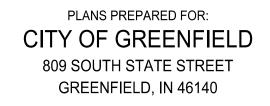
CITY OF GREENFIELD

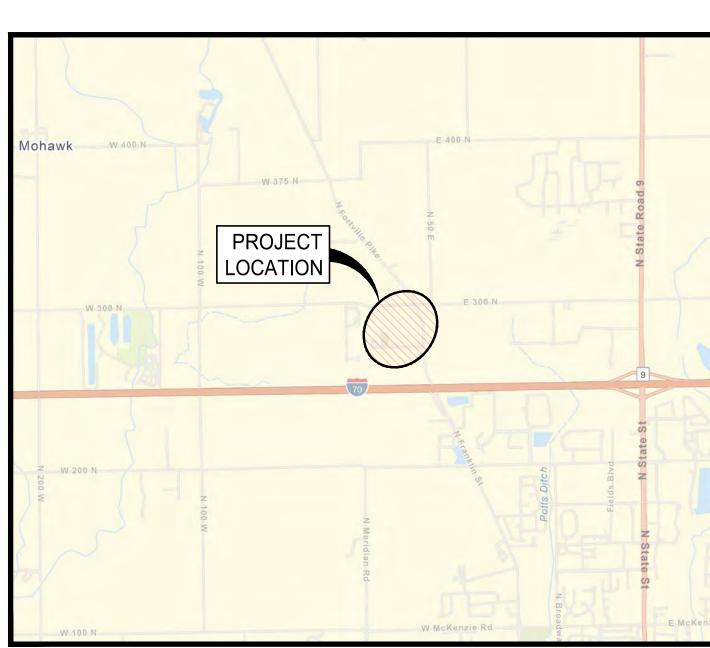
PLANS FOR

FRANKLIN STREET SANITARY SEWER EXTENSION

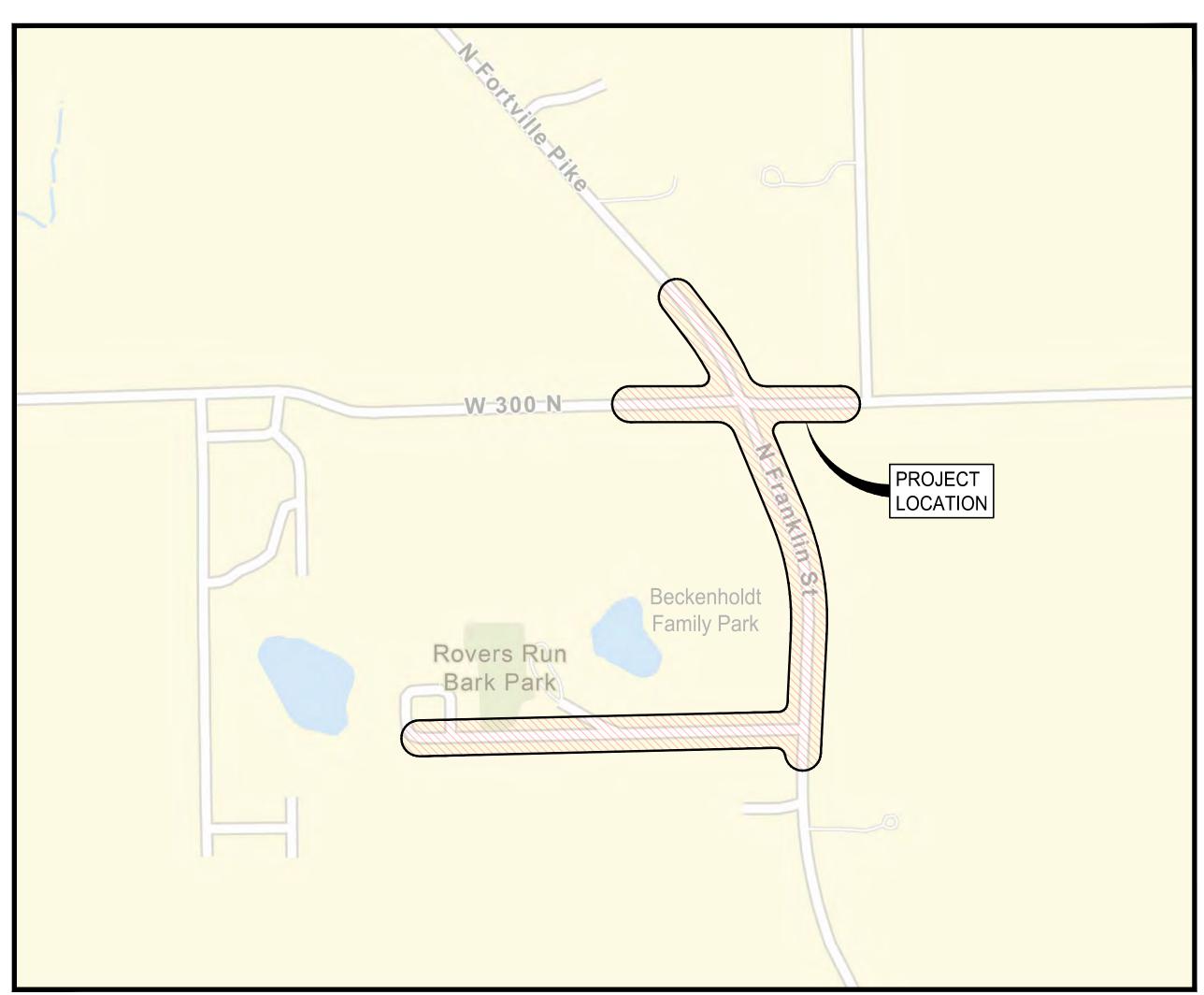
PROJECT NO. 2025.00749





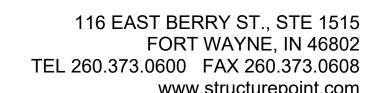












INDIANAPOLIS &

TERRE HAUTE



100% PLANS - 5/15/2025

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

<u>COMMUNICATIONS</u> AT&T - DISTRIBUTION DUKE ENERGY 240 N. MERIDIAN ST. 1000 E. MAIN ST. PLAINFIELD, IN 46168 INDIANAPOLIS, IN 46204 CONTACT: TENDAL INMAN CONTACT: ZACH BOSTON PHONE: (317) 372-9885 PHONE: (317) 838-1053

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

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

ELECTRIC, SEWER, WATER

CONTACT: CHARLES GILL

GREENFIELD UTILITIES

GREENFIELD, IN 46140

451 MEEK ST.

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

2243 E. MAIN ST.

GREENFIELD, IN 46140

CONTACT: ERIC MEYER

PHONE: (317) 326-3131

809 SOUTH STATE ST. GREENFIELD, IN 46140 CONTACT: NICHOLAS DEZELAN PHONE: (XXX) XXX-XXXX PHONE: (317) 325-1353



LEGEND:

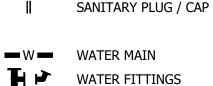
EXISTING:

	AID CONDITIONED	~	LICUT POLE	فررسي	TDEE
AC	AIR CONDITIONER	\Rightarrow	LIGHT POLE	EFF	TREE
	BEEHIVE INLET	O	MAIL BOX		WATER METER
$\vdash \bigcirc$	BRACE POLE	**	PINE TREE	WV	
	BUSH	•	POST	\bowtie	WATER VALVE
(a)	CLEAN OUT	占	POWER POLE	\bigcirc	WELL
-	COMBINATION POLE		RIGHT OF WAY MARKER	- -	YARD LIGHT
\bigoplus	DRAINAGE INLET	S	SANITARY MH		
(DRAINAGE MH		SIGN	-e-	BURIED ELECTRIC LINE
$ \ \ $	ELECTRIC HANDHOLE	56r	SPRINKLER CONTROL VALVE	-fo-	BURIED FIBER OPTIC LINE
E	ELECTRIC METER BOX	0	STAND PIPE	-g-	BURIED GAS LINE
₩,	FIRE HYDRANT	M	STUMP	-t-	BURIED TELEPHONE LINE
ક્રે	FLAG POLE	T	TELEPHONE BOX	-W-	BURIED WATER LINE
<u> </u>	GAS MARKER	\bigoplus	TELEPHONE HANDHOLE	-obr-	OVERHEAD BRACE LINE
€	GROUND LIGHT	<u>T</u>	TELEPHONE MARKER	-ohe-	OVERHEAD ELECTRIC LINE
\vdash	GUY WIRE	- T-	TELEPHONE PEDESTAL	-ofo-	OVERHEAD FIBER OPTIC LINE

PROPOSED:



SANITARY MANHOLE SANITARY SEWER SANITARY LATERAL



WATER PLUG / CAP WATER 2/4" TECT DICER

WATER VALVE



EROSION CONTROL - STRAW BALE

EROSION CONTROL - RIPRAP

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.
- 3. 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.
- 5. ACTIVE FLOWS SHALL BE DIVERTED WITH FLOW THROUGH PLUGS OR BYPASS PUMPED AS REQUIRED TO ENSURE THAT THE LIQUID FLOW IS MAINTAINED.
- 6. 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.
- 8. THE CONTRACTOR SHALL PROTECT POWER POLES AND OTHER UTILITIES FROM DAMAGE, IN A MANNER APPROVED BY UTILITY.
- 9. THE USE OF EXPLOSIVES FOR "ROCK REMOVAL" IS PROHIBITED UNLESS OTHERWISE AUTHORIZED IN WRITING.
- 10. 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.
- 11. CONSTRUCTION SHALL NOT COMMENCE UNTIL ALL NECESSARY LOCAL PERMITS HAVE BEEN OBTAINED.
- 12. 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 REASONABLY CLEAN STREETS. THE CONTRACTOR MUST ALSO KEEP AIRBORNE DIRT AND DUST TO A MINIMUM BY USING WATER OR OTHER METHODS AS NECESSARY.
- 13. ALL GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL HAVE TEMPORARY SEEDING AND MULCHED SEEDING ONCE WORK IN THE AREA IS COMPLETE.
- 14. 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.
- 15. COMPACTED GRANULAR BACKFILL OR FLOWABLE FILL SHALL BE REQUIRED FOR BACKFILLING UNDER PAVEMENT, GRAVEL DRIVES, AND WITHIN 5 FEET OF THE EDGE
- 16. 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.
- 17. 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.
- 18. 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.
- 19. THE DRAWINGS DO NOT SHOW PHASING OR SEQUENCING OF THE PROJECT WORK.
- 20. 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.
- 21. 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.
- 23. THE CONTRACTOR SHALL CONFIRM IN THE FIELD LOCATIONS OF PARTIAL REPAIRS BEFORE BEGINNING EXCAVATION ASSOCIATED WITH THE REPAIR.
- 24. FIELD TILE ENCOUNTERED SHALL BE REPAIRED AND/OR REPLACED TO ITS ORIGINAL CONDITION OR BETTER AND FLOW DIRECTION.
- 25. 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.
- 26. 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.
- 27. 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.
- 28. 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.

•—	WATER 3/4" TEST	NISEK															
								ABBI	REVIATIONS								
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 CPP	CORRUGATED METAL PIPE CORRUGATED PLASTIC PIPE	DIRJ	DUCTILE IRON RESTRAINED JOINT	FT FTG	FOOT (FEET) FOOTING	INV LF	INVERT LINEAR FEET	P PP	POLE POWER POLE	RD	ROOF DRAIN	TBA	TO BE ABANDONED THIS CONTRACT	W	WATER WEST
APPROX ARCH	APPROXIMATE ARCHITECT	CMU	CONCRETE MASONRY UNIT	DWG	DRAWING	G	GAS	LPT	LOW POINT	PED	PEDESTAL	REF REQD	REFERENCE REQUIRED	TBM TEL	TEMPORARY BENCHMARK TELEPHONE	W	WIDE (WIDTH)
ARV	AIR RELIEF VALVE	СО	CLEANOUT	Е	EAST	GAL	GALLON(S)	MATL	MATERIAL	PERF	PERFORATED	REV	REVISION	TEMP	TEMPORARY	W/	WITH
ASPH	ASPHALT	CONC CP	CONCRETE CONTROL POINT	E EL	ELECTRIC ELEVATION	GALV GPM	GALVANIZED GALLONS PER MINUTE	MECH MFG	MECHANICAL MANUFACTURING	PI PL	POINT OF INTERSECTION PLATE	ROW	RIGHT OF WAY	TH	TELEPHONE HANDHOLE	W/O WS	WITHOUT WATERSTOP
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	СТОС	CENTER TO CENTER	ELEV	ELEVATION	GV	GAS VALVE	MFR	MANUFACTURER	PL	PROPERTY LINE	R/W S	RIGHT OF WAY SOUTH	THK TOB	THICK(NESS) TOP OF BANK	WT	WEIGHT
AUTO	AUTOMATIC BUFFALO BOX	CU FT CU YD	CUBIC FEET CUBIC YARDS	EA	EACH ELECTRIC	HB	HOSE BIBB HIGH DENSITY	MH MIN	MANHOLE MINIMUM	PPM PREFAB	PARTS PER MILLION PREFABRICATED	SCHD	SCHEDULE	TOPO	TOPOGRAPHY	WV YD	WATER VALVE YARD
BB BDRY	BOUNDARY	DAT	DATUM	ELEC EQ	EQUAL	HDPE	POLYETHYLENE	MISC	MISCELLANEOUS	PREFAB	PARKING	SD	STORM DRAIN	TOS	TOE OF SLOPE	YD	YARD
BFV	BUTTERFLY VALVE	DEMO	DEMOLITION	EQUIP	EQUIPMENT	HH HORIZ	HANDHOLE HORIZONTAL	MJ	MECHANICAL JOINT	PROJ	PROJECT	SEC SPEC	SECTION SPECIFICATION	TOW TR	TOP OF WALL TOP OF RIM		
BLDG BM	BUILDING BENCHMARK	DEPT DET	DEPARTMENT DETAIL	EX EXIST	EXISTING EXISTING	HP	HORSE POWER	NIC NO	NOT IN CONTRACT NUMBER	PSI PT	POUNDS PER SQUARE INCH POINT	SS	STAINLESS STEEL	TR	TRAFFIC POLE		
СВ	CATCH BASIN	DI	DUCTILE IRON	FD	FLOOR DRAIN	HPT HT	HIGH POINT HEIGHT	NOM	NOMINAL	PV	PLUG VALVE	STA STD	STATION STANDARD	TV TYP	TELEVISION		
CI	CURB INLET	DIA	DIAMETER	FH	FIRE HYDRANT	HVAC	HEATING, VENTILATING	NTS	NOT TO SCALE	PVC	POLYVINYL CHLORIDE	STRUCT	STRUCTURAL	UTIL	TYPICAL UTILITY		
CIP CIPP	CAST-IN-PLACE CURED IN PLACE PIPE	DIM	DIMENSION	FIG FIN	FIGURE FINISH	ID	AND AIR CONDITIONING INSIDE DIAMETER	OC OD	ON CENTER OUTSIDE DIAMETER	QTY R	QUANTITY RADIUS	SYS	SYSTEM	VERT	VERTICAL		

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C-115 PLAN AND PROFILE - SANITARY SEWER - LINE "S2" BASE BID C-116 PLAN AND PROFILE - WATER MAIN - LINE "W1" MANDATORY ALTERNATE BID NO. 1 C-117 PLAN AND PROFILE - WATER MAIN - LINE "W1" MANDATORY ALTERNATE BID NO. 1 C-118 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 C-205 CONSTRUCTION DETAILS MANDATORY ALTERNATE BID NO. 2 DETAILS C-301 STANDARD DETAILS C-302 STANDARD DETAILS C-303 STANDARD DETAILS EROSION CONTROL			
C-116 PLAN AND PROFILE - WATER MAIN - LINE "W1" MANDATORY ALTERNATE BID NO. 1 C-117 PLAN AND PROFILE - WATER MAIN - LINE "W1" MANDATORY ALTERNATE BID NO. 1 C-118 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 C-205 CONSTRUCTION DETAILS MANDATORY ALTERNATE BID NO. 2 DETAILS C-301 STANDARD DETAILS C-302 STANDARD DETAILS C-303 STANDARD DETAILS EROSION CONTROL			
C-117 PLAN AND PROFILE - WATER MAIN - LINE "W1" MANDATORY ALTERNATE BID NO. 1 C-118 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			
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C-204 CONSTRUCTION DETAILS DETAILS C-301 STANDARD DETAILS C-302 STANDARD DETAILS C-303 STANDARD DETAILS EROSION CONTROL	C-202	CONSTRUCTION DETAILS	MANDATORY ALTERNATE BID NO. 2
DETAILS C-301 STANDARD DETAILS C-302 STANDARD DETAILS C-303 STANDARD DETAILS EROSION CONTROL	C-203	CONSTRUCTION DETAILS	MANDATORY ALTERNATE BID NO. 2
C-301 STANDARD DETAILS C-302 STANDARD DETAILS C-303 STANDARD DETAILS EROSION CONTROL	C-204	CONSTRUCTION DETAILS	MANDATORY ALTERNATE BID NO. 2
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C-303 STANDARD DETAILS EROSION CONTROL	C-301	STANDARD DETAILS	
EROSION CONTROL	C-302	STANDARD DETAILS	

CITY OF **GREENFIELD**

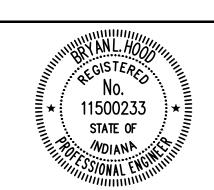




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FRANKLIN STREET SANITARY SEWER EXT

Greenfield, Indiana



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

REVISION SCHEDULE NO. DESCRIPTION DATE Project Number 2025.00749

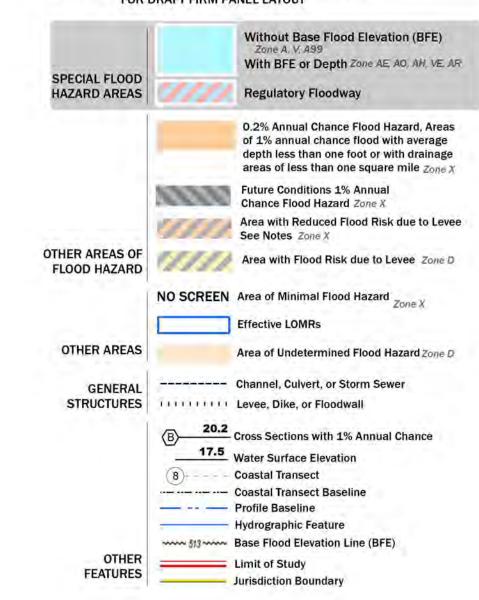
INDEX AND

GENERAL INFORMATION



FLOOD HAZARD INFORMATION

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



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 1-800-638-6620.

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, 2018.

This map was exported from FEMA's National Flood Hazard Layer (NFHL) on 4/1/2025 2:47 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/118418

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;

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



NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

PANEL 133 of 259

Panel Contains:

COMMUNITY HANCOCK COUNTY CITY OF GREENFIELD 0133

MAP NUMBER 18059C0133D EFFECTIVE DATE

December 04, 2007

FLOODWAY

C-103

CITY OF

GREENFIELD



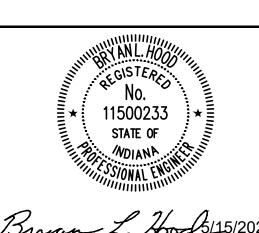


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FRANKLIN STREET **SANITARY SEWER EXT.**

Greenfield, Indiana

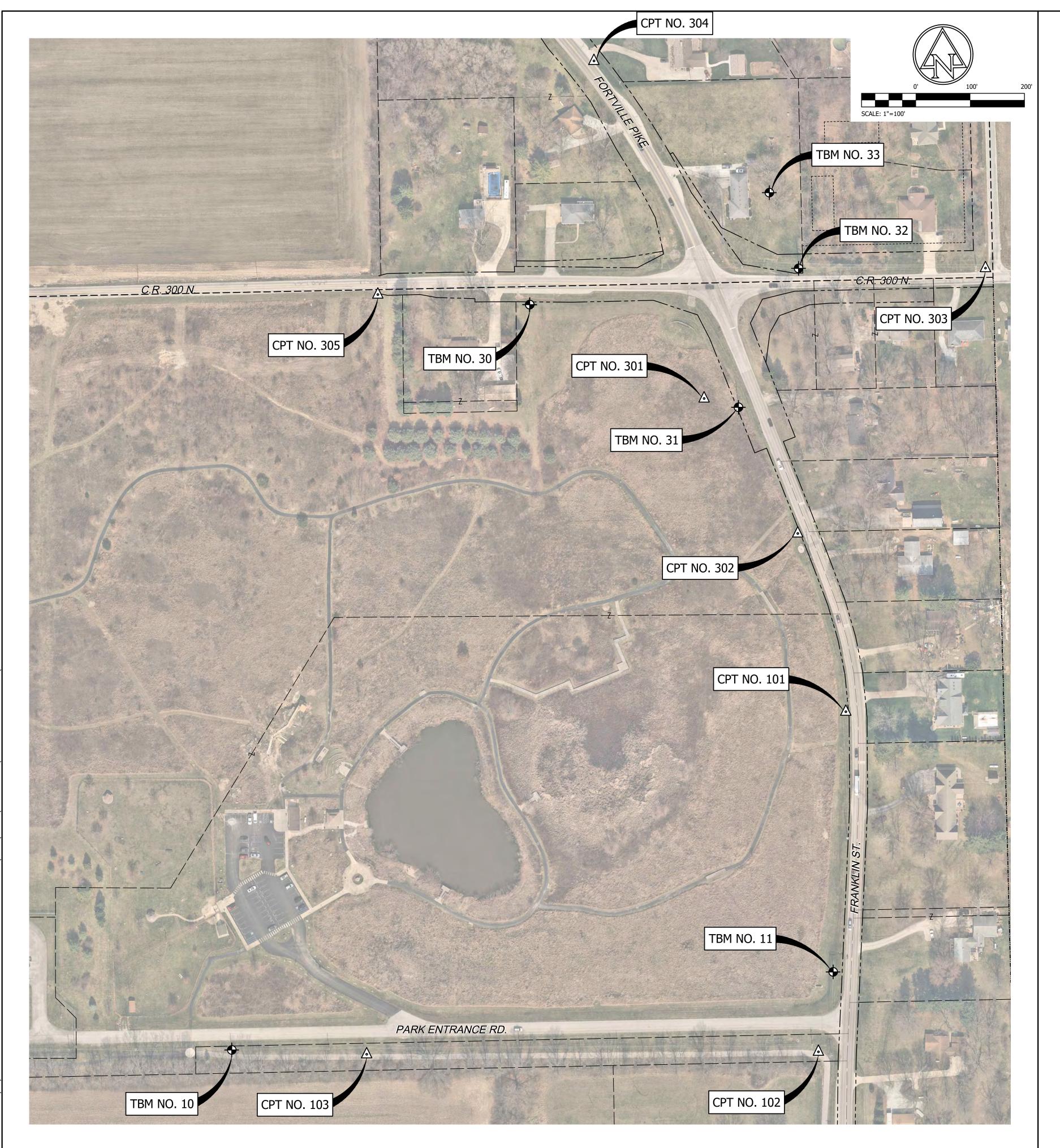


CERTIFIED BY ISSUANCE INDEX DATE: 5/15/2025

PROJECT PHASE: 100% PLANS

	REVISION SCHED	ULE
NO.	DESCRIPTION	DATE
Proie	ect Number 2	025.00749

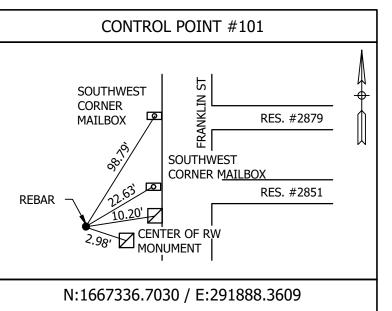
GENERAL **INFORMATION**

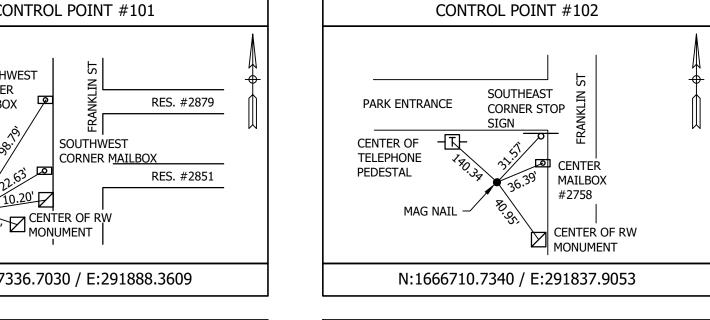


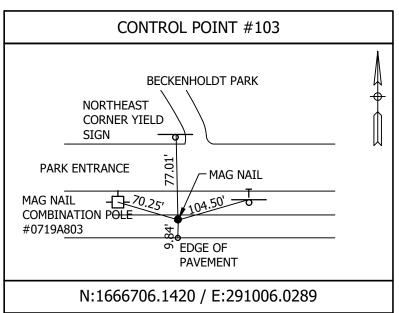
BENCHMARK INFORMATION (NAVD 88 DATUM)

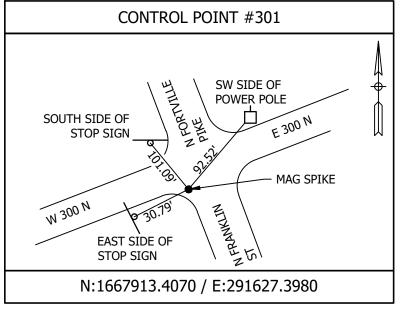
BENCHMARK ELEVATIONS WERE ESTABLISHED FROM GPS OBSERVATIONS ON THE IDENTIFIED BASE STATION DESCRIBED

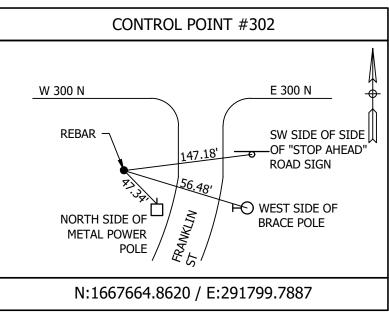
	BEI	NCHMARK AND CONTROL DATA - 88' DATUM
TBM NO.	ELEV.	DESCRIPTION
10	902.82	MAG SPIKE IN THE NORTH SIDE OF COMBINATION POLE, SOUTH SIDE OF PARK ENTRANCE ROAD, 300'± EAST OF TREATMENT PLANT GATE.
11	903.31	MAG SPIKE IN THE EAST SIDE OF COMBINATION POLE AT THE NORTHWEST CORNER OF GREENFIELD AVENUE & PARK ENTRANCE.
30	907.53	CHISELED "X" ON THE W BOLT OF A FIRE HYDRANT ON THE SOUTH SIDE OF CR 300 AND $\pm 125^{\circ}$ 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, $\pm 40^{\circ}$ EAST OF FORTVILLE PIKE AND $\pm 180^{\circ}$ NORTH OF CR 300.

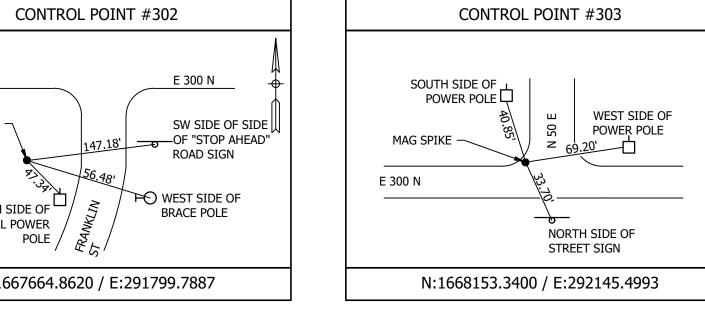


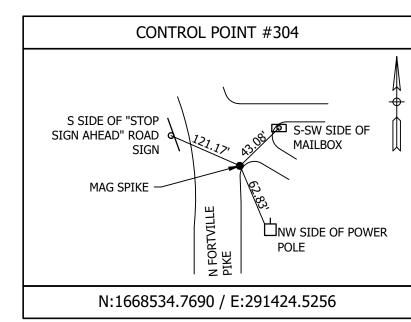


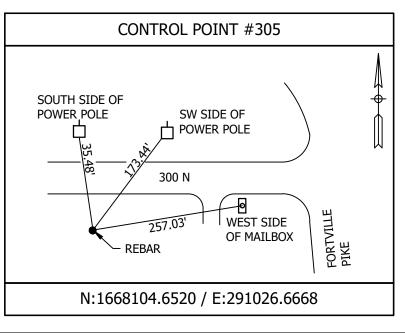




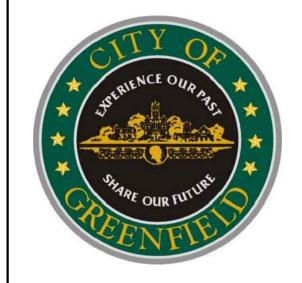








CITY OF **GREENFIELD**





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FRANKLIN STREET **SANITARY SEWER EXT.**

Greenfield, Indiana



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

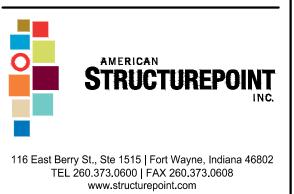
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NO.	DESCRIPTIO	N	DATE
Proje	ect Number	2	025.00749

BENCHMARK AND CONTROL POINT DATA



CITY OF GREENFIELD





GERALD N. WEBB

FRANKLIN STREET **SANITARY SEWER EXT.**

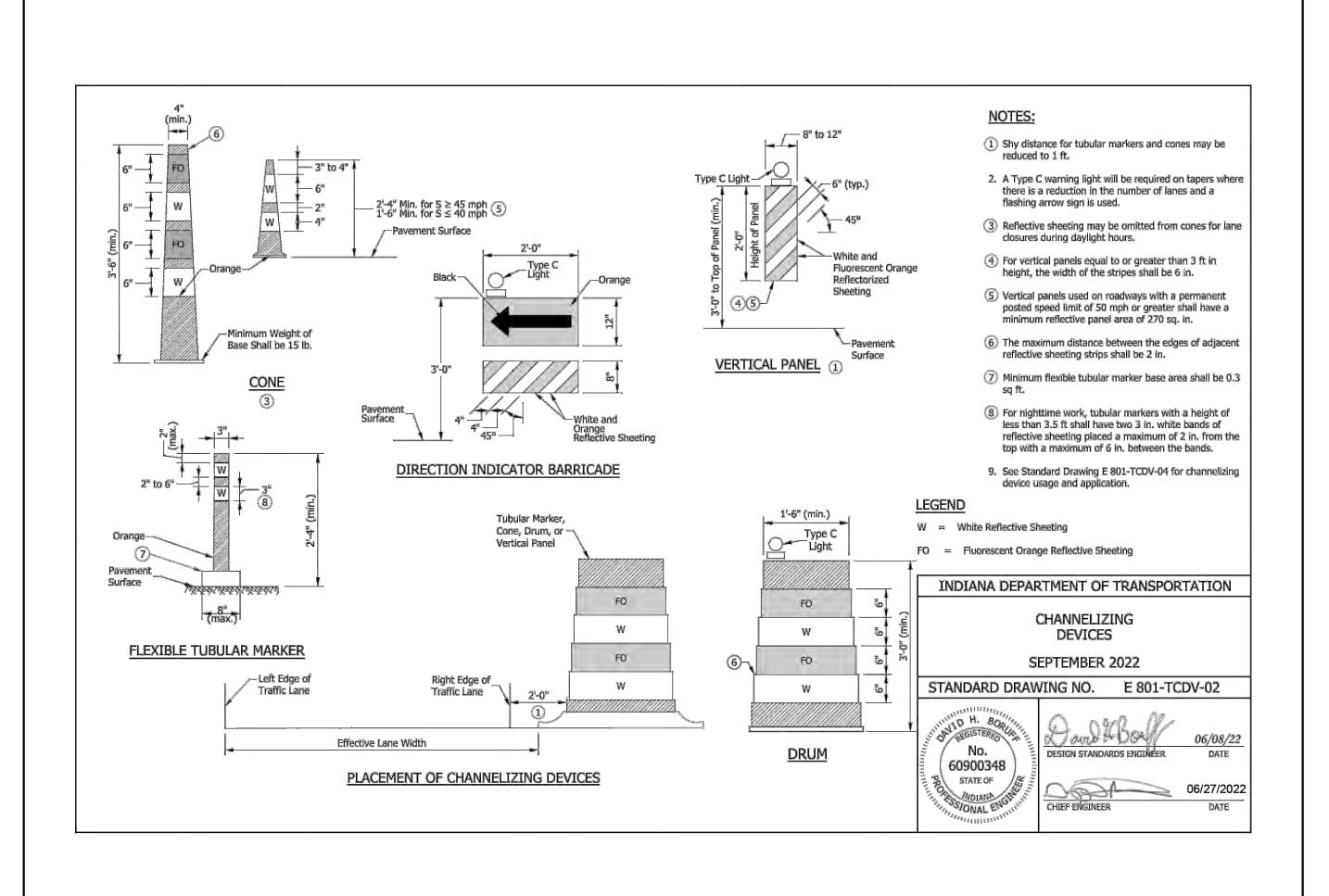
Greenfield, Indiana

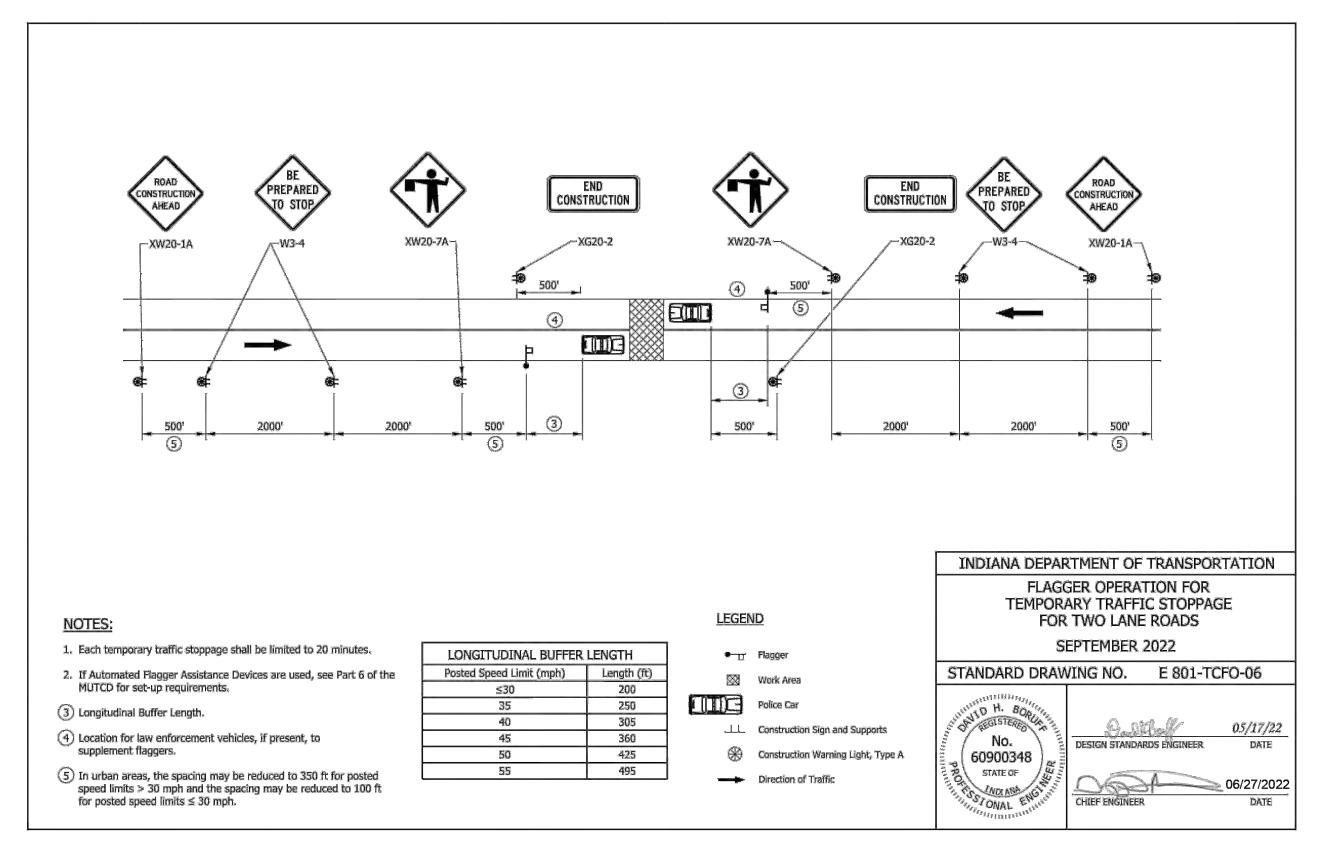


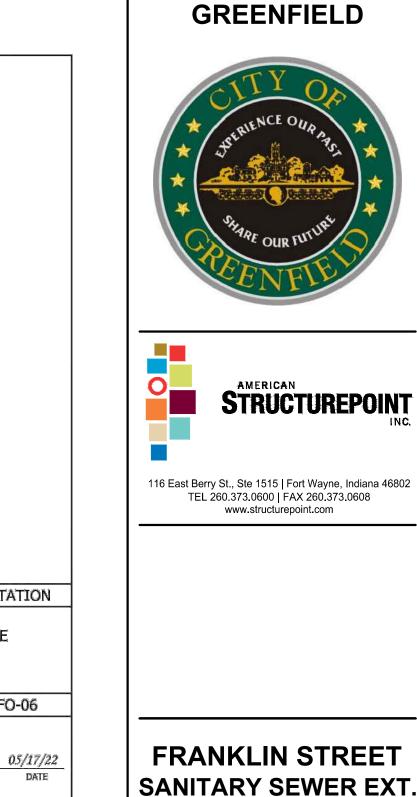
ISSUANCE INDEX DATE: 5/15/2025 PROJECT PHASE:

REVISION SCHE	DULE							
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Project Number 2025.00749								

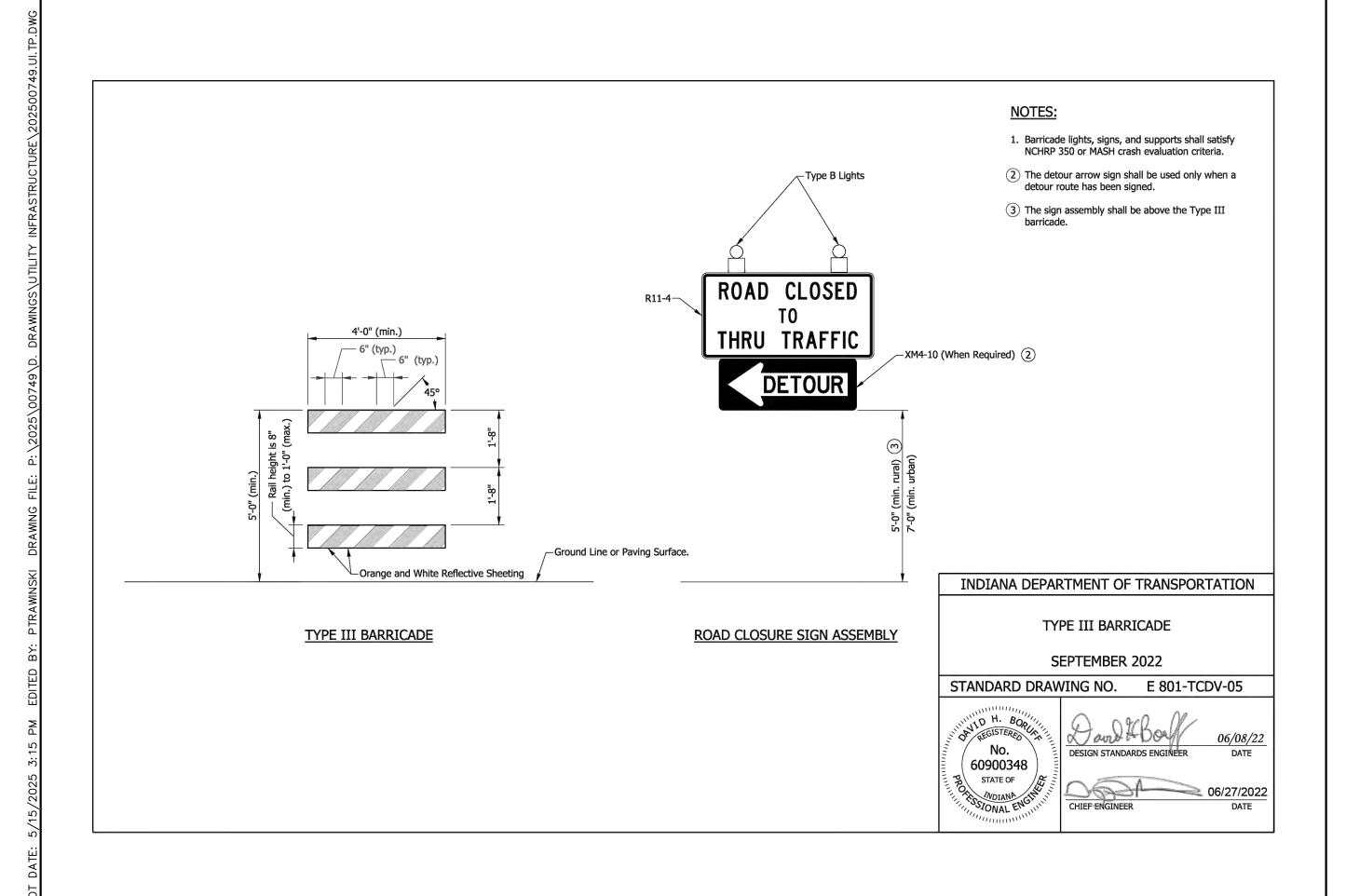
OVERALL PLAN

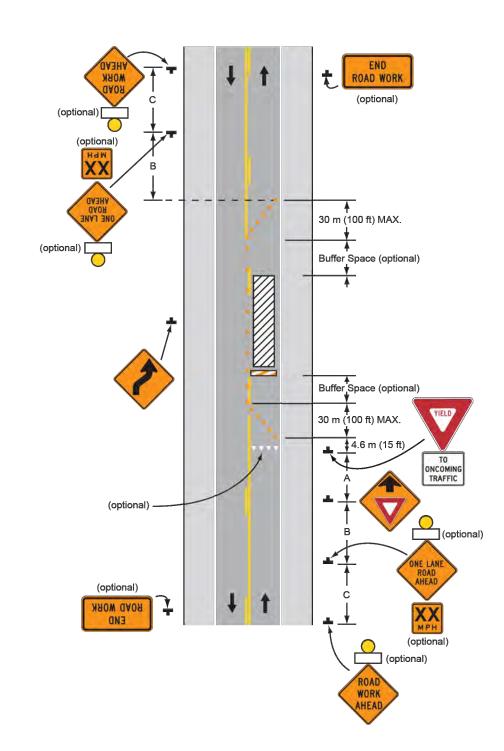






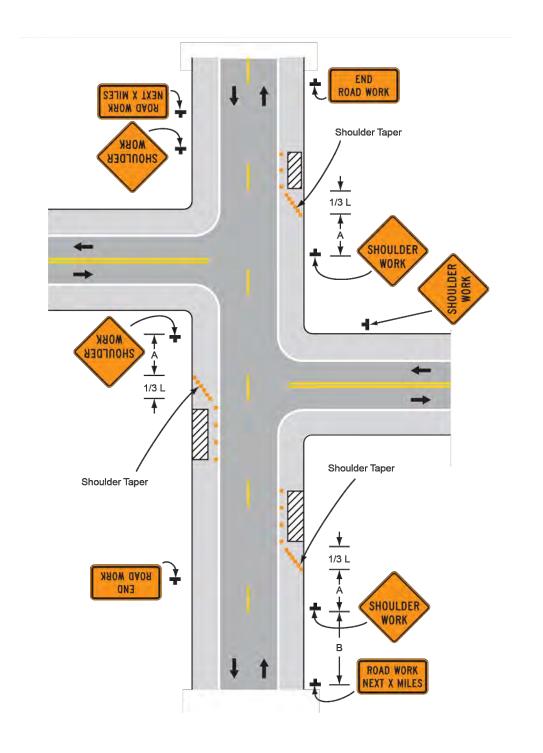
CITY OF







LANE CLOSURE
TWO LANE ROAD — LOW TRAFFIC VOLUME



ROAD/ACCESS TO BE MAINTAINED TO LOCAL TRAFFIC

LANE CLOSURE
ALONG SIDE OF ROAD

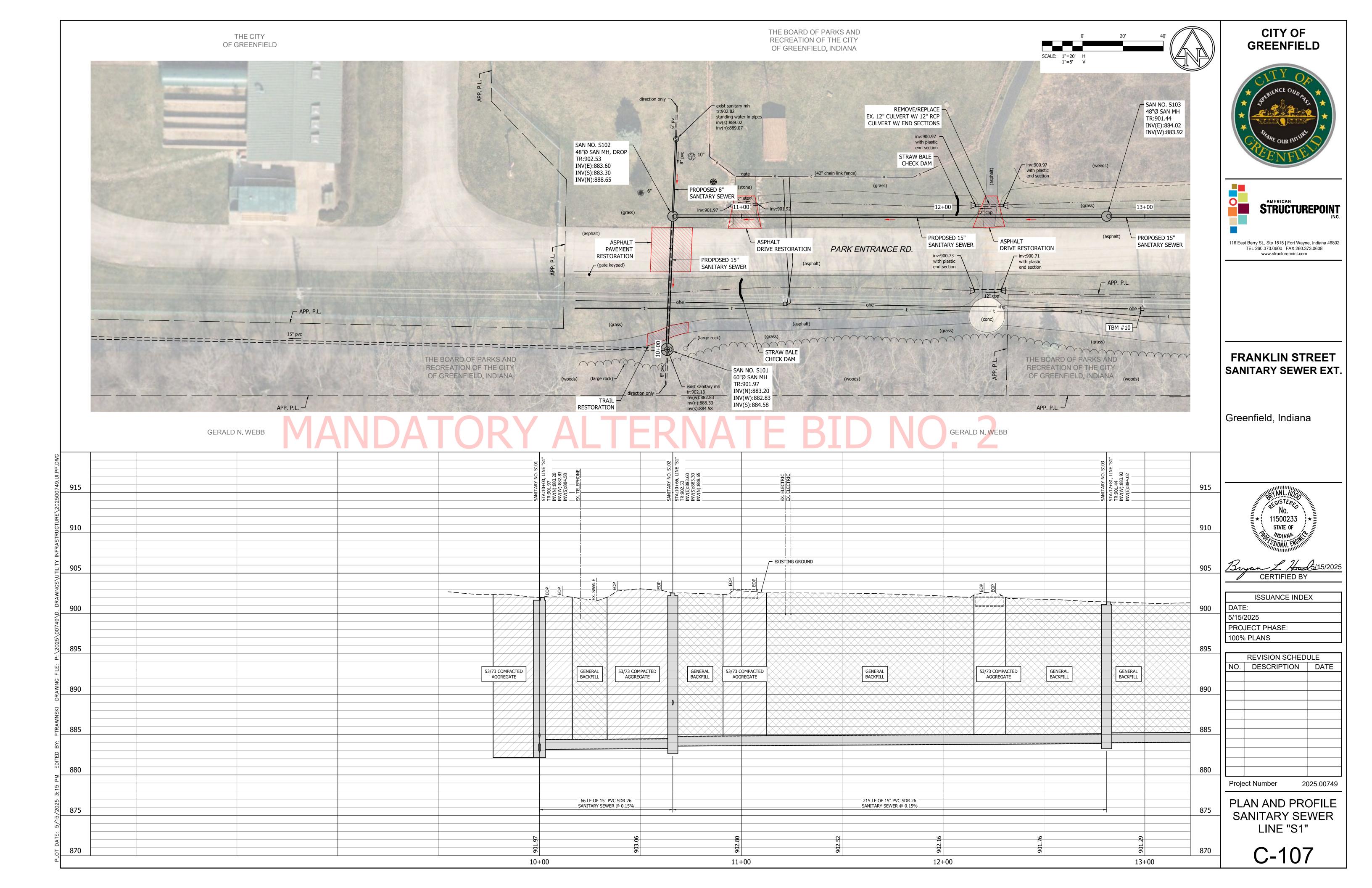


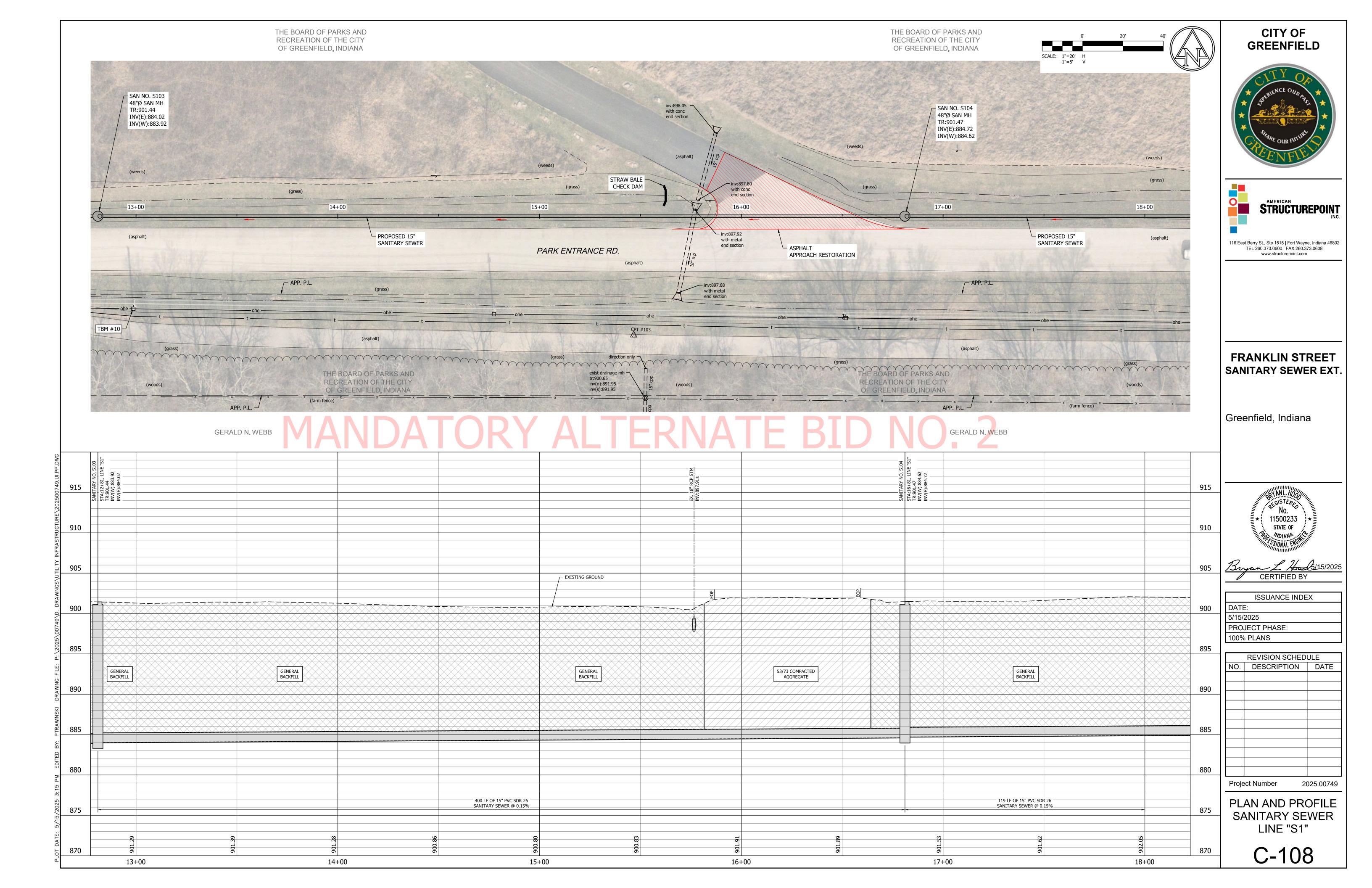
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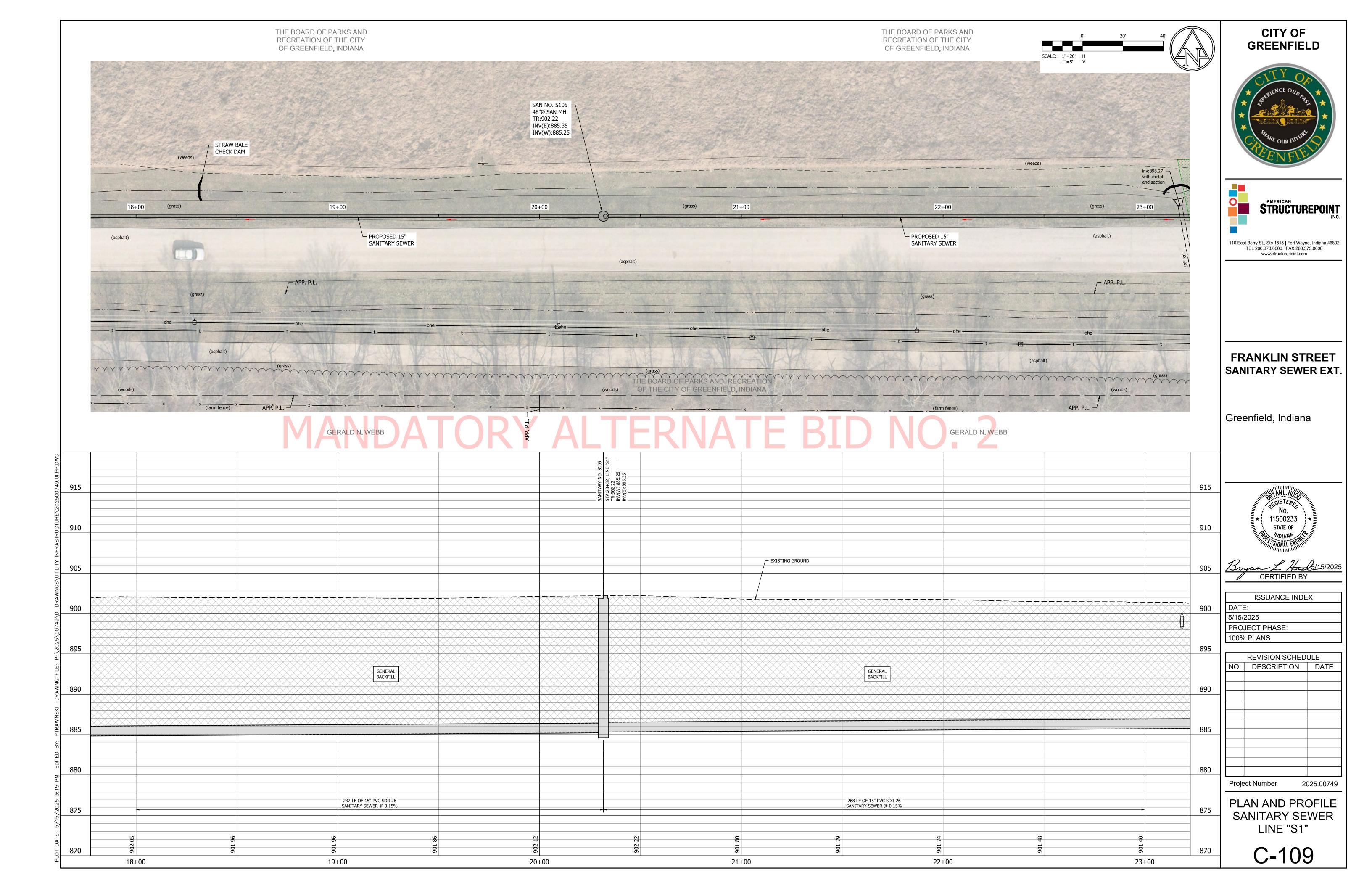
ISSUANCE INDEX
DATE:
5/15/2025
PROJECT PHASE:
100% PLANS

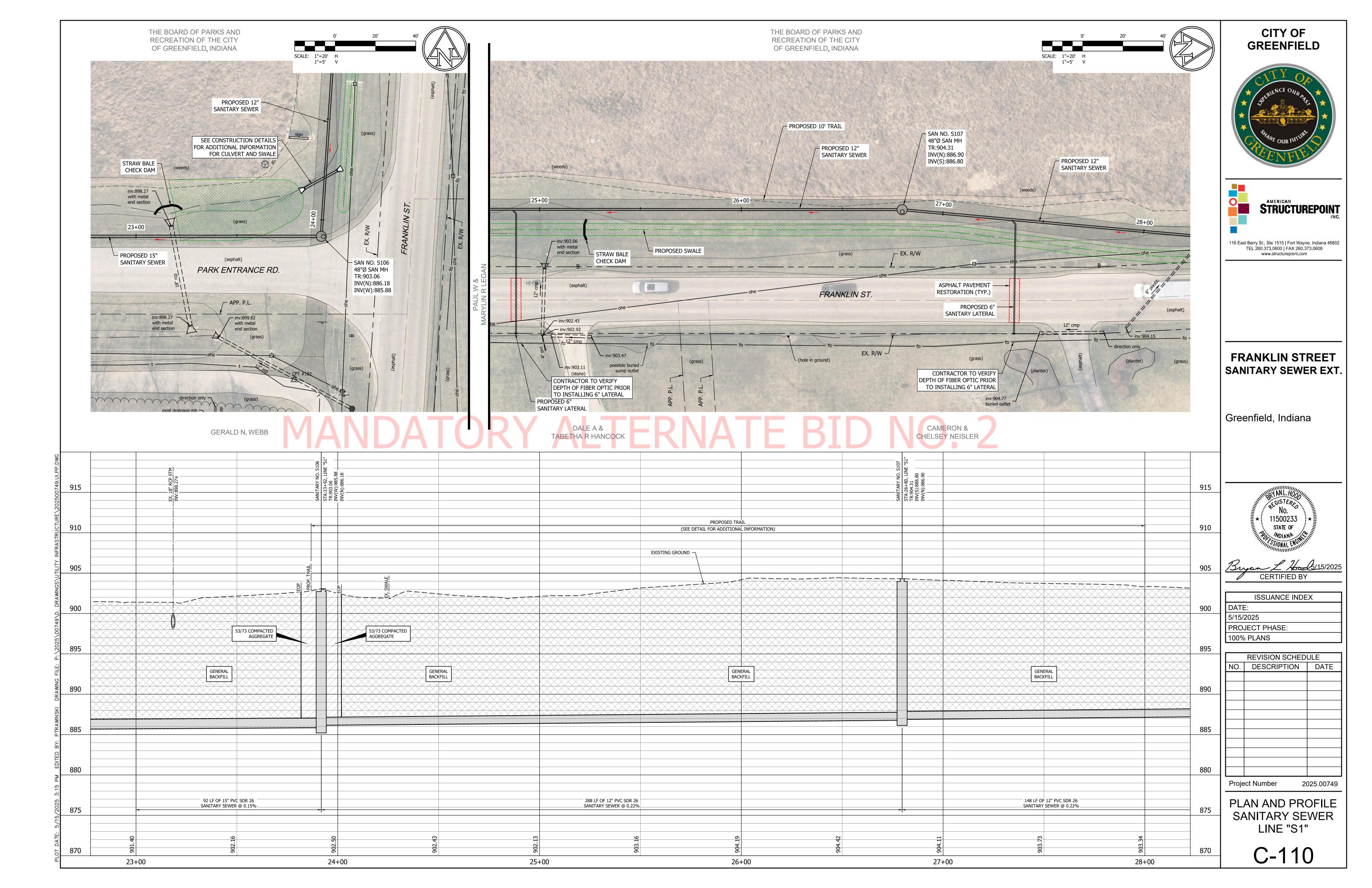
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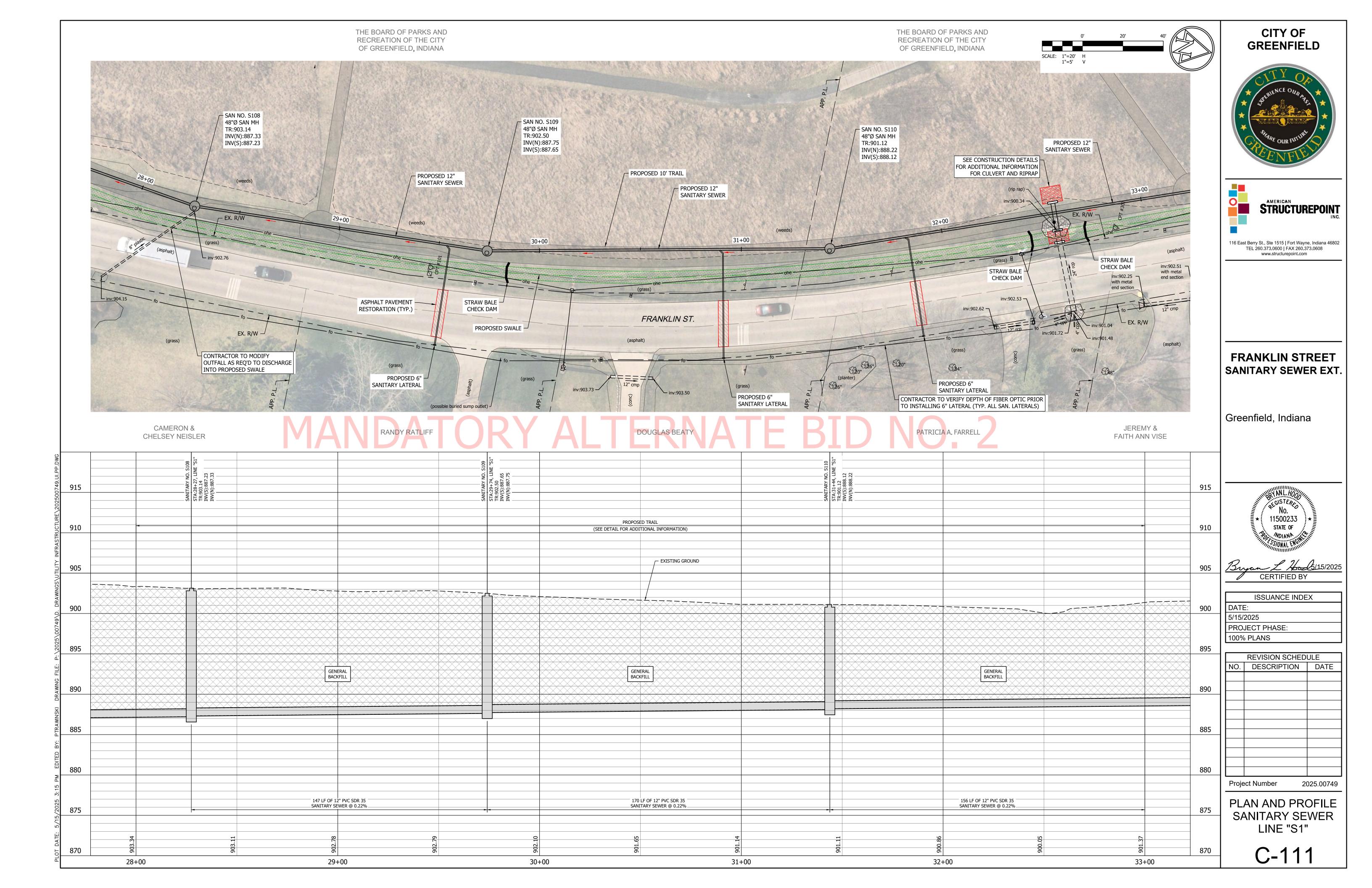
TRAFFIC PLAN

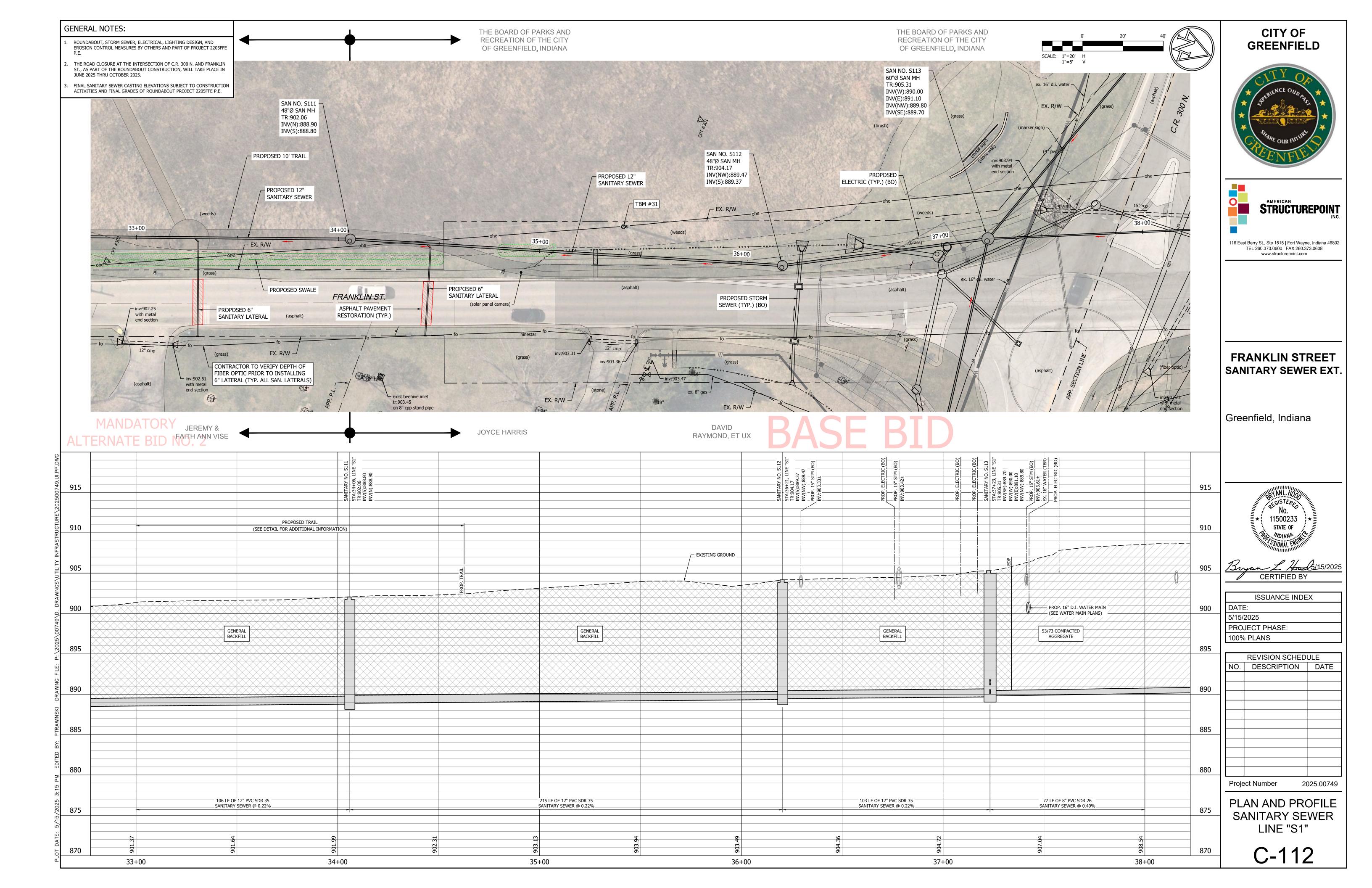


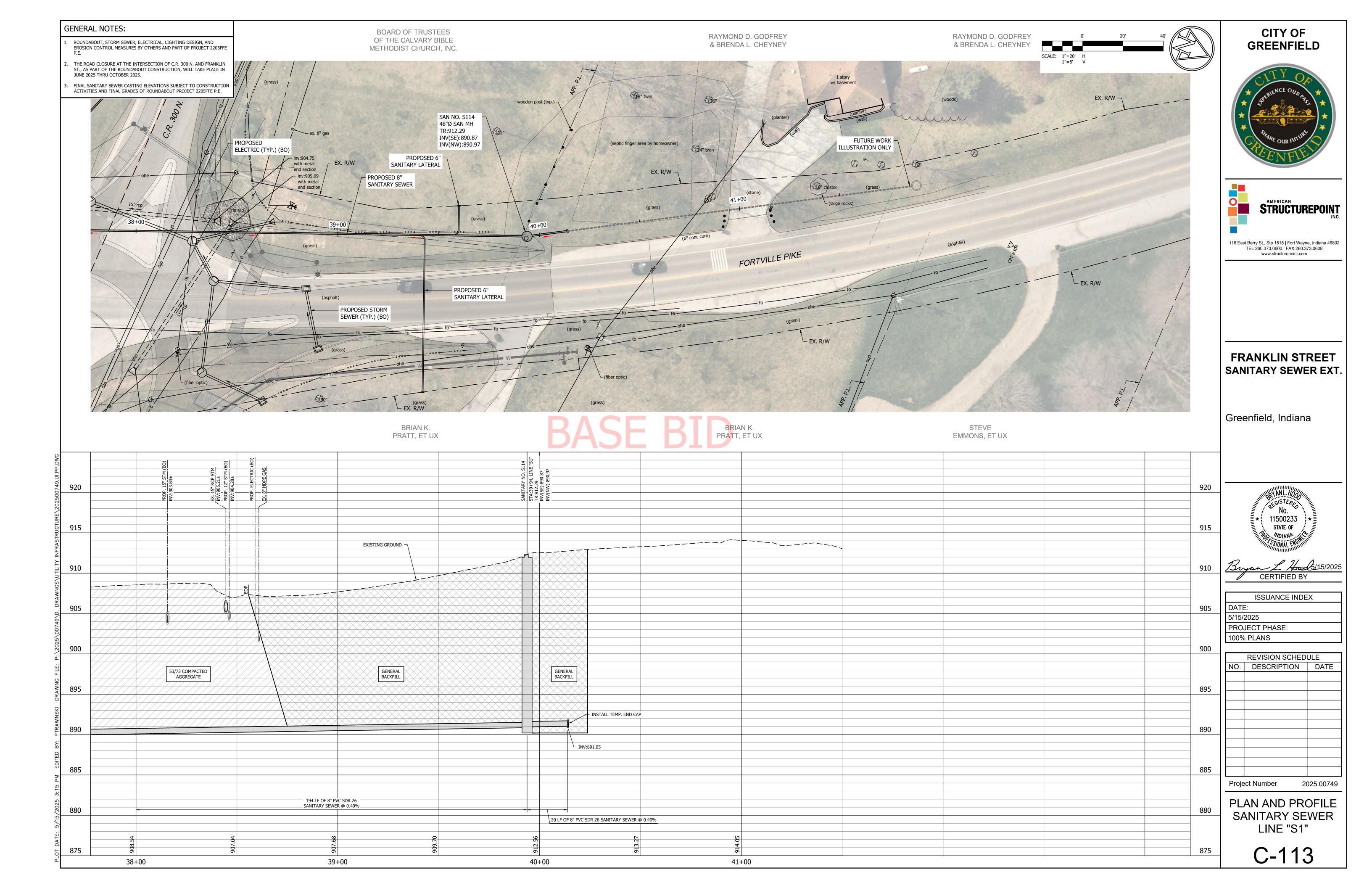


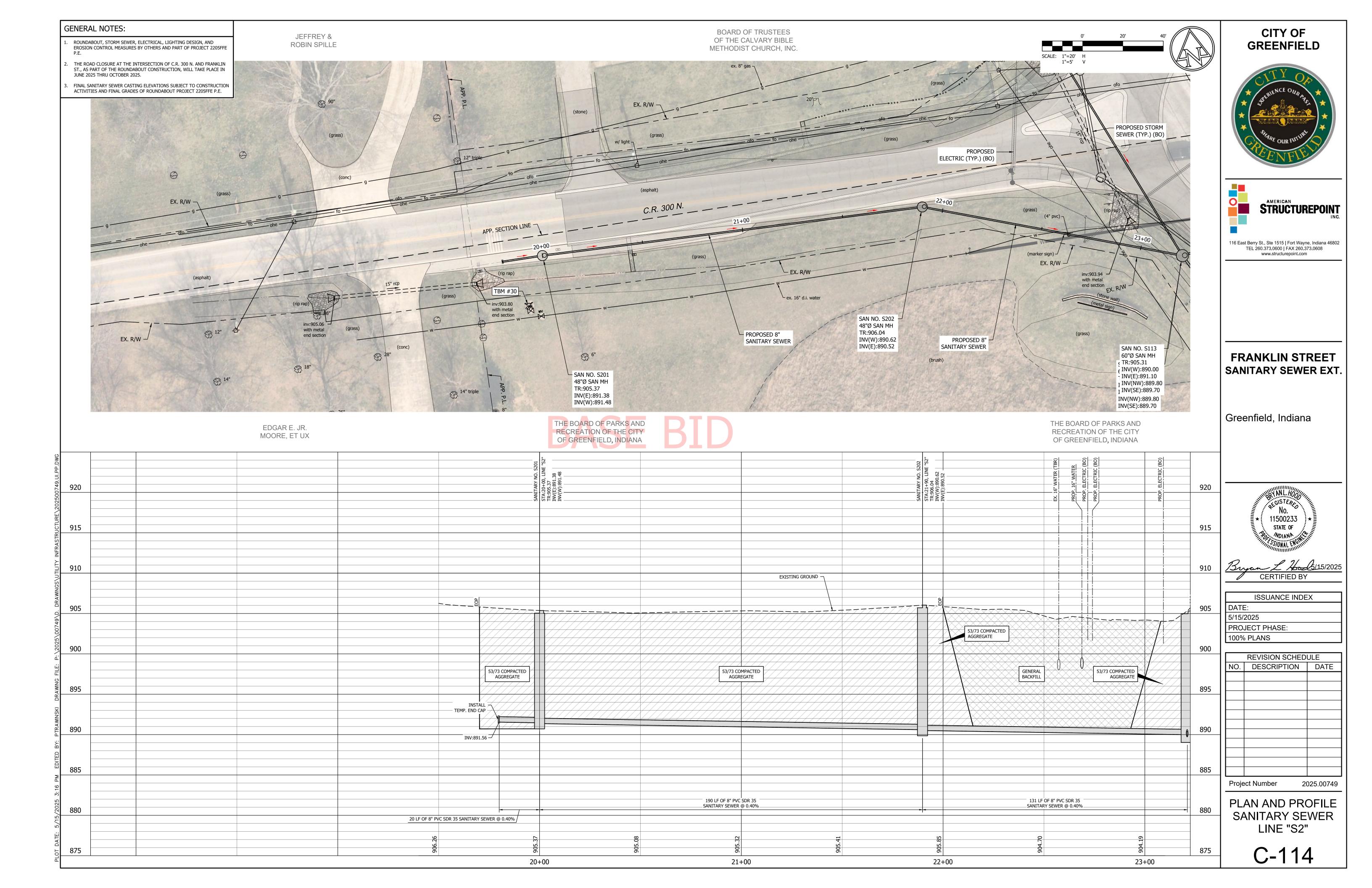


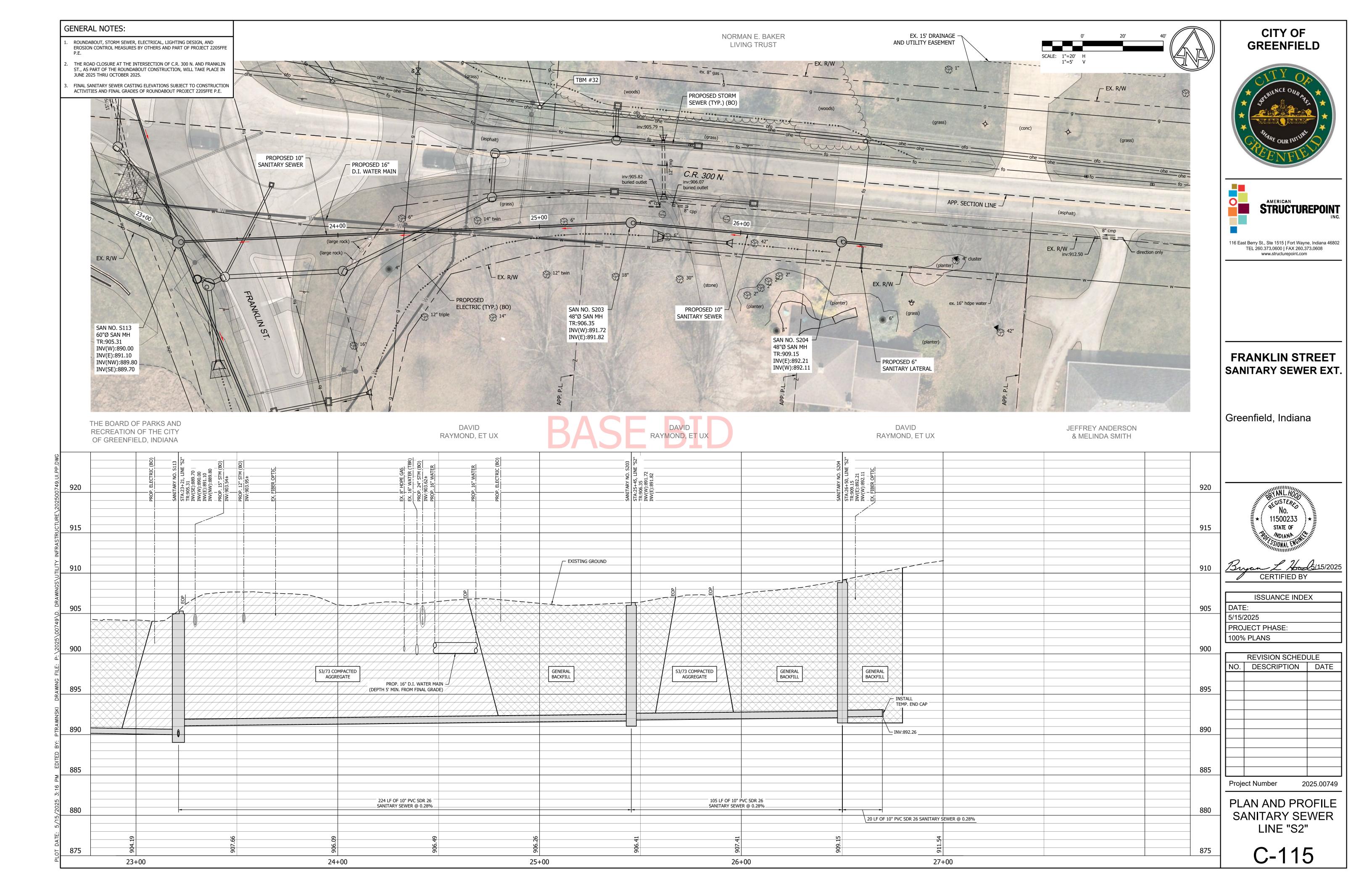


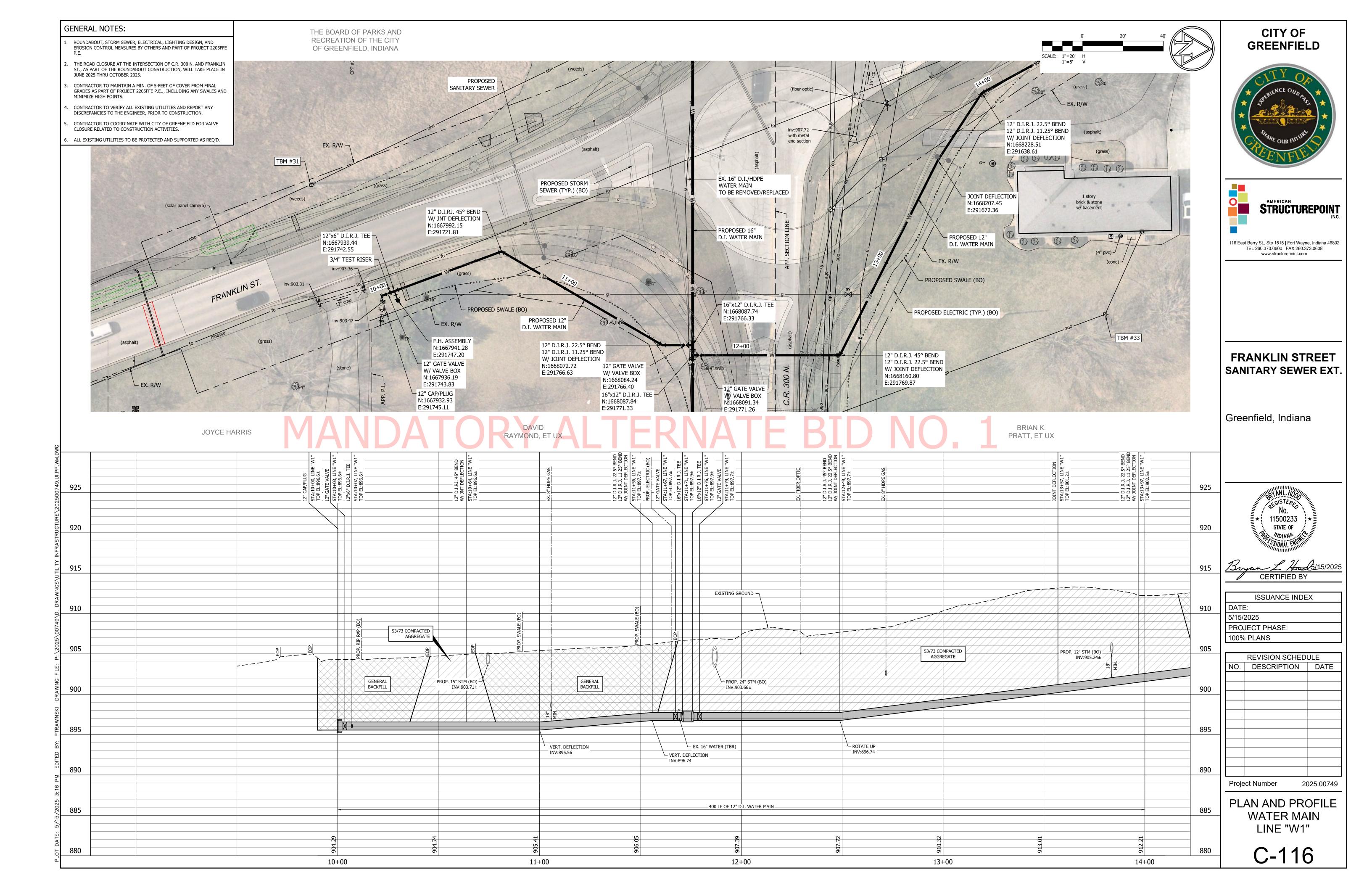


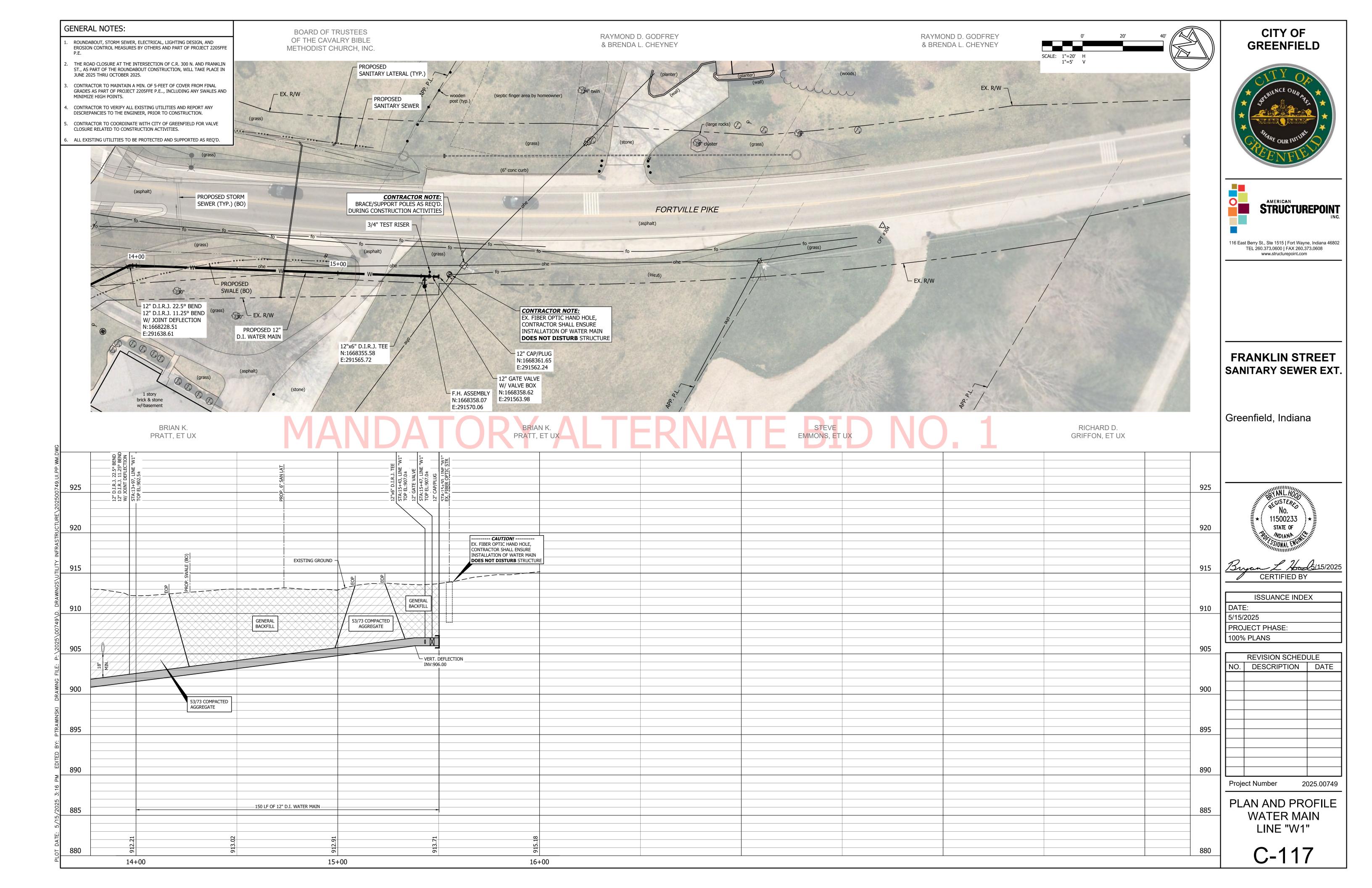


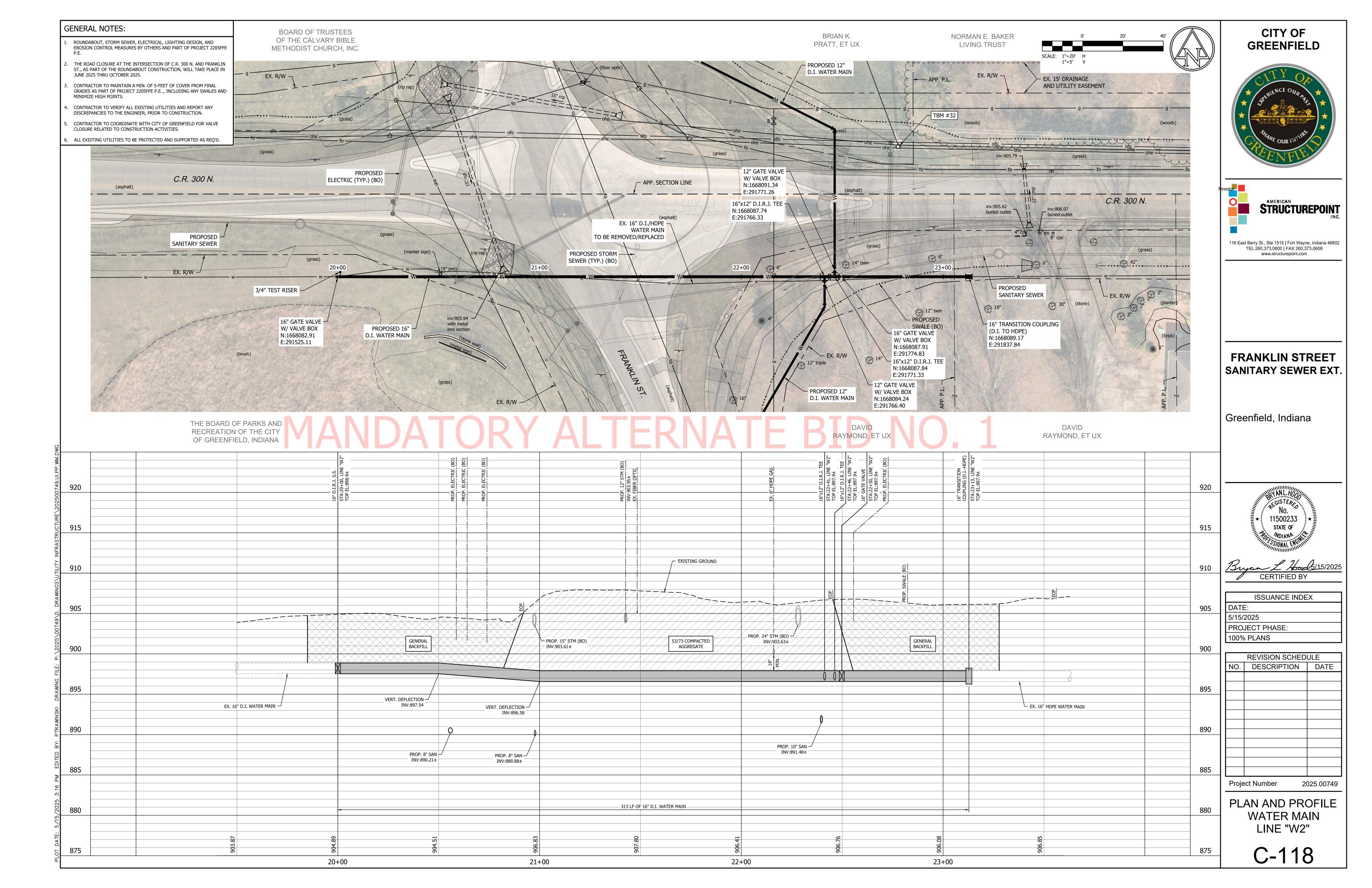


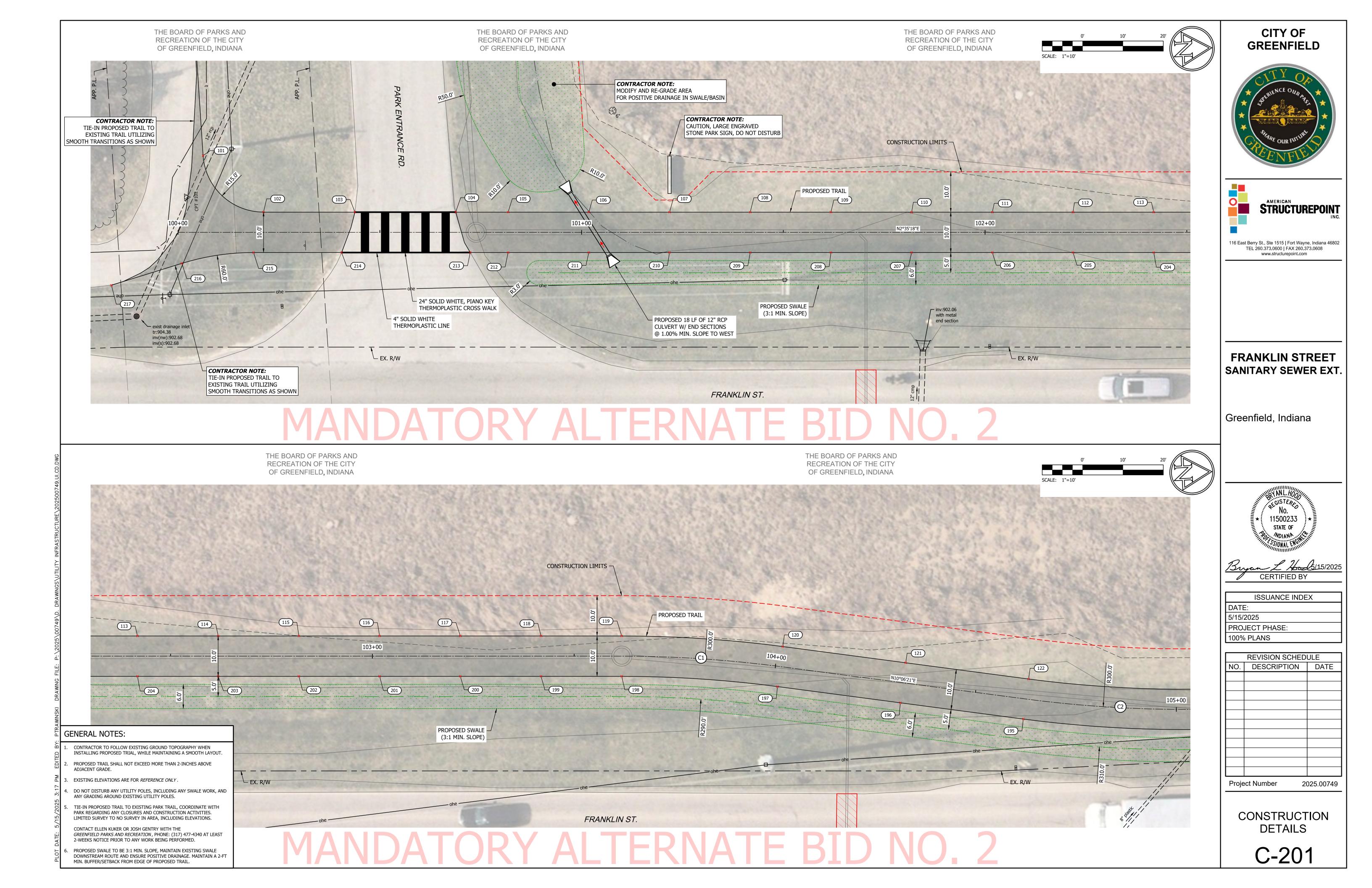


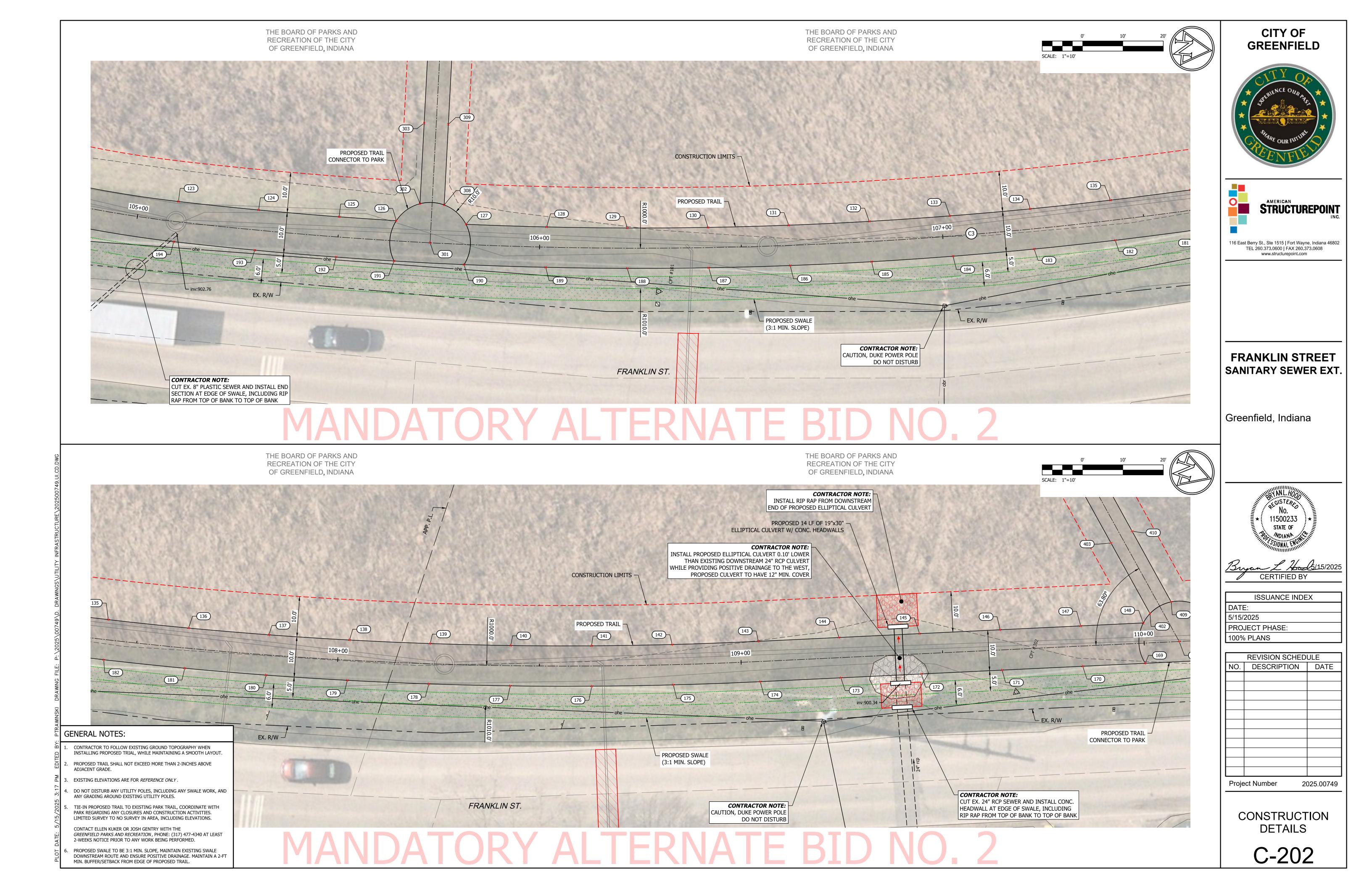


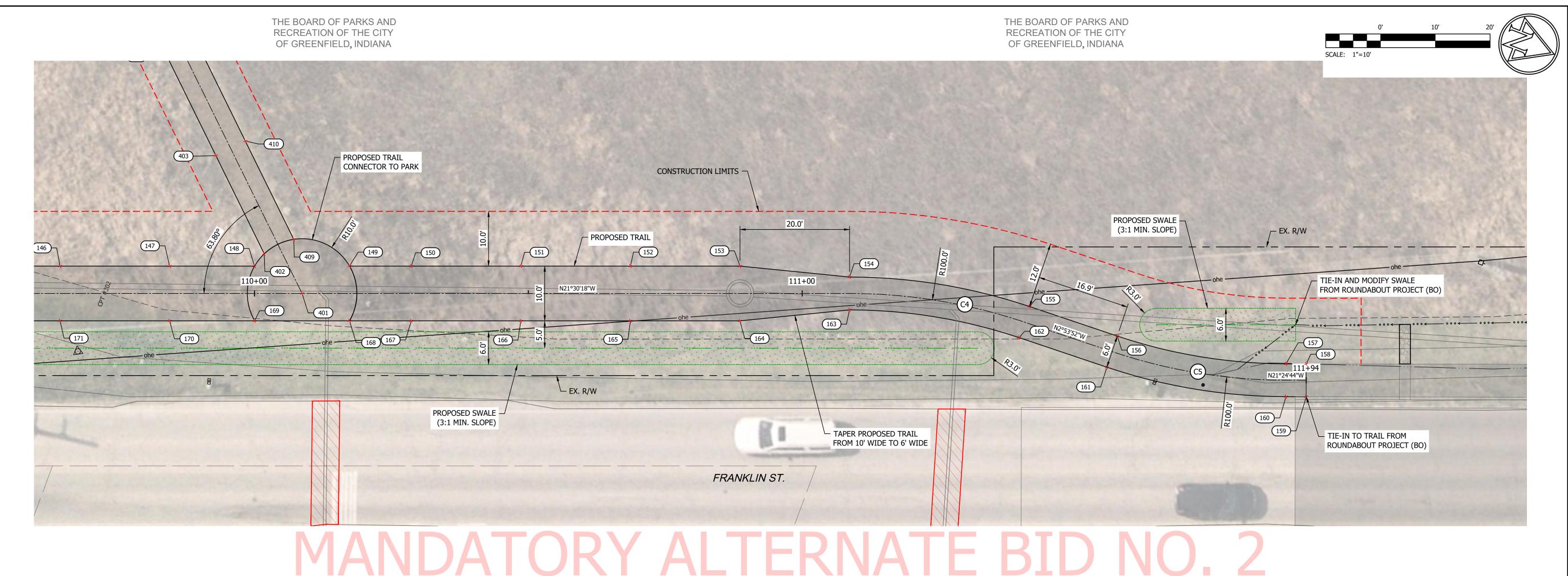












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101	903.04	1666715.32	291827.77	119	904.85	1667069.91	291857.84	137	901.10	1667484.97	291845.98	155	902.38	1667823.51	291728.48	173	901.09	1667622.59	291810.45	191	903.85	1667270.77	291887.13	209	901.84	1666849.68	291857.89	309	0.00	1667280.93	291852.15
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
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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
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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

GENERAL NOTES:

INSTALLING PROPOSED TRIAL, WHILE MAINTAINING A SMOOTH LAYOUT.

CONTRACTOR TO FOLLOW EXISTING GROUND TOPOGRAPHY WHEN

- PROPOSED TRAIL SHALL NOT EXCEED MORE THAN 2-INCHES ABOVE ADJACENT GRADE.
- 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.

	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					

CITY OF **GREENFIELD**

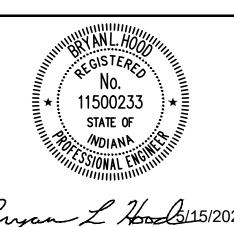




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FRANKLIN STREET **SANITARY SEWER EXT.**

Greenfield, Indiana



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

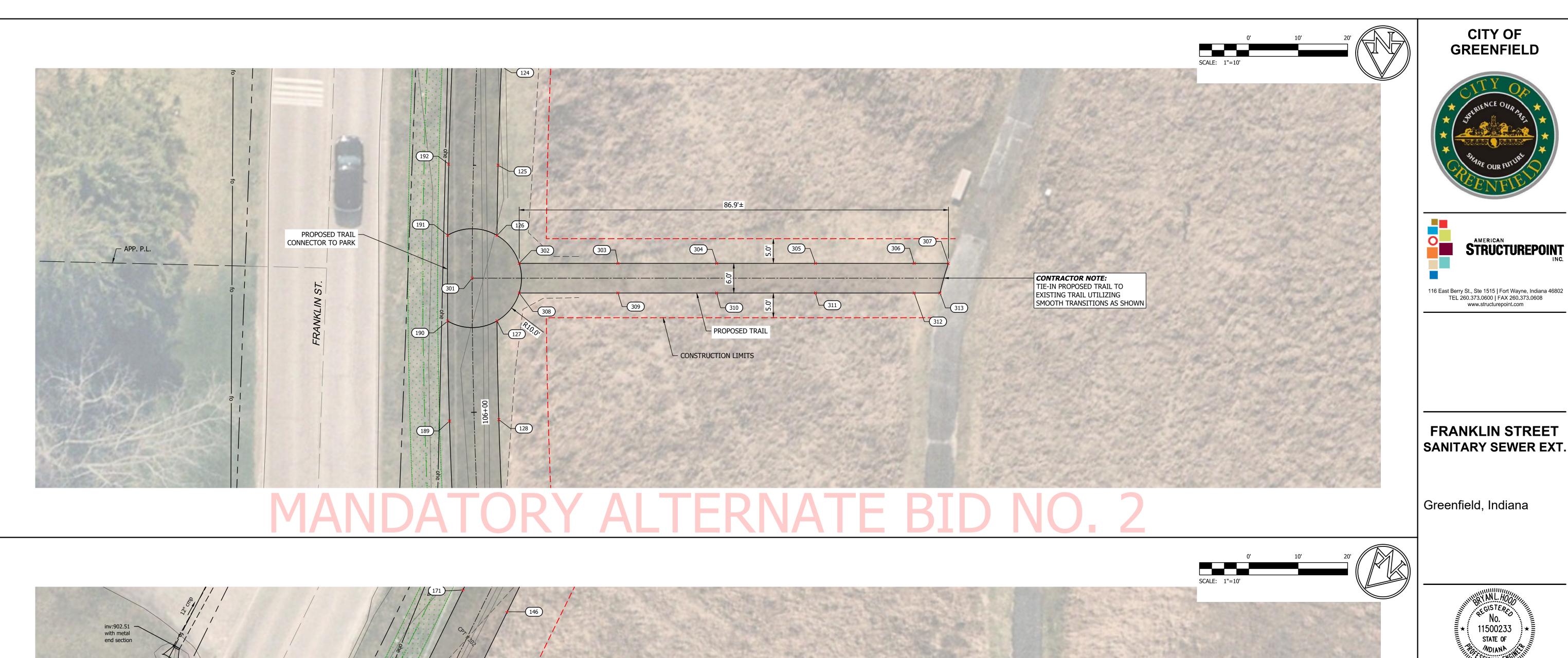
	REVISION SCHEDULE		
NO.	DESCRIPTION	NC	DATE
Proje	Project Number 2		025.00749

POINT TABLE: TRAIL

POINT NO. EX. EL. NORTHING EASTING

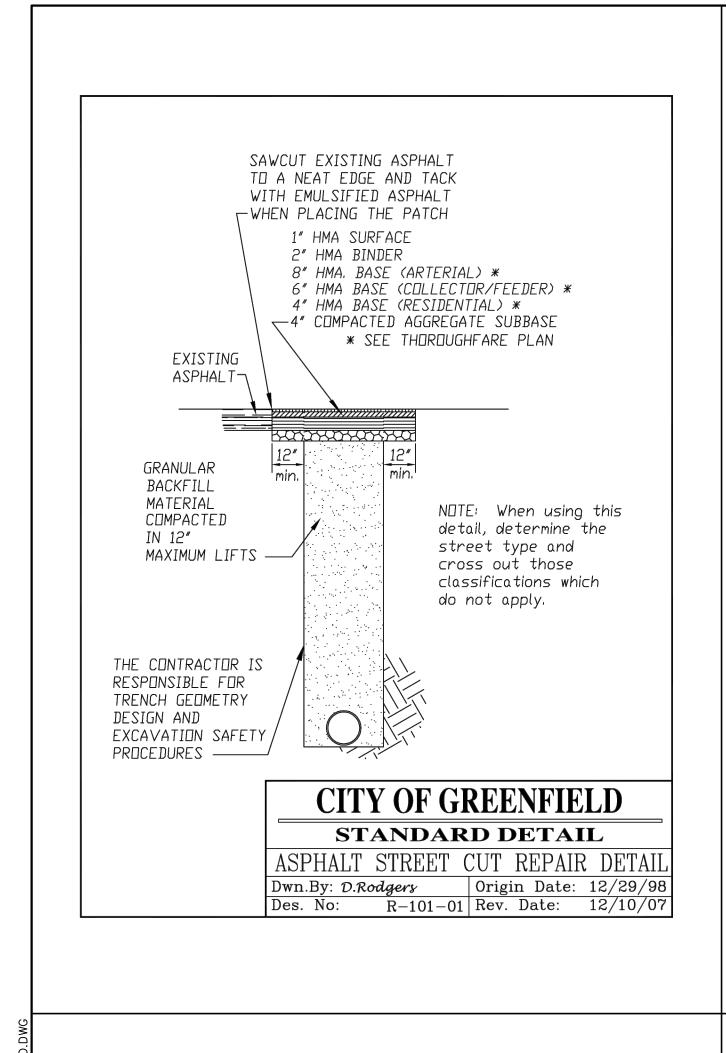
415 0.00 1667604.78 291685.11

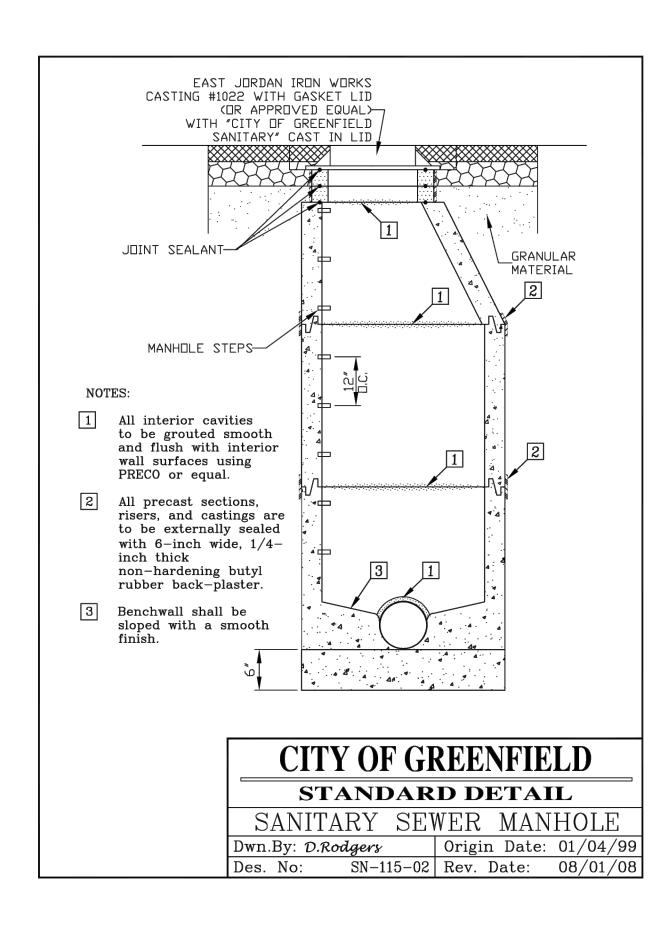
CONSTRUCTION **DETAILS**

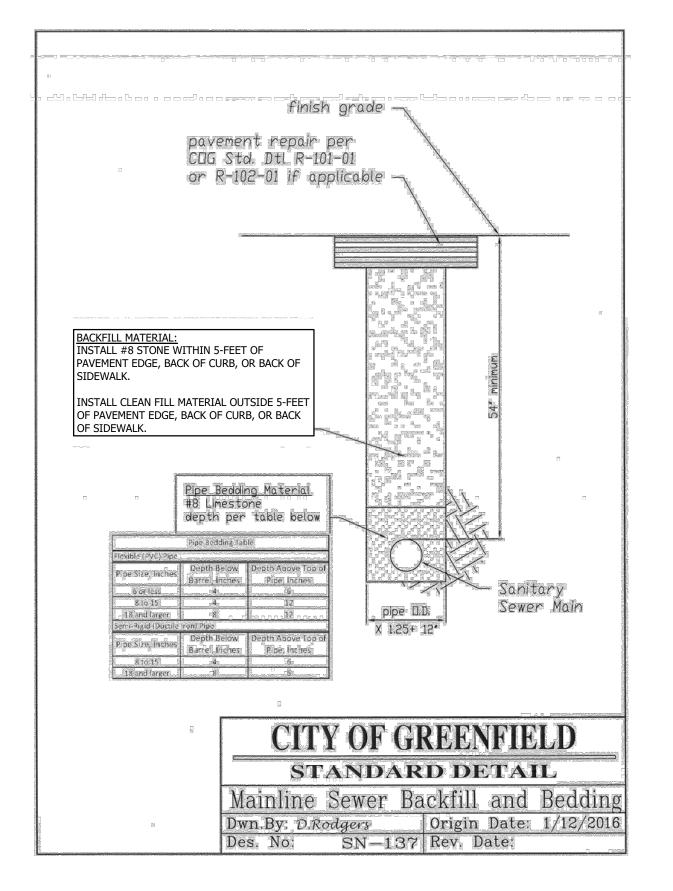


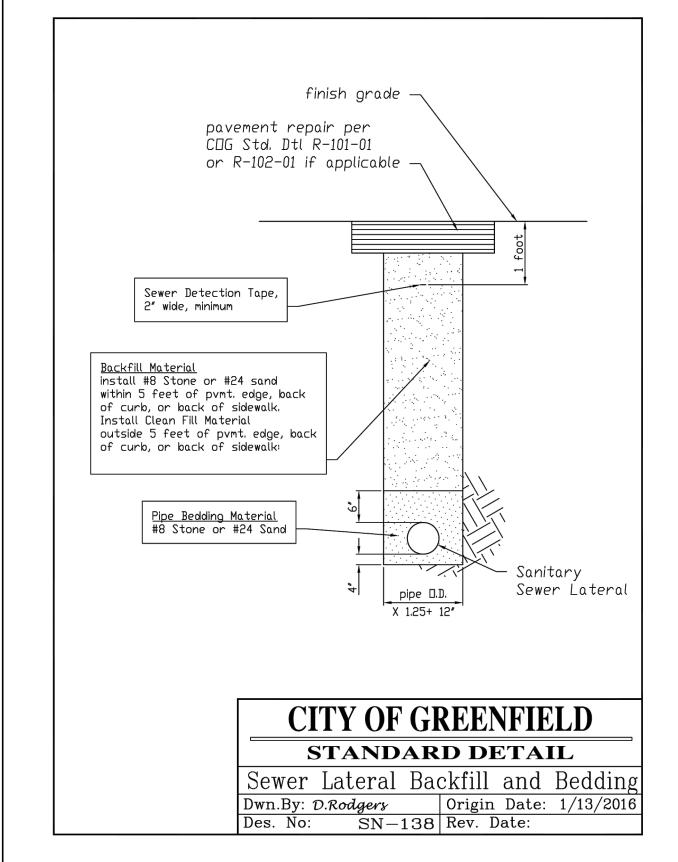


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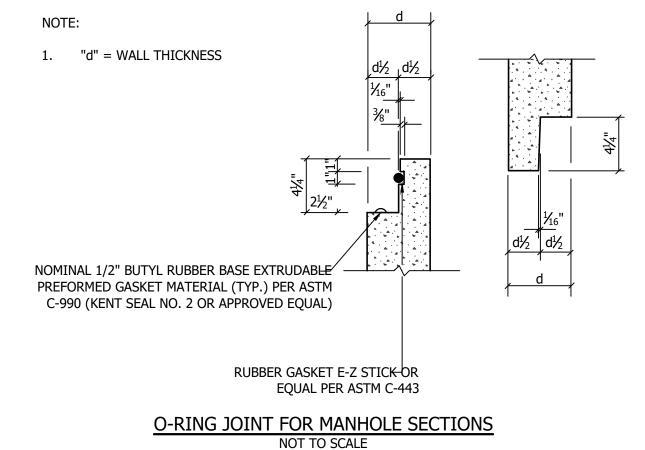


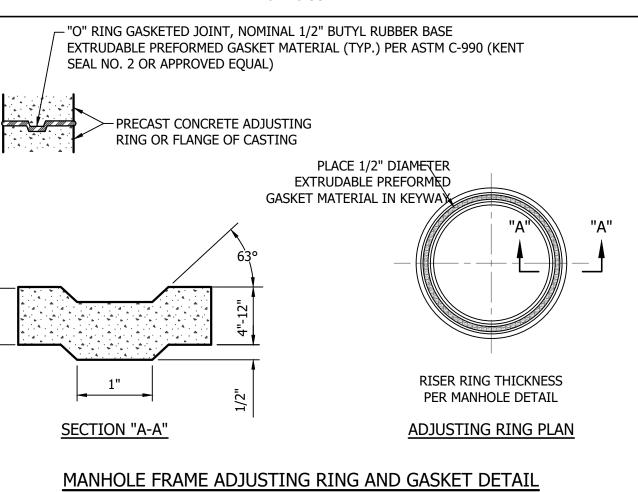


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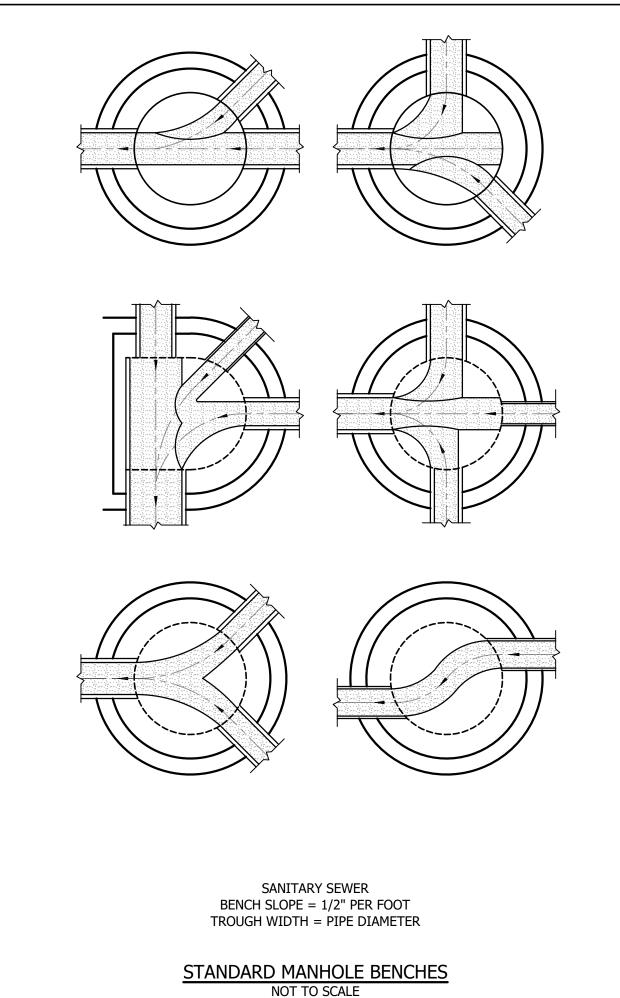
FRANKLIN STREET SANITARY SEWER EXT.

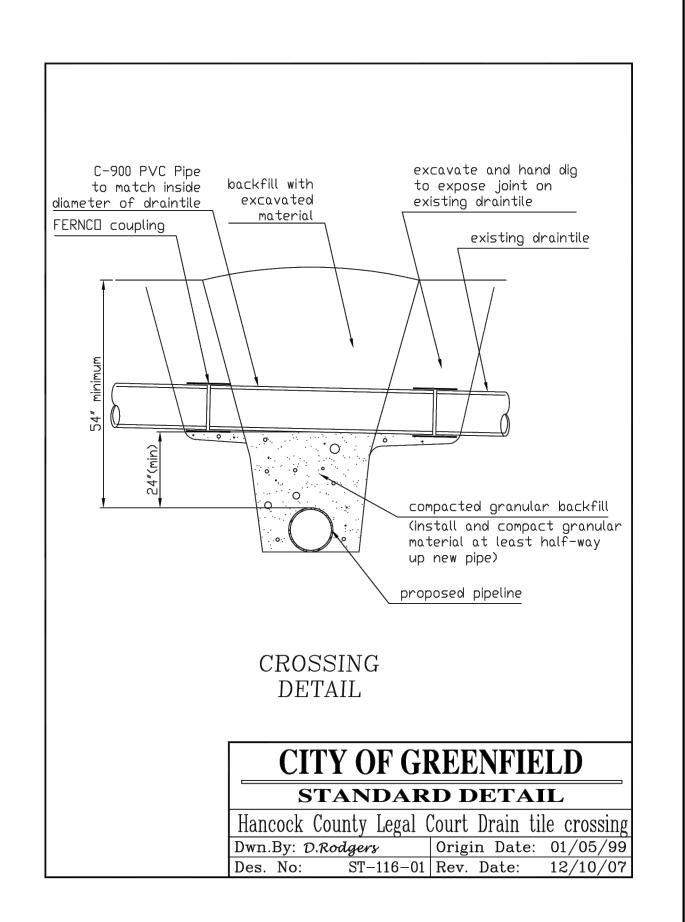
Greenfield, Indiana





NOT TO SCALE



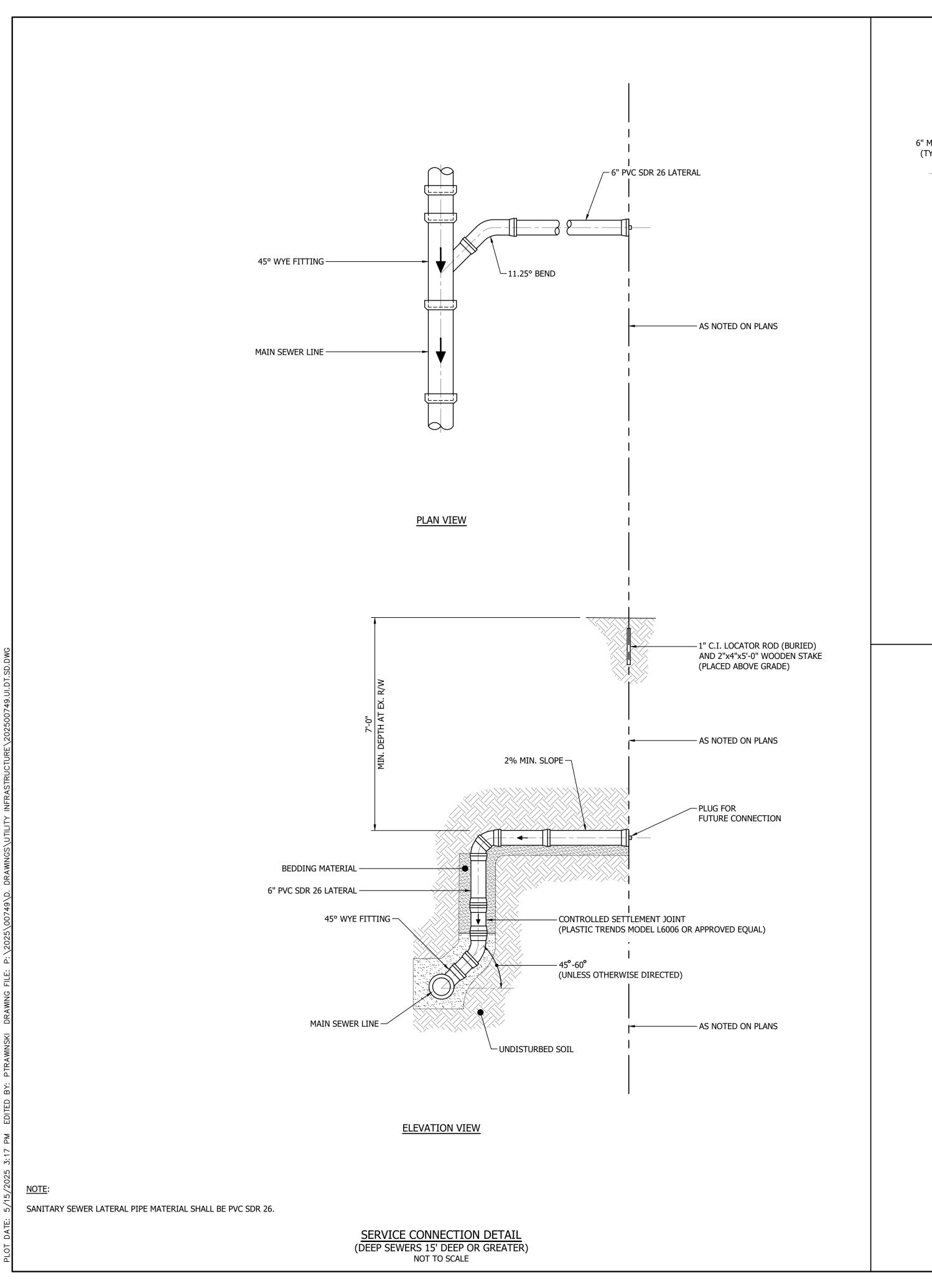


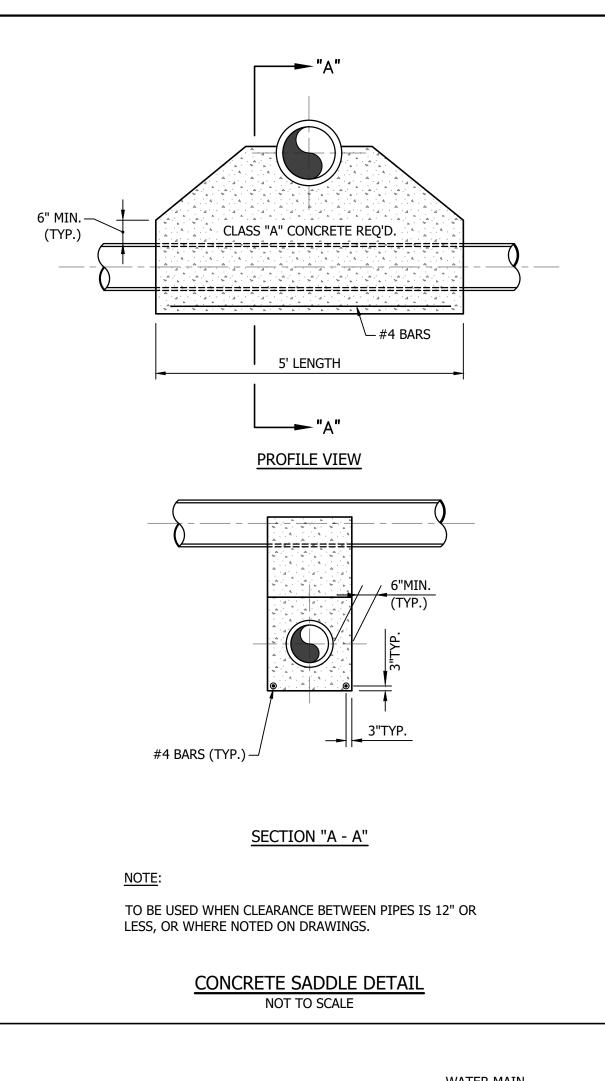


ISSUANCE INDEX
DATE:
5/15/2025
PROJECT PHASE:
100% PLANS

REVISION SCHEDULE			
NO.	DESCRIPTION	N	DATE
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STANDARD DETAILS





EXISTING WATER MAIN

SOLID SLEEVE

SOLID SLEEVE

45° BEND (TYP.)

USE RESTRAINED JOINTS UNLESS OTHERWISE SHOWN OR SPECIFIED.

WATER MAIN ADJUSTMENT DETAIL

FRANKLIN STREET SANITARY SEWER EXT.

CITY OF

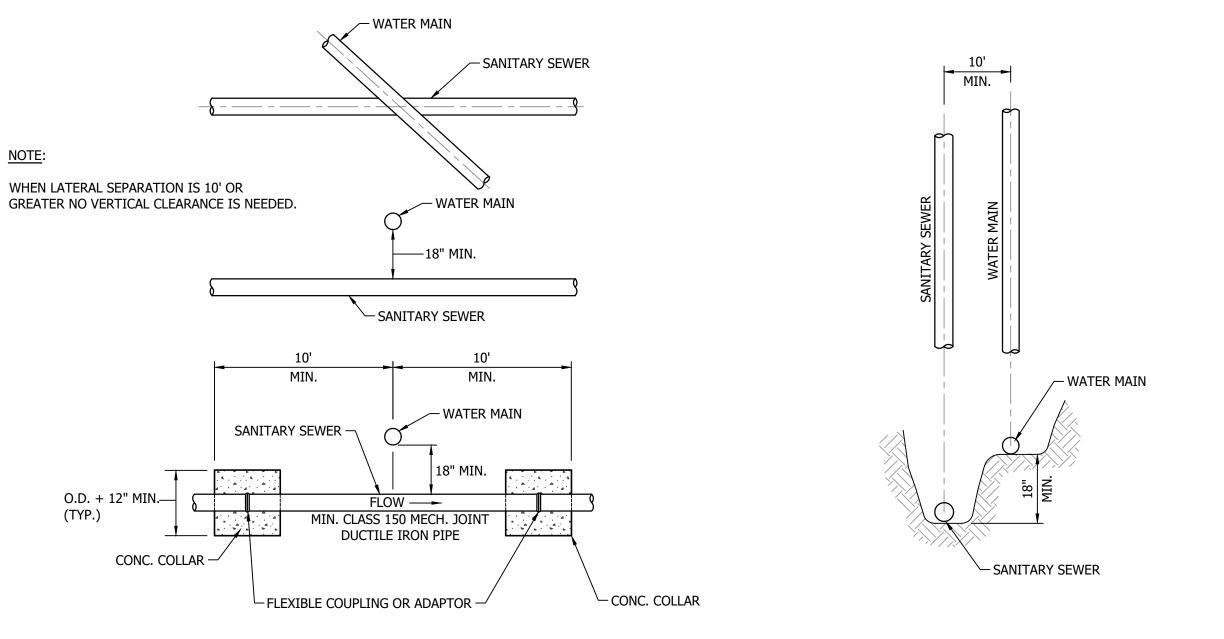
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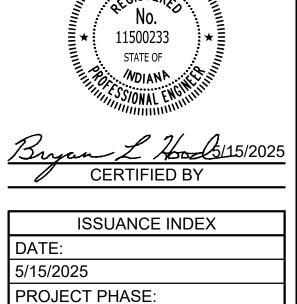
NOTE:

CROSSOVER & SEPARATION NOTES:

- 1. WHEN LATERAL SEPARATION IS 10' OR GREATER NO VERTICAL CLEARANCE IS NEEDED.
- 2. 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 SEPARATION SHALL BE MAINTAINED FOR 10 FEET EACH WAY OF THE CROSSING.
- 3. 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.
- 4. 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



100% PLANS

	REVISION SCHEDULE		
NO.	DESCRIPTION	N	DATE
Project Number 2025.00749			

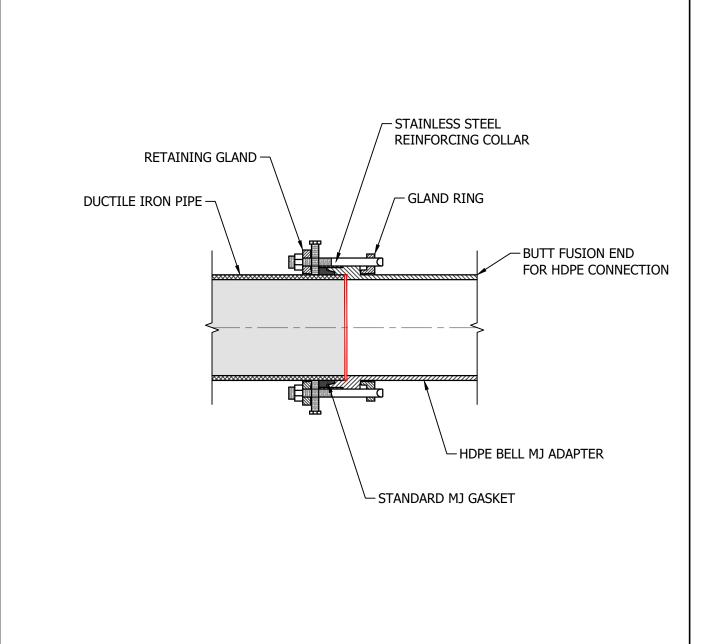
STANDARD DETAILS

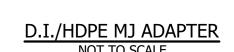
	LENGTH OF PIPE (FEET) WITH RESTRAINED JOINTS ON EACH SIDE OF FITTING					
PIPE SIZE (INCHES)			FIT	TINGS		
	TEE * BRANCH	90° BEND	45° BEND	22.5° BEND	11.25° BEND	VALES & DEAD DENDS
4	1	15	6	3	2	53
6	9	22	9	4	2	74
8	18	27	11	6	3	97
10	25	33	14	7	4	117
12	33	39	16	8	4	136
14	41	44	18	9	5	158
16	48	50	21	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

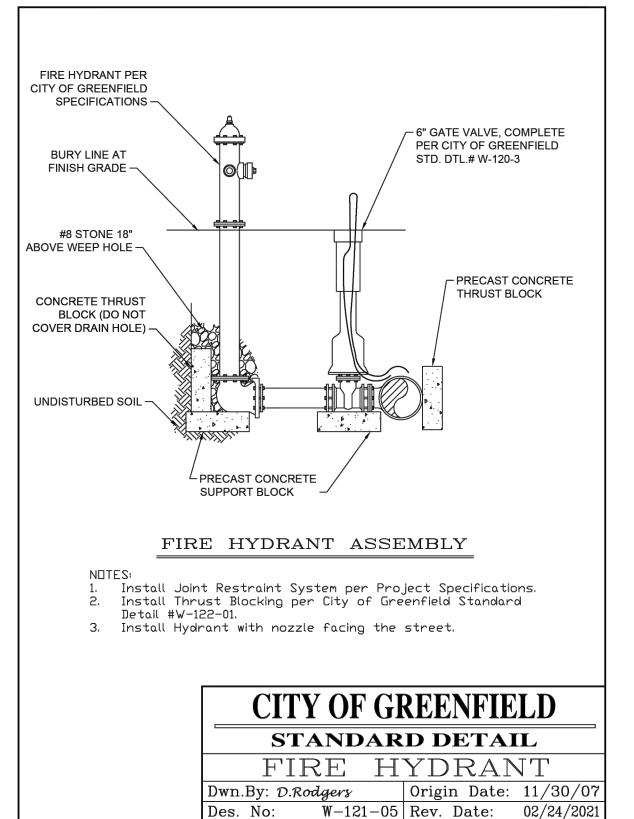
ADDITIONAL INFORMATION:

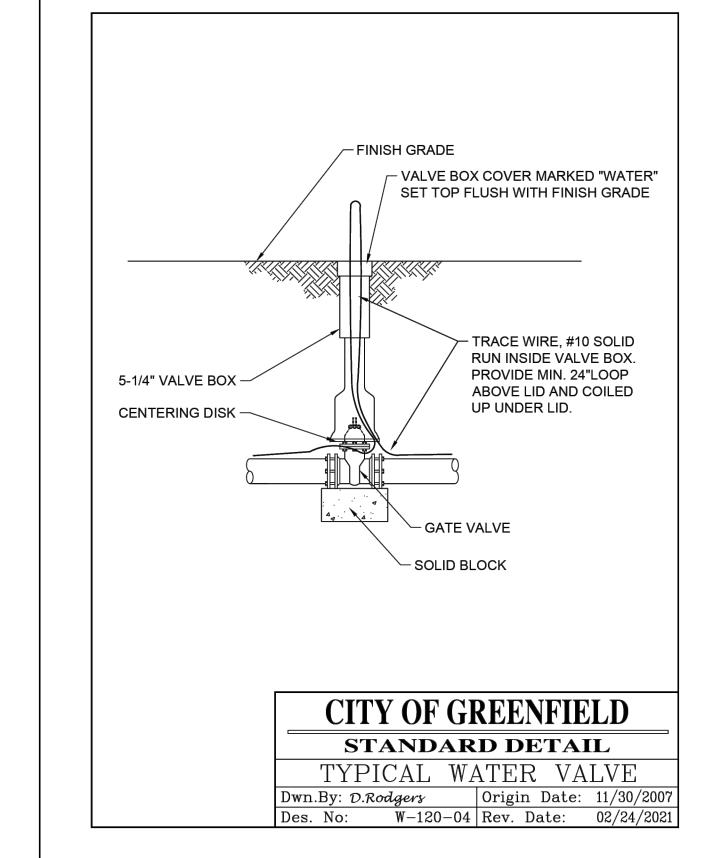
- 1. VALVE RESTRAINED JOINT LENGTHS SHALL BE TREATED AS A DEAD END.
- 2. * ONE FULL LENGTH (18') OF PIPE ON BOTH SIDES OF BRANCH TO BE RESTRAINED.
- 3. BENDS LISTED ABOVE ARE HORIZONTAL BENDS. TEST PRESSURE BASED ON 150 PSI.
- 4. CALCULATIONS ABOVE BASED ON POLYWRAPPED DUCTILE IRON PIPE.





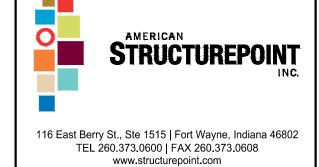






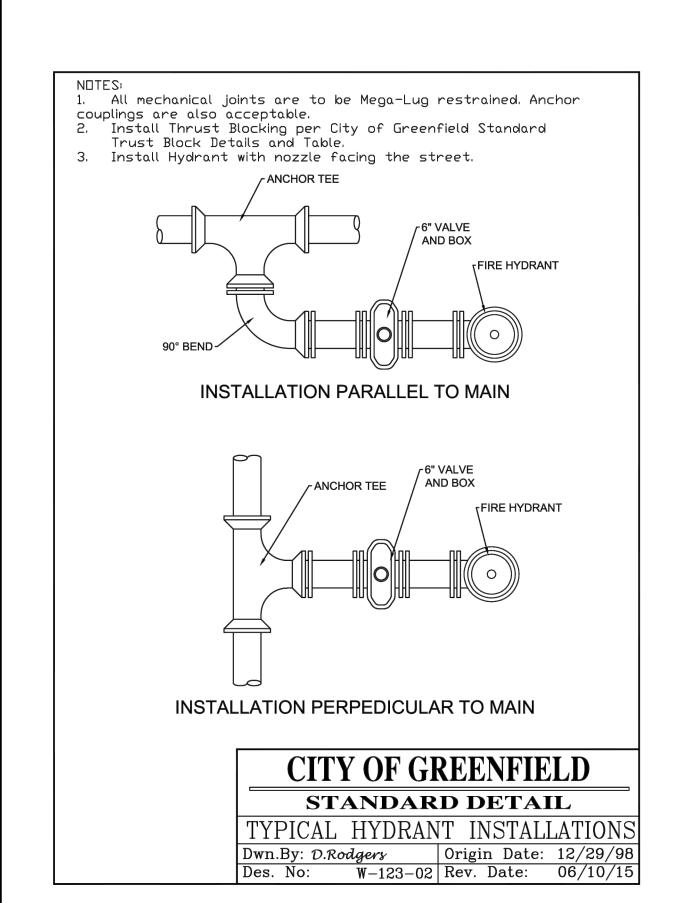


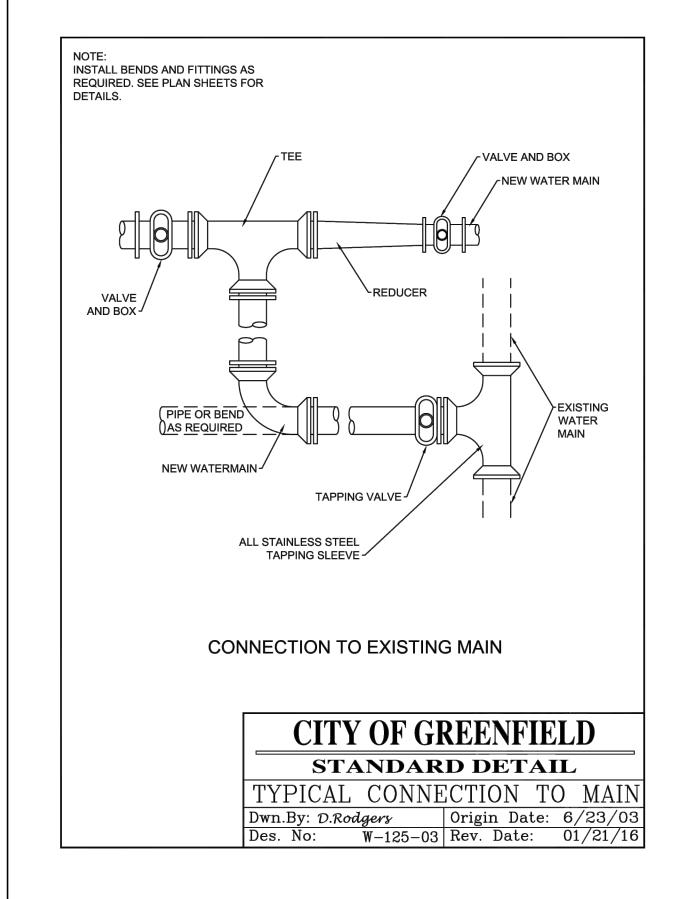


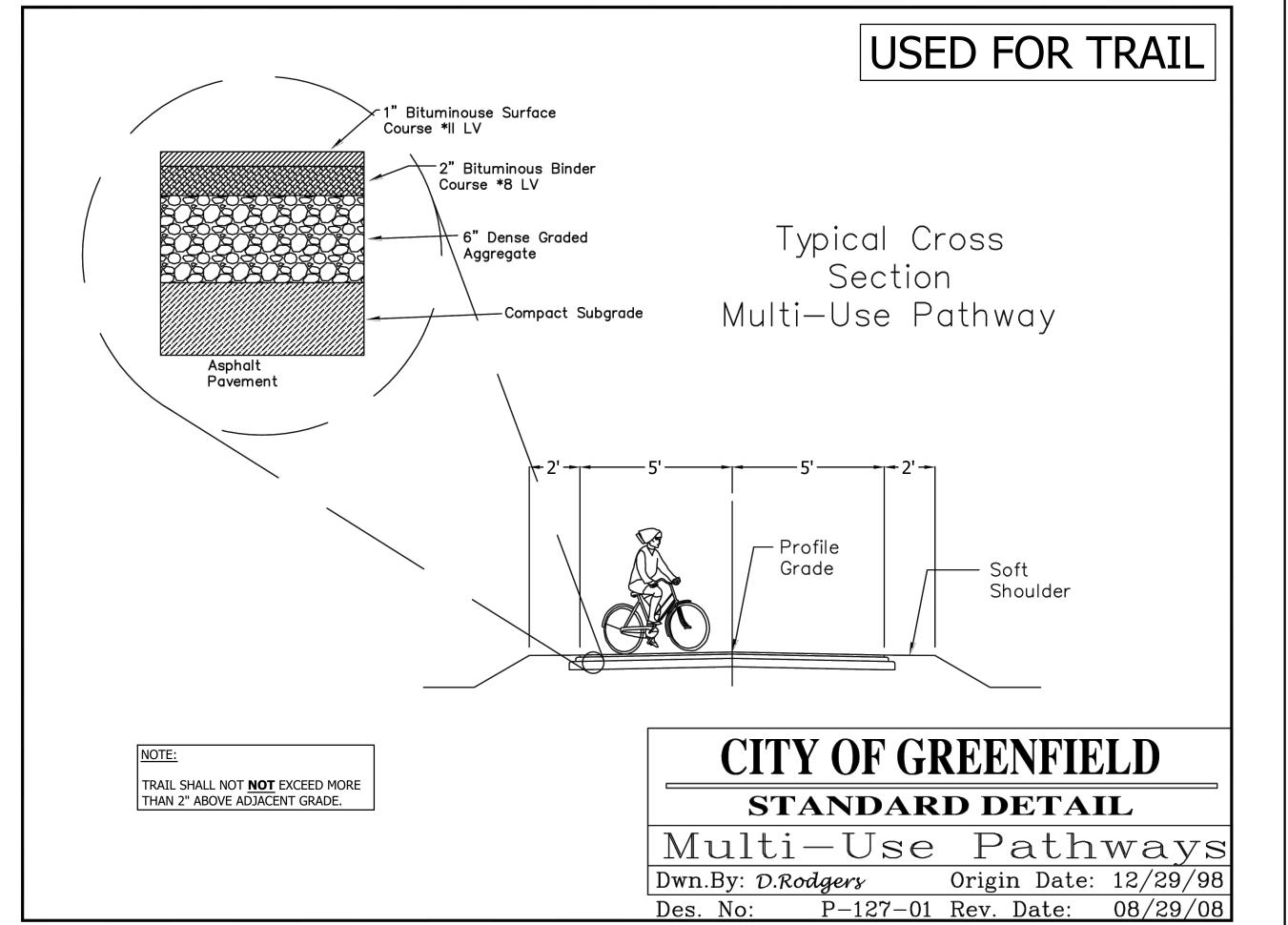


FRANKLIN STREET
SANITARY SEWER EXT.

Greenfield, Indiana





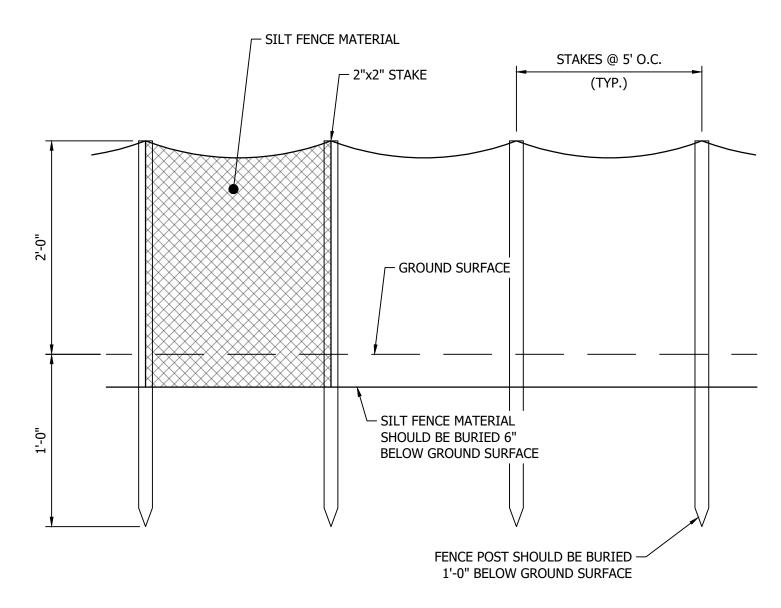




100% PLANS

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STANDARD DETAILS

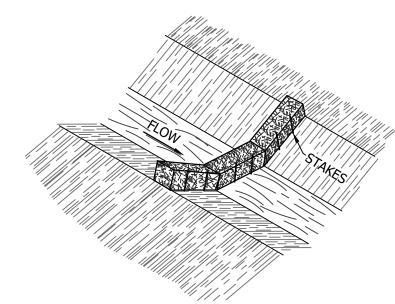


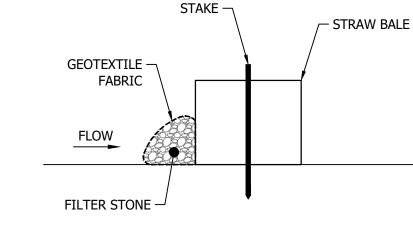
SILT FENCE

- 1. SILT FENCE SHALL BE A MACHINE PRODUCED, NON-WOVEN GEOTEXTILE OF 100% POLYPROPYLENE MEETING THE PHYSICAL PROPERTIES BELOW.
- 2. ALL STAKES SHALL BE 2"x2" HARDWOOD 36" TALL WITH 24" TALL LATH STAPLED TO STAKES OVER FABRIC AS REINFORCEMENT.
- 3. ALL SILT FENCE SHALL BE PREFABRICATED BY THE SUPPLIER. NO FIELD ASSEMBLY WELL 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:

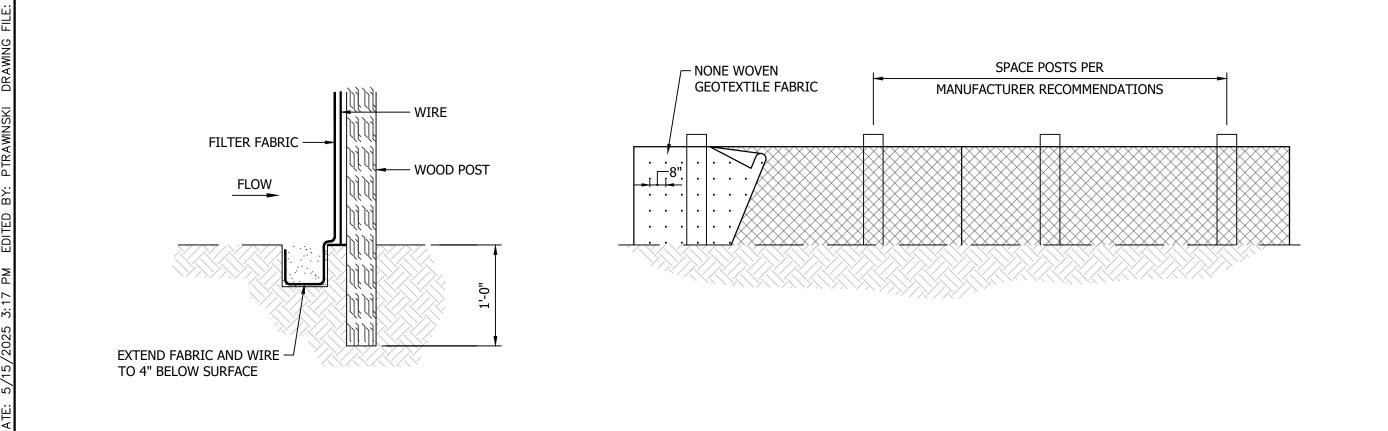
STRAW BALES SHALL BE PLACED AND MAINTAINED IN SWALE TO PREVENT SILT AND DEBRIS FROM ENTERING INTO DOWNSTREAM DRAINAGE FACILITIES DURING ALL CONSTRUC- TION AND SHALL REMAIN IN PLACE UNTIL ADEQUATE VEGETATION IS ACHIEVED WITHIN THE SITE. SUCH STRAW BALES SHALL BE FIRMLY SECURED THE GROUND WITH FENCING.

NOTE

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

DRAINAGE SWALE STRAW BALE CHECK DAM

NOT TO SCALE



SILT FENCE CONSTRUCTION

TEMPORARY SEEDING

TEMPORARY SEEDING SPECIFICATIONS				
SEED SPECIES	RATE PER ACRE	PLANTING DEPTH	OPTIMUM DATES	
WHEAT OR RYE		1" TO 1½"	9/15 - 10/30	
SPRING OATS	100 LBS	1"	3/1 - 4/15	
Annual Ryegrass	40 LBS	<u>1</u> "	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

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

MAINTENANCE

- 1. INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- 2. CHECK FOR EROSION OR MOVEMENT OF MULCH AND REPAIR IMMEDIATELY.
- 3. MONITOR FOR EROSION DAMAGE AND ADEQUATE COVER (80 PERCENT DENSITY); RESEED, FERTILIZE, AND APPLY MULCH WHERE NECESSARY.
- 4. IF NITROGEN DEFICIENCY IS APPARENT, TOP-DRESS FALL SEEDED WHEAT OR RYE SEEDING WITH 50 POUNDS PER ACRE OF NITROGEN IN FEBRUARY OR MARCH.
- 5. 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 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 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 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

- 1. 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 FIRMING 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.)
- 2. MULCH ALL SEEDED AREAS, AND USE APPROPRIATE METHODS TO ANCHOR THE MULCH IN PLACE.
- 3. 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.
- 4. AN OAT OR WHEAT COMPANION OR NURSE CROP MAY BE USED WITH ANY OF THE ABOVE PERMANENT SEEDING MIXTURES, AT THE FOLLOWING RATES:
- a. SPRING OATS-10 TO 24 LBS PURE LIVE SEED PER ACRE.
- b. WHEAT-NO MORE THAN 30 LBS PURE LIVE SEED PER ACRE.

MAINTENANCE

- 1. INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS UNTIL THE VEGETATION IS SUCCESSFULLY ESTABLISHED.
- 2. CHARACTERISTICS OF A SUCCESSFUL STAND INCLUDE VIGOROUS DARK GREEN OR BLUISH-GREEN SEEDLINGS WITH A UNIFORM VEGETATIVE COVER DENSITY OF 90 PERCENT OR MORE.
- 3. CHECK FOR EROSION OR MOVEMENT OF MULCH.
- 4. REPAIR DAMAGED, BARE, GULLIED, OR SPARSELY VEGETATED AREAS AND THEN FERTILIZE, RESEED, AND APPLY AND ANCHOR MULCH.
- 5. 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.
- 6. 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.)
- 7. IF ADDITIONAL FERTILIZATION IS NEEDED TO GET A SATISFACTORY STAND, DO SO ACCORDING TO SOIL TEST RECOMMENDATIONS.
- 8. ADD FERTILIZER THE FOLLOWING GROWING SEASON. FERTILIZE ACCORDING TO SOIL TEST RECOMMENDATIONS.
- 9. 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 Holds/15/2025 CERTIFIED BY

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

	REVISION SCHEDULE			
NO.	DESCRIPTI	ON	DATE	
Project Number			025.00749	

EROSION CONTROL DETAILS