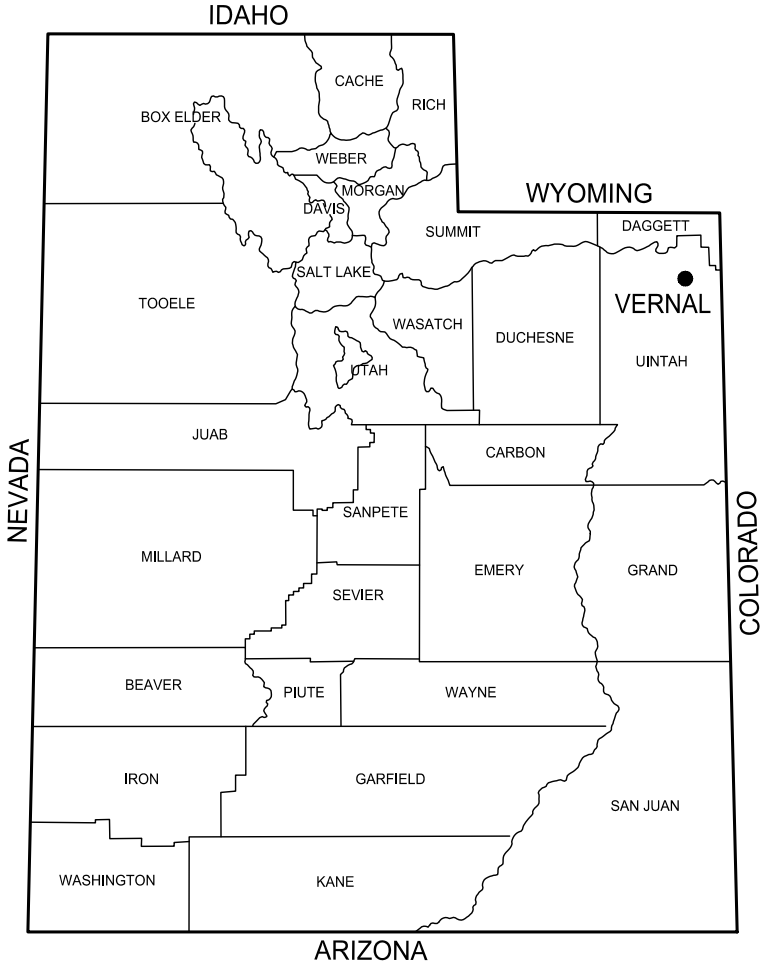


VERNAL CITY
100 NORTH UTILITY RECONSTRUCTION
VERNAL, UTAH, UTAH
2026

PROJECT NO.	SHEET NO.
2506-057	C-001
SUBMITTAL: FOR BIDDING ONLY	



VICINITY MAP

INDEX TO SHEETS	
SHEET NO.	SHEET TITLE
C-001	TITLE
C-002	LEGEND
C-003	INDEX
PP-01 to PP-15	PLAN & PROFILE
DT-01 to DT-09	DETAIL

APPROVAL

RECOMMENDED FOR APPROVAL:



ENGINEER DATE

APPROVED:

VERNAL CITY DATE



Jones & DeMille Engineering, Inc.
CIVIL & STRUCTURAL ENGINEERING - SURVEYING
GIS - ENVIRONMENTAL - MATERIALS TESTING
- shaping the quality of life -
1.800.748.5275 www.jonesanddemille.com

LEGEND

EXISTING FEATURES

	SANITARY SEWER LINE
	SANITARY SEWER MANHOLE
	CULINARY WATER LINE
	CULINARY WATER VALVE
	BURIED POWER LINE
	OVERHEAD POWER LINE
	BURIED TELEPHONE LINE
	OVERHEAD TELEPHONE LINE
	BURIED CABLE TV LINE
	OVERHEAD CABLE TV LINE
	FIBER OPTIC LINE
	NATURAL GAS LINE
	IRRIGATION LINE
	STORM DRAIN
	FENCE LINE (BARBED OR STOCKTIGHT)
	FENCE LINE (CHAIN LINK)
	DRAINAGE CULVERT
	CONCRETE SURFACING (SIDEWALK, CURB, GUTTER, ETC.)
	FLOW LINE OF DITCH
	EDGE OF ASPHALT SURFACING
	EDGE OF GRAVEL SURFACING
	EDGE OF DIRT SURFACING
	FIRE HYDRANT
	WATER METER
	GAS METER
	IRRIGATION METER
	STRUCTURE
	POWER POLE & GUY WIRE
	SANITARY SEWER CLEAN OUT
	TREE
	DELINEATOR POST
	STREET SIGN
	TELEPHONE PEDESTAL
	MAILBOX
	CABLE TV PEDESTAL
	STORM DRAIN MANHOLE
	IRRIGATION MANHOLE
	LIGHT POLE

MISC. FEATURES

	SUBDIVISION BOUNDARY LINE
	LOT LINES
	EXISTING RIGHT OF WAY LINE
	EXISTING N/A LINE
	EXISTING CITY BLOCK LINES
	PROPOSED RIGHT-OF-WAY LINE
	SECTION LINE
	QUARTER SECTION LINE
	(P.U.E.) PUBLIC UTILITY EASEMENT
	DEED LINE
	PROPERTY LINE

ABBREVIATIONS

TBC	TOP BACK OF CURB	EPP	POWER POLE
FLG	FLOW LINE OF GUTTER	SMH	SEWER MANHOLE
LOC	LIP OF CURB	CMH	COMMUNICATION MANHOLE
TSW	TOP OF SIDEWALK	R/W	RIGHT-OF-WAY
TOC	TOP OF CONCRETE	T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
EOA	EDGE OF ASPHALT	P.U.E.	PUBLIC UTILITY EASEMENT
TOA	TOP OF ASPHALT		
TOG	TOP OF GRATE	STA	STATION
FLC	FLOW LINE OF CULVERT	L / LT	LEFT
SW	SIDEWALK	R / RT	RIGHT
EG	EXISTING GROUND		
FG	FINISHED GRADE		
CIP	CAST-IN-PLACE		
M&P	MEASUREMENT AND PAYMENT		

	FITTING CALL OUT
	FITTING SIZE
	VALVE CALL OUT
	VALVE QUANTITY AND SIZE

PROPOSED FEATURES

	SANITARY SEWER LINE
	SANITARY SEWER MANHOLE
	SANITARY SEWER SERVICE
	CULINARY WATER LINE
	CULINARY WATER VALVE
	BURIED POWER LINE
	OVERHEAD POWER LINE
	BURIED TELEPHONE LINE
	OVERHEAD TELEPHONE LINE
	BURIED CABLE TV LINE
	OVERHEAD CABLE TV LINE
	FIBER OPTIC LINE
	NATURAL GAS LINE
	IRRIGATION LINE
	STORM DRAIN
	FENCE LINE (BARBED OR STOCKTIGHT)
	FENCE LINE (CHAIN LINK)
	DRAINAGE CULVERT
	EDGE OF ASPHALT
	EDGE OF CONCRETE
	FIRE HYDRANT
	CULINARY WATER METER
	GAS METER
	DELINEATOR POST
	STREET SIGN
	POWER POLE
	MAILBOX
	LIGHT POLE
	CONCRETE SURFACING
	ASPHALT SURFACING
	TOP OF CUT LIMITS
	TOE OF FILL LIMITS

Jones & DeMille Engineering, Inc.
CIVIL & STRUCTURAL ENGINEERING • SURVEYING
GIS • ENVIRONMENTAL • MATERIALS TESTING
1,800.748.5275 www.jonesanddemic.com

VERNAL CITY
100 NORTH UTILITY RECONSTRUCTION

LEGEND

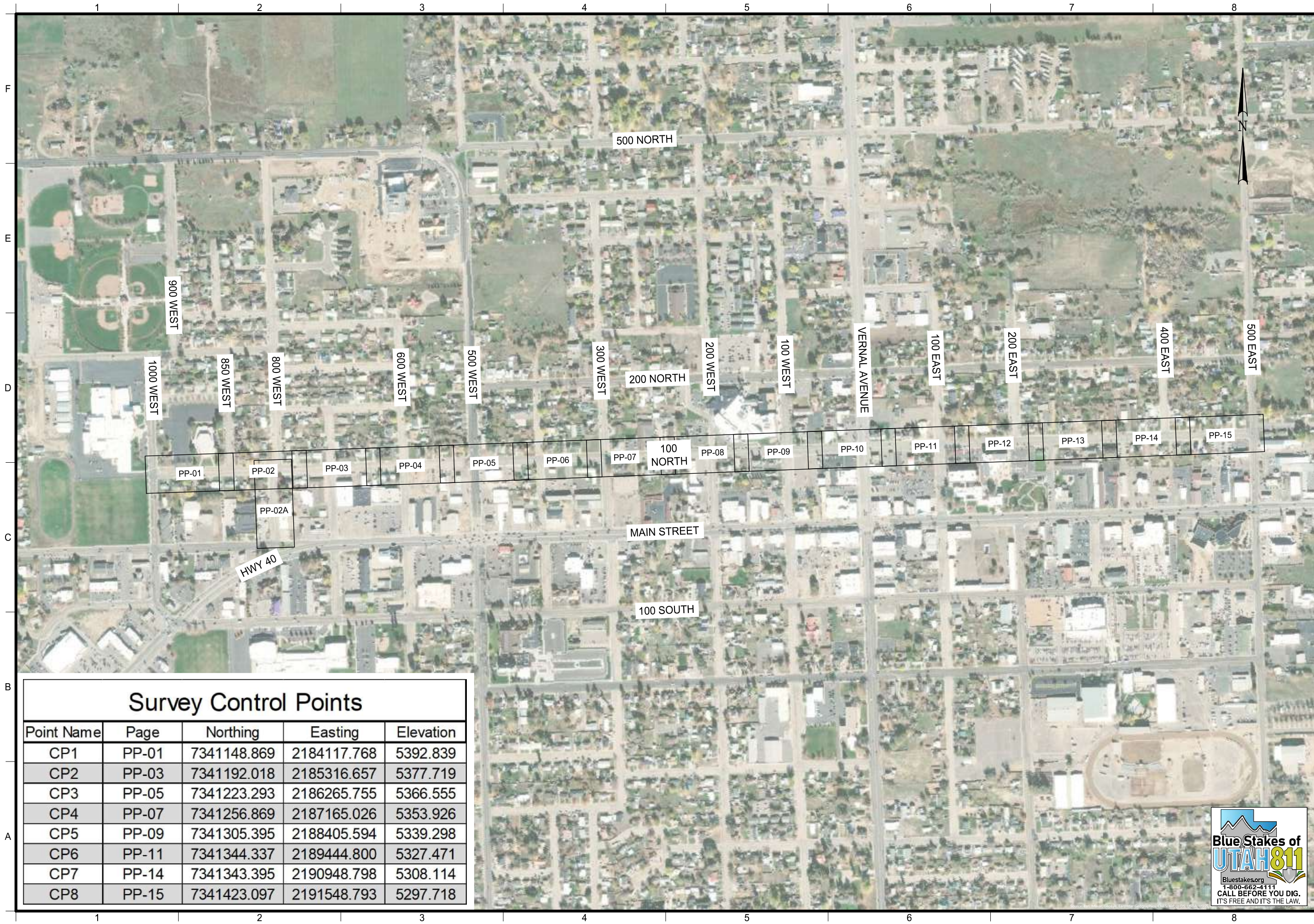
UINTAH
COUNTY

SHEET NO. C-002

SUBMITTAL: FOR BIDDING ONLY PROJECT NUMBER: 2506-057

DWG NAME: H:\2506-057\dwg\Title_2506-057.dwg SCALE: NONE
REVISED: 12/27/2026
REVISED: 12/27/2026

REVISIONS		REMARKS
NO	DATE	



Survey Control Points

Point Name	Page	Northing	Easting	Elevation
CP1	PP-01	7341148.869	2184117.768	5392.839
CP2	PP-03	7341192.018	2185316.657	5377.719
CP3	PP-05	7341223.293	2186265.755	5366.555
CP4	PP-07	7341256.869	2187165.026	5353.926
CP5	PP-09	7341305.395	2188405.594	5339.298
CP6	PP-11	7341344.337	2189444.800	5327.471
CP7	PP-14	7341343.395	2190948.798	5308.114
CP8	PP-15	7341423.097	2191548.793	5297.718





Jones & DeMille Engineering, Inc.
CIVIL & STRUCTURAL ENGINEERING • SURVEYING
GIS • ENVIRONMENTAL • MATERIALS TESTING
1.800.748.5275 www.jonesanddemicile.com

VERNAL CITY

100 NORTH UTILITY RECONSTRUCTION

UINTAH COUNTY

SHEET NO. C-003

INDEX

SUBMITTAL: FOR BIDDING ONLY

PROJECT NUMBER: 2506-057

REVISIONS

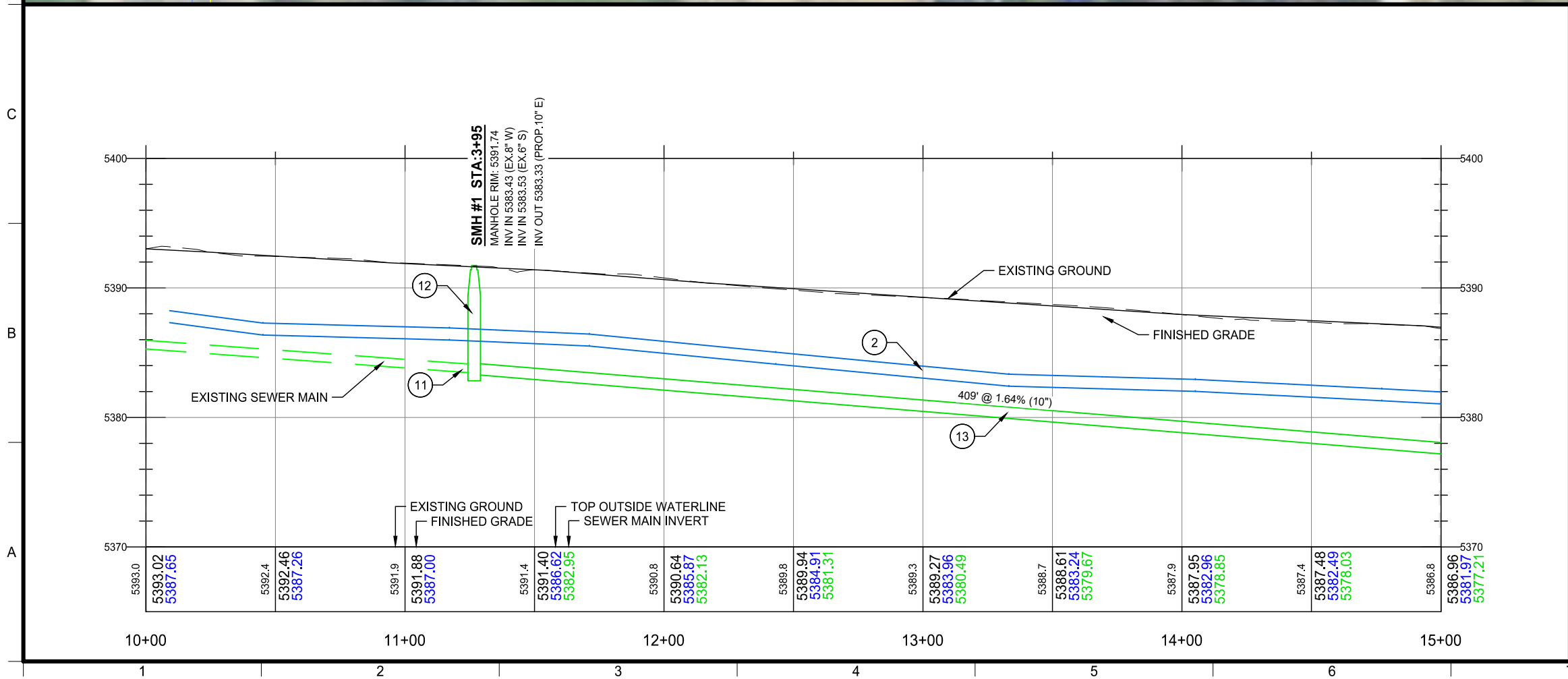
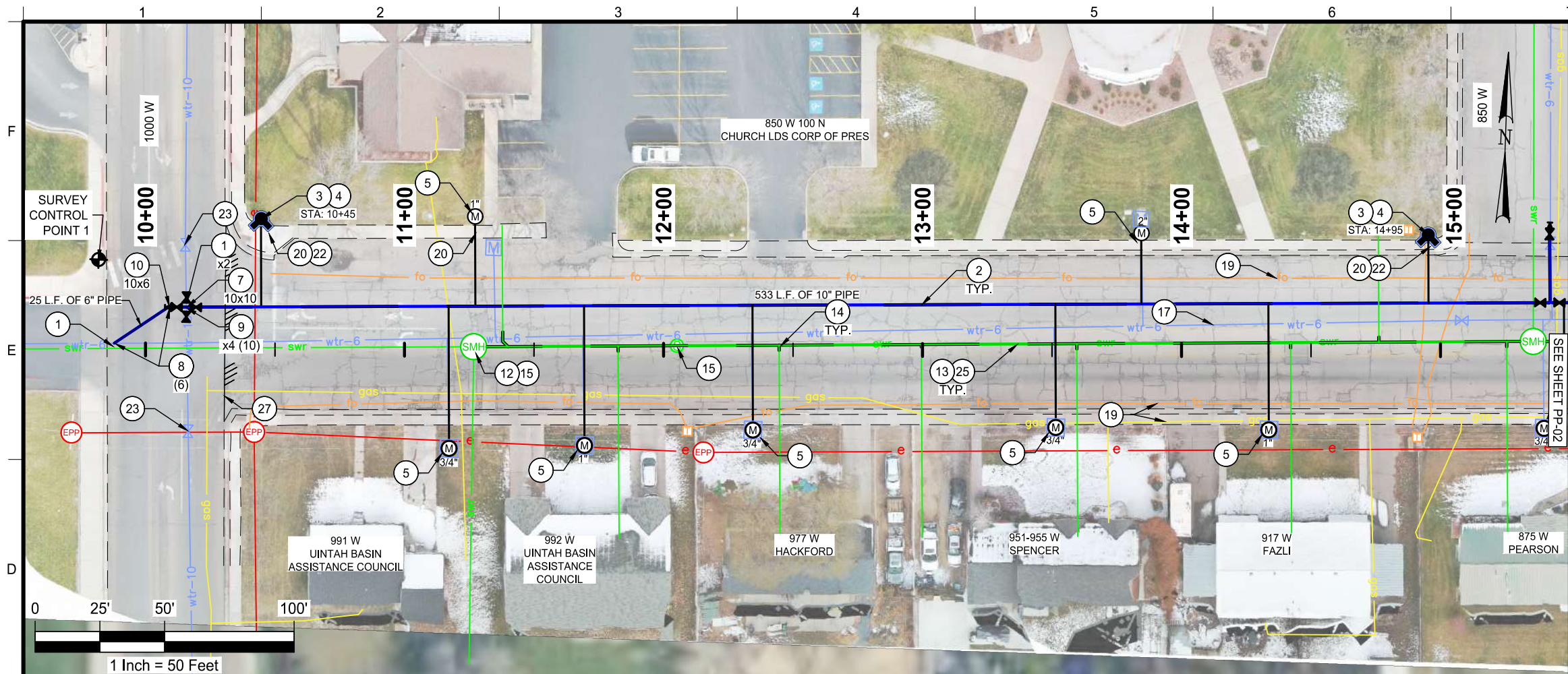
NO	DATE	REMARKS

DWG NAME: H:\2506-057\dwg\Title_2506-057.dwg

SCALE: 1" = 600'

UPDATED: 12/7/2026

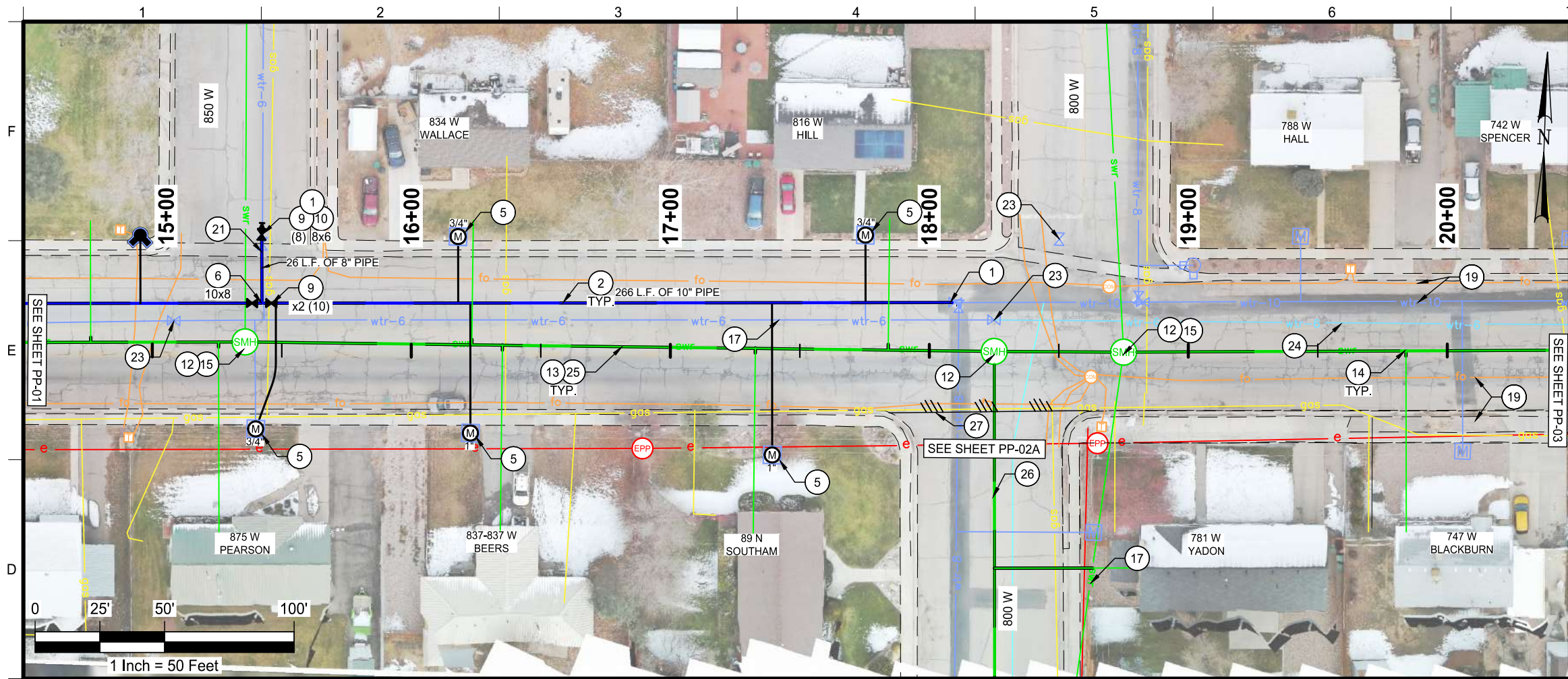
FLOTTED: 12/7/2026

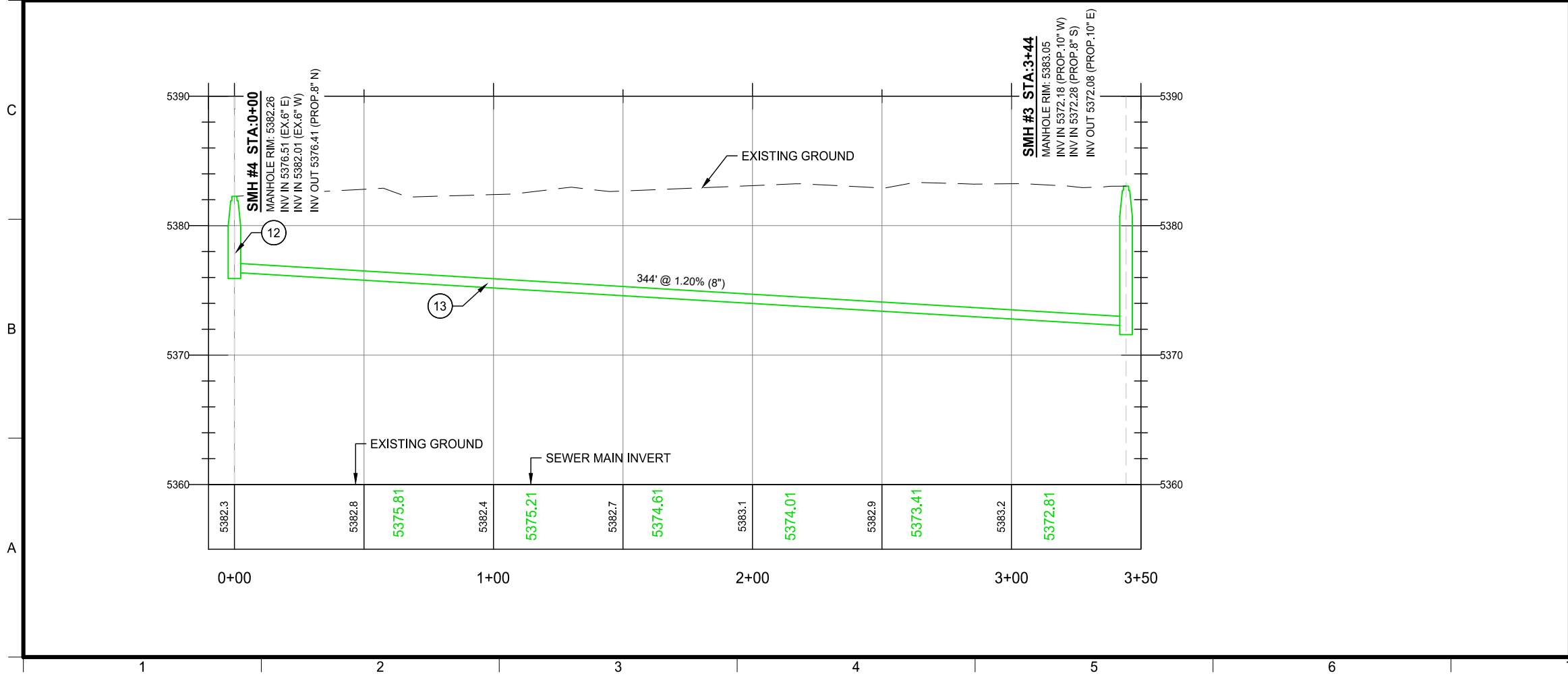
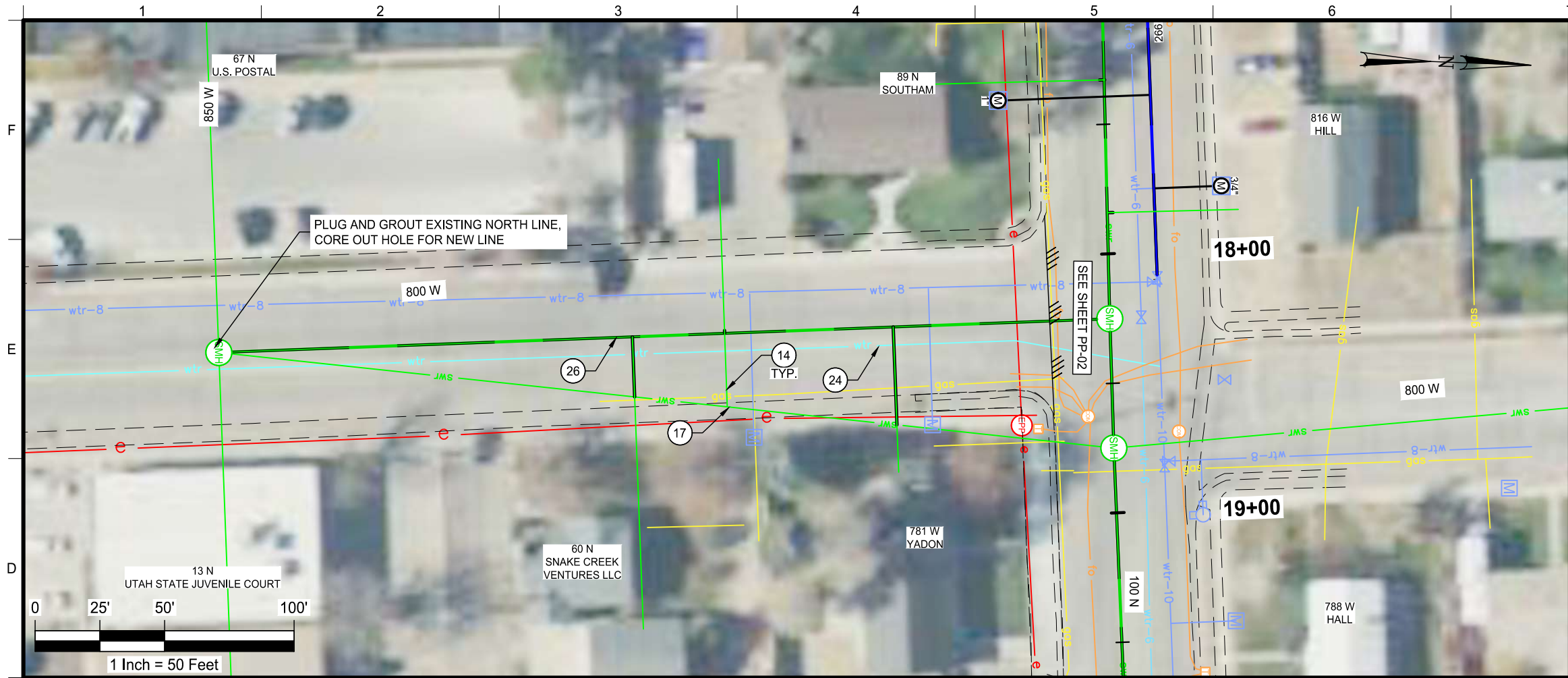


- KEYNOTES**
- 1 TIE-IN TO EXISTING WATER LINE
 - 2 INSTALL C900 DR18 PVC WATERLINE - MATCH SIZE SHOWN - SEE DETAIL
 - 3 REMOVE FIRE HYDRANT
 - 4 INSTALL NEW FIRE HYDRANT
 - 5 REPLACE WATER METER & SERVICE LINE. UTILIZE TRENCHLESS METHODS FOR BOTH SHORT AND LONG SIDE SERVICES. UTILIZE OPEN TRENCH METHODS IF TRENCHLESS METHOD FAILS.
 - 6 INSTALL TEE - MATCH SIZE SHOWN.
 - 7 INSTALL CROSS - MATCH SIZE SHOWN.
 - 8 INSTALL ELBOW FITTING - MATCH SIZE SHOWN.
 - 9 INSTALL GATE VALVE - MATCH SIZE SHOWN.
 - 10 INSTALL REDUCER - MATCH SIZE SHOWN
 - 11 TIE IN TO EXISTING SEWER LINE, SEE DETAIL.
 - 12 INSTALL NEW 48" SEWER MANHOLE, CONNECT NEW AND EXISTING SEWER MAIN TO MANHOLE
 - 13 NEW 10" SDR 35 SEWER MAIN
 - 14 CONNECT SEWER SERVICE LATERAL TO NEW MAIN
 - 15 REMOVE EXISTING MANHOLE
 - 16 ABANDON MANHOLE. SEE DETAIL
 - 17 ABANDON EXISTING UTILITY AND CAP ENDS.
 - 18 SAWCUT, REMOVE & REPLACE CONCRETE WATER WAY
 - 19 PROTECT IN PLACE EXISTING UTILITY. FIELD VERIFY LOCATION AND ELEVATION.
 - 20 SAWCUT, REMOVE AND REPLACE CONCRETE FLATWORK. SEE DETAIL
 - 21 SAWCUT, REMOVE AND REPLACE CONCRETE WATERWAY
 - 22 SAWCUT, REMOVE AND REPLACE CONCRETE CURB AND GUTTER
 - 23 ABANDON EXISTING VALVE. SEE DETAIL.
 - 24 ABANDONED WATERLINE.
 - 25 REMOVE EXISTING SEWER LINE.
 - 26 NEW 8" SDR SEWER MAIN
 - 27 ROTOMILL ROADWAY CUT LINE, PLACE 2" OVERLAY. UTILITIES OUTSIDE OF CUT LINES SHALL BE CLASS A ROAD REPAIR.



JONES & DEMILLE ENGINEERING, Inc. CIVIL & STRUCTURAL ENGINEERING - SURVEYING GIS - ENVIRONMENTAL - MATERIALS TESTING 1.800.748.5275 www.jonesanddemicile.com	
VERNAL CITY 100 NORTH UTILITY RECONSTRUCTION	
PLAN & PROFILE	
SHEET NO. PP-01	
SUBMITTAL: FOR BIDDING ONLY	
PROJECT NUMBER: 2506-057	
DWG NAME: H:\2506-057\dwg\PP_2506-057.dwg	
UPDATED: 1/27/2026	
PLOTTED: 1/27/2026	
SCALE: 1" = 50'	
REVISIONS	
NO	DATE
REMARKS	





- KEYNOTES**
- 1 TIE-IN TO EXISTING WATER LINE
 - 2 INSTALL C900 DR18 PVC WATERLINE - MATCH SIZE SHOWN - SEE DETAIL
 - 3 REMOVE FIRE HYDRANT
 - 4 INSTALL NEW FIRE HYDRANT
 - 5 REPLACE WATER METER & SERVICE LINE. UTILIZE TRENCHLESS METHODS FOR BOTH SHORT AND LONG SIDE SERVICES. UTILIZE OPEN TRENCH METHODS IF TRENCHLESS METHOD FAILS.
 - 6 INSTALL TEE - MATCH SIZE SHOWN.
 - 7 INSTALL CROSS - MATCH SIZE SHOWN.
 - 8 INSTALL ELBOW FITTING - MATCH SIZE SHOWN.
 - 9 INSTALL GATE VALVE - MATCH SIZE SHOWN.
 - 10 INSTALL REDUCER - MATCH SIZE SHOWN
 - 11 TIE IN TO EXISTING SEWER LINE, SEE DETAIL.
 - 12 INSTALL NEW 48" SEWER MANHOLE, CONNECT NEW AND EXISTING SEWER MAIN TO MANHOLE
 - 13 NEW 10" SDR 35 SEWER MAIN
 - 14 CONNECT SEWER SERVICE LATERAL TO NEW MAIN
 - 15 REMOVE EXISTING MANHOLE
 - 16 ABANDON MANHOLE. SEE DETAIL
 - 17 ABANDON EXISTING UTILITY AND CAP ENDS.
 - 18 SAWCUT, REMOVE & REPLACE CONCRETE WATER WAY
 - 19 PROTECT IN PLACE EXISTING UTILITY. FIELD VERIFY LOCATION AND ELEVATION.
 - 20 SAWCUT, REMOVE AND REPLACE CONCRETE FLATWORK. SEE DETAIL
 - 21 SAWCUT, REMOVE AND REPLACE CONCRETE WATERWAY
 - 22 SAWCUT, REMOVE AND REPLACE CONCRETE CURB AND GUTTER
 - 23 ABANDON EXISTING VALVE. SEE DETAIL.
 - 24 ABANDONED WATERLINE.
 - 25 REMOVE EXISTING SEWER LINE.
 - 26 NEW 8" SDR SEWER MAIN
 - 27 ROTOMILL ROADWAY CUT LINE, PLACE 2" OVERLAY. UTILITIES OUTSIDE OF CUT LINES SHALL BE CLASS A ROAD REPAIR.

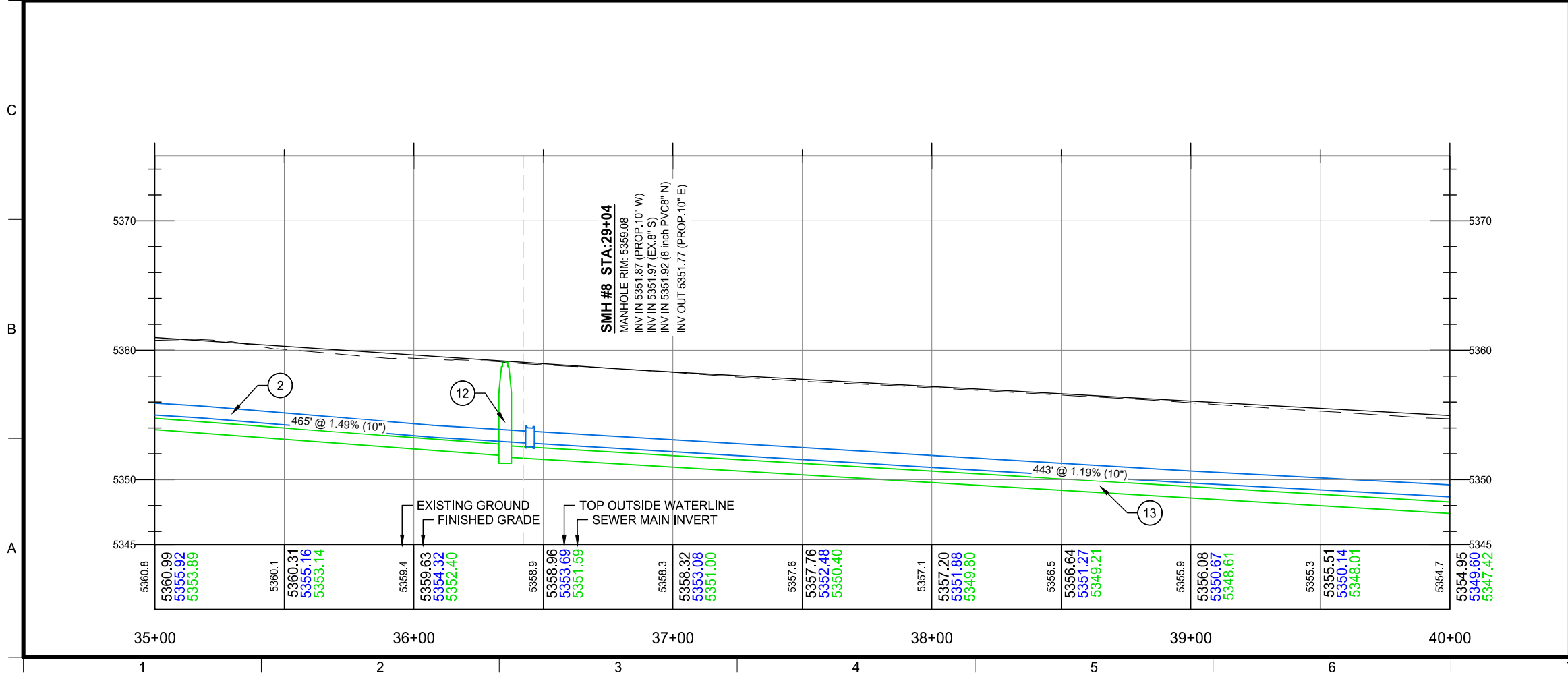
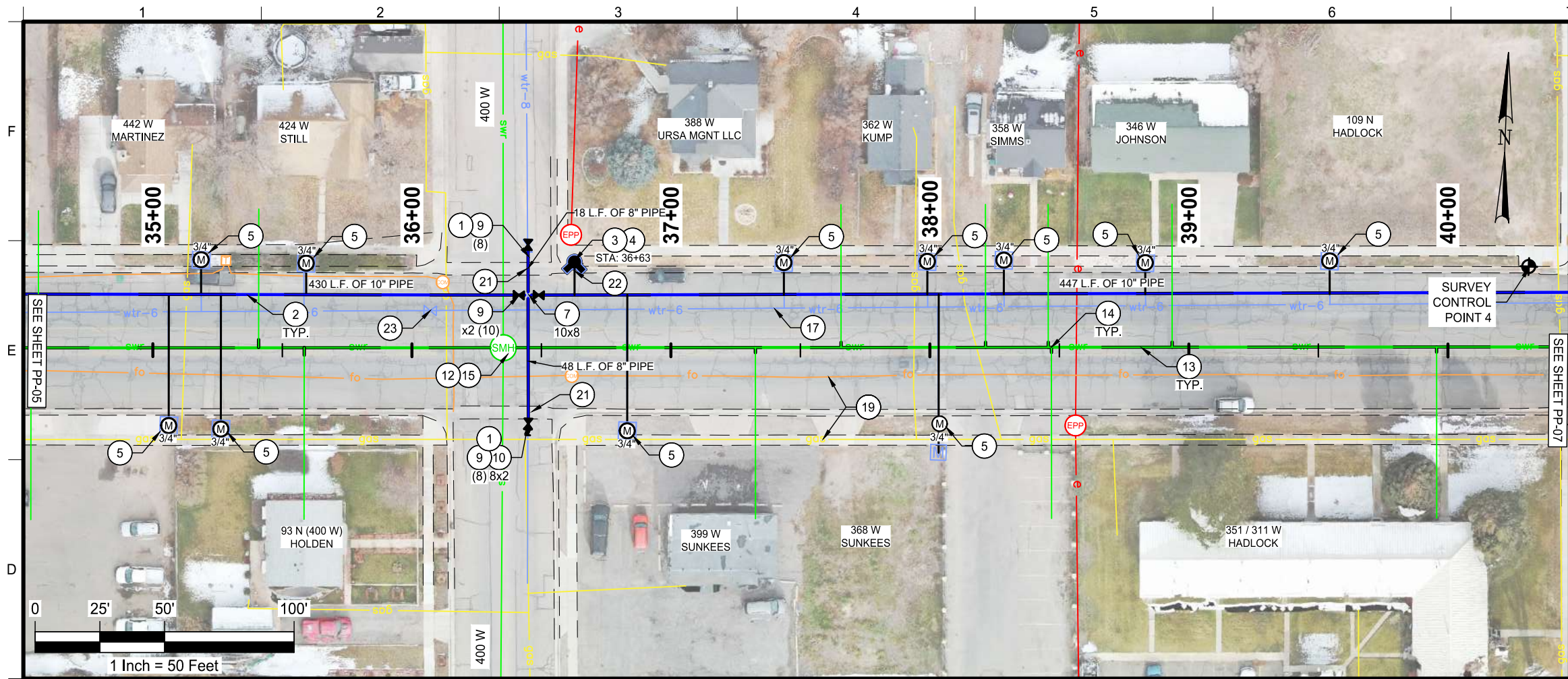
Jones & DeMille Engineering, Inc.
CIVIL & STRUCTURAL ENGINEERING - SURVEYING
GIS - ENVIRONMENTAL - MATERIALS TESTING
1.800.748.5275 www.jonesanddemic.com

VERNAL CITY	
100 NORTH UTILITY RECONSTRUCTION	
PLAN & PROFILE	
SUBMITTAL: FOR BIDDING ONLY	PROJECT NUMBER: 2506-057

UINTAH	
COUNTY	
SHEET NO.	PP-02A



--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



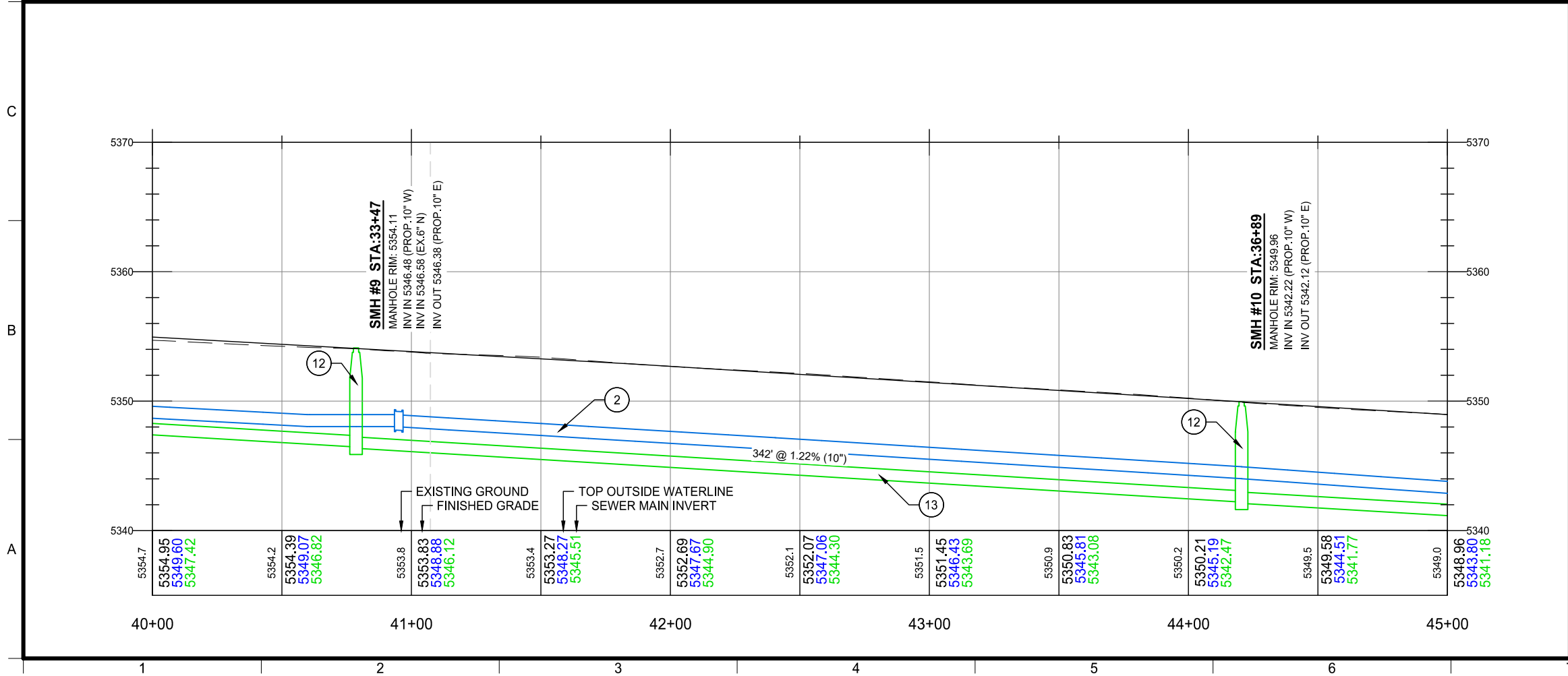
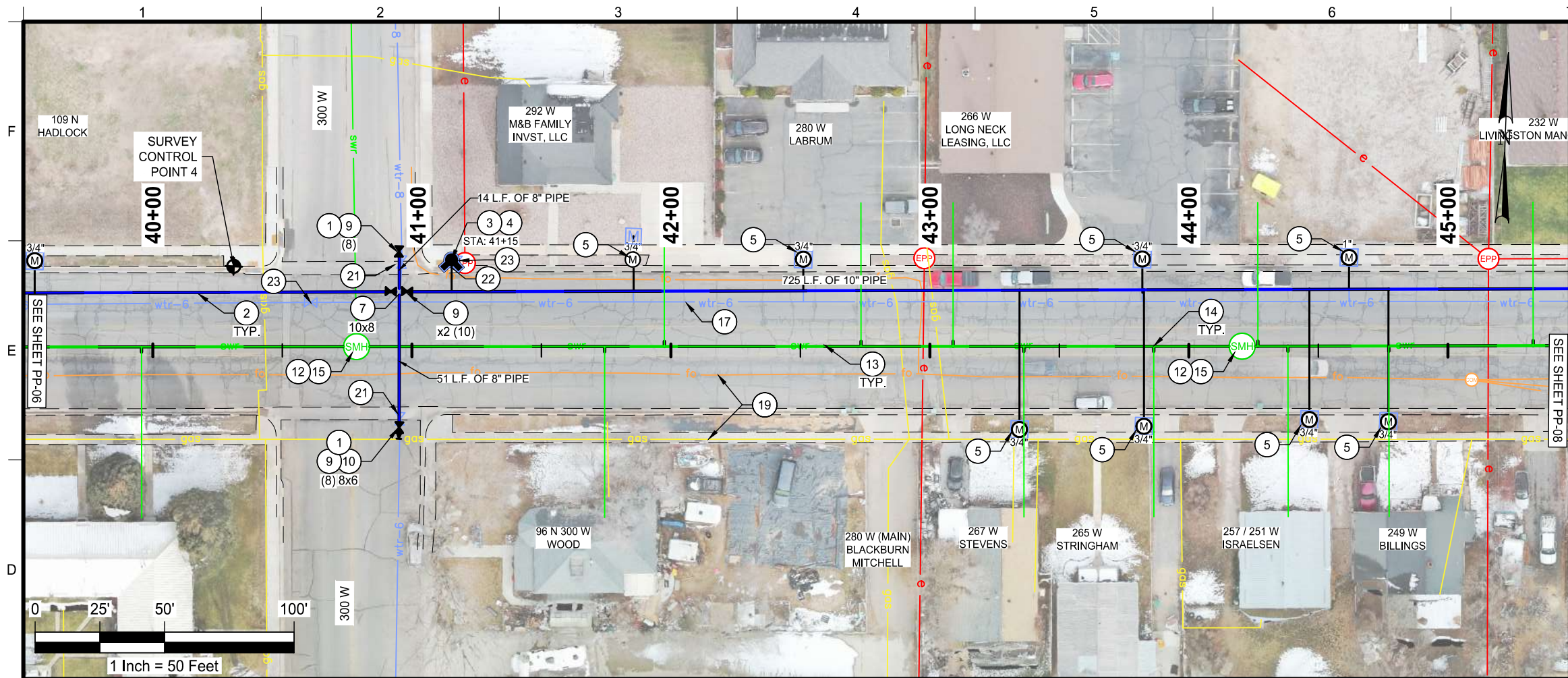
- ### KEYNOTES
- 1 TIE-IN TO EXISTING WATER LINE
 - 2 INSTALL C900 DR18 PVC WATERLINE - MATCH SIZE SHOWN - SEE DETAIL
 - 3 REMOVE FIRE HYDRANT
 - 4 INSTALL NEW FIRE HYDRANT
 - 5 REPLACE WATER METER & SERVICE LINE. UTILIZE TRENCHLESS METHODS FOR BOTH SHORT AND LONG SIDE SERVICES. UTILIZE OPEN TRENCH METHODS IF TRENCHLESS METHOD FAILS.
 - 6 INSTALL TEE - MATCH SIZE SHOWN.
 - 7 INSTALL CROSS - MATCH SIZE SHOWN.
 - 8 INSTALL ELBOW FITTING - MATCH SIZE SHOWN.
 - 9 INSTALL GATE VALVE - MATCH SIZE SHOWN.
 - 10 INSTALL REDUCER - MATCH SIZE SHOWN
 - 11 TIE IN TO EXISTING SEWER LINE, SEE DETAIL.
 - 12 INSTALL NEW 48" SEWER MANHOLE, CONNECT NEW AND EXISTING SEWER MAIN TO MANHOLE
 - 13 NEW 10" SDR 35 SEWER MAIN
 - 14 CONNECT SEWER SERVICE LATERAL TO NEW MAIN
 - 15 REMOVE EXISTING MANHOLE
 - 16 ABANDON MANHOLE. SEE DETAIL
 - 17 ABANDON EXISTING UTILITY AND CAP ENDS.
 - 18 SAWCUT, REMOVE & REPLACE CONCRETE WATER WAY
 - 19 PROTECT IN PLACE EXISTING UTILITY. FIELD VERIFY LOCATION AND ELEVATION.
 - 20 SAWCUT, REMOVE AND REPLACE CONCRETE FLATWORK. SEE DETAIL
 - 21 SAWCUT, REMOVE AND REPLACE CONCRETE WATERWAY
 - 22 SAWCUT, REMOVE AND REPLACE CONCRETE CURB AND GUTTER
 - 23 ABANDON EXISTING VALVE. SEE DETAIL.
 - 24 ABANDONED WATERLINE.
 - 25 REMOVE EXISTING SEWER LINE.
 - 26 NEW 8" SDR SEWER MAIN
 - 27 ROTOMILL ROADWAY CUT LINE, PLACE 2" OVERLAY. UTILITIES OUTSIDE OF CUT LINES SHALL BE CLASS A ROAD REPAIR.



JONES & DeMILLE Engineering, Inc. CIVIL & STRUCTURAL ENGINEERING - SURVEYING GIS - ENVIRONMENTAL - MATERIALS TESTING 1.800.748.5275 www.jonesanddemaille.com	
VERNAL CITY 100 NORTH UTILITY RECONSTRUCTION	
PLAN & PROFILE	
SUBMITTAL: FOR BIDDING ONLY PROJECT NUMBER: 2506-057	
UINTEAH COUNTY	
SHEET NO. PP-06	

REVISIONS	REMARKS	DATE	NO.

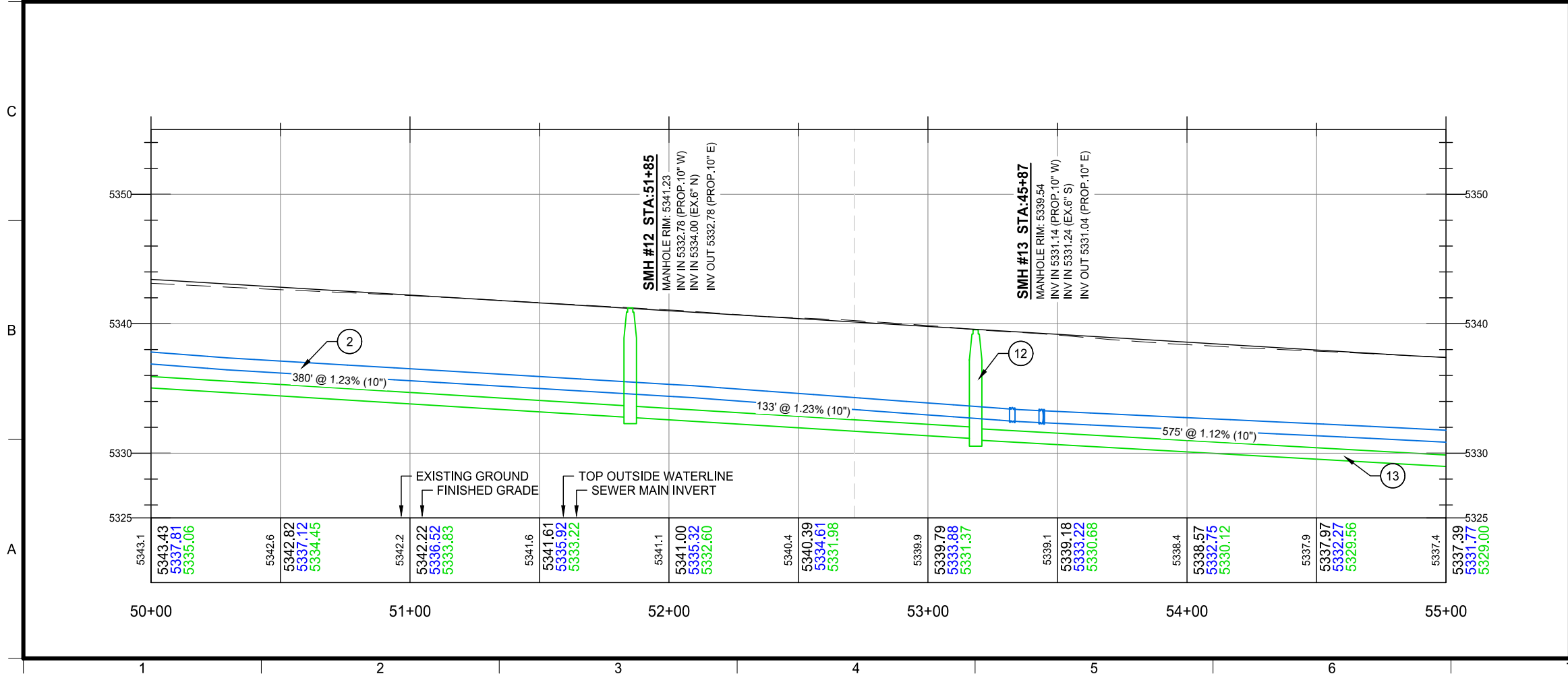
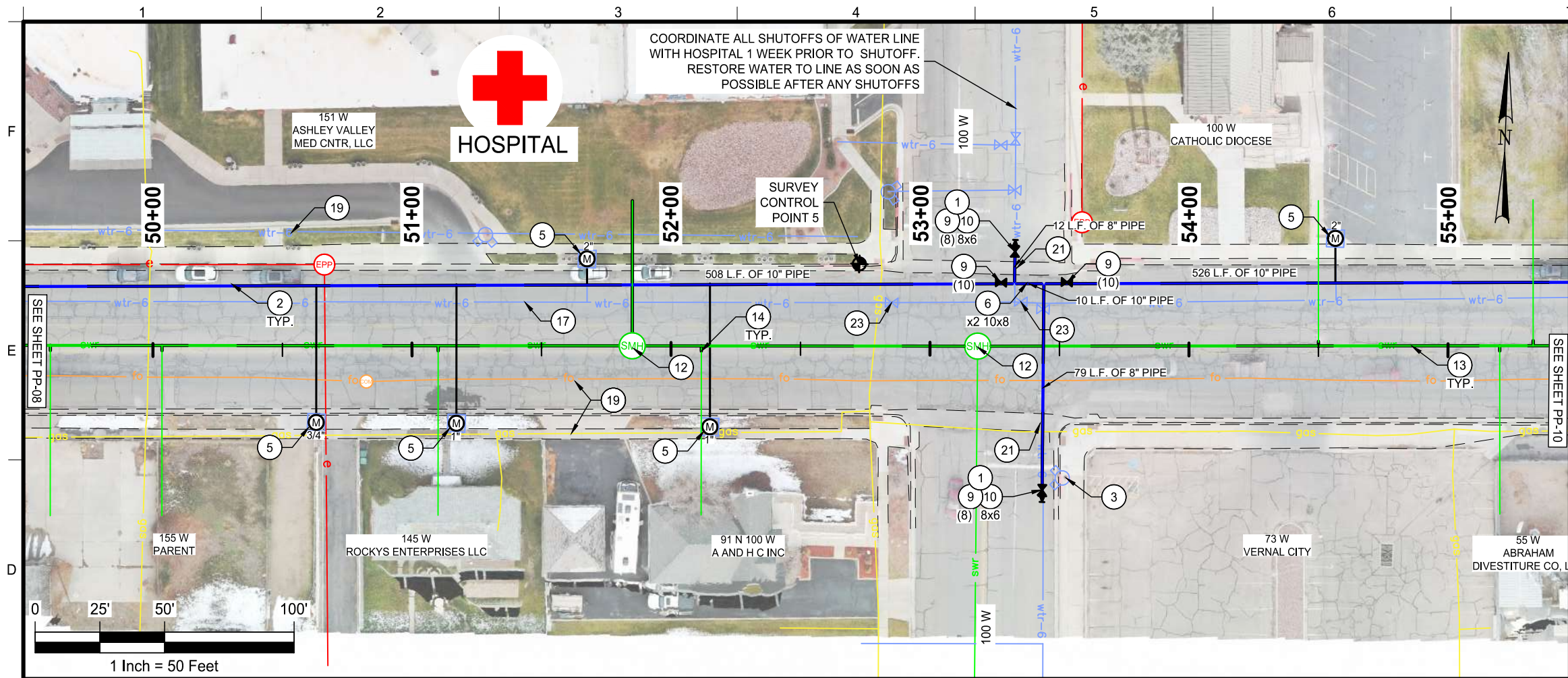
DWG NAME:	H:\2506-057.dwg
SCALE:	1" = 50'
UPDATED:	12/7/2026
PLOTTED:	12/7/2026



- ### KEYNOTES
- 1 TIE-IN TO EXISTING WATER LINE
 - 2 INSTALL C900 DR18 PVC WATERLINE - MATCH SIZE SHOWN - SEE DETAIL
 - 3 REMOVE FIRE HYDRANT
 - 4 INSTALL NEW FIRE HYDRANT
 - 5 REPLACE WATER METER & SERVICE LINE. UTILIZE TRENCHLESS METHODS FOR BOTH SHORT AND LONG SIDE SERVICES. UTILIZE OPEN TRENCH METHODS IF TRENCHLESS METHOD FAILS.
 - 6 INSTALL TEE - MATCH SIZE SHOWN.
 - 7 INSTALL CROSS - MATCH SIZE SHOWN.
 - 8 INSTALL ELBOW FITTING - MATCH SIZE SHOWN.
 - 9 INSTALL GATE VALVE - MATCH SIZE SHOWN.
 - 10 INSTALL REDUCER - MATCH SIZE SHOWN
 - 11 TIE IN TO EXISTING SEWER LINE, SEE DETAIL.
 - 12 INSTALL NEW 48" SEWER MANHOLE, CONNECT NEW AND EXISTING SEWER MAIN TO MANHOLE
 - 13 NEW 10" SDR 35 SEWER MAIN
 - 14 CONNECT SEWER SERVICE LATERAL TO NEW MAIN
 - 15 REMOVE EXISTING MANHOLE
 - 16 ABANDON MANHOLE. SEE DETAIL
 - 17 ABANDON EXISTING UTILITY AND CAP ENDS.
 - 18 SAWCUT, REMOVE & REPLACE CONCRETE WATER WAY
 - 19 PROTECT IN PLACE EXISTING UTILITY. FIELD VERIFY LOCATION AND ELEVATION.
 - 20 SAWCUT, REMOVE AND REPLACE CONCRETE FLATWORK. SEE DETAIL
 - 21 SAWCUT, REMOVE AND REPLACE CONCRETE WATERWAY
 - 22 SAWCUT, REMOVE AND REPLACE CONCRETE CURB AND GUTTER
 - 23 ABANDON EXISTING VALVE. SEE DETAIL.
 - 24 ABANDONED WATERLINE.
 - 25 REMOVE EXISTING SEWER LINE.
 - 26 NEW 8" SDR SEWER MAIN
 - 27 ROTOMILL ROADWAY CUT LINE, PLACE 2" OVERLAY. UTILITIES OUTSIDE OF CUT LINES SHALL BE CLASS A ROAD REPAIR.



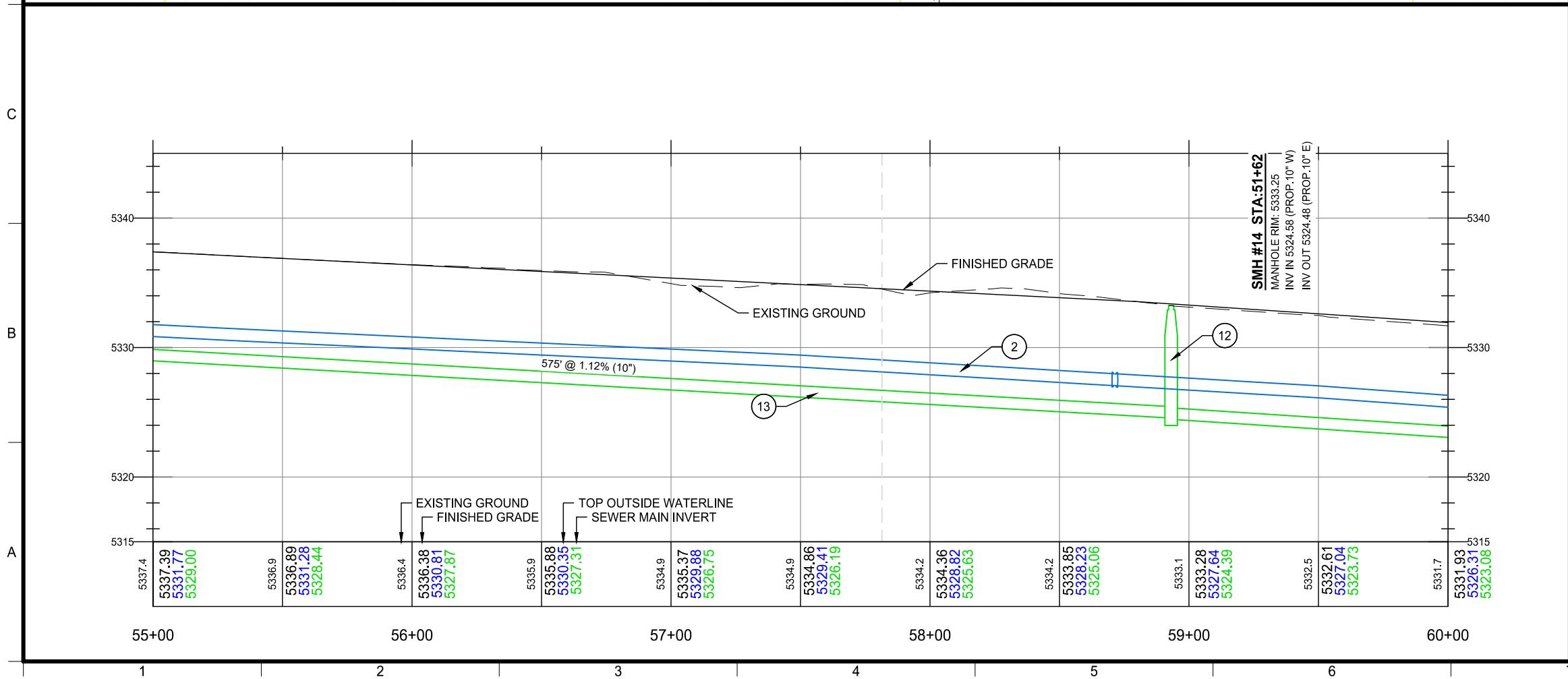
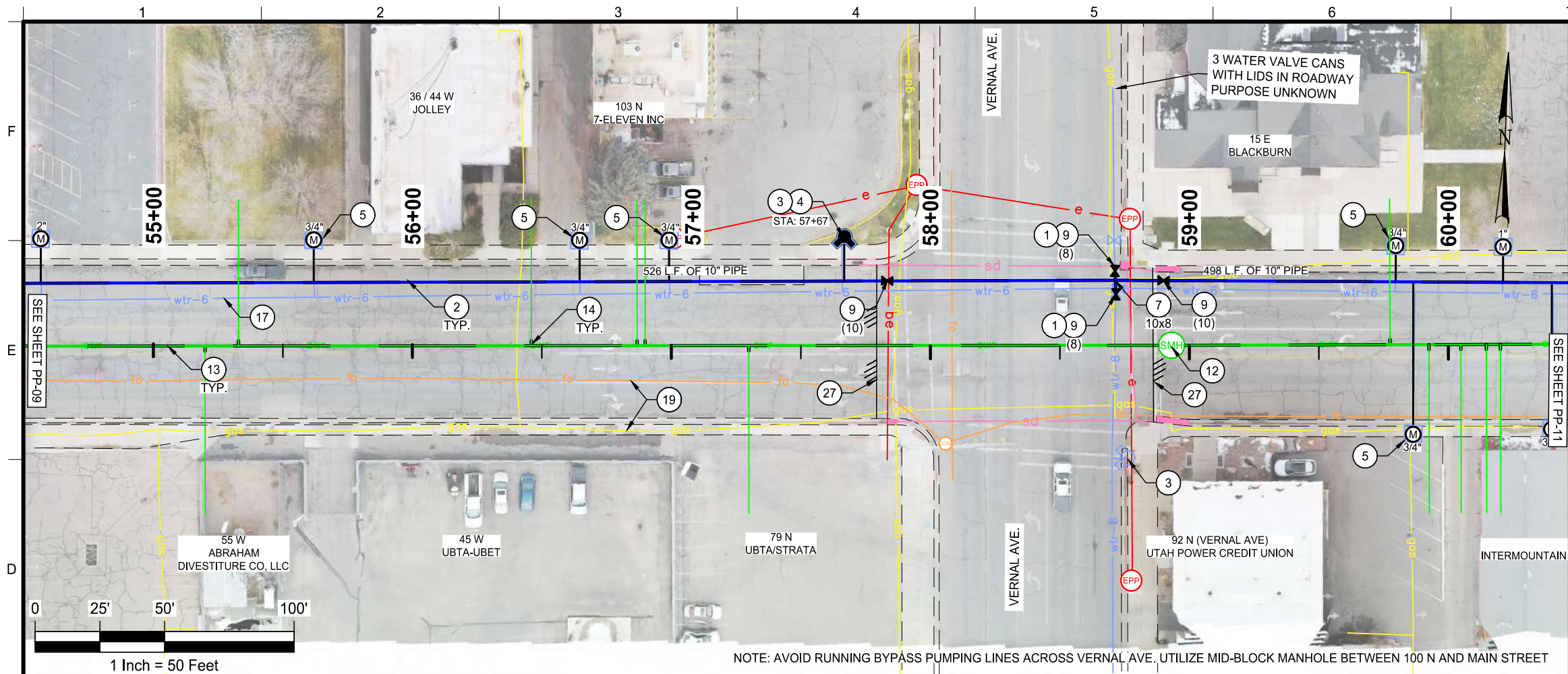
VERNAL CITY		100 NORTH UTILITY RECONSTRUCTION		PLAN & PROFILE		SUBMITTAL: FOR BIDDING ONLY		PROJECT NUMBER: 2506-057	
COUNTY		SHEET NO.		PP-07		DWG NAME: H:\2506-057\dwg\PP_2506-057.dwg		UPDATED: 1/27/2026	
REVISIONS		REMARKS		DATE		NO		1/27/2026	
JONES & DeMille Engineering, Inc.		CIVIL & STRUCTURAL ENGINEERING - SURVEYING		GIS - ENVIRONMENTAL - MATERIALS TESTING		1.800.748.5275		www.jonesanddemaille.com	



- ### KEYNOTES
- 1 TIE-IN TO EXISTING WATER LINE
 - 2 INSTALL C900 DR18 PVC WATERLINE - MATCH SIZE SHOWN - SEE DETAIL
 - 3 REMOVE FIRE HYDRANT
 - 4 INSTALL NEW FIRE HYDRANT
 - 5 REPLACE WATER METER & SERVICE LINE. UTILIZE TRENCHLESS METHODS FOR BOTH SHORT AND LONG SIDE SERVICES. UTILIZE OPEN TRENCH METHODS IF TRENCHLESS METHOD FAILS.
 - 6 INSTALL TEE - MATCH SIZE SHOWN.
 - 7 INSTALL CROSS - MATCH SIZE SHOWN.
 - 8 INSTALL ELBOW FITTING - MATCH SIZE SHOWN.
 - 9 INSTALL GATE VALVE - MATCH SIZE SHOWN.
 - 10 INSTALL REDUCER - MATCH SIZE SHOWN
 - 11 TIE IN TO EXISTING SEWER LINE, SEE DETAIL.
 - 12 INSTALL NEW 48" SEWER MANHOLE, CONNECT NEW AND EXISTING SEWER MAIN TO MANHOLE
 - 13 NEW 10" SDR 35 SEWER MAIN
 - 14 CONNECT SEWER SERVICE LATERAL TO NEW MAIN
 - 15 REMOVE EXISTING MANHOLE
 - 16 ABANDON MANHOLE. SEE DETAIL
 - 17 ABANDON EXISTING UTILITY AND CAP ENDS.
 - 18 SAWCUT, REMOVE & REPLACE CONCRETE WATER WAY
 - 19 PROTECT IN PLACE EXISTING UTILITY. FIELD VERIFY LOCATION AND ELEVATION.
 - 20 SAWCUT, REMOVE AND REPLACE CONCRETE FLATWORK. SEE DETAIL
 - 21 SAWCUT, REMOVE AND REPLACE CONCRETE WATERWAY
 - 22 SAWCUT, REMOVE AND REPLACE CONCRETE CURB AND GUTTER
 - 23 ABANDON EXISTING VALVE. SEE DETAIL.
 - 24 ABANDONED WATERLINE.
 - 25 REMOVE EXISTING SEWER LINE.
 - 26 NEW 8" SDR SEWER MAIN
 - 27 ROTOMILL ROADWAY CUT LINE, PLACE 2" OVERLAY. UTILITIES OUTSIDE OF CUT LINES SHALL BE CLASS A ROAD REPAIR.



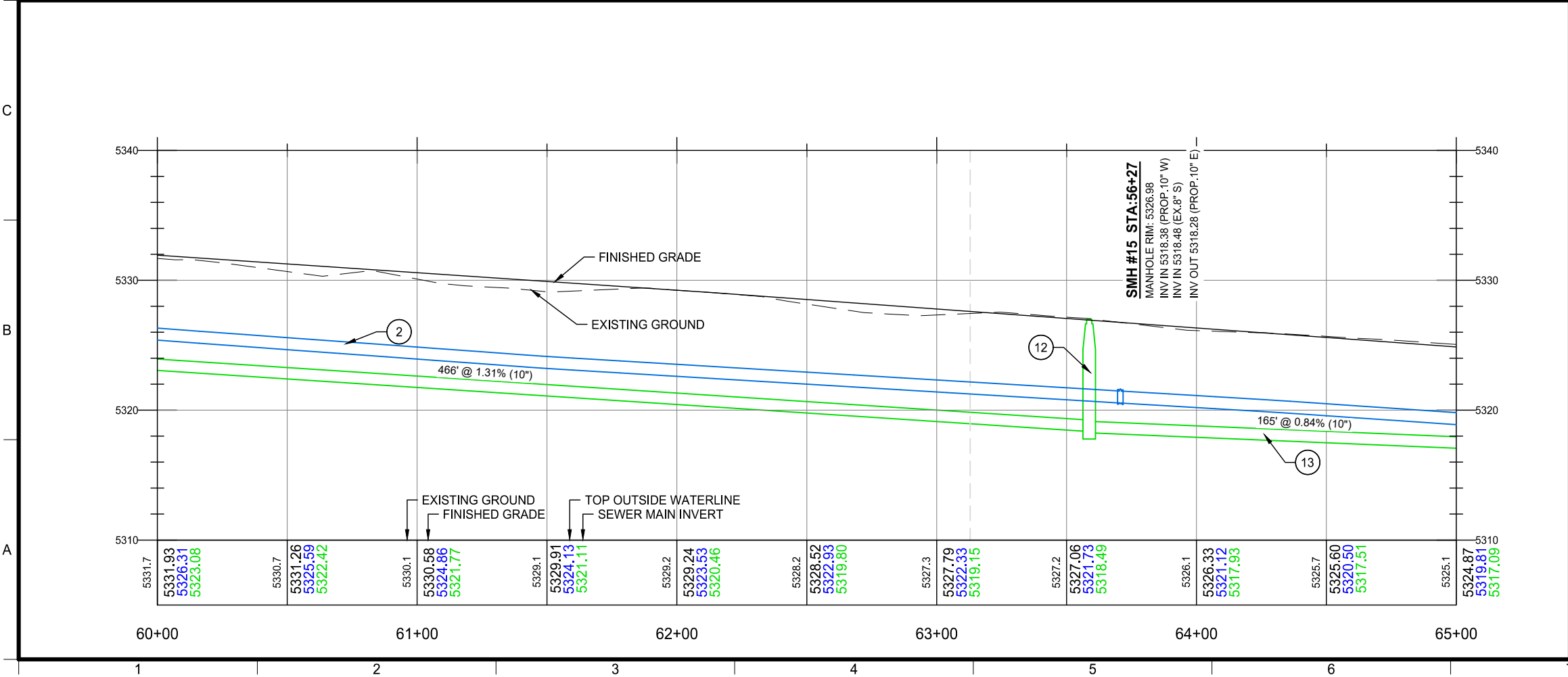
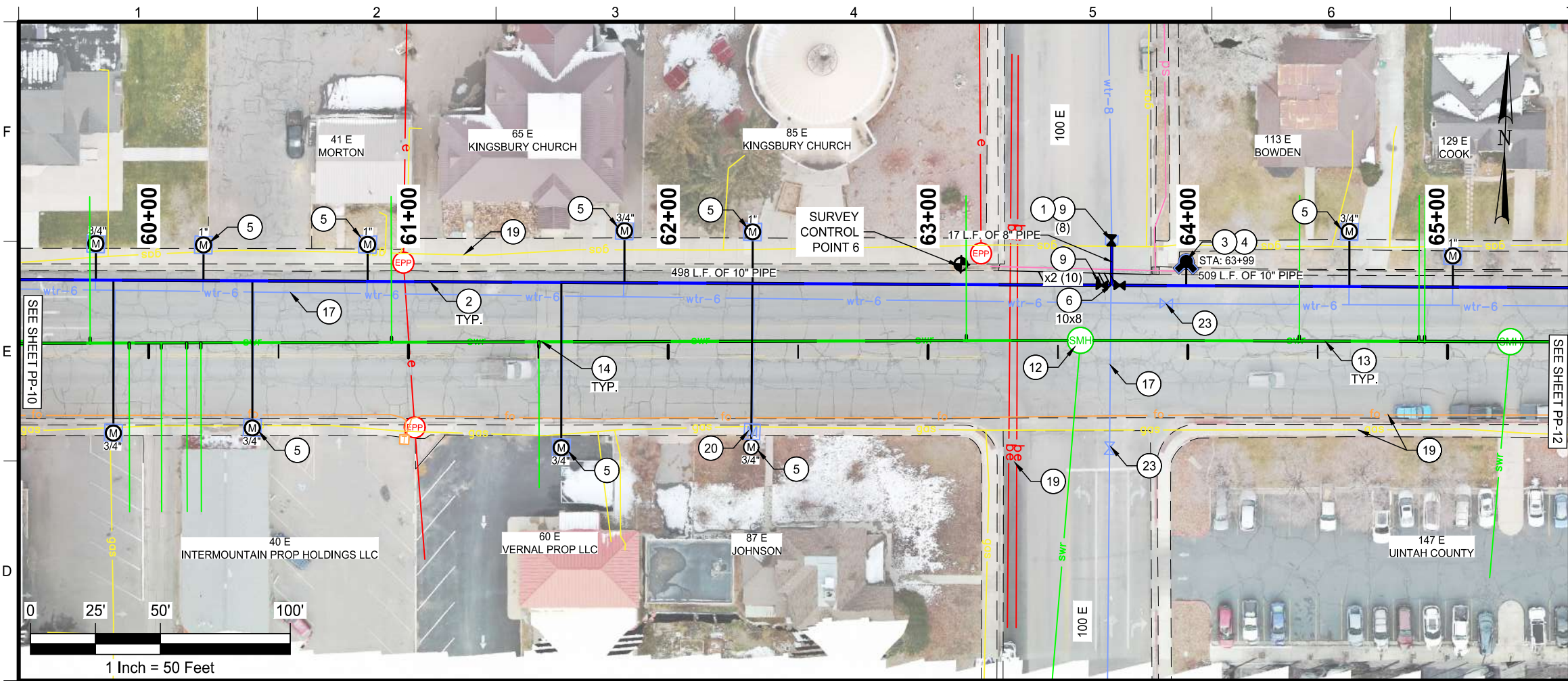
JONES & DeMILLE Engineering, Inc. CIVIL & STRUCTURAL ENGINEERING - SURVEYING GIS - ENVIRONMENTAL - MATERIALS TESTING 1.800.748.5275 www.jonesanddemaille.com	
VERNAL CITY 100 NORTH UTILITY RECONSTRUCTION	
PLAN & PROFILE	
SUBMITTAL: FOR BIDDING ONLY	
PROJECT NUMBER: 2506-057	
SHEET NO. PP-09	
DWG NAME: H:\2506-057\dwg\PP_2506-057.dwg	
REVISIONS	
DATE	
NO	
REMARKS	
UPDATED: 12/7/2026	
PLOTTED: 12/7/2026	



- ### KEYNOTES
- 1 TIE-IN TO EXISTING WATER LINE
 - 2 INSTALL C900 DR18 PVC WATERLINE - MATCH SIZE SHOWN - SEE DETAIL
 - 3 REMOVE FIRE HYDRANT
 - 4 INSTALL NEW FIRE HYDRANT
 - 5 REPLACE WATER METER & SERVICE LINE. UTILIZE TRENCHLESS METHODS FOR BOTH SHORT AND LONG SIDE SERVICES. UTILIZE OPEN TRENCH METHODS IF TRENCHLESS METHOD FAILS.
 - 6 INSTALL TEE - MATCH SIZE SHOWN.
 - 7 INSTALL CROSS - MATCH SIZE SHOWN.
 - 8 INSTALL ELBOW FITTING - MATCH SIZE SHOWN.
 - 9 INSTALL GATE VALVE - MATCH SIZE SHOWN.
 - 10 INSTALL REDUCER - MATCH SIZE SHOWN
 - 11 TIE IN TO EXISTING SEWER LINE, SEE DETAIL.
 - 12 INSTALL NEW 48" SEWER MANHOLE, CONNECT NEW AND EXISTING SEWER MAIN TO MANHOLE
 - 13 NEW 10" SDR 35 SEWER MAIN
 - 14 CONNECT SEWER SERVICE LATERAL TO NEW MAIN
 - 15 REMOVE EXISTING MANHOLE
 - 16 ABANDON MANHOLE. SEE DETAIL
 - 17 ABANDON EXISTING UTILITY AND CAP ENDS.
 - 18 SAWCUT, REMOVE & REPLACE CONCRETE WATER WAY
 - 19 PROTECT IN PLACE EXISTING UTILITY. FIELD VERIFY LOCATION AND ELEVATION.
 - 20 SAWCUT, REMOVE AND REPLACE CONCRETE FLATWORK. SEE DETAIL
 - 21 SAWCUT, REMOVE AND REPLACE CONCRETE WATERWAY
 - 22 SAWCUT, REMOVE AND REPLACE CONCRETE CURB AND GUTTER
 - 23 ABANDON EXISTING VALVE. SEE DETAIL.
 - 24 ABANDONED WATERLINE.
 - 25 REMOVE EXISTING SEWER LINE.
 - 26 NEW 8" SDR SEWER MAIN
 - 27 ROTOMILL ROADWAY CUT LINE, PLACE 2" OVERLAY. UTILITIES OUTSIDE OF CUT LINES SHALL BE CLASS A ROAD REPAIR.



JONES & DeMille Engineering, Inc. CIVIL & STRUCTURAL ENGINEERING - SURVEYING GIS - ENVIRONMENTAL - MATERIALS TESTING 1.800.748.5275 www.jonesanddemaille.com	
VERNAL CITY 100 NORTH UTILITY RECONSTRUCTION PLAN & PROFILE	
SUBMITTAL: FOR BIDDING ONLY PROJECT NUMBER: 2506-057	
SHEET NO. PP-10	
DWG NAME: H:\2506-057\dwg\PP_2506-057.dwg	
SCALE: 1" = 50'	
REVISIONS	
REMARKS	
DATE	
NO	
UPDATED: 12/7/2026	
PLOTTED: 12/7/2026	



KEYNOTES

- TIE-IN TO EXISTING WATER LINE
- INSTALL C900 DR18 PVC WATERLINE - MATCH SIZE SHOWN - SEE DETAIL
- REMOVE FIRE HYDRANT
- INSTALL NEW FIRE HYDRANT
- REPLACE WATER METER & SERVICE LINE. UTILIZE TRENCHLESS METHODS FOR BOTH SHORT AND LONG SIDE SERVICES. UTILIZE OPEN TRENCH METHODS IF TRENCHLESS METHOD FAILS.
- INSTALL TEE - MATCH SIZE SHOWN.
- INSTALL CROSS - MATCH SIZE SHOWN.
- INSTALL ELBOW FITTING - MATCH SIZE SHOWN.
- INSTALL GATE VALVE - MATCH SIZE SHOWN.
- INSTALL REDUCER - MATCH SIZE SHOWN
- TIE IN TO EXISTING SEWER LINE, SEE DETAIL.
- INSTALL NEW 48" SEWER MANHOLE, CONNECT NEW AND EXISTING SEWER MAIN TO MANHOLE
- NEW 10" SDR 35 SEWER MAIN
- CONNECT SEWER SERVICE LATERAL TO NEW MAIN
- REMOVE EXISTING MANHOLE
- ABANDON MANHOLE. SEE DETAIL
- ABANDON EXISTING UTILITY AND CAP ENDS.
- SAWCUT, REMOVE & REPLACE CONCRETE WATER WAY
- PROTECT IN PLACE EXISTING UTILITY. FIELD VERIFY LOCATION AND ELEVATION.
- SAWCUT, REMOVE AND REPLACE CONCRETE FLATWORK. SEE DETAIL
- SAWCUT, REMOVE AND REPLACE CONCRETE WATERWAY
- SAWCUT, REMOVE AND REPLACE CONCRETE CURB AND GUTTER
- ABANDON EXISTING VALVE. SEE DETAIL.
- ABANDONED WATERLINE.
- REMOVE EXISTING SEWER LINE.
- NEW 8" SDR SEWER MAIN
- ROTO-MILL ROADWAY CUT LINE, PLACE 2" OVERLAY. UTILITIES OUTSIDE OF CUT LINES SHALL BE CLASS A ROAD REPAIR.

12/7/2026

UPDATED:

12/27/2026

12/7/2026

PLOTTED:

12/27/2026

REVISIONS

REMARKS

DATE

NO

DWG NAME:

H:\2506-057.dwg

SCALE:

1" = 50'

Jones & DeMille Engineering, Inc.

CIVIL & STRUCTURAL ENGINEERING - SURVEYING

GIS - ENVIRONMENTAL - MATERIALS TESTING

1.800.748.5275 www.jonesanddemaille.com

VERNAL CITY

100 NORTH UTILITY RECONSTRUCTION

PLAN & PROFILE

SUBMITTAL: FOR BIDDING ONLY

PROJECT NUMBER: 2506-057

UINTAH COUNTY

SHEET NO. PP-11

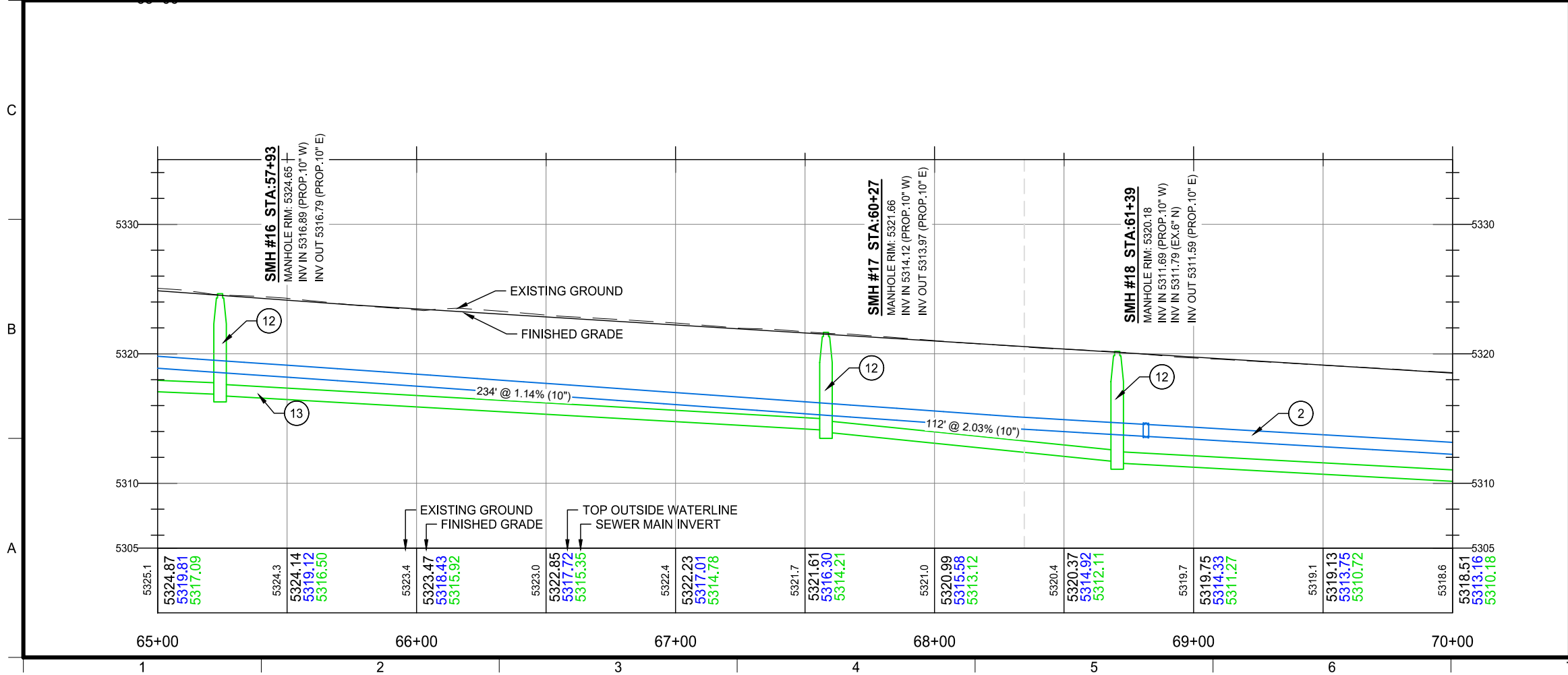
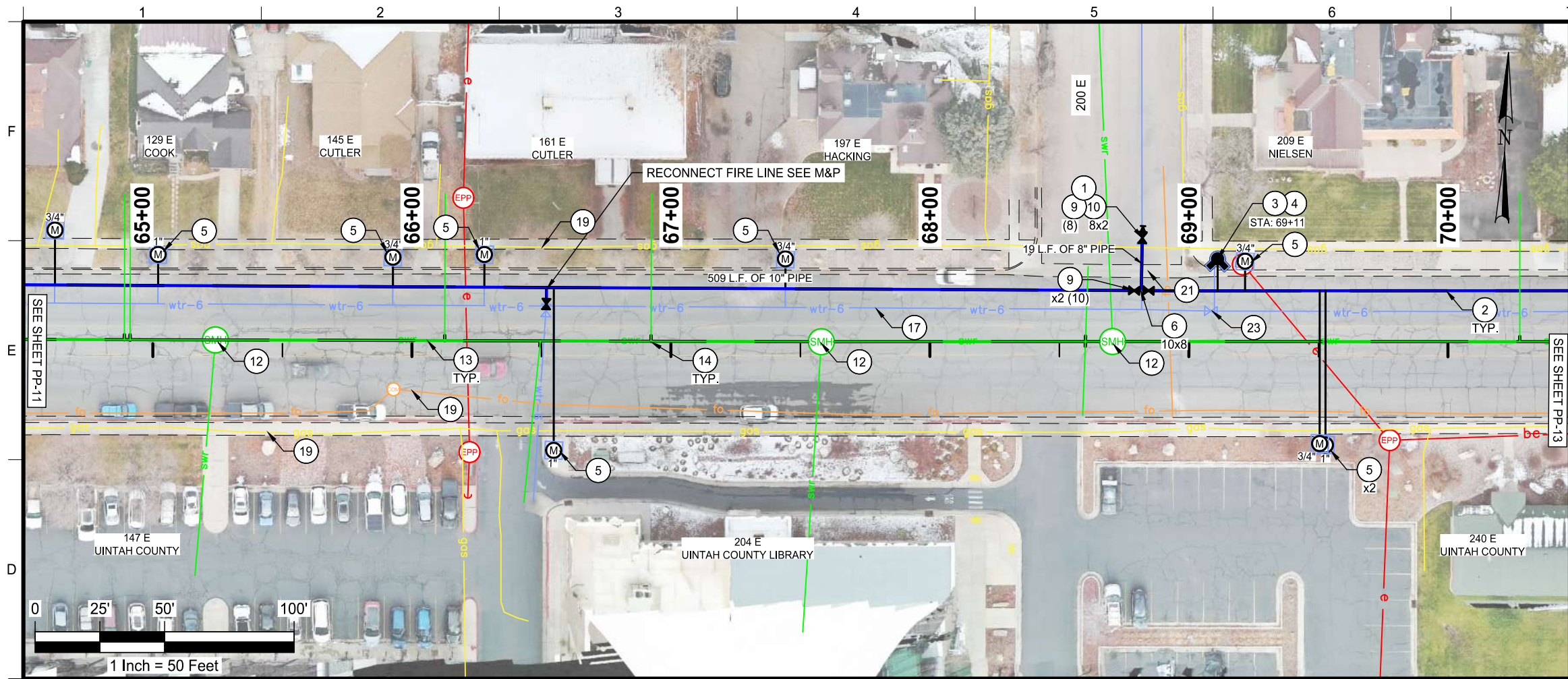
BlueStakes of UTAH 811

BlueStakes.org

1-800-662-4111

CALL BEFORE YOU DIG.

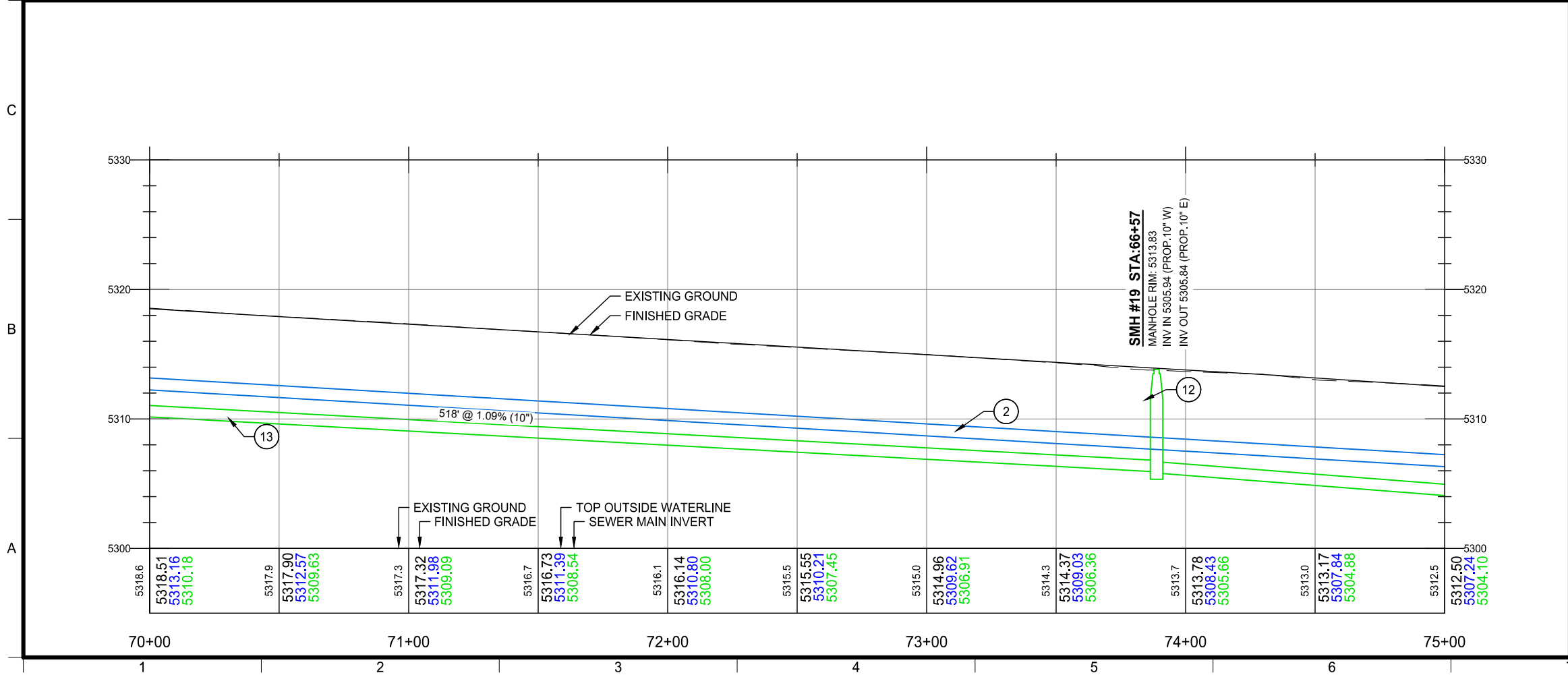
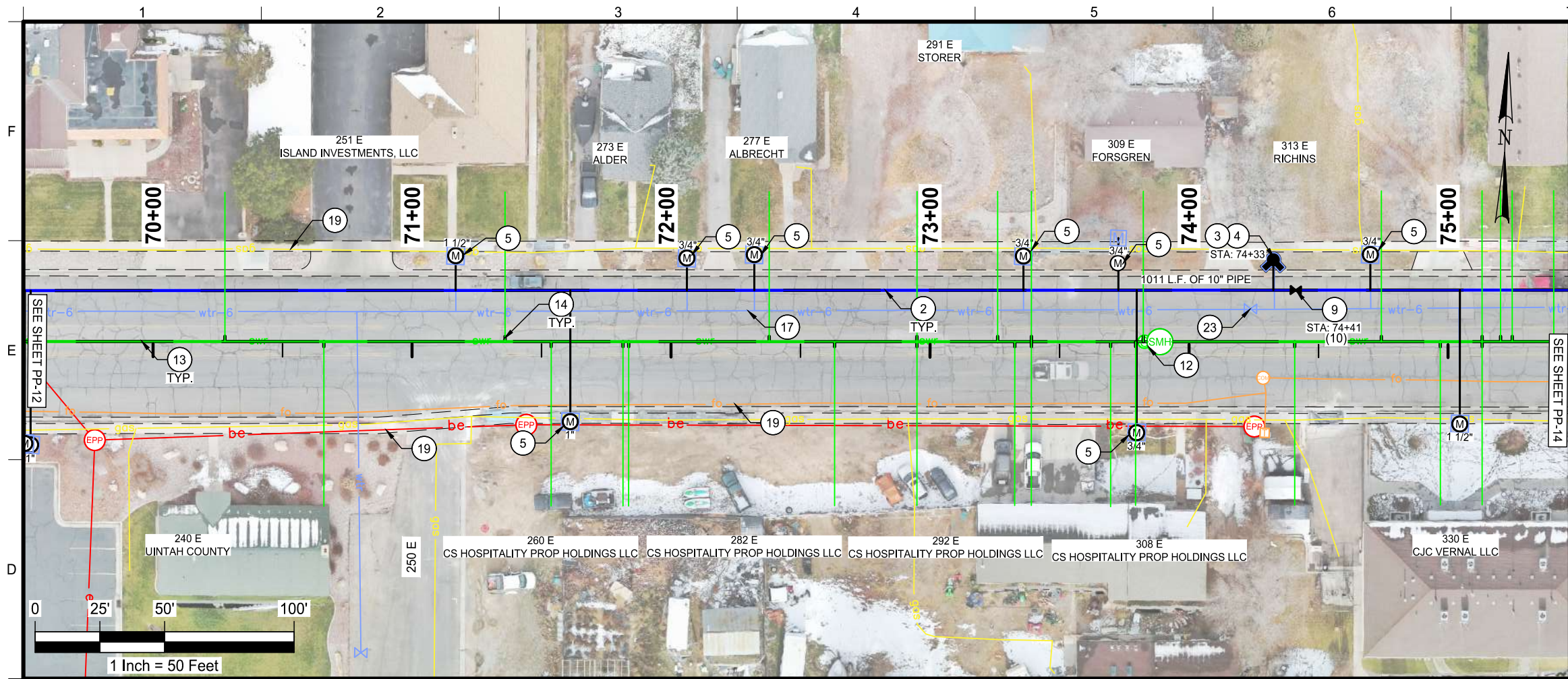
IT'S FREE AND IT'S THE LAW.



- ### KEYNOTES
- 1 TIE-IN TO EXISTING WATER LINE
 - 2 INSTALL C900 DR18 PVC WATERLINE - MATCH SIZE SHOWN - SEE DETAIL
 - 3 REMOVE FIRE HYDRANT
 - 4 INSTALL NEW FIRE HYDRANT
 - 5 REPLACE WATER METER & SERVICE LINE. UTILIZE TRENCHLESS METHODS FOR BOTH SHORT AND LONG SIDE SERVICES. UTILIZE OPEN TRENCH METHODS IF TRENCHLESS METHOD FAILS.
 - 6 INSTALL TEE - MATCH SIZE SHOWN.
 - 7 INSTALL CROSS - MATCH SIZE SHOWN.
 - 8 INSTALL ELBOW FITTING - MATCH SIZE SHOWN.
 - 9 INSTALL GATE VALVE - MATCH SIZE SHOWN.
 - 10 INSTALL REDUCER - MATCH SIZE SHOWN
 - 11 TIE IN TO EXISTING SEWER LINE, SEE DETAIL.
 - 12 INSTALL NEW 48" SEWER MANHOLE, CONNECT NEW AND EXISTING SEWER MAIN TO MANHOLE
 - 13 NEW 10" SDR 35 SEWER MAIN
 - 14 CONNECT SEWER SERVICE LATERAL TO NEW MAIN
 - 15 REMOVE EXISTING MANHOLE
 - 16 ABANDON MANHOLE. SEE DETAIL
 - 17 ABANDON EXISTING UTILITY AND CAP ENDS.
 - 18 SAWCUT, REMOVE & REPLACE CONCRETE WATER WAY
 - 19 PROTECT IN PLACE EXISTING UTILITY. FIELD VERIFY LOCATION AND ELEVATION.
 - 20 SAWCUT, REMOVE AND REPLACE CONCRETE FLATWORK. SEE DETAIL
 - 21 SAWCUT, REMOVE AND REPLACE CONCRETE WATERWAY
 - 22 SAWCUT, REMOVE AND REPLACE CONCRETE CURB AND GUTTER
 - 23 ABANDON EXISTING VALVE. SEE DETAIL.
 - 24 ABANDONED WATERLINE.
 - 25 REMOVE EXISTING SEWER LINE.
 - 26 NEW 8" SDR SEWER MAIN
 - 27 ROTOMILL ROADWAY CUT LINE, PLACE 2" OVERLAY. UTILITIES OUTSIDE OF CUT LINES SHALL BE CLASS A ROAD REPAIR.



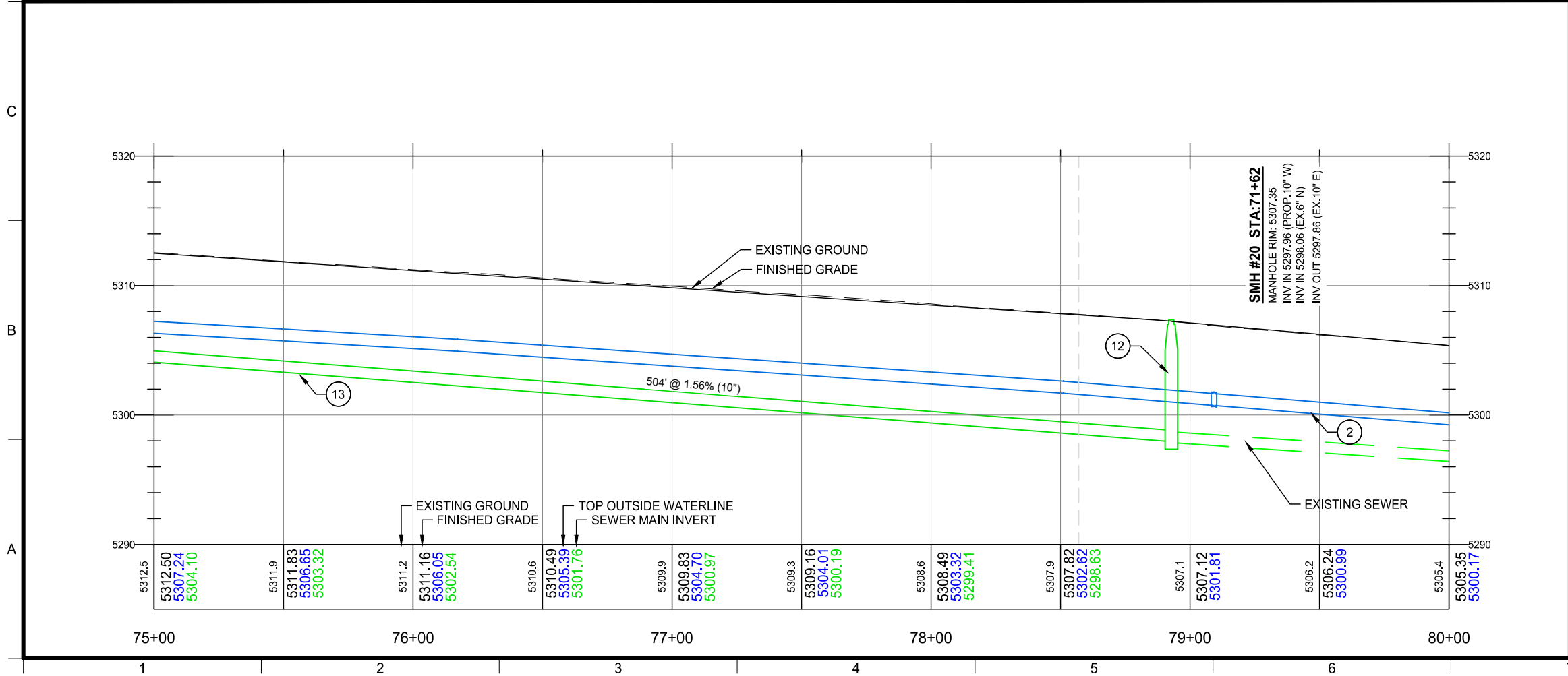
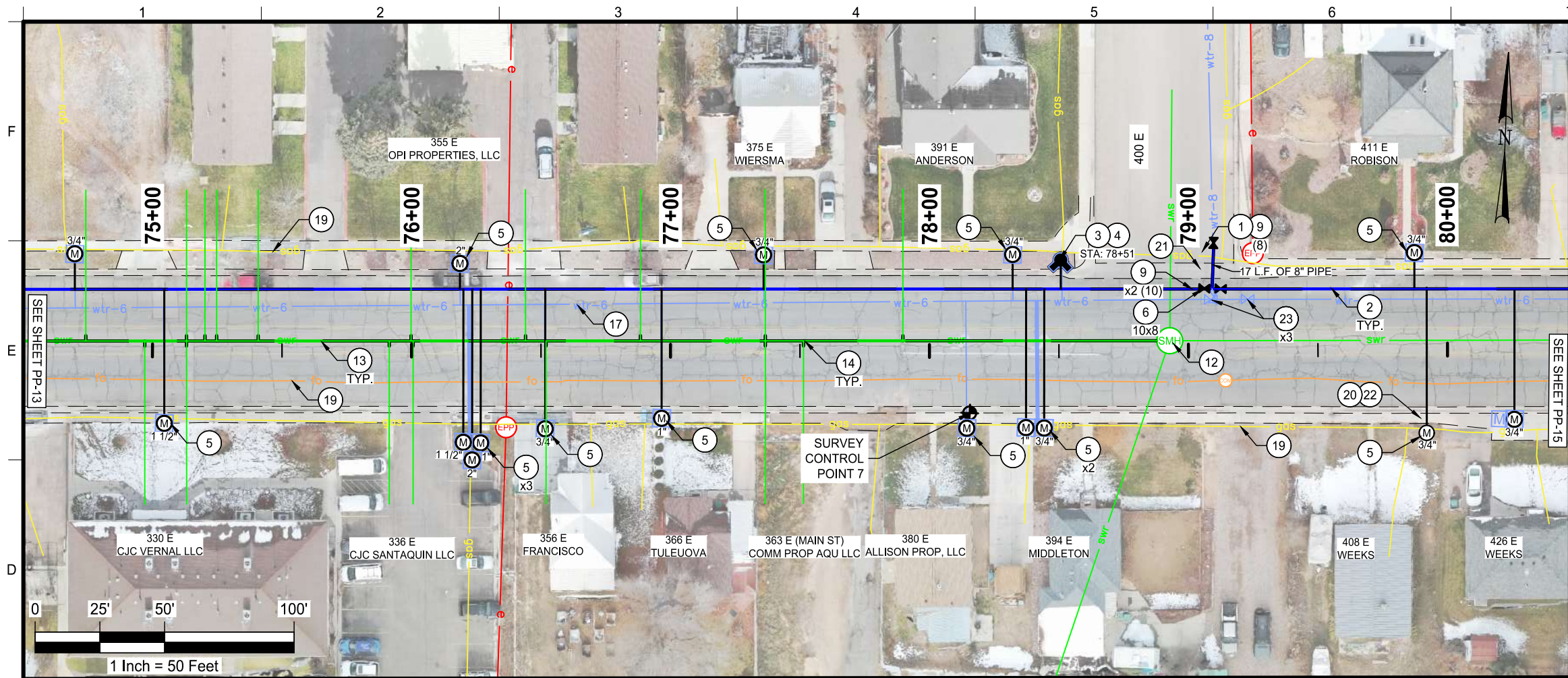
JONES & DEMILLE ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERING - SURVEYING GIS - ENVIRONMENTAL - MATERIALS TESTING 1.800.748.5275 www.jonesanddemic.com	
VERNAL CITY	
100 NORTH UTILITY RECONSTRUCTION	
PLAN & PROFILE	
SUBMITTAL: FOR BIDDING ONLY	PROJECT NUMBER: 2506-057
SHEET NO. PP-12	
DWG NAME: H:\2506-057\dwg\PP_2506-057.dwg	
REVISIONS	
NO	DATE
REMARKS	
UPDATED: 1/27/2026	PLOTTED: 1/27/2026



- KEYNOTES**
- 1 TIE-IN TO EXISTING WATER LINE
 - 2 INSTALL C900 DR18 PVC WATERLINE - MATCH SIZE SHOWN - SEE DETAIL
 - 3 REMOVE FIRE HYDRANT
 - 4 INSTALL NEW FIRE HYDRANT
 - 5 REPLACE WATER METER & SERVICE LINE. UTILIZE TRENCHLESS METHODS FOR BOTH SHORT AND LONG SIDE SERVICES. UTILIZE OPEN TRENCH METHODS IF TRENCHLESS METHOD FAILS.
 - 6 INSTALL TEE - MATCH SIZE SHOWN.
 - 7 INSTALL CROSS - MATCH SIZE SHOWN.
 - 8 INSTALL ELBOW FITTING - MATCH SIZE SHOWN.
 - 9 INSTALL GATE VALVE - MATCH SIZE SHOWN.
 - 10 INSTALL REDUCER - MATCH SIZE SHOWN
 - 11 TIE IN TO EXISTING SEWER LINE, SEE DETAIL.
 - 12 INSTALL NEW 48" SEWER MANHOLE, CONNECT NEW AND EXISTING SEWER MAIN TO MANHOLE
 - 13 NEW 10" SDR 35 SEWER MAIN
 - 14 CONNECT SEWER SERVICE LATERAL TO NEW MAIN
 - 15 REMOVE EXISTING MANHOLE
 - 16 ABANDON MANHOLE. SEE DETAIL
 - 17 ABANDON EXISTING UTILITY AND CAP ENDS.
 - 18 SAWCUT, REMOVE & REPLACE CONCRETE WATER WAY
 - 19 PROTECT IN PLACE EXISTING UTILITY. FIELD VERIFY LOCATION AND ELEVATION.
 - 20 SAWCUT, REMOVE AND REPLACE CONCRETE FLATWORK. SEE DETAIL
 - 21 SAWCUT, REMOVE AND REPLACE CONCRETE WATERWAY
 - 22 SAWCUT, REMOVE AND REPLACE CONCRETE CURB AND GUTTER
 - 23 ABANDON EXISTING VALVE. SEE DETAIL.
 - 24 ABANDONED WATERLINE.
 - 25 REMOVE EXISTING SEWER LINE.
 - 26 NEW 8" SDR SEWER MAIN
 - 27 ROTOMILL ROADWAY CUT LINE, PLACE 2" OVERLAY. UTILITIES OUTSIDE OF CUT LINES SHALL BE CLASS A ROAD REPAIR.



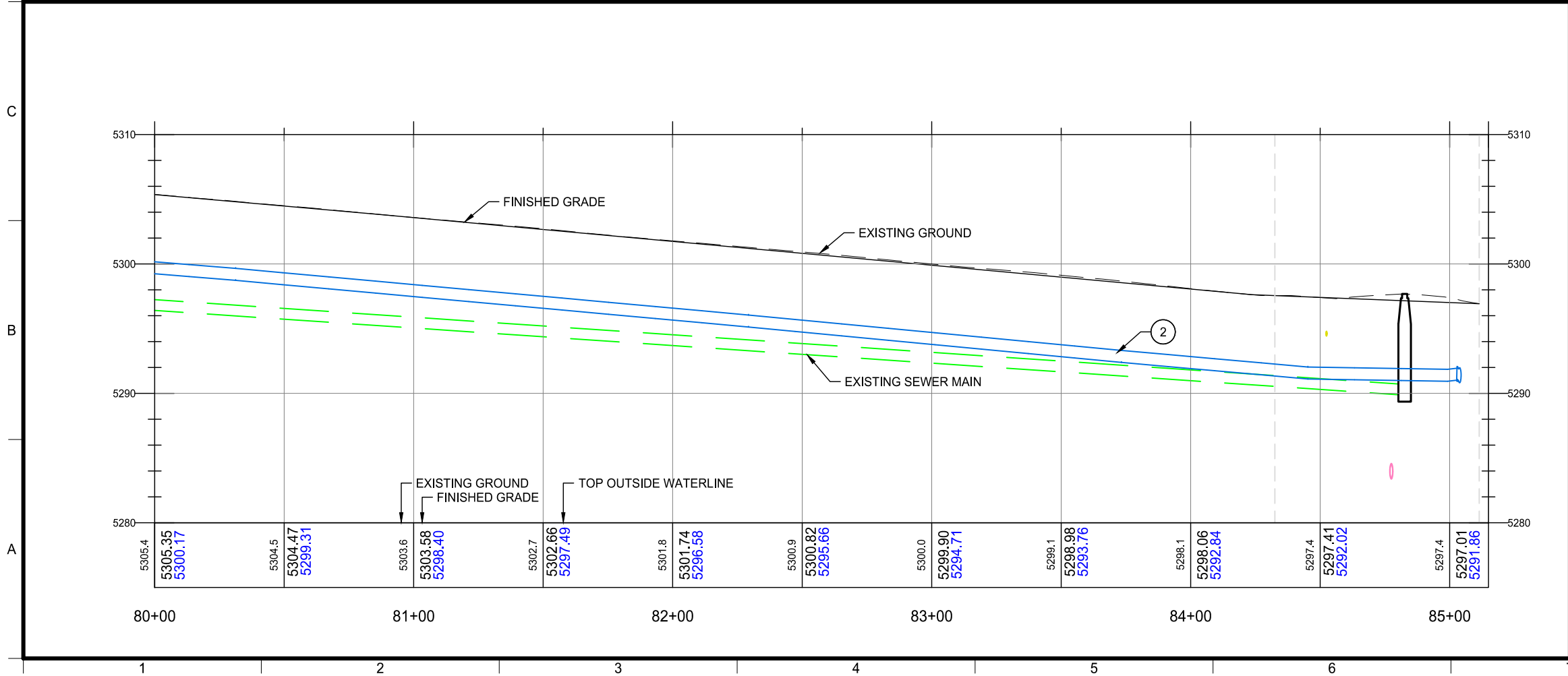
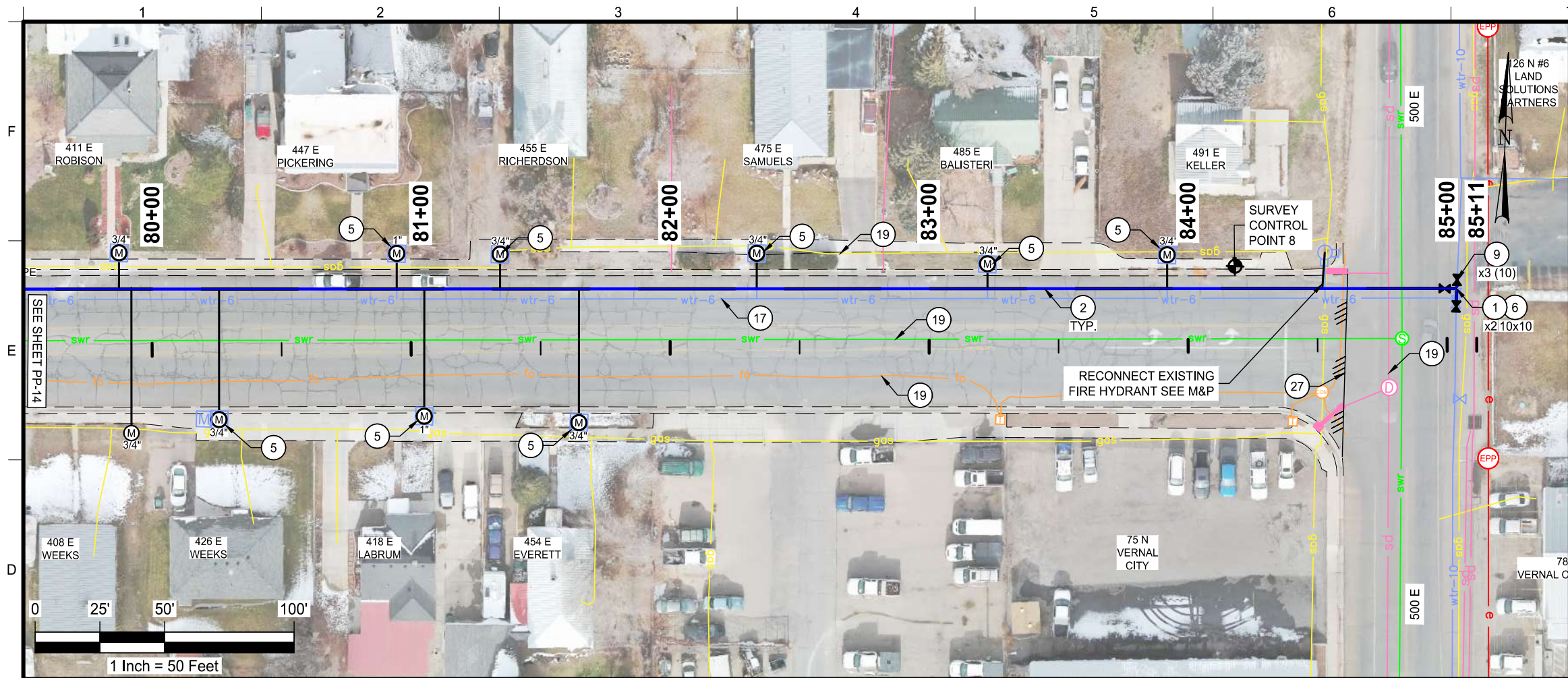
JONES & DeMille Engineering, Inc. CIVIL & STRUCTURAL ENGINEERING - SURVEYING GIS - ENVIRONMENTAL - MATERIALS TESTING 1.800.748.5275 www.jonesanddemaille.com	
VERNAL CITY	
100 NORTH UTILITY RECONSTRUCTION	
PLAN & PROFILE	
SUBMITTAL: FOR BIDDING ONLY	
PROJECT NUMBER: 2506-057	
SHEET NO. PP-13	
DWG NAME: H:\2506-057\dwg\PP_2506-057.dwg	
REVISIONS	
DATE	
NO	
REMARKS	
UPDATED: 1/27/2026	
PLOTTED: 1/27/2026	



- KEYNOTES**
- 1 TIE-IN TO EXISTING WATER LINE
 - 2 INSTALL C900 DR18 PVC WATERLINE - MATCH SIZE SHOWN - SEE DETAIL
 - 3 REMOVE FIRE HYDRANT
 - 4 INSTALL NEW FIRE HYDRANT
 - 5 REPLACE WATER METER & SERVICE LINE. UTILIZE TRENCHLESS METHODS FOR BOTH SHORT AND LONG SIDE SERVICES. UTILIZE OPEN TRENCH METHODS IF TRENCHLESS METHOD FAILS.
 - 6 INSTALL TEE - MATCH SIZE SHOWN.
 - 7 INSTALL CROSS - MATCH SIZE SHOWN.
 - 8 INSTALL ELBOW FITTING - MATCH SIZE SHOWN.
 - 9 INSTALL GATE VALVE - MATCH SIZE SHOWN.
 - 10 INSTALL REDUCER - MATCH SIZE SHOWN
 - 11 TIE IN TO EXISTING SEWER LINE, SEE DETAIL.
 - 12 INSTALL NEW 48" SEWER MANHOLE, CONNECT NEW AND EXISTING SEWER MAIN TO MANHOLE
 - 13 NEW 10" SDR 35 SEWER MAIN
 - 14 CONNECT SEWER SERVICE LATERAL TO NEW MAIN
 - 15 REMOVE EXISTING MANHOLE
 - 16 ABANDON MANHOLE. SEE DETAIL
 - 17 ABANDON EXISTING UTILITY AND CAP ENDS.
 - 18 SAWCUT, REMOVE & REPLACE CONCRETE WATER WAY
 - 19 PROTECT IN PLACE EXISTING UTILITY. FIELD VERIFY LOCATION AND ELEVATION.
 - 20 SAWCUT, REMOVE AND REPLACE CONCRETE FLATWORK. SEE DETAIL
 - 21 SAWCUT, REMOVE AND REPLACE CONCRETE WATERWAY
 - 22 SAWCUT, REMOVE AND REPLACE CONCRETE CURB AND GUTTER
 - 23 ABANDON EXISTING VALVE. SEE DETAIL.
 - 24 ABANDONED WATERLINE.
 - 25 REMOVE EXISTING SEWER LINE.
 - 26 NEW 8" SDR SEWER MAIN
 - 27 ROTOMILL ROADWAY CUT LINE, PLACE 2" OVERLAY. UTILITIES OUTSIDE OF CUT LINES SHALL BE CLASS A ROAD REPAIR.



JONES & DeMille Engineering, Inc. CIVIL & STRUCTURAL ENGINEERING - SURVEYING GIS - ENVIRONMENTAL - MATERIALS TESTING 1.800.748.5275 www.jonesandmille.com	
VERNAL CITY 100 NORTH UTILITY RECONSTRUCTION	
PLAN & PROFILE	
SUBMITTAL: FOR BIDDING ONLY PROJECT NUMBER: 2506-057	
SHEET NO. PP-14	
REVISIONS	
NO.	DATE
DWG NAME: H:\2506-057\dwg\PP_2506-057.dwg	
UPDATED: 1/27/2026	PLOTTED: 1/27/2026

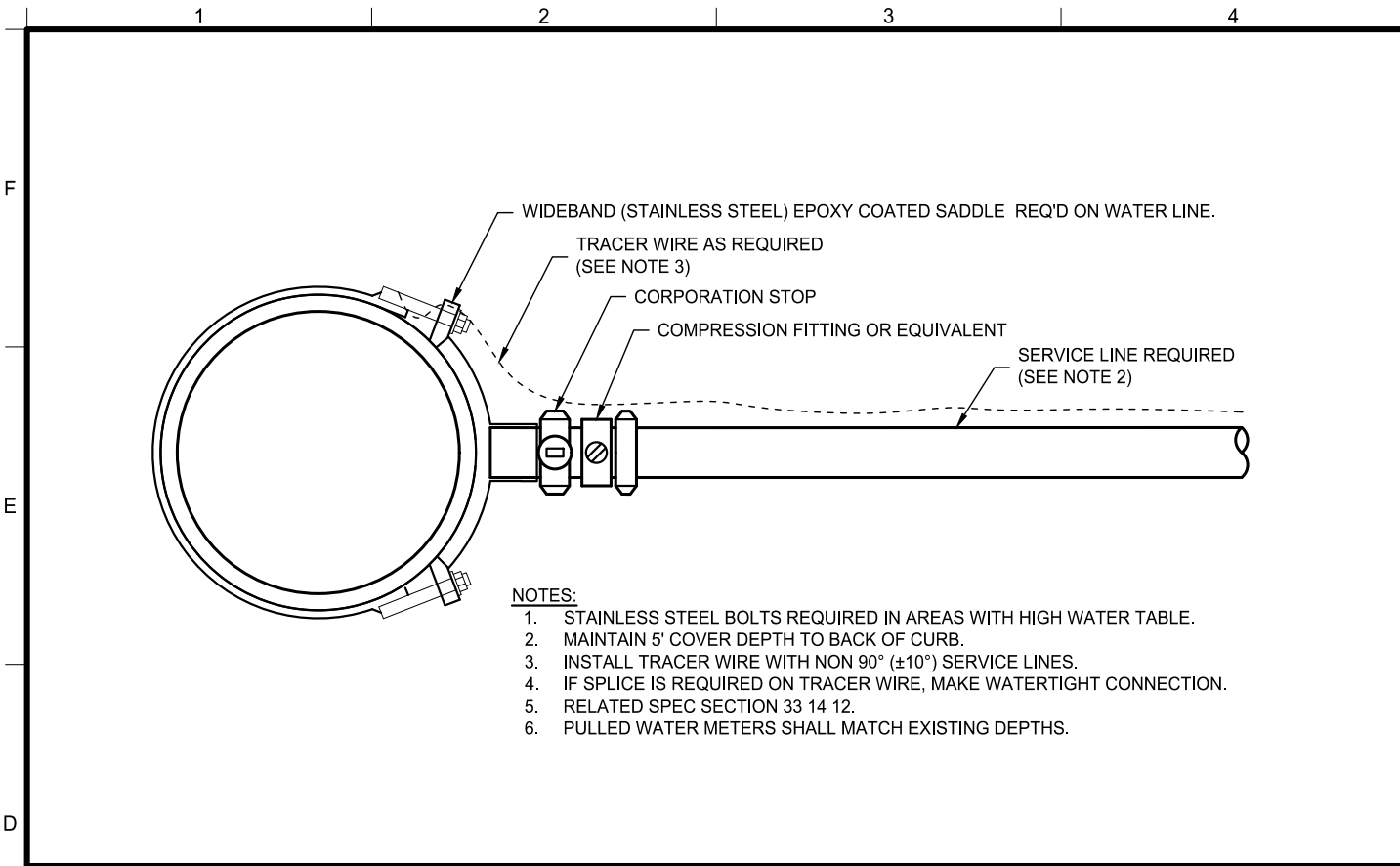


- KEYNOTES**
- 1 TIE-IN TO EXISTING WATER LINE
 - 2 INSTALL C900 DR18 PVC WATERLINE - MATCH SIZE SHOWN - SEE DETAIL
 - 3 REMOVE FIRE HYDRANT
 - 4 INSTALL NEW FIRE HYDRANT
 - 5 REPLACE WATER METER & SERVICE LINE. UTILIZE TRENCHLESS METHODS FOR BOTH SHORT AND LONG SIDE SERVICES. UTILIZE OPEN TRENCH METHODS IF TRENCHLESS METHOD FAILS.
 - 6 INSTALL TEE - MATCH SIZE SHOWN.
 - 7 INSTALL CROSS - MATCH SIZE SHOWN.
 - 8 INSTALL ELBOW FITTING - MATCH SIZE SHOWN.
 - 9 INSTALL GATE VALVE - MATCH SIZE SHOWN.
 - 10 INSTALL REDUCER - MATCH SIZE SHOWN
 - 11 TIE IN TO EXISTING SEWER LINE, SEE DETAIL.
 - 12 INSTALL NEW 48" SEWER MANHOLE, CONNECT NEW AND EXISTING SEWER MAIN TO MANHOLE
 - 13 NEW 10" SDR 35 SEWER MAIN
 - 14 CONNECT SEWER SERVICE LATERAL TO NEW MAIN
 - 15 REMOVE EXISTING MANHOLE
 - 16 ABANDON MANHOLE. SEE DETAIL
 - 17 ABANDON EXISTING UTILITY AND CAP ENDS.
 - 18 SAWCUT, REMOVE & REPLACE CONCRETE WATER WAY
 - 19 PROTECT IN PLACE EXISTING UTILITY. FIELD VERIFY LOCATION AND ELEVATION.
 - 20 SAWCUT, REMOVE AND REPLACE CONCRETE FLATWORK. SEE DETAIL
 - 21 SAWCUT, REMOVE AND REPLACE CONCRETE WATERWAY
 - 22 SAWCUT, REMOVE AND REPLACE CONCRETE CURB AND GUTTER
 - 23 ABANDON EXISTING VALVE. SEE DETAIL.
 - 24 ABANDONED WATERLINE.
 - 25 REMOVE EXISTING SEWER LINE.
 - 26 NEW 8" SDR SEWER MAIN
 - 27 ROTOMILL ROADWAY CUT LINE, PLACE 2" OVERLAY. UTILITIES OUTSIDE OF CUT LINES SHALL BE CLASS A ROAD REPAIR.

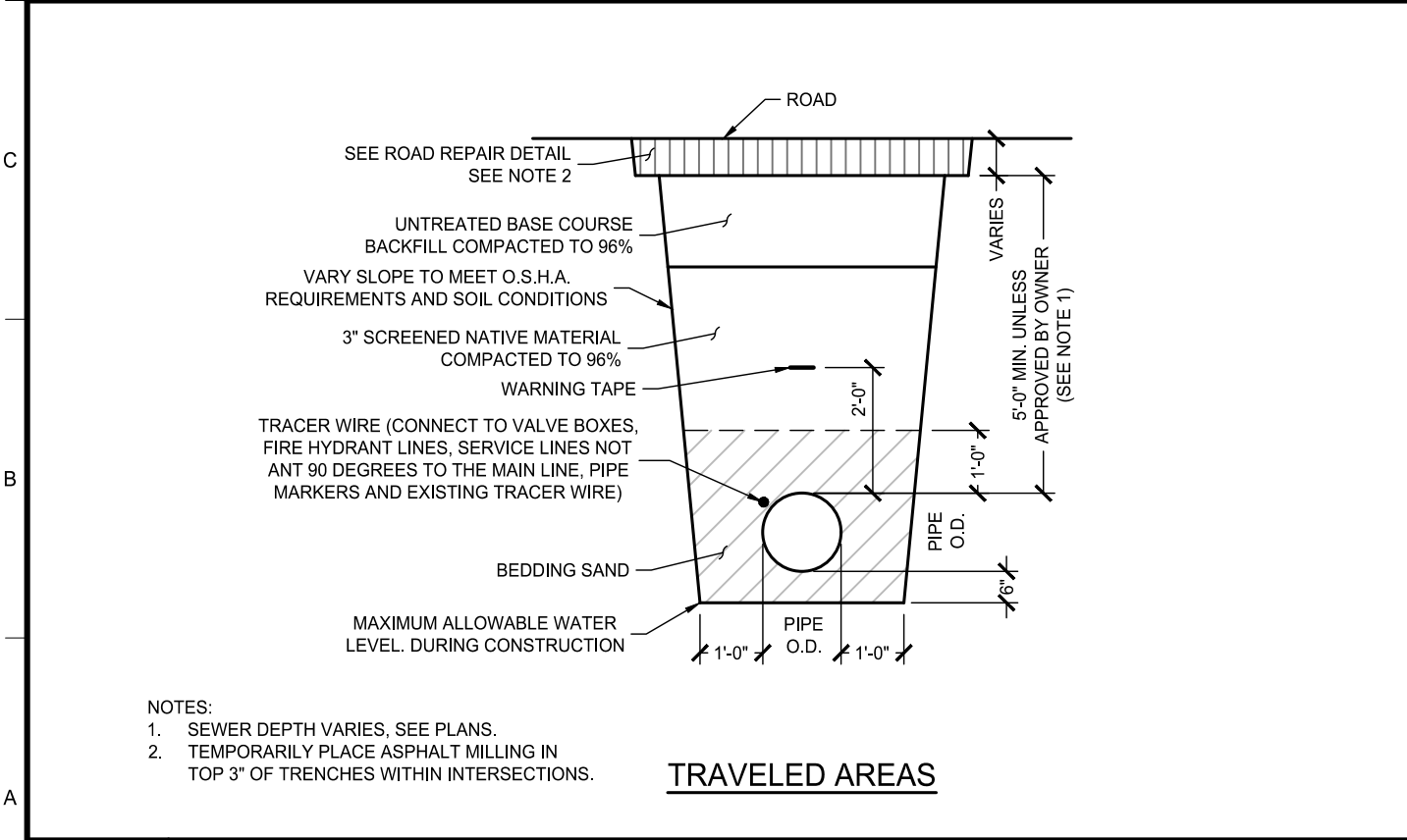
Jones & DeMille Engineering, Inc.
CIVIL & STRUCTURAL ENGINEERING - SURVEYING
GIS - ENVIRONMENTAL - MATERIALS TESTING
1.800.748.5275 www.jonesanddemaille.com

VERNAL CITY
100 NORTH UTILITY RECONSTRUCTION
PLAN & PROFILE
UINTEAH COUNTY
SHEET NO. PP-15

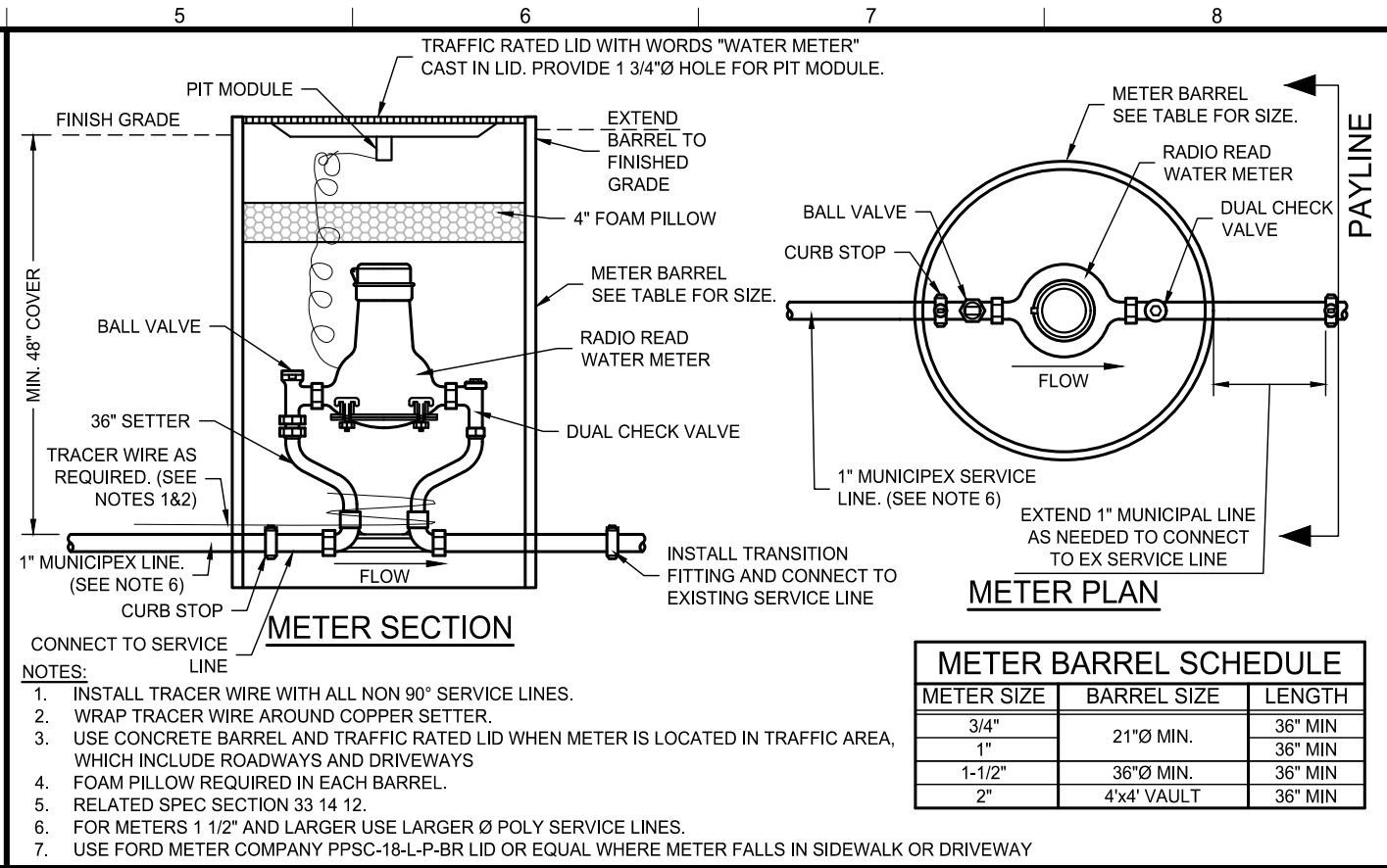
PROJECT NUMBER: 2506-057
SUBMITTAL: FOR BIDDING ONLY
DWG NAME: H:\2506-057\dwg\PP_2506-057.dwg
SCALE: 1" = 50'
REVISED: 12/7/2026
PLOTTED: 12/7/2026



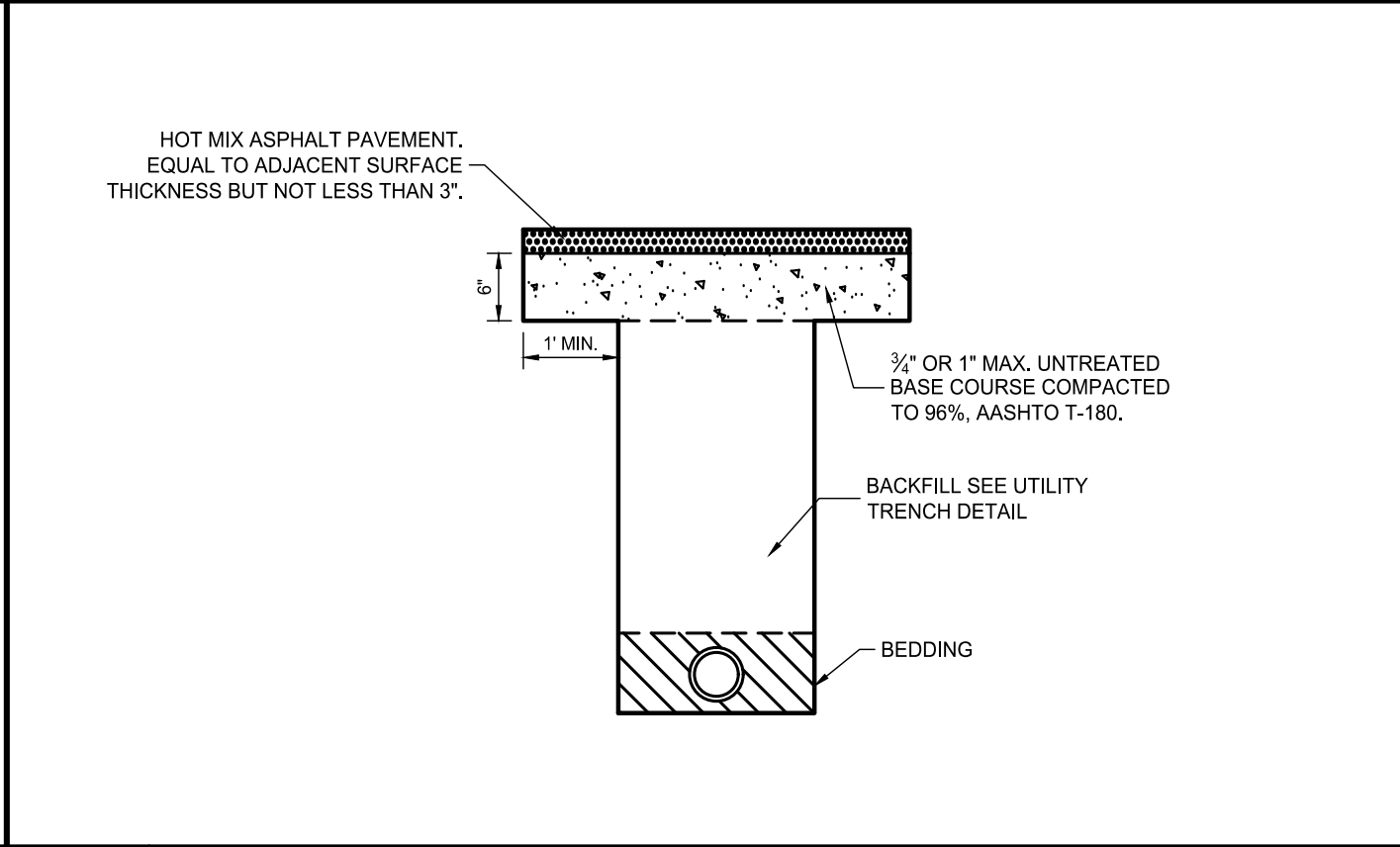
D1	WATER SERVICE CONNECTION
SCALE	N.T.S.



A1	UTILITY TRENCH
SCALE	N.T.S.

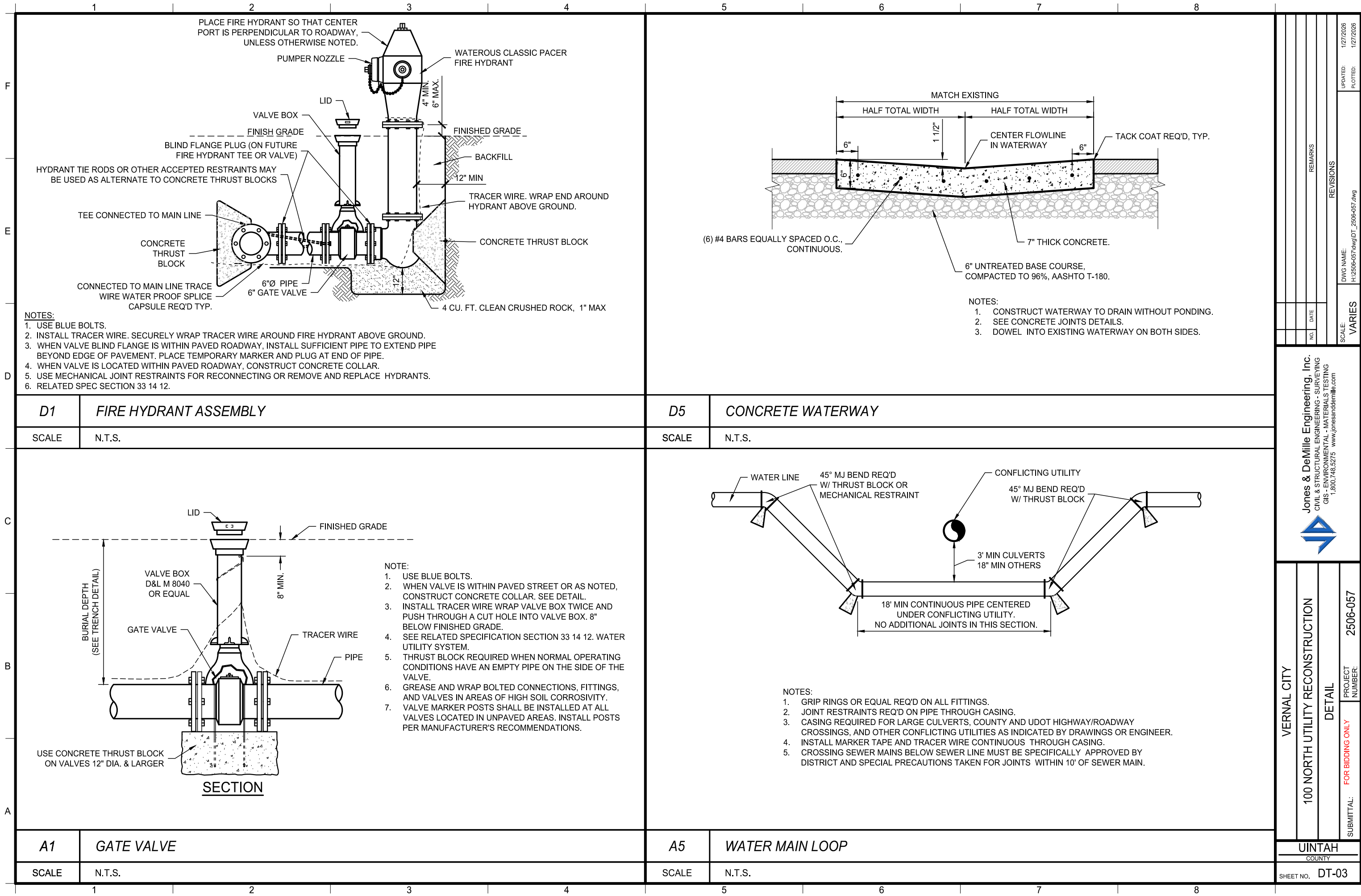


D5	WATER METER
SCALE	N.T.S.



A5	CLASS A ROAD REPAIR
SCALE	N.T.S.

REMARKS		REVISIONS		DWG NAME: H:\2506-057\dwg\DT_2506-057.dwg	UPDATED: 1/27/2026	PLOTTED: 1/27/2026
DATE		NO		SCALE: VARIES		
Jones & DeMille Engineering, Inc. CIVIL & STRUCTURAL ENGINEERING • SURVEYING GIS • ENVIRONMENTAL • MATERIALS TESTING 1.800.748.5275 www.jonesandmille.com						
VERNAL CITY				100 NORTH UTILITY RECONSTRUCTION		
DETAIL				PROJECT NUMBER: 2506-057		
SUBMITTAL: FOR BIDDING ONLY						
UINTAH COUNTY				SHEET NO. DT-02		



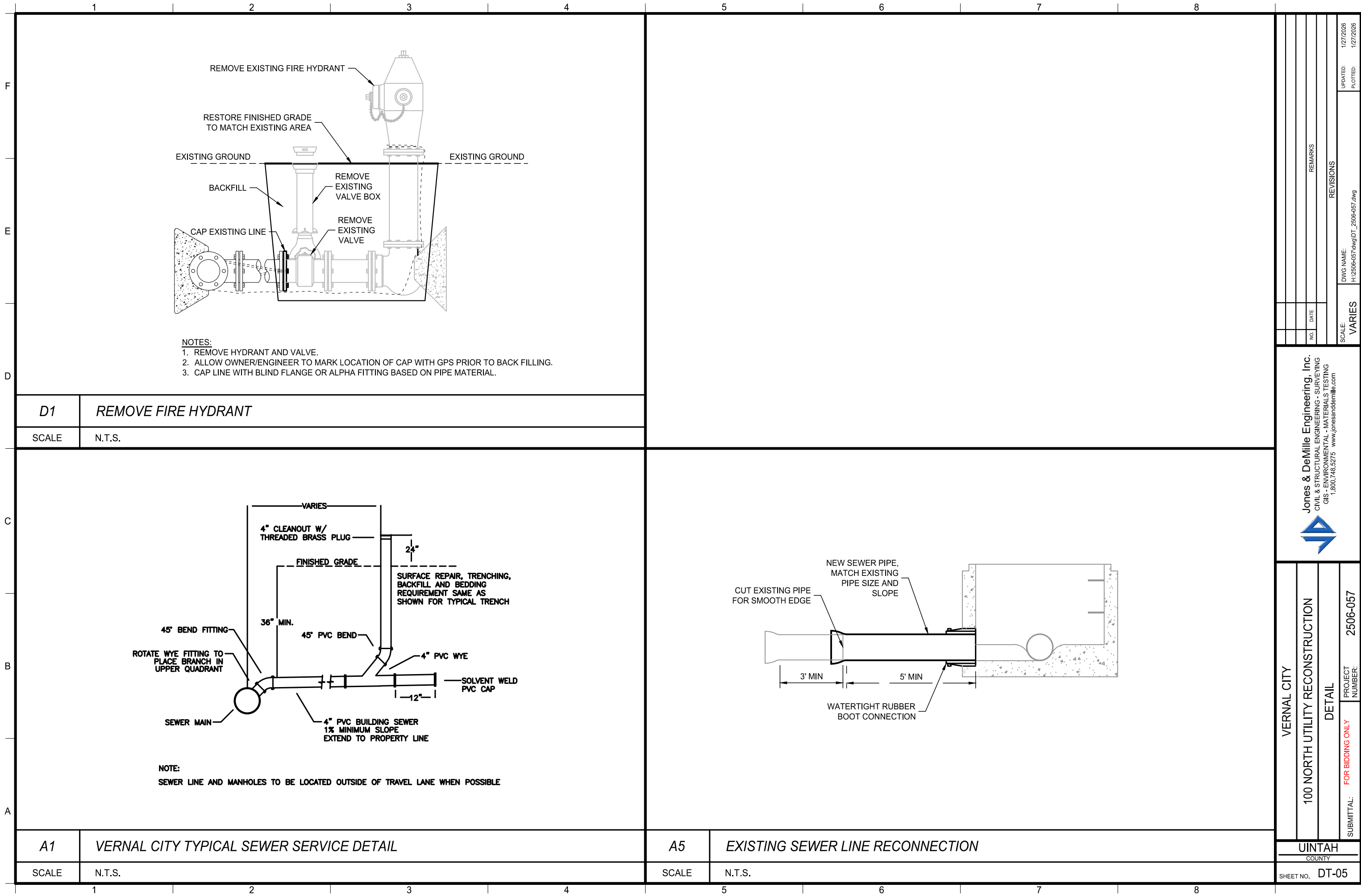


3

67

- | | |
|--|--|
| | |
|--|--|

8



Jones & DeMille Engineering, Inc.

CIVIL & STRUCTURAL ENGINEERING • SURVEYING

GIS • ENVIRONMENTAL • MATERIALS TESTING

1.800.748.5275 www.jonesanddemic.com



VERNAL CITY	100 NORTH UTILITY RECONSTRUCTION	DETAIL	PROJECT NUMBER: 2506-057
SUBMITTAL: FOR BIDDING ONLY			

REVISIONS	DWG NAME: H:\2506-057\dwg\DT_2506-057.dwg	UPDATED: 1/27/2026
NO.	DATE	PLOTTED: 1/27/2026
SCALE: VARIES		

HORIZONTAL BEND

TEE

DEAD END

REDUCER

- NOTES:**
1. RESTRAIN ALL JOINTS WITHIN DISTANCE "L".
 2. PROVIDE RESTRAINED JOINTS ON FITTING.
 3. DISTANCE REQUIRED FOR JOINT RESTRAINTS DEPENDS ON FITTING TYPE, SOIL TYPE AND WORKING PRESSURE.
 4. DESIGN CRITERIA:
 - a. WORKING PRESSURE: 235 p.s.i.
 - b. SAFETY FACTOR: 1.5
 - c. SOIL TYPE: CLAY
 - d. DEPTH OF COVER (TOP OF PIPE): 4'
 - e. PIPE TYPE: PVC
 - f. TRENCH TYPE: 5
 5. PROVIDE DISTANCE "L" REQUIRED FOR JOINT RESTRAINTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, OR BY MINIMUM LISTED IN TABLES ON THIS SHEET.
 6. FOR OTHER FITTINGS, CONTACT ENGINEER.
 7. USE STAINLESS STEEL BOLTS REQUIRED IN AREAS WITH HIGH WATER TABLE.
 8. USE RELATED SPEC SECTION 33 14 12. WATER UTILITY SYSTEM SPECIFICATION.
 9. IF CONTRACTOR WANTS TO CHANGE RESTRAINT LENGTHS, ENGINEER NEEDS SUBMITTAL FROM MANUFACTURER.
 10. GREASE AND WRAP BOLTED CONNECTIONS, FITTINGS, AND VALVES IN AREAS OF HIGH SOIL CORROSIIVITY.

RESTRAINT LENGTH (L) FOR TEES									
BRANCH PIPE SIZE (INCH)	NOMINAL PIPE SIZE ALONG RUN (INCH) PIPE WORKING PRESSURE								
	2	4	6	8	10	12	14	16	18
	200 PSI	200 PSI	200 PSI	200 PSI	200 PSI	200 PSI	200 PSI	200 PSI	200 PSI
2	0	0	9	0	0	0	0	0	0
4	21	10	1	0	0	0	0	0	0
6	37	29	23	17	10	4	0	0	0
8	50	44	39	34	29	25	19	14	9
10	63	59	55	51	47	43	39	35	31
12	76	72	68	65	62	59	55	52	48
14	88	85	82	79	77	74	71	68	65
16	100	97	95	92	90	87	85	82	79
18	113	110	108	106	103	101	99	97	94

RESTRAINT LENGTH IN FEET.

RESTRAINT LENGTH (L) FOR HOR BENDS					
PIPE SIZE (INCH)	PIPE BEND ANGLE & PIPE WORKING PRESSURE				
	HOR. BEND (90°)	HOR BEND (45°)	HOR BEND (22.5°)	HOR BEND (11.25°)	DEAD END
	200 PSI	200 PSI	200 PSI	200 PSI	200 PSI
2	6	3	2	1	13
4	13	6	3	2	29
6	18	8	4	2	42
8	23	10	5	3	54
10	28	12	6	3	67
12	33	14	7	4	79
14	38	16	8	4	91
16	43	18	9	5	102
18	47	20	10	5	114

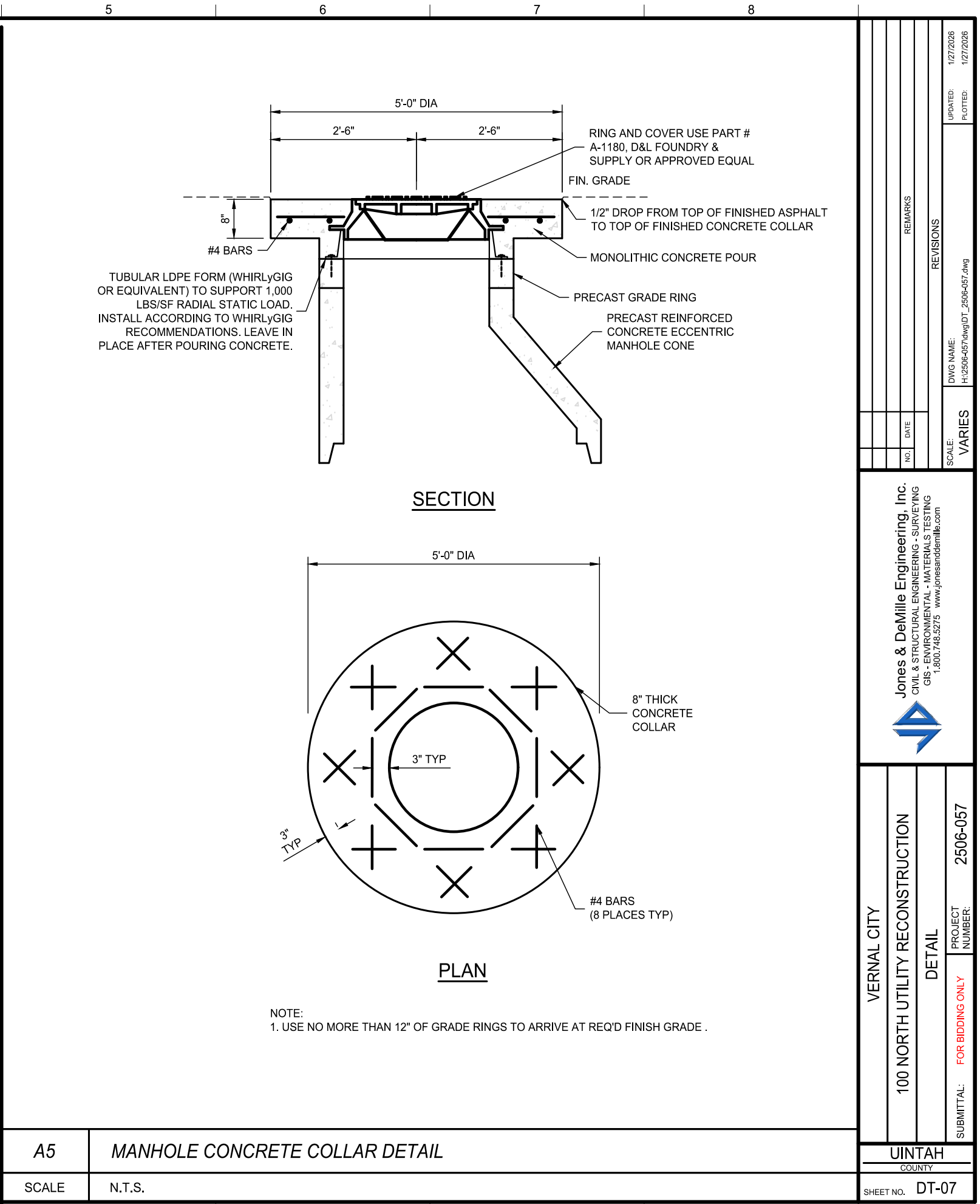
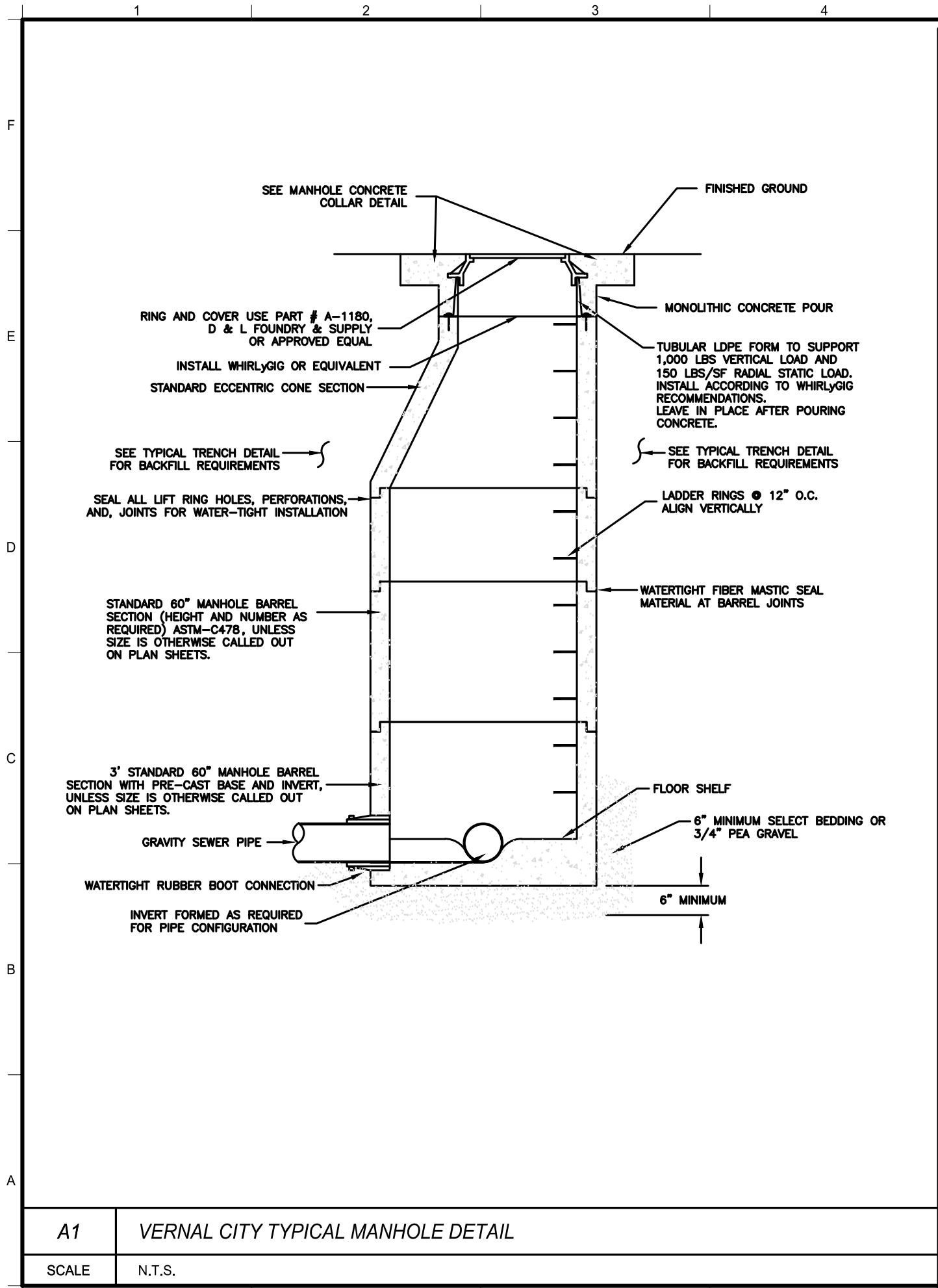
RESTRAINT LENGTH IN FEET.

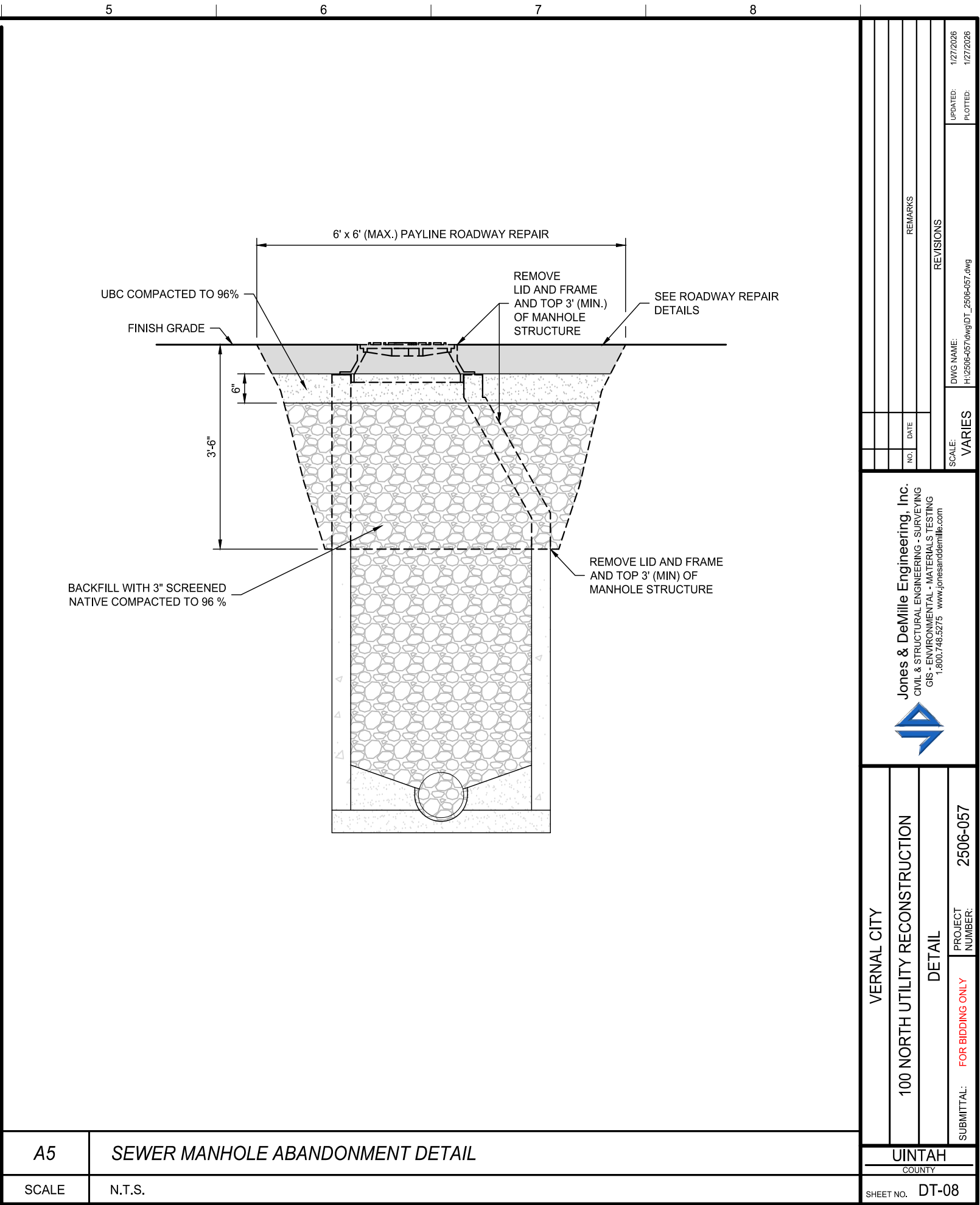
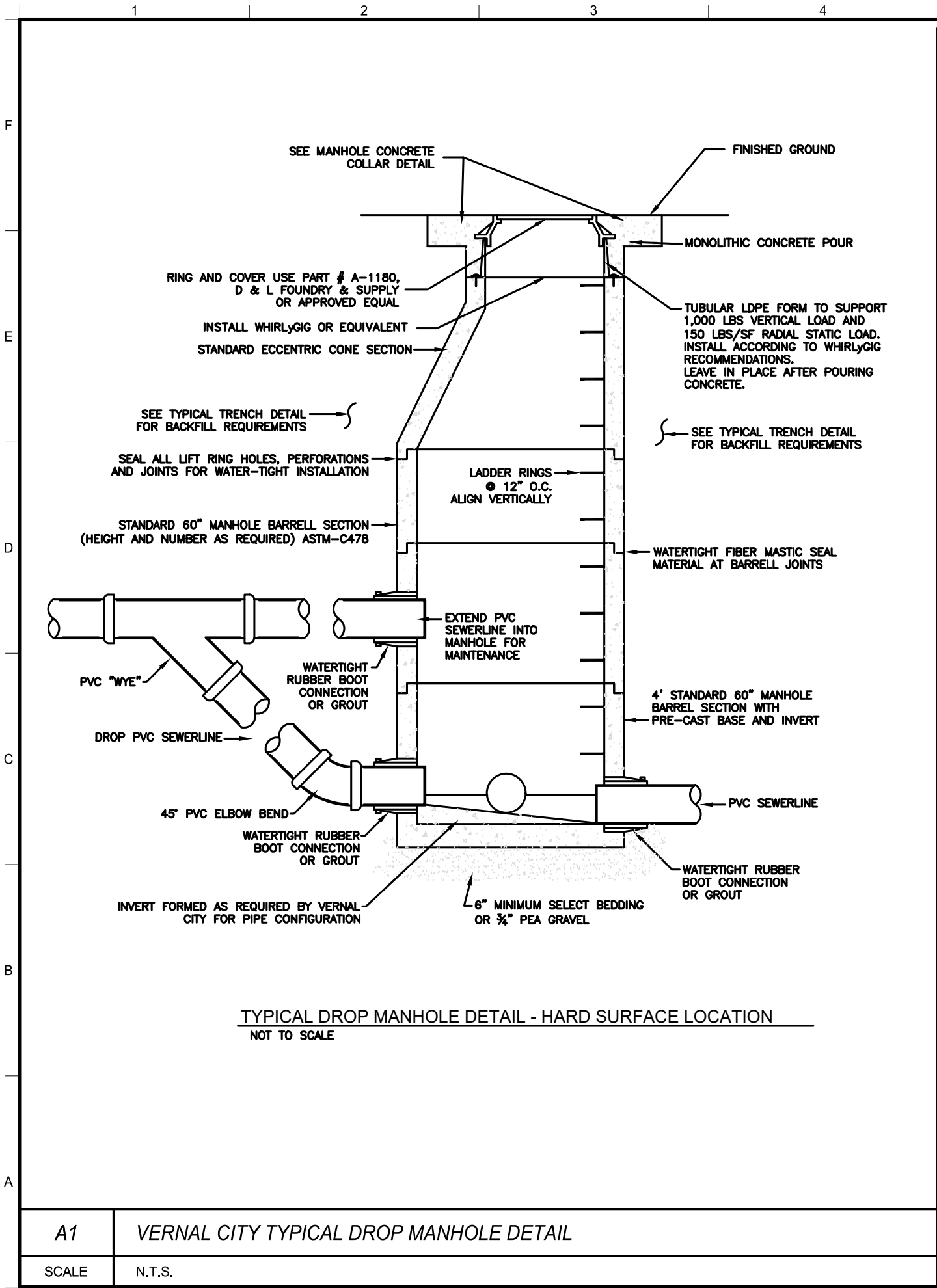
RESTRAINED LENGTH (L) FOR REDUCERS									
SMALLER PIPE SIZE (INCH)	LARGER PIPE SIZE (INCH) & WORKING PRESSURE								
	2	4	6	8	10	12	14	16	18
	200 PSI	200 PSI	200 PSI	200 PSI	200 PSI	200 PSI	200 PSI	200 PSI	200 PSI
2		24	39	52	65	77	89	101	113
4			22	39	55	68	82	95	108
6				22	41	57	72	86	100
8					24	42	60	75	90
10						23	43	60	77
12							24	44	63
14								23	44
16									24
18									

CALCULATED RESTRAINT LENGTH IN FEET.

RESTRAINED LENGTH OCCURS ON LARGE END OF REDUCER

[illegible]





Jones & DeMille Engineering, Inc.
CIVIL & STRUCTURAL ENGINEERING • SURVEYING
GIS • ENVIRONMENTAL • MATERIALS TESTING
1.800.748.5275 www.jonesanddemic.com

VERNAL CITY
100 NORTH UTILITY RECONSTRUCTION
DETAIL

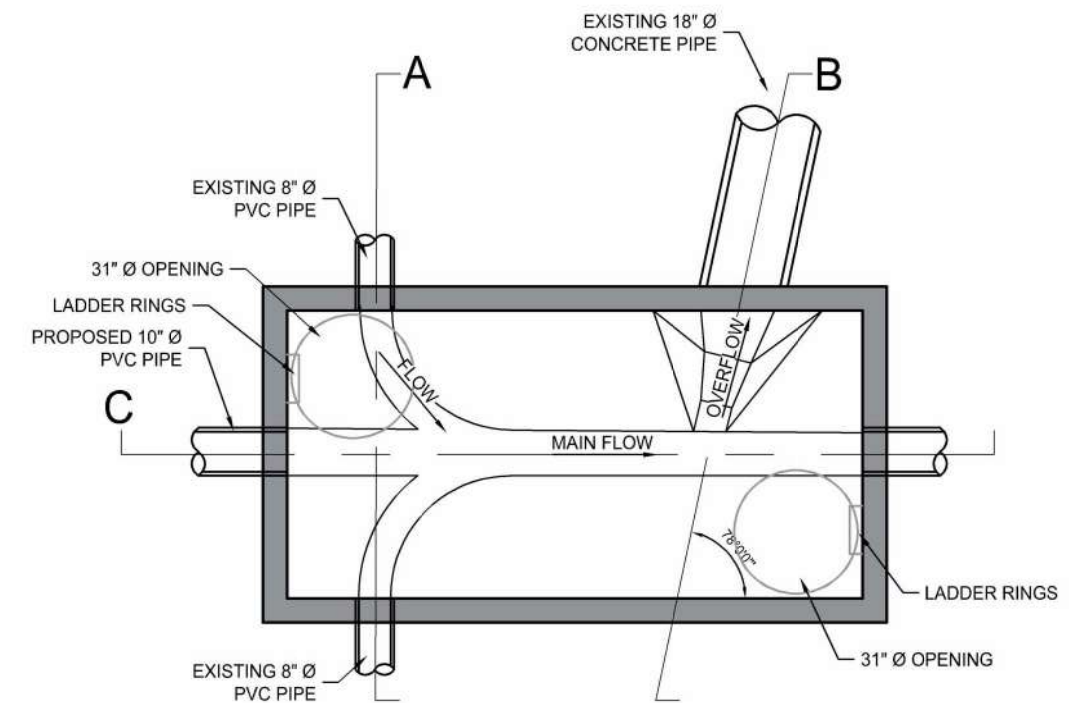
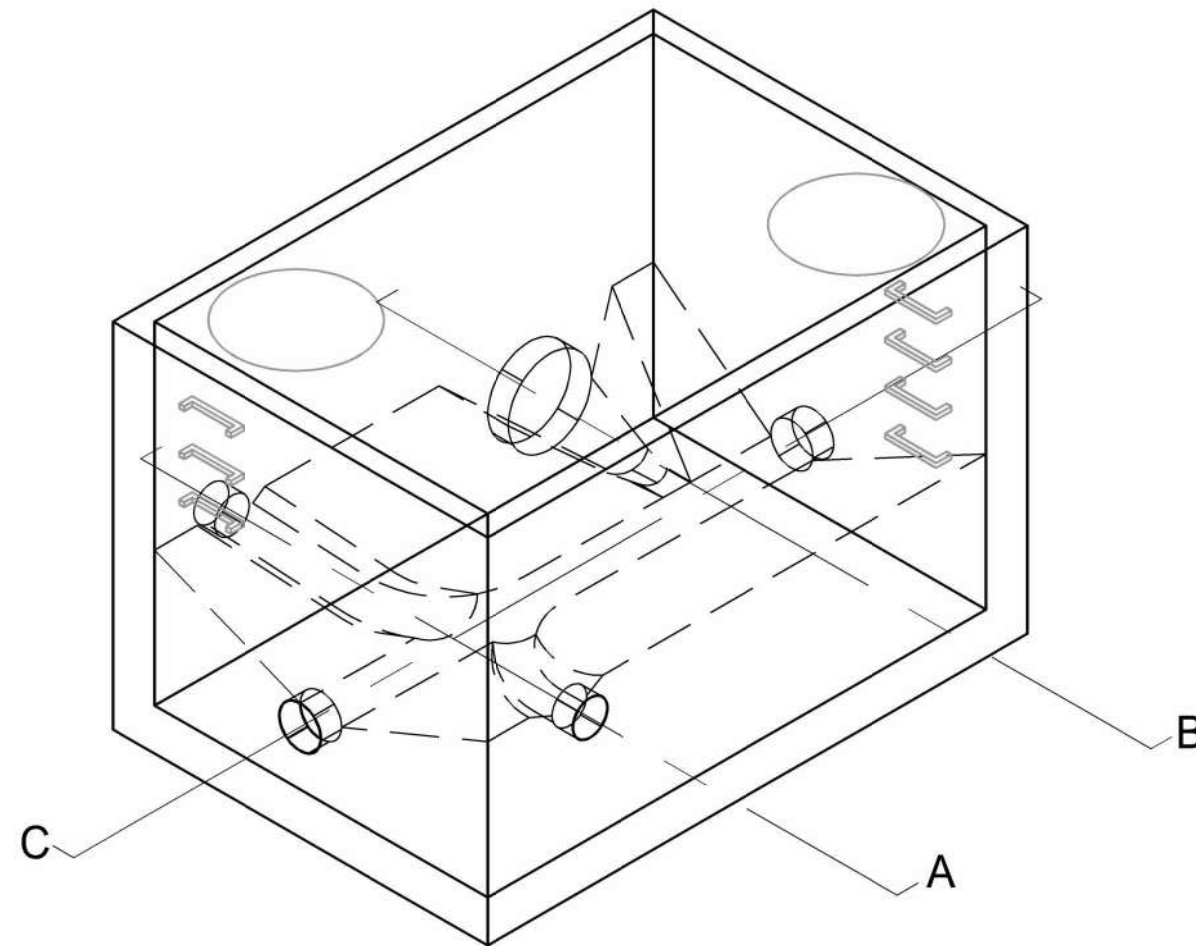
UINTAH
COUNTY

SHEET NO. DT-08

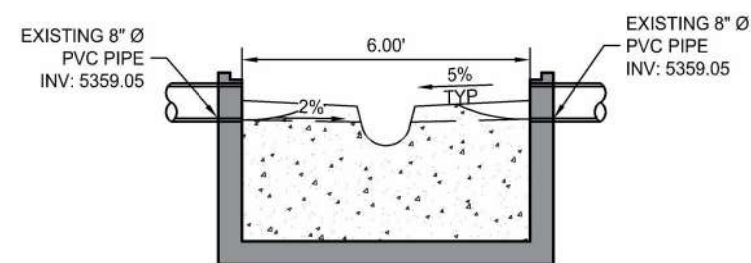
SUBMITTAL: FOR BIDDING ONLY PROJECT NUMBER: 2506-057

REVISIONS
NO. DATE

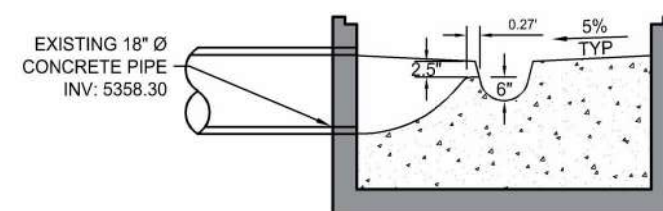
DWG NAME: H:\2506-057.dwg
SCALE: VARIES
UPDATED: 1/27/2026
PLOTTED: 1/27/2026



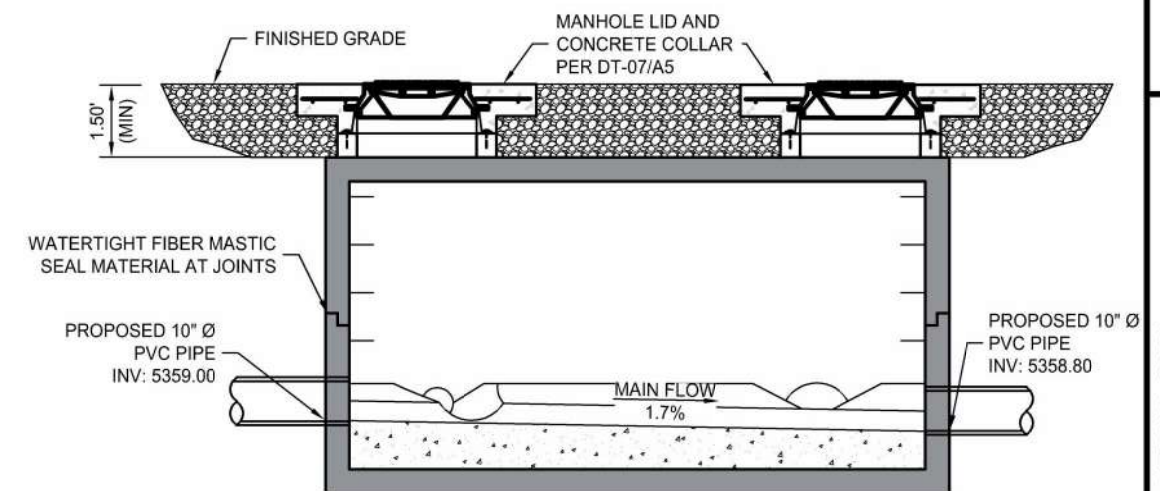
TOP VIEW



SECTION VIEW A



SECTION VIEW B



SECTION VIEW C

NOTE: USE HS-20 RATED 12x6 CONCRETE UTILITY VAULT

A1	500 WEST SEWER VAULT
SCALE	N.T.S.

[illegible]