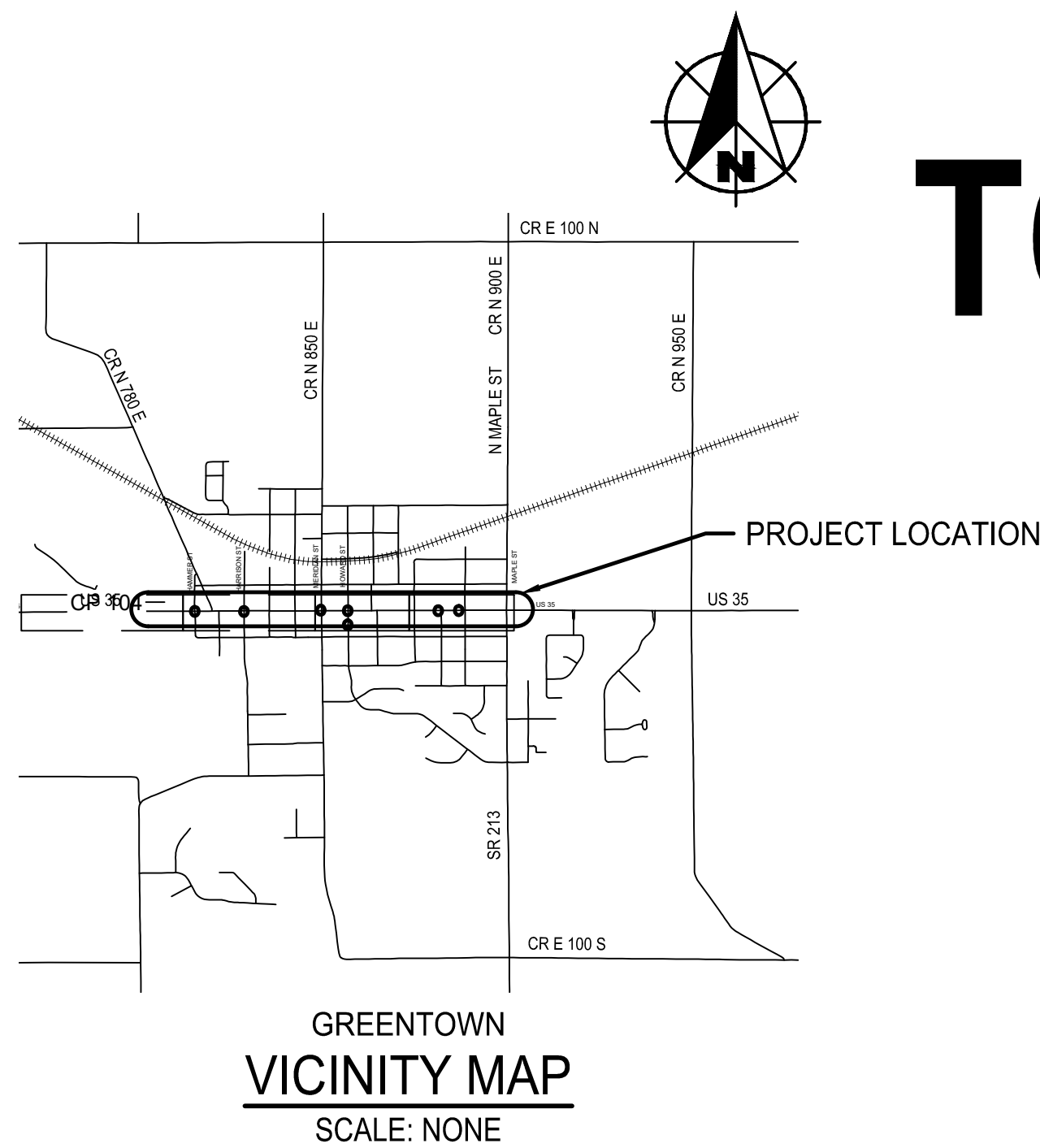
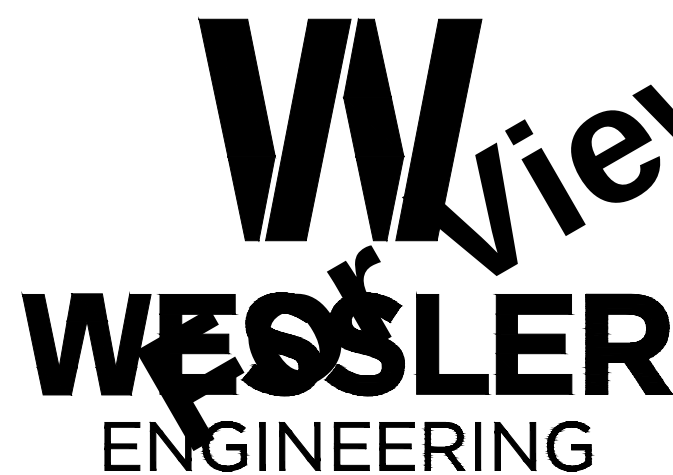


US 35 WATER MAIN REPLACEMENTS FOR THE TOWN OF GREENTOWN, INDIANA



INDIANA FINANCE AUTHORITY
STATE REVOLVING FUND LOAN PROGRAM
PROJECT NO. DW 15 1734 01



More than a Project™
INDIANAPOLIS
6219 South East Street
Indianapolis, Indiana 46227
Phone: (317) 788-4551 - Fax: (317) 788-4553
www.wesslerengineering.com

PROJECT NO. 192616-04-004

DRAWINGS PREPARED FOR:

TOWN COUNCIL

SCOTT DEYOE, PRESIDENT

MARK LANTZ, VICE PRESIDENT

DON DOWNS, MEMBER

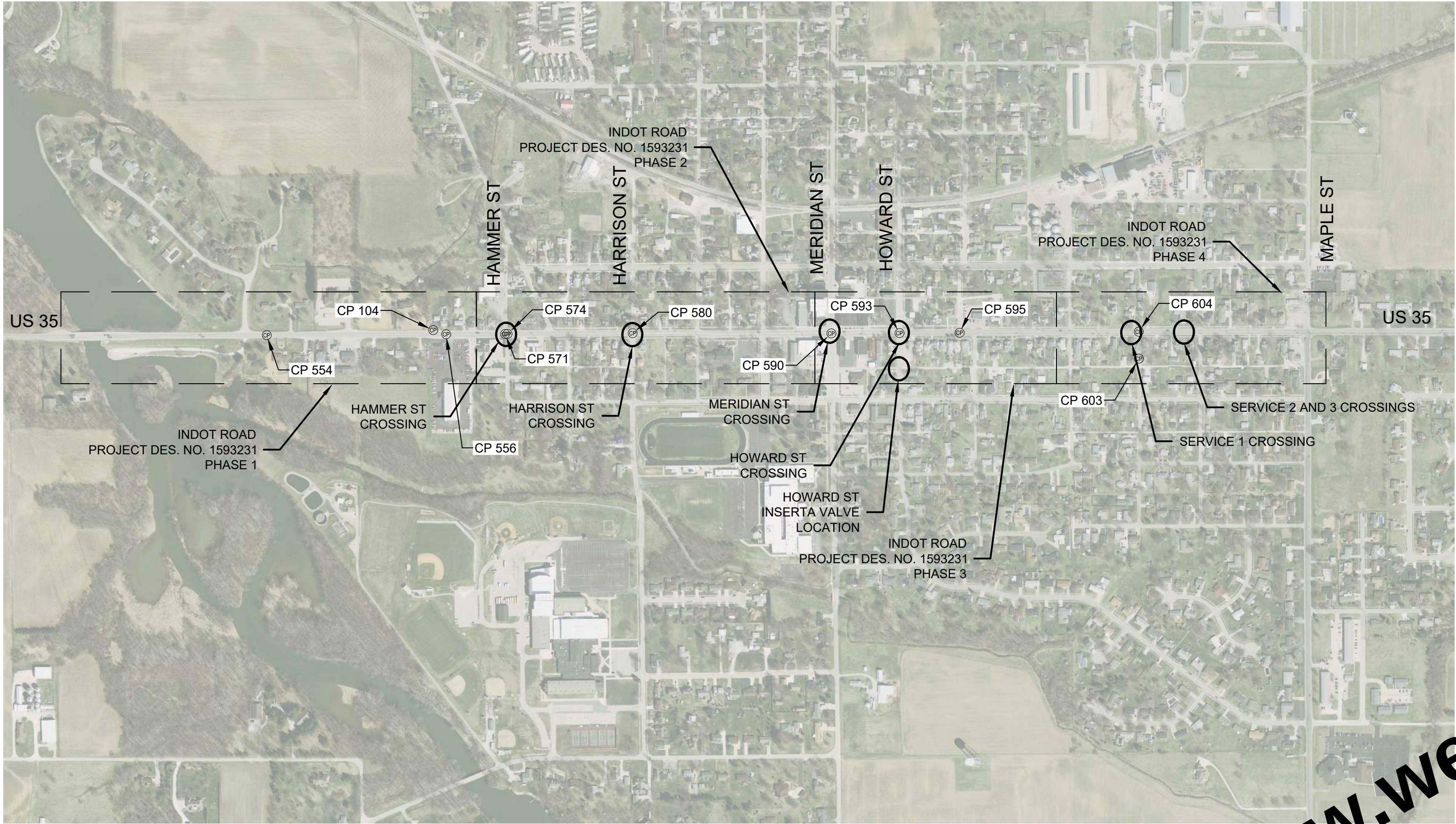
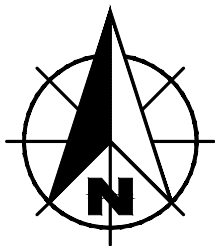
ASHLEY HOWELL, MEMBER

TERESA DUKE, CLERK TREASURER

MICHAEL MAUK, WATER DEPARTMENT

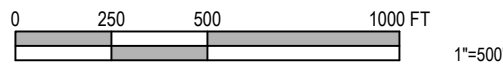
MAY 2021

				 ADAM MICHAEL SITKA REGISTERED ENGINEER STATE OF INDIANA NO. 11800826



2011 IMAGERY FROM INDIANA STATE MAP.

LOCATION AND SCOPE OF WORK PLAN



UTILITY CONTACTS

ELECTRIC

DUKE ENERGY
1619 W DEFFENBAUGH STREET
KOKOMO, INDIANA 46902
765-454-6189
ATTN: CARL JOHNSON

TELEPHONE

AT&T
116 E TAYLOR STREET
KOKOMO, INDIANA 46901
765-454-5021
ATTN: DAVID SMITH

CABLE TV

COMCAST
720 TAYLOR STREET
FORT VINCENNES, INDIANA 46802
OFFICE: 765-460-10-3504
ATTN: DOUG FISHBURN

SEWER AND WATER

GREENTOWN WASTEWATER FACILITY
112 N MERIDIAN STREET
GREENTOWN, INDIANA 46936
765-628-4002

GAS

NIPSCO
801 E. 86TH STREET
MERRILLVILLE, INDIANA 46410
ATTN: ZACHARY HORN

INDOT

GREENFIELD DISTRICT
2152 W SR 28
TIPTON, INDIANA 46072
765-675-7402 (x6)
ATTN: SANDY LANDRUM

HORIZONTAL AND VERTICAL
CONTROL INFORMATION

NOTES:

1. A FIELD SURVEY WAS PERFORMED IN MAY-OCTOBER 2021 BY CERTIFIED ENGINEERING FOR CRAWFORD, MURPHY & TILLY ENGINEERING FOR AN INDIANA DEPARTMENT OF TRANSPORTATION PROJECT.

CONTROL POINT COORDINATE INFORMATION					
POINT NO.	LOCAL NORTHING	LOCAL EASTING	OFFSET	DESCRIPTION	
104	49993.8434	48007.1162	23.50' LL	Set 5/8" Rebar w/cap. Stamped "CERTIFIED ENGINEERING"	
554	49965.1424	48079.2952	P.O.T. 443+30.60 "A"	Set Mag Nail	
556	49970.5759	48081.2952	P.O.T. 443+30.60 "A"	Set Mag Nail	
571	49971.8849	48081.2952	P.O.T. 15+00.00 "S-2-A"	Set Mag Nail	
574	49971.8849	48081.2952	P.O.T. 20+00.00 "S-3-A"	Set Mag Nail	
580	49965.1424	48079.2952	P.I. 35+00.00 "S-6-A"	Set Mag Nail	
580	49965.1424	48079.2952	P.O.T. 55+00.00 "S-10-A"	Set Mag Nail	
580	49965.1424	48079.2952	P.I. 60+00.00 "S-11-A"	Set Mag Nail	
580	49965.1424	48079.2952	P.O.T. 65+00.00 "S-12-A"	Set Mag Nail	
580	49965.1424	48079.2952	P.O.T. 63+50.00 "S-16-A"	Set Mag Nail	
580	49984.2755	52939.3601	P.O.T. 85+00.00 "S-16-A"	Set Mag Nail	

NOTES:

1. CONTROL POINT TABLE SHOWS CONTROL POINTS FROM INDOT PROJECT DES. NO. 1593231. SEE THE THE INDOT PLANS FOR THE ENTIRETY OF THE CONTROL POINTS

DRAWING INDEX

SHEET NO.	DESCRIPTION
GENERAL	
01	TITLE SHEET
02	LOCATION AND SCOPE OF WORK PLAN, UTILITY CONTACTS AND DRAWING INDEX
03	LEGEND, ABBREVIATIONS AND GENERAL NOTES
PLAN SHEETS	
04	PLAN AND PROFILES
05	PLAN AND PROFILES
MISCELLANEOUS DETAILS	
06	MISCELLANEOUS DETAILS
07	MISCELLANEOUS DETAILS
EROSION CONTROL DETAILS	
08	EROSION CONTROL DETAILS

US 35 WATER MAIN REPLACEMENTS

TOWN OF GREENTOWN, INDIANA

LOCATION AND SCOPE OF WORK PLAN, UTILITY CONTACTS
AND DRAWING INDEX

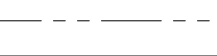
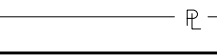
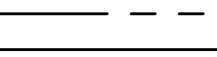
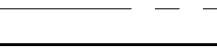
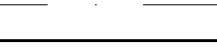
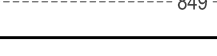
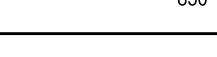
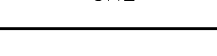
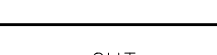
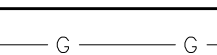
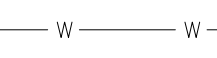
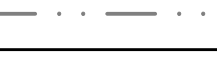
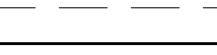
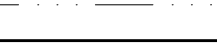
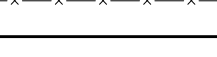
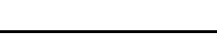
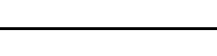
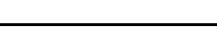
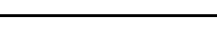
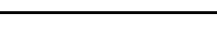
SHEET NO.

02

TOTAL SHEETS

08

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EXISTING FEATURES LEGEND					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BENCH MARK		CISTERN		EASEMENT - CONSTRUCTION/PERMANENT
	TEMPORARY BENCH MARK		ELECTRIC METER		LOT BOUNDARY
	SOIL BORING LOCATION		AIR CONDITIONING UNIT		PROPERTY BOUNDARY
	SECTION CORNER		UTILITY RISER (DEFINED BY UTILITY)		RIGHT-OF-WAY - TEMPORARY/PERMANENT
	DRILL HOLE IN CONCRETE/HARRISON MONUMENT		UTILITY PEDESTAL (DEFINED BY UTILITY)		SECTION BOUNDARY
	CONTROL POINT (SET/FOUND)		UTILITY MARKER (DEFINED BY UTILITY)		WETLANDS
	MAGNETIC NAIL (SET/FOUND)		JOINT POWER/TELEPHONE POLE		CONTOUR - INTERMEDIATE ELEVATION
	BOAT SPIKE (SET/FOUND)		LIGHT POLE		CONTOUR - INDEX ELEVATION
	PK NAIL (SET/FOUND)		LIGHT ON POWER POLE		OVERHEAD ELECTRIC
	RAILROAD SPIKE (SET/FOUND)		LIGHT ON JOINT POLE		OVERHEAD CABLE TV
	R/W MARKER - CONCRETE/GRANITE/STONE		POWER POLE		OVERHEAD TELEPHONE
	IRON PIPE/IRON PIN/REBAR (WITH DIAMETER)		TELEPHONE POLE		UNDERGROUND CABLE TV
	BRASS PLUG		LAMP POST		UNDERGROUND ELECTRIC
	CABLE TV MANHOLE		GUY ANCHOR		UNDERGROUND FIBER OPTIC
	ELECTRIC MANHOLE		GUY POLE OR STUB		GAS MAIN
	GAS MANHOLE		CONTROLLER CABINET		DIGESTER GAS
	OTHER MANHOLE		FLAG POLE		PETROLEUM MAIN
	TELEPHONE MANHOLE		POST		UNDERGROUND TELEPHONE
	TELEPHONE VAULT		GROUND LIGHT		WATER MAIN
	TRAFFIC MANHOLE		MAILBOX		WATER SERVICE
	TRAFFIC HANDHOLE		DOUBLE/MULTIPLE MAILBOX		FORCEMAIN
	WATER MANHOLE		MAST ARM POLE		GRAVITY SEWER PIPE
	AIR RELEASE VALVE		TRAFFIC SIGNAL STRAIN POLE		PLANT CHLORINE PIPE
	SANITARY SEWER MANHOLE		SIGNAL LOOP DETECTOR BOX		TOP OF BANK/TOE OF SLOPE
	DRAINAGE/STORM SEWER MANHOLE		SIGNAL LOOP DETECTOR LOOP		CENTERLINE OF DITCH/SWALE/STREAM
	SANITARY SEWER CLEANOUT		SIGN - SINGLE POST		FENCE - FIELD
	SEPTIC TANK		SIGN - DOUBLE POST		FENCE - METAL
	VALVE VAULT		SIGN - RAILROAD SIGNAL		FENCE - WOOD
	BEEHIVE INLET		SIGN - RAILROAD CROSSING		GUARDRAIL
	CURB INLET		BUSH		STREAM
	DROP INLET		STUMP		TREE/BRUSH LINE
	CATCH BASIN		TREE - CONIFEROUS		
	DOWNSPOUT		TREE - DECIDUOUS		
	GAS METER		ROCK OUTCROP		
	GAS VALVE		SATELLITE		
	GAS SERVICE VALVE		SPRINKLER CONTROL VALVE		
	PETROLEUM VALVE		WATER METER		
	PETROLEUM SHUTOFF VALVE		WATER VALVE		
	GAS STATION MONITORING WELL		WATER SERVICE VALVE		
	GAS STATION FILL CAP		WET WELL		
	NATURAL GAS WELL/STORAGE WELL		WET WELL		
	SPRINKLER HEAD		HYDRANT		
	YARD HYDRANT		PROCESS VALVE		

*NOTE: THIS TABLE IS A LISTING OF TYPICAL EXISTING SYMBOLS AND MAY NOT INCLUDE ALL EXISTING SYMBOLS FOUND WITHIN THIS PLAN SET. UNEXPOSED ITEMS WILL BE CALLED OUT ON THEIR PLAN SHEETS. IF A QUESTION ARISES ON THE MEANING OF ANY SYMBOL NOT LISTED IN THIS TABLE, PLEASE CONTACT THE ENGINEER FOR CLARIFICATION. THE SYMBOLS ARE NOT TO SCALE.

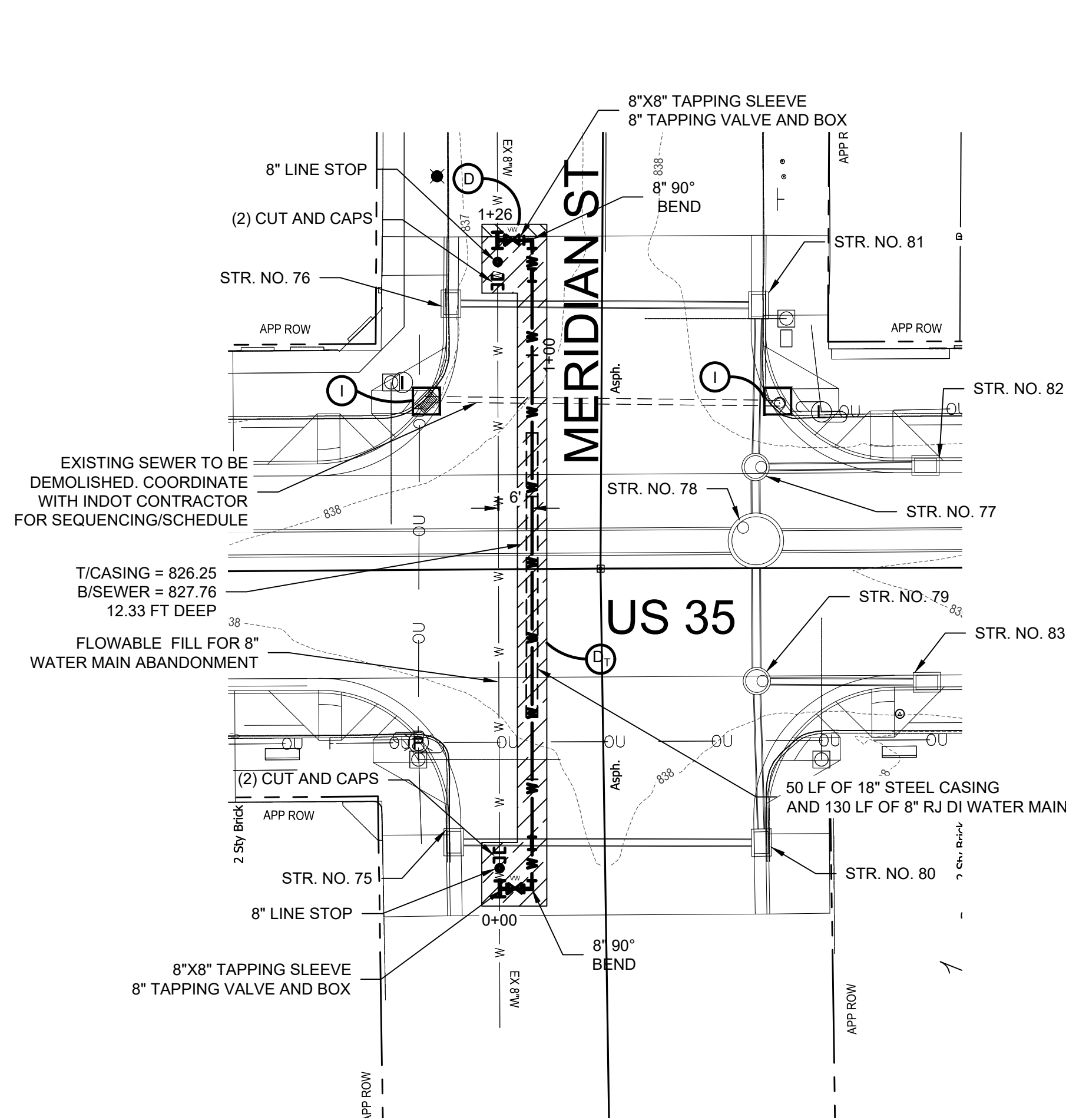
TABLE OF ABBREVIATIONS			
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	IPS	IRON PIPE SIZE
ALUM	ALUMINUM	ISPC	INDIANA STATE PLANE COORDINATE
APP	APPARENT	LB	POUND(S)
APPROX	APPROXIMATE(LY)	LF	LINEAR FEET
ASPH	ASPHALT	LN	LANE
ASSOC	ASSOCIATES	LS	LIFT STATION
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	MA EX	MATCH EXISTING
AVE	AVENUE	MJ	MECHANICAL JOINT
AVG	AVERAGE	MATL	MATERIAL
BLDG	BUILDING	MAX	MAXIMUM
BLVD	BOULEVARD	MH	MANHOLE
BM	BENCHMARK	MIN	MINIMUM
CO	CLEANOUT	MISC	MISCELLANEOUS
CI	CAST IRON	N	NORTHING, NORTH
CL	CENTER LINE	NGS	NATIONAL GEODETIC SURVEY
CMA	COLD MIX ASPHALT	NO.	NUMBER
CMP	CORRUGATED METAL PIPE	OC	ON CENTER
CMU	CONCRETE MASONRY UNIT	OD	OUTSIDE DIAMETER
CONC	CONCRETE	PC	POINT OF CURVE (BEGIN CURVE)
CONT	CONTINUOUS	POLY	POLYETHYLENE
CNR	CORNER	PI	POINT OF INTERSECTION
CP	CONTROL POINT	POT	POINT ON TANGENT
CPP	CORRUGATED PLASTIC PIPE	PT	POINT OF TANGENT (END CURVE)
CR STN	CRUSHED STONE	PSI	POUNDS PER SQUARE INCH
CYD	CUBIC YARD	PT	POINT
D	DEPTH	PVC	POLYVINYL CHLORIDE
DI	DUCTILE IRON	R	RADIUS
DI MJ	DUCTILE IRON MECHANICAL JOINT	ROW	RIGHT-OF-WAY
DBL	DOUBLE	RCP	REINFORCED CONCRETE PIPE
DIA	DIAMETER	RD	ROAD
DIP	DUCTILE IRON PIPE	S	SOUTH
DIPS	DUCTILE IRON PIPE SIZE		STATE ROUTE
DR	DRIVE	SST	STAINLESS STEEL
E	EASTING, EAST	SVA	SERVICE VALVE ASSEMBLY
EF	EACH FACE	SB	SOIL BORING
EW	EACH WAY	SCHED	SCHEDULE
EA	EACH	SDR	STANDARD DIMENSION RATIO
EJ	EAST - EAST IRON WORKS	SECT	SECTION
EL	ELEVATION	SF	SQUARE FEET
EX	EXISTING	SHT	SHEET
EXP	EXPANSION	SPECS	SPECIFICATION(S)
FF	FINISH FLOOR ELEVATION	SQ	SQUARE
FM	FORCE MAIN	SRF	STATE REVOLVING FUND
FND	FOUND	ST	STREET
FT	FEET	STA	STATION
FTG	FOOTING	SYD	SQUARE YARD
GALV	GALVANIZED	TBM	TEMPORARY BENCHMARK
GPS	GLOBAL POSITIONING SYSTEM	TC	TOP OF CASTING
HMA	HOT MIX ASPHALT	TYP	TYPICAL
HDPE	HIGH DENSITY POLYETHYLENE	USGS	US GEOLOGICAL SURVEY
HORIZ	HORIZONTAL	VERT	VERTICAL
ID	INSIDE DIAMETER	VLV	VALVE
IE	INVERT ELEVATION	W	WIDTH, WEST
INC	INCORPORATED	WSE	WATER SURFACE ELEVATION
INDOT	INDIANA DEPARTMENT OF TRANSPORTATION	YR	YEAR
INSTR	INSTRUMENT		
INV	INVERT		

*NOTE: THIS TABLE IS A LISTING OF TYPICAL ABBREVIATIONS AND MAY NOT INCLUDE ALL ABBREVIATIONS FOUND WITHIN THIS PLAN SET. IF A QUESTION ARISES ON THE MEANING OF AN ABBREVIATION NOT LISTED IN THIS TABLE, PLEASE CONTACT THE ENGINEER FOR CLARIFICATION.

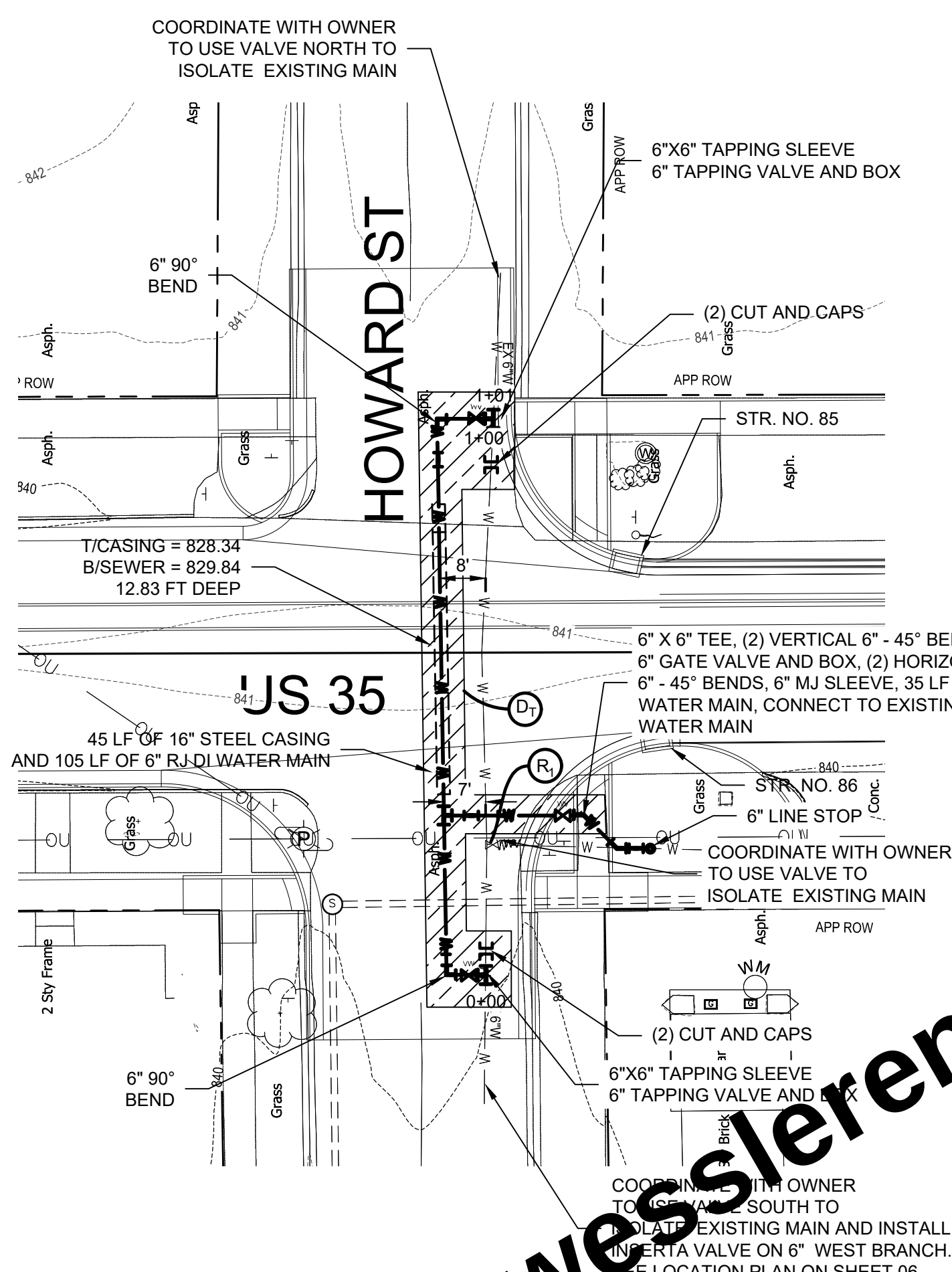
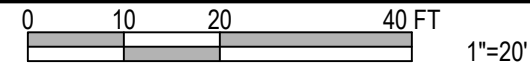
- GENERAL NOTES:
1. NOTIFY THE ENGINEER IF ANY CONFLICTING INFORMATION BECOMES APPARENT IN THE CONTRACT DOCUMENTS AS SOON AS POSSIBLE AND PRIOR TO THE COMMENCEMENT OF ANY WORK IN THE VICINITY OF OR RELATIVE TO THE APPARENT CONFLICT SO THAT CLARIFICATION MAY OCCUR PRIOR TO CONSTRUCTION.
 2. ANY ALTERATIONS TO THESE DRAWINGS NOT AUTHORIZED BY WESSLER ENGINEERING AND NOT IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS AND RECORDS ON FILE AT WESSLER ENGINEERING SHALL RELIEVE WESSLER ENGINEERING OF ANY RESPONSIBILITY FOR THE ACCURACY OF THE DRAWINGS.
 3. USE CAUTION DURING THE EXECUTION OF WORK TO PREVENT DAMAGE TO STATE, COUNTY, MUNICIPAL, AND PRIVATE PROPERTY. REPAIR ALL DAMAGES AS A RESULT OF OPERATIONS, INCLUDING DAMAGE TO DRAINAGE STRUCTURES, FIELD TILES, PUBLIC/PRIVATE ROADS, AND LANDSCAPING (INCLUDING FENCING). REPAIR AND REPLACE DAMAGED ITEMS AT NO ADDITIONAL COST TO THE OWNER. PERFORM ALL REPAIR AND REPLACEMENT WORK TO THE SATISFACTION OF THE PERMITTING AGENCY, THE OWNER AND THE ENGINEER.
 4. TAKE CARE TO AVOID DAMAGE TO PAVED AREAS WHICH ARE NOT SPECIFICALLY CALLED OUT FOR REPAIR OR REPLACEMENT. REPAIR, OR REPLACE ALL SUCH PAVEMENTS WHICH ARE DAMAGED BY CONSTRUCTION ACTIVITIES AND CONSTRUCTION TRAFFIC AT NO ADDITIONAL COST TO THE OWNER.
 5. OBTAIN ALL TEMPORARY EASEMENTS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
 6. COMPLY WITH ALL APPLICABLE PERMITS AND REGULATIONS. APPLICABLE PERMITS ISSUED TO THE OWNER WILL BE MADE AVAILABLE TO THE CONTRACTOR. CONTACT ALL APPLICABLE PERMITTING AGENCIES WITHIN THE TIME PERIOD SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.
 7. ALL EXISTING AND NEW UTILITY INFORMATION, INCLUDING BUT NOT LIMITED TO LOCATION, SIZE AND INVERT ELEVATION, IS SHOWN BASED UPON AVAILABLE INFORMATION. THE ENGINEER DOES NOT GUARANTEE OR ASSUME SUCH INFORMATION TO BE TRUE, ACCURATE, COMPLETE, EXCLUSIVE OR EVEN APPROXIMATE. CONTACT THE INDIANA UNDERGROUND PLANT PROTECTION SERVICE (U4PPS) AT LEAST FORTY- EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY TO IDENTIFY NON-MEMBER UTILITIES DIRECTLY.
 8. DETERMINE WHICH UTILITIES MAY CONFLICT WITH NEW WORK AND VERIFY THEIR LOCATION, SIZE AND ELEVATION PRIOR TO CONSTRUCTION AND DETERMINE IF THERE ARE ANY DISCREPANCIES OR CONFLICTS. IF ANY DISCREPANCIES OR CONFLICTS ARE DISCOVERED, NOTIFY THE ENGINEER AS SOON AS POSSIBLE.
 9. EXISTING UTILITY SERVICE LINES FOR INDIVIDUAL CUSTOMERS MAY NOT BE SHOWN ON THE DRAWINGS. ASSUME THAT UNDERGROUND UTILITY SERVICE LINES FOR ALL UTILITIES EXIST TO EACH PROPERTY ALONG THE ROUTE OF THE PLANNED IMPROVEMENTS.
 10. COORDINATE AND WORK WITH THE RESPECTIVE UTILITIES. SCHEDULE WORK ACCORDINGLY, AND NOTIFY ALL UTILITIES A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY.
 11. COORDINATE ALL PLANNED UTILITY SERVICE INTERRUPTIONS WITH THE RESPECTIVE UTILITIES AND THE UTILITY AFFECTED CUSTOMERS. SERVICE INTERRUPTIONS SHOULD NOT LAST MORE THAN FOUR (4) HOURS. GIVE WRITTEN NOTICE TO ALL AFFECTED UTILITY CUSTOMERS AND PROPERTY OWNERS AT LEAST TWENTY-FOUR (24) HOURS BUT NOT MORE THAN SEVENTY-TWO (72) HOURS PRIOR TO ANY PLANNED INTERRUPTION OF UTILITY SERVICE.
 12. USE CAUTION DURING THE EXECUTION OF WORK TO PREVENT DAMAGE TO EXISTING UTILITIES. REPAIR OR REPLACE ALL PUBLIC AND PRIVATE FACILITIES DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS. BRACE AND PROTECT ALL UTILITY POLES AND EXISTING STRUCTURES ADJACENT TO NEW EXCAVATIONS. UTILITY POLE BRACING SHALL BE AS DIRECTED BY THE GOVERNING UTILITY.
 13. DO NOT DISTURB EXISTING MANHOLES OR INLETS, UNLESS NOTED OTHERWISE.
 14. ALL EQUIPMENT, APPURTENANCES AND PIPING REMOVED AS PART OF THE DEMOLITION SHALL FIRST BE OFFERED TO THE OWNER FOR SALVAGE. DELIVER SALVAGED ITEMS SELECTED BY OWNER TO A LOCATION DESIGNATED BY THE OWNER OR ENGINEER. IN THE EVENT THE OWNER DOES NOT ELECT TO KEEP THE REMOVED ITEMS, REMOVE SUCH ITEMS FROM THE SITE AND DISPOSE OF AT A LOCATION APPROVED FOR SUCH DISPOSAL AT THE CONTRACTOR'S EXPENSE.
 16. COORDINATE STAGING AREA LOCATIONS WITH THE OWNER.
 17. ALL CONSTRUCTION TRAFFIC SHALL USE MAJOR ROADS AND COMPLY WITH INDOT DES. NO. 1593231 MAINTENANCE OF TRAFFIC PLAN.
 18. TO CONTROL DUST, REMOVE SOIL FROM STREETS USED BY CONSTRUCTION TRAFFIC DAILY, VACUUM AND WATER AS NECESSARY AND/OR AS DIRECTED BY THE OWNER.
 19. NEW PIPING CARRYING LIQUIDS SHALL HAVE MINIMUM COVER AS DEFINED IN THE MISCELLANEOUS SITE DETAILS, UNLESS SPECIFIC ELEVATIONS ON THE DRAWINGS INDICATE OTHERWISE.
 20. COMPLETELY REMOVE UNDERGROUND PIPING THAT HAS PREVIOUSLY BEEN OR WILL BE TAKEN OUT OF SERVICE, IN CONFLICT WITH THE NEW WORK, UNLESS OTHERWISE NOTED, ABANDON IN PLACE ALL UNDERGROUND PIPING NOT IN CONFLICT WITH THE NEW WORK. DO NOT LEAVE ABANDONED PIPING LIVE.
 21. PLACE NO. 8 CRUSHED AGGREGATE BETWEEN PIPES AT ALL PIPE CROSSINGS TO PREVENT PIPE SETTLEMENT UNLESS SHOWN OTHERWISE.
 22. VERIFY EXISTING SEWER INVERTS AND LOCATIONS PRIOR TO CONSTRUCTION AND DETERMINE IF THERE ARE ANY DISCREPANCIES OR CONFLICTS.
 23. RESET ALL MAILBOXES AND SIGNS DISTURBED BY CONSTRUCTION ACTIVITIES.
 24. IF REQUIRED, PLACE TEMPORARY OVERNIGHT AGGREGATE WEDGES AT DRIVEWAYS TO ALLOW PROPERTY OWNER ACCESS.
 25. SURVEY WAS NOT COMPLETED BY WESSLER ENGINEERING. INFORMATION WAS TAKEN FROM CRAWFORD, MURPHY AND TILLY DRAWINGS FOR INDOT DES. NO. 1593231. OTHER EXISTING UTILITY INFORMATION WAS TAKEN FROM THE TOWN OF GREENTOWN GIS SYSTEM MAPPING.

SCALE VERIFICATION BAR IS ONE INCH LONG ON ORIGINAL DRAWING	DRAWN BY CLG	NO. DATE INITIALS REVISION DESCRIPTIONS	ADAM MICHAEL TYLKA REGISTERED No. 11800826 STATE OF INDIANA PROFESSIONAL ENGINEER 05/14/2021 W WESSLER ENGINEERING More than a Project™	US 35 WATER MAIN REPLACEMENTS		SHEET NO. 03		
	CHECKED BY ACH						TOWN OF GREENTOWN, INDIANA	
	APPROVED BY AMS							
	ISSUE DATE MAY 2021							
	PROJECT NUMBER 192616-04-004							
						TOTAL SHEETS 08		

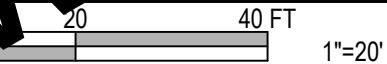
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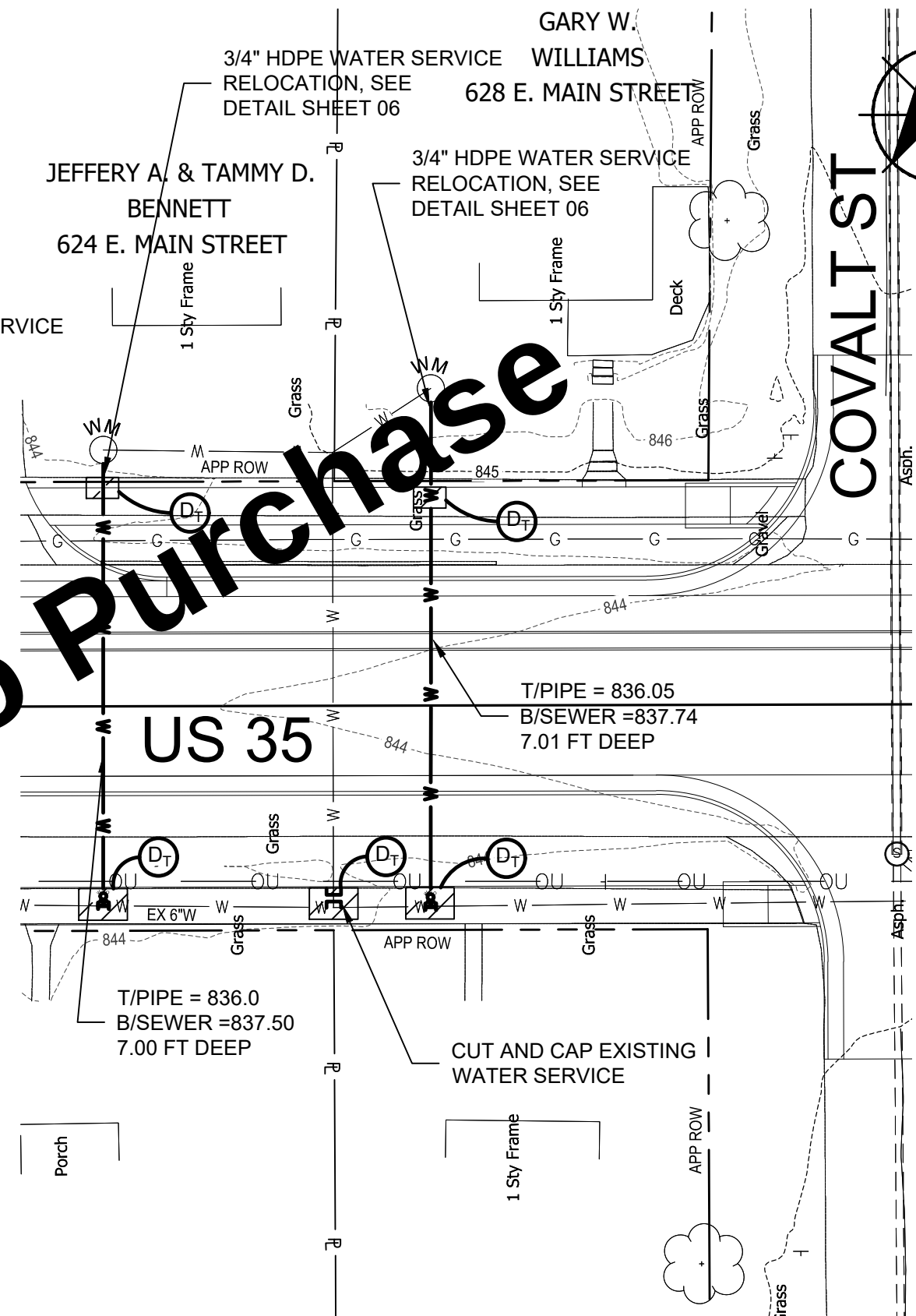
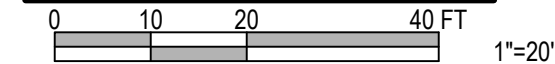
PLAN - MERIDIAN ST/US 35



PLAN - HOWARD ST/US 35



PLAN - SERVICE 1



PLAN - SERVICE 2 AND 3

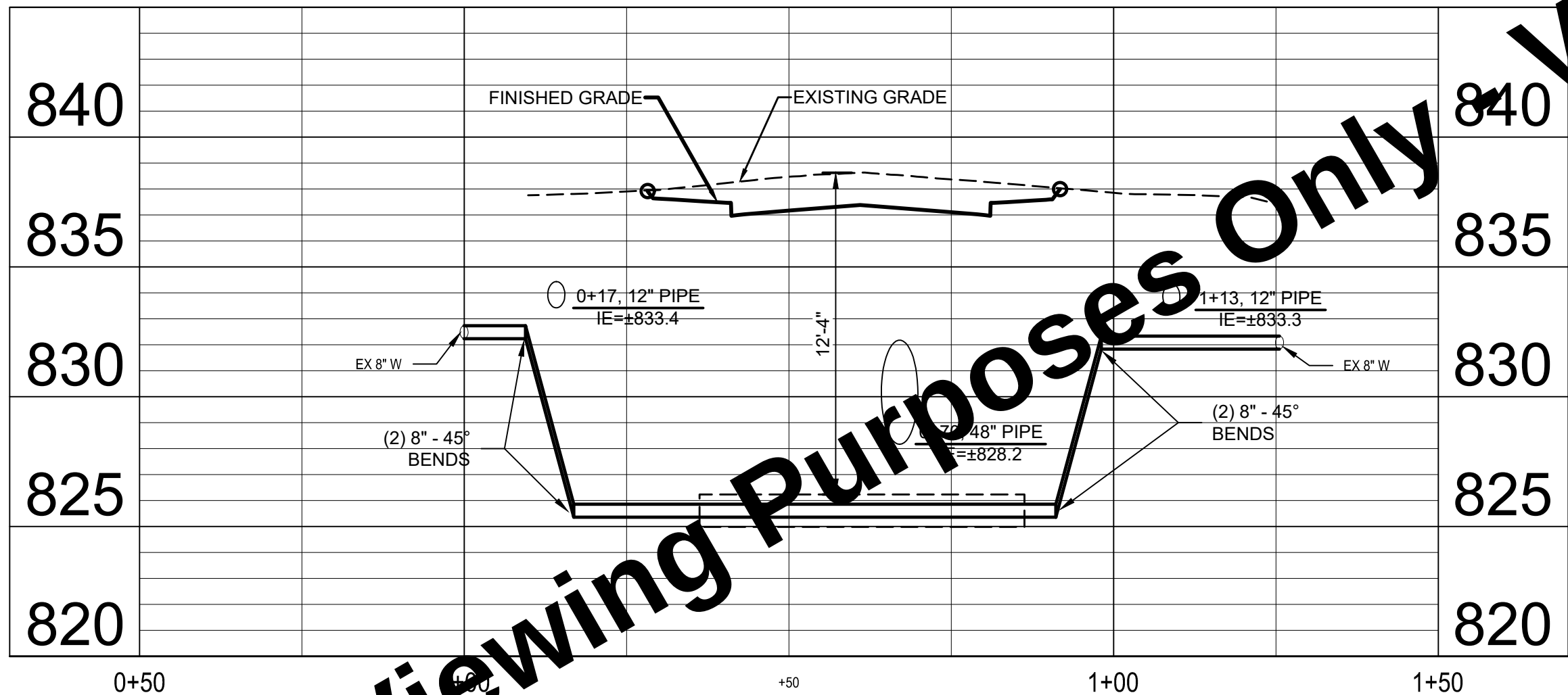


LEGEND

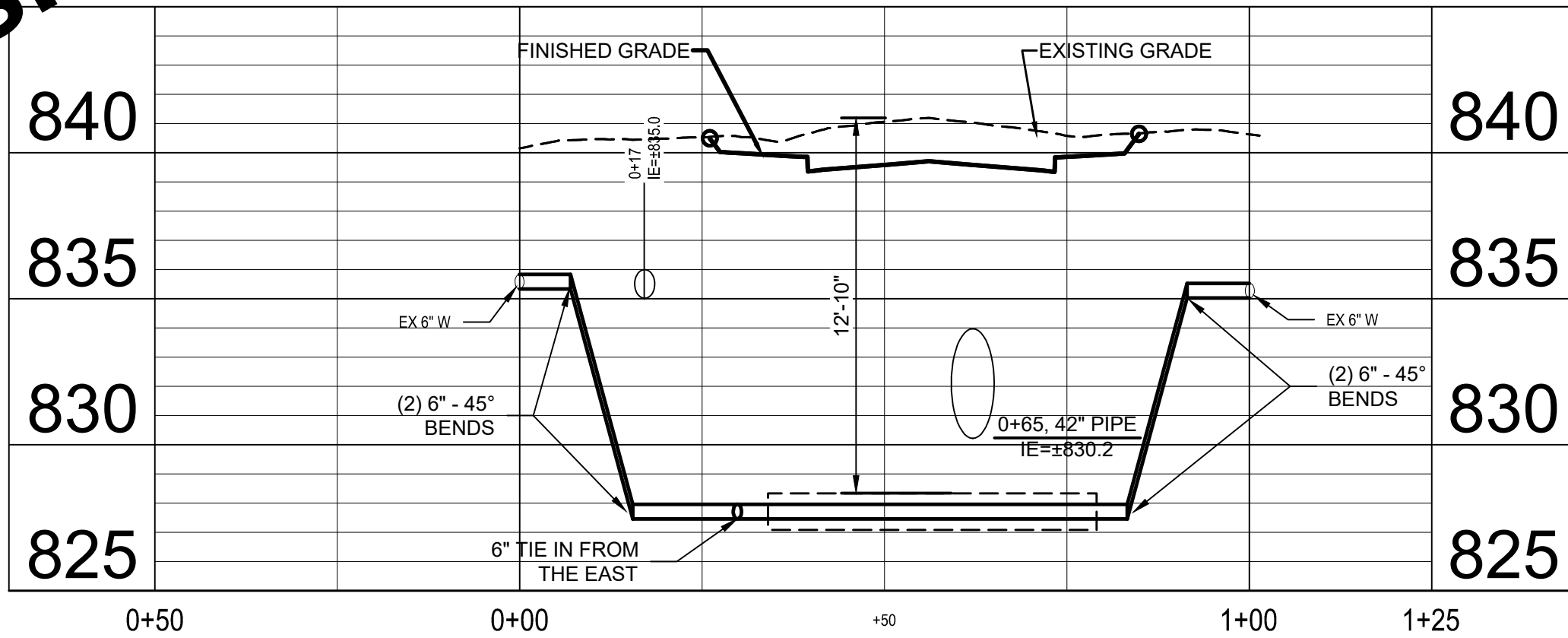
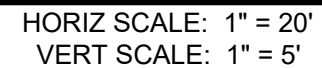
- WATER MAIN
- WATER SERVICE
- WATER METER
- WATER VALVE
- CORPORATION STOP
- WATER FITTING
- SHORT TERM PAVEMENT REPAIR
- ASPHALT PAVEMENT REPAIR
- INLET PROTECTION

KEYED NOTES

- D ASPHALT PAVEMENT REPAIR AND FULL DEPTH GRANULAR BACKFILL
 - D_T SHORT TERM PAVEMENT REPAIR FULL DEPTH GRANULAR BACKFILL AND 12" CRUSHED STONE SURFACE
 - I INLET PROTECTION
 - R₁ CLOSE EXISTING VALVE AND REMOVE VALVE BOX AND LID
- NOTES:
- KEYED NOTES ARE SHOWN FOR CLARITY. REFER TO THE LEGEND, MISCELLANEOUS DETAILS, AND THE SPECIFICATIONS RELATED TO EACH ITEM FOR A COMPLETE DESCRIPTION OF WORK REQUIREMENTS.
 - LOCATIONS OF FULL DEPTH GRANULAR BACKFILL MAY NOT BE SPECIFICALLY NOTED ON THE DRAWINGS. REFER TO SPECIFICATION SECTION 02220 FOR BACKFILL REQUIREMENTS.



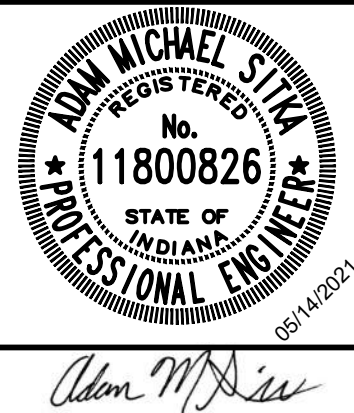
PROFILE - MERIDIAN STREET



PROFILE - HOWARD STREET

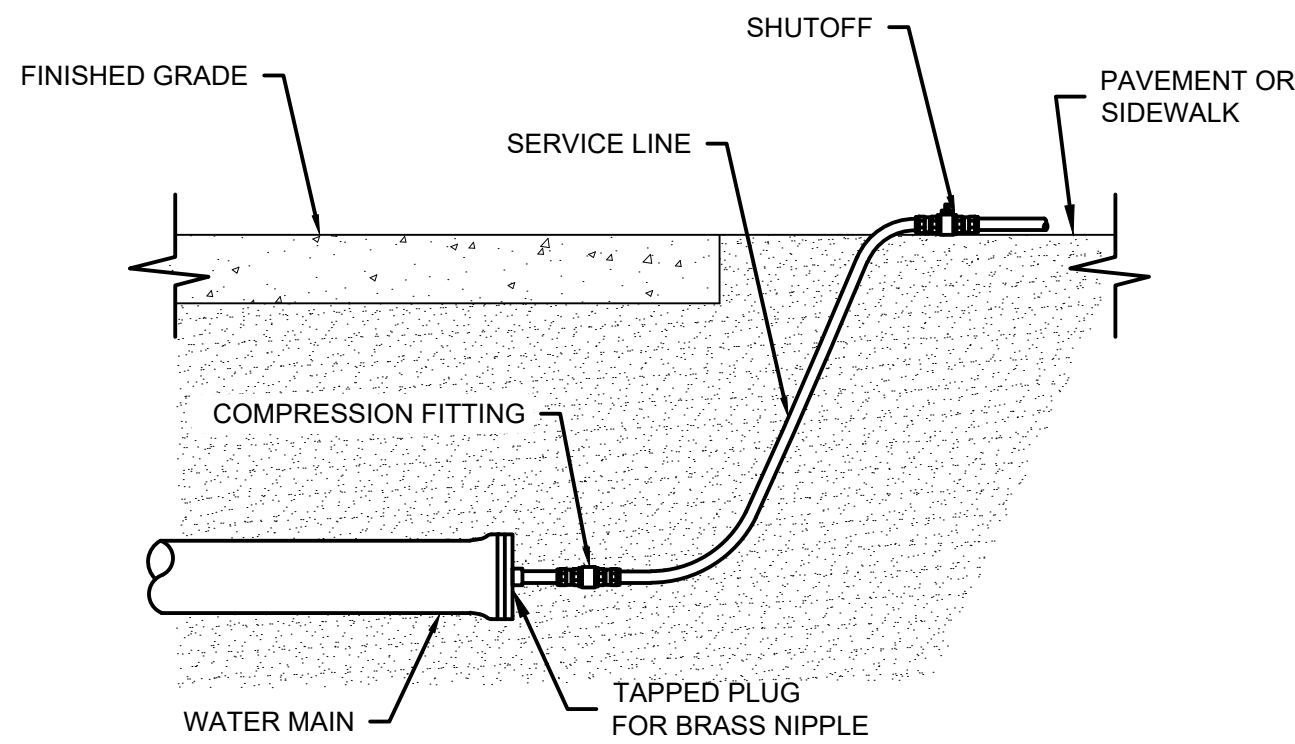


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	ISSUE DATE					
	MAY 2021					
	PROJECT NUMBER					
		192616-04-004				



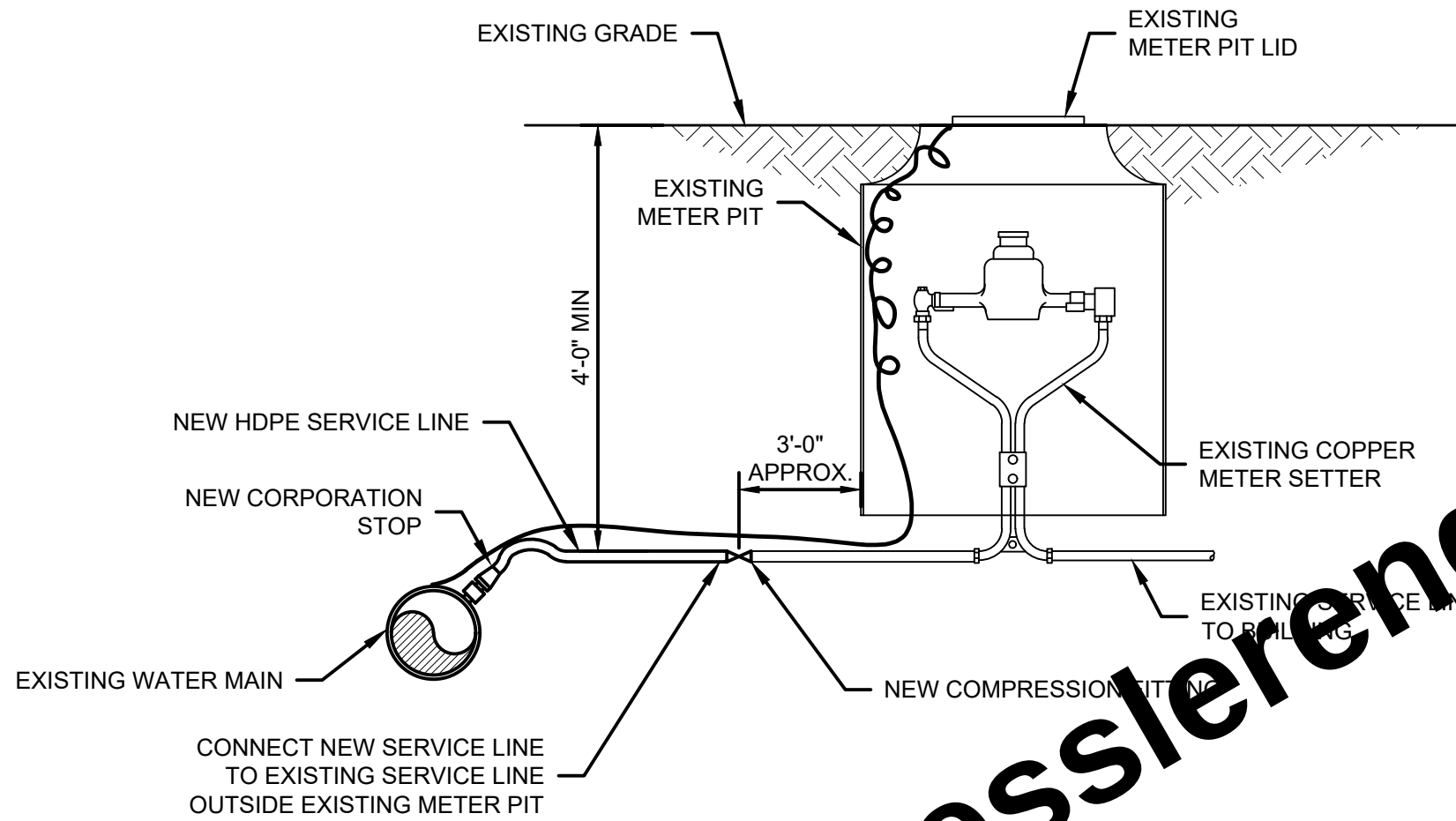
US 35 WATER MAIN REPLACEMENTS
TOWN OF GREENTOWN, INDIANA
PLAN AND PROFILES

SHEET NO.
05
TOTAL SHEETS
08



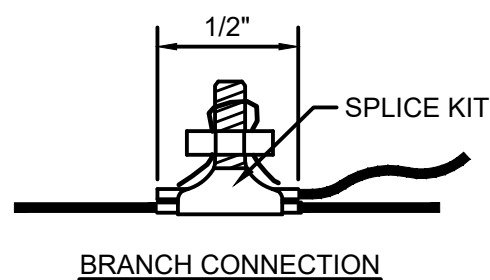
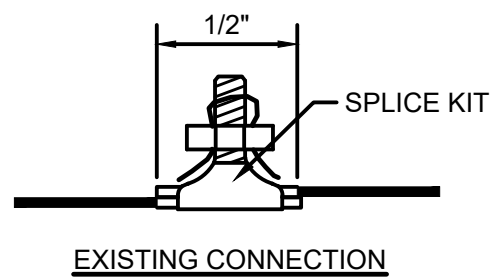
TEMPORARY BLOW-OFF
ASSEMBLY
SCALE: NONE

- NOTES:
1. IN LIEU OF TAPPED CAP AND COMPRESSION FITTING, A CORPORATION STOP TAPPED INTO PIPE SIDEWALL IS ALSO ACCEPTABLE.



- NOTES:
1. SERVICE LINE RELOCATION INCLUDES NEW CORPORATION STOP, SADDLE, HDPE SERVICE LINE, TRACER WIRE, AND COMPRESSION FITTING.
 2. IF TRACER WIRE IS PRESENT ON WATER MAIN, CONNECT TO SERVICE LINE TRACER WIRE VIA SPLICE KIT.

SERVICE LINE RELOCATION
SCALE: NONE

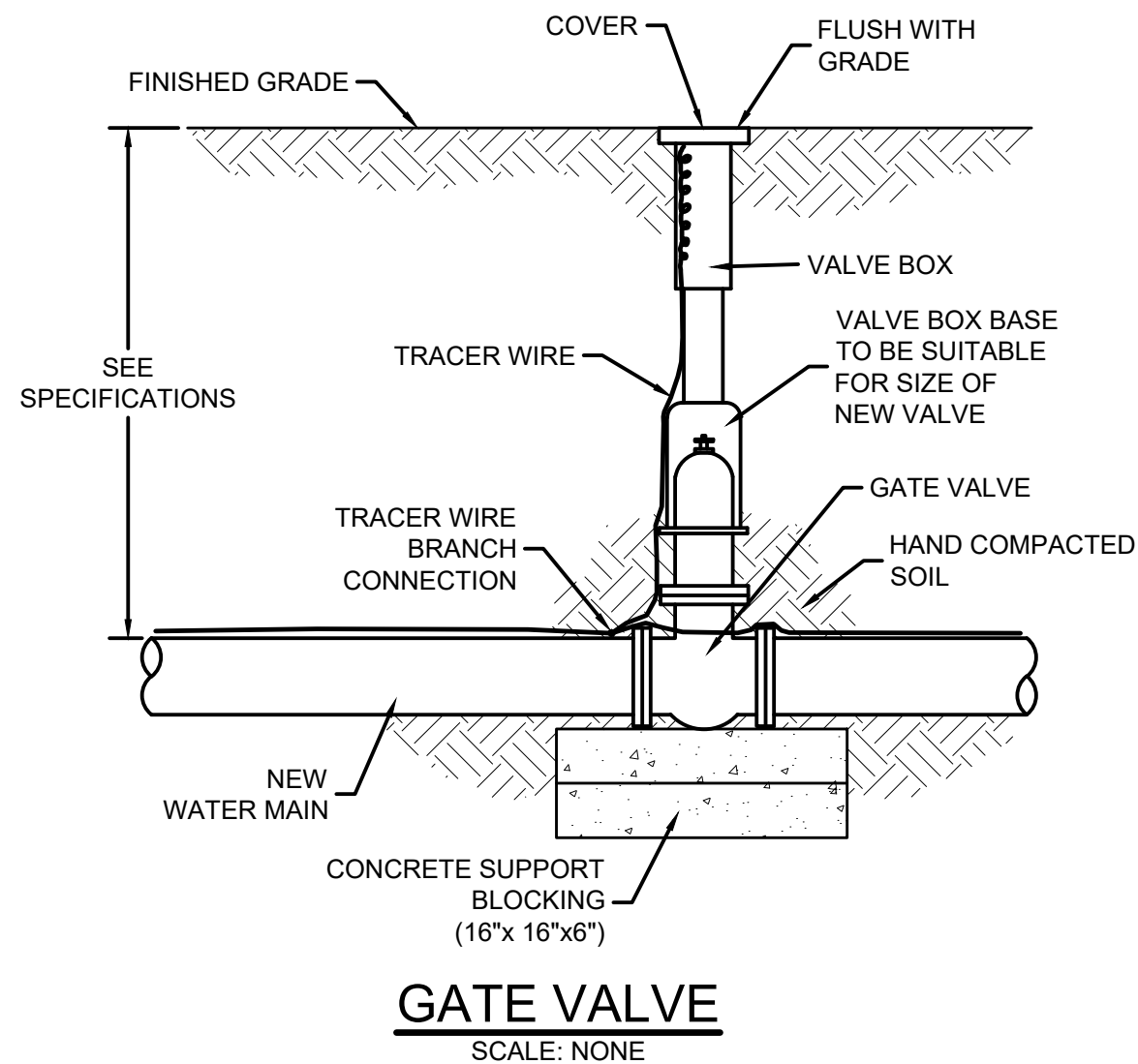
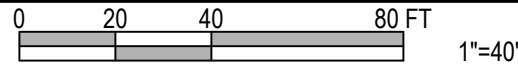


TRACER WIRE
BOLTED CONNECTION
SCALE: NONE



- NOTES:
1. EXISTING UTILITIES AND RIGHT-OF-WAY SHOWN ARE FROM 2005 TOWN OF GREENTOWN UTILITY MAPS.
 2. COORDINATE WITH GREENTOWN UTILITIES FOR THE PRECISE LOCATION OF INSERTA VALVE LOCATION.

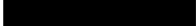
HOWARD STREET VALVE LOCATION PLAN

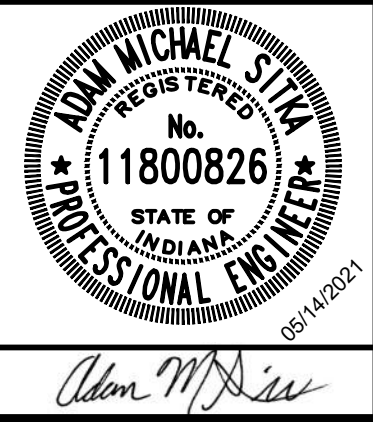


GATE VALVE
SCALE: NONE

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	APPROVED BY	AMS				
	ISSUE DATE	MAY 2021				
	PROJECT NUMBER	192616-04-004				

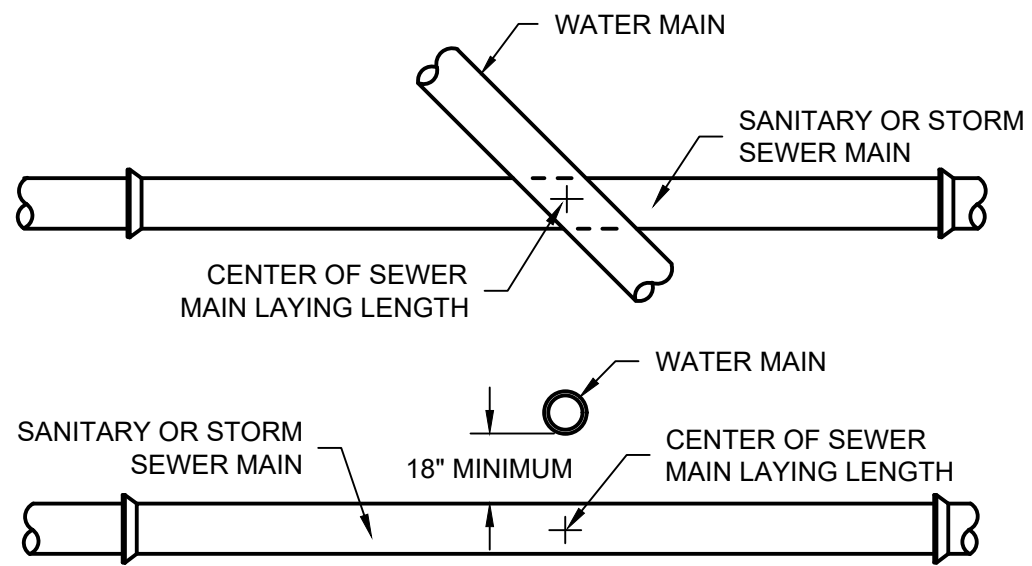


US 35 WATER MAIN REPLACEMENTS	
TOWN OF GREENTOWN, INDIANA	
MISCELLANEOUS DETAILS	

SHEET NO.	06
TOTAL SHEETS	08

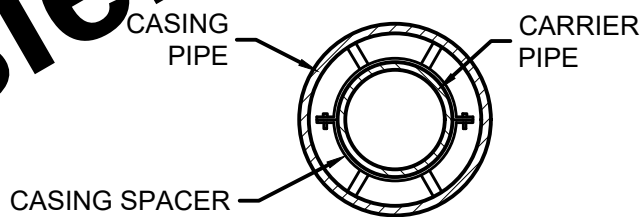
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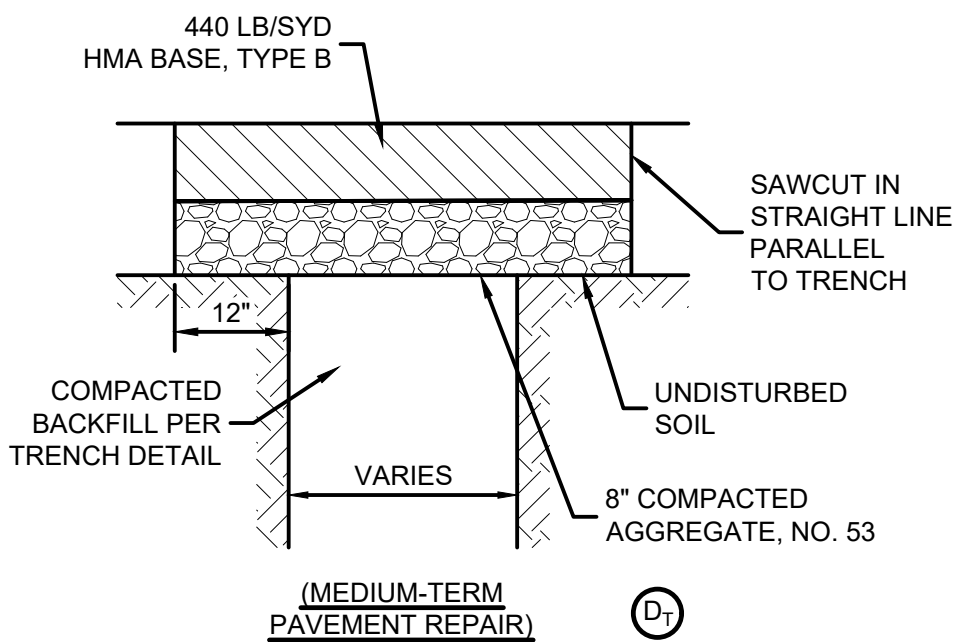


- NOTES:
1. WATER MAIN AND SEWER MINIMUM SEPARATION: 18" VERTICAL SEPARATION 10'-0" HORIZONTAL SEPARATION.
 2. WHERE WATER MAIN AND SEWER SEPARATION IS LESS THAN 18" VERTICAL OR 10' HORIZONTAL, THE SEWER MUST BE DUCTILE IRON OR SDR-21 PVC.

**MINIMUM CROSSOVER AND SEPARATION REQUIREMENTS
SEWER AND WATER MAINS**
SCALE: NONE

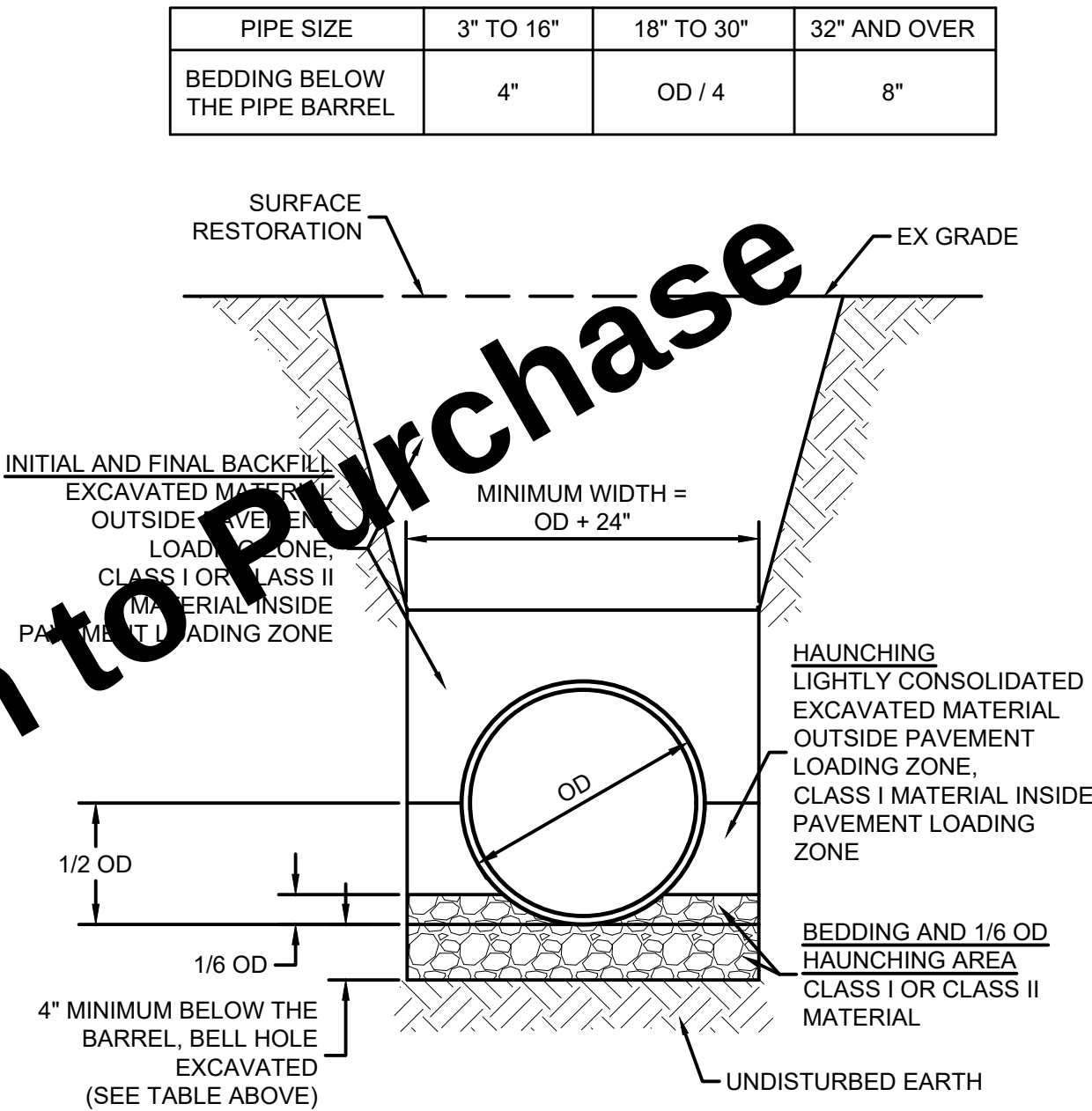


CASING SPACER
SCALE: NONE

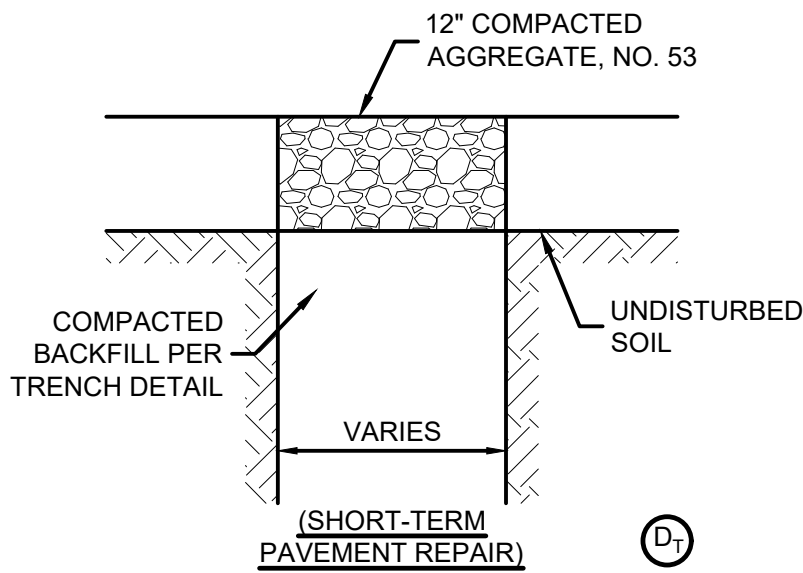


NOTE:
USE THIS PAVEMENT REPAIR DETAIL IF REPAIR WILL BE DONE OUTSIDE OF A PHASE STREET CLOSURE BY E & B PAVING

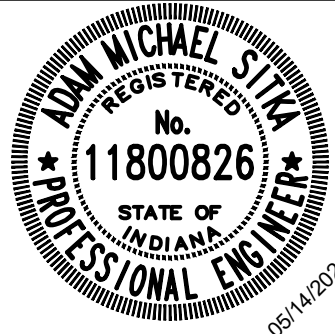
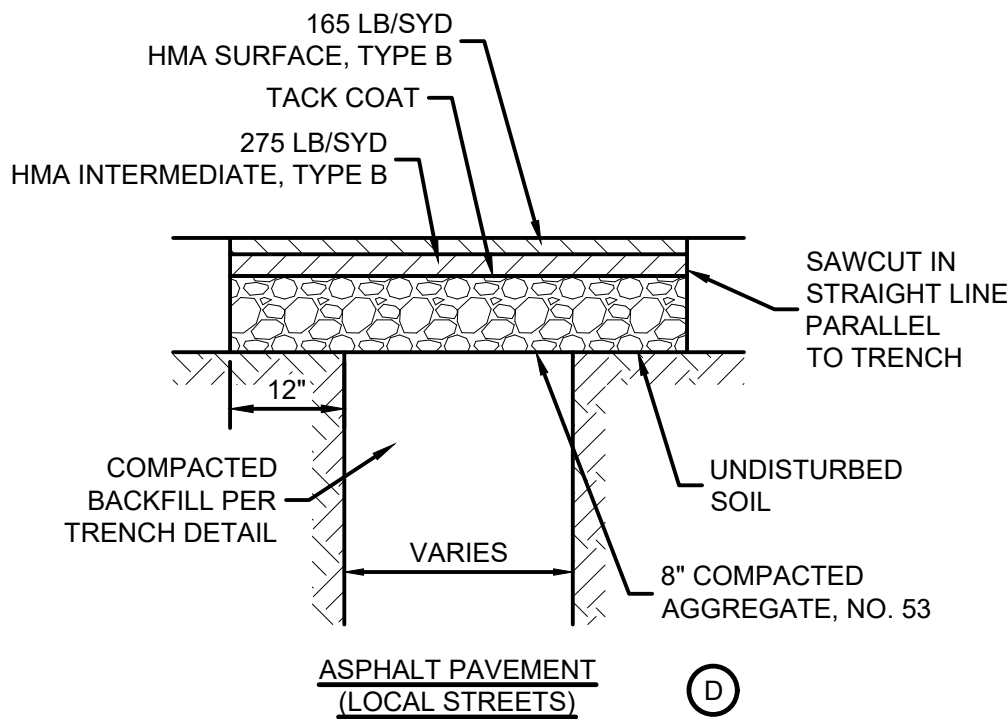
PAVEMENT REPAIR
SCALE: NONE



DUCTILE IRON (DI) PIPE TRENCH
SCALE: NONE



NOTE:
USE THIS PAVEMENT REPAIR DETAIL IF REPAIR WILL BE DONE DURING A PHASE STREET CLOSURE BY E & B PAVING



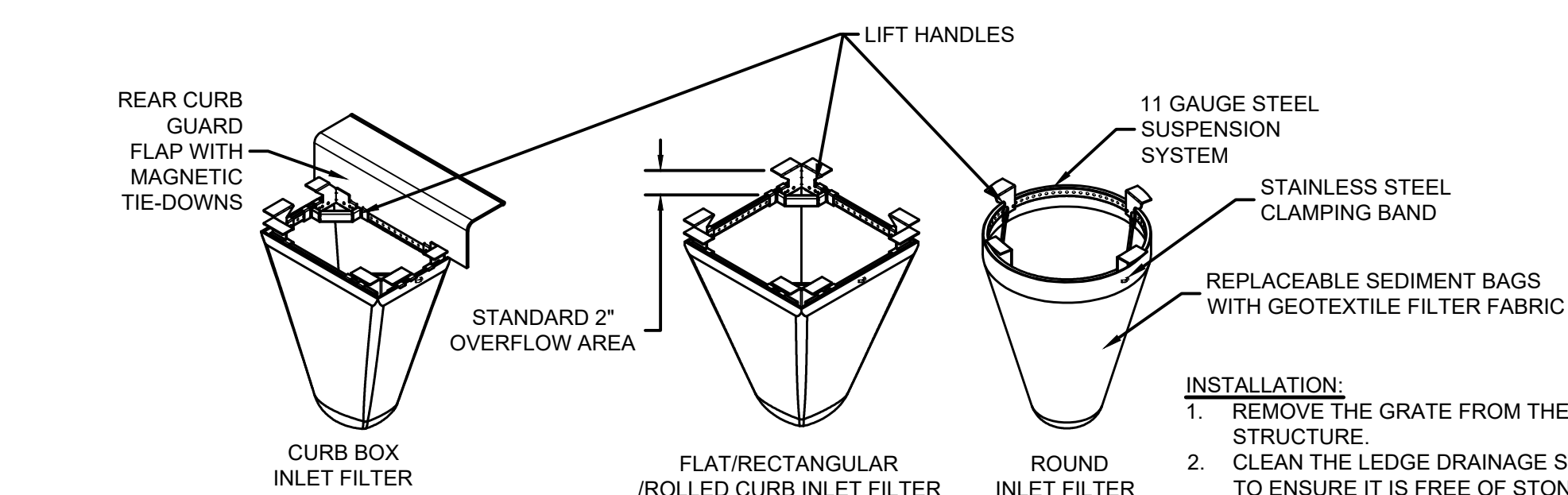
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US 35 WATER MAIN REPLACEMENTS
TOWN OF GREENTOWN, INDIANA
MISCELLANEOUS DETAILS

SHEET NO.
07
TOTAL SHEETS
08

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	APPROVED BY	AMS				
	ISSUE DATE					
	MAY 2021					
	PROJECT NUMBER					
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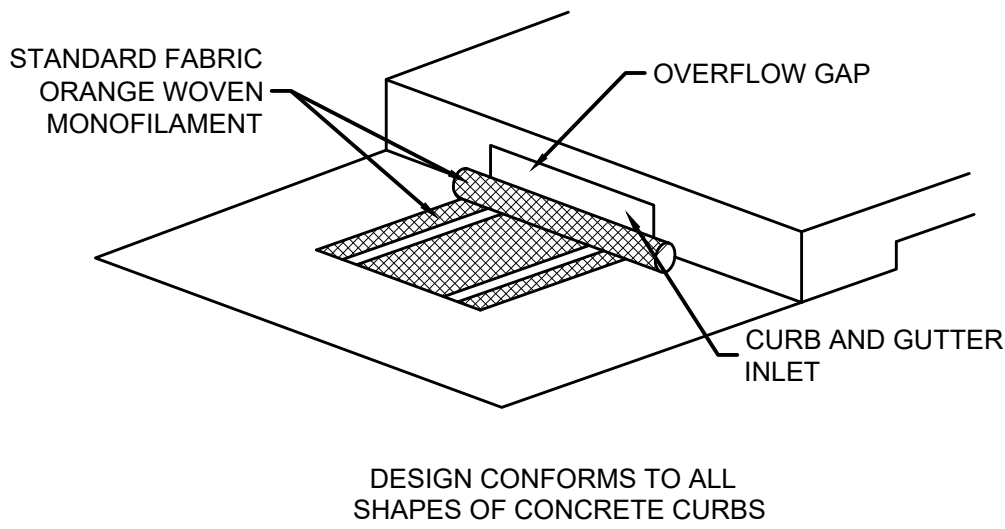


INLET FILTER SPECIFICATIONS		
WOVEN GEOTEXTILE SEDIMENT BAG SPECS (2 FT VOL)		
MATERIAL PROPERTY	TEST METHOD	VALUE (AVG)
GRAB TENSILE	ASTM D4632	255 X 275
PUNCTURE STRENGTH	ASTM D4833	135 LB
TRAPEZOIDAL TEAR	ASTM D4533	75 LB
UV RESISTANCE	ASTM D4355	90%
APP OPEN SIZE (AOS)	ASTM D4751	NO. 20 SIEVE
PERMITTIVITY	ASTM D4491	1.5 S ⁻¹
WATER FLOW RATE	ASTM D4491	200 GPM/SQFT
SEDIMENT REMOVAL EFFICIENCY (8% MIX)	ASTM D7351	82%

SOURCE: FLEX STORM INLET FILTER

- INSTALLATION:**
1. REMOVE THE GRATE FROM THE DRAINAGE STRUCTURE.
 2. CLEAN THE LEDGE DRAINAGE STRUCTURE TO ENSURE IT IS FREE OF STONE AND DIRT.
 3. DROP IN THE INLET FILTER THROUGH THE CLEAR OPENING AND BE SURE THE SUSPENSION HANGERS REST FIRMLY ON THE INSIDE LEDGE.
 4. REPLACE THE GRATE.
 5. FOR CURB BOX INLET FILTERS: INSERT INLET FILTER AS DESCRIBED ABOVE IN COMBINATION WITH THE CURB BOX FLAP IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

- MAINTENANCE:**
1. INSPECT THE INLET FILTER DAILY AND AFTER EACH STORM EVENT AND EMPTY IF THE SEDIMENT BAG IS MORE THAN HALF FILLED WITH SEDIMENT AND DEBRIS, OR AS DIRECTED BY THE ENGINEER.
 2. REMOVE THE GRATE AND LIFT THE INLET FILTER FROM THE DRAINAGE STRUCTURE. DISPOSE OF ACCUMULATED SEDIMENTS AND DEBRIS PROPERLY. MATERIAL SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM.
 3. REMOVE ANY CAKED ON SILT FROM THE SEDIMENT BAG AND REVERSE FLUSH THE BAG FOR OPTIMAL FILTRATION.
 4. REPLACE THE BAG IF THE INNER FILTER MEMBRANE IS TORN.



- PRODUCT:**
1. DANDY CURB SACK, OR APPROVED EQUAL.
- INSTALLATION:**
1. REMOVE THE GRATE FROM THE CATCH BASIN AND STAND ON END.
 2. CRADLE THE GRATE BETWEEN THE UPPER AND LOWER STRAPS.
 3. INSERT THE GRATE INTO THE INLET WITH THE LIFTING DEVICES. LOWER BACK EDGE WITH TUBE INTO PLACE. TUBE SHOULD PARTIALLY BLOCK THE CURB HOOD OPENING.
- MAINTENANCE:**
1. REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT.
 2. REMOVE THE SEDIMENT THAT HAS ACCUMULATED WITHIN THE FABRIC AS NEEDED.
 3. INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.

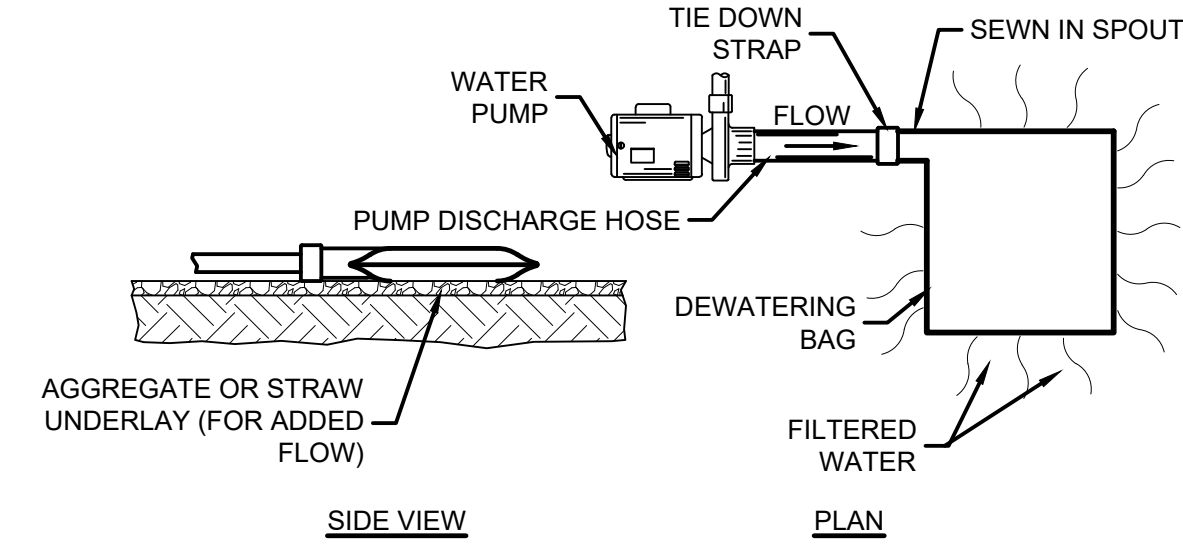
CURB AND GUTTER INLET PROTECTION

SCALE: NONE

SEASONAL SOIL PROTECTION CHART												
STABILIZATION PRACTICE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
PERMANENT SEEDING			A									
DORMANT SEEDING	B										D	
TEMPORARY SEEDING			C					E			D	
SODDING			F									
MULCHING						G						

- A. = KENTUCKY BLUEGRASS 40 LB/ACRE
B. = KENTUCKY BLUEGRASS 210 LB/ACRE
C. = SPRING OATS 100 LB/ACRE (1" PLANTING DEPTH)
D. = WHEAT OR RYE 150 LB/ACRE (1" PLANTING DEPTH)
E. = ANNUAL RYEGRASS 40 LB/ACRE (1/4" PLANTING DEPTH)
F. = SOD
G. = ANCHORED STRAW/HAY (2 TONS/ACRE) OR WOOD FIBER/CELLULOSE (1 TON/ACRE)

- NOTES:**
1. IRRIGATION SCHEDULED DURING MAY THROUGH SEPTEMBER.
 2. IRRIGATION REQUIRED FOR 2 TO 3 WEEKS AFTER APPLYING SOD.
 3. ANCHORED MULCH IS REQUIRED FOR PERMANENT, DORMANT AND TEMPORARY SEEDING.
 4. SEEDING DATES PROVIDED. DATES MAY BE EXTENDED OR SHORTENED BASED ON PROJECT LOCATION.
- SEED MIXTURES PROVIDED FOR LAWNS AND HIGH MAINTENANCE AREAS.**
- MAINTENANCE:**
1. INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.
 2. CHECK FOR EROSION AND MOVEMENT OF MULCH AND REPAIR IMMEDIATELY.
 3. MONITOR FOR EROSION DAMAGE AND ADEQUATE COVER (70% DENSITY).
 4. RESEED, FERTILIZE OR APPLY MULCH WHERE NECESSARY.



MECHANICAL PROPERTIES	TEST METHOD	UNITS	INDUSTRY STANDARD
GRAB TENSILE STRENGTH	ASTM D4632	kN (LB)	0.9 (205) X 0.9 (205)
GRAB TENSILE ELONGATION	ASTM D4632	%	50 X 50
PUNCTURE STRENGTH	ASTM D4833	kN (LB)	0.58 (130)
MULLEN BURST STRENGTH	ASTM D3786	kPa (PSI)	2618 (380)
TRAPEZOID TEAR STRENGTH	ASTM D4533	kN (LB)	0.36 (80) X 0.36 (80)
UV RESISTANCE	ASTM D4355	%	70
APPARENT OPENING SIZE	ASTM D4751	Mm (US STD SIEVE)	0.180 (80)
FLOW RATE	ASTM D4491	1/MIN/M ² (GAL/MIN/FT ²)	3866 (95)
PERMITTIVITY	ASTM D4491	S ⁻¹	1.2

- MAINTENANCE:**
1. DURING THE ACTIVE DEWATERING PROCESS, INSPECTION OF THE PUMPING BAG SHOULD BE REVIEWED FREQUENTLY. SPECIAL ATTENTION SHOULD BE PAID TO THE BUFFER AREA FOR ANY SIGN OF EROSION AND CONCENTRATION OF FLOW. OBSERVE WHERE POSSIBLE THE VISUAL QUALITY OF THE EFFLUENT AND DETERMINE IF ADDITIONAL TREATMENT CAN BE PROVIDED.
 2. DISPOSE OF ACCUMULATED SEDIMENT REMOVED DURING PUMPING OPERATIONS IN CONFORMANCE WITH THE SPECIFICATIONS.
 3. REPLACE THE BAG OR DISPOSE OF SILT WHEN HALF FULL OF SEDIMENT OR WHEN SEDIMENT HAS REDUCED THE FLOW RATE TO AN IMPRACTICAL RATE.

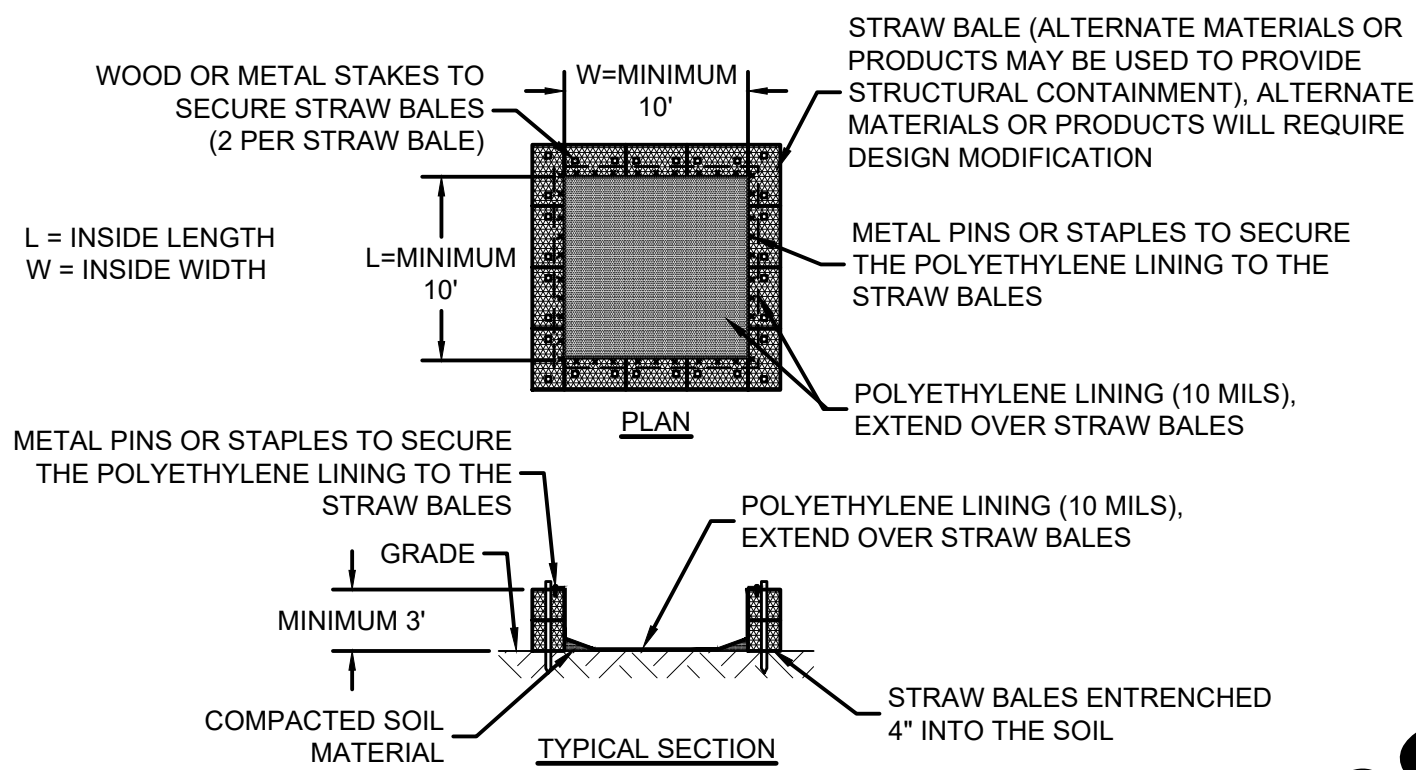
SOURCE:
KRISTAR
DANDY DEWATERING BAG
SEDCATCH

PUMPING BAG

SCALE: NONE

INLET PROTECTION

SCALE: NONE



- NOTES:**
1. LOCATE WASHOUTS AT LEAST 50' FROM ANY CREEKS, WETLANDS, DITCHES, KARST FEATURES, OR STORM DRAIN/CONVEYANCES.
- WASHOUT PROCEDURES:**
1. DO NOT LEAVE EXCESS MUD IN THE CHUTES OR HOPPER AFTER POURING. MAKE EVERY EFFORT TO EMPTY THE CHUTE AND HOPPER AT THE POUR. THE LESS MATERIAL LEFT IN THE CHUTES AND HOPPER, THE QUICKER AND EASIER THE CLEANOUT. SMALL AMOUNTS OF EXCESS CONCRETE (NOT WASHOUT WATER) MAY BE DISPOSED OF IN AREAS THAT WILL NOT FLOW TO AN AREA THAT IS TO BE PROTECTED.
 2. SCRAPE AS MUCH MATERIAL FROM THE CHUTES AS POSSIBLE BEFORE WASHING THEM. USE NON-WATER CLEANING METHODS TO MINIMIZE THE CHANCE FOR WASHOUT TO FLOW OFF SITE.
 3. STOP WASHING OUT IN AN AREA IF YOU OBSERVE SEEPING OFF THE DESIGNATED AREA OR IF THE WATER IS NOT BEING CONTAINED WITHIN THE WASHOUT AREA.
 4. DO NOT BACK FLUSH EQUIPMENT AT THE WASHOUT SITE.
 5. DO NOT USE ADDITIVES WITH WASHOUT WATER.
 6. DO NOT WASH OUT OR RAINWATER WATERS TO STORM DRAINS, WETLANDS, STREAMS, RIVERS, CREEKS, DITCHES OR STORM DRAINS.

- MAINTENANCE:**
1. MAINTENANCE REQUIREMENTS PROVIDED IN SPECIFICATIONS.

CONCRETE WASHOUT

SCALE: NONE

EROSION CONTROL SCHEDULE	
CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION
CONSTRUCTION ACCESS - ENTRANCE TO SITE, CONSTRUCTION ROUTES, AREAS DESIGNATED FOR EQUIPMENT PARKING OR MATERIAL STAGING.	THIS IS THE FIRST LAND-DISTURBING ACTIVITY. AS SOON AS CONSTRUCTION BEGINS, STABILIZE ANY BARE AREAS WITH AGGREGATE AND TEMPORARY VEGETATION.
INLET PROTECTION.	INSTALL INLET PROTECTION TO PREVENT SEDIMENTS FROM ENTERING STORM DRAINAGE SYSTEMS
SURFACE STABILIZATION - TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIPRAP, EROSION CONTROL BLANKET.	APPLY TEMPORARY OR PERMANENT STABILIZING MEASURES IMMEDIATELY TO ANY DISTURBED AREAS WHERE WORK HAS BEEN EITHER COMPLETED OR DELAYED.
CONSTRUCTION - STRUCTURES, UTILITIES, PAVING.	DURING CONSTRUCTION, INSTALL ANY EROSION AND SEDIMENTATION CONTROL MEASURES THAT ARE NEEDED.
LANDSCAPING AND FINAL STABILIZATION - TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIPRAP.	THIS IS THE LAST CONSTRUCTION PHASE. STABILIZE ALL DISTURBED AREAS, INCLUDING BORROW AND SPOIL AREAS, AND REMOVE ALL TEMPORARY CONTROL MEASURES. A UNIFORM DENSITY OF 70% VEGETATED COVER IS REQUIRED.

EROSION CONTROL SCHEDULE

SCALE: NONE

US 35 WATER MAIN REPLACEMENTS

TOWN OF GREENTOWN, INDIANA

EROSION CONTROL DETAILS

SHEET NO.

08

TOTAL SHEETS

08



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