Fall Creek Fall Creek Bendleton Juvenile Wy 90) S Restricted to the state of th

VICINITY MAP
NO SCALE

SHEET INDEX SHEET NO DESCRIPTION 1 TITLE SHEET 2 - 3 GENERAL NOTES & DETAILS 4 - 5 EXISTING TOPOGRAPHY 6 - 7 DEMO PLAN 8 STORM DRAIN PLAN & PROFILE 9 YARD DRAIN PLAN & PROFILE 10 STORM STRUCTURE AND PIPE TABLES

TOWN OF PENDLETON



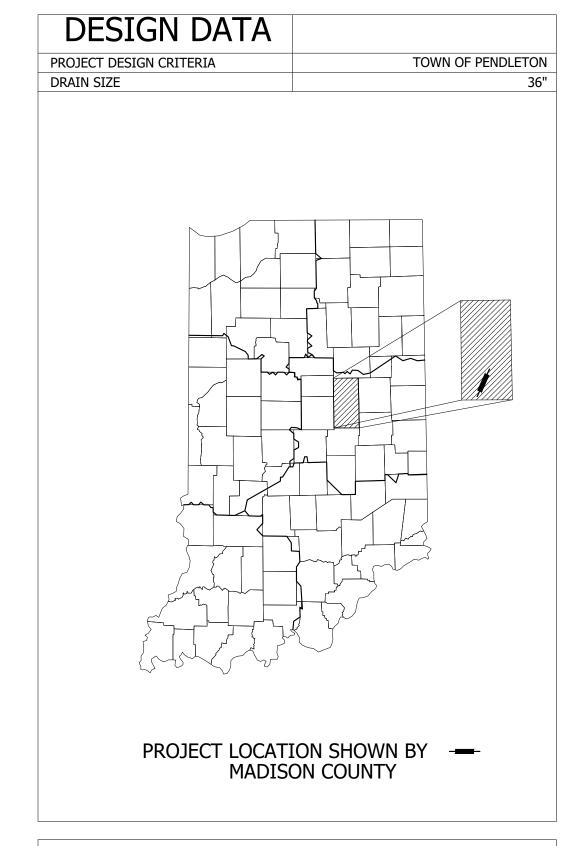
ELM STREET DRAIN RECONSTRUCTION

Project Description:

Replacing Existing Drain Starting on the North Side of W Elm Street following the Existing Drain and Crossing S Main Street in Pendleton in Section 21, T-18-N, R-7-E, Fall Creek Township, Madison County, Indiana.



LOCATION
TOWN OF PENDLETON
NO SCALE



LATITUDE: 39° 59' 56" N LONGITUDE: 85° 44' 48" V

OPERATING AUTHORITIES

GAS
Vectren (Anderson)
Jon Eastham
1800W. 26th St.
Muncie, IN 47302
jeastham@vectren.com

ELECTRIC
Town of Pendleton
Craig Switzer
100 W State St.
Pendleton, IN 46064
cswitzer@town.pendleton.in.us

FIBER
Frontier
Steve Coslow
Noblesville, IN
steve.costlow@ftr.com
Phone: (317) 984-9010

Phone: (765) 208-0104

ANTTARY
all Creek Regional Waste District
m McCurdy
D Box 59
endleton, IN 46064
nccurdy@fcrwd.com
none: (765) 778-7544

STORM
Town of Pendleton
Jim Cook
100 W State St.
Pendleton, IN 46064
jcook@town.pendleton.in.us
Phone: (765) 208-0097

jmcmillan@ninestarconnect.com Phone: (317) 323-2090

WATER

Town of Pendleton

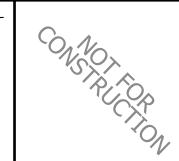
Ryan Brashears

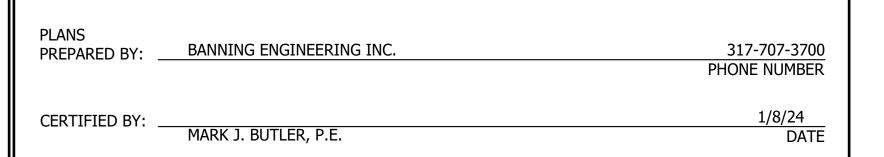
Ryan Brashears 100 W State St. Pendleton, IN 46064 rbrashears@town.pendleton.in.us Phone: (765) 778-2173

ACCEPTED BY: BID SET



BUS: (317) 707-3700, FAX: (317) 707-3800
E-MAIL: Banning@BanningEngineering.com
WEB: www.BanningEngineering.com





BRIDGE FILE

N/A

DESIGNATION

N/A

SURVEY BOOK

SHEET

N/A

1 of 10

CONTRACT

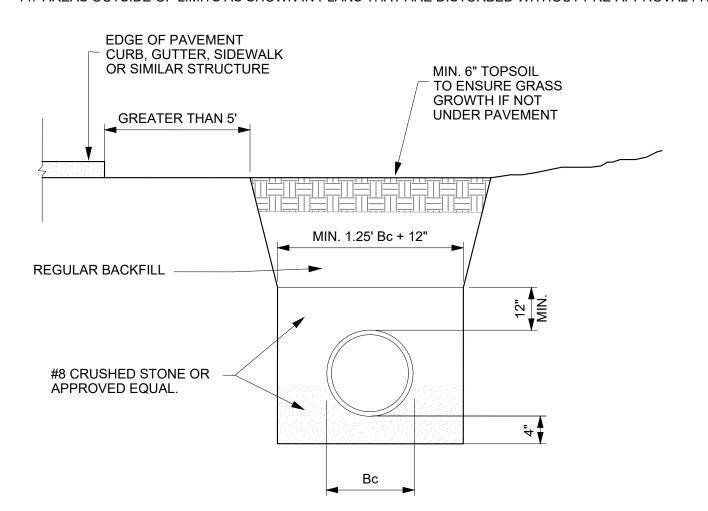
PROJECT

N/A

22402

ENERAL NOTES

- 1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS INCLUDED IN THE BID PACKAGE.
- 2. DRAIN RECONSTRUCTION LIMITS ARE AS SHOWN ON THE PLANS UNLESS OTHERWISE SPECIFIED.
- 3. MAINTENANCE OF TRAFFIC (MOT) IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE ACCESS TO RESIDENCES AND BUSINESSES DURING THE ENTIRE CONSTRUCTION PERIOD. MOT DEVICES SHALL CONFORM TO THE GUIDELINES SHOWN IN THE LATEST EDITION OF THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (IN MUTCD). MOT LANE CLOSURE METHODS AND PROCEDURES ARE SUBJECT TO REVIEW AND APPROVAL OF THE OWNER OR OWNER'S REPRESENTATIVE.
- 4. THE WORK IS MAINLY LOCATED IN RESIDENTIAL AREAS. THE CONTRACTOR SHALL NOTIFY ALL RESIDENTS ADJACENT TO THE WORK SITE IN WRITING NO LESS THAN 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK.
- 5. CONTRACTOR IS TO MINIMIZE AREA OF IMPACT AS BEST AS POSSIBLE.
- 6. AT THE END OF EACH DAY OR WHEN THE WORK IS TO BE DISCONTINUED FOR A PERIOD OF TIME THE CONTRACTOR SHALL INSTALL A TAPERED JOINT AT THE END OF PAVING TO ALLOW TRAFFIC A TRANSITION.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING AN HMA MIX DESIGN NO LATER THAN 10 DAYS PRIOR TO
- 8. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IN CONSTRUCTION AREAS.
- 9. CONTRACTOR TO RESTORE SITE CONDITIONS IN CONSTRUCTION AREA AFTER WORK IS COMPLETED
- 10. CONTRACTOR SHALL NOTIFY OWNER PRIOR TO THE WORK BEING COMPLETED IF A CONTRACT QUANTITY IS NOT SUFFICIENT TO PERFORM THE WORK. CONTRACT QUANTITY OVERAGES WILL NOT BE PAID FOR WITHOUT PRIOR WRITTEN NOTIFICATION TO THE OWNER.
- 11. IF EXISTING BLIND TIES ARE ENCOUNTERED, CONTRACTOR TO RE-ESTABLISH TIE-INS.
- 12. AT THE END OF EACH WORK DAY OR WHEN THE WORK IS TO BE DISCONTINUED FOR A PERIOD OF TIME, THE CONTRACTOR SHALL SECURE AREAS OF EXCAVATION WITH CAUTION TAPE, EQUIPMENT, AND SNOW FENCE.
- 13. TREE REMOVAL SHALL BE BETWEEN OCTOBER 31 AND APRIL 1 PER USFW REGULATIONS.
- 14. AREAS OUTSIDE OF LIMITS AS SHOWN IN PLANS THAT ARE DISTURBED WITHOUT PRE-APPROVAL FROM TOWN OR ENGINEER SHALL BE RESTORED AT THE EXPENSE OF THE CONTRACTOR.



-ALL BEDDING & INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS.

-A MINIMUM 9" CLEARANCE SHALL

BE PROVIDED ON EACH SIDE

OF THE INSTALLED PIPE

LEGEND

Bc = OUTSIDE DIAMETER D = INSIDE DIAMETER d = DEPTH OF BEDDING MATERIAL BELOW PIPE

- 6" # 53 STONE

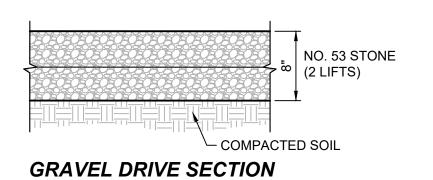
2' FLOWABLE FILL OVER # 8 STONE

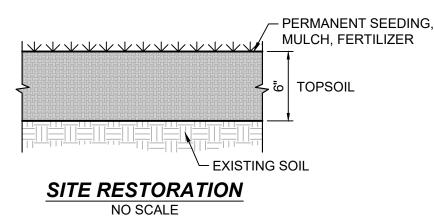
HDPE/PVC PIPE TRENCH DETAIL **GREATER THAN 5' FROM EDGE OF PAVEMENT**

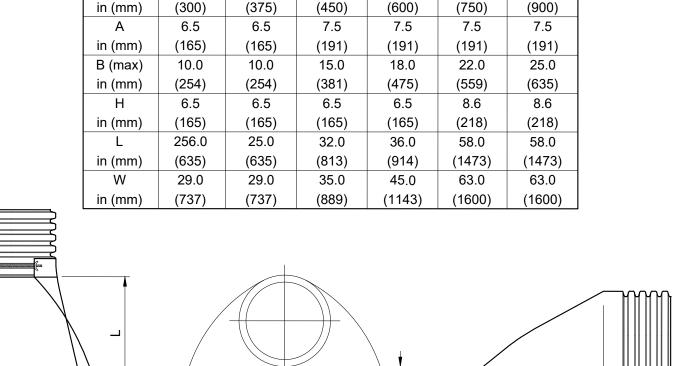
N0 SCALE

- 12" MIN. OF MIN. 4,000 PSI (8 BAG MIX) AIR-ENTRAINED CONCRETE WITH FIBER MESH (MATCH EXISTING PAVEMENT THICKNESS) 12" MIN. LAP, TYPICAL BOTH SIDES OF TRENCH --SAW CUT BOTH SIDES OF TRENCH EXISTING PAVEMENT

> **OPEN CUT ROAD REPAIR** (PER TOWN STANDARDS)







PIPE DIAMTER, in (mm)

36

SIDE VIEW

MANHOLE CONFORMS

TO ASTM C478

Diameter

→ A |

TOP VIEW

12

Requirements

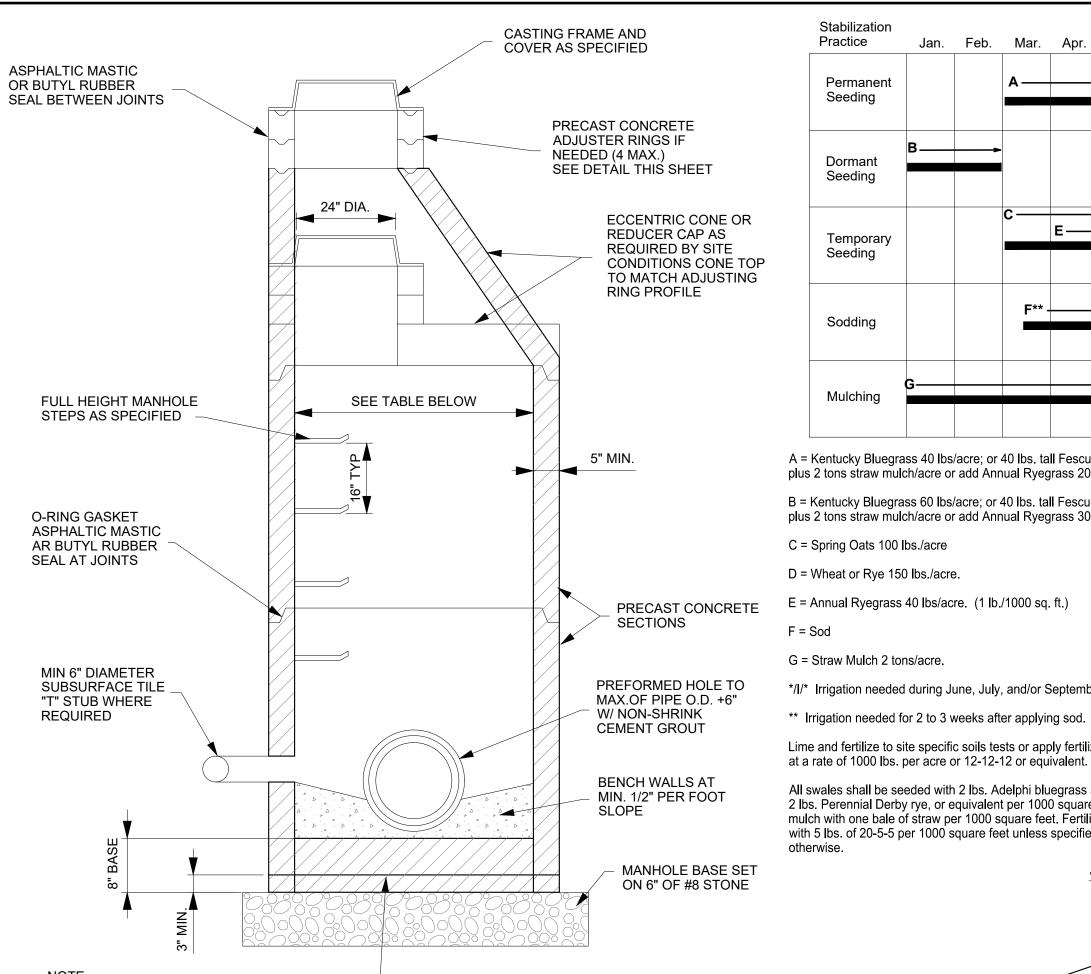
The invert of the pipe and the end section shall be at the same elevation. The ADS Flared End Section shall be high density polyethylene meeting ASTM D3350 minimum cell classification 213320C; contact manufacturer for additional cell classification information. The metal threaded fastening rod shall be stainless steel.

FRONT VIEW

HDPE END SECTION STORM-**SEWER** GRATE **STRAPS** REINFORCED -CORNERS MANAGEABLE 2 FOOT CONTAINMENT DUMPING STRAPS STORM INLET

- Remove all accumulated sediment and debris weekly or after each 1/2" rainfall event. Remove sediment from bag after bag is 1/3 full.
- If bag is damaged, remove bag and replace with new.

INLET SACK PROTECTION NO SCALE



STORM MANHOLE

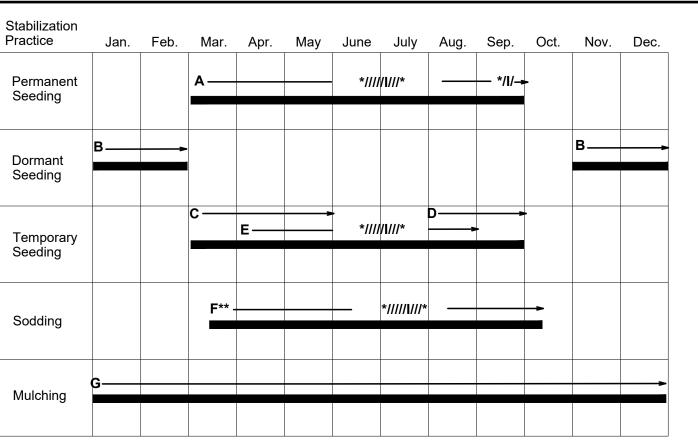
#4 RE-BARS @ 12" O.C.

EACH WAY (STEEL AREA=

0.12 SQ.IN./SQ.FT. OR APPROVED EQUAL)

N0 SCALE

PIPES ENTERING OR LEAVING AT A 0-45 DEGREE ANGLE	PIPES ENTERING OR LEAVING AT A 46-90 DEGREE ANGLE
48" DIA.	48" DIA.
48" DIA.	60" DIA.
60" DIA.	60" DIA.
60" DIA.	72" DIA.
	LEAVING AT A 0-45 DEGREE ANGLE 48" DIA. 48" DIA. 60" DIA.



A = Kentucky Bluegrass 40 lbs/acre; or 40 lbs. tall Fescue; plus 2 tons straw mulch/acre or add Annual Ryegrass 20 lbs/acre.

B = Kentucky Bluegrass 60 lbs/acre; or 40 lbs. tall Fescue; plus 2 tons straw mulch/acre or add Annual Ryegrass 30 lbs/acre.

C = Spring Oats 100 lbs./acre

D = Wheat or Rye 150 lbs./acre.

E = Annual Ryegrass 40 lbs/acre. (1 lb./1000 sq. ft.)

F = Sod

G = Straw Mulch 2 tons/acre.

/I/ Irrigation needed during June, July, and/or September.

Lime and fertilize to site specific soils tests or apply fertilizer

at a rate of 1000 lbs. per acre or 12-12-12 or equivalent.

All swales shall be seeded with 2 lbs. Adelphi bluegrass and 2 lbs. Perennial Derby rye, or equivalent per 1000 square feet. mulch with one bale of straw per 1000 square feet. Fertilize with 5 lbs. of 20-5-5 per 1000 square feet unless specified

MAINTENANCE

the seedbed.

Inspect weekly and after each 1/2" rainfall event, until the stand is successfully established. (Characteristics of a successful stand include: vigorous dark green or bluish-green seedlings; uniform density with nurse plants, legumes, and grasses well inter-mixed; green leaves; and the perennials remaining green throughout the summer, at least at the

Plan to add fertilizer the following growing season according to soil test recommendations.

Repair damaged, bare, or sparse areas by filling any gullies, re-fertilizing, over- or re-seeding, and mulching. If plant cover is sparse or patchy, review the plant materials chosen, soil fertility, moisture condition, and mulching; then repair the affected area

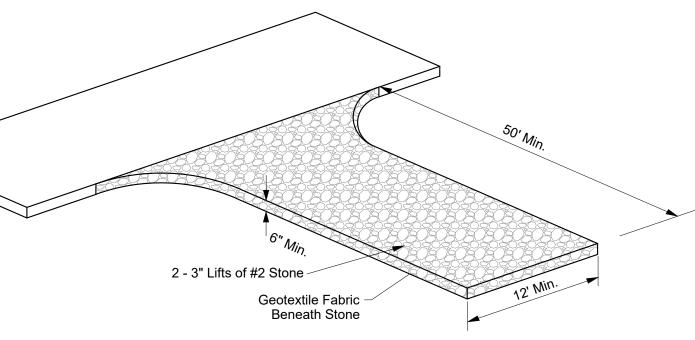
either by over-seeding or by re-seeding and mulching after re-preparing

If vegetation fails to grow, consider soil testing to determine acidity or nutrient deficiency problems. (Contact your SWCD or Cooperative Extension office for assistance.)

If additional fertilization is needed to get a satisfactory stand, do so according to the soil test recommendations.

SEEDING CHART

NO SCALE



*Inspect entrance pad and sediment disposal area weekly and after each 1/2" rainfall event or heavy use. *Reshape pad as needed for drainage and runoff control. *Topdress with clean stone as needed.

*Immediately remove mud and sediment tracked or washed onto public roads by brushing or sweeping. Flushing should only be used if the water is conveyed into a sediment trap or basin *Repair any broken road pavement immediately.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE / EXIT

LESS THAN 2 ACRES NO SCALE

	REVISIONS	
NUMBER	DESCRIPTION	DATE



NO SCALE

853 COLUMBIA ROAD, SUITE #101 PLAINFIELD, IN 46168

BUS: (317) 707-3700, FAX: (317) 707-3800

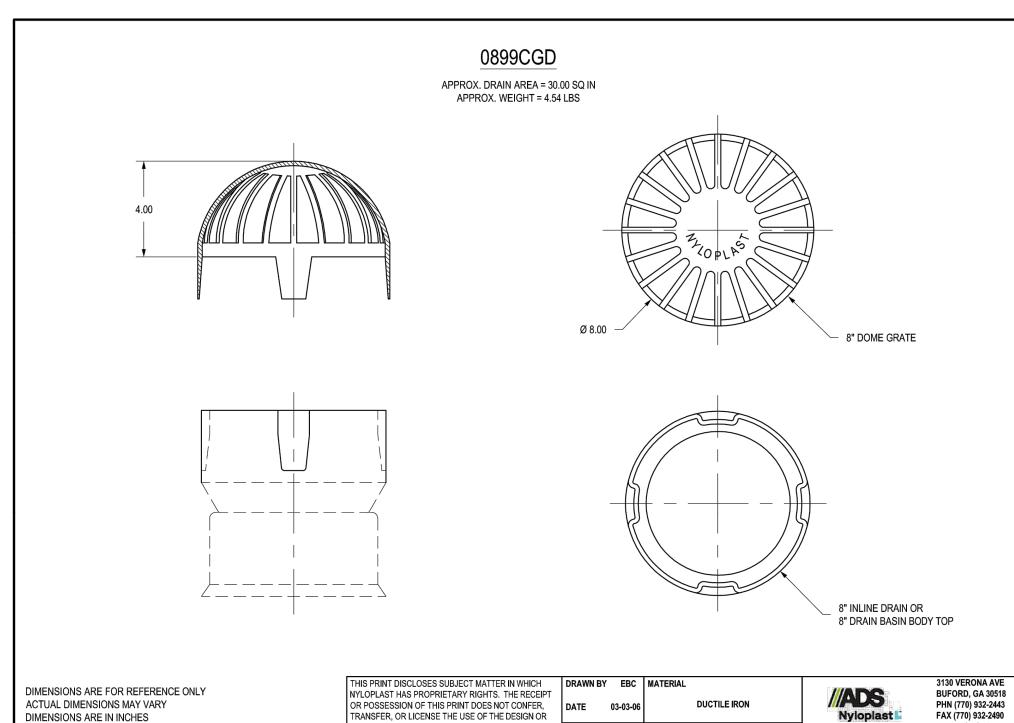
E-MAIL: Banning@BanningEngineering.com

WEB: www.BanningEngineering.com



RECOMMENDED FOR APPROVAL DESIGN ENGINEER								
DESIGNED: _	PBR	1/8/24	DRAWN:	PBR	1/8/24			
CHECKED: _	МЈВ	1/8/24	CHECKED:	МЈВ	1/8/24			

HORIZONTAL SCALE BRIDGE FILE N/A TOWN OF PENDLETON DESIGNATION **VERTICAL SCALE** N/A SURVEY BOOK SHEET N/A of **GENERAL NOTES & DETAILS** CONTRACT **PROJECT** 22402 N/A



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8 IN DOME GRATE ASSEMBLY

7001-110-197

ST DWG SIZE A SCALE 1:4 SHEET 1 OF 1 DWG NO.

CONTAINED HEREIN, OR MANUFACTURE OF ANY

IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST. ©2013 N

QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05

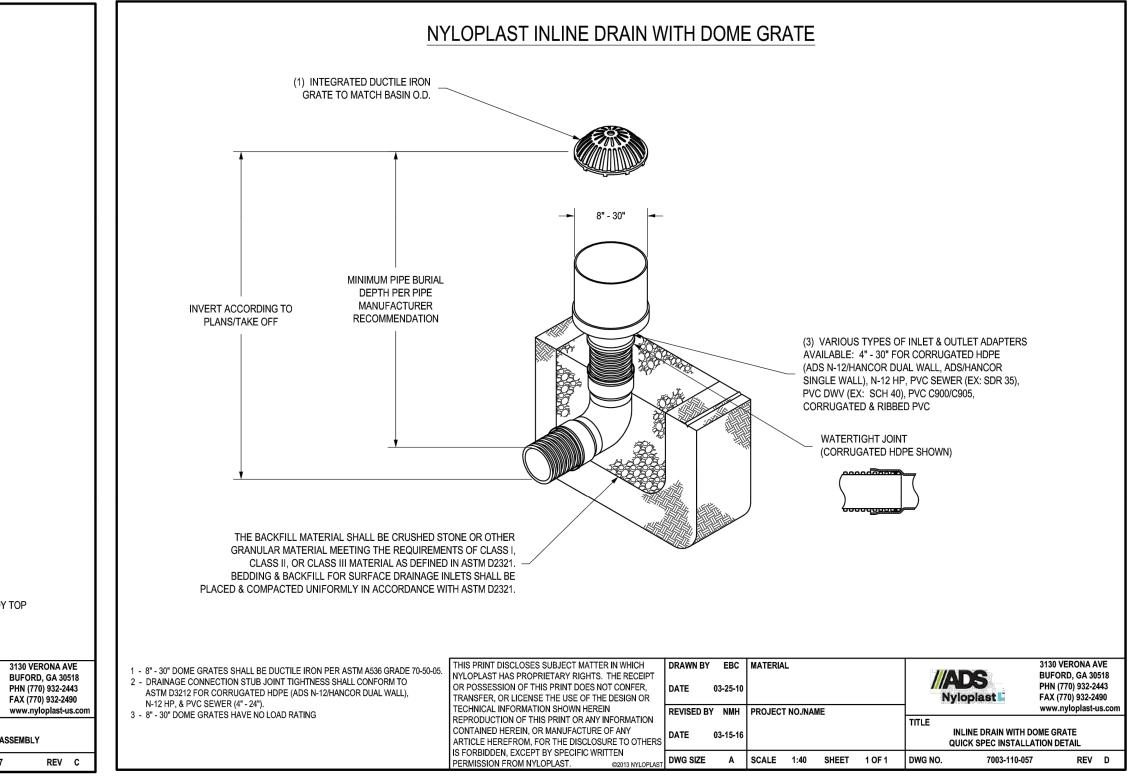
PAINT: CASTINGS ARE ELIPHISHED WITH A REACK PAINT.

CASTINGS ARE ELIPHISHED WITH A REACK PAINT.

PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT

7001-110-228

LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO.

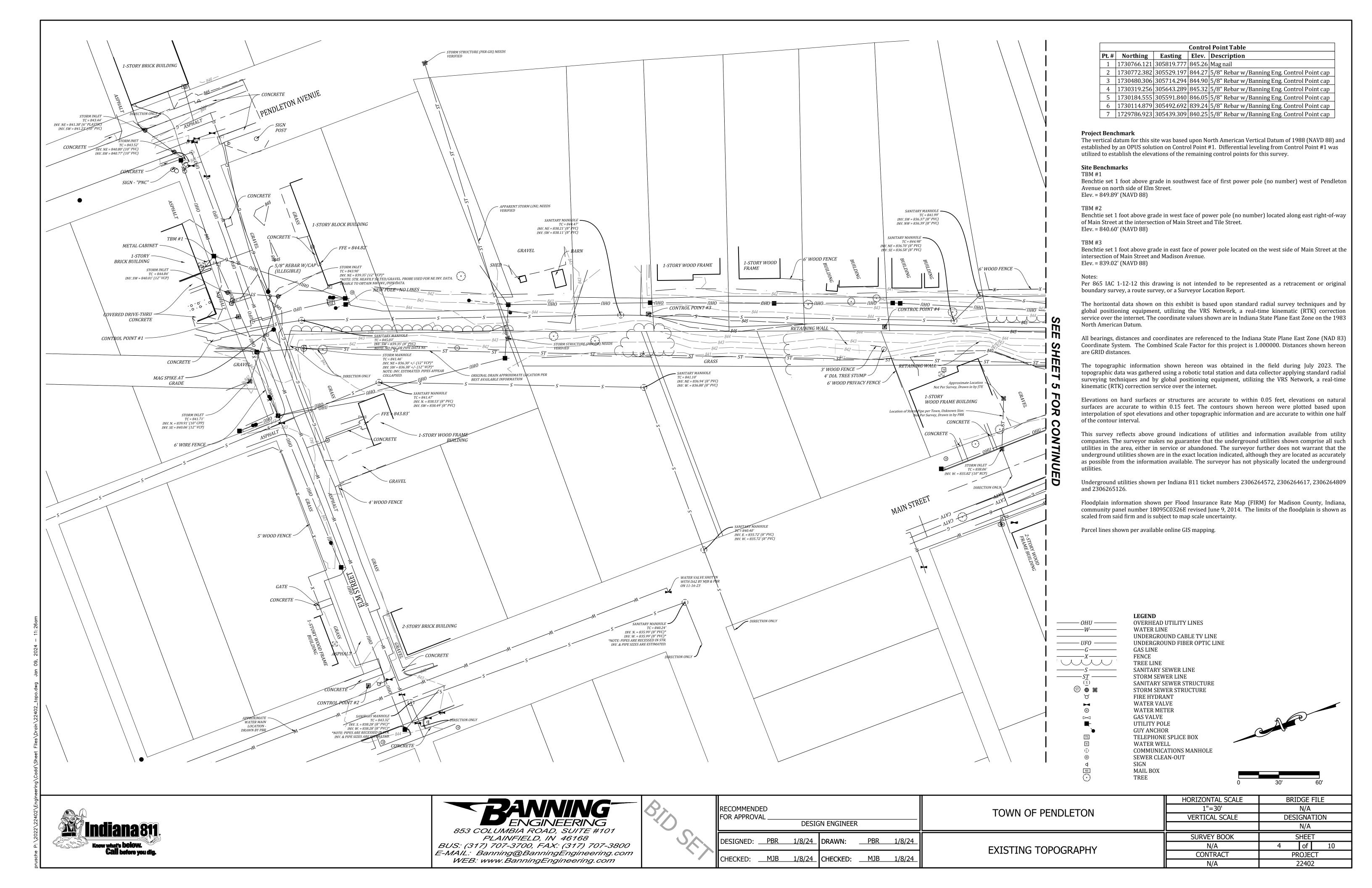


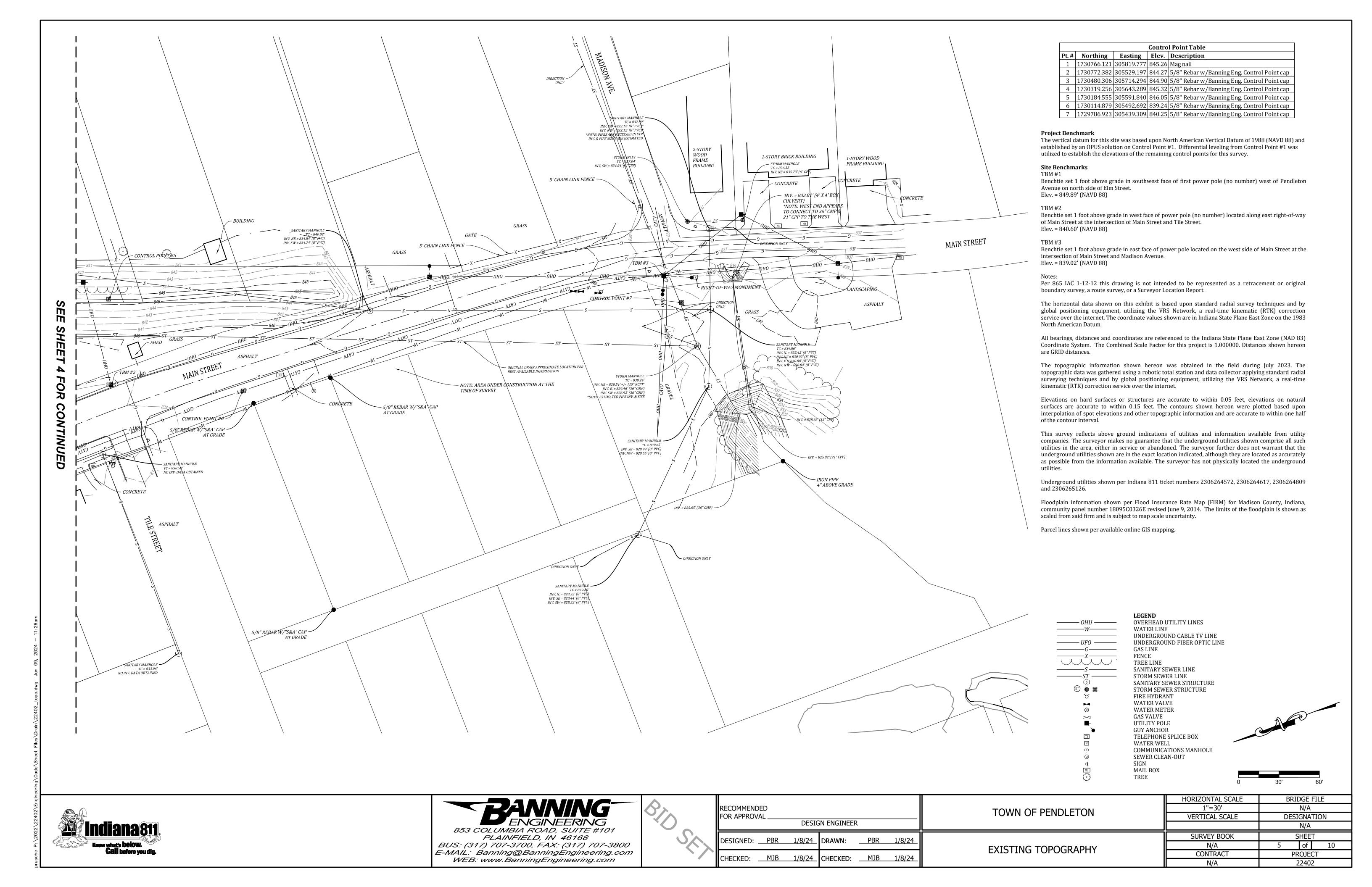


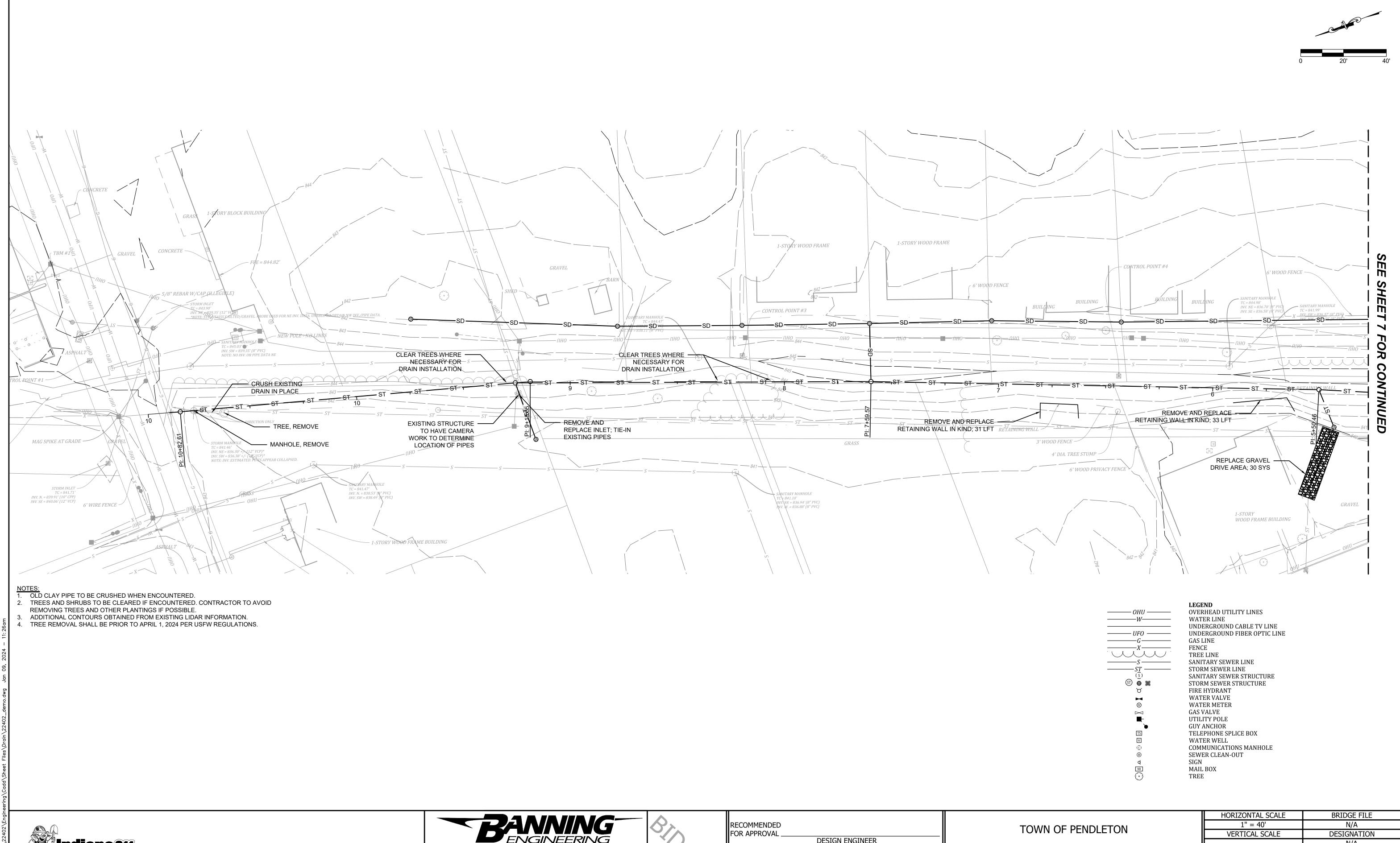




				HORIZONTAL SCALE	BRIDGE FILE
RECOMMENDED			TOWN OF PENDLETON		N/A
FOR APPROVAL			TOWN OF PENDLETON	VERTICAL SCALE	DESIGNATION
DESIGN ENGINEER					N/A
DESIGNED: PBR 1/8/24 DRAWN:	PBR	1/8/24		SURVEY BOOK	SHEET
DESIGNED. FDR 1/0/24 DRAWN.	FDR	1/0/27	GENERAL NOTES & DETAILS	N/A	3 of 10
CHECKED: MJB 1/8/24 CHECKED:	MIR	1/8/24		CONTRACT	PROJECT
CHECKED. 1/0/24 CHECKED.	ויוטט	1/0/27		N/A	22402







Indiana 811.

Know what's below.

Call before you dig.

ENGINEERING

853 COLUMBIA ROAD, SUITE #101

PLAINFIELD, IN 46168

BUS: (317) 707-3700, FAX: (317) 707-3800

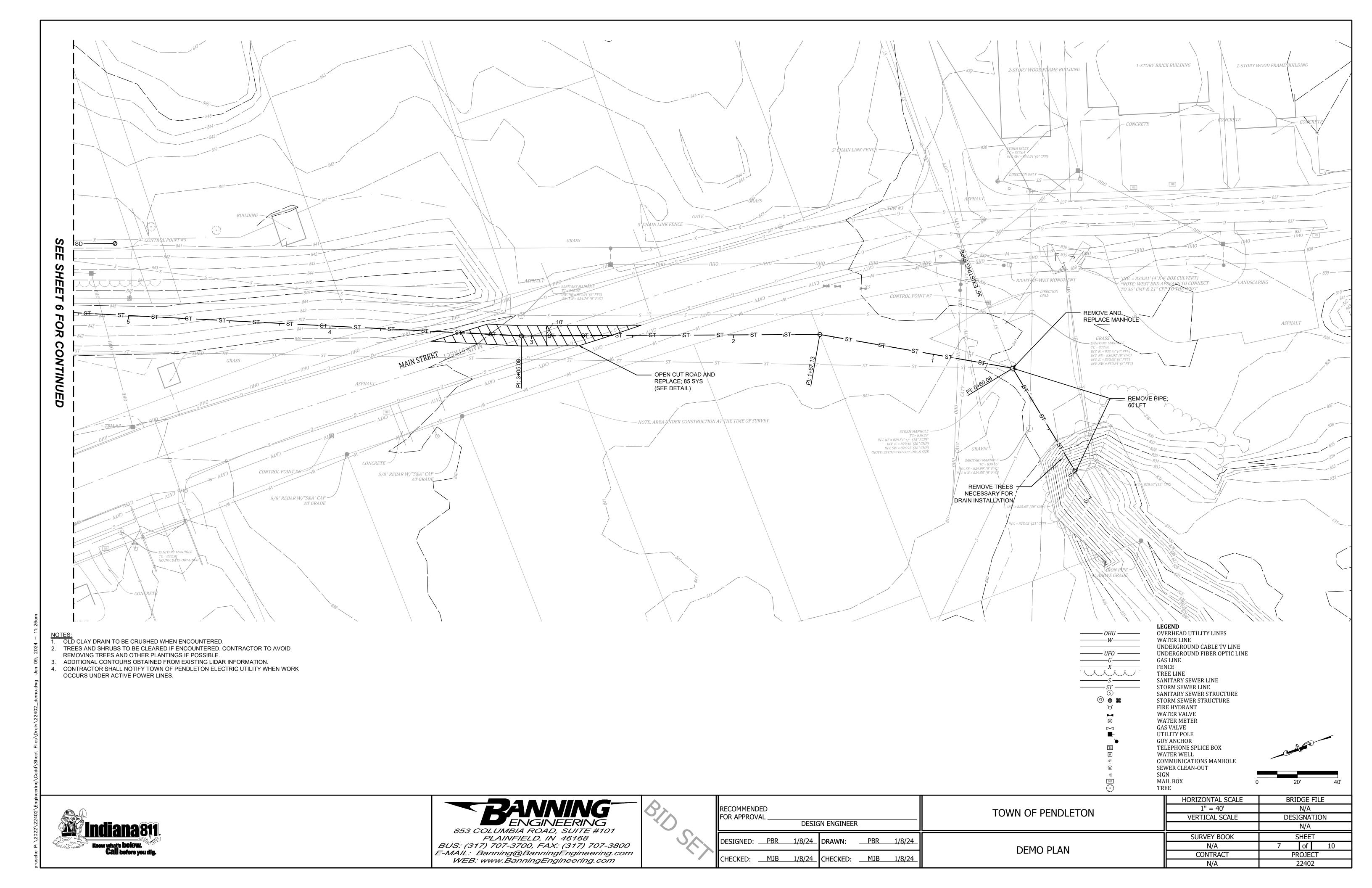
E-MAIL: Banning@BanningEngineering.com

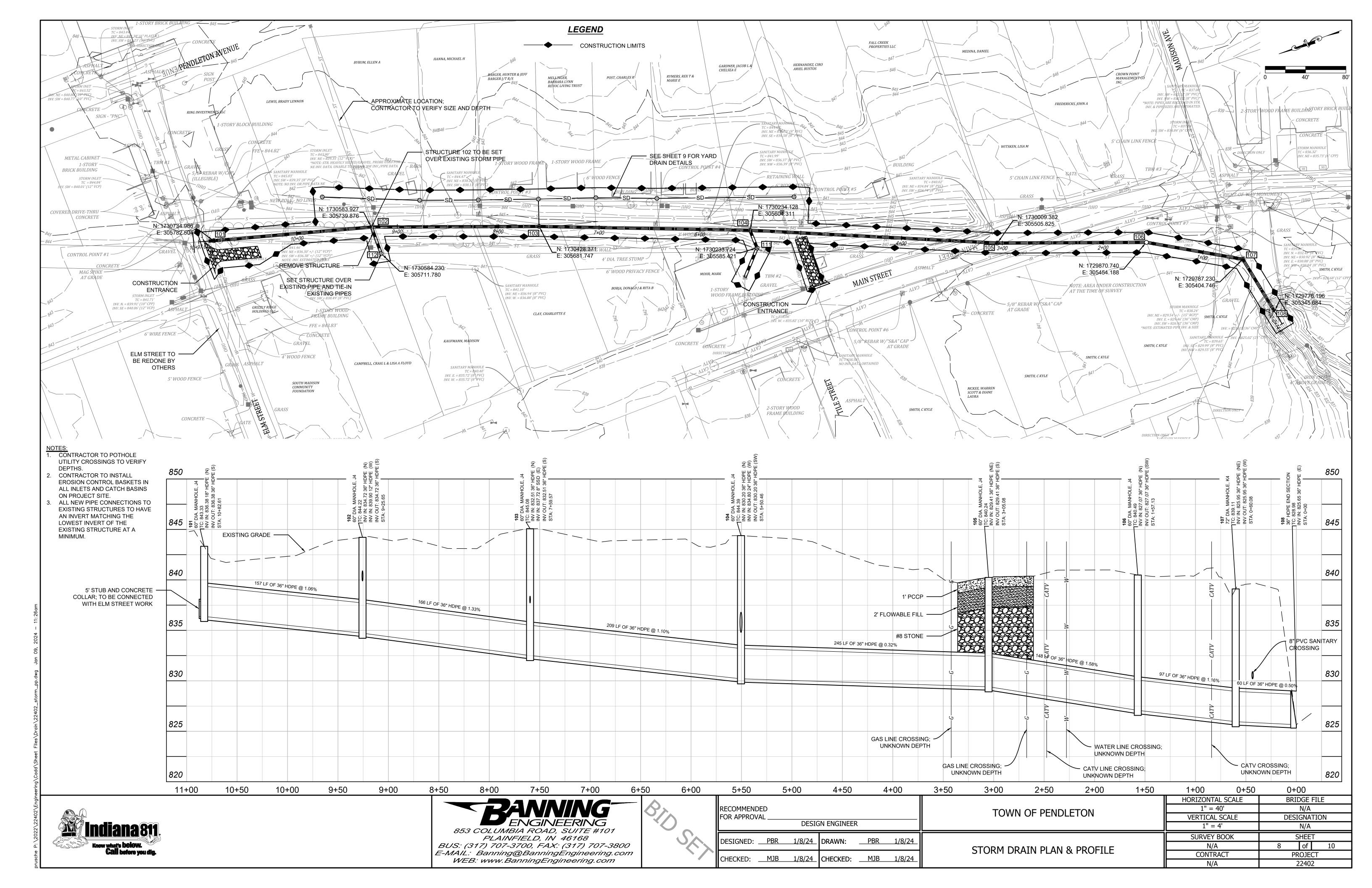
WEB: www.BanningEngineering.com

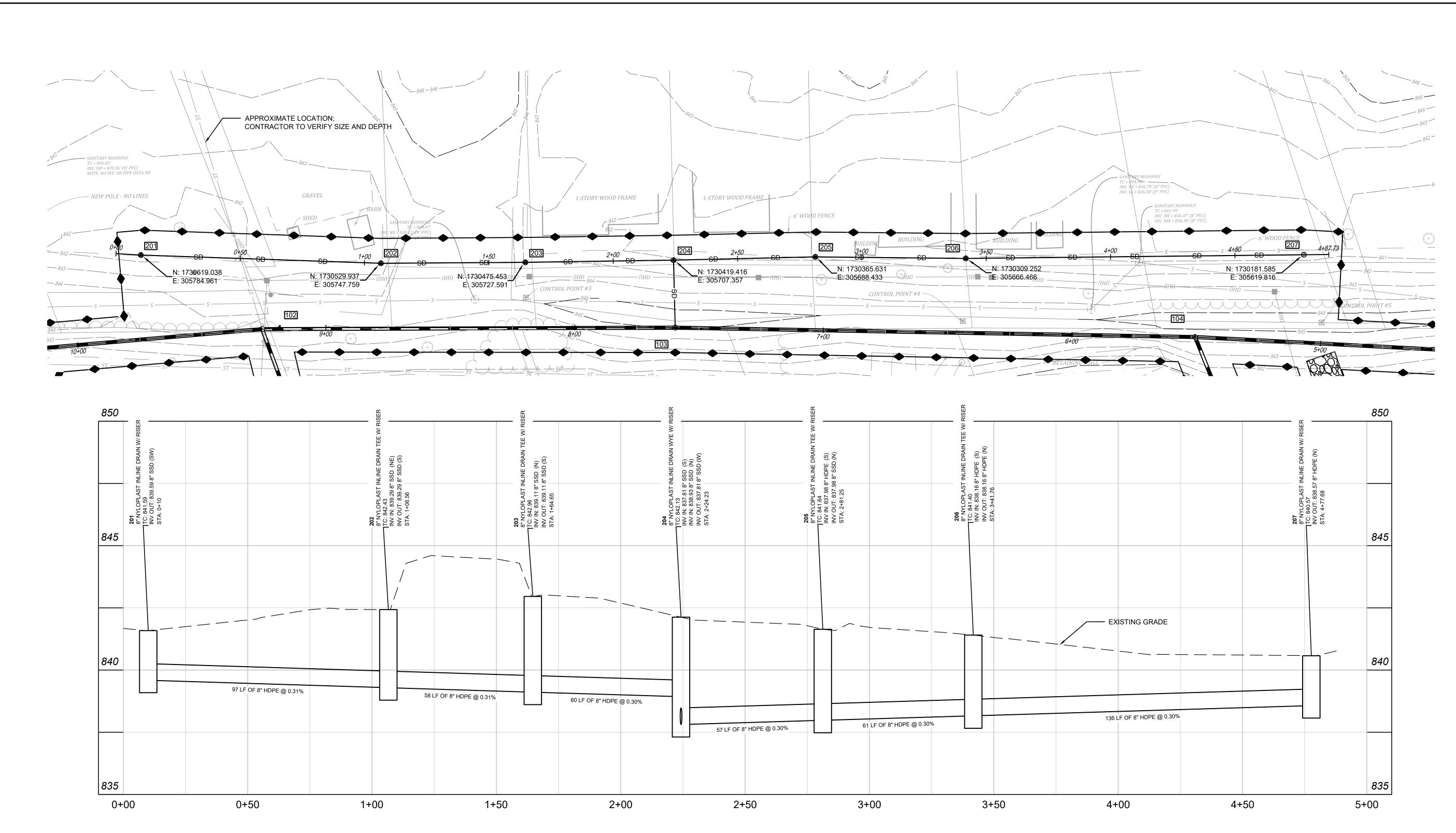


RECOMMENDED FOR APPROVAL	DESIG	GN ENGINEER	R		
DESIGNED: PBR	1/8/24	DRAWN:	PBR	1/8/24	
CHECKED: MJB	1/8/24	CHECKED:	МЈВ	1/8/24	

	HORIZONTAL SCALE	BRIDGE FILE		
OWN OF PENDLETON	1" = 40'	N/A		
OVVIN OF PENDLETON	VERTICAL SCALE	DESIGNATION		
		N/A		
	SURVEY BOOK	SHEET		
DEMO PLAN	N/A	6 of 10		
DEMO PLAN	CONTRACT	PROJECT		
	N/A	22402		







NOTES:

1. SEE SHEET 3 FOR NYLOPLAST DETAILS.

2. CONTRACTOR MAY ADJUST YARD DRAIN LOCATIONS AS NEEDED.

 CONTRACTOR TO DIRECT TIE YARD DRAINS INTO MAIN DRAIN WHEREVER THERE IS A CONFLICT THAT PREVENTS CONNECTION TO OTHER YARD DRAINS.



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E-MAIL: Banning@BanningEngineering.com
WEB: www.BanningEngineering.com



RECOMMEND FOR APPROV		DESIG	GN ENGINEER			
DESIGNED: _	PBR	1/8/24	DRAWN:	PBR	1/8/24	
CHECKED: _	МЈВ	1/8/24	CHECKED:	МЈВ	1/8/24	

	HORIZONTAL SCALE	BRIDGE FILE		
TOWN OF DENDLETON	1"=20'	N/A		
TOWN OF PENDLETON	VERTICAL SCALE	DESIGNATION		
	1"=2'	N/A		
	SURVEY BOOK	SHEET		
VADO ODATNI DI ANI SI DDOETI E	N/A	9 of 10		
YARD DRAIN PLAN & PROFILE	N/A CONTRACT	9 of 10 PROJECT		
YARD DRAIN PLAN & PROFILE	·	<u> </u>		

			STRUCTURE DATA TABLE	: Elm Stree	t Drain				
Str. No.	Str. Type	Top of Casting	Casting Type	INV. (in)	Pipe Size (in)	Pipe Type (in)	INV. (out)	Pipe Size (out)	Pipe Type (out)
101	60" Dia. Manhole, J4	843.33	Neenah R-1714	836.38	18"	HDPE	836.38	36"	HDPE
102	60" Dia. Manhole, J4	844.22	Neenah R-1714	834.72 839.90	36" 12"	HDPE HDPE	834.72	36"	HDPE
103	60" Dia. Manhole, J4	845.08	Neenah R-1714	832.51 837.72	36" 8"	HDPE SSD	832.51	36"	HDPE
104	60" Dia. Manhole, J4	844.39	Neenah R-1714	830.20 834.80	36" 24"	HDPE HDPE	830.20	36"	HDPE
105	60" Dia. Manhole, J4	840.24	Neenah R-1714	829.41	36"	HDPE	829.41	36"	HDPE
106	60" Dia. Manhole, J4	840.49	Neenah R-1714	827.07	36"	HDPE	827.07	36"	HDPE
107	72" Dia. Manhole, K4	839.11	Neenah R-1714	825.95	36"	HDPE	825.95	36"	HDPE
108	36" HDPE End Section	828.98		825.65	36"	HDPE			
111	30" x 30" Catch Basin	840.31	Neenah R-2560-D2	835.00	18"	HDPE	835.00	24"	HDPE
112	30" x 30" Catch Basin	841.25	Neenah R-2560-D2				840.00	12"	HDPE
201	8" Nyloplast Inline Drain w/ Riser	841.59	Nyloplast Cast Iron Dome Grate				839.59	8"	SSD
202	8" Nyloplast Inline Drain Tee w/ Riser	842.43	Nyloplast Cast Iron Dome Grate	839.29	8"	SSD	839.29	8"	SSD
203	8" Nyloplast Inline Drain Tee w/ Riser	842.96	Nyloplast Cast Iron Dome Grate	839.11	8"	SSD	839.11	8"	SSD
204	8" Nyloplast Inline Drain Wye w/ Riser	842.13	Nyloplast Cast Iron Dome Grate	837.81 838.93	8" 8"	SSD SSD	837.81	8"	SSD
205	8" Nyloplast Inline Drain Tee w/ Riser	841.64	Nyloplast Cast Iron Dome Grate	837.98	8"	SSD	837.98	8"	SSD
206	8" Nyloplast Inline Drain Tee w/ Riser	841.40	Nyloplast Cast Iron Dome Grate	838.16	8"	SSD	838.16	8"	SSD
207	8" Nyloplast Inline Drain w/ Riser	840.57	Nyloplast Cast Iron Dome Grate				838.57	8"	SSD

PIPE DATA	A TABLE:	Elm Street	Drain
Pipe Name	Size	Length	Slope
EXZ-111	18"	31.43'	0.80%
STUB	18"	5.00'	0.00%
101-102	36"	156.96'	1.06%
102-103	36"	166.06'	1.33%
103-104	36"	209.11'	1.10%
104-105	36"	245.38'	0.32%
105-106	36"	147.95'	1.58%
106-107	36"	97.05'	1.16%
107-108	36"	60.08'	0.50%
111-104	24"	18.89'	1.06%
112-102	12"	28.10'	0.36%
201-202	8"	96.56'	0.31%
202-203	8"	58.10'	0.31%
203-204	8"	59.58'	0.30%
204-103	8"	27.13'	0.33%
205-204	8"	57.02'	0.30%
206-205	8"	60.51'	0.30%
207-206	8"	135.92'	0.30%

NOTES:

1. SEE SHEET 3 FOR NYLOPLAST DETAILS.

2. ALL MANHOLE AND CATCH BASIN CASTINGS TO BE PRE-STAMPED WITH

"CLEAN WATER" MESSAGE.

BUS: (317) 707-3700, FAX: (317) 707-3800
E-MAIL: Banning@BanningEngineering.com
WEB: www.BanningEngineering.com



RECOMMENDE FOR APPROVA		DESIG	ON ENGINEER	R	
DESIGNED: _	PBR	1/8/24	DRAWN:	PBR	1/8/24
CHECKED: _	МЈВ	1/8/24	CHECKED:	МЈВ	1/8/24

HORIZONTAL SCALE BRIDGE FILE N/A TOWN OF PENDLETON VERTICAL SCALE DESIGNATION N/A SURVEY BOOK SHEET of 10 N/A STORM STRUCTURE AND PIPE TABLES CONTRACT PROJECT N/A 22402