

TAOS PUEBLO WATER & WASTEWATER EXPANSION DECEMBER, 2015



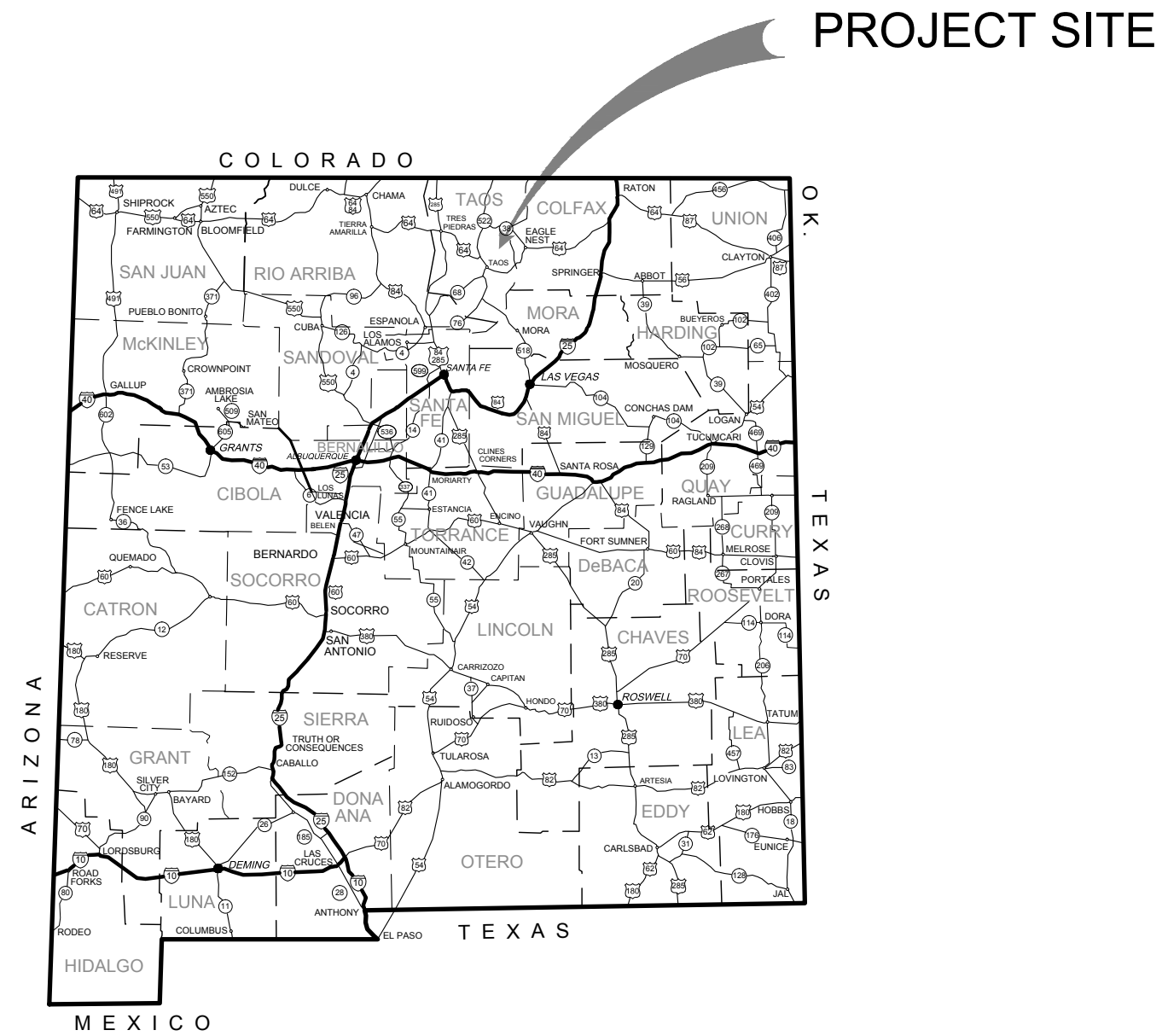
SITE OWNER: TAOS PUEBLO
CONTACT: LUIS ROMERO, GOVERNOR
 120 VETERANS HIGHWAY
 TAOS, NEW MEXICO 87571
 TELEPHONE: (575) 758-8626

PROJECT ENGINEER: SOUDER, MILLER & ASSOCIATES
CONTACT: CRISPIN KINNEY, PE
 2904 RODEO PARK DRIVE EAST, BLDG 100
 SANTA FE, NEW MEXICO 87505
 TELEPHONE: (505) 473-9211
 FAX NUMBER: (505) 471-6675

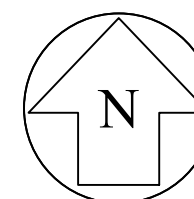
THESE PLANS HAVE BEEN
 REVIEWED AND APPROVED
 BY TAOS PUEBLO

Luis Romero
 LUIS ROMERO, GOVERNOR

12/30/2015
 Date



VICINITY MAP
 NOT TO SCALE



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- SS-24 SEWER PLAN & PROFILE - LINE H - STA 0+00 TO 4+00
- NOT INCLUDED IN SCOPE OF WORK
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- NOT INCLUDED IN SCOPE OF WORK
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- ALTERNATE C
- W-1 WATERLINE PLAN AND PROFILE - LINE W1 - STA 0+00 TO 5+00
- W-2 WATERLINE PLAN AND PROFILE - LINE W1 - STA 5+00 TO 10+00
- W-3 WATERLINE PLAN AND PROFILE - LINE W1 - STA 10+00 TO 15+00
- W-4 WATERLINE PLAN AND PROFILE - LINE W1 - STA 15+00 TO 20+00
- W-5 WATERLINE PLAN AND PROFILE - LINE W1 - STA 20+00 TO 25+00
- W-6 WATERLINE PLAN AND PROFILE - LINE W1 - STA 25+00 TO 30+00
- W-7 WATERLINE PLAN AND PROFILE - LINE W1 - STA 30+00 TO 35+00
- W-8 WATERLINE PLAN AND PROFILE - LINE W1 - STA 35+00 TO 40+00
- W-9 WATERLINE PLAN AND PROFILE - LINE W1 - STA 40+00 TO 45+00
- W-10 WATERLINE PLAN AND PROFILE - LINE W1 - STA 45+00 TO 50+25
- W-11 WATERLINE PLAN AND PROFILE - LINE W1 - STA 50+25 TO 55+25
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- ALTERNATE B
- W-13 WATERLINE PLAN AND PROFILE - LINE W2 - STA 0+00 TO 5+00
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- W-15 WATERLINE PLAN AND PROFILE - LINE W2 - STA 10+00 TP 15+00
- W-16 WATERLINE PLAN AND PROFILE - LINE W2 - STA 15+00 TO 19+50
- NOT INCLUDED IN SCOPE OF WORK
- W-17 WATERLINE PLAN AND PROFILE - LINE W4 - STA 0+00 TO 4+40

ELECTRICAL PLANS

- E-1 ELECTRICAL PLANS & DETAILS
- E-2 ELECTRICAL RISER DIAGRAM
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MISCELLANEOUS DETAILS

- D-1 SEWER DETAILS (1)
- D-2 SEWER DETAILS (2)
- D-3 LIFT STATION DETAILS
- D-4 WATER LINE DETAILS (1)
- D-5 WATER LINE DETAILS (2)
- D-6 WATER LINE DETAILS (3)
- D-7 CHAIN LINK FENCE DETAILS

TRAFFIC

- T-1 SIGN FACE DETAILS
- T-2 TRAFFIC CONTROL

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TAOS PUEBLO, NM
TAOS PUEBLO
WATER & WASTEWATER EXPANSION
COVER SHEET



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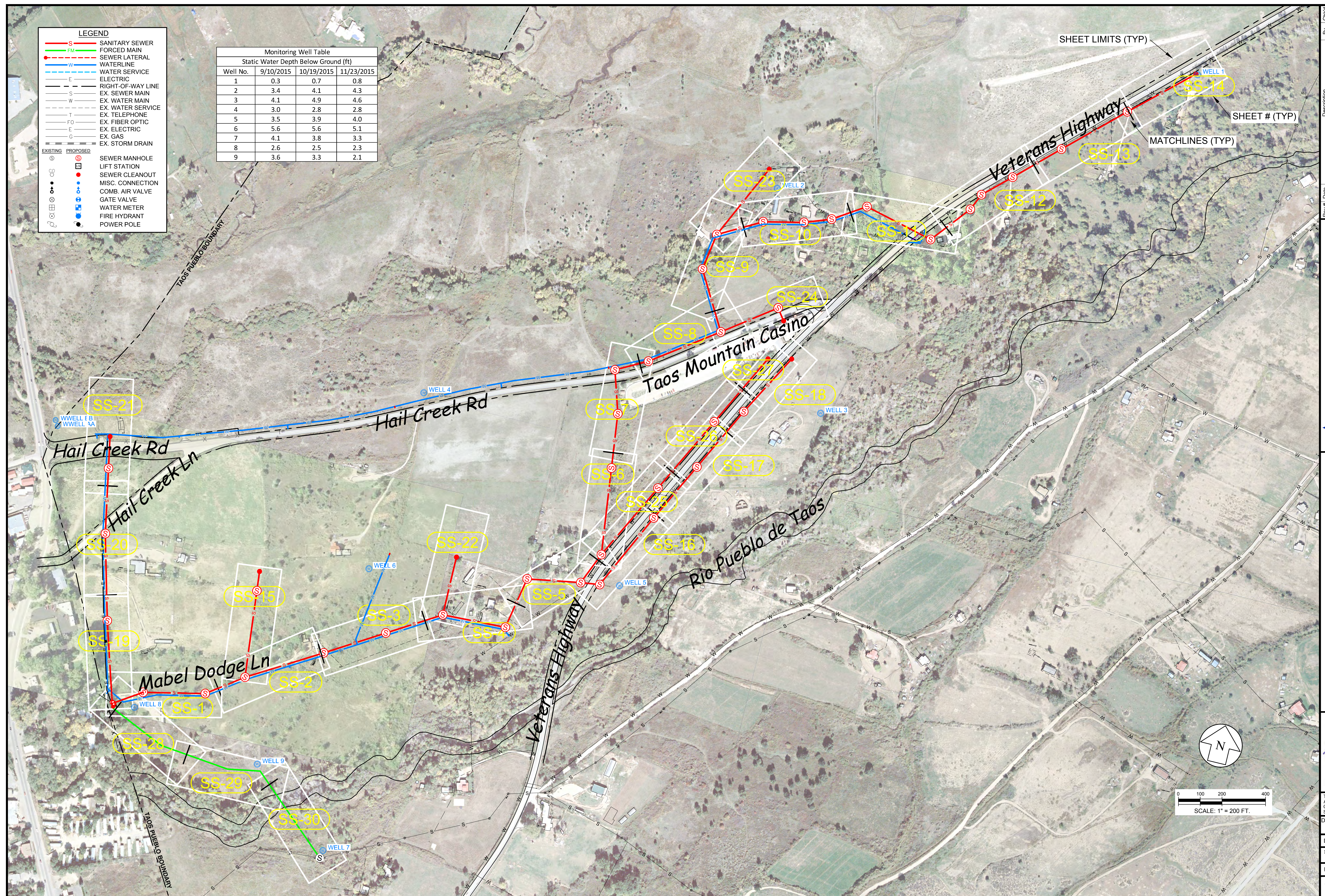
Designed	Drawn	Checked
JAH	BE	ECK
Date:	1/4/2016	
Scale:	Horiz: AS SHOWN Vert: N/A	
Project No:	6223190	
Sheet:	G-1	

LEGEND

- S SANITARY SEWER
- FM FORCED MAIN
- SL SEWER LATERAL
- W WATERLINE
- WS WATER SERVICE
- E ELECTRIC
- ROW RIGHT-OF-WAY LINE
- EX-SM EX. SEWER MAIN
- EX-WM EX. WATER MAIN
- EX-WS EX. WATER SERVICE
- EX-T EX. TELEPHONE
- EX-FO EX. FIBER OPTIC
- EX-E EX. ELECTRIC
- EX-G EX. GAS
- EX-SD EX. STORM DRAIN
- SEWER MANHOLE
- LIFT STATION
- SEWER CLEANOUT
- MISC. CONNECTION
- COMB. AIR VALVE
- GATE VALVE
- WATER METER
- FIRE HYDRANT
- POWER POLE

EXISTING PROPOSED

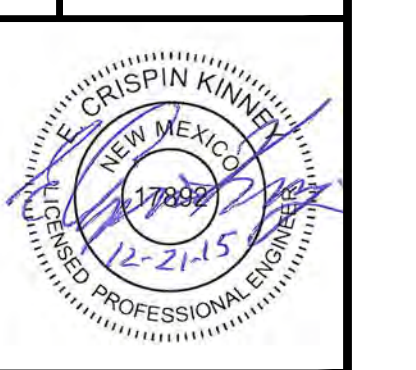
Monitoring Well Table			
Static Water Depth Below Ground (ft)			
Well No.	9/10/2015	10/19/2015	11/23/2015
1	0.3	0.7	0.8
2	3.4	4.1	4.3
3	4.1	4.9	4.6
4	3.0	2.8	2.8
5	3.5	3.9	4.0
6	5.6	5.6	5.1
7	4.1	3.8	3.3
8	2.6	2.5	2.3
9	3.6	3.3	2.1



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TAOS PUEBLO, NM
TAOS PUEBLO
WATER & WASTEWATER EXPANSION
SEWER LINE
KEY MAP



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JAH	BE	ECK

Date: 1/4/2016

Scale: Horiz. 1" = 200 FT
Vert.:

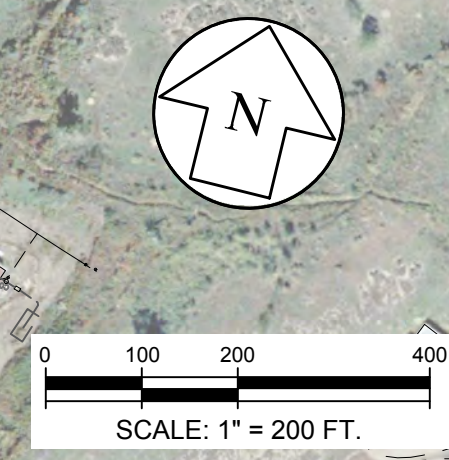
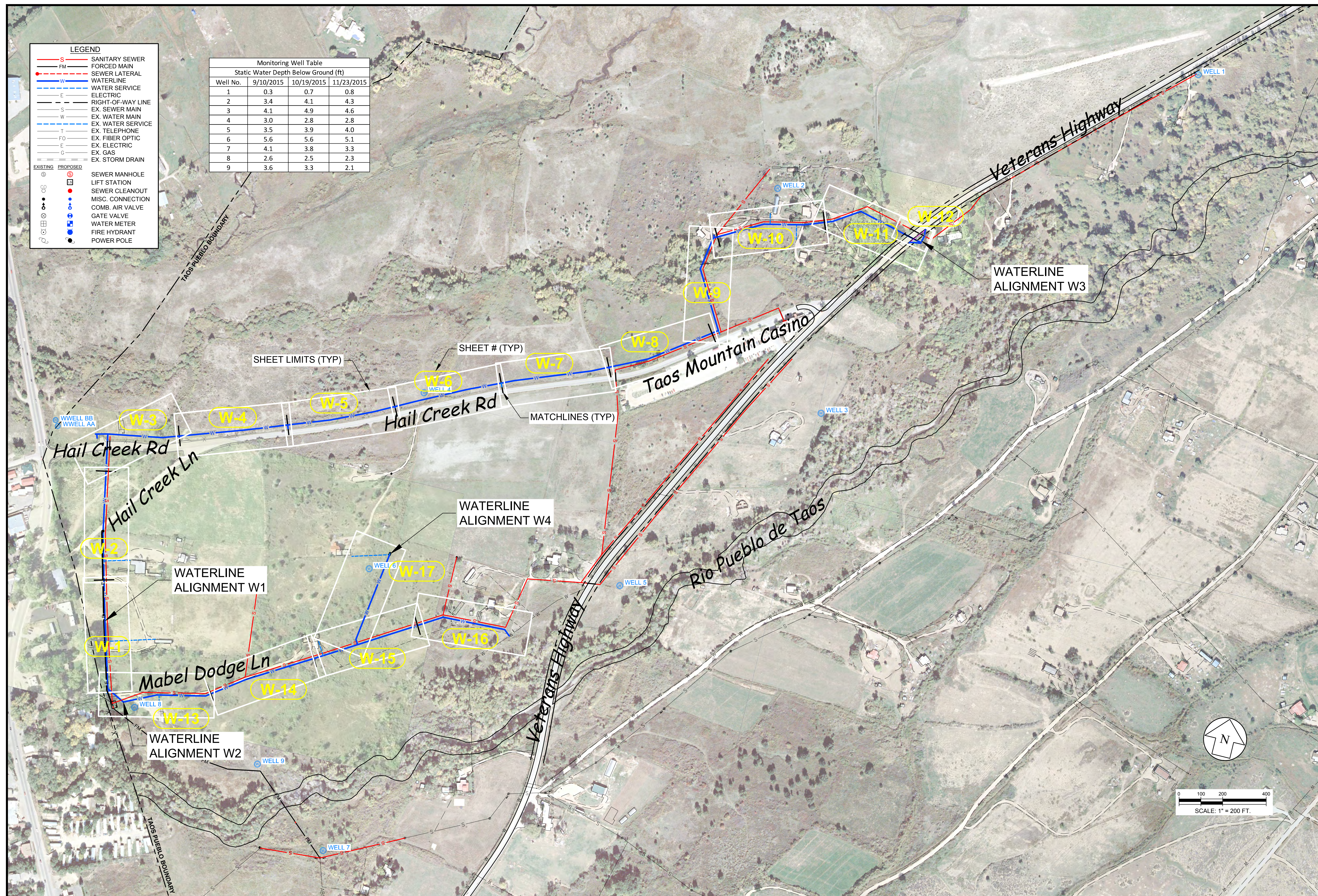
Project No: 6223190
Sheet: G-3

LEGEND

S	SANITARY SEWER
FM	FORCED MAIN
SL	SEWER LATERAL
W	WATERLINE
WS	WATER SERVICE
E	ELECTRIC
RL	RIGHT-OF-WAY LINE
EX-S	EX. SEWER MAIN
EX-W	EX. WATER MAIN
EX-WS	EX. WATER SERVICE
EX-T	EX. TELEPHONE
EX-FO	EX. FIBER OPTIC
EX-E	EX. ELECTRIC
EX-G	EX. GAS
EX-C	EX. STORM DRAIN
SM	SEWER MANHOLE
LS	LIFT STATION
SC	SEWER CLEANOUT
MC	MISC. CONNECTION
CAV	COMB. AIR VALVE
WV	WATER VALVE
WM	WATER METER
FP	FIRE HYDRANT
PP	POWER POLE

Monitoring Well Table

Well No.	9/10/2015	10/19/2015	11/23/2015
1	0.3	0.7	0.8
2	3.4	4.1	4.3
3	4.1	4.9	4.6
4	3.0	2.8	2.8
5	3.5	3.9	4.0
6	5.6	5.6	5.1
7	4.1	3.8	3.3
8	2.6	2.5	2.3
9	3.6	3.3	2.1



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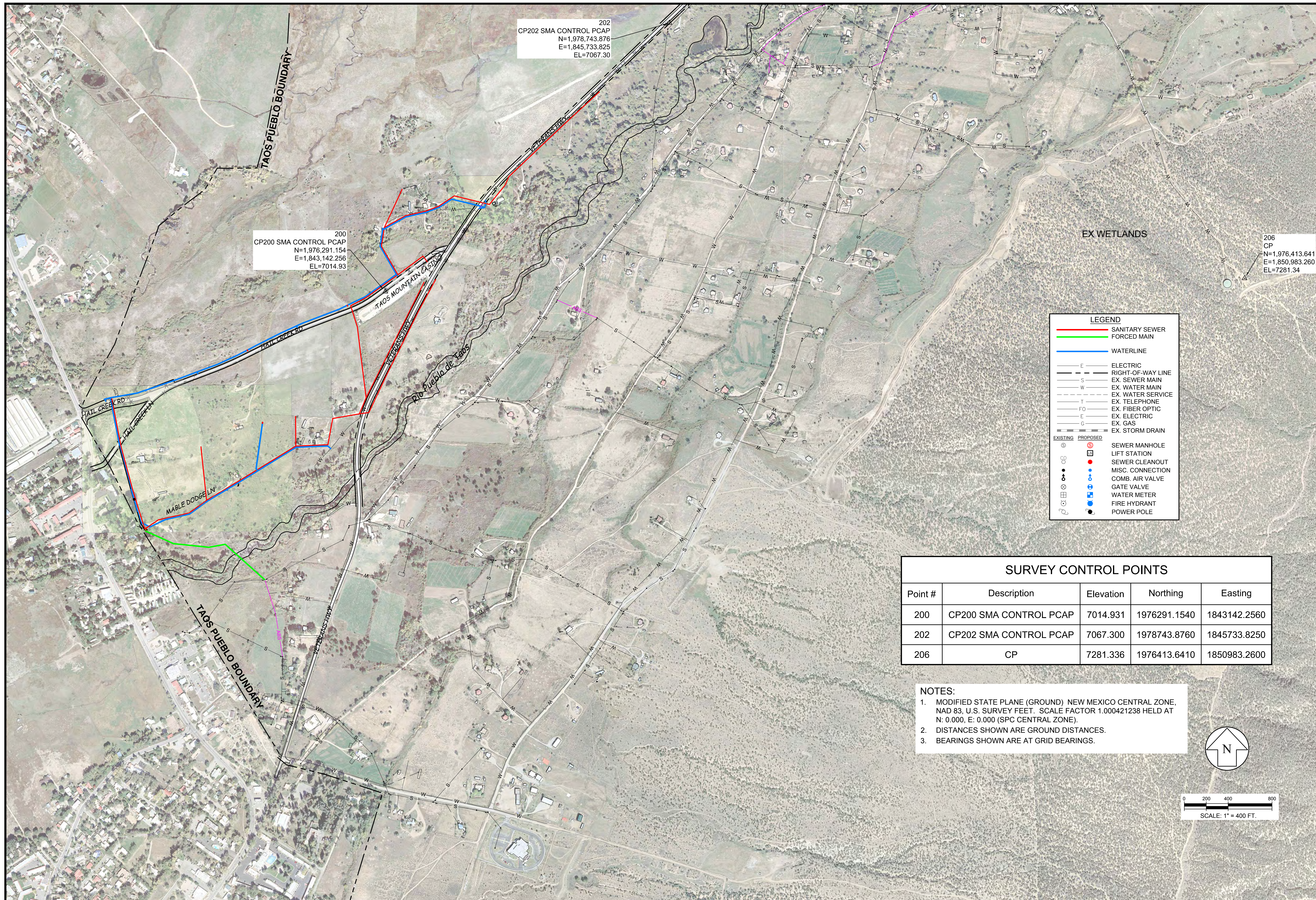
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TAOS PUEBLO, NM
**TAOS PUEBLO
WATER & WASTEWATER EXPANSION
WATERLINE
KEY MAP**



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JAH	BE	ECK
Date:	1/4/2016	
Scale:	Horiz: 1" = 200 FT Vert:	
Project No:	6223190	
Sheet:	G-4	



LEGEND

— SANITARY SEWER FORCED MAIN
— WATERLINE
— WATERLINE
 — E — ELECTRIC
 — S — RIGHT-OF-WAY LINE
 — EX — EX. SEWER MAIN
 — W — EX. WATER MAIN
 — EX — EX. WATER SERVICE
 — T — EX. TELEPHONE
 — FO — EX. FIBER OPTIC
 — E — EX. ELECTRIC
 — G — EX. GAS
 — EX — EX. STORM DRAIN

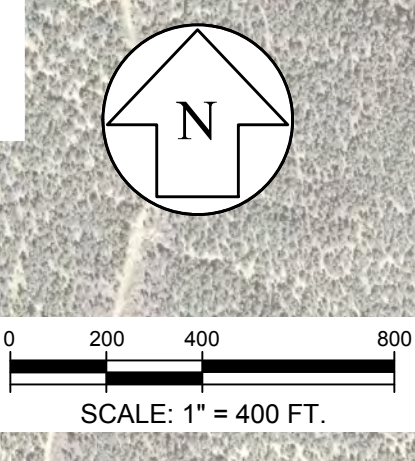
EXISTING
 ○ SEWER MANHOLE
 □ LIFT STATION
 □ SEWER CLEANOUT
 ○ MISC. CONNECTION
 ○ COMB. AIR VALVE
 ○ GATE VALVE
 ○ WATER METER
 ○ FIRE HYDRANT
 ○ POWER POLE

PROPOSED
 ○ SEWER MANHOLE
 □ LIFT STATION
 □ SEWER CLEANOUT
 ○ MISC. CONNECTION
 ○ COMB. AIR VALVE
 ○ GATE VALVE
 ○ WATER METER
 ○ FIRE HYDRANT
 ○ POWER POLE

Point #	Description	Elevation	Northing	Easting
200	CP200 SMA CONTROL PCAP	7014.931	1976291.1540	1843142.2560
202	CP202 SMA CONTROL PCAP	7067.300	1978743.8760	1845733.8250
206	CP	7281.336	1976413.6410	1850983.2600

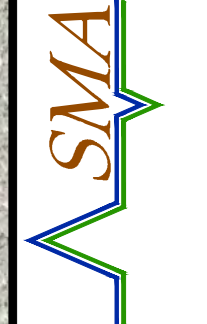
NOTES:

1. MODIFIED STATE PLANE (GROUND) NEW MEXICO CENTRAL ZONE, NAD 83, U.S. SURVEY FEET. SCALE FACTOR 1.000421238 HELD AT N: 0.000, E: 0.000 (SPC CENTRAL ZONE).
2. DISTANCES SHOWN ARE GROUND DISTANCES.
3. BEARINGS SHOWN ARE AT GRID BEARINGS.



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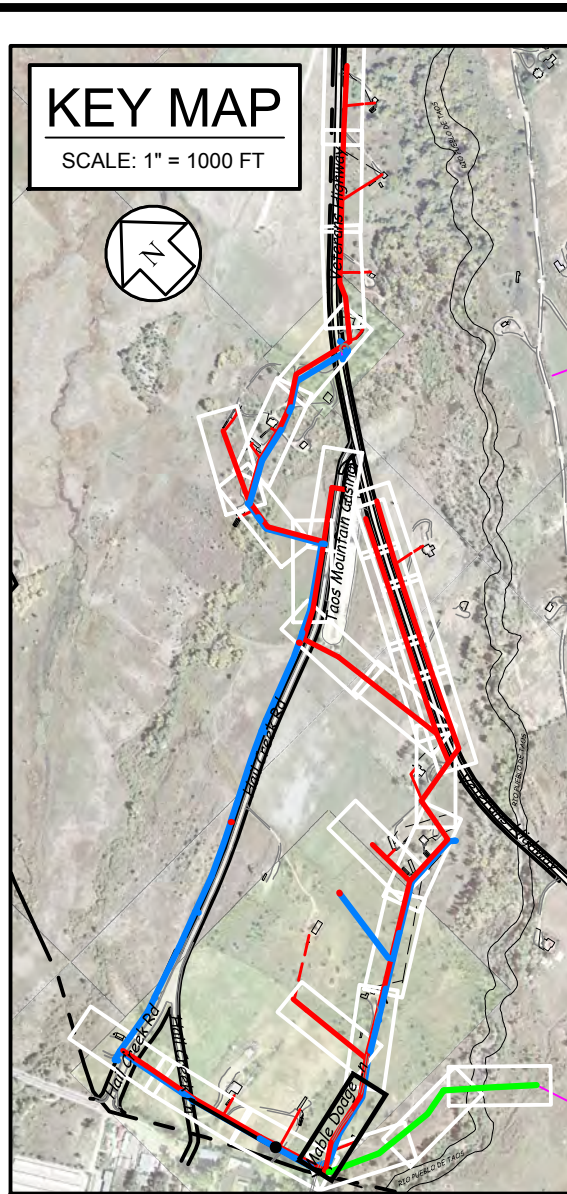
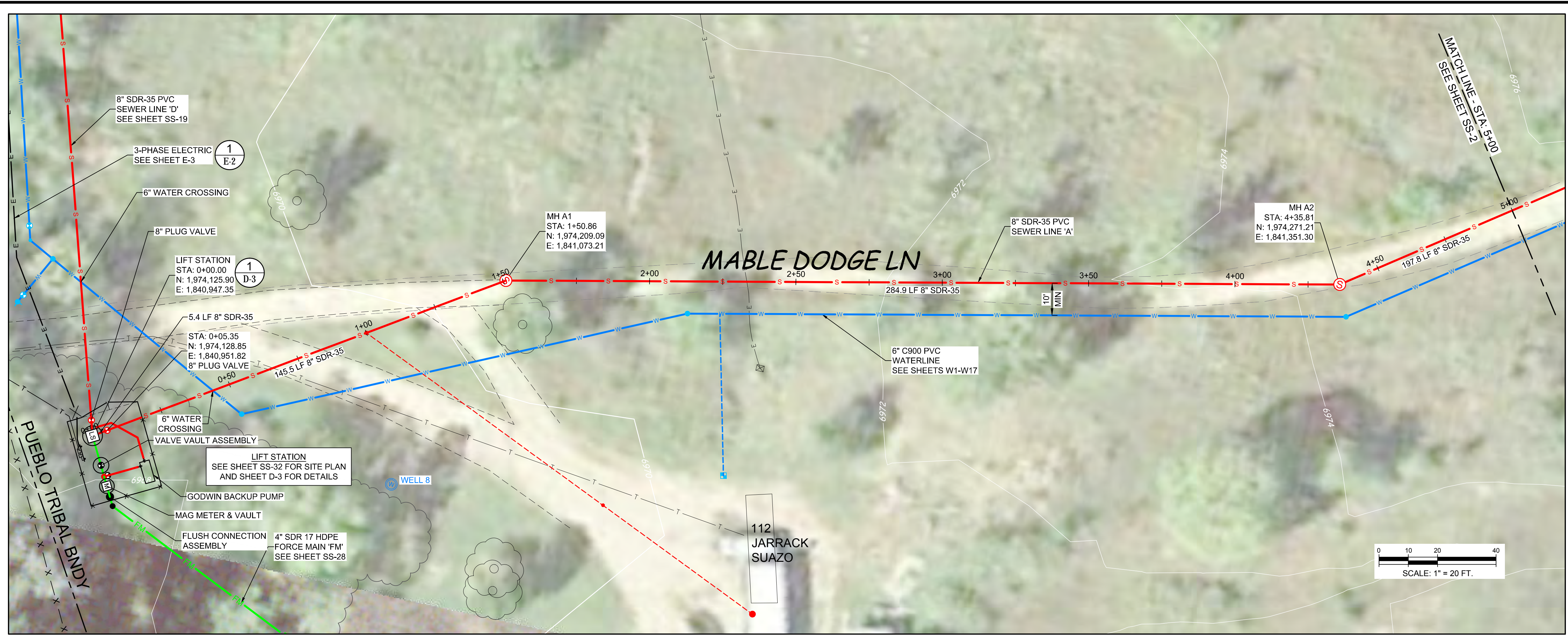


TAOS PUEBLO, NM
**TAOS PUEBLO
 WATER & WASTEWATER EXPANSION
 SURVEY CONTROL**



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Date: 1/4/2016		
Scale: Horiz: 1" = 400 FT Vert: N/A		
Project No: 6223190		
Sheet: G-5		



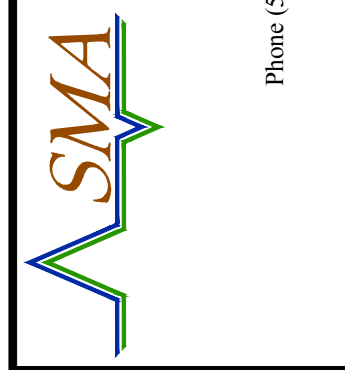
LEGEND

	SANITARY SEWER
	FORCED MAIN
	SEWER LATERAL
	WATERLINE
	ELECTRIC
	RIGHT-OF-WAY LINE
	EX. SEWER MAIN
	EX. WATER MAIN
	EX. TELEPHONE
	EX. FIBER OPTIC
	EX. ELECTRIC
	EX. GAS
	EX. STORM DRAIN

	LIFT STATION
	MISC. CONNECTION
	COMB. AIR VALVE
	GATE VALVE
	WATER METER
	FIRE HYDRANT
	POWER POLE

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TAOS PUEBLO, NM
TAOS PUEBLO WATER & WASTEWATER EXPANSION
 SEWER PLAN & PROFILE
 LINE A - STA 0+00 TO 5+00



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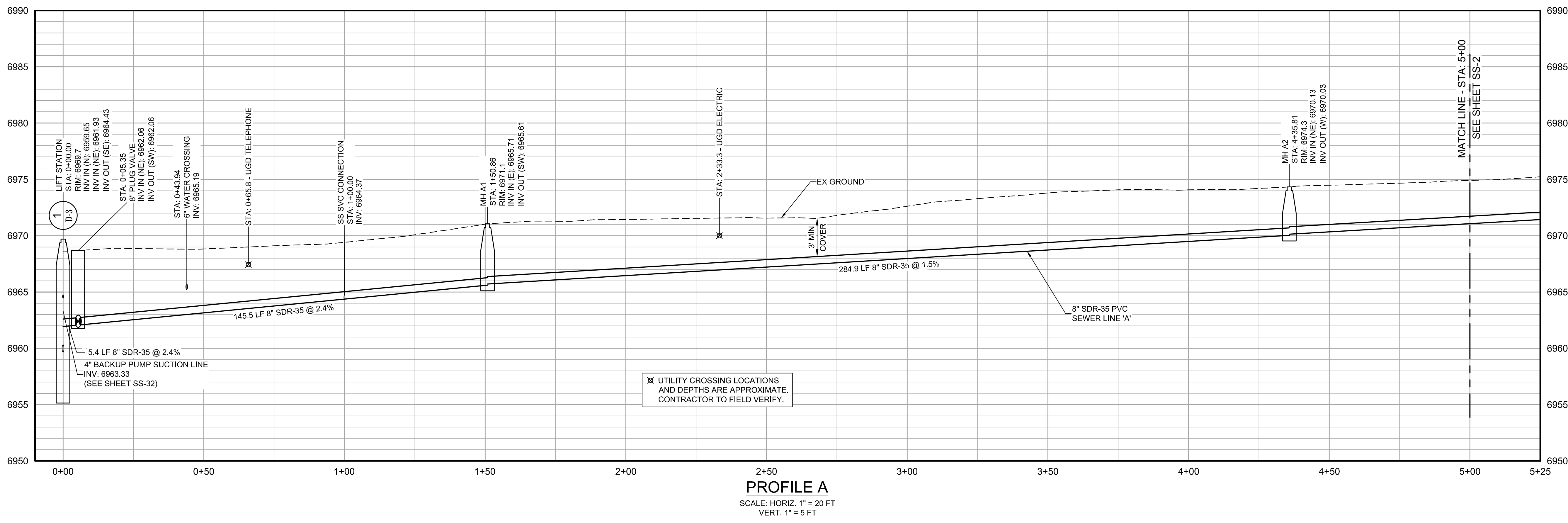
Designed: JAH
 Drawn: BE
 Checked: ECK

Date: 1/4/2016

Scale: Horiz. 1" = 20 FT
 Vert. 1" = 5 FT

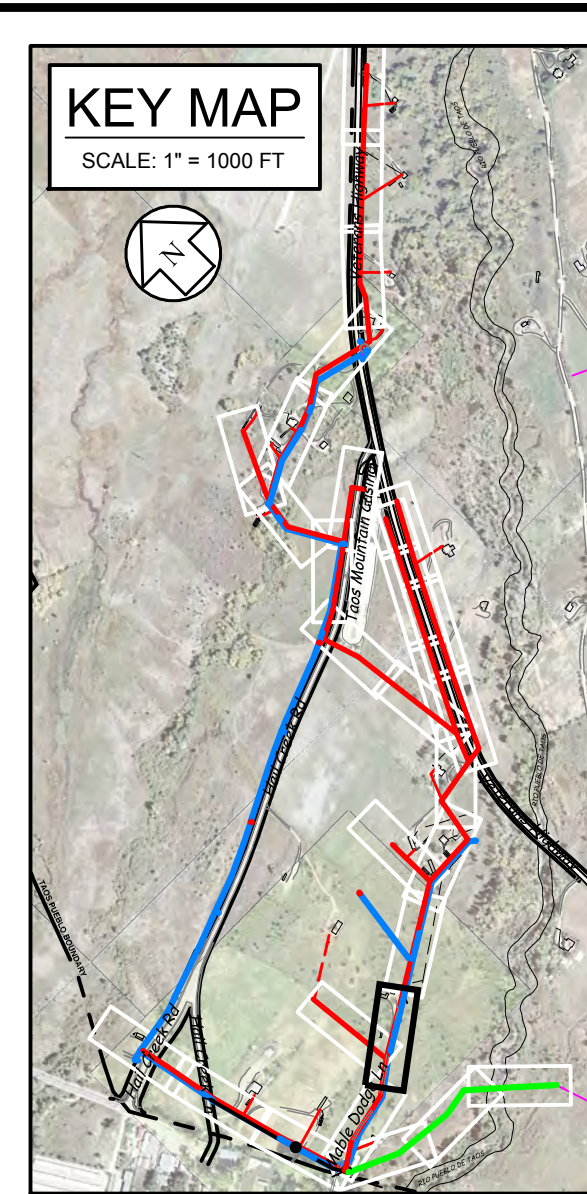
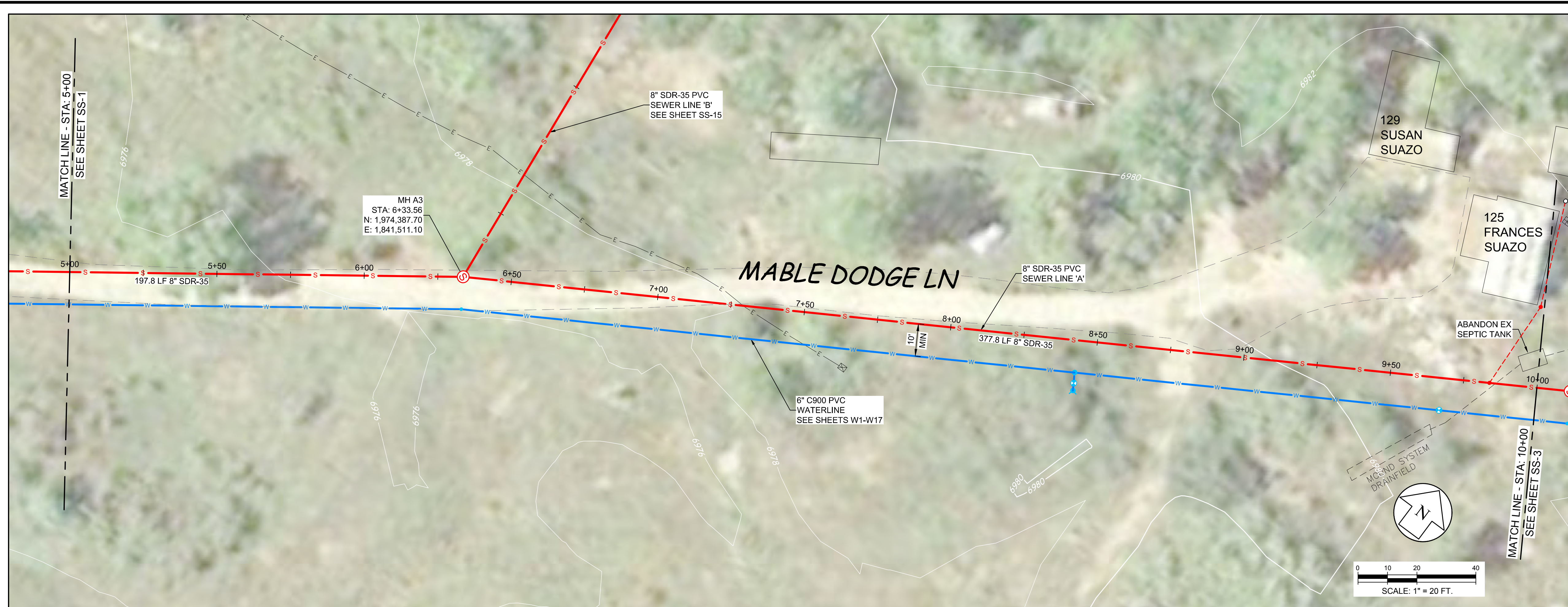
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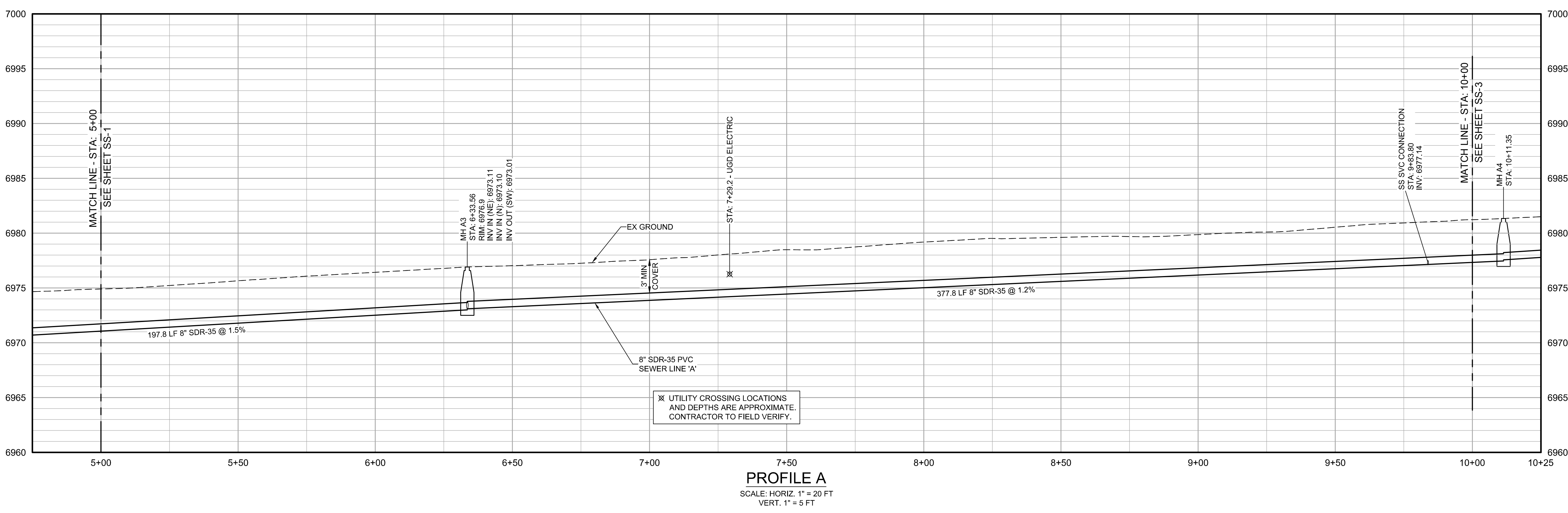
PROFILE A
 SCALE: HORIZ. 1" = 20 FT
 VERT. 1" = 5 FT

⊗ UTILITY CROSSING LOCATIONS AND DEPTHS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY.



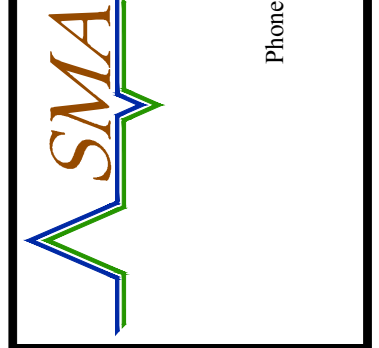
LEGEND

	SANITARY SEWER
	FORCED MAIN
	SEWER LATERAL
	WATERLINE
	WATER SERVICE
	ELECTRIC
	RIGHT-OF-WAY LINE
	EX. SEWER MAIN
	EX. WATER MAIN
	EX. WATER SERVICE
	EX. TELEPHONE
	EX. FIBER OPTIC
	EX. ELECTRIC
	EX. GAS
	EX. STORM DRAIN
	SEWER MANHOLE
	LIFT STATION
	SEWER CLEANOUT
	MISC. CONNECTION
	COMB. AIR VALVE
	GATE VALVE
	WATER METER
	FIRE HYDRANT
	POWER POLE



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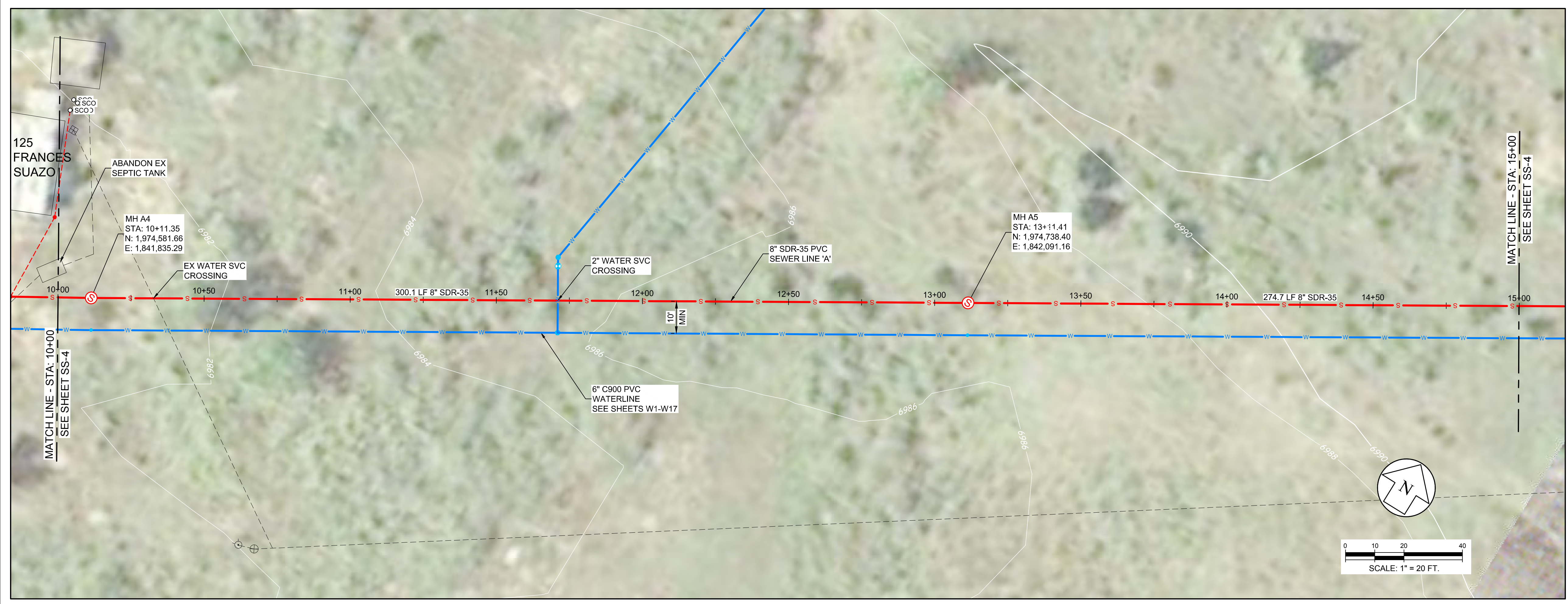


TAOS PUEBLO, NM
**TAOS PUEBLO
 WATER & WASTEWATER EXPANSION
 SEWER PLAN & PROFILE
 LINE A - STA 5+00 TO 10+00**



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Date:	1/4/2016	
Scale:	Horiz. 1" = 20 FT Vert. 1" = 5 FT	
Project No:	6223190	
Sheet:	SS-2	



KEY MAP
SCALE: 1" = 1000 FT

LEGEND

- S SANITARY SEWER
- FM FORCED MAIN
- SW SEWER LATERAL
- W WATERLINE
- WS WATER SERVICE
- E ELECTRIC
- R/W RIGHT-OF-WAY LINE
- EX. SEWER MAIN
- EX. WATER MAIN
- EX. WATER SERVICE
- EX. TELEPHONE
- EX. FIBER OPTIC
- EX. ELECTRIC
- EX. GAS
- EX. STORM DRAIN

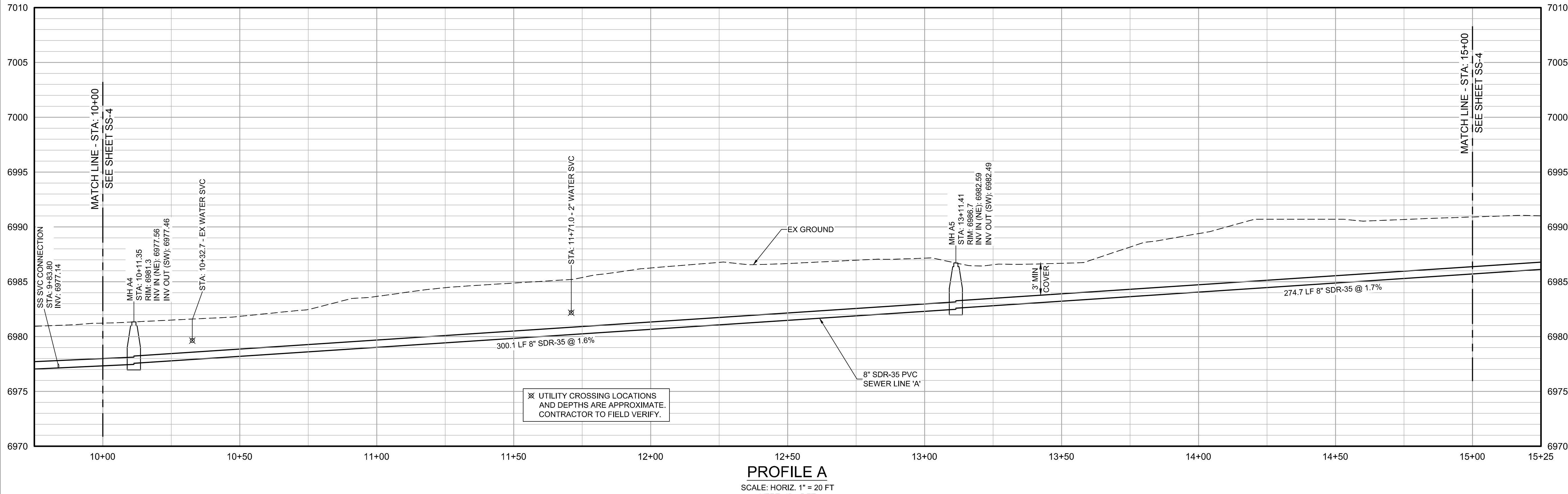
EXISTING
 SEWER MANHOLE
 LIFT STATION
 SEWER CLEANOUT
 MISC. CONNECTION
 COMB. AIR VALVE
 GATE VALVE
 WATER METER
 FIRE HYDRANT
 POWER POLE

PROPOSED
 SEWER MANHOLE
 LIFT STATION
 SEWER CLEANOUT
 MISC. CONNECTION
 COMB. AIR VALVE
 GATE VALVE
 WATER METER
 FIRE HYDRANT
 POWER POLE

SCALE: 1" = 20 FT.

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TAOS PUEBLO, NM

**TAOS PUEBLO
 WATER & WASTEWATER EXPANSION
 SEWER PLAN & PROFILE
 LINE A - STA 10+00 TO 15+00**

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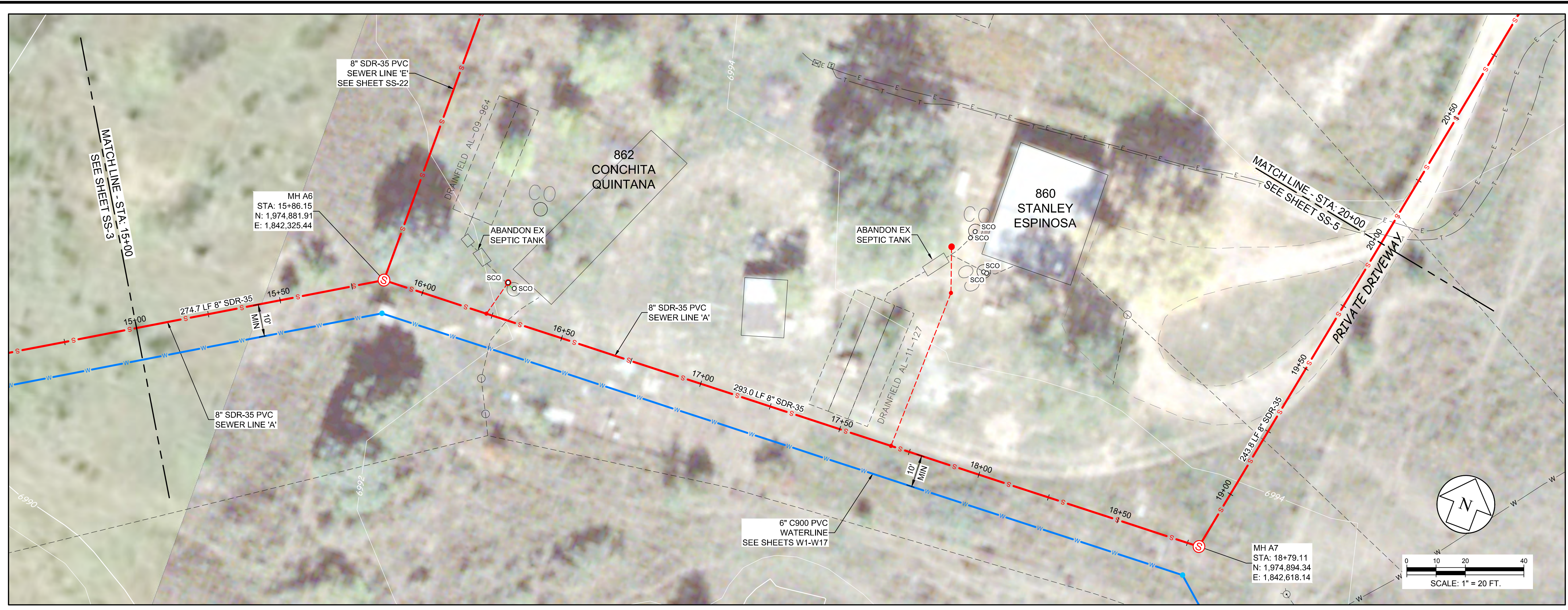
Designed JAH	Drawn BE	Checked ECK
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Date: 1/4/2016

Scale: Horiz. 1" = 20 FT
 Vert. 1" = 5 FT

Project No: 6223190

Sheet: **SS-3**



KEY MAP
SCALE: 1" = 1000 FT

LEGEND

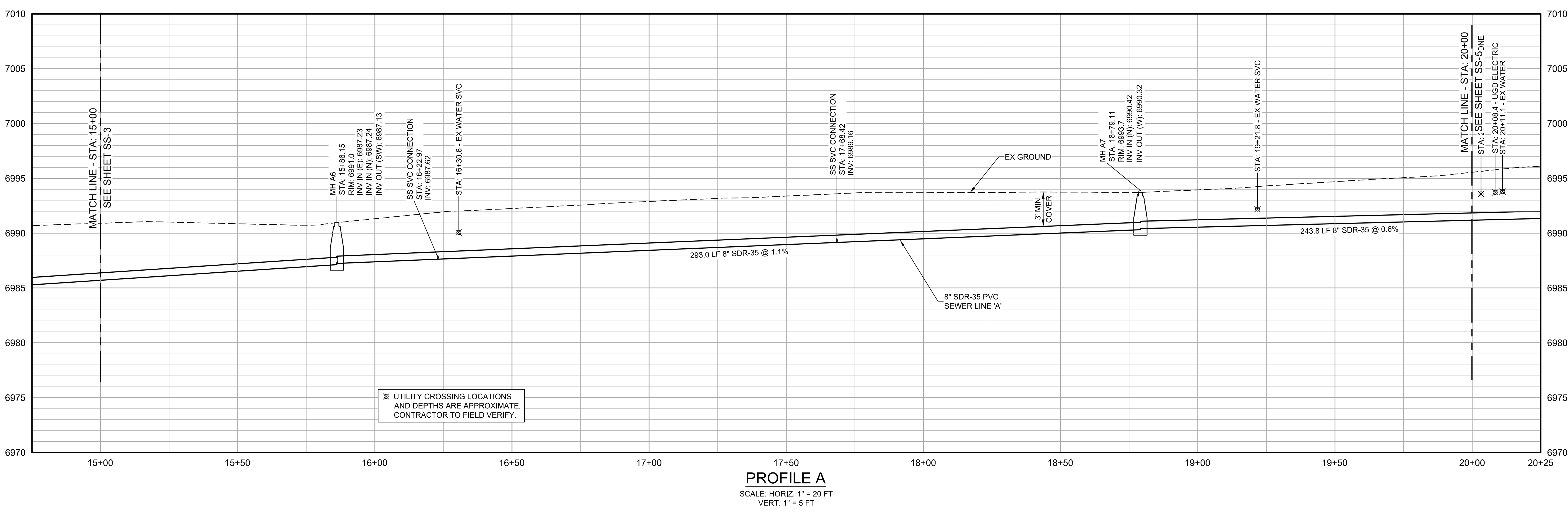
- S SANITARY SEWER
- FM FORCED MAIN
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- W WATERLINE
- WS WATER SERVICE
- E ELECTRIC
- ROW RIGHT-OF-WAY LINE
- EX EX. SEWER MAIN
- EX EX. WATER MAIN
- EX EX. WATER SERVICE
- EX EX. TELEPHONE
- EX EX. FIBER OPTIC
- EX EX. ELECTRIC
- EX EX. GAS
- EX EX. STORM DRAIN

EXISTING (various symbols for manholes, lift stations, etc.)

PROPOSED (various symbols for manholes, lift stations, etc.)

SEWER MANHOLE
LIFT STATION
SEWER CLEANOUT
MISC. CONNECTION
COMB. AIR VALVE
GATE VALVE
WATER METER
FIRE HYDRANT
POWER POLE

SCALE: 1" = 20 FT.



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SEWER PLAN & PROFILE
LINE A - STA 10+00 TO 20+00**

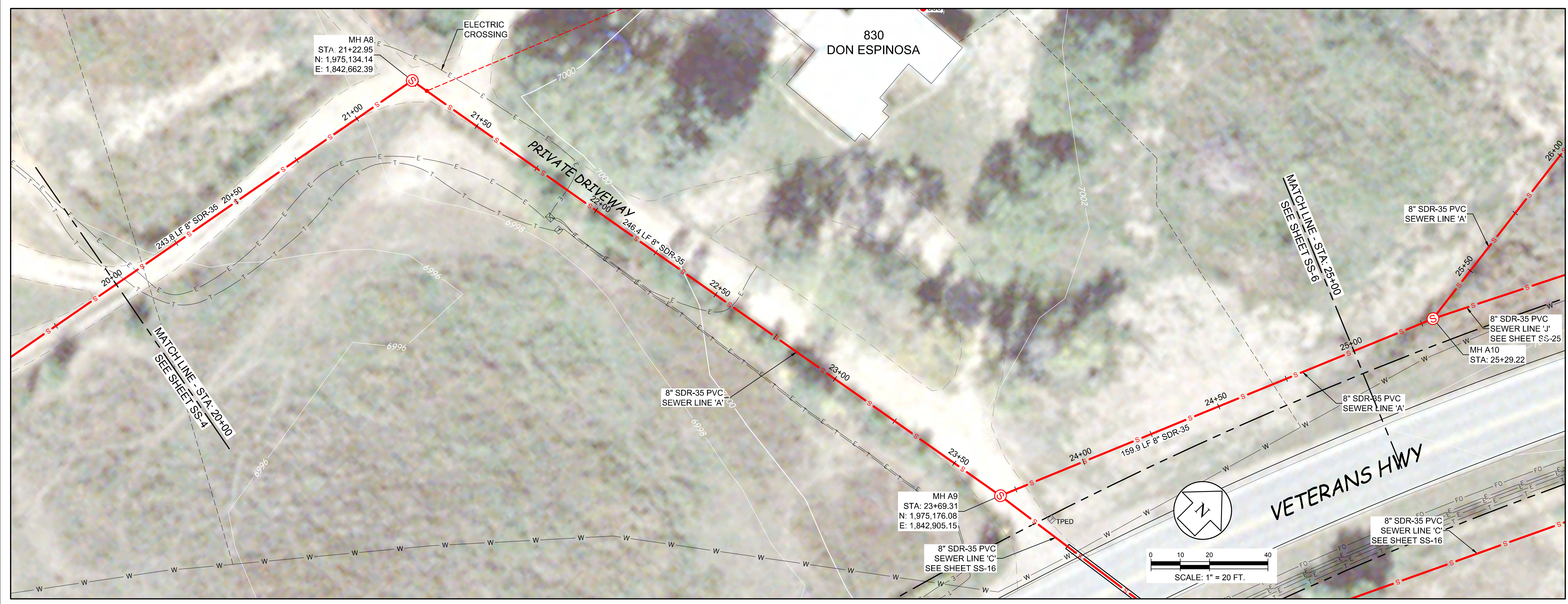
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Designed: JAH
Drawn: BE
Checked: ECK

Date: 1/4/2016

Scale: Horiz. 1" = 20 FT
Vert. 1" = 5 FT

Project No: 6223190
Sheet: **SS-4**



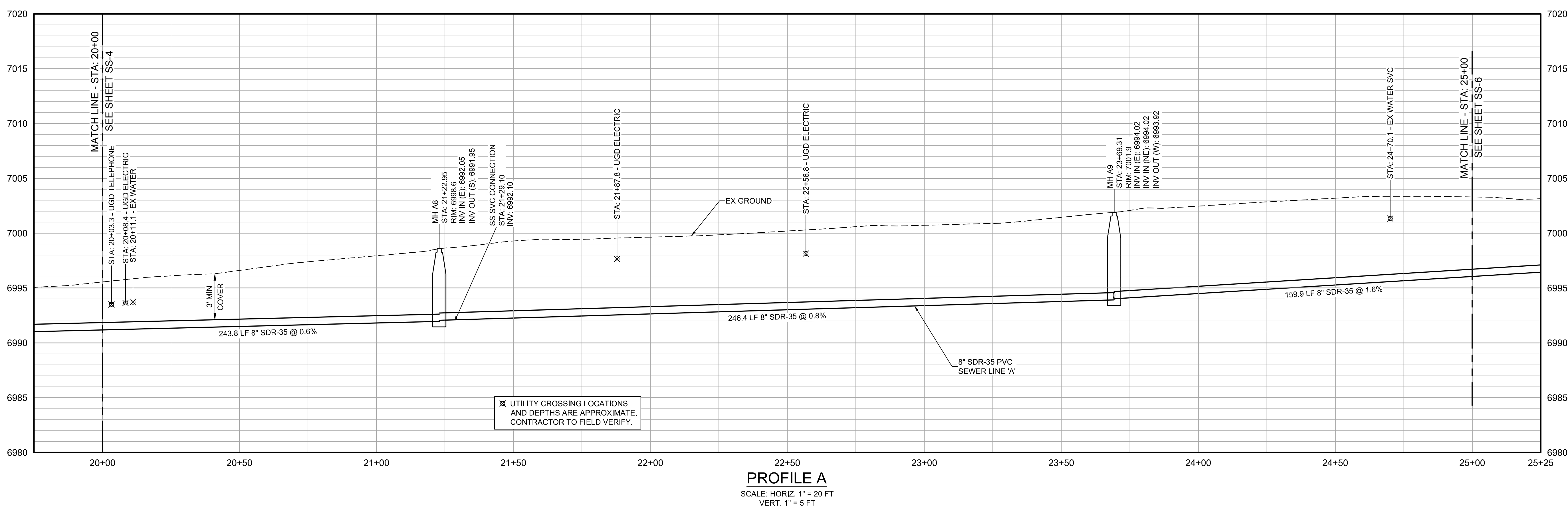
KEY MAP
SCALE: 1" = 1000 FT

LEGEND

- S SANITARY SEWER
- FM FORCED MAIN
- S S SEWER LATERAL
- W WATERLINE
- W WATER SERVICE
- E ELECTRIC
- RIGHT-OF-WAY LINE
- EX EX. SEWER MAIN
- W EX. WATER MAIN
- W EX. WATER SERVICE
- T EX. TELEPHONE
- FO EX. FIBER OPTIC
- E EX. ELECTRIC
- G EX. GAS
- EX. STORM DRAIN

EXISTING PROPOSED

- SEWER MANHOLE
- LIFT STATION
- SEWER CLEANOUT
- MISC. CONNECTION
- COMB. AIR VALVE
- GATE VALVE
- WATER METER
- FIRE HYDRANT
- POWER POLE



By	CHK
Rev #	Date
Description	

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LINE A - STA 20+00 TO 25+00**

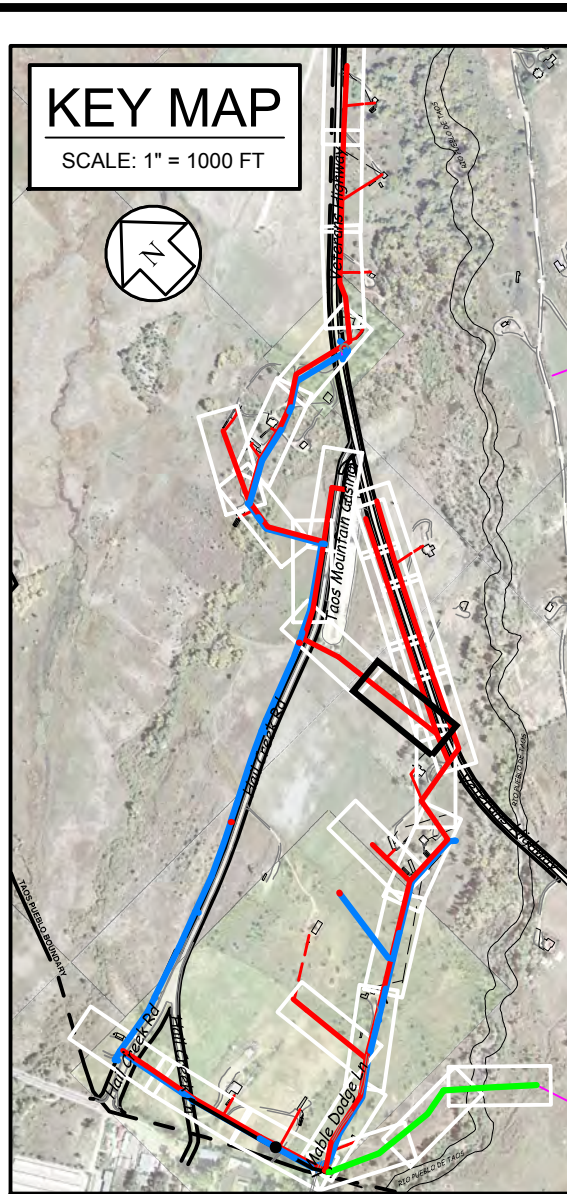
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Scale: Horiz. 1" = 20 FT
Vert. 1" = 5 FT

Project No: 6223190
Sheet: **SS-5**

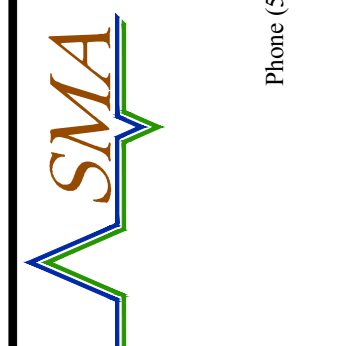


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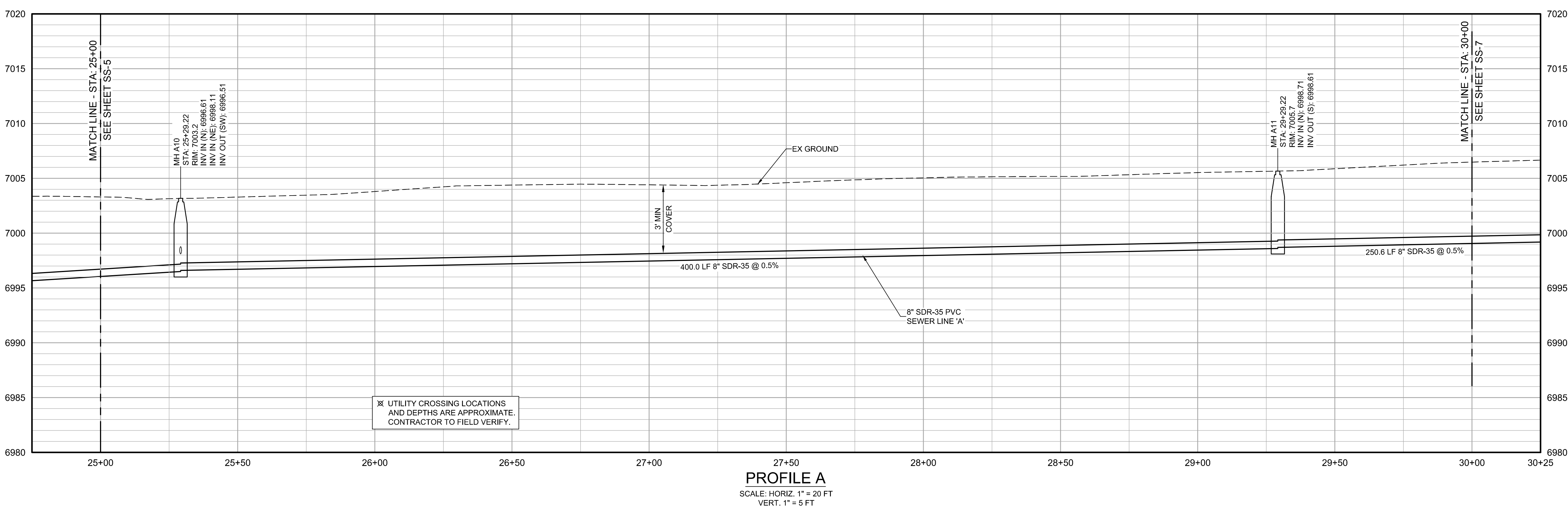
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—FM—	FORCED MAIN
—SL—	SEWER LATERAL
—W—	WATERLINE
—WS—	WATER SERVICE
—E—	ELECTRIC
—R—	RIGHT-OF-WAY LINE
—S—	EX. SEWER MAIN
—W—	EX. WATER MAIN
—WS—	EX. WATER SERVICE
—T—	EX. TELEPHONE
—FO—	EX. FIBER OPTIC
—E—	EX. ELECTRIC
—G—	EX. GAS
—SD—	EX. STORM DRAIN
⊙	SEWER MANHOLE
⊕	LIFT STATION
⊖	SEWER CLEANOUT
⊗	MISC. CONNECTION
⊘	COMB. AIR VALVE
⊙	GATE VALVE
⊙	WATER METER
⊙	FIRE HYDRANT
⊙	POWER POLE

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PROFILE A
 SCALE: HORIZ. 1" = 20 FT
 VERT. 1" = 5 FT



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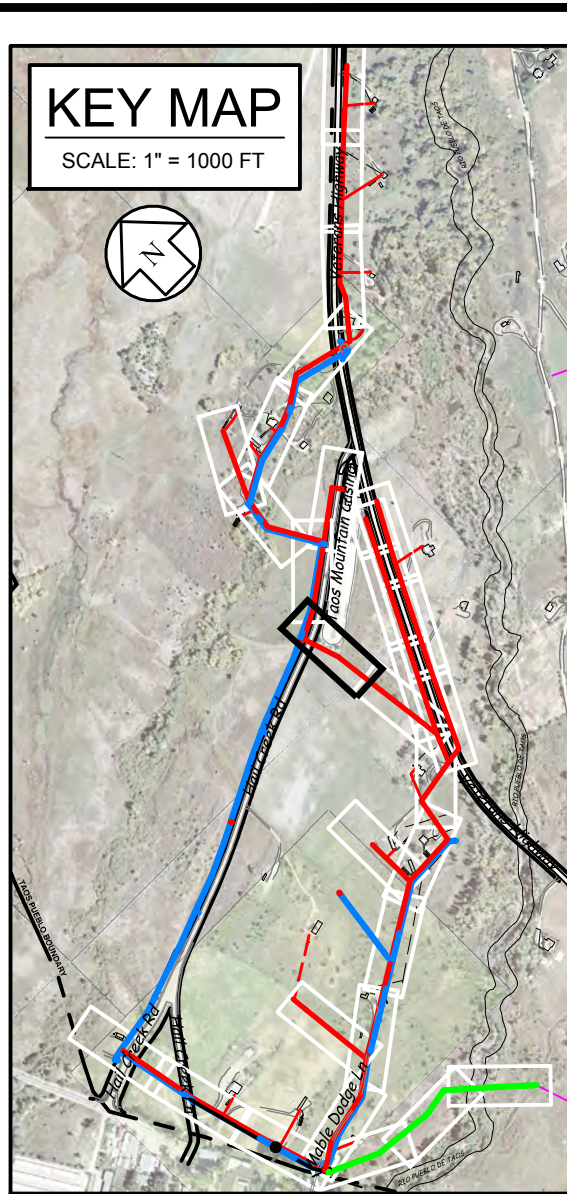
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JAH	BE	ECK

Date: 1/4/2016

Scale: Horiz. 1" = 20 FT
 Vert. 1" = 5 FT

Project No: 6223190

Sheet: **SS-6**

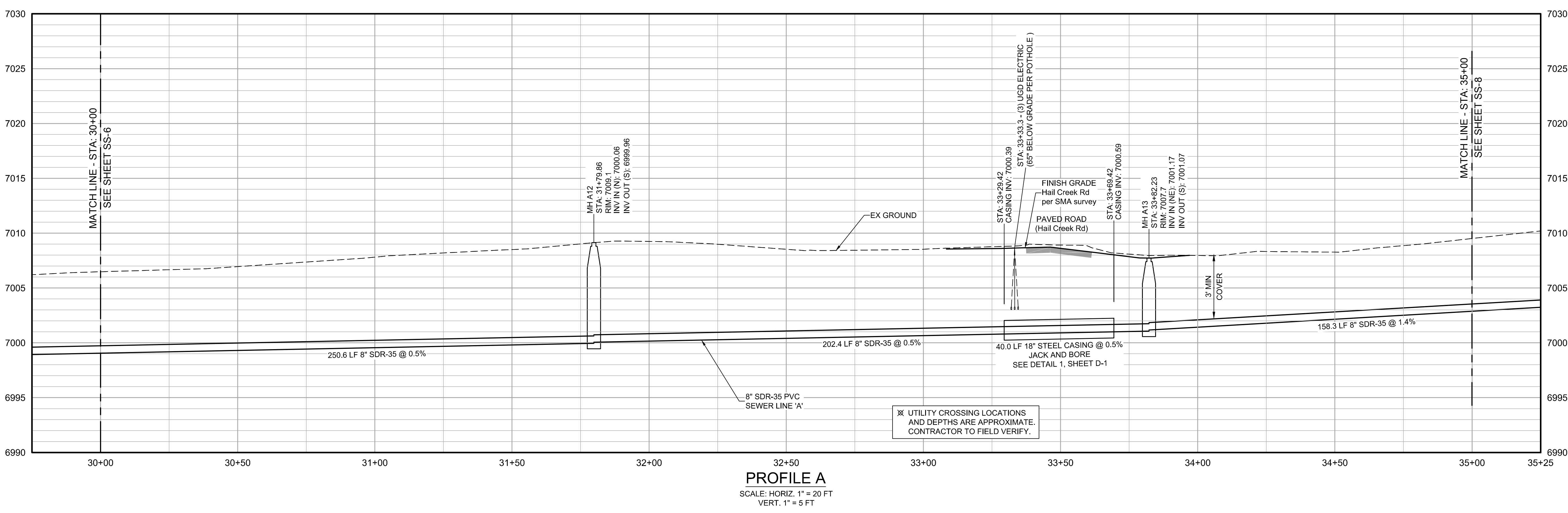
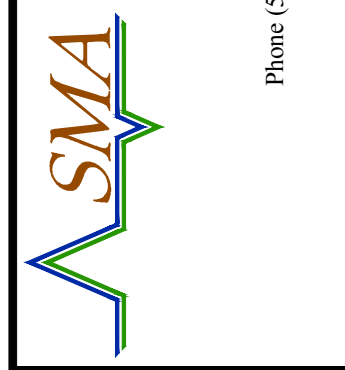


LEGEND

S	SANITARY SEWER
FM	FORCED MAIN
SL	SEWER LATERAL
W	WATERLINE
WS	WATER SERVICE
E	ELECTRIC
FO	RIGHT-OF-WAY LINE
EX S	EX. SEWER MAIN
EX W	EX. WATER MAIN
EX WS	EX. WATER SERVICE
EX T	EX. TELEPHONE
EX FO	EX. FIBER OPTIC
EX E	EX. ELECTRIC
EX G	EX. GAS
EX SD	EX. STORM DRAIN
SM	SEWER MANHOLE
LS	LIFT STATION
SC	SEWER CLEANOUT
MC	MISC. CONNECTION
CA	COMB. AIR VALVE
GV	GATE VALVE
WM	WATER METER
FH	FIRE HYDRANT
PP	POWER POLE

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Scale: Horiz. 1" = 20 FT Vert. 1" = 5 FT		
Project No: 6223190		
Sheet: SS-7		



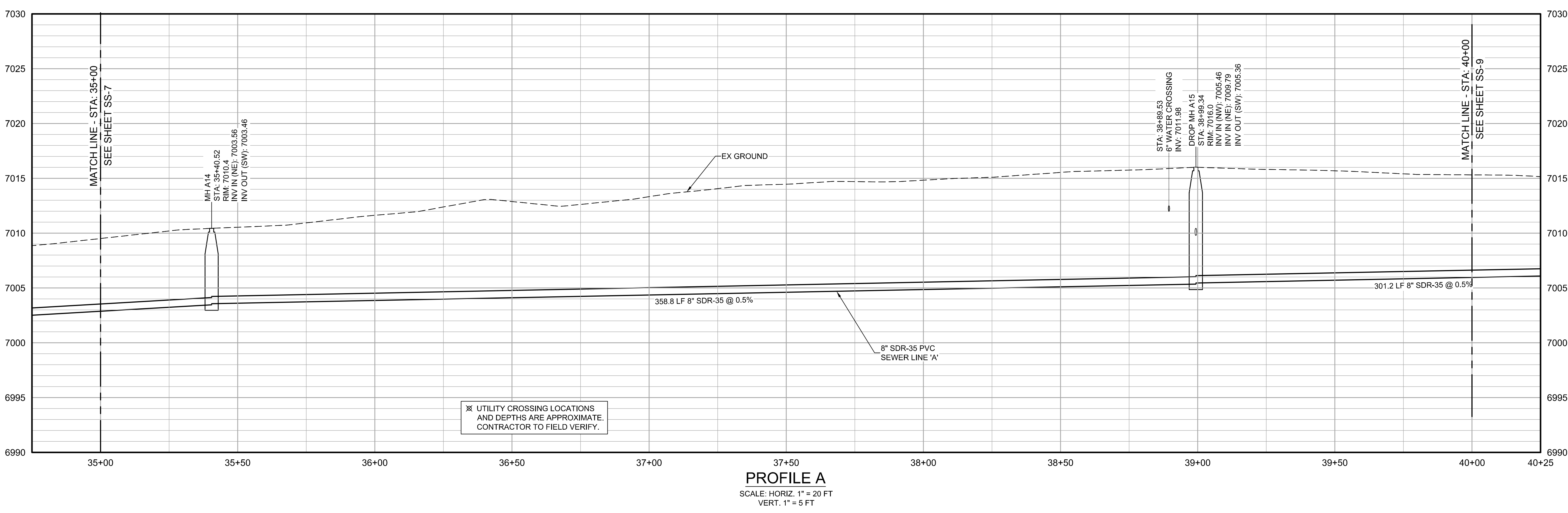
KEY MAP
SCALE: 1" = 1000 FT

LEGEND

- SANITARY SEWER
- FORCED MAIN
- SEWER LATERAL
- WATERLINE
- WATER SERVICE
- ELECTRIC
- RIGHT-OF-WAY LINE
- EX. SEWER MAIN
- EX. WATER MAIN
- EX. WATER SERVICE
- EX. TELEPHONE
- EX. FIBER OPTIC
- EX. ELECTRIC
- EX. GAS
- EX. STORM DRAIN

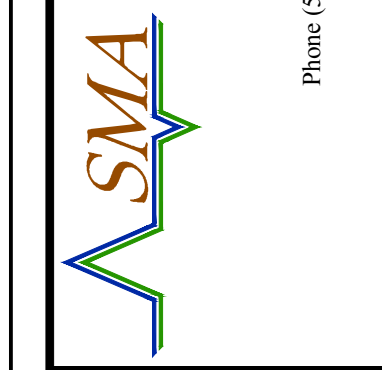
EXISTING (various symbols)
PROPOSED (various symbols)

SCALE: 1" = 20 FT.



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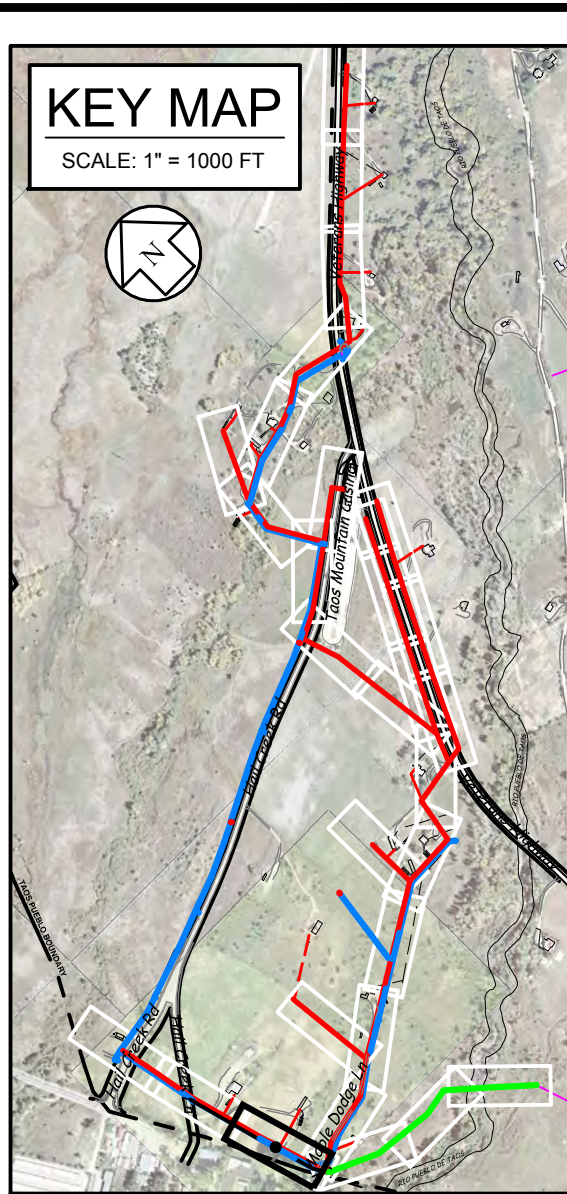
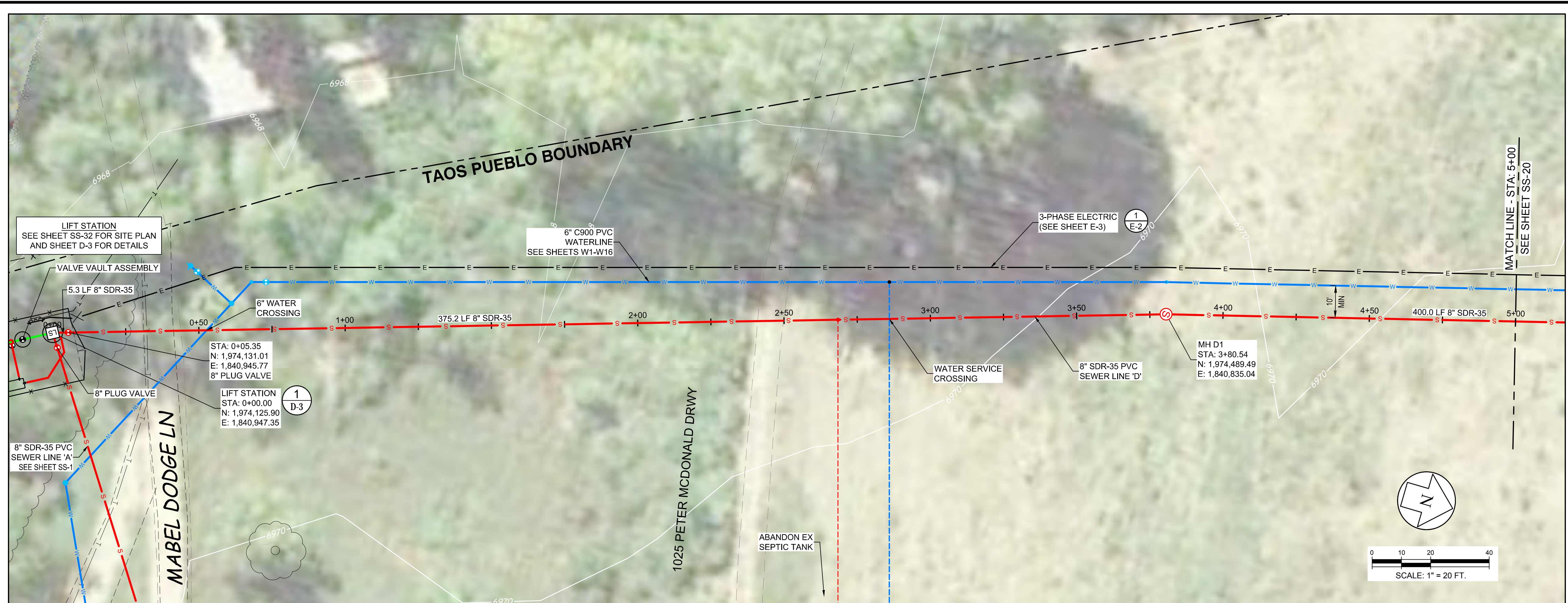


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LINE A - STA 35+00 TO 40+00



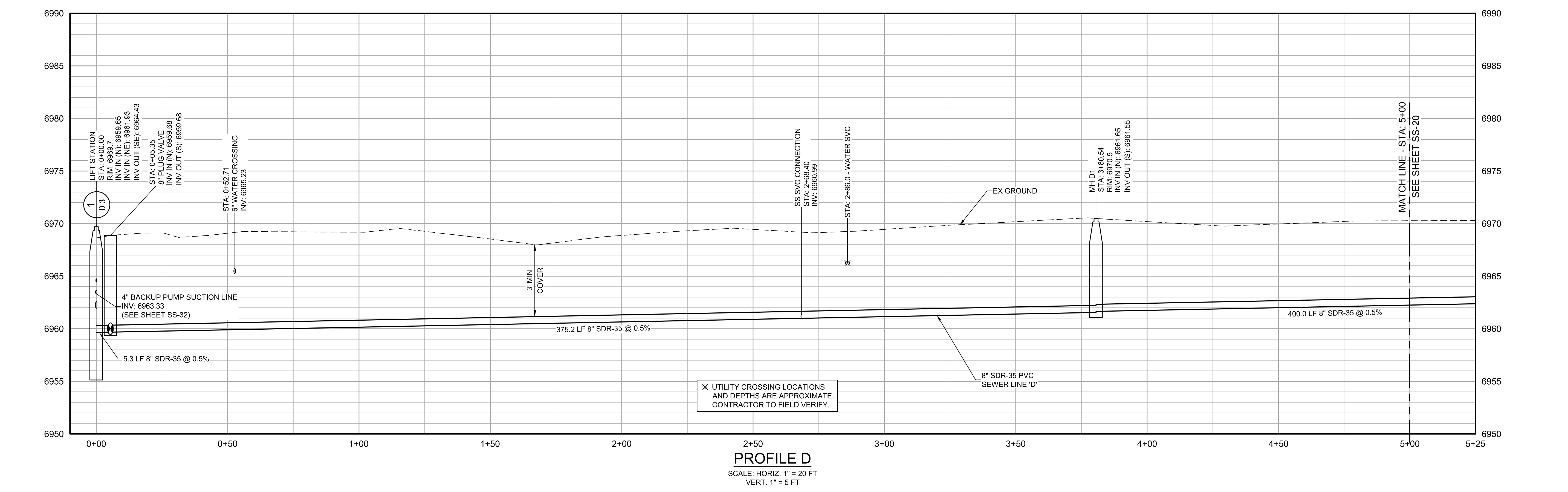
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JAH	BE	ECK
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Project No:	6223190	
Sheet:	SS-8	



LEGEND

	SANITARY SEWER
	FORCED MAIN
	SEWER LATERAL
	WATERLINE
	WATER SERVICE
	ELECTRIC
	RIGHT-OF-WAY LINE
	EX. SEWER MAIN
	EX. WATER MAIN
	EX. WATER SERVICE
	EX. TELEPHONE
	EX. FIBER OPTIC
	EX. ELECTRIC
	EX. GAS
	EX. STORM DRAIN
	SEWER MANHOLE
	LIFT STATION
	SEWER CLEANOUT
	MISC. CONNECTION
	COMB. AIR VALVE
	GATE VALVE
	WATER METER
	FIRE HYDRANT
	POWER POLE



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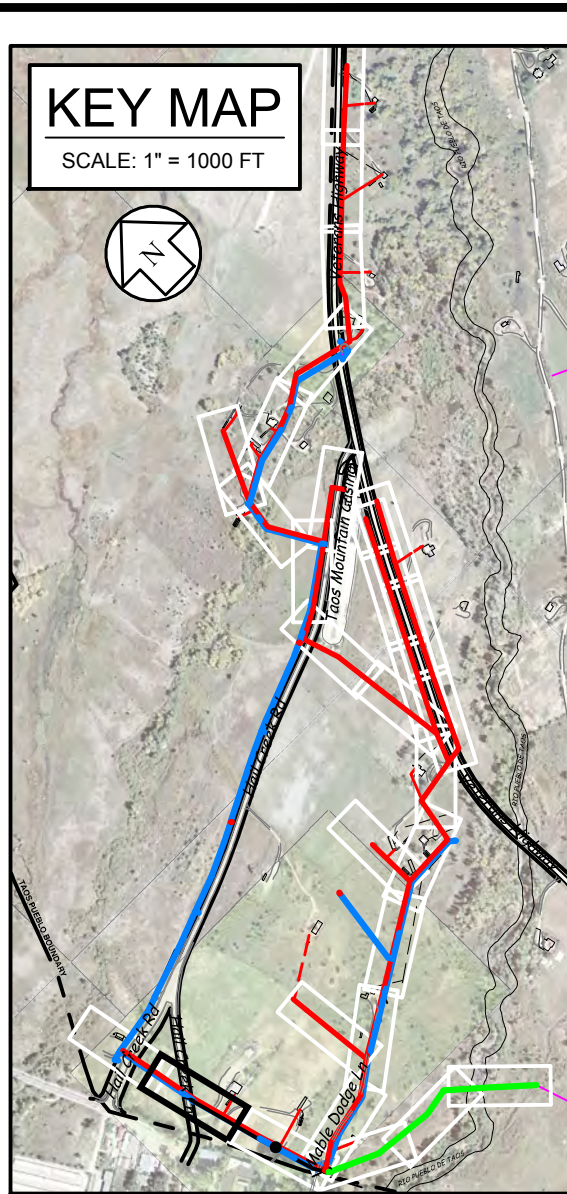
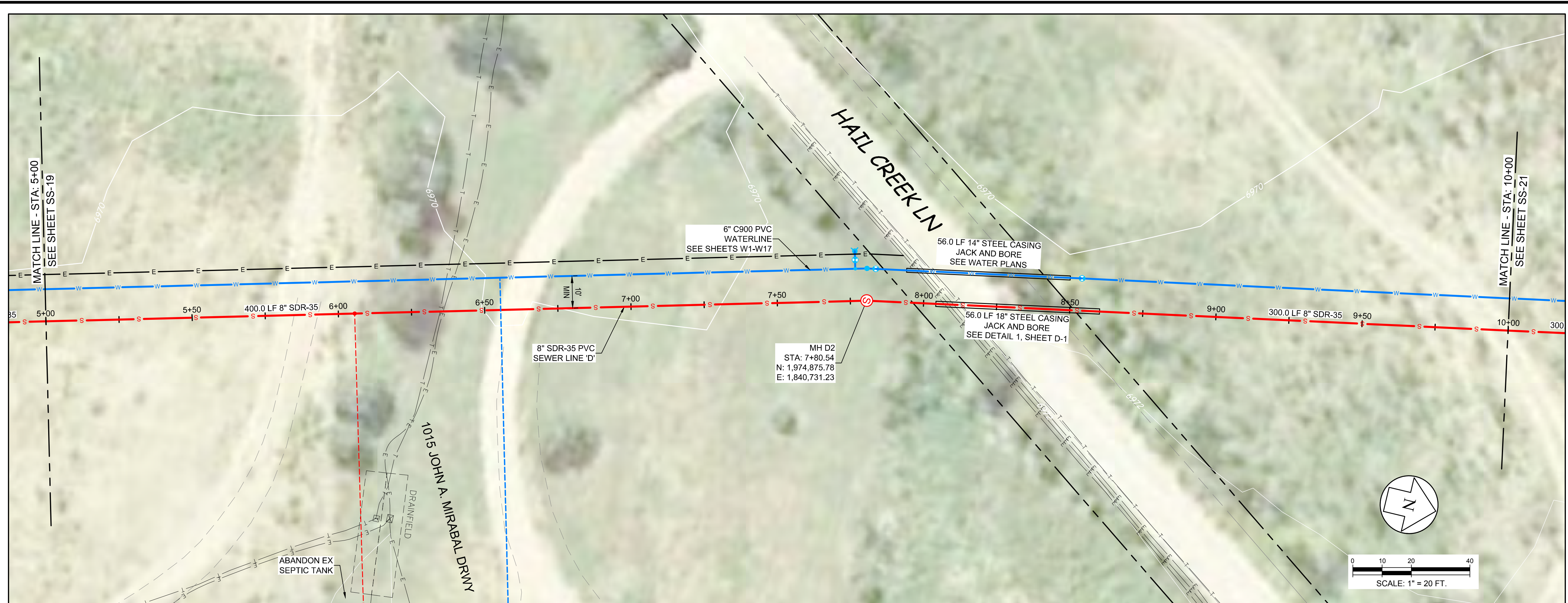
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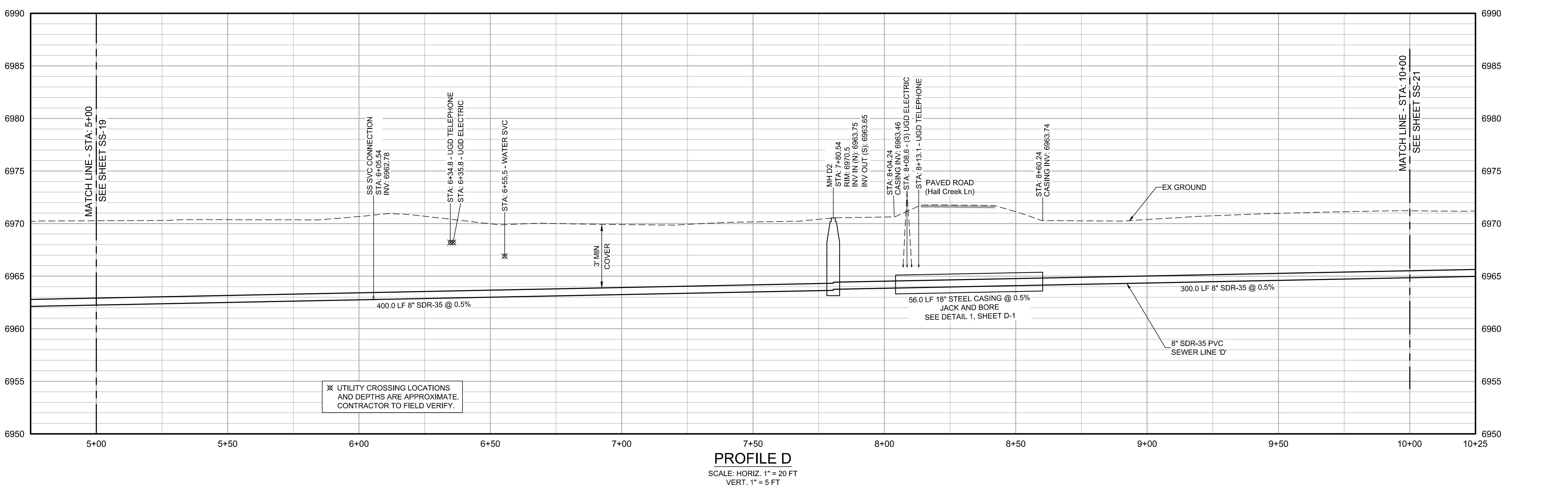
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Project No:	6223190	
Sheet:	SS-19	



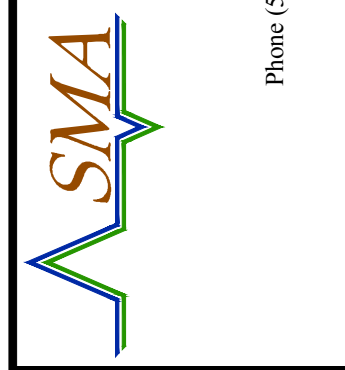
LEGEND

—S—	SANITARY SEWER
—FM—	FORCED MAIN
—SL—	SEWER LATERAL
—W—	WATERLINE
—WS—	WATER SERVICE
—E—	ELECTRIC
—R—	RIGHT-OF-WAY LINE
—EX S—	EX. SEWER MAIN
—EX W—	EX. WATER MAIN
—EX WS—	EX. WATER SERVICE
—EX T—	EX. TELEPHONE
—EX FO—	EX. FIBER OPTIC
—EX E—	EX. ELECTRIC
—EX G—	EX. GAS
—EX SD—	EX. STORM DRAIN
⊙	SEWER MANHOLE
⊕	LIFT STATION
⊖	SEWER CLEANOUT
⊗	MISC. CONNECTION
⊘	COMB. AIR VALVE
⊙	GATE VALVE
⊙	WATER METER
⊙	FIRE HYDRANT
⊙	POWER POLE



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 LINE D - STA 5+00 TO 10+00



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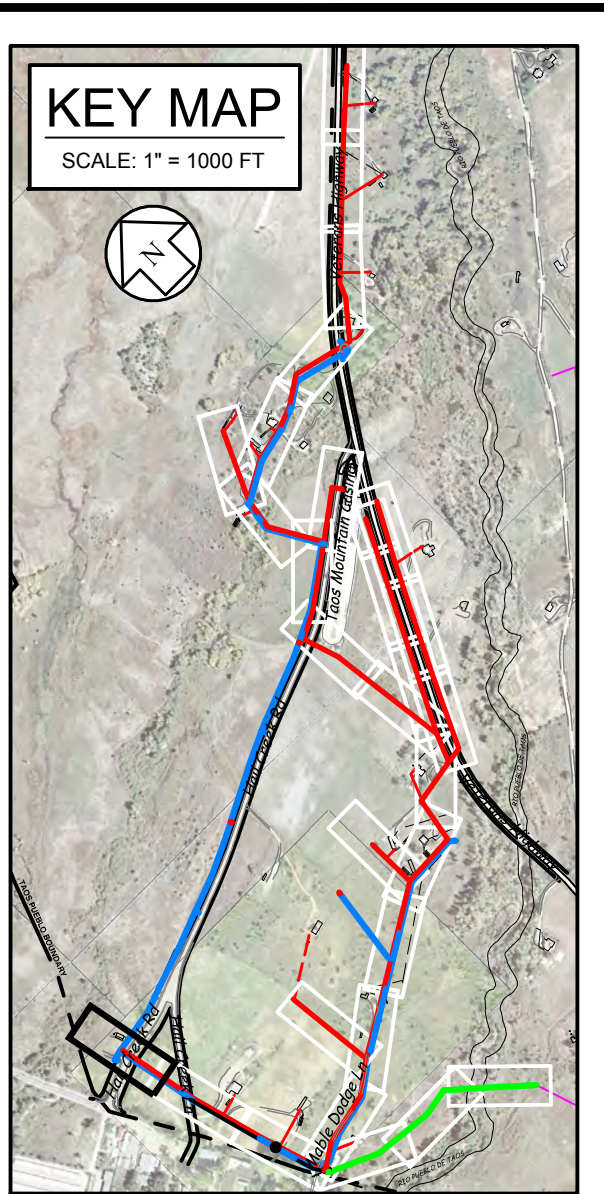
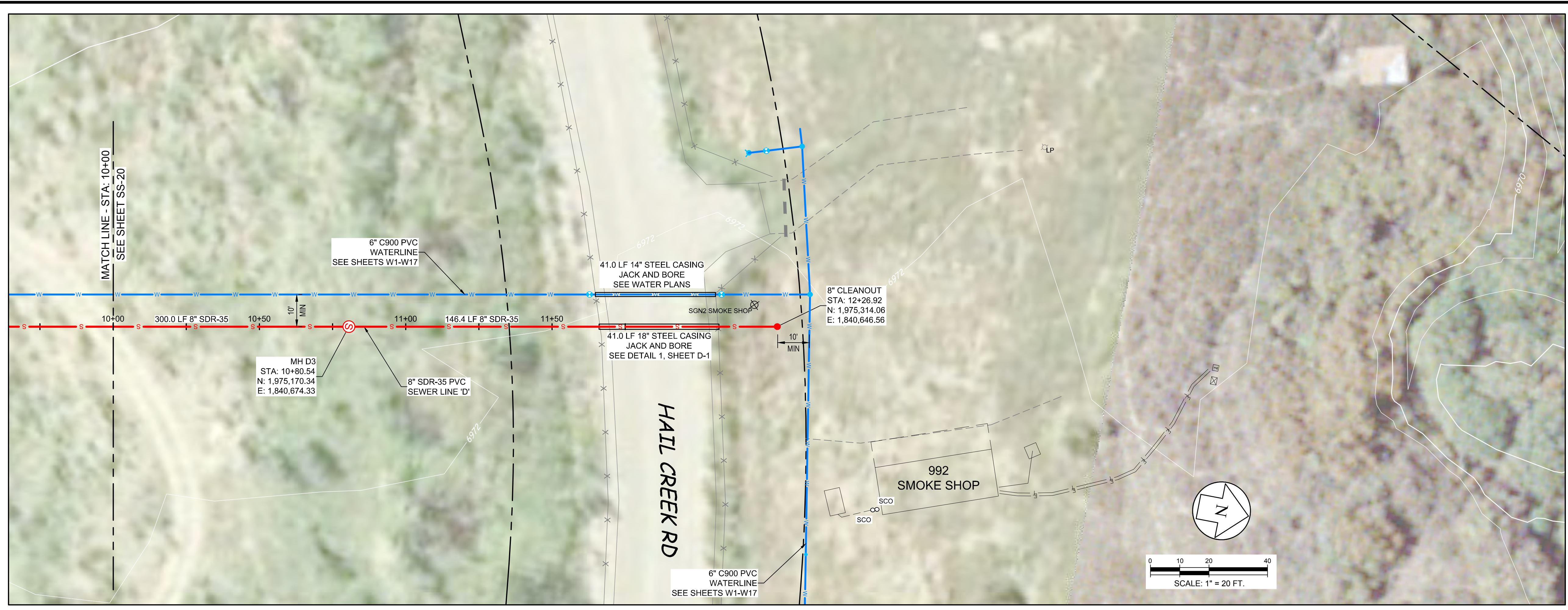
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JAH	BE	ECK

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Scale: Horiz. 1" = 20 FT
 Vert. 1" = 5 FT

Project No: 6223190

Sheet: **SS-20**

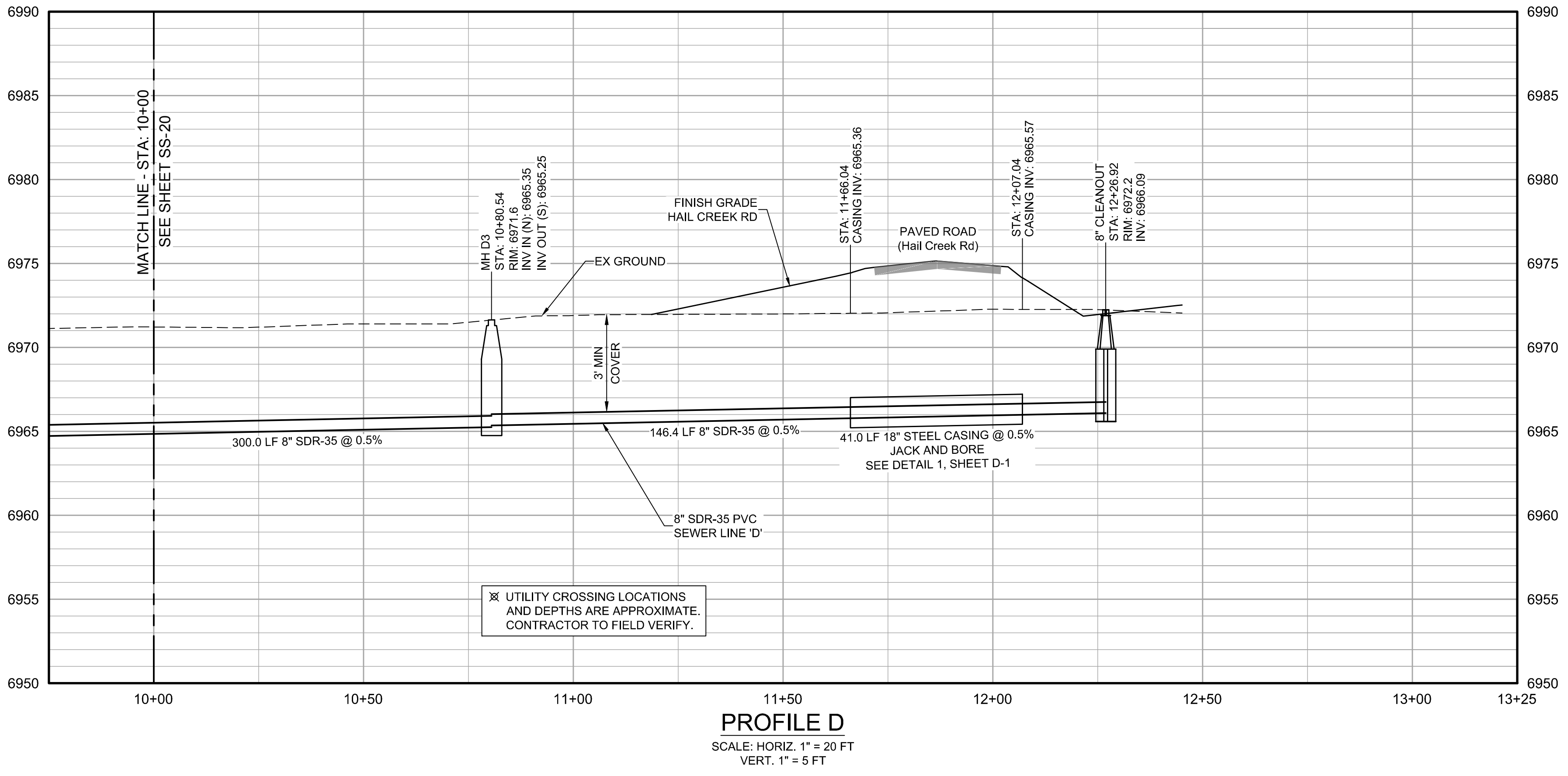
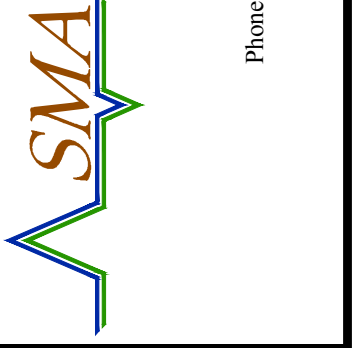


LEGEND

	SANITARY SEWER
	FORCED MAIN
	SEWER LATERAL
	WATERLINE
	WATER SERVICE
	ELECTRIC
	RIGHT-OF-WAY LINE
	EX. SEWER MAIN
	EX. WATER MAIN
	EX. WATER SERVICE
	EX. TELEPHONE
	EX. FIBER OPTIC
	EX. ELECTRIC
	EX. GAS
	EX. STORM DRAIN
	SEWER MANHOLE
	LIFT STATION
	SEWER CLEANOUT
	MISC. CONNECTION
	COMB. AIR VALVE
	GATE VALVE
	WATER METER
	FIRE HYDRANT
	POWER POLE

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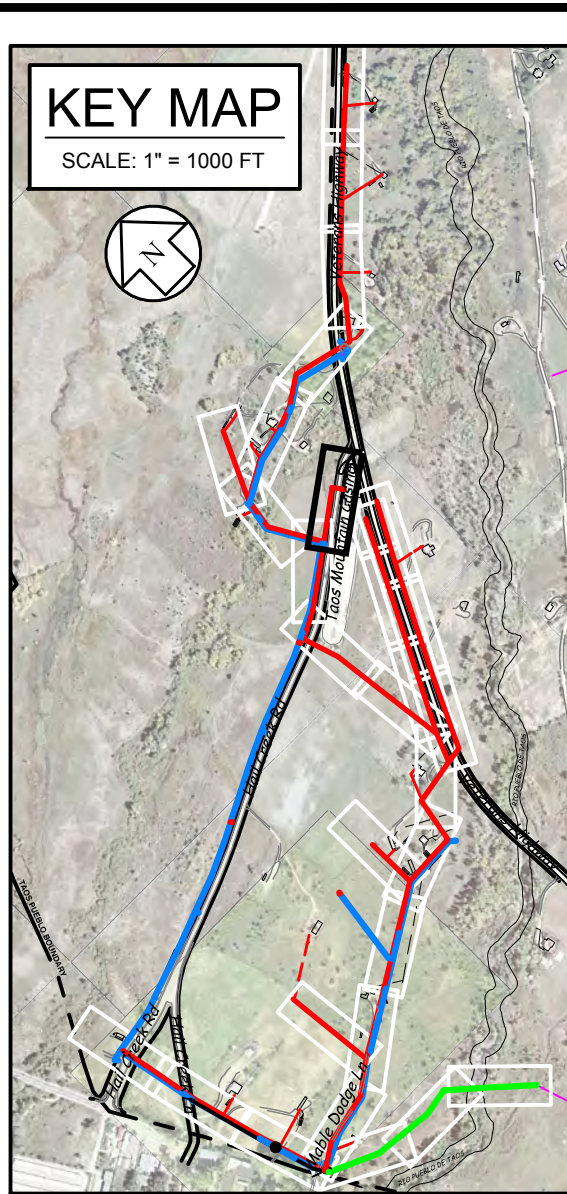
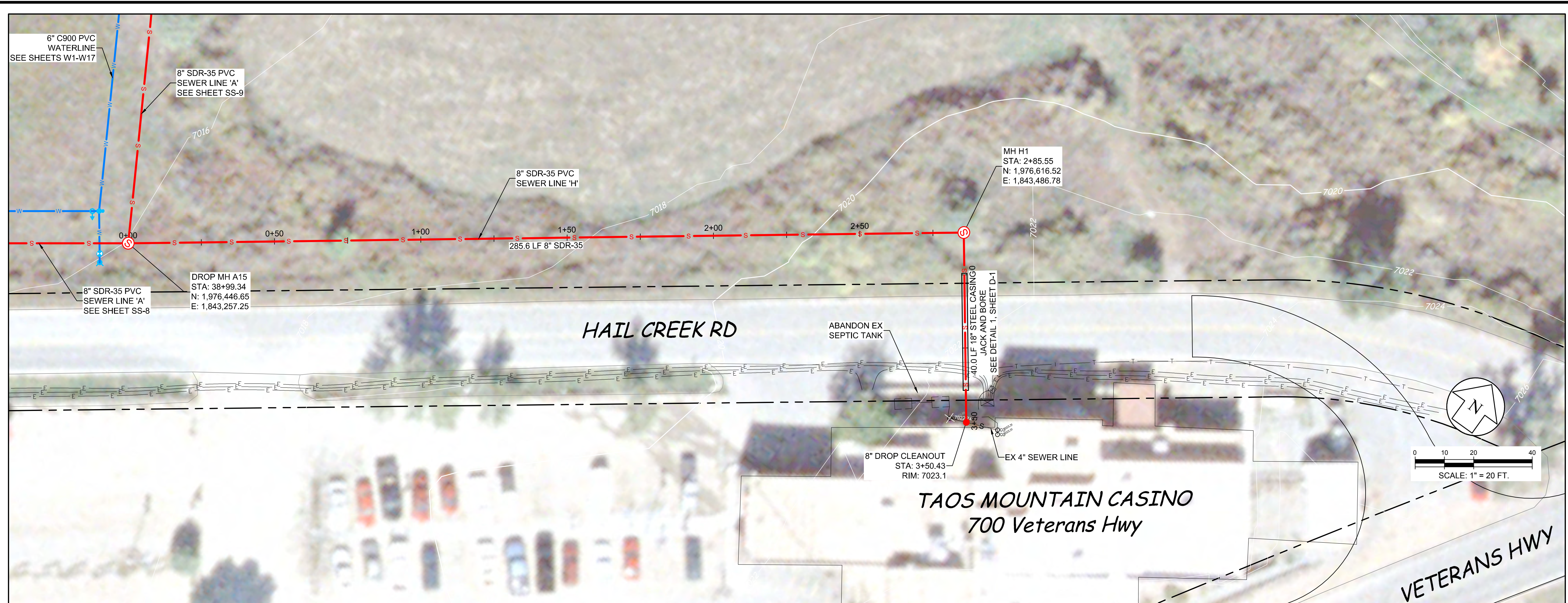


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SEWER PLAN & PROFILE
LINE D - STA 10+00 TO 13+00



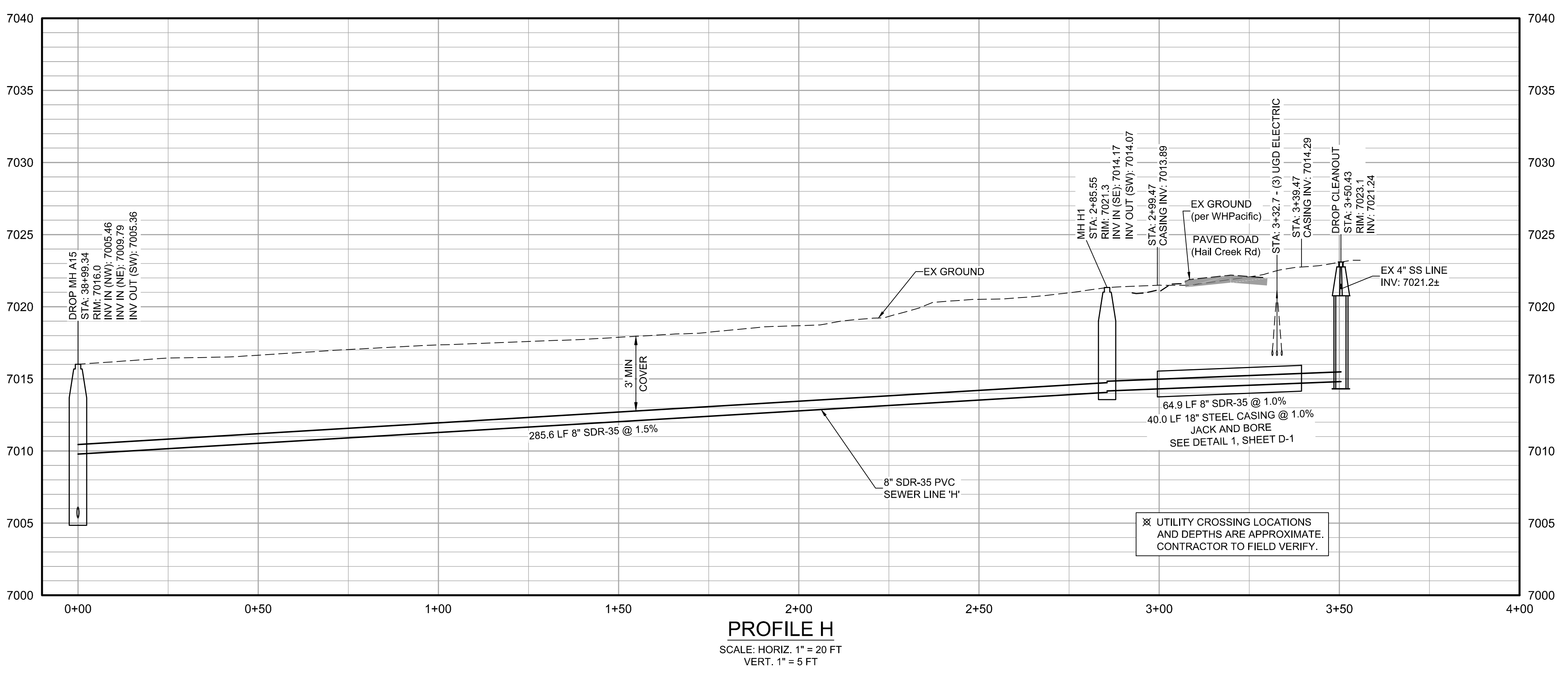
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JAH	BE	ECK
Date:	1/4/2016	
Scale:	Horiz: 1" = 20 FT Vert: 1" = 5 FT	
Project No:	6223190	
Sheet:	SS-21	



LEGEND

	SANITARY SEWER
	FORCED MAIN
	SEWER LATERAL
	WATERLINE
	WATER SERVICE ELECTRIC
	RIGHT-OF-WAY LINE
	EX. SEWER MAIN
	EX. WATER MAIN
	EX. WATER SERVICE
	EX. TELEPHONE
	EX. FIBER OPTIC
	EX. ELECTRIC
	EX. GAS
	EX. STORM DRAIN
	SEWER MANHOLE
	LIFT STATION
	SEWER CLEANOUT
	MISC. CONNECTION
	COMB. AIR VALVE
	GATE VALVE
	WATER METER
	FIRE HYDRANT
	POWER POLE



Rev #	Date	Description	By	CHKD

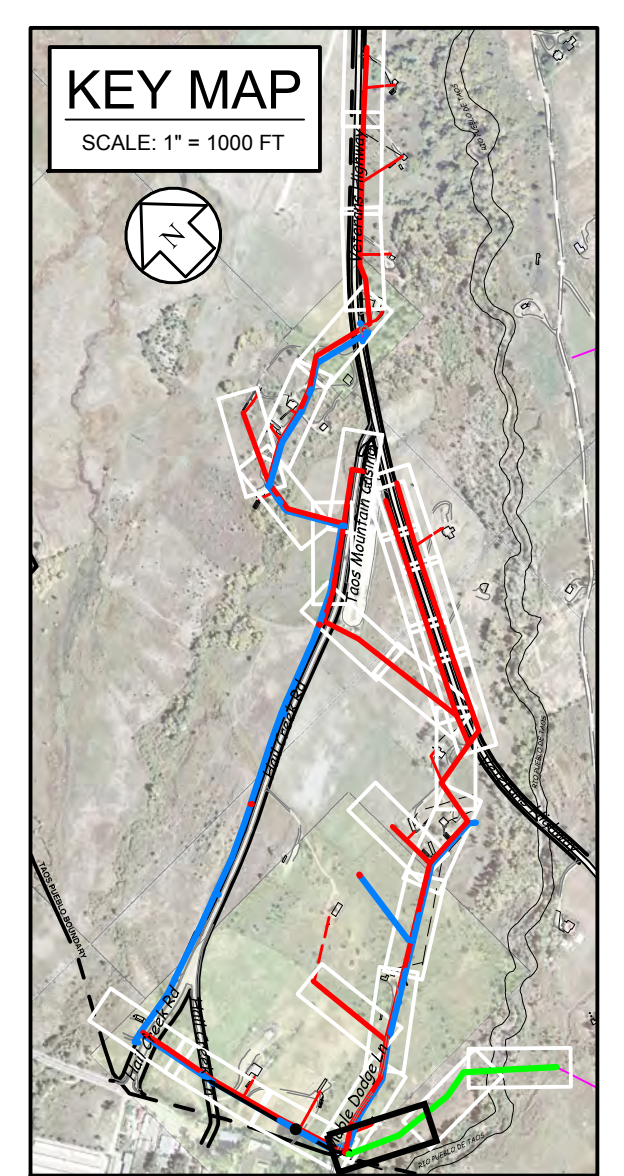
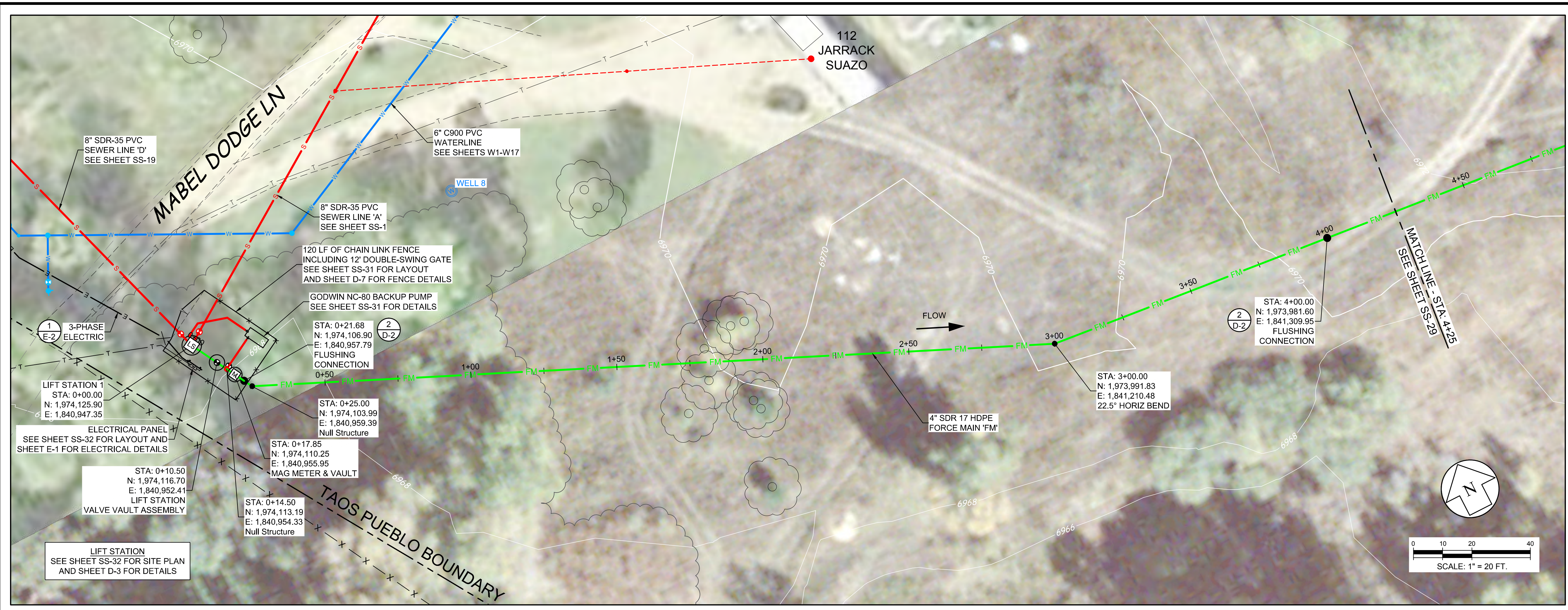
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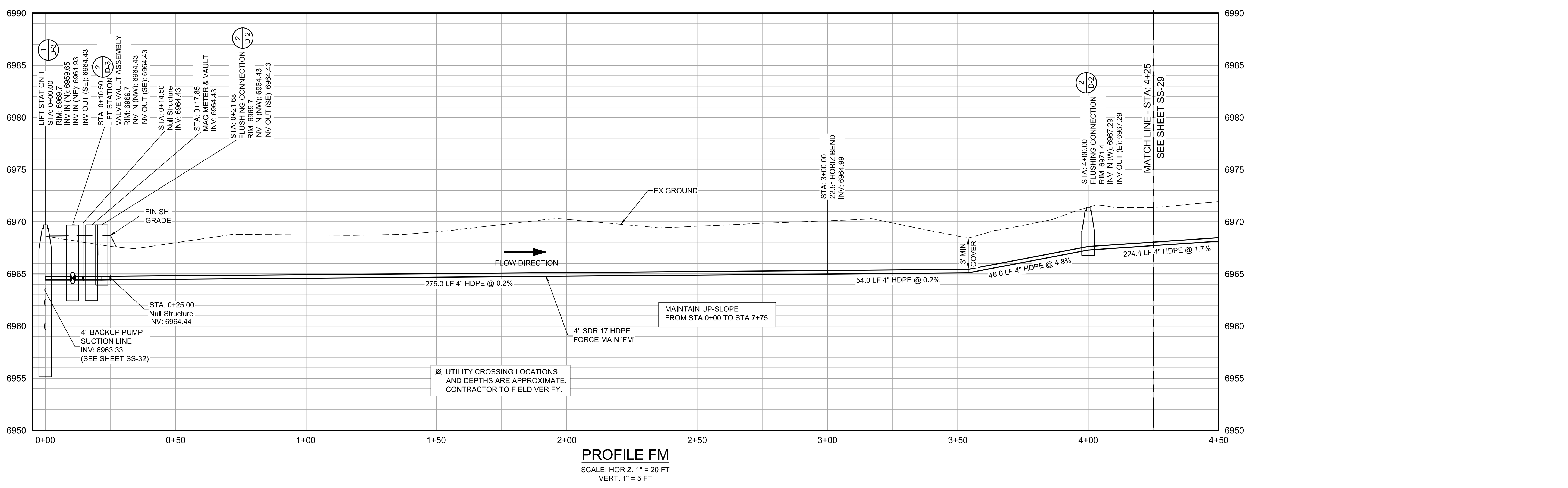
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JAH	BE	ECK
Date:	1/4/2016	
Scale:	Horiz. 1" = 20 FT Vert. 1" = 5 FT	
Project No:	6223190	
Sheet:	SS-24	



LEGEND

	SANITARY SEWER
	FORCED MAIN
	SEWER LATERAL
	WATERLINE
	WATER SERVICE
	ELECTRIC
	RIGHT-OF-WAY LINE
	EX. SEWER MAIN
	EX. WATER MAIN
	EX. WATER SERVICE
	EX. TELEPHONE
	EX. FIBER OPTIC
	EX. ELECTRIC
	EX. GAS
	EX. STORM DRAIN
	SEWER MANHOLE
	LIFT STATION
	SEWER CLEANOUT
	MISC. CONNECTION
	COMB. AIR VALVE
	GATE VALVE
	WATER METER
	FIRE HYDRANT
	POWER POLE



By	CH2
Description	
Rev #	Date

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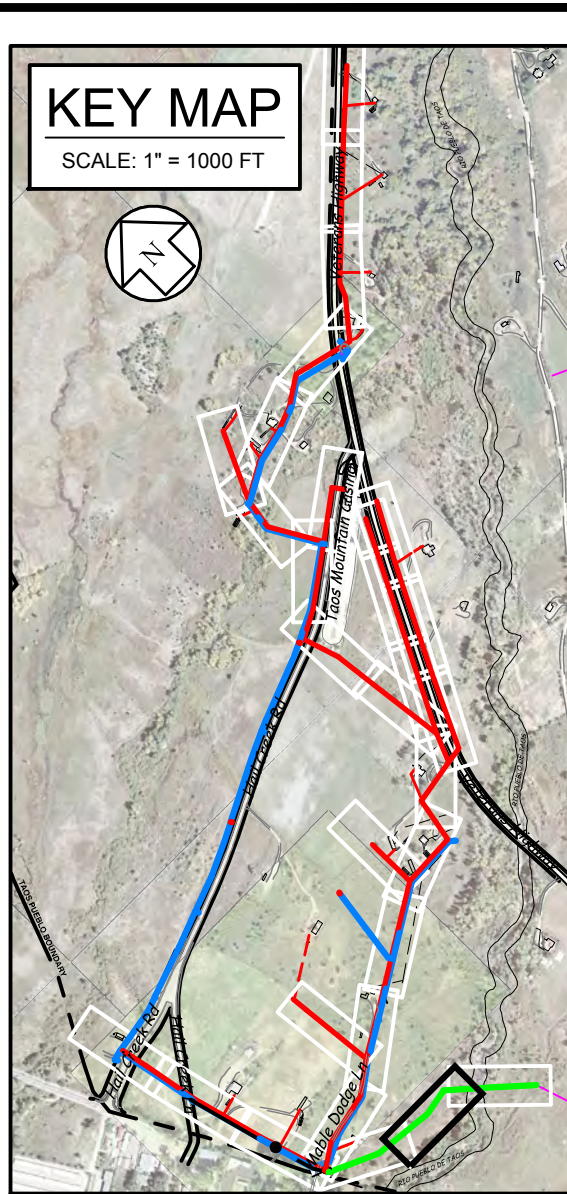
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Scale: Horiz. 1" = 20 FT
Vert. 1" = 5 FT

Project No: 6223190

Sheet: **SS-28**

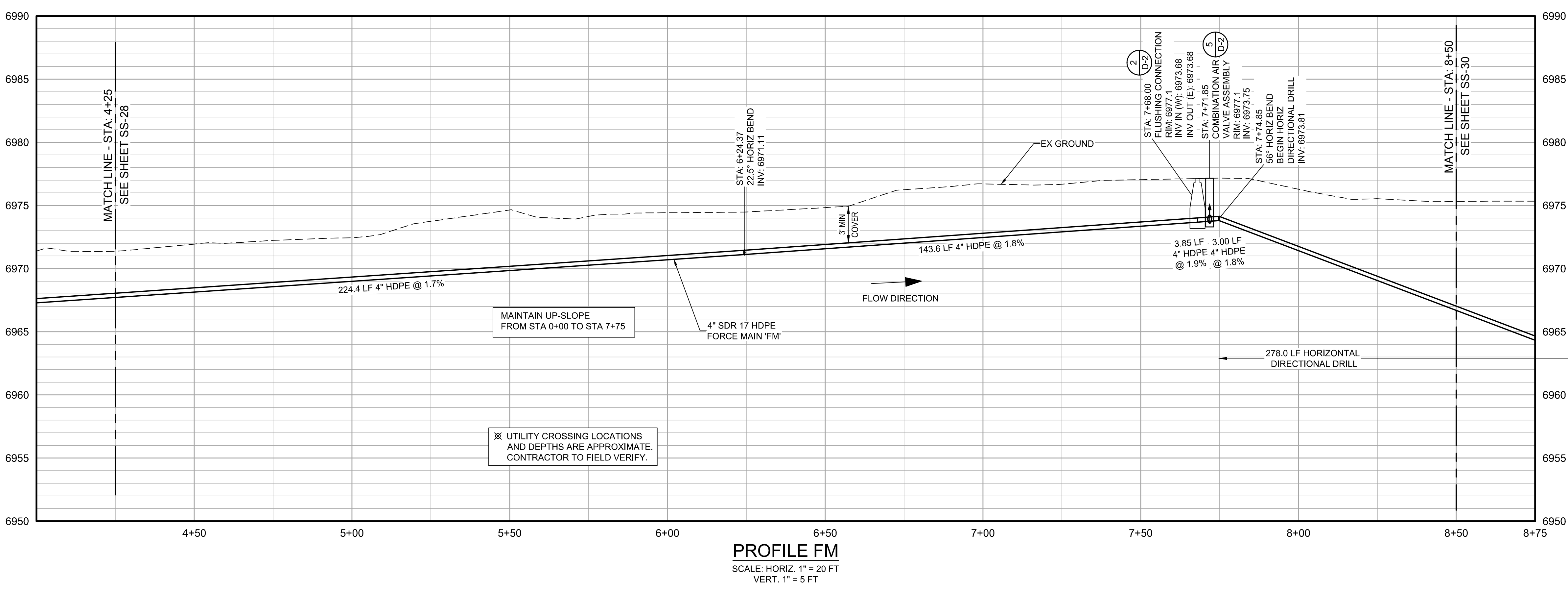


LEGEND

	SANITARY SEWER
	FORCED MAIN
	SEWER LATERAL
	WATERLINE
	WATER SERVICE
	ELECTRIC
	RIGHT-OF-WAY LINE
	EX. SEWER MAIN
	EX. WATER MAIN
	EX. WATER SERVICE
	EX. TELEPHONE
	EX. FIBER OPTIC
	EX. ELECTRIC
	EX. GAS
	EX. STORM DRAIN
	SEWER MANHOLE
	LIFT STATION
	SEWER CLEANOUT
	MISC. CONNECTION
	COMB. AIR VALVE
	GATE VALVE
	WATER METER
	FIRE HYDRANT
	POWER POLE

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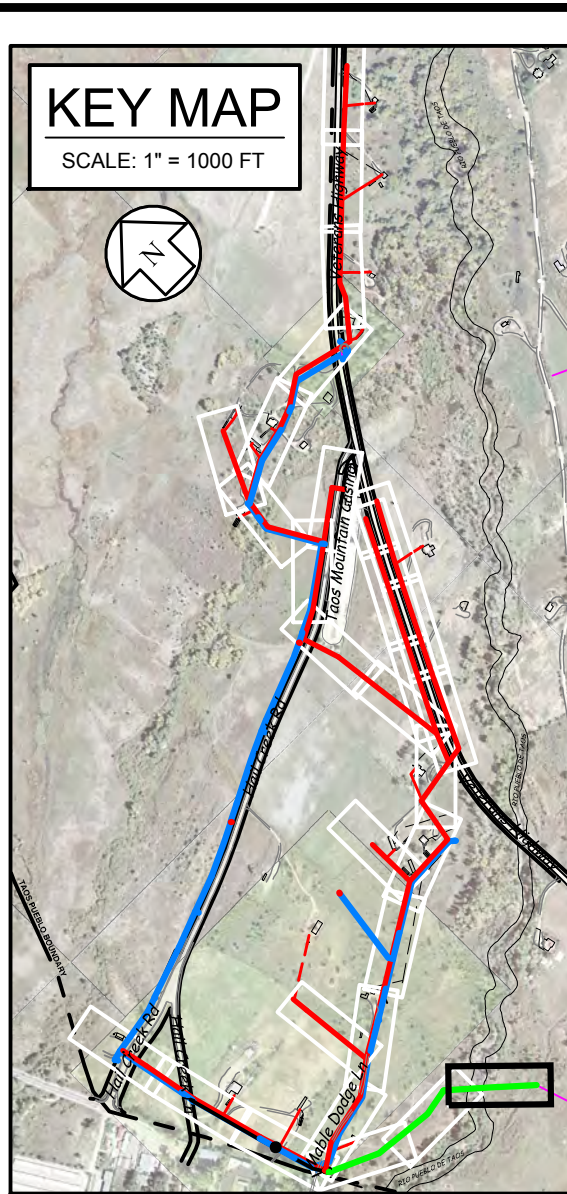
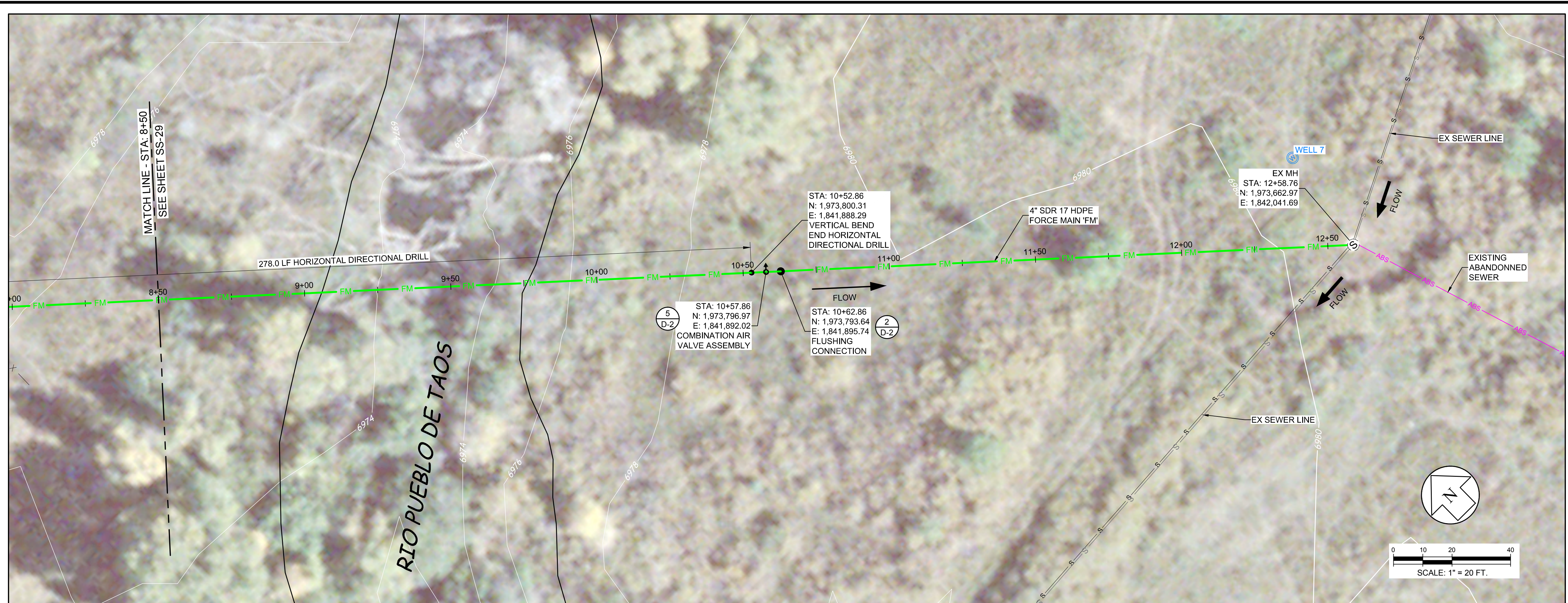


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SEWER PLAN & PROFILE
LINE FM - STA 4+25 TO 8+50



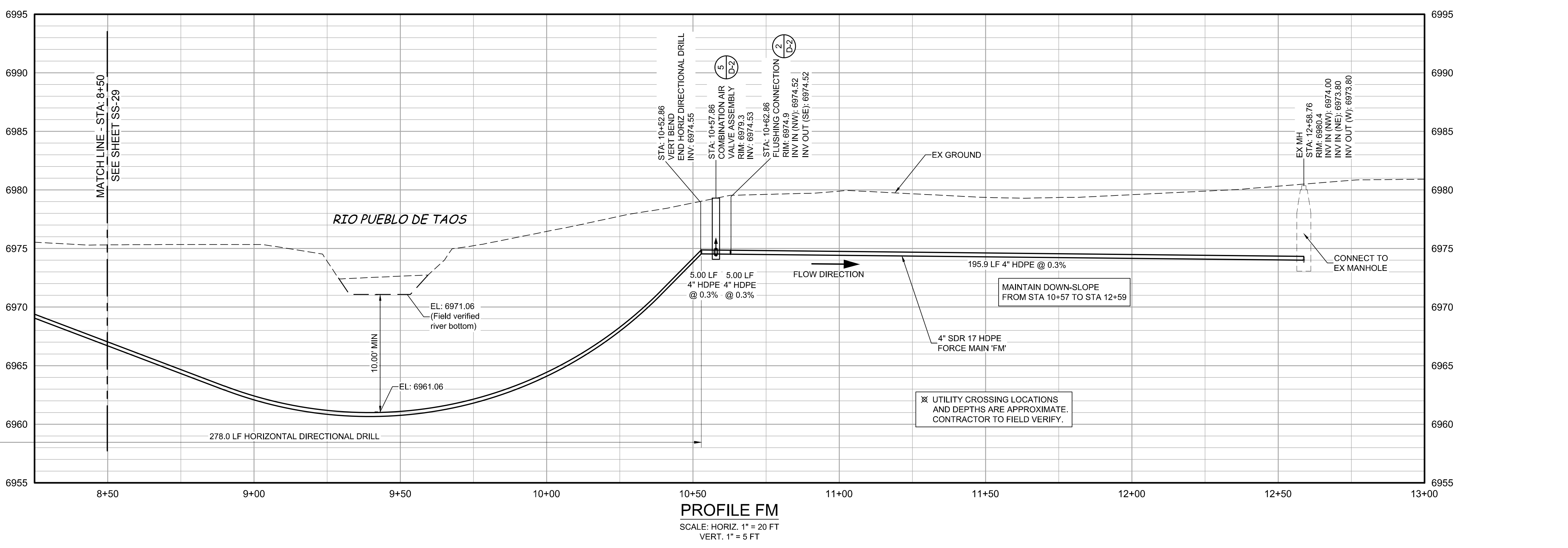
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Date: 1/4/2016		
Scale: Horiz. 1" = 20 FT Vert. 1" = 5 FT		
Project No: 6223190		
Sheet: SS-29		



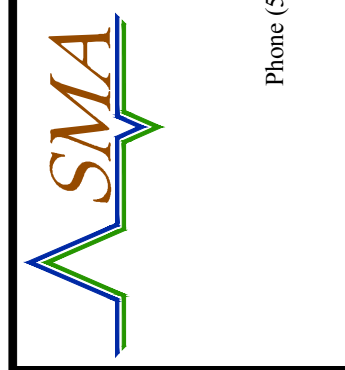
LEGEND

	SANITARY SEWER
	FORCED MAIN
	SEWER LATERAL
	WATERLINE
	WATER SERVICE
	ELECTRIC
	RIGHT-OF-WAY LINE
	EX. SEWER MAIN
	EX. WATER MAIN
	EX. WATER SERVICE
	EX. TELEPHONE
	EX. FIBER OPTIC
	EX. ELECTRIC
	EX. GAS
	EX. STORM DRAIN
	SEWER MANHOLE
	LIFT STATION
	SEWER CLEANOUT
	MISC. CONNECTION
	COMB. AIR VALVE
	GATE VALVE
	WATER METER
	FIRE HYDRANT
	POWER POLE



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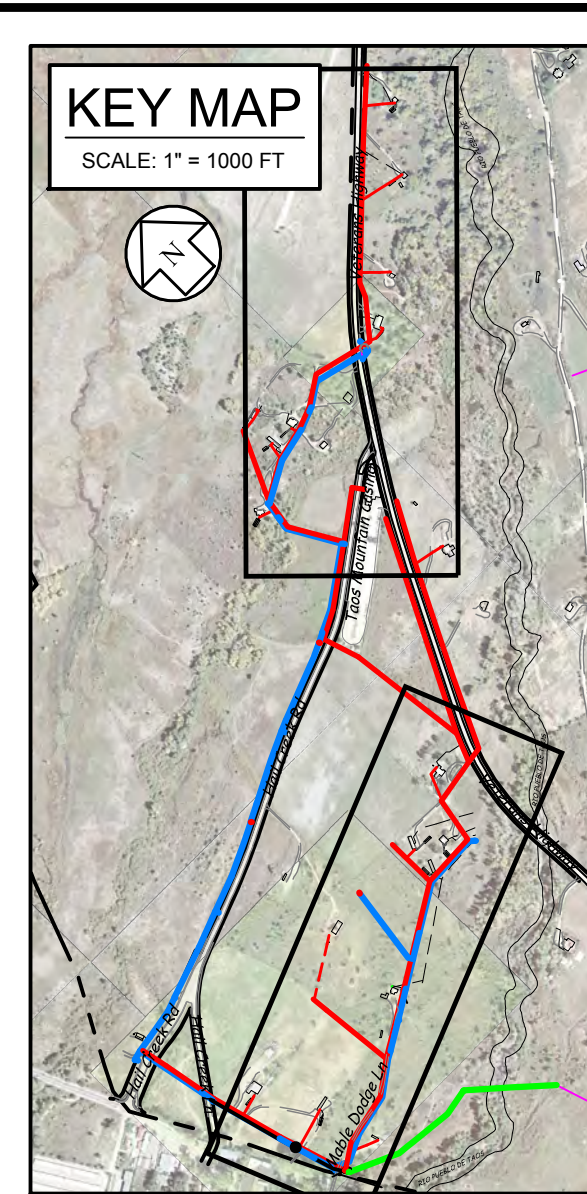
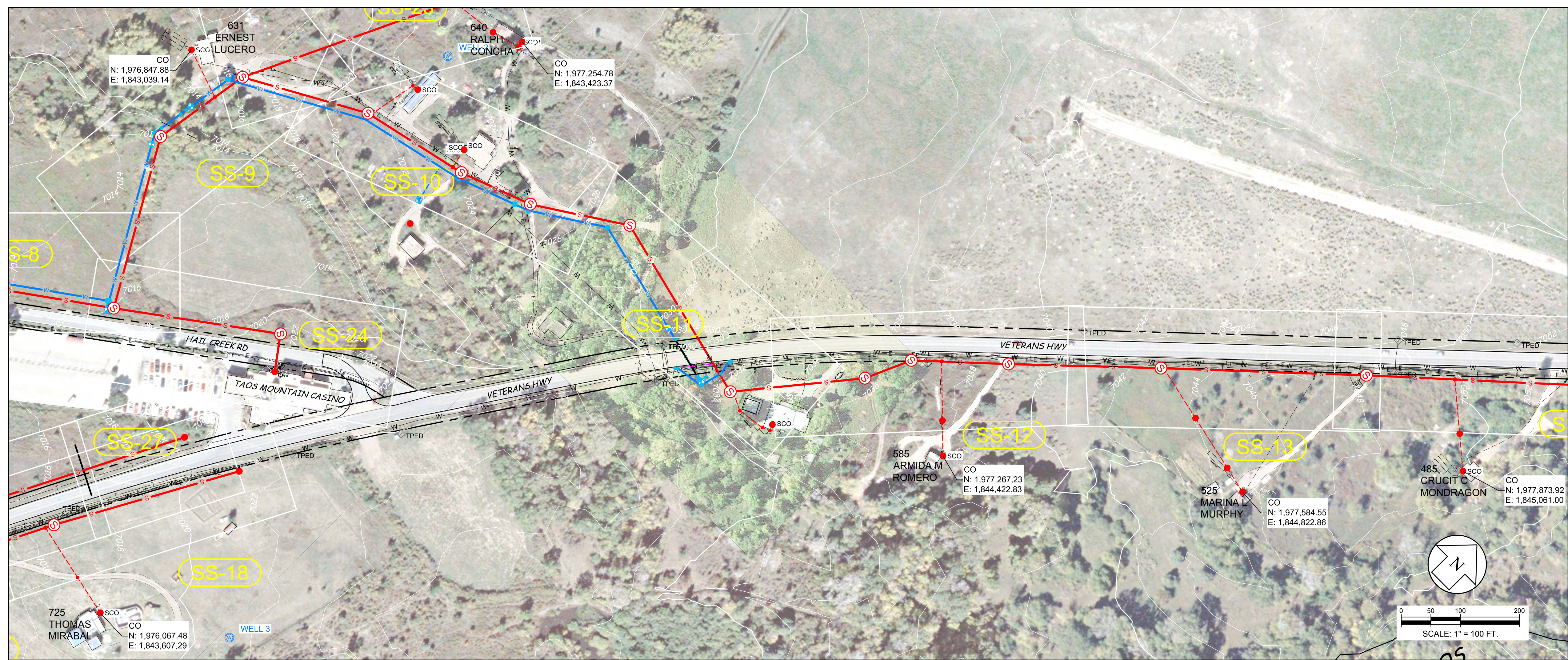
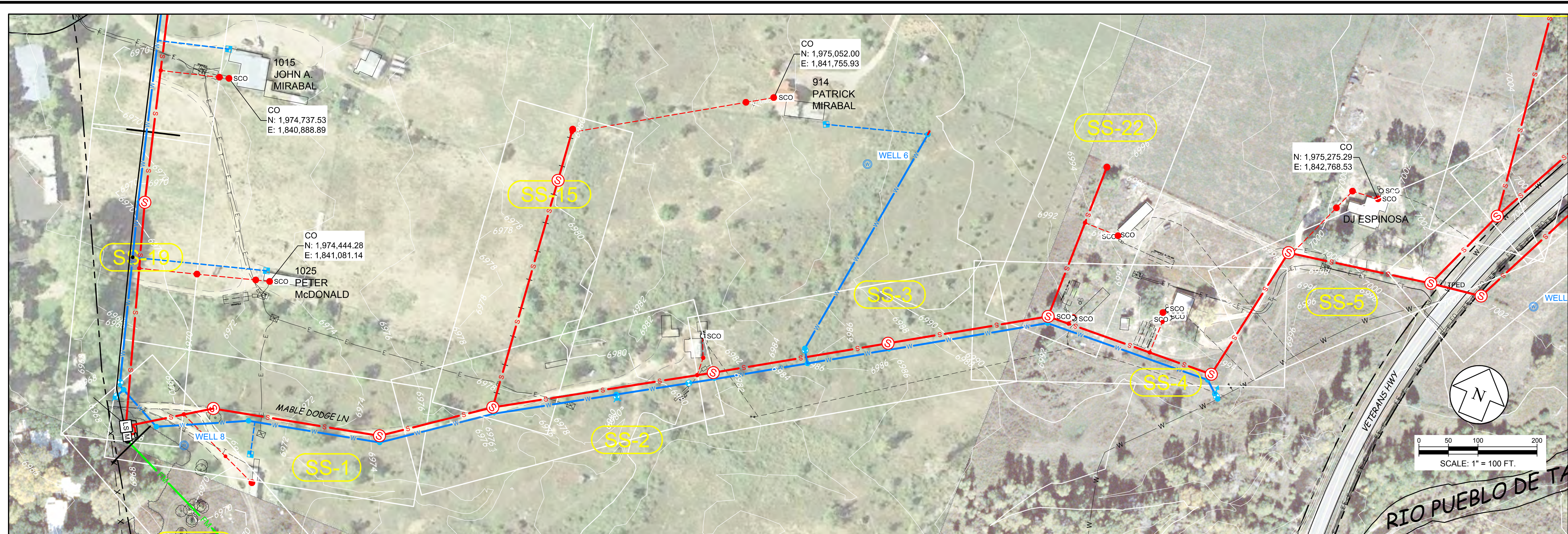


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WATER & WASTEWATER EXPANSION
SEWER PLAN & PROFILE
LINE FM - STA 8+50 TO 13+00



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Designed	Drawn	Checked
JAH	BE	ECK
Date:	1/4/2016	
Scale:	Horiz. 1" = 20 FT Vert. 1" = 5 FT	
Project No:	6223190	
Sheet:	SS-30	



LEGEND

	SANITARY SEWER
	FORCED MAIN
	SEWER LATERAL
	WATER LINE
	WATER SERVICE
	ELECTRIC
	RIGHT-OF-WAY LINE
	EX. SEWER MAIN
	EX. WATER MAIN
	EX. WATER SERVICE
	EX. TELEPHONE
	EX. FIBER OPTIC
	EX. ELECTRIC
	EX. GAS
	EX. STORM DRAIN

	SEWER MANHOLE
	LIFT STATION
	SEWER CLEANOUT
	MISC. CONNECTION
	COMB. AIR VALVE
	GATE VALVE
	WATER METER
	FIRE HYDRANT
	POWER POLE

Rev #	Date	Description	By	CHKD

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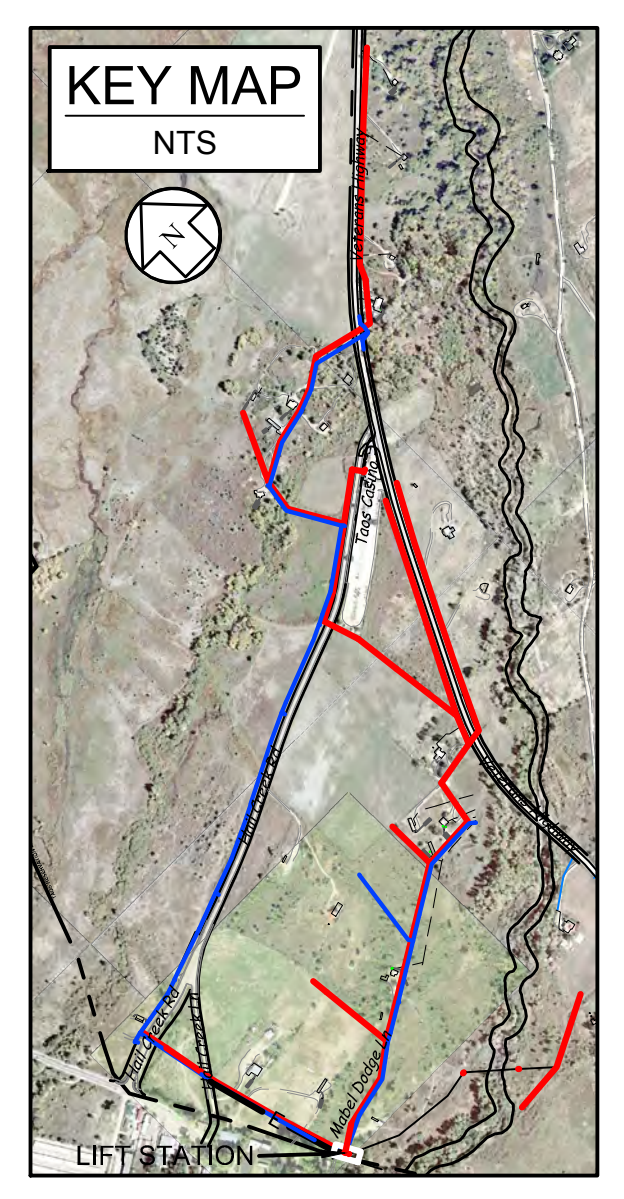
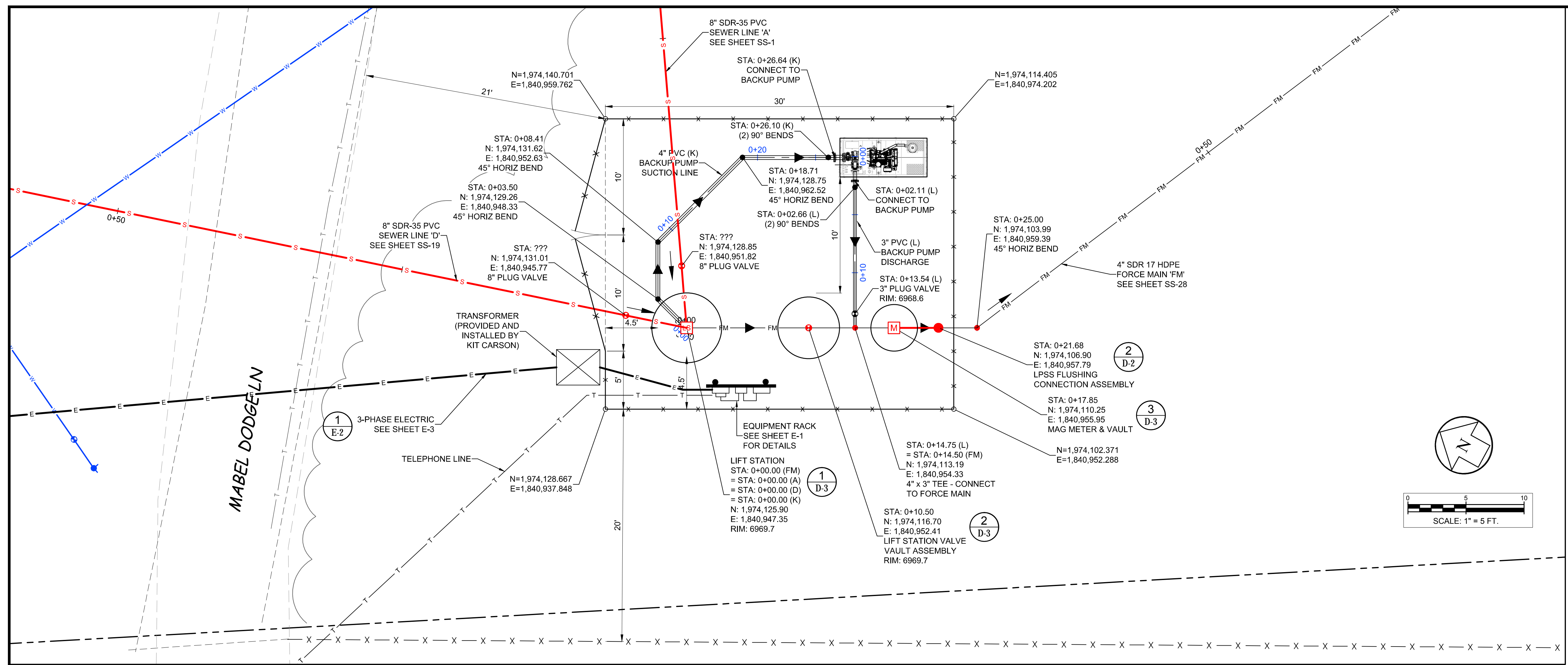
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TAOS PUEBLO
TAOS PUEBLO
WATER & WASTEWATER EXPANSION
SERVICE CONNECTIONS
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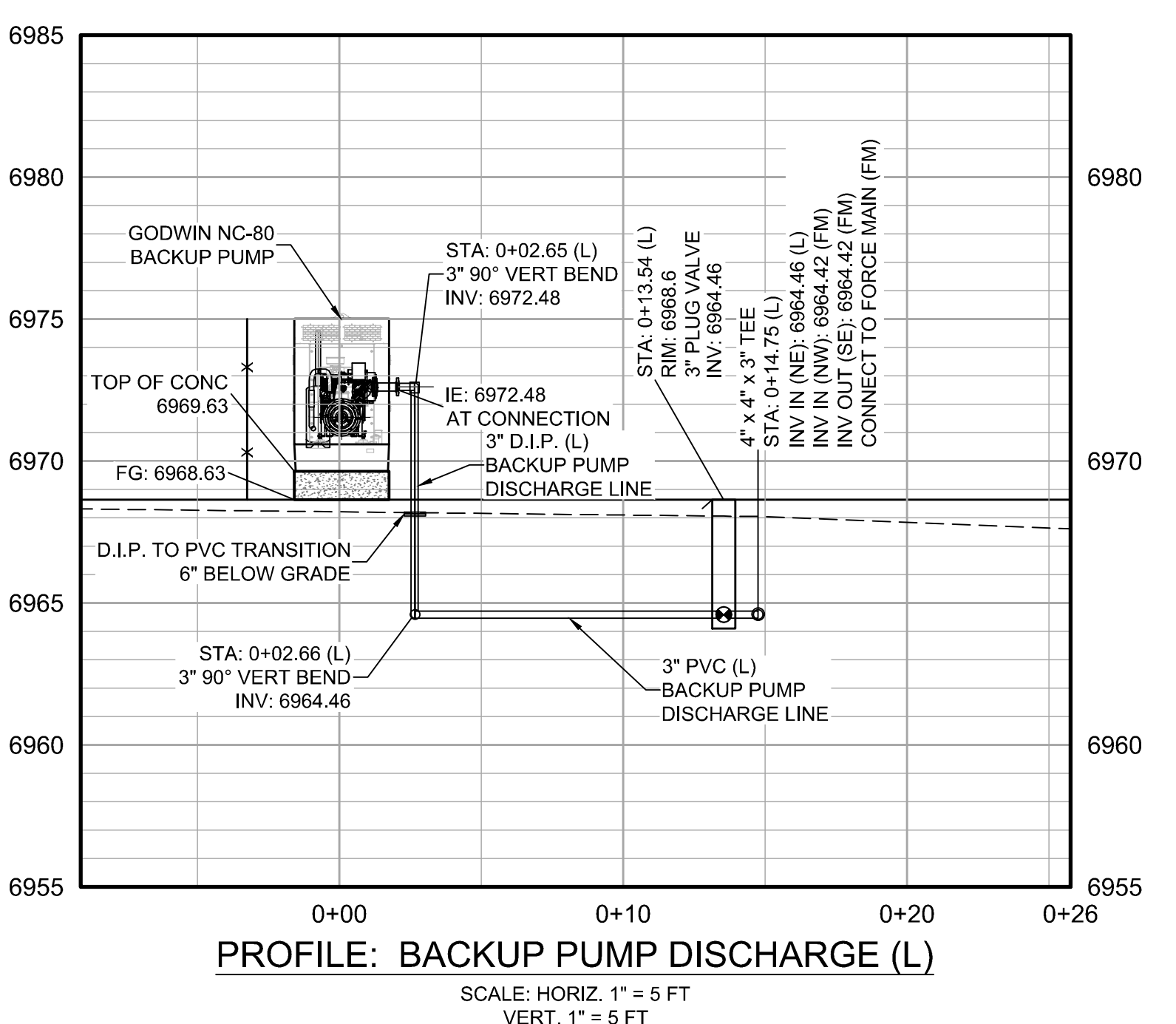
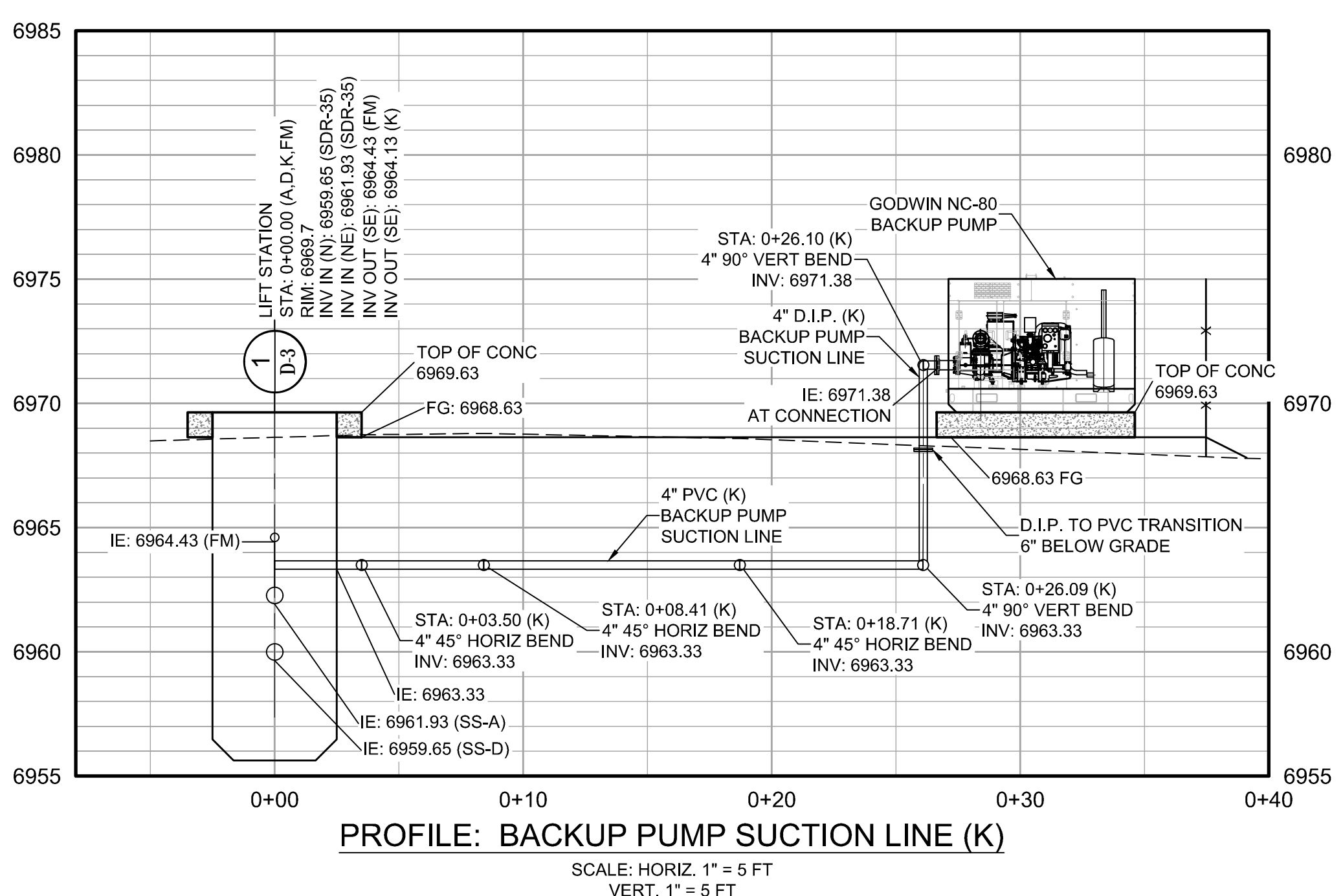
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 Scale: Horiz: 1" = 100 FT
 Vert:
 Project No: 6223190
 Sheet: SS-31



LEGEND

	SANITARY SEWER
	FORCED MAIN
	SEWER LATERAL
	WATERLINE
	WATER SERVICE
	ELECTRIC
	RIGHT-OF-WAY LINE
	EX. SEWER MAIN
	EX. WATER MAIN
	EX. WATER SERVICE
	EX. TELEPHONE
	EX. FIBER OPTIC
	EX. ELECTRIC
	EX. GAS
	EX. STORM DRAIN
	SEWER MANHOLE
	LIFT STATION
	SEWER CLEANOUT
	MISC. CONNECTION
	COMB. AIR VALVE
	GATE VALVE
	WATER METER
	FIRE HYDRANT
	POWER POLE



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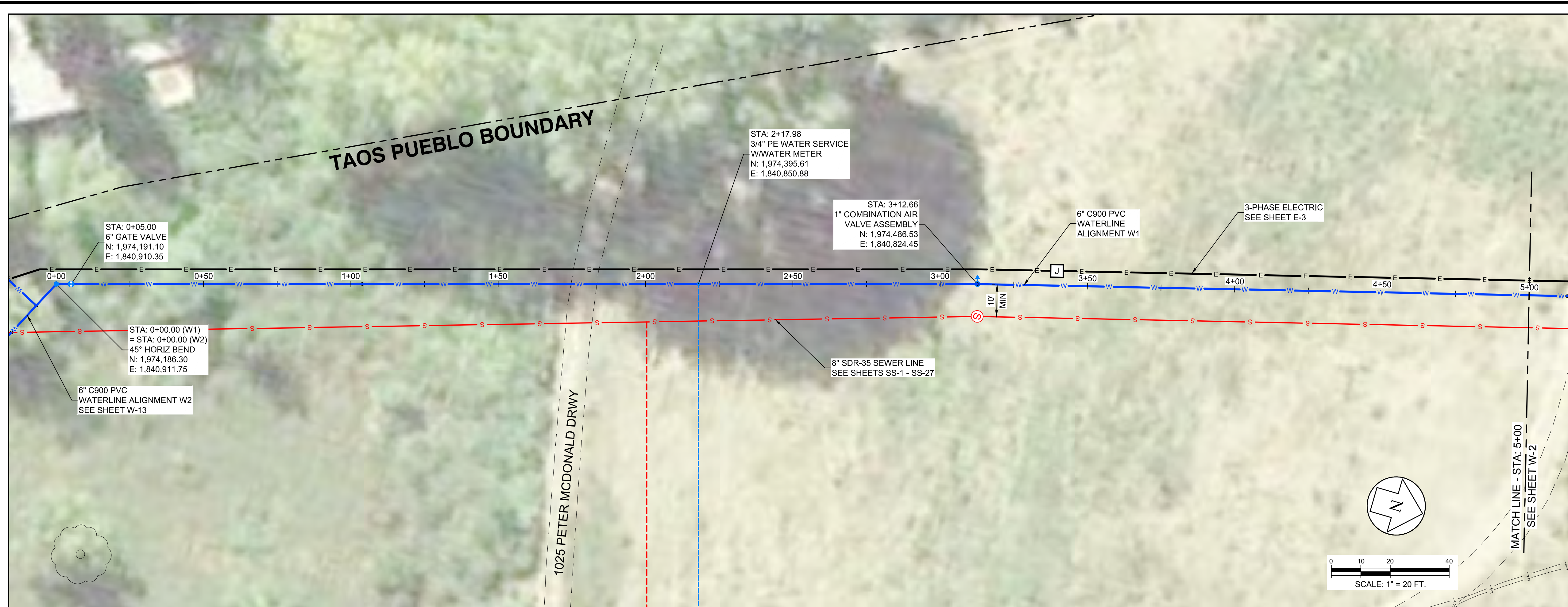
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TAOS PUEBLO
WATER & WASTEWATER EXPANSION
LIFT STATION SITE PLAN



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Date: 1/4/2016
 Scale: Horiz. 1" = 5 FT
 Vert. 1" = 5 FT
 Project No: 6223190
 Sheet: SS-32



KEY MAP
NTS

LEGEND

- S SANITARY SEWER
- FM FORCED MAIN
- SL SEWER LATERAL
- W WATERLINE
- WS WATER SERVICE
- E ELECTRIC
- FO RIGHT-OF-WAY LINE
- EX. S.W. MAIN EX. WATER MAIN
- EX. W.S. MAIN EX. WATER SERVICE
- T EX. TELEPHONE
- FO EX. FIBER OPTIC
- E EX. ELECTRIC
- G EX. GAS
- SD EX. STORM DRAIN
- SM SEWER MANHOLE
- LS LIFT STATION
- SC SEWER CLEANOUT
- MC MISC. CONNECTION
- CA COMB. AIR VALVE
- GV GATE VALVE
- WM WATER METER
- FH FIRE HYDRANT
- PP POWER POLE

EXISTING (various symbols)
PROPOSED (various symbols)

SCALE: 1" = 20 FT.

Rev #	Date	Description	By	CHKD

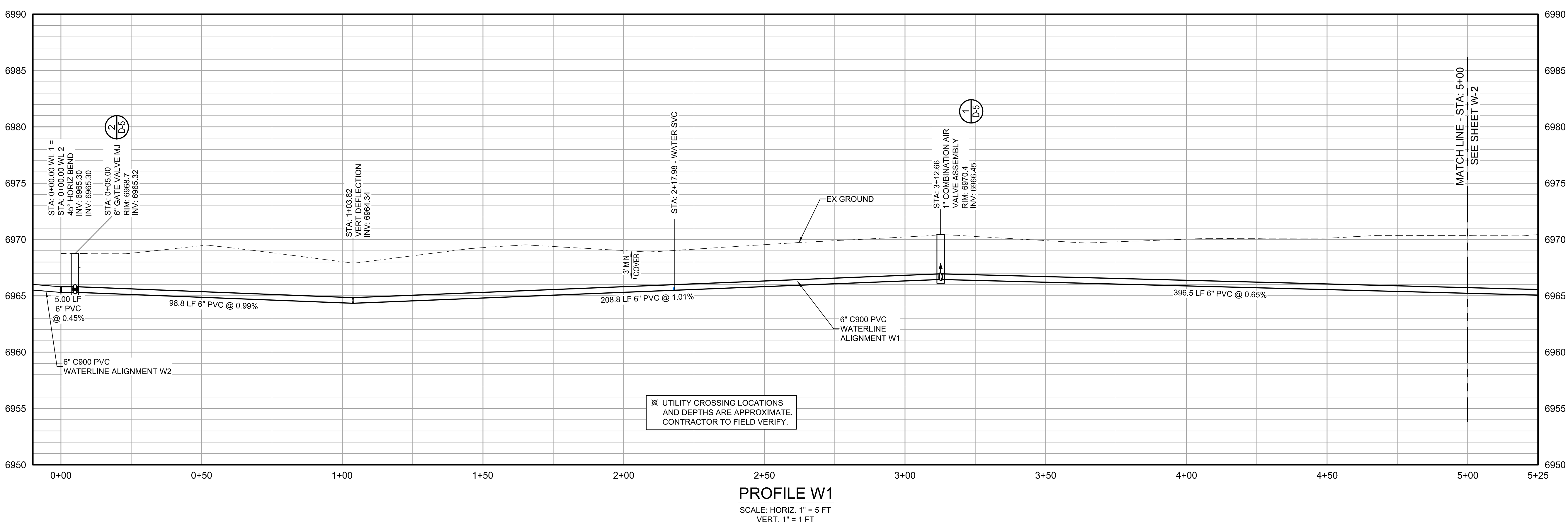
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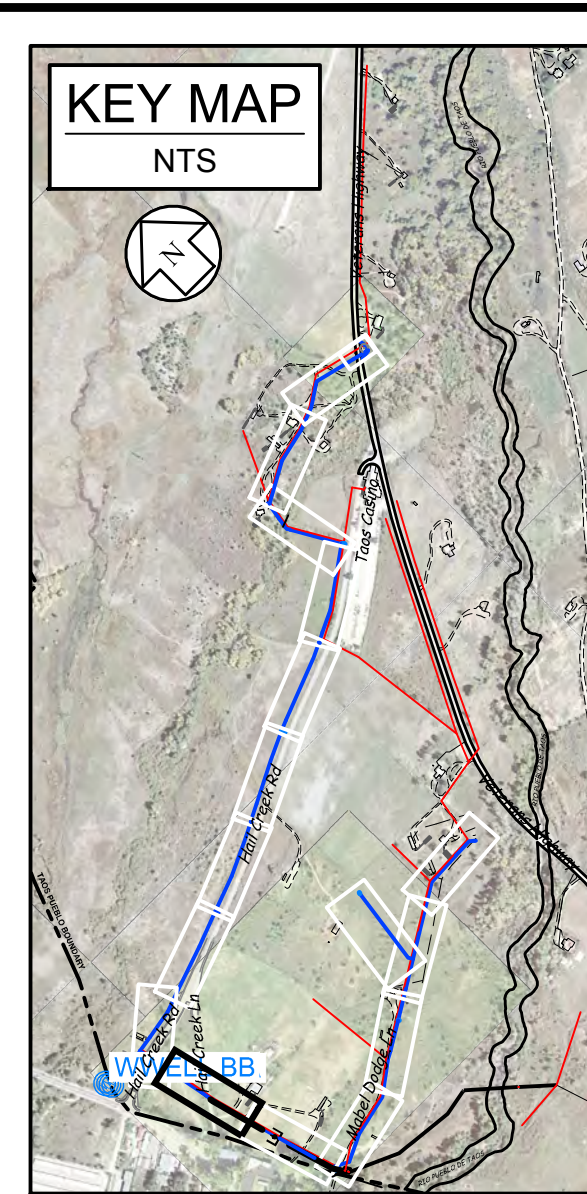
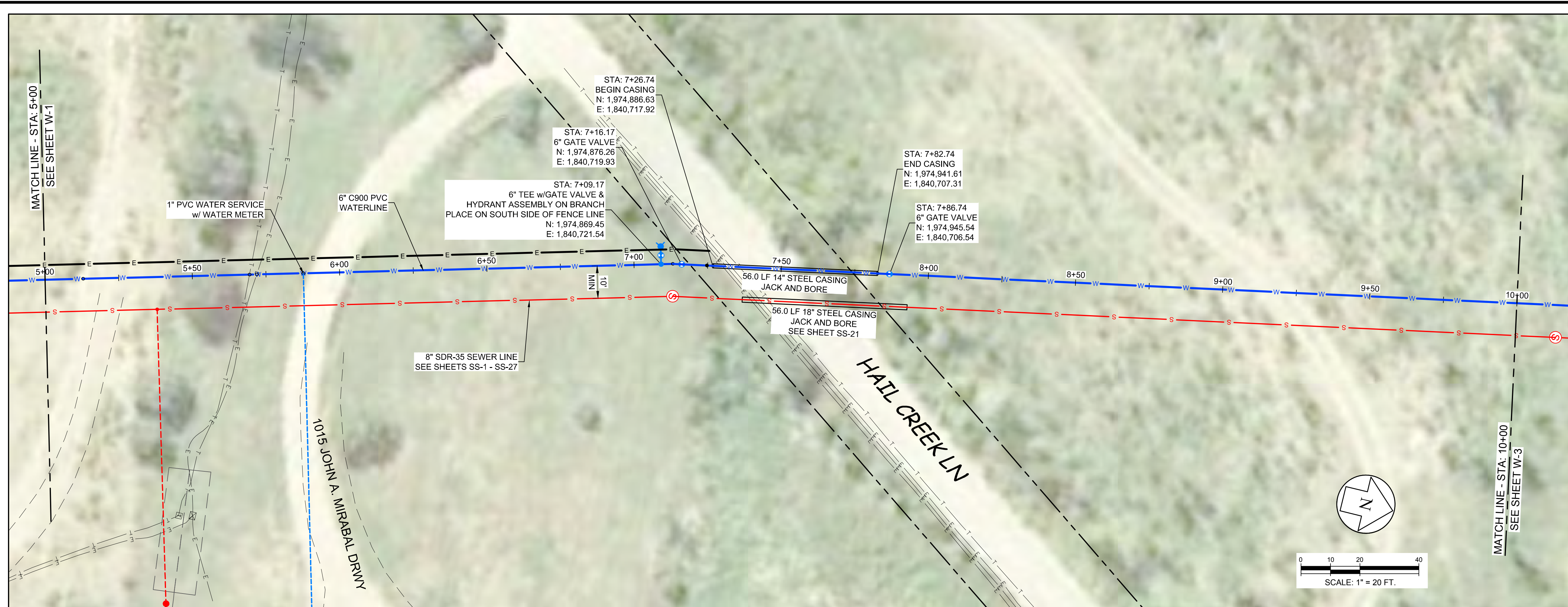
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WATER & WASTEWATER EXPANSION
WATERLINE PLAN & PROFILE
LINE W1 - STA 0+00 TO 5+00**



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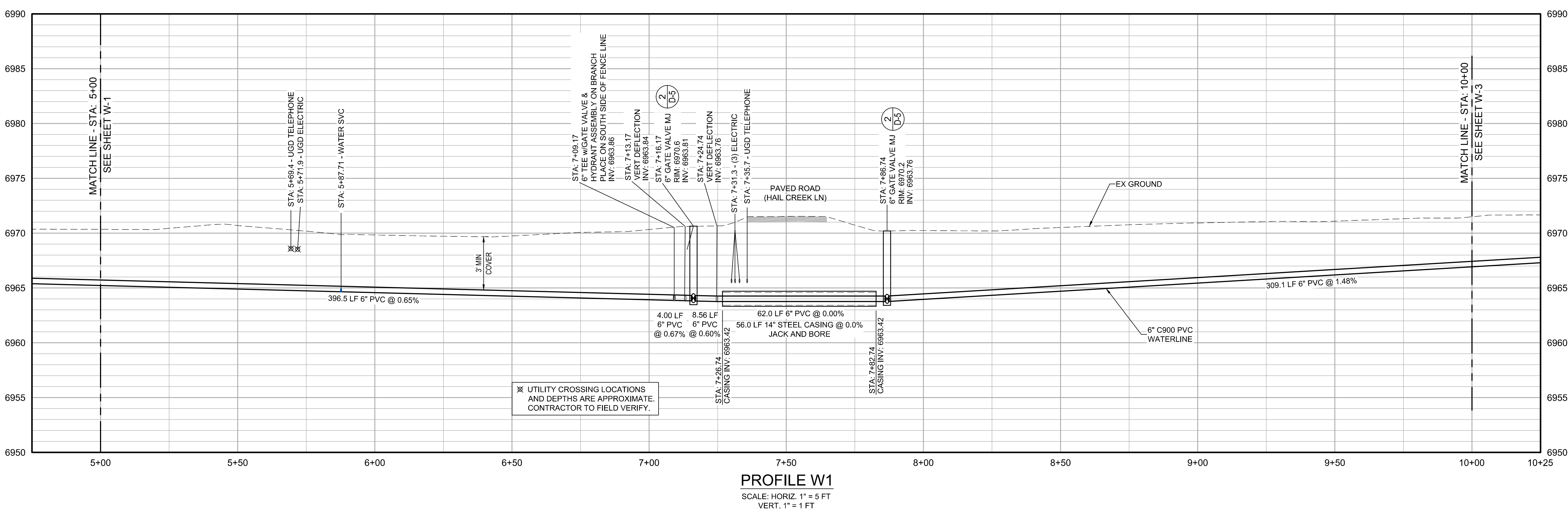
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Scale:	Horiz: 1" = 20 FT Vert: 1" = 5 FT	
Project No:	6223190	
Sheet:	W-1	





LEGEND

— S —	SANITARY SEWER
— FM —	FORCED MAIN
— SL —	SEWER LATERAL
— W —	WATERLINE
— WS —	WATER SERVICE
— E —	ELECTRIC
— R —	RIGHT-OF-WAY LINE
— EX —	EX. SEWER MAIN
— EX —	EX. WATER MAIN
— EX —	EX. WATER SERVICE
— EX —	EX. TELEPHONE
— EX —	EX. FIBER OPTIC
— EX —	EX. ELECTRIC
— EX —	EX. GAS
— EX —	EX. STORM DRAIN
⊙	SEWER MANHOLE
⊙	LIFT STATION
⊙	SEWER CLEANOUT
⊙	MISC. CONNECTION
⊙	COMB. AIR VALVE
⊙	GATE VALVE
⊙	WATER METER
⊙	FIRE HYDRANT
⊙	POWER POLE



PROFILE W1
SCALE: HORIZ. 1" = 5 FT
VERT. 1" = 1 FT

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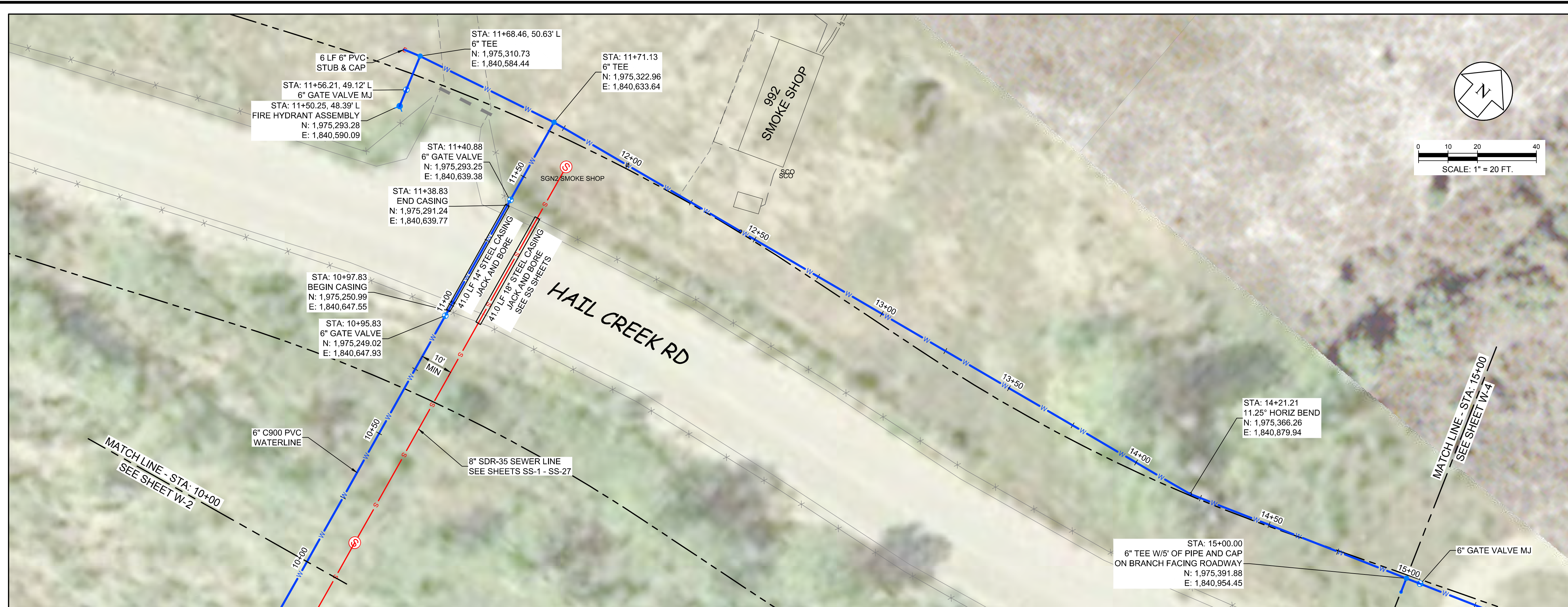
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LINE W1 - STA 5+00 TO 10+00



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Scale:	Horiz. 1" = 20 FT Vert. 1" = 5 FT	
Project No:	6223190	
Sheet:	W-2	



KEY MAP
NTS

LEGEND

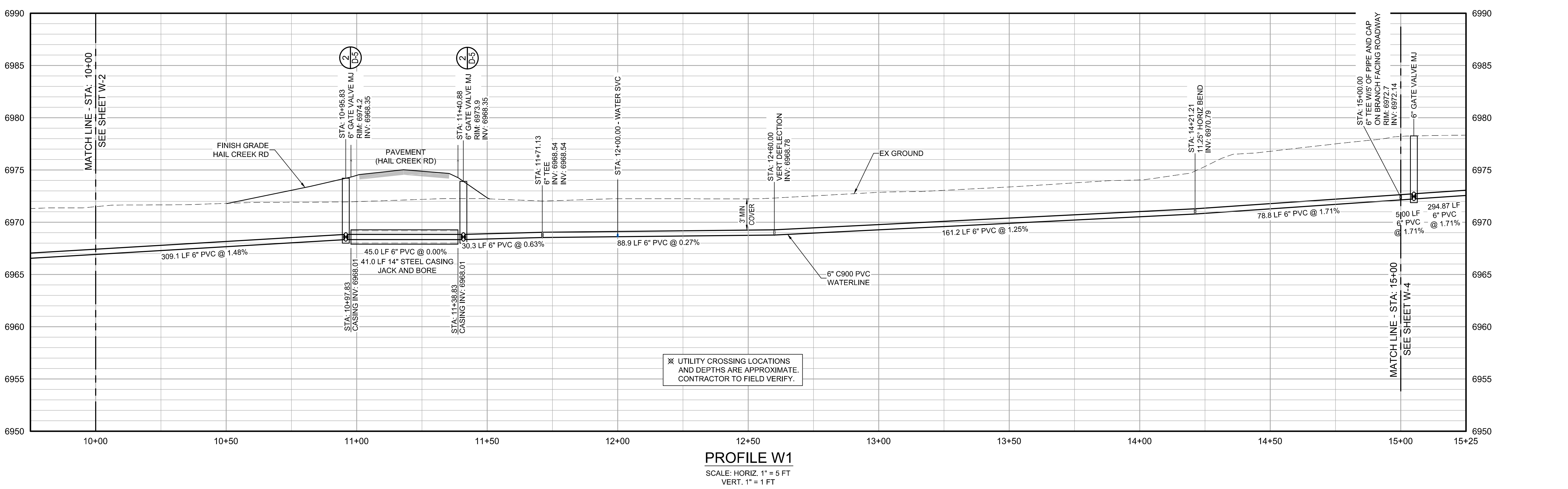
- S SANITARY SEWER
- FM FORCED MAIN
- SL SEWER LATERAL
- W WATERLINE
- ES ELECTRIC SERVICE
- EL ELECTRIC
- EL EX. ELECTRIC
- FO EX. FIBER OPTIC
- G EX. GAS
- SD EX. STORM DRAIN
- SMH SEWER MANHOLE
- LIFT LIFT STATION
- SC SEWER CLEANOUT
- MC MISC. CONNECTION
- CAV COMB. AIR VALVE
- GV GATE VALVE
- WM WATER METER
- FH FIRE HYDRANT
- PP POWER POLE

EXISTING PROPOSED

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WATERLINE PLAN & PROFILE
LINE W1 - STA 10+00 TO 15+00

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Sheet: **W-3**



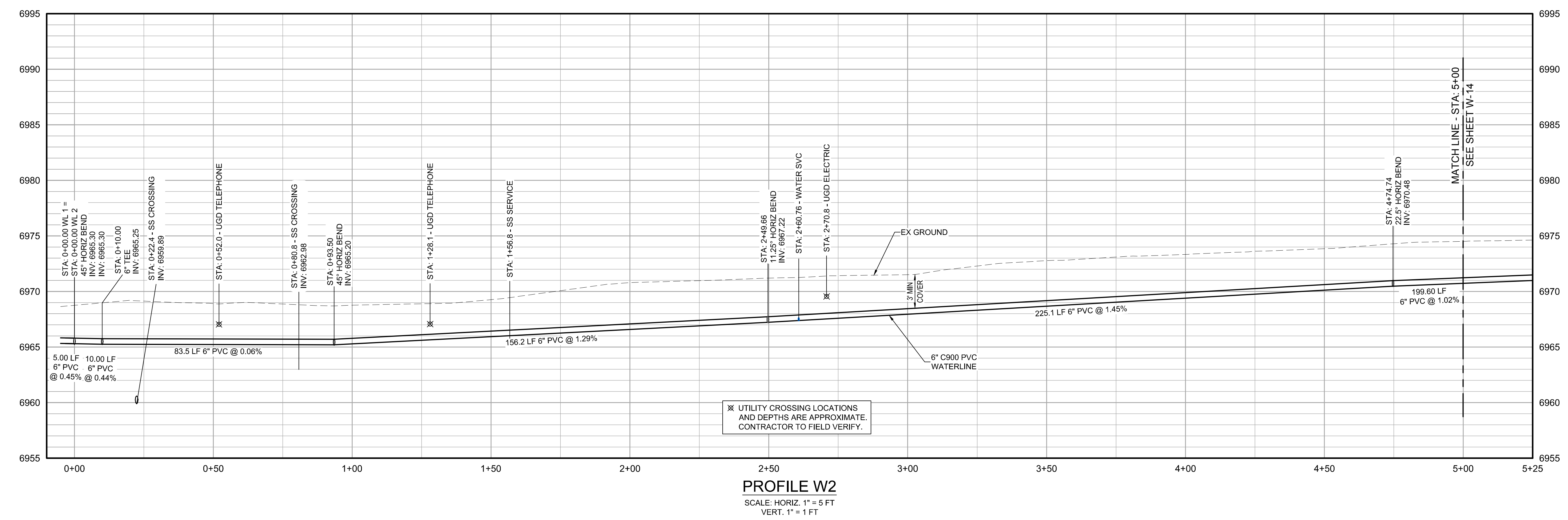
KEY MAP
NTS

LEGEND

- S SANITARY SEWER
- FM FORCED MAIN
- SEWER LATERAL
- W WATERLINE
- WATER SERVICE
- E ELECTRIC
- RIGHT-OF-WAY LINE
- EX. SEWER MAIN
- EX. WATER MAIN
- EX. WATER SERVICE
- T EX. TELEPHONE
- FO EX. FIBER OPTIC
- E EX. ELECTRIC
- G EX. GAS
- EX. STORM DRAIN

EXISTING: (various symbols)
PROPOSED: (various symbols)

- SEWER MANHOLE
- LIFT STATION
- SEWER CLEANOUT
- MISC. CONNECTION
- COMB. AIR VALVE
- GATE VALVE
- WATER METER
- FIRE HYDRANT
- POWER POLE



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LINE W2 - STA 0+00 TO 5+00



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Sheet: W-13



KEY MAP
NTS

LEGEND

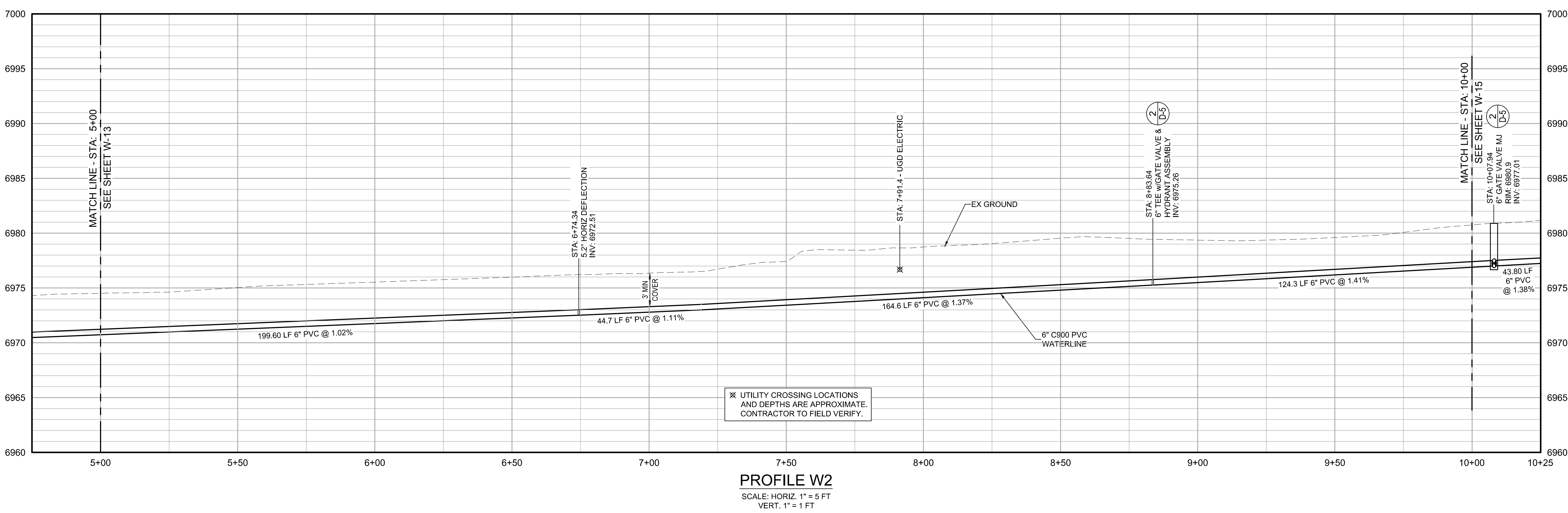
- S SANITARY SEWER
- FM FORCED MAIN
- SL SEWER LATERAL
- W WATERLINE
- WS WATER SERVICE
- E ELECTRIC
- RL RIGHT-OF-WAY LINE
- EX. SEWER MAIN
- EX. WATER MAIN
- EX. WATER SERVICE
- T EX. TELEPHONE
- FO EX. FIBER OPTIC
- E EX. ELECTRIC
- G EX. GAS
- EX. STORM DRAIN

EXISTING **PROPOSED**

- SEWER MANHOLE
- LIFT STATION
- SEWER CLEANOUT
- MISC. CONNECTION
- COMB. AIR VALVE
- GATE VALVE
- WATER METER
- FIRE HYDRANT
- POWER POLE

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WATER & WASTEWATER EXPANSION
WATERLINE PLAN & PROFILE
LINE W2 - STA 5+00 TO 10+00

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Sheet: W-14



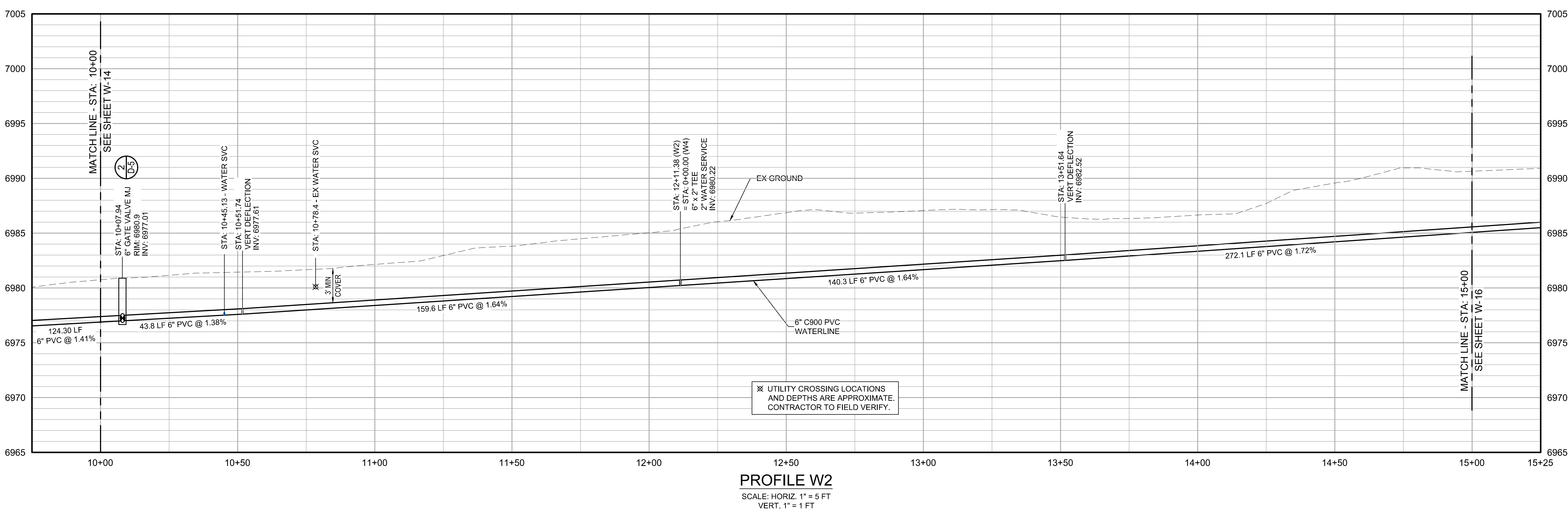
KEY MAP
NTS

LEGEND

- S SANITARY SEWER
- FM FORCED MAIN
- SL SEWER LATERAL
- W WATERLINE
- WS WATER SERVICE
- E ELECTRIC
- ROW RIGHT-OF-WAY LINE
- EX-SW EX. SEWER MAIN
- EX-WM EX. WATER MAIN
- EX-WTS EX. WATER SERVICE
- T EX. TELEPHONE
- FO EX. FIBER OPTIC
- E EX. ELECTRIC
- G EX. GAS
- SD EX. STORM DRAIN
- SM SEWER MANHOLE
- LS LIFT STATION
- SC SEWER CLEANOUT
- MC MISC. CONNECTION
- CA COMB. AIR VALVE
- GV GATE VALVE
- WM WATER METER
- FH FIRE HYDRANT
- PP POWER POLE

EXISTING: (solid lines and symbols)
PROPOSED: (dashed lines and symbols)

SCALE: 1" = 20 FT.



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WATERLINE PLAN & PROFILE
LINE W2 - STA 10+00 TO 15+00



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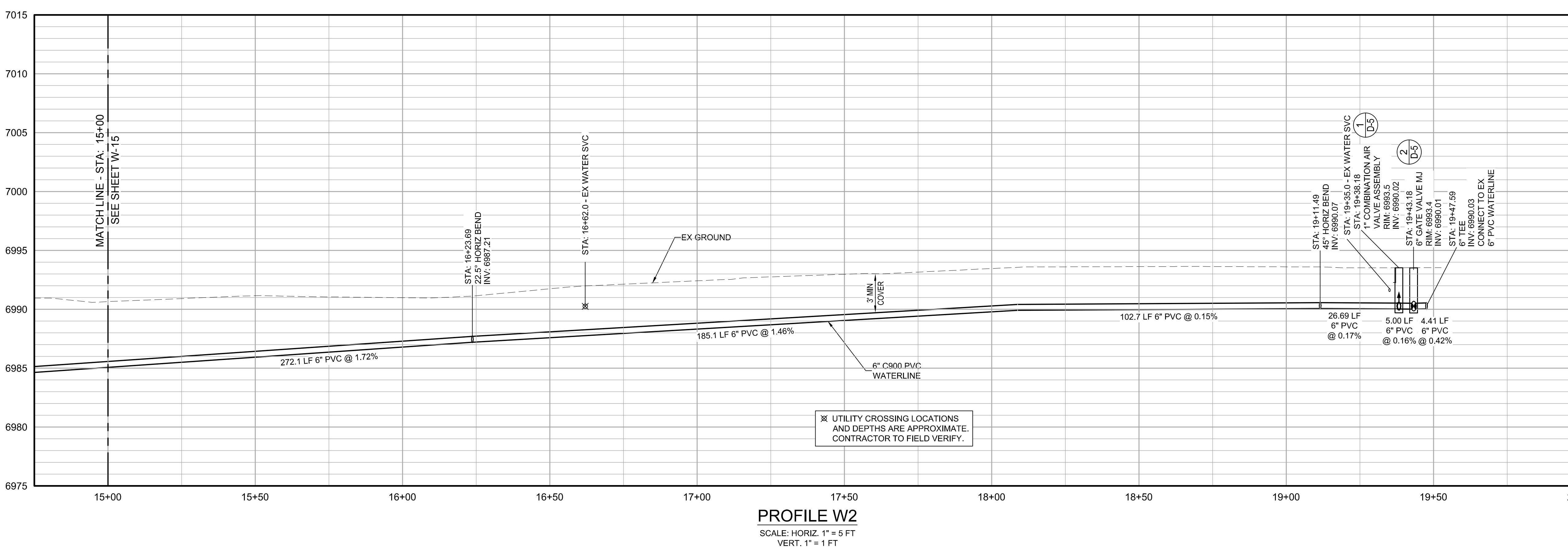
KEY MAP
NTS

LEGEND

- S SANITARY SEWER
- FM FORCED MAIN
- S-S SEWER LATERAL
- W WATERLINE
- W-W WATER SERVICE
- E ELECTRIC
- FO FIBER OPTIC
- G GAS
- SD STORM DRAIN
- EX EXISTING
- PROPOSED
- SMH SEWER MANHOLE
- LS LIFT STATION
- SC SEWER CLEANOUT
- MC MISC. CONNECTION
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- WM WATER METER
- FH FIRE HYDRANT
- PP POWER POLE

Rev #	Date	Description

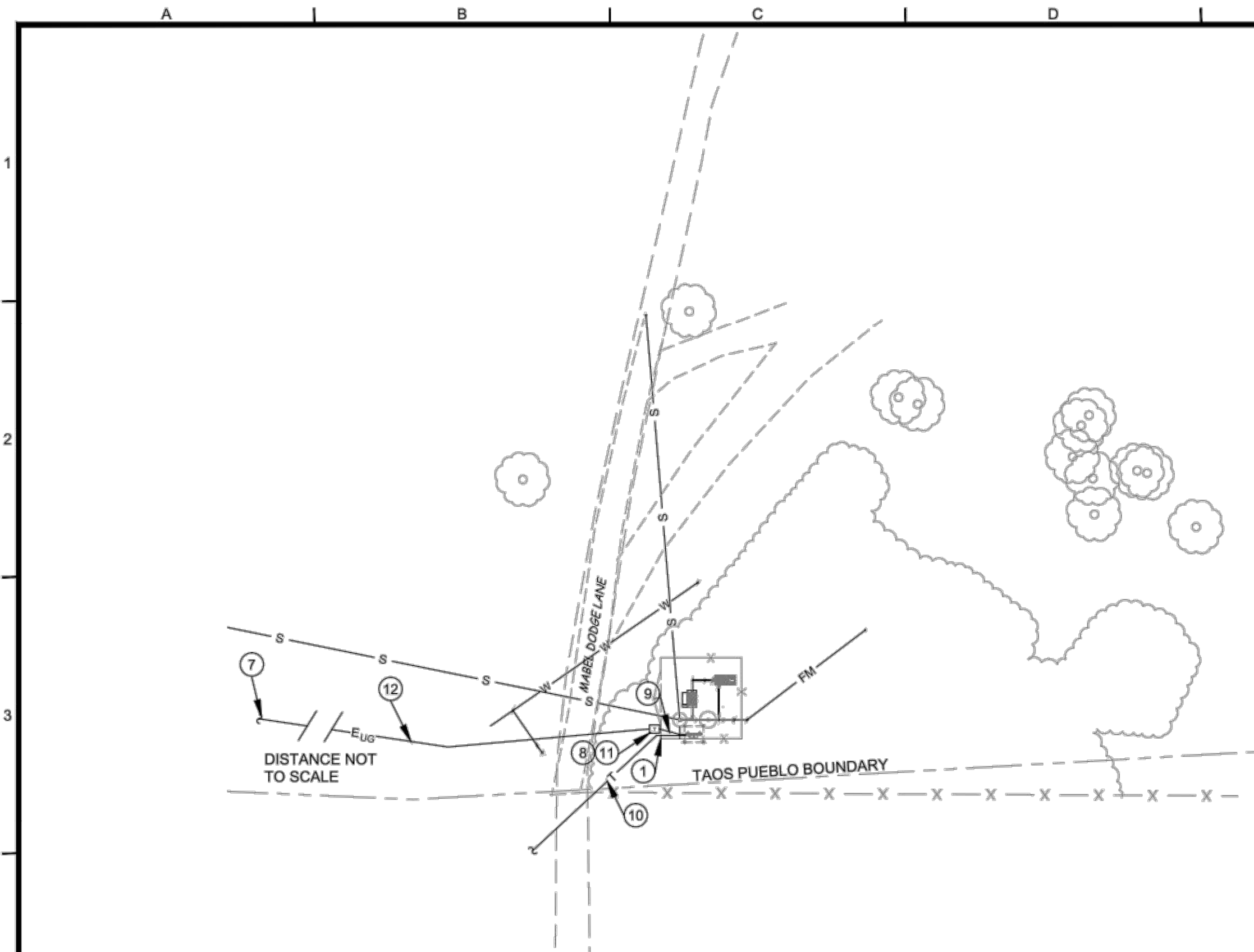
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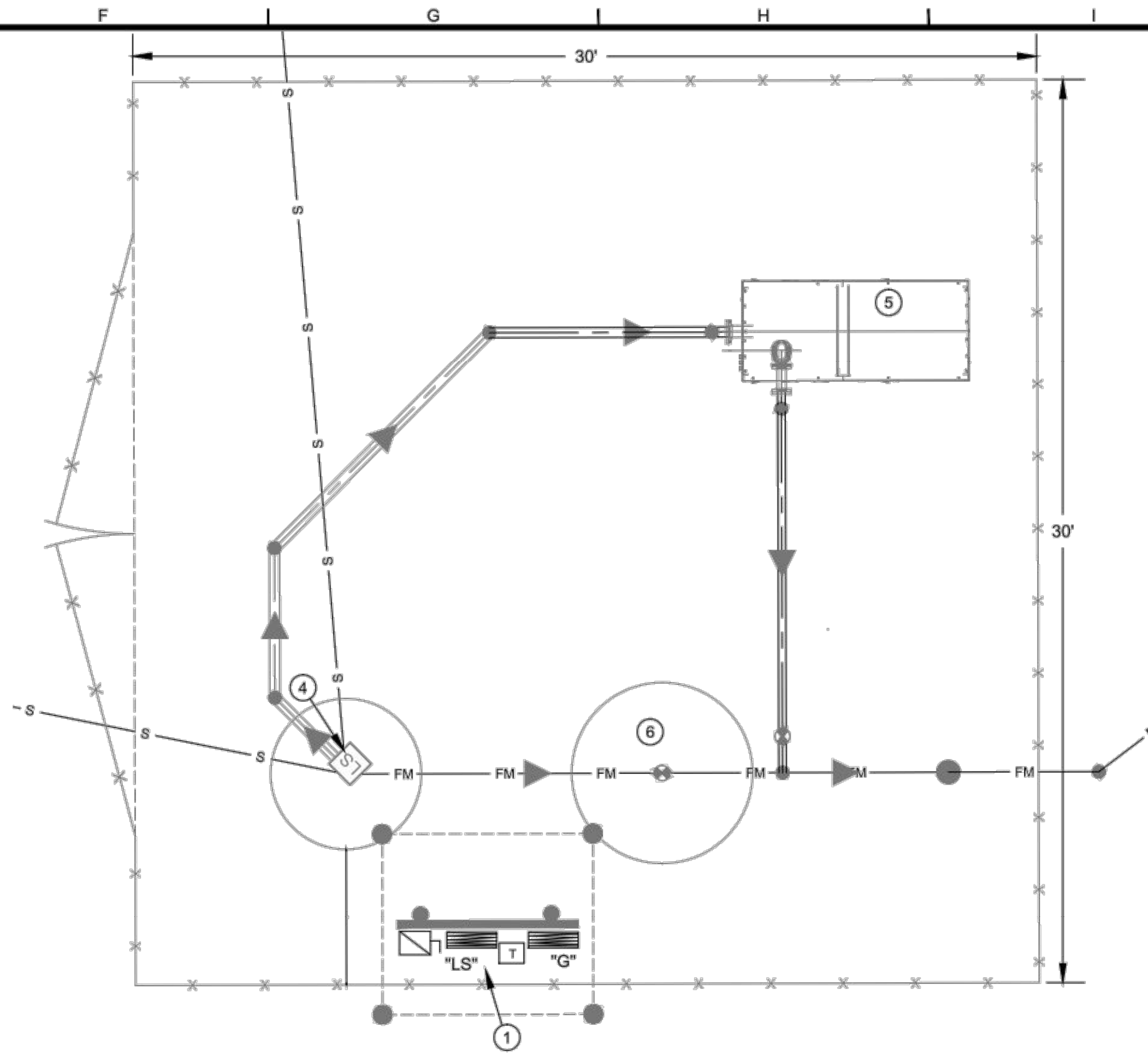
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TAOS PUEBLO, NM
TAOS PUEBLO
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WATERLINE PLAN & PROFILE
LINE W2 - STA 15+00 TO 19+50

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Sheet: W-16

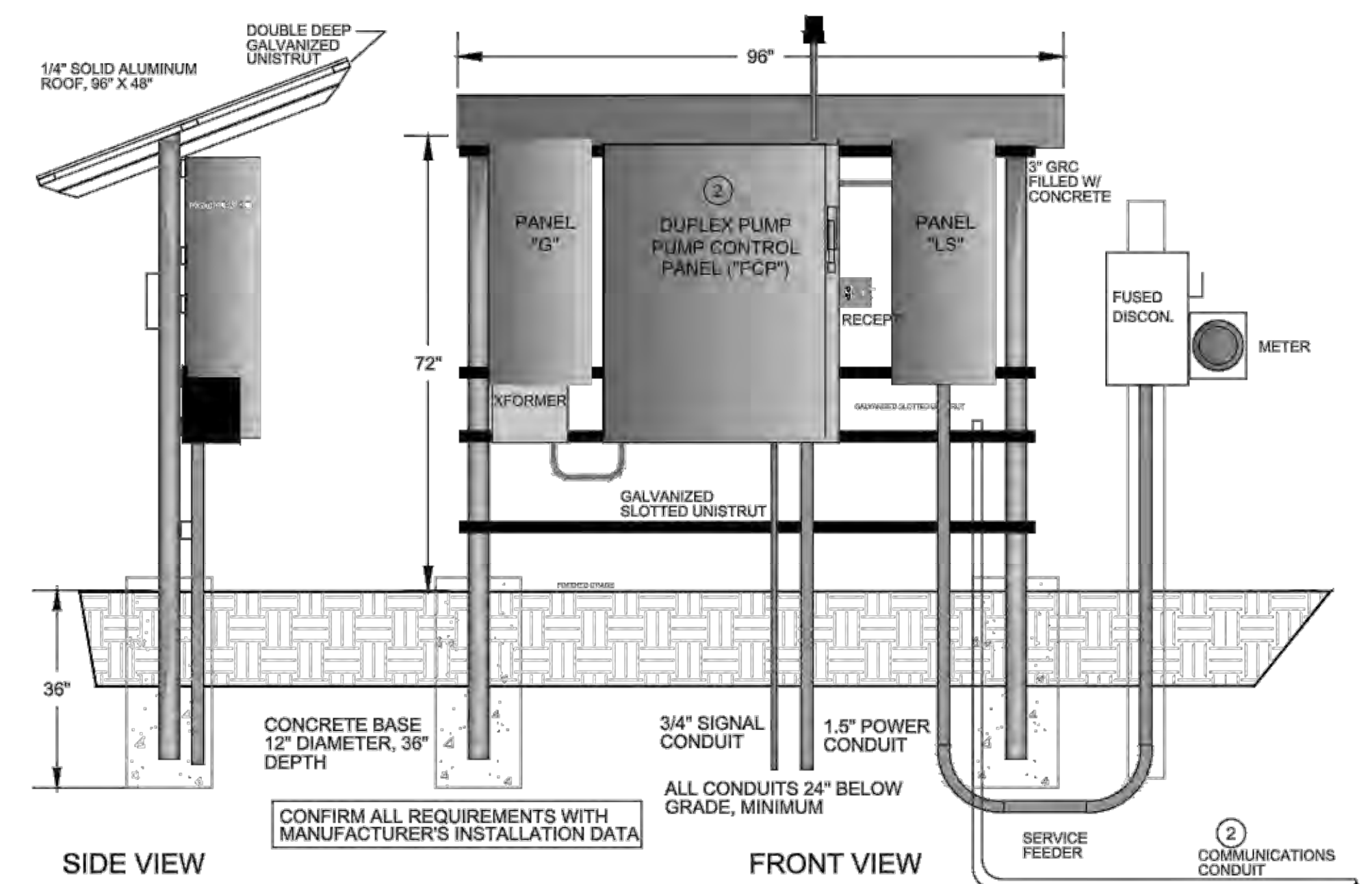


1 ELECTRICAL SITE PLAN
SCALE: 1" = 40'-0"

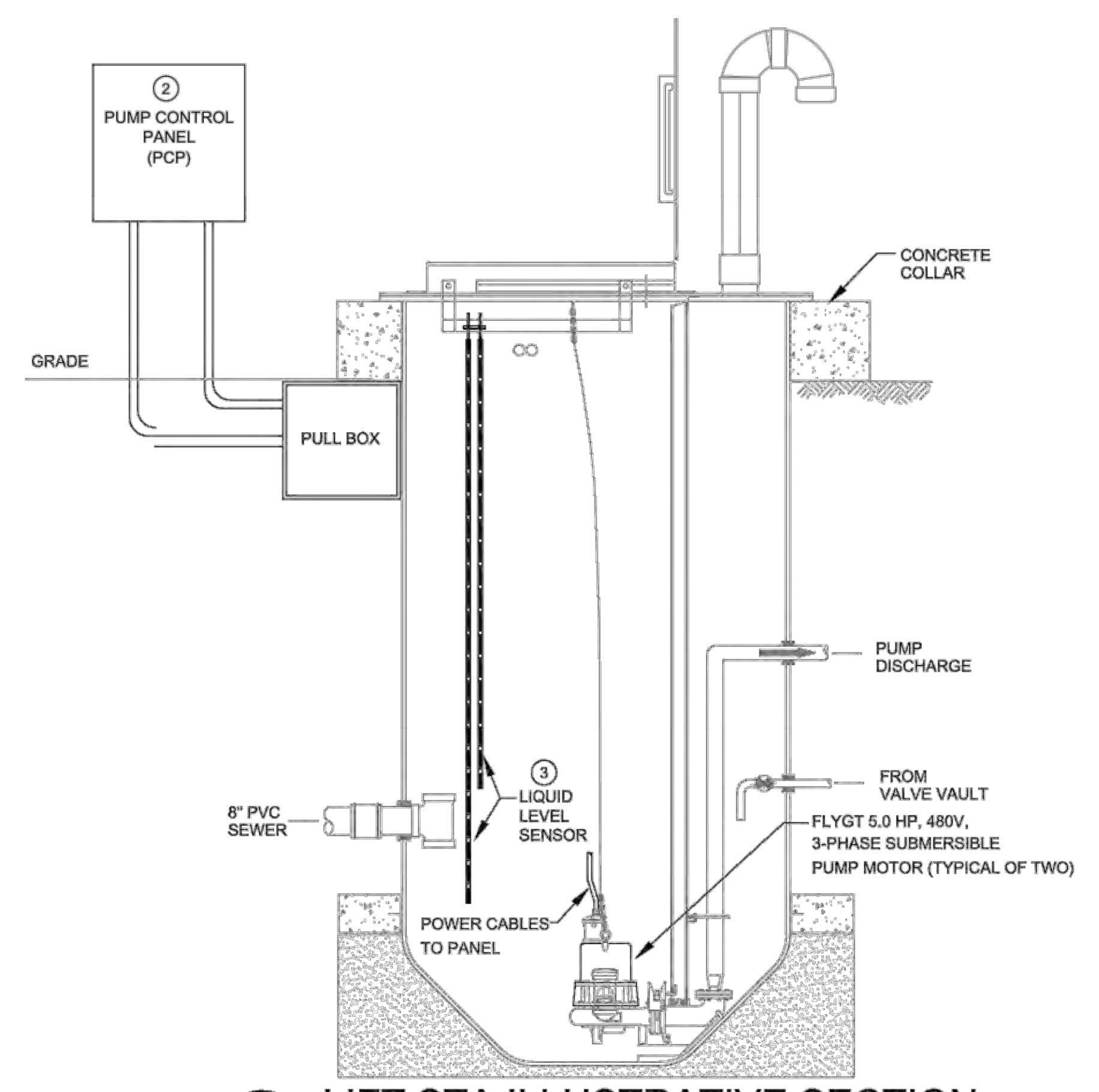


2 LIFT STA ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

- ELECTRICAL KEYED NOTES:**
- SERVICE ENTRANCE EQUIPMENT ON FREESTANDING UNISTRUT RACK. REFER TO POWER RISER DIAGRAM AND PUMP CONTROL PANEL DETAIL.
 - PUMP CONTROL PANEL PROVIDED BY PUMP SUPPLIER WITH SINGLE-POINT 480V, 3-PHASE INPUT. REFER TO CONTROL PANEL DETAIL. MAKE ALL FINAL CONNECTIONS PER MANUFACTURERS RECOMMENDATIONS FOR A COMPLETELY OPERATIONAL SYSTEM.
 - CONNECT LIQUID LEVEL SENSOR CONTROLS AS REQUIRED BY MANUFACTURER FOR A COMPLETELY OPERATIONAL SYSTEM.
 - LIFT STATION (LS) HAS TWO 5.0 HP PUMP MOTORS, REFER TO ILLUSTRATIVE SECTION.
 - DIESEL POWERED BACK-UP TRASH PUMP, REFER TO SPECIFICATIONS. CONNECT 120V LEVEL SENSING CONTROLS, BLOCK HEATER, AND TRICKLE CHARGER PER MANUFACTURER REQUIREMENTS AS NECESSARY FOR A COMPLETELY OPERATIONAL SYSTEM.
 - VALVE VAULT.
 - REFER TO E-3 FOR PROPOSED LOCATION FOR NEW UTILITY PRIMARY ELECTRICAL POINT OF CONNECTION (APPROX. 840 FT. FROM PROPOSED TRANSFORMER LOCATION), EXACT LOCATION TO BE COORDINATED WITH PUEBLO OF TAOS. NO OVERHEAD POWER LINES ALLOWED WITHIN THE BOUNDARY OF PUEBLO OF TAOS. INSTALL PULL BOX PER UTILITY COMPANY REQUIREMENTS.
 - PROPOSED LOCATION FOR NEW UTILITY-OWNED, PAD MOUNT, 3-PHASE SERVICE TRANSFORMER WITH 480/277V SECONDARY. EXACT LOCATION OF TRANSFORMER TO BE COORDINATED WITH PUEBLO OF TAOS AND UTILITY COMPANY. NO OVERHEAD POWER LINES ALLOWED WITHIN THE BOUNDARY OF PUEBLO OF TAOS. REFER TO TRENCHING DETAIL. COORDINATE ALL ELECTRICAL UTILITY MATERIAL AND LABOR REQUIREMENTS WITH KIT CARSON ELECTRIC COOP (KCEC), CONTACT RICK LEON, PH. (575) 758-2258 EXT. 172.
 - SECONDARY UNDERGROUND ELECTRICAL SERVICE FEEDER, REFER TO POWER RISER DIAGRAM.
 - FURNISH COMMUNICATION LINE/PHONE LINE IN 2" CONDUIT, COORDINATE WITH LOCAL TELEPHONE COMPANY.
 - INSTALL TRANSFORMER AND METER ASSEMBLY ON CONCRETE PAD PER DETAIL. LABEL METER WITH BILLING ADDRESS. TRANSFORMER SHALL BE LOCATED OUTSIDE FENCE LINE, COORDINATE WITH LOCAL UTILITY COMPANY.
 - PRIMARY UNDERGROUND ELECTRICAL SERVICE FEEDER, REFER TO POWER RISER DIAGRAM AND 3-PHASE CONDUIT INSTALLATION DETAIL. COORDINATE MATERIAL PURCHASE REQUIREMENTS WITH LOCAL UTILITY COMPANY.



3 PUMP CONTROL PANEL DETAIL
SCALE: NONE



4 LIFT STA ILLUSTRATIVE SECTION
SCALE: NONE

ELECTRICAL SYMBOL LEGEND
(ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

SYMBOL	DESCRIPTION
T	CONDUCTOR TICK MARKS: NEUTRAL, PHASE, SWITCHED, GROUND, AND ISOLATED GROUND RESPECTIVELY.
⊙	CEILING JUNCTION BOX
⊙	WALL JUNCTION BOX
⊙#	DUPLEX RECEPTACLE, # INDICATES CIRCUIT. INSTALL UP 18" AFF TO CENTER UNLESS NOTED OTHERWISE.
⊙	EXTERIOR GFCI-TYPE DUPLEX RECEPTACLE WITH WEATHER-RESISTANT COVER
— —	SURFACE MOUNTED PANELBOARD, REFER TO ASSOCIATED PANEL SCHEDULE.
60/3/45	FUSED DISCONNECT SWITCH, NEMA 3R IF OUTSIDE, AMPS/POLES/FUSE INDICATED.
BSD	BARE SOFT-DRAWN.
O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED.
E ^{OH}	OVERHEAD PRIMARY ELECTRICAL LINE.
E _{UG}	PRIMARY ELECTRICAL UNDERGROUND FEEDER.
E.G.R.	EQUIPMENT GROUND.
AFF	ABOVE FINISH FLOOR.
WR	WEATHER-RESISTANT.
GFCI	GROUND FAULT CIRCUIT INTERRUPTER.

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Consulting Engineers

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TAOS PUEBLO, NM

**TAOS PUEBLO UTILITY EXTENSION
WATER & WASTEWATER EXPANSION
ELECTRICAL PLANS & DETAILS**

DESIGNED: HN
DRAWN: HN
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Project No: 6223190
Sheet: E-1

LEGEND

- S SANITARY SEWER
- FM FORCED MAIN
- SEWER LATERAL
- W WATERLINE
- E ELECTRIC LINE
- WATER SERVICE
- RIGHT-OF-WAY LINE
- S EX. SEWER MAIN
- W EX. WATER MAIN
- T EX. TELEPHONE
- G EX. GAS
- E EX. ELECTRIC
- EX. STORM DRAIN

EXISTING PROPOSED

- SEWER MANHOLE
- LIFT STATION
- SEWER CLEANOUT
- MISC. CONNECTION
- COMB. AIR VALVE
- GATE VALVE
- WATER METER
- FIRE HYDRANT
- POWER POLE

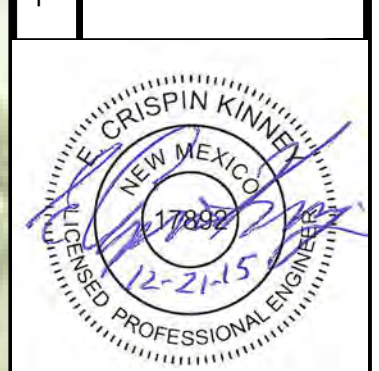


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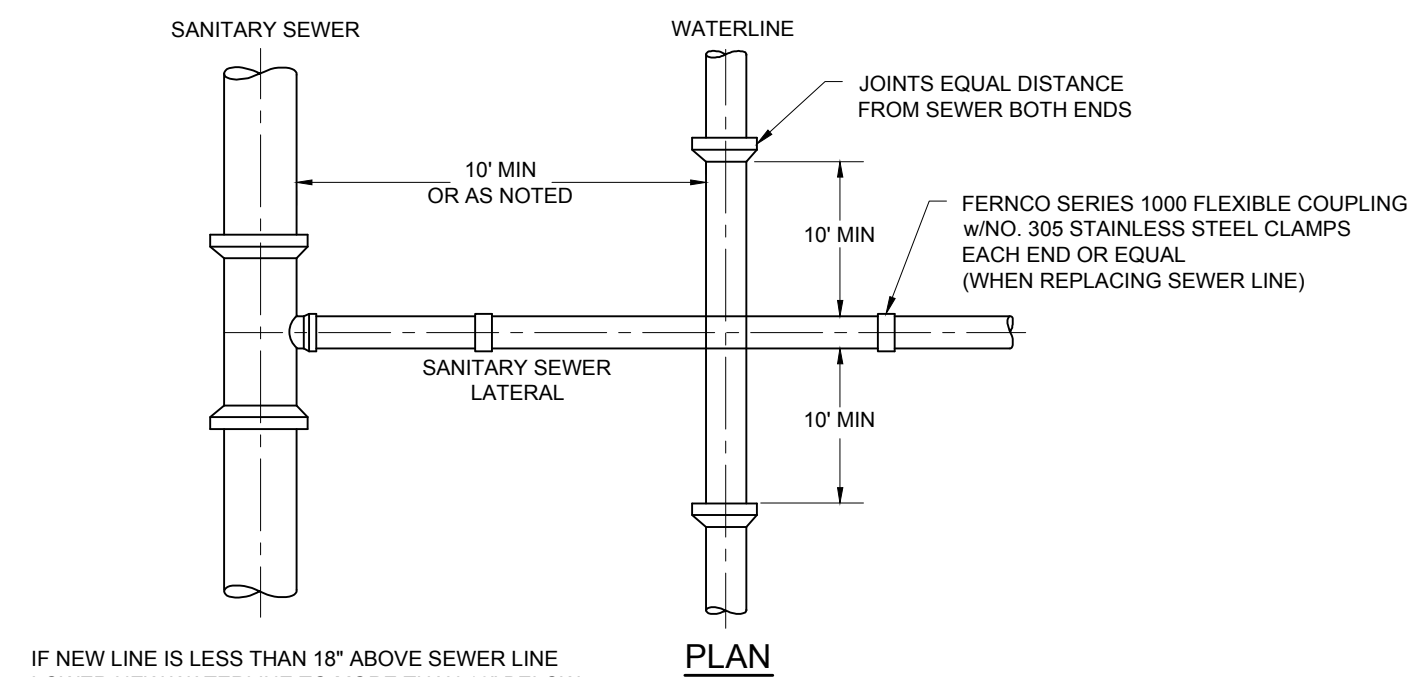
TAOS PUEBLO, NM

**TAOS PUEBLO
 WATER & WASTEWATER EXPANSION
 ELECTRICAL PLANS**

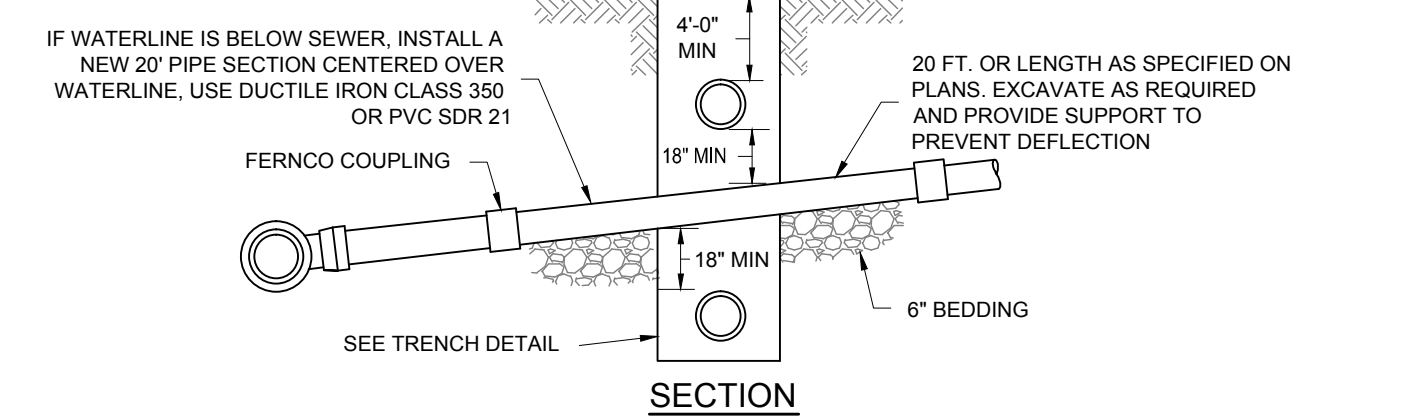


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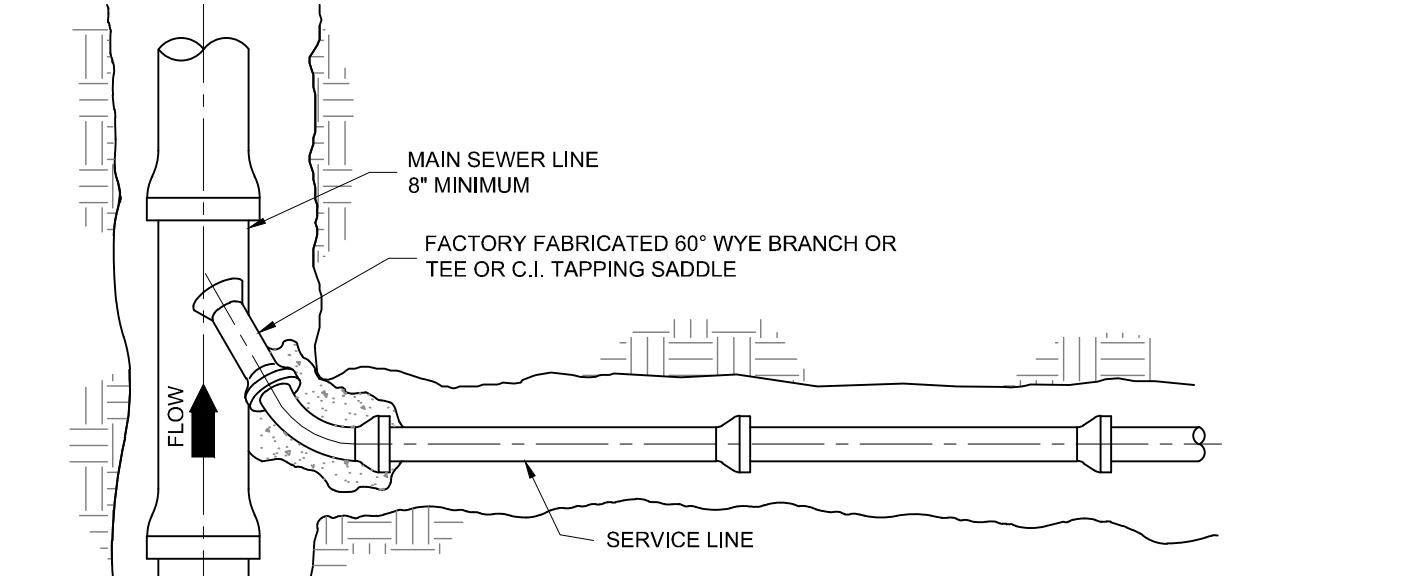
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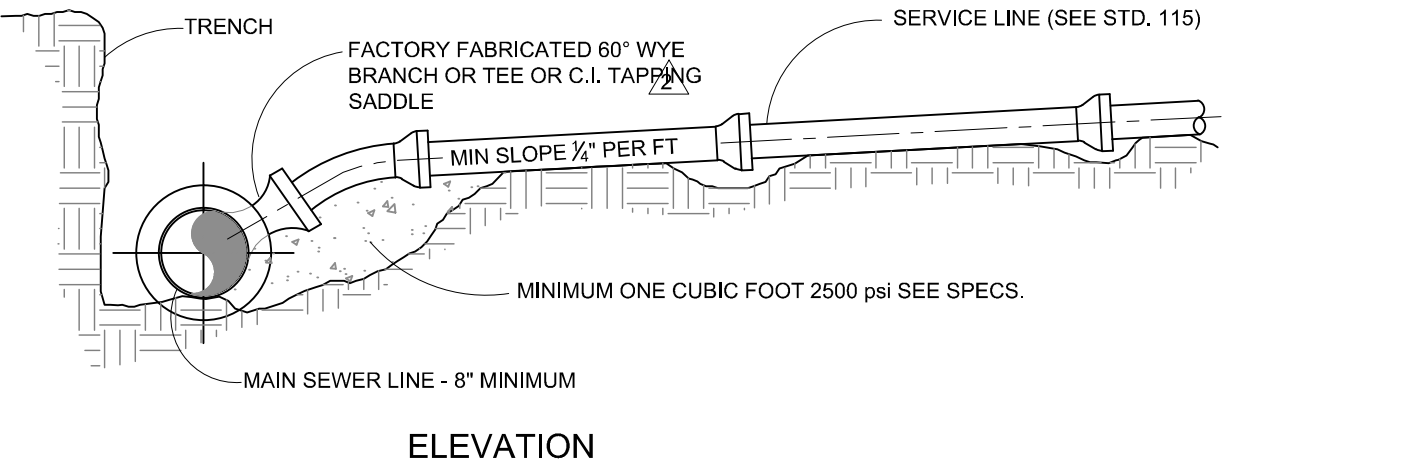
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NOT TO SCALE



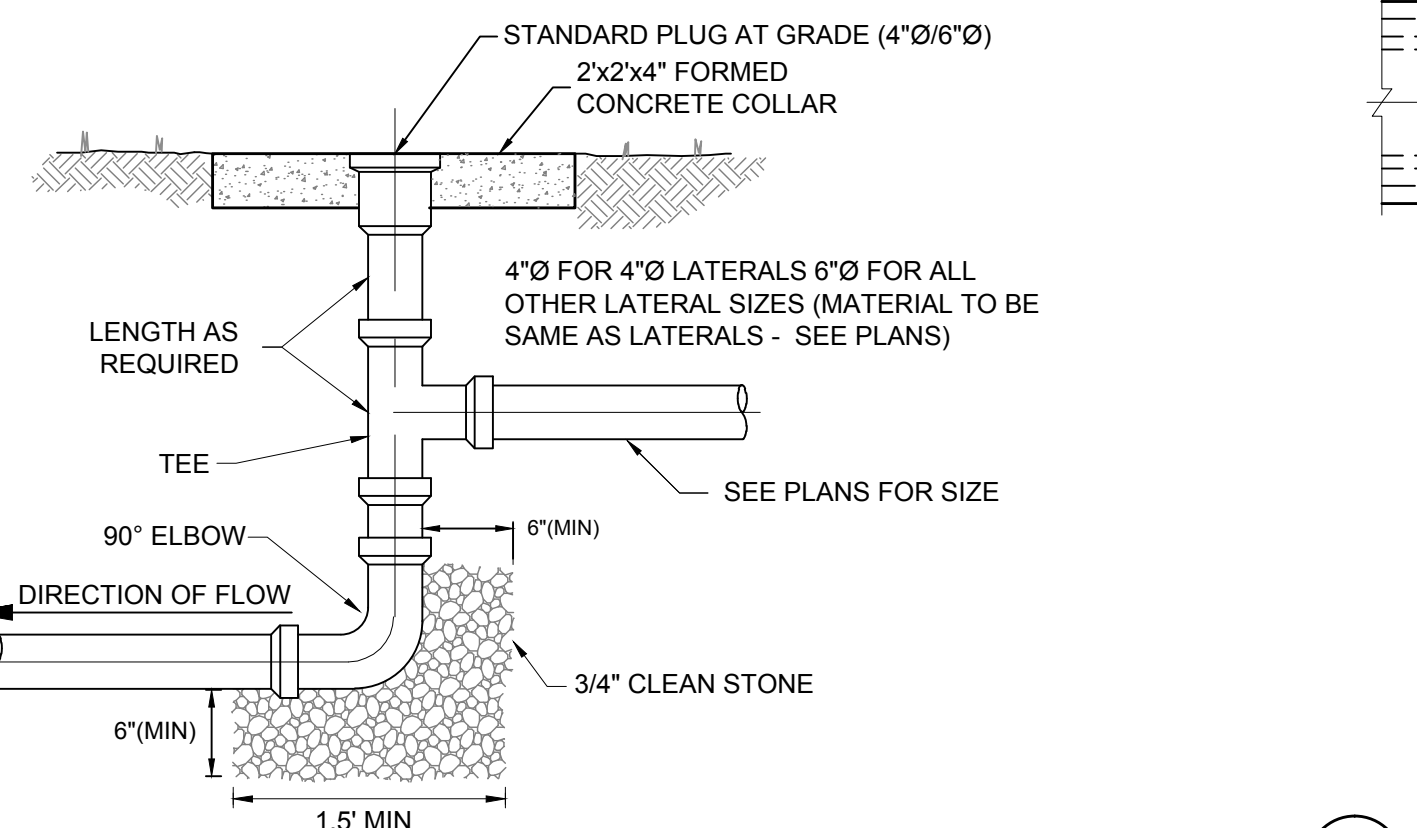
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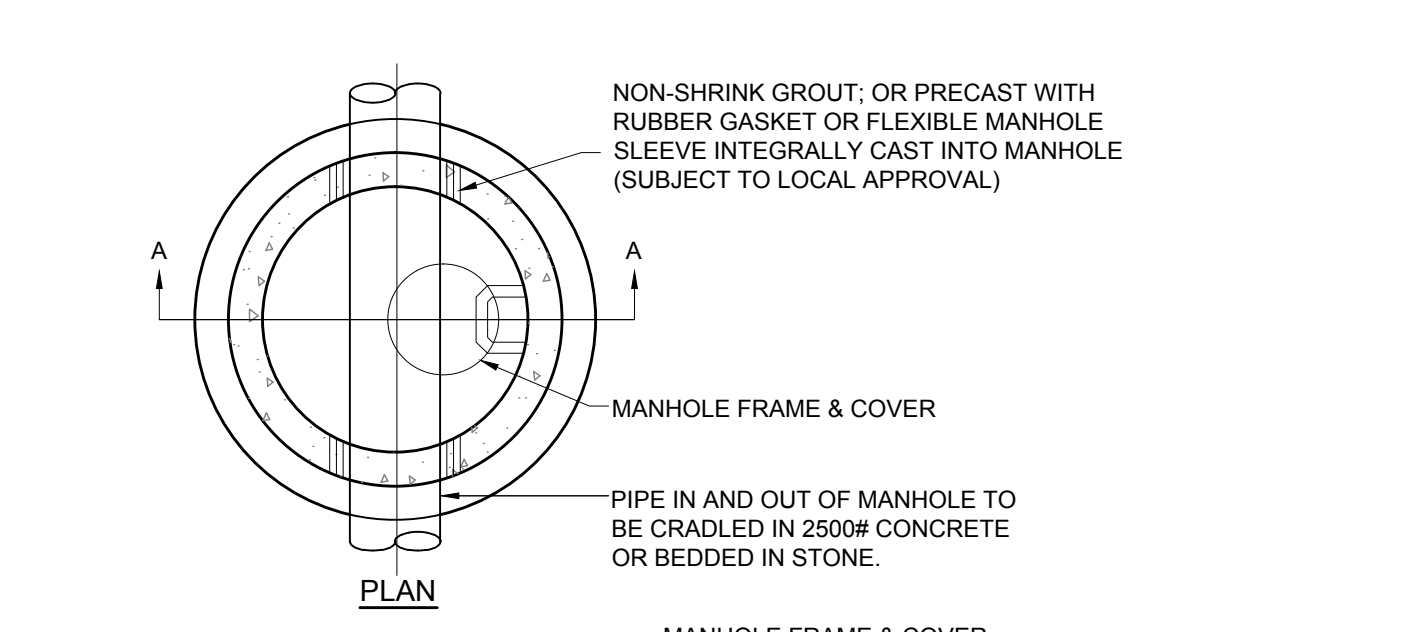
3 SEWER MANHOLE FRAME & COVER
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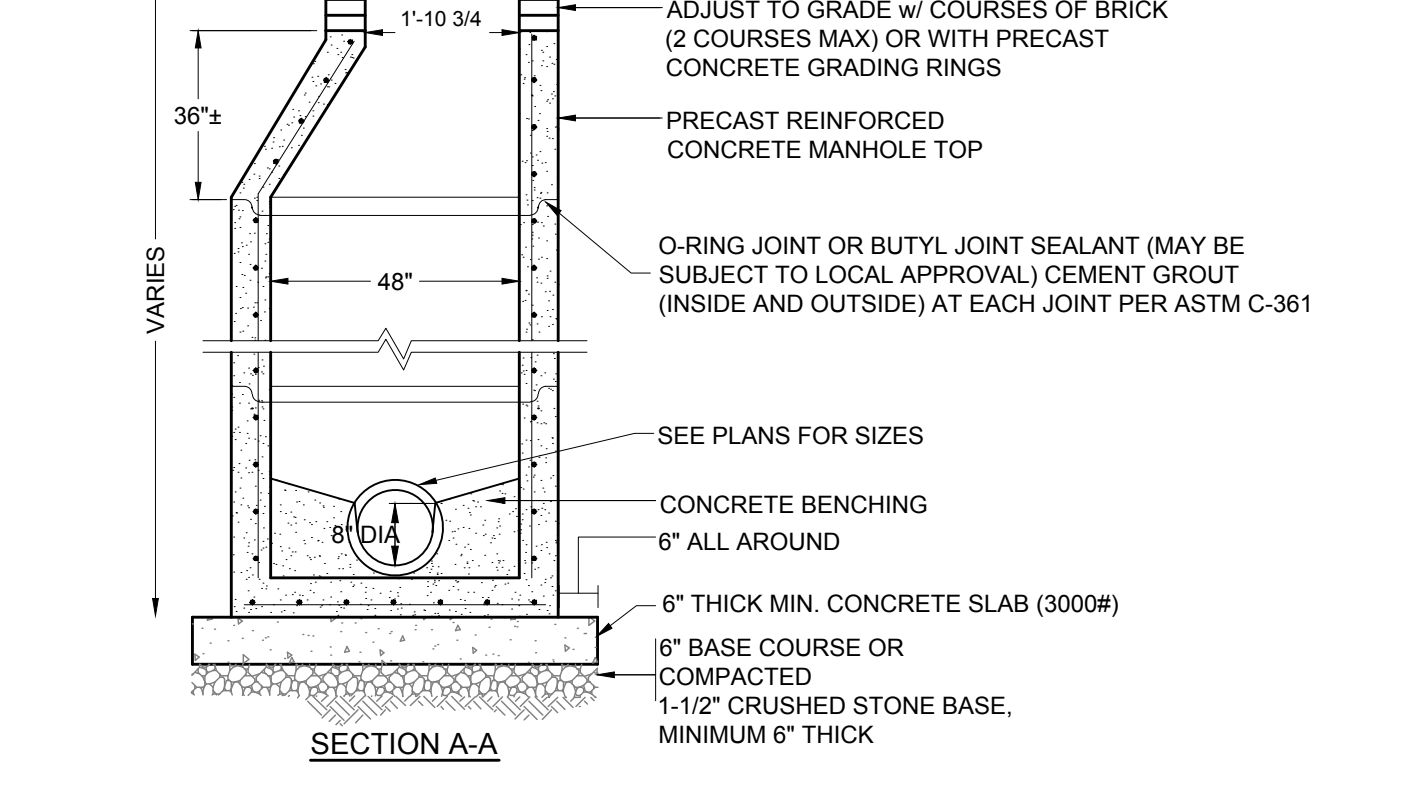
4 TEE OR WYE CONNECTION
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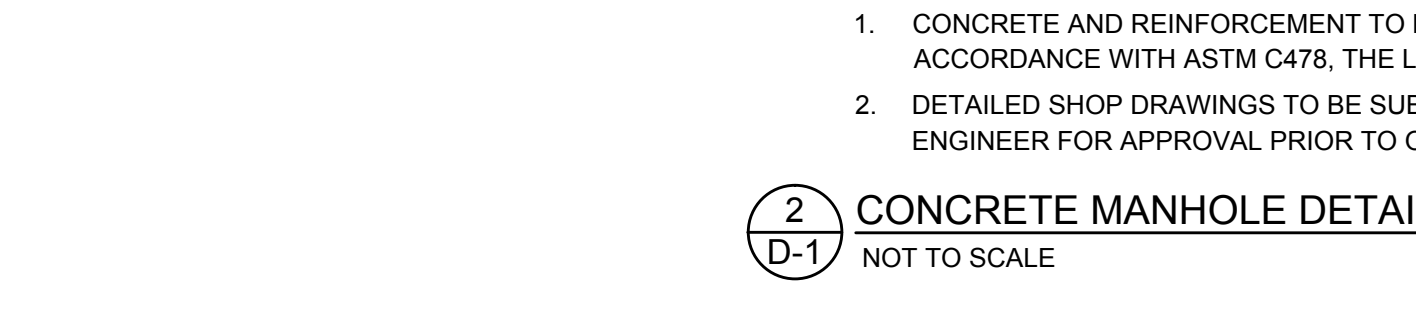
5 CLEANOUT (DROP CONNECTION)
NOT TO SCALE



6 SEWER ENCASEMENT DETAILS
NOT TO SCALE



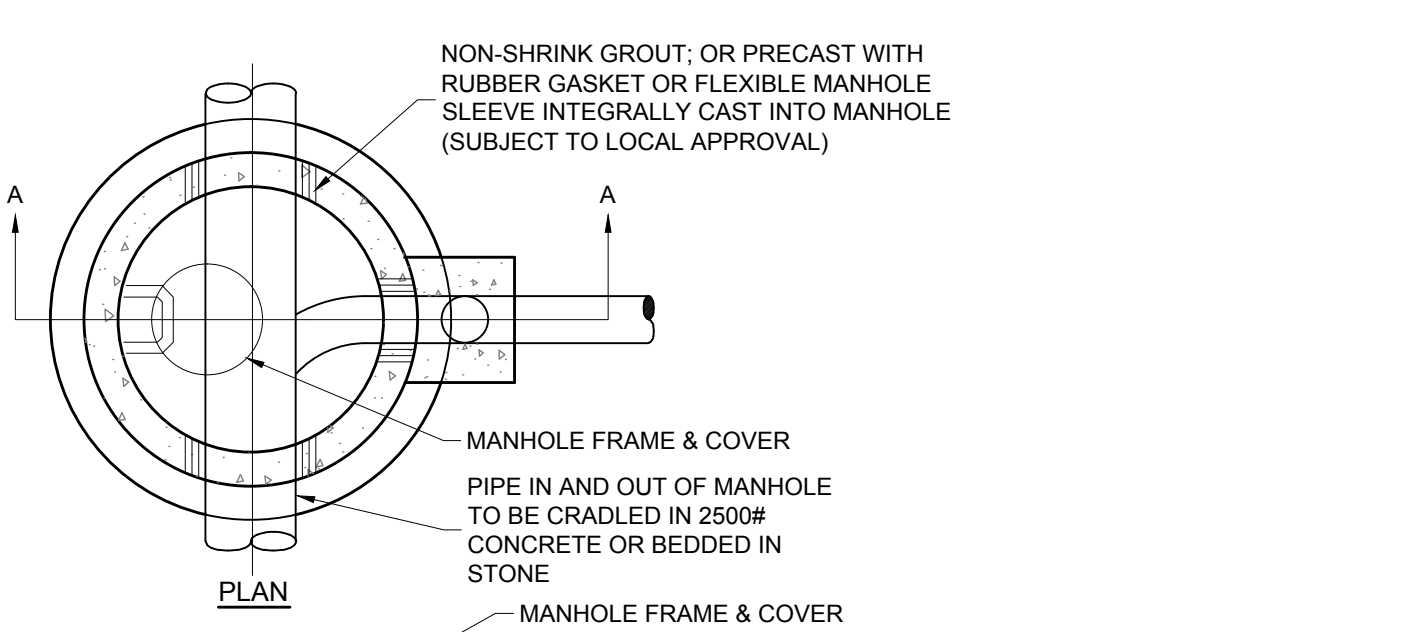
7 CONCRETE MANHOLE (TYPE E)
NTS



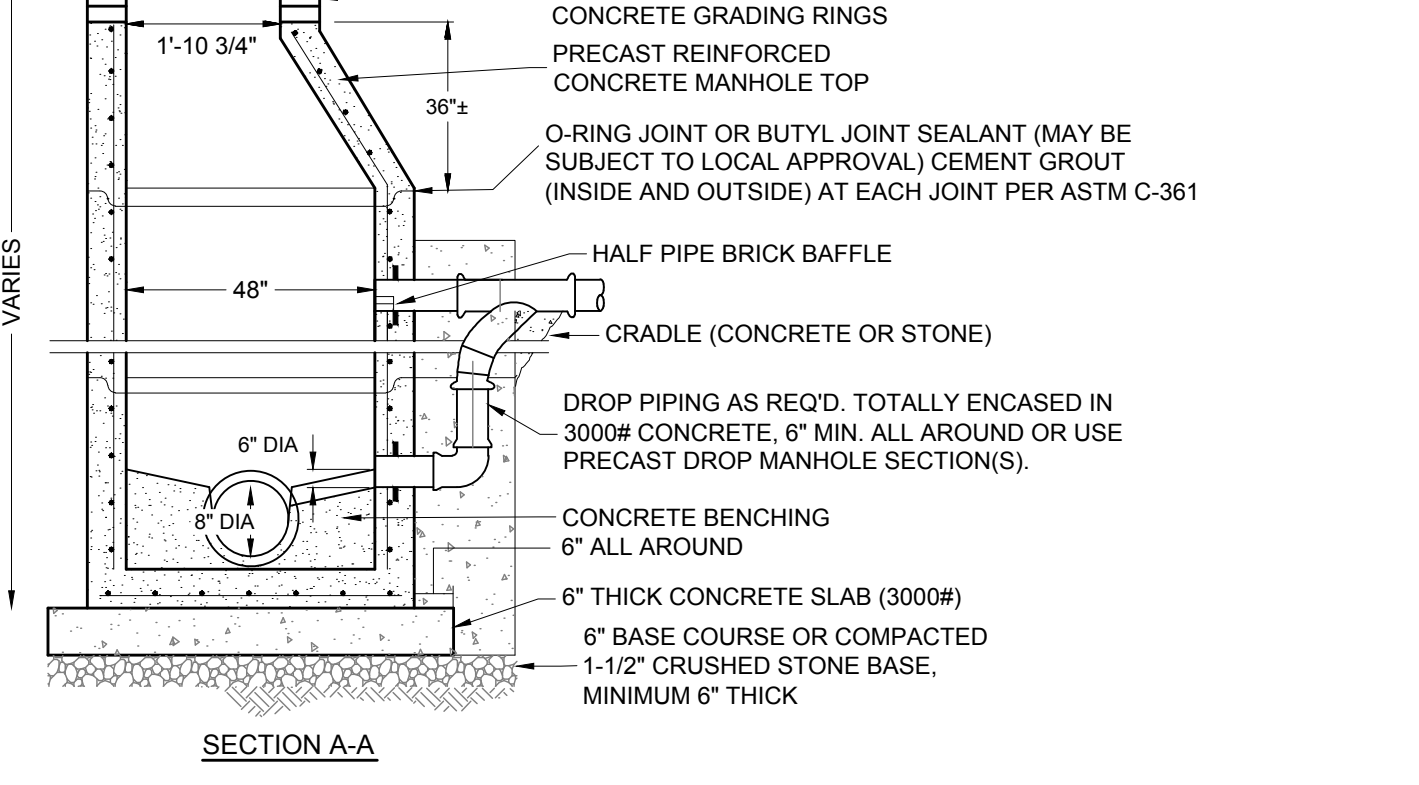
8 DOUBLE CLEANOUT (IN-LINE)
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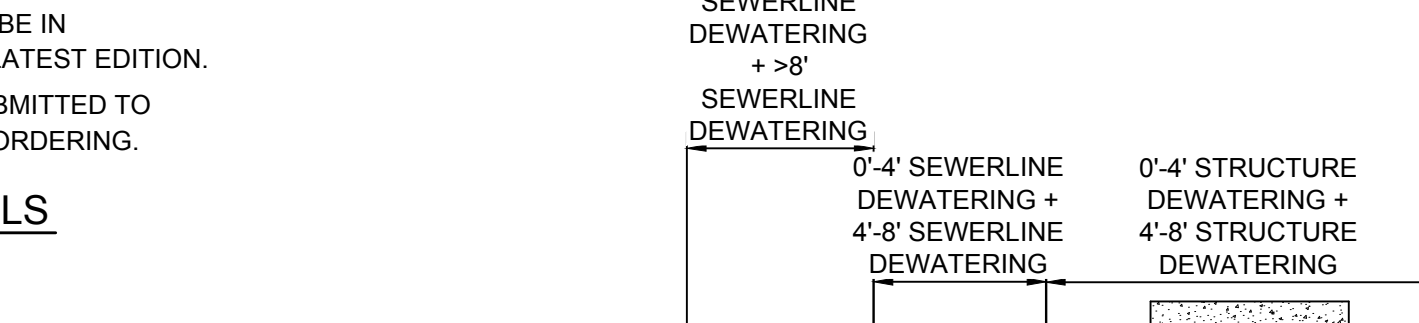
9 CLEANOUT (TERMINAL)
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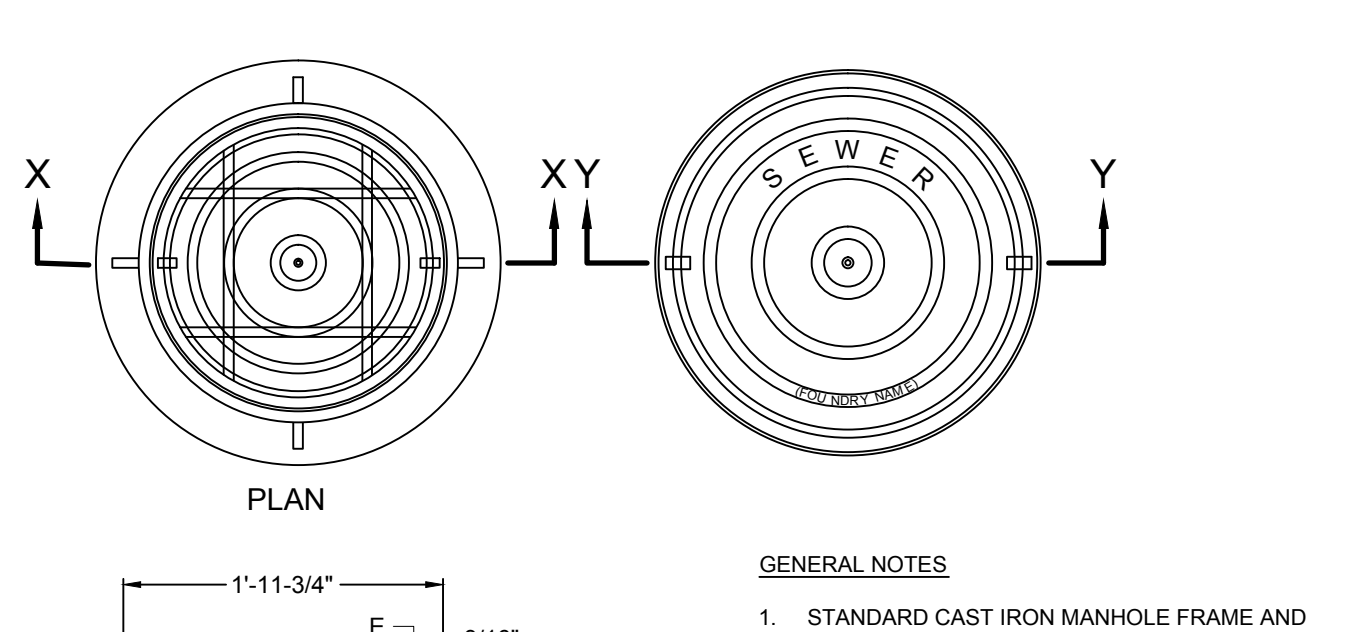
10 DEWATERING DETAIL
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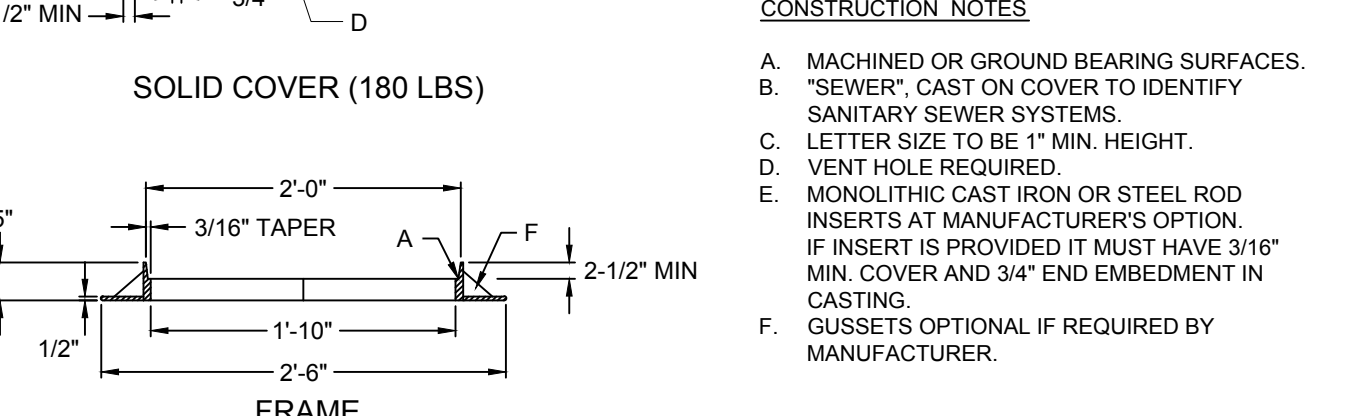
NOTES:



NOTES:



GENERAL NOTES:



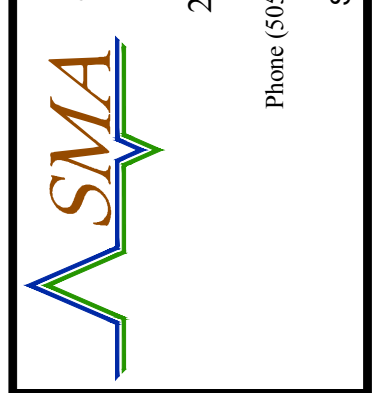
CONSTRUCTION NOTES:



CONSTRUCTION NOTES:

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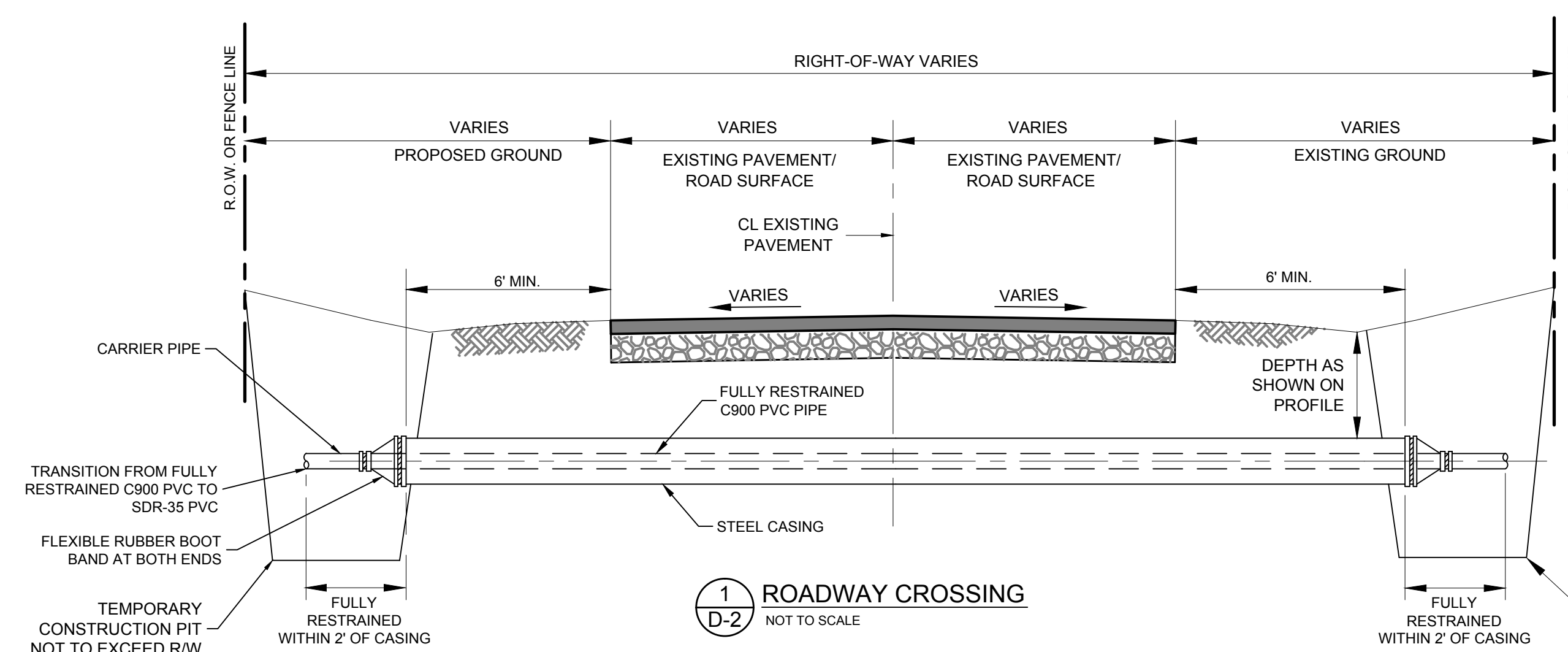


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TAOS PUEBLO WATER & WASTEWATER EXPANSION SEWER DETAILS (1)

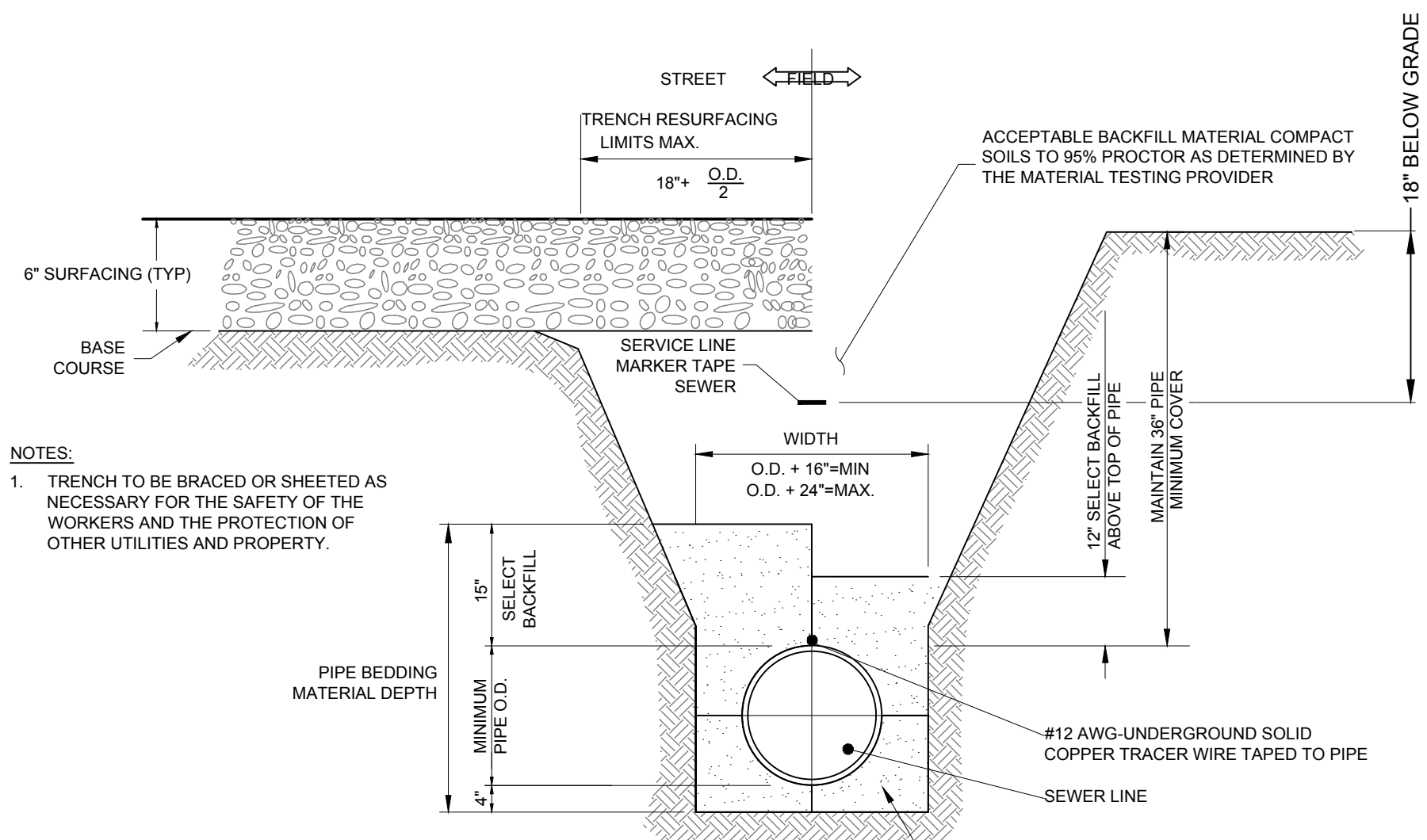


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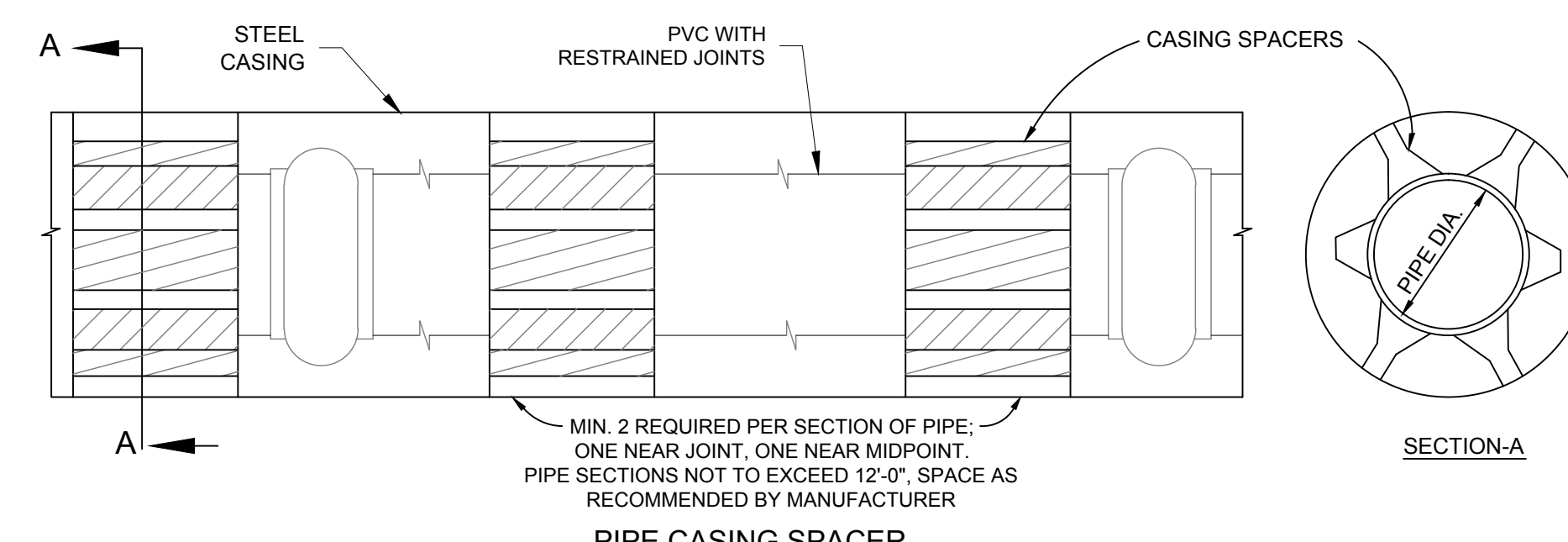
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Project No: 6223190	Sheet: D-1	



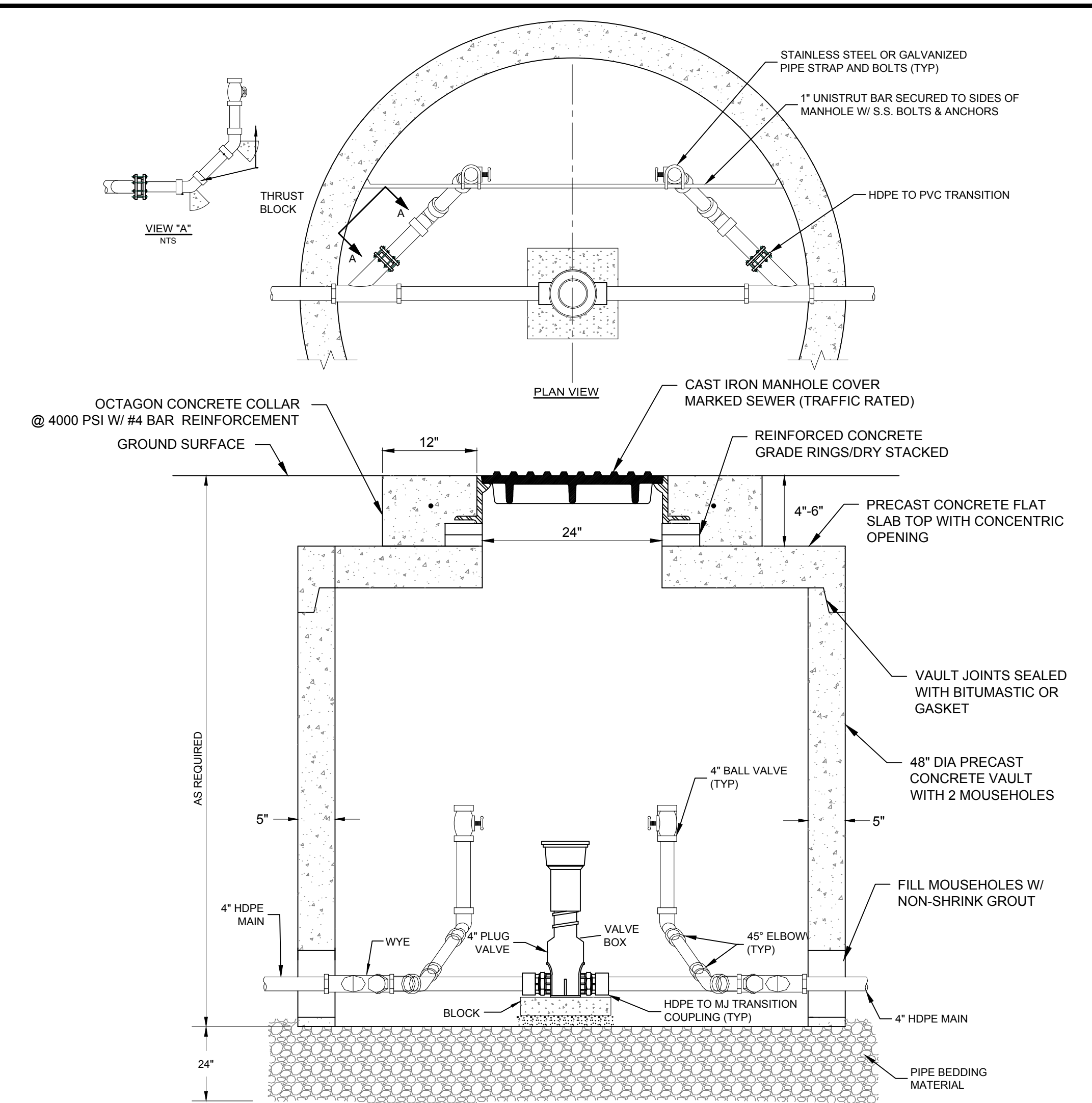
1 ROADWAY CROSSING
D-2 NOT TO SCALE



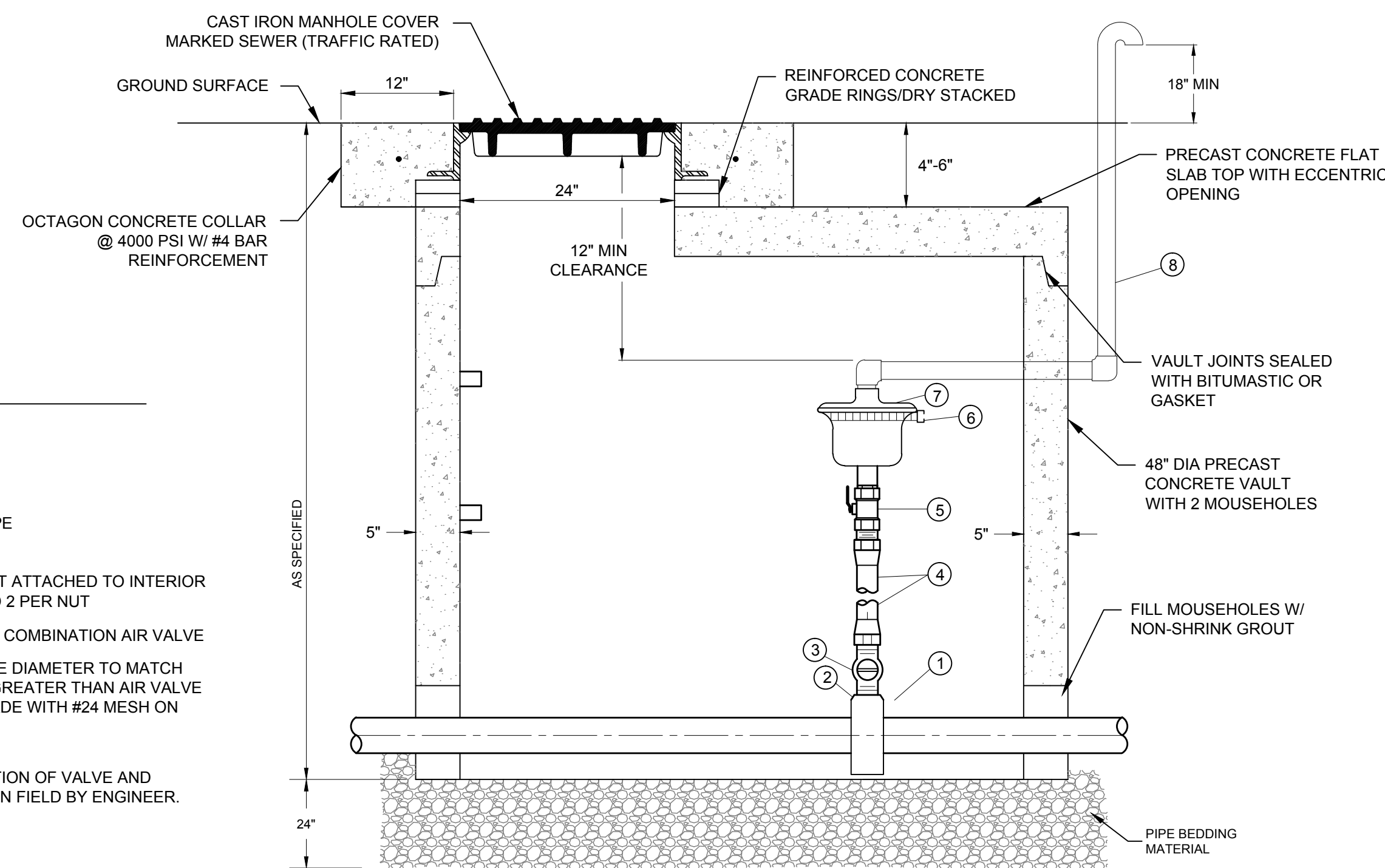
3 TRENCH DETAIL
D-2 SEWER TRENCH LIMITS FOR PIPE INSTALLATION, BEDDING AND BACKFILL
NOT TO SCALE



4 PVC PIPE CASING AND SPACER DETAIL
D-2 NOT TO SCALE



2 LPES/LPSS FLUSHING CONNECTION
D-2 NOT TO SCALE

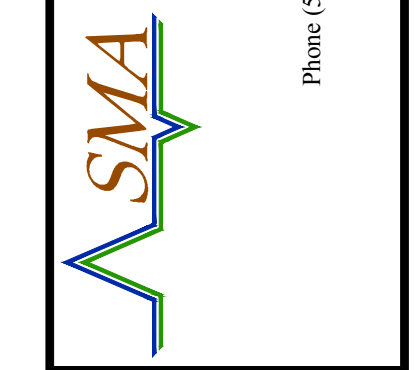


5 COMBINATION AIR VALVE ASSEMBLY
D-2 NOT TO SCALE

- SCHEDULE
- 1 SEWER LINE
 - 2 TAPPING SADDLE
 - 3 1-INCH CORPORATION STOP
 - 4 1-INCH STAINLESS STEEL PIPE
 - 5 1-INCH BALL VALVE
 - 6 1 5/8\" GALVANIZED UNI-STRUT ATTACHED TO INTERIOR WALLS W/ 2\" MASONRY STUD 2 PER NUT
 - 7 VAL-MATIC 1-INCH VM-201C.2 COMBINATION AIR VALVE
 - 8 STAINLESS STEEL DRAIN LINE DIAMETER TO MATCH TUBING SIZE EQUAL TO OR GREATER THAN AIR VALVE SIZE TO EXTEND ABOVE GRADE WITH #24 MESH ON OUTLET
- NOTE:
EXACT LOCATION AND ORIENTATION OF VALVE AND VAULT ARE TO BE DETERMINED IN FIELD BY ENGINEER.

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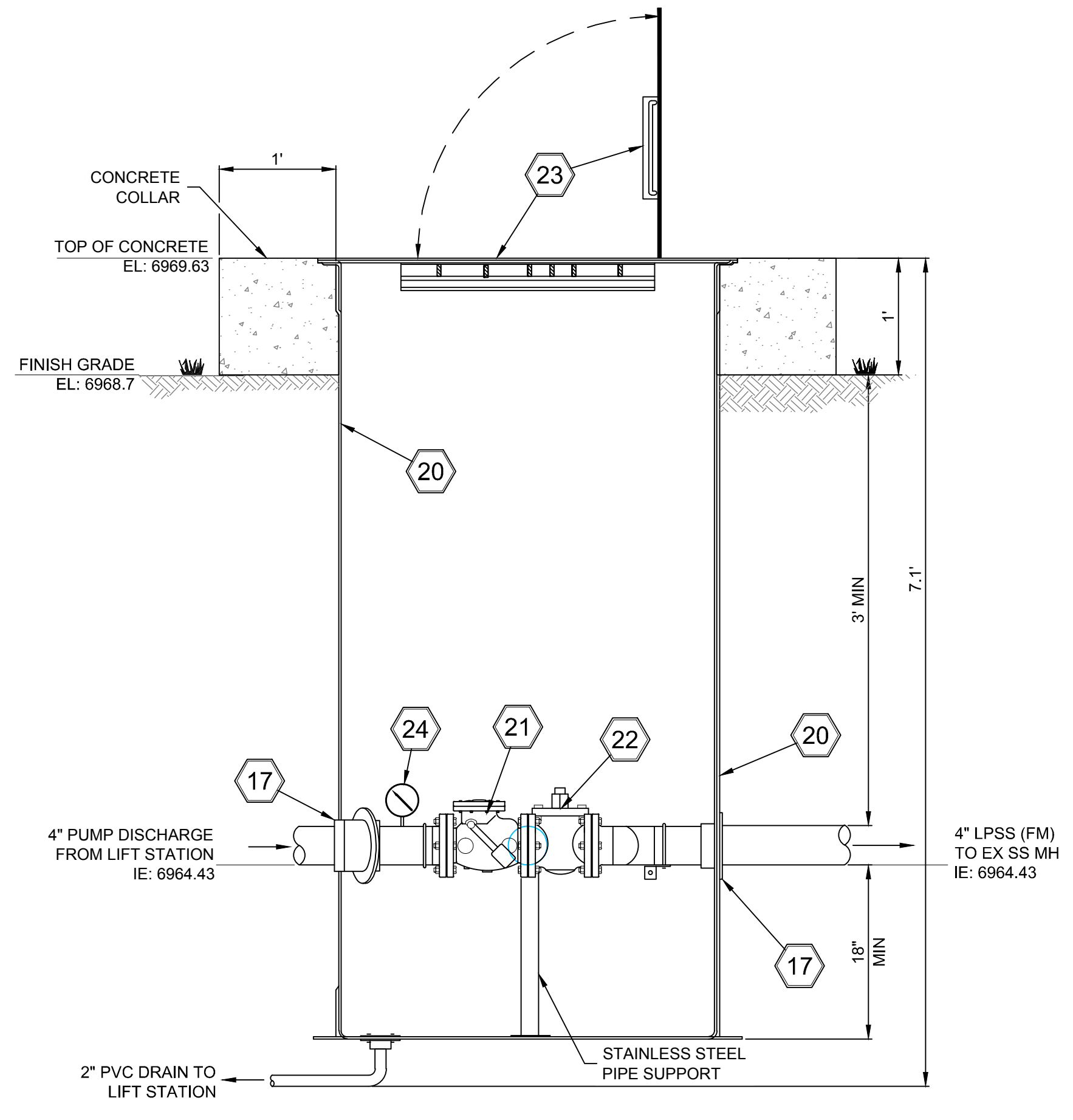
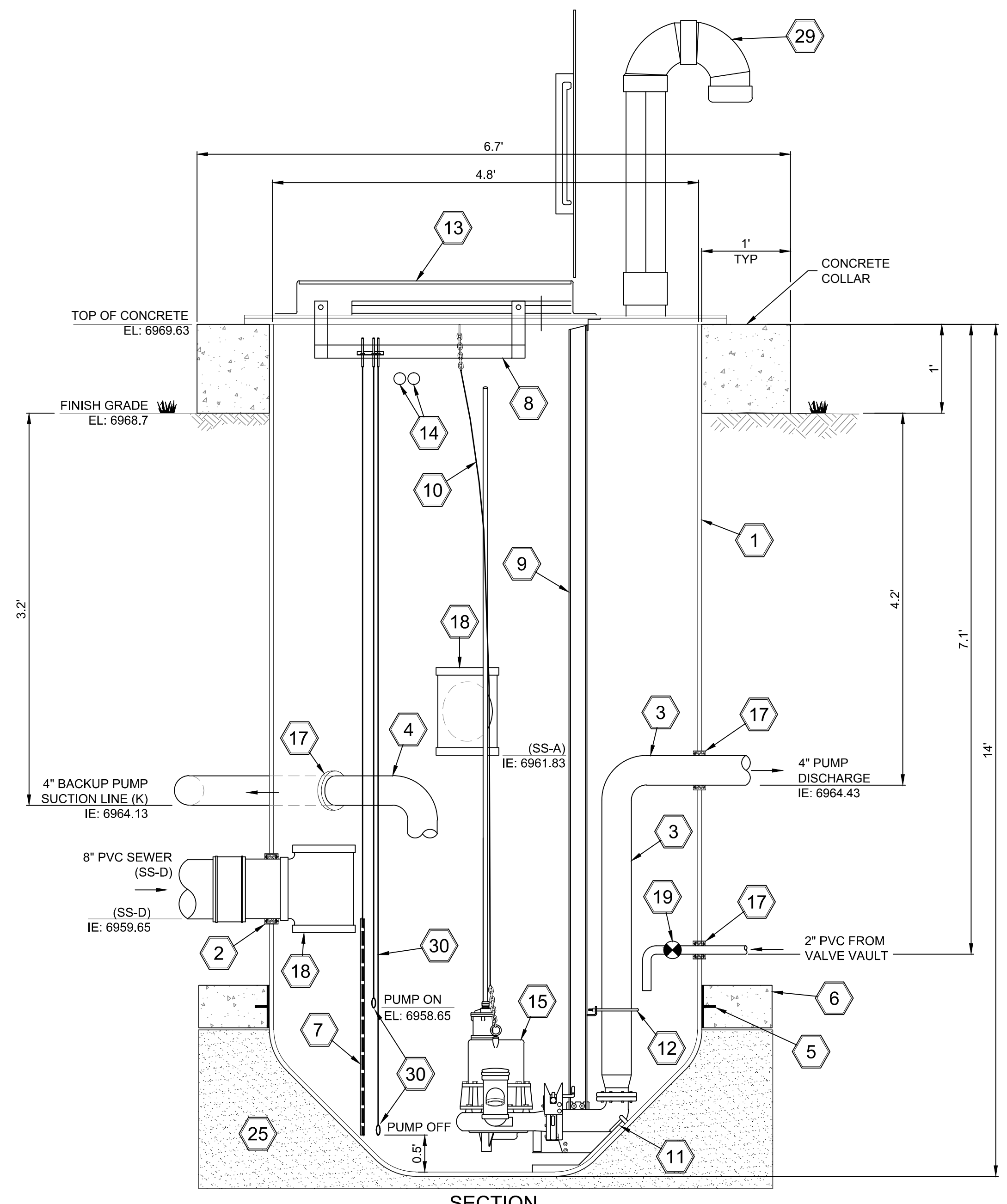


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TAOS PUEBLO WATER & WASTEWATER EXPANSION SEWER DETAILS (2)



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Project No: 6223190	Sheet: D-2	

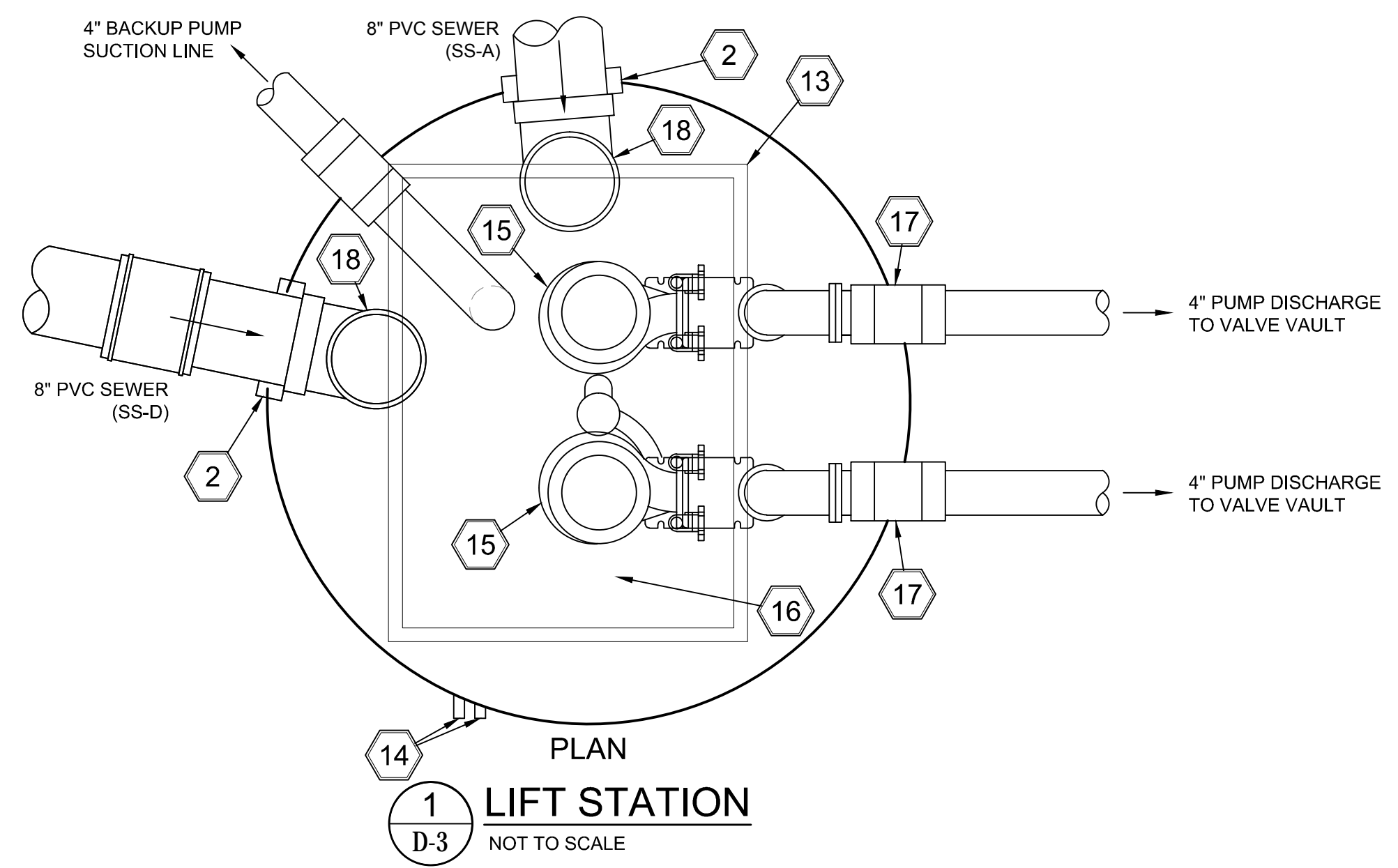


SECTION
VALVE VAULT ASSEMBLY
NOT TO SCALE

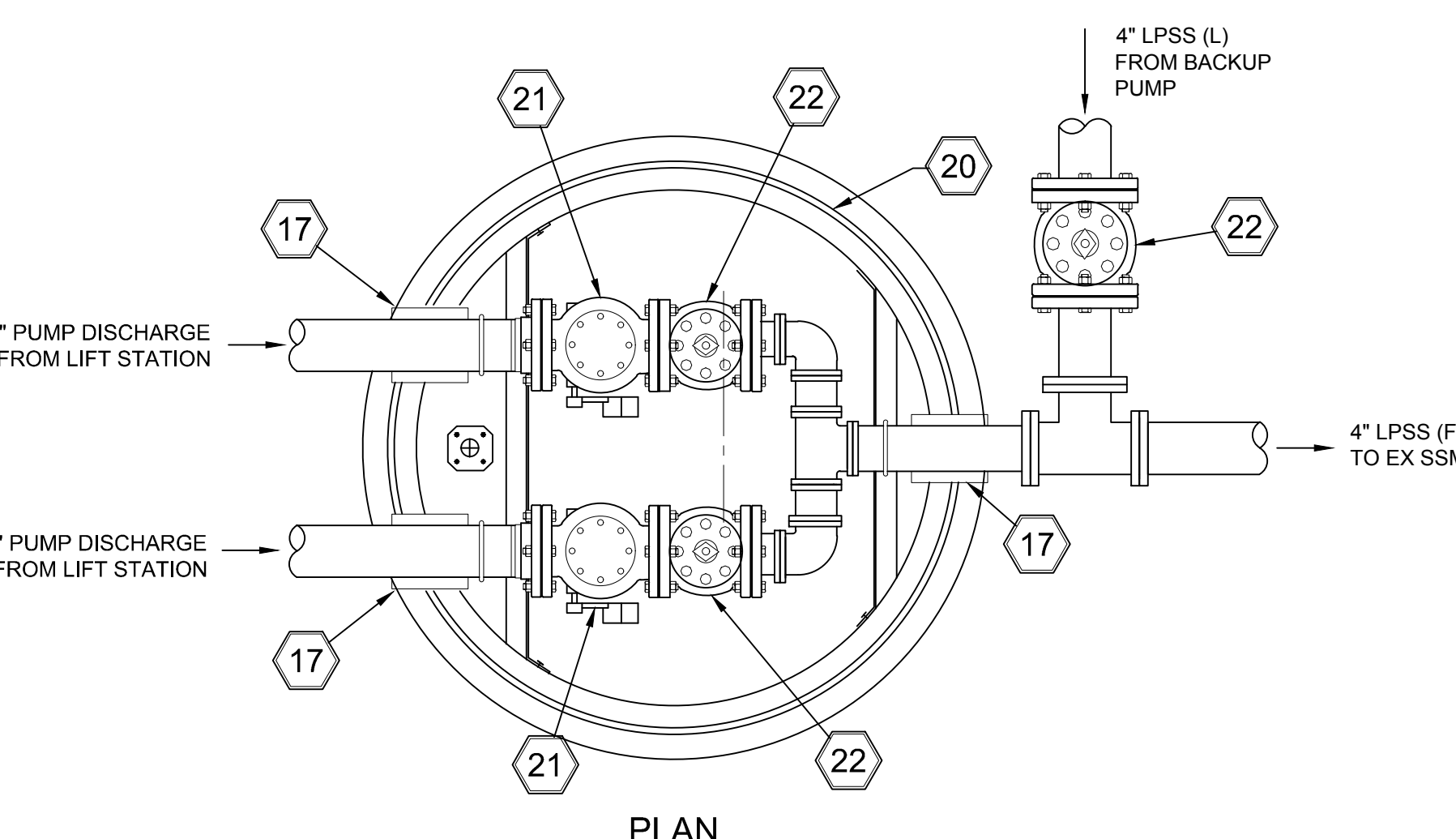
SYSTEM CONDITIONS	
Force Main Length	1,259 Ft
Force Main Material	4" HDPE
Elevation Head	15 Ft
TDH	29 Ft
Operation Flow	110 gpm

- KEY NOTES:**
- TOP 5 DUPLEX STATION BY FLYGT OR ENGINEER APPROVED EQUAL
 - 8" FIBERGLASS HUB WITH LINK SEAL (INLET)
 - 4" SST DISCHARGE PIPE
 - 4" BACKUP PUMP SUCTION LINE - S.S., BRACE PER MANUFACTURERS RECOMMENDATION
 - INTEGRATED ANTI-FLOTATION FLANGE
 - CONCRETE BALLAST PER MANUFACTURERS REQUIREMENTS
 - LIQUID LEVEL SENSOR (MULTITRODE OR ENGINEER APPROVED EQUAL)
 - SST CABLE HOLDER
 - SST GUIDE RAIL
 - SST LIFTING CABLE (OR CHAIN)
 - TOP DISCHARGE CONNECTION BY FLYGT OR ENGINEER APPROVED EQUAL
 - SST PIPE SUPPORTS PER MANUFACTURER
 - ACCESS COVER WITH FALL PROTECTION GRATE
 - CABLE ENTRY (FACTORY INSTALLED)
 - NP3102 PUMP
 - MIX FLUSH VALVE
 - RUBBER PIPE GROMMET
 - 8" SANITARY TEE
 - SWING CHECK VALVE
 - VALVE VAULT ASSEMBLY FLYGT 6" DIA FIBERGLASS OR ENGINEER APPROVED EQUAL
 - 4" SWING CHECK VALVE
 - 4" HDL PLUG VALVE
 - ACCESS COVER WITHOUT FALL PROTECTION GRATE
 - PRESSURE GAUGES
 - AGGREGATE BASE / CRUSHED STONE PER MANUFACTURERS RECOMMENDATIONS
 - FLYGT CONTROL PANEL
 - P1000 UNISTRUT
 - ELECTRICAL OR CONTROL CONDUIT
 - 4" SST VENT PIPE
 - BACK-UP PUMP FLOAT SENSORS
 - 4" MAGNETIC FLOW METER
 - 4" PRECAST CONCRETE VAULT

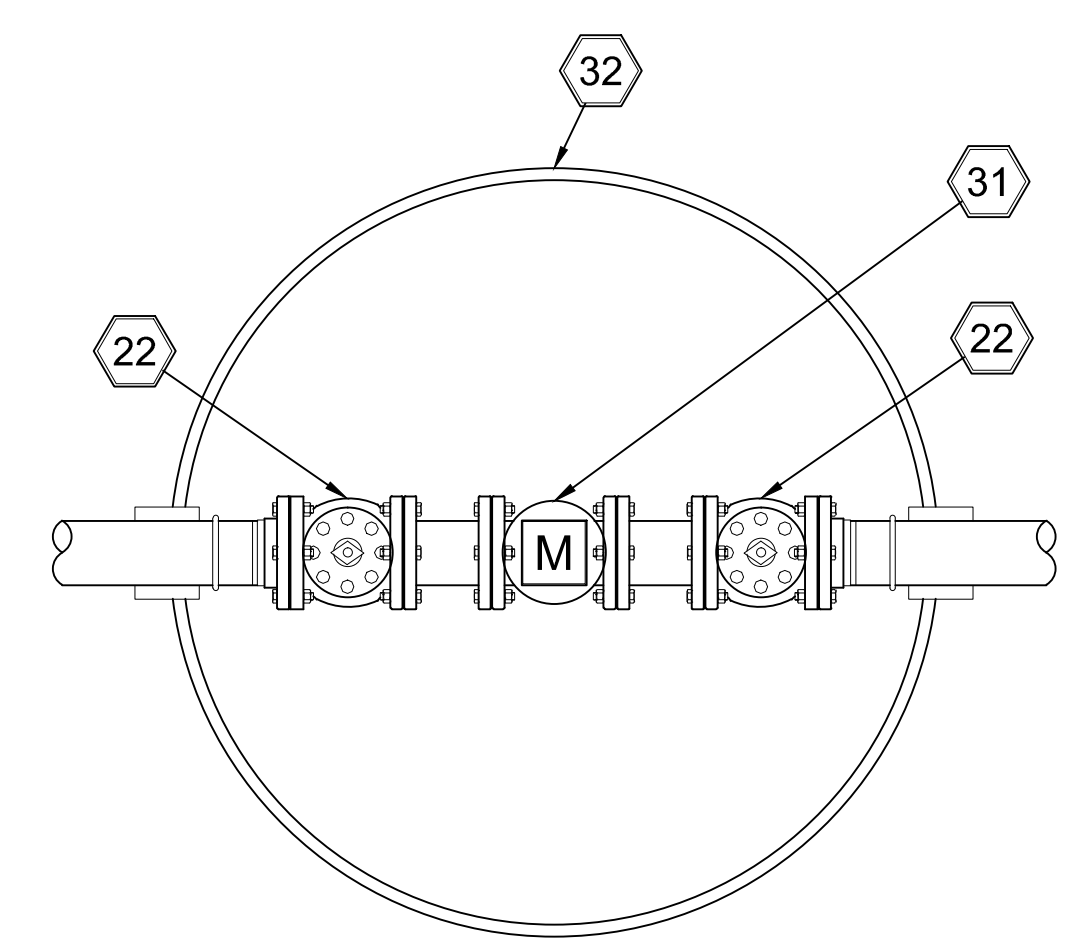
- NOTES:**
- THIS IS A CLASS 1, DIVISION 2, GROUP D AREA. ALL JUNCTION BOXES TO BE INSTALLED OUTSIDE VAULTS, TANKS, RISERS AND LIFT STATIONS. CONDUIT SEALS MUST BE PROVIDED ON ALL CONDUITS BETWEEN JUNCTION BOXES, CONTROL PANELS OR ANY OTHER CONNECTED ELECTRICAL DEVICE AND THE CLASSIFIED AREAS.
 - FLYGT TO PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
 - FLYGT (TOP 4 DUPLEX) LIFT STATION TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
 - CONTRACTOR TO VERIFY ALL INVERTS IN THE FIELD AND MAKE NECESSARY ADJUSTMENTS AS APPROVED BY THE PROJECT ENGINEER (SMA).
 - CONTRACTOR TO GRADE SITE WITH A MINIMUM 2% POSITIVE GRADE AWAY FROM ALL RISERS (LIFT STATIONS, VALVE VAULTS, ETC.) TO DRAIN. COST OF SITE GRADING TO BE CONSIDERED INCIDENTAL TO INSTALLATION OF LIFT STATION.
 - ALL UNISTRUT SHALL BE HOT DIP GALVANIZED.
 - CONTROL PANEL ENCLOSURE SHALL BE NEMA 3A.
 - PUMP HOIST PER TECHNICAL SPECIFICATIONS. INSTALL HOIST SOCKET AT A LOCATION APPROVED BY ENGINEER.



1
D-3
LIFT STATION
NOT TO SCALE



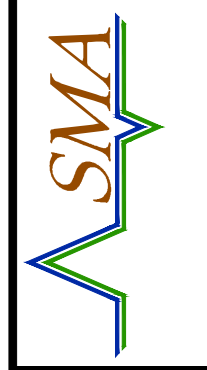
2
D-3
VALVE VAULT ASSEMBLY
NOT TO SCALE



3
D-3
METER VAULT ASSEMBLY
NOT TO SCALE

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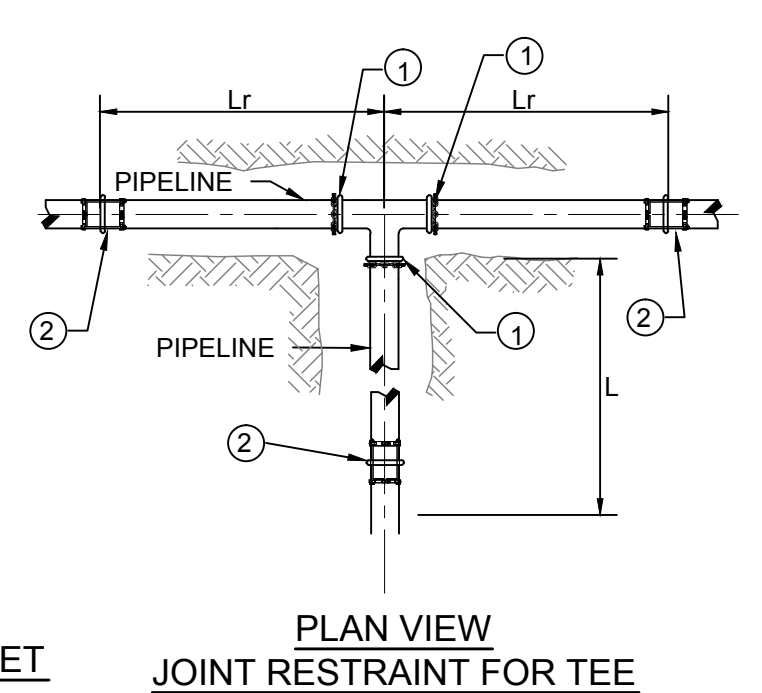
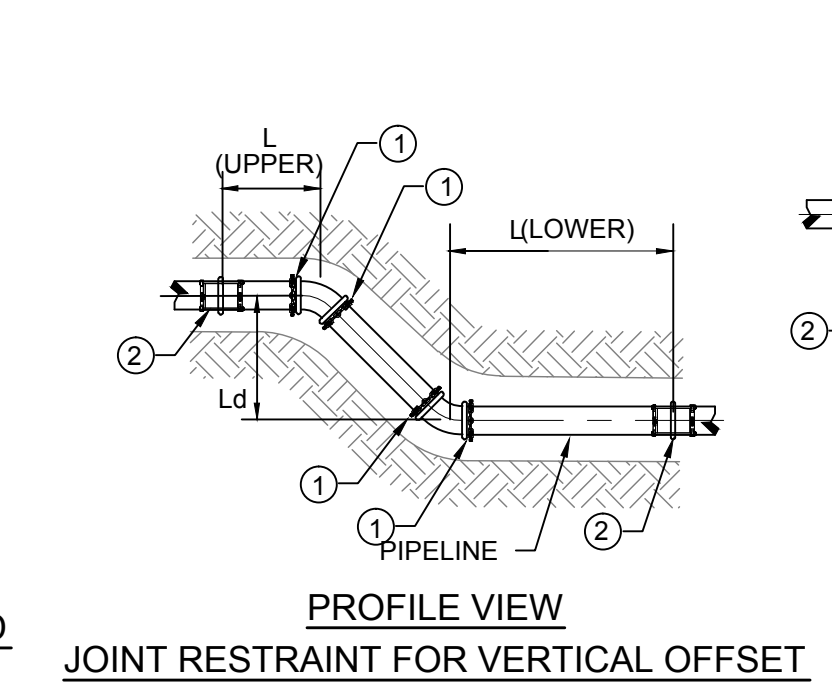
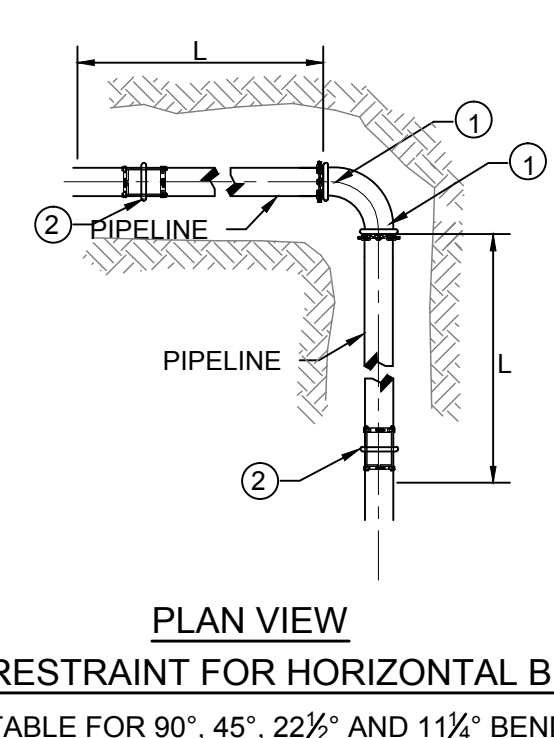
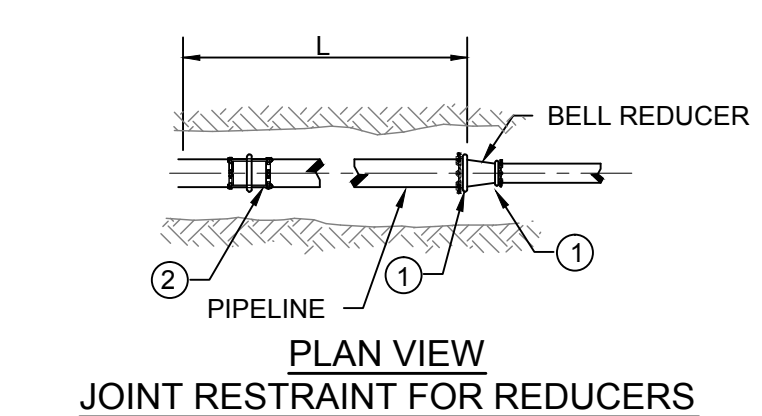
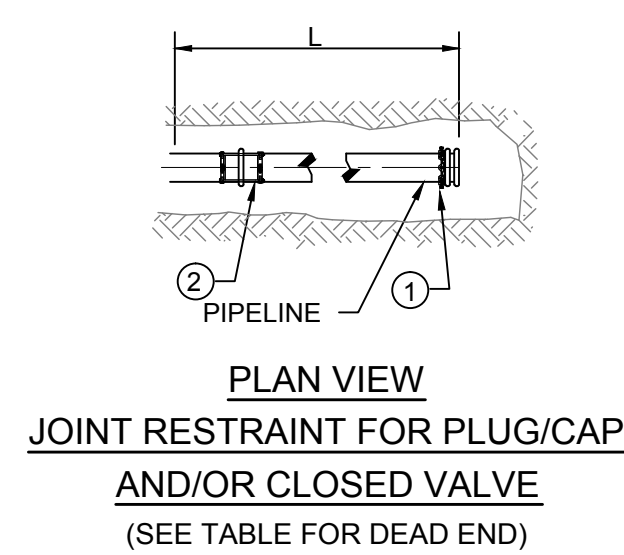
TAOS PUEBLO, NM
 TAOS PUEBLO
 WATER & WASTEWATER EXPANSION
 LIFT STATION DETAILS



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1 PIPE RESTRAINTS FOR PVC PIPE AT BENDS
D-4 NOT TO SCALE

- NOTES:
- MECHANICAL JOINT RESTRAINT FOR PVC C900 OR DUCTILE IRON PIPE. (USE EBAA IRON SERIES 2000 PV JOINT RESTRAINTS FOR AWWA C-900 PVC PIPE AND SERIES 1100 FOR DUCTILE IRON PIPE, OR APPROVED EQUAL.)
 - BELL JOINT RESTRAINT HARNESS FOR C900 PVC OR DUCTILE IRON PIPE. (USE EBAA IRON SERIES 1600 JOINT RESTRAINT FOR AWWA C-900 PVC PIPE AND SERIES 1700 FOR DUCTILE IRON PIPE, OR APPROVED EQUAL.)
 - NO CONCRETE THRUST BLOCKING SHALL BE INSTALLED UNLESS EXPLICITLY APPROVED OR REQUESTED BY THE ENGINEER IN WRITING. RESTRAINED JOINTS SHALL BE USED AT ALL PIPE FITTINGS PER THIS DETAIL AS A MINIMUM STANDARD. MINIMUM RESTRAINT LENGTHS SHALL BE PER MANUFACTURER RECOMMENDATIONS AND WITH REGARD TO SPECIFIC SITE CONDITIONS AND SYSTEM OPERATING PARAMETERS.
 - L = LENGTH IN WHICH ALL JOINTS SHALL BE RESTRAINED
 - VALVES SHALL REQUIRE THE SAME JOINT RESTRAINT LENGTHS AS DEAD ENDS OF SIMILAR SIZE AND PIPE MATERIAL.

LENGTH IN FEET REQUIRED FOR ALL C900 PVC AND DUCTILE IRON RESTRAINED JOINTS
(VALUES IN PARENTHESIS ARE FOR DUCTILE IRON PIPE)

PIPE DIA.	DEAD END*	90° BEND*	45° BEND*	22.5° BEND*	11.25° BEND*
3-INCH	46 (27)	21 (15)	9 (7)	5 (3)	3 (2)
6-INCH	71 (46)	32 (26)	14 (11)	7 (6)	4 (3)

*RESTRAINED EACH WAY
*USE 3" RJ VALUES FOR 2" PIPE

TEE	6" x 6"	6" x 3"
20' Lr	1 (1)	1 (1)
10' Lr	22 (14)	1 (1)
5' Lr	46 (30)	1 (1)

*USE 3" RJ VALUES FOR 2" PIPE

Vertical Bend	45° VERTICAL OFFSET*	22.5° VERTICAL OFFSET*	11.25° VERTICAL OFFSET*
Pipe Size	3"	6"	3"
UPPER BEND	19 (11)	30 (19)	10 (6)
2' LOWER BEND	13 (10)	19 (16)	7 (5)
3' LOWER BEND	9 (7)	14 (11)	5 (3)
4' LOWER BEND	7 (5)	10 (8)	4 (3)
5' LOWER BEND	6 (4)	9 (7)	3 (2)

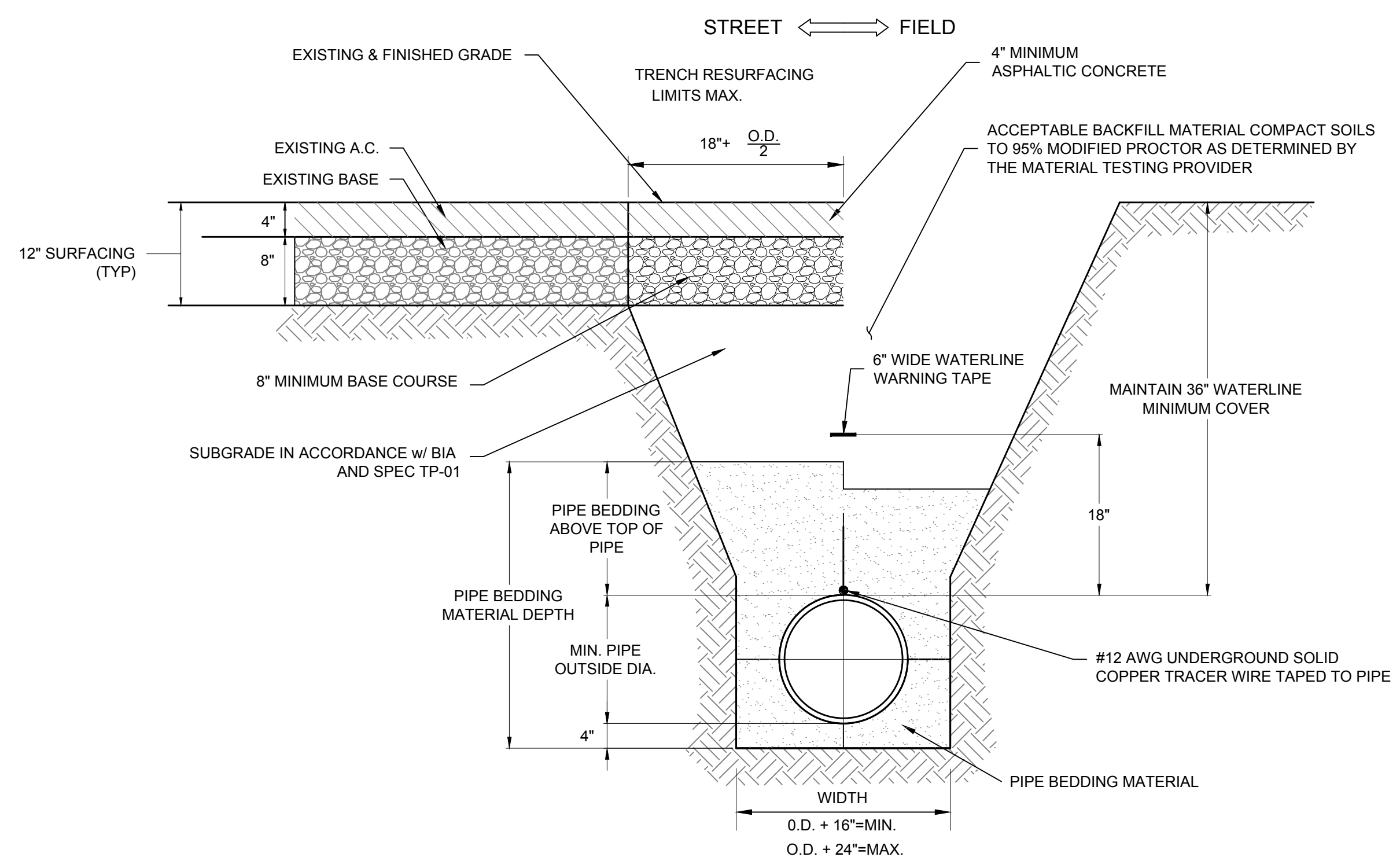
*RESTRAINED EACH WAY
*USE 3" RJ VALUES FOR 2" PIPE

REDUCER	6" x 3"
	48 (31)

*USE 3" RJ VALUES FOR 2" PIPE

- ALL JOINTS WITHIN THE CALCULATED LENGTH MUST BE RESTRAINED.
TABLE APPLIES TO C900 PVC AND DUCTILE IRON PIPE FOR THE FOLLOWING CONDITIONS:
- TEST PRESSURE: 150 PSIG
 - SOIL TYPE: GP (AS SPECIFIED BY MATERIAL TESTING PROVIDER)
 - TRENCH TYPE: 5
 - DEPTH OF COVER: 36"
 - SAFETY FACTOR: 2.0

IF SOIL AND TRENCH CONDITIONS DIFFER, CONTRACTOR TO SUBMIT REVISED JOINT RESTRAINT TABLE REFLECTING APPROPRIATE SOIL TYPE AND CONDITIONS.

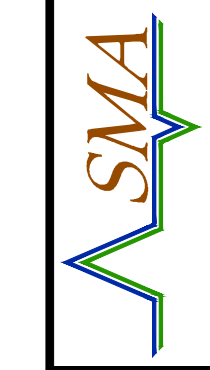


2 TRENCH DETAIL
D-4 NOT TO SCALE

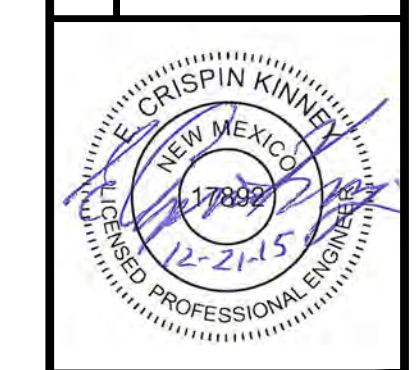
- NOTES:
- TRENCH TO BE BRACED OR SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKERS & THE PROTECTION OF OTHER UTILITIES AND PROPERTY.
 - SPLICES SHALL BE MADE ONLY w/ MANUFACTURER'S RECOMMENDED PRODUCTS.

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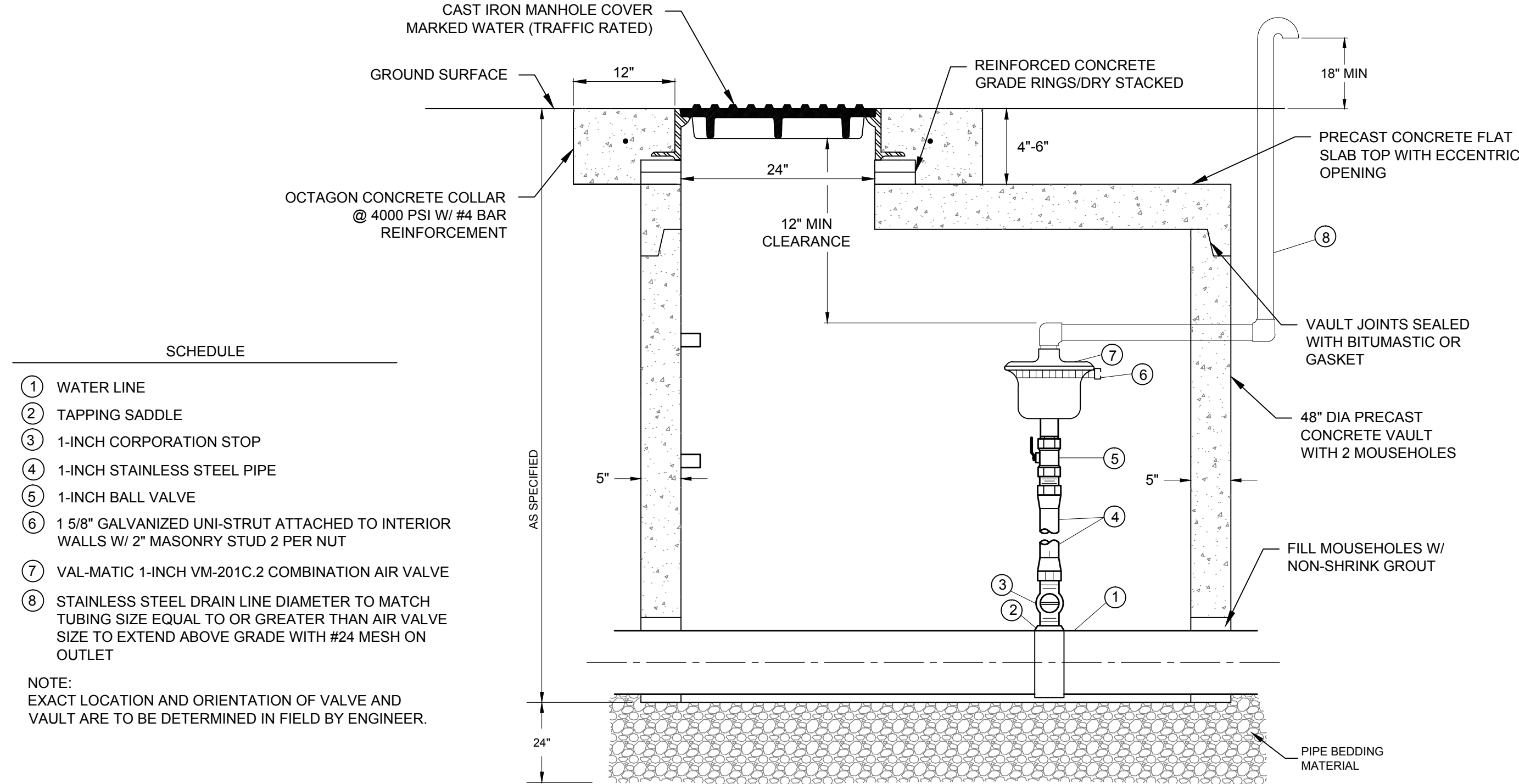


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WATER & WASTEWATER EXPANSION
WATER DETAILS (1)



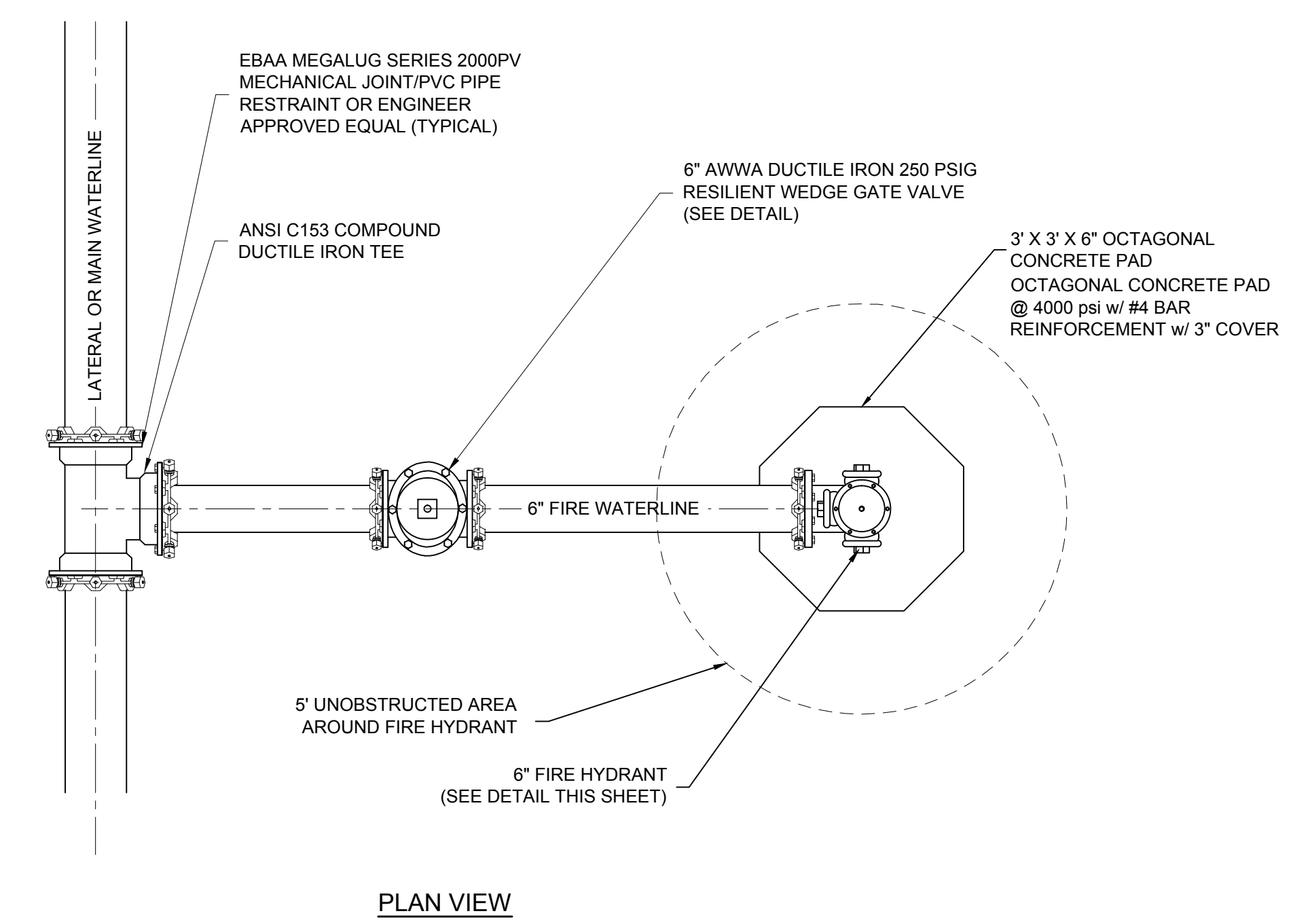
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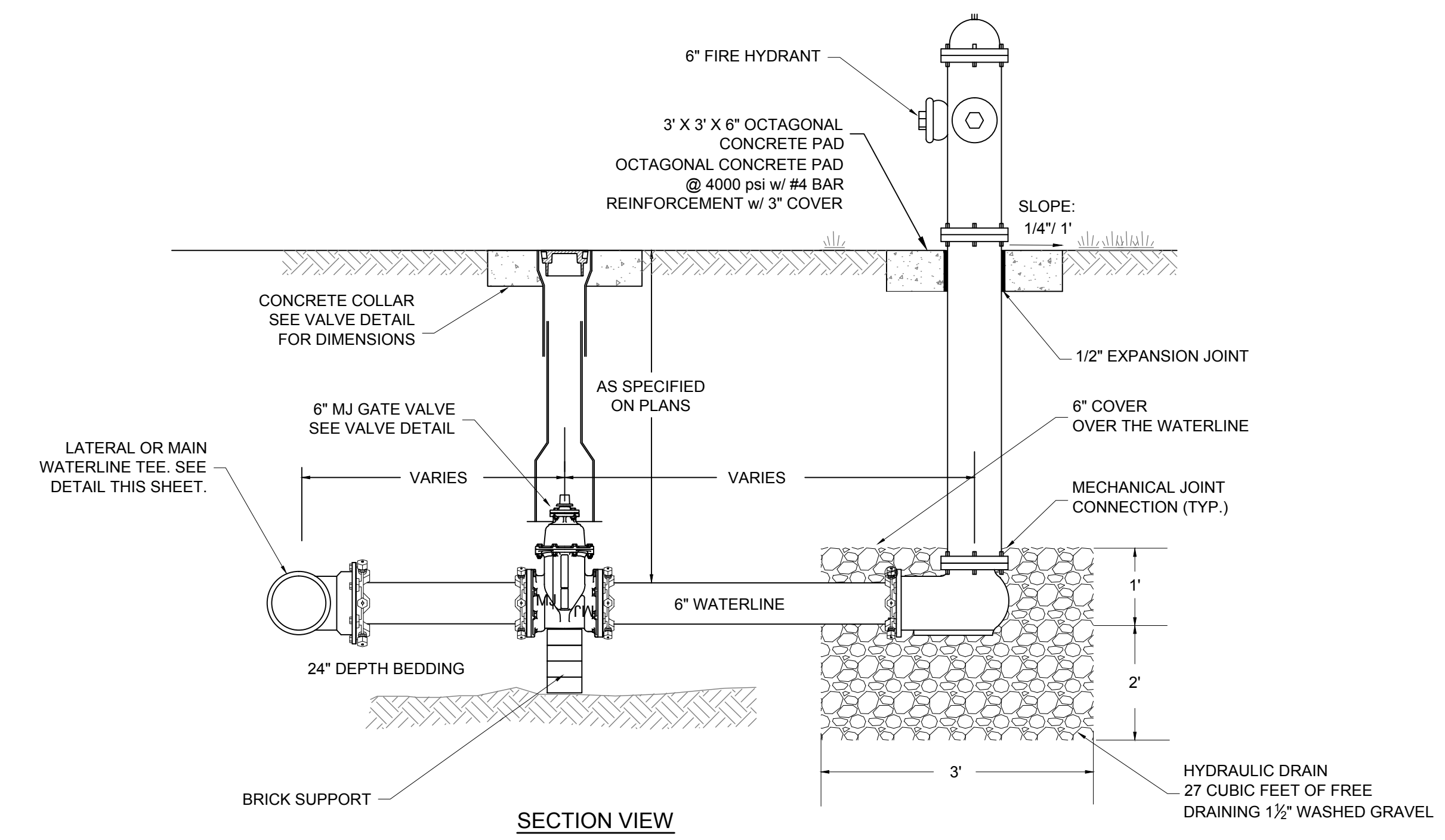


- SCHEDULE
- 1 WATER LINE
 - 2 TAPPING SADDLE
 - 3 1-INCH CORPORATION STOP
 - 4 1-INCH STAINLESS STEEL PIPE
 - 5 1-INCH BALL VALVE
 - 6 1 5/8" GALVANIZED UNI-STRUT ATTACHED TO INTERIOR WALLS W/ 2" MASONRY STUD 2 PER NUT
 - 7 VAL-MATIC 1-INCH VM-201C.2 COMBINATION AIR VALVE
 - 8 STAINLESS STEEL DRAIN LINE DIAMETER TO MATCH TUBING SIZE EQUAL TO OR GREATER THAN AIR VALVE SIZE TO EXTEND ABOVE GRADE WITH #24 MESH ON OUTLET
- NOTE:
EXACT LOCATION AND ORIENTATION OF VALVE AND VAULT ARE TO BE DETERMINED IN FIELD BY ENGINEER.

1 COMBINATION AIR-VACUUM VALVE / PRESSURE AIR RELEASE VALVE ASSEMBLY
D-5 NOT TO SCALE



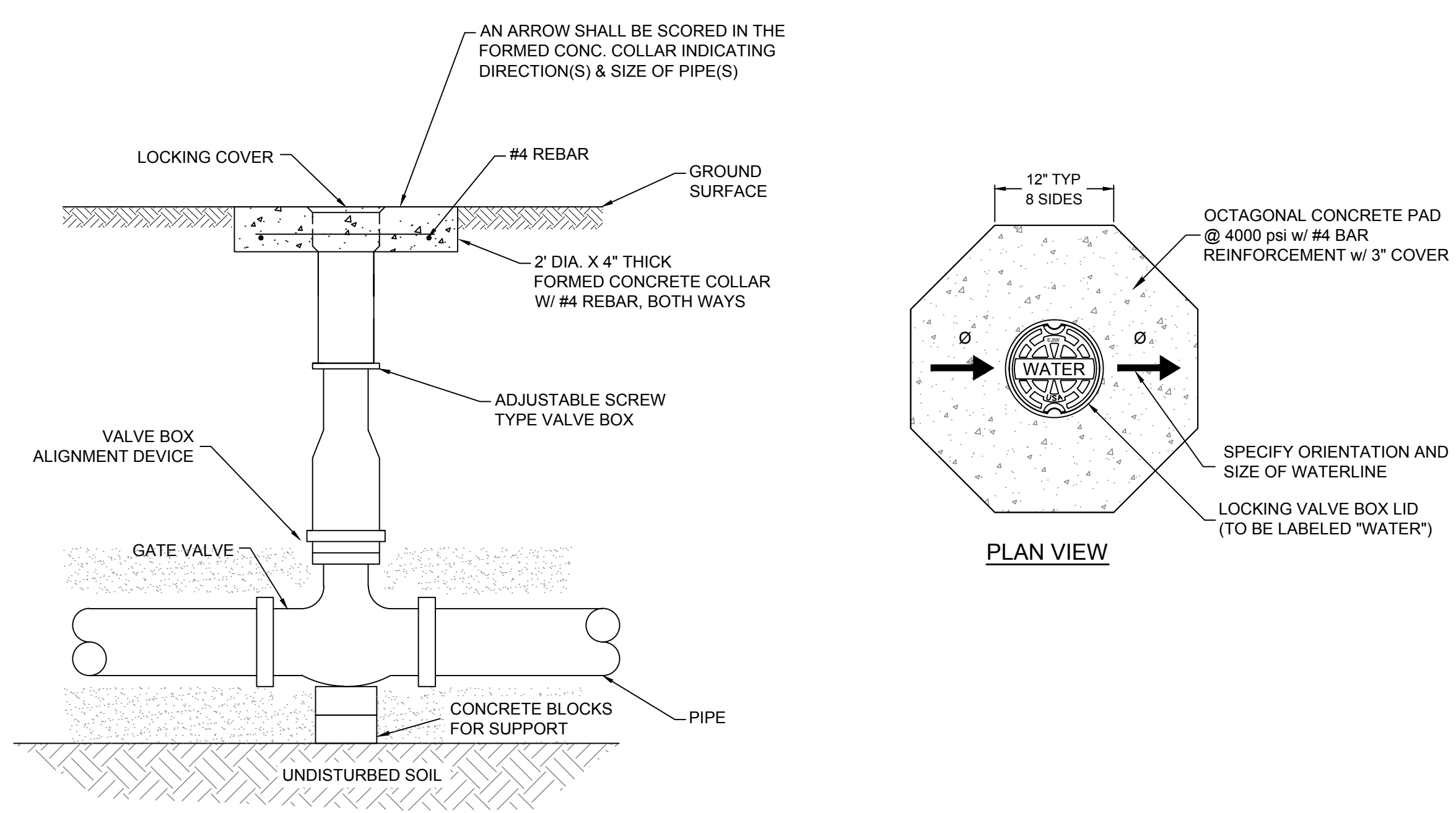
PLAN VIEW



SECTION VIEW

NOTE: ALL JOINTS TO BE RESTRAINED.

3 FIRE HYDRANT DETAIL
D-5 NOT TO SCALE



PLAN VIEW

- NOTE:
- 1) CONTRACTOR TO MATCH GATE VALVE AND PIPE RESTRAINTS TO SPECIFIED PIPE CLASSIFICATION CALLOUT.
 - 2) REFER TO TECHNICAL SPECIFICATIONS FOR ALL BACKFILL, BASE COURSE AND ASPHALT SPECIFICATIONS.
 - 3) VALVE BOX EXTENSION SHOULD NOT CONTACT THE WATERLINE MAIN OR GATE VALVE.

2 TYPICAL GATE VALVE DETAIL
D-5 NOT TO SCALE

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TAOS PUEBLO WATER & WASTEWATER EXPANSION WATER DETAILS (2)

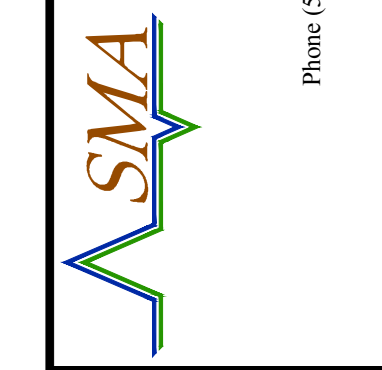


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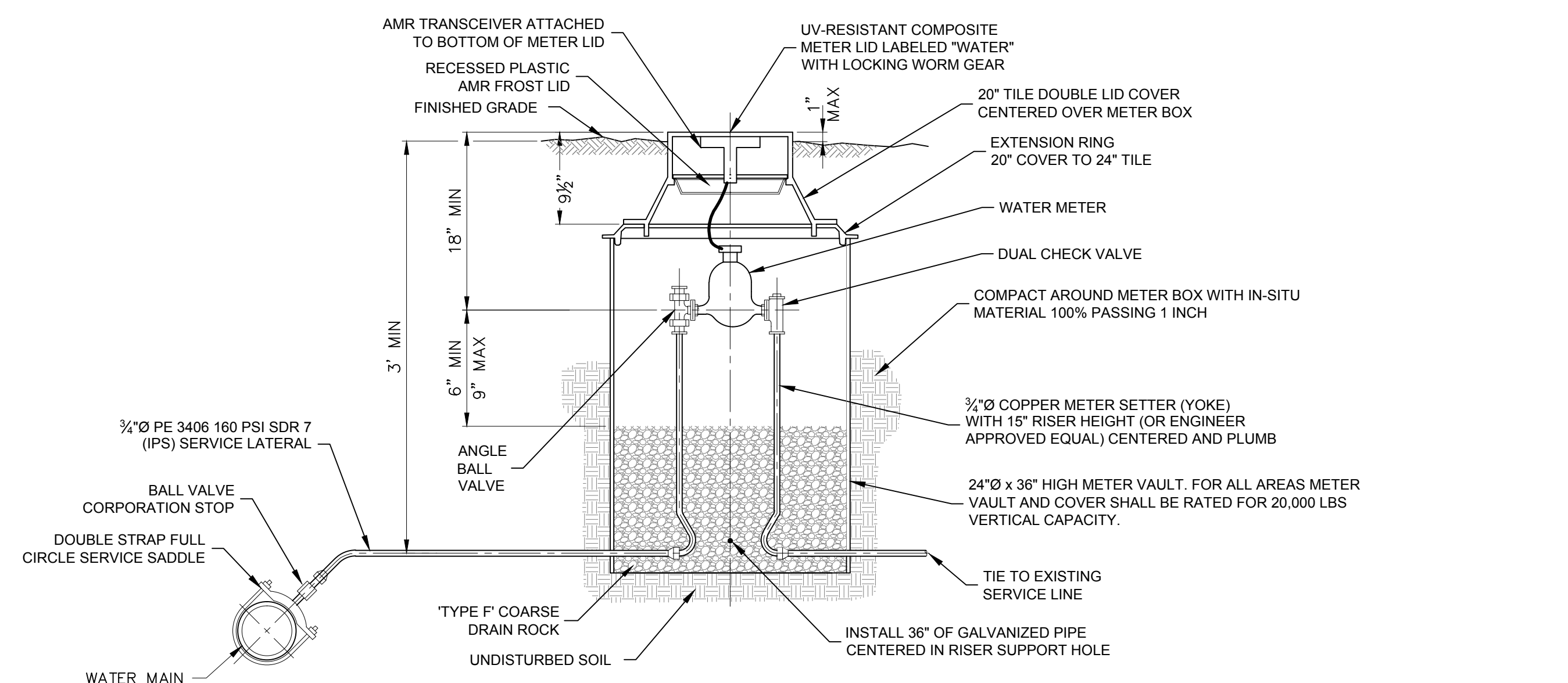


TAOS PUEBLO, NM
TAOS PUEBLO WATER & WASTEWATER EXPANSION WATER DETAILS (3)



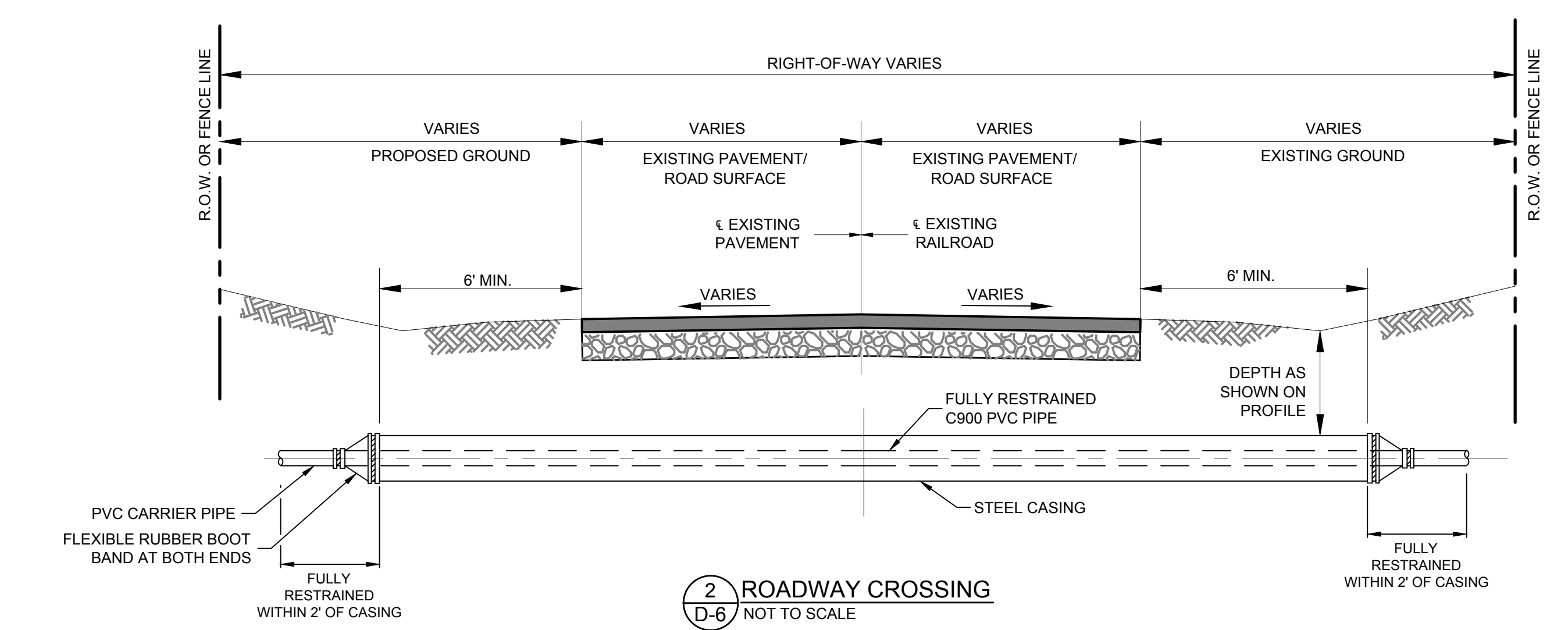
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Project No: 6223190		
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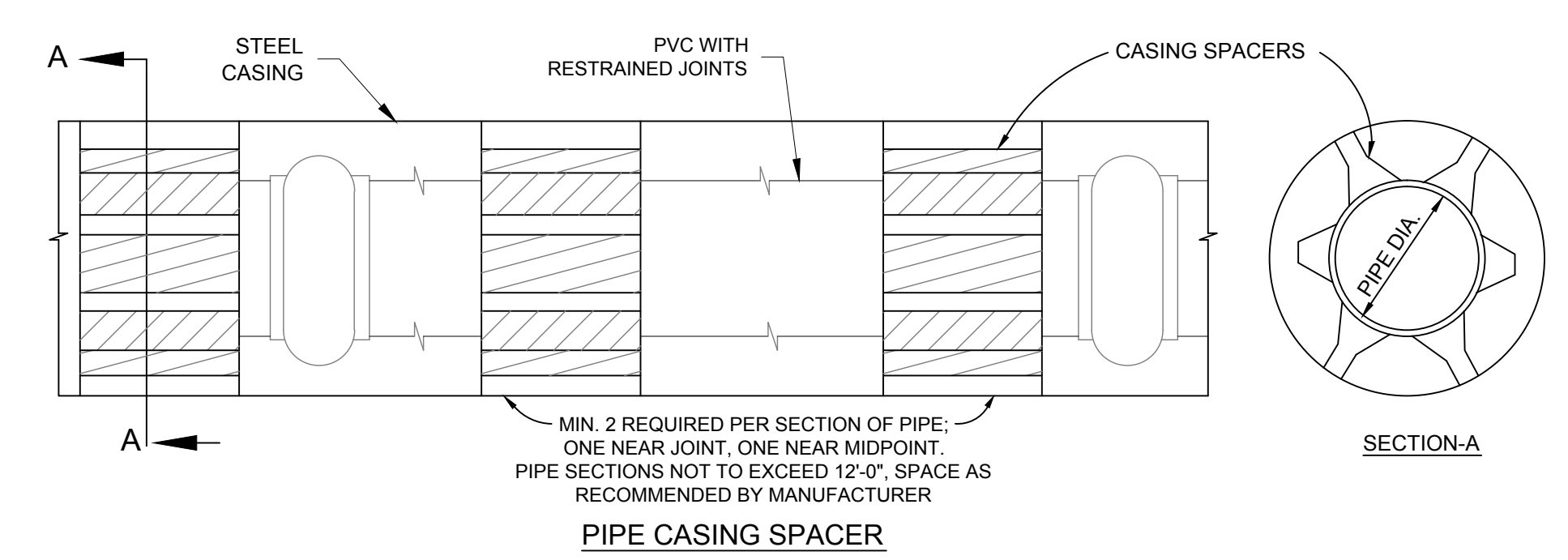


NOTE:
 1. ACTUAL LOCATION OF METER TO BE DETERMINED IN THE FIELD.
 2. IF INSTALLING PRESSURE REDUCING VALVE, METER SETTER (YOKE) SHALL BE TANDEM (S-SHAPE) STYLE.

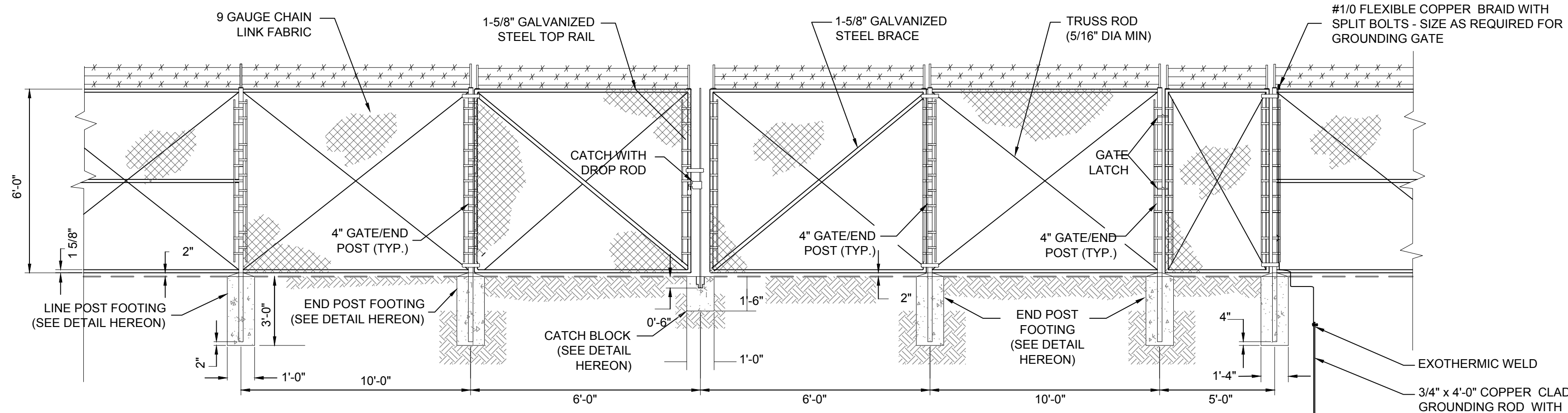
1 WATER METER AND BOX SECTION VIEW
 D-6 NOT TO SCALE



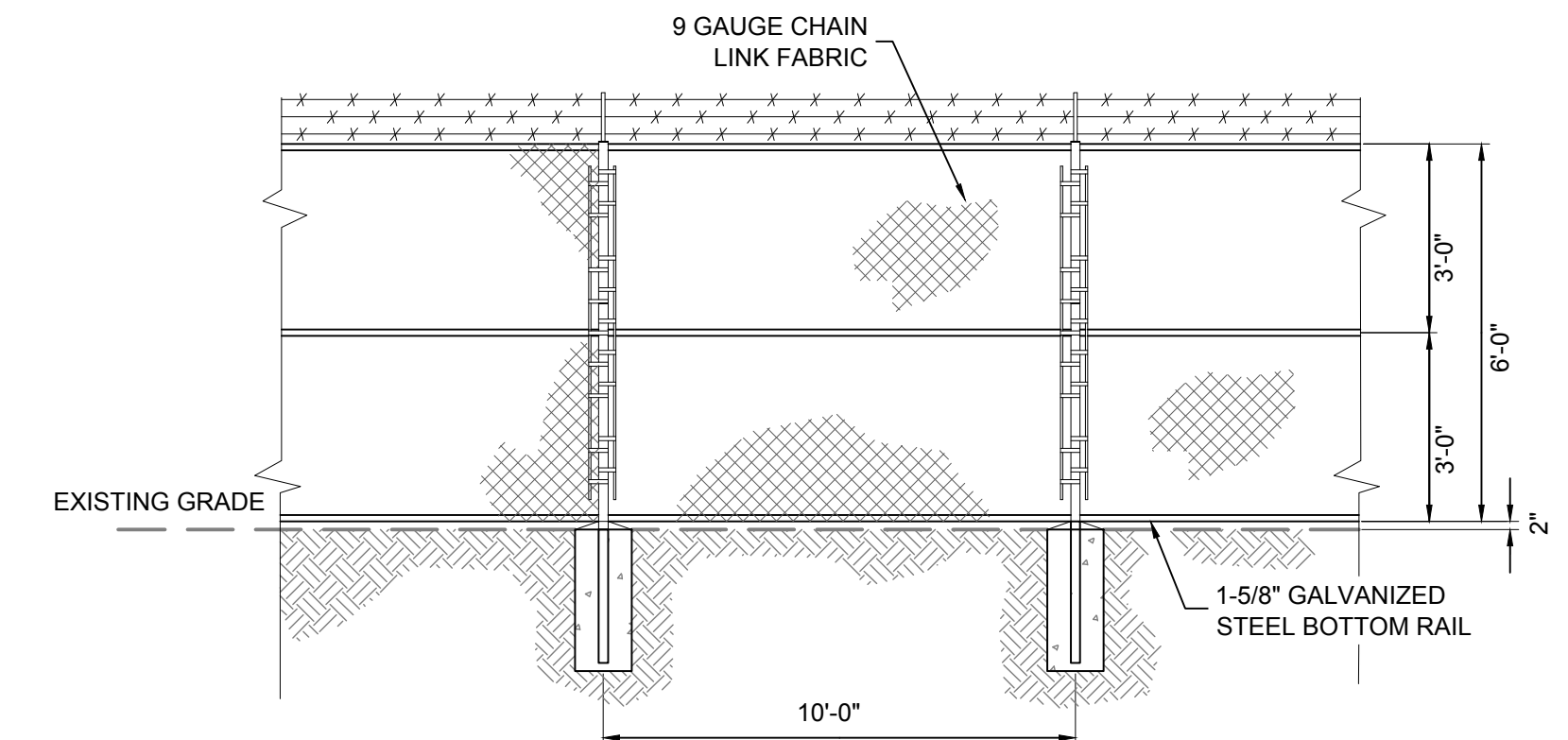
2 ROADWAY CROSSING
 D-6 NOT TO SCALE



3 PVC PIPE CASING AND SPACER DETAIL
 D-6 NOT TO SCALE



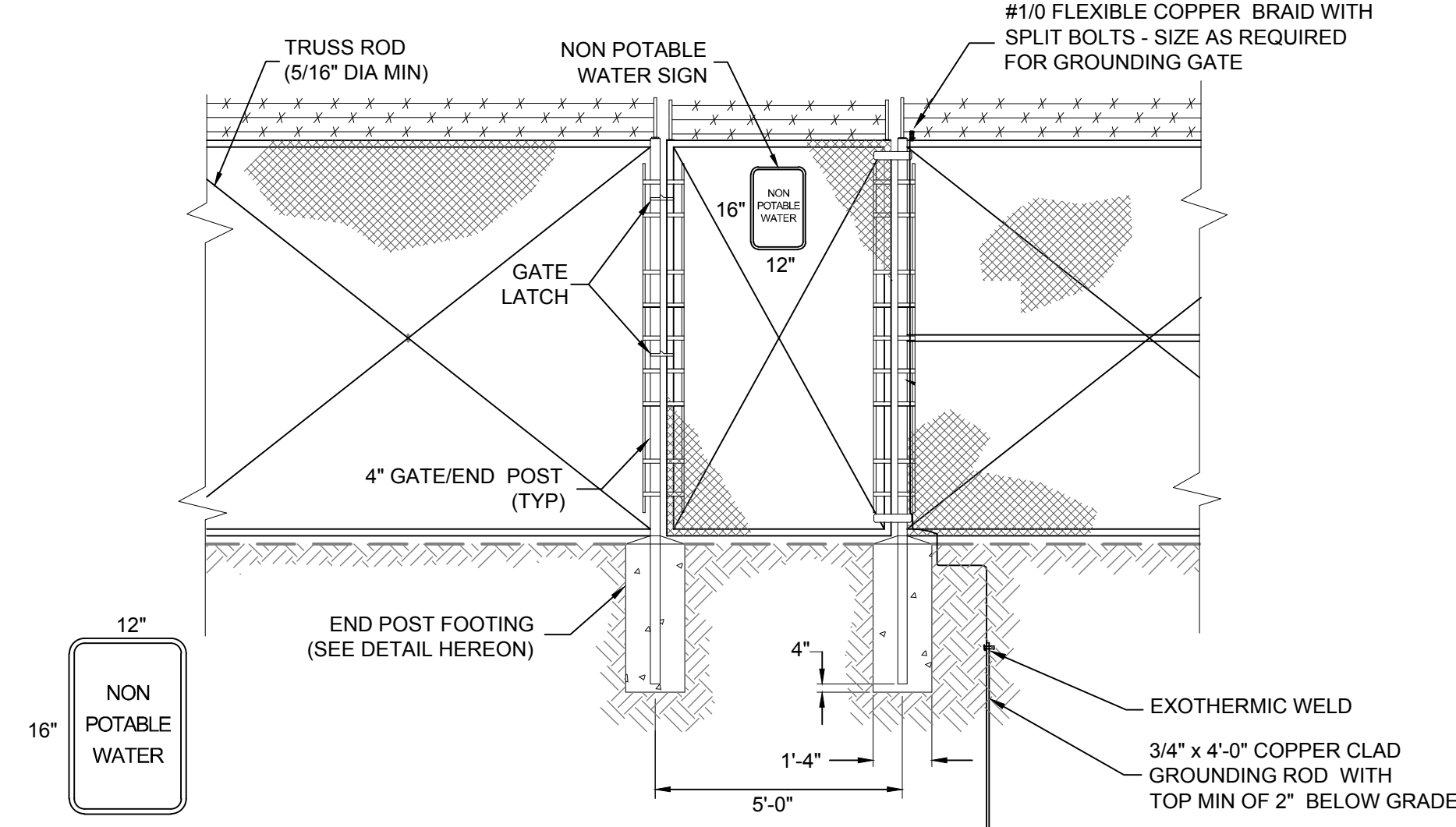
1
D-7
TYPICAL ELEVATION AT DOUBLE SWING GATE
NOT TO SCALE



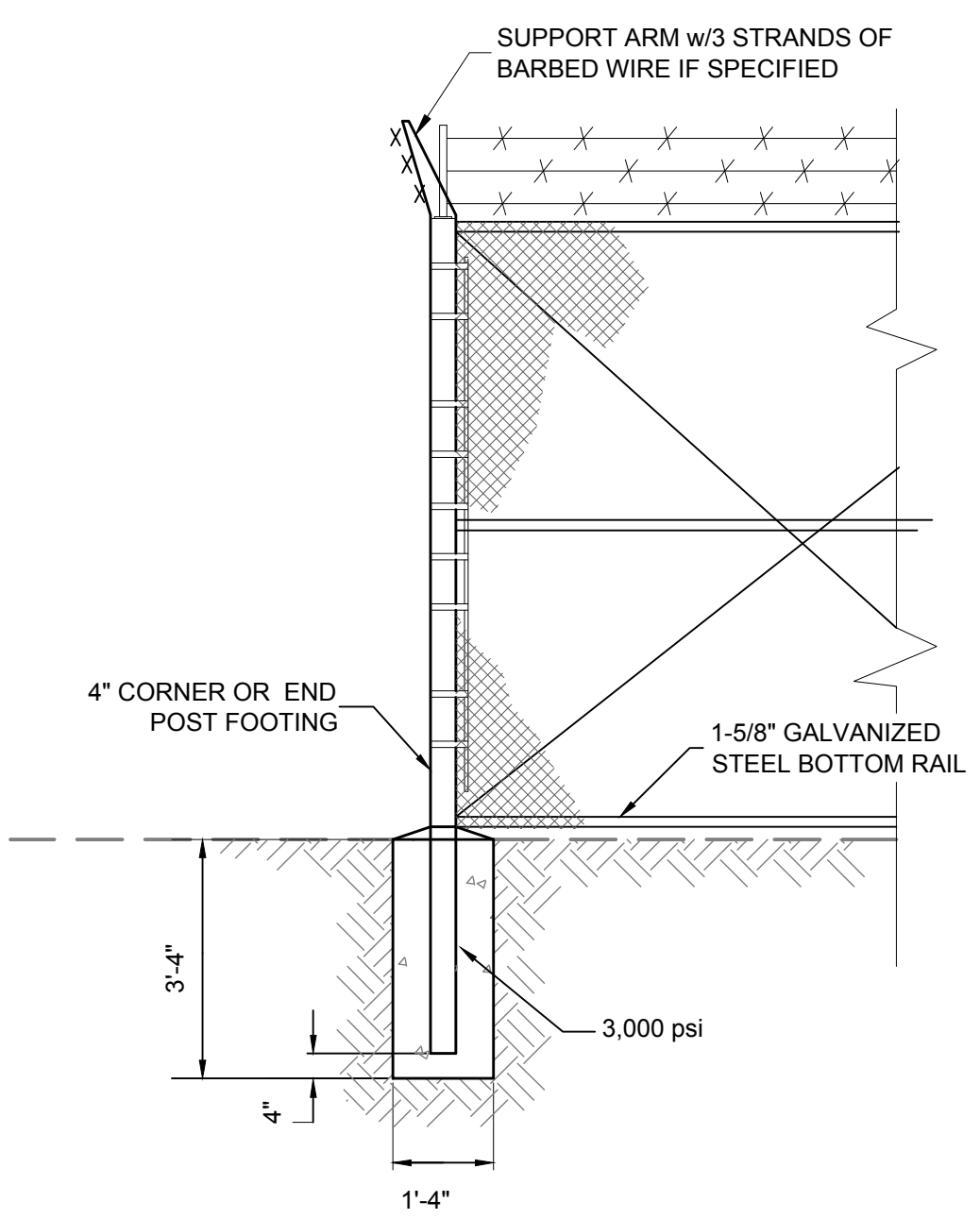
2
D-7
TYPICAL CHAIN LINK FENCE PANEL
NOT TO SCALE

SPECIFICATIONS	
ITEM/TASK	DETAIL
FENCE	ALUMINIZED STEEL LINE POST, SCHEDULE 40 PIPE (25,000 PSI) IN O.D., SET AT 10' ON CENTER IN 3' CONCRETE (3,000 PSI), 9 GAUGE CHAIN LINK FENCE, 8 FT. HIGH, 3-STRAND GALVANIZED BARBED WIRE.
CORNER POSTS	ALUMINIZED STEEL SCHEDULE 40 (25,000 PSI), 2.875" O.D., SET IN CONCRETE (3,000 psi)
END GATE POSTS	ALUMINIZED STEEL SCHEDULE 40 (25,000 PSI), 2.875" O.D., SET IN CONCRETE (3,000 psi)
TOP RAILS	ALUMINIZED STEEL, 1 5/8"
GROUNDING SYSTEM (FOR EA. CORNER POST)	3/4 INCH IN COPPER ROD, 8 FT. LONG, SET 7 FT. BELOW GROUND 2".
BRACING (FOR EA. CORNER POST)	ALUMINIZED STEEL, 2 FOR EACH POST AND GATE, ATTACHED TO BOTTOM RAIL

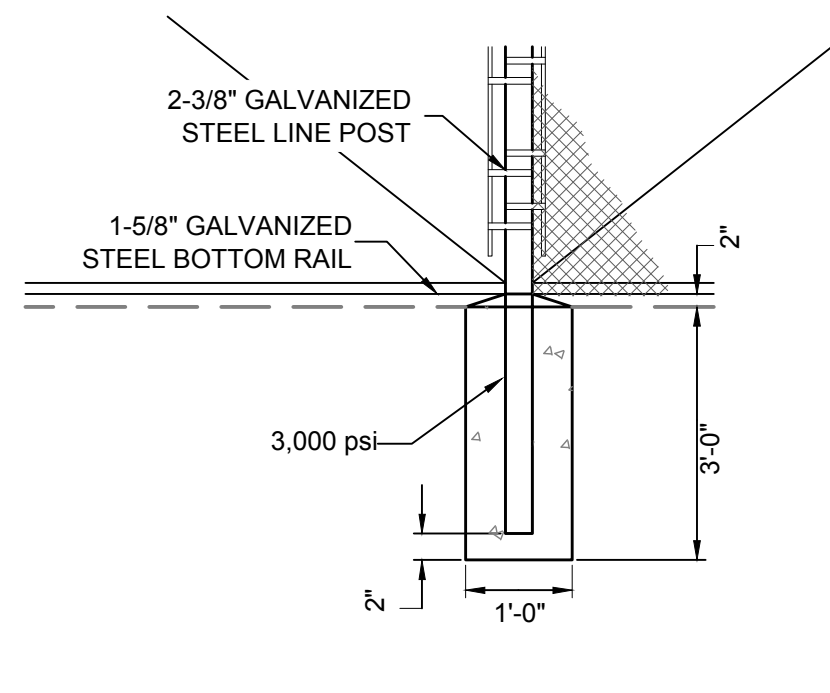
- NOTE:**
- GROUNDING REQUIRED ONLY WHEN THE FENCE CROSSES UNDER AN ELECTRIC LINE OR AS REQUESTED BY OWNER FOR ADDED PROTECTION DURING AN ELECTRICAL STORM.
 - GROUNDING WILL BE CONSIDERED INCIDENTAL TO PROTECT AND THERE WILL BE NO ADDITIONAL COMPENSATION THEREFORE.
 - WWTP FENCING WILL REQUIRE GROUNDING.



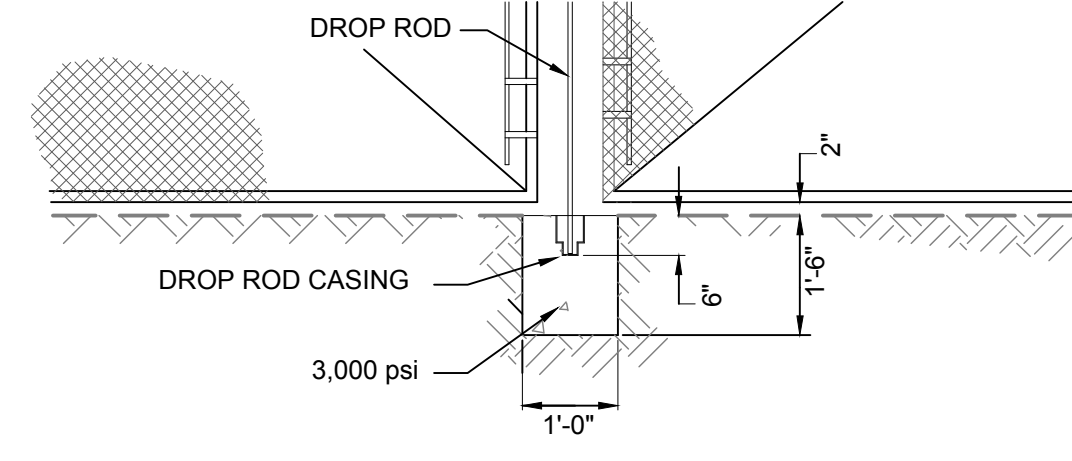
3
D-7
GATE GROUNDING DETAIL
NOT TO SCALE



4
D-7
TYPICAL CORNER/END POST FOOTING DETAIL
NOT TO SCALE



5
D-7
TYPICAL LINE POST FOOTING DETAIL
NOT TO SCALE



6
D-7
TYPICAL CATCH BLOCK DETAIL
NOT TO SCALE

- NOTE:**
- GROUNDING REQUIRED ONLY WHEN THE FENCE CROSSES UNDER AN ELECTRIC LINE OR AS REQUESTED BY OWNER FOR ADDED PROTECTION DURING AN ELECTRICAL STORM. GROUNDING WILL BE CONSIDERED INCIDENTAL TO PROJECT & THERE WILL BE NO ADDITIONAL COMPENSATION THEREFOR.

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WATER & WASTEWATER EXPANSION
CHAIN LINK FENCE DETAILS

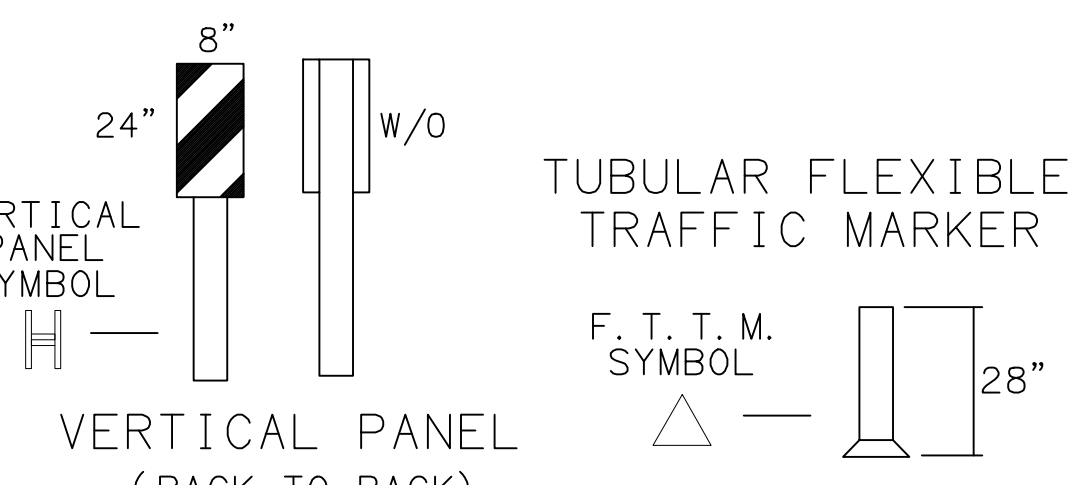
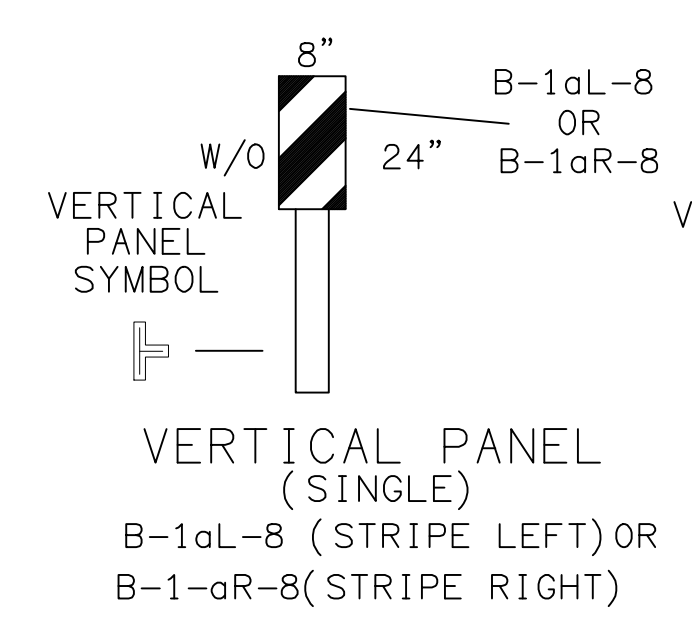
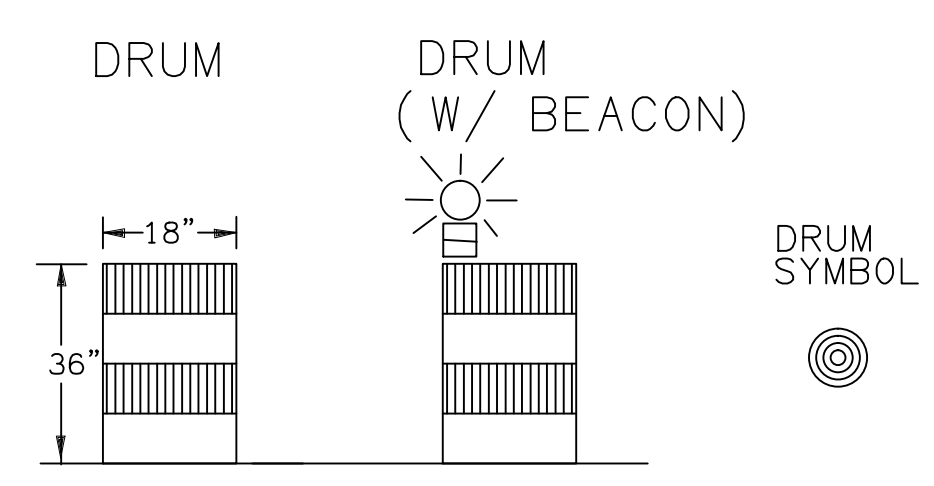
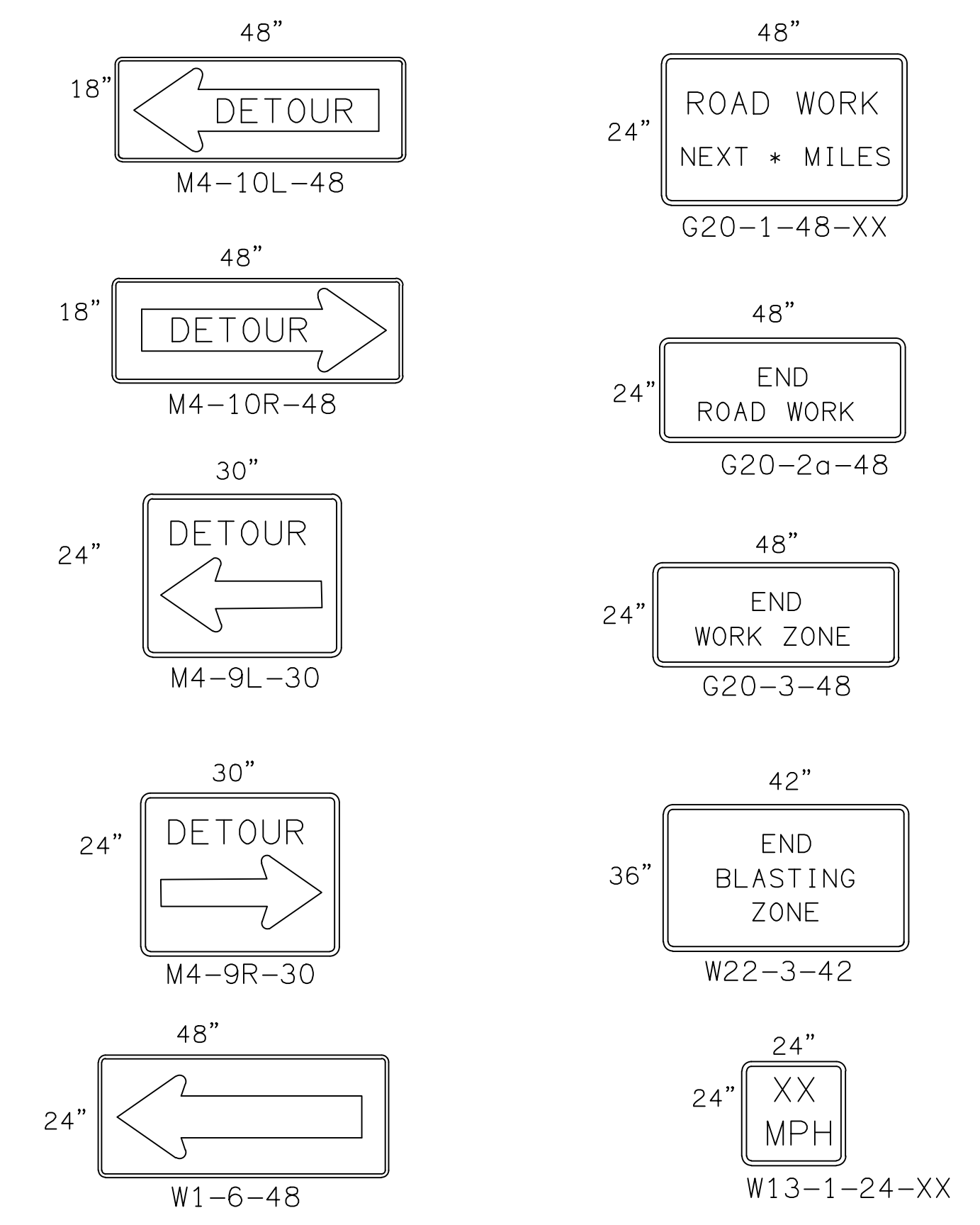
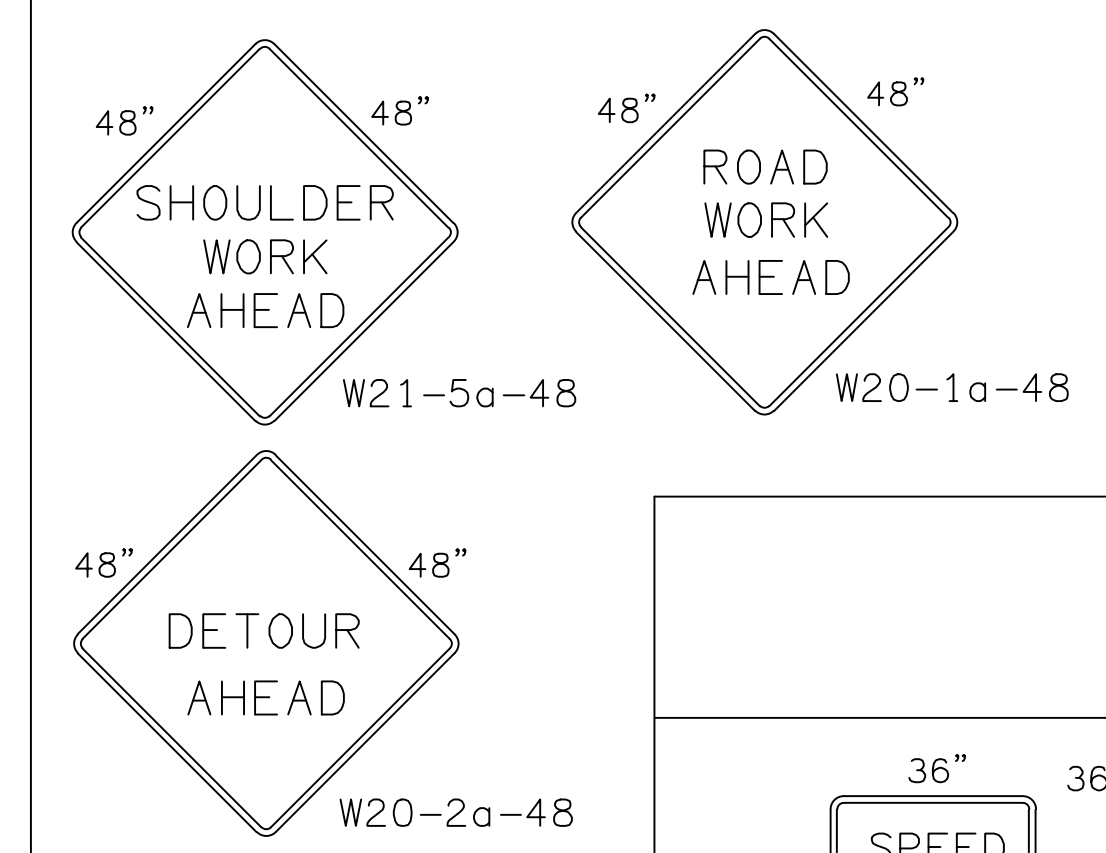
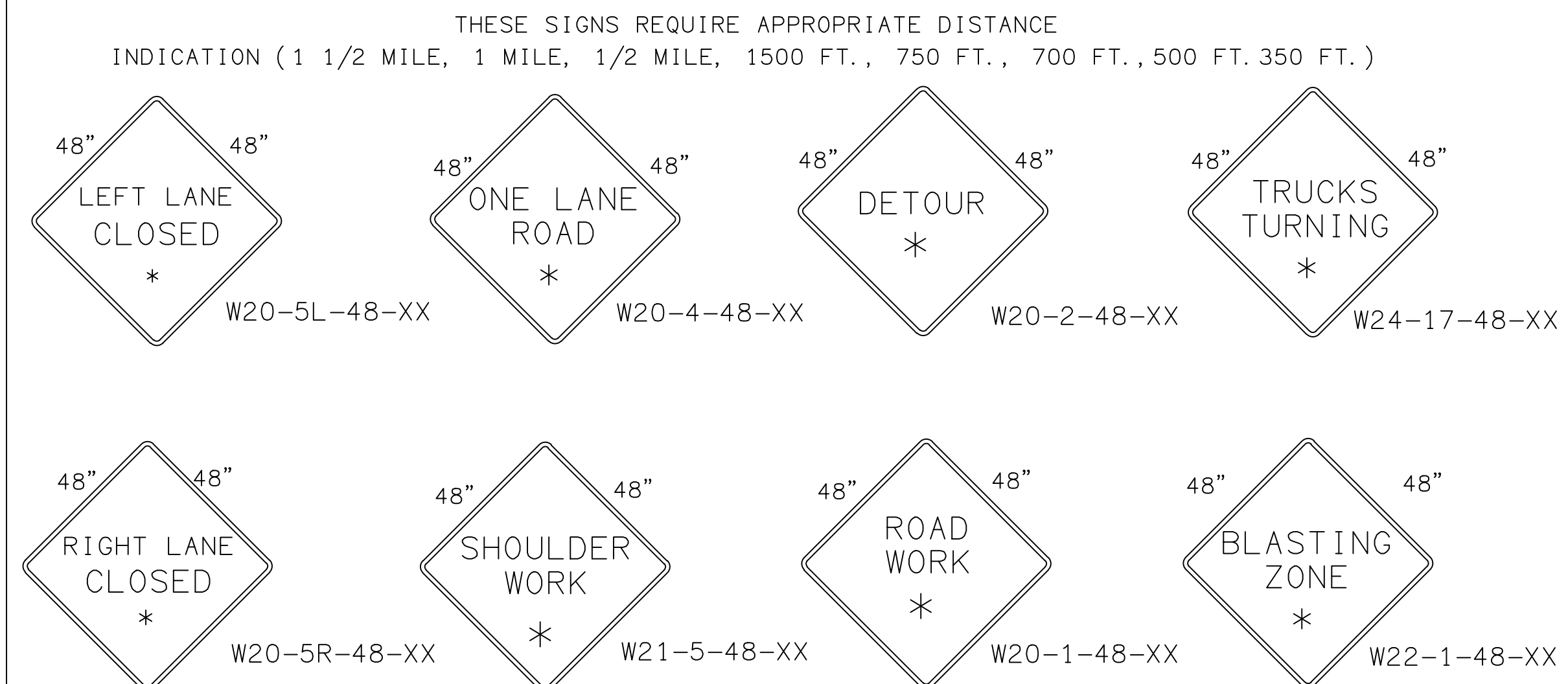
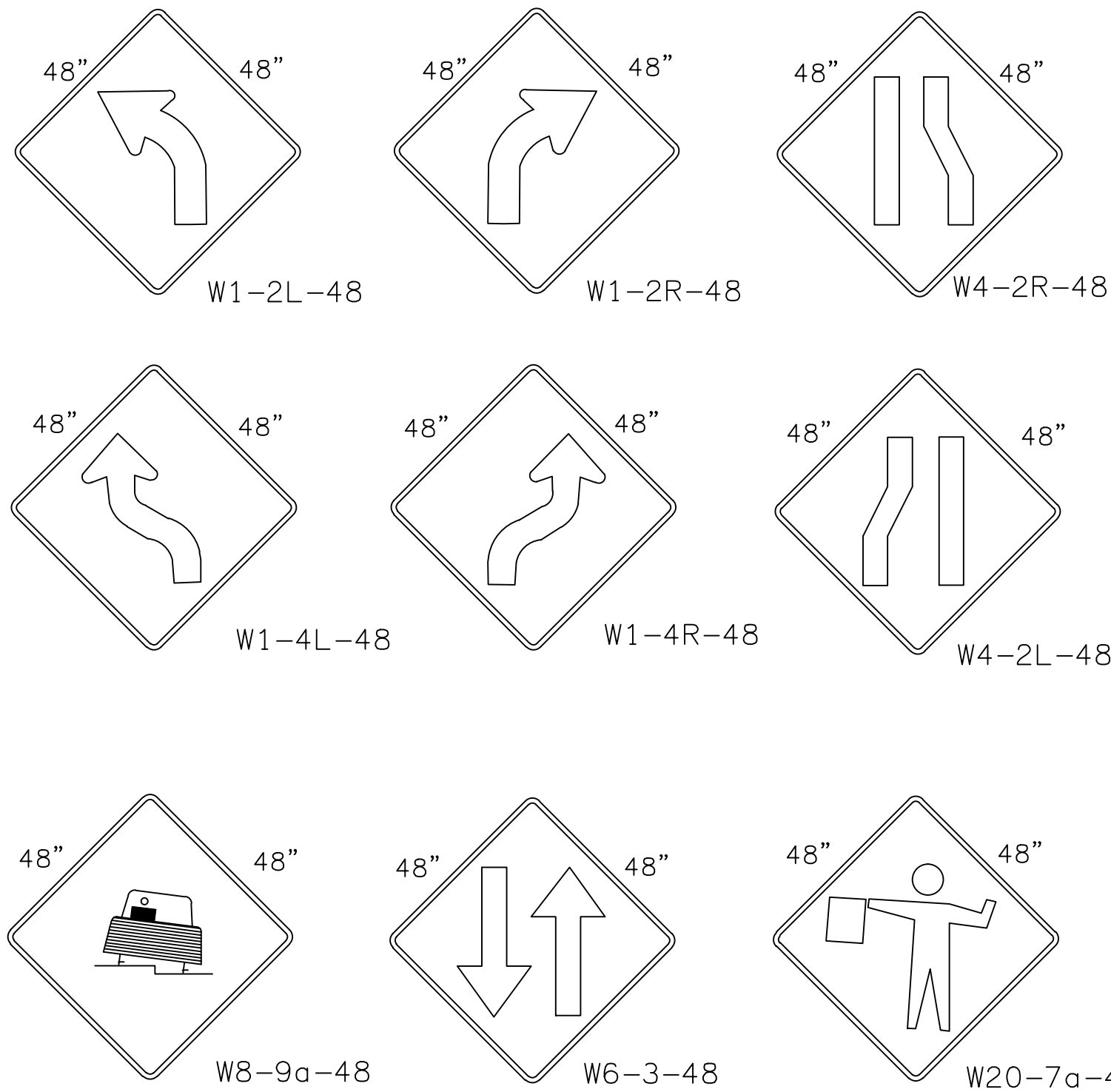


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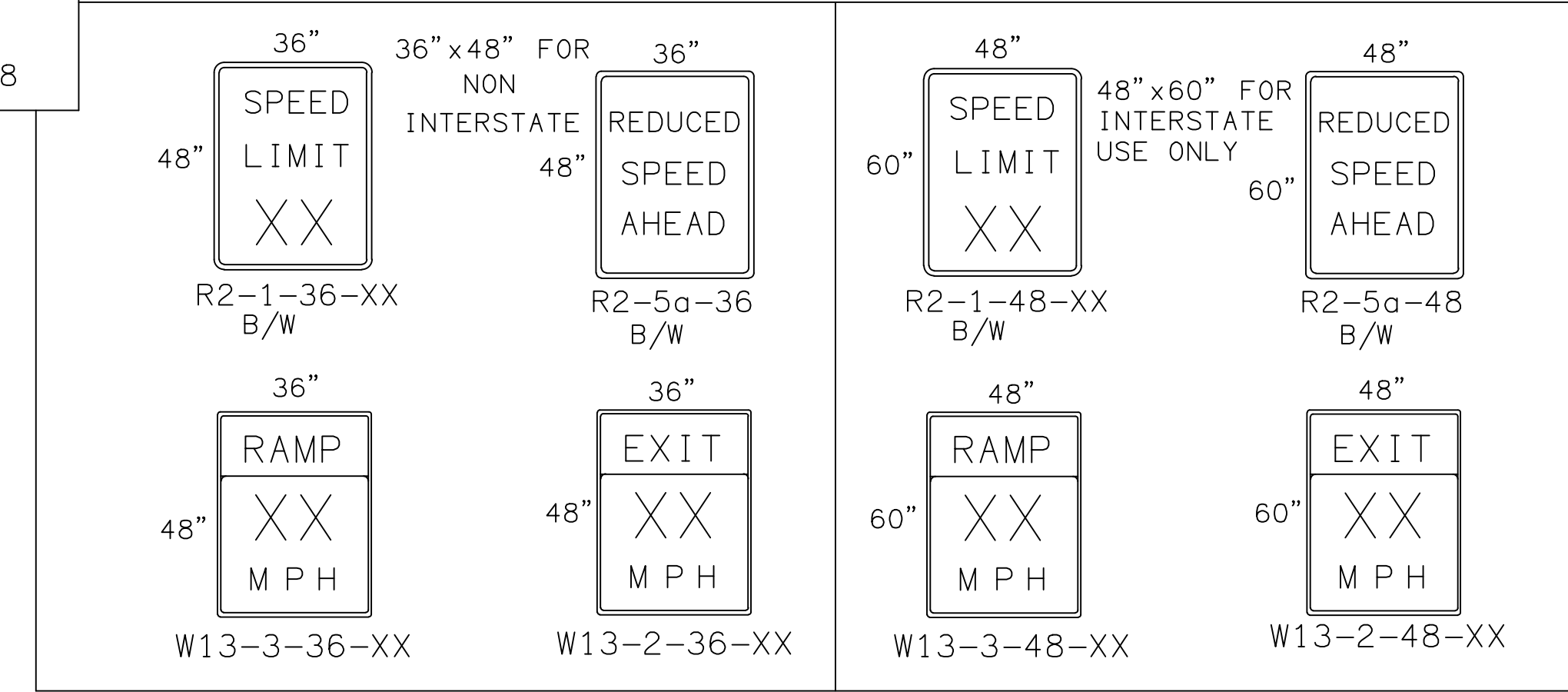
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Sheet: D-7		

SIGN FACE DETAILS FOR CONSTRUCTION/MAINTENANCE

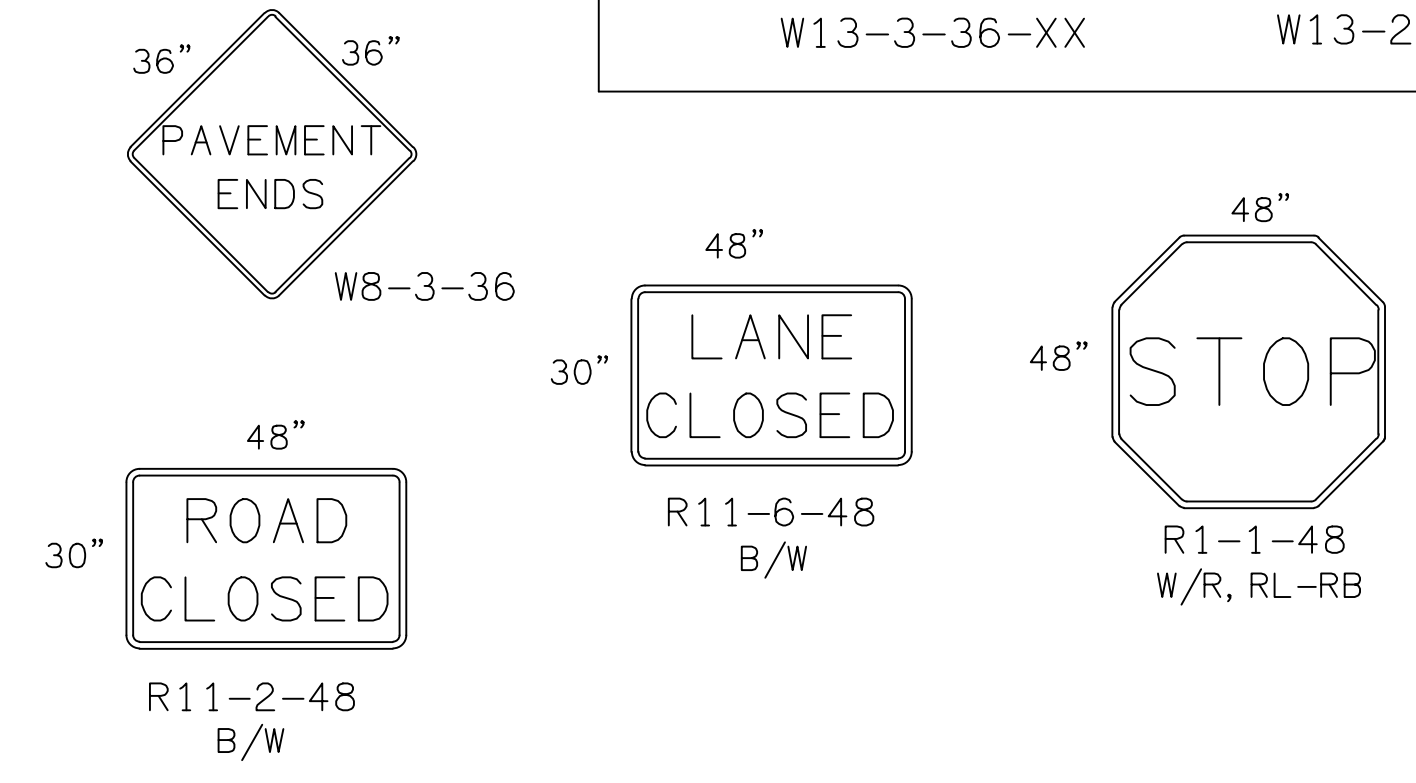
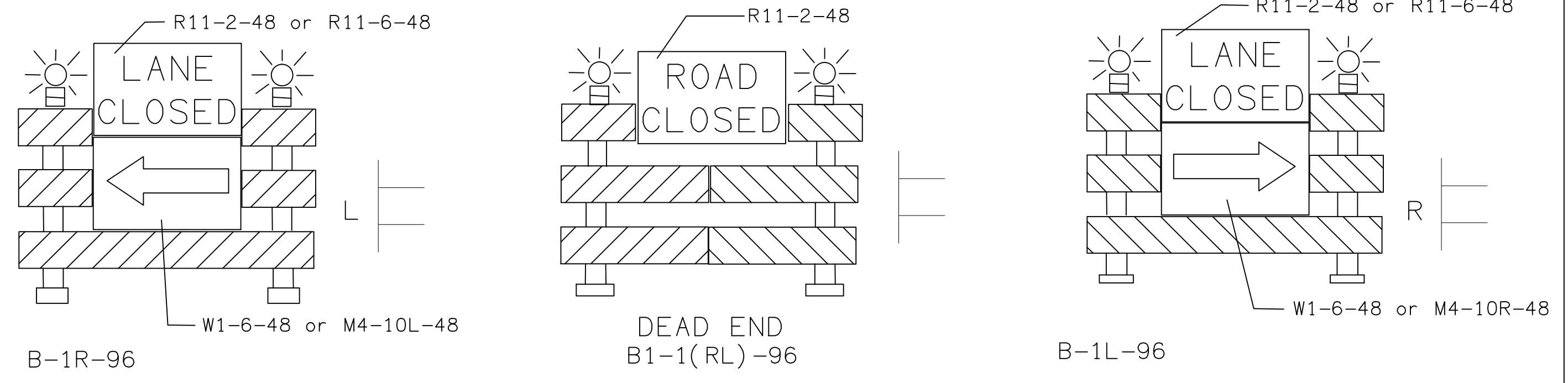
ALL SIGNS ARE BLACK ON ORANGE
UNLESS OTHERWISE SPECIFIED



ALL TYPE "H" DRUMS SHALL COMPLY WITH THE SPECIFICATION OF SECTION 702-TRAFFIC CONTROL DEVICES FOR CONSTRUCTION, NMSHTD STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 1994 EDITION



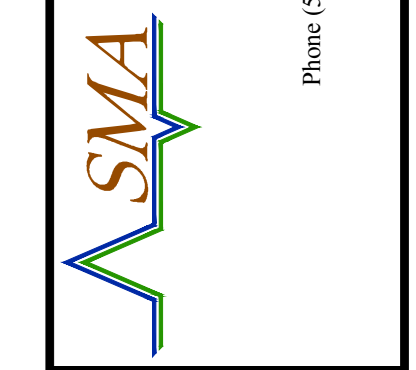
8 FT. TYPE III BARRICADES



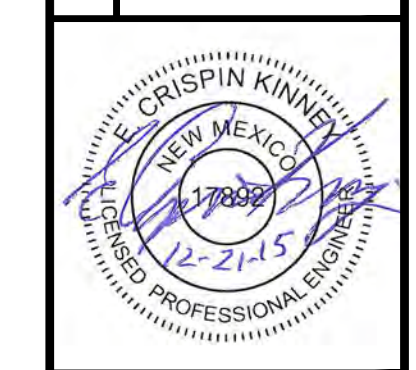
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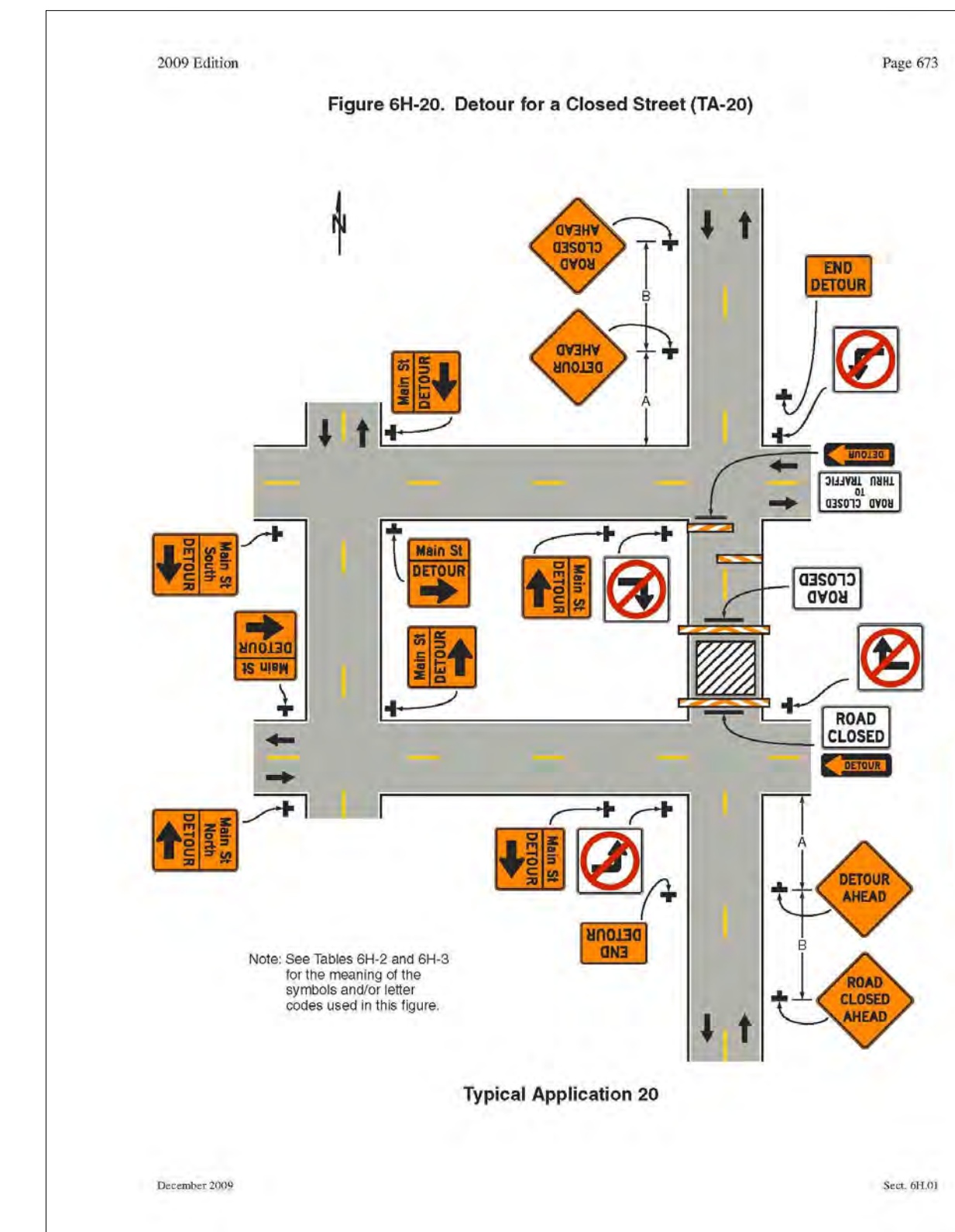
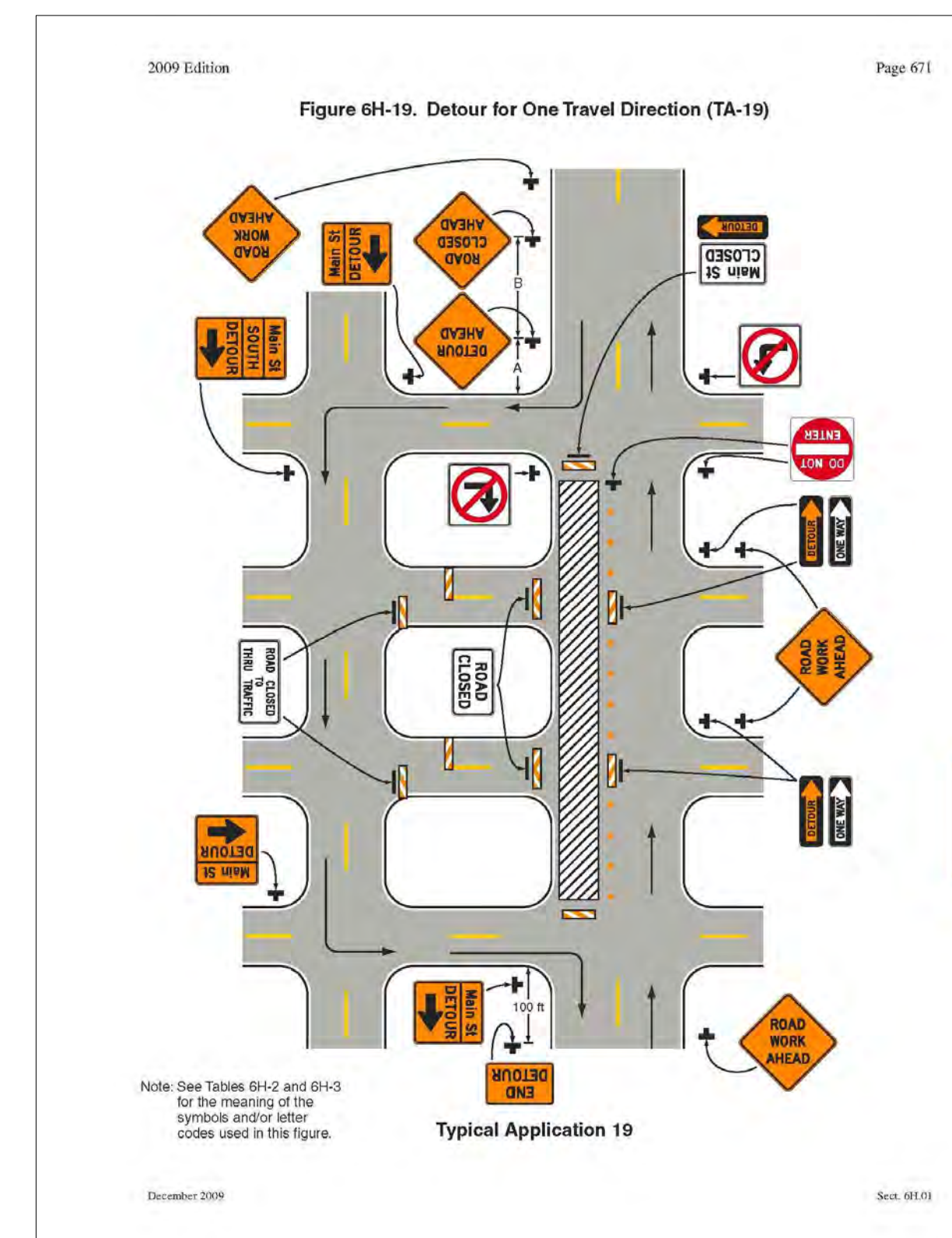
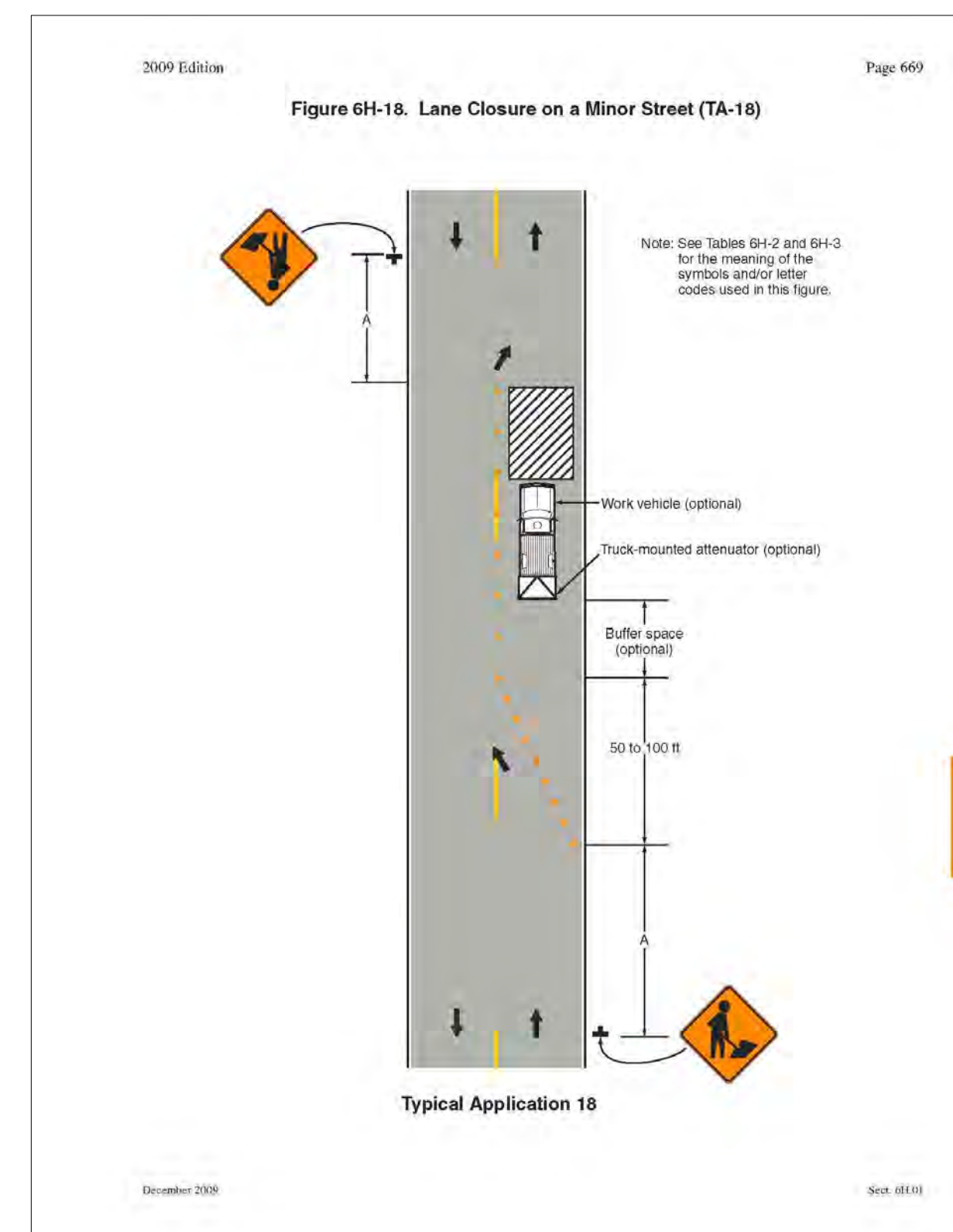
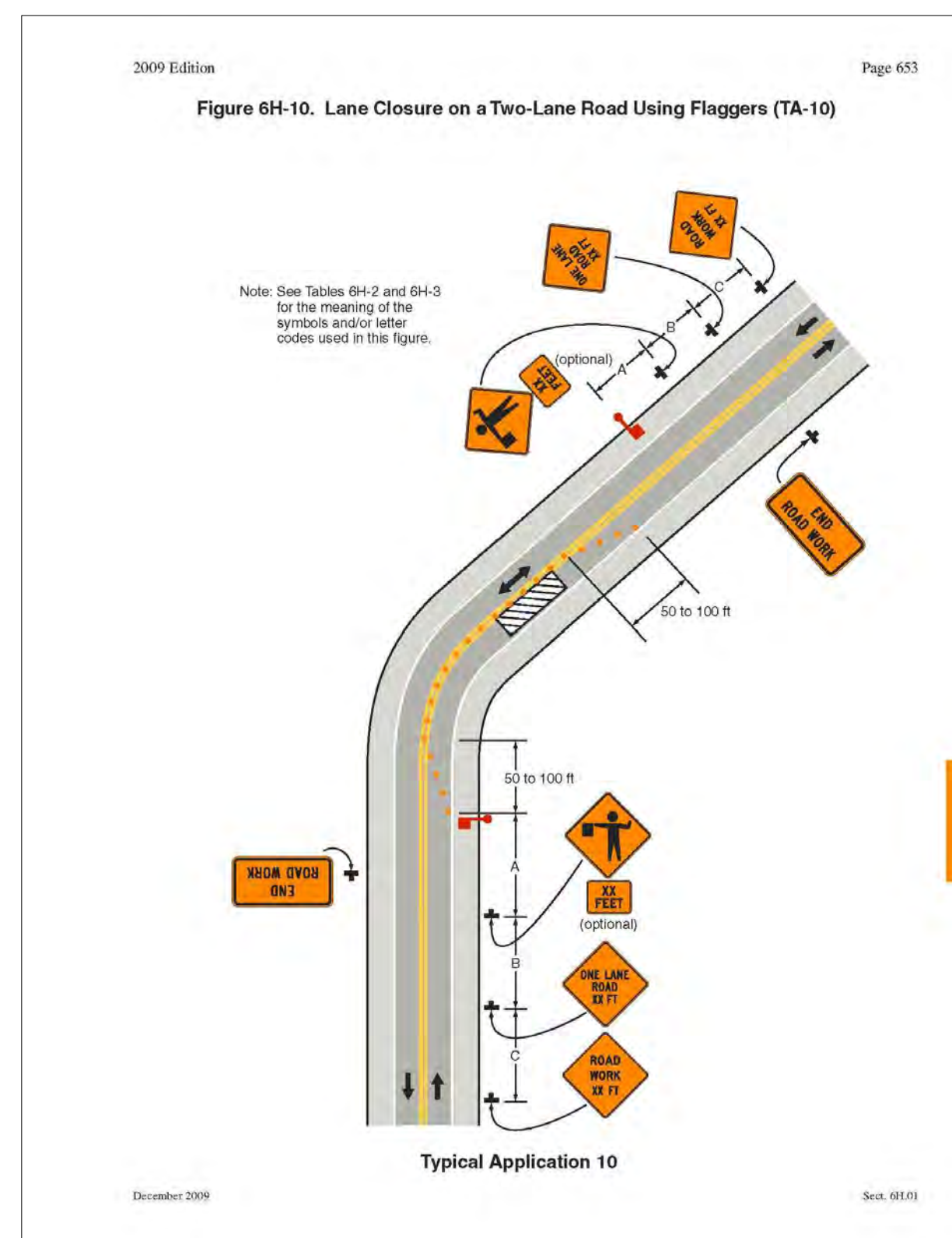
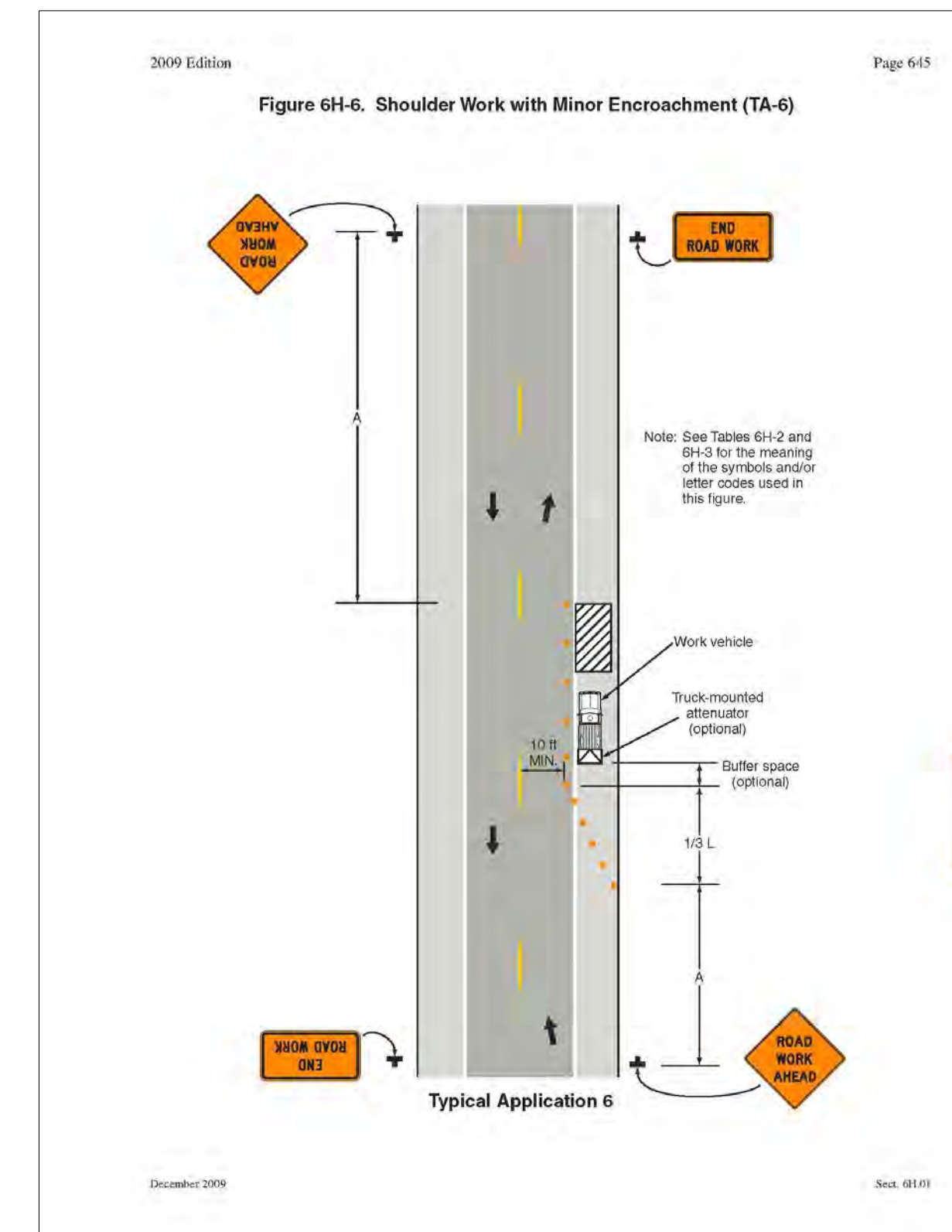
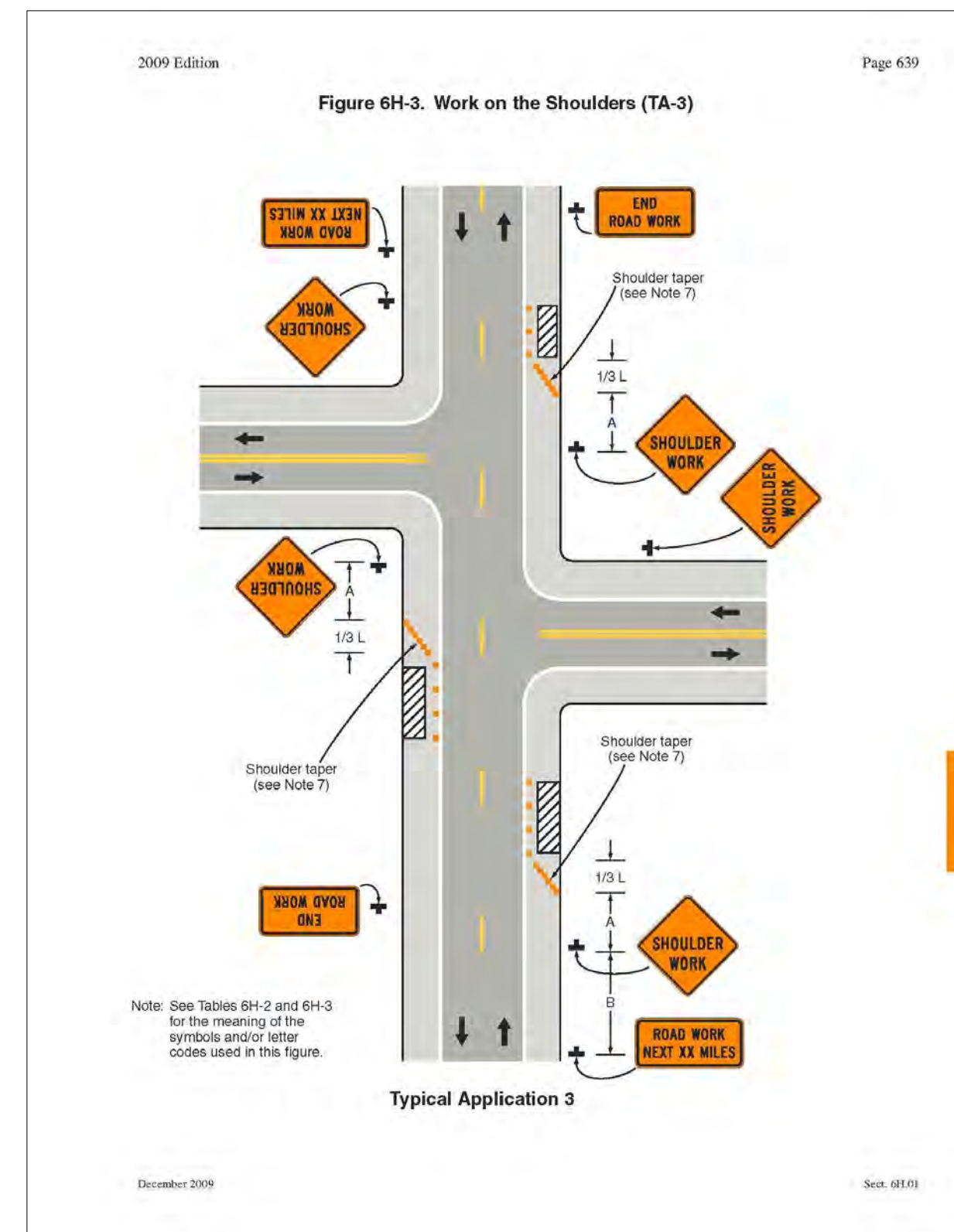
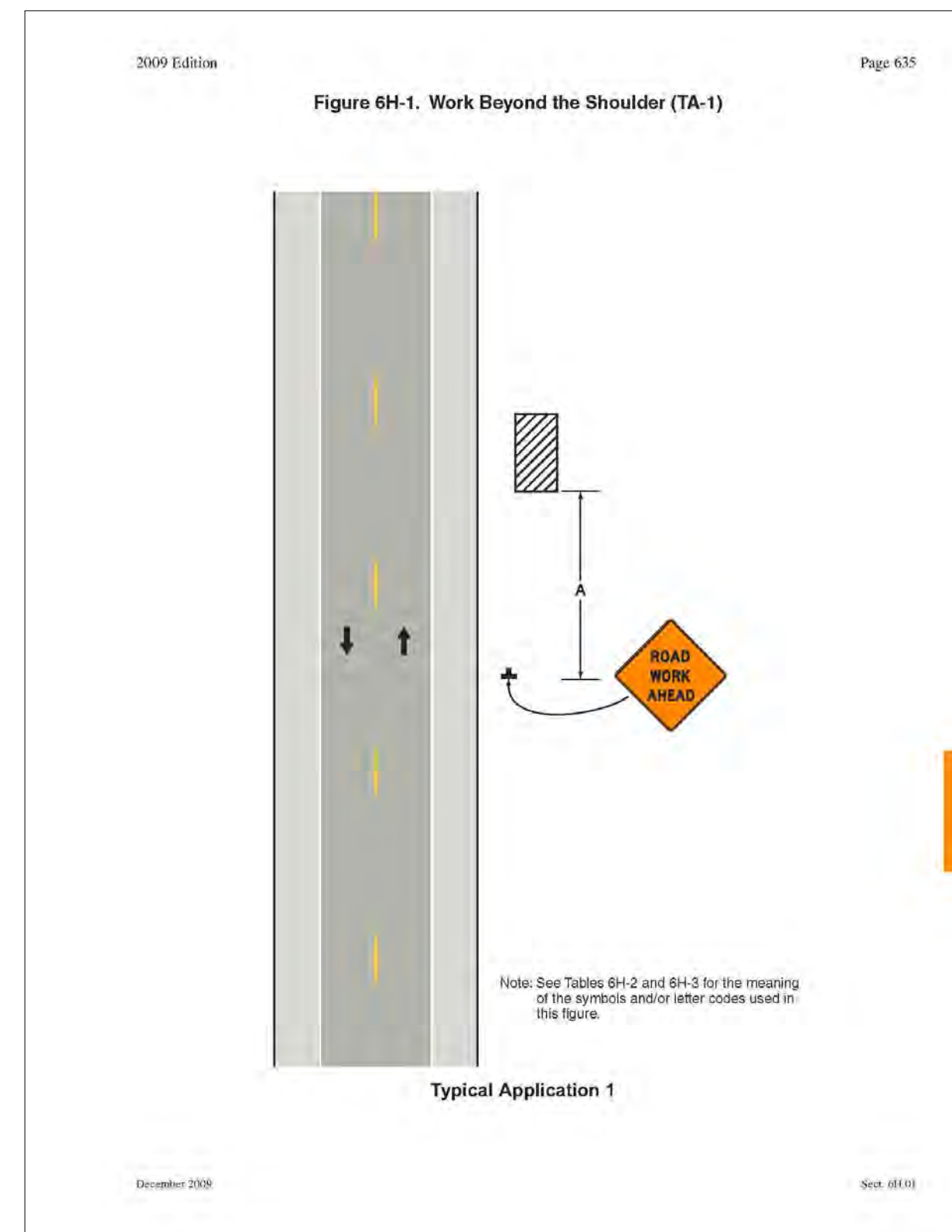


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**TAOS PUEBLO
WATER & WASTEWATER EXPANSION
SIGN FACE DETAILS**



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TRAFFIC CONTROL

Professional Engineer
 12-21-15

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Project No:	6223190	
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NOTE: FOR ADDITIONAL INFORMATION, REFER TO CURRENT VERSION OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) - FHWA.