - - - PROPOSED CURB AND GUTTER
  - - - EXISTING CURB AND GUTTER
  - - - PROPOSED SIDEWALK
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- NOTES**
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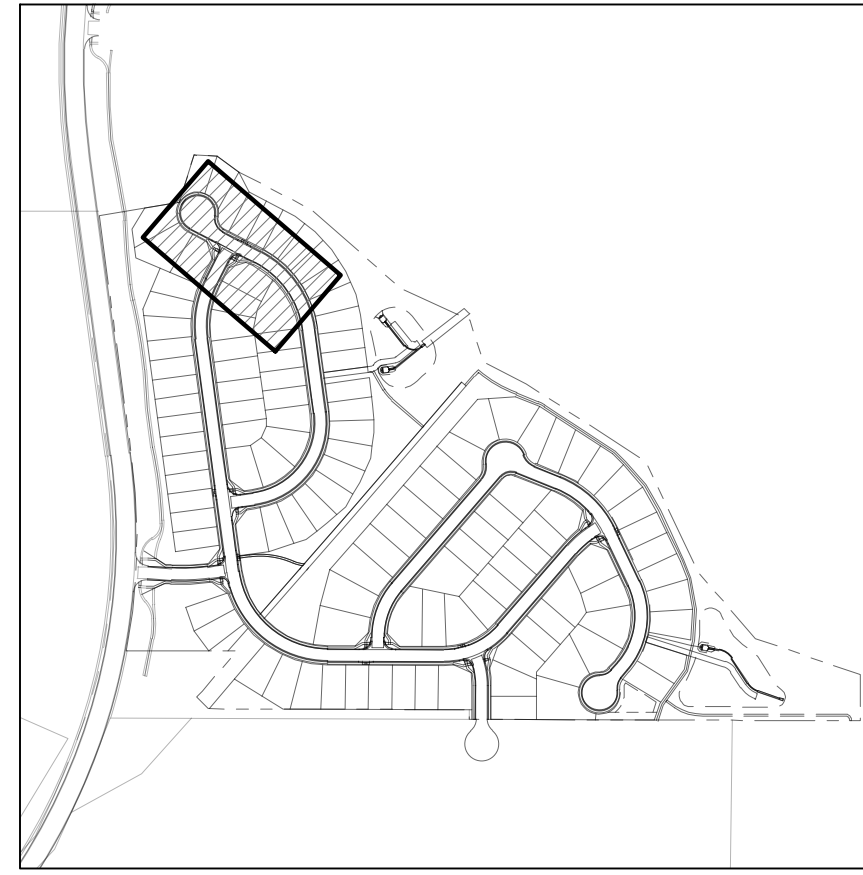
**GRADING & EROSION CONTROL PLANS**  
**GRANDVIEW RESERVE FILING NO. 1**  
**4 SITE INVESTMENTS, LLC (D.R. HORTON)**  
**SF-22-XXX**

**EASTONVILLE RD & REX RD**  
**EL PASO COUNTY, FALCON, CO 80831**

#	Date	Issue / Description	Init.

Project No: HRG02  
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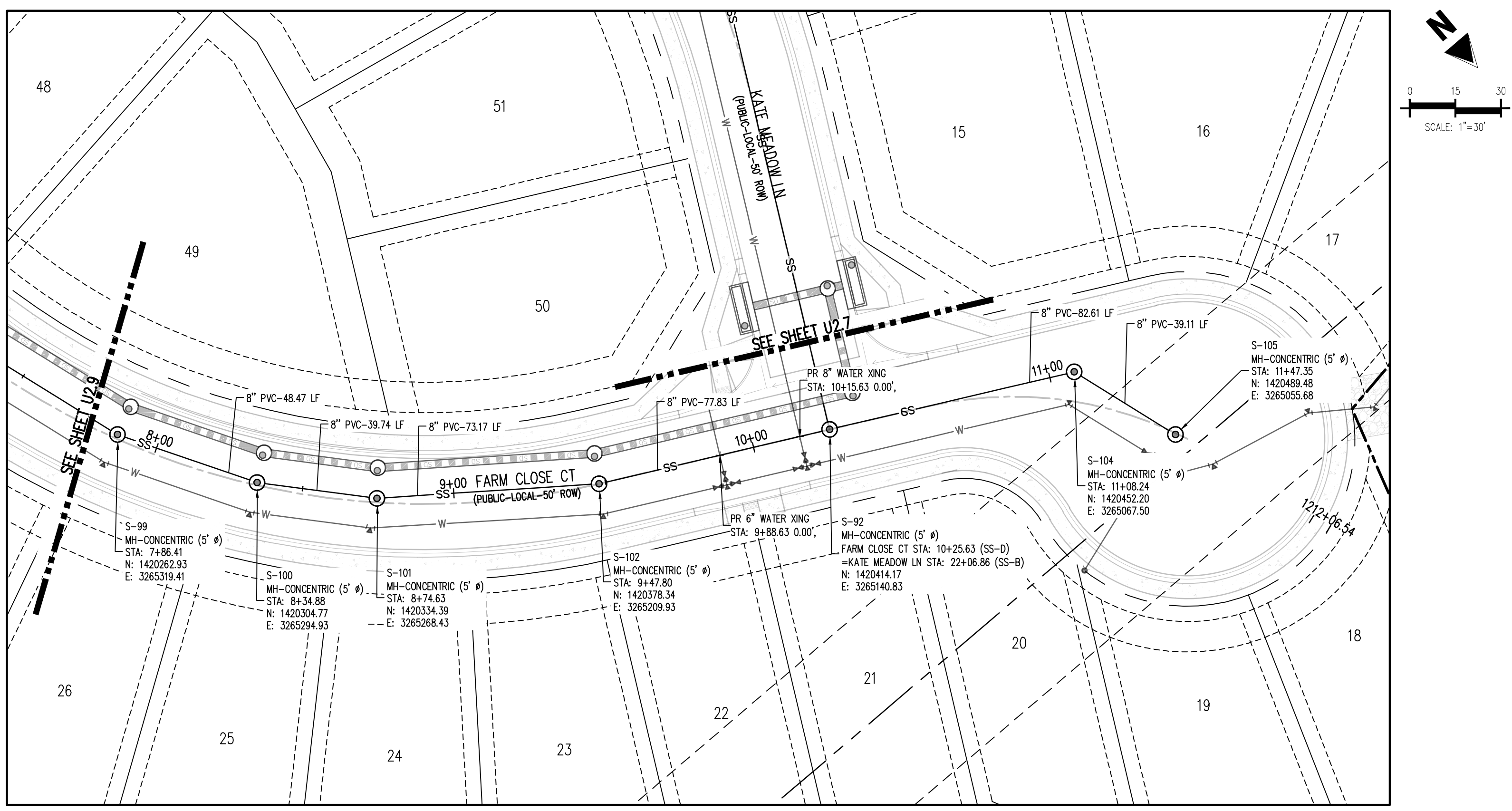
WASTEWATER P&P



KEYMAP  
SCALE: 1\"/>

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**D.R. HORTON**  
*America's Builder*



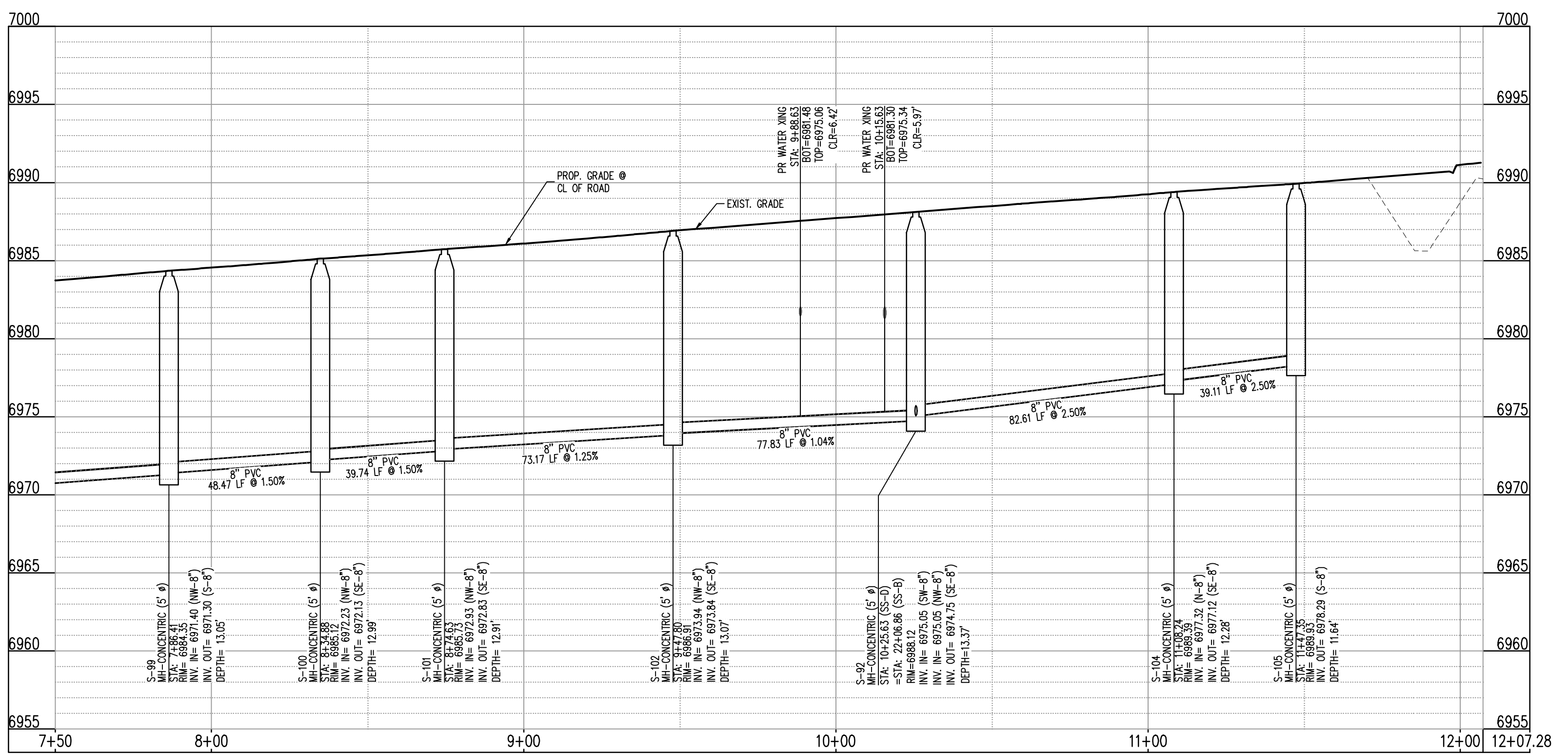
SANITARY SEWER LINE PLAN: SS-D (STA: 7+50 - 12+07.28)  
SCALE: 1\"/>

**UTILITY LEGEND**

—W—	EXISTING WATER LINE
-W-	PROPOSED WATER LINE
---SS---	EXISTING SANITARY SEWER
-SS-	PROPOSED SANITARY SEWER
---	EXISTING STORM SEWER
- - -	PROPOSED STORM SEWER
---	EXISTING GAS LINE
-G-	PROPOSED GAS LINE
☉	EXISTING STREET LIGHT
☼	PROPOSED STREET LIGHT
⊙	PROPOSED WATER METER
⊕	EXISTING WATER VALVE
⊖	PROPOSED WATER VALVE
⊕	EXISTING FIRE HYDRANT
⊖	PROPOSED FIRE HYDRANT
☉	EXISTING STORM SEWER MANHOLE
⊙	PROPOSED STORM SEWER MANHOLE
☉	EXISTING SANITARY SEWER MANHOLE
⊙	PROPOSED SANITARY SEWER MANHOLE

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EL PASO COUNTY, FALCON, CO 80831



SANITARY SEWER LINE PLAN: SS-D (STA: 7+50 - 12+07.28)  
SCALES: HORIZONTAL 1\"/>

#	Date	Issue / Description	Init.

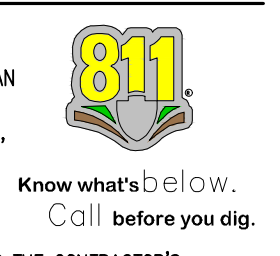
CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.

NOTE: CONTRACTOR MUST COORDINATE WORK WITH UTILITY COMPANY AND CITY PRIOR TO BEGINNING WORK AND IS RESPONSIBLE FOR ALL MATERIALS, LABOR, REPAIRS, ETC. TO COMPLETE WORK AND RESTORE AREA TO SAME STATE PRIOR TO STARTING WORK.

SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONING PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION WORK.

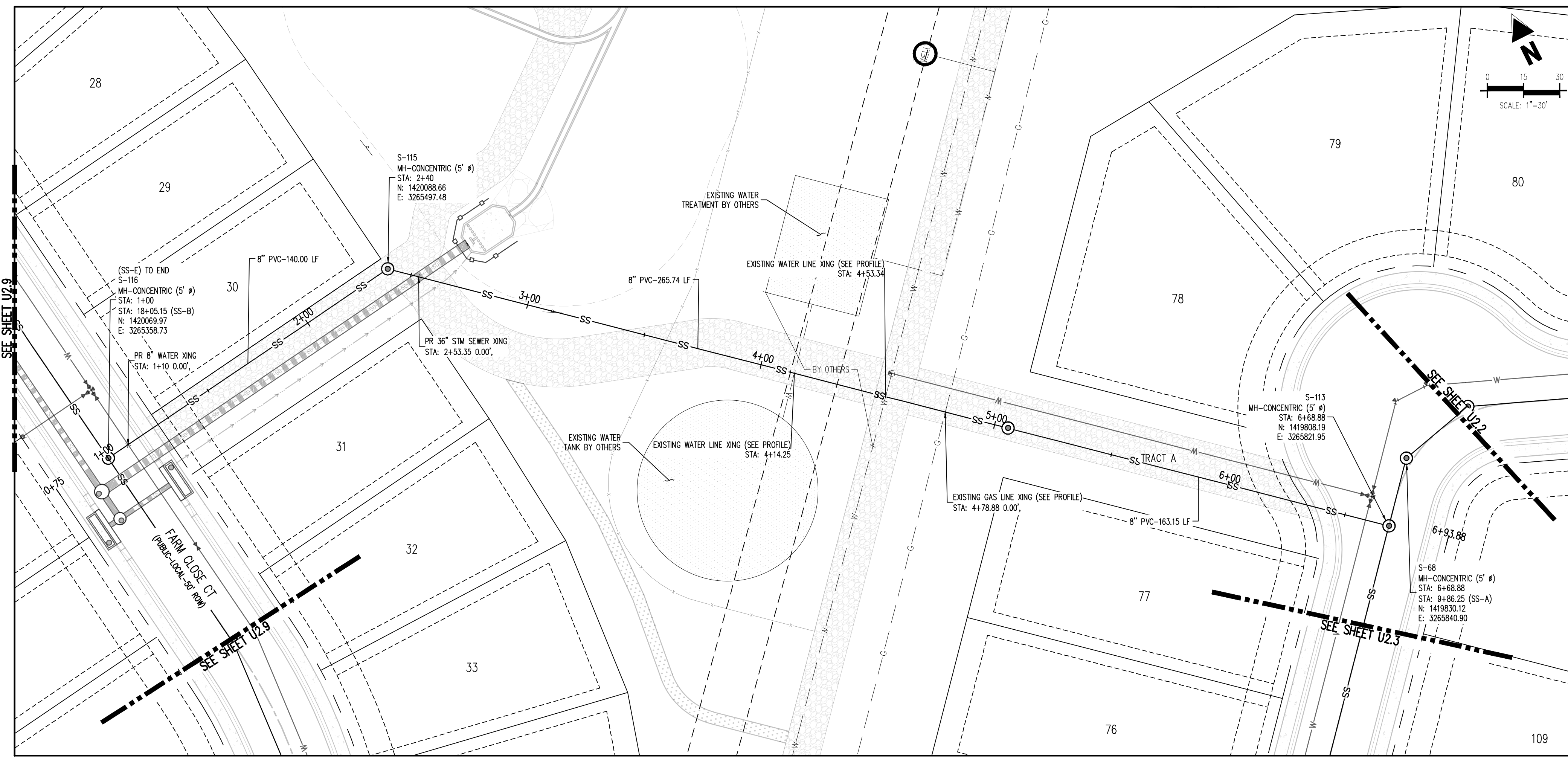
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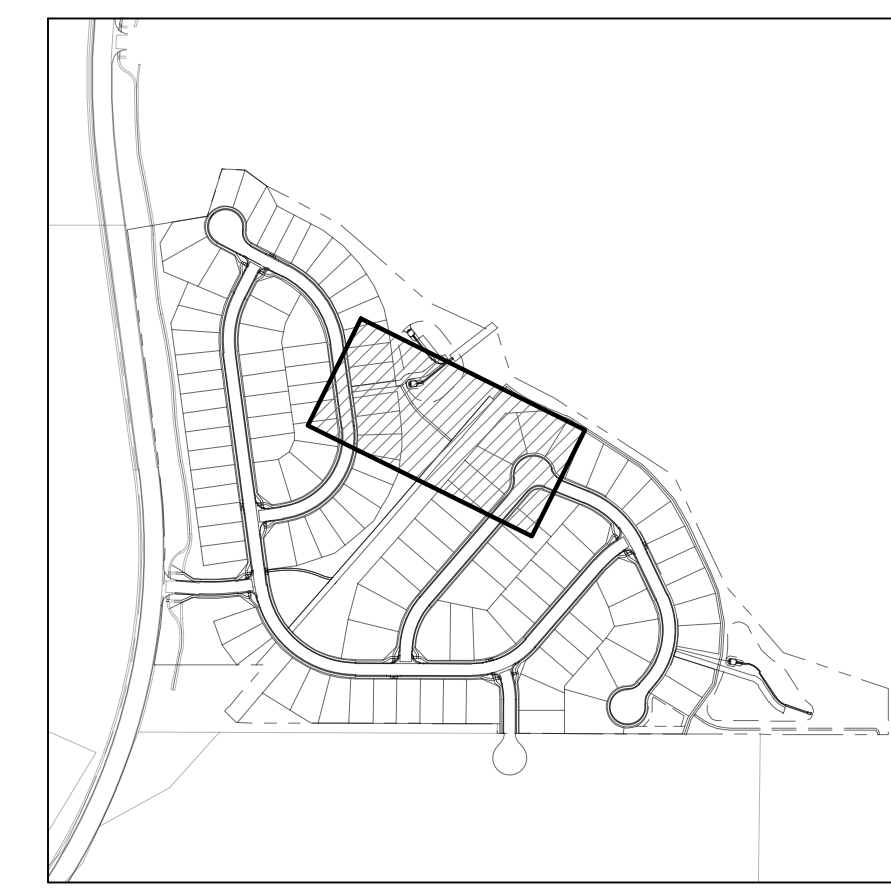


Project No: HRG02  
Drawn By: JDM  
Checked By: RGD  
Date: 10/14/2022

WASTEWATER P&P



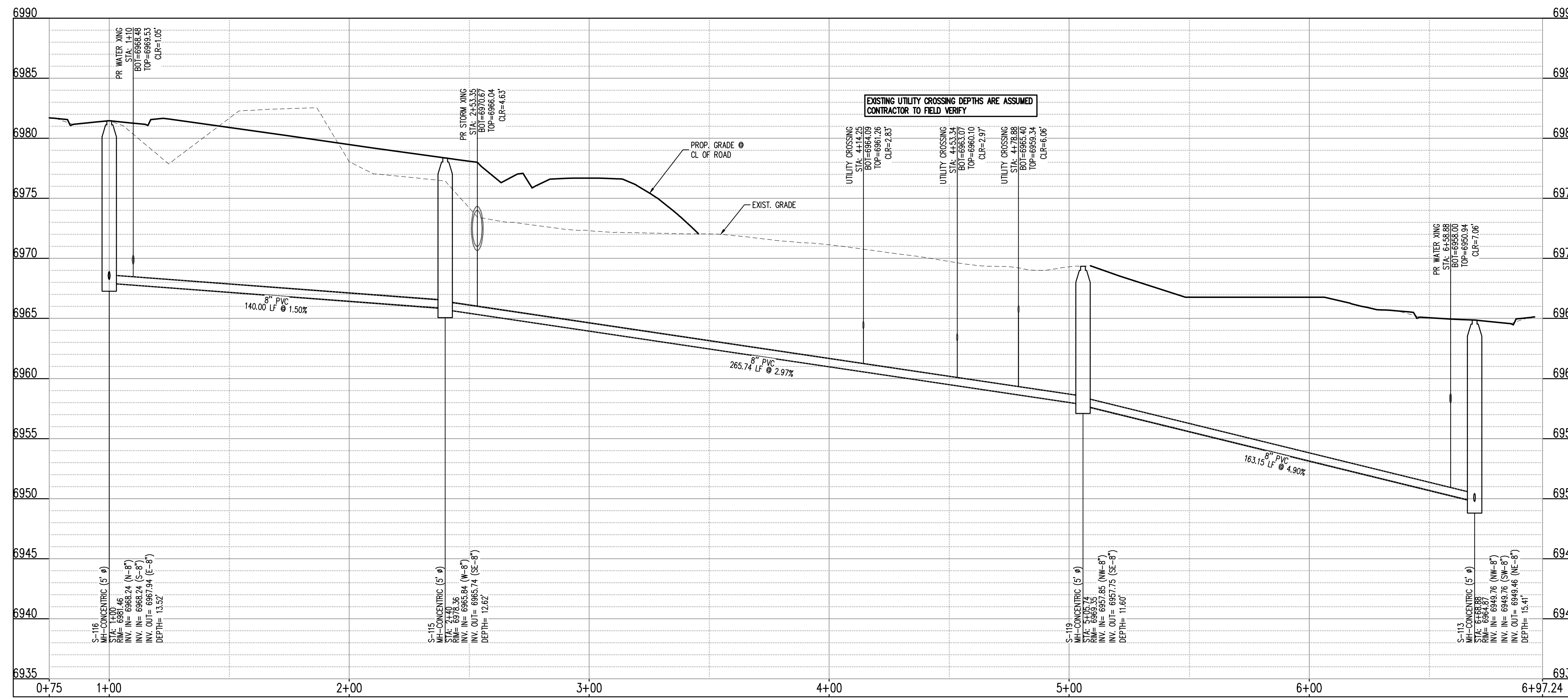
SANITARY SEWER LINE PLAN: SS-E (STA: 0+75 - 6+97.24)  
SCALE: 1"=30'



KEYMAP  
SCALE: 1"=500'

**UTILITY LEGEND**

- W- EXISTING WATER LINE
- W- PROPOSED WATER LINE
- SS- EXISTING SANITARY SEWER
- SS- PROPOSED SANITARY SEWER
- SS- EXISTING STORM SEWER
- SS- PROPOSED STORM SEWER
- G- EXISTING GAS LINE
- G- PROPOSED GAS LINE
- ⊙ EXISTING STREET LIGHT
- ⊙ PROPOSED STREET LIGHT
- ⊙ PROPOSED WATER METER
- ⊙ EXISTING WATER VALVE
- ⊙ PROPOSED WATER VALVE
- ⊙ EXISTING FIRE HYDRANT
- ⊙ PROPOSED FIRE HYDRANT
- ⊙ EXISTING STORM SEWER MANHOLE
- ⊙ PROPOSED STORM SEWER MANHOLE
- ⊙ EXISTING SANITARY SEWER MANHOLE
- ⊙ PROPOSED SANITARY SEWER MANHOLE



SANITARY SEWER LINE PROFILE: SS-E (STA: 0+75 - 6+97.24)  
SCALES: HORIZONTAL 1"=30', VERTICAL 1"=6'

**SITE LEGEND**

- - - PROPERTY BOUNDARY LINE
- - - ADJACENT PROPERTY BOUNDARY LINE
- - - RIGHT OF WAY BOUNDARY LINE
- - - SECTION LINE
- - - EXISTING ADJACENT LOT LINE
- - - PROPOSED LOT LINE
- - - EXISTING EASEMENT LINE
- - - PROPOSED EASEMENT LINE
- - - ROAD CENTERLINE
- - - PROPOSED RIDGE LINE
- - - PROPOSED SWALE LINE
- - - EXISTING SWALE LINE
- - - FLOODPLAIN BOUNDARY
- - - EXISTING FLOOD ZONE
- - - EXISTING FLOOD ZONE SETBACK
- - - PROPOSED CURB AND GUTTER
- - - EXISTING CURB AND GUTTER
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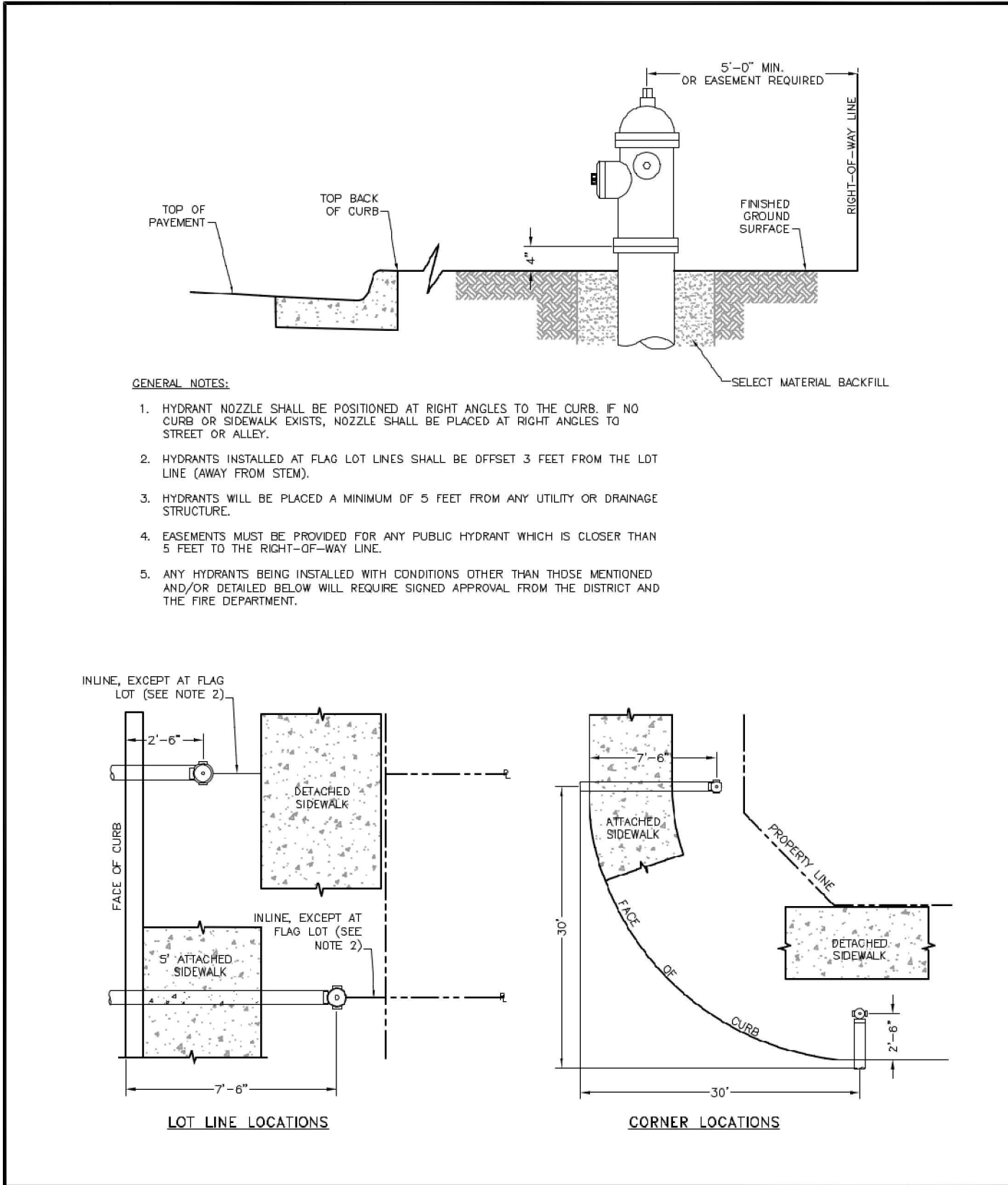
Project No:	HRG02
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Checked By:	RGD
Date:	10/14/2022

WASTEWATER P&P

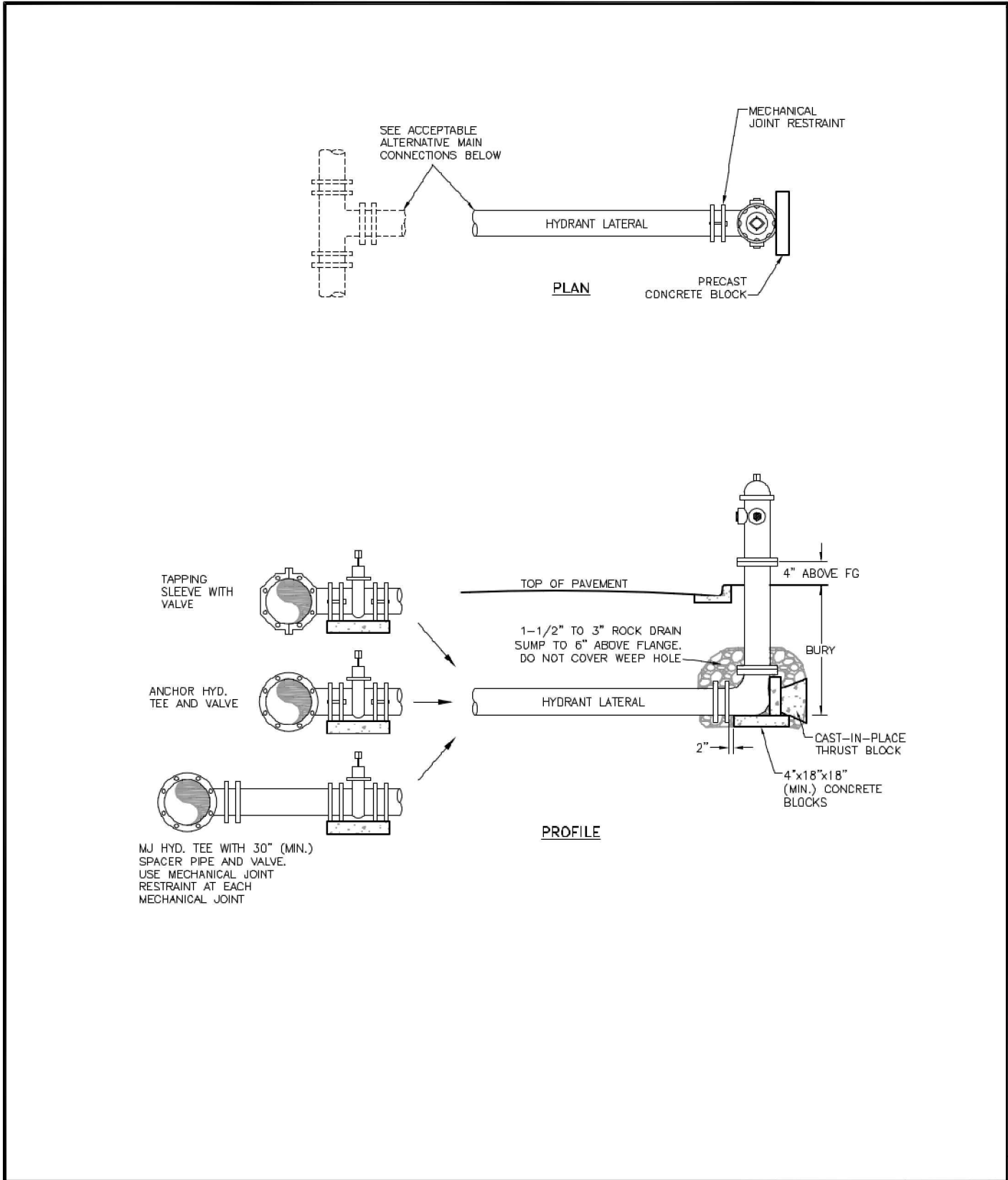
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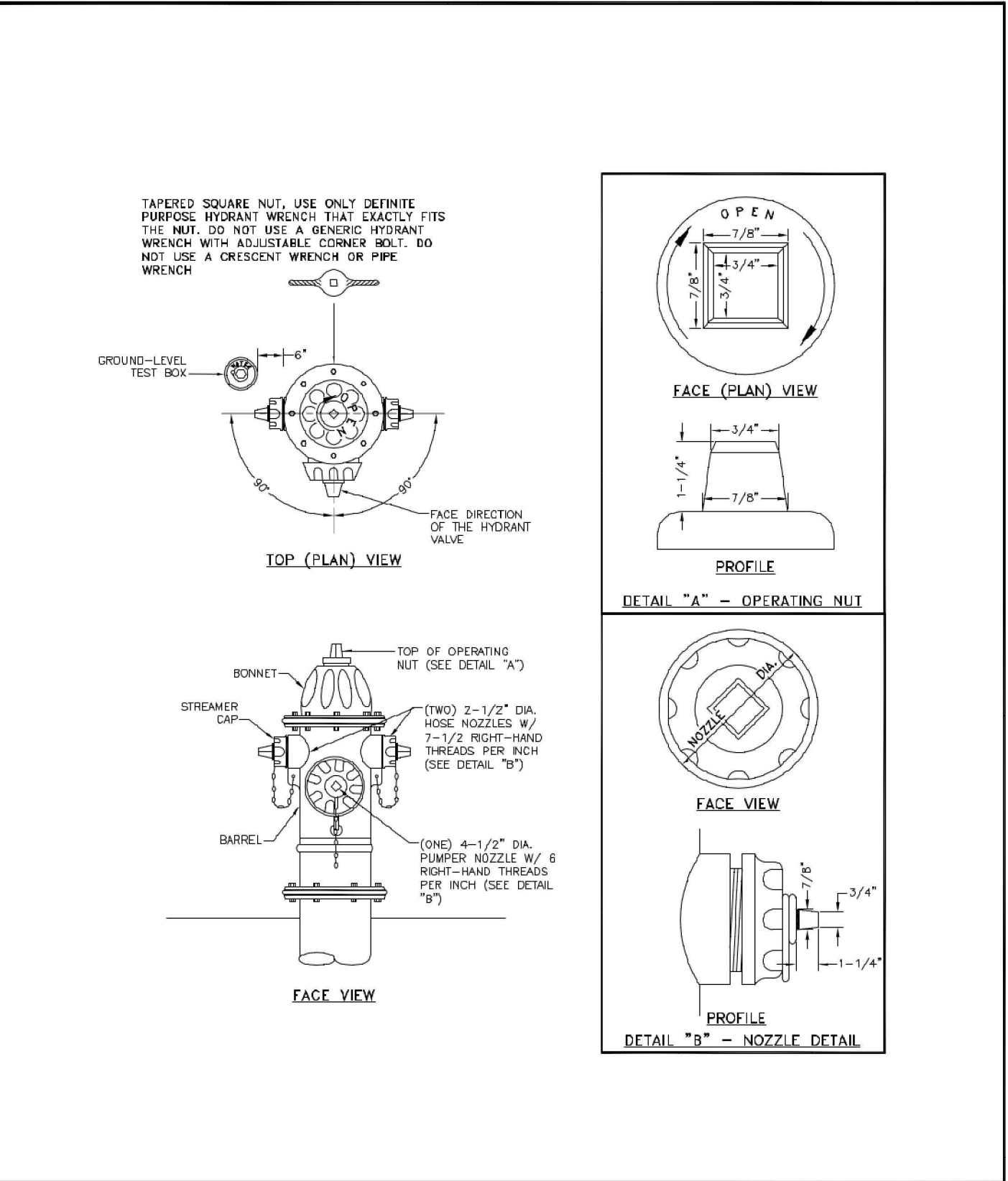
**WATER DETAILS**



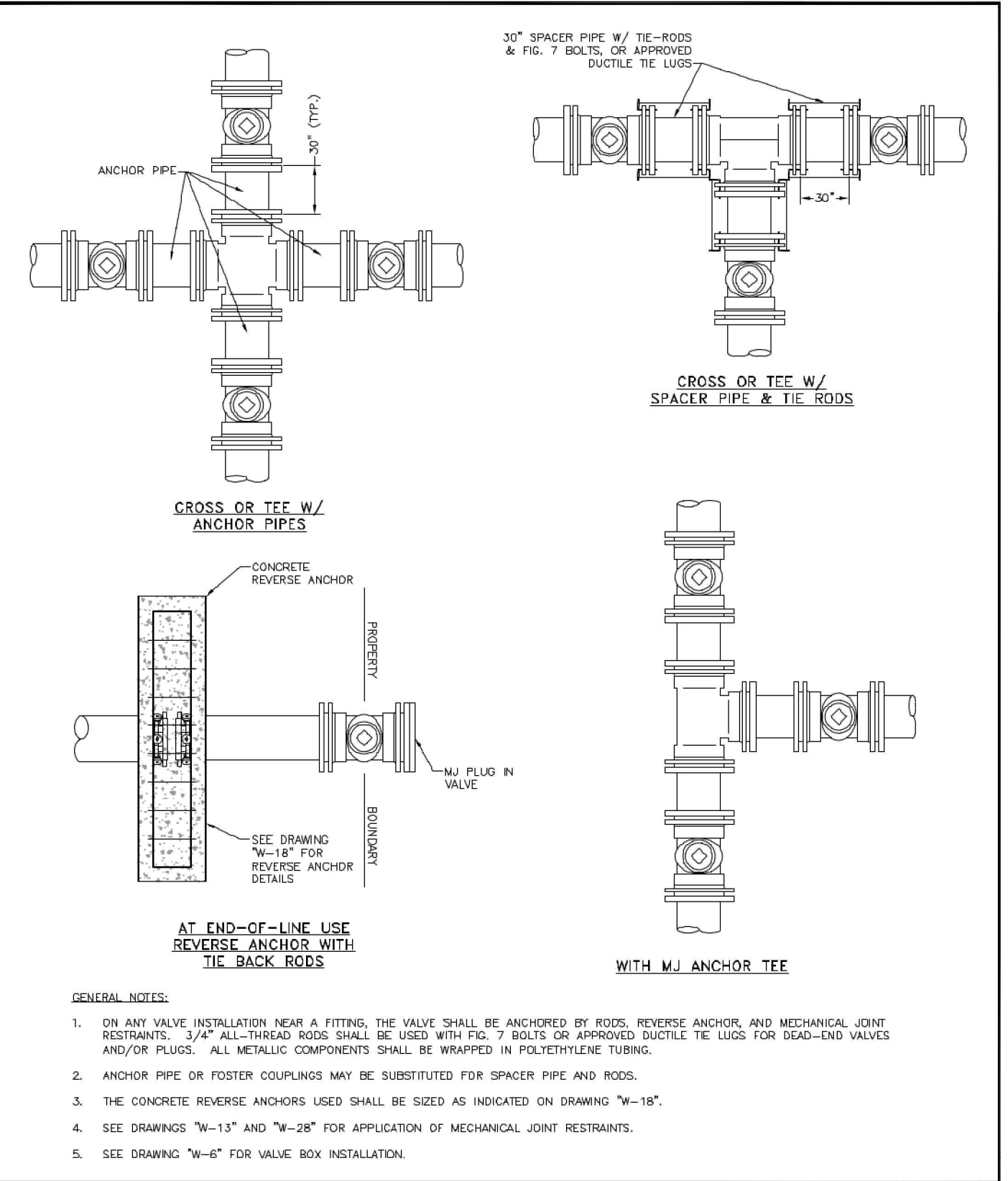
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 Drawn: JDM, Revised: DECEMBER 2021  
 Date: MARCH 2011, Revised: [blank]  
 Scale: N.P.S., Standard Specifications: W-1



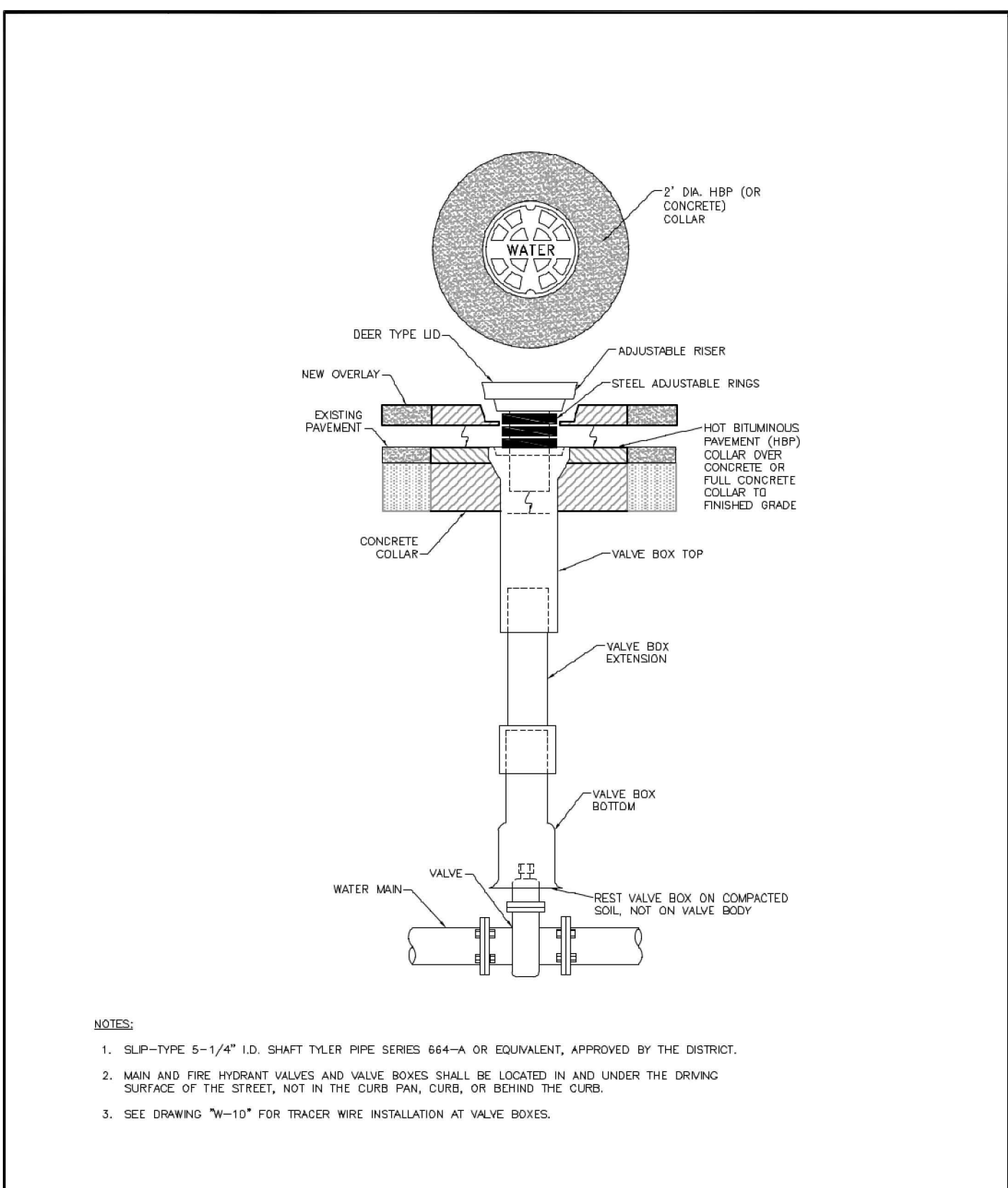
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 Scale: N.P.S., Standard Specifications: W-2



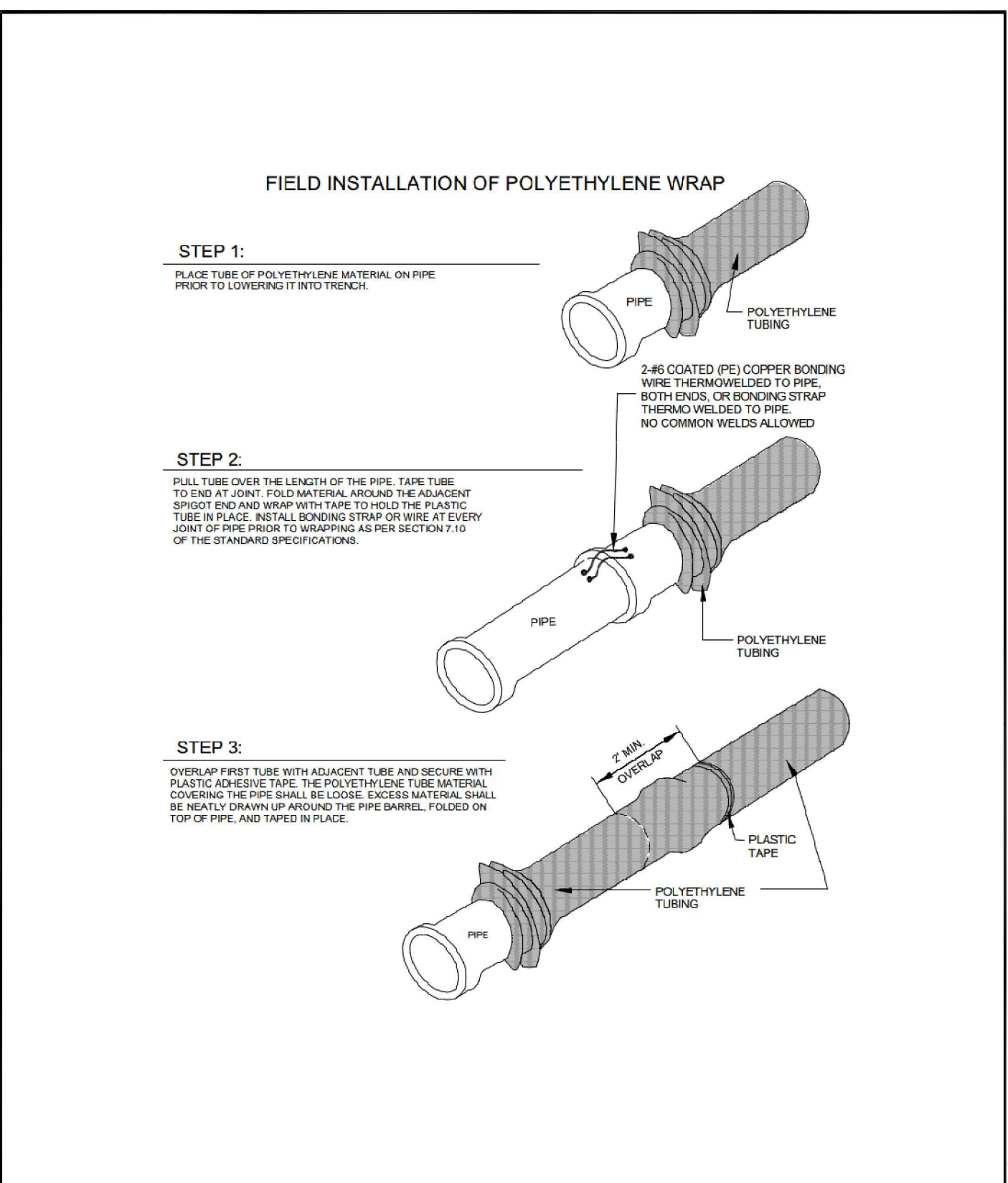
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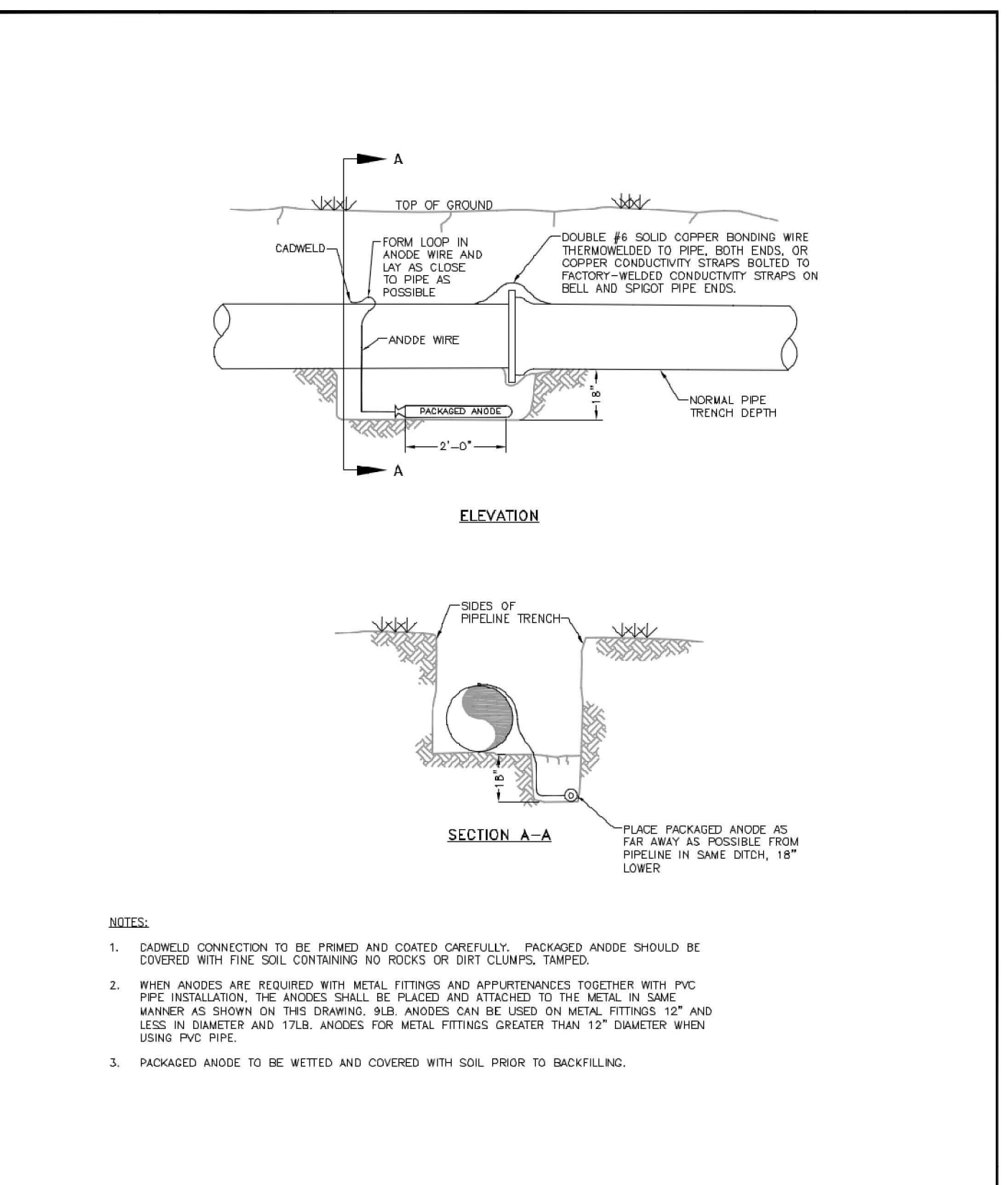
**VALVE INSTALLATION & LOCATION**  
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 Date: MARCH 2011, Revised: [blank]  
 Scale: N.P.S., Standard Specifications: W-5



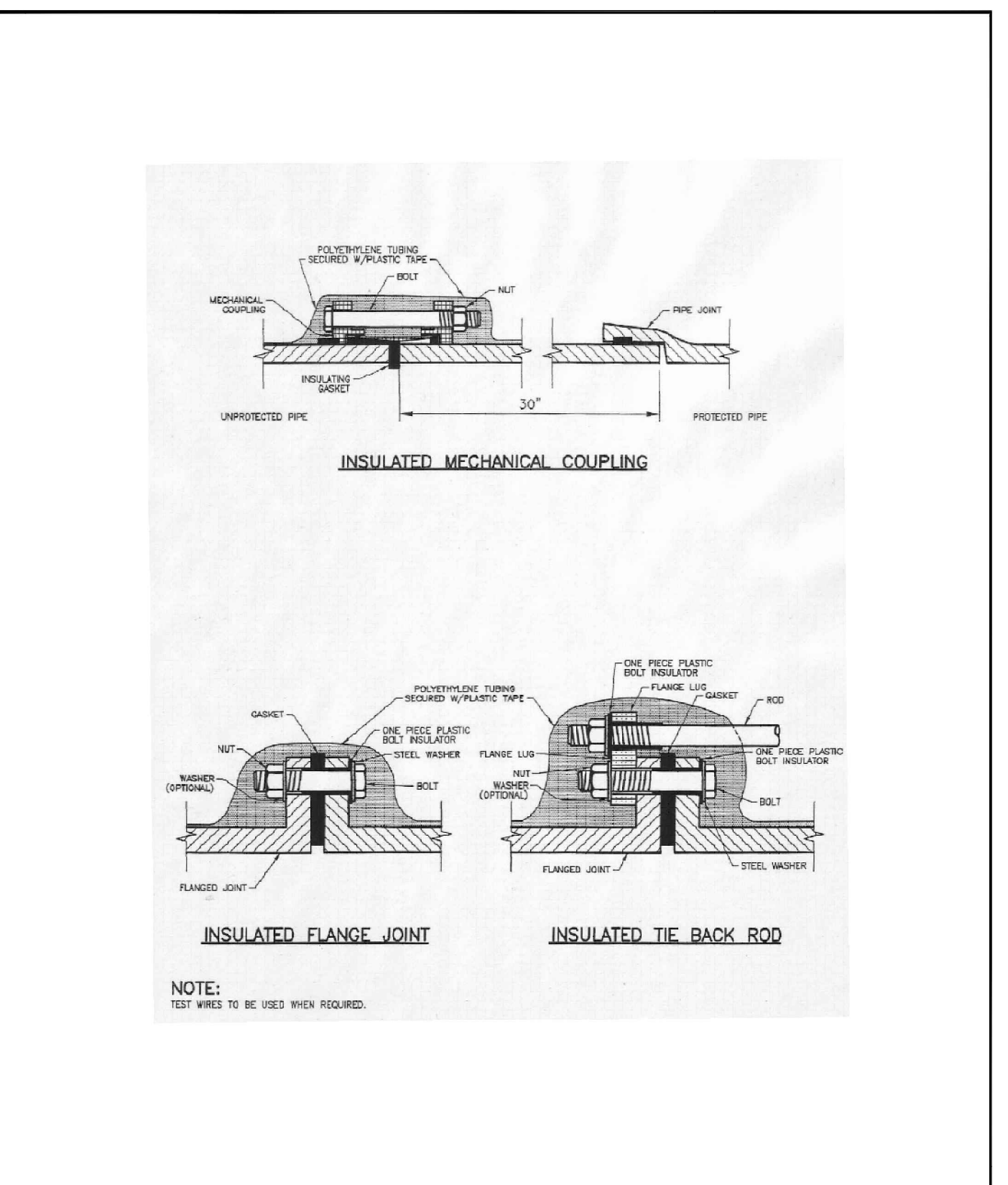
**VALVE BOX INSTALLATION**  
 Drawn: JDM, Revised: DECEMBER 2021  
 Date: MARCH 2011, Revised: [blank]  
 Scale: N.P.S., Standard Specifications: W-6



**POLYETHYLENE WRAP**  
 Drawn: JDM, Revised: DECEMBER 2021  
 Date: MARCH 2011, Revised: [blank]  
 Scale: N.P.S., Standard Specifications: W-7



**BONDING JOINT & ANODE INSTALLATION**  
 Drawn: JDM, Revised: DECEMBER 2021  
 Date: MARCH 2011, Revised: [blank]  
 Scale: N.P.S., Standard Specifications: W-8



**INSULATOR INSTALLATION**  
 Drawn: JDM, Revised: DECEMBER 2021  
 Date: MARCH 2011, Revised: [blank]  
 Scale: N.P.S., Standard Specifications: W-9

11/27/2022 10:00 AM...



#	Date	Issue / Description	Init.

### MAXIMUM PIPELINE DEFLECTION DATA

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

PIPE DIAMETER I.D. (IN)	O.D. (IN)	D.O. (FT)	M.F.S. DEF. (FT)	DESIGN DEFLECTION (80% MAX.)		APPROX. RADIUS FOR DEFLECTING CURVES WITHOUT BLENDS		
				(1)	(2)	(1)	(2)	
				MIN. DEF. (IN)		MIN. DEF. (IN)		
4"	4.85"	4.00"	5'00"/100'	4'00"/100'	16"	15"	286'	258'
6"	6.90"	5.75"	5'00"/100'	4'00"/100'	16"	15"	286'	258'
8"	9.00"	7.50"	5'00"/100'	4'00"/100'	16"	15"	286'	258'
10"	11.30"	9.25"	5'00"/100'	4'00"/100'	16"	15"	286'	258'
12"	13.30"	11.00"	5'00"/100'	4'00"/100'	16"	15"	286'	258'
14"	15.30"	12.75"	5'00"/100'	4'00"/100'	16"	9"	477'	430'
16"	17.40"	14.50"	5'00"/100'	4'00"/100'	16"	9"	477'	430'
18"	19.50"	16.25"	5'00"/100'	4'00"/100'	16"	9"	477'	430'
20"	21.60"	18.00"	5'00"/100'	4'00"/100'	10"	9"	477'	430'
24"	25.80"	21.50"	5'00"/100'	4'00"/100'	10"	9"	477'	430'
30"	32.00"	26.66"	5'00"/100'	4'00"/100'	8"	7"	573'	516'
36"	38.30"	31.92"	5'00"/100'	4'00"/100'	8"	6"	716'	645'
42"	44.60"	37.18"	5'00"/100'	4'00"/100'	6"	6"	716'	645'

(1) 20L = NORMAL 20'-FOOT JOINT LAYING LENGTH  
 (2) = NORMAL 10'-FOOT JOINT LAYING LENGTH

### TYPICAL TRENCH CROSS-SECTION

PIPE DIAMETER	MINIMUM WIDTH	MAXIMUM WIDTH
4"	2'-2"	3'-0"
6"	2'-2"	3'-0"
8"	2'-2"	3'-0"
10"	2'-4"	3'-0"
12"	2'-8"	3'-6"
18"	3'-10"	5'-9"
24"	3'-2"	4'-3"

### CONCRETE THRUST BLOCKS

WATER MAIN AND TAP SIZE COMBINATIONS WHICH REQUIRE A CONCRETE THRUST REACTION BLOCK BEHIND THE MAIN AT THE TAPPING SLEEVE OR SADDLE.

#### ALL WATER MAINS

■ INDICATES CONCRETE THRUST BLOCK REQUIRED

ANY THRUST REACTION BLOCK REQUIREMENTS FOR WATER MAIN AND TAP SIZE COMBINATIONS OTHER THAN THOSE SHOWN ABOVE WILL REQUIRE SPECIAL DESIGN APPROVAL BY THE DISTRICT.

### THRUST BLOCKS REQUIRED FOR TAPS

### THRUST BLOCK DIMENSIONS & VOLUMES - PVC & DIP 250 PSI

MAIN SIZE (IN)	TYPE OF FITTING	MINIMUM BEARING SURFACE AREA (IN²)	Ax (IN)	Ay (IN)	Cx (IN)	Cy (IN)	APPROXIMATE VOLUME (CY)
4	11.25' BEND	1.00	1.00	0.25	0.33	2.00	0.25
4	22.5' BEND	2.00	2.00	1.41	0.21	0.33	22.00
4	45' BEND	3.50	3.50	1.87	0.42	0.33	2.00
4	TEE & DEAD END	4.75	4.75	2.18	0.67	0.33	4.75
6	11.25' BEND	2.00	2.00	1.41	0.25	0.50	2.00
6	22.5' BEND	3.75	3.75	1.94	0.38	0.50	2.00
6	45' BEND	7.25	7.25	2.69	0.58	0.50	2.00
6	TEE & DEAD END	9.60	9.60	3.08	0.83	0.50	2.00
8	11.25' BEND	3.25	3.25	1.80	0.34	0.67	2.00
8	22.5' BEND	6.50	6.50	2.55	0.48	0.67	2.00
8	45' BEND	12.50	12.50	3.57	0.87	0.67	2.00
8	TEE & DEAD END	16.25	16.25	4.64	1.08	0.67	2.00

### THRUST BLOCK DIMENSIONS & VOLUMES - PVC (Maximum Static Pressure = 170 PSI)

MAIN SIZE (IN)	TYPE OF FITTING	MINIMUM BEARING SURFACE AREA (IN²)	Ax (IN)	Ay (IN)	Cx (IN)	Cy (IN)	APPROXIMATE VOLUME (CY)
12	11.25' BEND	4.75	2.18	0.43	1.00	2.00	0.25
12	22.5' BEND	9.25	3.04	0.64	1.00	2.00	0.50
12	45' BEND	18.00	4.92	0.66	1.00	2.00	0.75
12	TEE & DEAD END	23.50	6.42	0.66	1.46	1.00	2.48
16	11.25' BEND	8.00	2.83	0.44	1.33	2.00	0.50
16	22.5' BEND	16.00	4.27	0.66	1.33	2.00	0.75
16	45' BEND	31.00	8.27	0.66	1.33	3.64	1.75
16	TEE & DEAD END	40.50	10.80	0.66	1.33	4.44	3.00

### THRUST BLOCK DIMENSIONS & VOLUMES - DIP (Maximum Static Pressure = 250 PSI)

MAIN SIZE (IN)	TYPE OF FITTING	MINIMUM BEARING SURFACE AREA (IN²)	Ax (IN)	Ay (IN)	Cx (IN)	Cy (IN)	APPROXIMATE VOLUME (CY)
12	11.25' BEND	6.75	2.40	0.43	1.00	2.00	0.50
12	22.5' BEND	13.50	3.69	0.66	0.64	1.00	0.50
12	45' BEND	26.25	7.17	0.66	1.00	3.09	1.50
12	TEE & DEAD END	34.25	9.36	0.66	1.46	1.00	3.95
16	11.25' BEND	11.75	3.43	0.44	1.33	2.00	0.50
16	22.5' BEND	23.25	6.20	0.66	1.33	2.77	1.00
16	45' BEND	46.50	12.13	0.66	1.33	5.67	4.00
16	TEE & DEAD END	59.50	15.87	0.66	1.33	6.98	6.50

NOTES:  
 1. THE MINIMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX. STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETY FACTOR OF 1.5 AND AN ALLOWABLE SOIL BEARING CAPACITY OF 1,500 POUNDS PER SQUARE FOOT. BEARING SURFACE AREA IS ROUNDED UP TO THE NEAREST 0.25 SQUARE FEET. REFERENCE ANNA M-23 AND M-41.  
 2. THE DESIGN ENGINEER IS RESPONSIBLE FOR VERIFYING ASSUMPTIONS BASED ON ACTUAL SITE CONDITIONS. IF SITE CONDITIONS VARY FROM THE ASSUMPTIONS, THE DESIGN ENGINEER SHALL PROVIDE A SITE-SPECIFIC DESIGN IN ACCORDANCE WITH ANNA M-23, PVC PIPE DESIGN AND INSTALLATION, AND ANNA M-41, DUCTILE IRON PIPE AND FITTINGS. SITE-SPECIFIC DESIGN INCLUDING GEOTECHNICAL INFORMATION SHALL BE SUBMITTED TO THE DISTRICT FOR REVIEW.  
 3. THE MINIMUM BEARING SURFACE AREA AND APPROXIMATE VOLUME OF CONCRETE SHALL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETE THRUST BLOCKS. SEE SECTION 9.4 FOR CONCRETE REQUIREMENTS. SEE SECTION 4.6 FOR THRUST BLOCK REQUIREMENTS.  
 4. THE APPROXIMATE VOLUMES SHOWN ARE BASED ON THE MINIMUM BEARING SURFACE AREA AND THE MINIMUM TRENCH DIMENSIONS. THE APPROXIMATE VOLUME IS ROUNDED UP TO THE NEAREST 0.25 CUBIC YARDS.  
 5. THESE CHARTS MAY ONLY BE USED IF THE BLOCK HEIGHT (H) IS EQUAL TO OR LESS THAN ONE-HALF THE TOTAL DEPTH (HD) FROM THE FINISHED GRADE TO THE BOTTOM OF THE BLOCK. THE MINIMUM DIMENSIONS SHOWN ARE BASED ON A PIPE DEPTH OF 5.5 FEET.  
 6. A SITE-SPECIFIC DESIGN SHALL BE REQUIRED FOR PIPES LARGER THAN 16 INCHES OR MAX. STATIC PIPE PRESSURES GREATER THAN 250 POUNDS PER SQUARE INCH. THE DESIGN ENGINEER HAS THE OPTION OF PROVIDING A SITE-SPECIFIC DESIGN FOR PIPES SMALLER THAN 16 INCHES OR MAX. STATIC PRESSURES LESS THAN 250 POUNDS PER SQUARE INCH.  
 7. ALL CALCULATIONS SHALL BE PROVIDED TO THE DISTRICT FOR REVIEW.

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### PIPE TAPPING DETAIL

### PIPE CUTTING

MECHANICAL JOINT CONNECTION  
 PIPE MUST BE CUT AT RIGHT ANGLES TO LONGITUDINAL CENTERLINE IN ALL CASES.  
 PIPE ENDS SHALL BE FREE OF BURRS.  
 MORTAR LINING SHALL BE FLUSH WITH PIPE END.  
 GOUGES CUT IN PIPE ENDS SHALL NOT BE ALLOWED.

SLIP JOINT CONNECTION  
 PIPE CUT IN STRAIGHT LINE AND REVEALED AT 45° ANGLE ON END.

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 PROVIDED THE CURRENT FEE PER CUT IS PAID AND 24-HOUR NOTICE IS GIVEN (THE CURRENT FEE IS SUBJECT TO CHANGE).  
 4. ALL DIP DELIVERED TO JOB SITE MUST BE NEW MATERIAL.

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### TEMP BLOW-OFF ASSEMBLIES - 4", 6", & 8" MAINS W/MJ PLUG

NOTES:  
 1. IF APPROPRIATE LOCATION FOR DISCHARGED WATER CANNOT BE REACHED BY ROLLING THE BEND, ADDITIONAL BENDS MAY BE REQUIRED BY THE DISTRICT INSPECTOR.  
 2. COAT THE RODS, BEAM, AND GALVANIZED STEEL PIPE WITH EPOXY POLYAMIDE COATING, 10 MILS THICK, MIN.  
 3. ENTIRE BLOW-OFF ASSEMBLY MUST BE ADEQUATELY SUPPORTED. CONCRETE PAVES STONES MAY BE REQUIRED.  
 4. PIPE DOPE APPROVED FOR USE IN POTABLE WATER SYSTEMS MUST BE USED ON ALL THREADED FITTINGS.  
 5. TEMPORARY BLOW-OFF PIPE ASSEMBLIES SHALL BE INSPECTED BY THE DISTRICT INSPECTOR PRIOR TO BACKFILL. BACKFILL COMPACTATION TO BE SAME AS PIPE COMPACTIFICATION SPECIFICATIONS.  
 6. 2" GALVANIZED PIPE MUST BE RATED TO 250 PSI AND CONFORM TO NSF-61 SPECIFICATIONS.  
 7. THE DISTRICT INSPECTOR MAY REQUIRE RE-BACK RODS IN ADDITION TO THE MJ RESTRAINTS DEPENDING ON FIELD CONDITIONS AND SYSTEM PRESSURES.

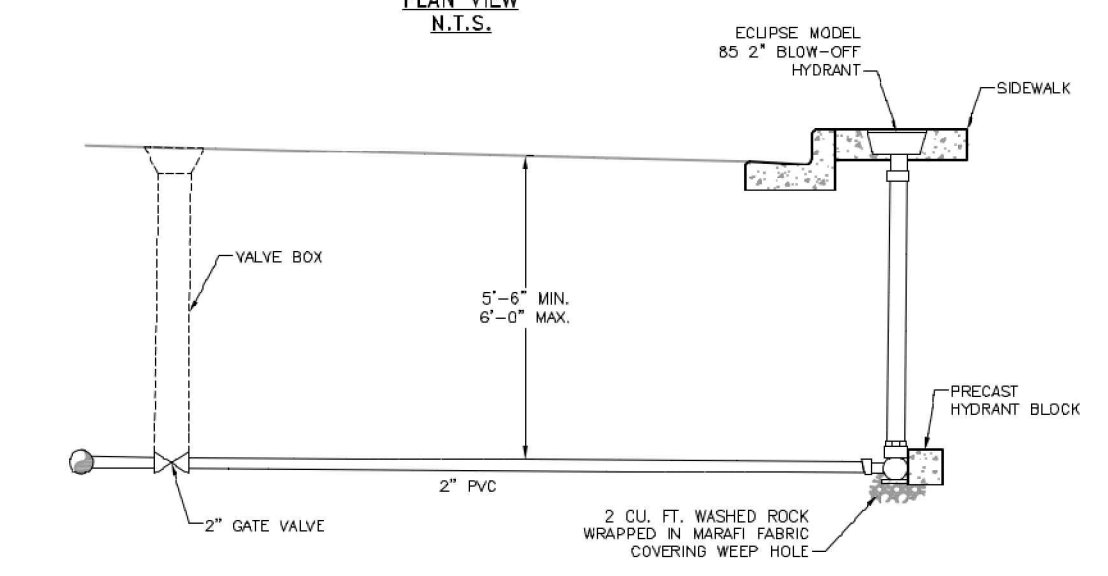
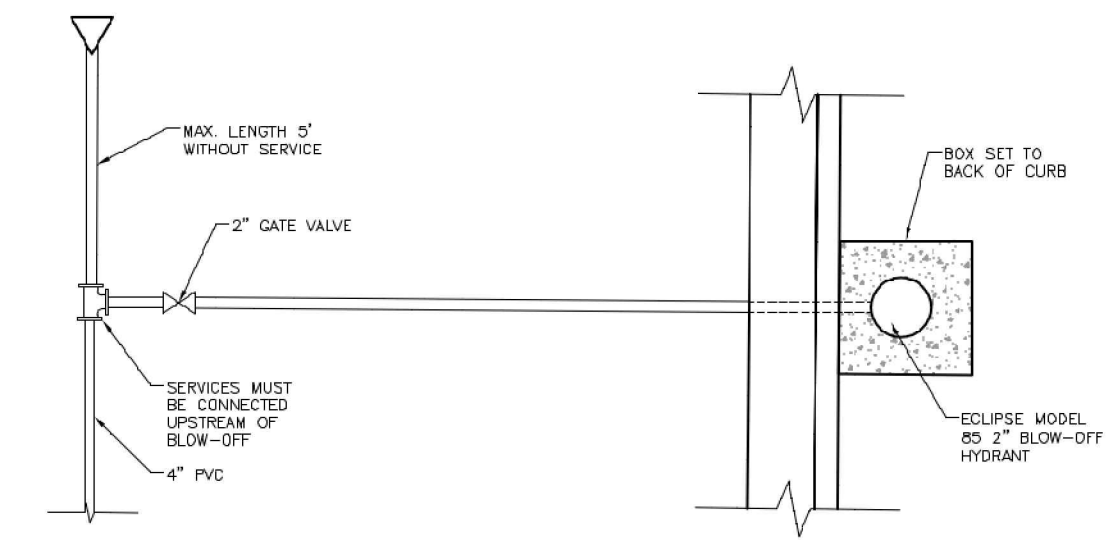
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### CONCRETE REVERSE ANCHOR FOR MECHANICAL JOINT RESTRAINTS

DIAMETER (IN)	PRESSURE (PSI)	x (IN)	Ax (IN)	y (IN)	Ay (IN)	Ab (IN)	h (IN)	Vol (CY)
4	250	12	72	12	28.80	6.80	18	1.0
6	250	18	84	12	30.90	9.73	18	1.0
8	250	36	120	12	33.05	18.53	18	1.5
12	170	36	120	15	43.20	24.60	18	2.0
12	250	48	144	18	49.20	36.80	24	3.75
16	170	54	156	18	53.40	44.05	24	4.25
16	250	60	168	24	65.40	60.50	36	8.5

NOTES:  
 1. THE MINIMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX. STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETY FACTOR OF 1.5 AND AN ALLOWABLE SOIL BEARING CAPACITY OF 1,500 POUNDS PER SQUARE FOOT. FOR HOSE ADDITIONAL ASSUMPTIONS INCLUDE A MAX. SOFT TEMPERATURE CHANGE AND A POISSON RATIO OF 0.45. REFERENCE ANNA M-23, M-41, AND M-25.  
 2. THE DESIGN ENGINEER IS RESPONSIBLE FOR VERIFYING ASSUMPTIONS BASED ON ACTUAL SITE CONDITIONS. IF SITE CONDITIONS VARY FROM THE ASSUMPTIONS, THE DESIGN ENGINEER SHALL PROVIDE A SITE-SPECIFIC DESIGN THAT SHALL BE IN ACCORDANCE WITH ANNA M-23, PVC PIPE DESIGN AND INSTALLATION, AND ANNA M-41, DUCTILE IRON PIPE AND FITTINGS. SITE-SPECIFIC DESIGN INCLUDING GEOTECHNICAL INFORMATION SHALL BE SUBMITTED TO THE DISTRICT FOR APPROVAL.  
 3. THE MINIMUM BEARING SURFACE AREA (AS) AND APPROXIMATE VOLUME OF CONCRETE (VOL) SHALL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETE REVERSE ANCHORS.  
 4. THE APPROXIMATE VOLUMES SHOWN ARE BASED ON THE MINIMUM DIMENSIONS IN THE TABLE. THE APPROXIMATE VOLUME IS ROUNDED UP TO THE NEAREST 0.25 CUBIC YARDS.  
 5. A SITE-SPECIFIC DESIGN SHALL BE REQUIRED FOR PIPES LARGER THAN 16 INCHES OR MAX. STATIC PIPE PRESSURES GREATER THAN 250 POUNDS PER SQUARE INCH. THE DESIGN ENGINEER HAS THE OPTION OF PROVIDING A SITE-SPECIFIC DESIGN FOR PIPES SMALLER THAN 16 INCHES OR MAX. STATIC PRESSURES LESS THAN THE PRESSURE LISTED IN THE TABLE.  
 6. COAT RODS WITH EPOXY POLYAMIDE COATING, 10 MILS THICK, MIN.  
 7. A TRENCH WIDTH OF 4 FEET AND 4" BEHIND LINE OF THE PIPE ARE ASSUMED FOR BEARING CALCULATIONS. (Ax, Ay, AND y).  
 8. THE DESIGN ENGINEER SHALL ENSURE THE CONSTRUCTION OF THE CONCRETE REVERSE ANCHOR SHALL NOT CONFLICT WITH OTHER UTILITIES.  
 9. DUCTILE IRON FITTINGS AND PIPE SHALL BE WRAPPED IN POLYETHYLENE TUBING WHERE ADJACENT TO CONCRETE.

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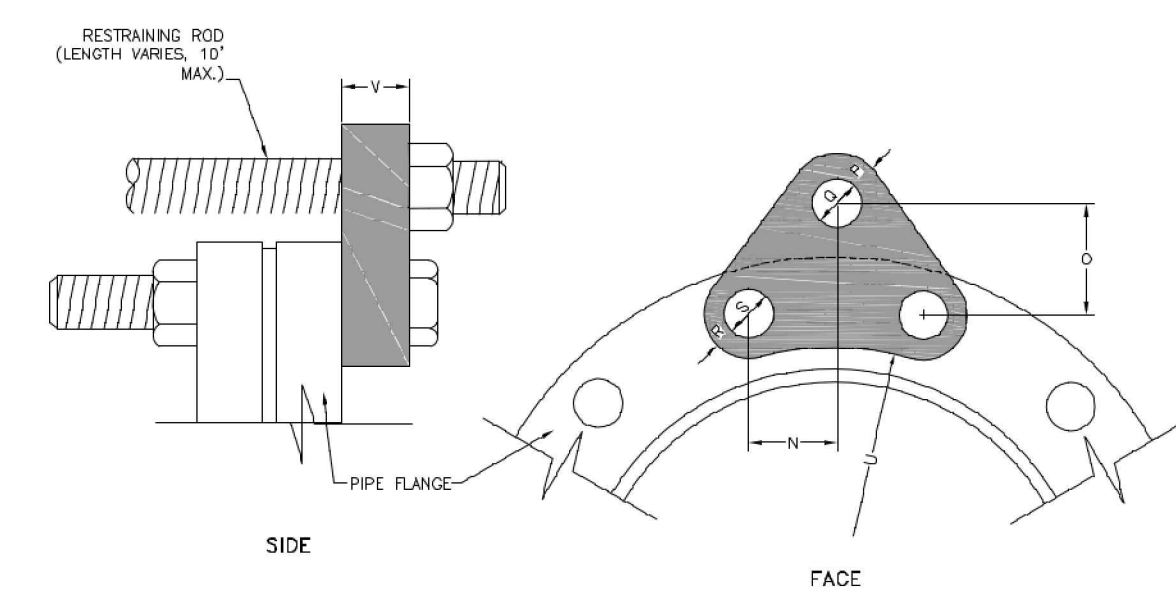


CUL-DE-SAC BLOW-OFF DETAIL

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**WOODMEN HILLS** WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS **W-26**



PIPE DIA. (IN.)	PRESS CLASS (PSI)	H.S. ROD								M.S. ROD								NO. REQ'D (EA)		
		"N"	"O"	"P"	"Q"	ROD DIA. (IN.)	"P"	"Q"	ROD DIA. (IN.)	"R"	"S"	"U"	"V"	"R"	"S"	"U"	"V"			
6	150	1-15/16	2-1/4	1	7/8	3/4	1	7/8	3/4	1	7/8	3/4	1	7/8	3/4	1	7/8	3/4	1	2
300	1-3/8	2-3/4	1	1	7/8	3/4	1	7/8	3/4	1	7/8	3/4	1	7/8	3/4	1	7/8	3/4	1	2
8	150	2-1/4	2-3/4	1	1	7/8	1	1	7/8	1	1	7/8	1	1	7/8	1	1	7/8	1	2
300	1-15/16	2-7/8	1	1	7/8	1	1	7/8	1	1	7/8	1	1	7/8	1	1	7/8	1	1	2
12	150	2-5/8	2-3/4	1-1/4	1-1/8	1-1/2	1-3/8	1-1/4	1-1/8	1-1/2	1-3/8	1-1/4	1-1/8	1-1/2	1-3/8	1-1/4	1-1/8	1-1/2	1-3/8	2
300	1-3/4	3-3/4	1-3/8	1-1/4	1-1/2	1-3/8	1-1/4	1-1/2	1-3/8	1-1/4	1-1/2	1-3/8	1-1/4	1-1/2	1-3/8	1-1/4	1-1/8	1-1/2	1-3/8	2
16	150	2-1/8	2-3/4	1-1/2	1-3/8	1-1/4	1-1/2	1-3/8	1-1/4	1-1/2	1-3/8	1-1/4	1-1/8	1-1/2	1-3/8	1-1/4	1-1/8	1-1/2	1-3/8	3
300	1-3/4	4-1/4	1-1/2	1-1/2	1-3/8	1-1/2	1-1/2	1-3/8	1-1/2	1-1/2	1-3/8	1-1/2	1-1/2	1-3/8	1-1/2	1-3/8	1-1/2	1-3/8	1-1/2	3
18	150	2-1/4	2-1/2	1-1/8	1	1-1/8	1	1-1/8	1	1-1/8	1	1-1/8	1	1-1/8	1	1-1/8	1	1-1/8	1	4
300	1-7/8	3-5/4	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	4
20	150	2-5/8	1-15/16	1-1/8	1	1-1/8	1	1-1/8	1	1-1/8	1	1-1/8	1	1-1/8	1	1-1/8	1	1-1/8	1	4
300	2	3-1/16	1-3/8	1-3/8	1-1/2	1-3/8	1-1/2	1-3/8	1-1/2	1-3/8	1-1/2	1-3/8	1-1/2	1-3/8	1-1/2	1-3/8	1-1/2	1-3/8	1-1/2	4
150	2-5/8	2-5/8	1-7/8	1	1-7/8	1	1-7/8	1	1-7/8	1	1-7/8	1	1-7/8	1	1-7/8	1	1-7/8	1	1-7/8	6
24	300	2-5/8	3-1/8	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	6

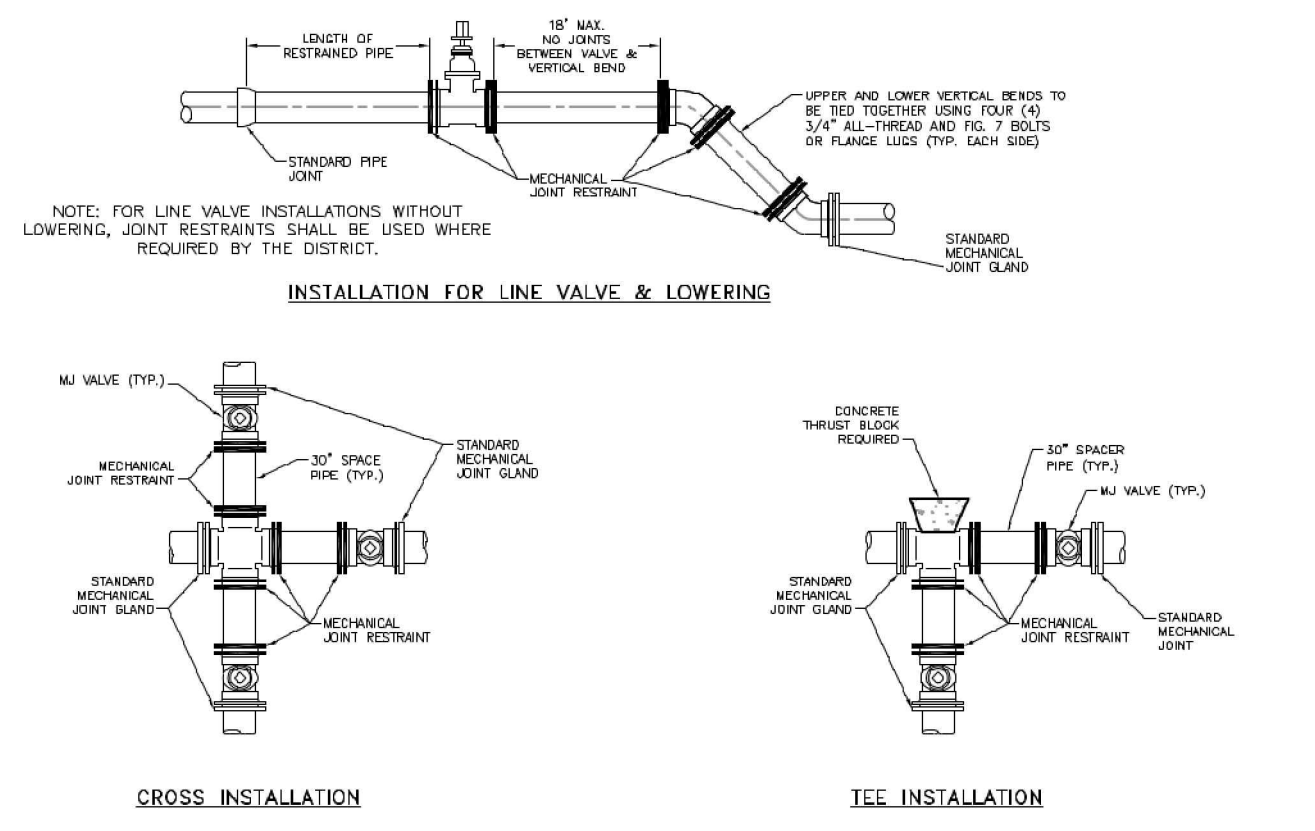
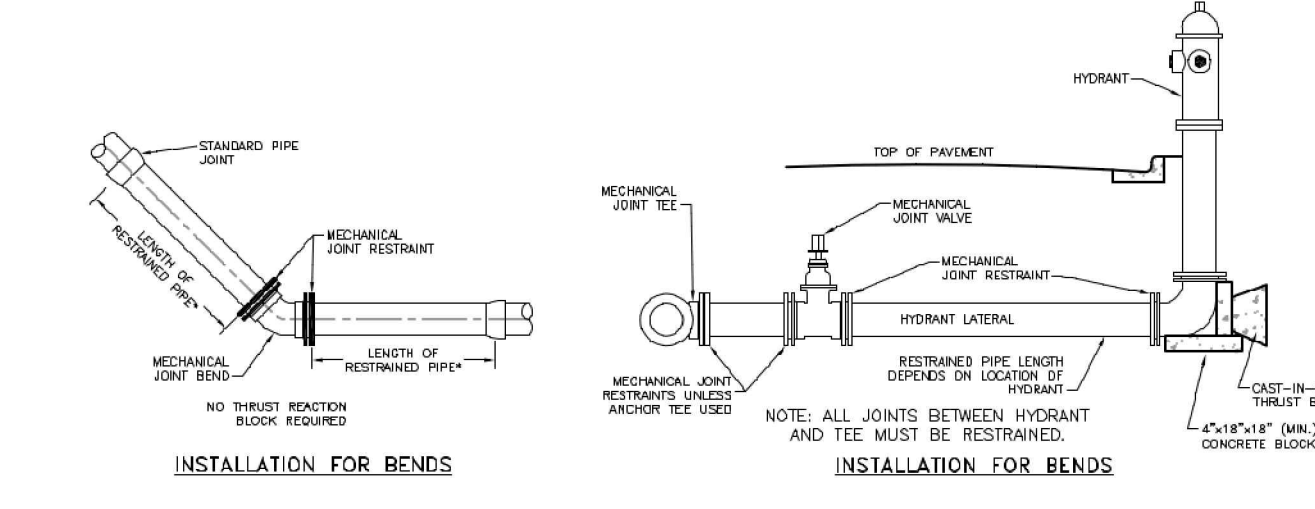
NOTES:  
 1. M.S. MEANS MILD STEEL ROD, ASTM STANDARD DESIGNATION A-36. NUTS SHALL BE ASTM STANDARD DESIGNATION A-307.  
 2. H.S. MEANS HIGH STRENGTH STEEL ROD, ASTM STANDARD DESIGNATION A-193 GRADE B-7. NUTS SHALL BE ASTM STANDARD DESIGNATION A-193 GRADE 2-H.

FLANGE - LUG DETAIL

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**WOODMEN HILLS** WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS **W-27**



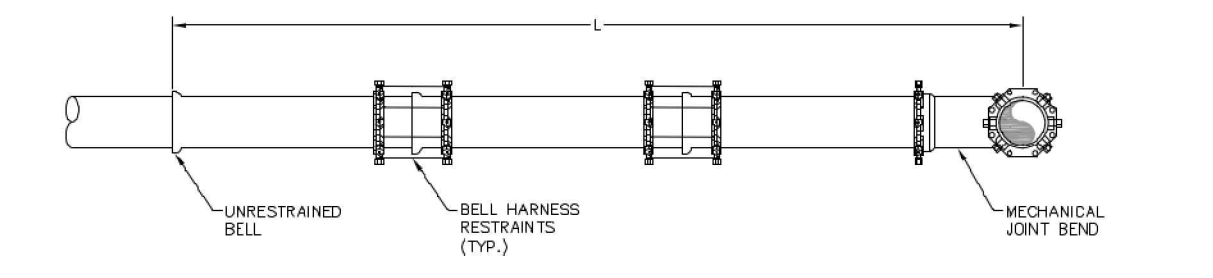
APPLICATIONS FOR MECHANICAL JOINT RESTRAINTS

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**WOODMEN HILLS** WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS **W-28**

PIPE DIA. (IN.)	L = MINIMUM RESTRAINED PIPE LENGTH									DEAD-END VALUE OF PIPE TO INCLUDE (SEE NOTE 7)		
	45° BEND			22-1/2° BEND			11-1/4° BEND					
MAX. STATIC PRESSURE (PSI)	<100	100-150	150-200	<100	100-150	150-200	<100	100-150	150-200	<100	100-150	150-200
8-INCH DUCTILE IRON AND PVC	6	9	12	3	5	6	2	3	3	4	6	8
12-INCH DUCTILE IRON AND PVC	8	12	16	4	6	8	2	3	4	6	8	12
16-INCH DUCTILE IRON AND PVC	12	17	23	6	8	11	3	4	6	8	13	17
20-INCH DUCTILE IRON AND PVC	15	22	29	7	11	14	4	5	7	8	13	17
24-INCH DUCTILE IRON AND PVC	18	28	35	9	13	17	4	6	8	10	13	17
30-INCH DUCTILE IRON AND PVC	20	30	40	10	15	20	5	7	10	11	13	17
36-INCH DUCTILE IRON AND PVC	24	36	48	12	18	24	6	9	12	13	17	21



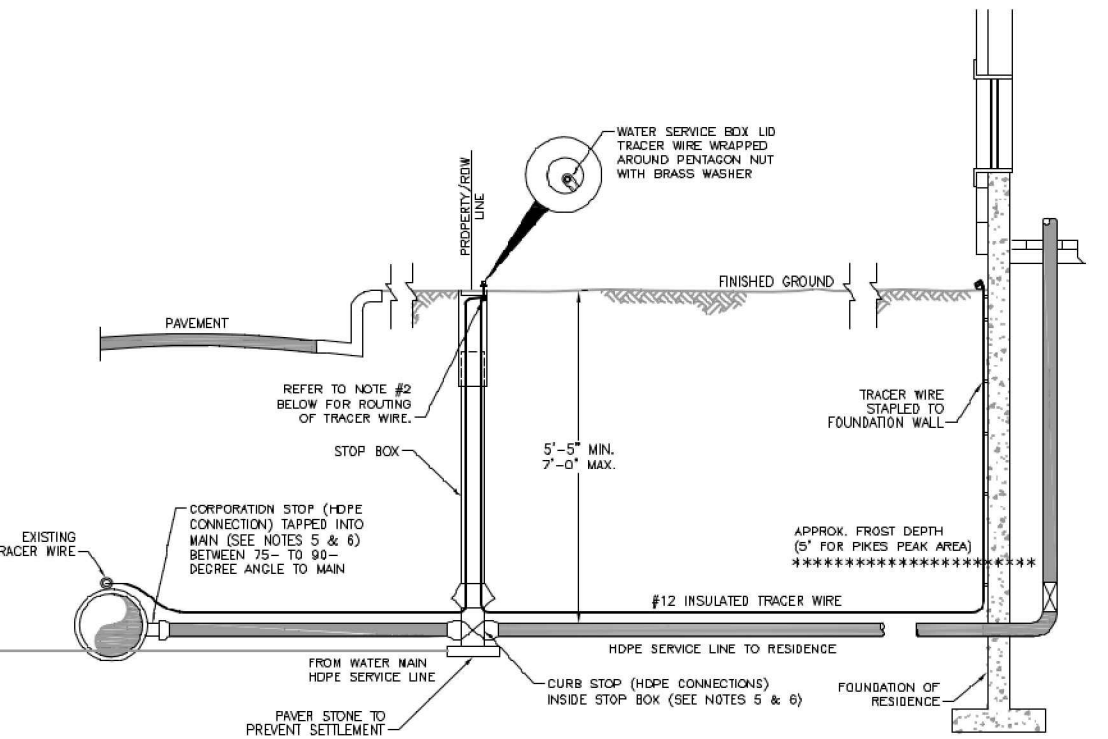
- NOTES:
- PRESSURE GREATER THAN 200 PSI REQUIRES SPECIAL DESIGN APPROVED BY THE DISTRICT.
  - LENGTH IS BASED ON MINIMUM 5 FEET OF GROUND COVER AND COMPACTED SOIL. IF THE DEPTH IS LESS THAN 5 FEET, RESTRAINED LENGTH MUST BE DESIGNED BY THE DESIGN ENGINEER.
  - RESTRAINED PIPE LENGTH APPLIES TO CONDITION WHERE NO CONCRETE THRUST REACTION BLOCK IS PRESENT.
  - CALCULATIONS ARE BASED ON POORLY-GRADED SANDS, GRAVEL, AND GRAVEL-SAND MIXTURE, LITTLE OR NO FINES, TYPE 4 BEDDING CONDITIONS - "TYPE B" BEDDED IN SAND, GRAVEL, OR CRUSHED STONE TO A DEPTH OF 1/8 PIPE DIAMETER (4" MIN.), FACTOR OF SAFETY 2:1.
  - FIGURES ARE BASED ON DIP WRAPPED IN POLYETHYLENE MATERIAL.
  - USE CBA FOR DOWN-TURNING BENDS.
  - RESTRAINED LENGTH FOR DEAD END MAY BE USED AT THE DISCRETION OF THE DISTRICT.

RESTRAINED PIPE LENGTH (FT) W/ MECHANICAL JOINT RESTRAINTS

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**WOODMEN HILLS** WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS **W-13**



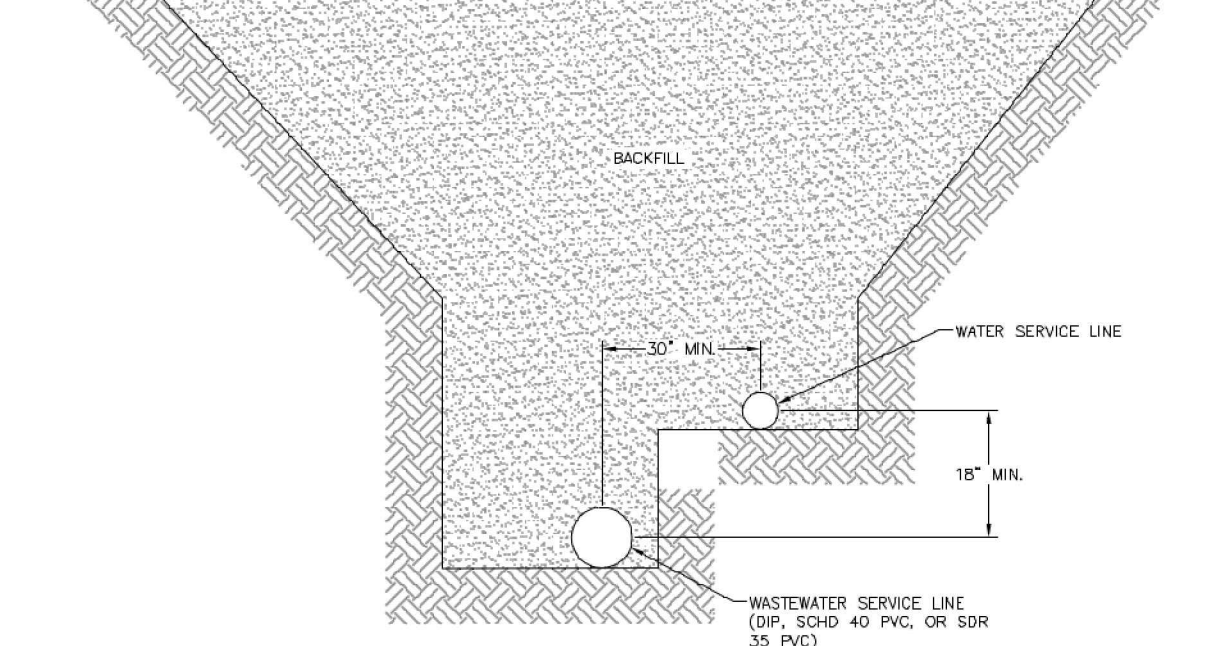
- WATER SERVICE LINE NOTES:
- NO. 12 INSULATED TRACER WIRE SHALL BE PLACED ALONG SERVICE LINE AND SHALL BE A CONTINUOUS (WITHOUT SPLICES) LENGTH.
  - WHEN A NEW PLASTIC SERVICE IS CONNECTED TO A PVC MAIN, THE SERVICE LINE TRACER WIRE SHALL BE CONNECTED TO THE MAIN'S TRACER WIRE WITH A SPLICE/ROUT CONNECTOR. THE TRACER WIRE IS THEN TAPED ALONG THE SERVICE LINE IN AT LEAST 3 LOCATIONS NOT TO EXCEED 10'. ALL CURB STOP BOXES SHALL HAVE A 1-1/2" DIA. SCHED. 40 PVC PIPE TELESCOPED INSIDE WITH A BELL END TO FIT OVER THE TOP OF THE CURB STOP VALVE. TRACER WIRE SHALL BE EXTENDED UP THE INSIDE OF CURB STOP BOX BUT OUTSIDE THE 1-1/2" SCHED. 40 PVC PIPE. TRACER WIRE SHALL BE WRAPPED AROUND CURB STOP BOX UNDER A BRASS WASHER. THE WIRE WILL THEN BE ROUTED BACK DOWN INSIDE THE CURB BOX AND OUTSIDE THE SCHED. 40 PVC AND TAPED AGAIN TO THE SERVICE LINE UNTIL IT REACHES THE POINT WHERE THE SERVICE LINE ENTERS THE BUILDING. AT THIS POINT, THE TRACER WIRE WILL BE STAPLED TO THE FOUNDATION WALL, THEN TURNED BACK TO FORM A ONE-INCH-LONG HOOK AND WRAPPED WITH 1/4" FILLER TAPE AND THEN 3/4" ELECTRICAL TAPE FOR PROTECTION AT THE SURFACE.
  - TO ASSIST IN PE PIPE LOCATING, A 9-1/8 ANGLE SHOULD BE CONNECTED TO THE END OF THE TRACER WIRE AND THE WATER MAIN TRACER WIRE EVERY 1,000 FEET ALONG THE LENGTH OF THE WATER MAIN. THE NEW ANGLE WILL BE ATTACHED TO THE WATER SERVICE/WATER MAIN TRACER WIRE WITH A SPIRIT-BOLT CONNECTOR. THE CONNECTOR IS TO BE WRAPPED FIRST WITH A 4" FILLER TAPE AND THEN 3/4" ELECTRICAL TAPE FOR PROTECTION AGAINST CORROSION.
  - THE APPROPRIATE CLEARANCES BETWEEN ROADS AND STEEL PIPES OR OTHER STRUCTURES MUST BE MAINTAINED PER WATER LINE EXTENSION & SERVICE STANDARDS.
  - BRASS FITTINGS, CORP. STOP, AND CURB STOP SHALL BE WRAPPED WITH MAX TAP FOR PROTECTION FOR THE WATER LINE EXTENSION & SERVICE STANDARDS.
  - STIFFENERS SHALL BE INSTALLED WITHIN THE HOPE SERVICE LINE AT THE CONNECTION POINTS OF THE FITTINGS.

TYPICAL INSTALLATION FOR SERVICE LINE & STOP BOX

Drawn: DGM/2193  
Date: MARCH 2011  
Scale: N.T.S.

Revised: DECEMBER 2001  
Revised: [blank]

**WOODMEN HILLS** WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS **W-36**



TYPICAL COMMON SERVICE TRENCH SECTION

Drawn: DGM  
Date: MARCH 2011  
Scale: N.T.S.

Revised: DECEMBER 2001  
Revised: [blank]

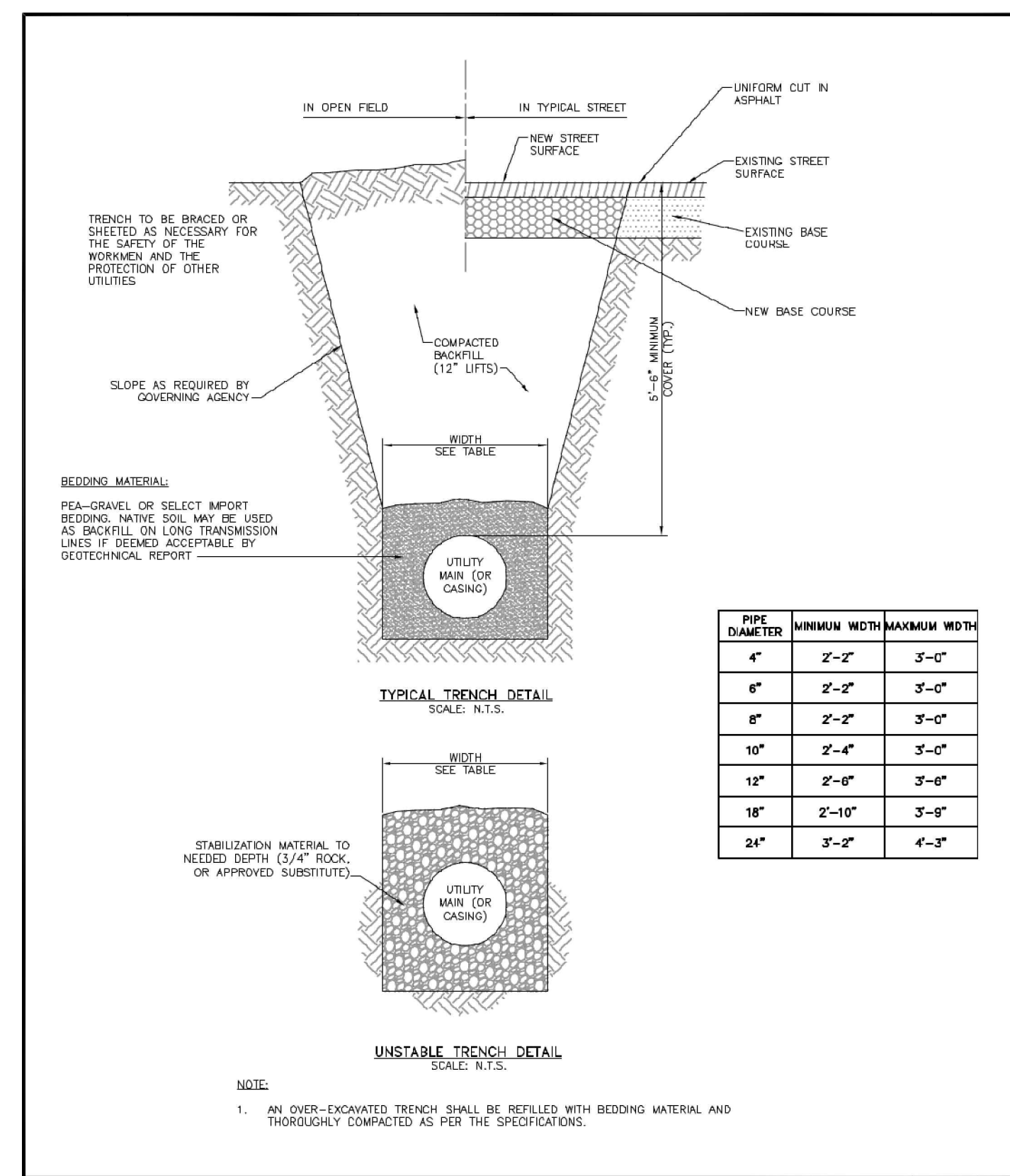
**WOODMEN HILLS** WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS **W-15**

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GRADING & EROSION CONTROL PLANS  
 GRANDVIEW RESERVE FILING NO. 1  
 4 SITE INVESTMENTS, LLC (D.R. HORTON)  
 SF-22-XXX  
 EASTONVILLE RD & REX RD  
 EL PASO COUNTY, FALCON, CO 80831

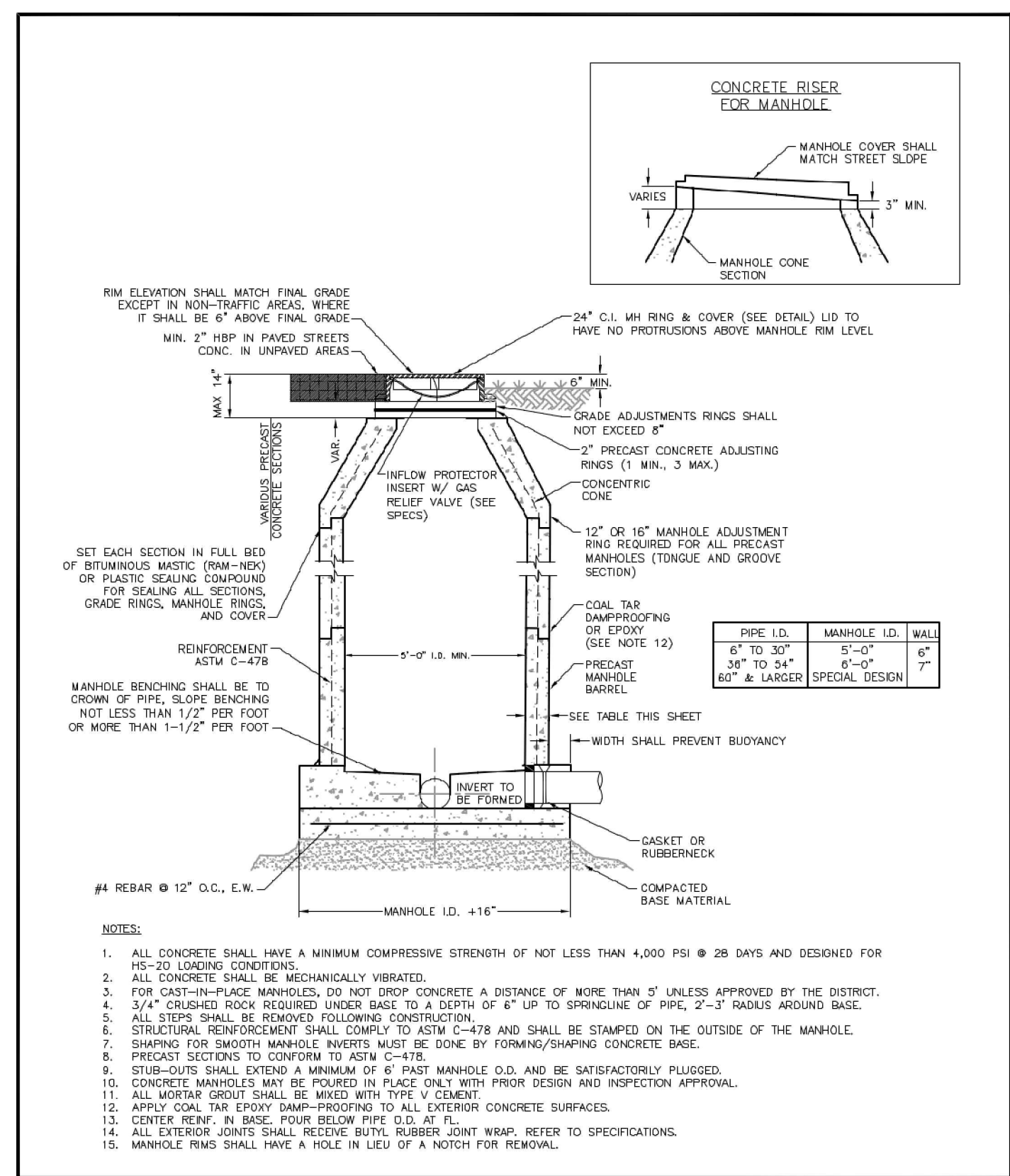
#	Date	Issue / Description	Init.

Project No: HRG02  
 Drawn By: JDM  
 Checked By: RGD  
 Date: 10/14/2022  
**WATER DETAILS**



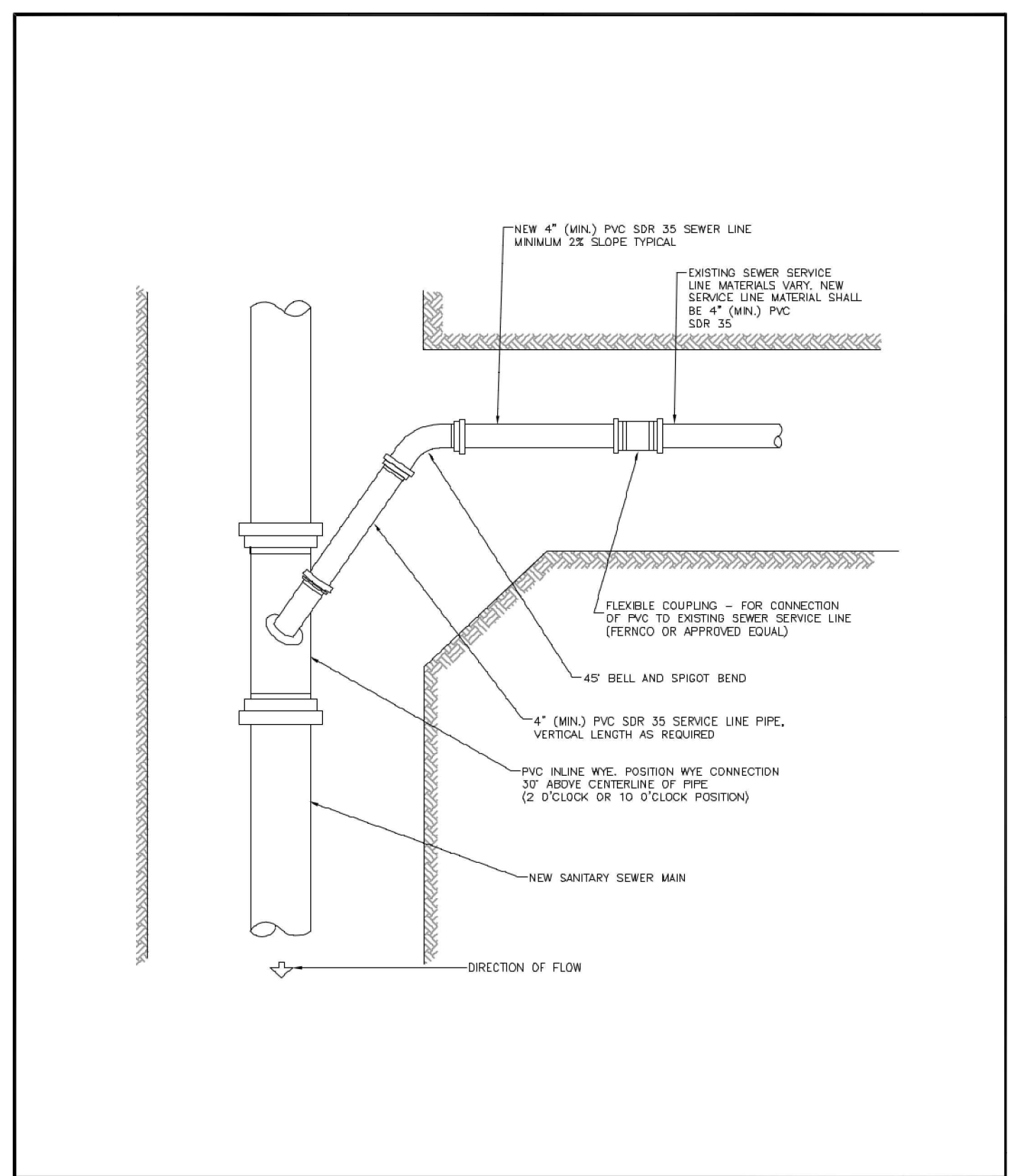
**TYPICAL TRENCH CROSS SECTION**

Drawn: <i>DLW/DM</i>	Reviewed: <i>DECEMBER 2021</i>	WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS	<b>WW-1</b>
Date: <i>MARCH 2011</i>	Revised:		
Scale: <i>N.T.S.</i>	Revised:		



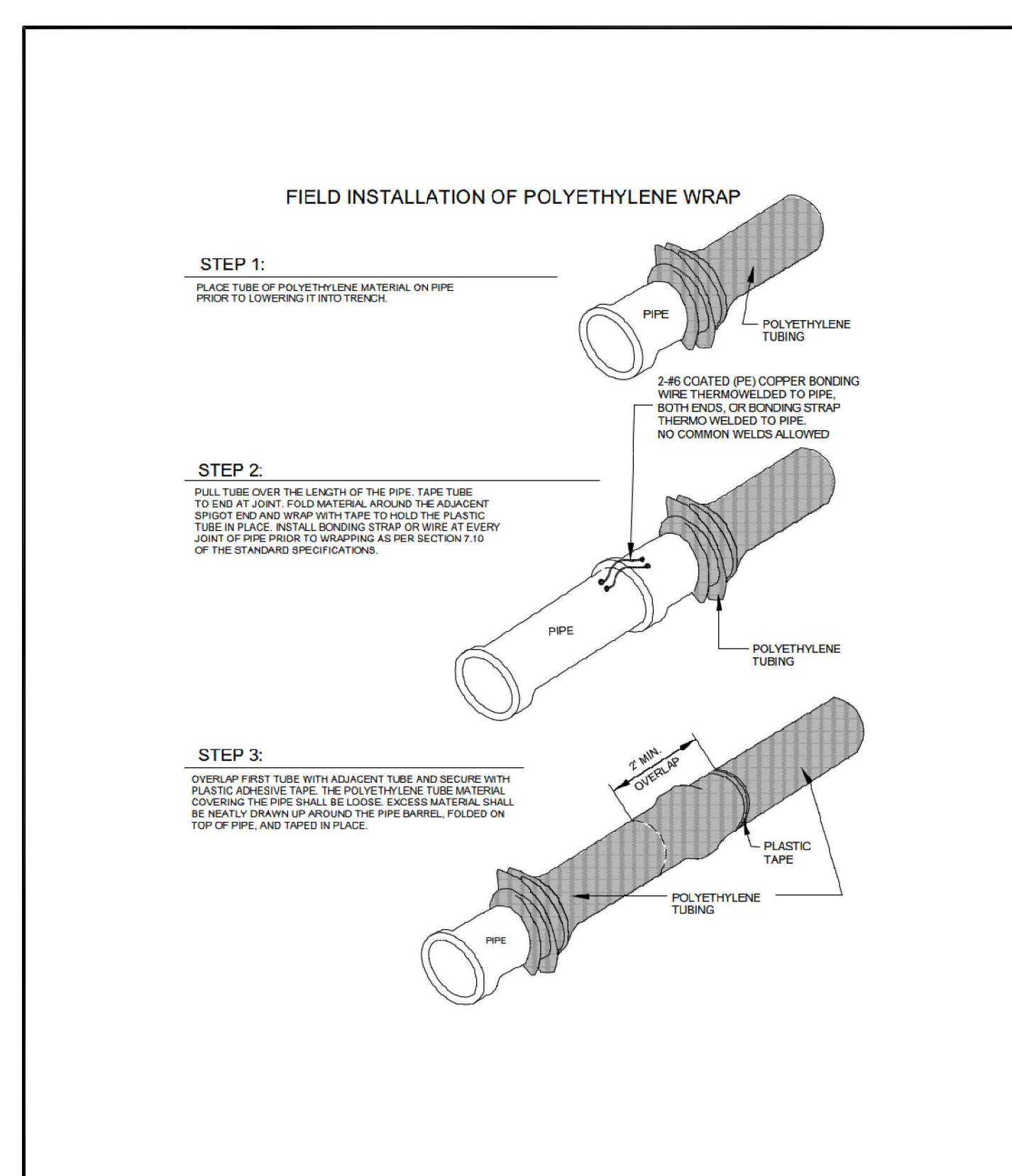
**PRECAST MANHOLE**

Drawn: <i>DLW/DM</i>	Reviewed: <i>DECEMBER 2021</i>	WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS	<b>WW-2</b>
Date: <i>MARCH 2011</i>	Revised:		
Scale: <i>N.T.S.</i>	Revised:		



**PIPE CUTTING**

Drawn: <i>DLW</i>	Reviewed: <i>DECEMBER 2021</i>	WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS	<b>WW-4</b>
Date: <i>MARCH 2011</i>	Revised:		
Scale: <i>N.T.S.</i>	Revised:		



**POLYETHYLENE PIPE WRAP**

Drawn: <i>DLW</i>	Reviewed: <i>DECEMBER 2021</i>	WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS	<b>WW-9</b>
Date: <i>MARCH 2011</i>	Revised:		
Scale: <i>N.T.S.</i>	Revised:		

**MAXIMUM PIPELINE DEFLECTION DATA**

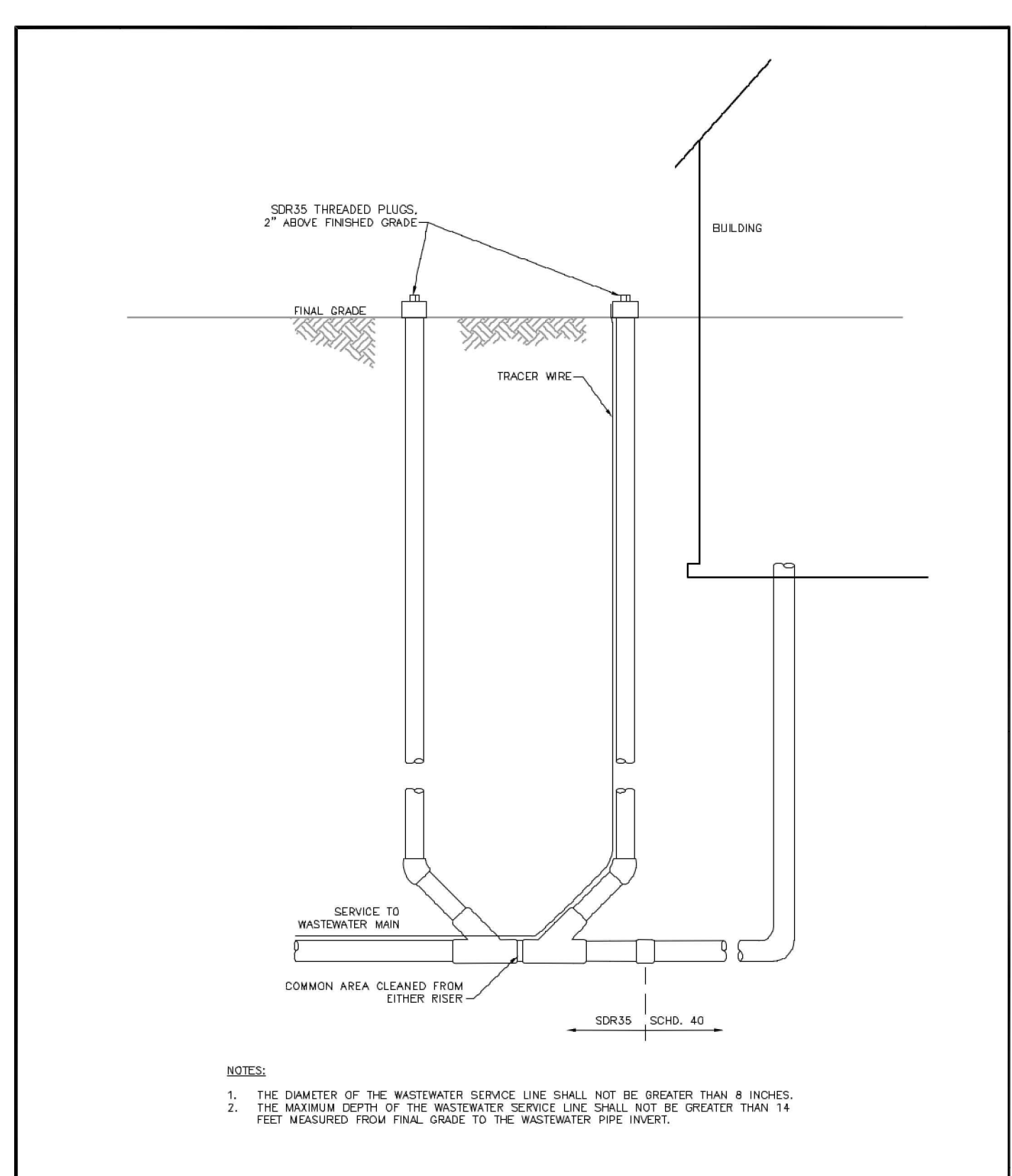
PER SLIP JOINT OF D.I.P.

PIPE DIAMETER (I.D.) (N)	O.D. (N)	O.D. (FT)	MFRS. DEF'L.	DESIGN DEFLECTION (BOX MAX.)	APPROX. RADIUS FOR DEFLECTING CURVES WITHOUT BENDS			
					MAX. DEF'L. DIST.			
					(1)	(2)		
4"	4.80"	4.60"	5'00"00"	4'00"00"	16"	15"	266'	258'
6"	6.90"	6.70"	5'00"00"	4'00"00"	16"	15"	296'	258'
8"	9.05"	8.84"	5'00"00"	4'00"00"	16"	15"	296'	258'
10"	11.10"	10.89"	5'00"00"	4'00"00"	16"	15"	296'	258'
12"	13.20"	12.99"	5'00"00"	4'00"00"	16"	15"	296'	258'
14"	15.30"	15.10"	5'00"00"	4'00"00"	16"	15"	296'	258'
16"	17.40"	17.20"	5'00"00"	4'00"00"	16"	15"	296'	258'
18"	19.50"	19.30"	5'00"00"	4'00"00"	16"	15"	296'	258'
20"	21.60"	21.40"	5'00"00"	4'00"00"	16"	15"	296'	258'
24"	25.80"	25.60"	5'00"00"	4'00"00"	16"	15"	296'	258'
30"	32.00"	31.80"	5'00"00"	4'00"00"	16"	15"	296'	258'
36"	38.30"	38.10"	5'00"00"	4'00"00"	16"	15"	296'	258'
42"	44.50"	44.30"	5'00"00"	4'00"00"	16"	15"	296'	258'

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

**MAXIMUM PIPELINE DEFLECTION DATA**

Drawn: <i>DLW</i>	Reviewed: <i>DECEMBER 2021</i>	WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS	<b>WW-11</b>
Date: <i>MARCH 2011</i>	Revised:		
Scale: <i>N.T.S.</i>	Revised:		



**RESIDENTIAL SEWER TWO-WAY CLEANOUT**

Drawn: <i>DLW</i>	Reviewed: <i>DECEMBER 2021</i>	WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS	<b>WW-3</b>
Date: <i>MARCH 2011</i>	Revised:		
Scale: <i>N.T.S.</i>	Revised:		

#	Date	Issue / Description	Init.

Project No:	HRG02
Drawn By:	JDM
Checked By:	RGD
Date:	10/14/2022