

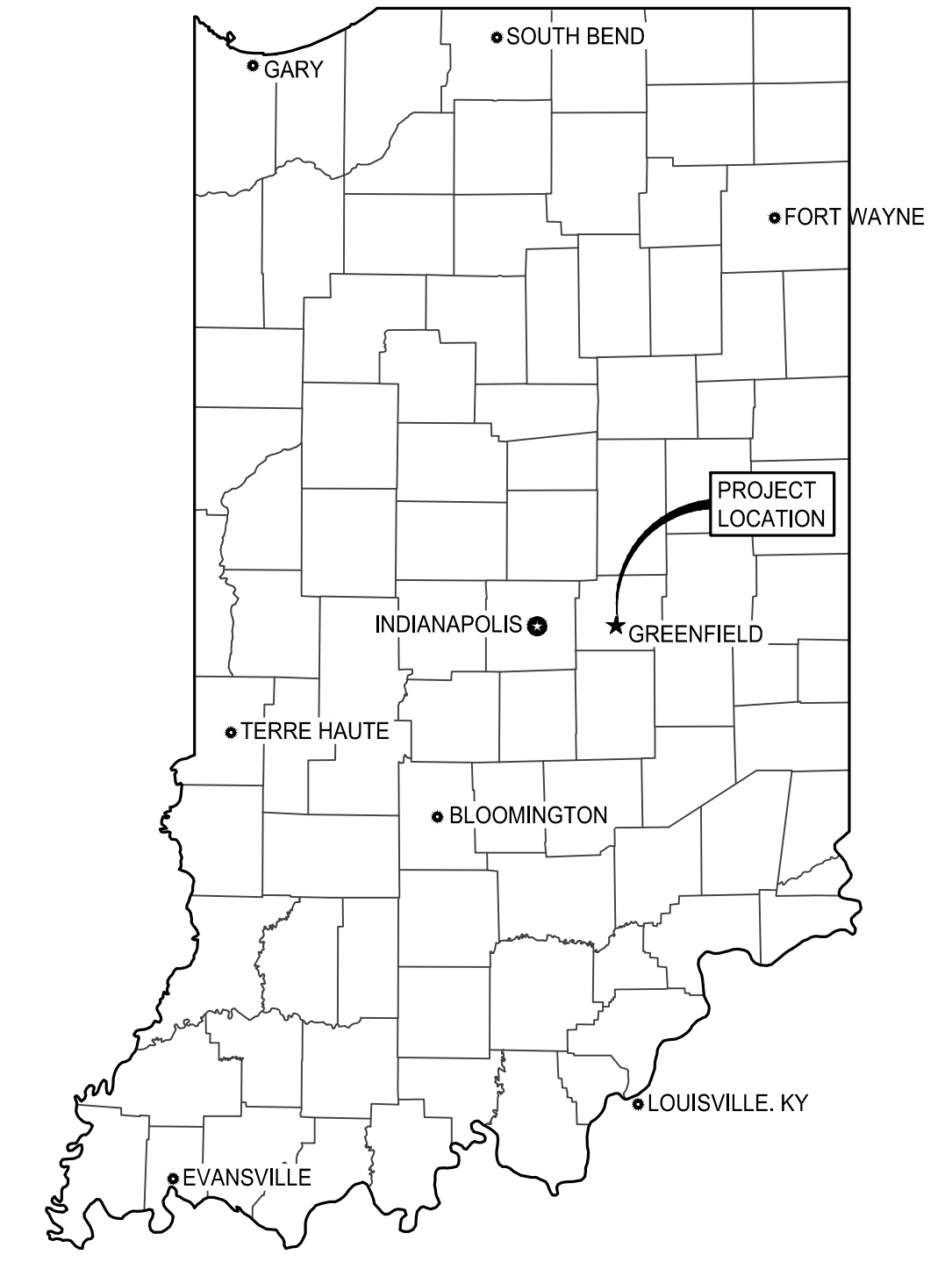
CITY OF GREENFIELD

PLANS FOR

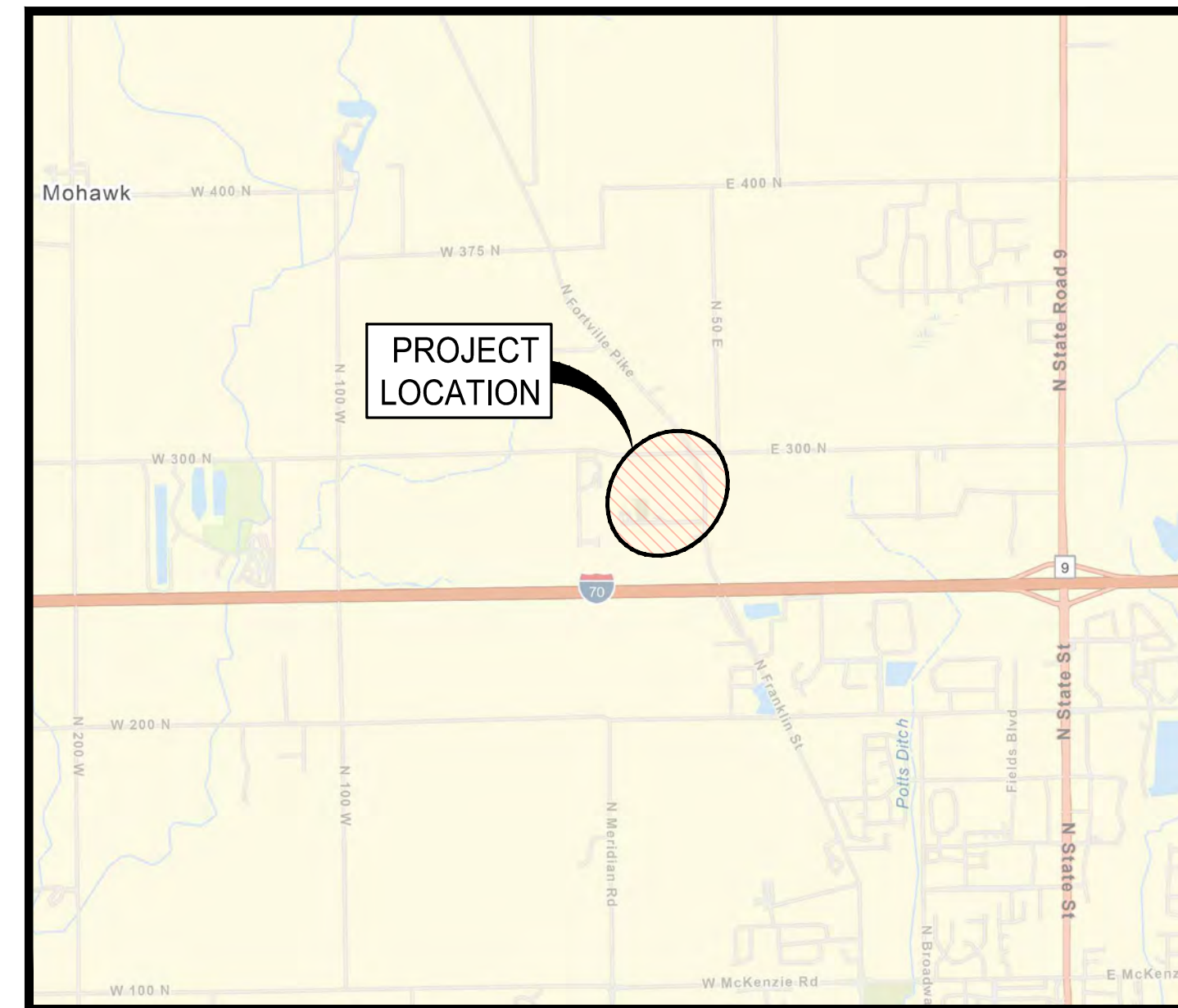
FRANKLIN STREET

SANITARY SEWER EXTENSION

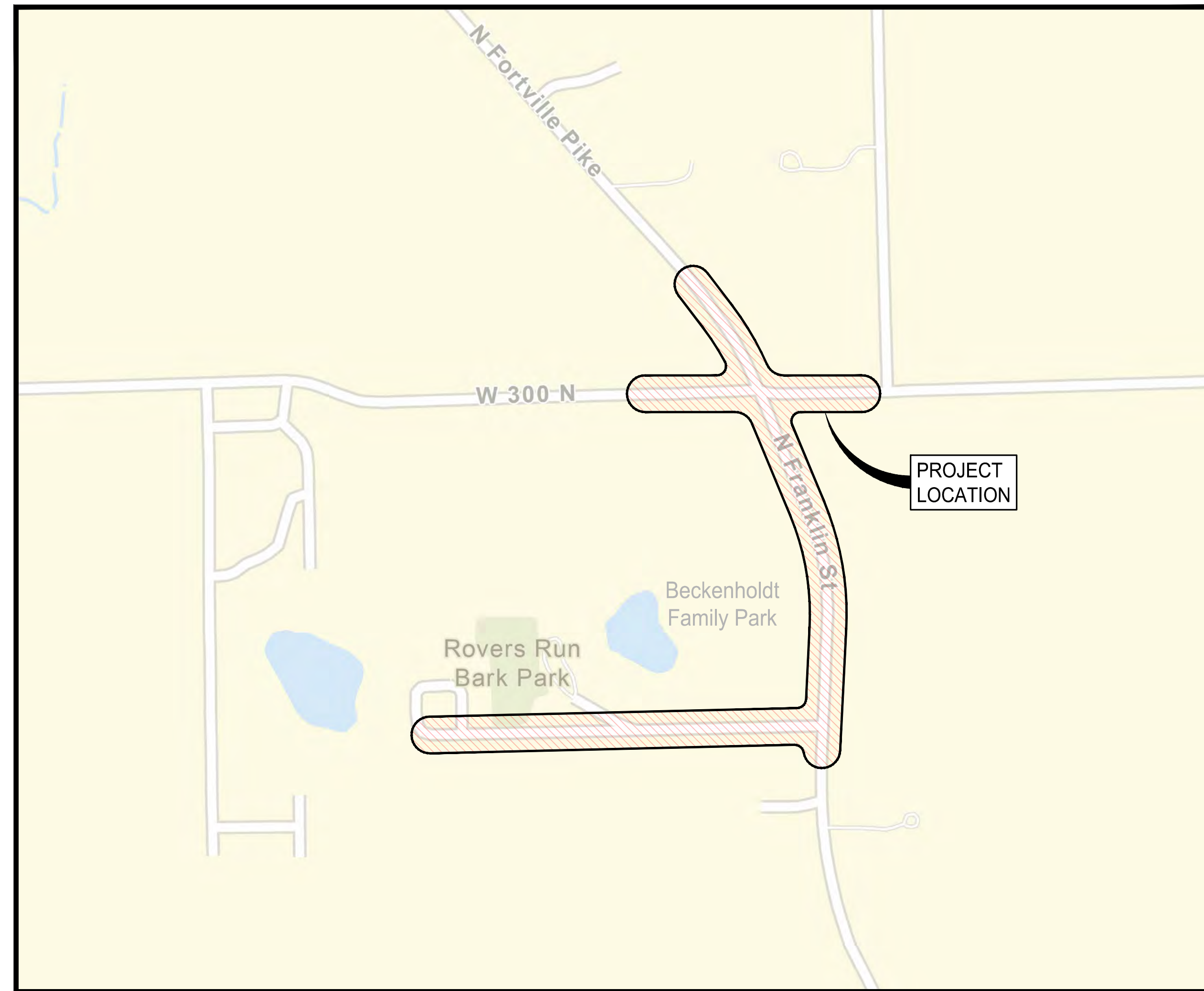
PROJECT NO. 2025.00749



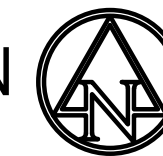
PLANS PREPARED FOR:
CITY OF GREENFIELD
 809 SOUTH STATE STREET
 GREENFIELD, IN 46140



VICINITY LOCATION
 NOT TO SCALE



PROJECT LOCATION
 NOT TO SCALE



AMERICAN
STRUCTUREPOINT
 INC.

116 EAST BERRY ST., STE 1515
 FORT WAYNE, IN 46802
 TEL 260.373.0600 FAX 260.373.0608
 www.structurepoint.com



Bryan L. Hood 5/15/2025
 BRYAN L. HOOD
 PROFESSIONAL ENGINEER No. 11500233
 STATE OF INDIANA

100% PLANS - 5/30/2025
 ADDENDUM NO. 1

UTILITIES

CABLE TV
COMCAST INDIANAPOLIS
5330 E. 65th ST.
INDIANAPOLIS, IN 46220
CONTACT: WILLIAM MORRIS
PHONE: (317) 710-0602

COMMUNICATIONS
CITY OF GREENFIELD
10 S. STATE ST.
GREENFIELD, IN 46140
CONTACT: ROB SOUCHON
PHONE: (317) 325-1602

ELECTRIC
NINESTAR CONNECT
2243 E. MAIN ST.
GREENFIELD, IN 46140
CONTACT: RUSTY HANSEN
PHONE: (317) 323-2088

COMMUNICATIONS
AT&T - DISTRIBUTION
240 N. MERIDIAN ST.
INDIANAPOLIS, IN 46204
CONTACT: TENDAL INMAN
PHONE: (317) 372-9885

ELECTRIC
DUKE ENERGY
1000 E. MAIN ST.
PLAINFIELD, IN 46168
CONTACT: ZACH BOSTON
PHONE: (317) 838-1053

GAS
CENTERPOINT ENERGY
4324 MIDDLE ROAD
COLUMBUS, IN 47203
CONTACT: TIMOTHY LANGSTON
PHONE: (812) 348-6703

COMMUNICATIONS
EVERSTREAM
342 MASSACHUSETTS AVE.
INDIANAPOLIS, IN 46204
CONTACT: EDDIE FIELDS
PHONE: (317) 691-0588

ELECTRIC, SEWER, WATER
GREENFIELD UTILITIES
451 MEEK ST.
GREENFIELD, IN 46140
CONTACT: CHARLES GILL
PHONE: (317) 325-1353

WASTEWATER
809 SOUTH STATE ST.
GREENFIELD, IN 46140
CONTACT: NICHOLAS DEZELAN
PHONE: (XXX) XXX-XXXX

COMMUNICATIONS
NINESTAR CONNECT
2243 E. MAIN ST.
GREENFIELD, IN 46140
CONTACT: JASON WARRICK
PHONE: (317) 323-2081

ELECTRIC
NINESTAR CONNECT
2243 E. MAIN ST.
GREENFIELD, IN 46140
CONTACT: ERIC MEYER
PHONE: (317) 326-3131



LEGEND:

EXISTING:

	AIR CONDITIONER		LIGHT POLE		TREE
	BEEHIVE INLET		MAIL BOX		WATER METER
	BRACE POLE		PINE TREE		WATER VALVE
	BUSH		POST		WELL
	CLEAN OUT		POWER POLE		YARD LIGHT
	COMBINATION POLE		RIGHT OF WAY MARKER		
	DRAINAGE INLET		SANITARY MH		
	DRAINAGE MH		SIGN		BURIED ELECTRIC LINE
	ELECTRIC HANDHOLE		SPRINKLER CONTROL VALVE		BURIED FIBER OPTIC LINE
	ELECTRIC METER BOX		STAND PIPE		BURIED GAS LINE
	FIRE HYDRANT		STUMP		BURIED TELEPHONE LINE
	FLAG POLE		TELEPHONE BOX		BURIED WATER LINE
	GAS MARKER		TELEPHONE HANDHOLE		OVERHEAD BRACE LINE
	GROUND LIGHT		TELEPHONE MARKER		OVERHEAD ELECTRIC LINE
	GUY WIRE		TELEPHONE PEDESTAL		OVERHEAD FIBER OPTIC LINE

PROPOSED:

	SANITARY MANHOLE		EROSION CONTROL - STRAW BALE
	SANITARY SEWER		EROSION CONTROL - RIPRAP
	SANITARY LATERAL		
	SANITARY PLUG / CAP		
	WATER MAIN		
	WATER FITTINGS		
	WATER VALVE		
	WATER PLUG / CAP		

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS FOR THIS PROJECT. ADDITIONS, DELETIONS, AND/OR REVISIONS TO THE SANITARY SEWER FACILITIES SHALL NOT BE MADE WITHOUT PRIOR APPROVAL BY THE ENGINEER. THE CONTRACTOR SHALL KEEP, AND MAINTAIN IN GOOD CONDITION, A COMPLETE SET OF THE PROJECT PLANS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.
- CONTRACTOR SHALL CONTACT CITY OF GREENFIELD AND UTILITY COMPANIES A MINIMUM OF 48 HOURS IN ADVANCE OF WORKING IN ANY AREAS. IT IS CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL UTILITIES IN HIS WORK AREA WHETHER SHOWN OR NOT.
- ALL EXCESS EXCAVATED OR CLEARED MATERIAL SHALL BE DISPOSED OF LAWFULLY BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS OR IN THE SPECIFICATIONS.
- CONTRACTOR SHALL MAKE ALL MEASUREMENTS AND CHECK ALL DIMENSIONS NECESSARY FOR THE PROPER INSTALLATION OF THE WORK CALLED FOR BY THE DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL MAKE ALL NECESSARY MEASUREMENTS TO PREVENT MISFITTING IN SAID WORK AND SHALL BE RESPONSIBLE FOR THE ACCURATE CONSTRUCTION OF THE ENTIRE WORK.
- ACTIVE FLOWS SHALL BE DIVERTED WITH FLOW THROUGH PLUGS OR BYPASS PUMPED AS REQUIRED TO ENSURE THAT THE LIQUID FLOW IS MAINTAINED.
- IN THE EVENT THAT THE CONTRACTOR DISCOVERS A DISCREPANCY ON THE CONSTRUCTION PLANS OR A POTENTIAL UTILITY CONFLICT, HE SHALL CONTACT THE ENGINEER IMMEDIATELY FOR CLARIFICATION, PRIOR TO PROCEEDING WITH CONSTRUCTION OF THE PORTION IN QUESTION.
- ALL DISTURBED AREAS INCLUDING, BUT NOT LIMITED TO, STREETS, DRIVES, WALKS, LAWNS, ETC. SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION. IF DAMAGED, ALL CULVERTS, STORM PIPES, AND APPURTENANCES SHALL BE REPLACED WITH NEW MATERIALS OF COMPARABLE SIZE. CULVERT SIZE SHALL NOT BE SMALLER THAN 12 INCHES. SWALES, DITCHES, ETC. SHALL BE RE-GRADED TO PROVIDE POSITIVE DRAINAGE.
- THE CONTRACTOR SHALL PROTECT POWER POLES AND OTHER UTILITIES FROM DAMAGE, IN A MANNER APPROVED BY UTILITY.
- THE USE OF EXPLOSIVES FOR "ROCK REMOVAL" IS PROHIBITED UNLESS OTHERWISE AUTHORIZED IN WRITING.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS REQUIRED FOR THE PROJECT NOT IDENTIFIED IN THE CONTRACT DOCUMENTS AS OBTAINED BY OWNER, AND PAYING ALL PERMIT COSTS, TAP FEES, METER DEPOSITS, BONDS AND OTHER FEES REQUIRED FOR THE WORK.
- CONSTRUCTION SHALL NOT COMMENCE UNTIL ALL NECESSARY LOCAL PERMITS HAVE BEEN OBTAINED.
- ALL GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL HAVE TEMPORARY SEEDING AND MULCHED SEEDING ONCE WORK IN THE AREA IS COMPLETE.
- THE CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURES TO ENSURE THE AREA IS NOT ADVERSELY IMPACTED BY DUST CREATED BY CONSTRUCTION. IN THE EVENT WATER IS USED AS A DUST CONTROL METHOD, ONLY A LIGHT MISTING SHALL BE ACCEPTABLE. A HEAVIER FLUSH TO PUSH DUST AND DEBRIS DOWN A STORM DRAIN IS UNACCEPTABLE.
- COMPACTED GRANULAR BACKFILL OR FLOWABLE FILL SHALL BE REQUIRED FOR BACKFILLING UNDER PAVEMENT, GRAVEL DRIVES, AND WITHIN 5 FEET OF THE EDGE OF PAVEMENT AND GRAVEL DRIVES.
- CONTRACTOR SHALL CONDUCT A "WALK THROUGH" MEETING WITH OWNER, AND ENGINEER WHEN THE CONTRACTOR BELIEVES THE FINAL RESTORATION IS COMPLETE TO ENSURE THE RESTORATION MEETS THE REASONABLE EXPECTATIONS OF THE PROPERTY OWNERS.
- THE CONTRACTOR SHALL PROVIDE, AT HIS EXPENSE, ALL AUTOMOBILE AND PEDESTRIAN TRAFFIC CONTROL DEVICES REQUIRED BY FEDERAL, STATE, COUNTY, CITY, OR LOCAL AGENCIES. THE AMOUNT, LOCATION, AND SIZE SHALL BE AS REQUIRED BY THE AGENCY.
- WHERE NEW WORK ABUTS EXISTING CURBS, SIDEWALK, DRIVES, OR OTHER PAVEMENTS WHICH ARE TO REMAIN IN PLACE, THE CONTRACTOR SHALL PROVIDE NEAT SAWCUTS, FULL DEPTH AT THE LIMIT OF CONSTRUCTION. PAYMENT FOR SAWCUTS SHALL BE INCLUDED IN THE APPROPRIATE BID ITEM.
- THE DRAWINGS DO NOT SHOW PHASING OR SEQUENCING OF THE PROJECT WORK.
- THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS LISTED THEREIN AND SHALL MAINTAIN VEHICULAR ACCESS AT ALL TIMES TO ALL PROPERTY ADJACENT TO THE CONTRACTORS WORK THE CONTRACTOR SHALL COMPLY WITH THE CITY OF GREENFIELD AND STATE OF INDIANA REQUIREMENTS FOR TRAFFIC CONTROL IN ADDITION TO THE SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY POLICE AND FIRE DEPARTMENT OFFICIALS OF ALL CLOSED OR BLOCKED STREETS AND ALLEYS.
- THE CONTRACTOR SHALL PURSUE THE PROJECT IN SUCH A MANNER AS TO MINIMIZE BOTH THE EXTENT AND THE DURATION OF THE DISRUPTION OF TRAFFIC AND TO MAINTAIN THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE STREET. ANY STREET CLOSURES WHICH ARE REQUIRED DURING CONSTRUCTION OF THIS PROJECT, WILL BE APPROVED ONLY BY THE CITY OF GREENFIELD. CONTRACTOR SHALL NOTIFY VIA DOOR HANGER ALL AFFECTED HOMEOWNERS A MINIMUM OF 24 HOURS IN ADVANCE OF ANY STREET CLOSURES.
- THE CONTRACTOR SHALL SECURE HIS WORK AREA AT ALL TIMES AND PROHIBIT UNAUTHORIZED ACCESS BY THE GENERAL PUBLIC. THE CONTRACTOR SHALL PROVIDE, AT ALL TIMES, A SAFE PEDESTRIAN WALKWAY AROUND THE WORK AREA FOR ACCESS WHEN WORKING ACROSS SIDEWALKS. FOR PROPERTIES ADJACENT TO THE WORK AREA, THE CONTRACTOR SHALL PROVIDE FACILITIES FOR PEDESTRIAN AND VEHICULAR INGRESS AND EGRESS.
- THE CONTRACTOR SHALL CONFIRM IN THE FIELD LOCATIONS OF PARTIAL REPAIRS BEFORE BEGINNING EXCAVATION ASSOCIATED WITH THE REPAIR.
- FIELD TILE ENCOUNTERED SHALL BE REPAIRED AND/OR REPLACED TO ITS ORIGINAL CONDITION OR BETTER AND FLOW DIRECTION.
- REMOVAL OF EXISTING CONCRETE AND ASPHALT PAVEMENT SHALL INCLUDE ALL AGGREGATE BASE AND SUB-GRADE MATERIALS. SAW-CUT ALL EXISTING PAVED AREAS. ALL CUTS SHALL BE CLEAN, NEAT, AND TRUE TO LINE. ALL CONCRETE AND ASPHALT PAVEMENT MATERIAL TO BE DEMOLISHED SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL MUD, DIRT, GRAVEL, AND ANY OTHER MATERIALS TRACKED ONTO ANY PUBLIC OR PRIVATE STREETS, PARKING LOTS, OR WALKS. THIS MATERIAL REMOVAL OR SWEEPING OF THE STREETS SHALL BE DONE AS FREQUENTLY AS NECESSARY TO MAINTAIN CLEAN STREETS. THE CONTRACTOR MUST ALSO KEEP AIRBORNE DIRT AND DUST TO A MINIMUM BY USING WATER OR OTHER METHODS AS NECESSARY.
- CAUTION !! - THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION. - CALL TOLL FREE 1(800)382-5544 INDIANA UNDERGROUND.
- WATER MAIN CROSSING ANY AND ALL SANITARY SEWERS SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN PIPE AND THE SEWER PIPE. ONE FULL LENGTH OF PIPE SHALL BE CENTERED AT THE POINT OF THE CROSSING SUCH THAT BOTH JOINTS WILL BE EQUIDISTANT AND AS FAR AWAY FROM THE WATER MAIN AS POSSIBLE.
- DISCLAIMER -- ONGOING CONSTRUCTION ACTIVITIES AS PART OF ROUNDABOUT PROJECT 2205FFE P.E.

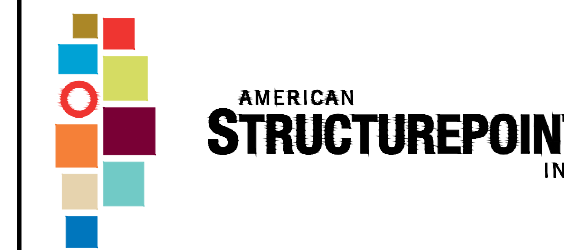
ABBREVIATIONS

A/C	AIR CONDITIONING	CLR	CLEARANCE	DIMJ	DUCTILE IRON MECHANICAL JOINT	FLEX	FLEXIBLE	IN	INCH	OH	OVERHEAD	RCP	REINFORCED CONCRETE PIPE	TAN	TANGENT	VOL	VOLUME
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	CMP	CORRUGATED METAL PIPE	DIRJ	DUCTILE IRON RESTRAINED JOINT	FT	FOOT (FEET)	INV	INVERT	P	POLE	RD	ROOF DRAIN	TBA	TO BE ABANDONED THIS CONTRACT	W	WATER
APPROX	APPROXIMATE	CPP	CORRUGATED PLASTIC PIPE	DWG	DRAWING	FTG	FOOTING	LF	LINEAR FEET	PP	POWER POLE	REF	REFERENCE	TBM	TEMPORARY BENCHMARK	W	WEST
ARCH	ARCHITECT	CMU	CONCRETE MASONRY UNIT	E	EAST	G	GAS	LPT	LOW POINT	PERF	PERFORATED	REQD	REQUIRED	TEL	TELEPHONE	W	WIDE (WIDTH)
ARV	AIR RELIEF VALVE	CO	CLEANOUT	E	EAST	GAL	GALLON(S)	MATL	MATERIAL	PI	POINT OF INTERSECTION	REV	REVISION	TEMP	TEMPORARY	W/	WITH
ASPH	ASPHALT	CONC	CONCRETE	E	ELECTRIC	GALV	GALVANIZED	MECH	MECHANICAL	R/W	RIGHT OF WAY	ROW	RIGHT OF WAY	TH	TELEPHONE HANDHOLE	W/O	WITHOUT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	CP	CONTROL POINT	EL	ELEVATION	GPM	GALLONS PER MINUTE	MFG	MANUFACTURING	PL	PLATE	R/W	RIGHT OF WAY	THK	THICK(NESS)	WS	WATERSTOP
C TO C	CENTER TO CENTER	ELEV	ELEVATION	GV	GAS VALVE	MFR	MANUFACTURER	MH	MANHOLE	PL	PROPERTY LINE	S	SOUTH	TOB	TOP OF BANK	WT	WEIGHT
AUTO	AUTOMATIC	CU FT	CUBIC FEET	EA	EACH	HB	HOSE BIBB	MIN	MINIMUM	PPM	PARTS PER MILLION	SCHD	SCHEDULE	TOPO	TOPOGRAPHY	WW	WATER VALVE
BB	BUFFALO BOX	CU YD	CUBIC YARDS	ELEC	ELECTRIC	HOPE	HIGH DENSITY POLYETHYLENE	MISC	MISCELLANEOUS	PREFAB	PREFABRICATED	SD	STORM DRAIN	TOS	TOE OF SLOPE	YD	YARD
BDRY	BOUNDARY	DAT	DATUM	EQ	EQUAL	HH	HANDHOLE	MJ	MECHANICAL JOINT	PRKG	PARKING	SEC	SECTION	TOW	TOP OF WALL		
BFV	BUTTERFLY VALVE	DEM	DEMOLITION	EQUIP	EQUIPMENT	HH	HANDHOLE	NIC	NOT IN CONTRACT	PROJ	PROJECT	SEC	SECTION	TR	TOP OF RIM		
BLDG	BUILDING	DEPT	DEPARTMENT	EX	EXISTING	HORIZ	HORIZONTAL	NO	NUMBER	PSI	POUNDS PER SQUARE INCH	SPEC	SPECIFICATION	TR	TRAFFIC POLE		
BM	BENCHMARK	DET	DETAIL	EXIST	EXISTING	HP	HORSE POWER	NOM	NOMINAL	PT	POINT	SS	STAINLESS STEEL	TR	TRAFFIC POLE		
CB	CATCH BASIN	DI	DUCTILE IRON	FD	FLOOR DRAIN	HPT	HIGH POINT	NTS	NOT TO SCALE	PV	PLUG VALVE	STA	STATION	TV	TELEVISION		
CI	CURB INLET	DIA	DIAMETER	FH	FIRE HYDRANT	HT	HEIGHT	OC	ON CENTER	PVC	POLYVINYL CHLORIDE	STD	STANDARD	TYP	TYPICAL		
CIP	CAST-IN-PLACE	DIM	DIMENSION	FIG	FIGURE	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	QTY	QUANTITY	STRUCT	STRUCTURAL	STRUC	STRUCTURAL	UTIL	UTILITY		
CIPP	CURED IN PLACE PIPE	FIN	FINISH	FIN	FINISH	ID	INSIDE DIAMETER	OD	OUTSIDE DIAMETER	R	RADIUS	SYS	SYSTEM	VERT	VERTICAL		

DRAWING INDEX

SHEET NO.	DESCRIPTION
GENERAL	
C-101	TITLE SHEET
C-102	INDEX AND GENERAL INFORMATION
C-103	FLOODWAY GENERAL INFORMATION
C-104	BENCHMARK AND CONTROL POINT DATA
C-105	OVERALL PLAN
TRAFFIC PLAN	
C-106	TRAFFIC PLAN
C-107	TRAFFIC PLAN
PLAN AND PROFILE	
C-108	PLAN AND PROFILE - SANITARY SEWER - LINE "S1" MANDATORY ALTERNATE BID NO. 2
C-109	PLAN AND PROFILE - SANITARY SEWER - LINE "S1" MANDATORY ALTERNATE BID NO. 2
C-110	PLAN AND PROFILE - SANITARY SEWER - LINE "S1" MANDATORY ALTERNATE BID NO. 2
C-111	PLAN AND PROFILE - SANITARY SEWER - LINE "S1" MANDATORY ALTERNATE BID NO. 2
C-112	PLAN AND PROFILE - SANITARY SEWER - LINE "S1" MANDATORY ALTERNATE BID NO. 2
C-113	PLAN AND PROFILE - SANITARY SEWER - LINE "S1" BASE BID
C-114	PLAN AND PROFILE - SANITARY SEWER - LINE "S1" BASE BID
C-115	PLAN AND PROFILE - SANITARY SEWER - LINE "S2" BASE BID
C-116	PLAN AND PROFILE - SANITARY SEWER - LINE "S2" BASE BID
C-117	PLAN AND PROFILE - WATER MAIN - LINE "W1" MANDATORY ALTERNATE BID NO. 1
C-118	PLAN AND PROFILE - WATER MAIN - LINE "W1" MANDATORY ALTERNATE BID NO. 1
C-119	PLAN AND PROFILE - WATER MAIN - LINE "W2" MANDATORY ALTERNATE BID NO. 1
TRAIL	
C-201	CONSTRUCTION DETAILS MANDATORY ALTERNATE BID NO. 2
C-202	CONSTRUCTION DETAILS MANDATORY ALTERNATE BID NO. 2
C-203	CONSTRUCTION DETAILS MANDATORY ALTERNATE BID NO. 2
C-204	CONSTRUCTION DETAILS MANDATORY ALTERNATE BID NO. 2
DETAILS	
C-301	STANDARD DETAILS
C-302	STANDARD DETAILS
C-303	STANDARD DETAILS
EROSION CONTROL	
C-401	EROSION CONTROL PLAN
C-402	EROSION CONTROL DETAILS

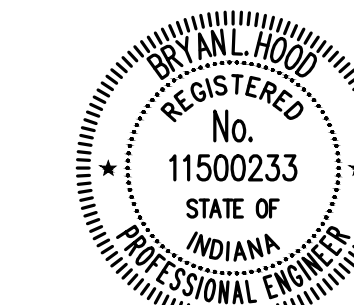
CITY OF GREENFIELD



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FRANKLIN STREET
SANITARY SEWER EXT.

Greenfield, Indiana



Bryan L. Howard 5/15/2025
CERTIFIED BY

ISSUANCE INDEX	
DATE:	5/15/2025
PROJECT PHASE:	100% PLANS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1	THIS SHEET REPLACES PREVIOUSLY DATED SHEET: 5/15/2025	5/30/25

Project Number 2025.00749

INDEX AND
GENERAL
INFORMATION

C-102

PLOT DATE: 5/30/2025 9:47 AM EDITED BY: PFRAMINSKI DRAWING FILE: P:\2025\00749\0 DRAWINGS\UTILITY INFRASTRUCTURE\202500749.UIN.DWG



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR DRAFT FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AP
OTHER AREAS OF FLOOD HAZARD		Regulatory Floodway
		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
OTHER AREAS		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee See Notes Zone X
GENERAL STRUCTURES		Area with Flood Risk due to Levee Zone D
		NO SCREEN Area of Minimal Flood Hazard Zone X
OTHER AREAS		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
OTHER FEATURES		Coastal Transect
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Map Information Exchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Flood Map Service Center website at <https://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Flood Map Service Center at the number listed above.

For community and countywide map dates, refer to the Flood Insurance Study Report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-4820.

Basemap information shown on this FIRM was provided in digital format by USDA, Farm Service Agency (FSA). This information was derived from NAIP dated April 11, 2016.

This map was exported from FEMA's National Flood Hazard Layer (NFHL) on 4/1/2025 3:47 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time. For additional information, please see the Flood Hazard Mapping Updates Overview Fact Sheet at <https://www.fema.gov/media-library/assets/documents/116418>

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards. This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date.

SCALE

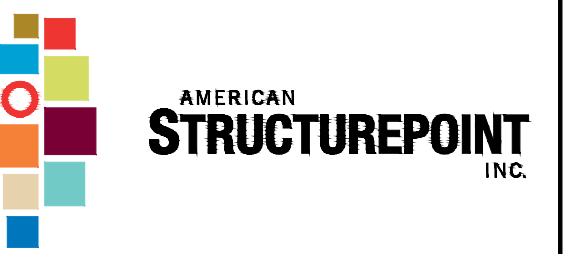
Map Projection: GCS, Geodetic Reference System 1980,
Vertical Datum: NAVD88
For information about the specific vertical datum for elevation features, datum conversions, or vertical monuments used to create this map, please see the Flood Insurance Study (FIS) Report for your community at <https://msc.fema.gov>

FEDERAL EMERGENCY MANAGEMENT AGENCY
National Flood Insurance Program
NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP
PANEL 133 of 259

Panel Contains:	COMMUNITY	NUMBER	PANEL
	HANCOCK COUNTY CITY OF GREENFIELD	180084	0133

MAP NUMBER
18059C0133D
EFFECTIVE DATE
December 04, 2007

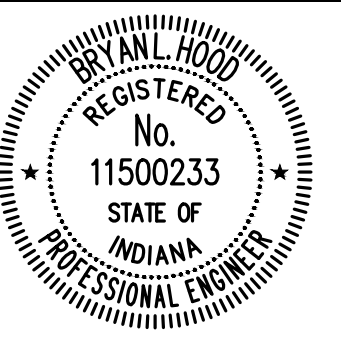
CITY OF GREENFIELD



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FRANKLIN STREET SANITARY SEWER EXT.

Greenfield, Indiana



Bryan L. Hood 5/15/2025
CERTIFIED BY

ISSUANCE INDEX	
DATE:	5/15/2025
PROJECT PHASE:	100% PLANS

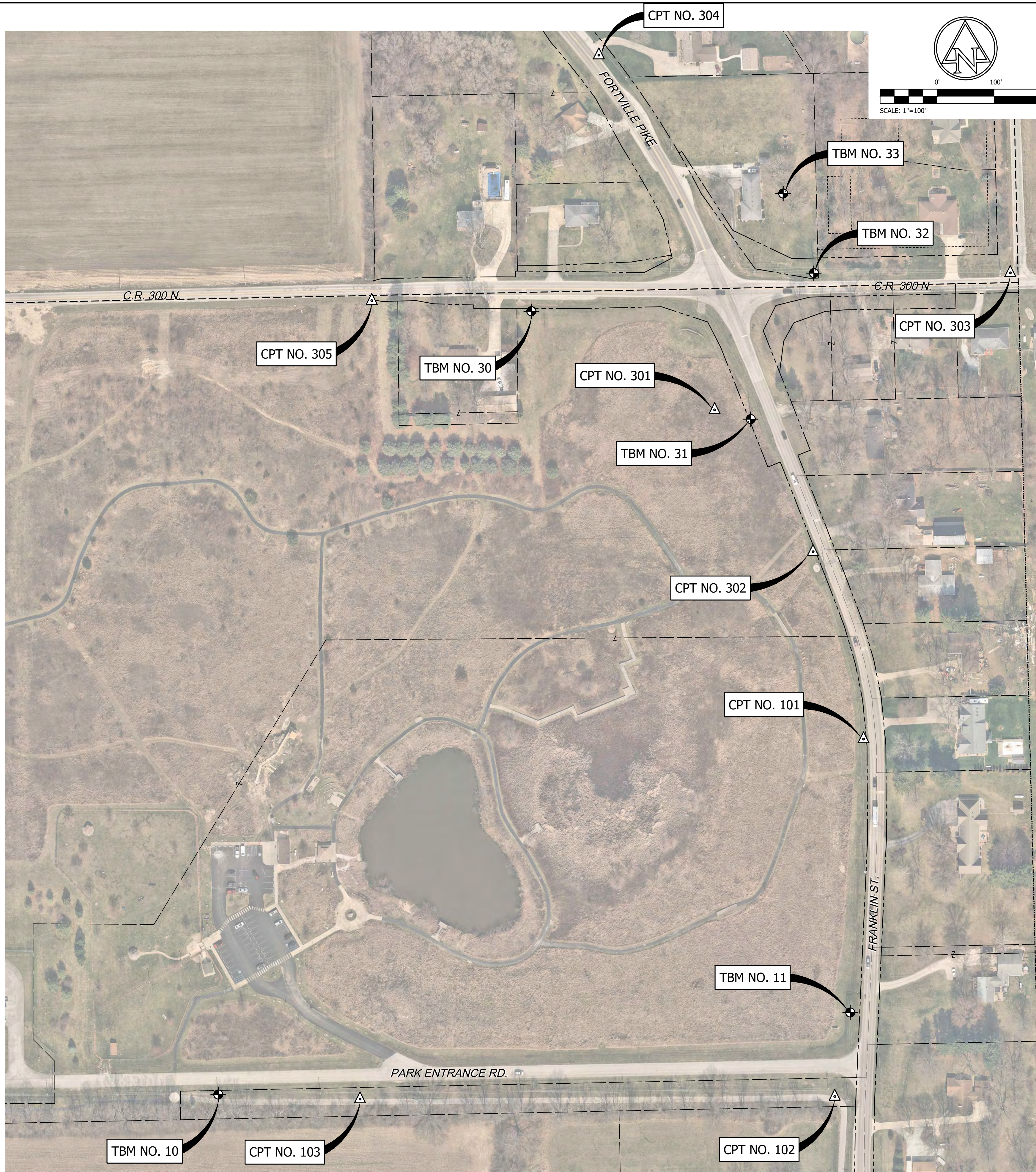
REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1	THIS SHEET REPLACES PREVIOUSLY DATED SHEET: 5/15/2025	5/30/25

Project Number 2025.00749

FLOODWAY GENERAL INFORMATION

C-103

PLOT DATE: 5/30/2025 9:48 AM EDITED BY: PFRANKINSKI DRAWING FILE: P:\2025\00749\0 DRAWINGS\UTILITY INFRASTRUCTURE\202500749.U.I.CP.DWG

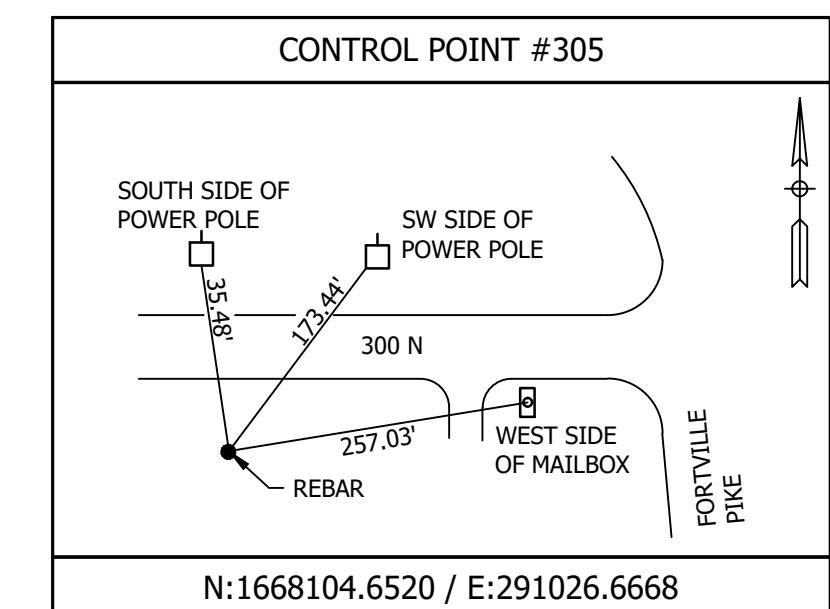
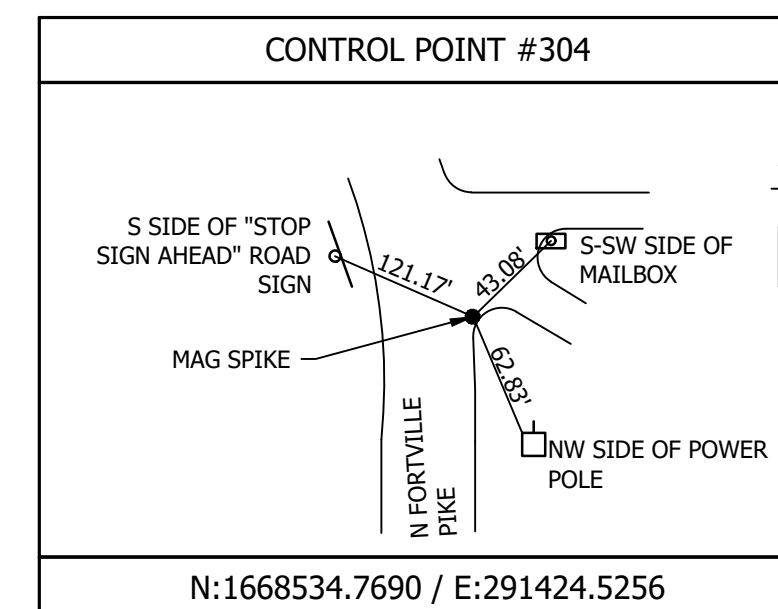
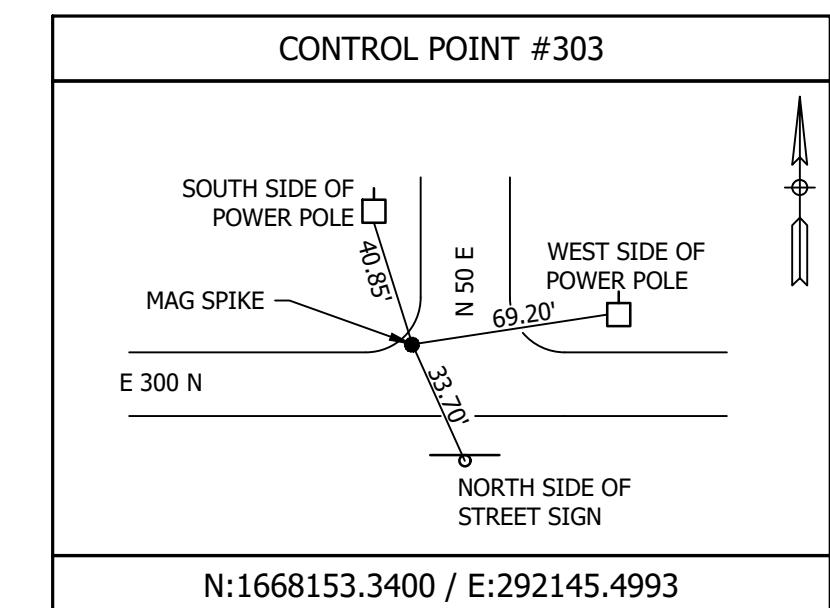
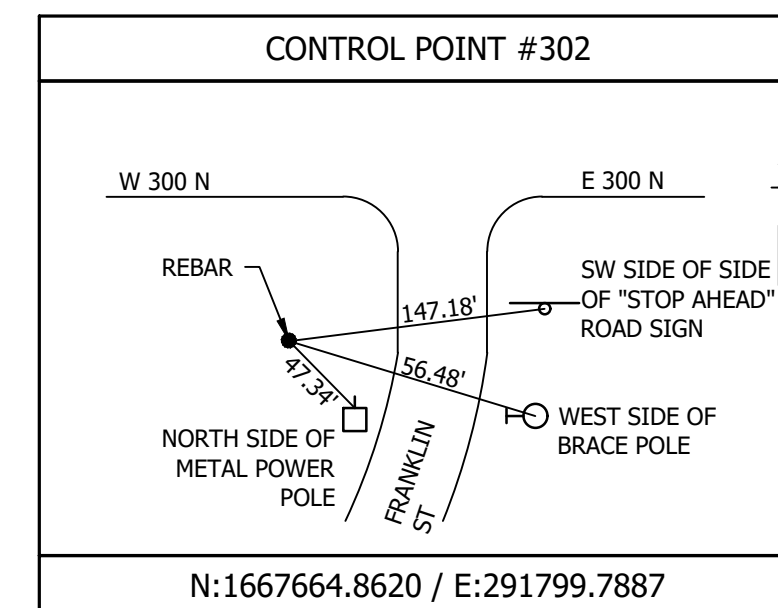
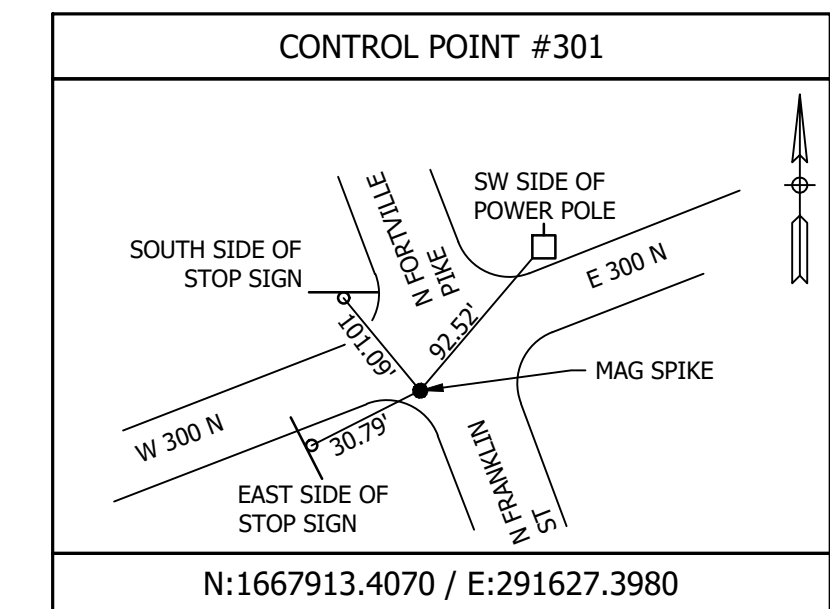
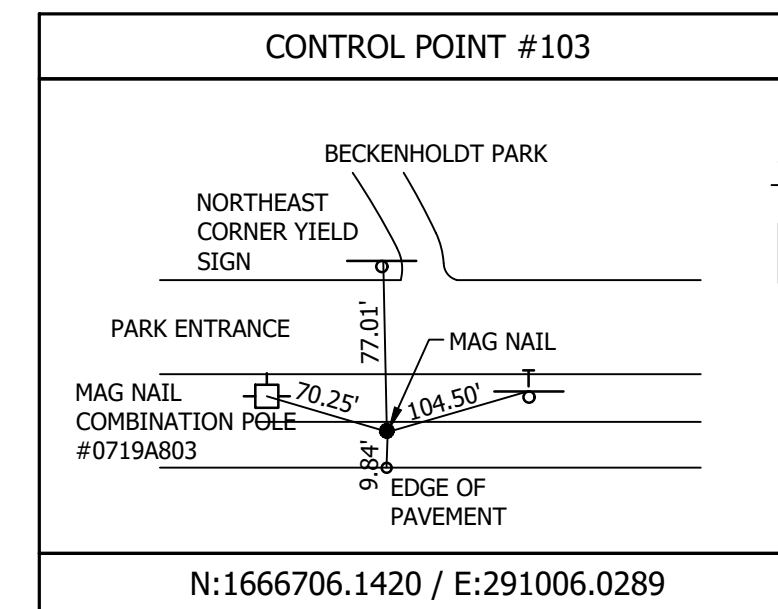
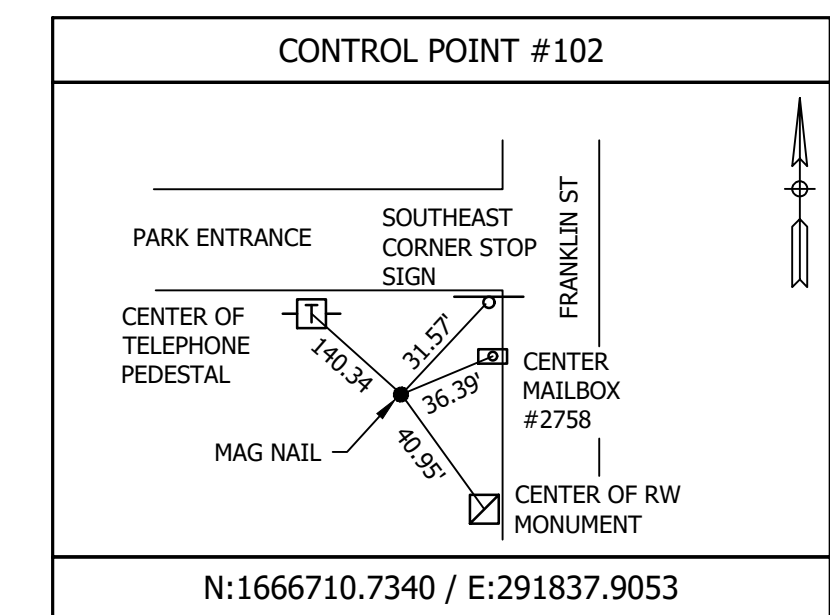
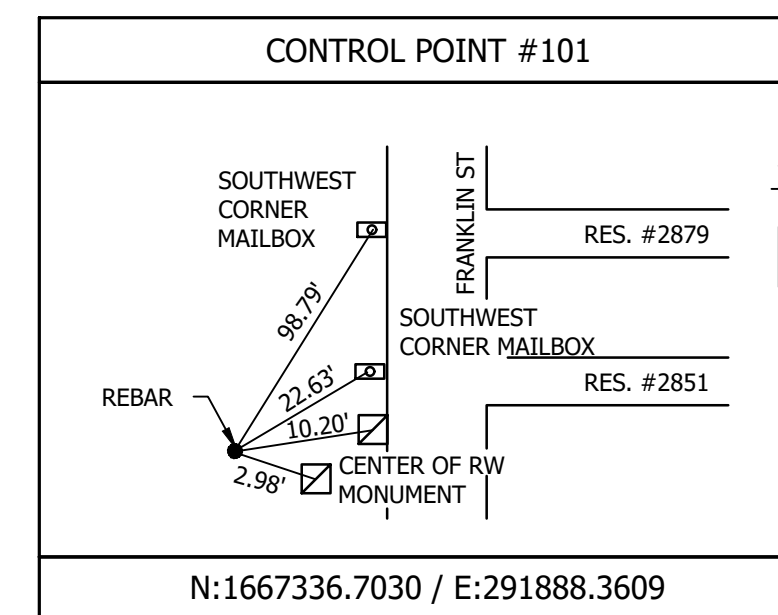


BENCHMARK INFORMATION (NAVD 88 DATUM)

BENCHMARK ELEVATIONS WERE ESTABLISHED FROM GPS OBSERVATIONS ON THE IDENTIFIED BASE STATION DESCRIBED WITHIN. AN NGS OPUS SOLUTION (FILE #20-04752680) WAS OBTAINED AND USED TO CONTROL THE PROJECT'S VERTICAL DATUM. THE ELEVATIONS WERE THEN TRANSFERRED TO THE SITE USING DIFFERENTIAL LEVELING.

BENCHMARK AND CONTROL DATA - 88' DATUM

TBM NO.	ELEV.	DESCRIPTION
10	902.82	MAG SPIKE IN THE NORTH SIDE OF COMBINATION POLE, SOUTH SIDE OF PARK ENTRANCE ROAD, 300'± EAST OF TREATMENT PLANT GATE.
11	903.31	MAG SPIKE IN THE EAST SIDE OF COMBINATION POLE AT THE NORTHWEST CORNER OF GREENFIELD AVENUE & PARK ENTRANCE.
30	907.53	CHISELED "X" ON THE W BOLT OF A FIRE HYDRANT ON THE SOUTH SIDE OF CR 300 AND ±125' E OF RES# 287.
31	904.77	MAG SPIKE SET IN THE EAST FACE OF A POWER POLE, ±40' WEST OF FORTVILLE PIKE AND ±200' SOUTH OF CR 300.
32	908.59	MAG SPIKE SET IN THE SOUTH FACE OF A COMBO POLE, ±30' NORTH OF CR 300 AND ±150' EAST OF FORTVILLE PIKE.
33	915.21	MAG SPIKE SET IN THE WEST FACE OF A POWER POLE, ±40' EAST OF FORTVILLE PIKE AND ±180' NORTH OF CR 300.



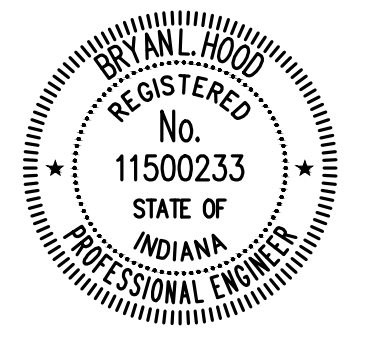
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Greenfield, Indiana



Bryan L. Hood 5/15/2025
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ISSUANCE INDEX

DATE:	5/15/2025
PROJECT PHASE:	100% PLANS

REVISION SCHEDULE

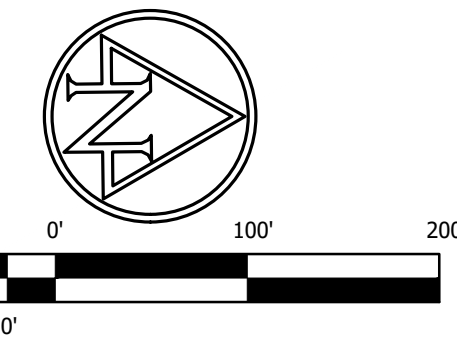
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Project Number 2025.00749

BENCHMARK AND CONTROL POINT DATA

C-104

PLOT DATE: 5/30/2025 9:48 AM EDITED BY: P.FRAMINSKI DRAWING FILE: P:\2025\00749\0 DRAWINGS\UTILITY-INFRASTRUCTURE\202500749.U.I.OP.DWG



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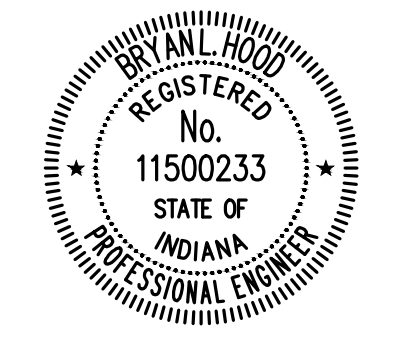


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ISSUANCE INDEX		
DATE:	5/15/2025	
PROJECT PHASE:	100% PLANS	

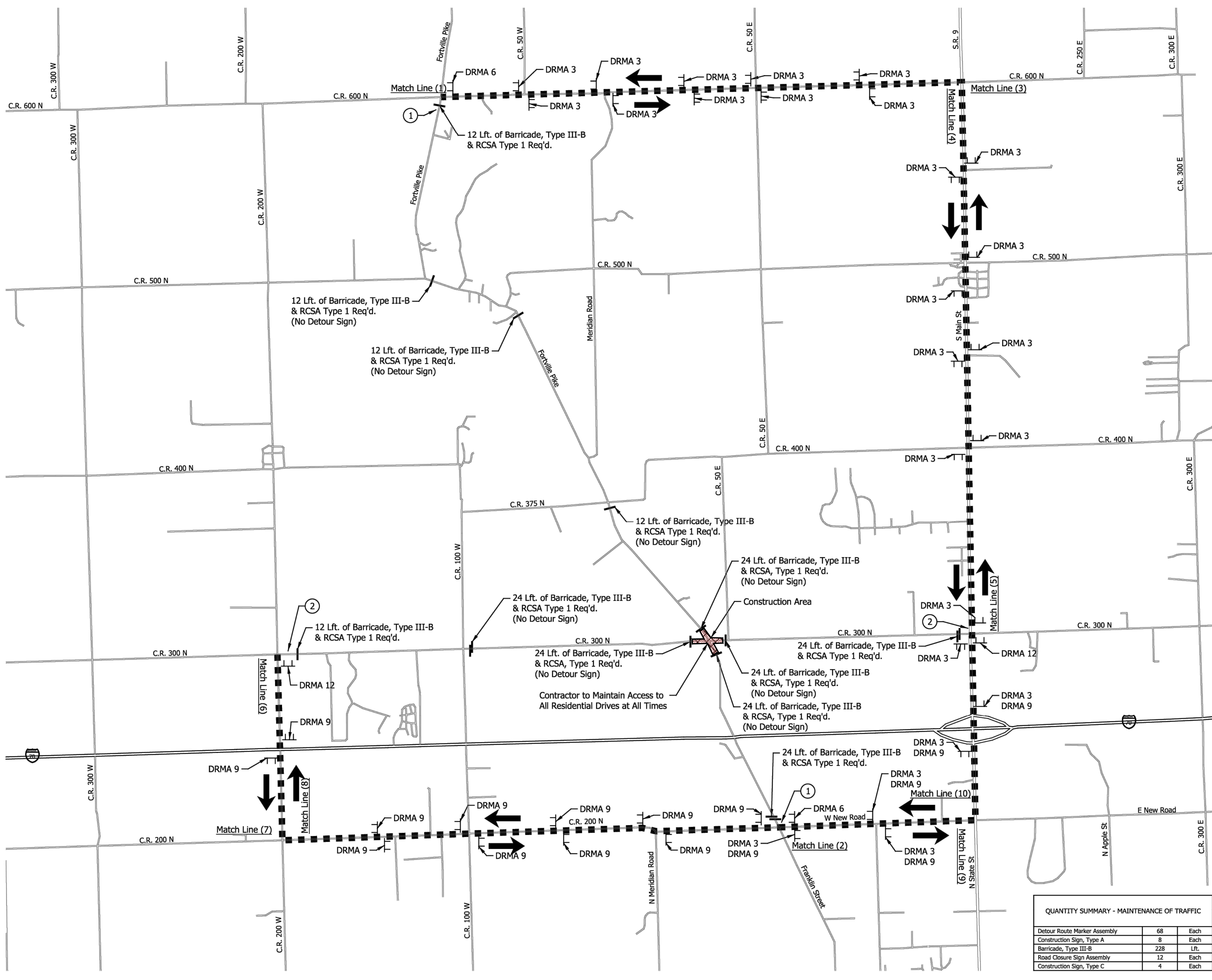
REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
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Project Number 2025.00749

OVERALL PLAN

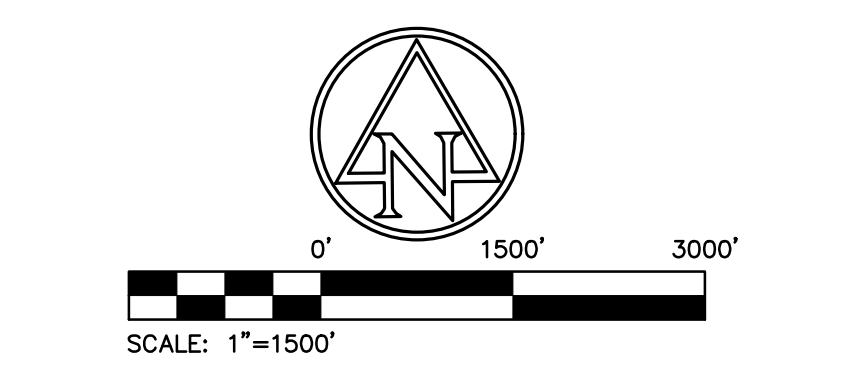
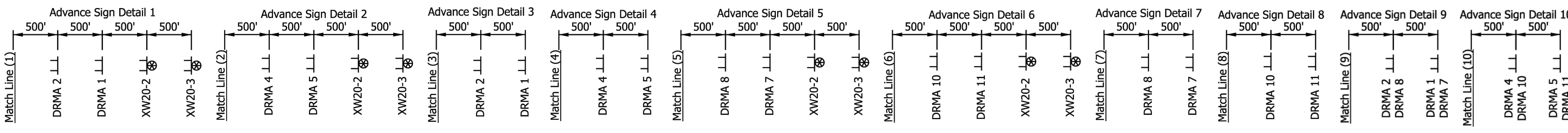
C-105

PLOT DATE: 5/30/2025 9:48 AM EDITED BY: PFRAMINSKI DRAWING FILE: P:\2025\00749\0 - DRAWINGS\UTILITY - INFRASTRUCTURE\202500749.U1.TP.DWG



QUANTITY SUMMARY - MAINTENANCE OF TRAFFIC

Detour Route Marker Assembly	68	Each
Construction Sign, Type A	8	Each
Barricade, Type III-B	228	Lft.
Road Closure Sign Assembly	12	Each
Construction Sign, Type C	4	Each



DETOUR Fortville Pike ←	DETOUR Fortville Pike ←	DETOUR Fortville Pike ↑
DRMA 1 XM 4-8 XD 3-1 M 5-1 (L)	DRMA 2 XM 4-8 XD 3-1 M 6-1 (L)	DRMA 3 XM 4-8 XD 3-1 M 6-3 (S)
DETOUR CR 300 N ←	DETOUR CR 300 N ←	DETOUR CR 300 N ↑
DRMA 7 XM 4-8 XD 3-1 M 5-1 (L)	DRMA 8 XM 4-8 XD 3-1 M 6-1 (L)	DRMA 9 XM 4-8 XD 3-1 M 6-3 (S)
DETOUR Fortville Pike →	DETOUR Fortville Pike →	END
DRMA 4 XM 4-8 XD 3-1 M 6-1 (R)	DRMA 5 XM 4-8 XD 3-1 M 5-1 (R)	DRMA 6 XM 4-6 XM 4-8 XD 3-1
DETOUR CR 300 N →	DETOUR CR 300 N →	END
DRMA 10 XM 4-8 XD 3-1 M 6-1 (R)	DRMA 11 XM 4-8 XD 3-1 M 5-1 (R)	DRMA 12 XM 4-6 XM 4-8 XD 3-1

ROAD CLOSED TO THRU TRAFFIC

DETOUR →

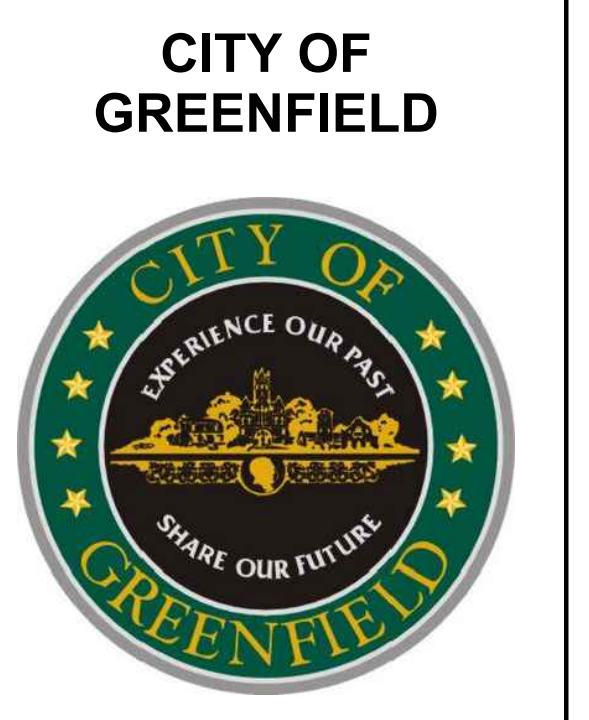
RCSA, Type 1
R11-4
XM 4-10 (L/R)
(48"x18")

DETOUR AHEAD
XW20-2
(48"x48")

ROAD CLOSED AHEAD
XW20-3
(48"x48")

FORTVILLE PIKE CLOSED AT 300 N LOCAL TRAFFIC ONLY
R11-3a Mod.
(60" x 30")

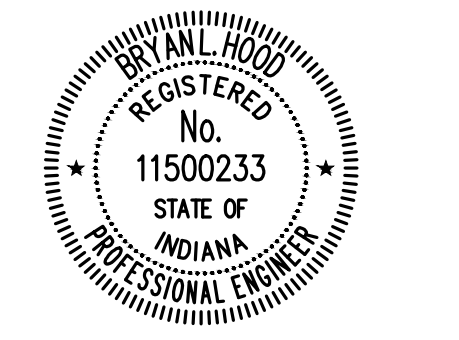
CR 300 N CLOSED AT FORTVILLE PIKE LOCAL TRAFFIC ONLY
R11-3a Mod.
(60" x 30")



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Greenfield, Indiana



Bryan L. Hood 5/15/2025
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ISSUANCE INDEX

DATE:	5/15/2025
PROJECT PHASE:	100% PLANS

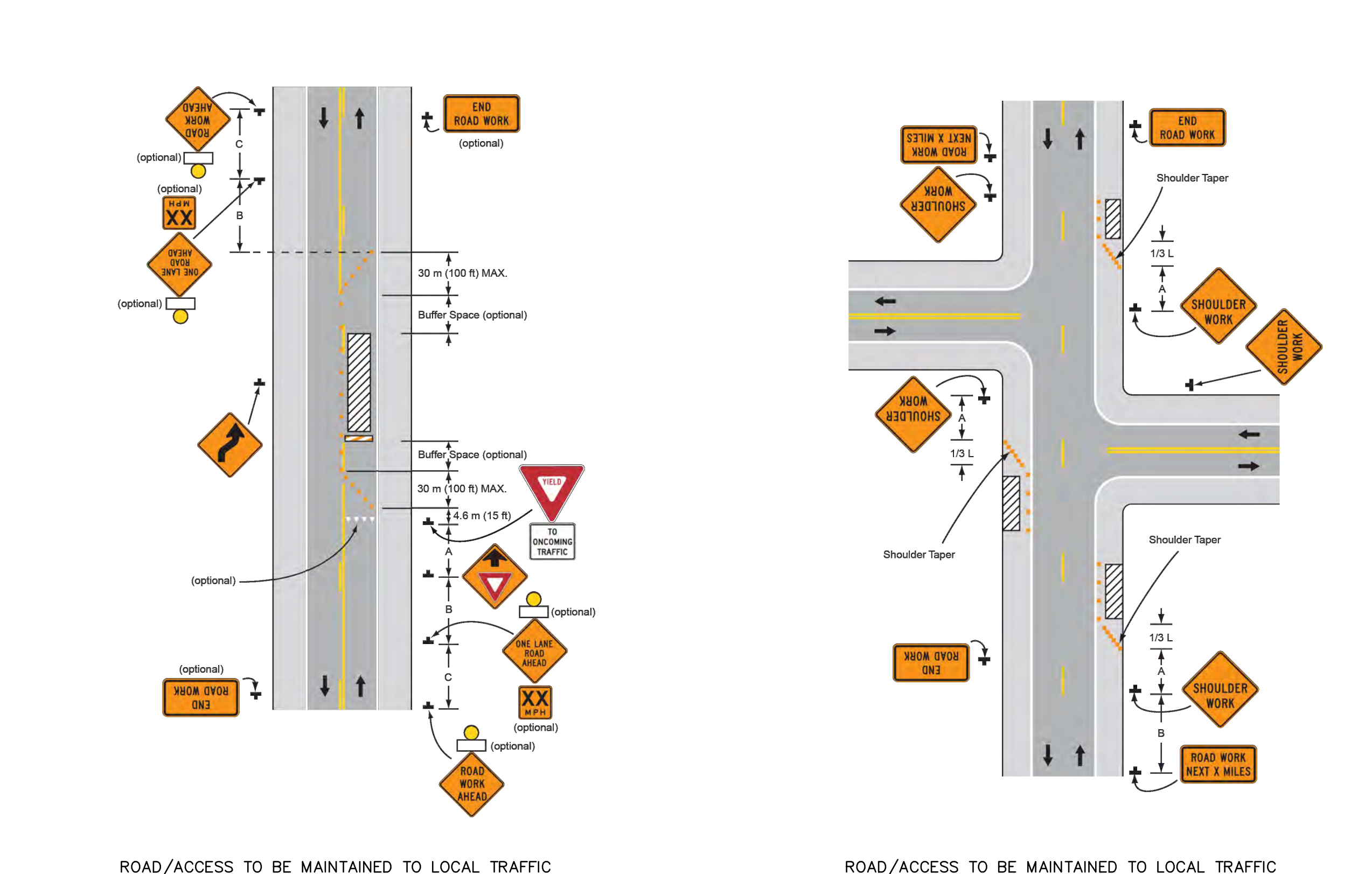
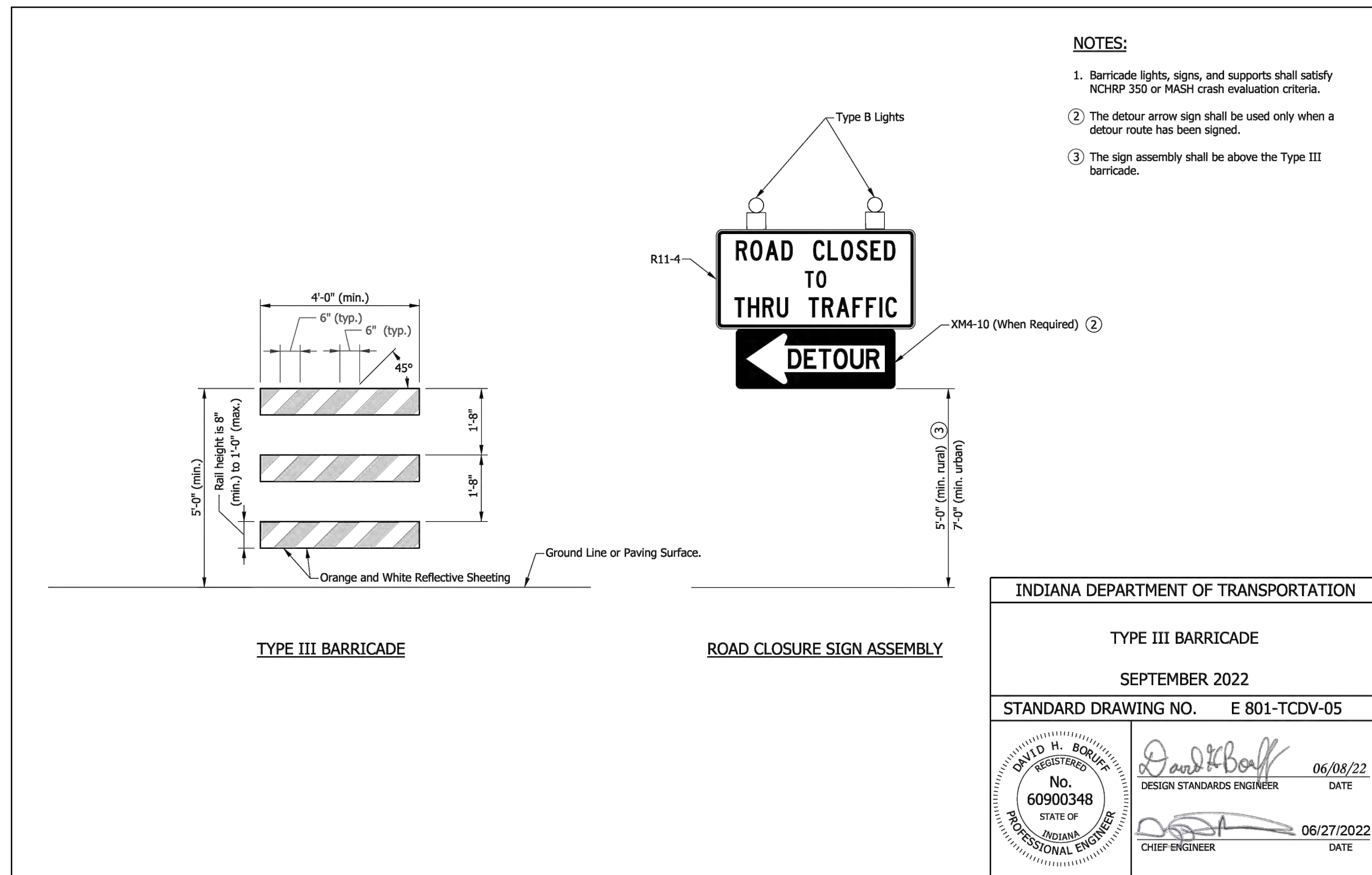
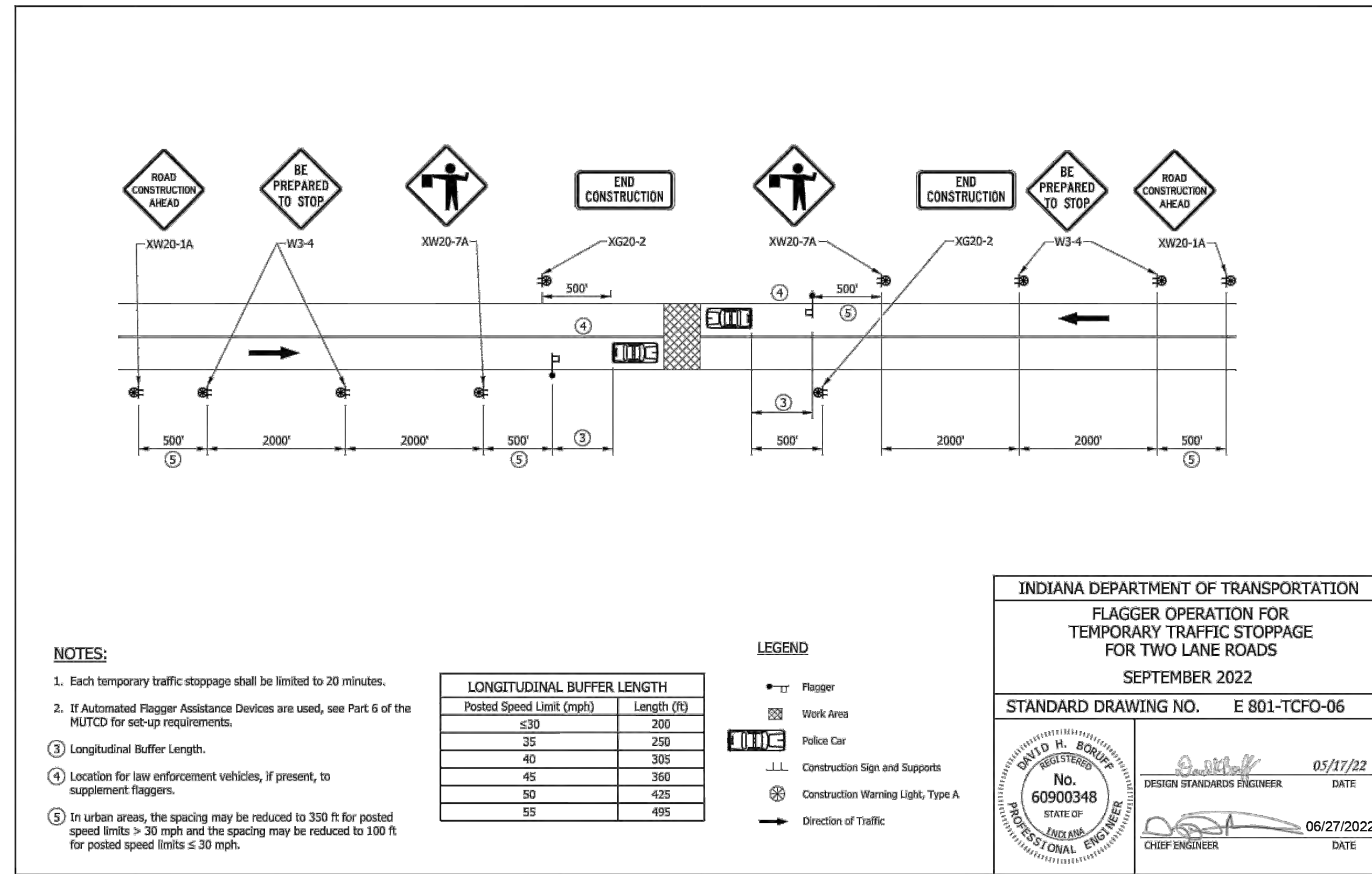
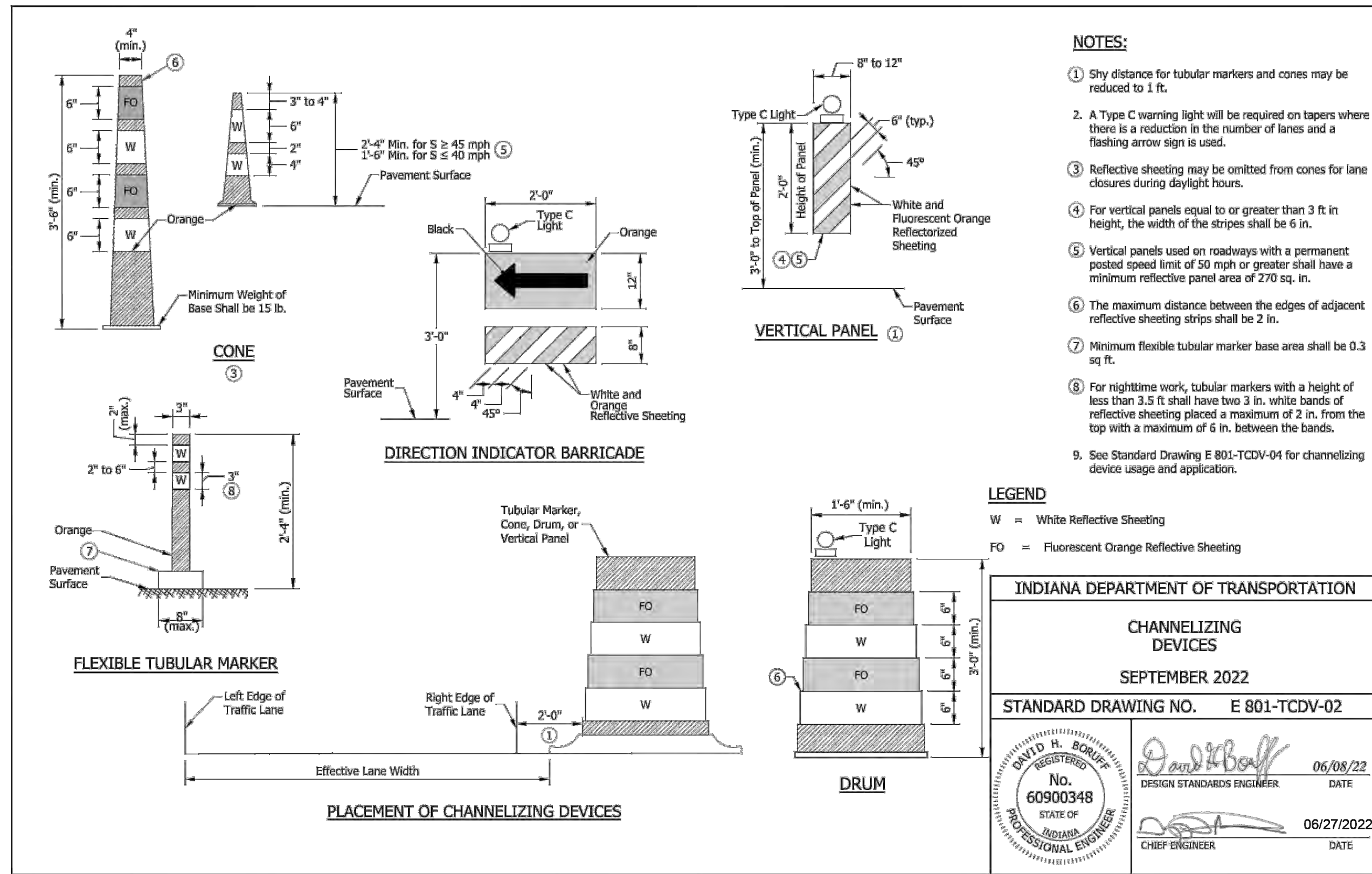
REVISION SCHEDULE

NO.	DESCRIPTION	DATE
1	THIS SHEET REPLACES PREVIOUSLY DATED SHEET: 5/15/2025	5/30/25

Project Number 2025.00749

TRAFFIC PLAN

PLOT DATE: 5/30/2025 9:48 AM EDITED BY: PFRAMINSKI DRAWING FILE: P:\2025\00749\0 - DRAWINGS\UTILITY - INFRASTRUCTURE\202500749.U1.TP.DWG



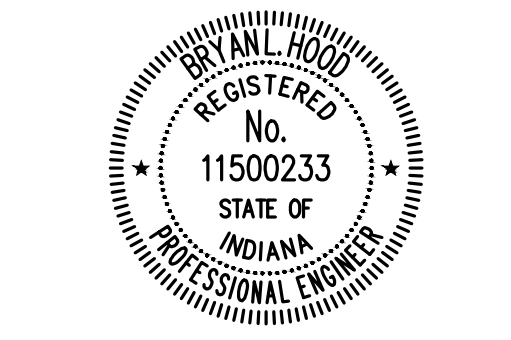
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ISSUANCE INDEX		
DATE:	5/15/2025	
PROJECT PHASE:	100% PLANS	

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
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Project Number 2025.00749

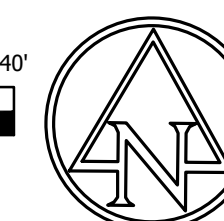
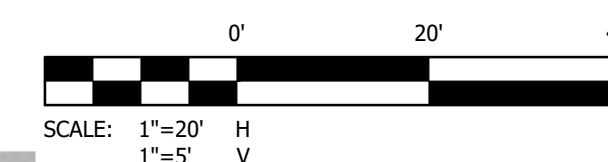
TRAFFIC PLAN

C-107

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 - DO NOT **DISTURB** PRAIRIE GRASS ALONG PARK ENTRANCE ROAD.
- MANHOLE NOTES:**
- CASTINGS ALONG SWALE SHALL BE INSTALLED TOWARDS TOP OF BANK.
 - SANITARY STRUCTURES S103, S104, AND S105 SHALL HAVE WATERPROOF MANHOLE FRAME WITH BOLTED LID AND GASKET.

THE CITY OF GREENFIELD

THE BOARD OF PARKS AND RECREATION OF THE CITY OF GREENFIELD, INDIANA



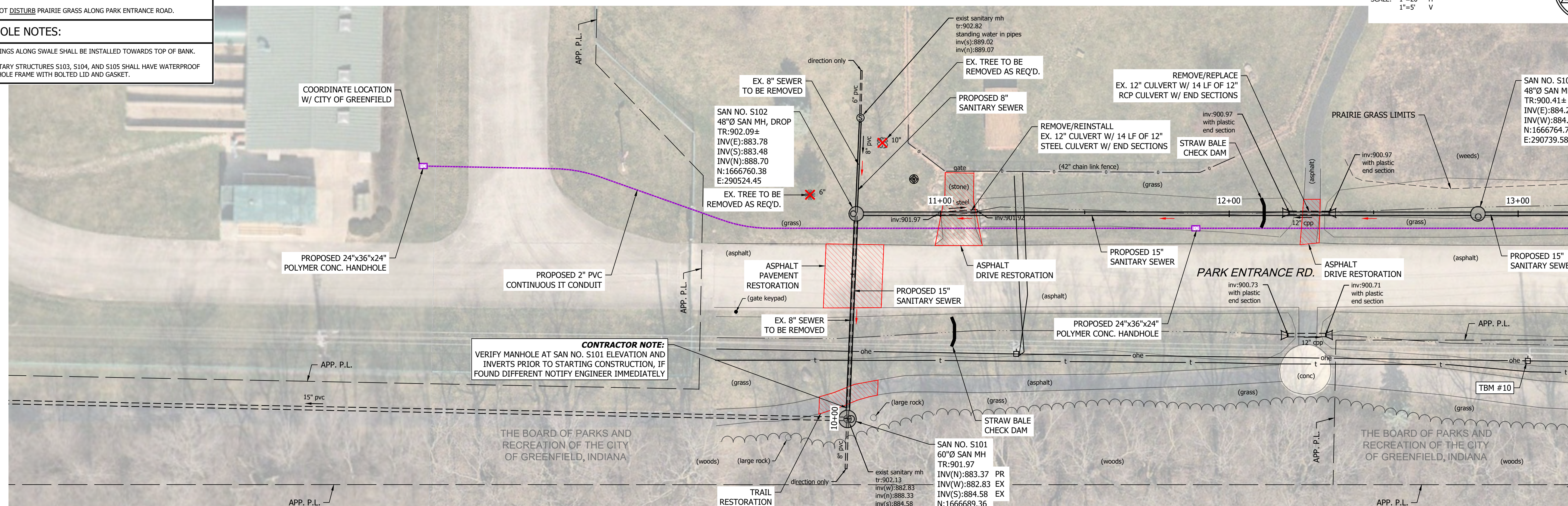
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Greenfield, Indiana

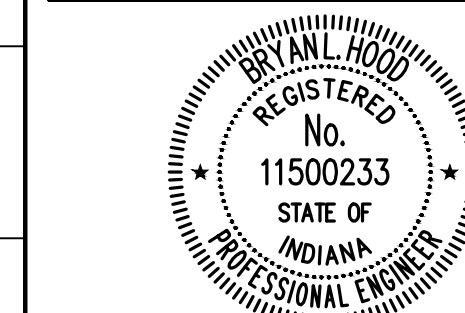
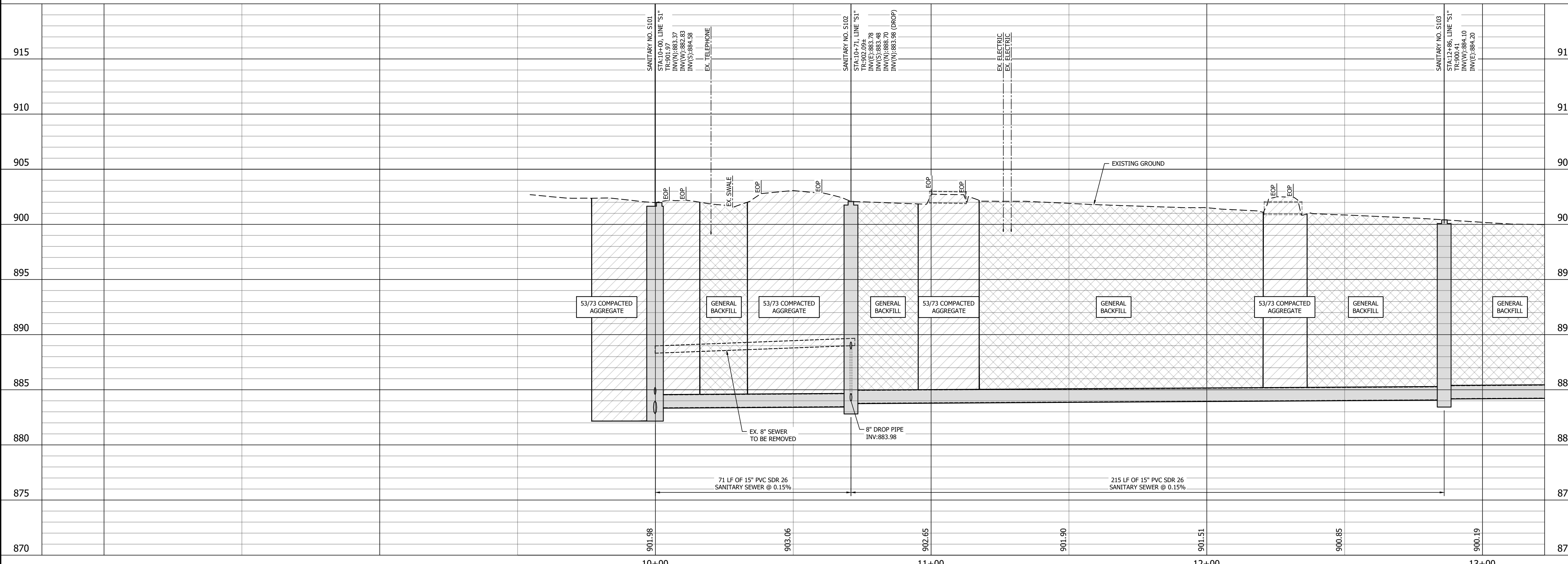


GERALD N. WEBB

GERALD N. WEBB

MANDATORY ALTERNATE BID NO. 2

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ISSUANCE INDEX	
DATE:	5/15/2025
PROJECT PHASE:	100% PLANS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1	THIS SHEET REPLACES PREVIOUSLY DATED SHEET: 5/15/2025	5/30/25

Project Number 2025.00749

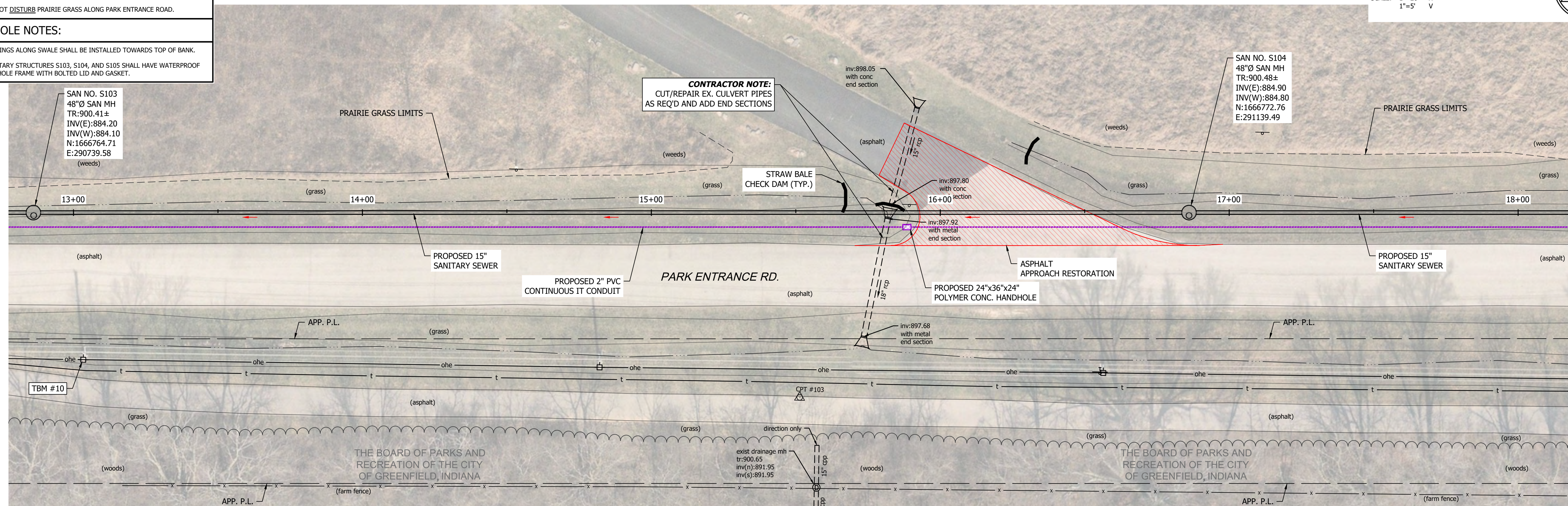
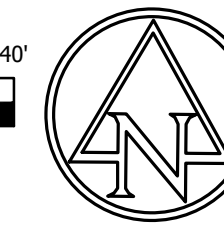
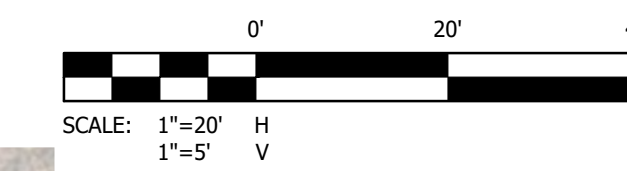
PLAN AND PROFILE SANITARY SEWER LINE "S1"

C-108

- GENERAL NOTES:**
- CONTRACTOR SHALL MAINTAIN (1) 10-FOOT LANE FOR MAINTENANCE VEHICLES AT ALL TIMES, UNLESS COORDINATE WITH PARKS DEPARTMENT PRIOR TO CLOSURE.
 - DO NOT DISTURB PRAIRIE GRASS ALONG PARK ENTRANCE ROAD.
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THE BOARD OF PARKS AND RECREATION OF THE CITY OF GREENFIELD, INDIANA

THE BOARD OF PARKS AND RECREATION OF THE CITY OF GREENFIELD, INDIANA

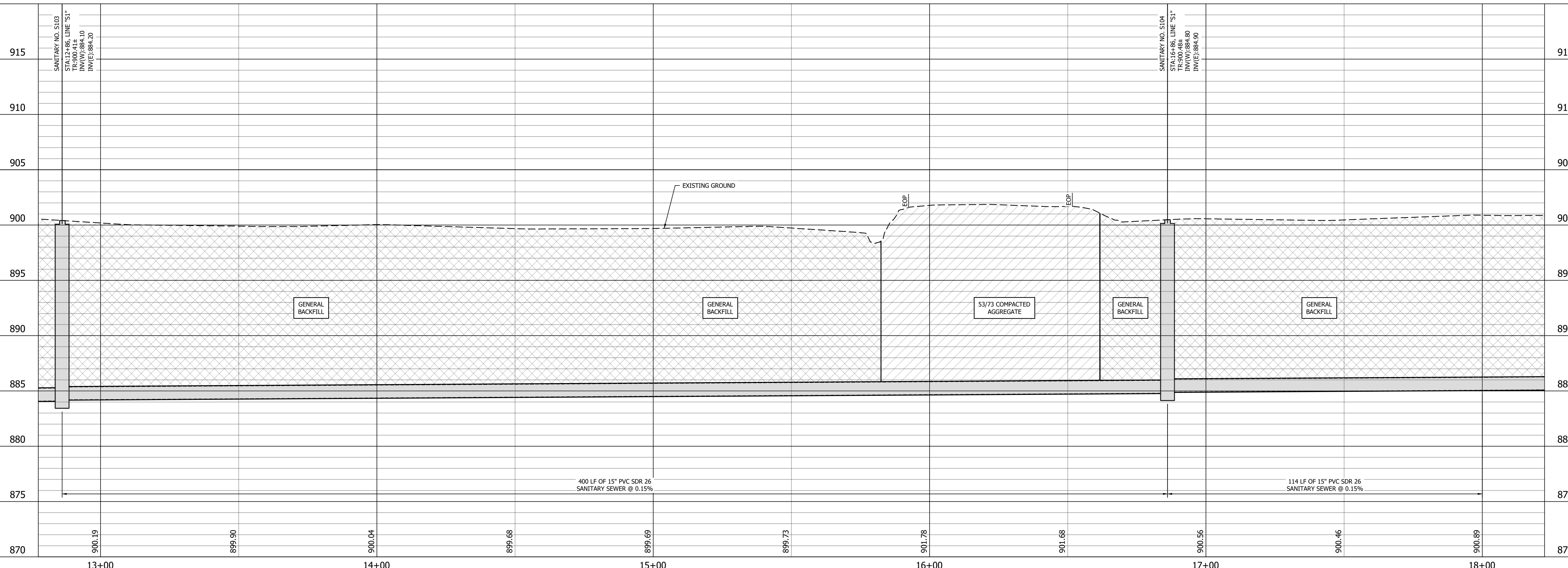


GERALD N. WEBB

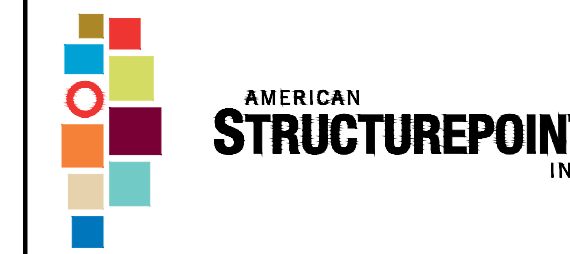
GERALD N. WEBB

MANDATORY ALTERNATE BID NO. 2

PLOT DATE: 5/30/2025 9:49 AM EDITED BY: PFRANINSKI DRAWING FILE: P:\2025\00749\0 DRAWINGS\UTILITY-INFRASTRUCTURE\202500749.U\PP.DWG



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**FRANKLIN STREET
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ISSUANCE INDEX	
DATE:	5/15/2025
PROJECT PHASE:	100% PLANS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1	THIS SHEET REPLACES PREVIOUSLY DATED SHEET: 5/15/2025	5/30/25

Project Number 2025.00749

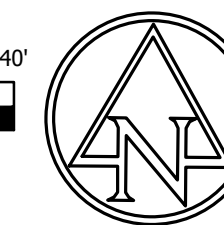
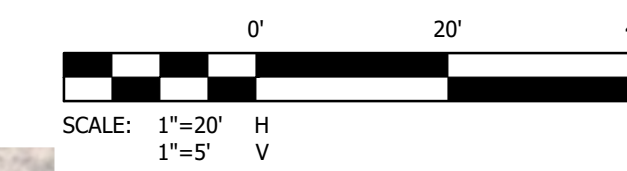
**PLAN AND PROFILE
SANITARY SEWER
LINE "S1"**

C-109

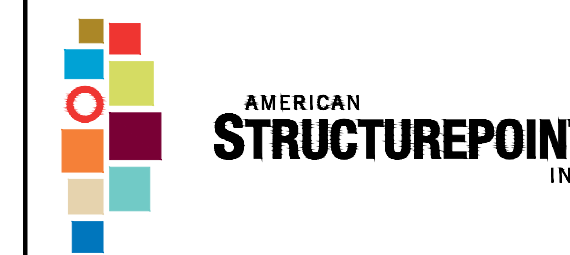
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THE BOARD OF PARKS AND RECREATION OF THE CITY OF GREENFIELD, INDIANA

THE BOARD OF PARKS AND RECREATION OF THE CITY OF GREENFIELD, INDIANA



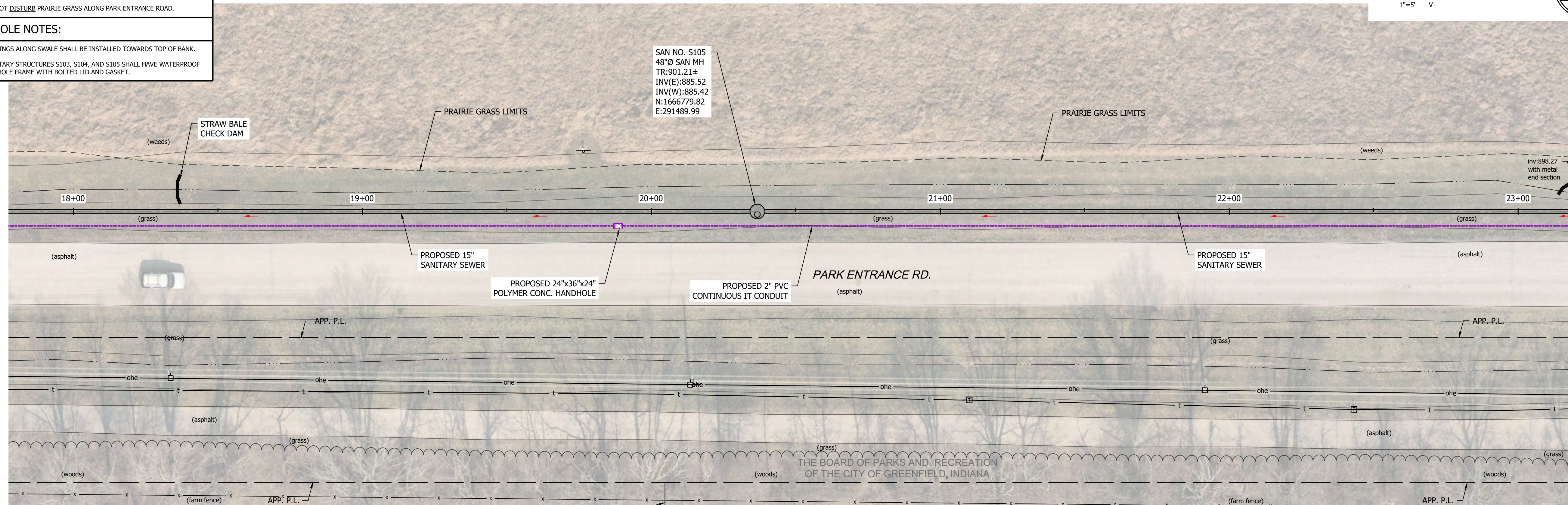
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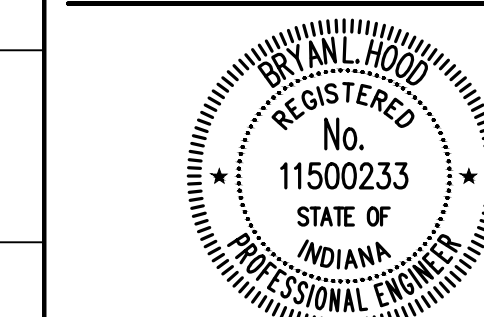
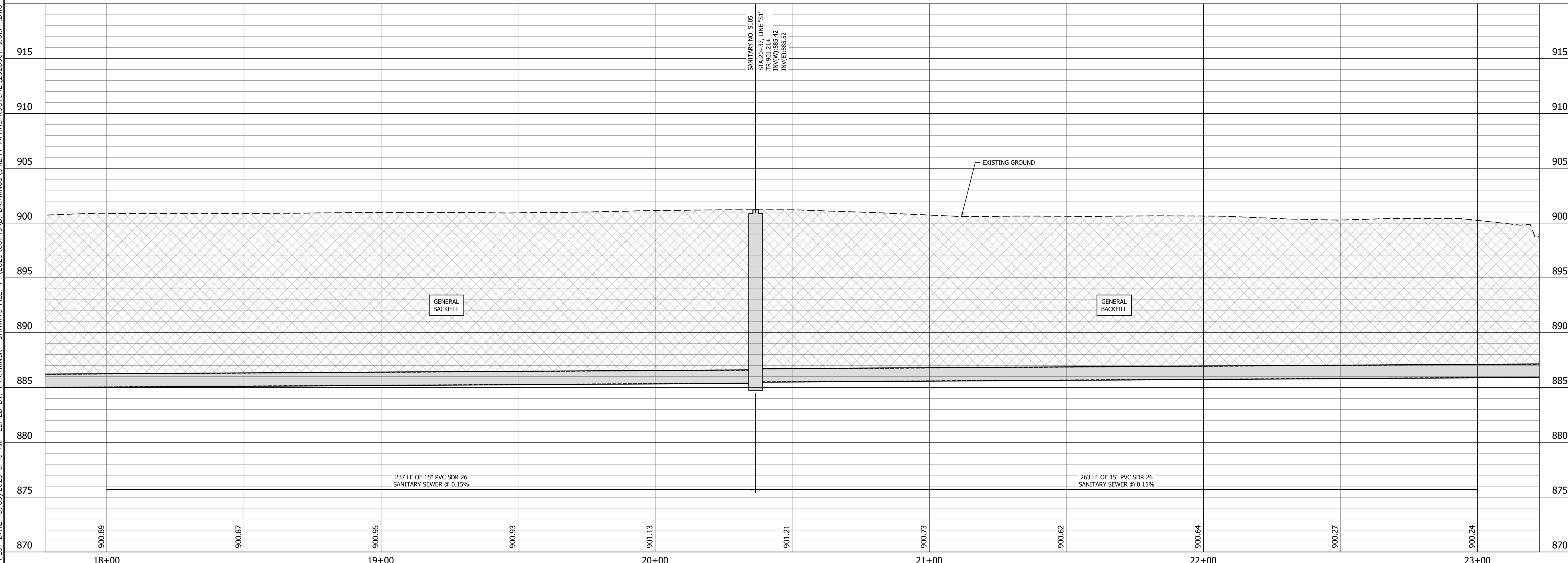
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ISSUANCE INDEX	
DATE:	5/15/2025
PROJECT PHASE:	100% PLANS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
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**PLAN AND PROFILE
SANITARY SEWER
LINE "S1"**

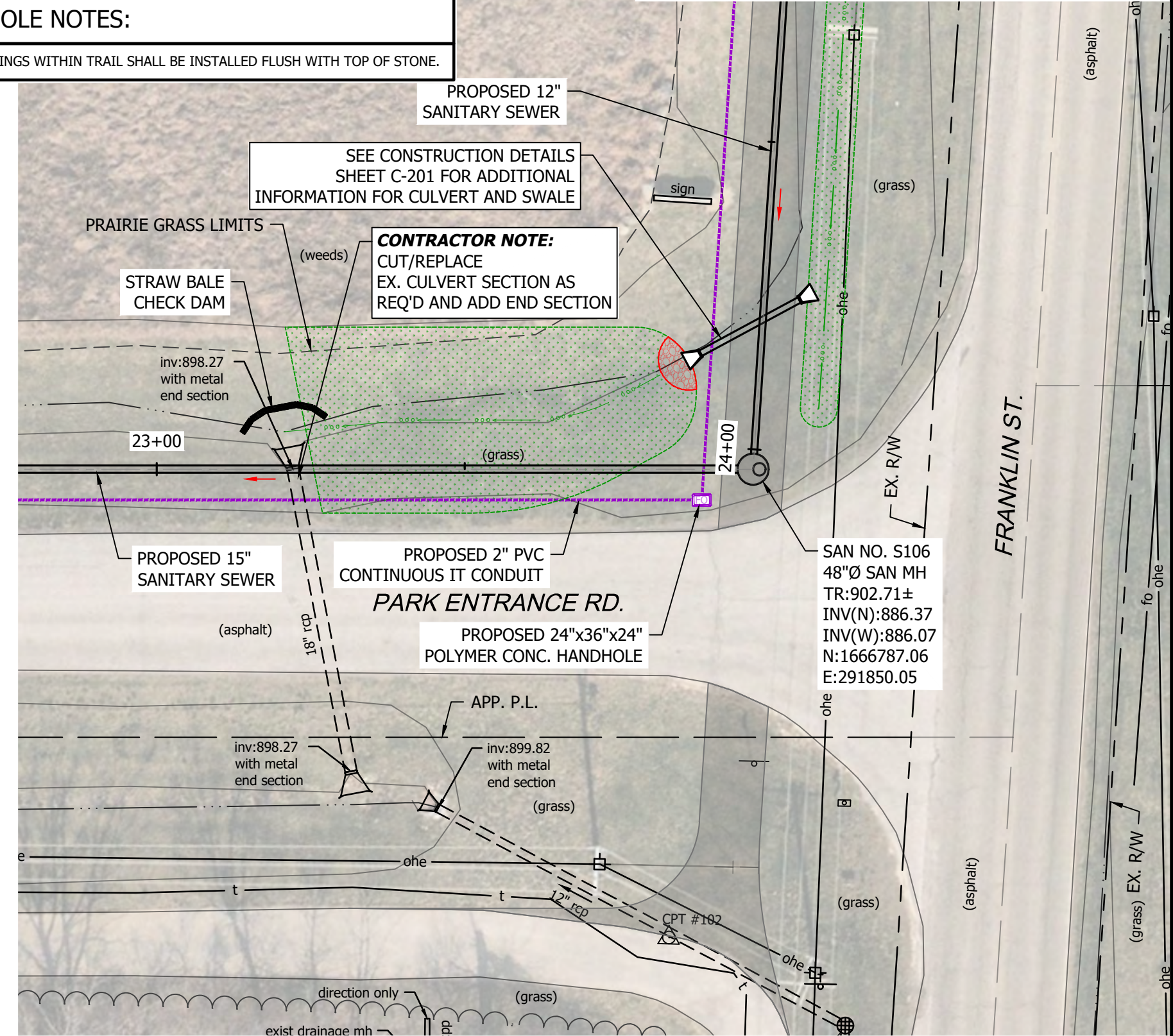
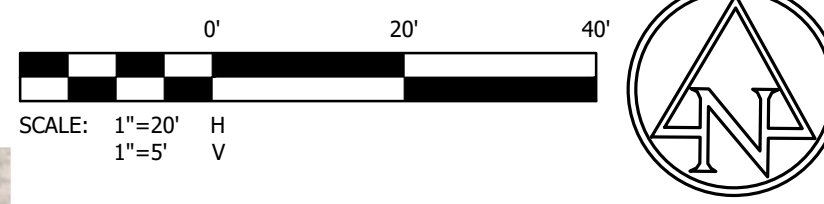
C-110

GENERAL NOTES:

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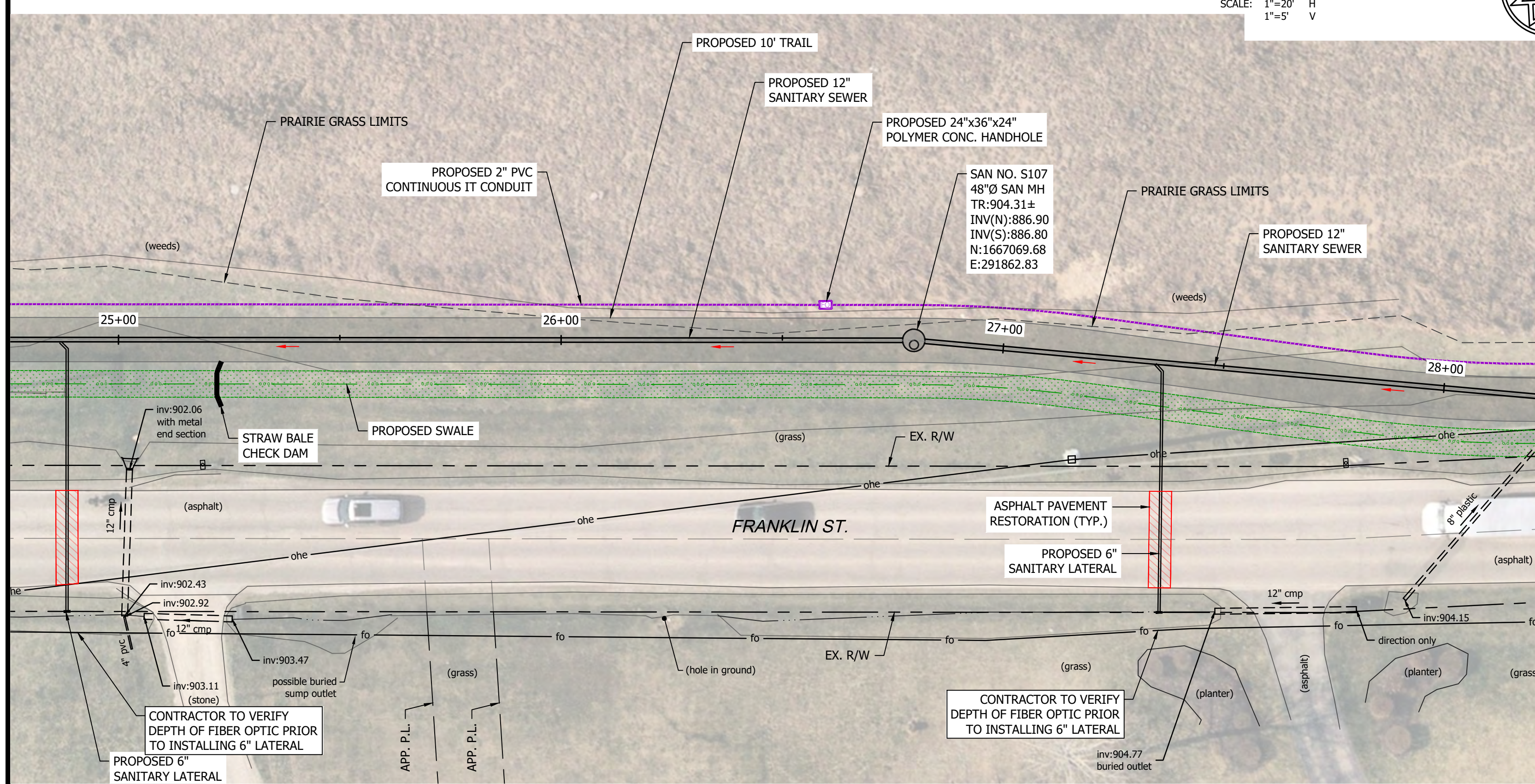
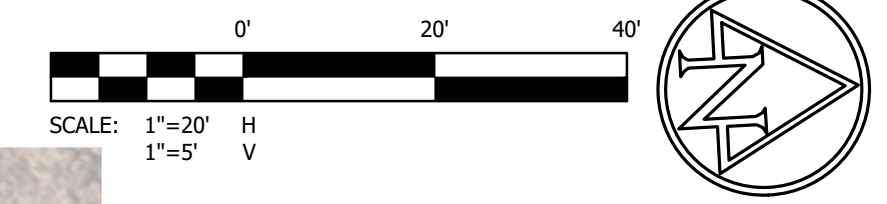
MANHOLE NOTES:

- CASTINGS WITHIN TRAIL SHALL BE INSTALLED FLUSH WITH TOP OF STONE.



GERALD N. WEBB

THE BOARD OF PARKS AND RECREATION OF THE CITY OF GREENFIELD, INDIANA

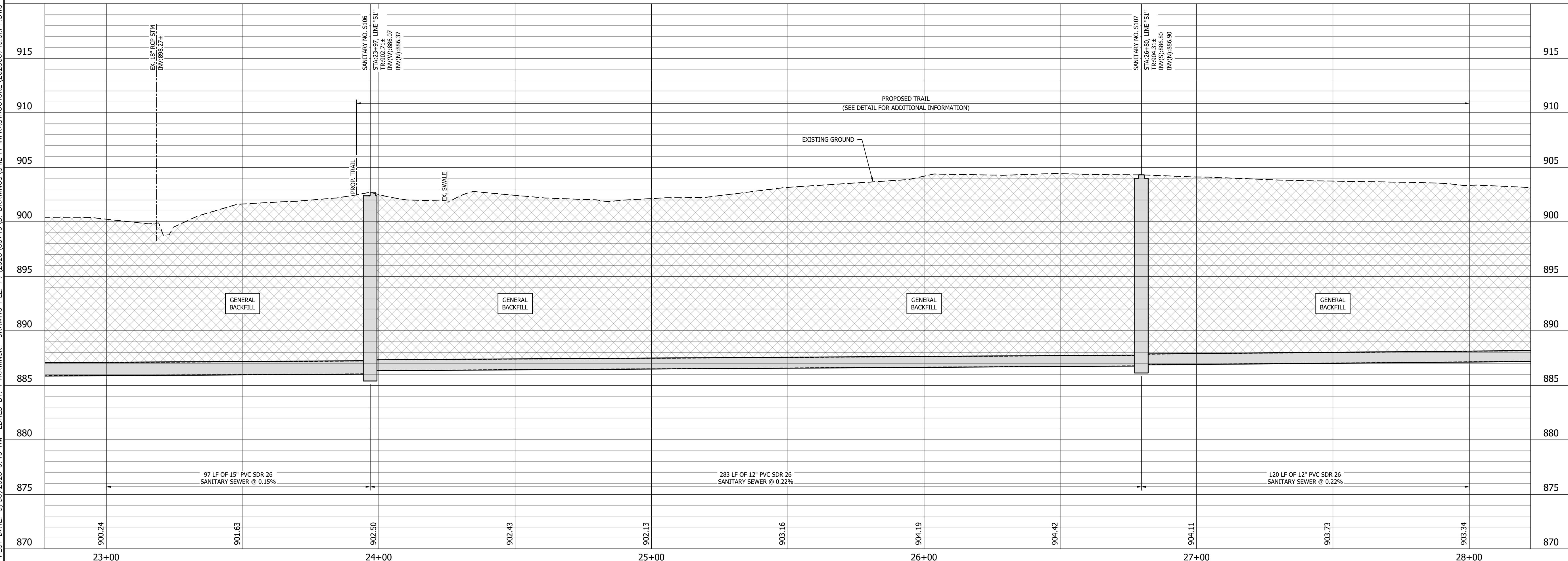


DALE A & TABELHA R HANCOCK

CAMERON & CHELSEY NEISLER

MANDATORY ALTERNATE BID NO. 2

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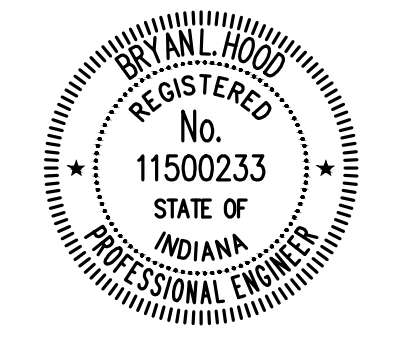
CITY OF GREENFIELD



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FRANKLIN STREET SANITARY SEWER EXT.

Greenfield, Indiana



Bryan L. Hancock 5/15/2025
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ISSUANCE INDEX	
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Project Number 2025.00749

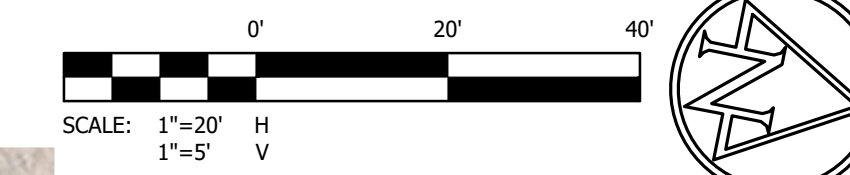
PLAN AND PROFILE SANITARY SEWER LINE "S1"

C-111

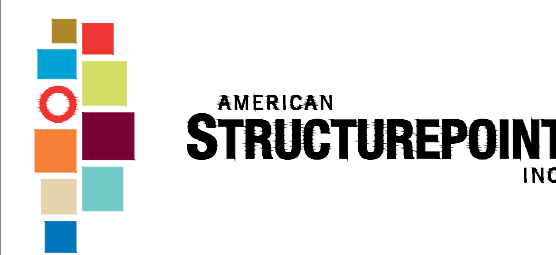
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THE BOARD OF PARKS AND RECREATION OF THE CITY OF GREENFIELD, INDIANA

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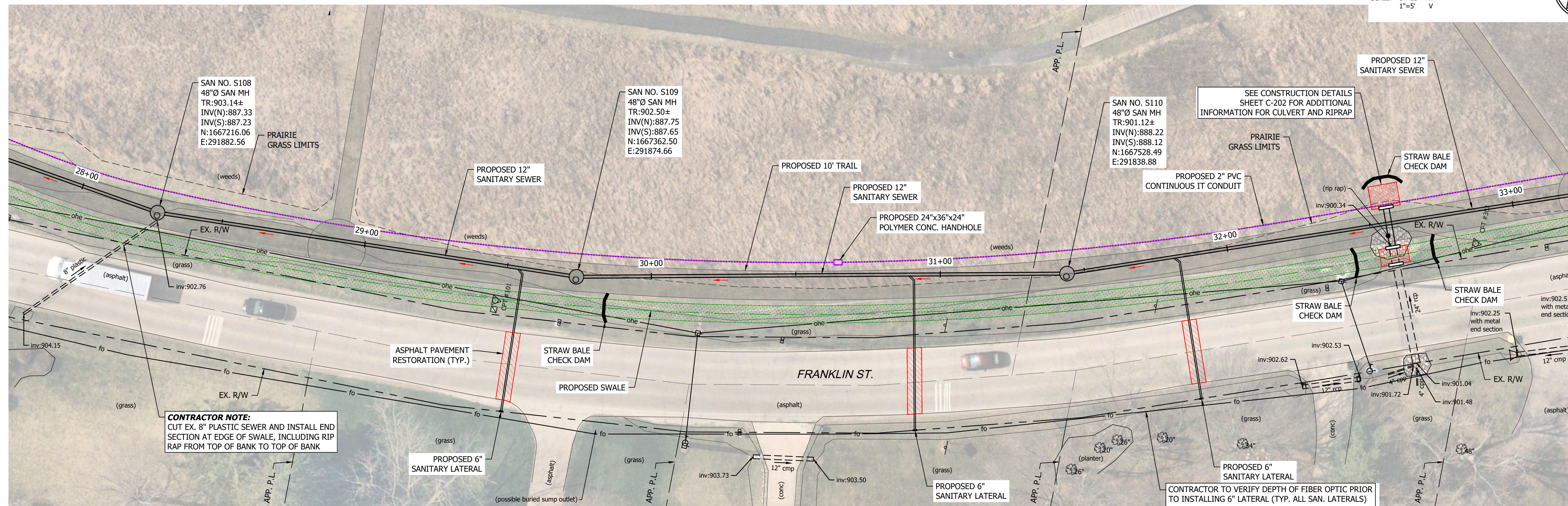
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FRANKLIN STREET SANITARY SEWER EXT.

Greenfield, Indiana



CONTRACTOR NOTE:
 CUT EX. 8" PLASTIC SEWER AND INSTALL END SECTION AT EDGE OF SWALE, INCLUDING RIP RAP FROM TOP OF BANK TO TOP OF BANK

CONTRACTOR TO VERIFY DEPTH OF FIBER OPTIC PRIOR TO INSTALLING 6" LATERAL (TYP. ALL SAN. LATERALS)

MANDATORY ALTERNATE BID NO. 2

CAMERON & CHELSEY NEISLER

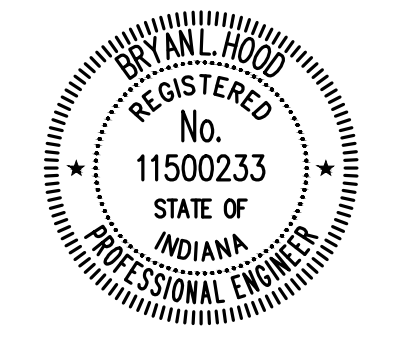
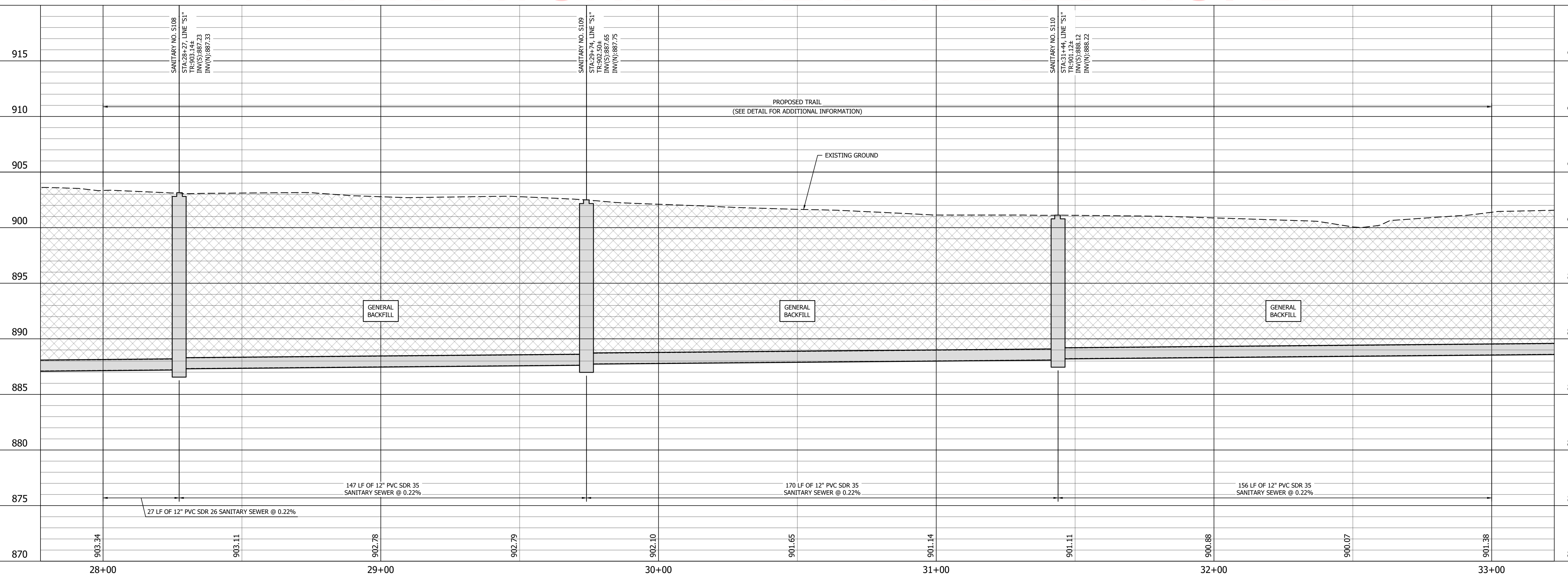
RANDY RATLIFF

DOUGLAS BEATY

PATRICIA A. FARRELL

JEREMY & FAITH ANN VISE

PLOT DATE: 5/30/2025 9:49 AM EDITED BY: PFRANKINSKI DRAWING FILE: P:\2025\00749\0 DRAWINGS\UTILITY-INFRASTRUCTURE\202500749.U\PP.DWG



Bryan L. Hood 5/15/2025
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ISSUANCE INDEX	
DATE:	5/15/2025
PROJECT PHASE:	100% PLANS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1	THIS SHEET REPLACES PREVIOUSLY DATED SHEET: 5/15/2025	5/30/25

Project Number 2025.00749

PLAN AND PROFILE SANITARY SEWER LINE "S1"

C-112

GENERAL NOTES:

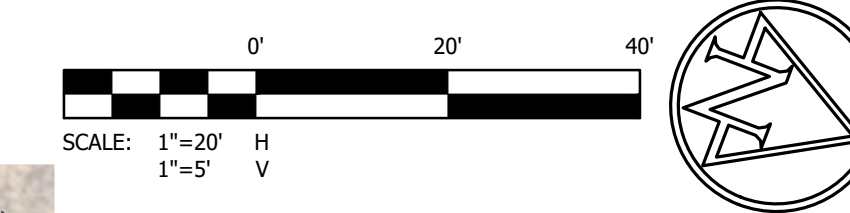
1. ROUNDABOUT, STORM SEWER, ELECTRICAL, LIGHTING DESIGN, AND EROSION CONTROL MEASURES BY OTHERS AND PART OF PROJECT 2205FFE P.E.
2. THE ROAD CLOSURE AT THE INTERSECTION OF C.R. 300 N. AND FRANKLIN ST., AS PART OF THE ROUNDABOUT CONSTRUCTION, WILL TAKE PLACE IN JUNE 2025 THRU OCTOBER 2025.
3. FINAL SANITARY SEWER CASTING ELEVATIONS SUBJECT TO CONSTRUCTION ACTIVITIES AND FINAL GRADES OF ROUNDABOUT PROJECT 2205FFE P.E.
4. CONTRACTOR TO COORDINATE WITH NINESTAR FOR POLE SUPPORT.

MANHOLE NOTES:

1. CASTINGS WITHIN TRAIL SHALL BE INSTALLED FLUSH WITH TOP OF STONE.

THE BOARD OF PARKS AND RECREATION OF THE CITY OF GREENFIELD, INDIANA

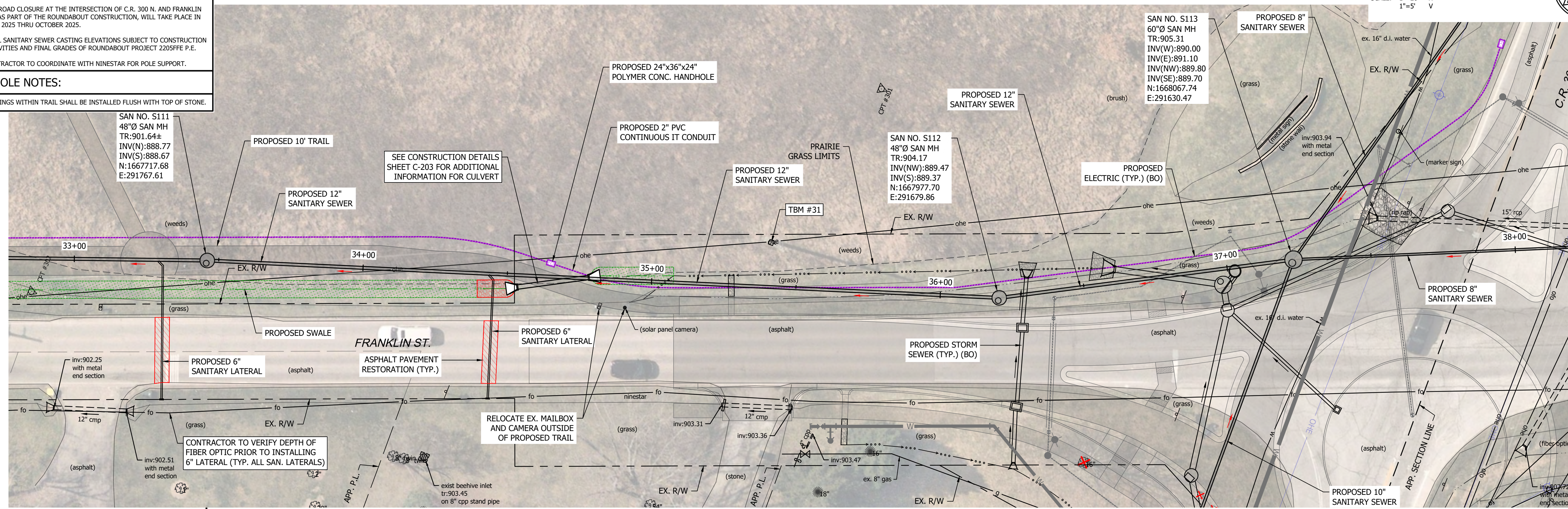
THE BOARD OF PARKS AND RECREATION OF THE CITY OF GREENFIELD, INDIANA



CITY OF GREENFIELD



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MANDATORY ALTERNATE BID NO. 2



JOYCE HARRIS

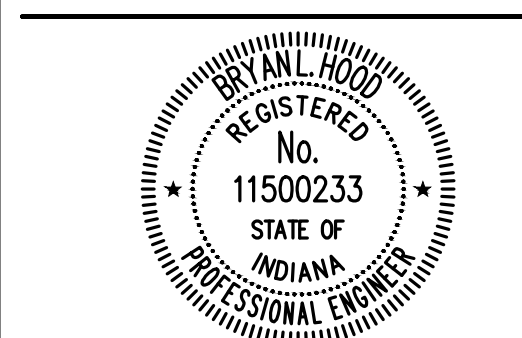
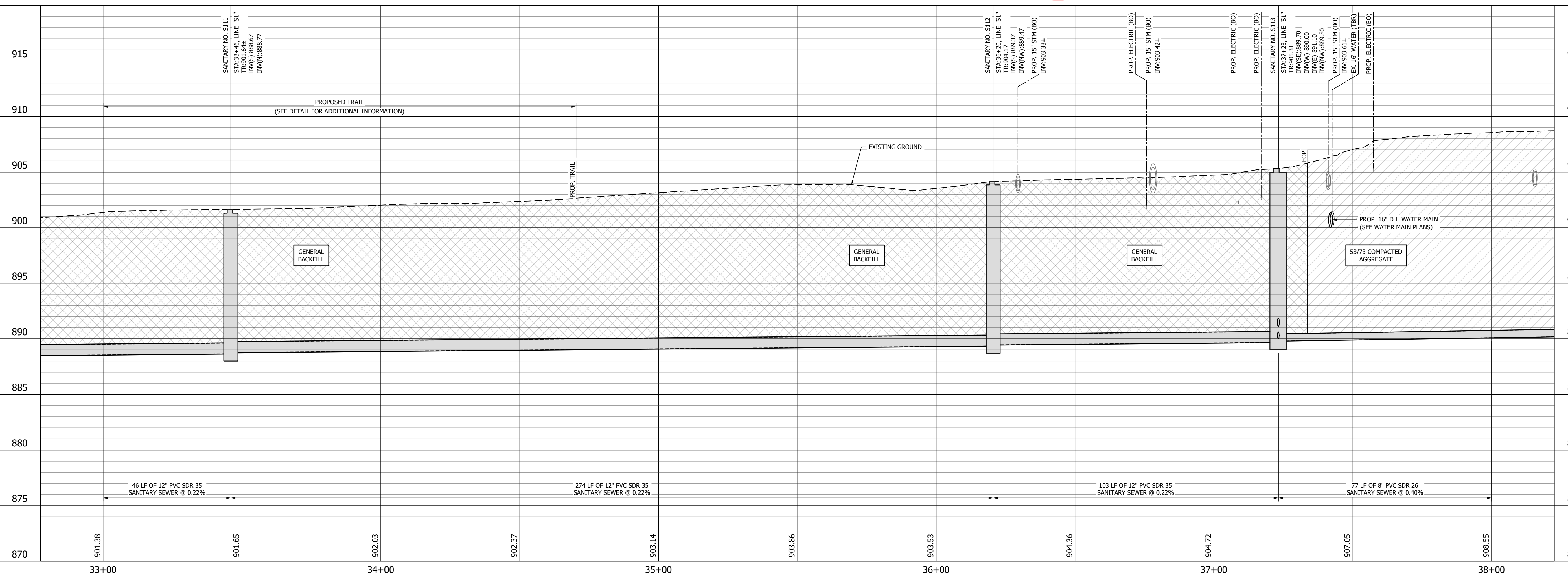
DAVID RAYMOND, ET UX

BASE BID

FRANKLIN STREET SANITARY SEWER EXT.

Greenfield, Indiana

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ISSUANCE INDEX	
DATE:	5/15/2025
PROJECT PHASE:	100% PLANS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
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Project Number 2025.00749

PLAN AND PROFILE SANITARY SEWER LINE "S1"

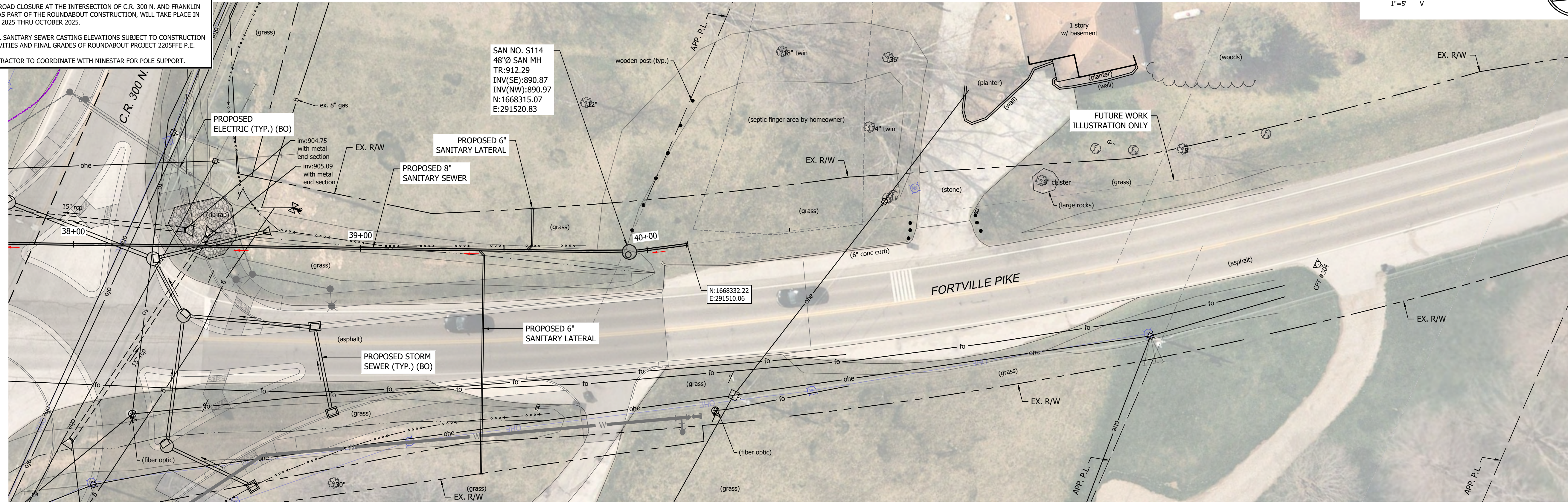
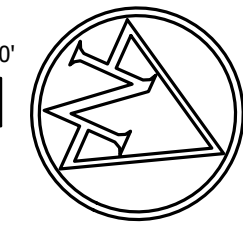
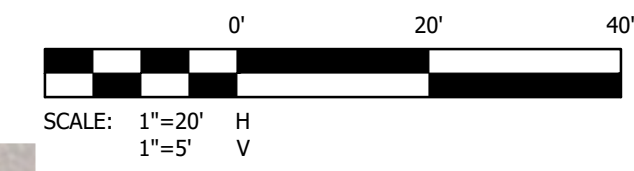
C-113

- GENERAL NOTES:**
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BOARD OF TRUSTEES
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METHODIST CHURCH, INC.

RAYMOND D. GODFREY
& BRENDA L. CHEYNEY

RAYMOND D. GODFREY
& BRENDA L. CHEYNEY



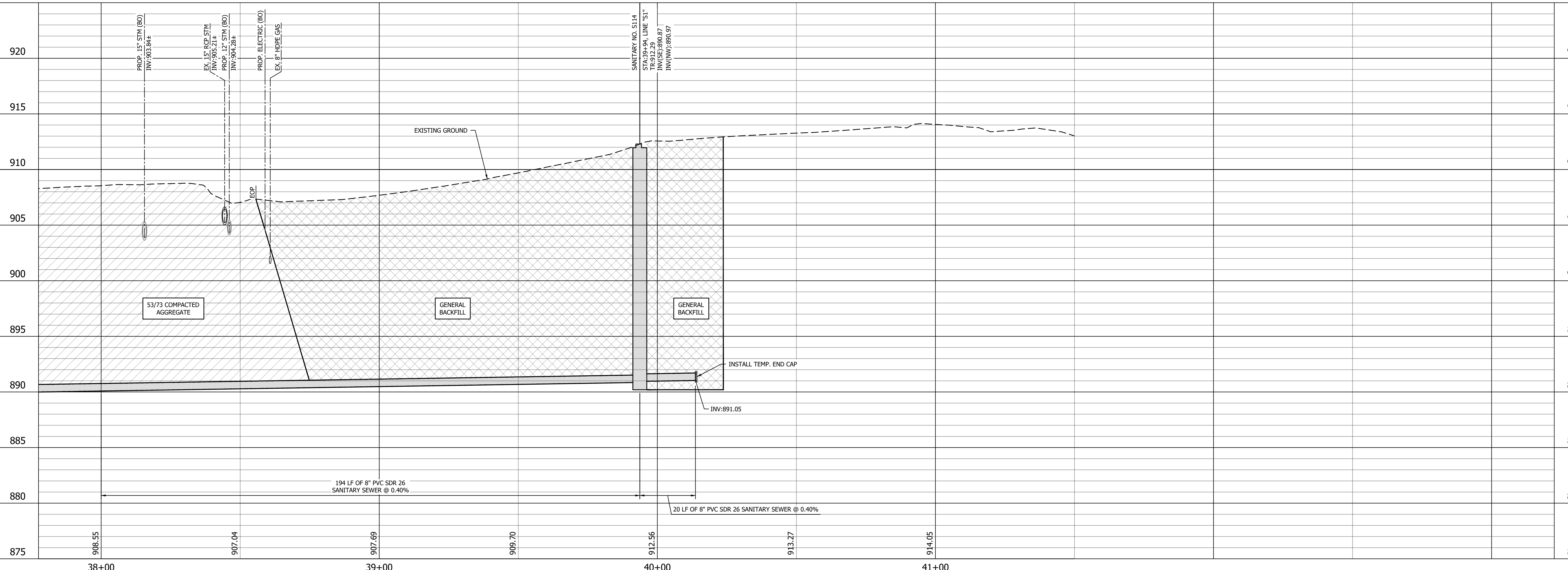
BRIAN K.
PRATT, ET UX

BASE BID

BRIAN K.
PRATT, ET UX

STEVE
EMMONS, ET UX

PLOT DATE: 5/30/2025 9:49 AM EDITED BY: PFRANKINSKI DRAWING FILE: P:\2025\00749\0_DRAWINGS\UTILITY_INFRASTRUCTURE\202500749.U\PP.DWG



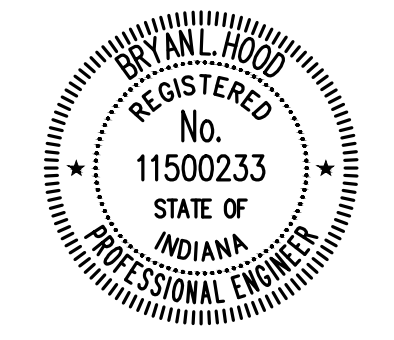
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**FRANKLIN STREET
SANITARY SEWER EXT.**

Greenfield, Indiana



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DATE:	5/15/2025
PROJECT PHASE:	100% PLANS

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Project Number 2025.00749

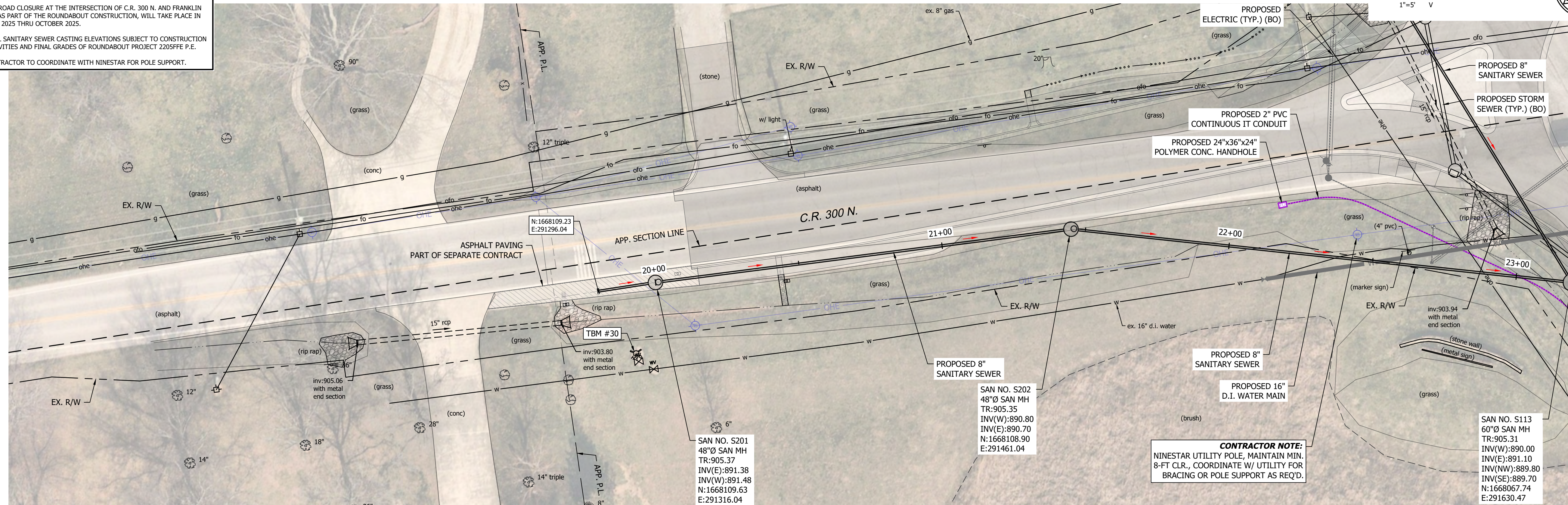
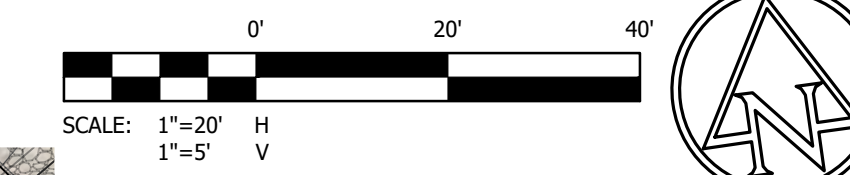
**PLAN AND PROFILE
SANITARY SEWER
LINE "S1"**

C-114

- GENERAL NOTES:**
1. ROUNDABOUT, STORM SEWER, ELECTRICAL, LIGHTING DESIGN, AND EROSION CONTROL MEASURES BY OTHERS AND PART OF PROJECT 2205FFE P.E.
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JEFFREY &
ROBIN SPILLE

BOARD OF TRUSTEES
OF THE CALVARY BIBLE
METHODIST CHURCH, INC.

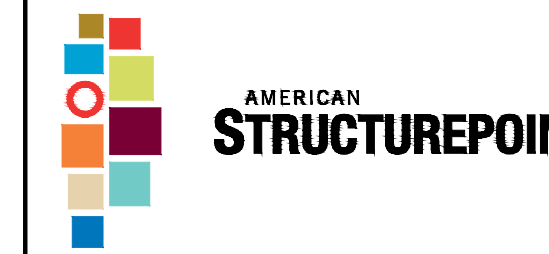


EDGAR E. JR.
MOORE, ET UX

THE BOARD OF PARKS AND
RECREATION OF THE CITY
OF GREENFIELD, INDIANA

THE BOARD OF PARKS AND
RECREATION OF THE CITY
OF GREENFIELD, INDIANA

**CITY OF
GREENFIELD**

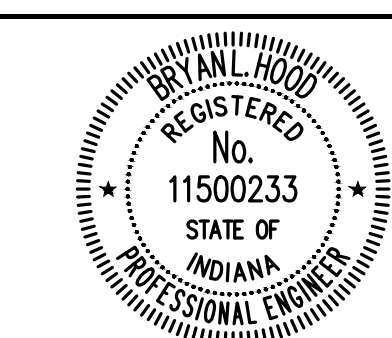
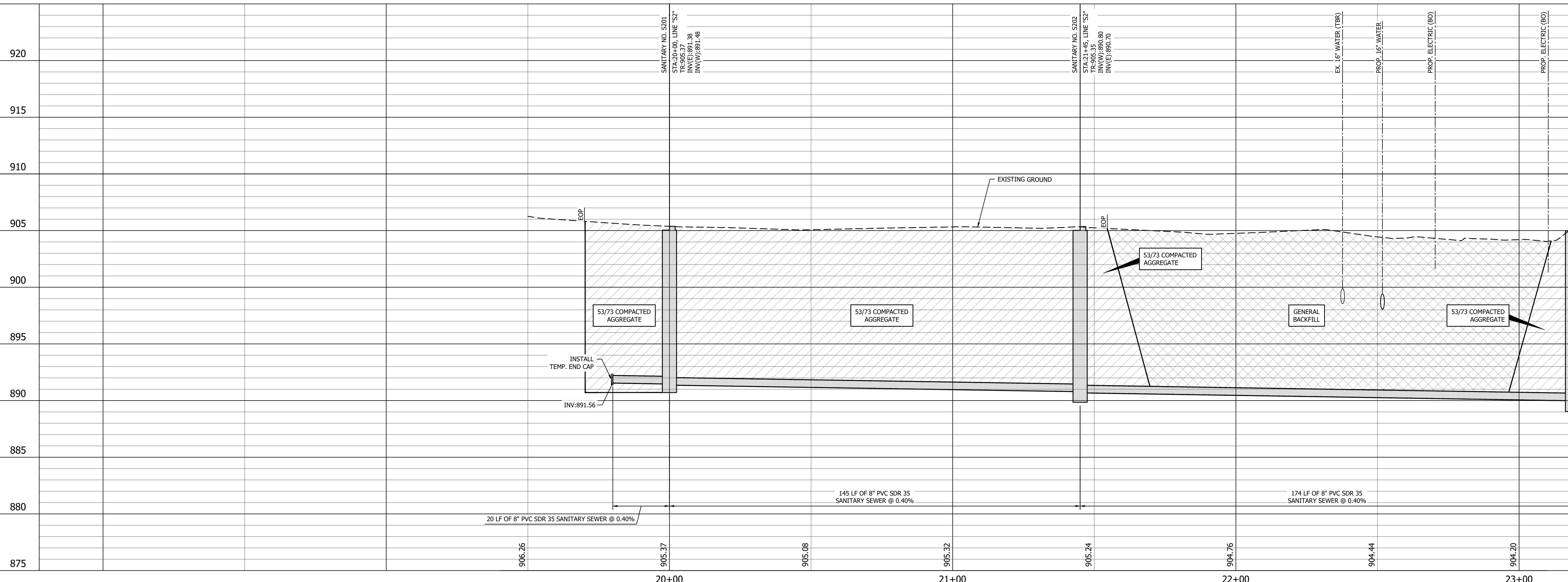


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Greenfield, Indiana

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Bryan L. Hood 5/15/2025
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ISSUANCE INDEX	
DATE:	5/15/2025
PROJECT PHASE:	100% PLANS

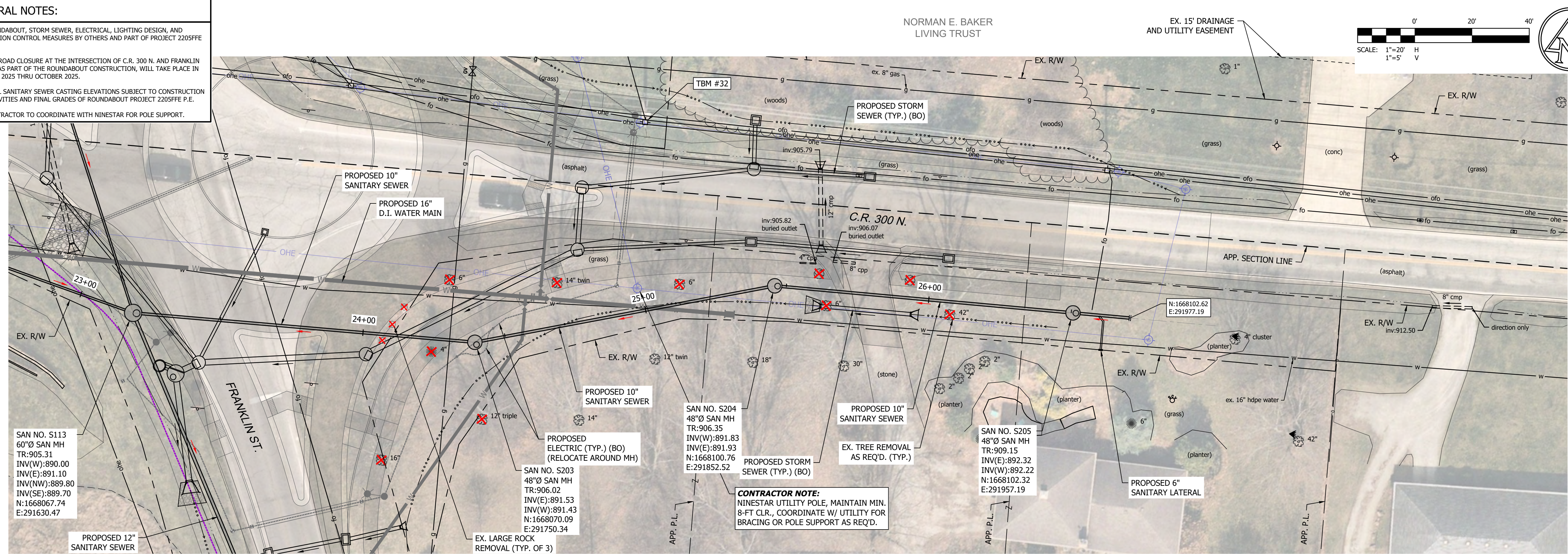
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NO.	DESCRIPTION	DATE
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Project Number 2025.00749

**PLAN AND PROFILE
SANITARY SEWER
LINE "S2"**

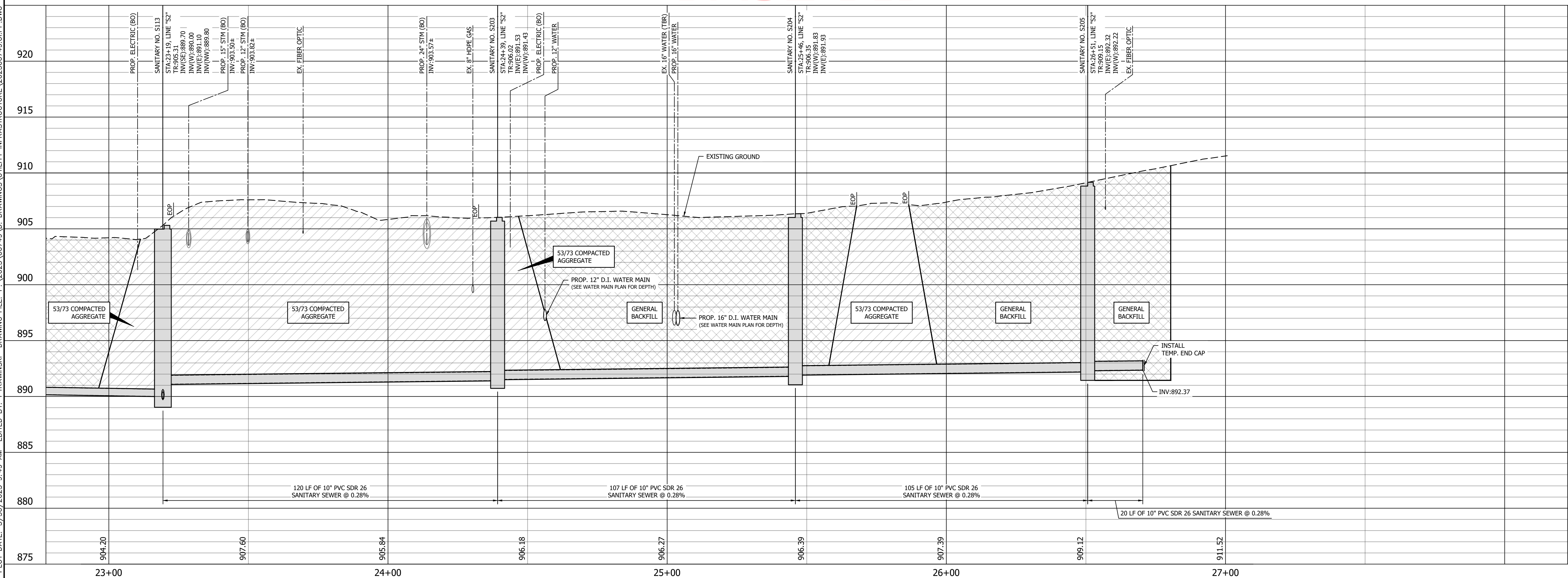
C-115

- GENERAL NOTES:**
1. ROUNDABOUT, STORM SEWER, ELECTRICAL, LIGHTING DESIGN, AND EROSION CONTROL MEASURES BY OTHERS AND PART OF PROJECT 2205FFE P.E.
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THE BOARD OF PARKS AND RECREATION OF THE CITY OF GREENFIELD, INDIANA
 DAVID RAYMOND, ET UX
 DAVID RAYMOND, ET UX
 DAVID RAYMOND, ET UX
 JEFFREY ANDERSON & MELINDA SMITH

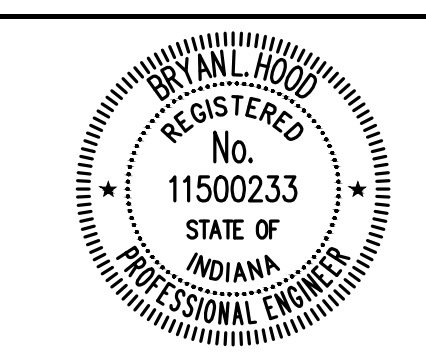
BASE BID



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FRANKLIN STREET SANITARY SEWER EXT.

Greenfield, Indiana



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ISSUANCE INDEX	
DATE:	5/15/2025
PROJECT PHASE:	100% PLANS

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NO.	DESCRIPTION	DATE
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Project Number 2025.00749

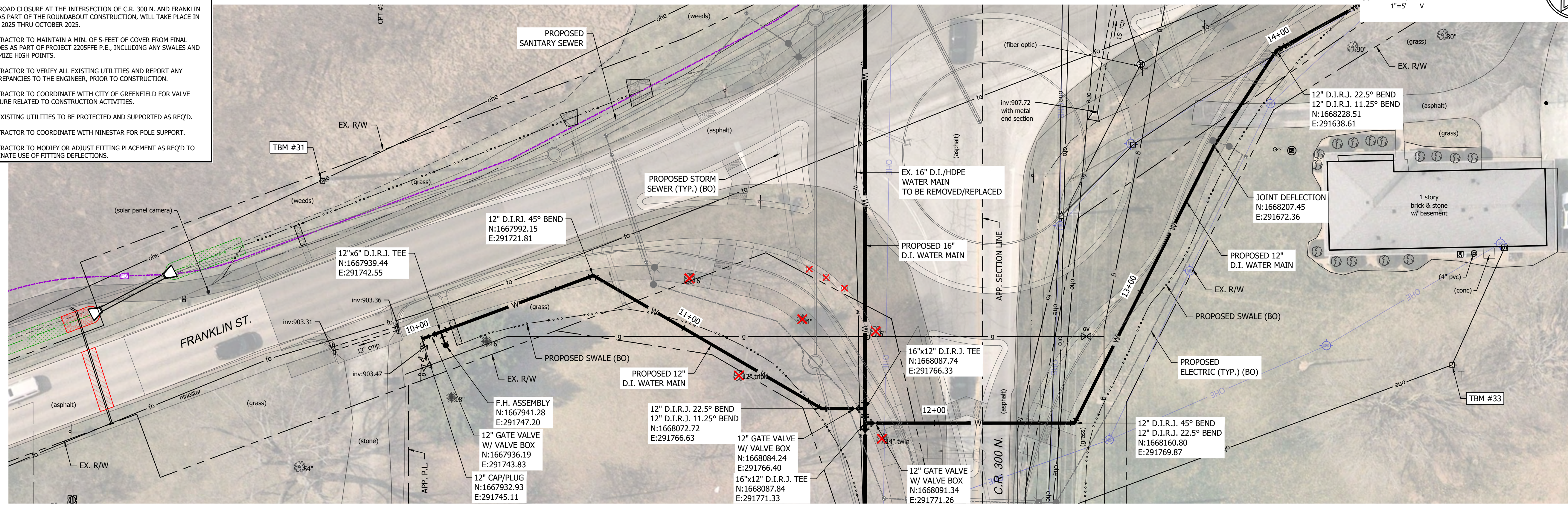
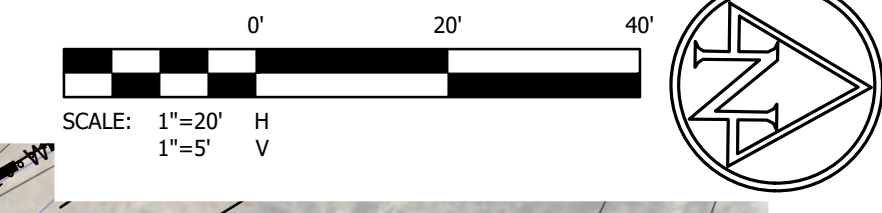
PLAN AND PROFILE SANITARY SEWER LINE "S2"

C-116

PLOT DATE: 5/30/2025 9:49 AM EDITED BY: PFRANKSKI DRAWING FILE: P:\2025\00749\0 DRAWINGS\UTILITY_INFRASTRUCTURE\202500749.U\PP.DWG

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THE BOARD OF PARKS AND RECREATION OF THE CITY OF GREENFIELD, INDIANA



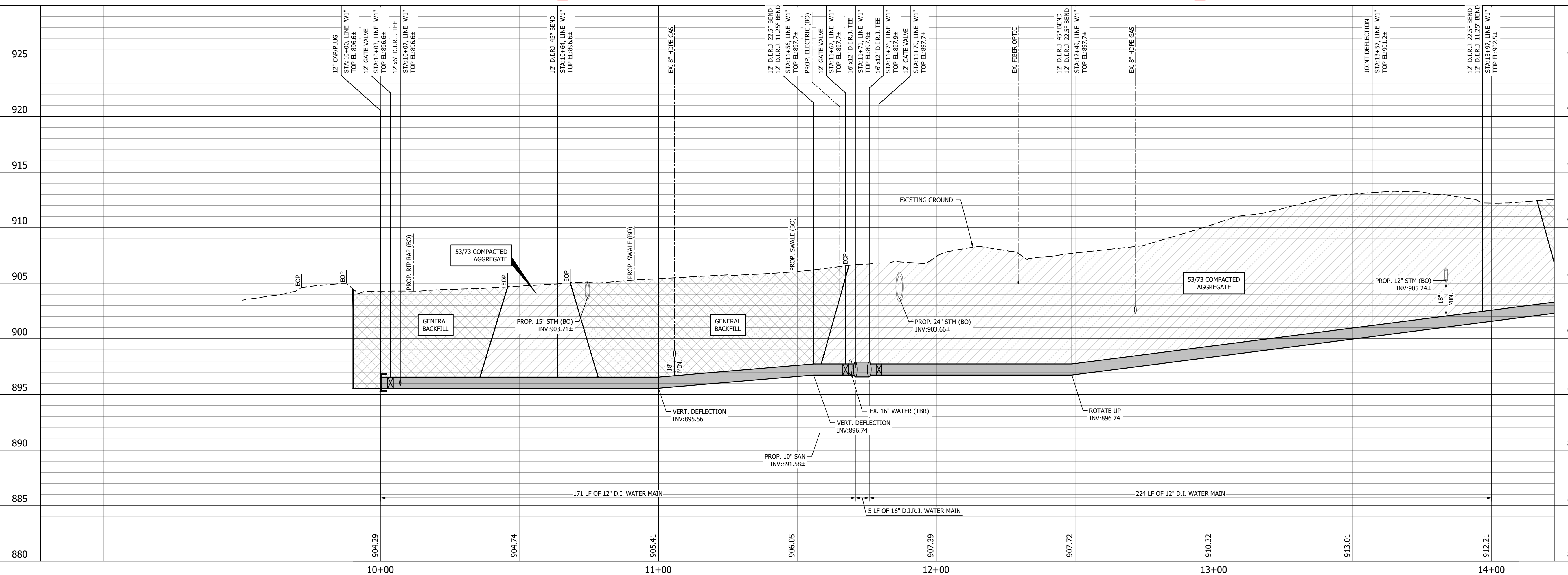
JOYCE HARRIS

DAVID RAYMOND, ET UX

BRIAN K. PRATT, ET UX

MANDATORY ALTERNATE BID NO. 1

PLOT DATE: 5/30/2025 9:50 AM EDITED BY: PFRANKSKI DRAWING FILE: P:\2025\00749\0 DRAWINGS\UTILITY INFRASTRUCTURE\202500749\I.P.P.M\DWG



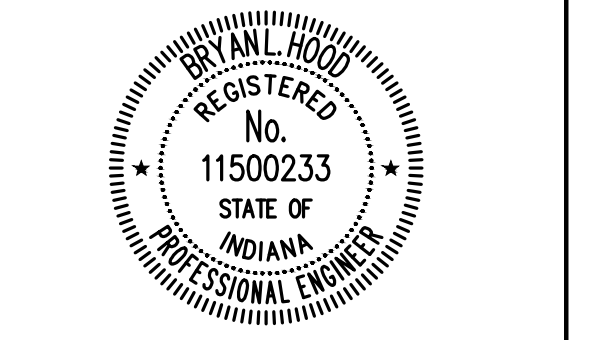
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ISSUANCE INDEX	
DATE:	5/15/2025
PROJECT PHASE:	100% PLANS

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NO.	DESCRIPTION	DATE
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Project Number 2025.00749

PLAN AND PROFILE WATER MAIN LINE "W1"

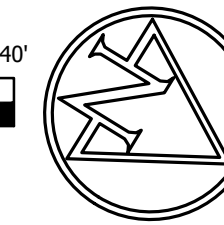
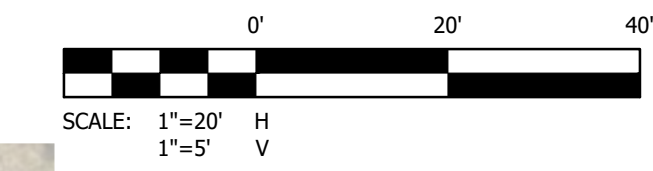
C-117

- GENERAL NOTES:**
1. ROUNDABOUT, STORM SEWER, ELECTRICAL, LIGHTING DESIGN, AND EROSION CONTROL MEASURES BY OTHERS AND PART OF PROJECT 2205FFE P.E.
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BOARD OF TRUSTEES
OF THE CAVALRY BIBLE
METHODIST CHURCH, INC.

RAYMOND D. GODFREY
& BRENDA L. CHEYNEY

RAYMOND D. GODFREY
& BRENDA L. CHEYNEY



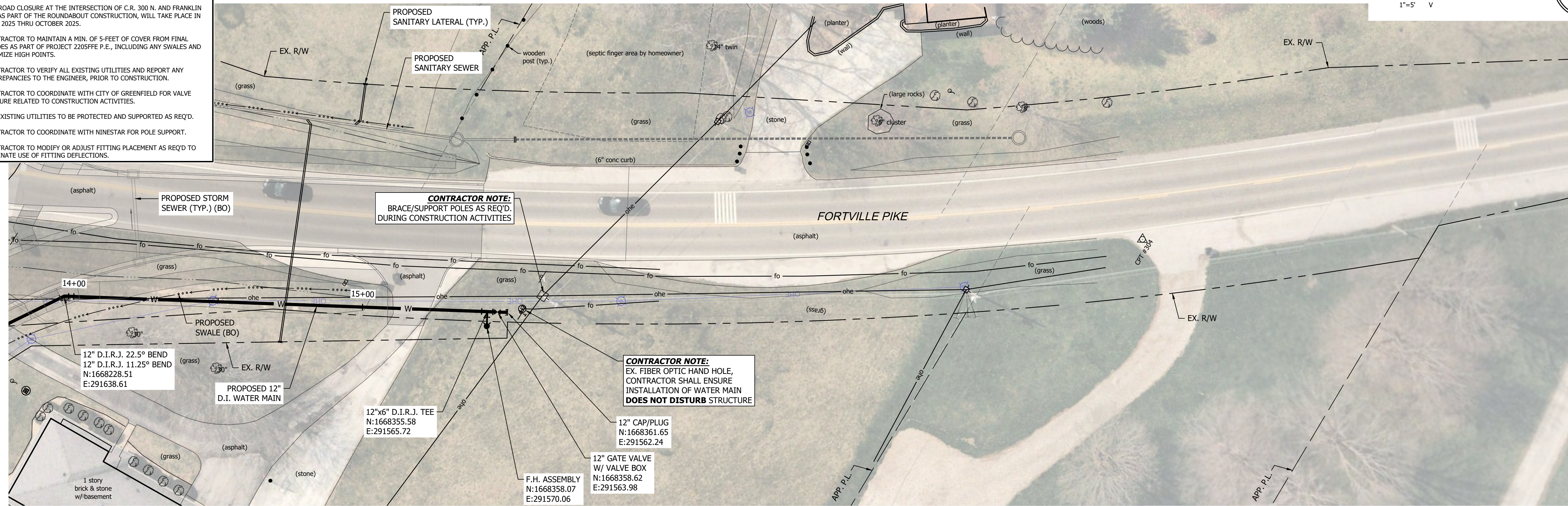
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**FRANKLIN STREET
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Greenfield, Indiana



MANDATORY ALTERNATE BID NO. 1

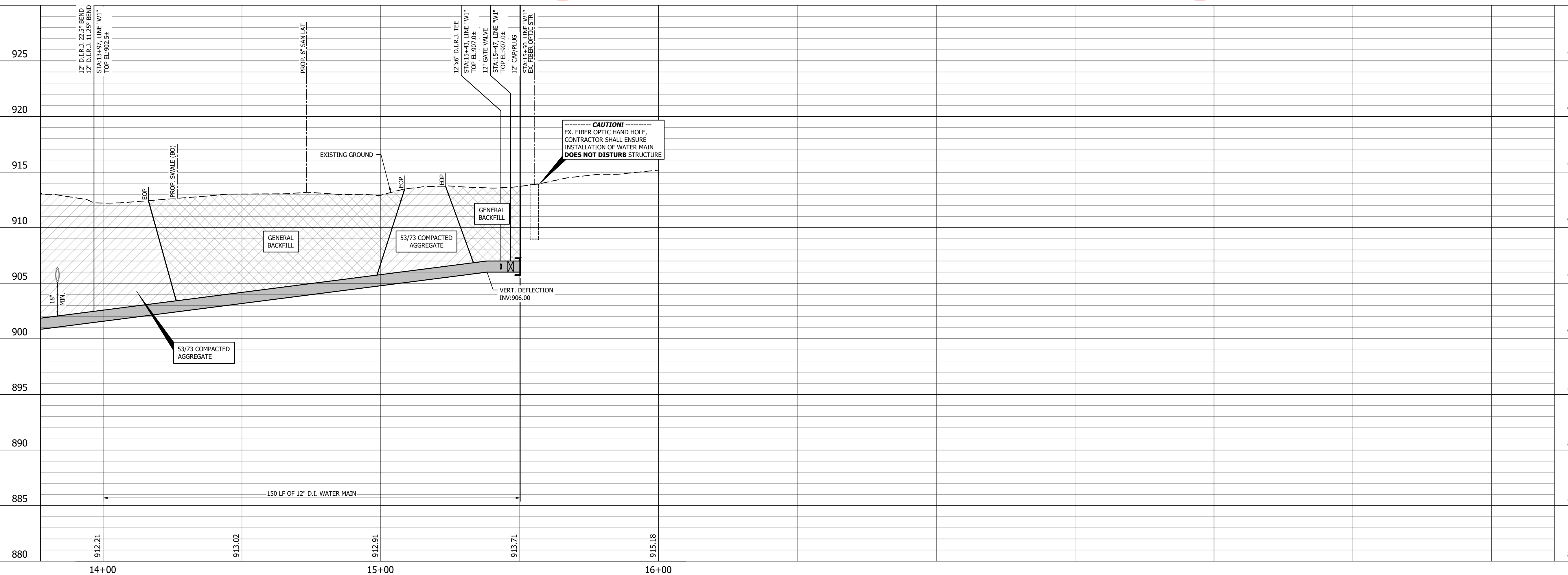
BRIAN K.
PRATT, ET UX

BRIAN K.
PRATT, ET UX

STEVE
EMMONS, ET UX

RICHARD D.
GRIFFON, ET UX

PLOT DATE: 5/30/2025 9:50 AM EDITED BY: P. TRAMINSKI DRAWING FILE: P:\2025\00749\0. DRAWINGS\UTILITY-INFRASTRUCTURE\202500749.U\PP.WM.DWG



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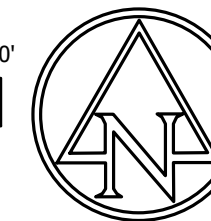
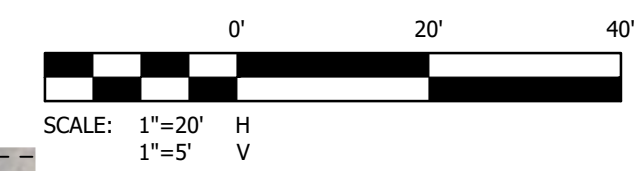
<i>Bryan L. Hood</i> 5/15/2025 CERTIFIED BY		
ISSUANCE INDEX		
DATE: 5/15/2025		
PROJECT PHASE: 100% PLANS		
REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1	THIS SHEET REPLACES PREVIOUSLY DATED SHEET: 5/15/2025	5/30/25
Project Number 2025.00749		
PLAN AND PROFILE WATER MAIN LINE "W1"		
C-118		

- GENERAL NOTES:**
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BOARD OF TRUSTEES
OF THE CALVARY BIBLE
METHODIST CHURCH, INC.

BRIAN K.
PRATT, ET UX

NORMAN E. BAKER
LIVING TRUST



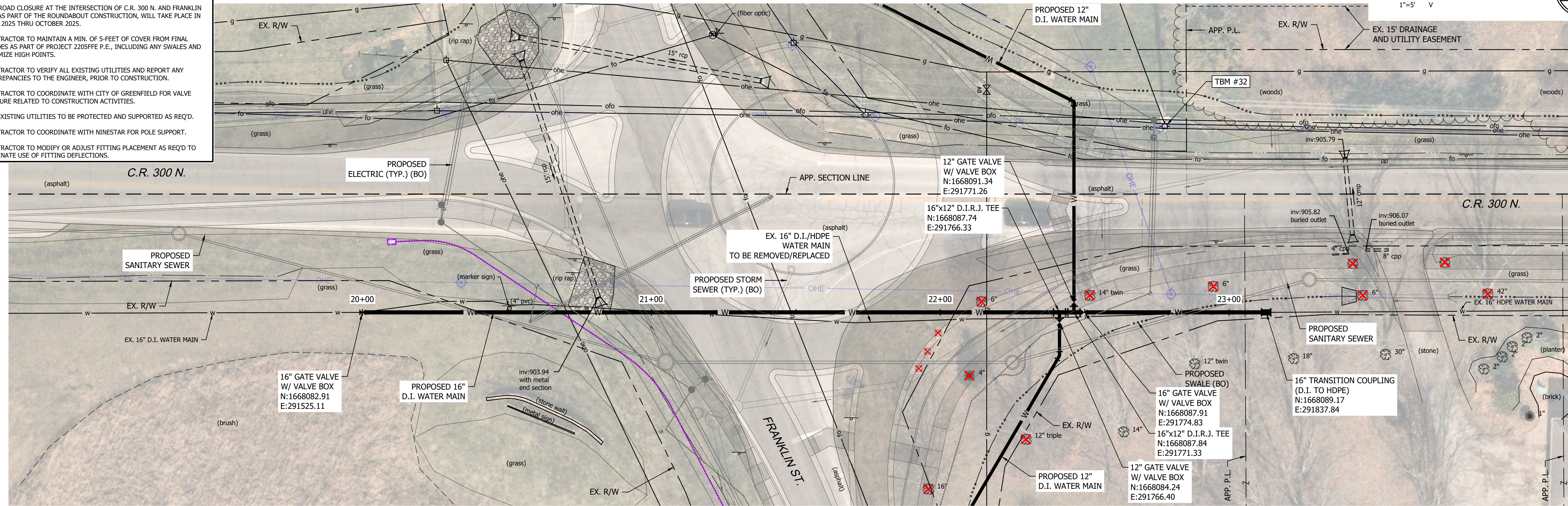
**CITY OF
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**FRANKLIN STREET
SANITARY SEWER EXT.**

Greenfield, Indiana



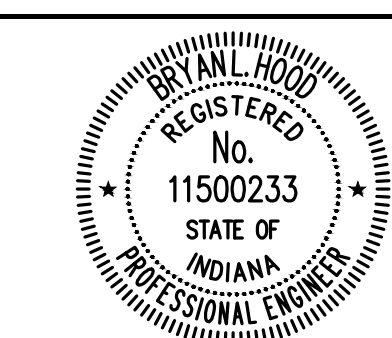
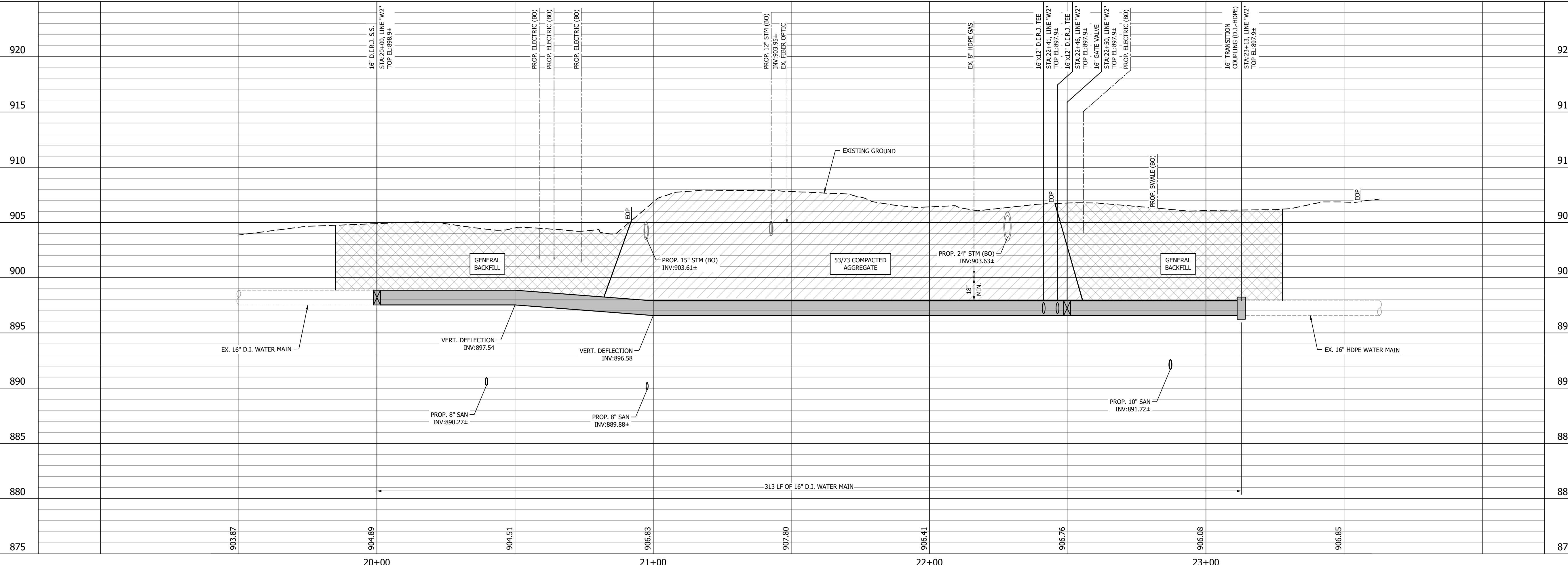
THE BOARD OF PARKS AND
RECREATION OF THE CITY
OF GREENFIELD, INDIANA

DAVID
RAYMOND, ET UX

DAVID
RAYMOND, ET UX

MANDATORY ALTERNATE BID NO. 1

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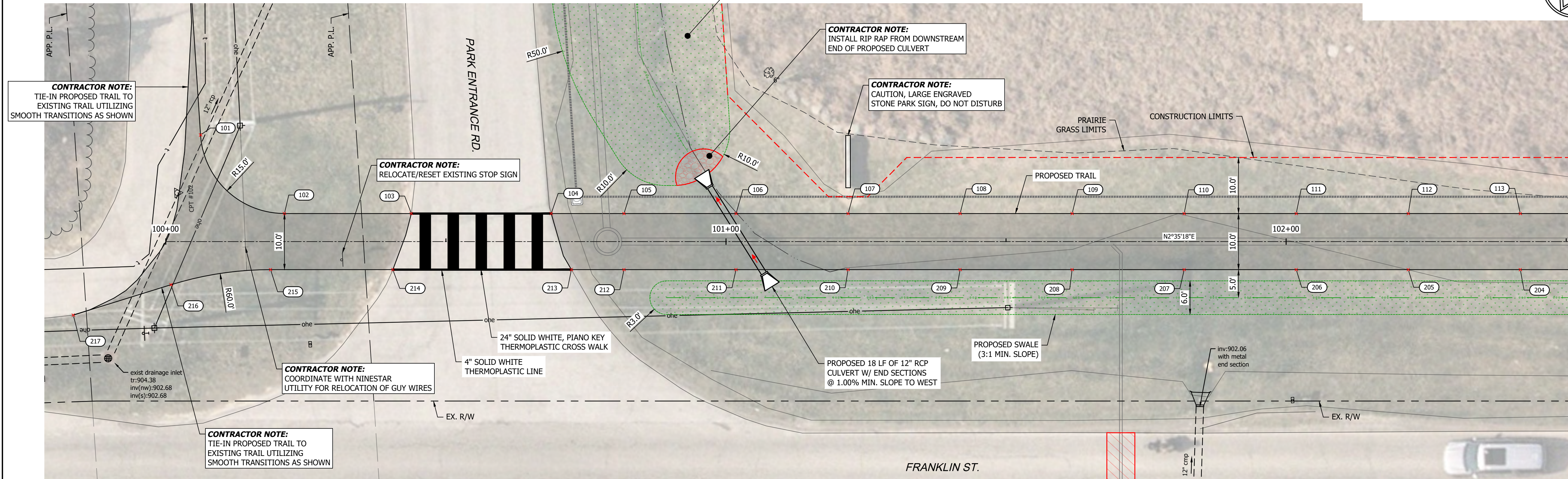
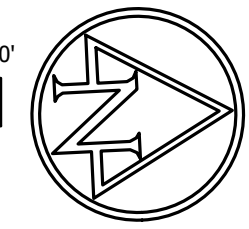
**PLAN AND PROFILE
WATER MAIN
LINE "W2"**

C-119

THE BOARD OF PARKS AND RECREATION OF THE CITY OF GREENFIELD, INDIANA

THE BOARD OF PARKS AND RECREATION OF THE CITY OF GREENFIELD, INDIANA

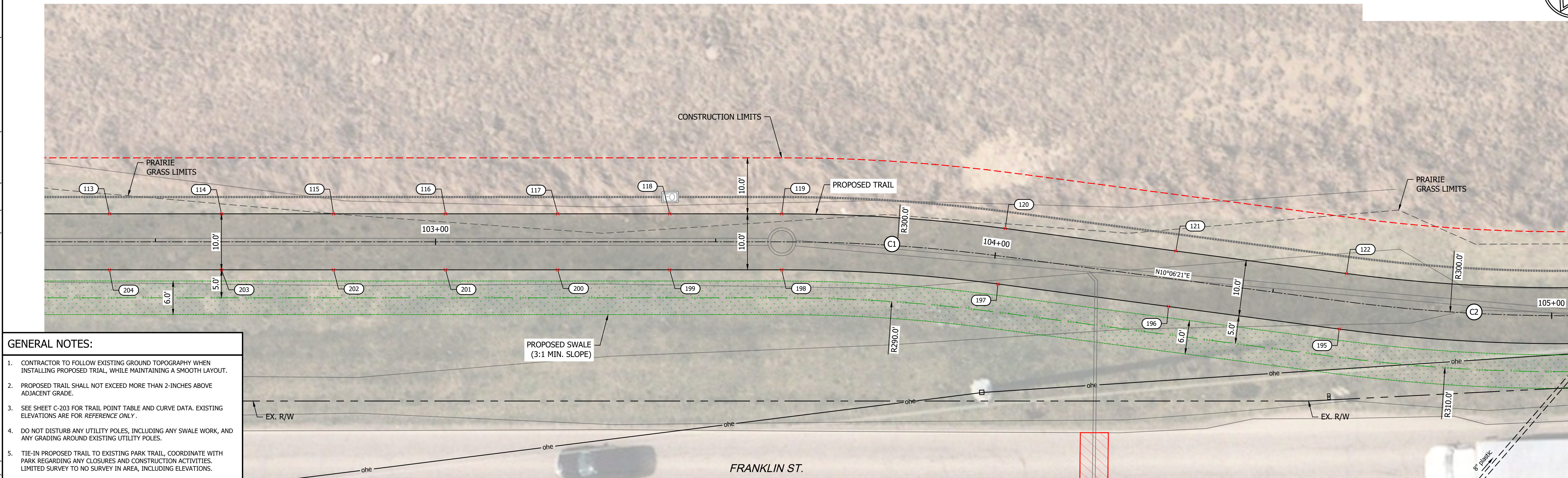
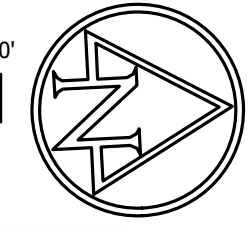
THE BOARD OF PARKS AND RECREATION OF THE CITY OF GREENFIELD, INDIANA



MANDATORY ALTERNATE BID NO. 2

THE BOARD OF PARKS AND RECREATION OF THE CITY OF GREENFIELD, INDIANA

THE BOARD OF PARKS AND RECREATION OF THE CITY OF GREENFIELD, INDIANA



MANDATORY ALTERNATE BID NO. 2

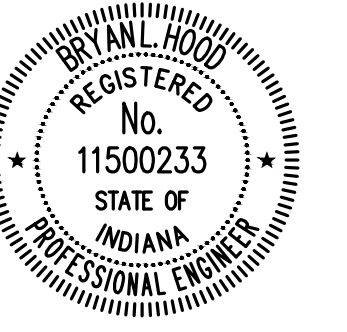
CITY OF GREENFIELD



116 East Berry St., Ste 1515 | Fort Wayne, Indiana 46802
TEL 260.373.0600 | FAX 260.373.0608
www.structurepoint.com

FRANKLIN STREET SANITARY SEWER EXT.

Greenfield, Indiana



Bryan L. Hood 5/15/2025
CERTIFIED BY

ISSUANCE INDEX	
DATE:	5/15/2025
PROJECT PHASE:	100% PLANS

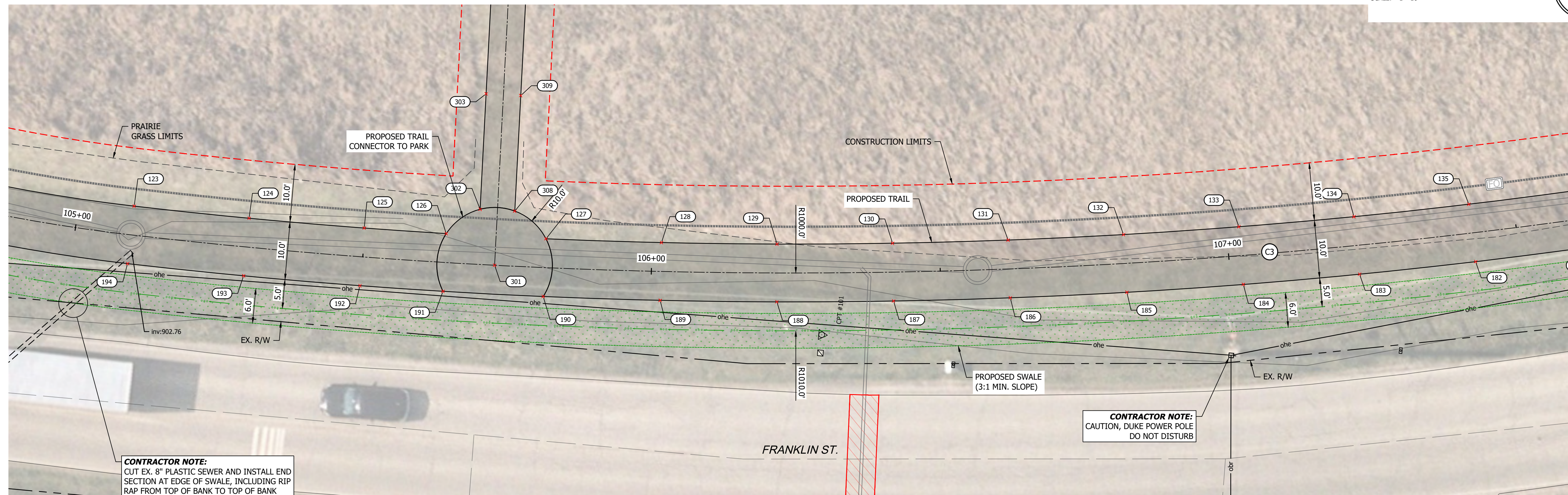
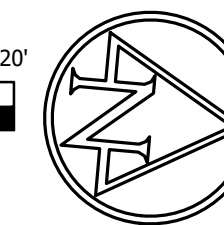
REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1	THIS SHEET REPLACES PREVIOUSLY DATED SHEET: 5/15/2025	5/30/25

Project Number 2025.00749

CONSTRUCTION DETAILS

C-201

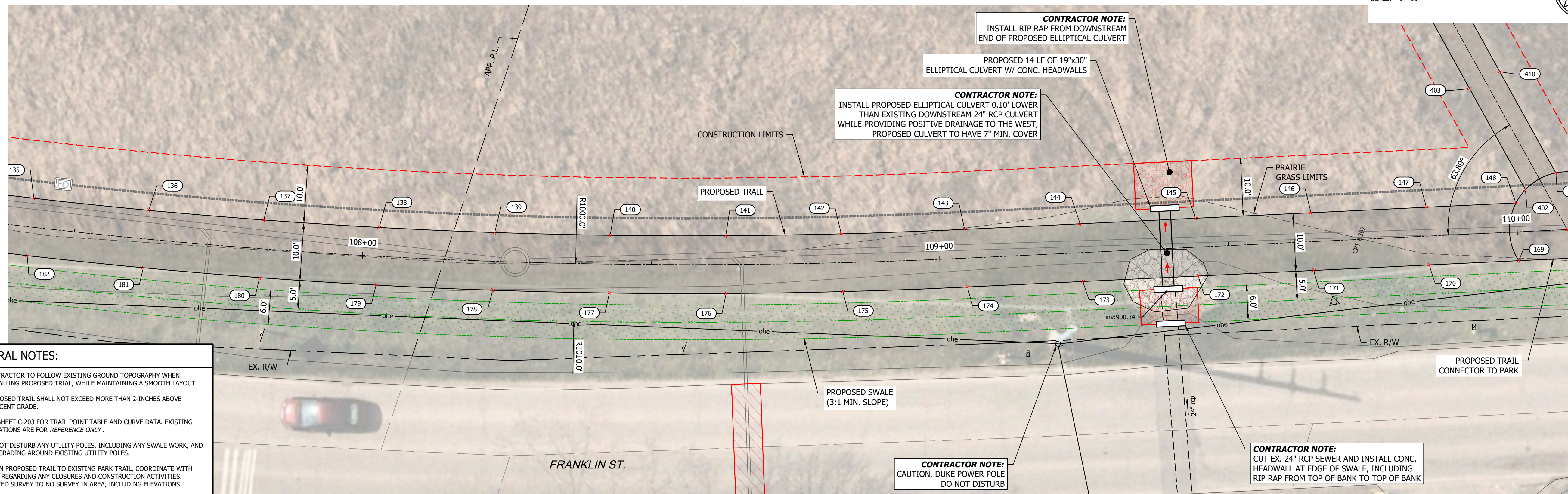
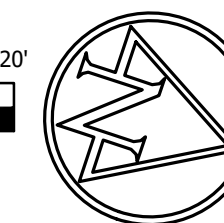
PLOT DATE: 5/30/2025 9:50 AM EDITED BY: PFRANKINSKI DRAWING FILE: P:\2025\00749\0 DRAWINGS\UTILITY-INFRASTRUCTURE\202500749.UJ.CD.DWG



CONTRACTOR NOTE:
CUT EX. 8" PLASTIC SEWER AND INSTALL END SECTION AT EDGE OF SWALE, INCLUDING RIP RAP FROM TOP OF BANK TO TOP OF BANK

CONTRACTOR NOTE:
CAUTION, DUKE POWER POLE DO NOT DISTURB

MANDATORY ALTERNATE BID NO. 2



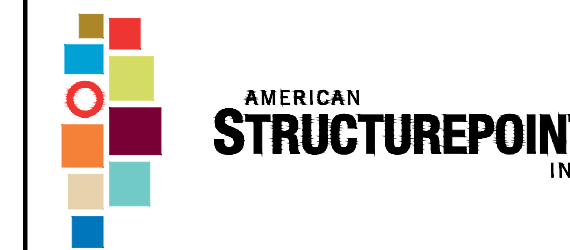
CONTRACTOR NOTE:
INSTALL PROPOSED ELLIPTICAL CULVERT 0.10' LOWER THAN EXISTING DOWNSTREAM 24" RCP CULVERT WHILE PROVIDING POSITIVE DRAINAGE TO THE WEST, PROPOSED CULVERT TO HAVE 7" MIN. COVER

CONTRACTOR NOTE:
INSTALL RIP RAP FROM DOWNSTREAM END OF PROPOSED ELLIPTICAL CULVERT

CONTRACTOR NOTE:
CUT EX. 24" RCP SEWER AND INSTALL CONC. HEADWALL AT EDGE OF SWALE, INCLUDING RIP RAP FROM TOP OF BANK TO TOP OF BANK

- GENERAL NOTES:**
- CONTRACTOR TO FOLLOW EXISTING GROUND TOPOGRAPHY WHEN INSTALLING PROPOSED TRAIL, WHILE MAINTAINING A SMOOTH LAYOUT.
 - PROPOSED TRAIL SHALL NOT EXCEED MORE THAN 2-INCHES ABOVE ADJACENT GRADE.
 - SEE SHEET C-203 FOR TRAIL POINT TABLE AND CURVE DATA. EXISTING ELEVATIONS ARE FOR REFERENCE ONLY.
 - DO NOT DISTURB ANY UTILITY POLES, INCLUDING ANY SWALE WORK, AND ANY GRADING AROUND EXISTING UTILITY POLES.
 - TIE-IN PROPOSED TRAIL TO EXISTING PARK TRAIL, COORDINATE WITH PARK REGARDING ANY CLOSURES AND CONSTRUCTION ACTIVITIES. LIMITED SURVEY TO NO SURVEY IN AREA, INCLUDING ELEVATIONS.
 - CONTACT ELLEN KUKER OR JOSH GENTRY WITH THE GREENFIELD PARKS AND RECREATION, PHONE: (317) 477-4340 AT LEAST 2-WEEKS NOTICE PRIOR TO ANY WORK BEING PERFORMED.
 - PROPOSED SWALE TO BE 3:1 MIN. SLOPE, MAINTAIN EXISTING SWALE DOWNSTREAM ROUTE AND ENSURE POSITIVE DRAINAGE. MAINTAIN A 2-FT MIN. BUFFER/SETBACK FROM EDGE OF PROPOSED TRAIL.

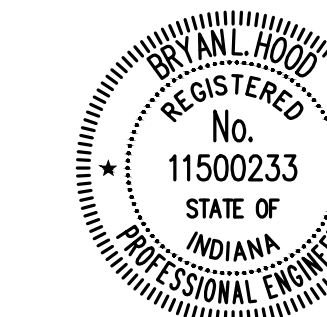
MANDATORY ALTERNATE BID NO. 2



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FRANKLIN STREET SANITARY SEWER EXT.

Greenfield, Indiana



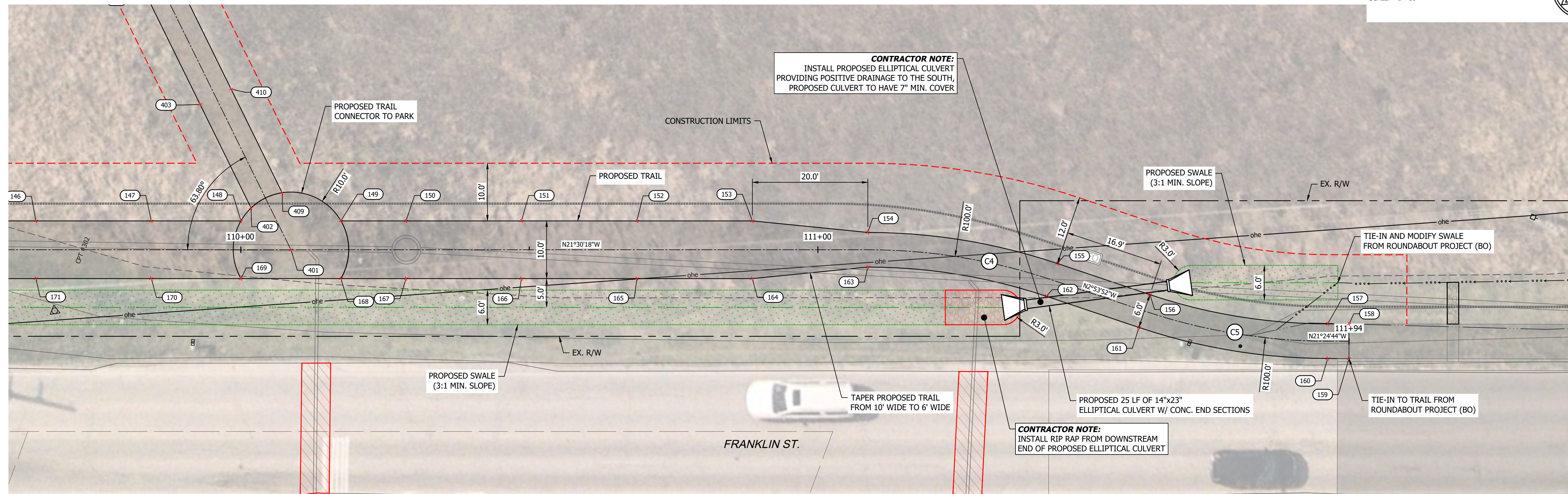
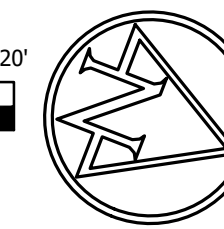
Bryan L. Hood 5/15/2025
CERTIFIED BY

ISSUANCE INDEX	
DATE:	5/15/2025
PROJECT PHASE:	100% PLANS

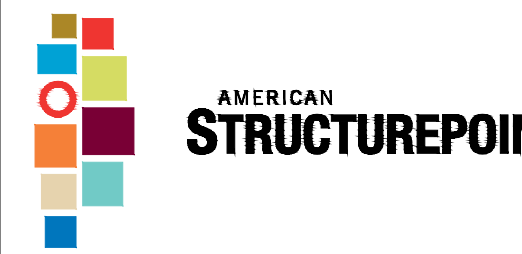
REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1	THIS SHEET REPLACES PREVIOUSLY DATED SHEET: 5/15/2025	5/30/25

Project Number 2025.00749

CONSTRUCTION DETAILS C-202



MANDATORY ALTERNATE BID NO. 2



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FRANKLIN STREET SANITARY SEWER EXT.

Greenfield, Indiana

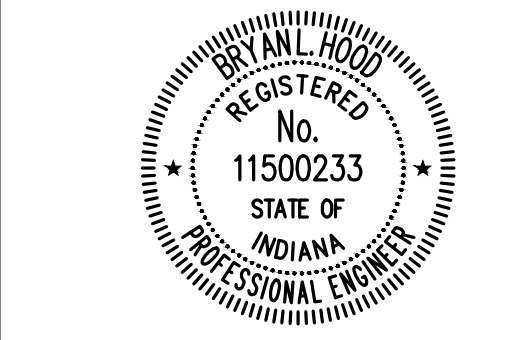
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POINT NO.	EX. EL.	NORTHING	EASTING	POINT NO.	EX. EL.	NORTHING	EASTING	POINT NO.	EX. EL.	NORTHING	EASTING	POINT NO.	EX. EL.	NORTHING	EASTING	POINT NO.	EX. EL.	NORTHING	EASTING	POINT NO.	EX. EL.	NORTHING	EASTING	POINT NO.	EX. EL.	NORTHING	EASTING	POINT NO.	EX. EL.	NORTHING	EASTING
101	903.04	1666715.32	291827.77	119	904.85	1667069.91	291857.84	137	901.10	1667484.97	291845.98	155	902.38	1667823.51	291728.48	173	901.09	1667622.59	291810.45	191	903.85	1667270.77	291887.13	209	901.84	1666849.68	291857.89	309	0.00	1667280.93	291852.15
102	902.95	1666729.64	291842.45	120	904.66	1667109.65	291862.26	138	901.06	1667504.28	291840.78	156	902.74	1667840.40	291727.62	174	901.32	1667603.98	291817.79	192	903.95	1667256.36	291887.53	210	901.72	1666829.70	291856.99	310	0.00	1667280.06	291832.17
103	903.51	1666752.26	291843.48	121	904.15	1667139.90	291867.65	139	900.95	1667523.48	291835.18	157	902.91	1667870.91	291721.05	175	901.43	1667583.83	291825.48	193	903.86	1667236.16	291887.75	211	902.22	1666809.72	291856.08	311	0.00	1667279.18	291812.19
104	903.41	1666777.21	291844.60	122	903.66	1667170.15	291873.04	140	900.87	1667542.57	291829.20	158	902.93	1667874.36	291719.70	176	901.50	1667564.81	291832.29	194	903.78	1667215.96	291887.56	212	902.80	1666789.74	291855.18	312	0.00	1667278.31	291792.21
105	902.26	1666790.19	291845.19	123	903.15	1667216.15	291877.56	141	900.85	1667561.53	291822.84	159	903.78	1667876.55	291725.29	177	901.46	1667545.65	291838.71	195	903.57	1667168.39	291882.88	213	903.57	1666780.36	291854.76	313	0.00	1667278.08	291786.98
106	901.60	1666810.17	291846.09	124	902.77	1667236.15	291877.75	142	900.70	1667580.36	291816.10	160	903.74	1667873.10	291726.64	178	901.35	1667526.38	291844.75	196	903.66	1667138.14	291877.49	214	903.77	1666748.52	291853.32	402	901.42	1667689.99	291770.75
107	903.82	1666830.15	291847.00	125	902.83	1667256.15	291877.54	143	900.51	1667600.31	291808.48	161	902.76	1667840.71	291733.61	179	901.45	1667506.98	291850.40	197	903.74	1667107.89	291872.10	215	903.49	1666726.72	291852.33	403	901.04	1667675.20	291757.29
108	903.34	1666850.13	291847.90	126	902.76	1667270.37	291877.14	144	900.22	1667618.92	291801.15	162	902.50	1667823.81	291734.47	180	901.56	1667487.48	291855.66	198	903.91	1667069.45	291867.83	216	903.98	1666708.85	291854.22	404	0.00	1667660.41	291743.83
109	902.69	1666870.11	291848.80	127	902.69	1667287.63	291876.39	145	900.38	1667637.53	291793.82	163	902.20	1667793.16	291741.10	181	901.75	1667467.87	291860.53	199	904.07	1667049.47	291866.92	217	904.24	1666691.17	291858.83	405	0.00	1667645.61	291730.37
110	902.01	1666890.09	291849.71	128	902.62	1667307.59	291875.14	146	900.70	1667656.14	291786.49	164	902.08	1667775.28	291750.29	182	902.03	1667448.17	291865.00	200	904.07	1667029.50	291866.02	301	903.15	1667279.22	291881.80	406	0.00	1667630.82	291716.91
111	902.54	1666910.07	291850.61	129	902.61	1667327.53	291873.49	147	901.31	1667674.75	291779.16	165	901.90	1667756.68	291757.62	183	902.13	1667428.39	291869.08	201	903.78	1667009.52	291865.12	401	901.59	1667699.07	291774.95	407	0.00	1667616.03	291703.45
112	903.06	1666930.05	291851.51	130	902.56	1667347.42	291871.44	148	901.46	1667689.18	291773.47	166	901.74	1667738.07	291764.95	184	902.15	1667408.52	291872.75	202	903.46	1666989.54	291864.21	302	902.82	1667275.81	291872.40	408	0.00	1667602.00	291690.69
113	903.48	1666950.03	291852.42	131	902.31	1667367.27	291868.99	149	901.51	1667705.29	291767.12	167	901.68	1667719.46	291772.29	185	902.41	1667388.59	291876.03	203	903.10	1666969.56	291863.31	303	0.00	1667274.94	291852.41	409	901.40	1667694.03	291766.31
114	904.16	1666970.01	291853.32	132	902.09	1667387.07	291866.15	150	901.52	1667715.80	291762.98	168	901.65	1667708.96	291776.42	186	902.65	1667368.59	291878.91	204	902.86	1666949.58	291862.41	304	0.00	1667274.06	291832.43	410	901.01	1667679.24	291752.85
115	905.26	1666989.99	291854.22	133	901.88	1667406.80	291862.90	151	901.56	1667734.40	291755.65	169	901.62	1667692.84	291782.77	187	903.04	1667348.55	291881.38	205	902.46	1666929.60	291861.50	305	0.00	1667273.19	291812.45	411	0.00	1667664.44	291739.39
116	905.34	1667009.97	291855.13	134	901.71	1667426.47	291859.26	152	901.78	1667753.01	291748.32	170	901.63	1667678.41	291788.46	188	903.35	1667328.45	291883.45	206	902.22	1666909.62	291860.60	306	0.00	1667272.32	291792.47	412	0.00	1667649.65	291725.93
117	905.24	1667029.95	291856.03	135	901.58	1667446.06	291855.23	153	902.00	1667771.62	291740.99	171	901.52	1667659.80	291795.79	189	903.33	1667308.32	291885.11	207	901.94	1666889.64	291859.70	307	0.00	1667272.01	291785.53	413	0.00	1667634.86	291712.47
118	905.06	1667049.93	291856.93	136	901.37	1667465.56	291850.80	154	902.19	1667790.96	291735.52	172	900.87	1667641.20	291803.12	190	903.53	1667288.11	291886.37	208	901.95	1666869.66	291858.79	308	902.79	1667281.80	291872.13	414	0.00	1667620.06	291699.01

POINT TABLE: TRAIL			
POINT NO.	EX. EL.	NORTHING	EASTING
415	0.00	1667604.78	291685.11

GENERAL NOTES:

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CURVE TABLE: TRAIL										
CURVE NO.	DELTA	RADIUS	TANGENT	LENGTH	CURVE LENGTH	CHORD DIRECTION	START		END	
C1	7° 31' 02.59"	300.00'	19.71'	39.36'	39.33'	N6° 20' 49.28"E	N:1667069.68	E:291862.83	N:1667108.77	E:291867.18
C2	8° 59' 15.95"	300.00'	23.58'	47.06'	47.01'	N5° 36' 42.62"E	N:1667169.27	E:291877.96	N:1667216.06	E:291882.56
C3	22° 37' 22.32"	1000.00'	200.03'	394.84'	392.28'	N10° 11' 36.53"W	N:1667216.06	E:291882.56	N:1667602.15	E:291813.13
C4	18° 36' 26.10"	100.00'	16.38'	32.48'	32.33'	N12° 12' 04.64"W	N:1667792.06	E:291738.31	N:1667823.66	E:291731.47
C5	18° 30' 52.57"	100.00'	16.30'	32.31'	32.17'	N12° 09' 17.88"W	N:1667840.55	E:291730.62	N:1667872.01	E:291723.84



Bryan L. Hood 5/15/2025
CERTIFIED BY

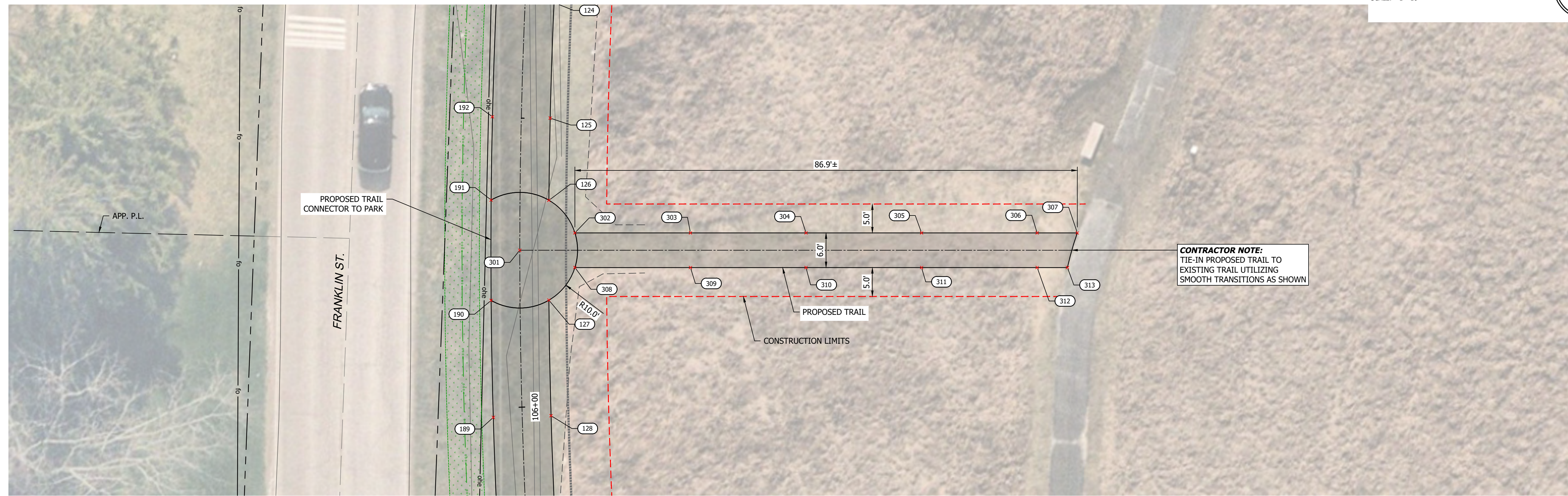
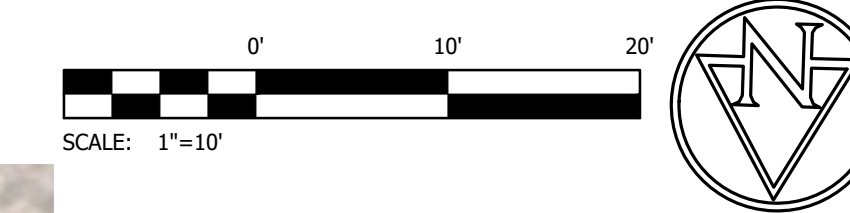
ISSUANCE INDEX	
DATE:	5/15/2025
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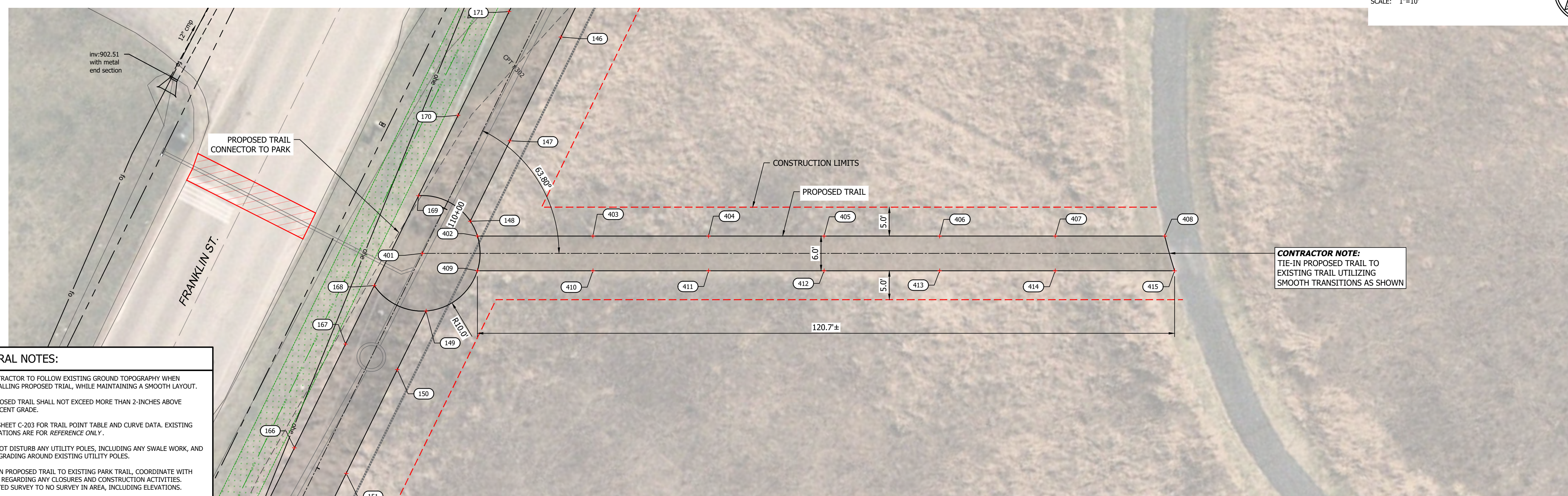
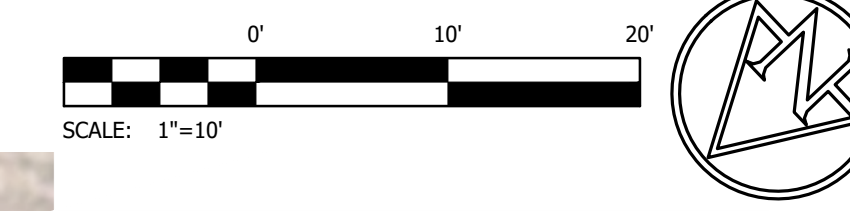
CONSTRUCTION DETAILS

C-203



CONTRACTOR NOTE:
TIE-IN PROPOSED TRAIL TO EXISTING TRAIL UTILIZING SMOOTH TRANSITIONS AS SHOWN

MANDATORY ALTERNATE BID NO. 2



CONTRACTOR NOTE:
TIE-IN PROPOSED TRAIL TO EXISTING TRAIL UTILIZING SMOOTH TRANSITIONS AS SHOWN

PLOT DATE: 5/30/2025 9:51 AM EDITED BY: P. TRAWNSKI DRAWING FILE: P:\2025\00749\0 DRAWINGS\UTILITY-INFRASTRUCTURE\202500749\UI_CD.DWG

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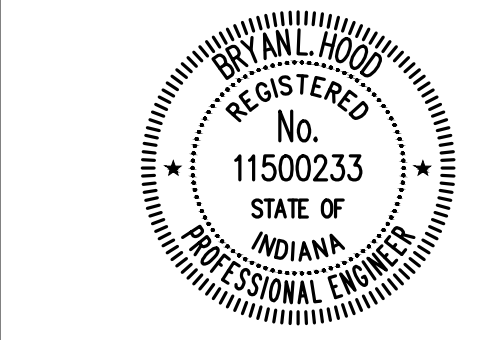
CITY OF GREENFIELD



AMERICAN STRUCTUREPOINT INC.
116 East Berry St., Ste 1515 | Fort Wayne, Indiana 46802
TEL 260.373.0600 | FAX 260.373.0608
www.structurepoint.com

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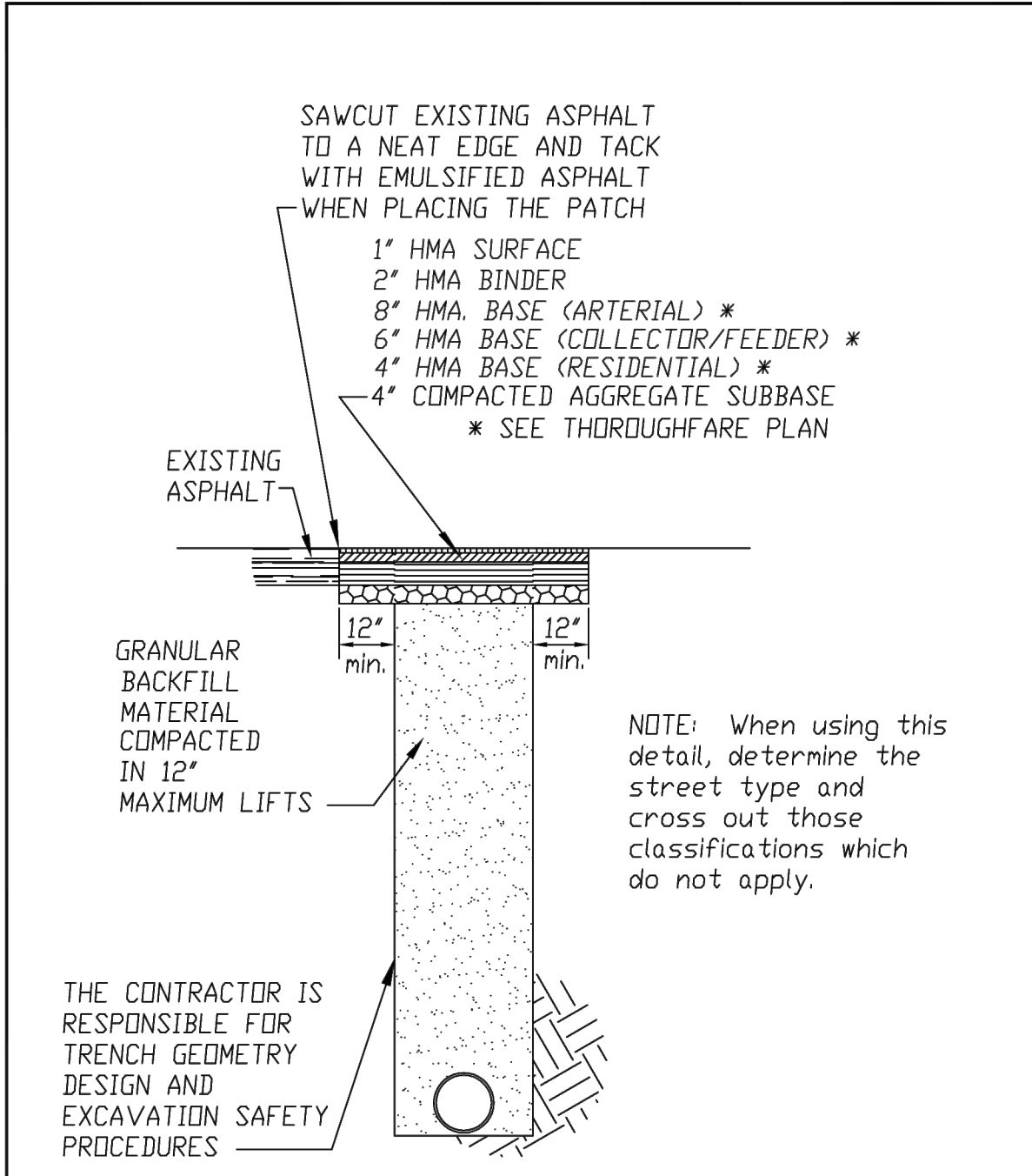
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1	THIS SHEET REPLACES PREVIOUSLY DATED SHEET: 5/15/2025	5/30/25

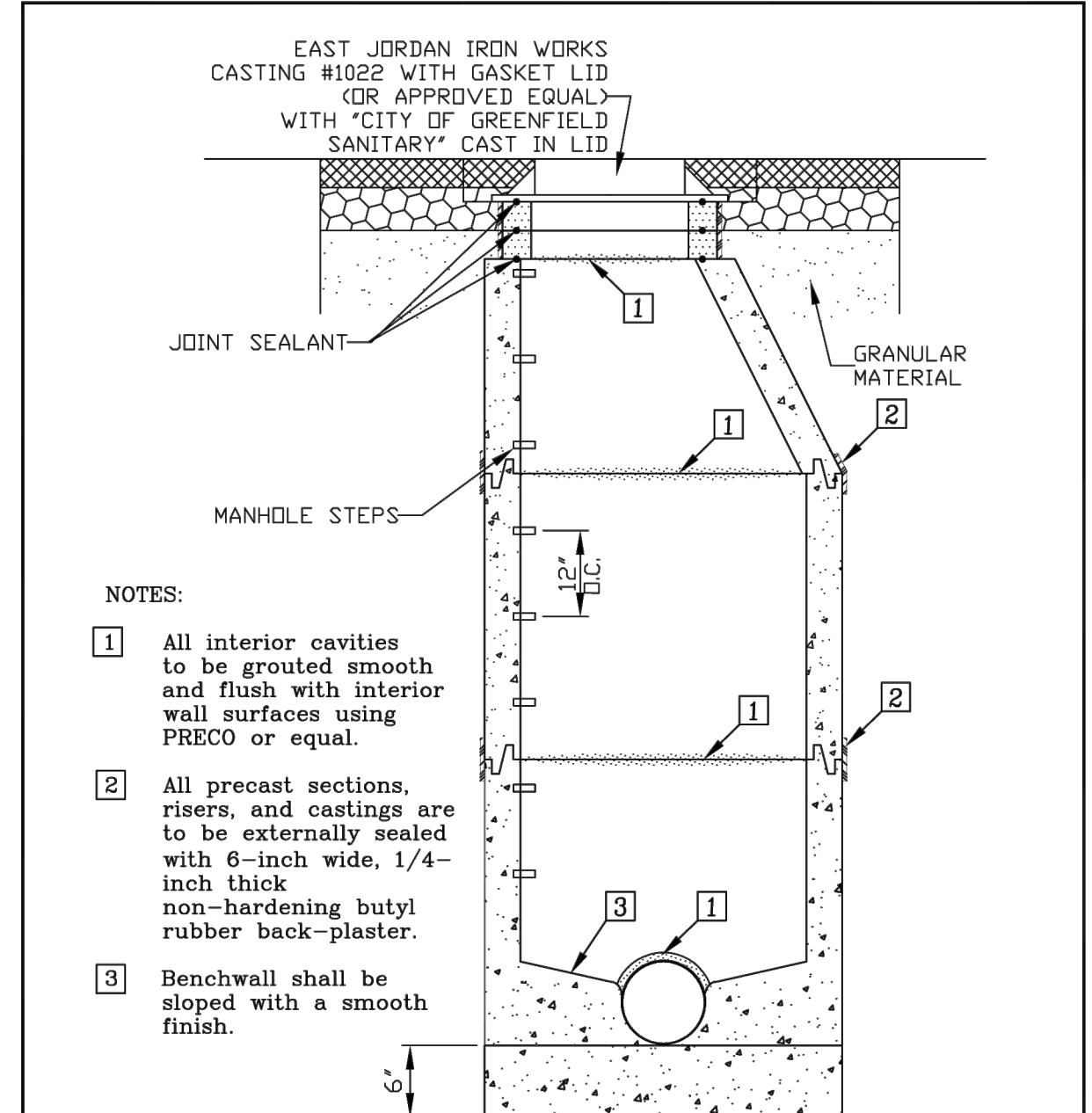
Project Number 2025.00749

CONSTRUCTION DETAILS

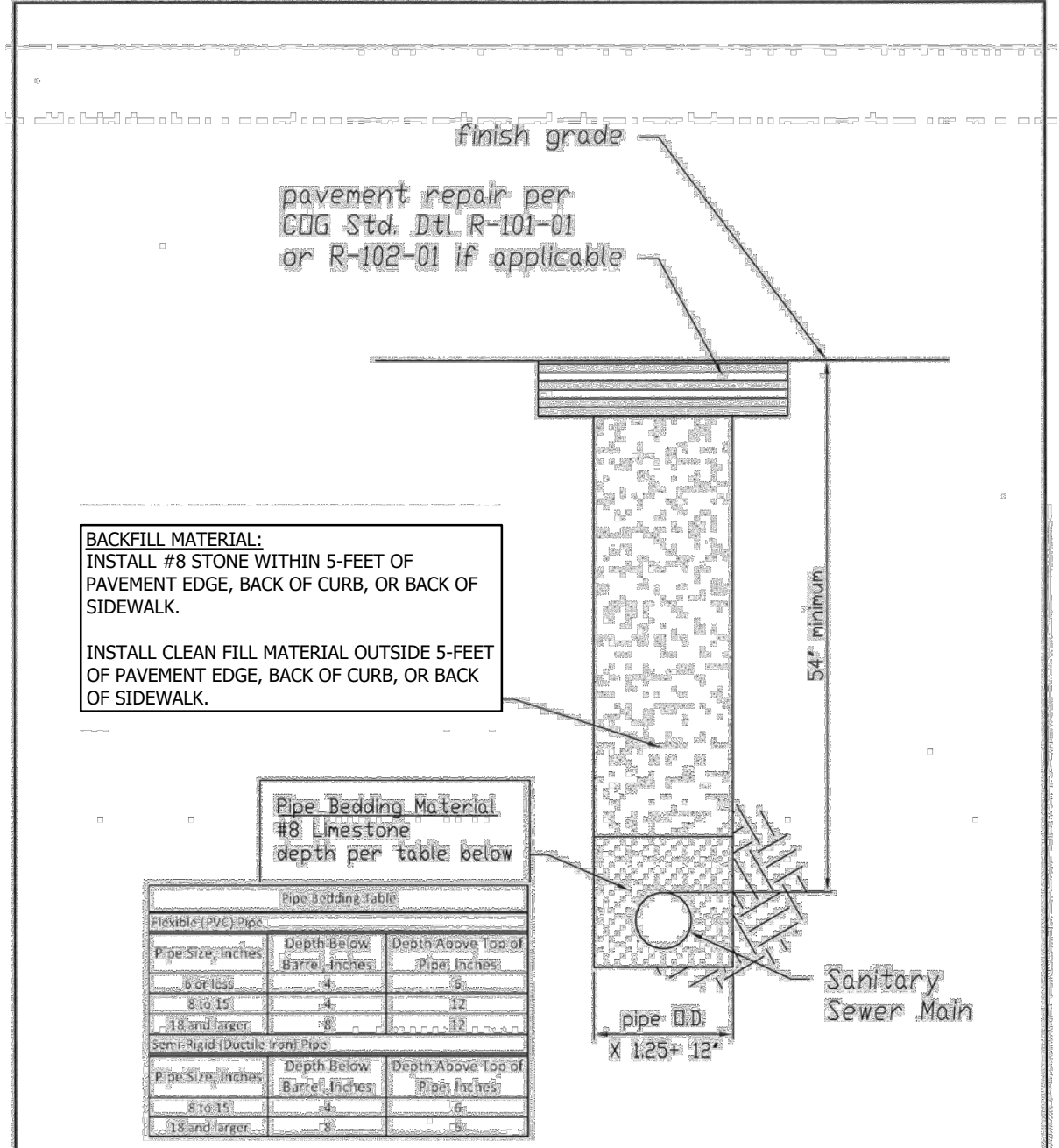
C-204



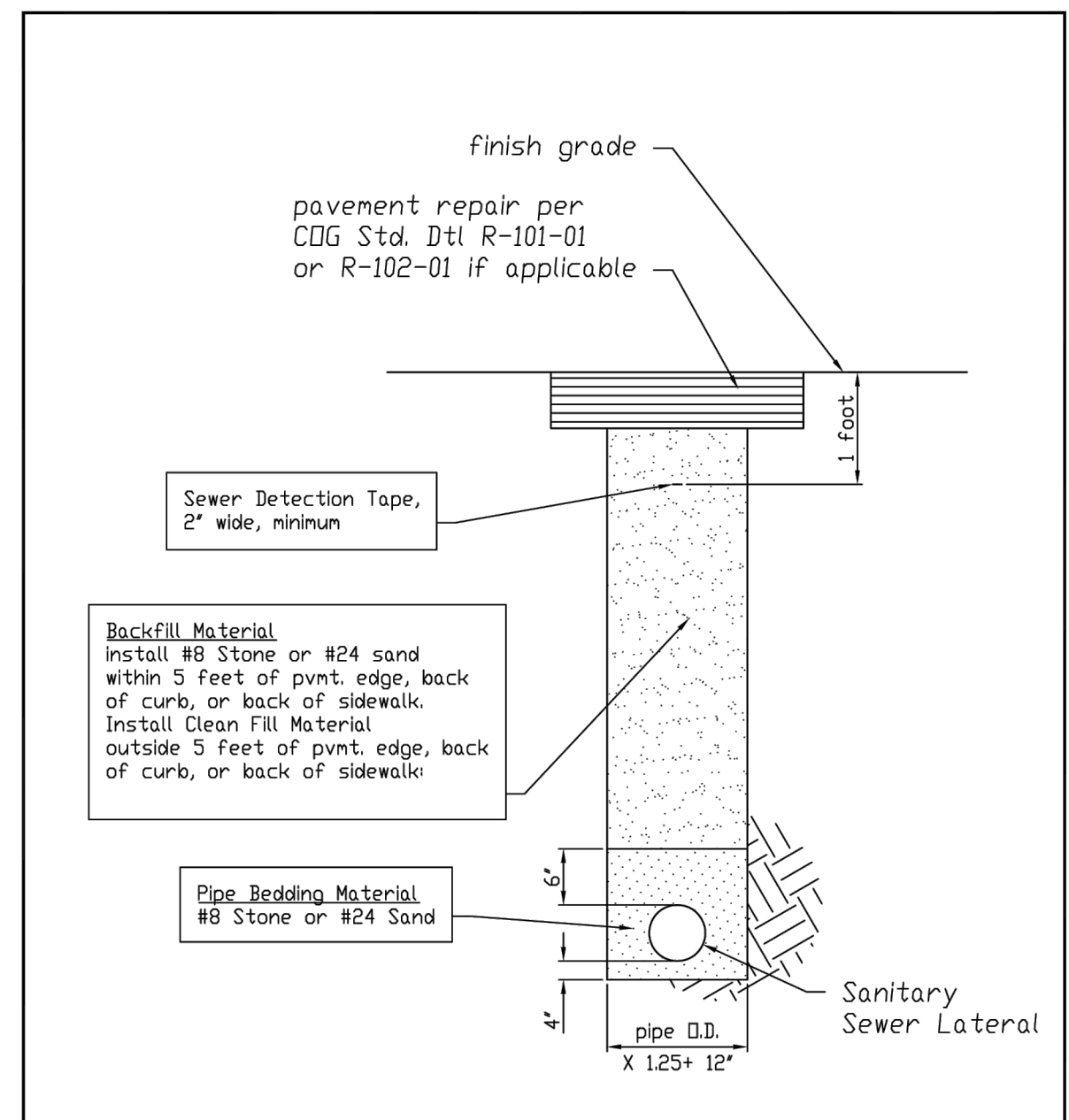
CITY OF GREENFIELD
STANDARD DETAIL
ASPHALT STREET CUT REPAIR DETAIL
Dwn.By: *D.Rodgers* Origin Date: 12/29/98
Des. No: R-101-01 Rev. Date: 12/10/07



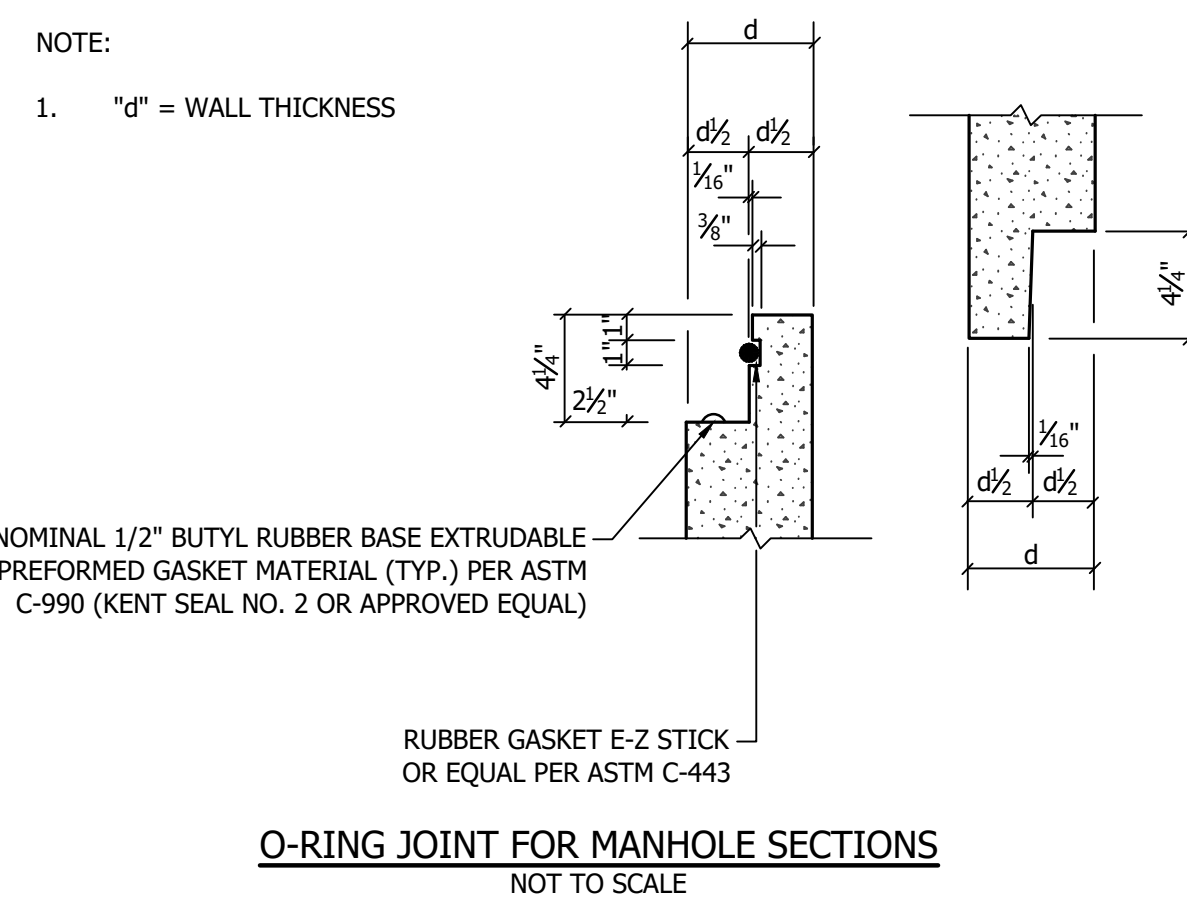
CITY OF GREENFIELD
STANDARD DETAIL
SANITARY SEWER MANHOLE
Dwn.By: *D.Rodgers* Origin Date: 01/04/99
Des. No: SN-115-02 Rev. Date: 08/01/08



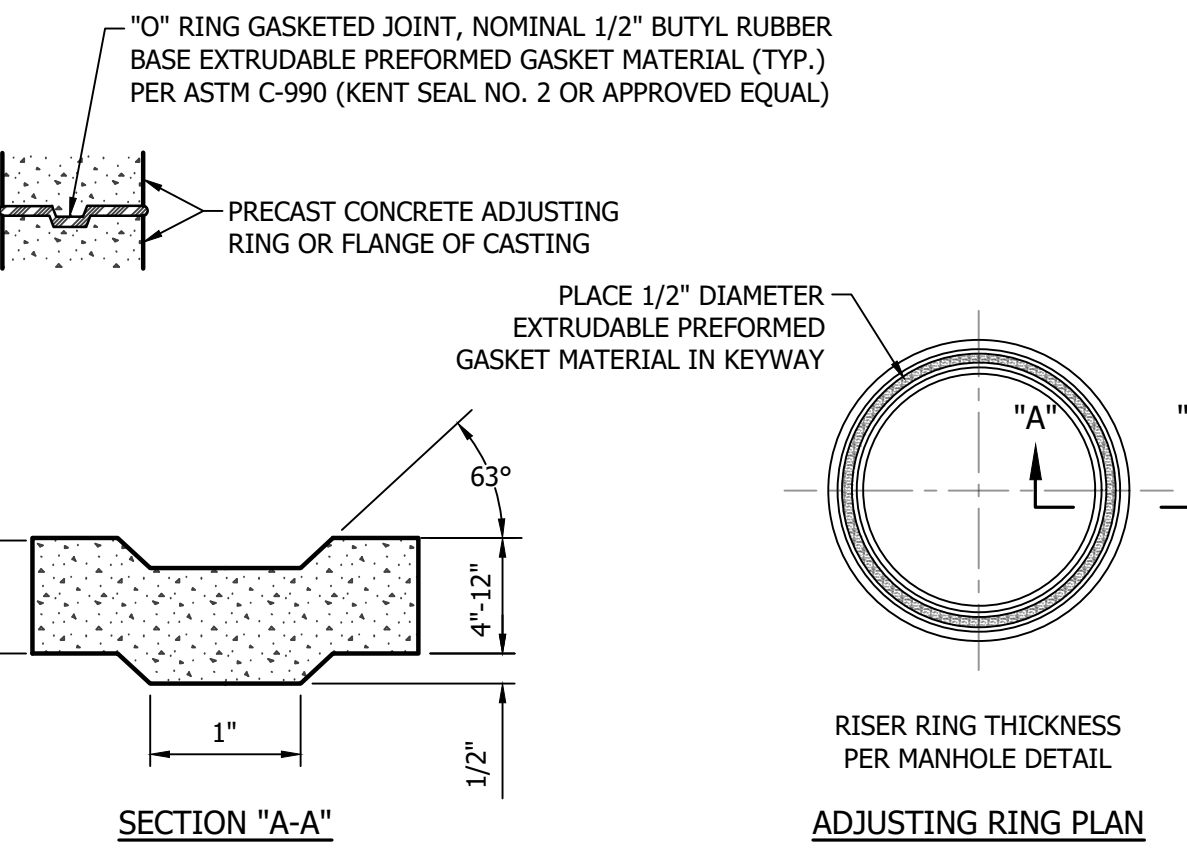
CITY OF GREENFIELD
STANDARD DETAIL
Mainline Sewer Backfill and Bedding
Dwn.By: *D.Rodgers* Origin Date: 1/12/2016
Des. No: SN-137 Rev. Date:



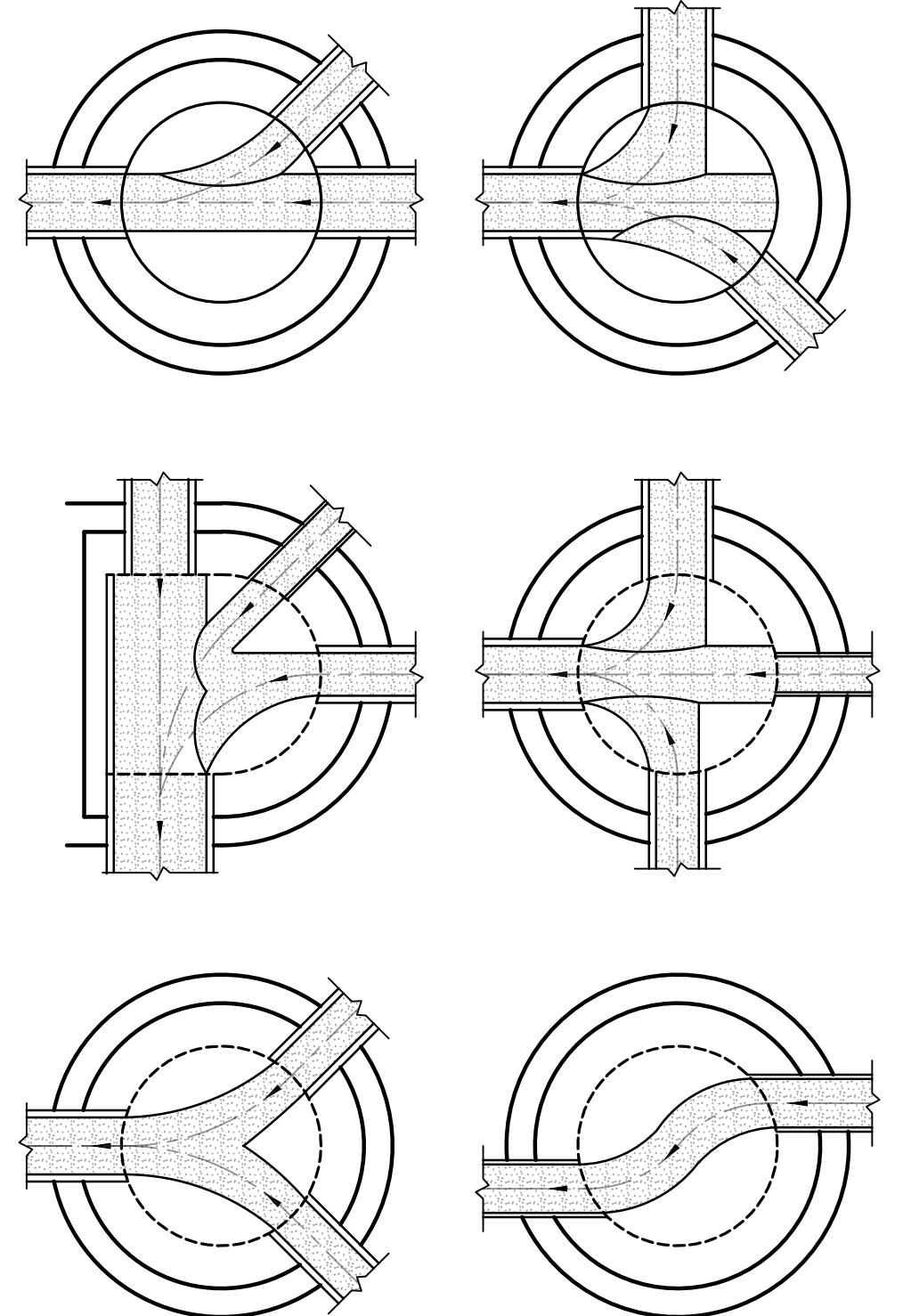
CITY OF GREENFIELD
STANDARD DETAIL
Sewer Lateral Backfill and Bedding
Dwn.By: *D.Rodgers* Origin Date: 1/13/2016
Des. No: SN-138 Rev. Date:



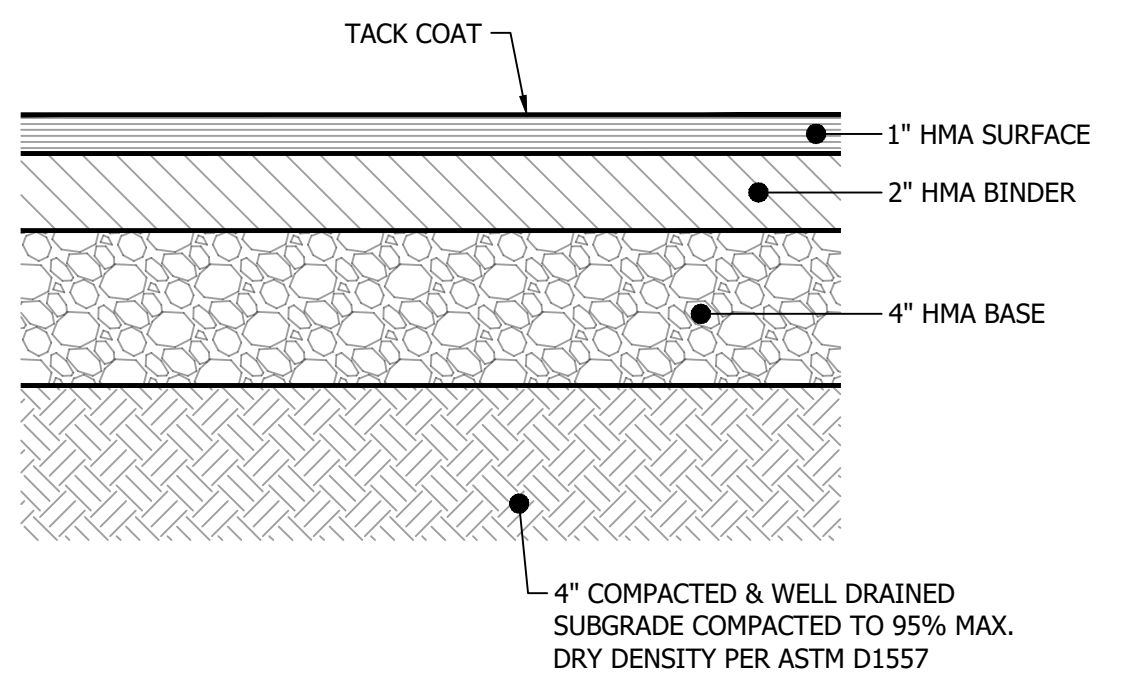
O-RING JOINT FOR MANHOLE SECTIONS
NOT TO SCALE



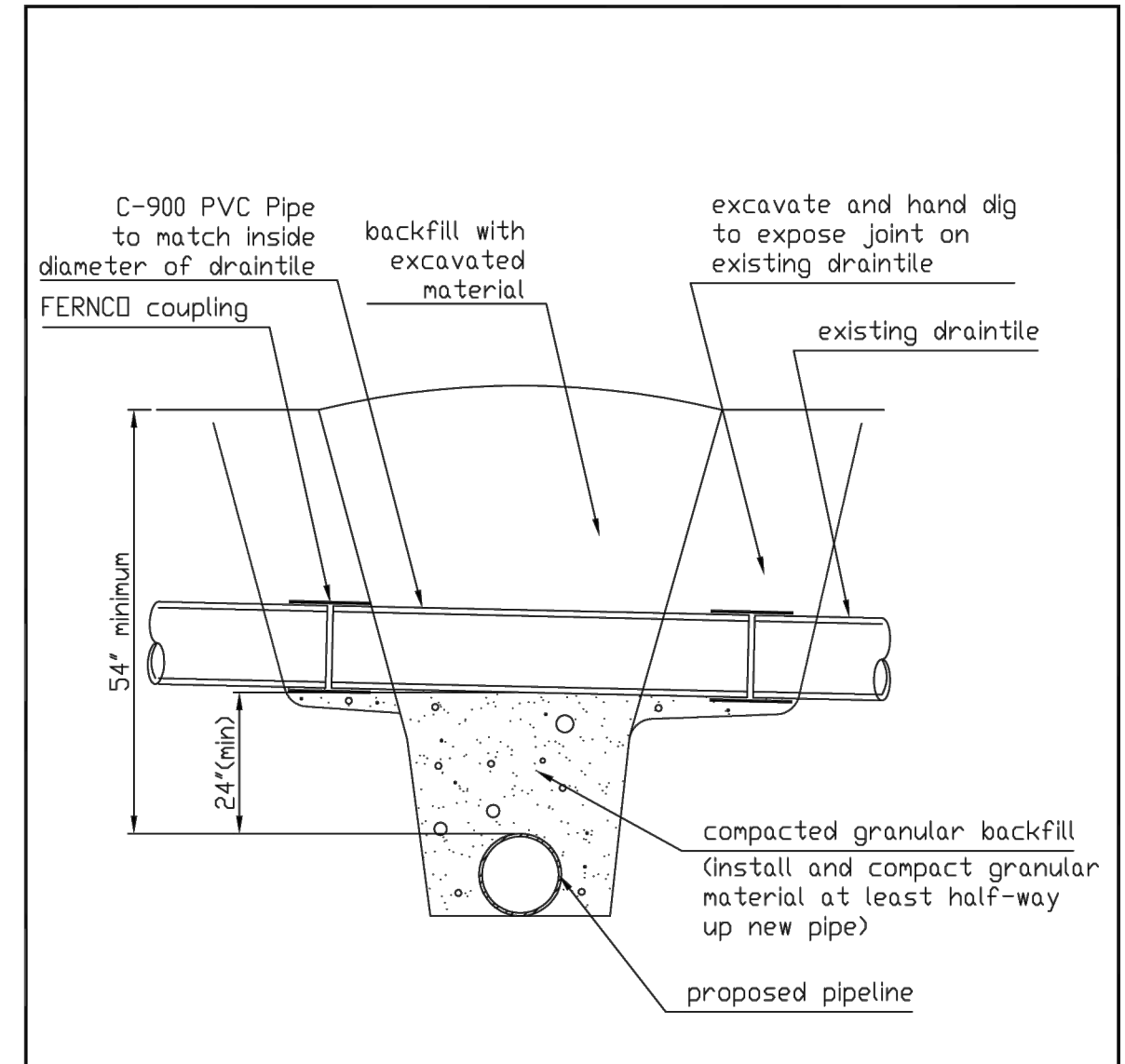
MANHOLE FRAME ADJUSTING RING AND GASKET DETAIL
NOT TO SCALE



STANDARD MANHOLE BENCHES
NOT TO SCALE



ASPHALT PAVEMENT SECTION
NOT TO SCALE



CROSSING DETAIL

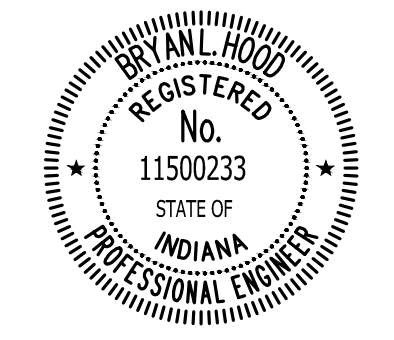
CITY OF GREENFIELD
STANDARD DETAIL
Hancock County Legal Court Drain tile crossing
Dwn.By: *D.Rodgers* Origin Date: 01/05/99
Des. No: ST-116-01 Rev. Date: 12/10/07

PLOT DATE: 5/30/2025 9:51 AM EDITED BY: PRAWINSKI DRAWING FILE: P:\2025\00749\0 DRAWINGS\UTILITY-INFRASTRUCTURE\202500749\U.DT.SD.DWG



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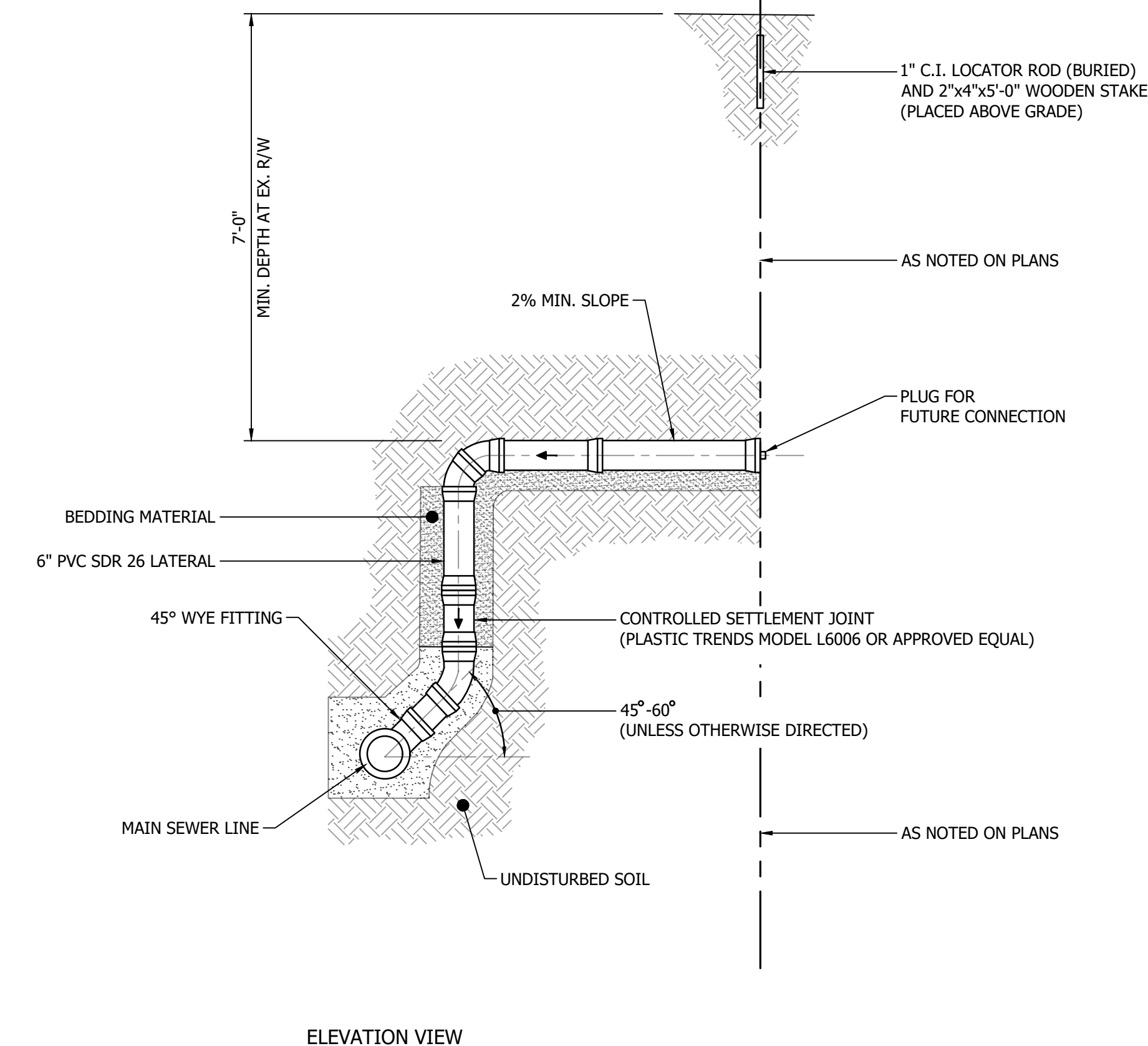
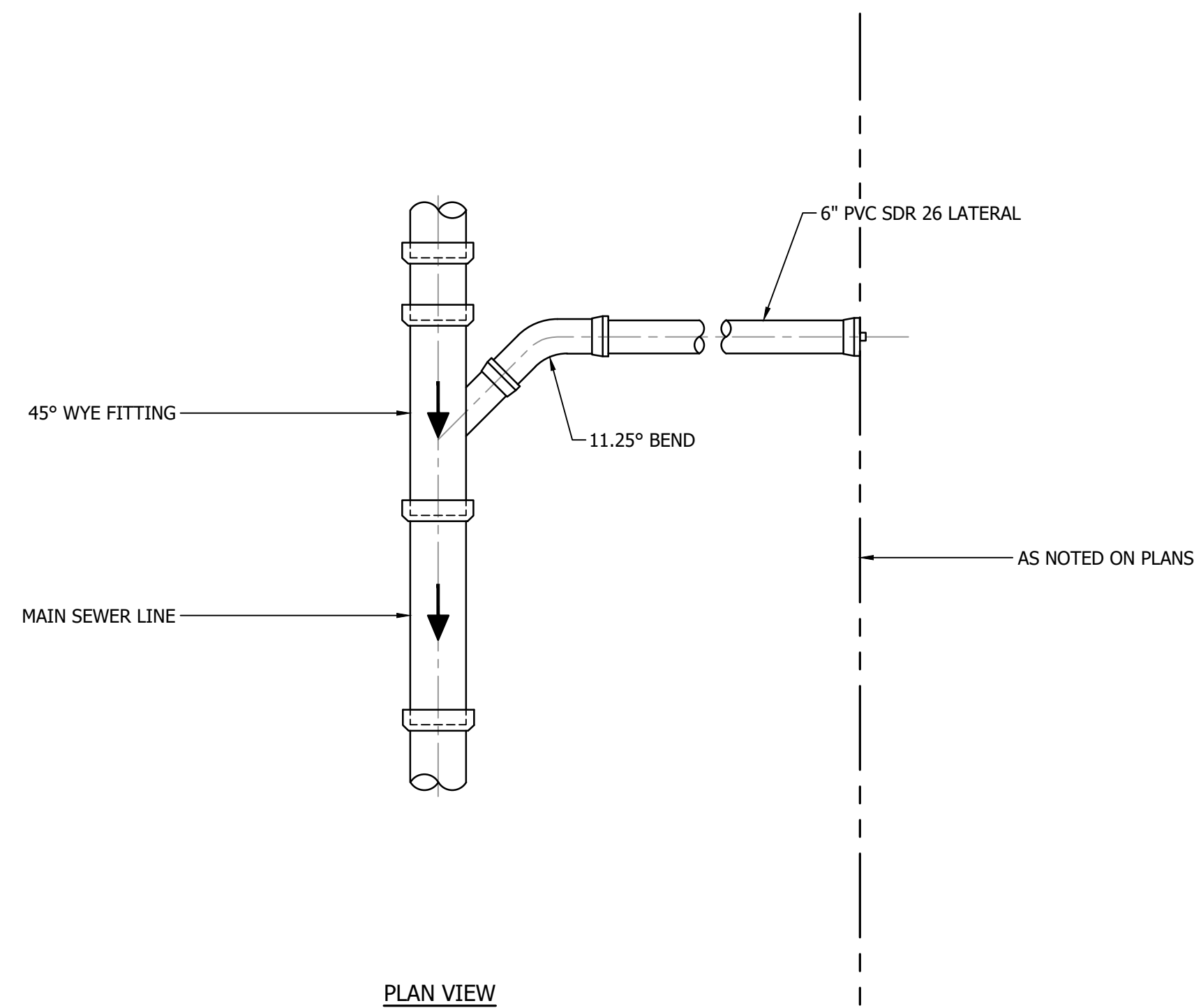
Bryan L. Hancock 5/15/2025
CERTIFIED BY

ISSUANCE INDEX	
DATE:	5/15/2025
PROJECT PHASE:	100% PLANS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1	THIS SHEET REPLACES PREVIOUSLY DATED SHEET: 5/15/2025	5/30/25

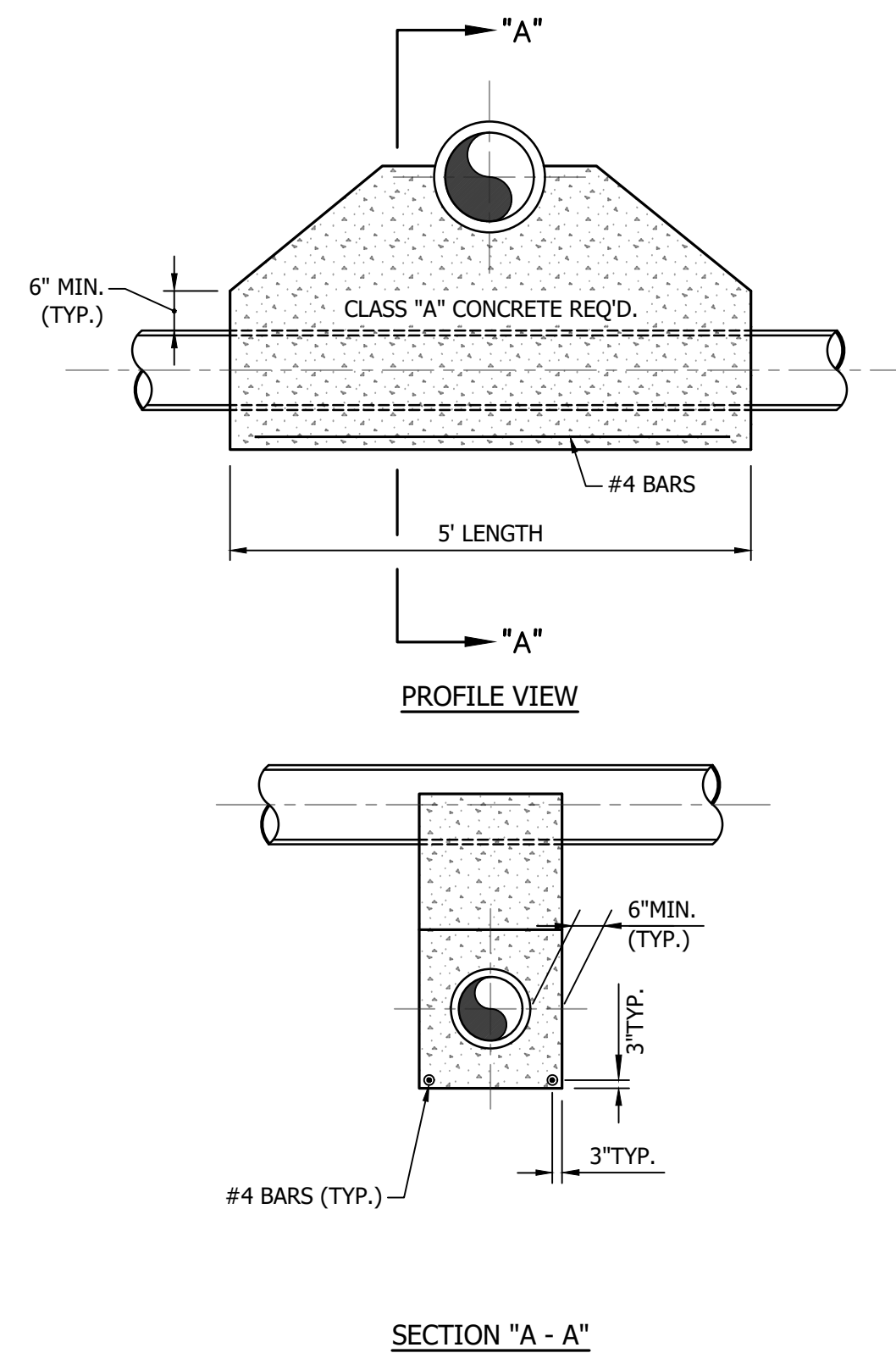
Project Number 2025.00749

PLOT DATE: 5/30/2025 9:51 AM EDITED BY: P TRAWNSKI DRAWING FILE: P:\2025\00749\0 DRAWINGS\UTILITY INFRASTRUCTURE\202500749\U.I.D.T.SD.DWG



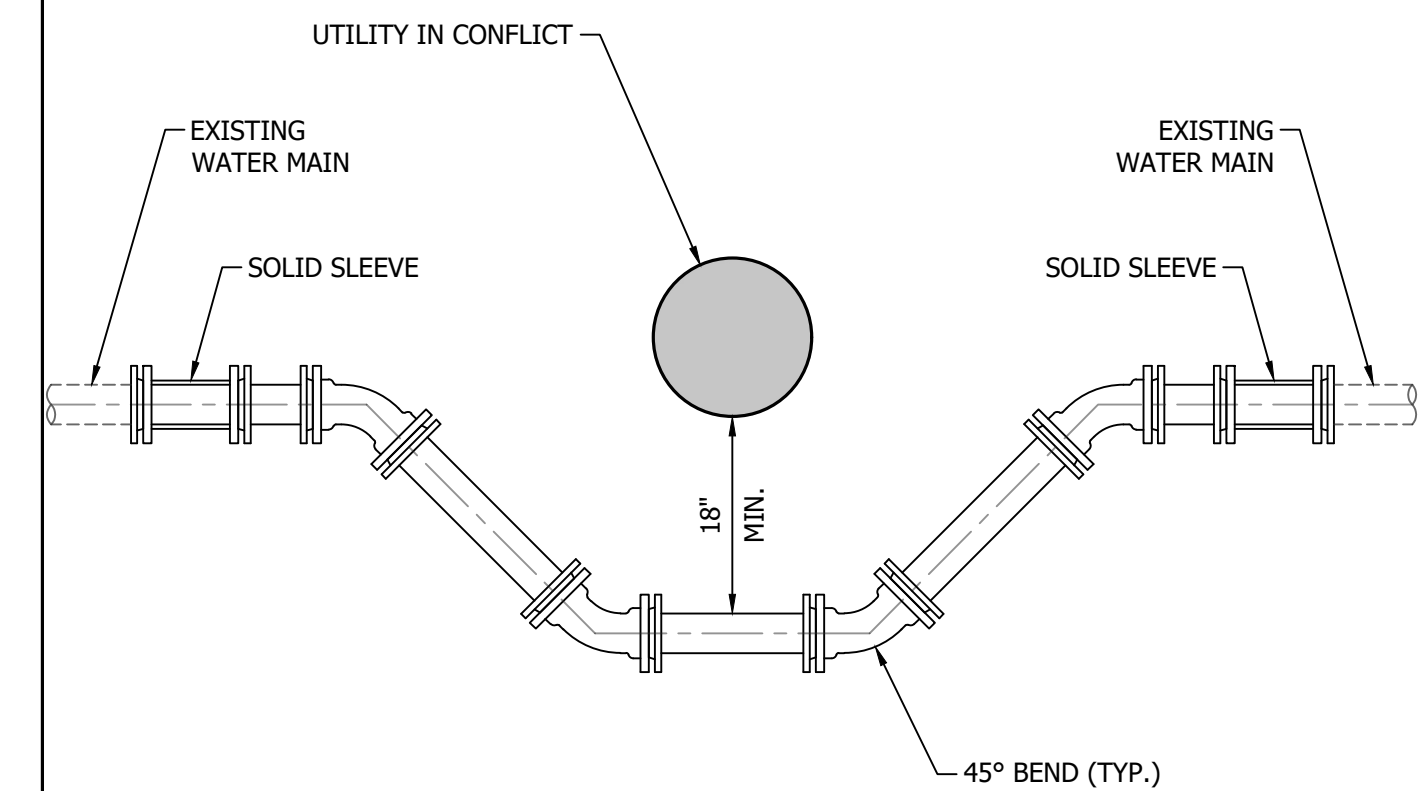
- NOTES:**
- SANITARY SEWER LATERAL PIPE MATERIAL SHALL BE PVC SDR 26.
 - SERVICE LATERALS MAY BE DIRECTIONALLY DRILLED ACROSS STREET USING INSERTA-LOK PVC OR APPROVED EQUAL.

SERVICE CONNECTION DETAIL
(DEEP SEWERS 15' DEEP OR GREATER)
NOT TO SCALE



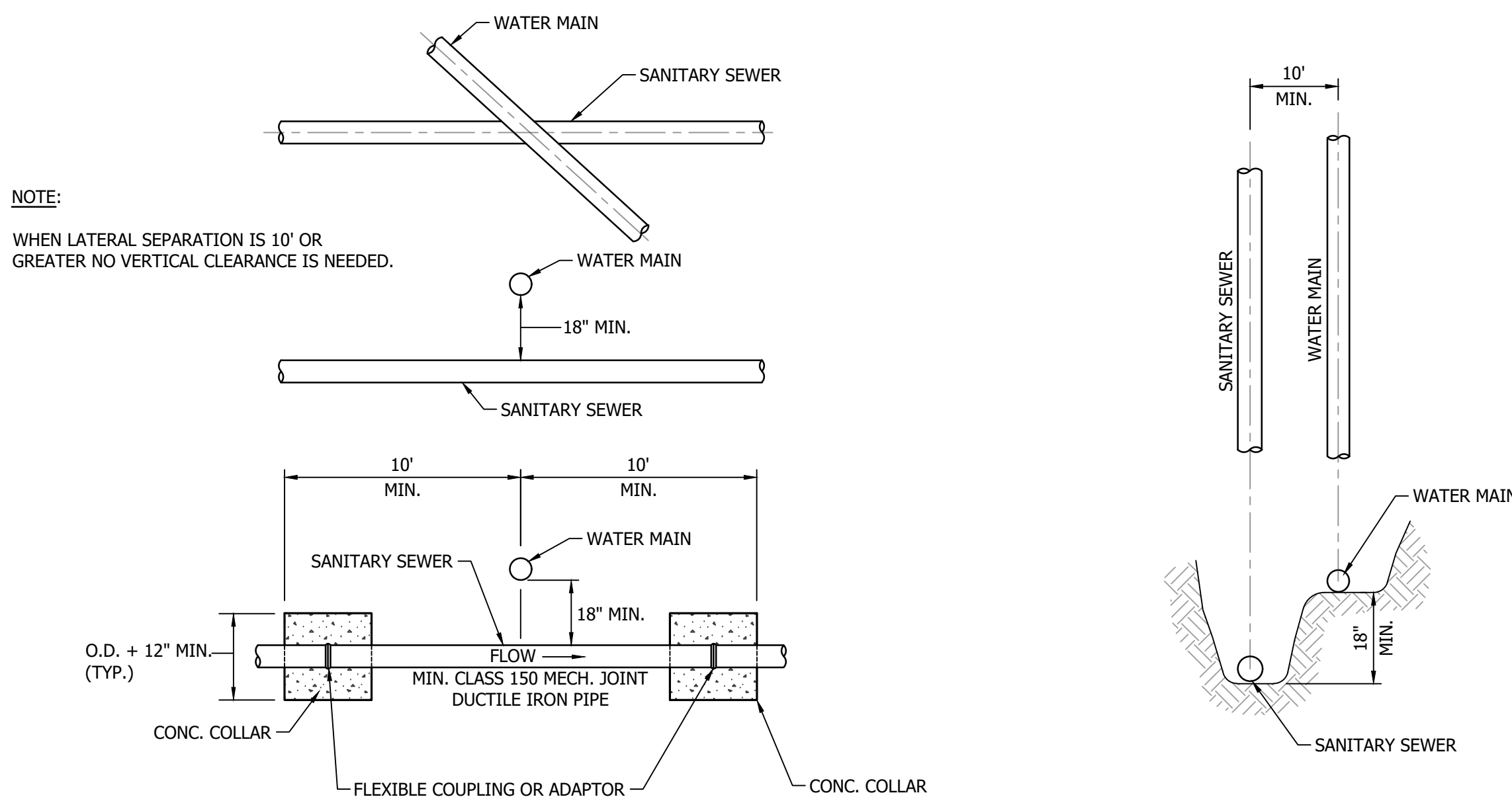
NOTE:
TO BE USED WHEN CLEARANCE BETWEEN PIPES IS 12" OR LESS, OR WHERE NOTED ON DRAWINGS.

CONCRETE SADDLE DETAIL
NOT TO SCALE



NOTE:
USE RESTRAINED JOINTS UNLESS OTHERWISE SHOWN OR SPECIFIED.

WATER MAIN ADJUSTMENT DETAIL
NOT TO SCALE



NOTE:
WHEN LATERAL SEPARATION IS 10' OR GREATER NO VERTICAL CLEARANCE IS NEEDED.

CROSSOVER & SEPERATION NOTES:

- WHEN LATERAL SEPARATION IS 10' OR GREATER NO VERTICAL CLEARANCE IS NEEDED.
- WHEN SANITARY SEWER CROSSES WATER MAIN, THE CROSSING MUST BE A MINIMUM OF 45° MEASURED FROM THE CENTERLINES OF THE SEWER AND WATER MAIN WITH A MINIMUM OF 18-INCHES VERTICALLY BETWEEN THE PIPES. THE VERTICAL SEPERATION SHALL BE MAINTAINED FOR 10 FEET EACH WAY OF THE CROSSING.
- IF THE CROSSING ANGLE IS LESS THAN 45° OR THE DISTANCE BETWEEN PARALLEL MAINS IS LESS THAN 10 FEET, THE SANITARY SEWER SHALL BE TESTED AS IF IT IS A WATER MAIN (327 IAC 8-3.2.17(a)), SHALL BE CONSTRUCTED OF WATER MAIN MATERIAL, DUCTILE IRON, OR PVC WITH A SDR OF 21, THE PIPES SHALL NOT TOUCH, SEWER JOINTS SHALL BE A COMPRESSION TYPE JOINT PLACED EQUIDISTANT FROM THE WATER MAIN, WATER AND SEWER SHALL BE ON SEPARATE TRENCH SHELVES.
- MANHOLES SHALL BE A MINIMUM OF 8 FEET (OUTSIDE TO OUTSIDE) FROM A WATER MAIN.

MIN. CROSSOVER AND SEPERATION REQUIREMENTS FOR WATER MAINS AND SANITARY SEWERS
NOT TO SCALE

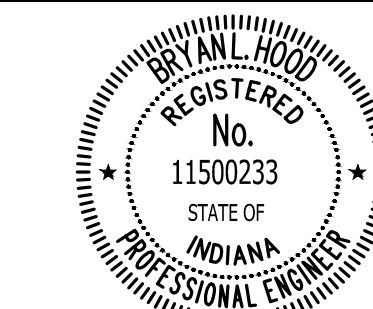
CITY OF GREENFIELD



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**FRANKLIN STREET
SANITARY SEWER EXT.**

Greenfield, Indiana



Bryan L. Hood 5/15/2025
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ISSUANCE INDEX	
DATE:	5/15/2025
PROJECT PHASE:	100% PLANS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
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Project Number 2025.00749

STANDARD DETAILS

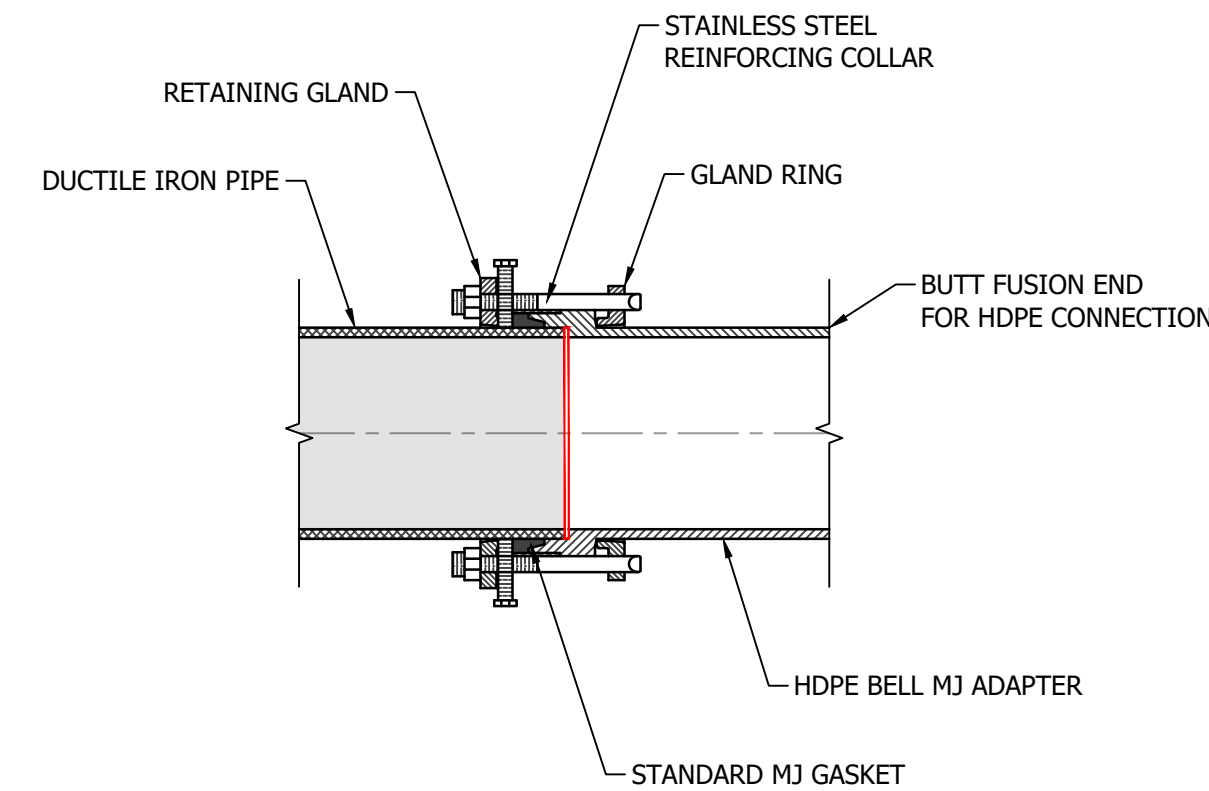
C-302

PIPE SIZE (INCHES)	LENGTH OF PIPE (FEET) WITH RESTRAINED JOINTS ON EACH SIDE OF FITTING					
	FITTINGS					
	TEE * BRANCH	90° BEND	45° BEND	22.5° BEND	11.25° BEND	VALES & DEAD DENDS
4	1	15	6	3	2	53
6	9	22	9	4	2	74
8	18	27	11	6	3	97
10	25	33	14	7	4	117
12	33	39	16	8	4	136
14	41	44	18	9	5	158
16	48	50	21	10	5	179
18	56	55	23	11	6	199
20	63	61	25	12	6	218
24	77	71	29	14	7	256
30	102	86	36	17	8	309
36	152	100	41	20	10	362

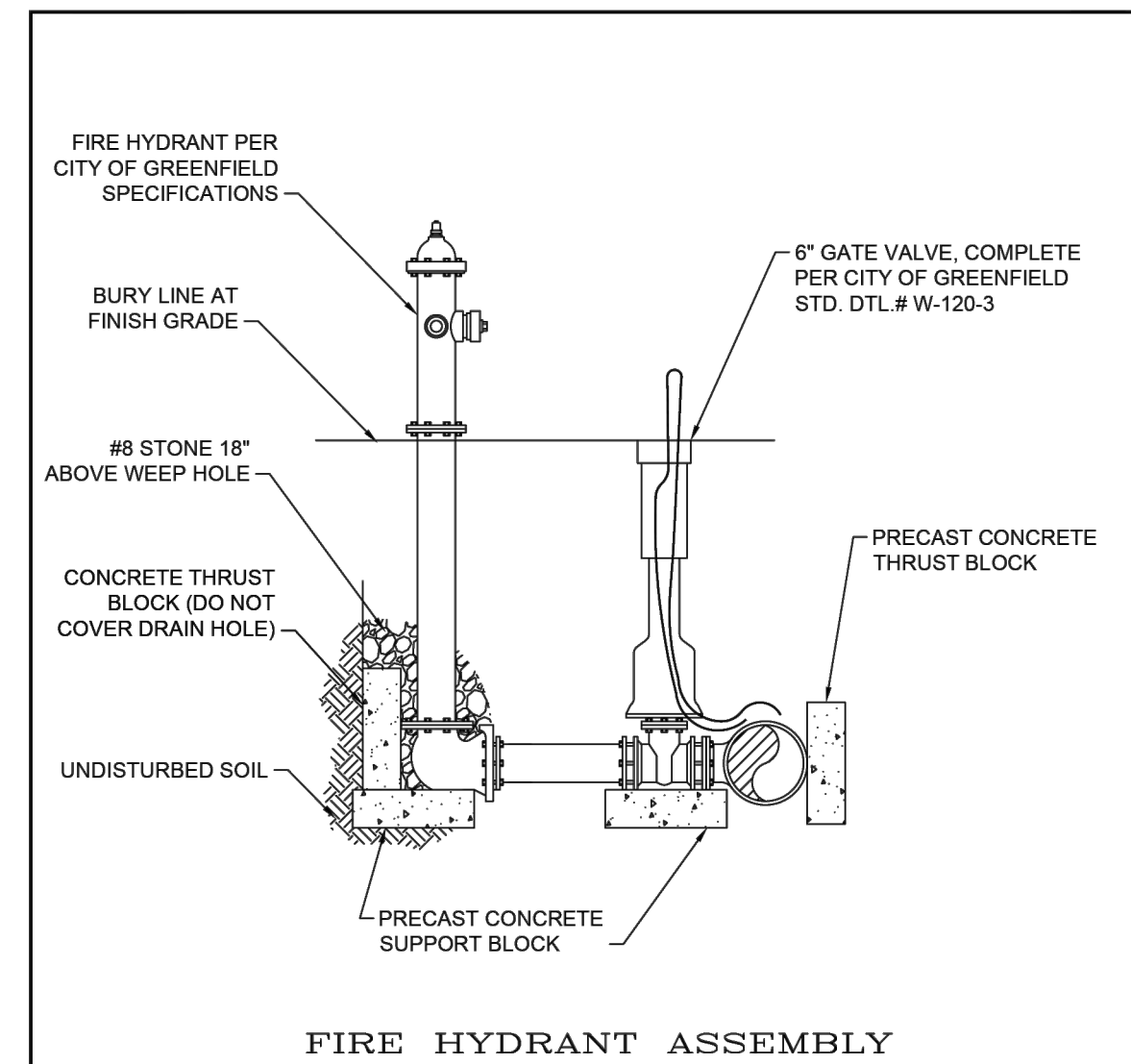
ADDITIONAL INFORMATION:

1. VALVE RESTRAINED JOINT LENGTHS SHALL BE TREATED AS A DEAD END.
2. * ONE FULL LENGTH (18') OF PIPE ON BOTH SIDES OF BRANCH TO BE RESTRAINED.
3. BENDS LISTED ABOVE ARE HORIZONTAL BENDS. TEST PRESSURE BASED ON 150 PSI.
4. CALCULATIONS ABOVE BASED ON POLYWRAPPED DUCTILE IRON PIPE.

RESTRAINT JOINT TABLE
NOT TO SCALE



D.I./HDPE MJ ADAPTER
NOT TO SCALE

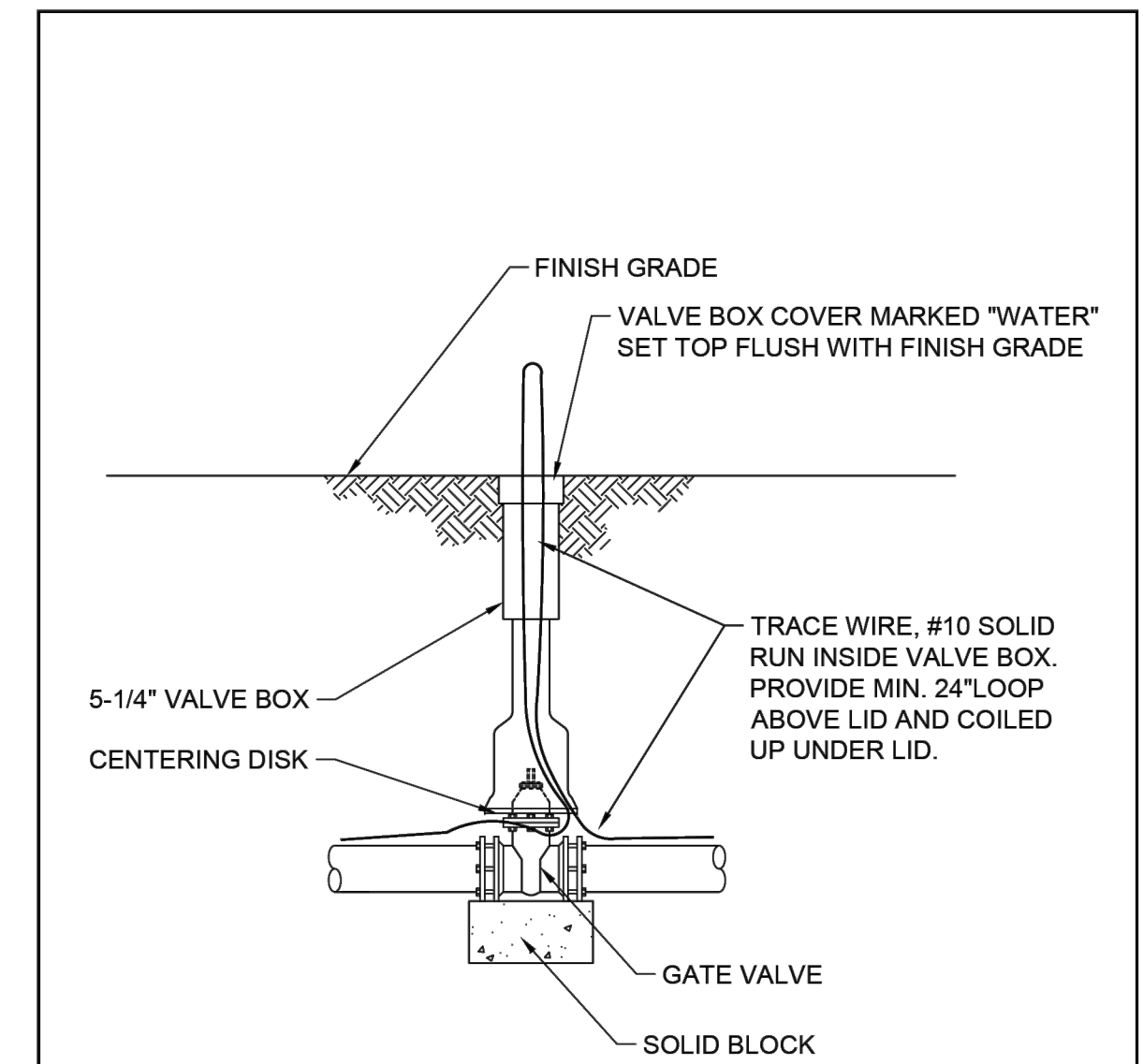


FIRE HYDRANT ASSEMBLY

- NOTES:
1. Install Joint Restraint System per Project Specifications.
 2. Install Thrust Blocking per City of Greenfield Standard Detail #V-122-01.
 3. Install Hydrant with nozzle facing the street.

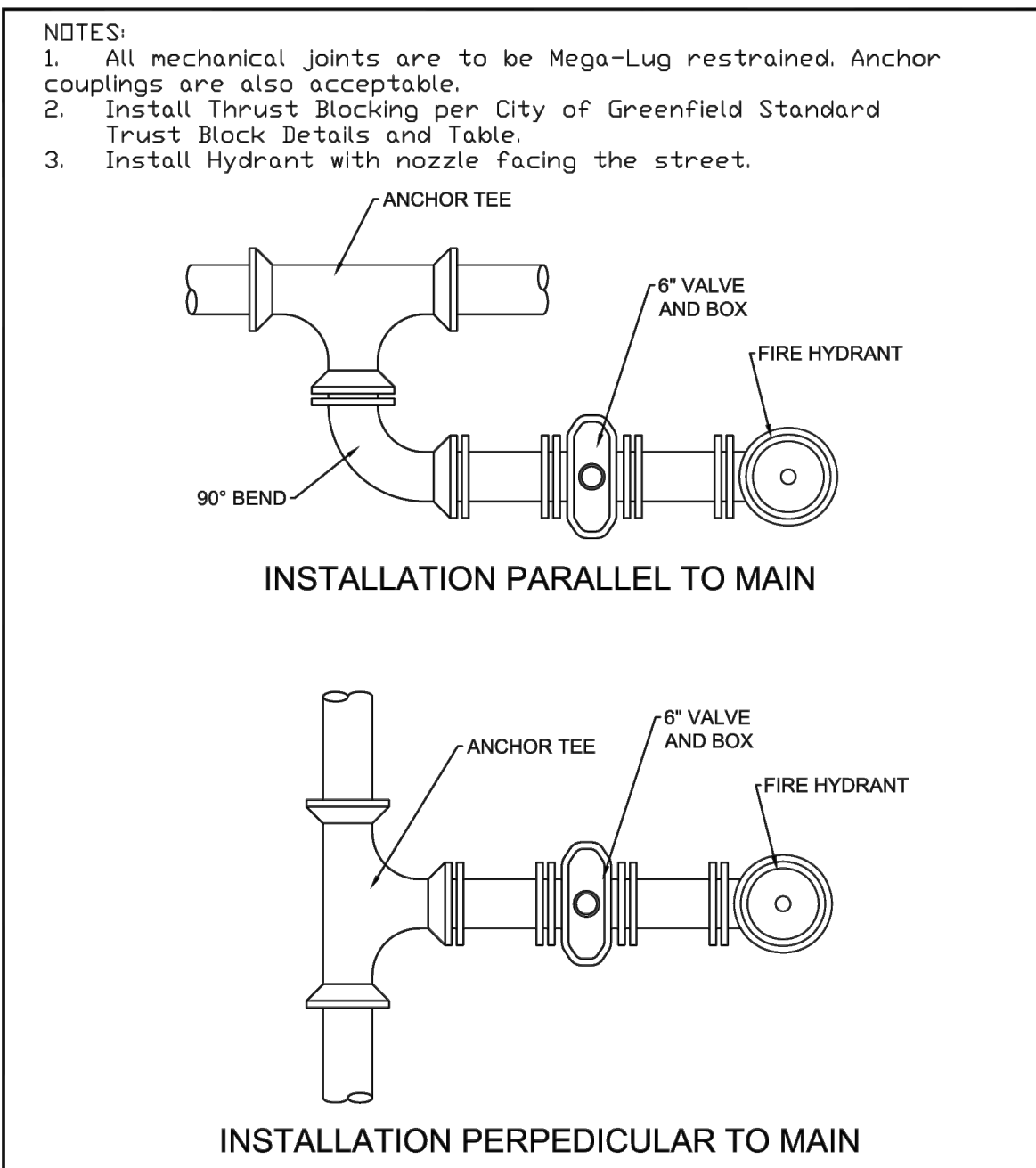
CITY OF GREENFIELD
STANDARD DETAIL
FIRE HYDRANT

Dwn.By: *D.Rodgers* Origin Date: 11/30/07
Des. No: W-121-05 Rev. Date: 02/24/2021



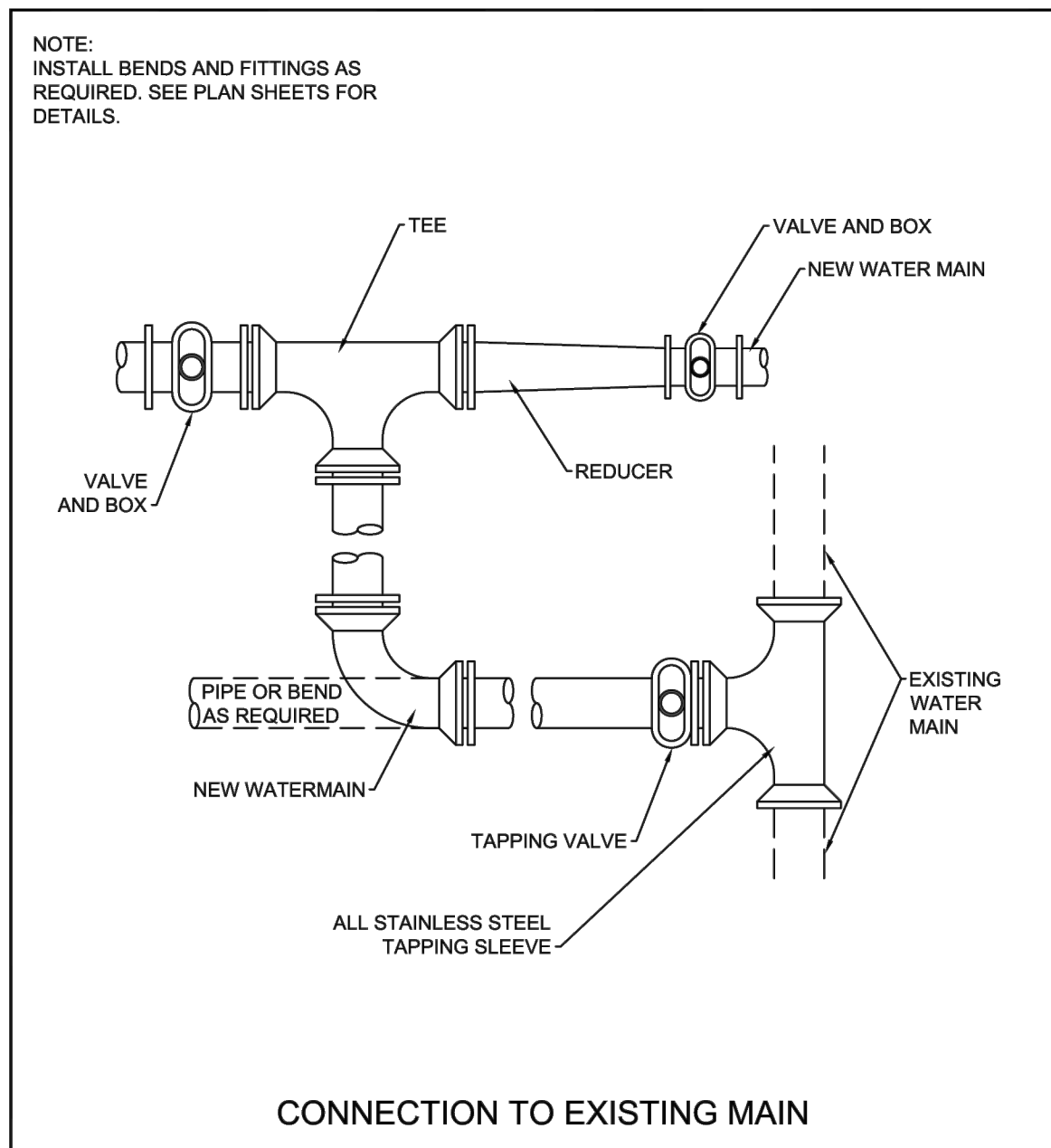
CITY OF GREENFIELD
STANDARD DETAIL
TYPICAL WATER VALVE

Dwn.By: *D.Rodgers* Origin Date: 11/30/2007
Des. No: W-120-04 Rev. Date: 02/24/2021



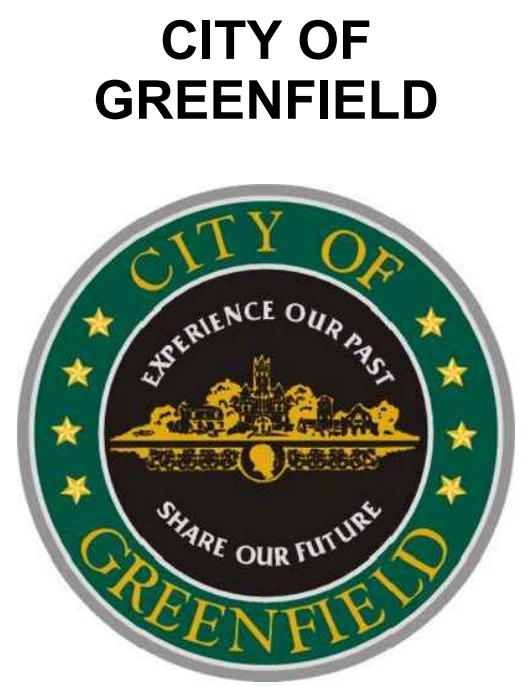
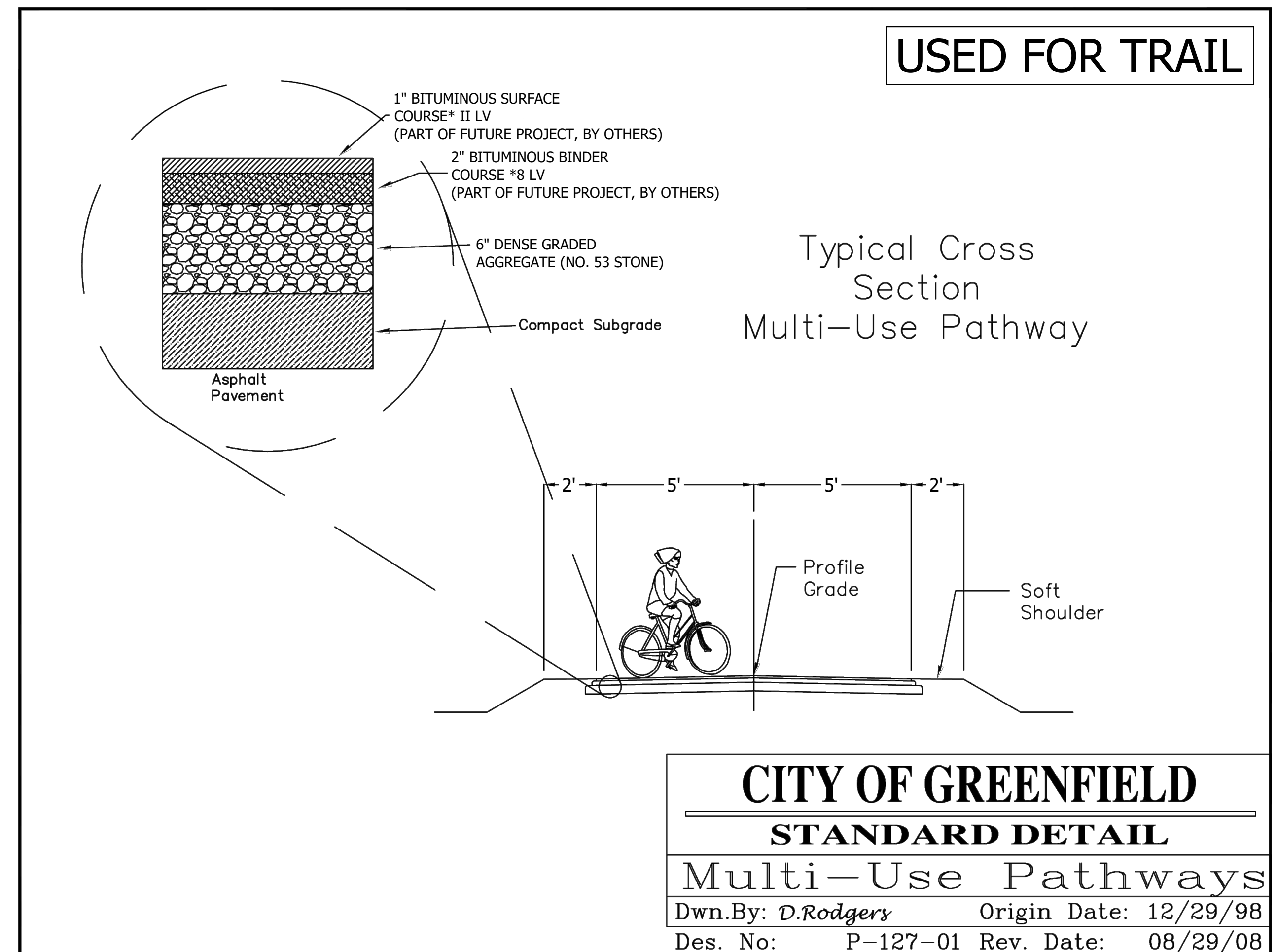
CITY OF GREENFIELD
STANDARD DETAIL
TYPICAL HYDRANT INSTALLATIONS

Dwn.By: *D.Rodgers* Origin Date: 12/29/98
Des. No: W-123-02 Rev. Date: 06/10/15



CITY OF GREENFIELD
STANDARD DETAIL
TYPICAL CONNECTION TO MAIN

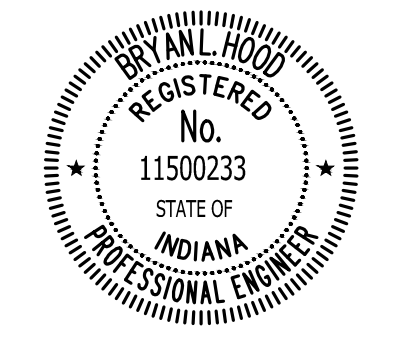
Dwn.By: *D.Rodgers* Origin Date: 6/23/03
Des. No: W-125-03 Rev. Date: 01/21/16



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Greenfield, Indiana



Bryan L. Hood 5/15/2025
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ISSUANCE INDEX	
DATE:	5/15/2025
PROJECT PHASE:	100% PLANS

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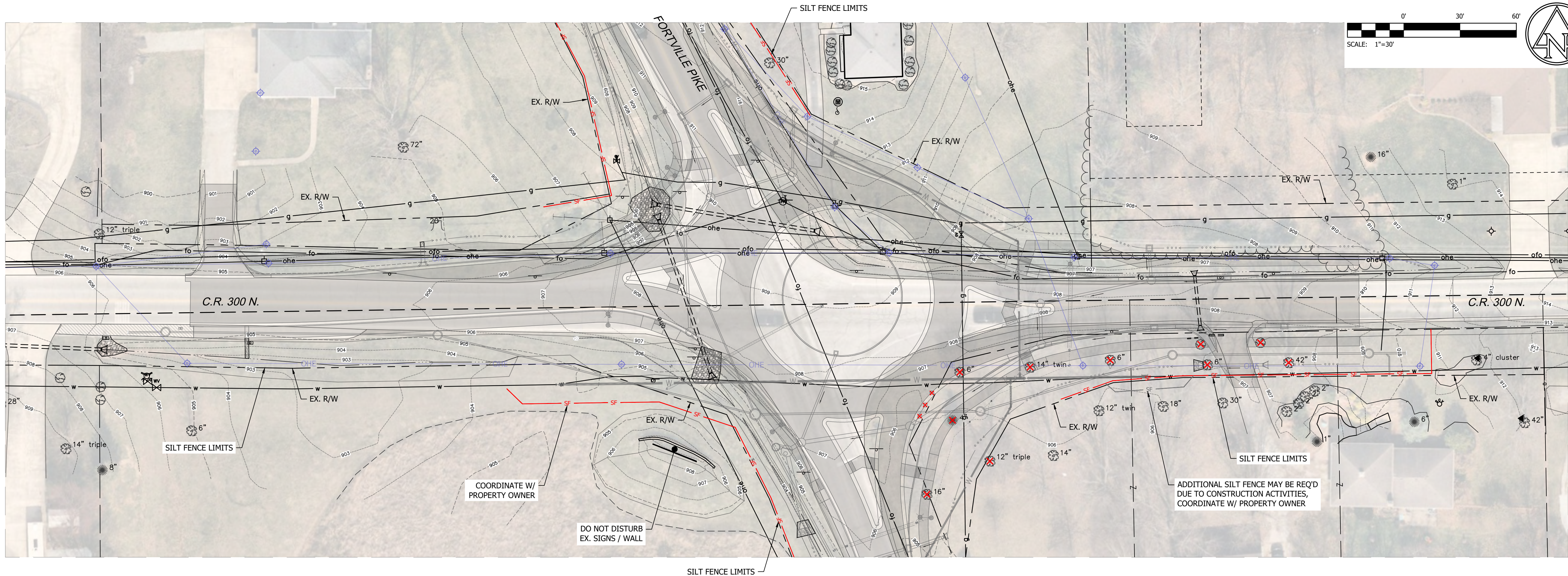
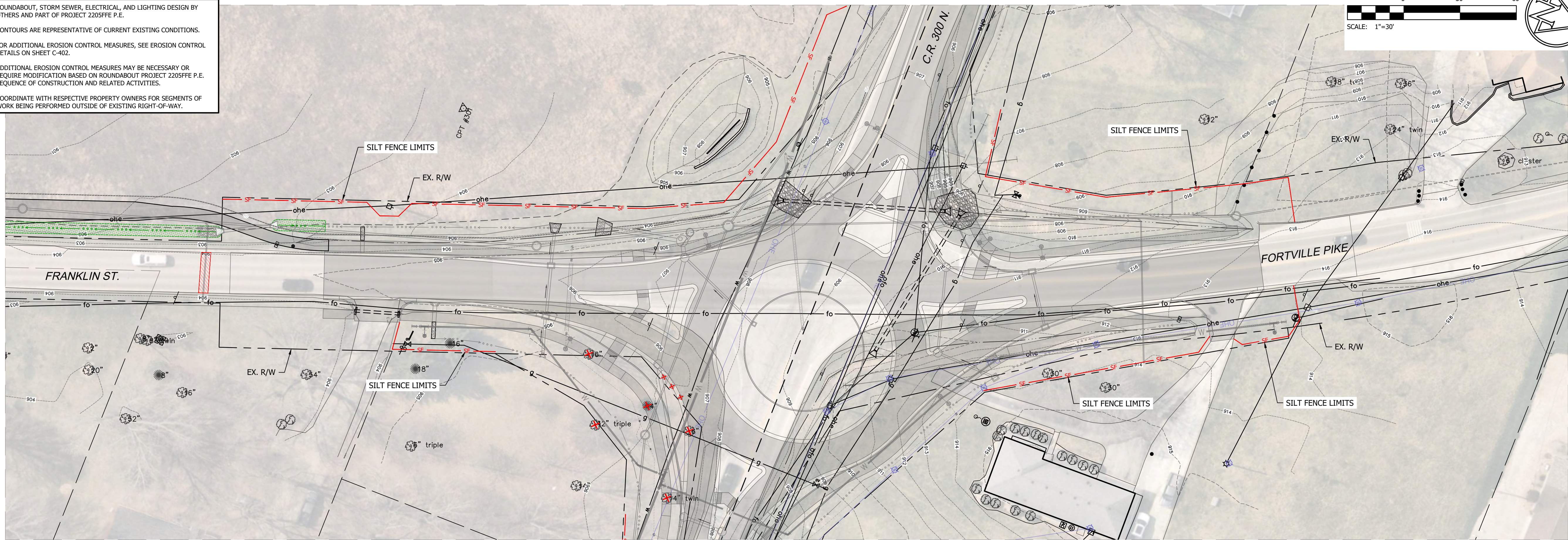
Project Number 2025.00749

STANDARD DETAILS

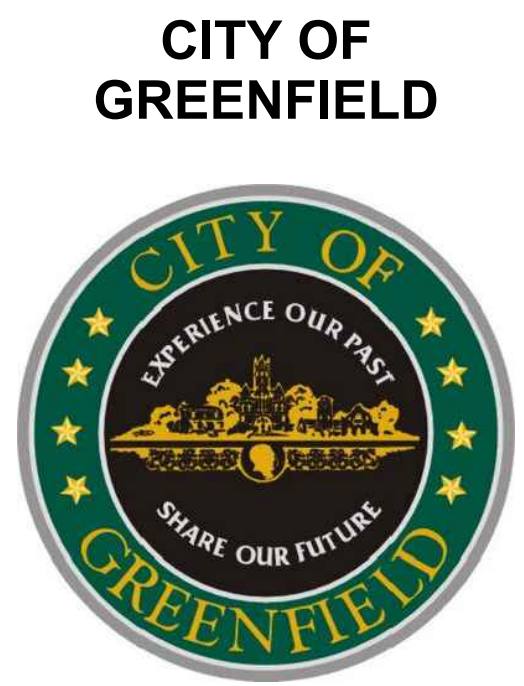
C-303

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- GENERAL NOTES:**
1. ROUNDABOUT, STORM SEWER, ELECTRICAL, AND LIGHTING DESIGN BY OTHERS AND PART OF PROJECT 2205FFE P.E.
 2. CONTOURS ARE REPRESENTATIVE OF CURRENT EXISTING CONDITIONS.
 3. FOR ADDITIONAL EROSION CONTROL MEASURES, SEE EROSION CONTROL DETAILS ON SHEET C-402.
 4. ADDITIONAL EROSION CONTROL MEASURES MAY BE NECESSARY OR REQUIRE MODIFICATION BASED ON ROUNDABOUT PROJECT 2205FFE P.E. SEQUENCE OF CONSTRUCTION AND RELATED ACTIVITIES.
 5. COORDINATE WITH RESPECTIVE PROPERTY OWNERS FOR SEGMENTS OF WORK BEING PERFORMED OUTSIDE OF EXISTING RIGHT-OF-WAY.



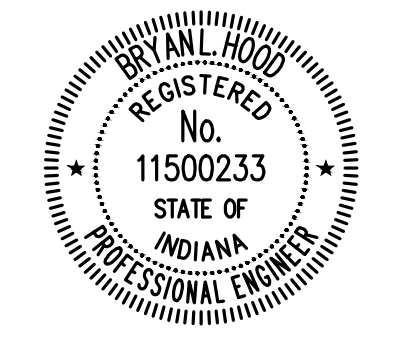
PLOT DATE: 5/30/2025 9:51 AM EDITED BY: PRAMINSKI DRAWING FILE: P:\2025\00749\0 - DRAWINGS\UTILITY INFRASTRUCTURE\202500749.UJ.EC.DWG



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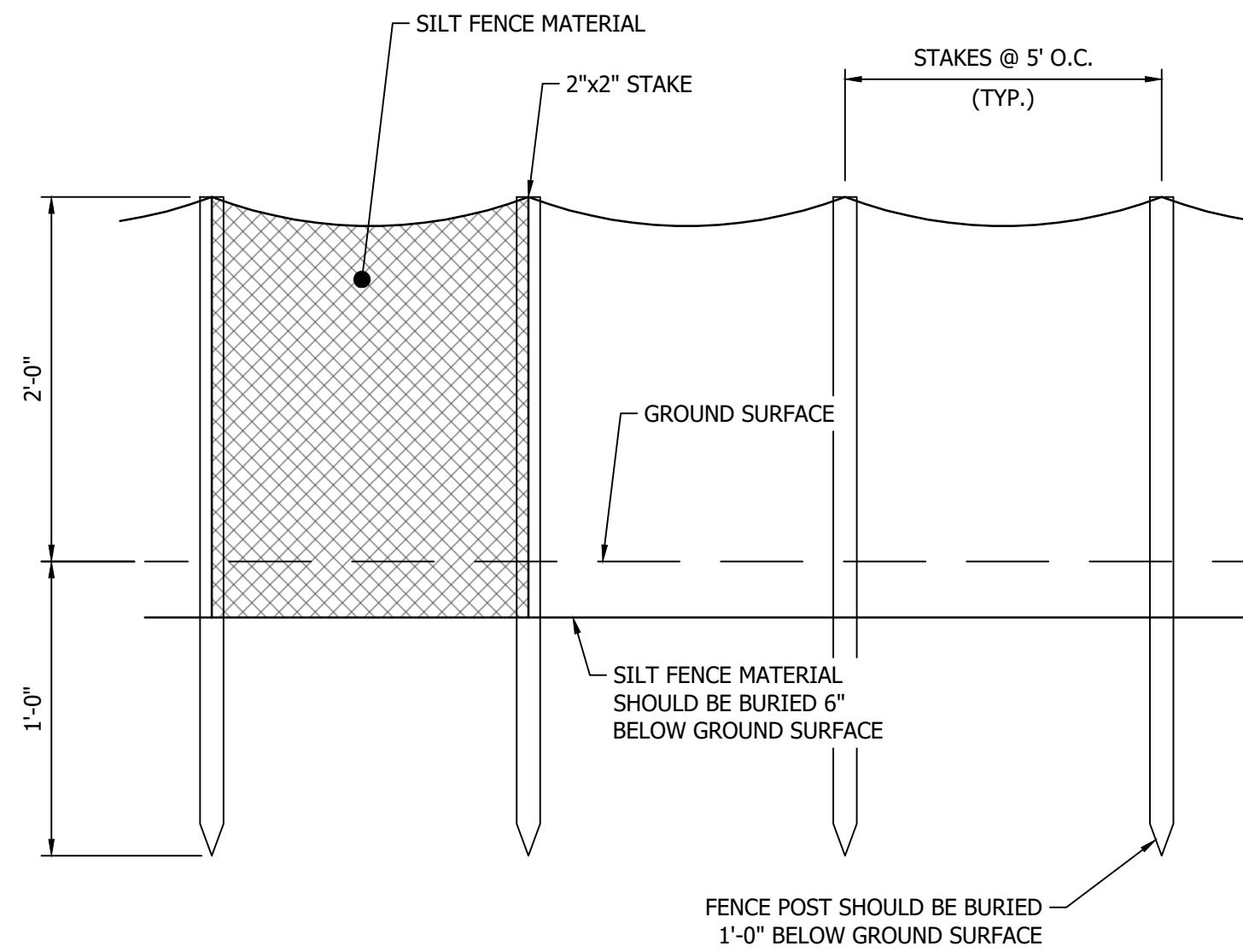
ISSUANCE INDEX	
DATE:	5/15/2025
PROJECT PHASE:	100% PLANS

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NO.	DESCRIPTION	DATE
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Project Number 2025.00749

EROSION CONTROL PLAN
C-401

PLOT DATE: 5/30/2025 9:51 AM EDITED BY: PTRAWINSKI DRAWING FILE: P:\2025\00749\DRAWINGS\UTILITY INFRASTRUCTURE\202500749\UI.DT.EC.DWG

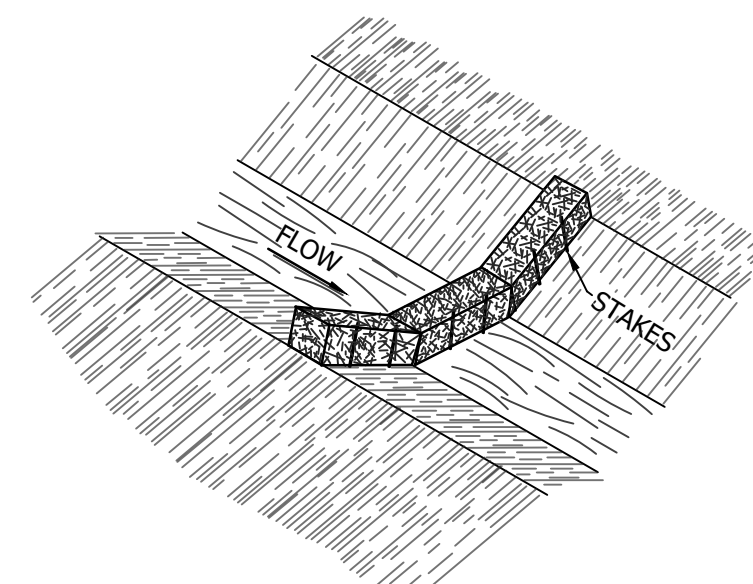


SILT FENCE

- SILT FENCE SHALL BE A MACHINE PRODUCED, NON-WOVEN GEOTEXTILE OF 100% POLYPROPYLENE MEETING THE PHYSICAL PROPERTIES BELOW.
- ALL STAKES SHALL BE 2"x2" HARDWOOD 3/8" TALL WITH 24" TALL LATH STAPLED TO STAKES OVER FABRIC AS REINFORCEMENT.
- ALL SILT FENCE SHALL BE PREFABRICATED BY THE SUPPLIER. NO FIELD ASSEMBLY WILL BE ACCEPTED.

FABRIC WEIGHT	4 OZ./SYD.
GRAB STRENGTH	WARP 125 LBS.
ELONGATION	WARP 50%
TRAPEZOIDAL TEAR STRENGTH	50 LBS.
BURST STRENGTH	200 PSI
UV RESISTANCE	> 70%
A.O.S.	50-80
SLURRY FLOW RATE	225 GPM/SQ. FT.
SEDIMENT RETENTION	75%

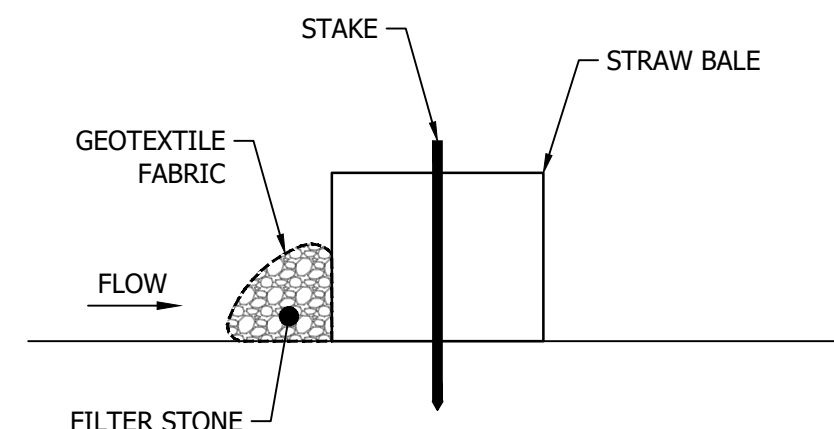
SILT FENCE DETAIL
NOT TO SCALE



NOTE:

STRAW BALES SHALL BE PLACED AND MAINTAINED IN SWALE TO PREVENT SILT AND DEBRIS FROM ENTERING INTO DOWNSTREAM DRAINAGE FACILITIES DURING ALL CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL ADEQUATE VEGETATION IS ACHIEVED WITHIN THE SITE. SUCH STRAW BALES SHALL BE FIRMLY SECURED TO THE GROUND WITH FENCING.

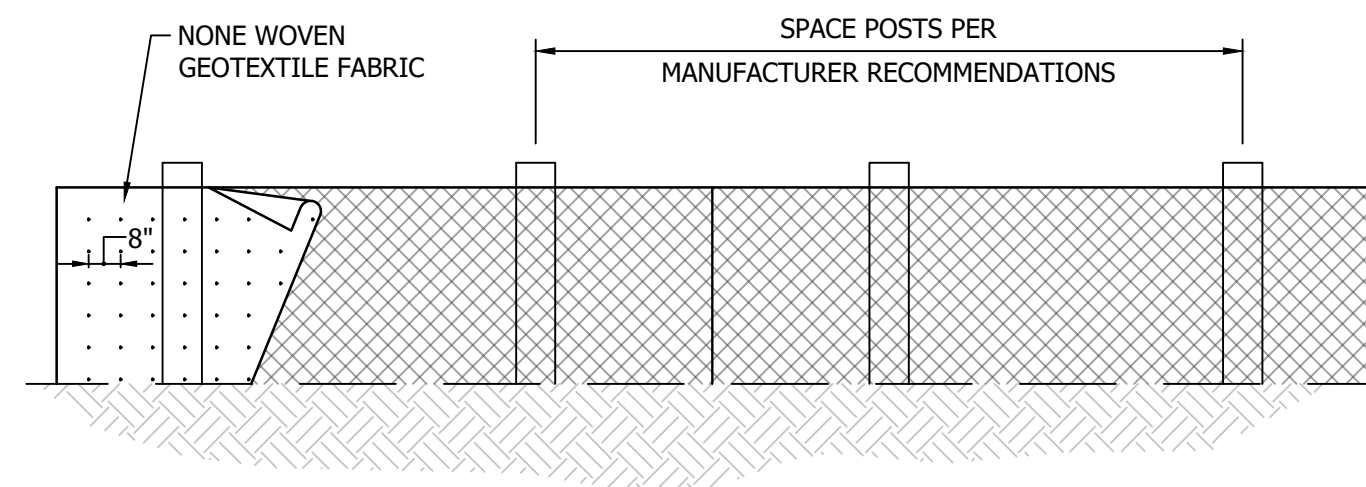
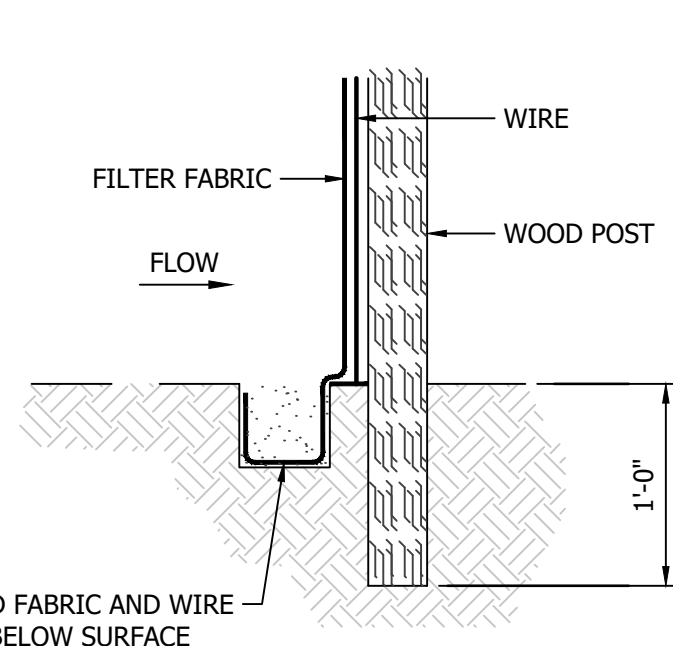
DRAINAGE SWALE STRAW BALE CHECK DAM
NOT TO SCALE



NOTE:

FILTER TUBE/SOCK MAY SUBSTITUTE FOR WRAPPED FILTER STONE AND GEOTEXTILE.

SILT FENCE CONSTRUCTION
NOT TO SCALE



TEMPORARY SEEDING

TEMPORARY SEEDING SPECIFICATIONS			
SEED SPECIES	RATE PER ACRE	PLANTING DEPTH	OPTIMUM DATES
WHEAT OR RYE		1" TO 1 1/2"	9/15 - 10/30
SPRING OATS	100 LBS	1"	3/1 - 4/15
ANNUAL RYEGRASS	40 LBS	1/2"	3/1 - 5/1 8/1 - 9/1
GERMAN MILLET	40 LBS	1" TO 2"	5/1 - 6/1
SUDANGRASS	35 LBS	1" TO 2"	5/1 - 7/30
BUCKWHEAT	60 LBS	1" TO 2"	4/15 - 6/1
CORN (BROADCAST)	300 LBS	1" TO 2"	5/11 - 8/10
SORGHUM	35 LBS	1" TO 2"	5/1 - 7/15

SEEDING NOTES

- APPLY SEED UNIFORMLY WITH A DRILL OR CULTIPACKER SEEDER OR BY BROADCASTING. PLANT OR COVER SEED TO THE DEPTH SHOWN IN TABLE ABOVE.
- IF DRILLING OR BROADCASTING THE SEED, ENSURE GOOD SEED-TO-SOIL CONTACT BY FIRING THE SEEDBED WITH A ROLLER OR CULTIPACKER AFTER COMPLETING SEEDING OPERATIONS.
- DAILY SEEDING WHEN THE SOIL IS MOIST IS USUALLY MOST EFFECTIVE.
- APPLY MULCH AND ANCHOR IT IN PLACE.

MAINTENANCE

- INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- CHECK FOR EROSION OR MOVEMENT OF MULCH AND REPAIR IMMEDIATELY.
- MONITOR FOR EROSION DAMAGE AND ADEQUATE COVER (80 PERCENT DENSITY); RESEED, FERTILIZE, AND APPLY MULCH WHERE NECESSARY.
- IF NITROGEN DEFICIENCY IS APPARENT, TOP-DRESS FALL SEEDED WHEAT OR RYE SEEDING WITH 50 POUNDS PER ACRE OF NITROGEN IN FEBRUARY OR MARCH.
- APPLY SOIL AMENDMENTS AS RECOMMENDED BY THE SOIL TEST AND WORK INTO THE UPPER TWO TO FOUR INCHES OF SOIL. IF TESTING IS NOT DONE, APPLY 400 TO 600 POUNDS PER ACRE OF 12-12-12 ANALYSIS FERTILIZER, OR EQUIVALENT.

PERMANENT SEEDING

PERMANENT SEEDING RECOMMENDATIONS OPEN LOW-MAINTENANCE AREAS (REMAINING IDLE MORE THAN SIX MONTHS)		
SEED MIXTURES	RATE PER ACRE PURE LIVE SEED	OPTIMUM SOIL pH
PERMANENT RYEGRASS (WHITE CLOVER)	70 LBS 2 LBS	5.6 - 7.0
PERENNIAL RYEGRASS (TALL FESCUE)	70 LBS 50 LBS	5.6 - 7.0
TALL FESCUE (WHITE CLOVER)	70 LBS 2 LBS	5.5 - 7.5

PERMANENT SEEDING RECOMMENDATIONS LAWNS AND HIGH-MAINTENANCE AREAS		
SEED MIXTURES	RATE PER ACRE PURE LIVE SEED	OPTIMUM SOIL pH
BLUEGRASS	35 LBS 20 LBS	5.5 - 7.0
PERENNIAL RYEGRASS (TURF TYPE)	50 LBS 2 LBS	5.5 - 7.5
TALL FESCUE (BLUEGRASS-TURF TYPE)	50 LBS 20 LBS	5.5 - 7.5

PERMANENT SEEDING RECOMMENDATIONS STEEP BANKS AND CUTS, LOW-MAINTENANCE AREAS (NOT MOWED)		
SEED MIXTURES	RATE PER ACRE PURE LIVE SEED	OPTIMUM SOIL pH
SMOOTH BROME GRASS (RED CLOVER)	35 LBS 20 LBS	5.5 - 7.0
TALL FESCUE (WHITE CLOVER)	50 LBS 2 LBS	5.5 - 7.5
TALL FESCUE (RED CLOVER)	50 LBS 20 LBS	5.5 - 7.5
ORCHARD GRASS (WHITE CLOVER) (RED CLOVER)	30 LBS 20 LBS 2 LBS	5.6 - 7.0

PERMANENT SEEDING RECOMMENDATIONS CHANNELS AND AREAS OF CONCENTRATED FLOW		
SEED MIXTURES	RATE PER ACRE PURE LIVE SEED	OPTIMUM SOIL pH
PERENNIAL RYEGRASS (WHITE CLOVER)	35 LBS 20 LBS	5.5 - 7.0
KENTUCKY BLUEGRASS (SMOOTH BROMEGRASS) (SWITCHGRASS) (TIMOTHY) (PERENNIAL RYEGRASS) (WHITE CLOVER)	20 LBS 10 LBS 3 LBS 4 LBS 10 LBS 2 LBS	5.5 - 7.5
TALL FESCUE (WHITE CLOVER)	150 LBS 2 LBS	5.5 - 7.5
TALL FESCUE (PERENNIAL RYEGRASS) (KENTUCKY BLUEGRASS)	150 LBS 20 LBS 20 LBS	5.5 - 7.5

SEEDING NOTES

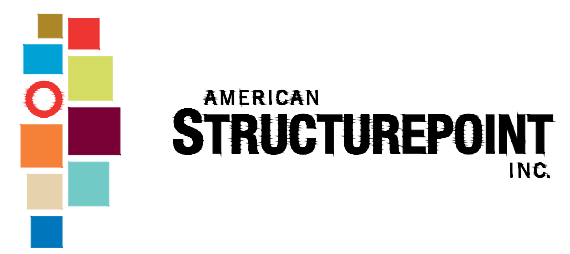
- APPLY SEED UNIFORMLY WITH A DRILL OR CULTIPACKER SEEDER OR BY BROADCASTING. PLANT OR COVER SEED TO A DEPTH OF ONE-FOURTH TO ONE-HALF INCH. IF DRILLING OR BROADCASTING THE SEED, ENSURE GOOD SEED-TO-SOIL CONTACT BY FIRING THE SEEDBED WITH A ROLLER OR CULTIPACKER AFTER COMPLETING SEEDING OPERATIONS. (IF SEEDING IS DONE WITH A HYDROSEEDER, FERTILIZER AND MULCH CAN BE APPLIED WITH THE SEED IN A SLURRY MIXTURE.)
- MULCH ALL SEEDED AREAS, AND USE APPROPRIATE METHODS TO ANCHOR THE MULCH IN PLACE.
- FOR BEST RESULTS: (a) LEGUME SEED SHOULD BE INOCULATED; (b) SEEDING MIXTURES CONTAINING LEGUMES SHOULD PREFERABLY BE SPRING-SEEDED, ALTHOUGH THE GRASS MAY BE FALL-SEEDED AND THE LEGUME FROST-SEEDED.
- AN OAT OR WHEAT COMPANION OR NURSE CROP MAY BE USED WITH ANY OF THE ABOVE PERMANENT SEEDING MIXTURES, AT THE FOLLOWING RATES:
 - SPRING OATS-10 TO 24 LBS PURE LIVE SEED PER ACRE.
 - WHEAT-NO MORE THAN 30 LBS PURE LIVE SEED PER ACRE.

MAINTENANCE

- INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS UNTIL THE VEGETATION IS SUCCESSFULLY ESTABLISHED.
- CHARACTERISTICS OF A SUCCESSFUL STAND INCLUDE VIGOROUS DARK GREEN OR BLuish-GREEN SEEDLINGS WITH A UNIFORM VEGETATIVE COVER DENSITY OF 90 PERCENT OR MORE.
- CHECK FOR EROSION OR MOVEMENT OF MULCH.
- REPAIR DAMAGED, BARE, GULLIED, OR SPARSELY VEGETATED AREAS AND THEN FERTILIZE, RESEED, AND APPLY AND ANCHOR MULCH.
- IF PLANT COVER IS SPARSE OR PATCHY, EVALUATE THE PLANT MATERIALS CHOSEN, SOIL FERTILITY, MOISTURE CONDITION, AND MULCH APPLICATION; REPAIR AFFECTED AREAS EITHER BY OVERSEEDING OR PREPARING A NEW SEEDBED AND RESEEDING. APPLY AND ANCHOR MULCH ON THE NEWLY SEEDED AREAS.
- IF VEGETATION FAILS TO GROW, CONSIDER SOIL TESTING TO DETERMINE SOIL PH OR NUTRIENT DEFICIENCY PROBLEMS. (CONTACT YOUR SOIL AND WATER CONSERVATION DISTRICT OR COOPERATIVE EXTENSION OFFICE FOR ASSISTANCE.)
- IF ADDITIONAL FERTILIZATION IS NEEDED TO GET A SATISFACTORY STAND, DO SO ACCORDING TO SOIL TEST RECOMMENDATIONS.
- ADD FERTILIZER THE FOLLOWING GROWING SEASON. FERTILIZE ACCORDING TO SOIL TEST RECOMMENDATIONS.
- FERTILIZE TURF AREAS ANNUALLY. APPLY FERTILIZER IN A SPLIT APPLICATION. FOR COOL-SEASON GRASSES, APPLY ONE-HALF OF THE FERTILIZER IN LATE SPRING AND ONE-HALF IN EARLY FALL. FOR WARM-SEASON GRASSES, APPLY ONE-THIRD IN EARLY SPRING, ONE-THIRD IN LATE SPRING, AND THE REMAINING ONE-THIRD IN MIDDLE SUMMER.

SEEDING INFORMATION

CITY OF GREENFIELD



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**FRANKLIN STREET
SANITARY SEWER EXT.**

Greenfield, Indiana



Bryan L. Hoad 11/5/2025
CERTIFIED BY

ISSUANCE INDEX	
DATE:	5/15/2025
PROJECT PHASE:	100% PLANS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1	THIS SHEET REPLACES PREVIOUSLY DATED SHEET: 5/15/2025	5/30/25

Project Number 2025.00749

**EROSION CONTROL
DETAILS**

C-402