# TOWN OF MILFORD KOSCIUSKO COUNTY, INDIANA

# WATER UTILITY IMPROVEMENTS DIVISION B - WATER MAIN AND SERVICE LINE IMPROVEMENTS JANUARY 2025

# **TOWN COUNCIL**

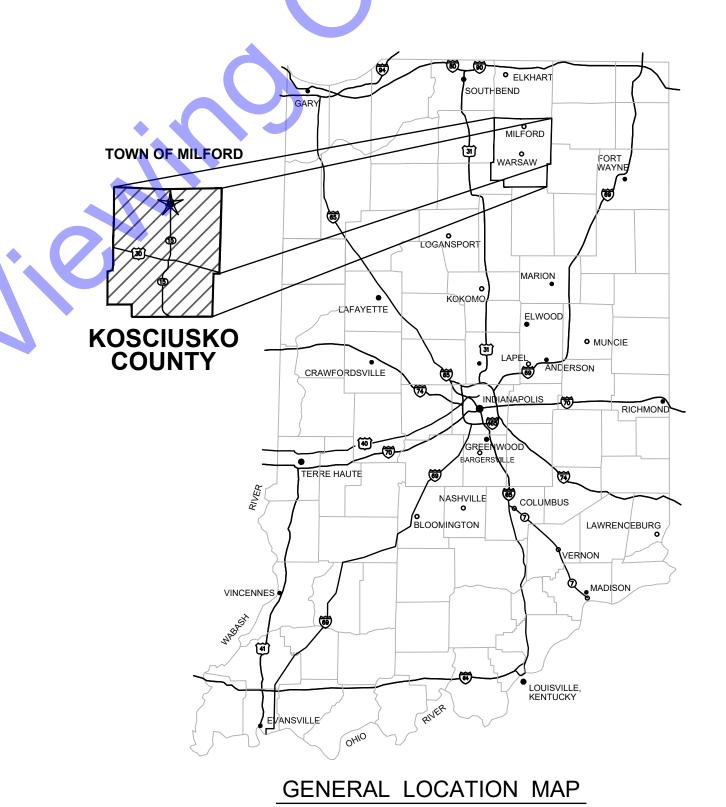
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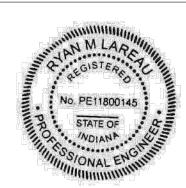
QA/QC BY: JOHN WETZEL, P.E. 12/23/2024
DATE:

CERTIFIED BY:

RYAN LAREAU

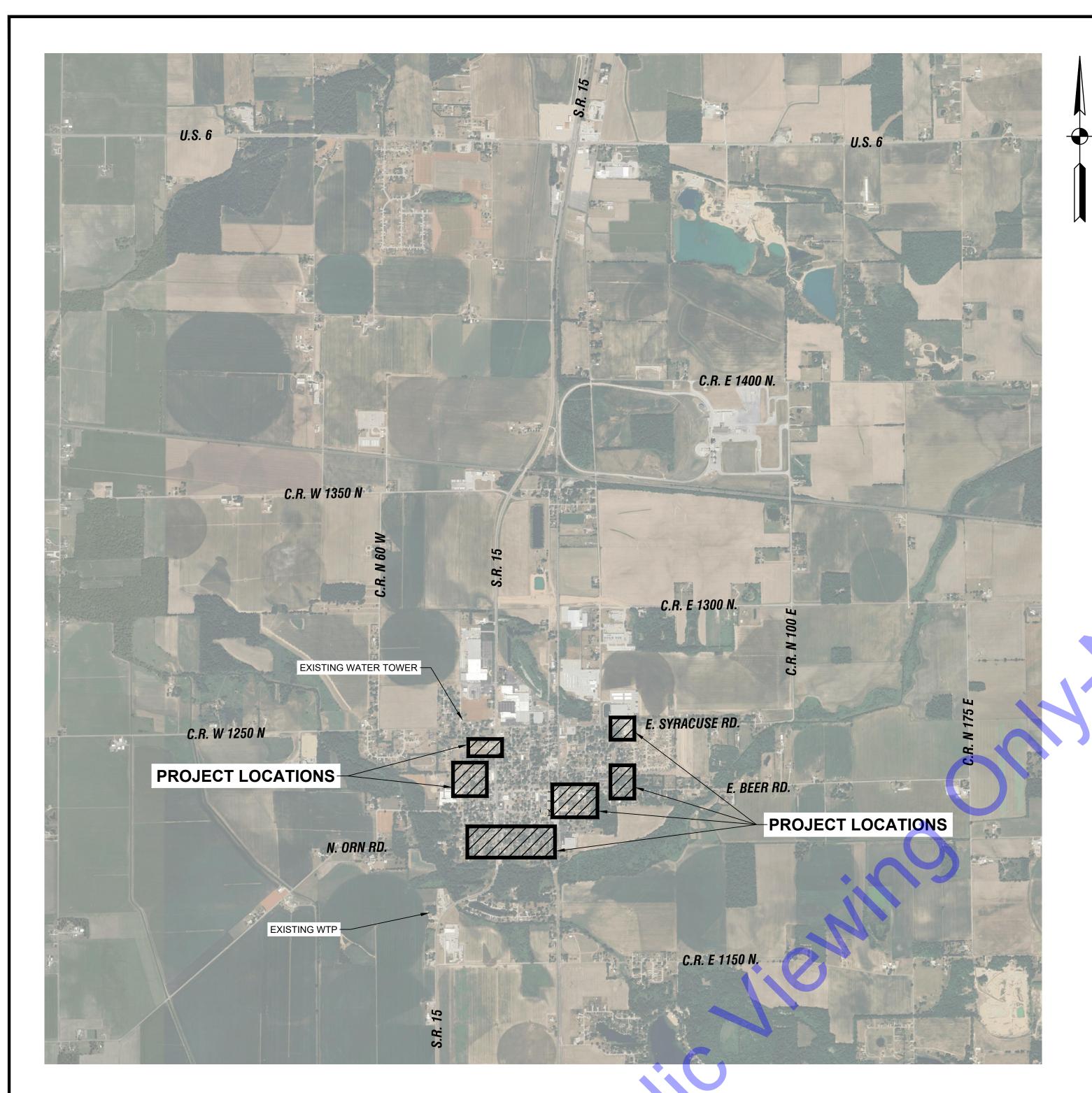
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12/09/2024 DATE :



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**CONTRACT NO. : <u>W24161</u>** 



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SCALE:	1"=1,500'-0"	
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Date									
By									
Submittal / Revision									
No.									
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VICINITY MAP AND DRAWING SET INDEX

Issue Date: Project No: Scale: 1-14-25 W24161 AS SHOWN

Drawing N

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# **GENERAL ABBREVIATIONS**

	<u> </u>		ABBITE VIII THE TOTAL		
•	AUD	EL D	EU TRATE RRAIN		MATERIAL
A	AIR	FLD	FILTRATE DRAIN	_ ,,	MATERIAL
AB	ANCHOR BOLT	FLG	FLANGE	P/L	PROPERTY LINE
AFF	ABOVE FINISH FLOOR	FL	FLUSHING LINE	POJ	PUSH ON JOINT
ALT	ALTERNATE	FLR	FLOOR	PSF	POUNDS PER SQUARE FOOT
ALUM	ALUMINUM	FM	FORCE MAIN	PSI	POUNDS PER SQUARE INCH
@	AT	FRP	FIBER REINFORCED PLASTIC	PVC	POLYVINYL CHLORIDE
APP.	APPARENT	FT	FEET OR FOOT	PW	POTABLE WATER
ATT	AERATION TANK TRANSFER	FTG	FOOTING		
AUTO	AUTOMATIC	FW	FINISHED WATER	R	RECIRULCATION
AVG	AVERAGE		THUSINES WITHER	RAD	RADIUS
7170	7(7) 21 (7) (8) 2	G	GAS	RAS	RETURN ACTIVATED SLUDGE
В	BAFFLE	GALV	GALVANIZED	RCP	REINFORCED CONCRETE PIPE
BLDG	BUILDING				
		GEN	GENERAL	RD	ROOF DRAIN
BM	BENCH MARK	GRD	GROUND OR GRADE	REINF	REINFORCING
BOT	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	STORM SEWER STOP PLATE
CT	CODIC TAND				
Б	DDAIN	LB	POUND	SQ	SQUARE
D	DRAIN	LL	LIVE LOAD	STD	STANDARD
DEC	DECANT	LLV	LONG LEG VERTICAL	•	STAINLESS STEEL
DIA	DIAMETER	LTG	LIGHTING	STL	STEEL
DIM	DIMENSION			SUP	SUPERNATANT
DI	DUCTILE IRON PIPE	MAX	MAXIMUM	SY	SQUARE YARD
DL	DEAD LOAD	MCC	MOTOR CONTROL CENTER		
DSPT	DOWN SPOUT	MGD	MILLIONS GALLONS PER DAY	TOS	TOP OF SLAB
DWG	DRAWING	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	VERI	VERTICAL
				14/	WEID
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.	ΥH	YARD HYDRANT
	· · · - · - · · · · ·	· <del>-</del>			

# **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 "C", UNLESS OTHERWISE NOTED.

UTILITY COORDINATION AND PROJECT DIRECTION OF EXISTING SUBSURFACE UTILITY DATA:

### **UTILITY QUALITY LEVEL DESCRIPTIONS:**

HATCHING SYMBOLS

-CMU WALL (PLAN VIEW) -GRANULAR BACKFILL (PROFILE VIEW)

- DEMOLITION (CONTRACTOR SHALL REFER TO DETAILED SPECIFICATIONS)

- COMPACTED GRANULAR BACKFILL OR

COMPACTED FOUNDATION

- ABANDONED IN PLACE

<u>UTILITY QUALITY LEVEL A</u> - 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.

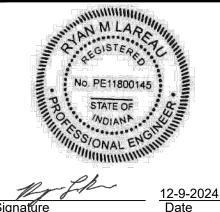
			DRAWING SET	Γ LEG	<u>END</u>			
OPESKISKINKENSKROHMAHOMSSOHOO	COMMUNICATION UTILITIES VAULT COMMUNICATION BOX COMMUNICATION UTILITIES PEDESTAL COMMUNICATION UTILITIES MANHOLE BURIED LINE — WARNING RISER TRAFFIC UTILITIES MANHOLE/HAND HOLE TRAFFIC UTILITIES VAULT STRAIN POLE TRAFFIC CONTROLS CABINET/ PEDESTAL GAS METER GAS VALVE (TYP.) GAS CURB STOP GAS UTILITIES VAULT WATER METER WATER VALVE (TYP.) WATER CURB STOP FIRE HYDRANT POST INDICATOR VALVE IRRIGATION CONTROL VALVE YARD HYDRANT WATER UTILITIES MANHOLE WATER UTILITIES VAULT WELL IRRIGATION SIDEWALK CROSSING LAWN SPRINKLER HEAD		POWER POLE/ UTILITY POLE LIGHT POLE TRANSFORMER PAD ELECTRICAL HANDHOLE ELECTRICAL BOX AIR CONDITIONING UNIT ELECTRIC UTILITIES PEDESTAL ELECTRICAL METER GUY ANCHOR ELECTRICAL UTILITIES MANHOLE ELECTRICAL PANEL ELECTRICAL PANEL ELECTRIC UTILITIES VAULT YARD LIGHT STORM DRAINAGE MANHOLE ROUND STORM DRAINAGE INLET  YARD DRAIN DOWNSPOUT SANITARY SEWER MANHOLE LIFT STATION MANHOLE CLEANOUT DECIDUOUS TREE CONIFEROUS TREE BUSH (DECIDUOUS) BUSH (CONIFEROUS)		MONITORING WELL	STM:  ST — ST — OE — O	SANITARY SANITARY SANITARY SANITARY STORM S STORM S STORM S STORM S OVERHEA UNDERGR UNDERGR UNDERGR UNDERGR UNDERGR UNDERGR UNDERGR OVERHEA UNDERGR OVERHEA UNDERGR OVERHEA UNDERGR OVERHEA UNDERGR UN	E (RECORD) INE (EXST.) INE (RECORD) WATER LINE (EXST.) WATER LINE (EXST.) WATER LINE (RECORD) TER LINE (EXST.) FOR LINE (RECORD) ON LINE (EXST.) ON LINE (RECORD) ALL NE (TYP.) INK FENCE LINE ELD TYPE FENCE LANDSCAPING
_	— — — — — — — — — — — — — — — — — — —		R CONTOUR LINE  R CONTOUR LINE  NE	Ø	NEW VALVE NEW FIRE HYDRANT			NEW LINE STOP
			· - <u></u>	7	NEW ELLICH HYDDANT			NEW REDUCER

PROPOSED MAJOR CONTOUR LINE

PROPOSED MINOR CONTOUR LINE

**®** NEW FLUSH HYDRANT

NEW WET SADDLE AND VALVE BODY



Designed By: Drawn By: Checked By ssue Date: Project No: Scale: 1-14-25 | W24161 | AS SHOWN

**GENERAL** ABBREVIATIONS, LEGENDS, SYMBOLS, AND NOTES

G3

NEW SANITARY MH

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HORIZONTAL CONTROL POINT INFORMATION									
IDENTIFIER	NORTHING	EASTING	DESCRIPTION						
HC #47000	2243116.88	278918.27	HCV MAG TOC E MAIN AND SECTION AT HOUSE 310						
HC #47001	2243098.82	277699.24	HCV MAG IN SW SW HIGBEE AND SECTION						
HC #47002	2241738.16	276600.56	HCV MAG WITH WASHER W SR 15 AT DRIVE FOR SELF STORAGE						
HC #47003	2243400.93	277247.80	HCV MAG IN SW 75' W FIRST AND MAPLE AT HOUSE 504						
HC #47004	2244366.94	277109.12	HCV MAG IN CONC DRV HOUSE 509						
HC #47005	2244840.00	277321.00	HCV CHIZ X MH S RIM N MAPLE AND FOURTH						
HC #47006	2245319.27	277726.62	HCV MAG TOC E HIGBEE AND SIXTH 1' S ICC						
HC #47007	2245836.38	280545.47	HCV CHIZ X N RIM MH N SYRACUSE AND SHAFFER						
HC #47008	2244374.05	280551.56	HCV MAG TOC S CATHERINE AND SHAFFER						
HC #47009	2243941.14	279302.19	HCV MAG CONC NW JAMES AND EMELINE						
	IDENTIFIER  HC #47000  HC #47001  HC #47003  HC #47004  HC #47005  HC #47006  HC #47007  HC #47008	IDENTIFIER NORTHING  HC #47000 2243116.88  HC #47001 2243098.82  HC #47002 2241738.16  HC #47003 2243400.93  HC #47004 2244366.94  HC #47006 2245319.27  HC #47007 2245836.38  HC #47008 2244374.05	IDENTIFIER         NORTHING         EASTING           HC #47000         2243116.88         278918.27           HC #47001         2243098.82         277699.24           HC #47002         2241738.16         276600.56           HC #47003         2243400.93         277247.80           HC #47004         2244366.94         277109.12           HC #47005         2244840.00         277321.00           HC #47006         2245319.27         277726.62           HC #47007         2245836.38         280545.47           HC #47008         2244374.05         280551.56						

BENCHMARK INFORMATION							
IDENTIFIER	ELEVATION	DESCRIPTION					
BM #7400	834.62	BM CHIZ X NNW BB FH S OF SECTION AND HENRY					
BM #7401	835.24	BM RR SPIKE IN PWP 688 028 NW FIRST AND HENRY					
BM #7402	834.70	BM RR SPIKE IN PWP 542 484 NE WEST AND HENRY					
BM #7403	827.79	BM RR SPIKE PWP INSIDE FCE AT TREATMENT PLANT					
BM #7404	828.40	BM RR SPIKE PWP 1-058-469 AT HOUSE 11687 ON SR 15					
BM #7405	834.67	BM CHIZ X S BB FH NE FIRST AND MAPLE					
BM #7406	833.24	BM MAG IN FLAGPOLE BASE AT SCHOOL MAIN ENTRANCE					
BM #7407	833.64	BM RR SPIKE PWP 1-052-749 NE ELM AND FOURTH					
BM #7408	834.06	BM RR SPIKE LP 1074033					
BM #7409	835.11	BM RR SPIKE PWP 689-891 150' S SYRACUSE AND SHAFFER					
BM #7410	836.89	BM RR SPIKE LP 1064-706 E FOURTH AND SHAFFER					
BM #7411	834.76	BM RR SPIKE PWP 543561 SW JAMES AND CATHERINE					
BM #7412	834.17	BM RR SPIKE PWP 692-135 50' W EAST AND EMELINE					

Project coordinates are based on the following:

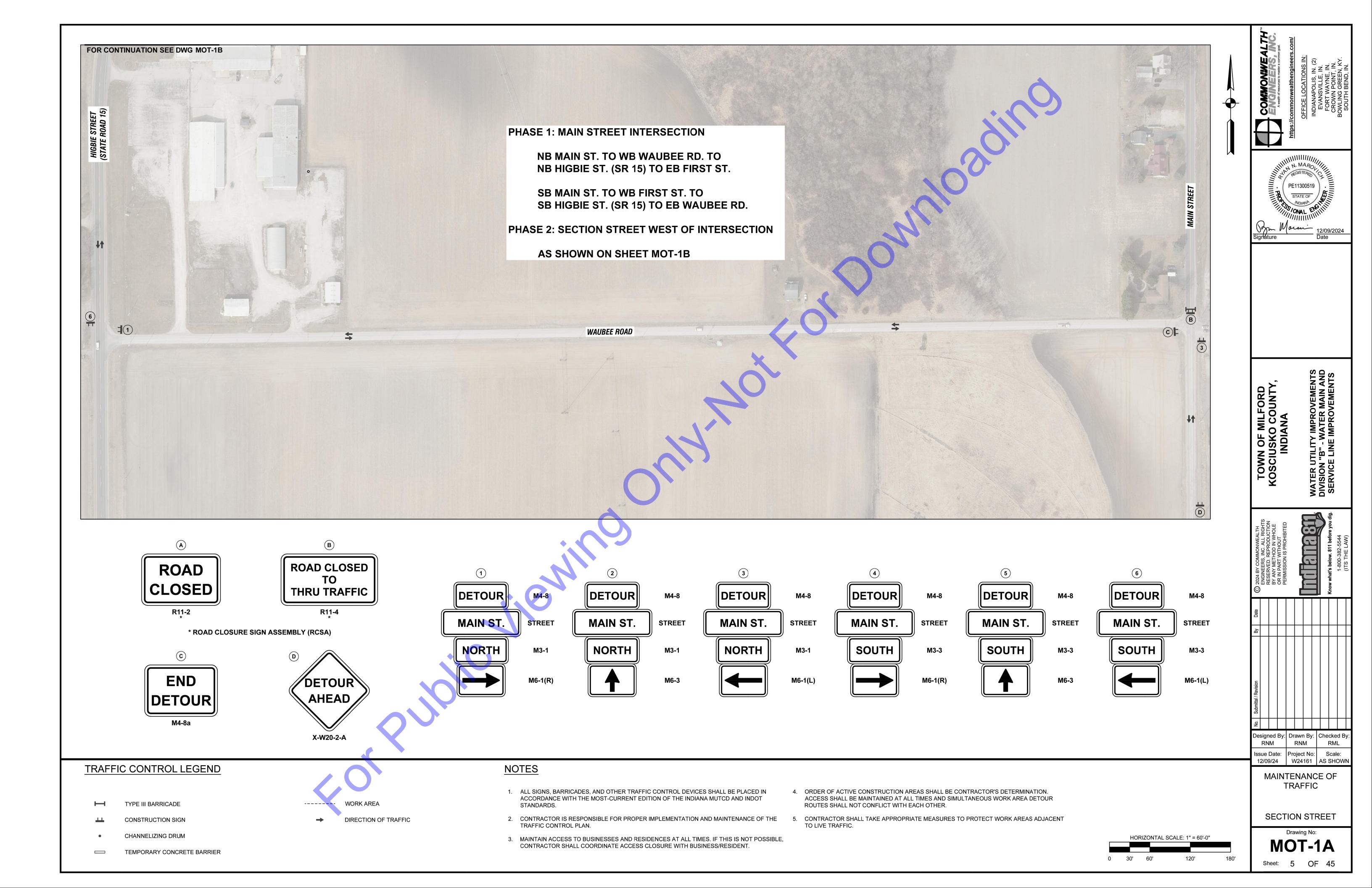
HORIZONTAL-US State plane coordinates: NAD83 (North American Datum) Indiana East Zone (1301)

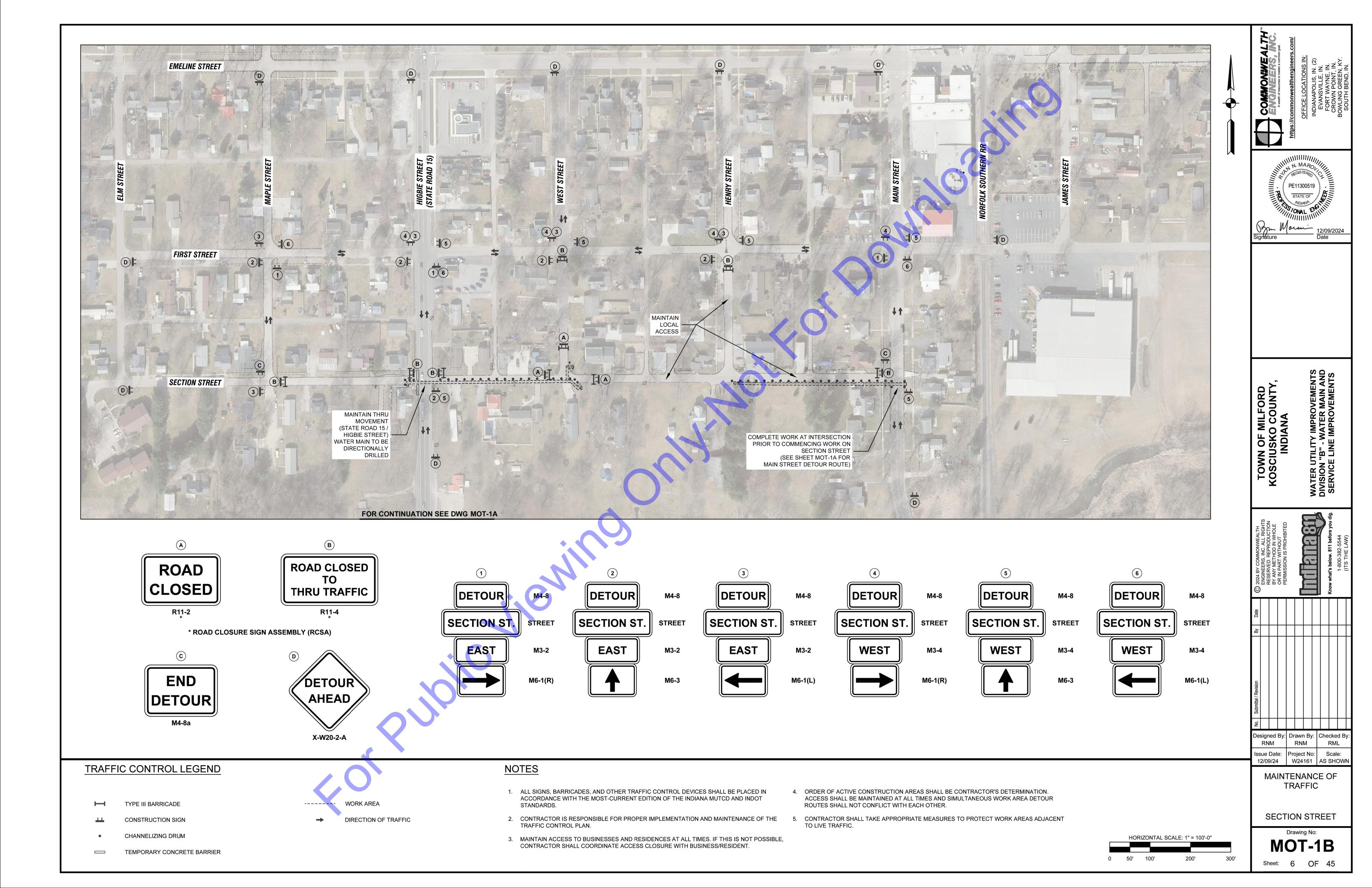
VERTICAL- USGS 1988 NAVD (North American Vertical Datum)-per GPS observations (Not verified by physical location of published USGS monuments)

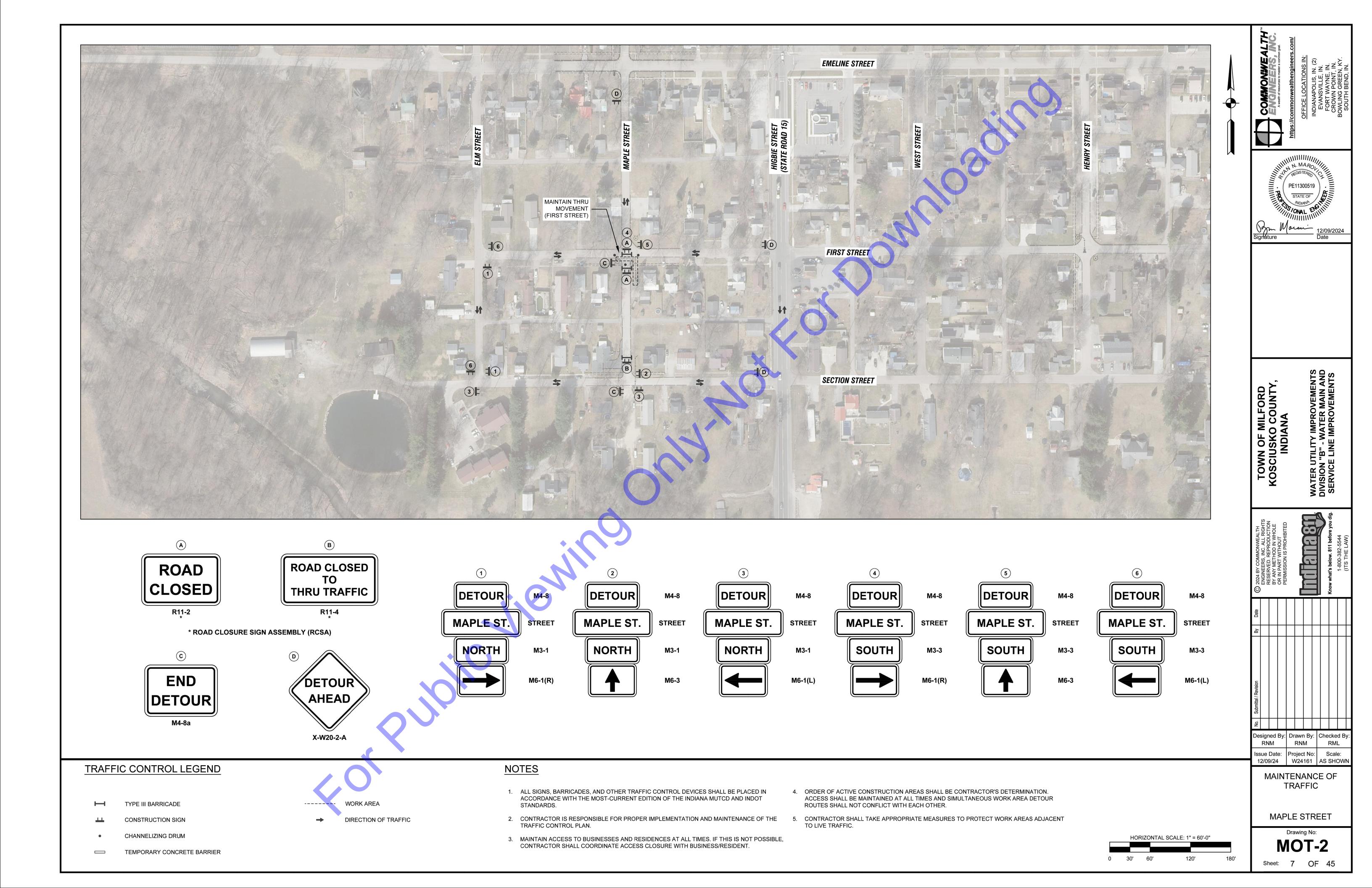
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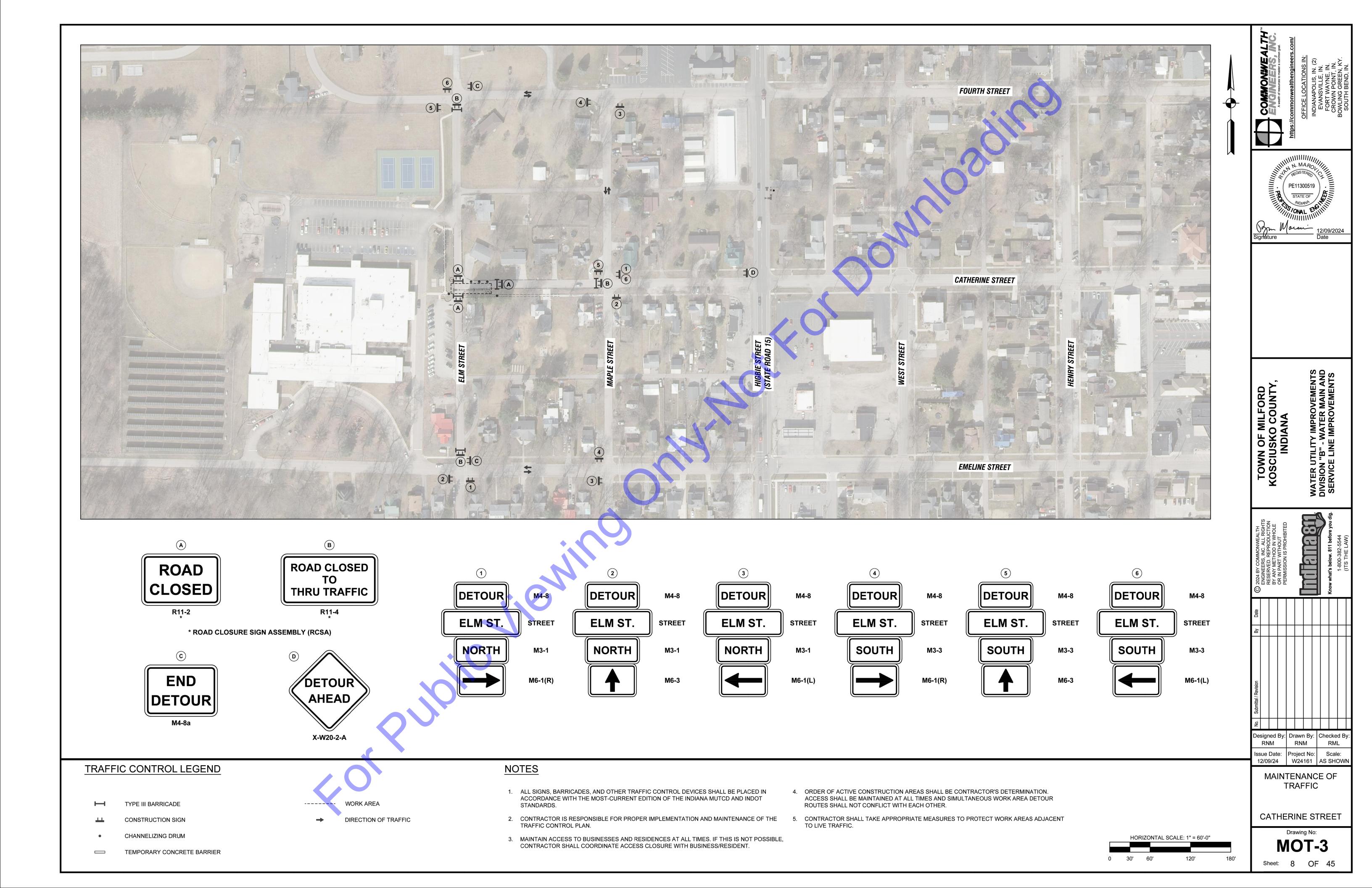
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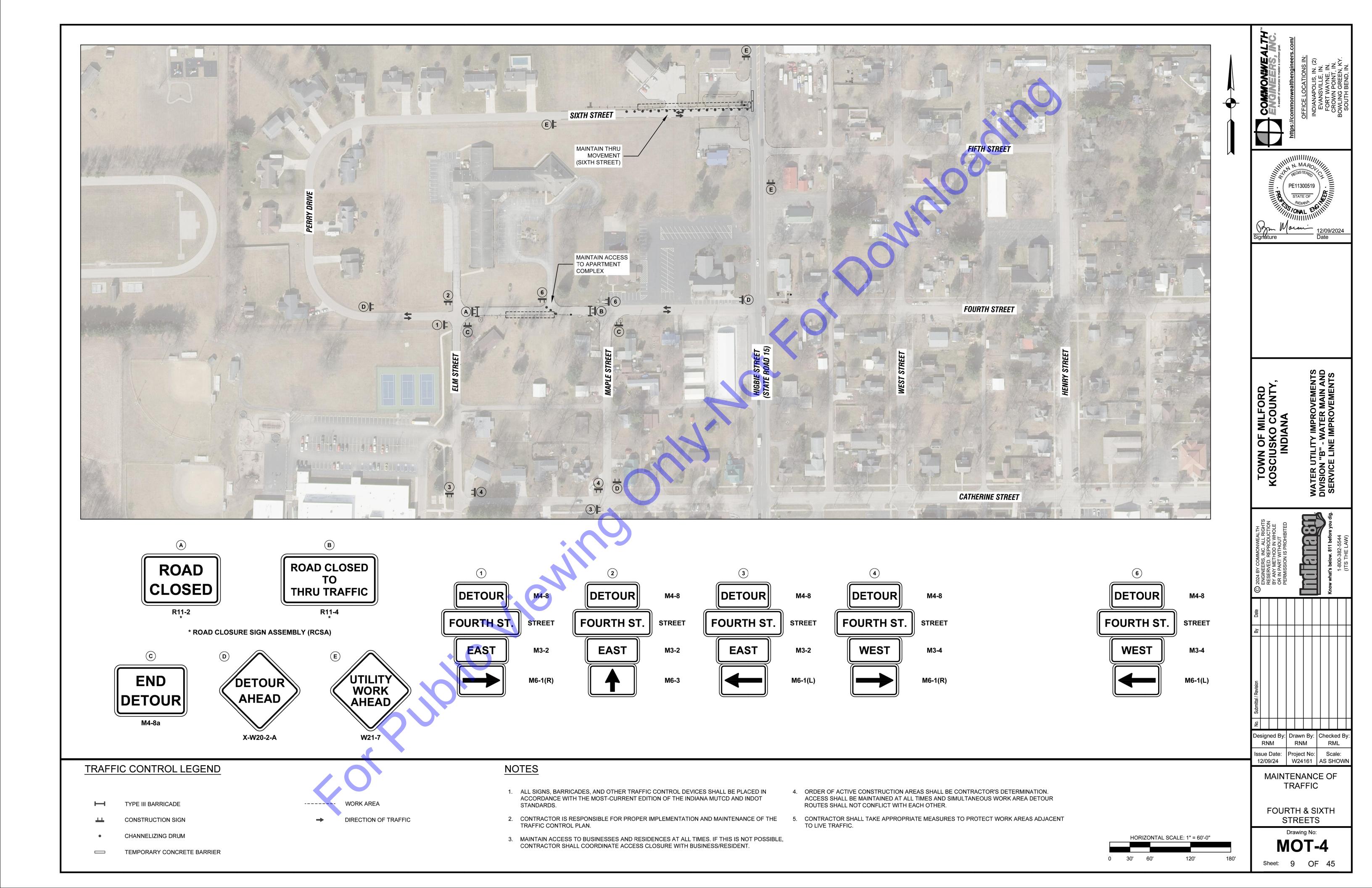
SURVEY DATA

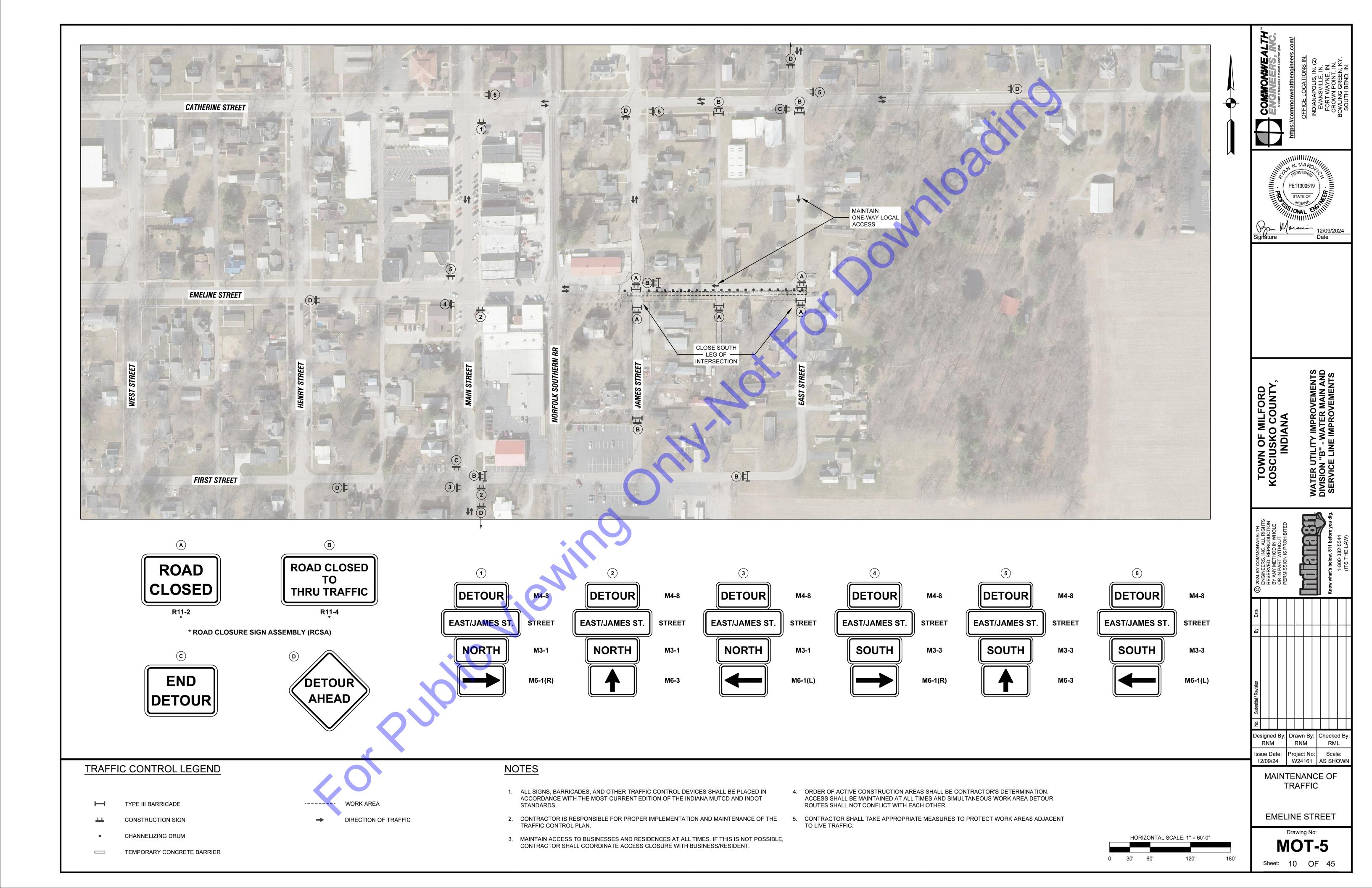


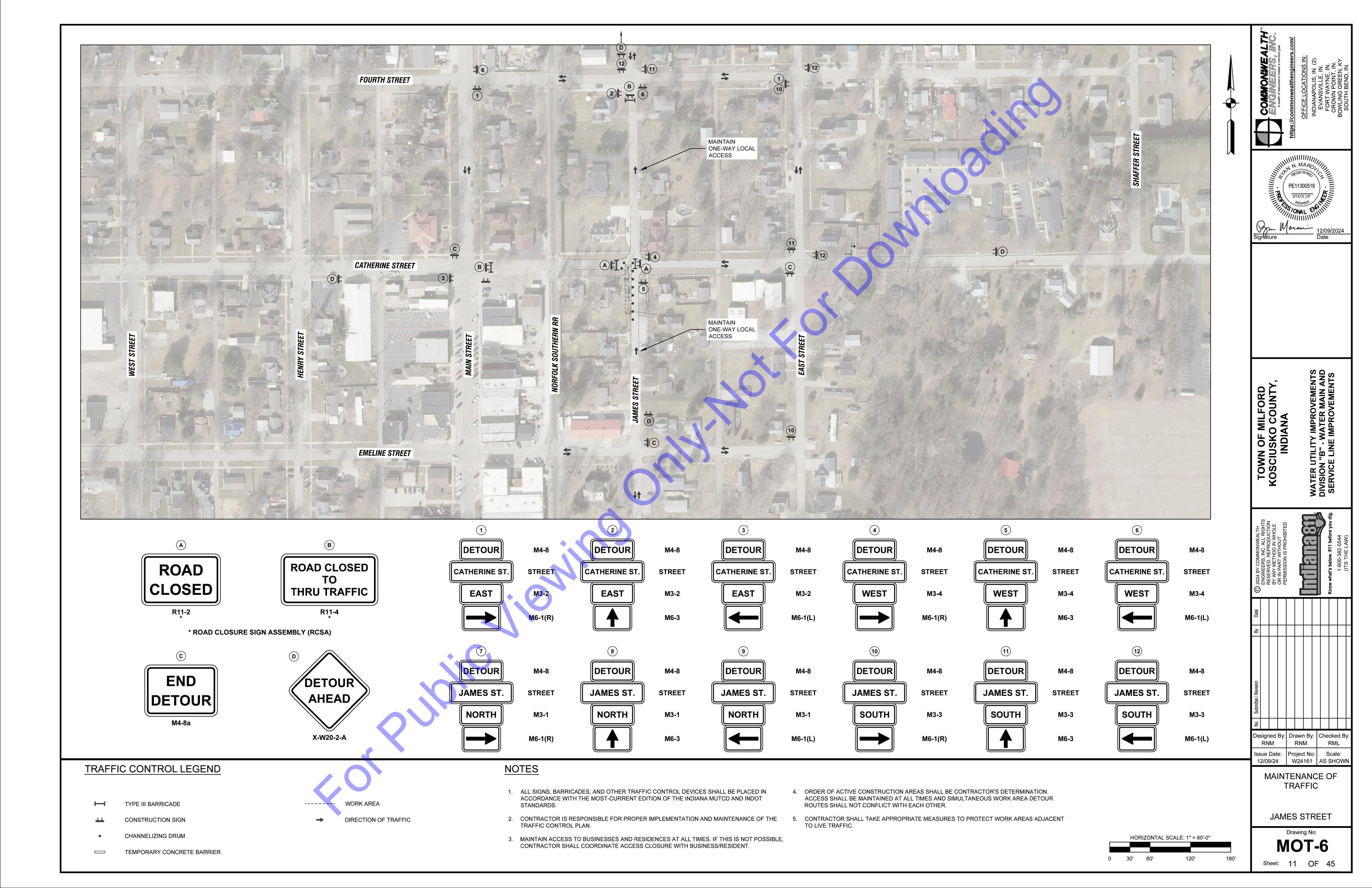


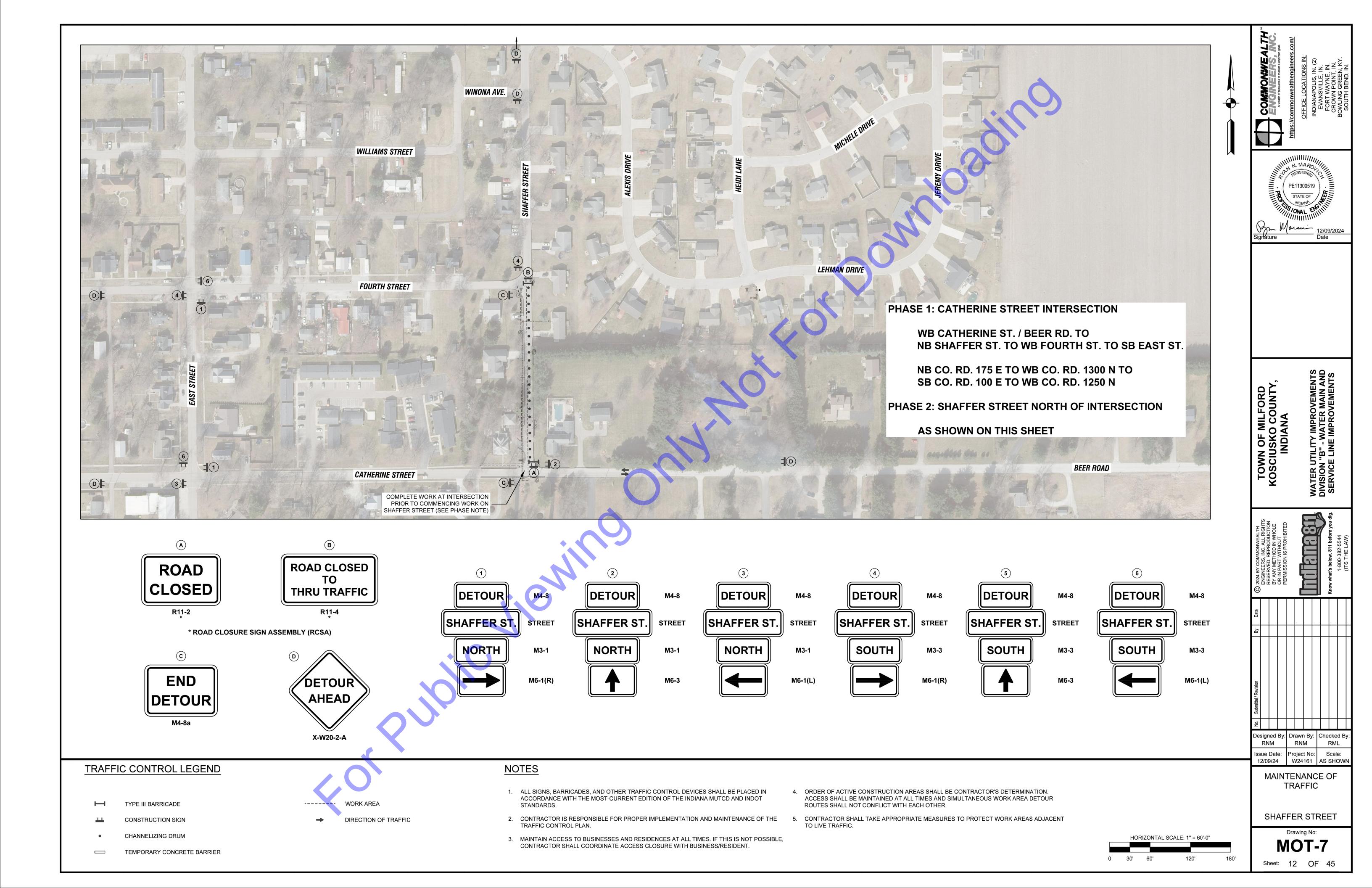


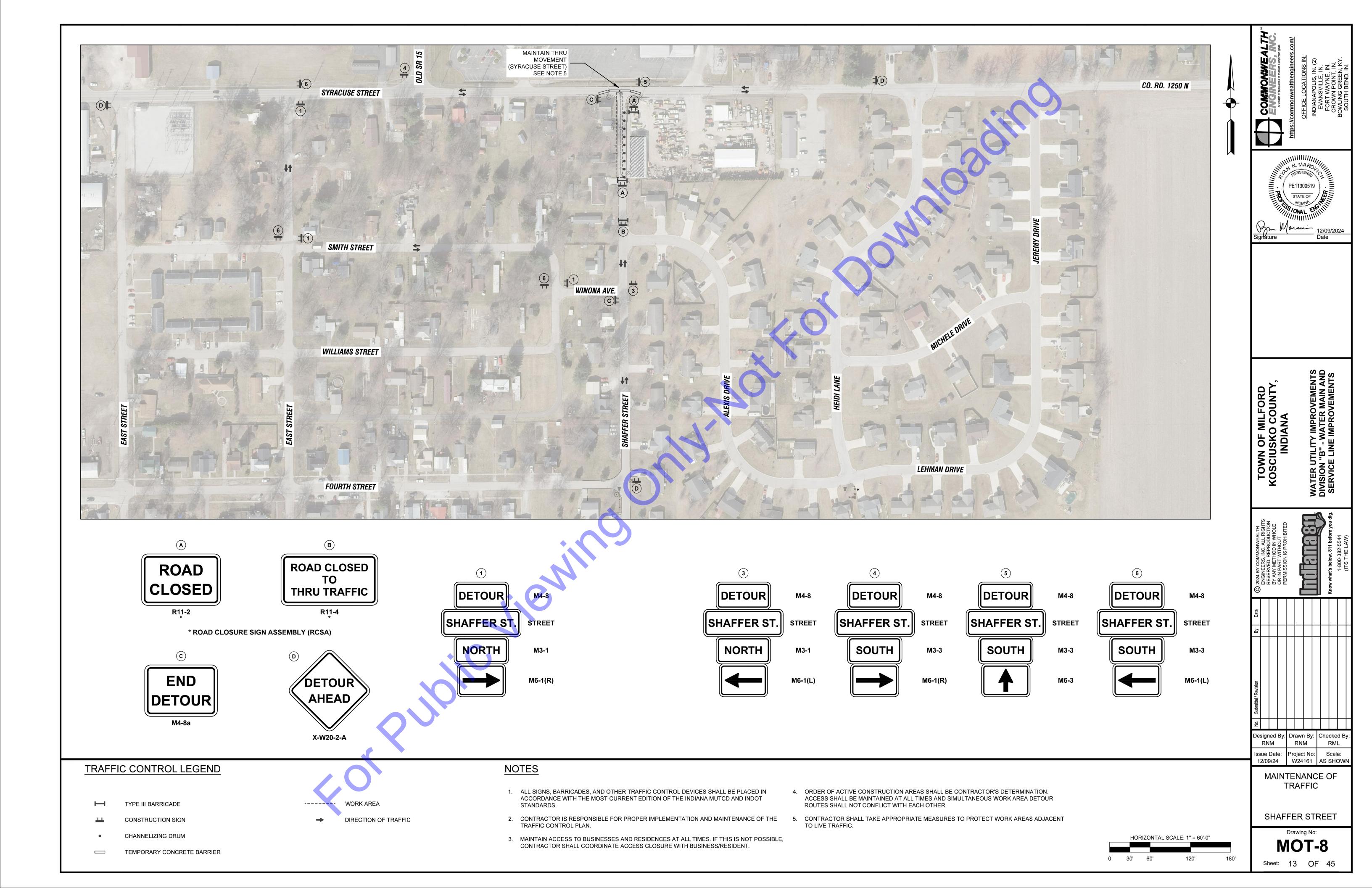


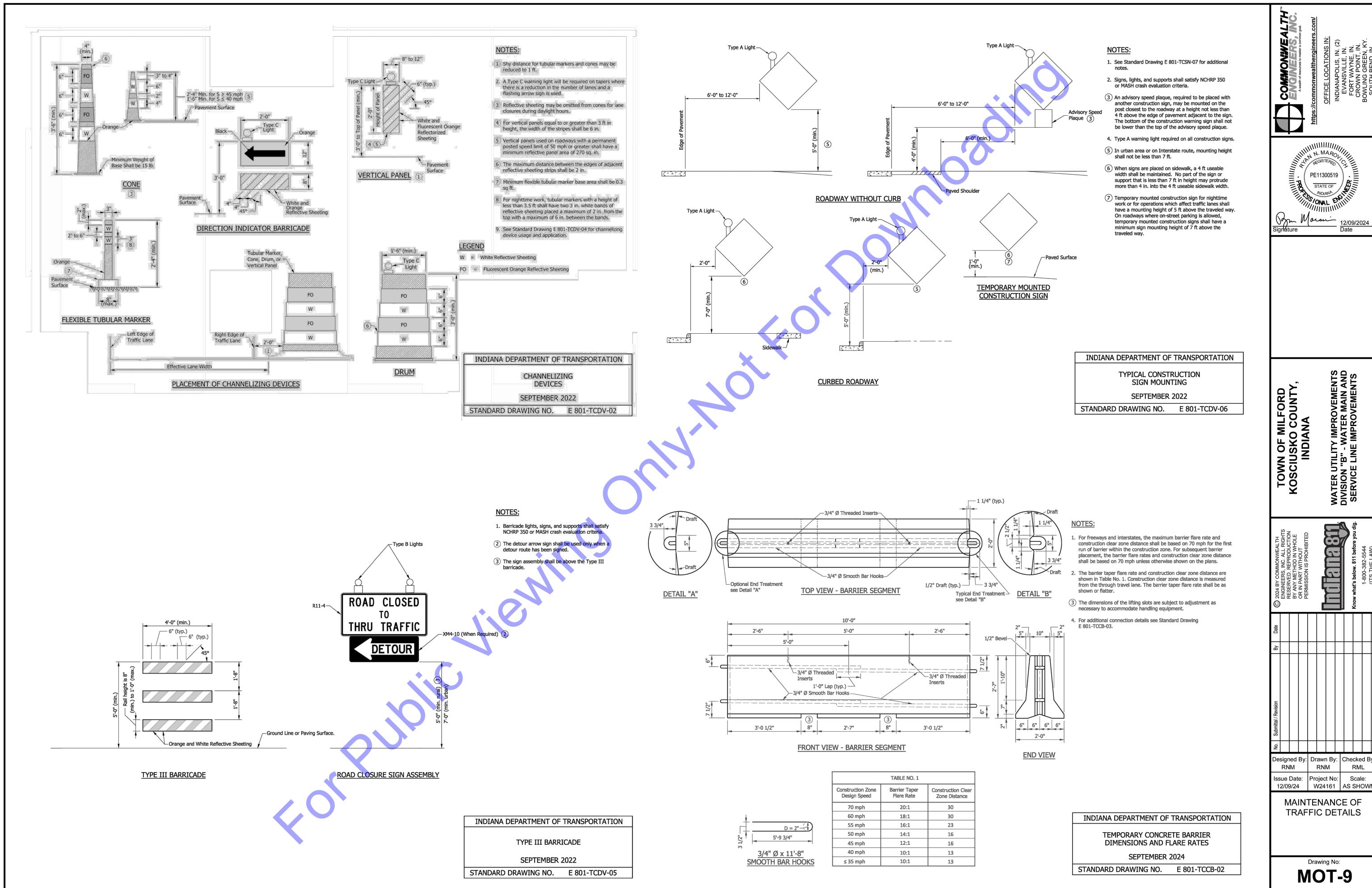


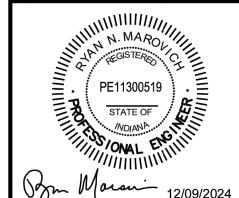




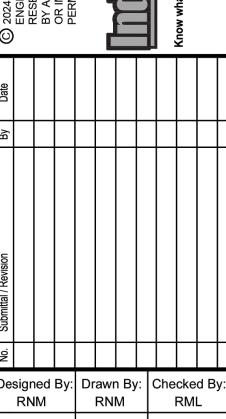








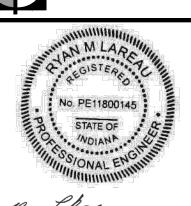
WATER UTILITY IMPROVEMENTS DIVISION "B" - WATER MAIN AND SERVICE LINE IMPROVEMENTS



MAINTENANCE OF TRAFFIC DETAILS

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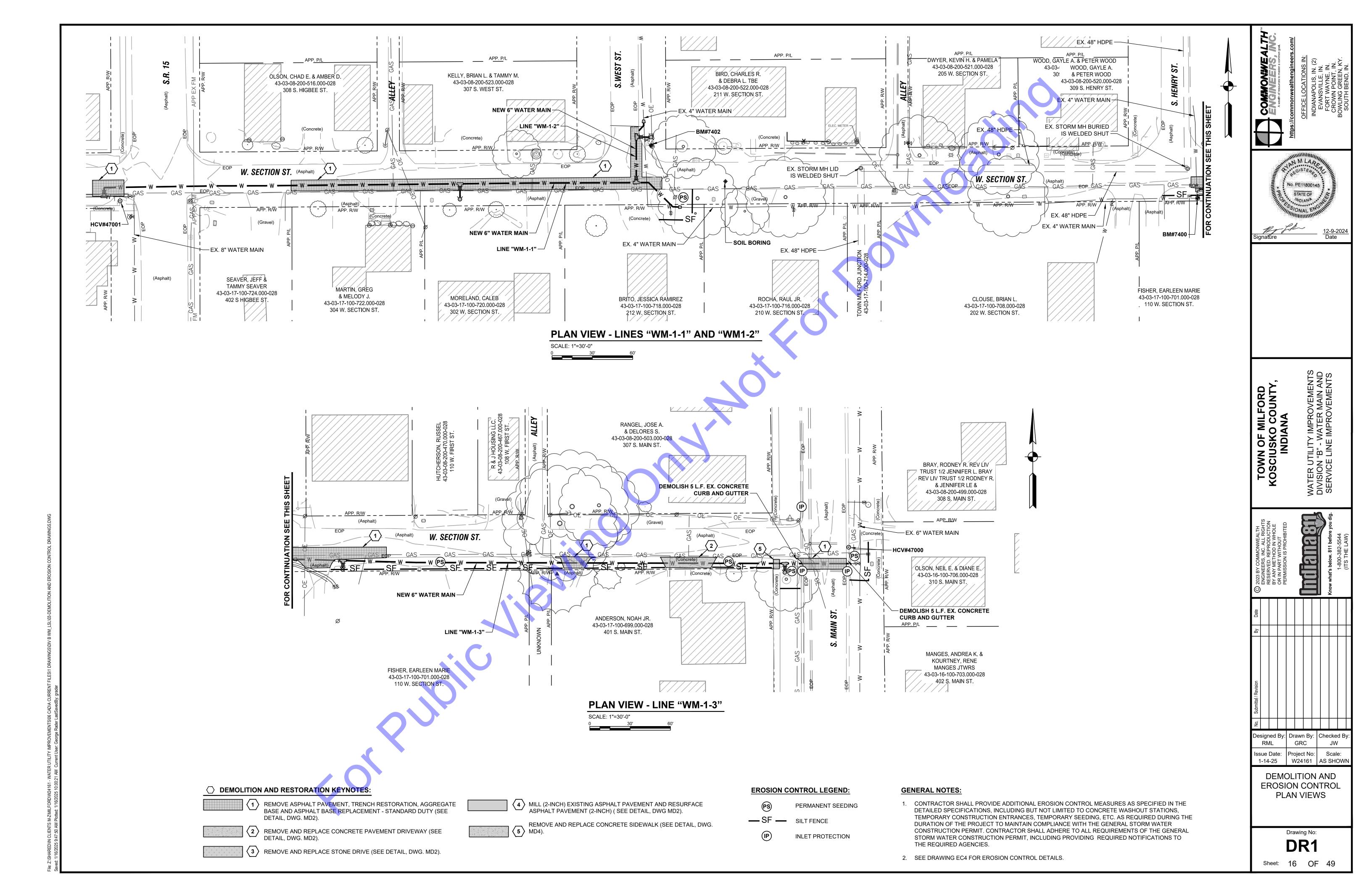


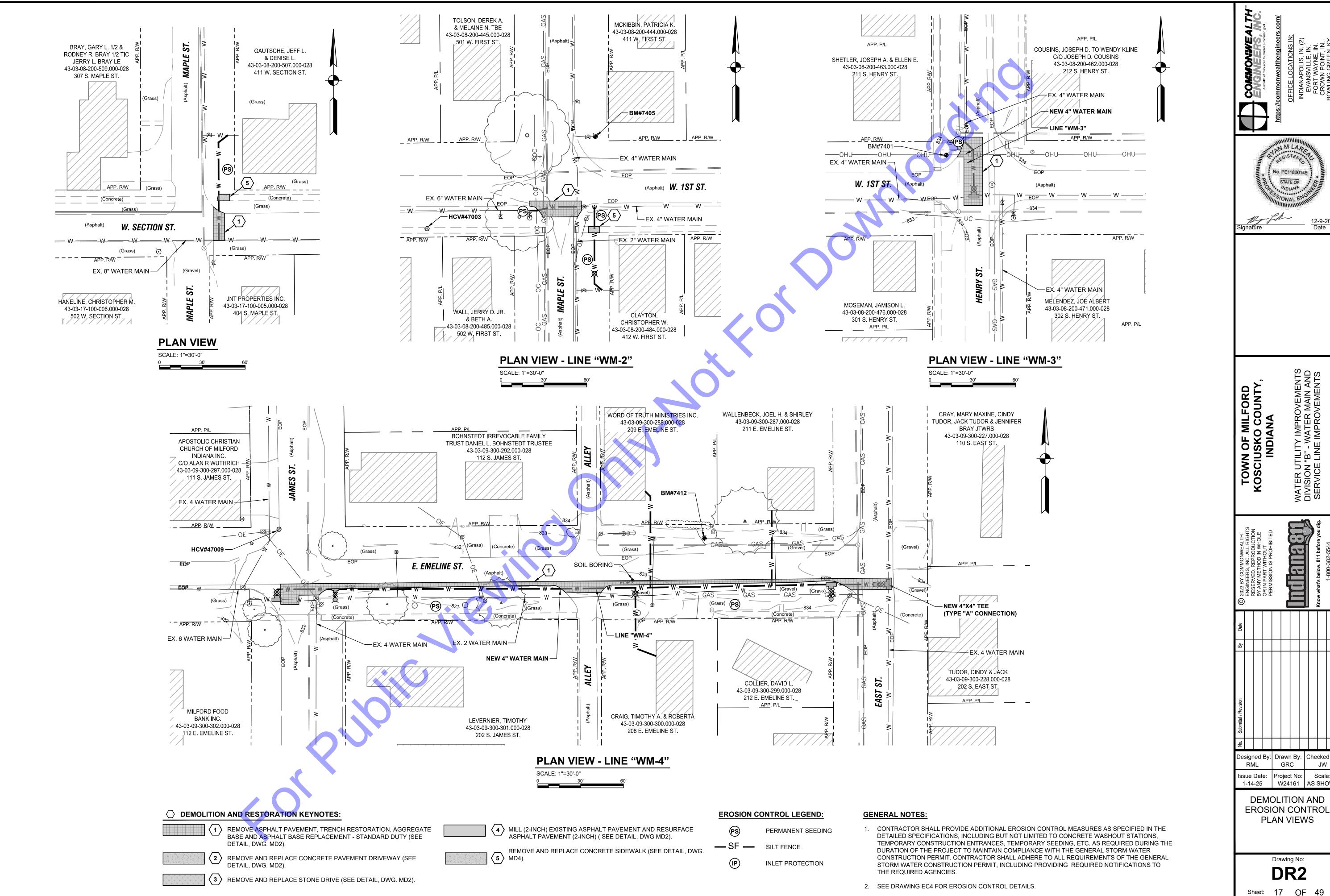
Issue Date: Project No: Scale: 1-14-25 W24161 AS SHOWN

DEMOLITION AND EROSION CONTROL DRAWING INDEX

> Drawing No: DR0

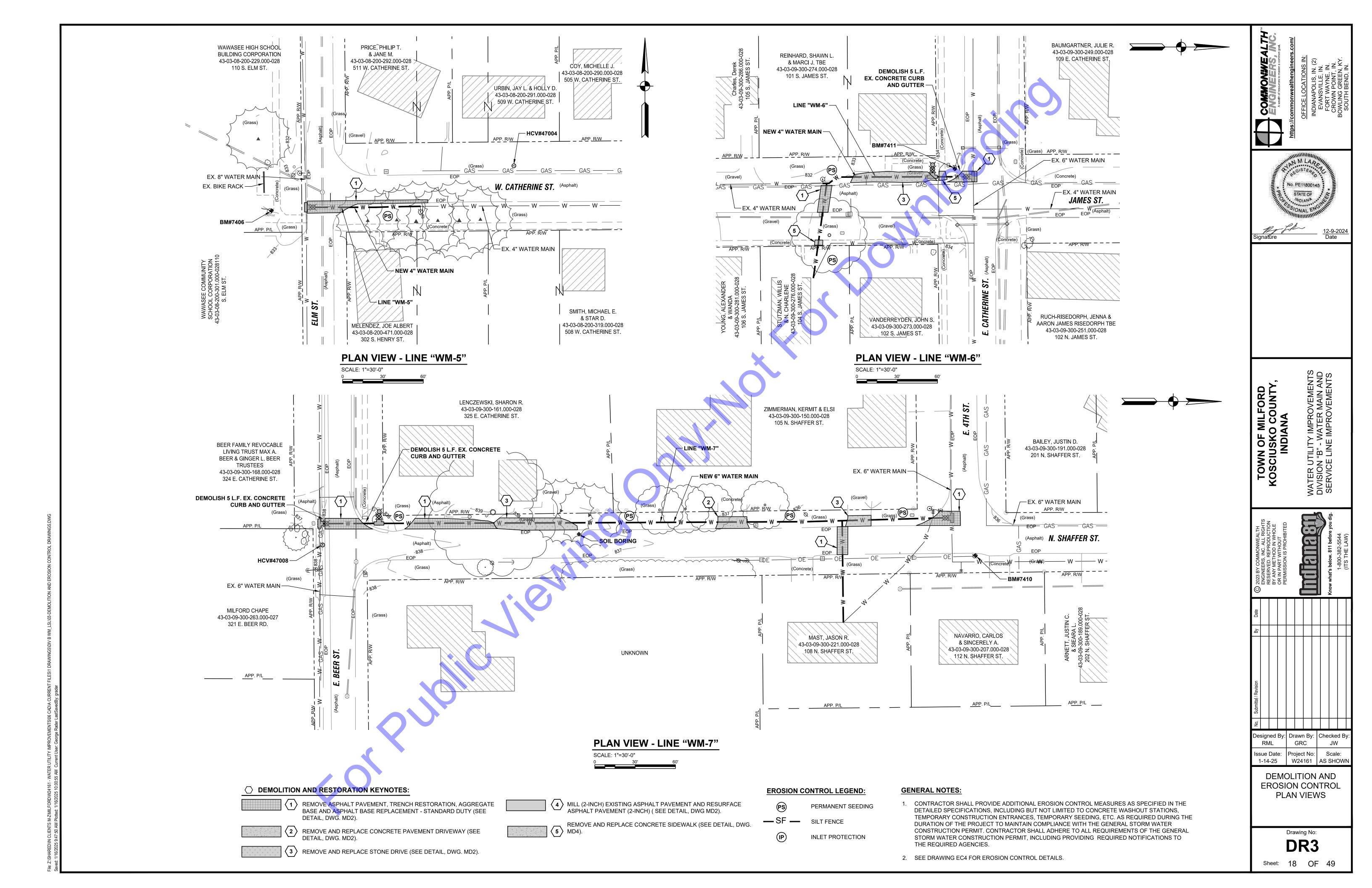
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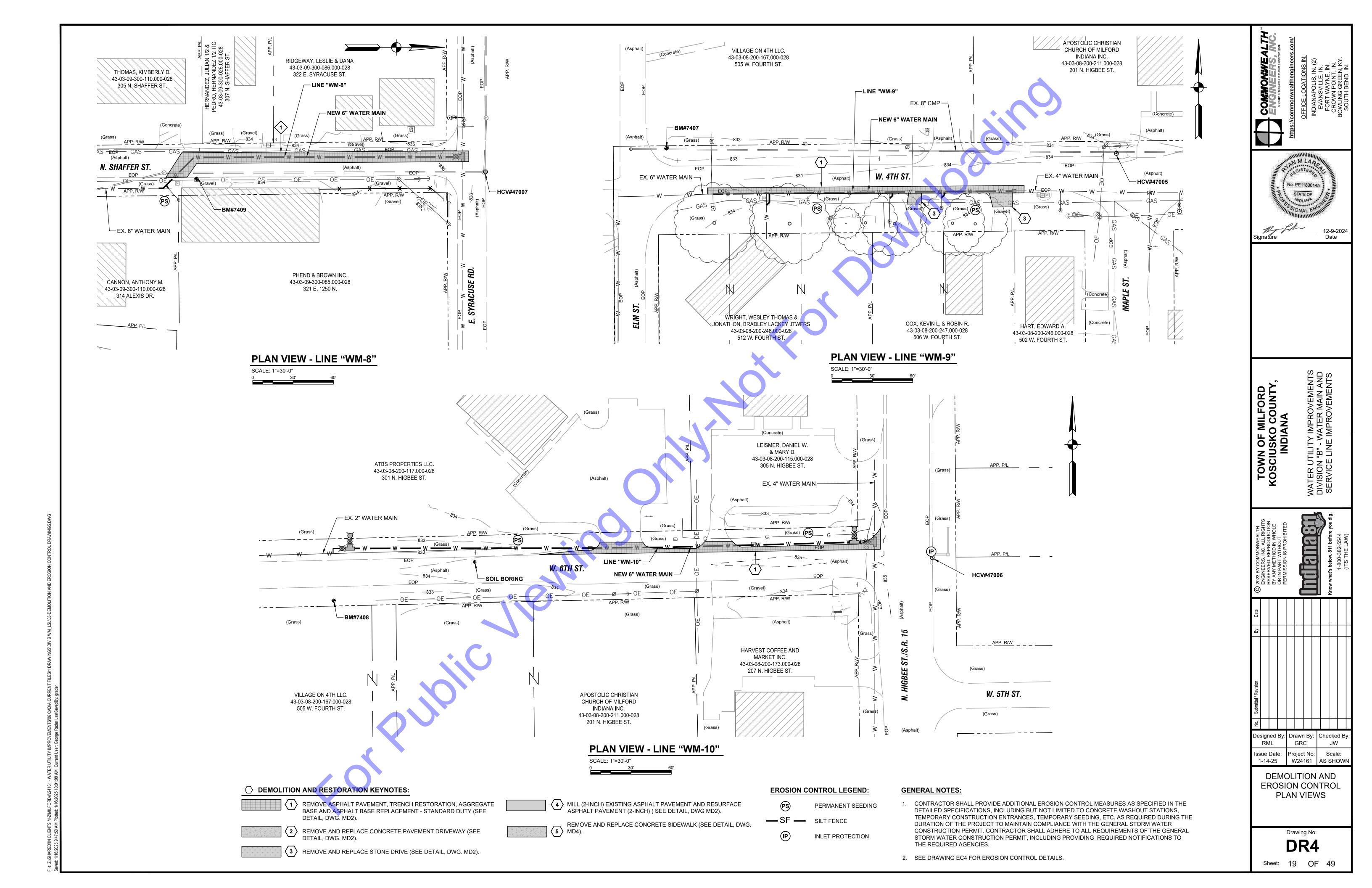




Designed By:| Drawn By: | Checked By

sue Date: Project No: Scale: 1-14-25 | W24161 | AS SHOWN DEMOLITION AND





THIS DOCUMENT REPRESENTS THE PLAN INDEX. THE CONTENT IS ORGANIZED AROUND THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT CONSTRUCTION STORMWATER GENERAL PERMIT CONSTRUCTION/STORMWATER POLLUTION PREVENTION PLAN DEVELOPMENT GUIDANCE. DETAILS ARE SPECIFIC TO THE MILFORD WATER UTILITY IMPROVEMENTS CONSTRUCTION, DIVISION A AND DIVISION B.

### A2 A VICINITY MAP DEPICTING THE PROJECT SITE LOCATION IN RELATIONSHIP TO RECOGNIZABLE LOCAL LANDMARKS, **TOWNS AND MAJOR ROADS:**

THIS INFORMATION HAS BEEN INCLUDED AND IS SHOWN IN THE PLANS. A USGS SITE MAP ILLUSTRATING THE APPROXIMATE EXTENT OF THE PROJECT IS ALSO SHOWN IN THE PLANS. ALL CONSTRUCTION WILL TAKE PLACE IN EXISTING RIGHTS-OF-WAY OR REGULATED DRAIN EASEMENTS.

### A3 NARRATIVE OF THE NATURE AND PURPOSE OF THE PROJECT:

THE TOWN OF MILFORD SUFFERS FROM LOW PRESSURE, FLOW AND WASTEWATER SYSTEM CONNECTIVITY. THIS PROJECT AIMS TO IMPROVE THESE CONDITIONS AND REPLACE SERVICE LINES THAT HAVE BEEN DETERMINED TO CONTAIN LEAD OR CONNECTIONS CONTAINING LEAD. THIS PROJECT IS SEPARATED INTO TWO DIVISIONS, DIVISION A, THE NEW WASTEWATER TREATMENT FACILITY, AND DIVISION B, THE LEAD SERVICE LINE REPLACEMENTS. BOTH ARE INCLUDED IN THIS SWPPP.

THE PROPOSED PROJECT IS SHOWN IN THE PLAN SHEETS. THE GENERAL LOCATION OF THE PROJECT IS SHOWN ON A USGS TOPOGRAPHIC MAP IN THE PLANS.

### A4 LATITUDE AND LONGITUDE TO THE NEAREST FIFTEEN (15) SECONDS:

THIS APPROXIMATE LATITUDE AND LONGITUDE FOR THE PROJECT SITE IS 39.80688°. -86.16814°, AND -86.16753°, 39.79640°. THE PROJECT IS SPREAD THROUGHOUT THE TOWN OF MILFORD AND THESE COORDINATES MARK THE NORTH AND SOUTH EDGES OF THIS PROJECT.

### **A5 LEGAL DESCRIPTION OF THE PROJECT SITE:**

THERE ARE 6 SEPARATE PLANNING AREAS FOR THIS PROJECT. THEY INCLUDE THE FOLLOWING: ALONG E. SARACUSE RD FROM TWO HUNDRED (200) FEET NORTH OF E. BEER RD., E. BEER RD, S.R 15 ALONG E. BEER RD, S.R. 15 EAST OF N. ORN RD, S.R. 15 NORTH OF N. ORN RD AND S.R. 15 SOUTH OF C.R. W 1250 N . LATITUDE AND LONGITUDE ARE SHOWN IN TABLE 1 BELOW.

### A6 11X 17-INCH PLAT SHOWING BUILDING LOT NUMBERS/BOUNDARIES AND ROAD LAYOUT/NAMES:

ALL LOT BOUNDARIES AND ROAD NAMES ARE SHOWN ON THE PLANS. ALL CONSTRUCTION WILL TAKE PLACE IN EXISTING RIGHT OF WAYS, UTILITY EASEMENTS, OR LAND OWNED BY THE TOWN. A USGS MAP ILLUSTRATING THE APPROXIMATE EXTENT OF THE PROJECT IS SHOWN IN THE PLANS.

### A7 BOUNDARIES OF THE ONE HUNDRED (100) YEAR FLOODPLAINS, FLOODWAY FRINGES, AND FLOODWAYS:

THE FLOODPLAINS, FLOODWAY FRINGES, AND FLOODWAYS LOCATED WITHIN THE PROJECT AREA ARE SHOWN IN EXHIBIT #1. NONE OF THE PROPOSED WORK IS WITHIN THE FLOODWAY.

### **A8 LAND USE OF ALL ADJACENT PROPERTIES:**

LAND USE AT THE PROJECT SITE AND THE SURROUNDING AREAS IS SHOWN IN EXHIBIT #2. LAND USE IN THE PROJECT SITE IS PRIMARILY CULTIVATED CROPS, HAY/PASTURE, AND DEVELOPED LOW INTENSITY. LAND USE ADJACENT TO THE PROJECT AREAS INCLUDES CULTIVATED CROPS, DECIDUOUS FOREST, AND DEVELOPED LOW INTENSITY.

### A9 IDENTIFICATION OF A U.S. EPA APPROVED OR ESTABLISHED TMDL:

THE PROJECT AREA IS LOCATED WITHIN THE TURKEY CREEK (HUC 12) WATERSHED. TURKEY CREEK IS INCLUDED IN THE TURKEY CREEK APPROVED TMDL FOR E. COLI.

### A10 NAME(S) OF THE RECEIVING WATER(S):

RUNOFF FROM THE PROJECT INTO THESE RECEIVING WATERS IS NOT ANTICIPATED; HOWEVER, PROPER MEASURES WILL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE CREEK AND TO PREVENT ANY CONVEYANCE OF SEDIMENT TO TURKEY CREEK.

## A11 IDENTIFICATION OF DISCHARGES TO A WATER ON THE CURRENT 303(D) LIST OF IMPAIRED WATERS AND THE POLLUTANT

TURKEY CREEK IS NOT ON THE CURRENT 303(D) LIST OF IMPAIRED WATERS.

## A12SOILS MAP OF THE PREDOMINATE SOIL TYPES:

THE SOILS MAP FOR THIS PROJECT IS SHOWN IN EXHIBIT #3. THE SOILS IN THE PROJECT AREA CONSIST MAINLY OF "ORA" "ORMAS LOAMY SAND." WHICH HAS SLOPES BETWEEN 0 AND 2 PERCENT, "KOA," "KOSCIUSKO SANDY LOAM," WHICH HAS SLOPES BETWEEN 0 AND 2 PERCENT, AND "GO," "GRAVELTON LOAMY SAND," WHICH OCCASIONALLY FLOODS.

CONSTRUCTION PROJECTS ARE NOT EXPECTED TO HAVE ANY DETRIMENTAL, LONG-TERM IMPACTS ON THE SOIL. SHORT TERM IMPACTS WILL RELATE ONLY TO EXCAVATION ACTIVITIES FOR THE PROPOSED SYSTEM IMPROVEMENTS AND WILL BE MINIMAL. THESE IMPACTS CAN BE MITIGATED USING APPROPRIATE TECHNIQUES FOR EROSION CONTROL AND SURFACE RESTORATION DURING AND AFTER CONSTRUCTION.

SEASONAL WETNESS IS LIKELY TO BE THE MAIN LIMITATION OF THE SOIL IN THE CONSTRUCTION AREA. FOR THIS PROJECT, CONSTRUCTION PROBLEMS ASSOCIATED WITH WET SOILS WILL BE BEST OVERCOME BY COMPLETING OPEN EXCAVATION WORK DURING FAVORABLE CONDITIONS AND COORDINATING WORK ACTIVITIES BASED UPON WEATHER AND SOIL CONDITIONS. UNDER SEVERE SOIL WETNESS CONDITIONS, QUICKLIME MAY BE USED TO HELP DRY WET SOILS FOR SITE ACCESS PURPOSES AND TO REDUCE DOWNTIME. THE DEPTH TO WATER TABLE IN THE PROJECT AREA VARIES SIGNIFICANTLY, FROM 0 CM TO GREATER THAN 200 CM.

### A13 IDENTIFICATION AND LOCATION OF ALL KNOWN WETLANDS, LAKES, AND WATER COURSES ON OR ADJACENT TO THE PROJECT SITE (CONSTRUCTION PLAN, EXISTING LAYOUT):

ALL WETLANDS, LAKES, AND WATER COURSES LOCATED WITHIN AND NEARBY THE PROJECT AREA HAVE BEEN IDENTIFIED AND ARE SHOWN IN **EXHIBIT #4** AND **#5**. THE MAJOR WATERWAY IN THE PROJECT AREA IS TURKEY CREEK. STORMWATER DERIVED FLOW WILL NOT DRAIN INTO TURKEY CREEK. THERE ARE TWO WETLANDS ADJACENT TO THE PROJECT SITE; HOWEVER, NO WORK IS PROPOSED WITHIN THE WETLANDS, ONLY ON RESIDENTIAL PROPERTY AND ROADWAYS NEARBY.

### A14 IDENTIFICATION OF ANY OTHER STATE OR FEDERAL WATER QUALITY PERMITS OR AUTHORIZATIONS THAT ARE REQUIRED FOR CONSTRUCTION ACTIVITIES:

THIS PROJECT WILL NOT REQUIRE AN IDEM 401 WQC AS WELL AS NOTIFICATION TO THE USACE. NO DNR CONSTRUCTION IN A FLOODWAY PERMIT IS REQUIRED. ALL WATER QUALITY PERMITS DETERMINED TO BE REQUIRED BY THE PROJECT WILL BE OBTAINED PRIOR TO THE START OF CONSTRUCTION.

### A15 IDENTIFICATION AND DELINEATION OF EXISTING VEGETATIVE COVER, INCLUDING NATURAL BUFFERS:

LAND USE AT THE PROJECT SITE AND THE SURROUNDING AREAS IS SHOWN IN EXHIBIT #2. MOST OF THE LAND USE IN THE PROJECT CONSTRUCTION AREA IS DEVELOPED LAND FOR COMMERCIAL AND RESIDENTIAL PROPERTIES AND WITHIN THE UPSTREAM WATERSHED IS AGRICULTURAL. LAND USE ADJACENT TO THE PROJECT AREAS INCLUDES CULTIVATED CROPS. GRASSLANDS, AND WOODY WETLANDS. THIS PROJECT INVOLVES THE INSTALLATION OF STORM SEWER FACILITIES ON ROAD RIGHT-OF-WAY, UTILITY EASEMENTS, AND TOWN OWNED PROPERTY. PROPER TECHNIQUES FOR EROSION CONTROL AND SURFACE RESTORATION, INCLUDING STABILIZATION WITH APPROPRIATE VEGETATIVE COVER, WILL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN DS-09 "TEMPORARY EROSION CONTROL" AND WM-24 "SEEDING AND SODDING," BOTH UNDER SEPARATE ATTACHMENT.

### A16 EXISTING SITE TOPOGRAPHY AT AN INTERVAL APPROPRIATE TO SHOW DETAILED DRAINAGE PATTERNS:

A USGS TOPOGRAPHIC MAP IS SHOWN IN THE PLANS. MORE DETAILED CONTOUR LINES ARE ALSO SHOWN ON INDIVIDUAL PLAN SHEETS TO INDICATE DRAINAGE PATTERNS WITHIN THE CONSTRUCTION LIMITS.

### A17 LOCATION(S) WHERE RUN-OFF ENTERS THE PROJECT SITE:

A USGS TOPOGRAPHIC MAP IS SHOWN IN THE PLANS. MORE DETAILED CONTOUR LINES ARE ALSO SHOWN ON INDIVIDUAL PLANS SHEETS TO INDICATE DRAINAGE PATTERNS WITHIN THE CONSTRUCTION LIMITS.

### A18 LOCATION(S) WHERE RUN-OFF DISCHARGES FROM THE PROJECT SITE PRIOR TO LAND DISTURBANCE:

A USGS TOPOGRAPHIC MAP IS SHOWN IN THE PLANS. MORE DETAILED CONTOUR LINES ARE ALSO SHOWN ON INDIVIDUAL PLAN SHEETS TO INDICATE DRAINAGE PATTERNS WITHIN THE CONSTRUCTION LIMITS.

### A19 LOCATION OF ALL EXISTING STRUCTURES ON THE PROJECT SITE:

THE LOCATION OF ALL EXISTING STRUCTURES ON THE PROJECT SITE CAN BE SEEN IN THE PLANS

### A20 EXISTING PERMANENT RETENTION OR DETENTION FACILITIES, INCLUDING MANMADE WETLANDS, DESIGNED FOR THE **PURPOSE OF STORMWATER MANAGEMENT:**

THERE IS NO EXISTING PERMANENT RETENTION OR DETENTION FACILITIES LOCATED WITHIN THE PROJECT AREA(S).

### A21 LOCATIONS WHERE STORMWATER MAY BE DIRECTLY DISCHARGED INTO GROUND WATER, SUCH AS ABANDONED WELLS, SINKHOLES, OR KARST FEATURES:

THERE ARE TWO ABANDONED WELLS LOCATED ADJACENT TO THE WATER TREATMENT FACILITY, BUT THERE ARE NO SINKHOLES, OR KARST FEATURES LOCATED WITHIN THE PROJECT AREA.

### **A22 SIZE OF THE PROJECT AREA EXPRESSED IN ACRES:**

THE TOTAL PROJECT AREA IS APPROXIMATELY 43 ACRES

### A23 TOTAL EXPECTED LAND DISTURBANCE EXPRESSED IN ACRES:

THE TOTAL EXPECTED LAND DISTURBANCE FOR THE PROJECT IS APPROXIMATELY 2.33 ACRES

### A24 PROPOSED FINAL TOPOGRAPHY:

THE INDIVIDUAL PLAN SHEETS SHOW PROPOSED SITE TOPOGRAPHY AND DRAINAGE PATTERNS.

### A25 LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS:

THE PLANS SHOW THE LOCATIONS AND BOUNDARIES OF ALL DISTURBED AREAS/CONSTRUCTION LIMITS

### A26 LOCATIONS, SIZE AND DIMENSIONS OF ALL STORMWATER DRAINAGE SYSTEMS SUCH AS CULVERTS, STORMWATER SEWER, AND CONVEYANCE CHANNEL:

THE EXISTING AND PROPOSED STORMWATER DRAINAGE SYSTEMS ARE SHOWN ON THE PLANS. ALL EXISTING STORMWATER SYSTEMS WILL BE PROTECTED AND MAINTAINED DURING CONSTRUCTION. IF DURING CONSTRUCTION ANY DAMAGE IS DONE TO AN EXISTING STORMWATER SYSTEM, DAMAGED STRUCTURES WILL BE EITHER REPAIRED OR REPLACED TO EQUAL OR BETTER CONDITION THAN EXISTING.

### A27 LOCATIONS OF SPECIFIC POINTS WHERE STORMWATER AND NON-STORMWATER DISCHARGES WILL LEAVE THE PROJECT SITE:

LOCATIONS WHERE STORMWATER AND NON-STORMWATER DISCHARGES WILL LEAVE THE PROJECT SITE CAN BE SEEN ON THE PLANS.

### A28 LOCATION OF ALL PROPOSED SITE IMPROVEMENTS. INCLUDING ROADS, UTILITIES, LOT DELINEATION AND IDENTIFICATION, PROPOSED STRUCTURES, AND COMMON AREAS

LOCATIONS OF ALL PROPOSED SITE IMPROVEMENTS, INCLUDING PROPOSED UTILITIES, STRUCTURES, AND LOT BOUNDARIES, ARE SHOWN ON THE PLANS. NO OFF-SITE CONSTRUCTION IS ANTICIPATED FOR THIS PROJECT.

### A29 LOCATIONS OF ALL ON-SITE AND OFF-SITE SOIL STOCKPILES AND BORROW AREAS:

STOCKPILES LEFT INACTIVE FOR SEVEN (7) DAYS OR MORE SHALL BE STABILIZED WITH TEMPORARY SEED AND SURROUNDED BY SILT FENCE OR OTHER PERIMETER CONTROLS ALL STOCKPILES AND BORROW AREAS. IF REQUIRED FOR THE PROJECT, WILL BE LOCATED ON-SITE AND THE CONTRACTOR WILL BE REQUIRED TO OBTAIN A PERMIT OR RELEASE FOR PROPER DISPOSAL OF EXCAVATED MATERIALS.

### A30 CONSTRUCTION SUPPORT ACTIVITIES THAT ARE EXPECTED TO BE PART OF THE PROJECT:

CONCRETE WASHOUT AREAS ARE EXPECTED TO BE PART OF THE PROJECT.

### A31 LOCATION OF ANY IN-STREAM ACTIVITIES THAT ARE PLANNED FOR THE PROJECT INCLUDING, BUT NOT LIMITED TO, STREAM CROSSINGS AND PUMP AROUNDS:

NOT APPLICABLE. NO WORK IN STREAMS IS ANTICIPATED.

### STORMWATER POLLUTION PREVENTION PLAN - CONSTRUCTION COMPONENT (SECTION B)

STORMWATER POLLUTION PREVENTION MEASURES SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AUTHORITY AND THE APPLICABLE MS4 STORMWATER QUALITY STANDARDS.

### B1 DESCRIPTION OF THE POTENTIAL POLLUTANT GENERATING SOURCES AND POLLUTANTS, INCLUDING ALL POTENTIAL **NON-STORMWATER DISCHARGES:**

POTENTIAL POLLUTANTS <u>OPERATION</u> CLEARING, GRADING, EXCAVATING SEDIMENT, DEBRIS SOIL STOCKPILES SEDIMENT

DEWATERING OPERATIONS PAVING REPAIR SEDIMENT, DEBRIS VEHICLE FUELING, MAINTENANCE OIL, GREASE, FUEL

GENERAL CONSTRUCTION ACTIVITY TRASH, SANITATION CHEMICALS PAVEMENT RESTORATION **BITUMINOUS DEBRIS** 

SEDIMENT

### EXCAVATION, STOCKPILING:

STOCKPILE MANAGEMENT PROCEDURES AND PRACTICES WILL BE IMPLEMENTED TO MINIMIZE OR ELIMINATE THE DISCHARGE OF STOCKPILED MATERIAL (SOIL, TOPSOIL, BASE MATERIAL) FROM ENTERING DRAINAGE SYSTEMS OR SURFACE WATERS.

FOR ANY STOCKPILES OR LAND CLEARING DEBRIS COMPOSED, IN WHOLE OR IN PART, OF SEDIMENT OR SOIL, THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH THE FOLLOWING REQUIREMENTS:

1. LOCATE PILES WITHIN THE DESIGNATED LIMITS OF DISTURBANCE.

2. PROTECT FROM CONTACT WITH STORMWATER USING A TEMPORARY PERIMETER SEDIMENT BARRIER.

- 3. WHERE PRACTICABLE, PROVIDE COVER OR APPROPRIATE TEMPORARY VEGETATIVE OR STRUCTURAL STABILIZATION TO AVOID DIRECT CONTACT WITH PRECIPITATION OR TO MINIMIZE THE DISCHARGE OF SEDIMENTS.
- 4. NEVER HOSE DOWN OR SWEEP SOIL OR SEDIMENT ACCUMULATED ON PAVEMENT OR OTHER IMPERVIOUS SURFACES INTO ANY STORMWATER CONVEYANCE, STORM DRAIN INLET, OR SURFACE WATER.
- 5. TO THE MAXIMUM EXTENT PRACTICABLE, CONTAIN AND SECURELY PROTECT STOCKPILES FROM WIND.

### **DEWATERING:**

EQUIPMENT OPERATORS ARE PROHIBITED FROM DISCHARGING GROUNDWATER OR ACCUMULATED STORMWATER THAT IS REMOVED FROM EXCAVATIONS, TRENCHES, VAULTS, OR OTHER SIMILAR POINTS OF ACCUMULATION, UNLESS SUCH WATERS ARE FIRST EFFECTIVELY MANAGED BY APPROPRIATE CONTROL MEASURES.

EXAMPLES OF APPROPRIATE CONTROL MEASURES INCLUDE TEMPORARY SEDIMENT BASINS OR SEDIMENT TRAPS, SEDIMENT SOCKS, DEWATERING TANKS AND BAGS, OR FILTRATION SYSTEMS (E.G., BAG OR SAND FILTERS) THAT ARE DESIGNED TO REMOVE SEDIMENT, UNCONTAMINATED, NON-TURBID DEWATERING WATER CAN BE DISCHARGED WITHOUT BEING ROUTED TO A CONTROL.

AT A MINIMUM, THE FOLLOWING DISCHARGE REQUIREMENTS MUST BE MET FOR DEWATERING ACTIVITIES:

1. ALLOW NO DISCHARGE OF VISIBLE SEDIMENT OR SOLIDS.

### 2. AT ALL POINTS WHERE DEWATERING WATER IS DISCHARGED, UTILIZE VELOCITY DISSIPATION DEVICES

3. DEWATERING PRACTICES MUST INVOLVE THE IMPLEMENTATION OF APPROPRIATE CONTROL MEASURES AS APPLICABLE (I.E., CONTAINMENT AREAS FOR DEWATERING EARTH MATERIALS, PORTABLE SEDIMENT TANKS AND BAGS, PUMPING SETTLING BASINS, AND PUMP INTAKE PROTECTION).

### VEHICLE FUELING:

VEHICLE FUELING SHALL NOT TAKE PLACE WITHIN REGULATED DRAIN AREAS WETLANDS OR BUFFER ZONE AREAS, OR WITHIN 50-FEET OF THE STORM DRAIN SYSTEM. DESIGNATED AREAS SHALL BE DEPICTED ON THE PLANS OR SHALL BE APPROVED BY THE SITE OWNER.

VEHICLE MAINTENANCE AND WASHING SHALL OCCUR OFF-SITE, OR IN DESIGNATED AREAS DEPICTED ON THE PLANS OR APPROVED OF BY THE SITE OWNER. MAINTENANCE OR WASHING AREAS SHALL NOT BE WITHIN REGULATED WETLANDS OR BUFFER ZONE AREAS, OR WITHIN 50-FEET OF THE STORM DRAIN SYSTEM. MAINTENANCE AREAS SHALL BE CLEARLY DESIGNATED, AND BARRIERS SHALL BE USED AROUND THE PERIMETER OF THE MAINTENANCE AREA TO PREVENT STORMWATER CONTAMINATION.

CONSTRUCTION VEHICLES SHALL BE INSPECTED FREQUENTLY FOR LEAKS. REPAIRS SHALL TAKE PLACE IMMEDIATELY. DISPOSAL OF ALL USED OIL, ANTIFREEZE, SOLVENTS, AND OTHER AUTOMOTIVE-RELATED CHEMICALS SHALL BE ACCORDING TO APPLICABLE REGULATIONS; AT NO TIME SHALL ANY MATERIAL BE WASHED DOWN THE STORM DRAIN OR INTO ANY ENVIRONMENTALLY SENSITIVE

AFTER THE SWPPP IS IMPLEMENTED, ALL DISTURBED AREAS WILL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS WHICH ARE TO BE COMPLETED BY A TRAINED INDIVIDUAL, IS TO ASSESS PERFORMANCE OF POLLUTANT CONTROL MEASURES. BASED ON THESE INSPECTIONS, IT WILL BE DETERMINED IF ADDITIONAL MEASURES ARE NECESSARY TO PREVENT POLLUTANTS FROM LEAVING THE SITE. THE CONTRACTOR WILL BE REQUIRED TO REPAIR, MODIFY, MAINTAIN, OR TAKE ADDITIONAL STEPS AS NECESSARY TO ACHIEVE EFFECTIVE POLLUTANT CONTROL. REFER ALSO TO DS-09, "TEMPORARY EROSION CONTROL" WHICH IS INCLUDED AS A PART OF THE CONSTRUCTION SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THE PROJECT AND IS LOCATED UNDER SEPARATE ATTACHMENT.

### **B2 STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS:**

THE PROJECT DOES REQUIRE A CONSTRUCTION ENTRANCE AS SHOWN IN DIVISION A PLAN SHEETS. DIVISION B DOES NOT REQUIRE A CONSTRUCTION ENTRANCE AS THE RIGHT-OF-WAY WILL BE UTILIZED. UPON COMPLETION OF CONSTRUCTION ALL SURFACES SHALL BE RESTORED TO MATCH PRE-CONSTRUCTION CONDITIONS. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE WILL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. AT THE END OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE EXISTING SURFACES ACTING AS CONSTRUCTION ENTRANCES/EXITS TO PRE-CONSTRUCTION CONDITIONS. REFER ALSO TO DS-09, "TEMPORARY EROSION CONTROL" FOR STABLE CONSTRUCTION ENTRANCE REQUIREMENTS (UNDER SEPARATE ATTACHMENT).

### B3 SPECIFICATIONS FOR TEMPORARY AND PERMANENT STABILIZATION:

TEMPORARY AND PERMANENT SEED SURFACE STABILIZATION WILL BE UTILIZED WHERE NEEDED. SEE DS-09, "TEMPORARY EROSION CONTROL" AND WM-24 "SEEDING AND SODDING" (LOCATED UNDER SEPARATE ATTACHMENT) FOR ADDITIONAL INFORMATION.

IN ORDER TO REDUCE THE EXTENT OF EXPOSED AREAS AND THE DURATION OF EXPOSURE, CLEARING, GRADING, AND VEGETATIVE RE-STABILIZATION MUST BE PROPERLY TIMED AND COORDINATED. SEEDING AND MULCHING OR TEMPORARY SEEDING WILL BE PERFORMED AS SOON AS PRACTICABLE ON AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION. UNVEGETATED AREAS THAT ARE LEFT IDLE OR SCHEDULED TO BE LEFT UNACTIVE MUST BE TEMPORARILY OR PERMANENTLY STABILIZED WITH MEASURES APPROPRIATE FOR THE SEASON TO MINIMIZE EROSION POTENTIAL. STABILIZATION MUST BE INITIATED BY THE END OF THE SEVENTH DAY THE AREA IS LEFT IDLE. THE STABILIZATION ACTIVITY MUST BE COMPLETED WITHIN FOURTEEN (14) DAYS AFTER INITIATION. INITIATION OF STABILIZATION INCLUDES SEEDING AND APPLYING MULCH OR OTHER TEMPORARY SURFACE STABILIZATION METHODS WHERE APPROPRIATE.

### **B4 SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS:**

PROTECTIVE MEASURES FOR AREAS OF CONCENTRATED FLOW WILL INCLUDE TEMPORARY AND PERMANENT VEGETATION, MULCHES, EROSION CONTROL BLANKETS, OR OTHER PRACTICES TO CORRESPOND WITH CONSTRUCTION ACTIVITIES. SEDIMENT CONTROL MEASURES FOR AREAS OF CONCENTRATED FLOW ARE NOT ANTICIPATED AS NECESSARY FOR ANY SPECIFIC AREAS OF THE PROPOSED PROJECT. SEDIMENT CONTROL MEASURES FOR AREAS OF CONCENTRATED FLOW WILL BE PROVIDED AS NEEDED BY THE CONTRACTOR. REFER TO DS-09, "TEMPORARY EROSION CONTROL" (UNDER SEPARATE ATTACHMENT) FOR MORE INFORMATION.

### **B5** SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS:

ALL DISTURBED AREAS, WHERE RUNOFF WILL BE IN SHEET FLOW CONDITION AND WHICH ARE NOT TO BE DISTURBED FOR SEVEN (7) DAYS OR MORE, SHALL RECEIVE TEMPORARY SEEDING. DISTURBED AREAS SHALL BE PERMANENTLY SEEDED IMMEDIATELY AFTER LAND DISTURBANCE ACTIVITIES ARE COMPLETED. PERIMETER PROTECTION, SUCH AS SILT FENCE AND INLET PROTECTION, SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS. IN GENERAL, SILT FENCES WILL BE INSTALLED APPROXIMATELY FIVE (5) FEET FROM PROPERTY BOUNDARIES/RIGHT OF WAY BOUNDARIES AS APPLICABLE. INSTALLATION OF SILT FENCES WILL TYPICALLY BE REQUIRED ON THE DOWNSLOPE SIDE OF ALL OPEN TRENCHES EXCAVATED FOR STORM SEWER INSTALLATION. THE PLANS SHOW ADDITIONAL EROSION CONTROL MEASURES PROPOSED FOR THIS PROJECT. REFER TO DS-09, "TEMPORARY EROSION CONTROL" (UNDER SEPARATE ATTACHMENT) FOR MORE DETAIL.

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STORMWATER POLLUTION PREVENTION PLAN

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### STORMWATER POLLUTION PREVENTION PLAN - CONSTRUCTION COMPONENT (SECTION B) (CONTINUED)

### **B6 RUNOFF CONTROL MEASURES:**

DIVERSION DITCHES, SLOPE DRAINS, OR OTHER SIMILAR STRUCTURES FOR RUNOFF CONTROL ARE NOT ANTICIPATED FOR THIS

### **B7 STORMWATER OUTLET PROTECTION SPECIFICATIONS:**

STORMWATER OUTLETS WILL BE PROVIDED WITH SILT FENCES, EROSION CONTROL BLANKETS, AND TEMPORARY AND PERMANENT SEEDING AS APPLICABLE.

### B8 GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS:

GRADE STABILIZATION WILL BE REQUIRED AS NEEDED DURING CONSTRUCTION. GRADE STABILIZATION REQUIREMENTS ARE ESTABLISHED IN DS-09, "TEMPORARY EROSION CONTROL" (UNDER SEPARATE ATTACHMENT).

SEEDING AND MULCHING OR TEMPORARY SEEDING WILL BE PERFORMED ON AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION. TEMPORARY SEEDING WILL TAKE PLACE AS SOON AS PRACTICABLE AFTER DISTURBED AREAS HAVE BEEN RESTORED TO THEIR REQUIRED GRADE OR HAVE BEEN DISTURBED AND NOT WORKED FOR SEVEN (7) DAYS OR MORE. BIODEGRADABLE MATTING OR NETTING MAY BE USED TO STABILIZE SOILS ON SLOPED AREAS AND SOME RECENTLY PLANTED AREAS TO PROTECT SEEDLINGS UNTIL THEY HAVE BECOME ESTABLISHED.

### **B9 DEWATERING APPLICATIONS AND MANAGEMENT METHODS:**

IF DEWATERING BECOMES NECESSARY ON SITE, THE FOLLOWING METHODS WILL BE USED:

EQUIPMENT OPERATORS ARE PROHIBITED FROM DISCHARGING GROUNDWATER OR ACCUMULATED STORMWATER THAT IS REMOVED FROM EXCAVATIONS, TRENCHES, VAULTS, OR OTHER SIMILAR POINTS OF ACCUMULATION, UNLESS SUCH WATERS ARE FIRST EFFECTIVELY MANAGED BY APPROPRIATE CONTROL MEASURES.

EXAMPLES OF APPROPRIATE CONTROL MEASURES INCLUDE TEMPORARY SEDIMENT BASINS OR SEDIMENT TRAPS, SEDIMENT SOCKS, DEWATERING TANKS AND BAGS, OR FILTRATION SYSTEMS (E.G., BAG OR SAND FILTERS) THAT ARE DESIGNED TO REMOVE SEDIMENT. UNCONTAMINATED, NON-TURBID DEWATERING WATER CAN BE DISCHARGED WITHOUT BEING ROUTED TO A CONTROL.

AT A MINIMUM. THE FOLLOWING DISCHARGE REQUIREMENTS MUST BE MET FOR DEWATERING ACTIVITIES:

1. ALLOW NO DISCHARGE OF VISIBLE SEDIMENT OR SOLIDS.

2. AT ALL POINTS WHERE DEWATERING WATER IS DISCHARGED, UTILIZE VELOCITY DISSIPATION DEVICES.

3. DEWATERING PRACTICES MUST INVOLVE THE IMPLEMENTATION OF APPROPRIATE CONTROL MEASURES AS APPLICABLE (I.E., CONTAINMENT AREAS FOR DEWATERING EARTH MATERIALS, PORTABLE SEDIMENT TANKS AND BAGS, PUMPING SETTLING BASINS, AND PUMP INTAKE PROTECTION).

### **B10 MEASURES UTILIZED FOR WORK WITHIN WATERBODIES:**

WORK WITHIN WATERBODIES IS NOT ANTICIPATED FOR THIS PROJECT.

### B11 MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE:

THROUGHOUT THE DURATION OF CONSTRUCTION, THE CONTRACTOR SHALL MONITOR AND MANAGE PROJECT CONSTRUCTION AND STORMWATER ACTIVITIES THROUGH THE ADMINISTRATION OF A SELF-MONITORING PROGRAM (SMP). A TRAINED INDIVIDUAL SHALL SUBMIT WEEKLY SMP REPORTS, AND EVENT INSPECTION REPORTS AS REQUIRED WITHIN 24 HOURS OF EVERY 1/2" RAIN EVENT. INSPECTION WILL BE PROVIDED FOR ALL EROSION AND SEDIMENT CONTROL STRUCTURES TO ENSURE INTEGRITY AND EFFECTIVENESS. INSPECTIONS WILL ALSO BE PROVIDED FOR ALL DISTURBED AREAS THAT HAVE NOT ACHIEVED FINAL STABILIZATION, AND AT ALL POINTS OF DISCHARGE FROM THE CONSTRUCTION SITE. REFER TO DS-09, "TEMPORARY EROSION CONTROL (UNDER SEPARATE ATTACHMENT) FOR REQUIREMENTS REGARDING THE SMP REPORTS AND PROJECT MANAGEMENT LOG.

### B12 PLANNED CONSTRUCTION SEQUENCE THAT DESCRIBES THE IMPLEMENTATION OF STORMWATER QUALITY MEASURES IN RELATION TO LAND DISTURBANCE:

A PRE-CONSTRUCTION MEETING WILL BE REQUIRED PRIOR TO COMMENCEMENT OF CONSTRUCTION AND ANY LAND DISTURBANCE ACTIVITY. ATTENDEES TO THE PRE-CONSTRUCTION MEETING WILL INCLUDE REPRESENTATIVES OF THE CONTRACTOR, OWNER, ENGINEER. THE KOSCIUSKO COUNTY SOIL AND WATER CONSERVATION DISTRICT (SWCD) SHALL BE PROVIDED WITH A 48-HOUR NOTICE PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY. REFER ALSO TO DS-09, "TEMPORARY EROSION CONTROL" (UNDER SEPARATE ATTACHMENT), WHICH IS INCLUDED AS A PART OF THE CONSTRUCTION SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THE PROJECT.

THE NOTICE OF INTENT AND THE LOCATION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WILL BE POSTED AT THE JOB SITE. THERE WILL BE FUEL CONTAINMENT AND CONCRETE WASHOUT PROVIDED ON-SITE, IF APPLICABLE.

PROJECT SEQUENCING WILL GENERALLY FOLLOW THE FOLLOWING STEPS:

1. ESTABLISH CONSTRUCTION ENTRANCE.

2. INSTALL PERIMETER PROTECTION (SILT FENCE, INLET PROTECTION).

3. TEMPORARY SEED AS NEEDED PER SPECIFICATIONS.

4. REMOVE TEMPORARY EROSION CONTROL MEASURES AS PERMANENT MEASURES ARE ESTABLISHED.

### B13 PROVISIONS FOR EROSION AND SEDIMENT CONTROL ON INDIVIDUAL BUILDING LOTS REGULATED UNDER THE PROPOSED PROJECT:

ALL PROPOSED IMPROVEMENTS ARE TAKING PLACE ON RIGHT-OF-WAY, UTILITY EASEMENTS, OR LAND OWNED BY THE TOWN. THI PROJECT AREA AND INDIVIDUAL AREA EROSION CONTROL IS DEPICTED IN PLANS.

### B14 MATERIAL HANDLING AND SPILL PREVENTION AND SPILL RESPONSE PLAN MEETING THE REQUIREMENTS IN 327 IAC 2-6.1:

AS DESCRIBED DS-09, "TEMPORARY EROSION CONTROL" (UNDER SEPARATE ATTACHMENT), THE CONTRACTOR WILL BE REQUIRED TO INSPECT EQUIPMENT REGULARLY TO AVOID UNNECESSARY LEAKS OR SPILLS. THE CONTRACTOR WILL ALSO BE REQUIRED TO PROVIDE SPILL KITS AND EQUIPMENT TO CONTAIN AND CLEAN UP AND PETROLEUM PRODUCTS OR OTHER UNDESIRABLE SPILLS WHICH MAY OCCUR DURING CONSTRUCTION.

FUELS, OILS, GREASE, OR OTHER PETROLEUM PRODUCTS MUST BE STORED IN APPROPRIATE AND APPROVED AREAS. PREVENTATIVE MAINTENANCE WILL BE REQUIRED FOR ON-SITE EQUIPMENT. HAZARDOUS MATERIALS WILL BE REQUIRED TO BE STORED IN A FIELD TRAILER TO AVOID ANY OUTSIDE STORAGE.

ALL FUEL IS TO BE CONTAINED IN A MOBILE SERVICE TRUCK OR IN THE CONSTRUCTION EQUIPMENT OPERATING ON SITE. SMALL CONTAINERS OF OILS, GREASE, AND RELATED PRODUCTS MAY BE STORED IN THE CONTRACTOR'S CONSTRUCTION TRAILER. THESE ITEMS WILL BE REQUIRED TO BE INSPECTED REGULARLY TO INSURE PROPER STORAGE AND HANDLING AND TO GUARD AGAINST LEAKAGE. DEFECTIVE CONTAINERS WILL BE REMOVED FROM THE PROJECT SITE IMMEDIATELY.

IF A SPILL DOES OCCUR, SPILL REPORTING AND NOTIFICATION REQUIREMENTS WILL BE UNDERTAKEN IN ACCORDANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION AND STATE REQUIREMENTS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RESPONSE PROCEDURES THAT WILL MINIMIZE GROUNDWATER AND SURFACE WATER IMPACTS.

CONTACT INFORMATION FOR LOCAL AND STATE AGENCIES TO BE CONTACTED IN THE EVENT OF A SPILL ARE AS FOLLOWS:

KOSCIUSKO COUNTY SOIL & WATER CONSERVATION DISTRICT 182 W. 300 N., SUITE D ANDERSON, IN 46012 PHONE: 765-644-4249 EXT. 3

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF LAND QUALITY EMERGENCY RESPONSE AND SPILL REPORTING SECTION

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER QUALITY INDIANA GOVERNMENT CENTER NORTH 100 N. SENATE AVENUE, ROOM N1255 INDIANAPOLIS, INDIANA 46204

INDIANA DEPARTMENT OF NATURAL RESOURCES DISTRICT 4 HEADQUARTERS PHONE: 765-649-1062

PHONE: 1-888-233-7745

PHONE: 1-888-233-7745

INDIANA DEPARTMENT OF TRANSPORTATION TRAFFIC MANAGEMENT CENTER PHONE: 317-899-8690

### B15 MATERIAL HANDLING AND STORAGE PROCEDURES ASSOCIATED WITH CONSTRUCTION ACTIVITY:

FUELS, OILS, GREASE, OR OTHER PETROLEUM PRODUCTS MUST BE STORED IN APPROPRIATE AND APPROVED AREAS. PREVENTATIVE MAINTENANCE WILL BE REQUIRED FOR ON-SITE EQUIPMENT. HAZARDOUS MATERIALS WILL BE REQUIRED TO BE STORED IN A FIELD TRAILER TO AVOID ANY OUTSIDE STORAGE.

ALL FUEL IS TO BE CONTAINED IN A MOBILE SERVICE TRUCK OR IN THE CONSTRUCTION EQUIPMENT OPERATING ON SITE. SMALL CONTAINERS OF OILS, GREASE, AND RELATED PRODUCTS MAY BE STORED IN THE CONTRACTOR'S CONSTRUCTION TRAILER. THESE ITEMS WILL BE REQUIRED TO BE INSPECTED REGULARLY TO INSURE PROPER STORAGE AND HANDLING AND TO GUARD AGAINST LEAKAGE. DEFECTIVE CONTAINERS WILL BE REMOVED FROM THE PROJECT SITE IMMEDIATELY.

CONCRETE WASHOUT AREA LOCATIONS ARE ANTICIPATED AS NECESSARY FOR THIS PROJECT AND HAVE BEEN INCLUDED IN THE EROSION CONTROL SHEET SET.

### STORMWATER POLLUTION PREVENTION - POST-CONSTRUCTION COMPONENT (SECTION C)

### C1 DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE:

THE FINAL LAND USE IN DIVISION A IS PROPOSED TO CHANGE FORM THE EXISTING. THE NRCS HAS BEEN CONTACTED ABOUT THE CONVERSION OF FARMLAND TO URBAN DEVELOPED LAND. DIVISION B WILL NOT HAVE ANY LAND USE CHANGES. POTENTIAL POLLUTANTS FROM THIS PROJECT AFTER CONSTRUCTION IS COMPLETED INCLUDE SEDIMENT, HYDROCARBONS, AND LITTER.

SEDIMENT POLLUTION IS A RESULT OF EROSION WHICH CAN BE TRIGGERED BY NATURAL CAUSES OR HUMAN ACTIVITY. FOR THIS PROJECT, SEDIMENTATION MAY OCCUR DUE TO RUNOFF FROM EXCAVATED AREAS. SEDIMENT POLLUTION MAY ALSO BE CAUSED BY ON-SITE STORAGE OF EXCAVATED MATERIALS, BACKFILL MATERIALS, AND CONSTRUCTION SPOIL AREAS. HYDROCARBON POLLUTION MAY OCCUR DUE TO LEAKAGE AND SPILLS FROM ITEMS SUCH AS GASOLINE, OIL, GREASE, VEHICLE BRAKE AND TRANSMISSION FLUIDS, ANTIFREEZE, AND COOLANTS. LITTER MAY OCCUR IN PROJECT AREAS DUE TO HUMAN ACTIVITIES AND INCLUDES PLASTIC BAGS, BOTTLES, ALUMINUM CANS, AND OTHER GENERAL

### C2 DESCRIPTION OF PROPOSED POST-CONSTRUCTION STORMWATER QUALITY MEASURES:

POST-CONSTRUCTION MEASURES INCLUDE THE PROPOSED PERMANENT SEEDING. IMPERVIOUS SURFACE IS BEING ADDED FOR THE PROJECT BUT WILL HAVE INSIGNIFICANT EFFECTS ON THE RUNOFF RATE COMPARED TO PRE-CONSTRUCTION VALUES. ALL VEGETATED AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WILL BE REQUIRED TO BE RESTORED. REQUIREMENTS FOR PERMANENT SEEDING ARE REFERENCED IN WM-24 "SEEDING AND SODDING" SPECIFICATION.

### C3 PLAN DETAILS FOR EACH STORMWATER QUALITY MEASURE:

DETAILS FOR POST-CONSTRUCTION MEASURES ARE SHOWN IN THE PLANS. TEMPORARY EROSION CONTROL MEASURES WILL NOT BE REMOVED UNTIL THE PERMANENT SEEDING HAS BEEN ESTABLISHED. REFER TO DS-09 "TEMPORARY EROSION" AND SEDIMENT CONTROL" AND WM-24 "SEEDING AND SODDING".

### SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION:

POST-CONSTRUCTION SEQUENCING MEASURES FOR THIS PROJECT WILL BE AS FOLLOWS:

TEMPORARY PLANTINGS WILL BE PROVIDED IN CRITICAL AREAS DEVOID OF VEGETATION AND SUBJECT TO EROSION. SUCH TEMPORARY PLANTINGS MAY BE NECESSARY TO PROTECT AN AREA WHEN PREPARING FOR WINTER SHUT DOWN OR TO PROVIDE COVER WHEN PERMANENT SEEDLINGS ARE LIKELY TO FAIL DUE TO AN EXTENDED PERIOD OF HEAT OR

- 2. REMOVAL AND CLEANUP OF ALL TEMPORARY EROSION CONTROL MEASURES INCLUDING SILT FENCE AND EROSION CONTROL BLANKET.
- 3. THE ENTIRE CONSTRUCTION AREA IS TO BE INSPECTED AND CLEANED, INCLUDING THE COLLECTION AND DISPOSAL OF CONSTRUCTION TRASH AND DEBRIS.
- 4. PERMANENT SEEDING AND MULCHING WILL BE INSTALLED IMMEDIATELY AFTER ACHIEVING FINAL GRADE OR WITHIN SEVEN (7) DAYS OF INACTIVITY. IF NECESSARY, A TEMPORARY STABILIZATION PRACTICE WILL BE EMPLOYED UNTIL THE NEXT PRIME SEEDING PERIOD.
- 5. A FINAL SITE INSPECTION WILL TAKE PLACE TO ASSURE THAT ALL REQUIREMENTS OF THE SWPPP, CONSTRUCTION DRAWINGS, AND SUPPORTING DOCUMENTS HAVE BEEN FULFILLED.

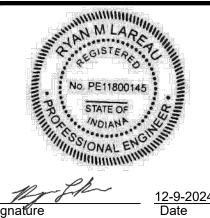
### C5 MAINTENANCE GUIDELINES FOR PROPOSED POST-CONSTRUCTION WATER QUALITY MEASURES:

VEGETATED AREAS WITHIN THE PROJECT BOUNDARIES MUST BE MAINTAINED ON A REGULAR BASIS DURING THE ACTIVE GROWING SEASON. MAINTENANCE ACTIVITIES WILL INCLUDE INSPECTION FOR SPARSELY SEEDED AREAS, AND RESEEDING AREAS WHICH HAVE BEEN DAMAGED, OR WHICH HAVE NOT EXHIBITED A SUCCESSFUL AND HARDY STAND OF VEGETAL COVER. FERTILIZATION AND WATERING REQUIREMENTS ARE PROVIDED IN WM-24 "SEEDING AND SODDING".

### C6 ENTITY RESPONSIBLE FOR OPERATION AND MAINTENANCE OF THE POST-CONSTRUCTION STORMWATER MEASURES:

THE TOWN OF MILFORD WILL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF POST-CONSTRUCTION STORMWATER MEASURES AFTER THE NOTICE OF TERMINATION (NOT) HAS BEEN RECEIVED BY THE IDEM.

MONWEAL **8** 



N OF MILFORD IUSKO COUNTY, INDIANA 10 0S

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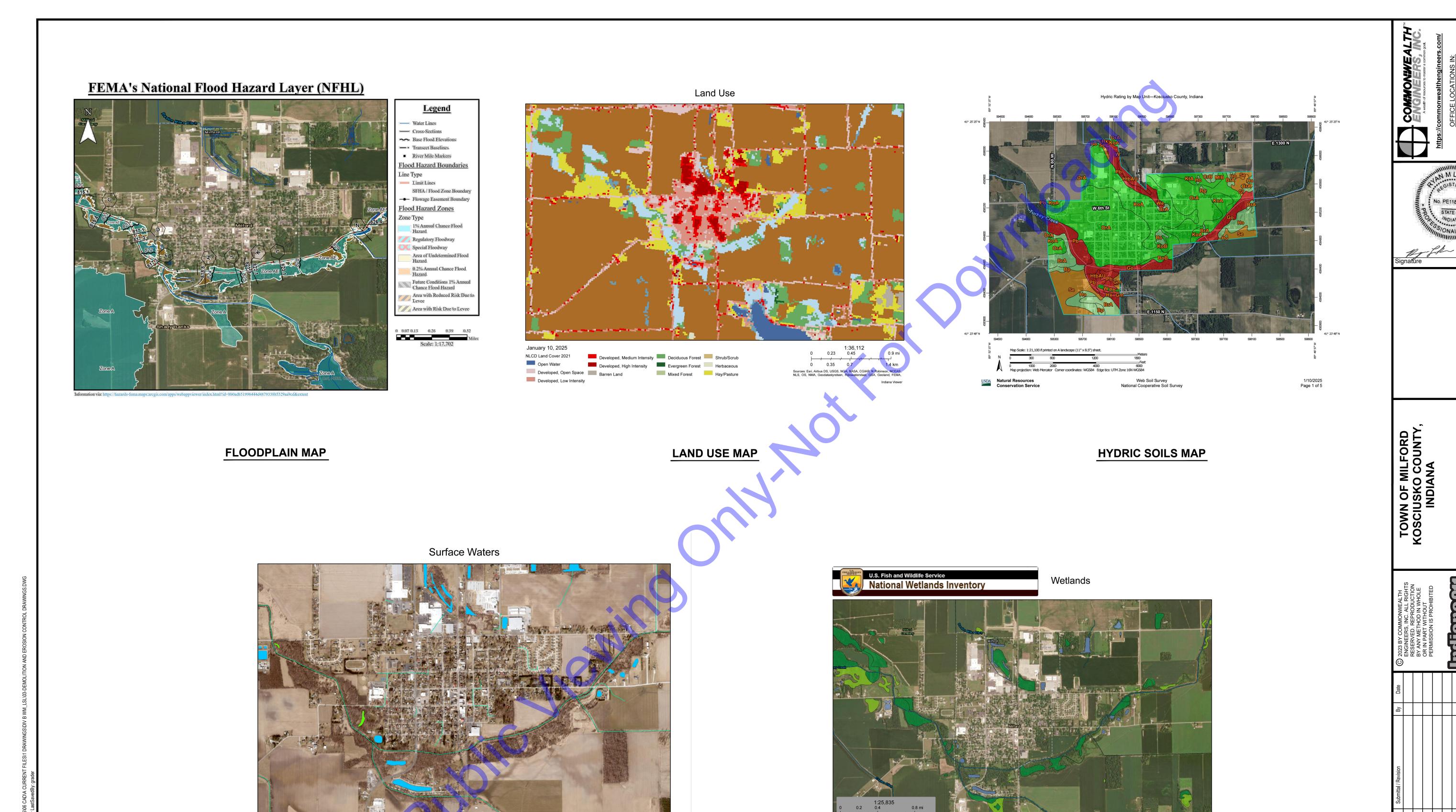
STORMWATER POLLUTION PREVENTION PLAN

W24161 | AS SHOW

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1-14-25

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**SURFACE WATERS MAP WETLANDS MAP** 

January 10, 2025

Freshwater Emergent Wetland Lake

Estuarine and Marine Deepwater Freshwater Forested/Shrub Wetland Other

Estuarine and Marine Wetland Freshwater Pond

1:18,056 0 0.1 0.2

0 0.17 0.35

Indiana Geographic Information Office (IGIO)

January 10, 2025

NHD Discrete Waterbodies -

SwampMarsh

NHD Classified Flowlines Green: Band\_2

Blue: Band\_3

Indiana Current Imagery

Sheet: 22 OF 49

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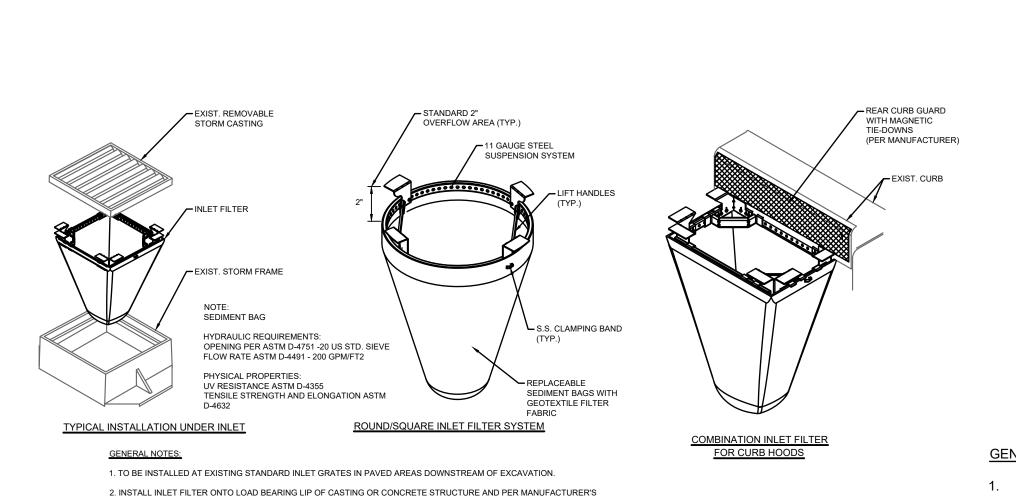
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STORMWATER POLLUTION PREVENTION PLAN

1-14-25 W24161 AS SHOWN

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper



3. FOR CURB BOX INLETS, CURB BACK MUST HAVE FILTER ATTACHED PER MANUFACTURER'S RECOMMENDATION OR

INLET FILTER EROSION CONTROL DETAIL FOR STANDARD SIZED STORM STRUCTURES

CONTRACTOR MUST CREATE A DAM TO DIRECT RUNOFF INTO THE SEDIMENT BAG

MIN. 18" DEPTH INTO SOIL WOOD LATHE STRIP TO SANDWICH FABRIC AS NEEDED -36" MAX. HT. GEOTEXTILE **FABRIC ABOVE** GROUND STAPLE MATERIAL TO POST (TYP) - COMPACTED SOIL **OVER MATERIAL** TRENCH SIDE **GENERAL NOTES:** TIE BACK BETWEEN FENCE POST AND ANCHOR -1. SILT FENCES SHOULD BE INSTALLED PRIOR TO MAJOR SOIL DISTURBANCE. 2. FENCES SHALL BE INSTALLED BETWEEN THE ANCHOR STAKE TRENCH AND ANY DRAINAGE DITCHES OR SWALES. 18" MIN. — MATERIAL EXTENDED 3. FENCES SHALL ALSO BE INSTALLED AROUND THE INTO TRENCH

- NOMINAL 2"x2" POST

2" X 2" WOOD OR STEEL FENCE POST W/ PROJECTION TO **FASTEN FABRIC** SPACING 6' O.C. FILTER FABRIC -WOVEN OR NON-WOVEN -NO JOINTS ALONG LENGTH -STAPLE OR WIRE TO POSTS -(AND WIRE FENCE IF USED) 8"D X 4"W TRENCH TO BE BACKFILLED AND COMPACTED DOWNSLOPE

- THE BOTTOM 1' OF THE FENCE SHALL BE BURIED IN THE TRENCH ON THE UPSLOPE SIDE.
- PENCE SHALL BE INSTALLED ALONG LEVEL GRADES, NOT ACROSS FLOW CHANNELS. 3. IF OPTIONAL SUPPORT WIRE FENCE IS USED, POST SPACING MAY BE EXTENDED TO 8' O.C.

- INSPECT SILT FENCE PERIODICALLY (WEEKLY) AND AFTER EACH STORM EVENT. 2. IF FABRIC IS TORN OR DAMAGED OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
- 3. REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE, OR IT IS
- CAUSING THE FABRIC TO BULGE.
- 4. TAKE CARE NOT TO UNDERMINE THE FENCE DURING SEDIMENT REMOVAL
- 5. AFTER THE CONTRIBUTING AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND REMAINING SEDIMENT, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE.

**SILT FENCE DETAIL** 

### - SANDBAGS - STACK IN A "RUNNING BOND - POLYETHYLENE LINING (2 LAYERS - 10 MIL. **SECTION A-A** THICK MIN.) THE LINING SHOULD BE HELD IN PLACE BY A LAYER OF SAND BAGS AND EXTEND OVER THE SAND BAGS. 10'-0" MIN. - SANDBAGS - STACK IN A "RUNNING BOND" - POLYETHYLENE LINING (2 LAYERS - 10 MIL. THICK MIN.) THE LINING SHOULD BE HELD IN PLACE BY A LAYER OF SAND BAGS AND EXTEND OVER THE SAND BAGS. - WHITE BACKGROUND PLAN VIEW & RED TEXT — 2"x2" POST DUE TO SITE CONSTRAINTS THE MINIMUM INTERIOR DIMENSION MAY BE ADJUSTED TO - FINISH GRADE FIT THE SITE. THE STRUCTURE'S INTERIOR FOOTAGE OF 100 S.F. MUST BE MAINTAINED AND THE CONTRACTOR SHALL SUBMIT ANY DESIGN ALTERATIONS TO THE ENGINEER. 36" MIN. OR CONCRETE WASHOUT STRUCTURE SHALL BE STABLE WEIGHTED RE-LOCATED CLOSE TO AREAS RECEIVING EARTH OR PAVEMENT BASE ON PAVEMENT CONCRETE, AS CONSTRUCTION

### **CONCRETE WASHOUT PIT DETAIL**

SCALE: 1"=5'-0"

PROGRESSES.

**PLAN VIEW** - 8" HIGH DIVERSION RIDGE IF PAD SLOPES TOWARDS ROAD 3"± INDOT NO. 5 (50' ADJACENT TO ROAD) GEOTEXTILE OVER 8" (MIN.) INDOT NO. 2 FILTER FABRIC (MIRAFI 140NL OR APPROVED EQUAL) -SECTION VIEW MAINTENANCE:

STOCKPILED SOILS.

4. THE GEOTEXTILE SHALL BE FREE FROM DEFECTS. TEARS, PUNCTURES, FLAWS, DETERIORATION OR DAMAGE INCURRED DURING MANUFACTURE TRANSPORTATION, STORAGE, OR INSTALLATION.

5. TIE BACKS SHALL BE PLACED AS REQUIRED.

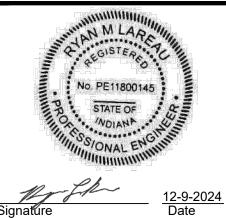
- INSPECT DAILY, AND AFTER EACH STORM EVENT OR HEAVY USE.
- 2. RESHAPE AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
- 3. TOPDRESS WITH CLEAN STONE AS REQUIRED. MAINTAIN MINIMUM DEPTH THROUGHOUT CONSTRUCTION.
- 4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY SWEEPING OR BRUSHING. (DO NOT FLUSH AREA WITH WATER UNLESS WATER IS CONVEYED TO SEDIMENT TRAP.)
- 5. REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.

### STABILIZED CONSTRUCTION ENTRANCE DETAIL

SCALE: 1"=5'-0"

### GENERAL EROSION AND SEDIMENT CONTROL NOTES

- 1. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE INDIANA STORM WATER QUALITY MANUAL FROM THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND LOCAL EROSION AND SEDIMENT CONTROL ORDINANCE, OR SWCD.
- 2. THE NOTICE OF INTENT (NOI) AND PUBLIC NOTICE FOR THE PROJECT SHALL BE POSTED ON A SIGN INSTALLED AT OR NEAR THE SITE CONSTRUCTION TRAILER. THE NOI SHALL LIST THE CONTACT INFORMATION FOR THE SITE CONTACT PERSON. THE SIGN AND INFORMATION SHALL BE MAINTAINED AND REMAIN LEGIBLE THROUGHOUT CONSTRUCTION.
- 3. A COPY OF THIS EROSION AND SEDIMENT CONTROL PLAN AND THE EROSION AND SEDIMENT CONTROL REPORT SHALL BE AVAILABLE AT THE PROJECT SITE THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD.
- 4. THE CONTRACTOR SHALL CONTROL WASTE, GARBAGE, DEBRIS, WASTEWATER, AND OTHER SUBSTANCES ON THE SITE SO THEY WILL NOT BE TRANSPORTED FROM THE SITE BY THE ACTION OF WIND, STORM WATER RUNOFF, OR OTHER FORCES. PROPER DISPOSAL OR MANAGEMENT OF ALL WASTES AND UNUSED BUILDING MATERIAL APPROPRIATE TO THE NATURE OF THE WASTE OR MATERIAL IS REQUIRED.
- 5. PUBLIC OR PRIVATE ROADWAYS SHALL BE KEPT CLEAR OF ACCUMULATED SEDIMENT. ALL SEDIMENT THAT IS CLEARED MUST BE RETURNED TO THE LIKELY POINT OF ORIGIN OR OTHER SUITABLE LOCATION. CLEARING OF LARGE AMOUNTS OF SEDIMENT SHALL NOT INCLUDE FLUSHING THE AREA WITH WATER.
- 6. MINIMIZE THE EXPOSURE OF BARE EARTH BY LIMITING THE WORK AREA TO THAT NECESSARY TO PERFORM THE WORK, AND BY PROPER SCHEDULING OF MANPOWER AND EQUIPMENT.
- 7. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED, CLEANED, AND MAINTAINED FOLLOWING EACH STORM EVENT.
- 8. WHEREVER POSSIBLE, MAINTAIN EXISTING VEGETATIVE COVER. USE NON-VEGETATIVE MATERIAL INCLUDING MULCH, EROSION BLANKETS, OR STONE TO CONTROL EROSION FROM DISTURBED AREAS.
- 9. A LOG SHALL BE MAINTAINED OF ALL INSPECTIONS (WEEKLY, AND FOLLOWING STORM EVENTS), MAINTENANCE AND REPAIR OF EROSION AND SEDIMENT CONTROL MEASURES. THE LOG SHALL BE MAINTAINED ON SITE AND BE AVAILABLE UPON REQUEST TO THE OWNERS REPRESENTATIVES AND THE OPERATING AUTHORITIES HAVING JURISDICTION OVER THE SITE.



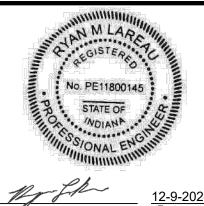
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**EROSION CONTROL** DETAILS

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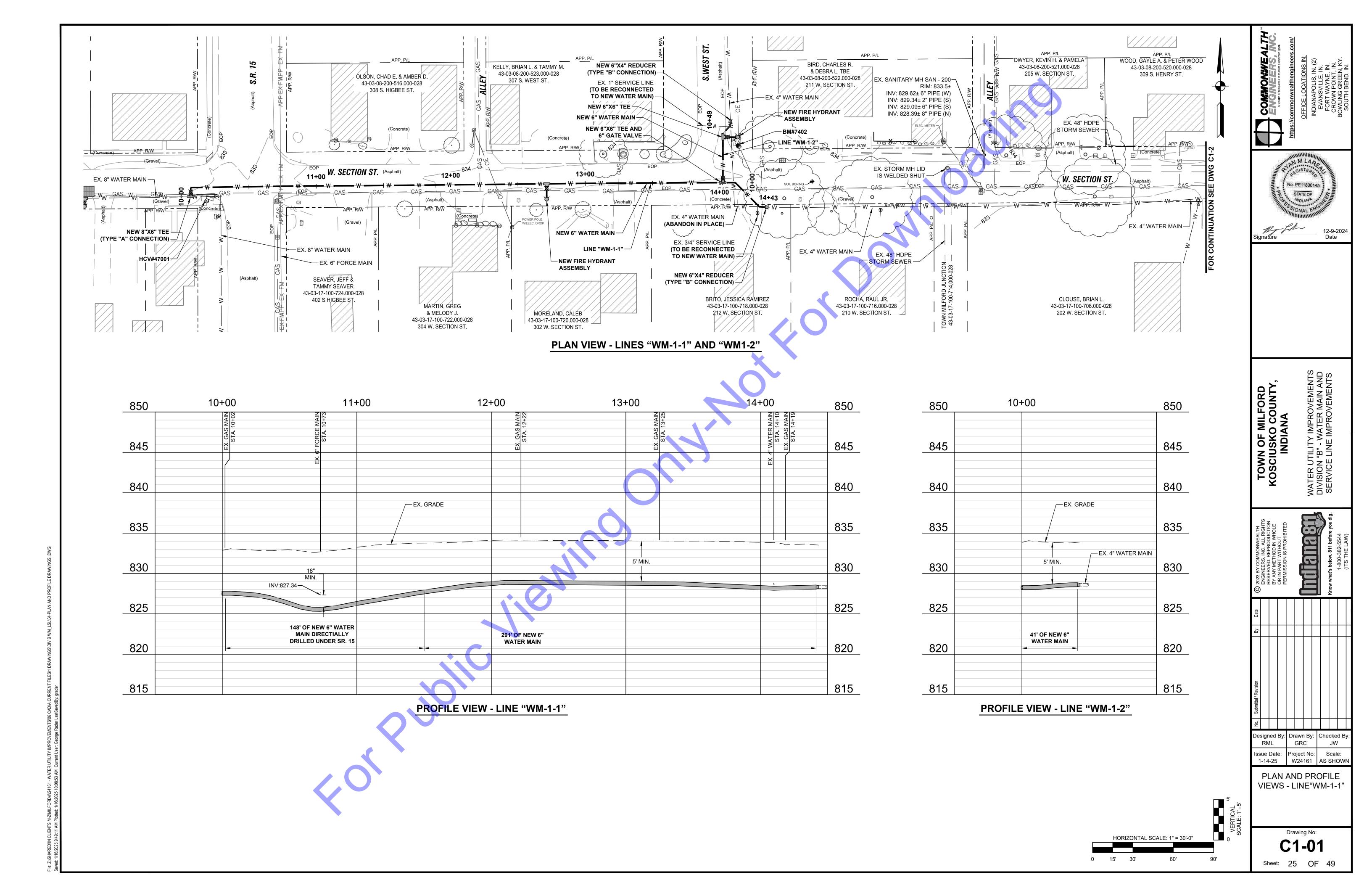


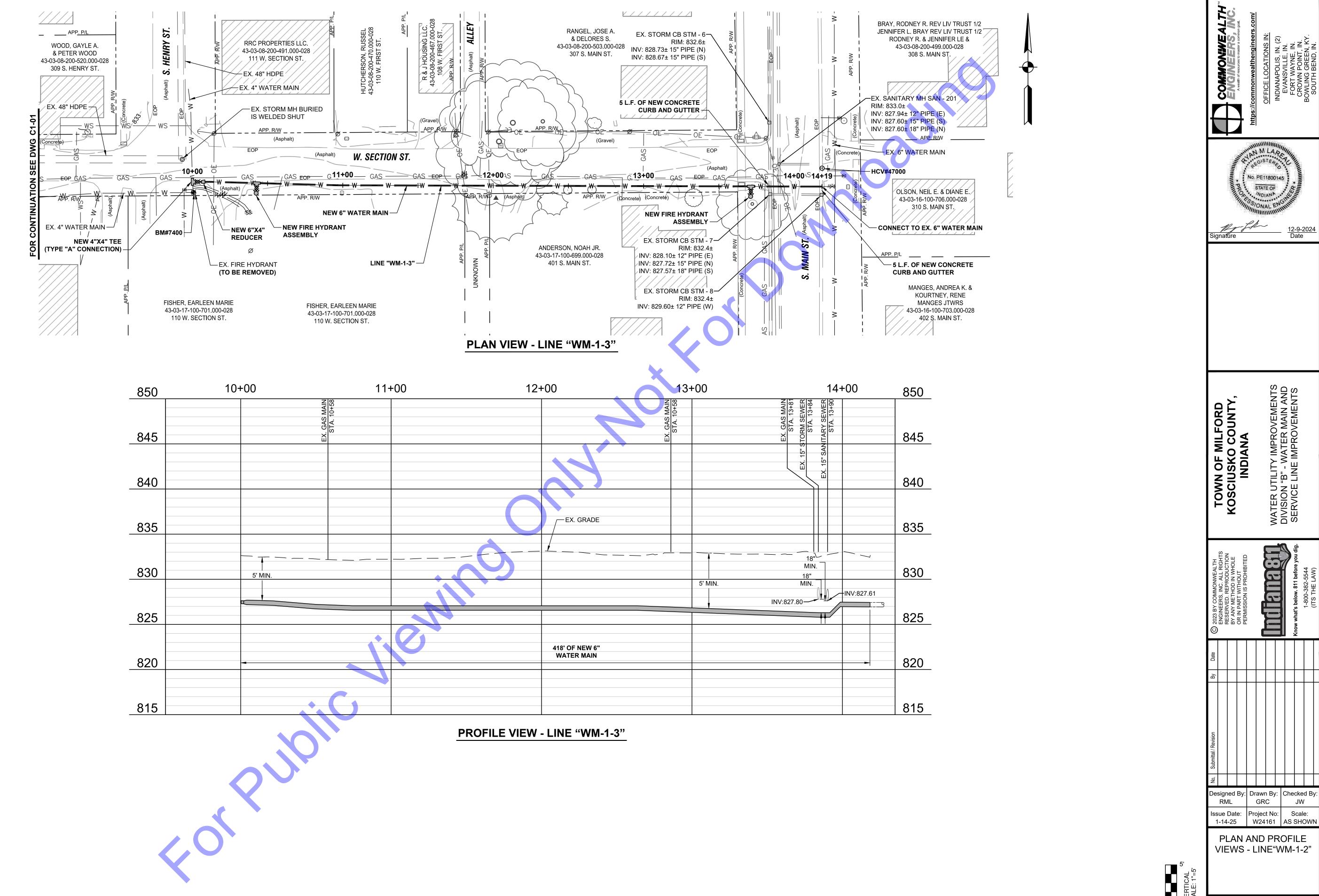


PLAN AND PROFILE DRAWING INDEX

C1-0

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HORIZONTAL SCALE: 1" = 30'-0"

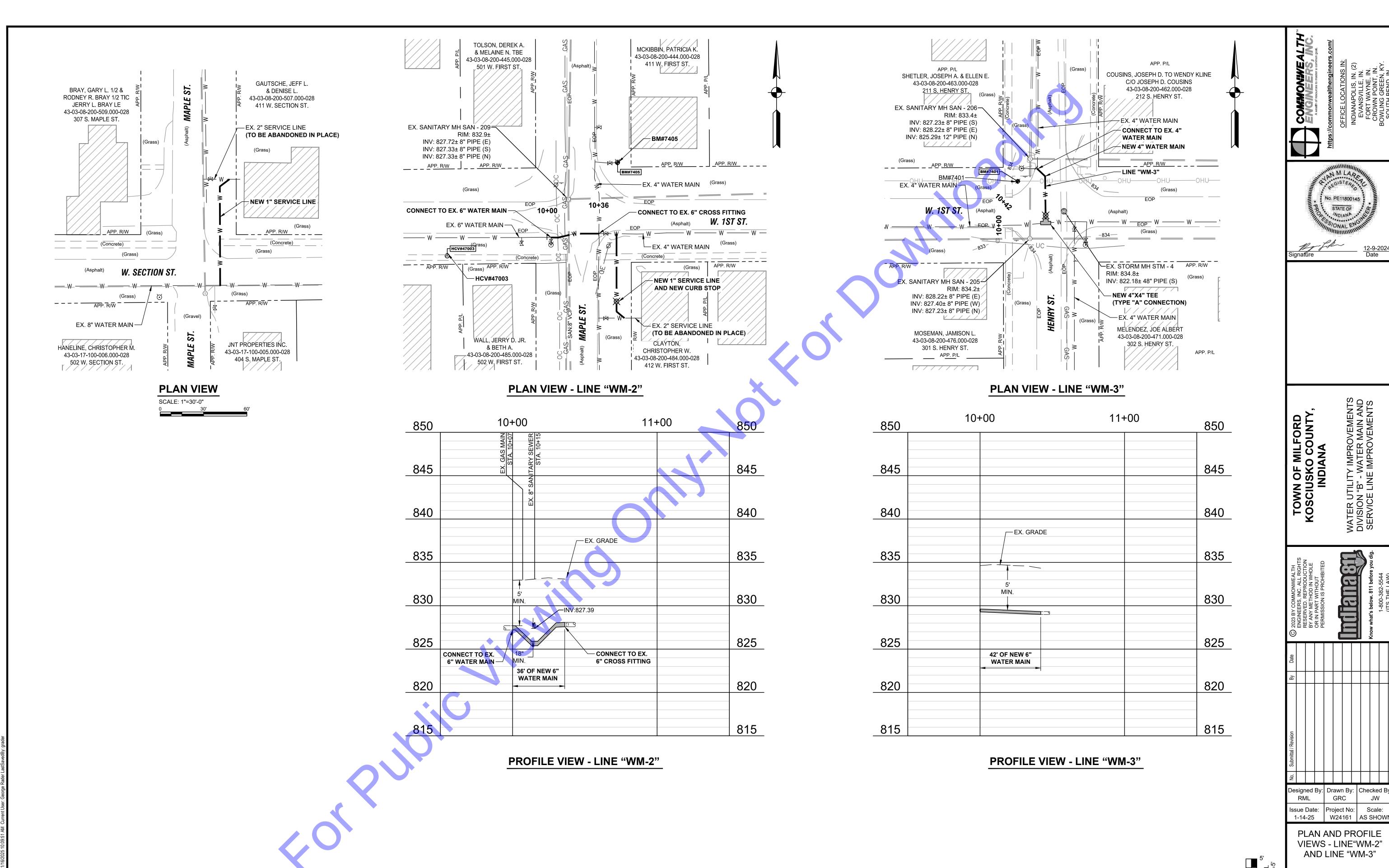
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AND LINE "WM-3" Drawing No: C1-03

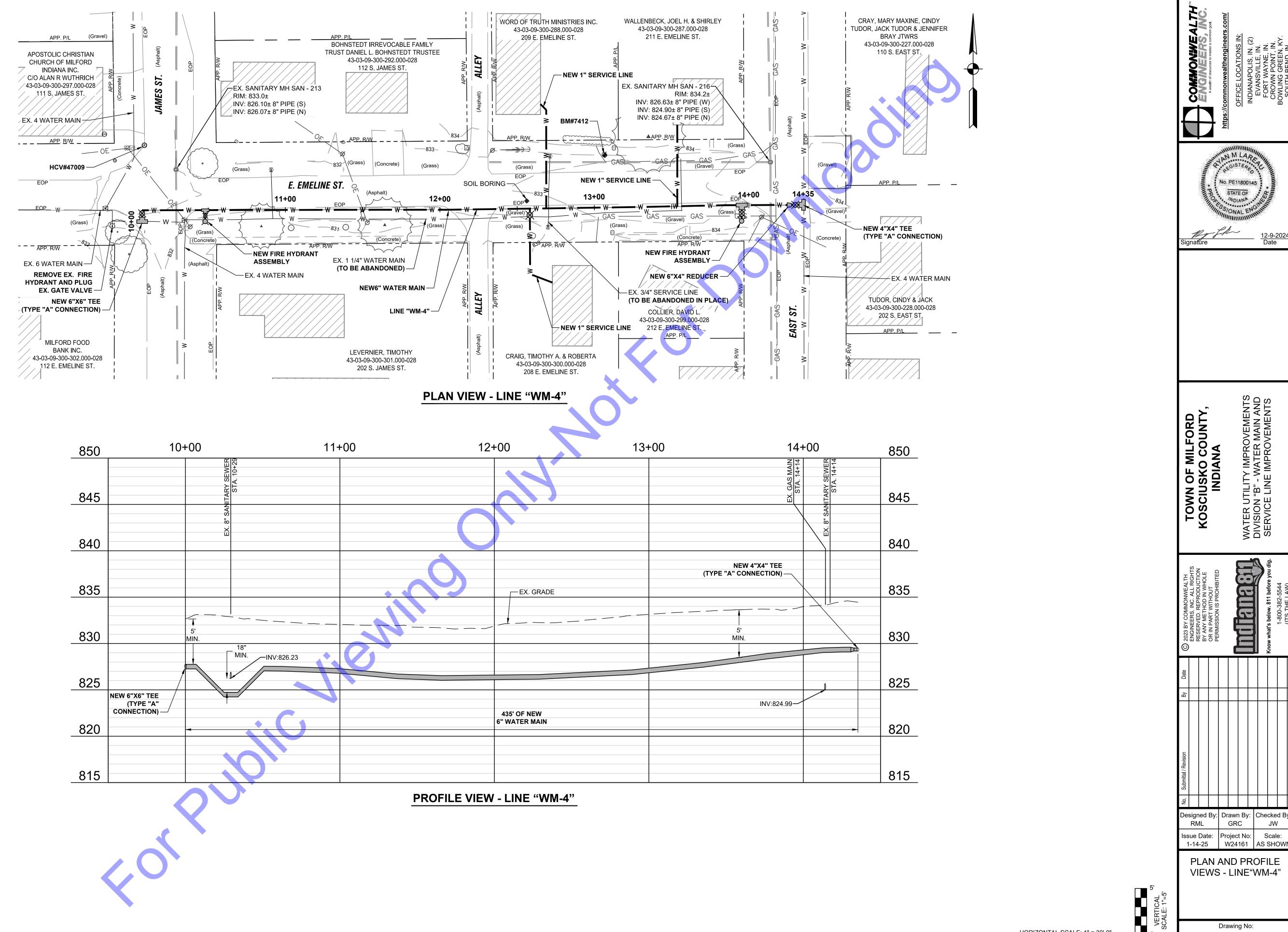
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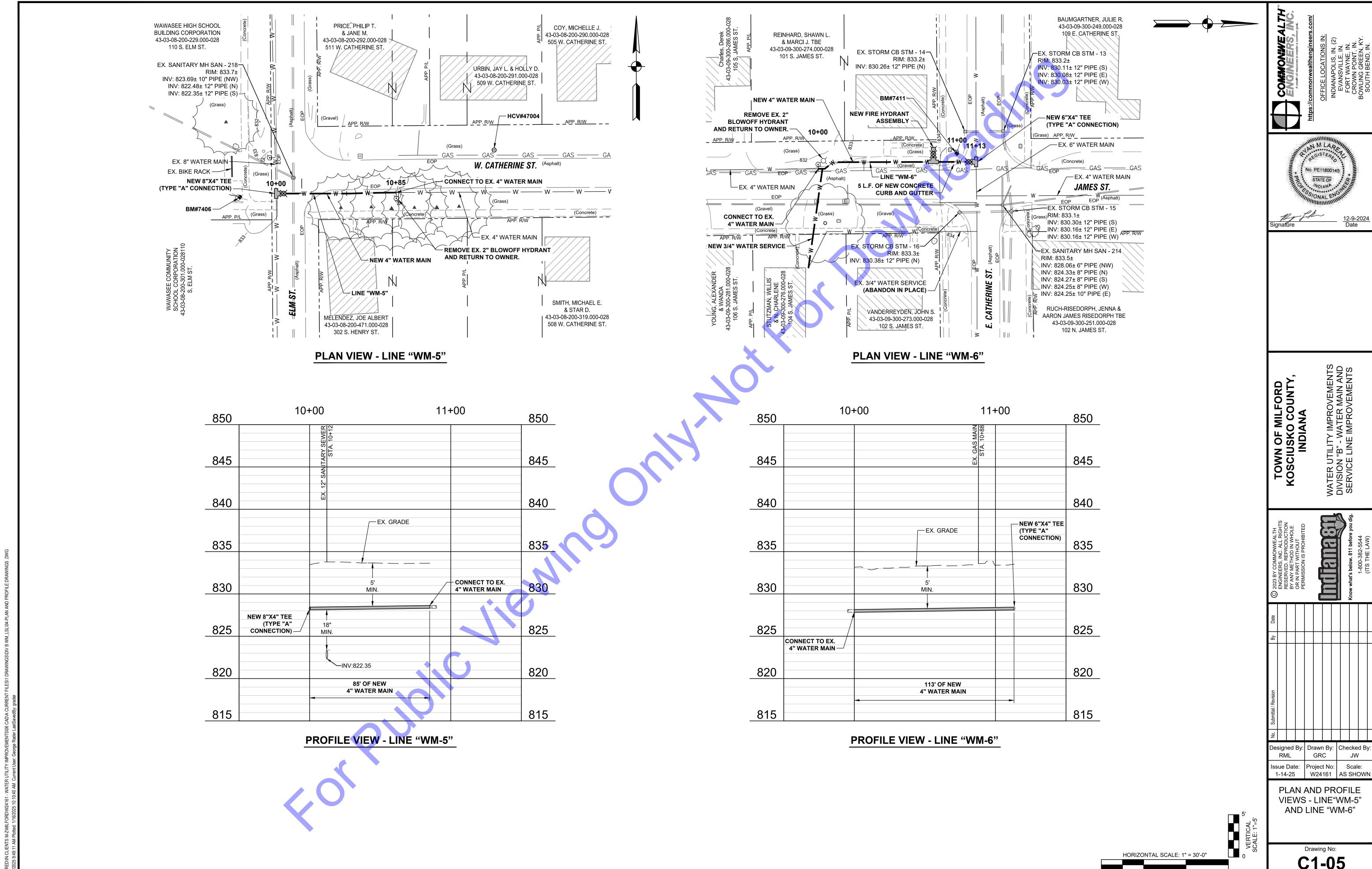
WATER UTILITY IMPROVEMENTS DIVISION "B" - WATER MAIN AND SERVICE LINE IMPROVEMENTS

Indiana811



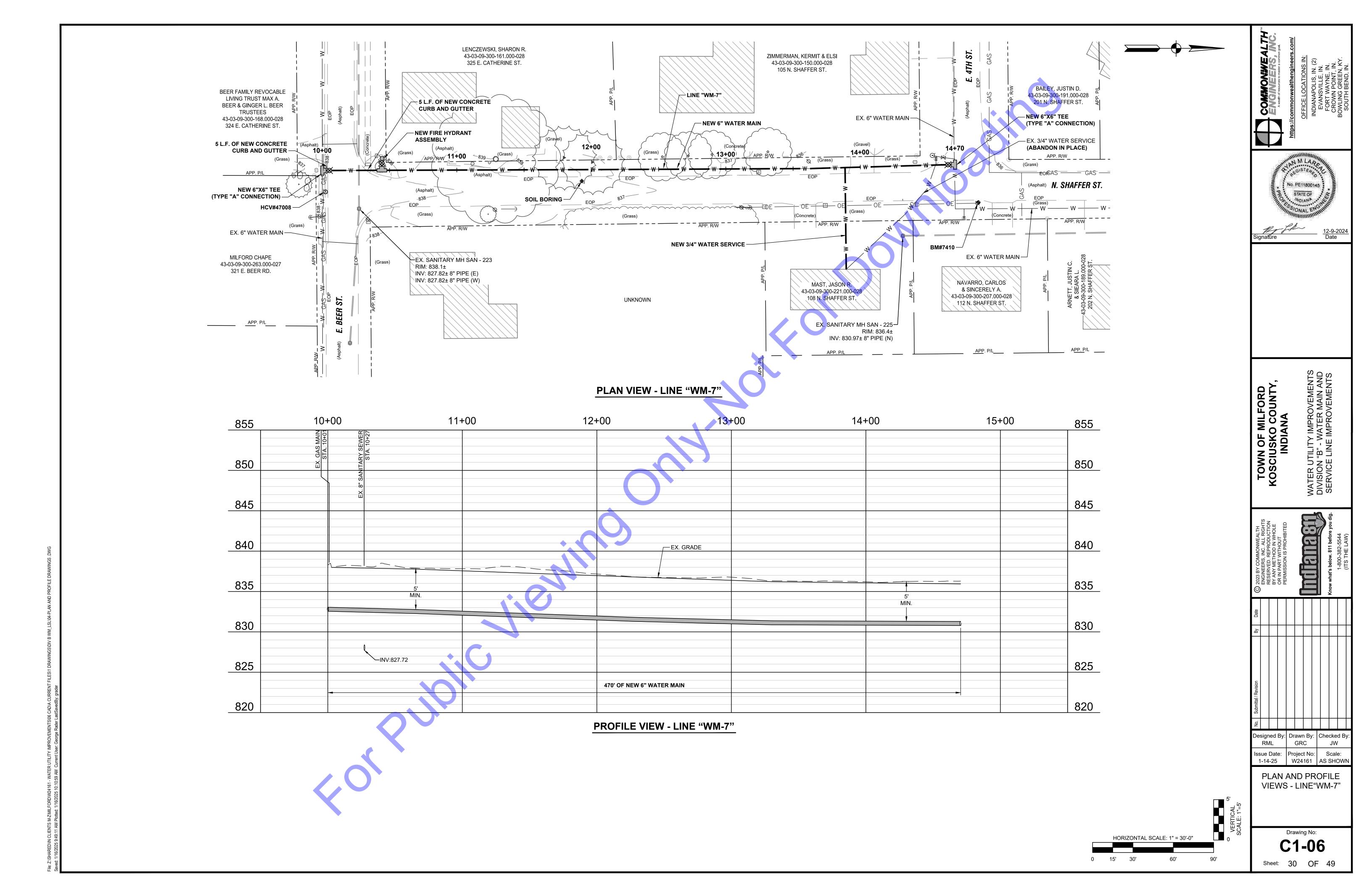
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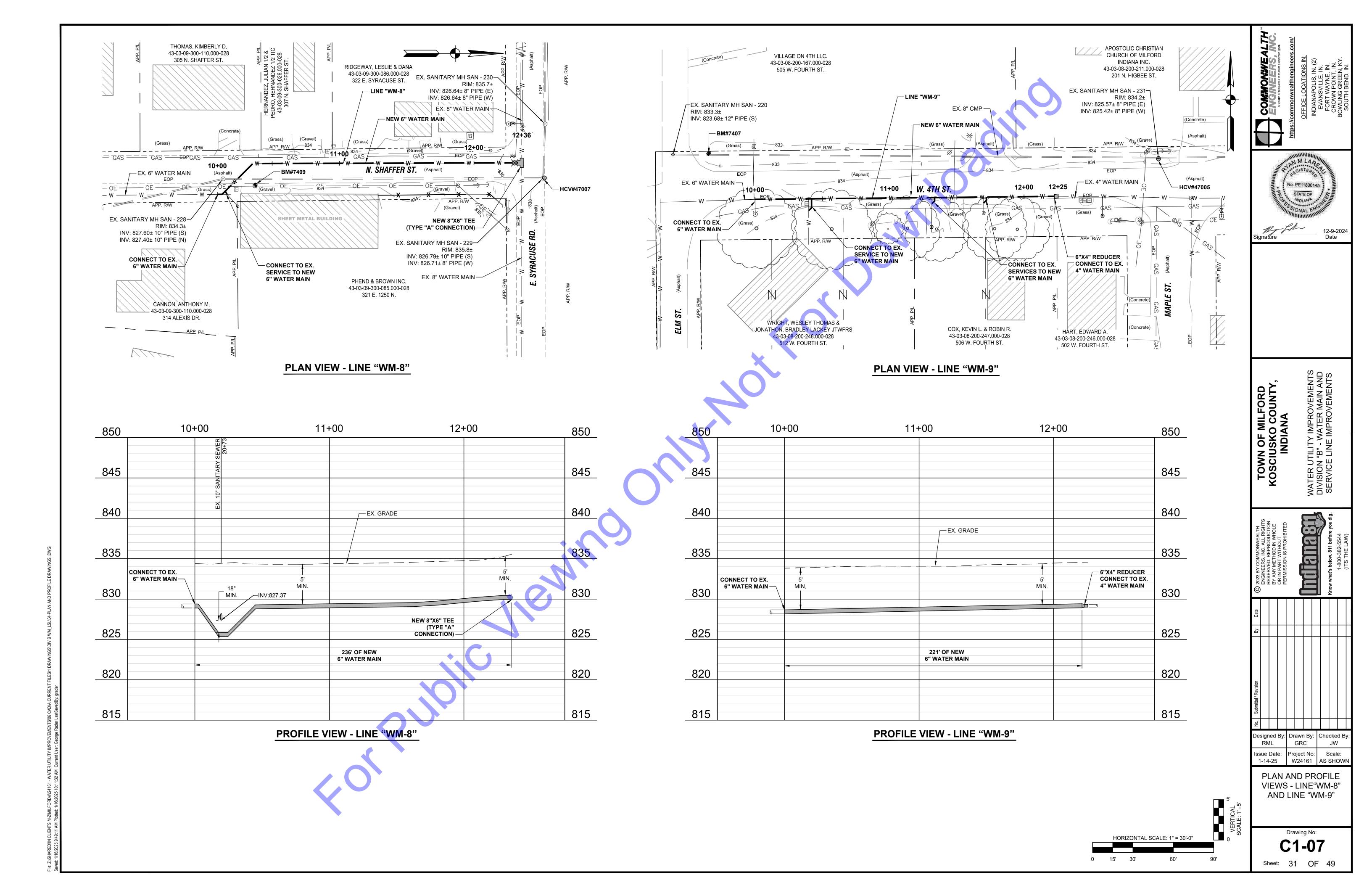
C1-04 Sheet: 28 OF 49

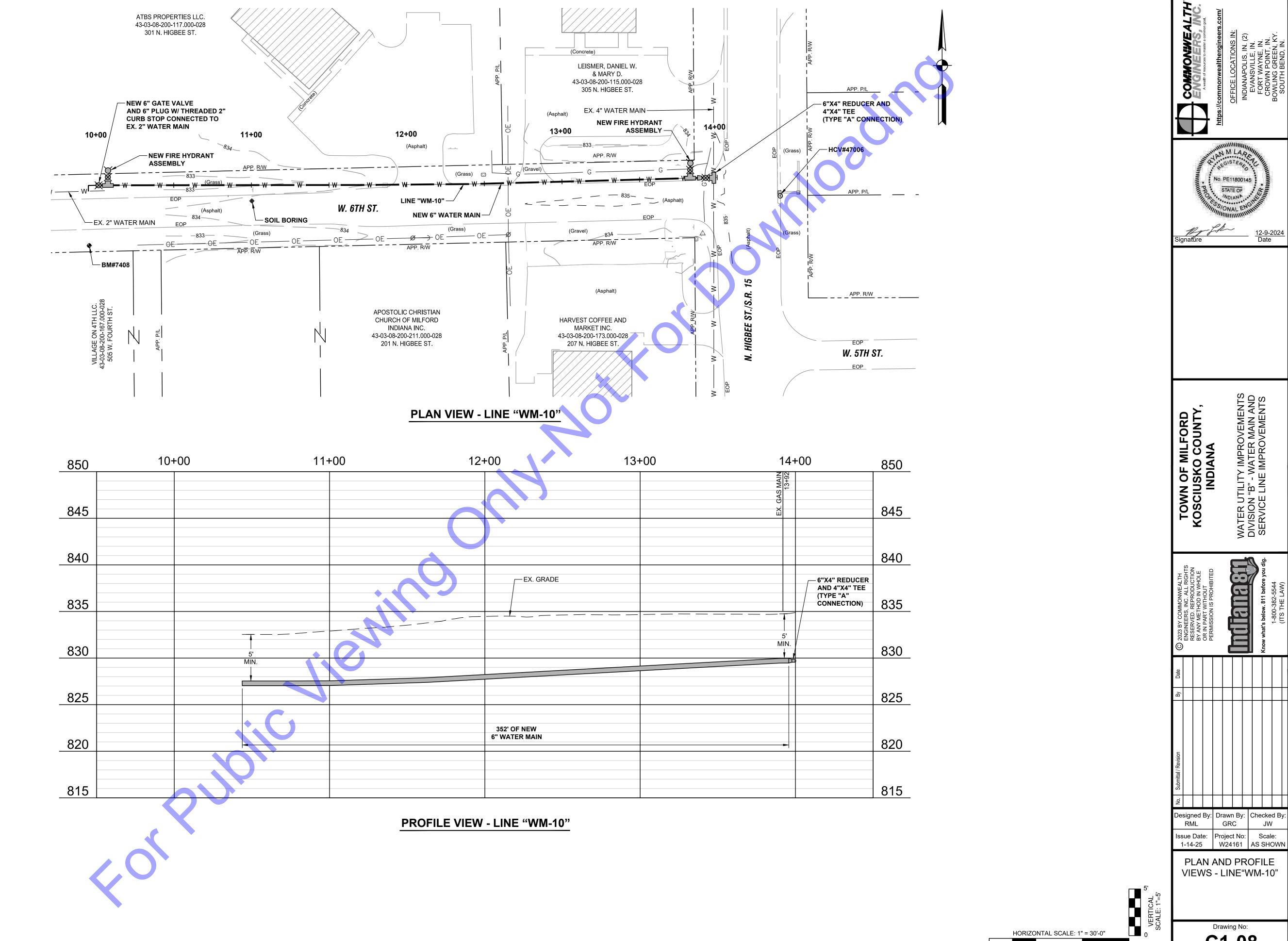


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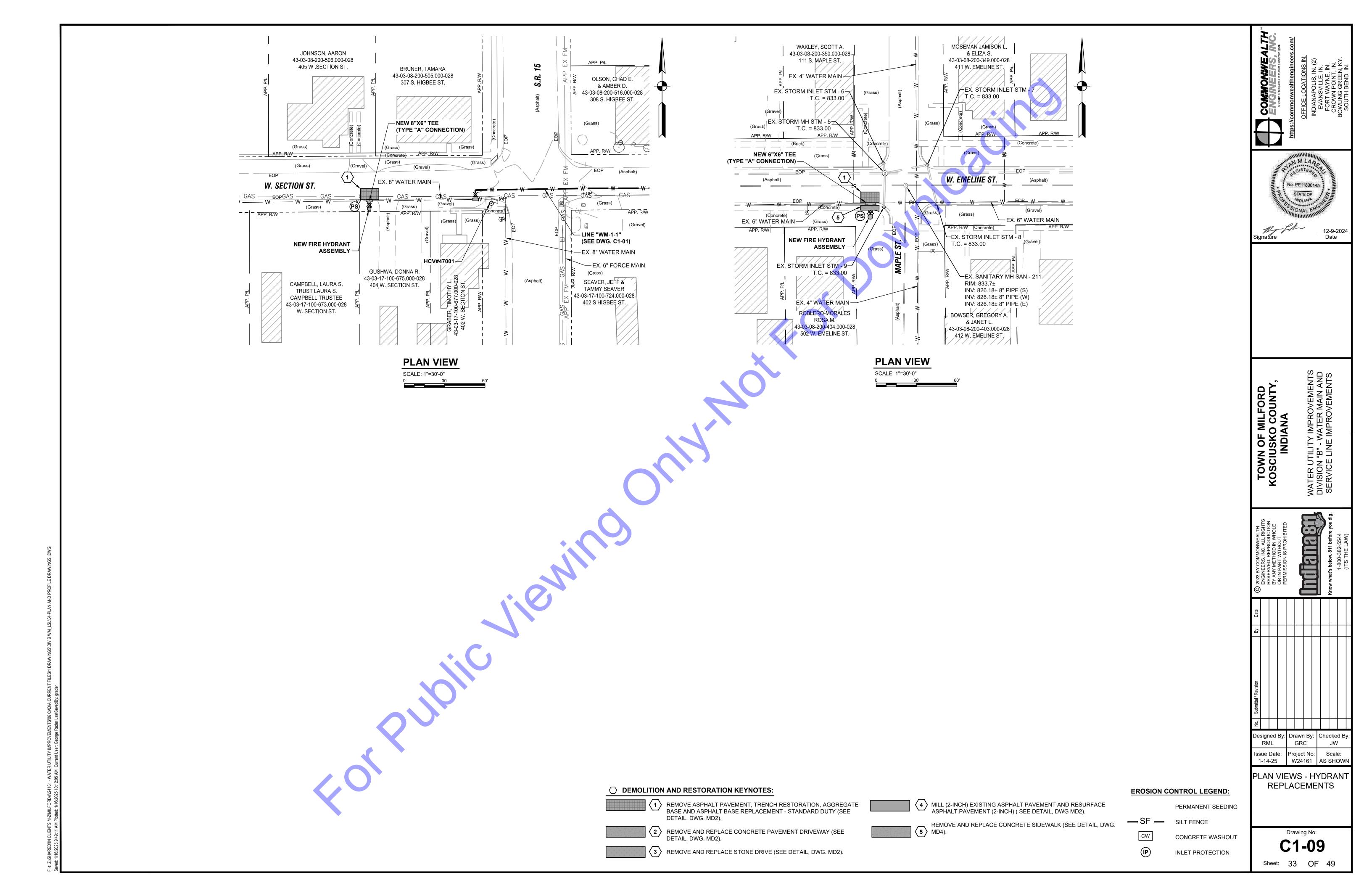
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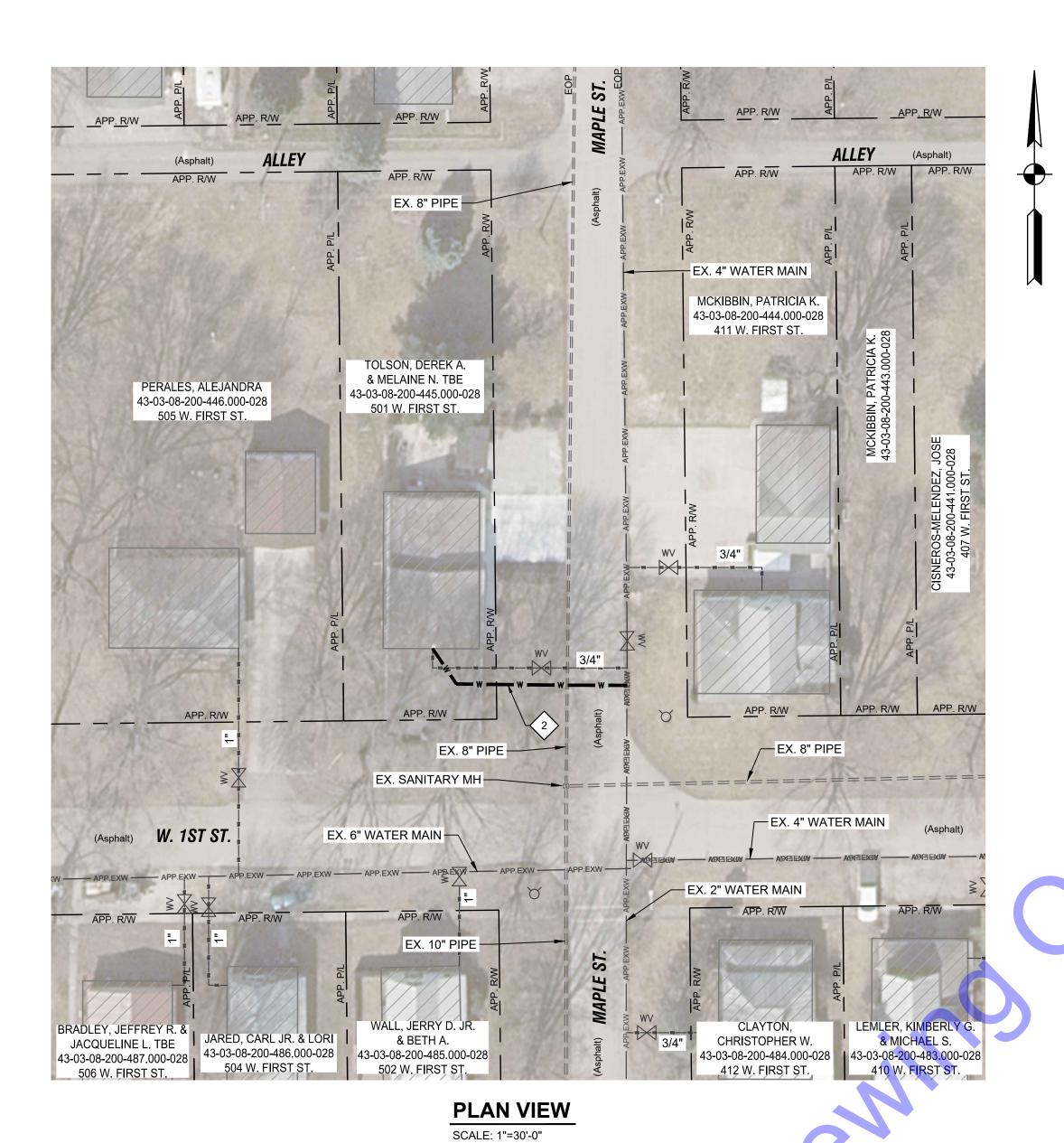
<u>LEGEND</u> LEAD SERVICE REPLACEMENT LOCATIONS

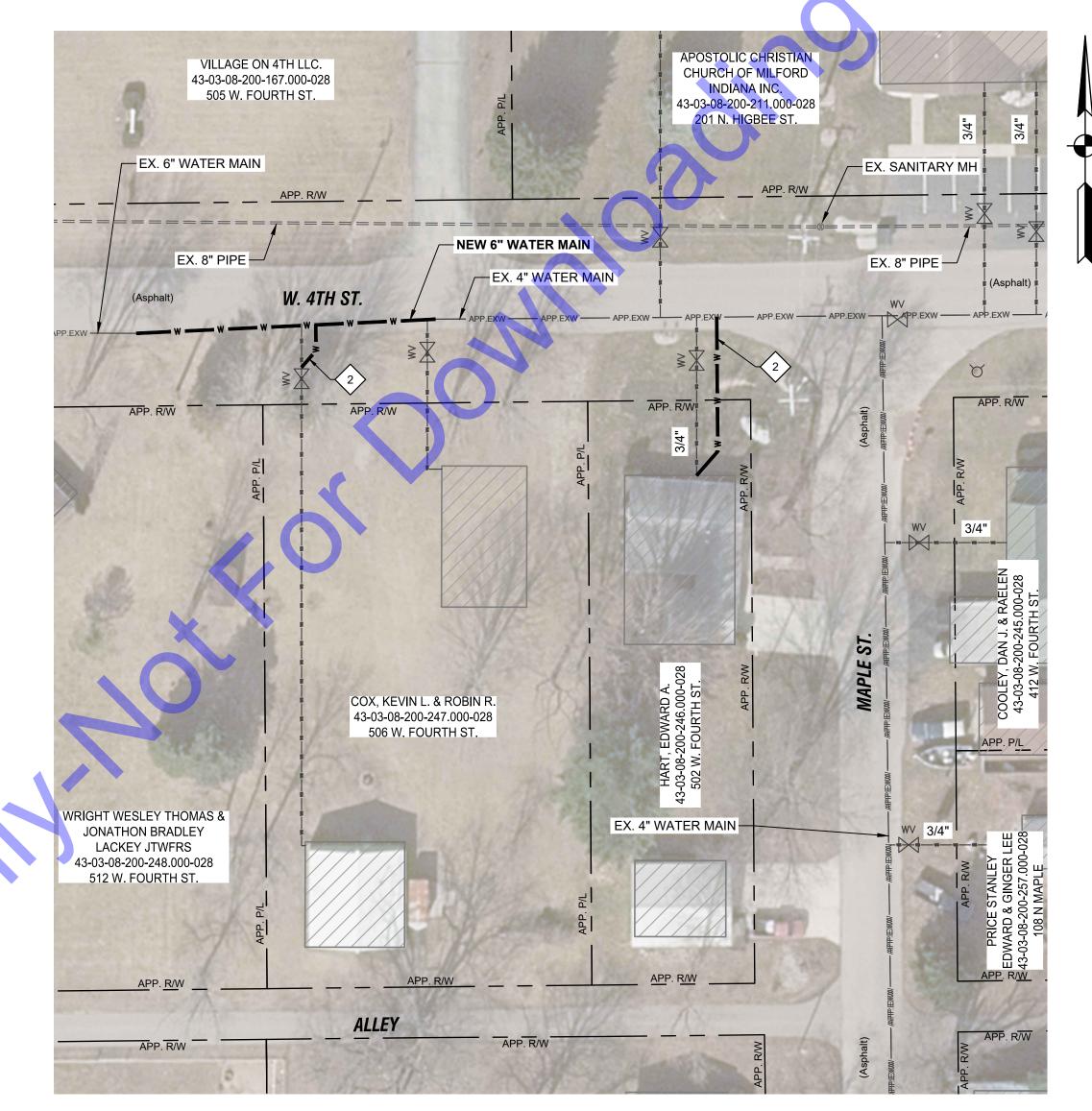
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**INSTALLATION OF NEW WATER SERVICES.** 





**PLAN VIEW** 

SCALE: 1"=30'-0"

# PROPOSED PLAN NOTES

- 1 NEW FIRE HYDRANT AND HYDRANT VALVE
- NEW 1" WATER SERVICE AND CURB STOP (SEE DETAILS, DWG. MD5)
- NEW 1" WATER SERVICE AND METER PIT (SEE DETAILS, DWG. MD4)

- ANY EXISTING STORM MANHOLES, SEWER, OR CULVERTS. IF DISTURBED OR DAMAGED, CONTRACTOR TO REPLACE TO A CONDITION EQUAL TO OR BETTER THAN
- 2. SANITARY LATERAL LOCATIONS ARE UNKNOWN. CONTRACTOR TO FIELD **VERIFY LOCATION AND DEPTH OF** EXISTING SANITARY LATERALS PRIOR TO INSTALLATION OF NEW WATER MAIN OR WATER SERVICES.
- 3. SANITARY SEWER DEPTH SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO **INSTALLATION OF NEW WATER SERVICES.**

GENERAL	NOTES:

1. CONTRACTOR TO AVOID AND PROTECT EXISTING.

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LEAD LINE SERVICE REPLACEMENT PLAN VIEW

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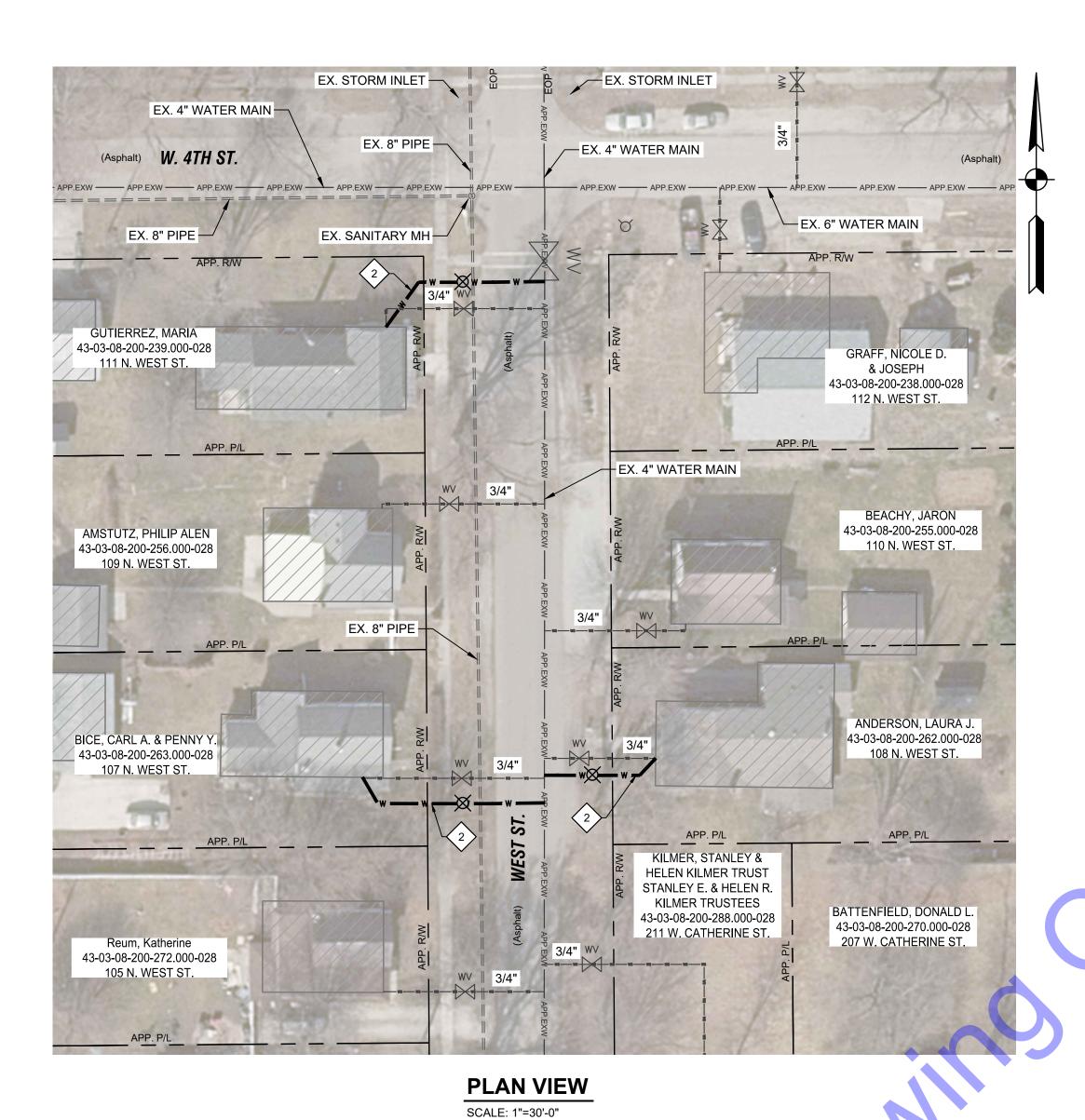
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1-14-25

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EX. 4" WATER MAIN EX. 12" PIPE APP. R/W EX. 8" PIPE — EX. STORM INLET EX. 8" PIPE — EX. STORM INLET EX. SANITARY MH-EX. STORM MH 💲 🕴 EX. 12" PIPE — EX. STORM INLET **≦** ★ EX. 4" WATER MAIN — ─EX. 4" WATER MAIN 🗟 EX. 15" PIPE — EX. STORM INLET — EX. 15" PIPE EX. STORM INLET BROWN. JOSHUA & SHANDA TBE 43-03-08-200-308.000-028 101 S. HENRY ST. EX. 4" WATER MAIN APP. P/L EX. 8" PIPE -43-03-08-200-326.000-028 MILFORD FIRST 104 S. HENRY ST. BRETHREN CHURCH 43-03-08-200-307.000-028 JIMENEZ, BLANCA 110 W. CATHERINE ST. GARCIA & JOSE J. HERNANDEZ MALDONADO 43-03-08-200-327.000-028 103 S. HENRY ST. EX. 42" PIPE -BRUNKHART, PATRICK J. 43-03-08-200-333.000-028 106 S. HENRY ST. EX. STORM INLET MINNICK, MICHAEL E. SR. & LORETTA R. 43-03-08-200-334.000-028 105 S. HENRY ST. APP. P/L APP. P/L TROYER, WENDALL W. & SHIRLEY M. 43-03-08-200-333.000-028 108 S. HENRY ST. SHELINE, JACKIE 43-03-08-200-342.000-028 107 S. HENRY ST.

PLAN VIEW

SCALE: 1"=30'-0"

PROPOSED PLAN NOTES

1 NEW FIRE HYDRANT AND HYDRANT VALVE

NEW 1" WATER SERVICE AND CURB STOP (SEE DETAILS, DWG. MD5)

NEW 1" WATER SERVICE AND METER PIT (SEE DETAILS, DWG. MD4)

### **GENERAL NOTES:**

- 1. CONTRACTOR TO AVOID AND PROTECT ANY EXISTING STORM MANHOLES, SEWER, OR CULVERTS. IF DISTURBED OR DAMAGED, CONTRACTOR TO REPLACE TO A CONDITION EQUAL TO OR BETTER THAN EXISTING.
- 2. SANITARY LATERAL LOCATIONS ARE UNKNOWN. CONTRACTOR TO FIELD **VERIFY LOCATION AND DEPTH OF** EXISTING SANITARY LATERALS PRIOR TO INSTALLATION OF NEW WATER MAIN OR WATER SERVICES.
- 3. SANITARY SEWER DEPTH SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO **INSTALLATION OF NEW WATER SERVICES.**

Signature							_	12-9-202 Date			
TOWN OF MILFORD KOSCIUSKO COUNTY, INDIANA					WATER UTILITY IMPROVEMENTS DIVISION "B" - WATER MAIN AND SERVICE LINE IMPROVEMENTS						
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LEAD LINE SERVICE

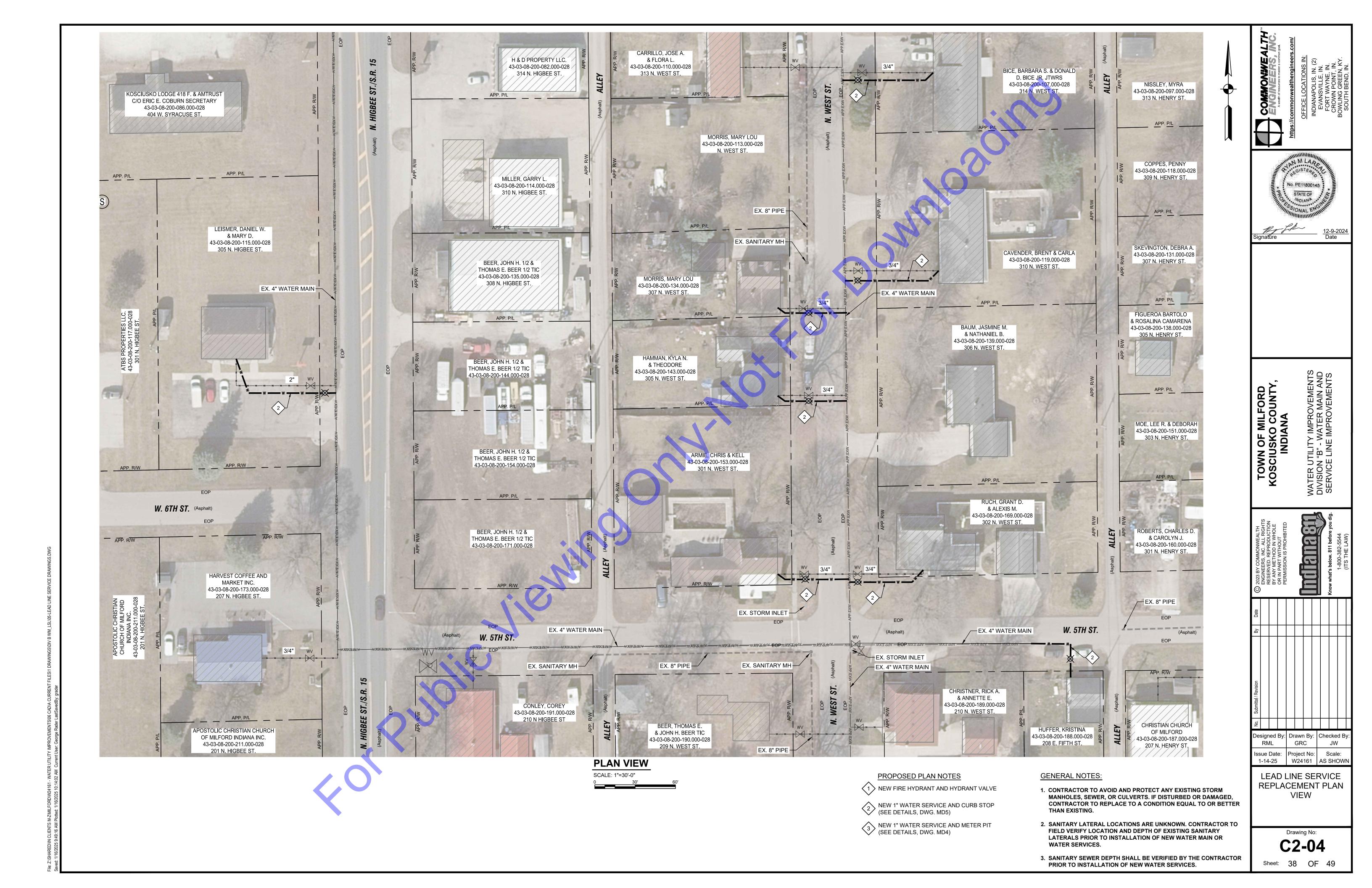
REPLACEMENT PLAN

VIEW

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C2-03

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(1) NEW FIRE HYDRANT AND HYDRANT VALVE

NEW 1" WATER SERVICE AND CURB STOP (SEE DETAILS, DWG. MD5)

NEW 1" WATER SERVICE AND METER PIT (SEE DETAILS, DWG. MD4)

1. CONTRACTOR TO AVOID AND PROTECT OR CULVERTS. IF DISTURBED OR

2. SANITARY LATERAL LOCATIONS ARE UNKNOWN. CONTRACTOR TO FIELD **VERIFY LOCATION AND DEPTH OF** EXISTING SANITARY LATERALS PRIOR TO INSTALLATION OF NEW WATER MAIN OR

3. SANITARY SEWER DEPTH SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION OF NEW WATER SERVICES.

**GENERAL NOTES:** 

ANY EXISTING STORM MANHOLES, SEWER, DAMAGED, CONTRACTOR TO REPLACE TO A CONDITION EQUAL TO OR BETTER THAN EXISTING.

WATER SERVICES.

ssue Date: Project No: Scale: 1-14-25 W24161 AS SHOWN

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TOWN OF MILFORD KOSCIUSKO COUNTY, INDIANA

LEAD LINE SERVICE REPLACEMENT PLAN VIEW

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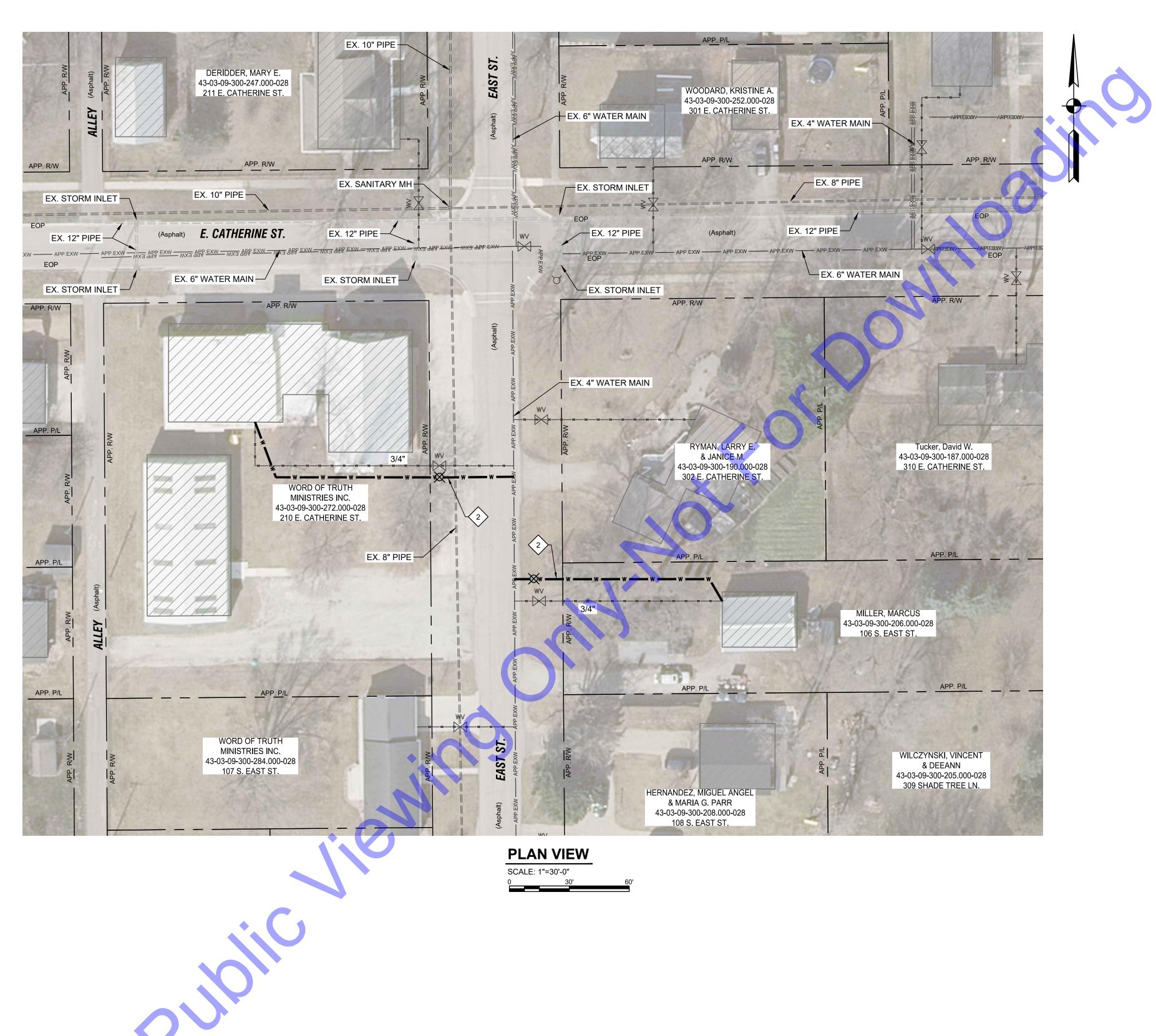
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**INSTALLATION OF NEW WATER SERVICES.** 



### PROPOSED PLAN NOTES

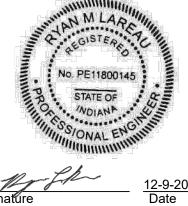
1 NEW FIRE HYDRANT AND HYDRANT VALVE

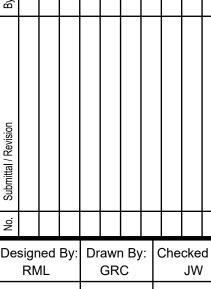
NEW 1" WATER SERVICE AND CURB STOP (SEE DETAILS, DWG. MD5)

NEW 1" WATER SERVICE AND METER PIT (SEE DETAILS, DWG. MD4)

### **GENERAL NOTES:**

- 1. CONTRACTOR TO AVOID AND PROTECT ANY EXISTING STORM MANHOLES, SEWER, OR CULVERTS. IF DISTURBED OR DAMAGED, CONTRACTOR TO REPLACE TO A CONDITION EQUAL TO OR BETTER THAN EXISTING.
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- 3. SANITARY SEWER DEPTH SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO **INSTALLATION OF NEW WATER SERVICES.**
- - WATER SERVICES.





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LEAD LINE SERVICE REPLACEMENT PLAN VIEW

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OFFICE LOCATIONS IN:
INDIANAPOLIS, IN. (2)
EVANSVILLE, IN.
FORT WAYNE, IN.



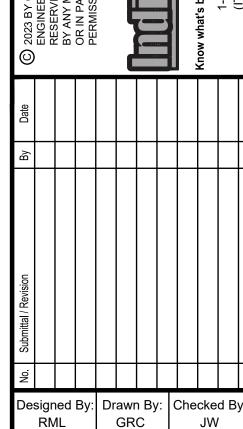
Marie 12-9-2024
Date

SCIUSKO COUNTY, INDIANA

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Ssue Date: Project No: Scale: W24161 AS SHOWN

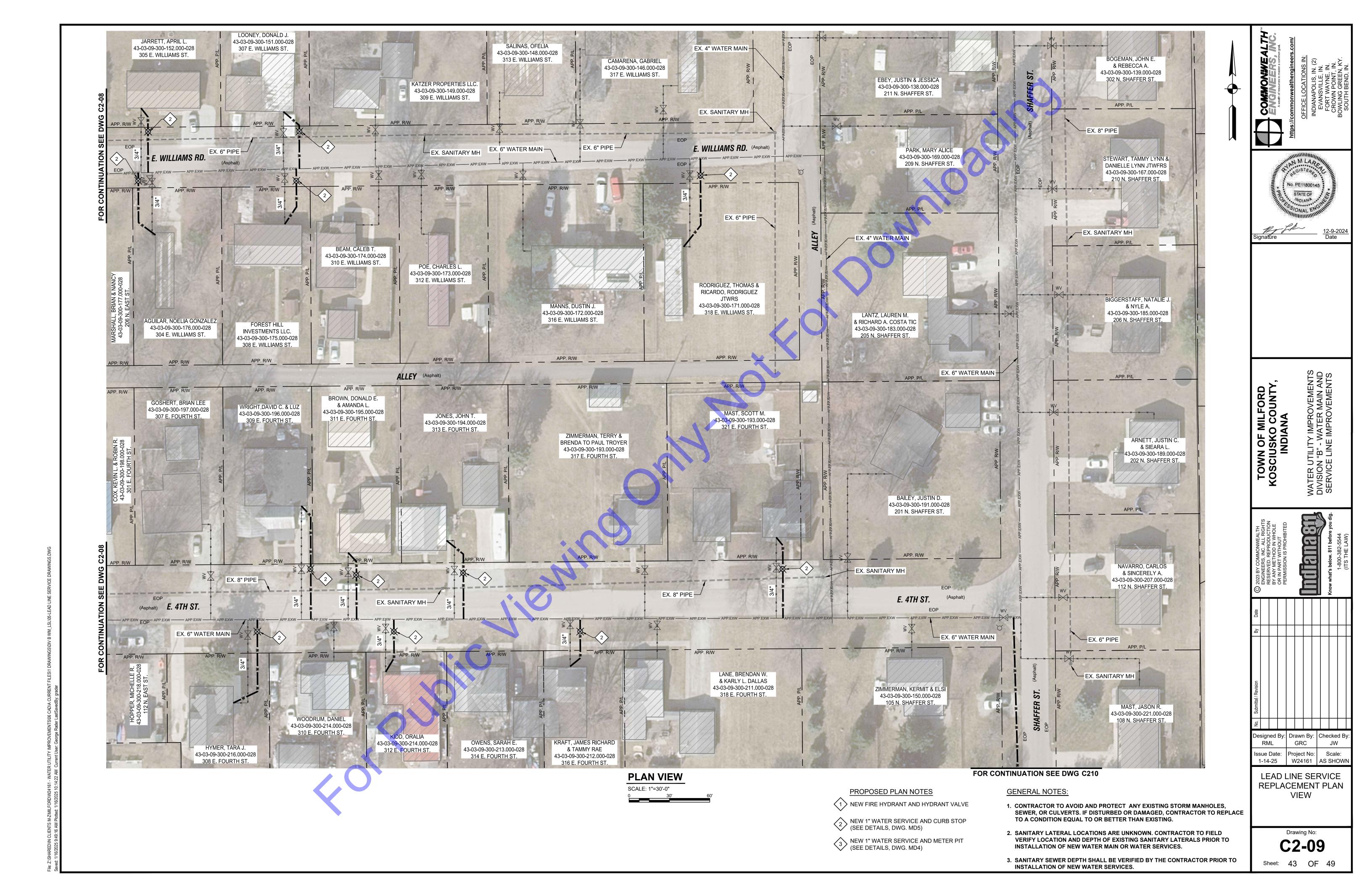
REPLACEMENT PLAN VIEW

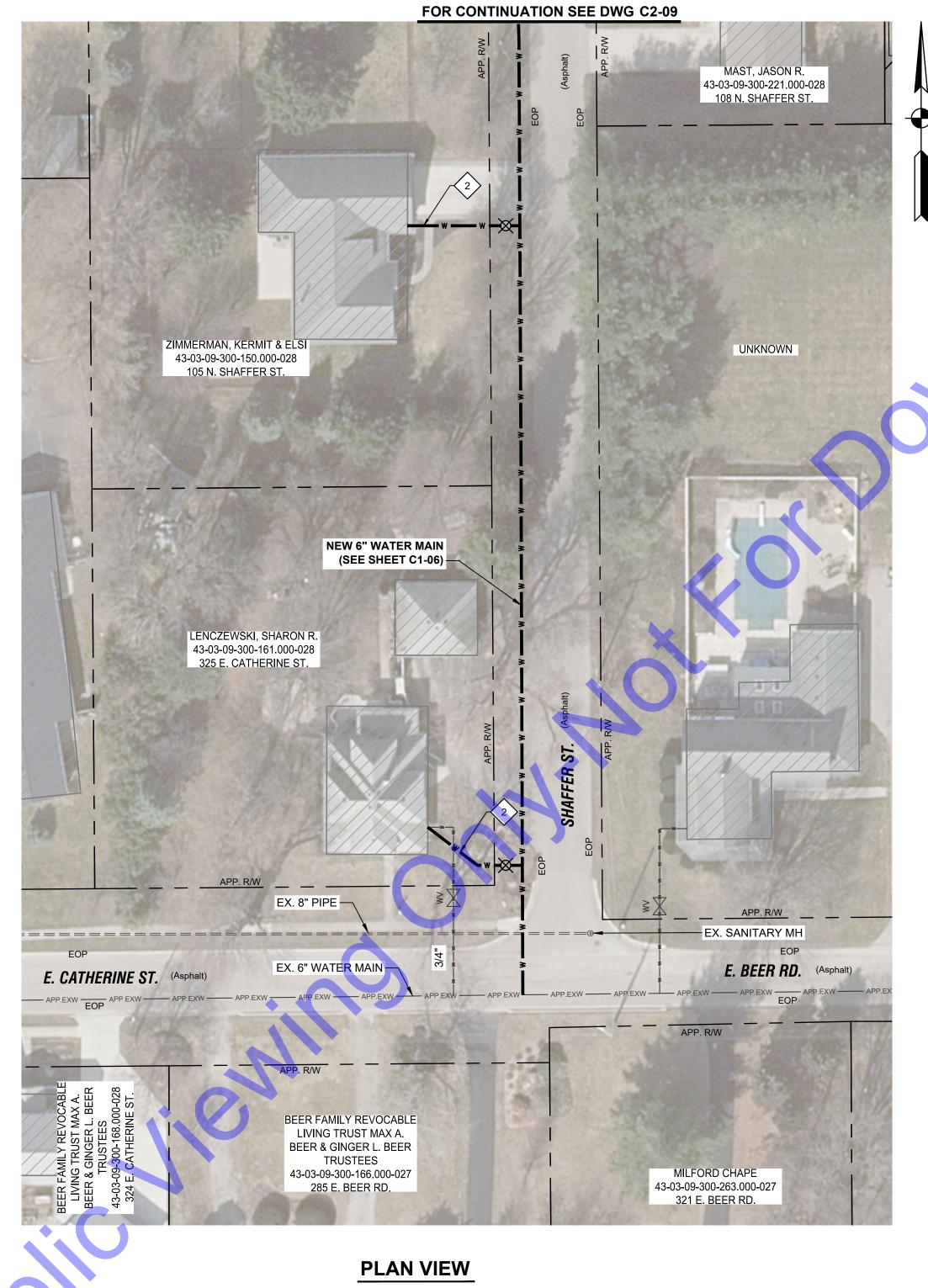
C2-08

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3. SANITARY SEWER DEPTH SHALL BE VERIFIED BY THE CONTRACTOR

PRIOR TO INSTALLATION OF NEW WATER SERVICES.





SCALE: 1"=30'-0"

### PROPOSED PLAN NOTES

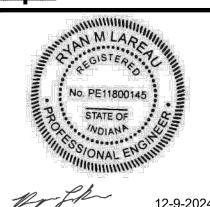
1 NEW FIRE HYDRANT AND HYDRANT VALVE

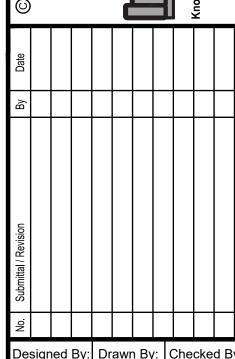
NEW 1" WATER SERVICE AND CURB STOP (SEE DETAILS, DWG. MD5)

NEW 1" WATER SERVICE AND METER PIT (SEE DETAILS, DWG. MD4)

### **GENERAL NOTES:**

- 1. CONTRACTOR TO AVOID AND PROTECT ANY EXISTING STORM MANHOLES, SEWER, OR CULVERTS. IF DISTURBED OR DAMAGED, CONTRACTOR TO REPLACE TO A CONDITION EQUAL TO OR BETTER THAN EXISTING.
- 2. SANITARY LATERAL LOCATIONS ARE UNKNOWN. CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF EXISTING SANITARY LATERALS PRIOR TO INSTALLATION OF NEW WATER MAIN OR WATER SERVICES.
- 3. SANITARY SEWER DEPTH SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO **INSTALLATION OF NEW WATER SERVICES.**



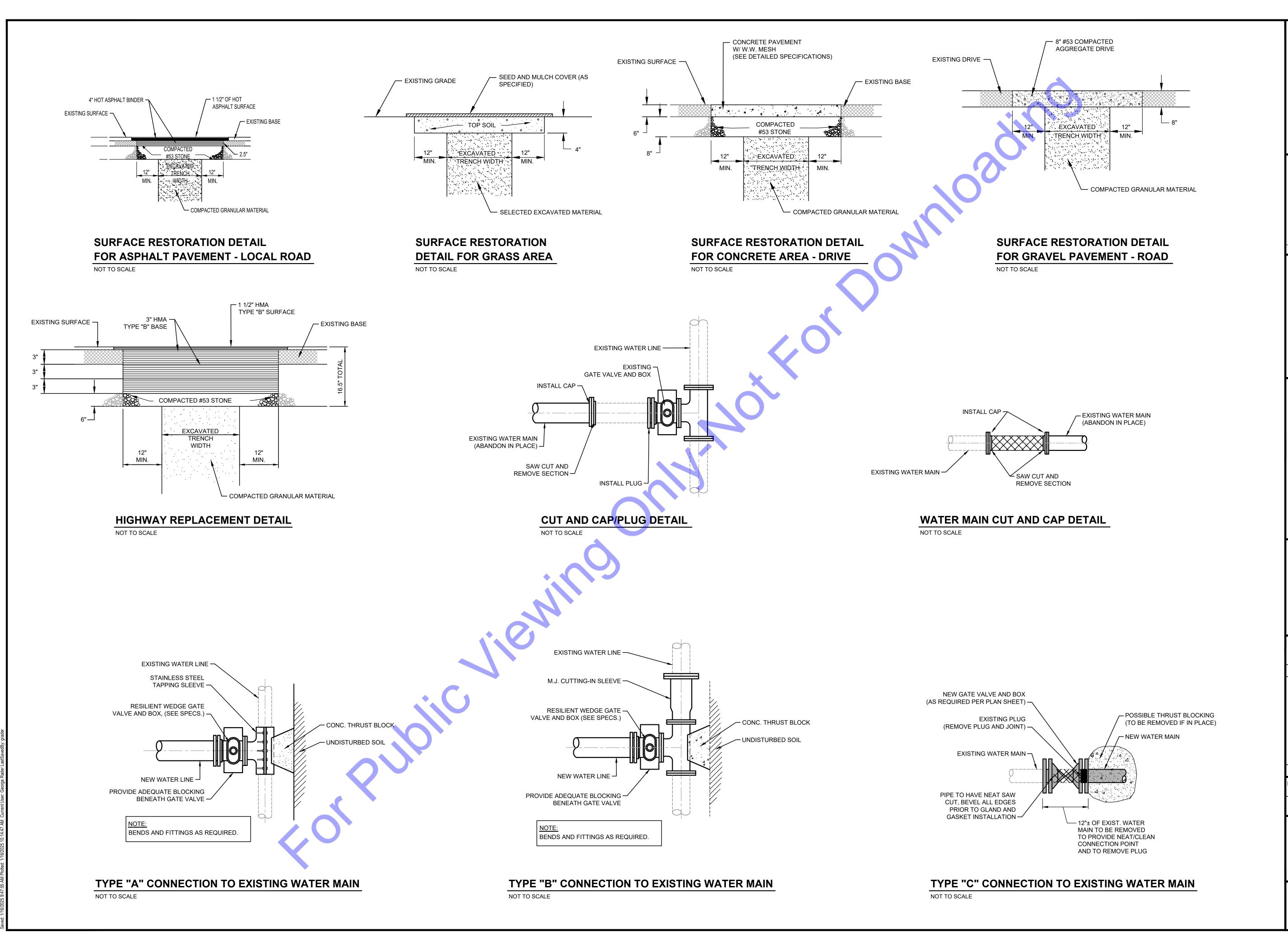


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LEAD LINE SERVICE REPLACEMENT PLAN VIEW

> Drawing No: C2-10

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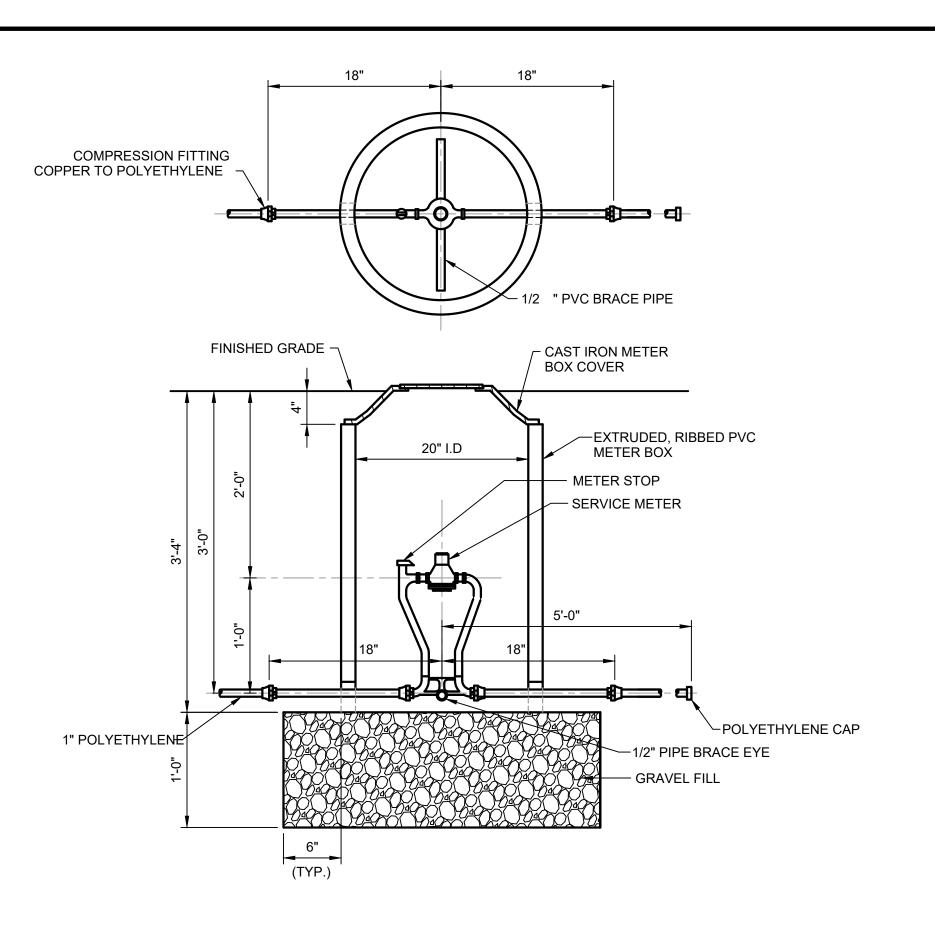
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MISCELLANEOUS

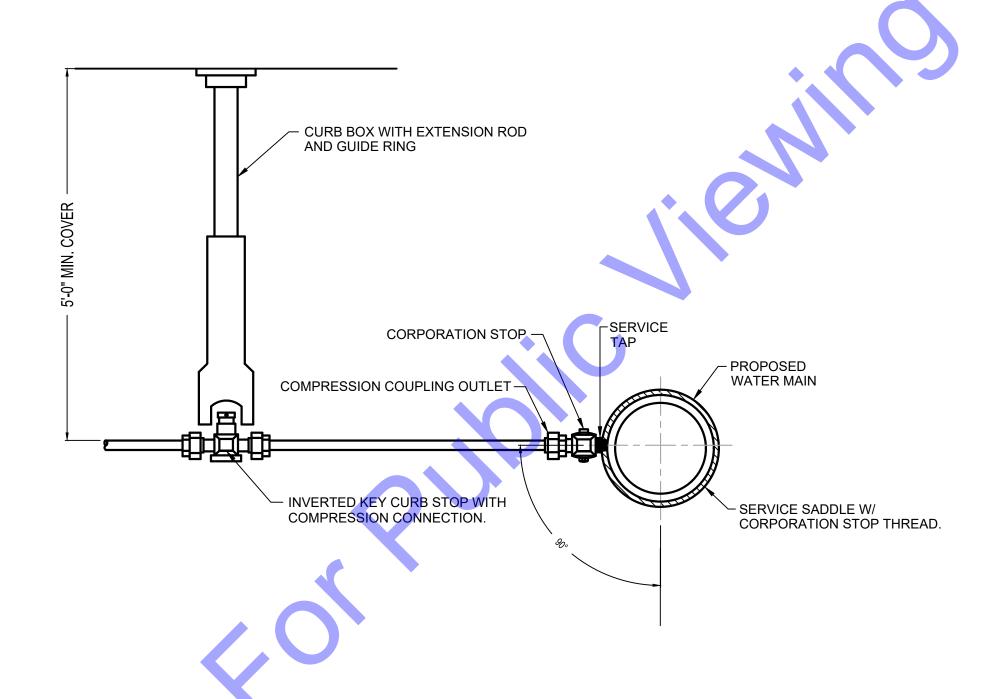
DETAILS

MD1

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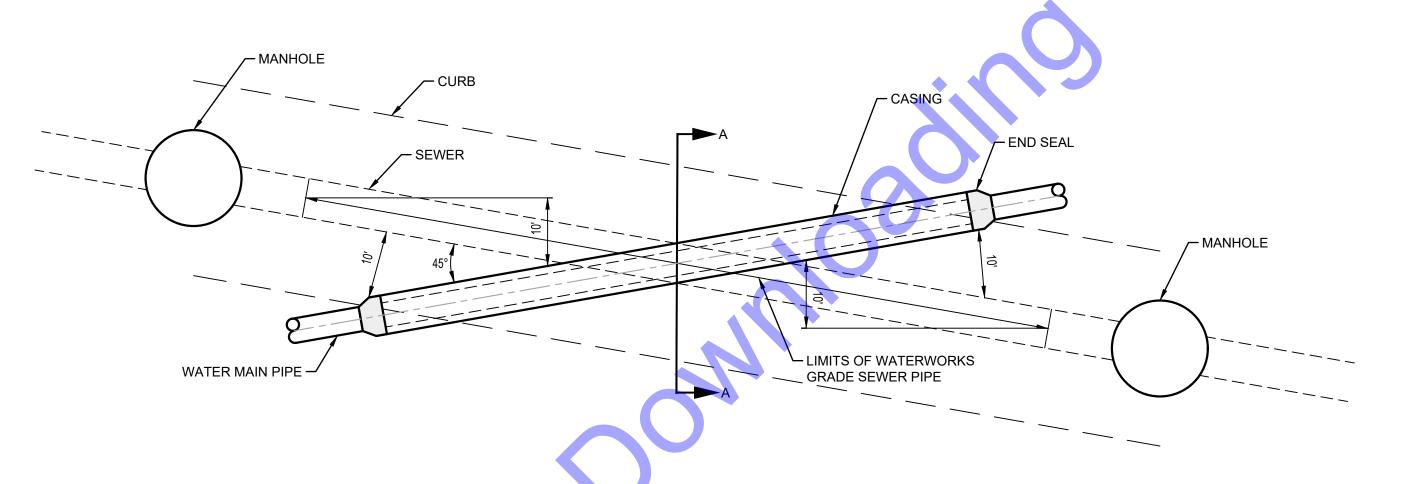


#### **METER INSTALLATION DETAIL** NOT TO SCALE



### WATER SERVICE WITH CURB BOX DETAIL

NOT TO SCALE



# — WATER MAIN PIPE - CASING (SEE SPEC.) STAINLESS STEEL CASING SPACERS @ 5'-0" MAX. INTERVALS -WITH WATERWORKS GRADE SEWER PIPING NOT LESS THAN 6" -─ WITH CASING NOT LESS THAN 6"

PLAN

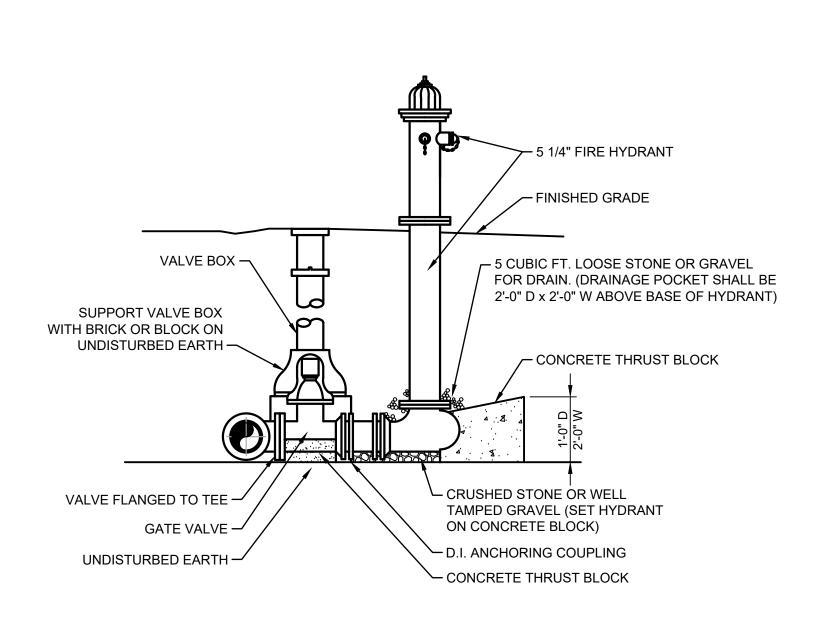
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### WATER-HORIZONTAL SEPARATION FROM SEWERS

**SECTION A** 

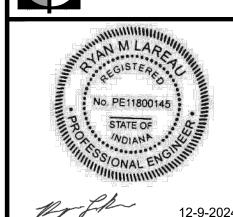
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NOT TO SCALE



### FIRE HYDRANT DETAIL

NOT TO SCALE



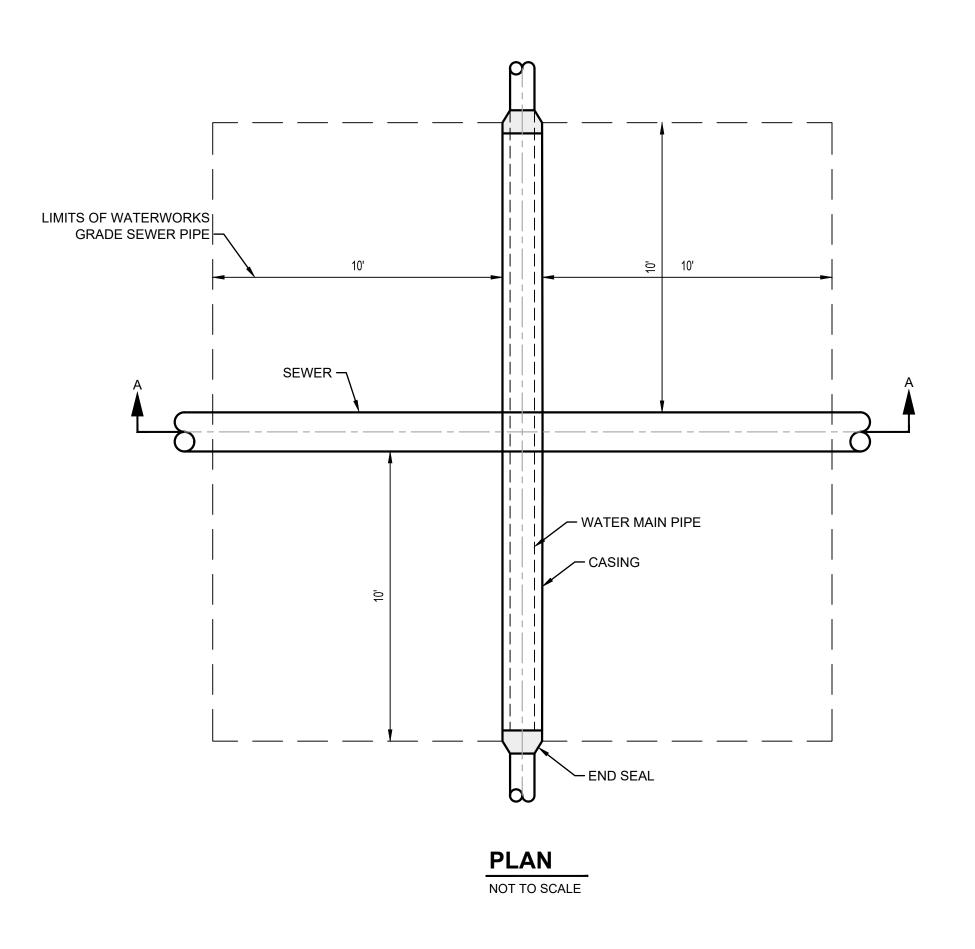
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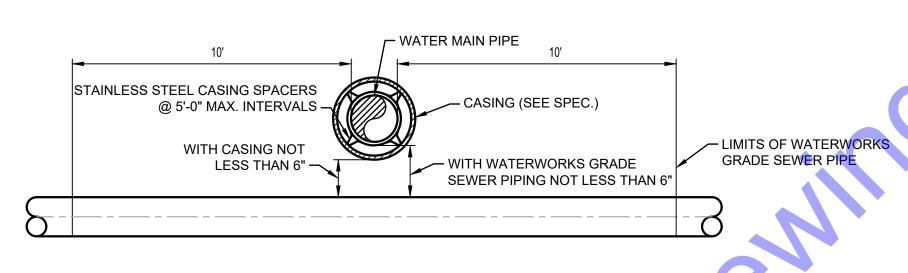
**MISCELLANEOUS** DETAILS

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MD2

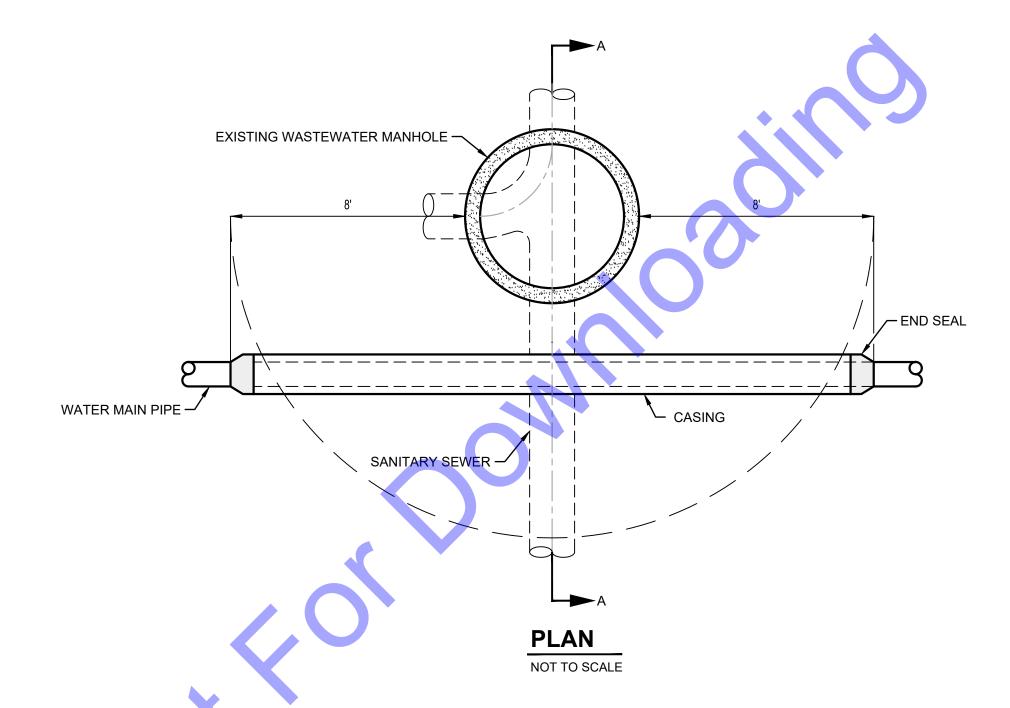
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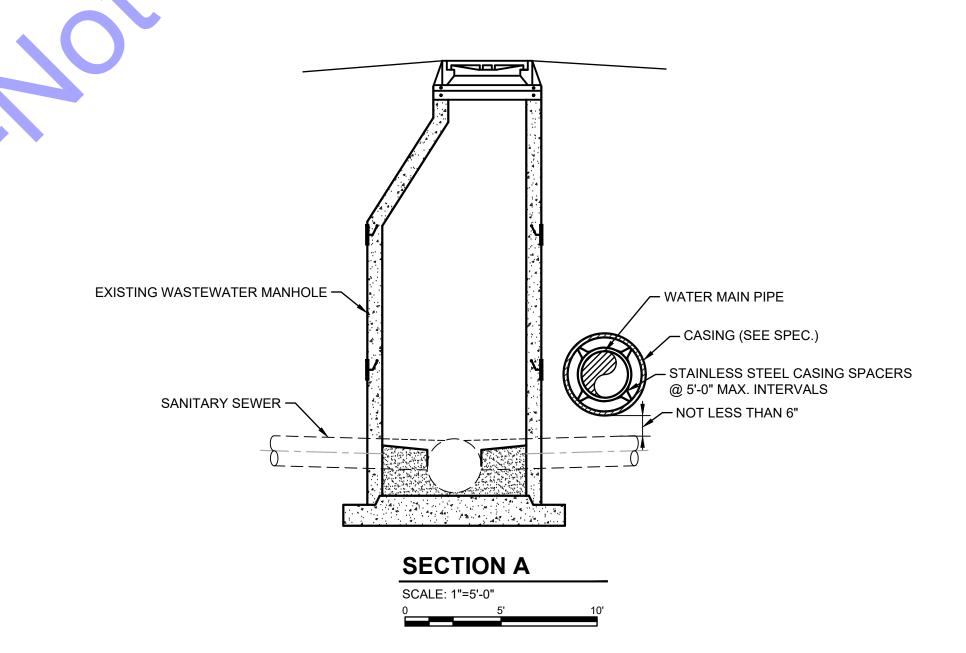




### SECTION A NOT TO SCALE

### WATER-VERTICAL SEPARATION FROM SEWERS NOT TO SCALE





WATER-HORIZONTAL SEPARATION
FROM EXISTING WASTEWATER MANHOLES
NOT TO SCALE

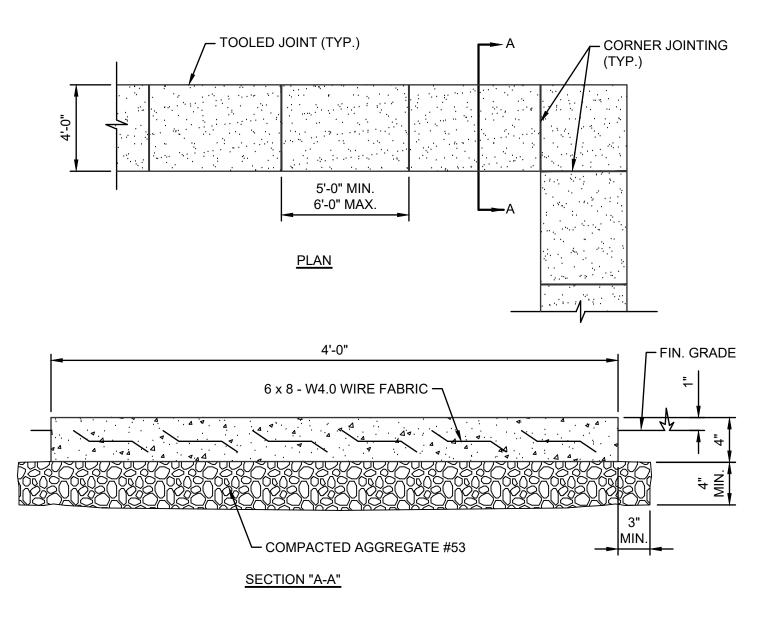
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MISCELLANEOUS DETAILS

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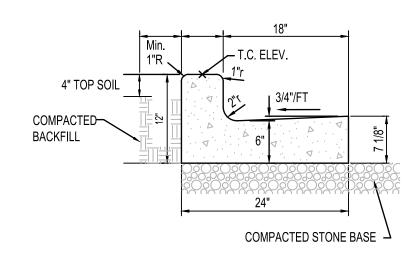


#### GENERAL NOTES

- TRANSVERSE JOINTS SHALL BE CUT WITH A JOINTER HAVING A RADIUS OF 1/4" AT SPACING AT A MINIMUM OF 6'-0"
- 2. SIDEWALK SHALL BE 6" THICK WITH 8" OF COMPACTED AGGREGATE No. 53 AT ALL DRIVEWAY CROSSINGS
- 3. SIDE SLOPE SHALL BE 1/4" / FT

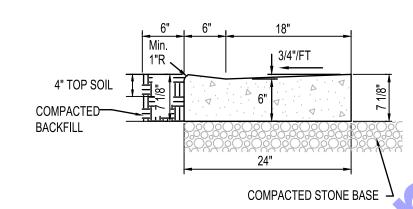
### **CONCRETE SIDEWALK DETAIL**

NOT TO SCALE



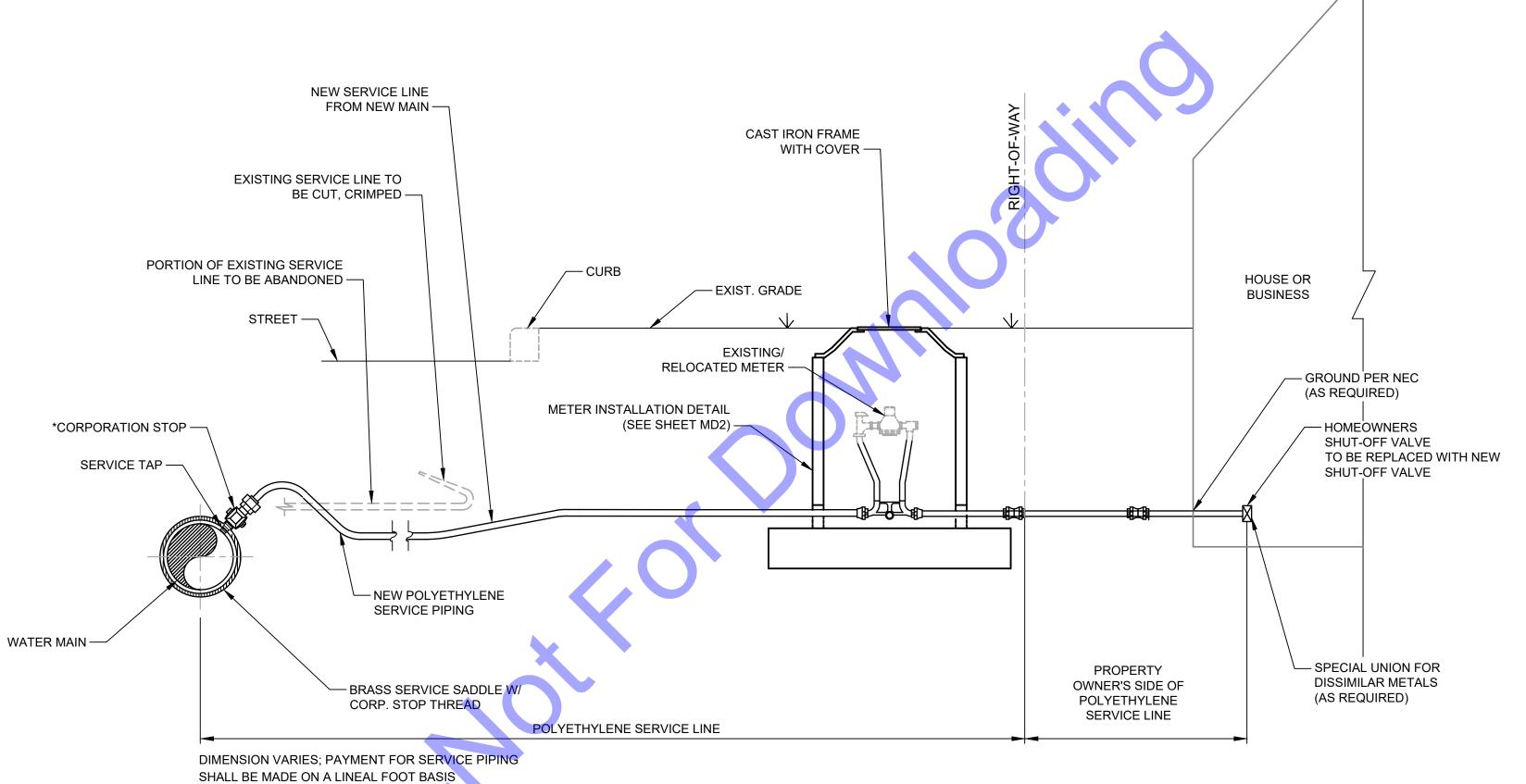
### TYPICAL CONCRETE CURB AND GUTTER DETAIL

NOT TO SCALE



# TYPICAL CONCRETE DEPRESSED CURB AND GUTTER DETAIL

NOT TO SCALE

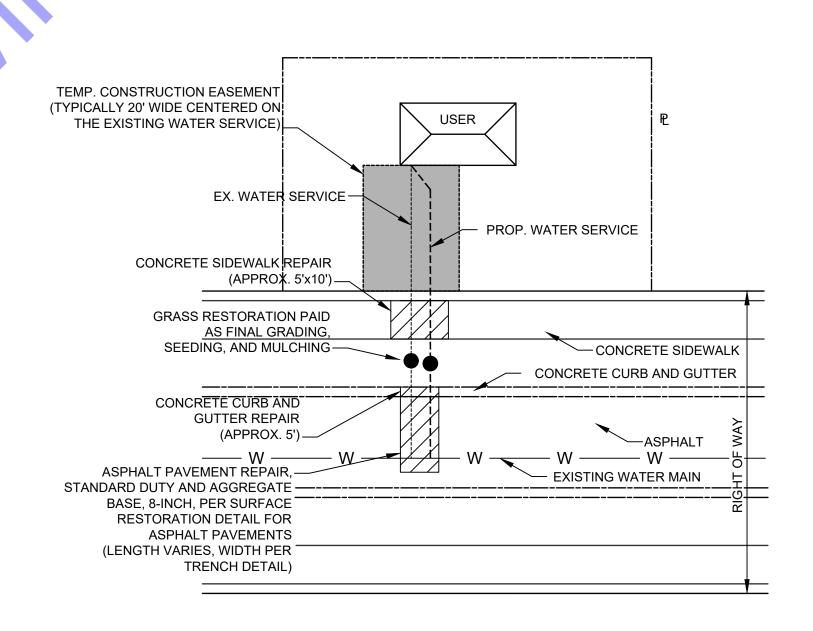


#### **GENERAL NOTES:**

- 1. CORPORATION STOP SHALL BE FORD.
- 2. NEW METER PIT SHALL HAVE ANGLE SHUT OFF ON TOWN SIDE OF PIT.
- 3. ALL ABANDONED CORP. STOPS SHALL BE PLUGGED.

## TYPICAL SERVICE TAP, SERVICE LINE AND RECONNECTION DETAIL

NOT TO SCALE



#### NOTES

PAYMENT FOR RESTORATION ITEMS OUTSIDE OF THE RIGHT OF WAY TO BE INCLUDED IN THE COST OF THE WATER SERVICE AS DETAILED IN THE SPECIFICATIONS. THIS INCLUDES RESTORATION FOR ALL ITEMS INCLUDING HARD SURFACES, GRASS AREAS, LANDSCAPING, ETC.

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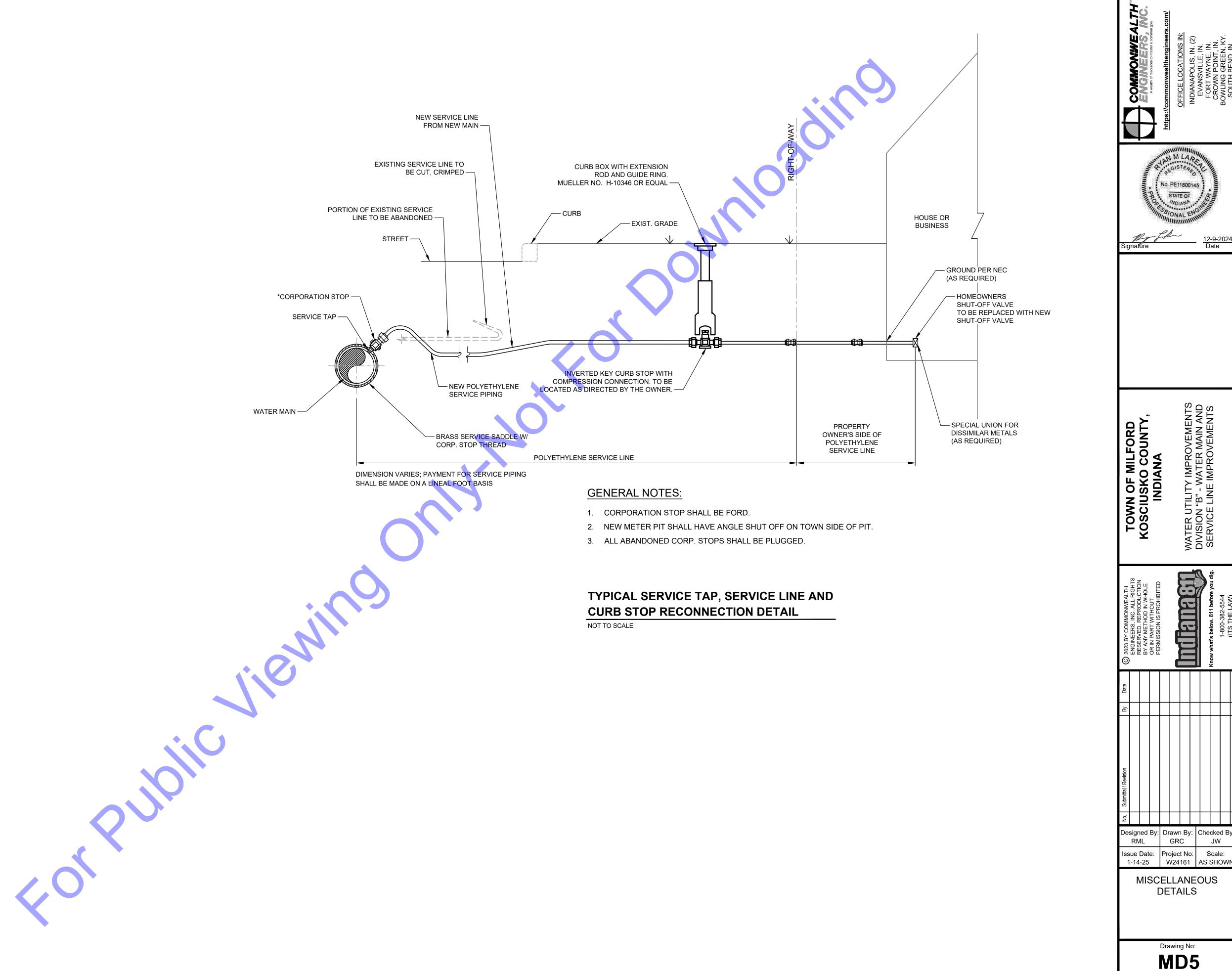
TYPICAL WATER SERVICE REPLACEMENT PAY ITEM DETAIL

NOT TO SCALE

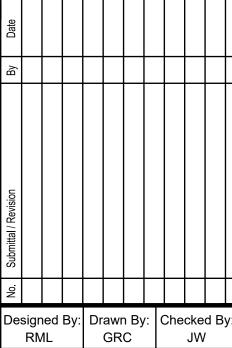
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MD4

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MISCELLANEOUS DETAILS

MD5

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