Drain:	THOR RUN ORAIN -309 CAMPL PLACE -SECTION Y				
Improvement:					
Operator:	Joh				
Date:	10-16-03				
YR. OF CONST.	2003				

GIS Drain Input Checklist

<u>N|A</u>

- Digitize & Attribute Tile Drains
- Digitize & Attribute Storm Drains
- Digitize & Attribute SSD
- Digitize & Attribute Open Ditch
- Sum drain lengths & Validate
- Enter Improvements into Posse
- Enter Drain Age into Posse
- Sum drain length for Watershed in Posse
- Stamp Plans
- Pull Source Documents for Scanning

24. 10-17 \$ 10-20 10-17

A. 10-17 GA 10-17

<u>Gasb 34 Footages for Historical Cost</u> <u>Drain Length Log</u>

Drain-Improvement:	THOR	RUN DRAIN	- CANAL PLACE	SECTION 4	4
					-

	<u> </u>	length	1 or with			
Drain Type:	Size:	Surveysies (Ann. Report)	Length (DB Query)	Length Reconcile	i i i i i i i i i i i i i i i i i i i	
550	6				rice.	Cost:
	(o	8,990	8,990	ø		
RCP	/2"	2313	2313	ø		
	154	1120'	(120)	ø		· · · · · · · · · · · · · · · · · · ·
OPEN DITCH		3089'	3089	ø		
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<u></u>						
	Sum:	15,512	15,512	ø		
inal Report:				·		
omments:						
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Fax (317) 776=9628

To: Hamilton County Drainage Board

September 18, 2001

Noblesville, Indiana 46060-2230

Re: Thor Run Drain, Canal Place Section 4 Arm

Attached is a petition, non-enforcement request, plans, calculations, quantity summary and assessment roll for the Thor Run Drain, Canal Place Section 4 Arm. I have reviewed the submittals and petition and have found each to be in proper form.

I have made a personal inspection of the land described in the petition. Upon doing so, I believe that the drain is practicable; will improve the public health; benefit a public highway and be of public utility; and that the costs, damages, and expenses of the proposed drain will probably be less than the benefits accruing to the owners of land likely to be benefited. The drain will consist of the following:

6"	SSD	7,902	ft	24" RCP	24	ft
12"	RCP	1,899	ft	Open Ditch	3,048	ft
15"	RCP	1,122	ft			

The total length of the drain will be 13,995 feet.

The subsurface drains (SSD) to be part of the regulated drain are those located under the curbs and those main lines between lots or in rear yards. Only the main SSD lines, which are located within the easement (right of way), are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain.

Thor Run will be extended across lots 196 - 193, Block C and Block E to Geist Reservoir with Canal Place Section 4. The remaining portion of Thor Run across lots 196 - 207 in Canal Place Section 4 was regulated with Brooks Landing Section 1 and Brooks Manor (See Thor Run, Brooks Landing Arm report dated May 20, 1998 and Thor Run, Brooks Manor Arm report dated July 16, 2001).

The portion of storm pipe between structures 720 - 724, 724A and 725 - 732 will be regulated under Canal Place Drain, Section 4 Arm.

The other portions of the open ditch regulated with Canal Place Section 4 are as follows: Open Ditch across Lot 144A from structure 723 to Thor Run between Lots 195 - 196; 199 - 200; 204 - 205 and 221 - 222. Open Ditch from structure 737 to Thor Run Lot 153.

I have reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. I also believe that no damages will result to landowners by the construction of this drain. I recommend a maintenance assessment of \$50.00 per lot, \$5.00 per acre for roadways, with a \$50.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$3,564.50.

I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC 36-9-27-67 to 69. Therefore, this drain shall be designated as an Urban Drain.

I recommend that upon approval of the above-proposed drain that the Board also approve the attached non-enforcement request. This request is for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Canal Place, Section 4 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for October 22, 2001.

KCW/llm

Kenton C. Ward Am Hamilton County Surveyor

Canal Place - Section 4

Bonds:	SB12945	\$204,600.00
•	SB12994	45,000.00

= \$249,600.00

Total bond amount split 2 ways:

Canal Place - Section 4 Arm	5,272'
Thor Run - Section 4 Arm	<u>15,512'</u>

Total Footage	20,784'

Section 2 Arm: 5272 / 20784 = 25%

Section 3 Arm: 15512 / 20784 = 75%

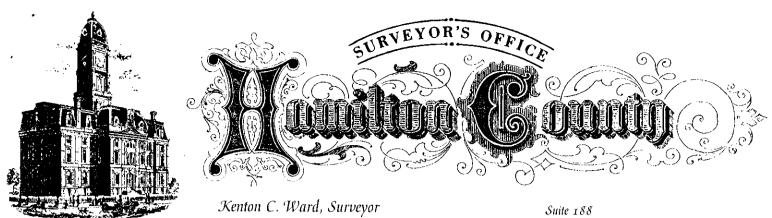
25 + 75 = 100

Cost Per Improvement:

Canal Place - Section 4 Arm: \$249,600.00 * 25% = \$62,400.00

Thor Run - Section 4 Arm: \$249,600.00 * 75% = \$187,200.00

\$62,400.00 + \$187,200.00 = \$249,600.00



Kenton C. Ward, Survey (Phone (317) 776-8495 (Fax (317) 776-9628 Suite 188 One Hamilton County Square Noblesville, Indiana 46060-2230

To: Hamilton County Drainage Board

October 15, 2003

Re: Thor Run: Canal Place Sec. 4 Arm

Attached are as-builts, certificate of completion & compliance, and other information for Canal Place Sec. 4. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction, changes were made to the drain, which will alter the plans submitted with my report for this drain-dated September 18, 2001. The report was approved by the Board at the hearing held October 22, 2001. (See Drainage Board Minutes Book 6, Pages 180-182) The changes to the drain are as follows:

Structure:	T.C.:	I.E.:	Pipe:	Length:	Grade:	Original(ft):	Difference(ft):
711	841.27	837.34					
710	841.39	837.04	15	27.9	1.08	25	2.9
710	841.39	836.99					
709	841.39	836.29	15	42.4	1.65	43.86	-1.46
709	841.39	836.29					
708	814.32	814.32	15	175.2	12.54	177.31	2.11
707	837.71	833.53					
706	837.7	833.19	12	28.2	1.21	25	3.2
706	837.7	833.15					·····
705A	835.58	828.93	15	75	5.63	77.66	-2.66
705A	835.58	820.08					
705		807.74	15	63.3	19.49	60	3.3
704	829.76	824.21					
703	829.78	823.96	12	28	0.89	25	3
703	829.78	823.96					
702	825.44	821.34	12	109	2.37	109.74	-0.74
702	825.44	821.11					
701	812	807.65	12	81.7	16.47	79.19	2.51
701	812	805.45					
700		804.6	15	109.6	0.78	100	9.6
719	828.04	823.54					· · · · · · · · · · · · · · · · · · ·
718	827.96	823.36	12	24.1	0.75	21	3.1
718	827.96	823.26					

0.15 2.54 3 0.58 0.52 3 -4.4 2.02 -2.9 2.98
3 0.58 0.52 3 -4.4 2.02 -2.9
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<u>v.</u> ø
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748	825.87	821.02	12	43.6	1.17	43.23	0.37
748	825.87	821.02					
745	827.6	820.22	12	104.4	0.77	103.28	1.12
6" SSD Streets:						RCP Pipe Totals	
Geist Ridge Dr	5432				Γ	12	2313
Baybridge Way	260					15	1120
Harbour Bay Ct &					F		
Stub	860						
Giselle Way	1078						
Faucet Ln & Stub St	1360				L.		
					1	Other	
Total:	8990					Drain:	
					L	open	3089

The length of the drain due to the changes described above is now 15,512 feet.

The non-enforcement was approved by the Board at its meeting on October 22, 2001 and recorded under instrument #200200027367.

The bonds or letter of credits from Fifth Third Bank, number SB12945 & SB12994; dated July 13, 2001 and August 27, 2001; in the amount of \$204,600.00 and \$45,000; was released August 25, 2003 and September 8, 2003.

I recommend the Board approve the drain's construction as complete and acceptable.

Sincerely,

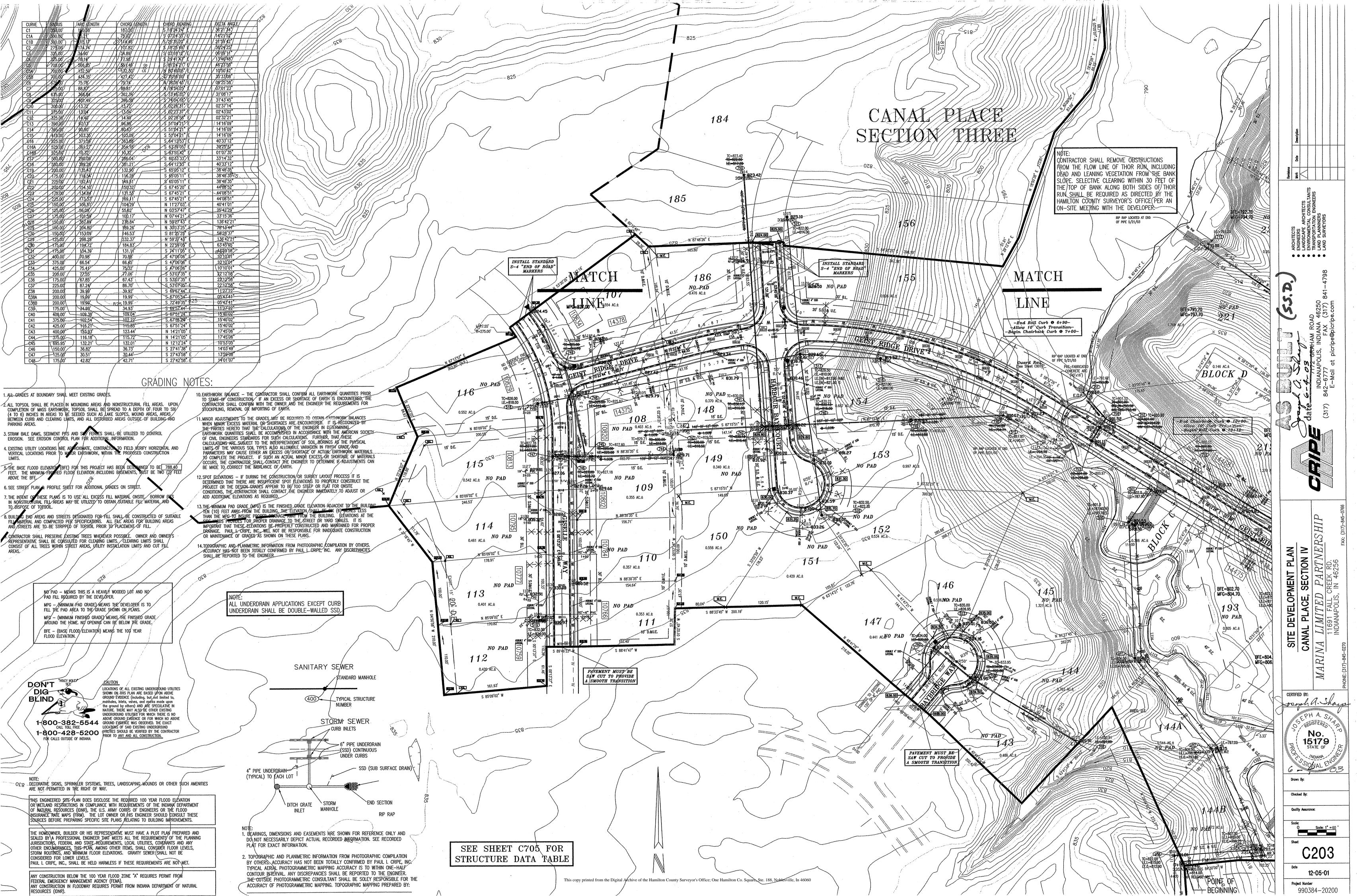
Kenton C. Ward, Hamilton County Surveyor

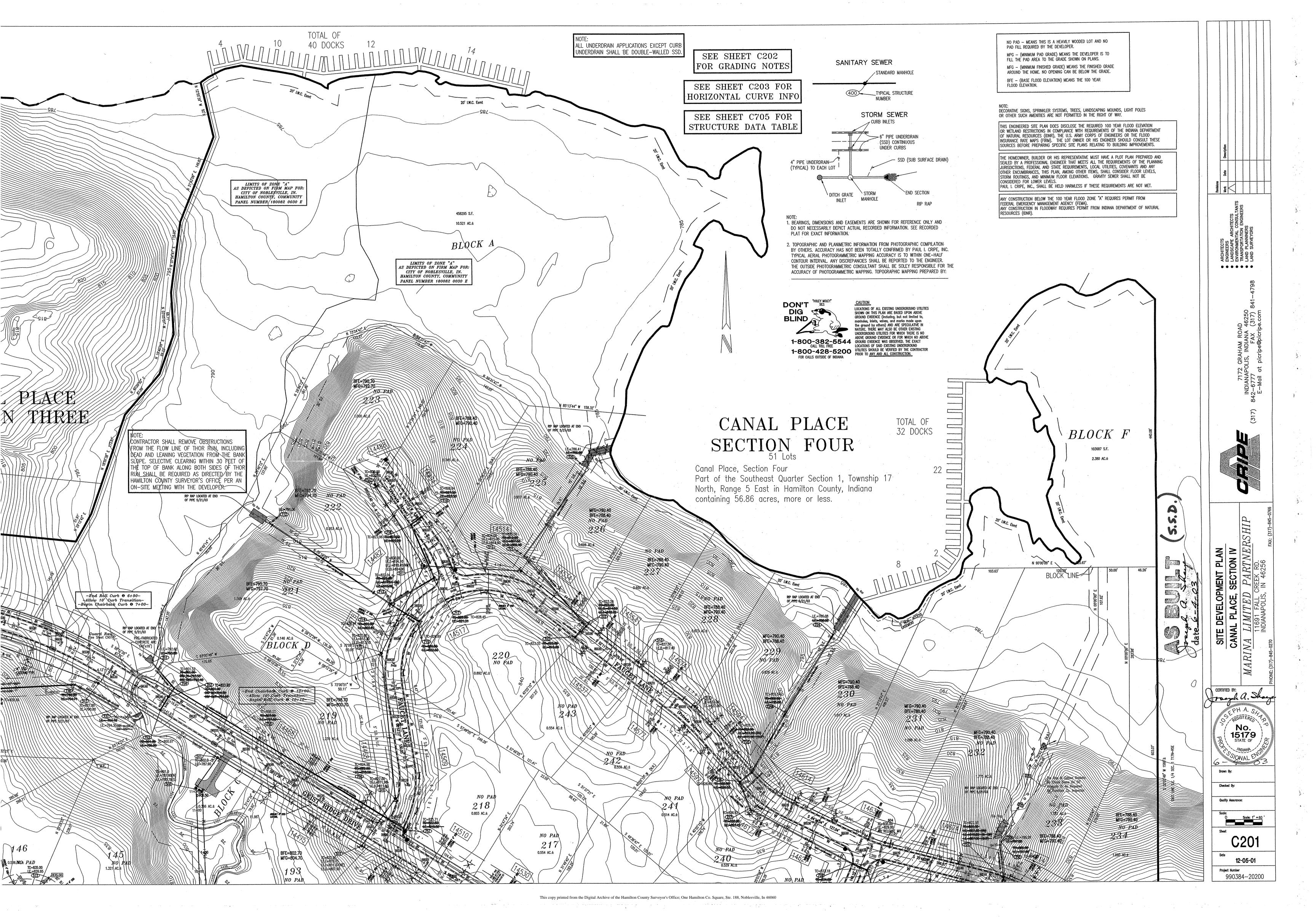
KCW/slm

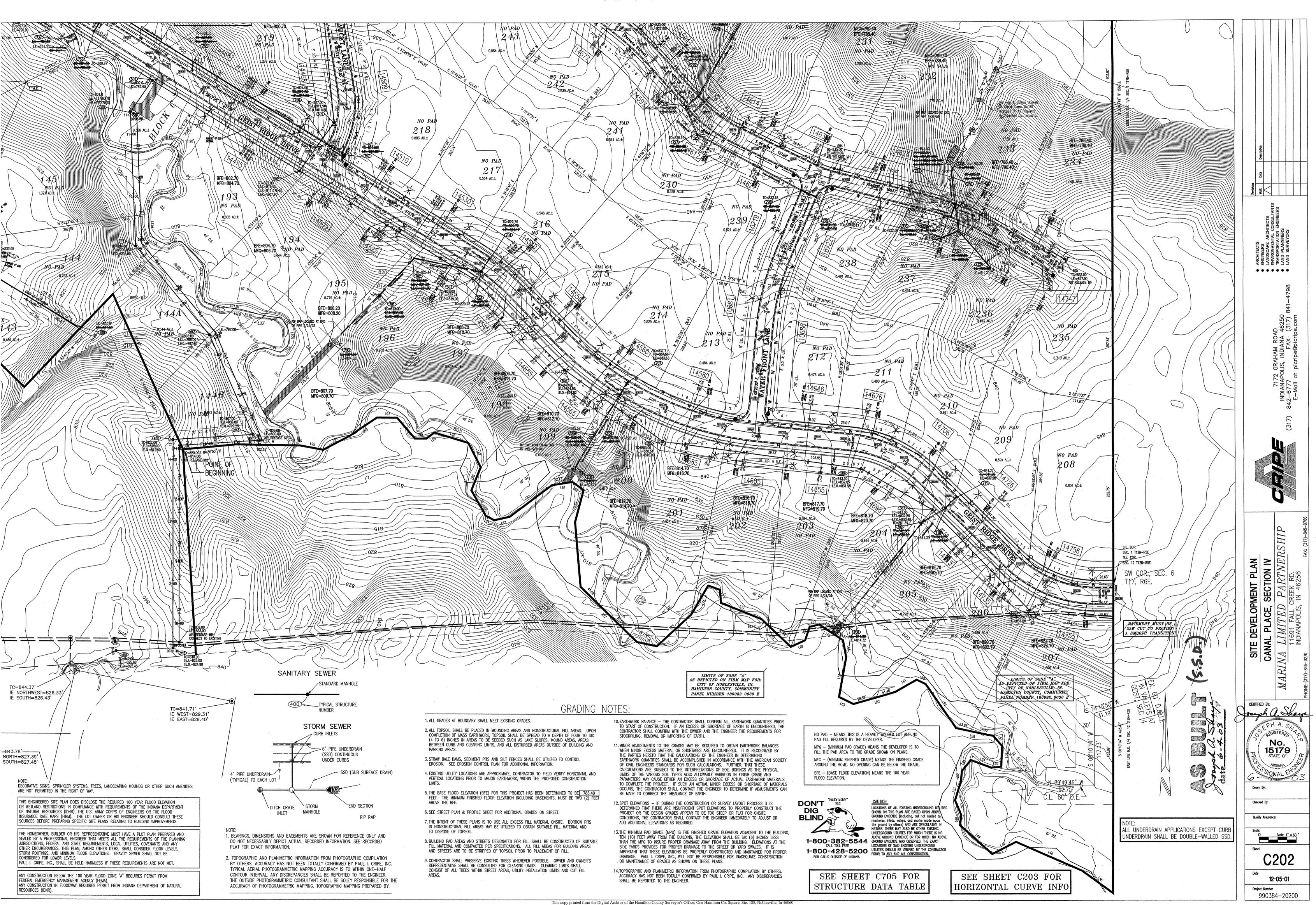
* /// .							F ^{US}
///		RADIUS	ARC MENGTH	CHORD / ENGTH /	CHORD BEARING / / / /	DELTA ANGLE/	
		///300.00'	1/0/38'	187/20///////////////////////////////////	/S/18'24'24' E/////	/ 36'21'34"/ /	
///_]	<u>//200.00'</u>	5.21	. 75.02////////////////////////////////////	/\$ 07/24'33"/E////	/14/21/52*/	
//	C1B //////	300.00		\$P/114.46°//////	/\$/25'35'20" /E/ / / /	/ 21.59.42"/	
$7 \setminus 1$	C2	275.00 /	174.74' / //	////.82///////	\$ 18'25'49" ₽ / / /	/36/24/25/	
}	C3////////	325,00'	34.90'	/34.89//////	/\$\03;18/12"/E/////	06.09.11"	
	SA 111111	325.00	78,16	77.98'//////	\$ 29 41 A7 E / / /	/13/46/48/	
	/\$\$!	700.00	566,85'	\$51.49 / 00 / /	\$/81 [·] 24 [·] 21 [/] E/ / / / /	<u>46°23'50" / /</u>	
	X5K/	700,00	132.50	9132,307 (3)	/N 80 49/05"/E/ / / /	/ 10/50'42" /	
>//////	\$\$8	700,00	434.35'	427 42/ / / / /	\$75,59'00' E / / / /	35.33,08"	AK / / / / / / / / / / /
ZIII)	C6	675 40'	75.78//////	75.74	N/78'36'43"/E////	/ 06 25'58"/	
Y]]]]]]	Q7 //	25:00'	/ 88,87	/88.81'/////////////////////////////////	N/78 ⁵ 54/25 [°] E////	07;01'23"	
5///	C8	675.00'	368,84	362,34	5/1346'35" E////	/ 31'08'17"	A/(\\\\\\\\
	C9	7/25/00*	401.49'	396/38//////	\$ 74;04;18"/E////	31*43'45"	
111	1/010	300.00'///	/(3.72	X372//////	8 02:26'31"/E/ / /	02'37'14"	
	C11/	275.00'////	13.04	13.04	/\$.02.23'31"/E///	02'43'02"	
	C1/2	325.00 /// /	14.40	14.49	/\$,92°28'58" E/ / /	02:32'21"	
	C13 /	390.00///	\$7/13 / / //	96,88	S 51°04 21" E /	/ 14'16'09"	
~)	C14 / /	365.00	90,90*	///////////////////////////////////////	<u>\$ 51'04'21" P</u>	/ 14'16'09" /	
\sim	C15 /	415.00	103.35//////	103,09/////	<u> S 51'04'21"/E / /</u>	14'16'09"	
	_e16 / /	/525.00///	371.59 ////////////////////////////////////	/363.88'///	S 64 12/53 E	40'33'12"	
1 / /	C16A ///	1 525.00'//	361.27 ////////////////////////////////////	354.18' 1.9	S 63:39'05/ E /	392537"	
' / :	C168//	525,00 / / /	10,32////////////////////////////////////	Y 10,02/	\$ <u>⁄83'55'42"</u> E/	01'07'35"	
110	EIT	500,00 / /	290.091//////////////////////////////////	286.04	S 60'33'33"/E	33'14'32"	
1.5/1	C18//	550,00'//	389.28 / / / / /	381.21	S 64 12 53" E	40:33'12"	
\$ \$	C19	200.00////	/135/47/ / / / / / /	132,90' /	Ś 65'05'12" E	38'48'35"	
2/1/	C20	175.00'//	/ 118.54'/ /////	/ 116.28 /	S 65'05'11" E	38'48'35'25	
ZIS(C21 /	225/00 / /	/152/41/////////////////////////////////	1/49.51'/	8 65'05'11" E	38'48'35"	1/1/2 > 1/1/2
///	\$22/	200.00	154.10//////	/ /150/.32/	S 67'45'20" E	44'08'52"	
308	£28 /	175.00 /	134.84	/131.55' /	S 67'45'21" E	44'08'51"	$-1/(X \times X) \geq$
	C24	225.00'//	*73/37 /////	/ 169.11' (S 67'45'21" E	44'08'51"	$1/$ \land \land \land \land
508	225	150.00	106,51////////////////////////////////////	/104/29'	N 11'27'03" E	40'41'01"	
////	Junizing	125,00'	-56,09/////	55,62'	N 03'57'47" E	25'42'29"	
///	C27	175,00	101.59	100.17'	N 07'44'21" E	33'15'36"	
///	028	150,00'	357.89	278.84'	N 59 27 43" E	136'42'21"	
///	629	150.00	204.80	1/89.26'	N 30\13'25" E	78'13'44"	Λ
	630	150.00	/153:09'	46.53'	S 81'25'25" E	58:28'37"	
///	629	125.00'/	298.25	/232.37'	N' 59'27'43" E	136'42'21	
///	C 30	175.00'	/ 194.72'	184.83'	N 22'59'05" E	63'45'05"	4///
//	C31	175.00	1/34.39'		S 74'11'05" E	843(59'58">	
	C32	400.00'	/70.98'	70.88'	8 47'06'06" E	10'10'01"	
	C33	375.00'	66.54	66.45'	S 47'06'06" E	10'10'01"	-
/ /	C34	425,00'	75.41	75/32'	S 47'06'06" E S 53'07'35" E	22'12'58"	
	035	200.00'	77.55'	77.06' / 67.43' (S 53'07'35" E	22:12'58"	
/ /	C36 C37	175.00/ 225.00	67.85' 87.24	86.70'	S 53:07'35" E	22.12'58"	
	C37 C38	225.00	39.99'	39.92'	S 69'57'44" E	11'27'22"	
/	C38A	200.00	19,99'	19.99'	S 67'05'54" E	05'43'41"	
/	C38B	200.00		25 19.99	S 72'49'35" 825	05'43'41"	
1	C38B	175.00'	34.99	34.93'	S 69'57'44" E	11:27'22"	
1	C40	400.00	109.38'	109.04'	S-67'51'24" E	15'40'02"	
\	C40 C41	375.00	102.54	109.04	S_67'58'29" E	15'40'02"	-
<u>}</u>	C41 C42	425.00'	102.34	115.85	S 67'51'24" E	15'40'02"	1
)	C42 C43	400.00	123.93'	123.44'	N 14'21'05" E	17'45'06"	1 / /
/	C44	375.00	116.18	115.72	N 14'21'05" E	17'45'06"	1/
1	645	695.95'	132.21'	132.01'	N 12'12'24" E	10'53'05"	
2 /	C45 C46	150.00'	36.82'	36.73'	S 27'41'38" E	14'03'49"	
\bigvee	C40 C47	125.00	30.51'	30.44	S 27'43'58" E	13'59'08"	
	C48	175,00	42.82'	42.71'	S 27 43 58 E	14'01'07"	* /
	Lute		1 12:02	A 12.11	1	<u></u>	# / / /
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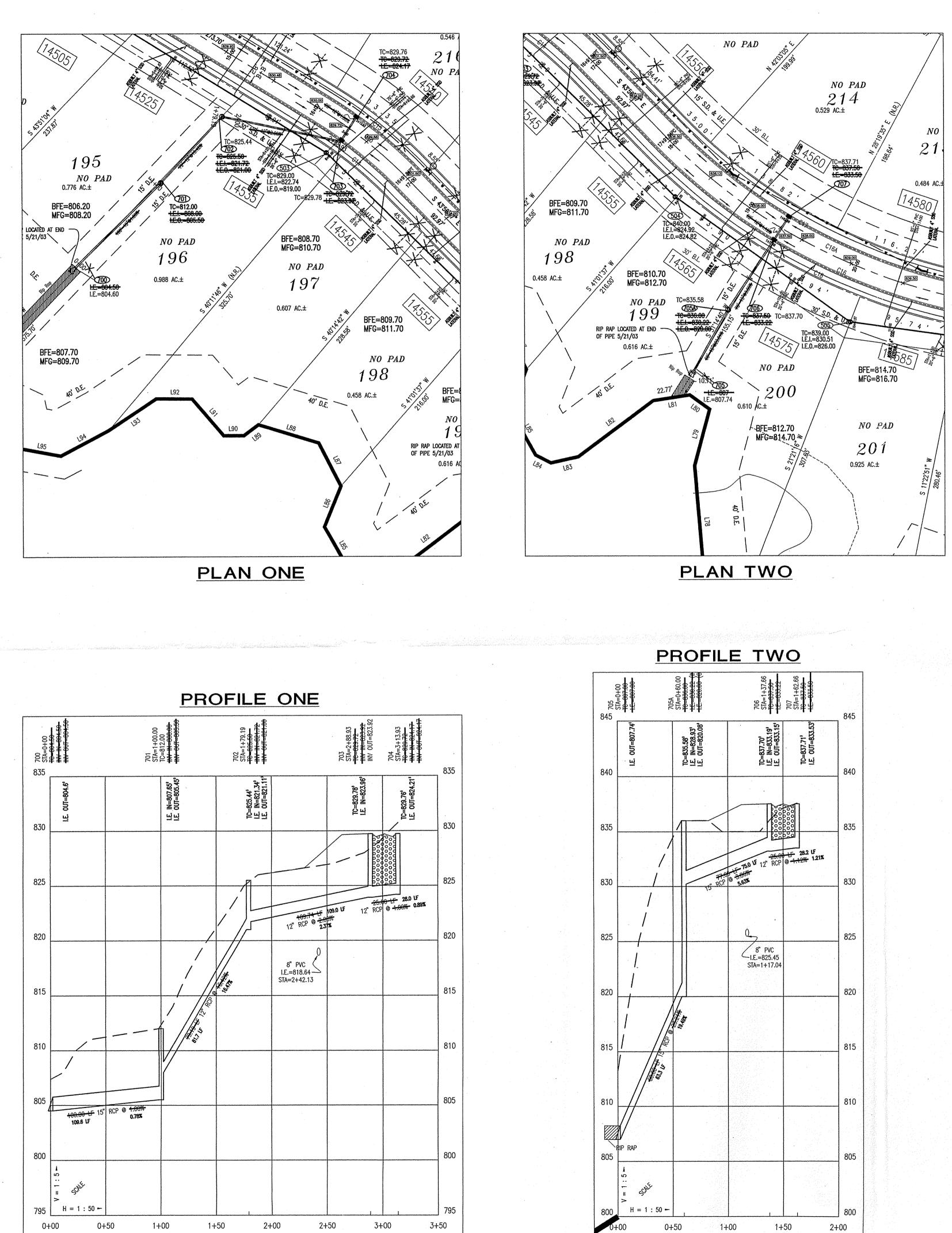
- 2. All topsoil shall be placed in mounding areas and nonstructural fill areas. UPON/ COMPLETION OF MASS EARTHWORK, TOPSOIL SHALL BE SPREAD TO A DEPTH OF FOUR TO SIX (4 TO 6) INCHES IN AREAS TO BE SEEDED SUCH AS LAKE SLOPES, MOUND AREAS, AREAS BETWEEN CURB AND CLEARING LIMITS, AND ALL DISTORBED AREAS OUTSIDE OF BUILDING AND PARKING AREAS.
- EROSION. SEE EROSION CONTROL PLAN FOR ADDITIONAL INFORMATION.
- 5-THE BASE FLOOD ELEVATION (BFE) FOR THIS PROJECT HAS BEEN DETERMINED TO BE 788.40 FEET. THE MINIMUM FINISHED FLOOR ELEVATION INCLUDING BASEMENTS, MUST BE TWO (2) FEET ABOVE THE BFE,
- 7. THE INTENT OF THESE PLANS IS TO USE ALL EXCESS FILL MATERIAL ONSITE, BORROW PLANS IN NONSTRUCTURAL FILL AREAS MAY BE UTILIZED TO OBTAIN SUITABLE FILL MATERIAL AN TO DISPOSE OF TOPSOIL.
- AND STREETS ARE TO BE STRIPPED OF TOPSOIL PRIOR TO PLACEMENT OF FILL. CONTRACTOR SHALL PRESERVE EXISTING TREES WHEREVER POSSIBLE. OWNER AND OWNER'S

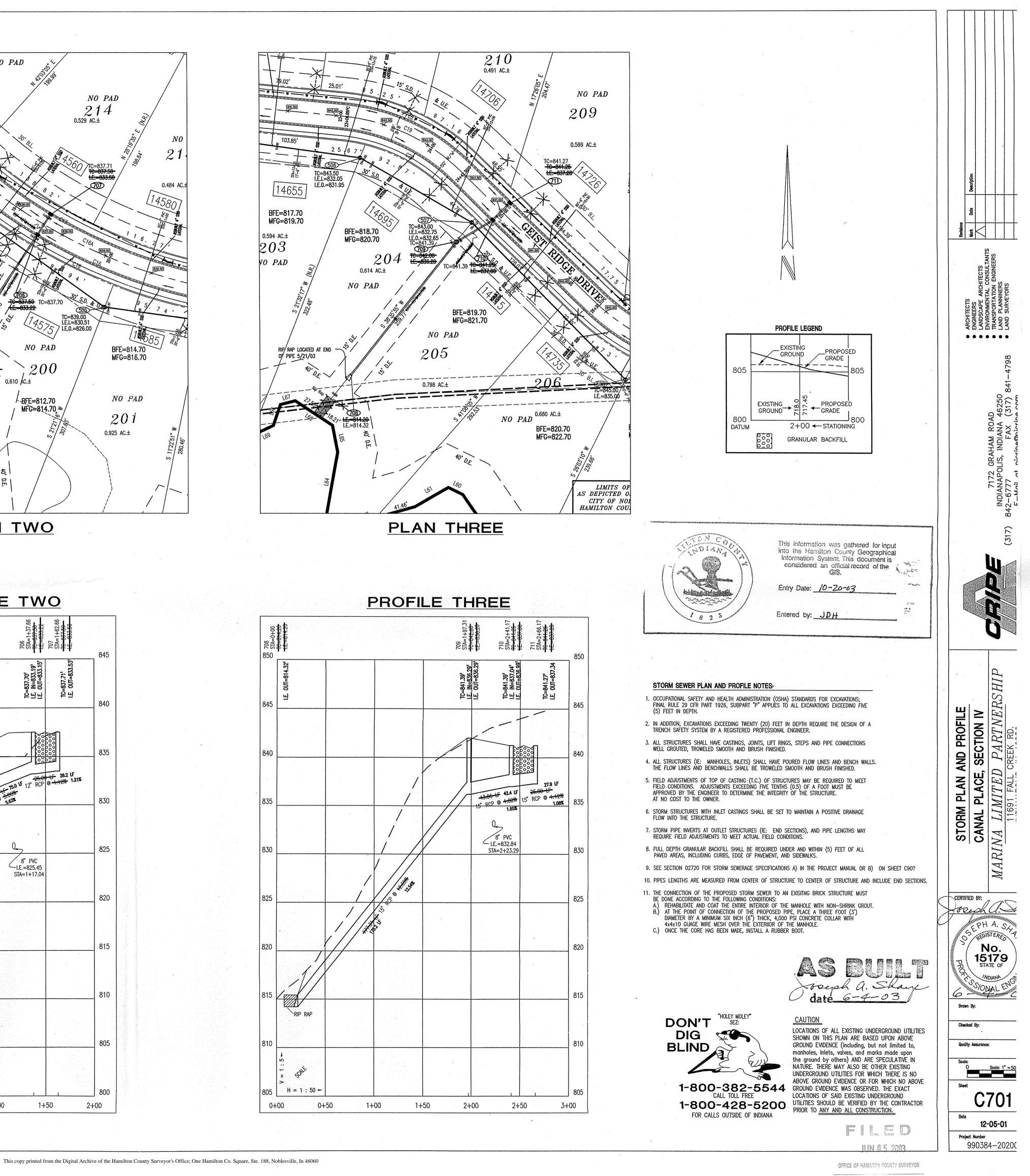
- PROJECT OR THE DESIGN-GRADES APPEAR TO BE TOO STEEP OR FLAT FOR ONSITE CONDITIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY TO ADJUST OR ADD ADDITIONAL ELEVATIONS AS REQUIRED.
- DRAINAGE. PAUL I. CRIPE, INC., WILL NOT BE RESPONSIBLE FOR INADEQUATE CONSTRUCTION
- SHALL BE REPORTED TO THE ENGINEER

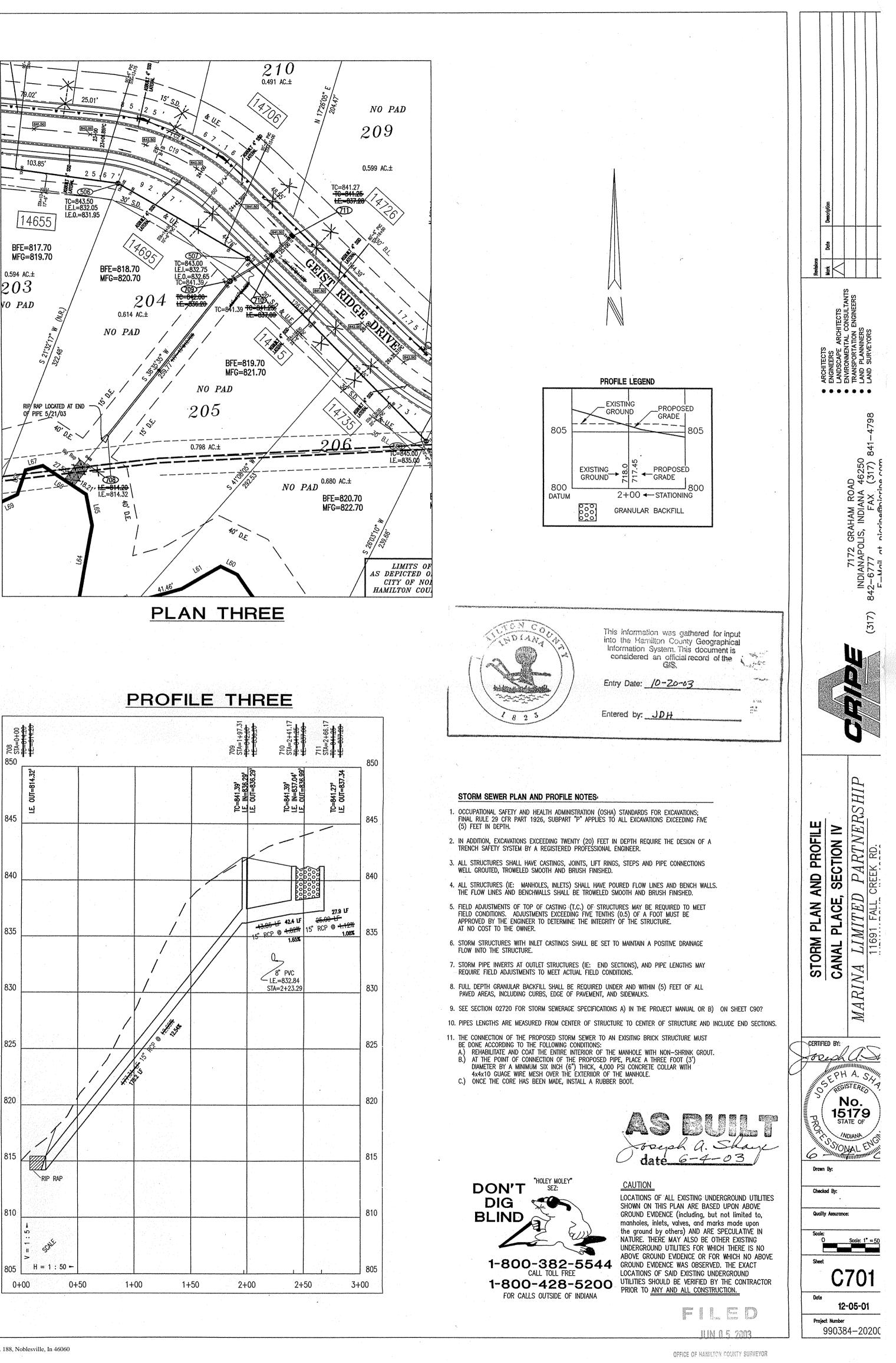


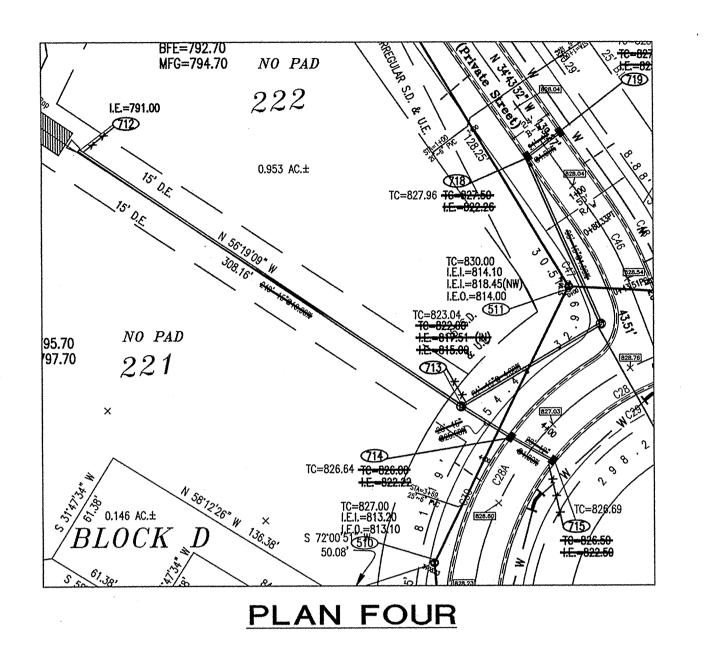


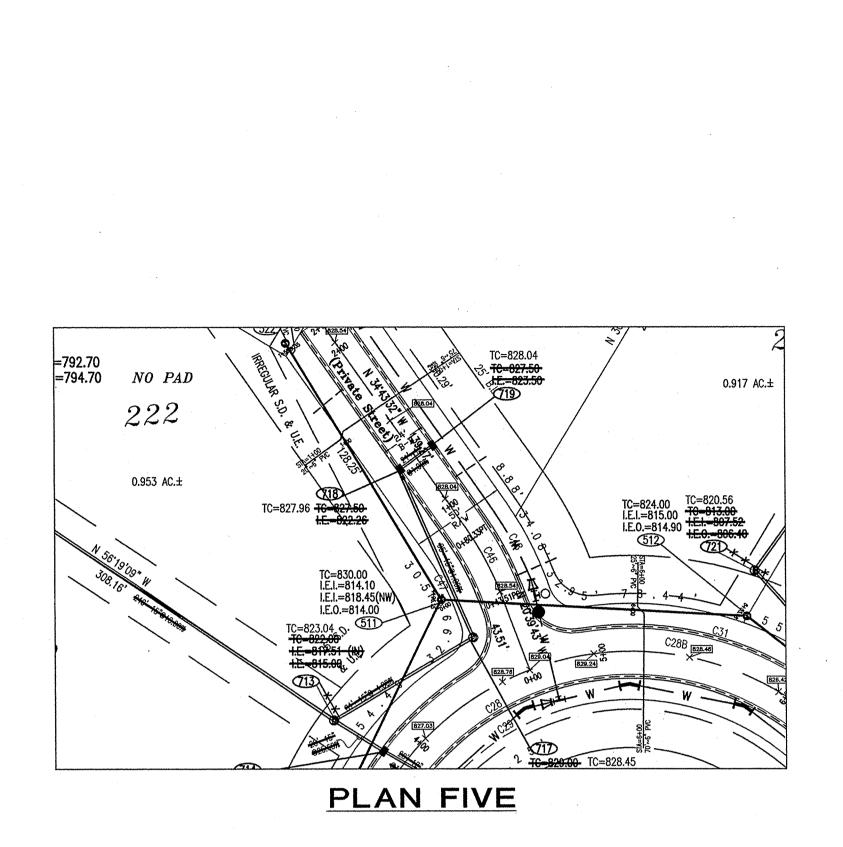




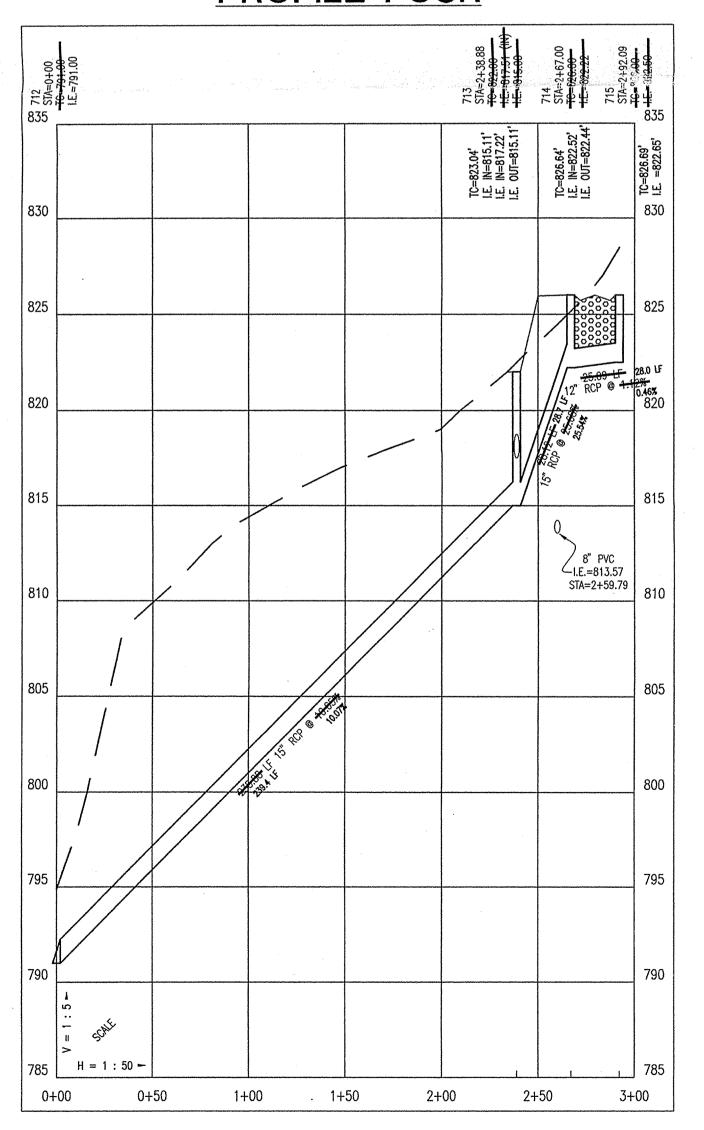




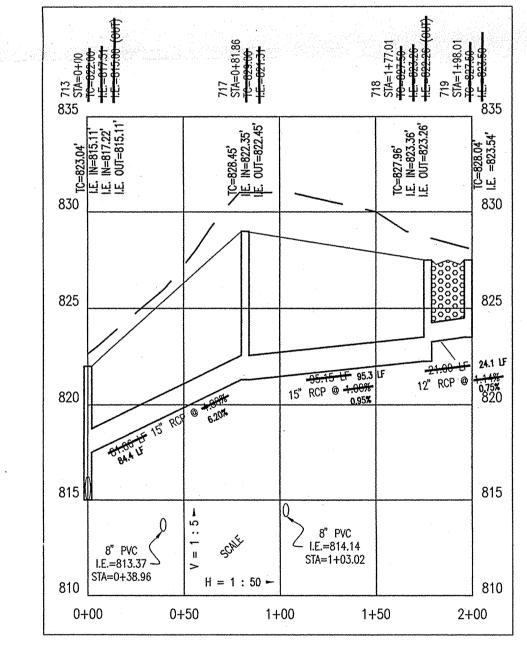


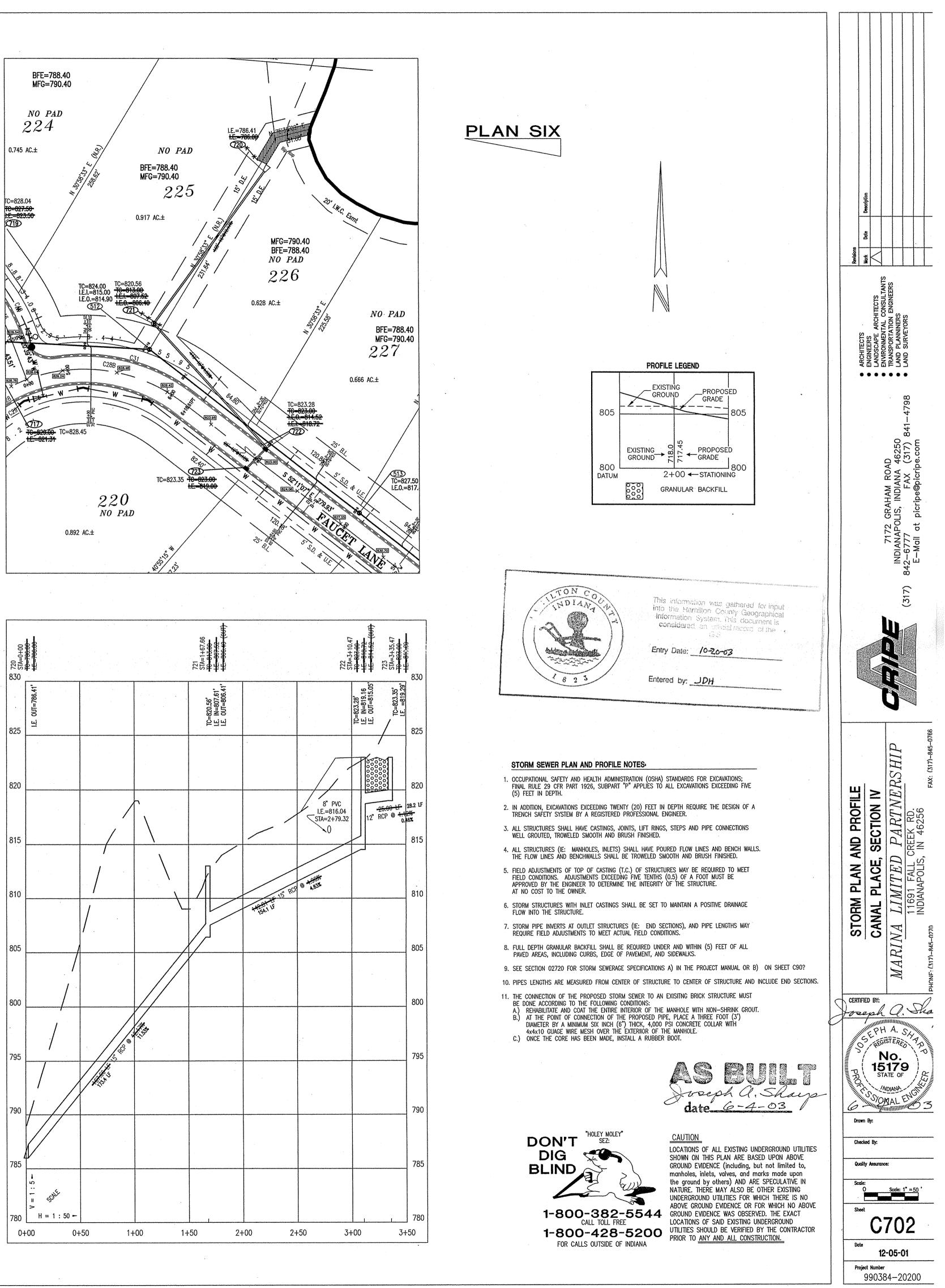


PROFILE FOUR



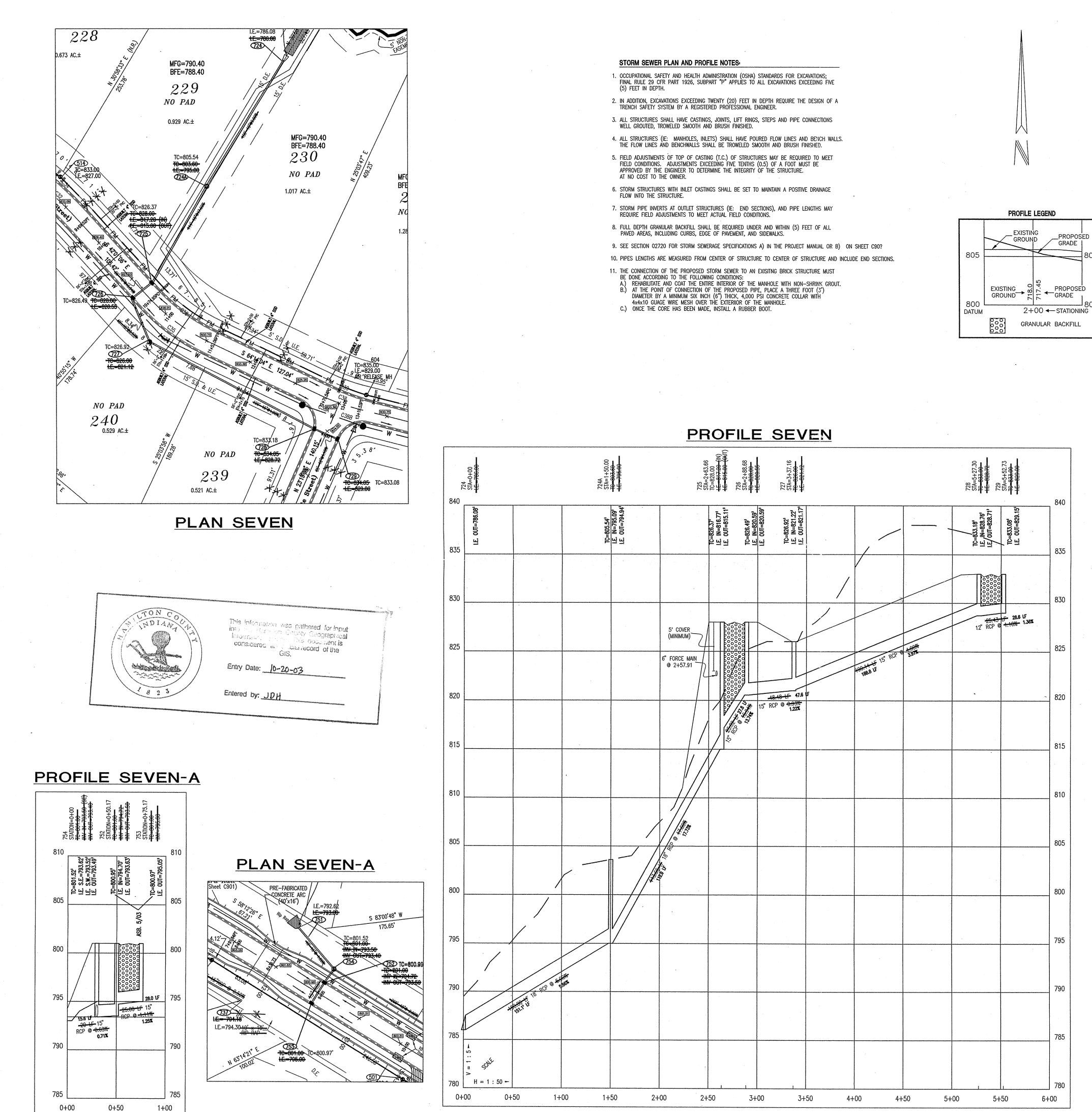






PROFILE FIVE





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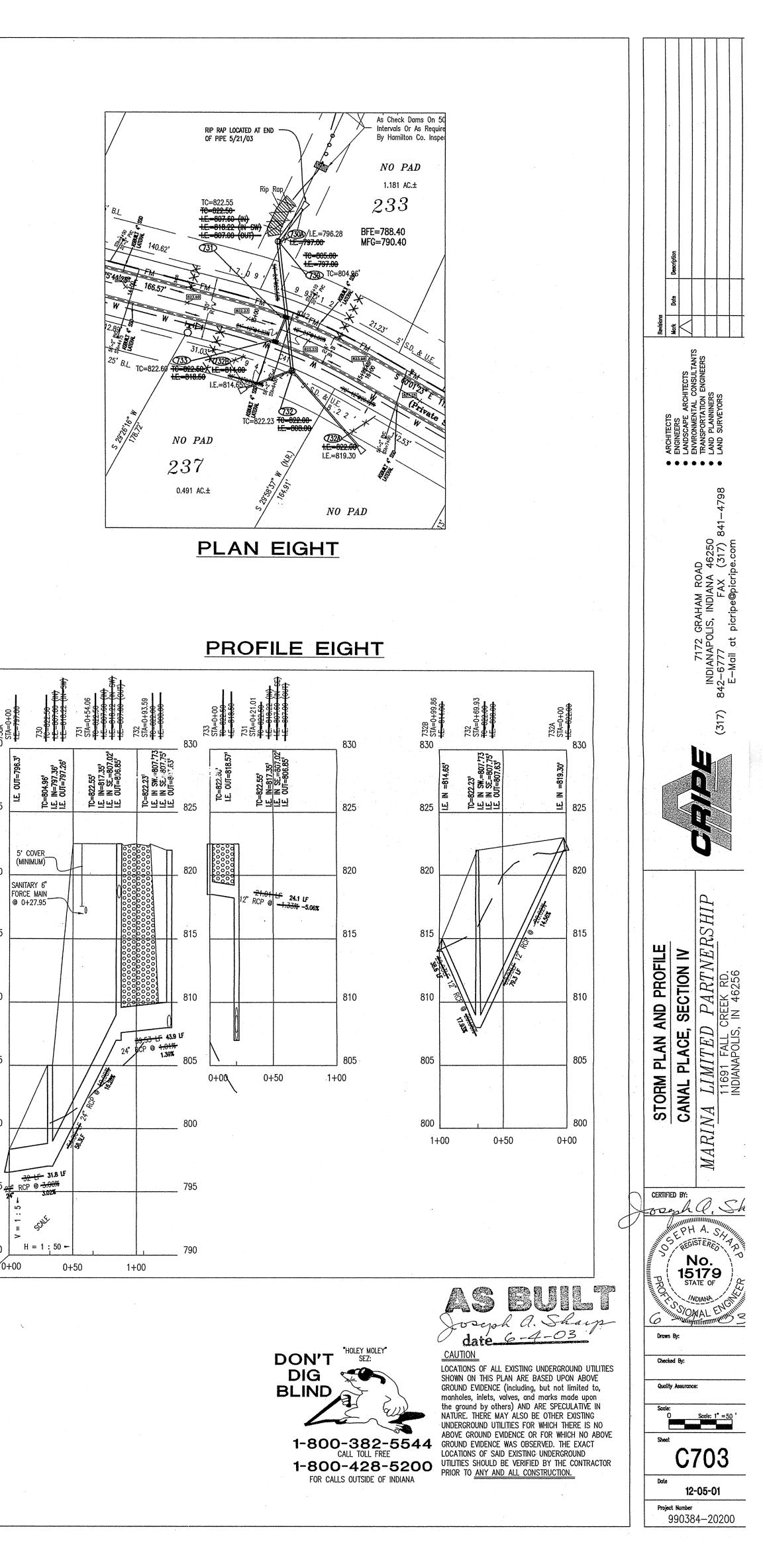
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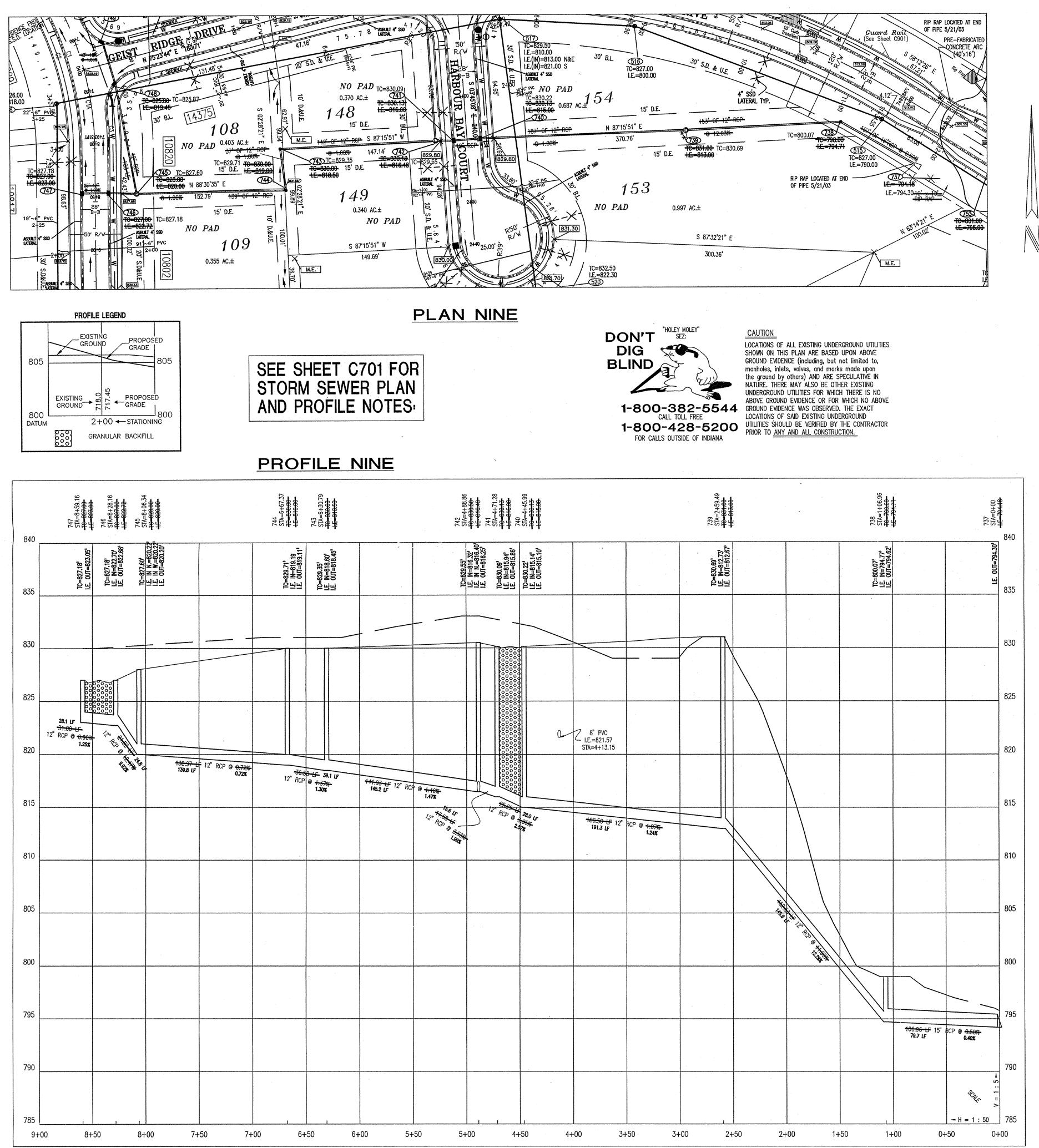
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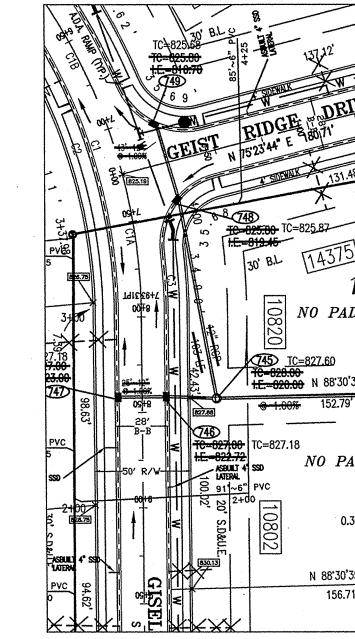
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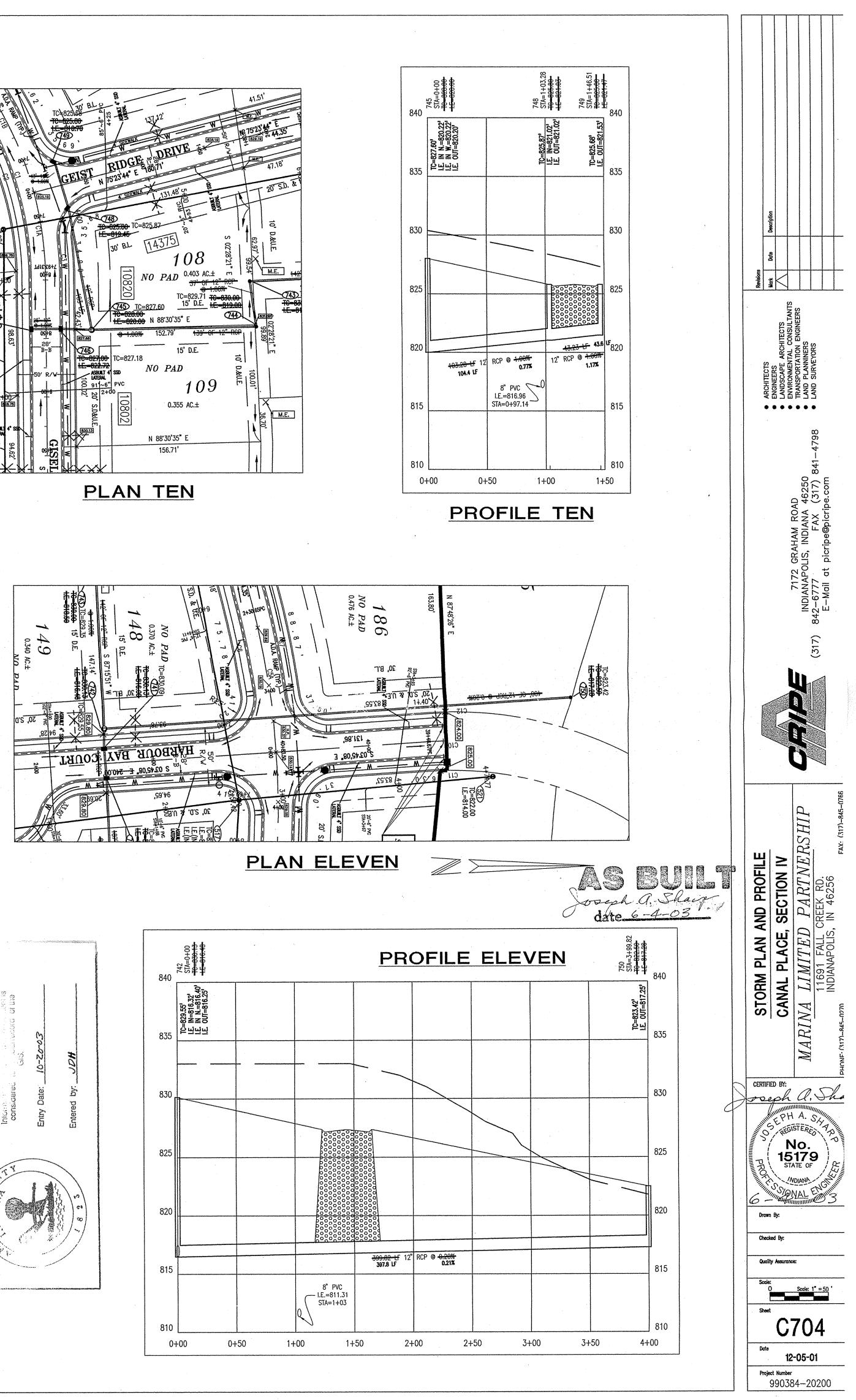
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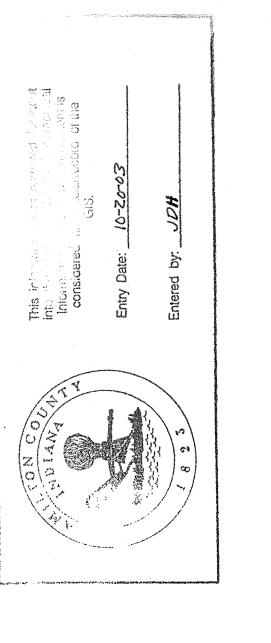
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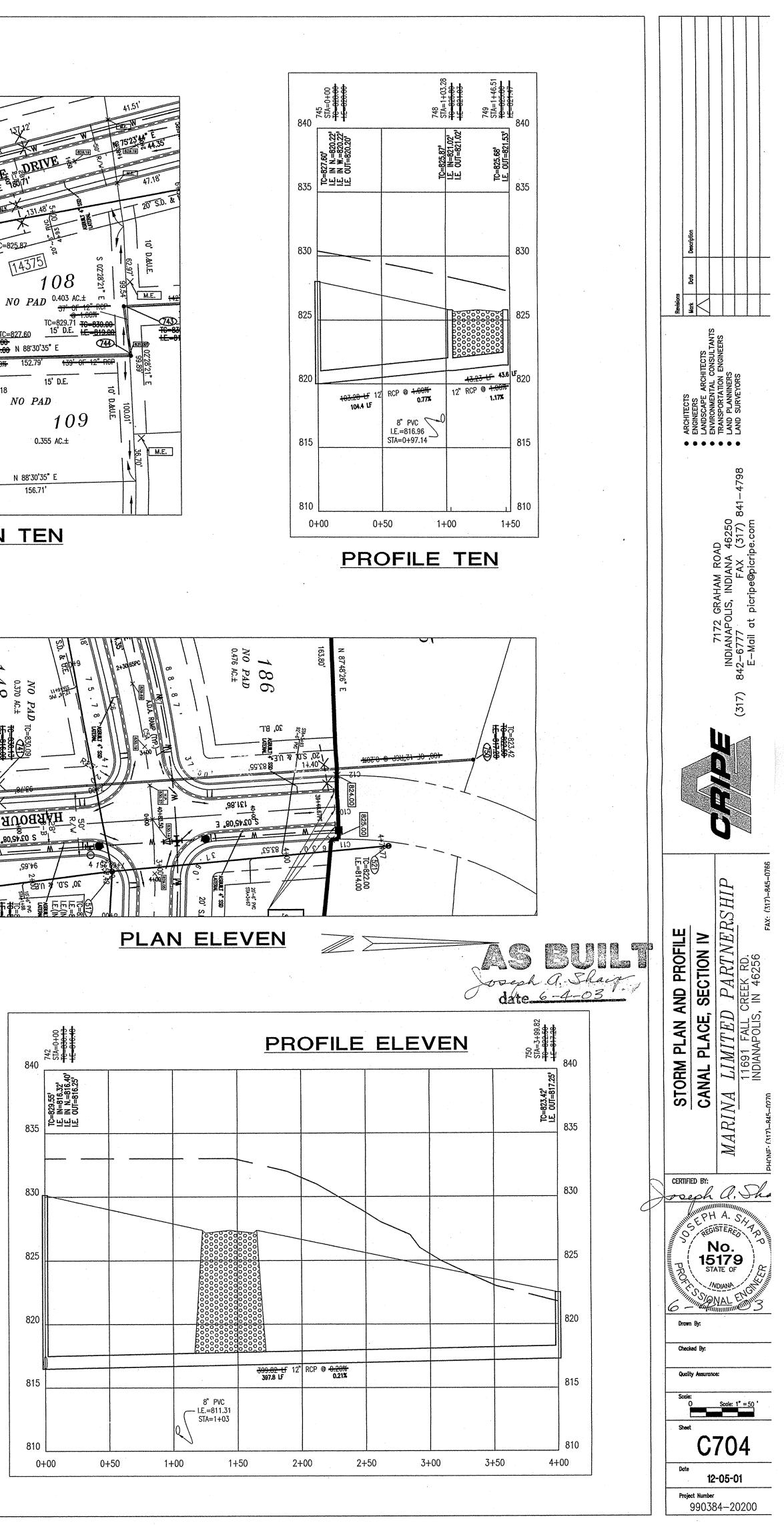


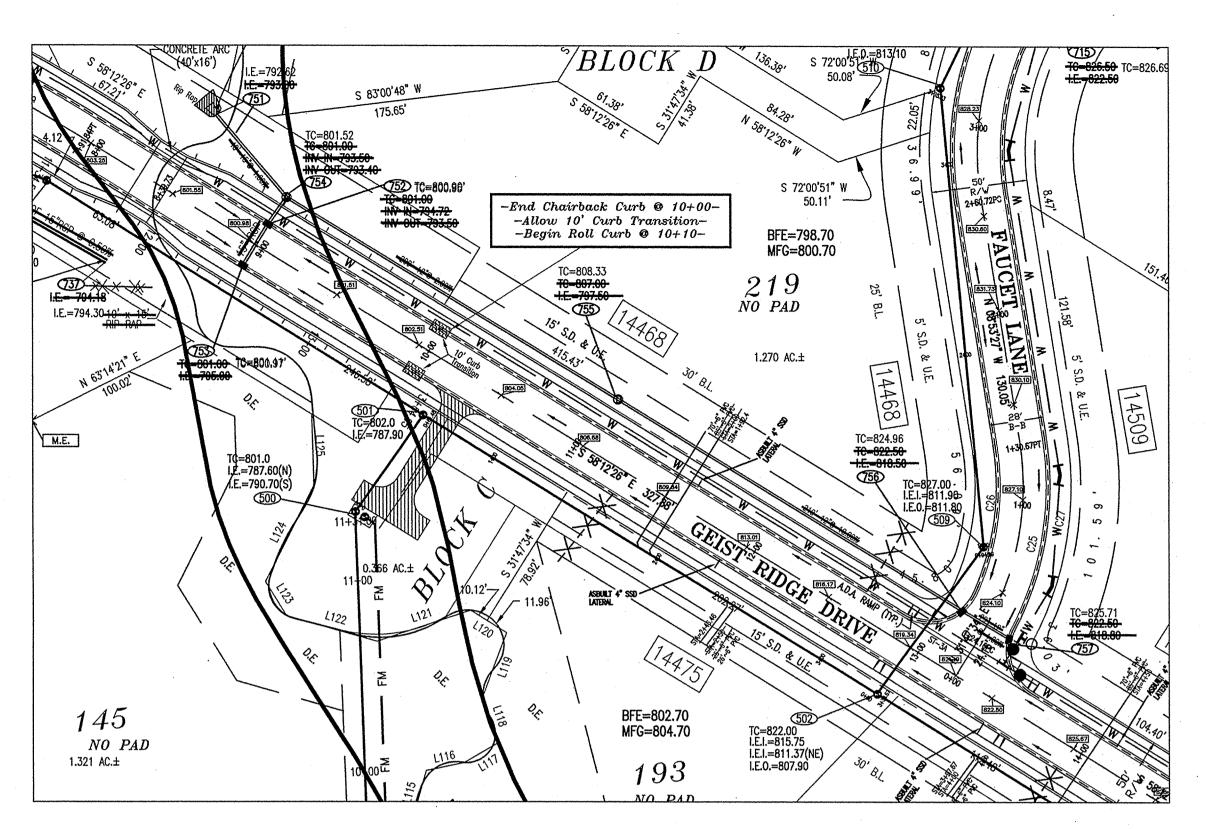






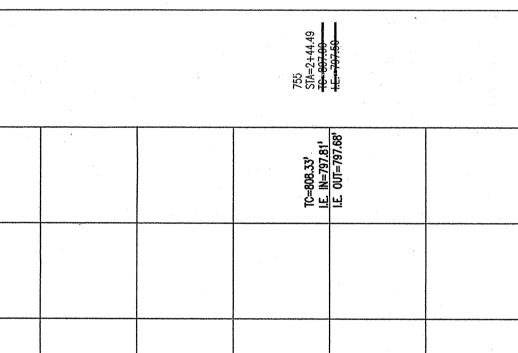






PLAN TWELVE

PROFILE TWELVE



830

