

TOWN OF PAOLI

ORANGE COUNTY, INDIANA

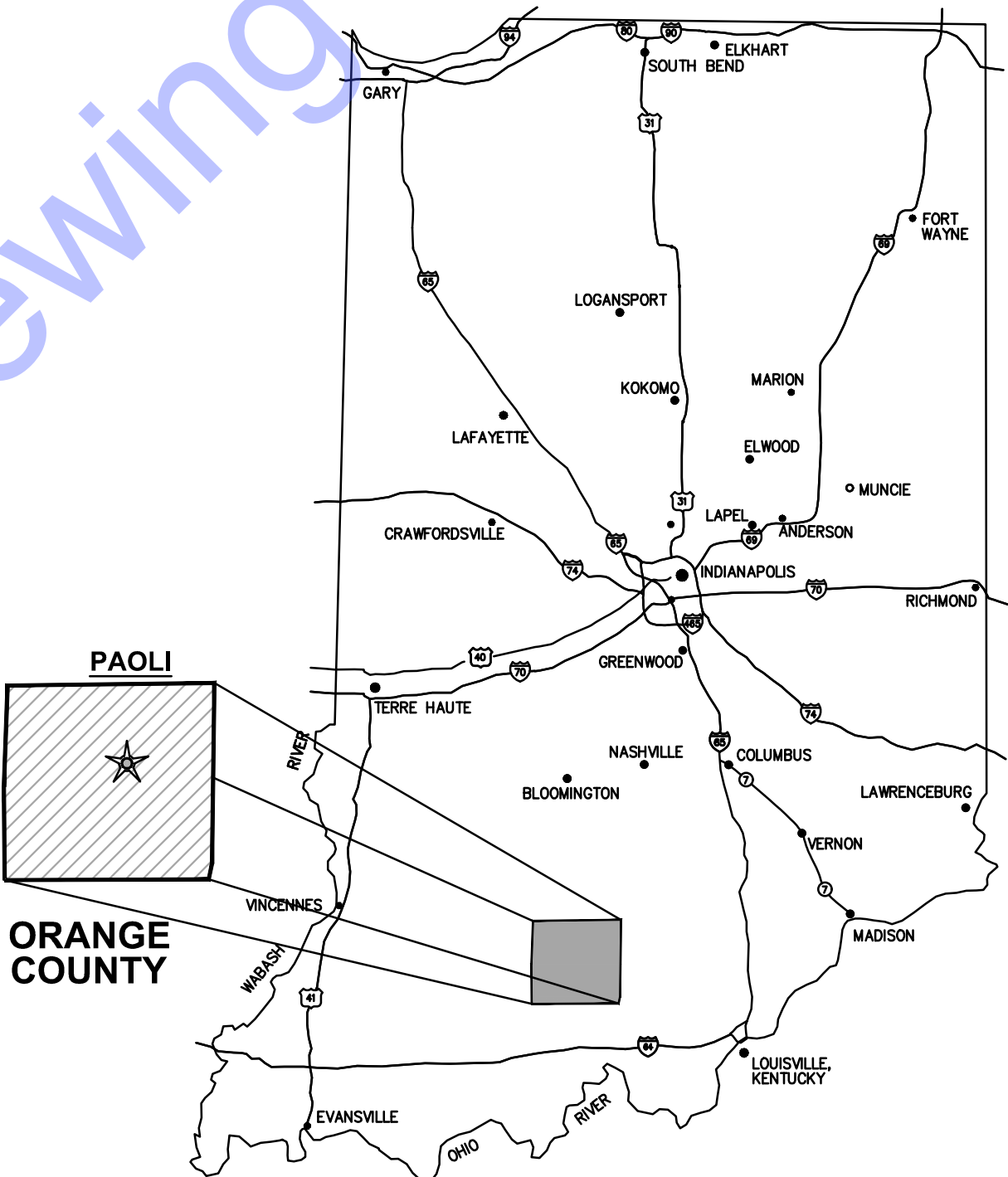
US-150 SANITARY SEWER RELOCATION

FOR DES # 2001937

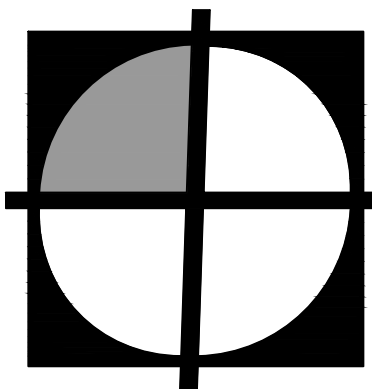
AUGUST 2024

TOWN OF PAOLI COUNCIL

BOBBIE BOSTOCK	PRESIDENT
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THERON OWEN	MEMBER
BETH JONES	CLERK-TREASURER
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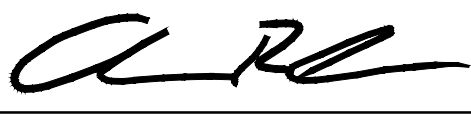


GENERAL LOCATION MAP



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QA/QC BY : ALAN W. LEISTNER, P.E. 09/12/2024
DATE :

CERTIFIED BY :  09/12/2024
AARON R. ROHNER, P.E.
INDIANA P.E. No. 12000723
DATE :



CONTRACT NO. : J24118

SCALE: 1"=200'-0"



DRAWING SET INDEX		
SHEET NO.	DRAWING NO.	SHEET TITLE
GENERAL DRAWINGS		
01	G1	TITLE SHEET
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PLAN AND PROFILE DRAWINGS		
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07	C2	PLAN&PROFILE SEWER LINE-B
MISCELLANEOUS DETAILS		
08	MD1	MISCELLANEOUS DETAILS
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10	MD3	MISCELLANEOUS DETAILS

GENERAL ABBREVIATIONS

AB	AIR	FLD	FILTRATE DRAIN	P/L	MATERIAL
AFF	ANCHOR BOLT	FLG	FLANGE	POJ	PROPERTY LINE
ALT	ABOVE FINISH FLOOR	FL	FLUSHING LINE	PSF	PUSH ON JOINT
ALUM	ALTERNATE	FLR	FLOOR	PSI	POUNDS PER SQUARE FOOT
@	ALUMINUM	FM	FORCE MAIN	PVC	POUNDS PER SQUARE INCH
APP.	AT	FRP	FIBER REINFORCED PLASTIC	PW	POLYVINYL CHLORIDE
ATT	APPARENT	FT	FEET OR FOOT		POTABLE WATER
AUTO	AERATION TANK TRANSFER	FTG	FOOTING		
AVG	AUTOMATIC	FW	FINISHED WATER	R	RECIRCULATION
	AVERAGE			RAD	RADIUS
B		G	GAS	RAS	RETURN ACTIVATED SLUDGE
BLDG	BAFFLE	GALV	GALVANIZED	RCP	REINFORCED CONCRETE PIPE
BM	BUILDING	GEN	GENERAL	RD	ROOF DRAIN
BOT	BENCH MARK	GRD	GROUND OR GRADE	REINF	REINFORCING
BORG	BOTTOM			REQ'D	REQUIRED
BRG	BEARING	HB	HOSE BIBB	R/W (ROW)	RIGHT-OF-WAY
		HORIZ	HORIZONTAL		
CFM	CUBIC FEET PER MINUTE	HP	HORSEPOWER	SAN	SANITARY
CL	CENTERLINE	HW	HOT WATER	SAS	SANITARY SEWER
CO	CLEAN OUT			SCH	SCHEDULE
COL/C	COLUMN	ID	INSIDE DIAMETER	SECT	SECTION
CONC	CONCRETE	IJ	ISOLATION JOINT	SF	SQUARE FEET
COP	COPPER	INV	INVERT	SHT	SHEET
CJ	CONSTRUCTION JOINT	IP	IRON PIN	SL	SAMPLE LINE
CW	COLD WATER			SOS	STORM SEWER
CY	CUBIC YARD	LAV	LAVATORY	SP	STOP PLATE
		LB	POUND	SQ	SQUARE
D	DRAIN	LL	LIVE LOAD	STD	STANDARD
DEC	DECANT	LLV	LONG LEG VERTICAL	S STL, SS	STAINLESS STEEL
DIA	DIAMETER	LTG	LIGHTING	STL	STEEL
DIM	DIMENSION			SUP	SUPERNATANT
DI	DUCTILE IRON PIPE			SY	SQUARE YARD
DL	DEAD LOAD	MAX	MAXIMUM		
DSPT	DOWN SPOUT	MCC	MOTOR CONTROL CENTER		
DWG	DRAWING	MGD	MILLIONS GALLONS PER DAY	TOS	TOP OF SLAB
		MH	MANHOLE	TOW	TOP OF WALL
		MIN	MINIMUM, MINUTE	TW	TERTIARY WATER
E	ELECTRICAL CONDUIT	MJ	MECHANICAL JOINT	TYP	TYPICAL
EA	EACH				
EF	EACH FACE	NC	NORMALLY CLOSED	V	VACUUM OR VALVE
EFFL	EFFLUENT	NG	NATURAL GAS	VAR	VARIES
EL	ELEVATION	NIC	NOT IN CONTACT	VERT	VERTICAL
EW	EACH WAY	NO	NORMALLY OPEN		
EX	EXISTING	NO.	NUMBER	W	WEIR
EXF	EXHAUST FAN	NPW	NON-POTABLE WATER	W/	WITH
EXP JP	EXPANSION JOINT			W/O	WITHOUT
		OC	ON CENTER	WAS	WASTE ACTIVATED SLUDGE
F	FILTER	OD	OUTSIDE DIAMETER	WC	WATER CLOSET
FCAR	FLANGED COUPLING ADAPTER,	OPG	OPENING	WH	WATER HEATER
	RESTRAINED	OPP	OPPOSITE	WL	WATER LINE
FD	FLOOR DRAIN			WWF	WELDED WIRE FABRIC
FDN	FOUNDATION	PB	PULL BOX		
FH	FIRE HYDRANT	PE	POLYETHYLENE EXP. JT.	YH	YARD HYDRANT

GENERAL NOTES

1. ALL PROPERTY AND RIGHT-OF-WAY LINE INFORMATION SHOWN IN DRAWING SET ARE APPARENT AND SHALL NOT BE DEEMED EXACT LOCATIONS, UNLESS OTHERWISE NOTED. INFORMATION WAS OBTAINED VIA "INDIANA ON-LINE" GIS SHAPE FILES.
2. EXISTING UTILITY INFORMATION SHOWN IN DRAWING SET, MEETS "ASCE 36-02" QUALITY LEVEL ***, UNLESS OTHERWISE NOTED.

UTILITY COORDINATION AND PROJECT DIRECTION OF EXISTING SUBSURFACE UTILITY DATA:

UTILITY QUALITY LEVEL DESCRIPTIONS:

UTILITY QUALITY LEVEL A - PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATIONS OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES, USUALLY AT A SPECIFIC POINT. ACCURACY OF LOCATION MATCHES PROJECT SURVEY TOLERANCE.

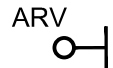
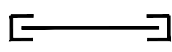
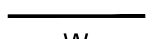
UTILITY QUALITY LEVEL B - INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION SUBSURFACE UTILITIES. THE RELIABILITY OF THIS INFORMATION IS SURVEYED TO PROJECT CONTROL AND SUBJECT TO ACCURACY LEVELS OF THE GEOPHYSICAL TOLERANCE DEFINED BY THE PROJECT.

UTILITY QUALITY LEVEL C - INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE GROUND UTILITY FEATURES AND CORRELATING QUALITY LEVEL "D" INFORMATION.

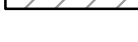
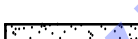
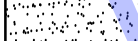
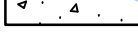
UTILITY QUALITY LEVEL D - INFORMATION DERIVED FROM EXISTING RECORDS OR VERBAL RECOLLECTIONS.

3. NORTHING AND EASTING COORDINATES SHOWN ON ALL MANHOLE, INLETS, ETC. ARE SHOWN FROM CENTER OF STRUCTURE NOT CASTING, UNLESS OTHERWISE NOTED.
4. ALL MANHOLES THAT HAVE PIPE INVERT DIFFERENTIAL OF 2' OR GREATER, SHALL BE CONSIDERED A DROP MANHOLE. CONTRACTOR SHALL REFER TO MISCELLANEOUS DETAILS AND DETAILED SPECIFICATIONS FOR MORE INFORMATION.

GENERAL SCHEMATIC LEGEND

	QUICK DISCONNECT		BOOSTER PUMP
	FLANGED SPOOL SECTION		AIR RELIEF VALVE
PRV 	PRESSURE REDUCER VALVE		FLOW METER
	FLANGED COUPLING ADAPTER		GATE VALVE
	BALL CHECK VALVE		FLOW CONTROL VALVE
	MOTOR ACTUATOR		VALVE
	FLEXIBLE CONNECTION		ECCENTRIC PLUG VALVE
	FLANGE FILLER & S.S. MESH SCREEN		CHECK VALVE
W V90	90° V-NOTCH WEIR		INCREASER / REDUCER
	MAGNETIC FLOW METER		BUTTERFLY VALVE
	ULTRASONIC SENSOR		PIPE THROUGH FLOOR / WALL
	SUBMERSIBLE PUMP		BALL VALVE
	NEW PIPING AND EQUIPMENT		BLIND FLANGE OR PLUG
	EXISTING PIPING AND EQUIPMENT		HOSE BIBB
	FUTURE PIPING AND EQUIPMENT		STOP PLATE
			WEIR

HATCHING SYMBOLS

	-CMU WALL (PLAN VIEW)
	-GRANULAR BACKFILL (PROFILE VIEW)
	- DEMOLITION (CONTRACTOR SHALL REFER TO DETAILED SPECIFICATIONS)
	- GROUT
	- CONCRETE
	- STEEL
	- COMPACTED GRANULAR BACKFILL OR COMPACTED FOUNDATION
	- ABANDONED IN PLACE

DRAWING SET LEGEND

	EXISTING OVERHEAD TELEPHONE LINE		AC UNIT		TELEPHONE MANHOLE
	EXISTING GAS LINE AND VALVE		BOLLARD		TELEPHONE LINE MARKER
	EXISTING WATER LINE AND VALVE		BOULDER / LARGE ROCK		TRAFFIC MANHOLE
	EXISTING FIBER OPTIC LINE		CENTER LINE MONUMENT		WATER LINE MARKER
	EXISTING OVERHEAD ELECTRIC LINE		CONTROL POINT / BENCH MARK		WATER METER
	EXISTING BURIED ELECTRIC		DRILL HOLE		VALVE
	EXISTING NON-POTABLE WATER LINE		MAIL BOX		IRRIGATION CONTROL VALVE
	EXISTING POTABLE WATER LINE		FLAG POLE		FIRE HYDRANT
	EXISTING BURIED TELEPHONE LINE		POST		FLUSH HYDRANT
	EXISTING FENCE		STUMP		YARD HYDRANT
	APPARENT RIGHT-OF-WAY		BUSH / HEDGE		WALL SPIGOT
	APPARENT PROPERTY LINE		DECIDUOUS TREE		EXISTING PIPE PLUG
	EDGE OF ROAD		CONIFEROUS TREE		STORM CATCH BASIN (SQUARE)
	EDGE OF ROAD WITH CURB		SIGN		STORM CATCH BASIN (ROUND)
	EXISTING MAJOR CONTOUR LINE		UTILITY LOCATE FLAG		STORM CURB INLET
	EXISTING MINOR CONTOUR LINE		GAS LINE MARKER		STORM MANHOLE
	NEW WATER LINE		GAS VALVE		SANITARY MANHOLE
	PROPOSED MAJOR CONTOUR LINE		GAS METER		SANITARY VALVE
	PROPOSED MINOR CONTOUR LINE		GUY POLE		CLEANOUT
			POWER POLE		VENT
			LIGHT POLE		NEW VALVE
			GUY WIRE		NEW FIRE HYDRANT
			ELECTRIC METER		NEW FLUSH HYDRANT
			ELECTRIC PANEL		NEW WET SADDLE AND VALVE BODY
			ELECTRIC TRANSFORMER		NEW PLUG
			HAND HOLE BOX		NEW LINE STOP
			FIBER OPTIC MARKER		NEW CUT AND CAP
			TEL/TV PEDESTAL		NEW SANITARY MH

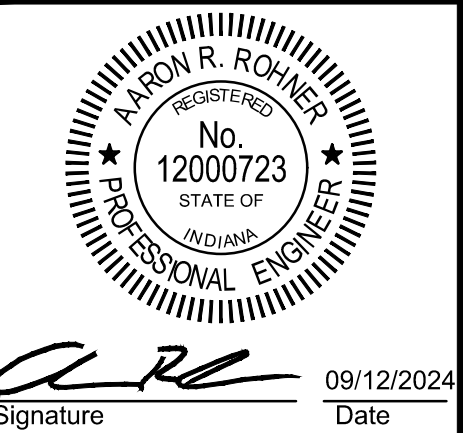
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OFFICE LOCATIONS:

INDIANAPOLIS, IN. (2)
EVANSVILLE, IN.
FORT WAYNE, IN.
CROWN POINT, IN.
HOWLING GREEN, KY.
SOUTH BEND, IN.



**TOWN OF PAOLI
ORANGE COUNTY, INDIANA
US-150 SANITARY SEWER
RELOCATION
FOR DES # 2001937**

[illegible]

GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

Drawing No:
G3
Sheet: 03 OF 10



Project coordinates are based on the following:
HORIZONTAL-NAD83(2011) / InGCS Crawford-Lawrence-Orange (ftUS)
VERTICAL- USGS 1988 NAVD (North American Vertical Datum)-per GPS observations (Not verified by physical location of published USGS monuments)



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OFFICE LOCATIONS IN:

- INDIANAPOLIS, IN. (2)
- EVANSVILLE, IN.
- FORT WAYNE, IN.
- CROWN POINT, IN.
- BOWLING GREEN, KY.
- SOUTH BEND, IN.



Signature _____ Date _____

The first step in the process of identifying a problem is to recognize that a problem exists. This is often done by comparing current performance with a desired state or goal. Once a problem is identified, the next step is to define the problem more precisely. This involves determining the scope of the problem, the resources available, and the constraints that may be affecting the problem. The third step is to analyze the problem. This involves identifying the causes of the problem and the relationships between the different elements of the problem. The fourth step is to develop a solution. This involves identifying the different options available and evaluating the pros and cons of each option. The fifth step is to implement the solution. This involves putting the solution into action and monitoring the results. The sixth step is to evaluate the solution. This involves comparing the results of the solution with the desired state or goal and determining whether the solution has been successful.

**TOWN OF PAOLI
ORANGE COUNTY, INDIANA
US-150 SANITARY SEWER
RELOCATION
FOR DES # 2001937**

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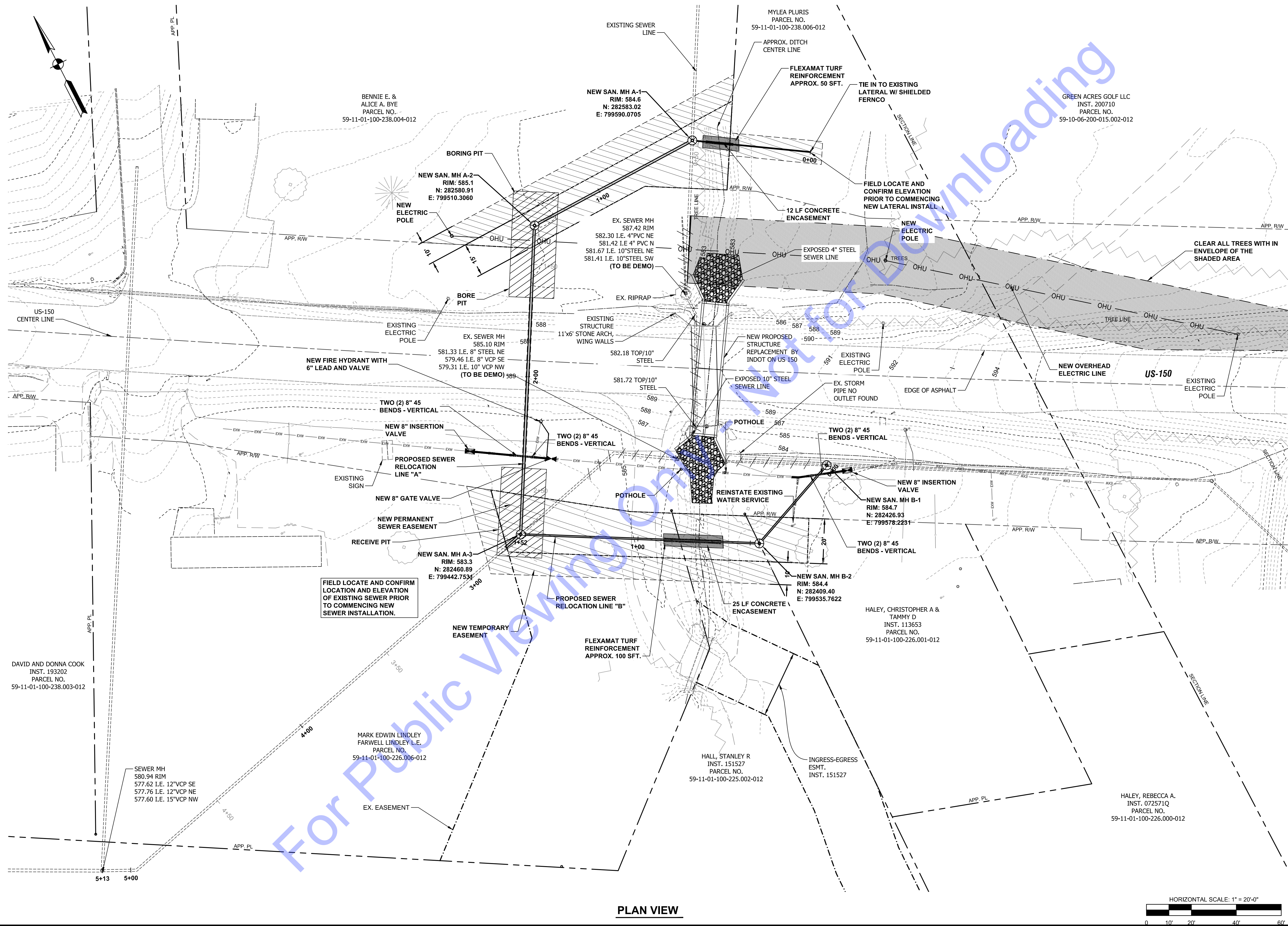
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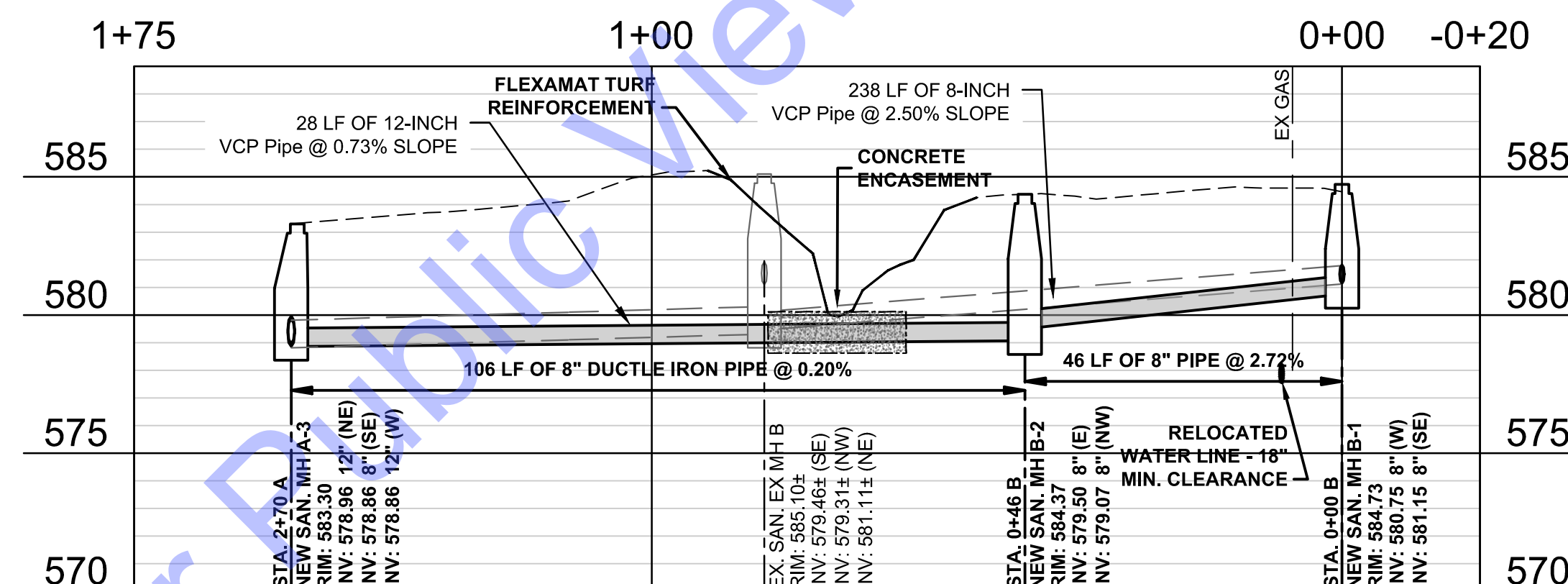
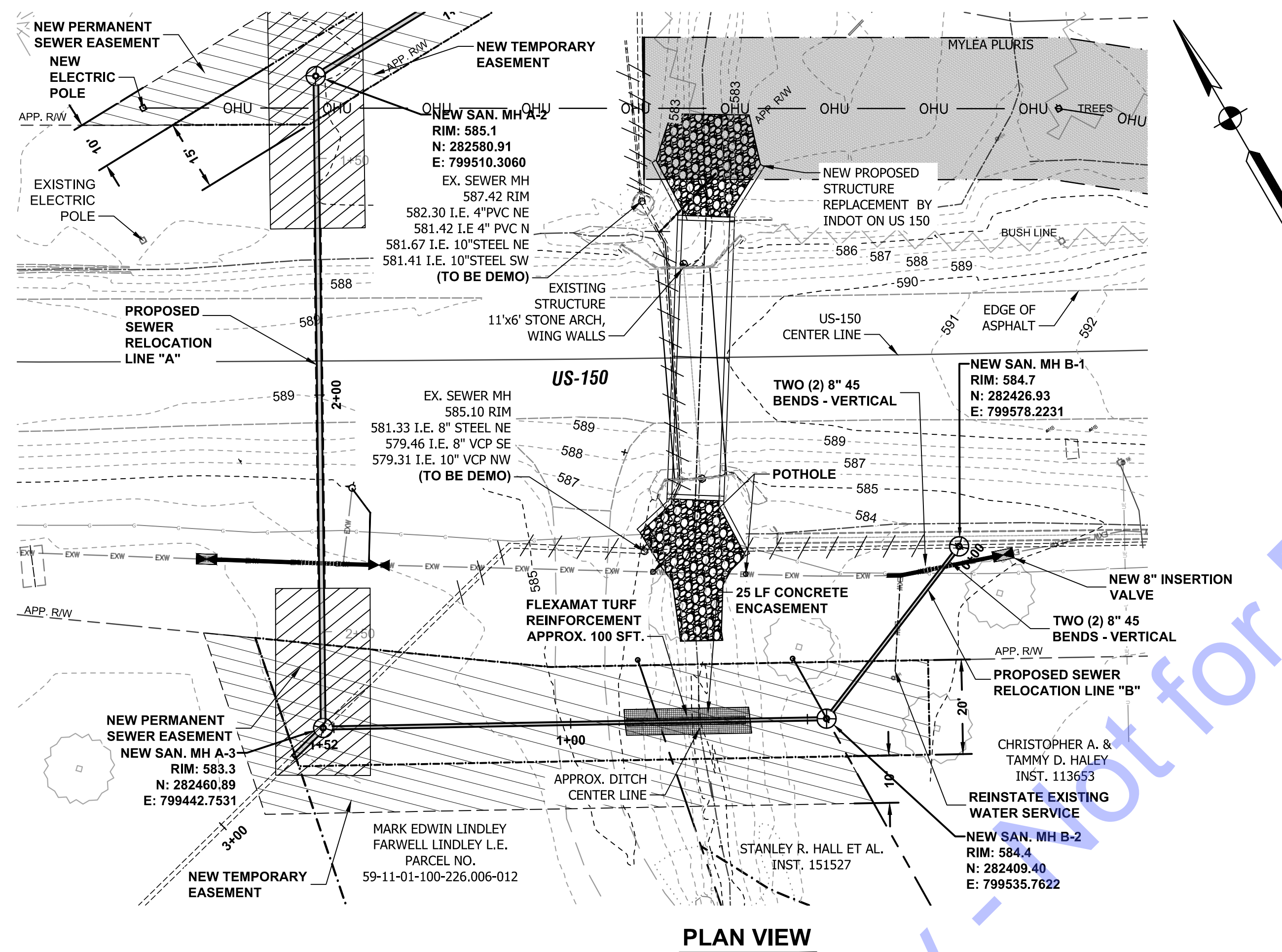
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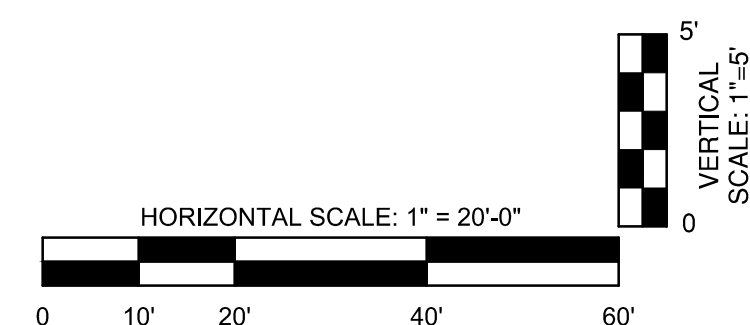
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Sheet: 04 OF 10





PROFILE VIEW LINE-B





GENERAL NOTES:

1. NEW "DOG-HOUSE" MANHOLE SHALL BE AS SPECIFIED FOR STANDARD MANHOLES IN WM-9 "STANDARD MANHOLES"
2. ALL REINFORCING SHALL MEET ASTM C-478
3. HOLES IN PRECAST UNITS SHALL BE 4" MIN. TO 8" MAX. LARGER THAN THE OUTSIDE DIAMETER OF THE PROPOSED PIPE

NO SCALE



NO SCALE

