

Drain: JK COLLINS #1 Drain #: 88
Improvement/Arm: MERIDIAN CORNERS PHASE/HAMILTON CROSSING WEST PHASE II
Operator: J. LIVINGSTON Date: 11-19-03
Drain Classification: Urban/Rural Year Installed: 1989

GIS Drain Input Checklist

- Pull Source Documents for Scanning JKL
- Digitize & Attribute Tile Drains N/A
- Digitize & Attribute Storm Drains JKL
- Digitize & Attribute SSD N/A
- Digitize & Attribute Open Ditch JKL
- Stamp Plans JKL
- Sum drain lengths & Validate JKL
- Enter Improvements into Posse JKL
- Enter Drain Age into Posse N/A
- Sum drain length for Watershed in Posse N/A
- Check Database entries for errors JKL

**Gasb 34 Footages for Historical Cost
Drain Length Log**

Drain-Improvement: J.R. COLLINS - MERIDIAN CORNERS PHASE I
HAMILTON CROSSING WEST PHASE II

Drain Type:	Size:	Length ()	Length (DB Query)	Length Reconcile	Price:	Cost:
RCP	15"	550'	559'	9'		
	18"	43'	43'	0		
	21"	48	150'	102'		
	24"	716'	521'	-195'		
	27"	370'	357'	-13'		
	30"	56'	50'	0		
	36"	290'	290'	0		
	42"	1416'	1416'	0		
	48"	757	757'	0		
	54"	267'	267'	0		
OPEN DITCH	—	660'	480'	-180		
*RCP	21"	55'	55'	0		

Sum: 5222' 4945' - 277'

Final Report: 5235'

Comments:
ALL PIPE LENGTHS VERIFIED WITH ASBUILTS & REGULATED DRAIN
DESCRIPTION IN INITIAL/FINAL REPORTS. FINAL REPORT
LENGTH IS INCORRECT
→ OPEN DITCH → SEE PLAN SHEET 14 OF 79205-90000

* 21" RCP (55') APPEARS ON ASBUILTS FOR MERIDIAN CORNER BLVD RELOCATION (1999) AS EXISTING. EVEN THOUGH IT DOES NOT APPEAR ON THE ASBUILTS OR IN THE REPORTS FOR THESE IMPROVEMENTS, IT IS ADDED HERE BECAUSE IT EXISTS AND IS REGULATED.



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

Phone (317) 776-8495

Fax (317) 776-9628

Suite 146

One Hamilton County Square

Noblesville, Indiana 46060-2230

July 28, 1995

To: Hamilton County Drainage Board

Re: J.R. Collins #1
Hamilton Crossing West II
& Meridian Corners Phase I

Attached are as-builts, certificate of completion & compliance, and other information for Hamilton Crossing West & Meridian Corners. 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 9/12/88. The changes are as follows: The two 30" RCP pipes at the south end of the detention pond were replaced with Structures 743 to 742 which consists of 35' of 36" RCP and Structure 742 to 741 which consists of 255' of 36" RCP. Structure 735 to 710 that consisted of 252' of 18" RCP was not constructed. Structure 735 to Structure 706 of Phase I was left off the report. This structure was altered by 10' during Phase II. It now consists of 26' of 27" RCP. Structure 703 to the detention pond was changed from 217' of 54" RCP to 267' of 54" RCP.

The length of the drain due to the changes described above is now 5235 feet.

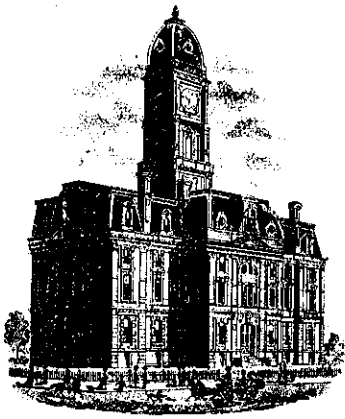
Non-enforcements will be presented on a site by site basis.

The bond or letter of credit from United States Fidelity & Guaranty Co., number 31-0120-1054-89-2, dated 5/30/89, in the amount of \$90,000.00, has been released.

I recommend the Board approve the drains construction as complete and acceptable.

Kenton C. Ward,
Hamilton County Surveyor

KCW/jlk



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

776-9626

Noblesville, Ind. 46060 September 12, 1988
verbal report given at
meeting

TO: Hamilton County Drainage Board

RE: J.R. Collins #1 Drain
REVISED REPORT

Attached is a petition, drain map drainage shed map, assessment roll and my original report to the Board, dated August 5, 1988, plans, calculations for the J.R. Collins #1 Drain. At this time the drain is number 30 on the Reconstruction List.

Attached is the submittals and petition and I have found each to be in proper form. The petition requests the drain to be relocated as shown on the attached plan from Cripe Engineers, dated September 1, 1988 and file stamped September 1, 1988, and described below. The petitioner will submit the non-enforcement requests at a later date.

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 benefitted. The petitioner shall bear all cost for the relocation.

The original drain will be intercepted at approximately STA 15 as described in the 1890 report. The relocated drain will then run West along the South side of 131st Street as storm sewer to the West side of the proposed Meridian Corners Blvd. The relocated drain will then be piped to run South along the West side of Meridian Corners Blvd. to an outlet into a retention facility. The drain will exit the South end of the retention facility via two (2) 30" RCP's and into a new open ditch. The relocated regulated drain will end at the South property line of James M. & Dorothy Correll, which is tract 09-35-00-00-001. The original drain

between STA 15 and 49+35 of the original 1890 report will be vacated. STA 49+35 is approximately the North line of the Correll property. STA 49+35 to the terminus at STA 53+05 will be left as described in the 1890 report.

The actual regulated drain will end at the original location which is thirty-six (36) feet South of the above described property line on the property of Lauth, Robert L. & Robin S., Tract 09-35-01-01-003, Lot 8 Williams Creek Farms. This tract is being notified although it is not being assessed at this time because maintenance work may be done on the drain in this short section sometime in the future. Sometime in the future the Board may also want to consider adding the remaining section of open ditch to the regulated drain, thus extending it approximately 1300 feet to Williams Creek through Williams Creek Farms.

The proposed regulated drain will also include other portions of the drainage plan for Meridian Corners. These shall include three (3) laterals running East under Meridian Corners Blvd. North of Dorset Blvd, storm sewer running West of the Main Drain along Dorset Blvd. to Springmill Road and the storm sewer system running along 126th Street. The retention facility will not be part of the regulated drain nor will the storm sewer line under 126th Street near the U.S. #31 R/W which empties into the retention facility for the Eaton & Lauth Meridian Park Place project. The system is within the W.R. Fertig Drainage Shed. The maintenance of the retention facility shall be the responsibility of the Developer.

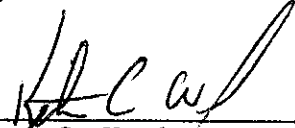
The portions included in the regulated drain will be those pipes between structures 740,739,727,726,725,734,724,732,733,731,730,723,729,722,737,736, 728, 735,703,704, STA 0+00, 703, pipe and inlets under Dorset Blvd. built with Phase 1, from STR 710 and 735 and 126th Street from STR 736 and 737. The pipe stubs running out of STR 731,733,729,722,723 and 724 are not included in the regulated drain at this time but may be in the future as the project develops.

The new lengths are as follows:

15" RCP	550ft	Open Ditch	660ft	30"	RCP	100ft
18" RCP	409ft	(Pond outlet to South		42"	RCP	1416ft
21" RCP	48ft	line Correll property)		48"	RCP	757ft
24" RCP	716ft	27" RCP	344ft	54"	RCP	217ft

I recommend the drain also be placed on a maintenance program at this time. I believe maintenance should be set at \$5.00 per acre, \$25.00 minimum. With 245.52 acres in the drainage shed the total annual assessment shall be \$1297.70. The drain should also be classified as an Urban Drain.

A hearing has been set for October 11, 1988. If approved at the hearing I recommend that petitioner be given one (1) year from date of approval for completion and submit a Performance Bond or Letter of Credit or other surety for 100% of the estimate within fifteen (15) days of approval. Said surety to run for a two (2) year period. The Surety is to be released upon final inspection by the Surveyor and submittal of "As Built" drawing. If not submitted the approval should be vacated at the next Board meeting.



Kenton C. Ward
Hamilton County Surveyor

KCW/no



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

776-9626

Noblesville, Ind. 46060 August 5, 1988

TO: Hamilton County Drainage Board

RE: J.R. Collins #1 Drain

Attached is a petition, non-enforcement request, plans, calculations for the J.R. Collins #1 Drain.

Attached is the submittals and petition and have found each to be in proper form. The petition requests the drain to be relocated as shown on the attached plan and described below.

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 benefitted. The petitioner shall bear all cost for the relocation.

The relocation will begin at approximately STA 15 of the original drain as described in the 1890 report. The original drain will be vacated from STA 16 to approximately STA 41+90. The drain will then consist of 1170 feet to 15" RCP, 627 feet of 42" RCP., 765 feet of 48" RCP and 205 feet of 54" RCP.

I recommend a hearing be set for October 1988.

FILED

AUG 8 1988

HAMILTON COUNTY DRAINAGE BOARD

Nancy Ellen [Signature]
SECRETARY

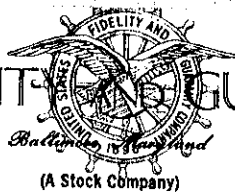
K.C. Ward

Kenton C. Ward
Hamilton County Surveyor

KCW/no

non-enforcement request

UNITED STATES FIDELITY AND GUARANTY COMPANY



J.R. COLLINS

PERFORMANCE BOND

Approved by The American Institute of Architects
A. I. A. Document No. A-311 (February 1970 Edition)

BOND NUMBER 31 0120 10514 89 2

KNOW ALL MEN BY THESE PRESENTS:

That Gradex, Inc., 3100 E. 56th Street, Indianapolis, Indiana 46220

hereinafter called Contractor, and UNITED STATES FIDELITY AND GUARANTY COMPANY, a corporation organized and existing under the laws of the State of Maryland, Baltimore, Maryland, as Surety, hereinafter called Surety, are held and firmly bound unto Dukemill Associates Limited Partnership and Hamilton County Commissioners

as Obligee, hereinafter called Owner, in the amount of Ninety thousand and no cents Dollars (\$90,000.00), for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Contractor has by written agreement dated May 30, 1989, entered into a contract with Owner for Relocation of Legal Drain construction of the lake and performance of offsite drainage improvements for Hamilton Crossing West Phase II

in accordance with drawings and specifications prepared by Paul Cripe, Inc., 7172 Graham Road, Indianapolis, Indiana 46250 (Here insert full name, title and address), which contract is by reference made a part hereof, and is hereinafter referred to as the Contract.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Contractor shall promptly and faithfully perform said Contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

The Surety hereby waives notice of any alteration or extension of time made by the Owner.

Whenever Contractor shall be, and declared by Owner to be in default under the Contract, the Owner having performed Owner's obligations thereunder, the Surety may promptly remedy the default, or shall promptly

ATTORNEY-IN-FACT AFFIDAVIT

STATE OR COMMONWEALTH OF Indiana
COUNTY OR CITY OF Marion } SS:

Before me, a Notary Public, personally came John S. Modrall known to me, and known to be the Attorney-in-Fact of United States Fidelity and Guaranty Company, a Maryland Corporation, which executed the attached bond as surety, who deposed and said that his signature and the corporate seal of said United States Fidelity and Guaranty Company were affixed by order and authority of said Company's Board of Directors, and that the execution of the attached bond is the free act and deed of United States Fidelity and Guaranty Company.

Given under my hand and seal this 8th day of June, 1989.

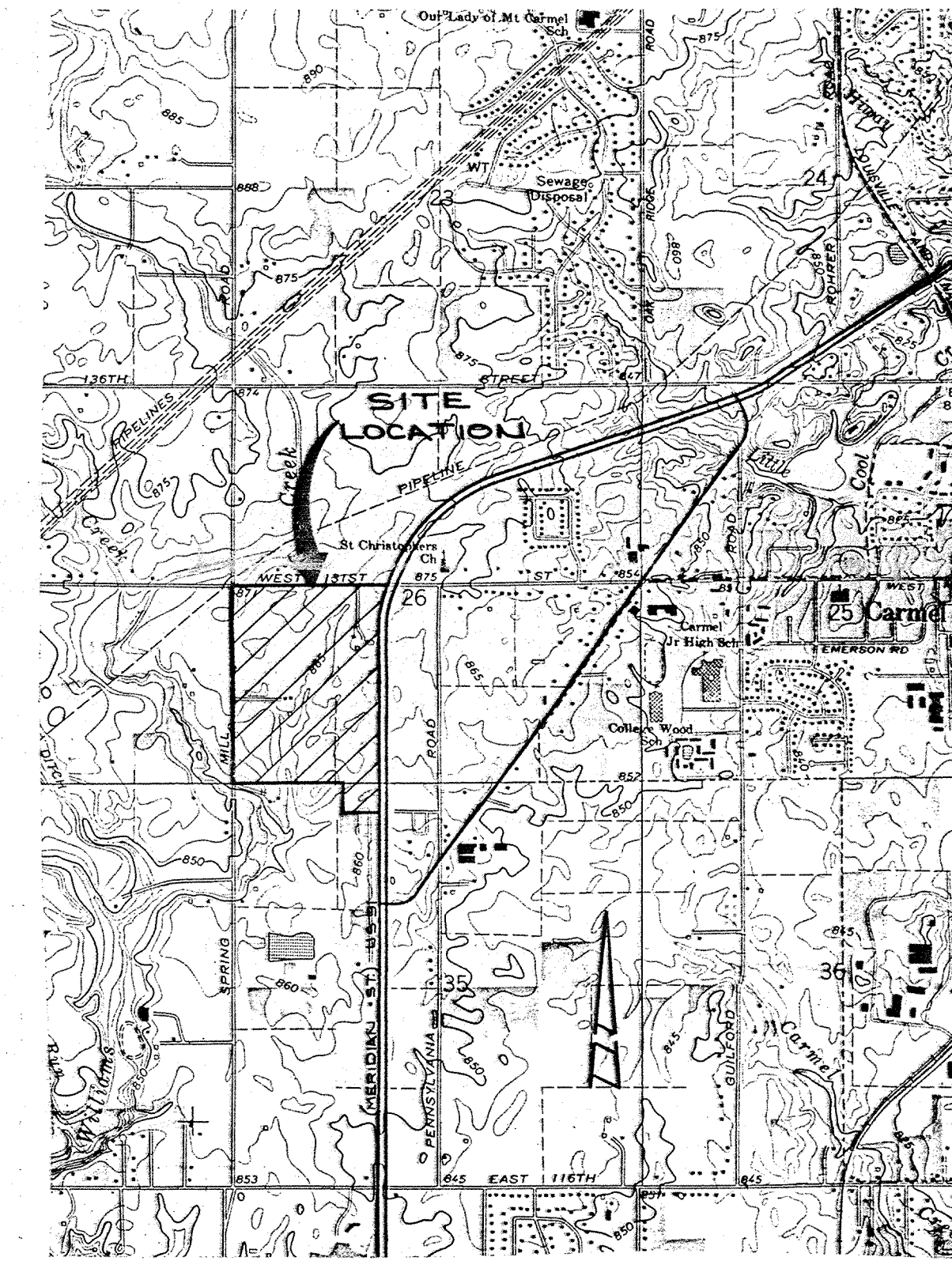
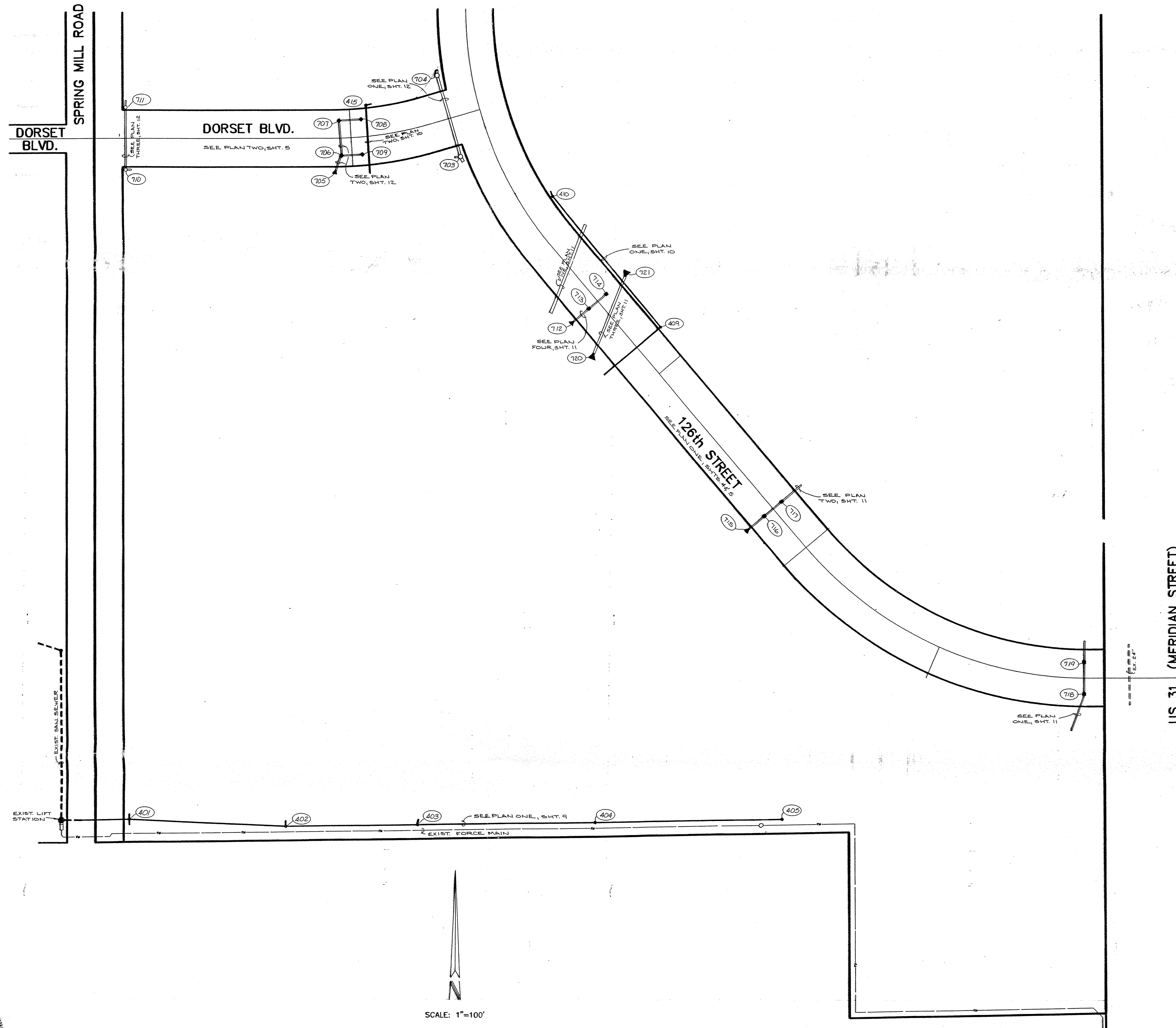
Shirley C. Fowler
Notary Public.

My Commission expires December 20, 1990

Jud. 876 (9-87)

Contract 211 (2-70)

CONSTRUCTION PLANS FOR MERIDIAN CORNERS-PHASE ONE



AREA MAP
SCALE: 1"=2000'

INDEX	
SHT	DESCRIPTION
1.	COVER SHEET
*2.	SITE DEVELOPMENT PLAN (EAST HALF)
*3.	SITE DEVELOPMENT PLAN (WEST HALF)
4.	STREET PLAN & PROFILE
5.	STREET PLAN & PROFILE
6.	STREET DETAIL
7.	STREET DETAIL
8.	STREET DETAIL
9.	SANITARY SEWER PLAN & PROFILE
10.	SANITARY SEWER PLAN & PROFILE
11.	STORM SEWER PLAN & PROFILE
12.	STORM SEWER PLAN & PROFILE
13.	DETAILS
14.	SPECIFICATIONS

* SHEETS 24 & 25 ARE IN TUBE # 1869

BENCHMARKS

NO.	DESCRIPTION	ELEVATION

REVISIONS

NO.	DATE	DESCRIPTION	BY
4-10-88	REV. PAVT WIDTH ON TURNOUTS (TO 30')	ADD MEDIAN TO 126th ST. @ US 31 (SHT. 5)	JK
4-19-88	REV. PER DRAFT CHK.		JK
5-21-88	REV. STORM SEWER (REMOVE M.H.'S, STR. #124 & 125) PLAN FOUR, SHT. 11 & ADD TURNOUT @ STA. 413000 - STREET PLANS		JK
6-10-88	REV. SAN. MH CASTING TYPES & S.M. SPECS.		JK
6-13-88	REV. LOCATION OF INTERSECTION ON DORSET BLVD. (SHTS. 3, 5, 7, 8, 10 & 12)		JK

1/26/89 CHANGED JOB NUMBER TO 89311-00000
03/21/89 ADDED AS-BUILT INFORMATION SHTS 2, 3, 6-12 D.T.S.

This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

Entry Date: 11-19-03
Entered by: [Signature]

JOSEPH A. SHAY
REGISTERED PROFESSIONAL ENGINEER
No. 15179
STATE OF INDIANA
5-20-88 DATE

NO.	DATE	DESCRIPTION

PAUL I. CRIFE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777


• CIVIL ENGINEERING
• LAND SURVEYING
• ARCHITECTURE
• LAND PLANNING

TECH. CHK: dks
DRFTNG. CHK: JG

DRAWN BY: [Signature]
SCALE: As Noted
DATE: 3-30-88
CLIENT: MERIDIAN CORNERS

COVER SHEET

DWG. TYPE	FILE NUMBER	SHEET:
		1
JOB NUMBER		OF 14
89311-00000		

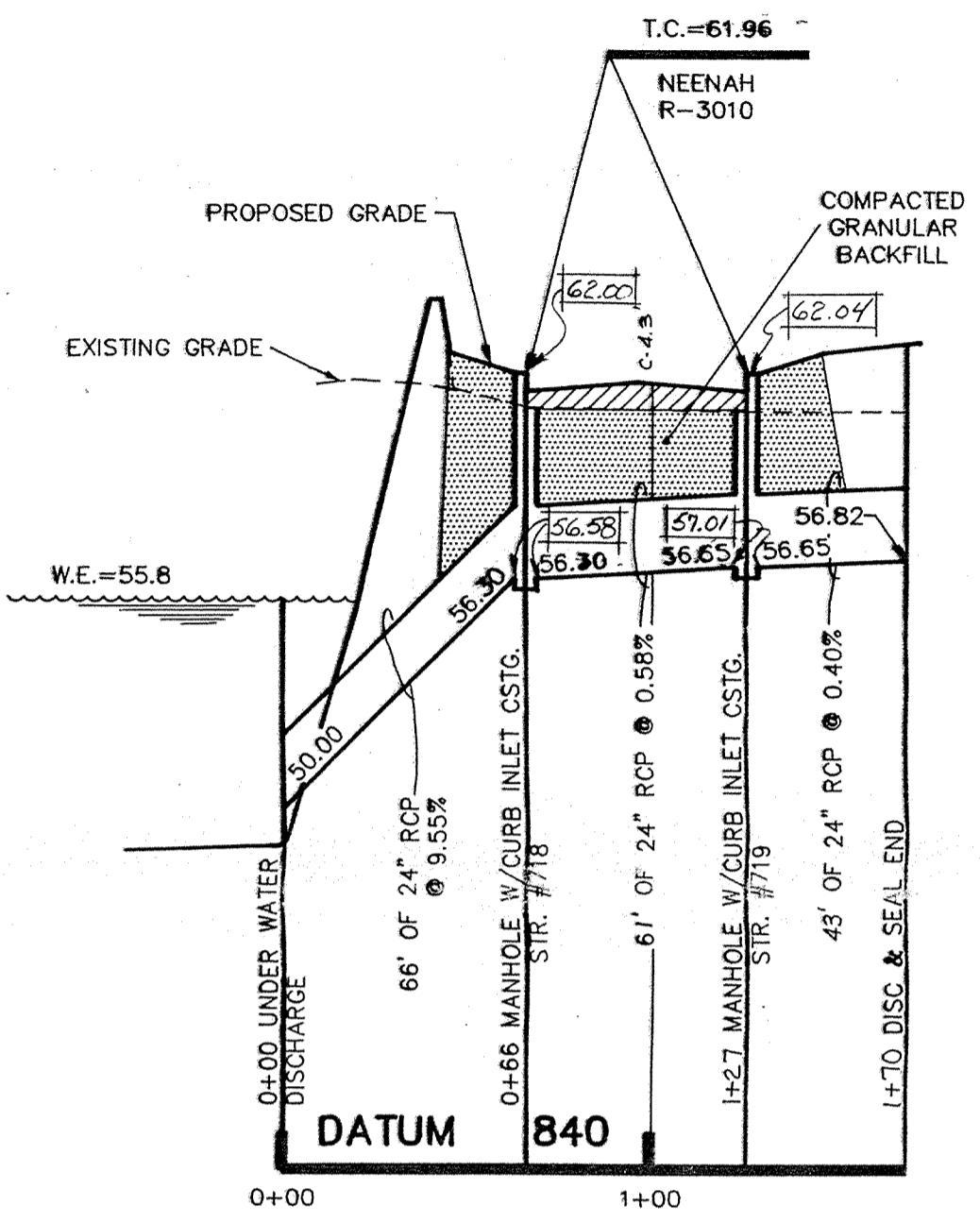


This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

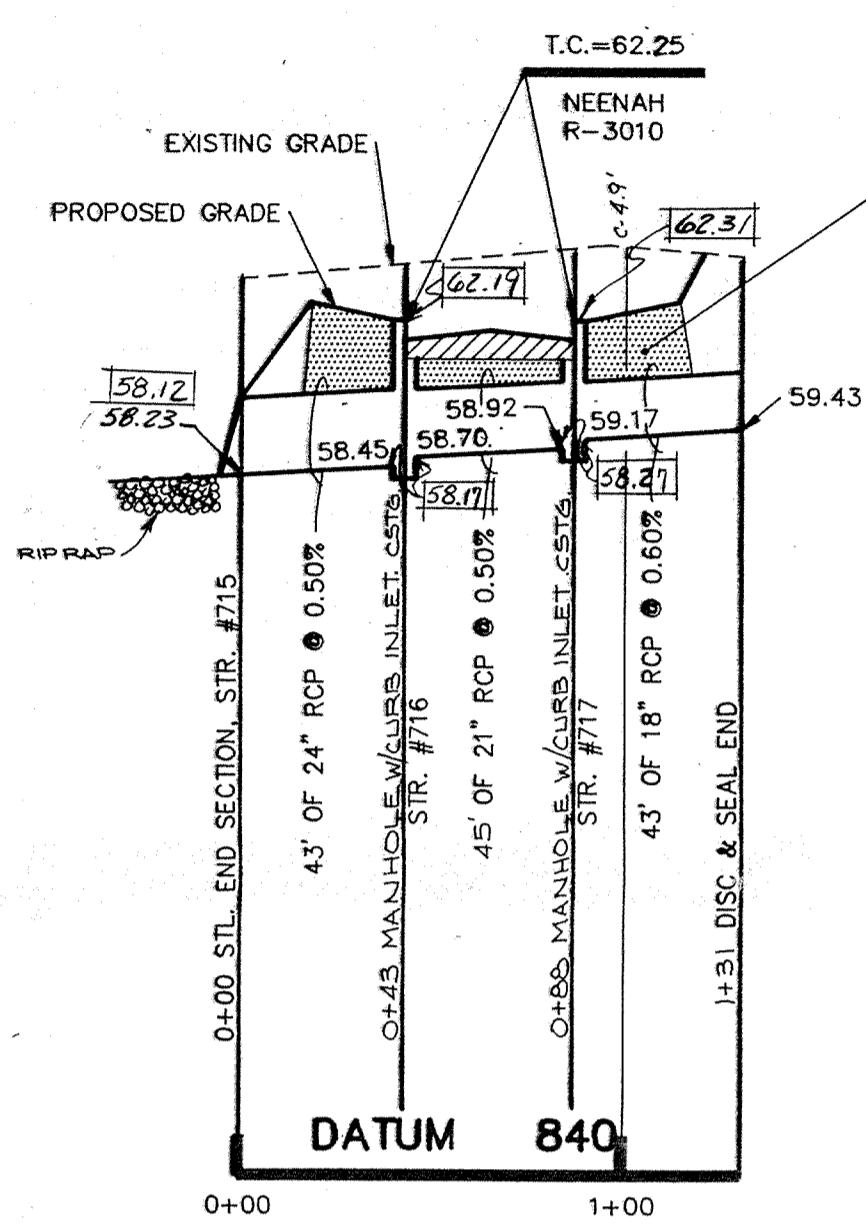
Entry Date: 11-19-03

Entered by: *Jay*

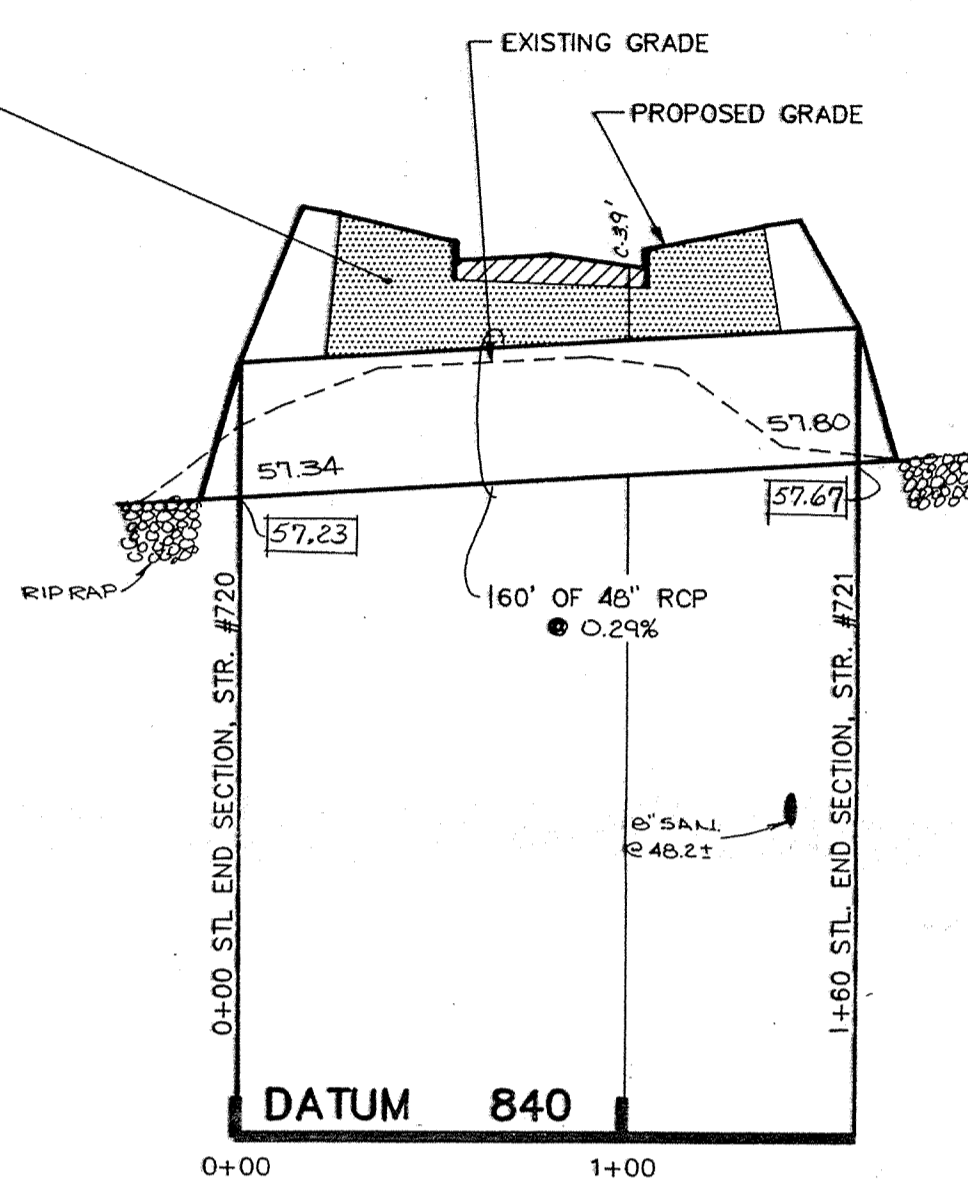
NOTE: CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXISTING GRADE TO INVERT OF PIPE.



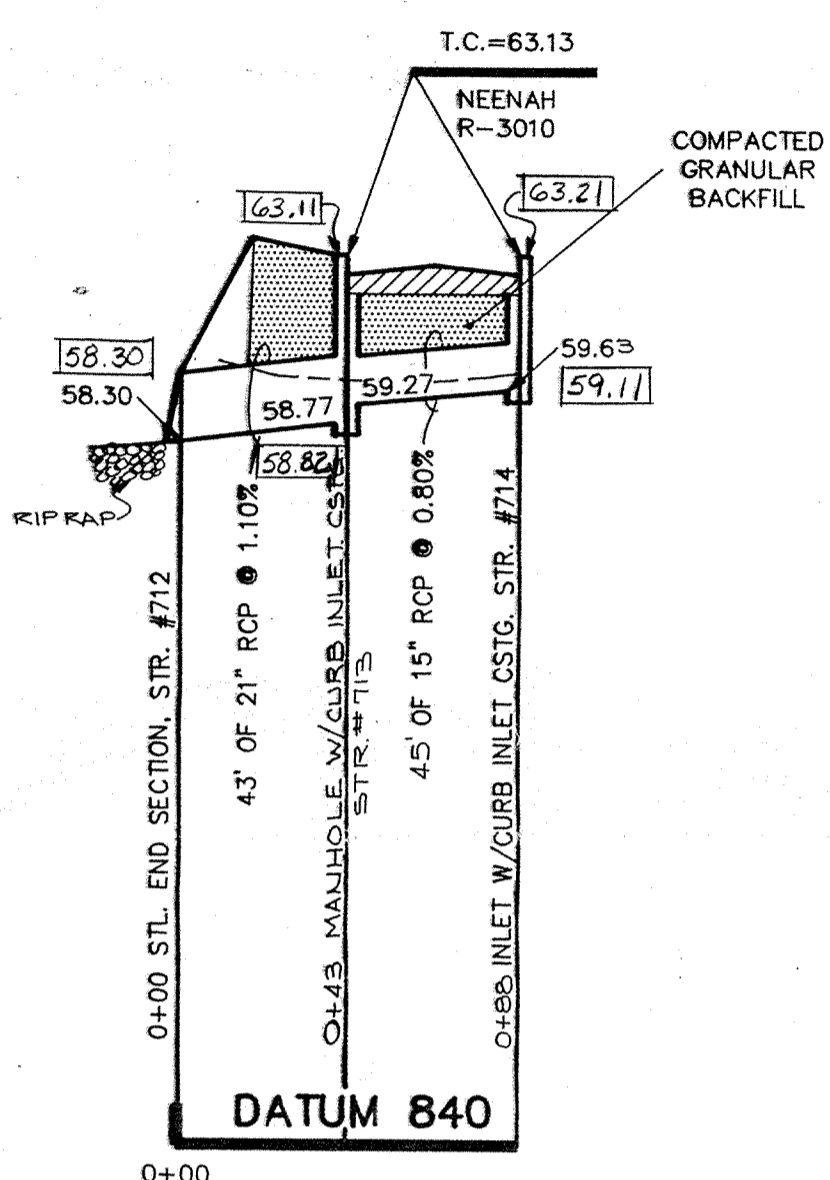
PROFILE ONE



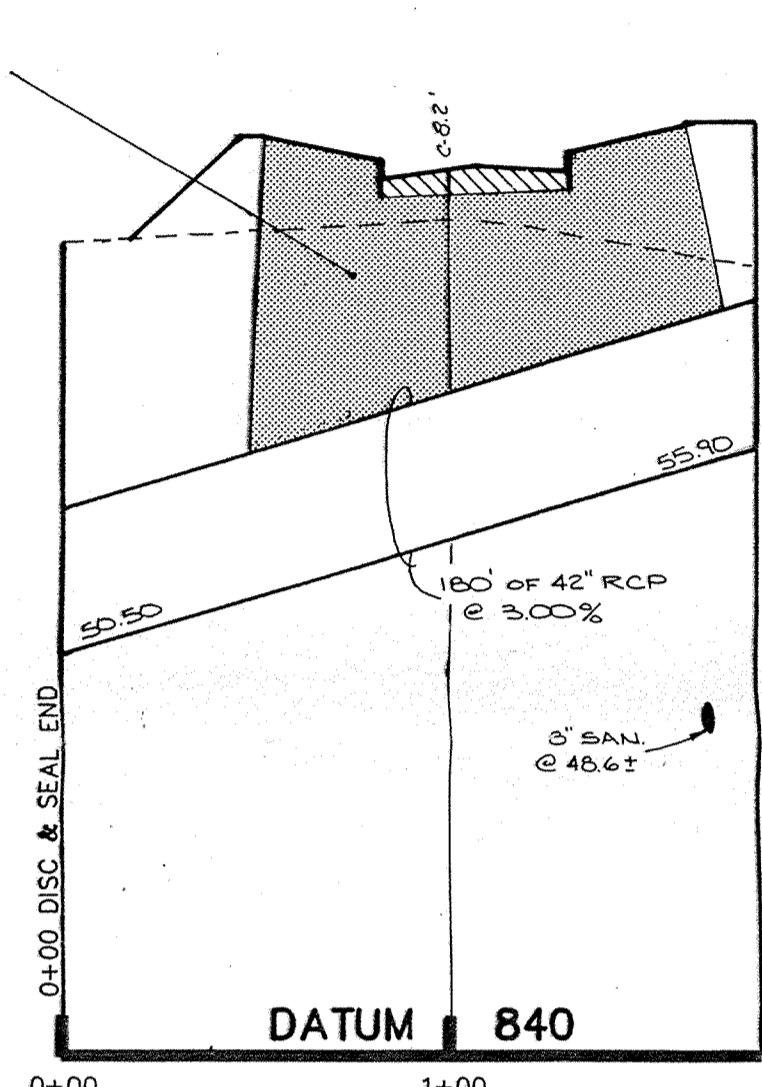
PROFILE TWO



PROFILE THREE

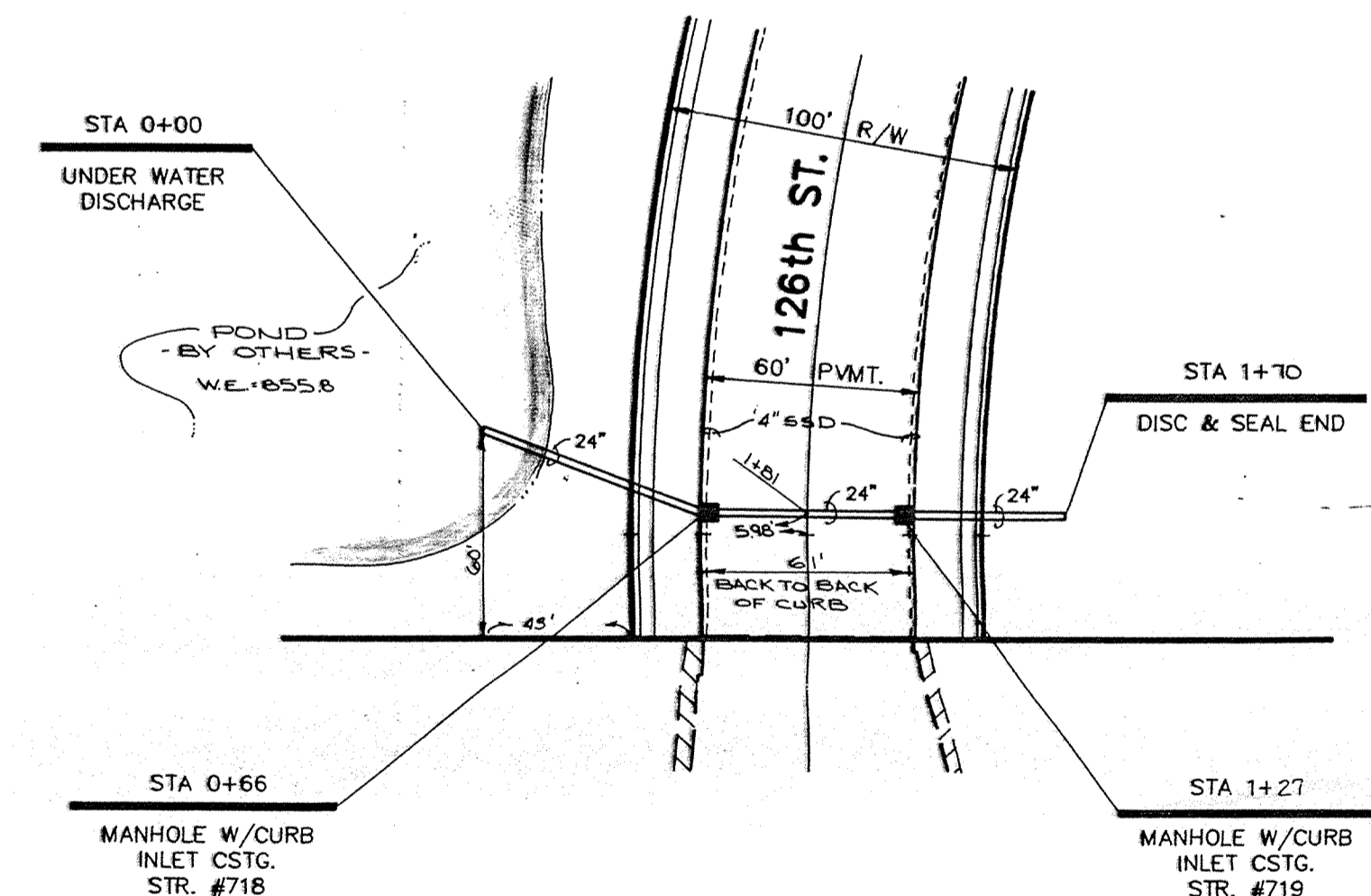


PROFILE FOUR

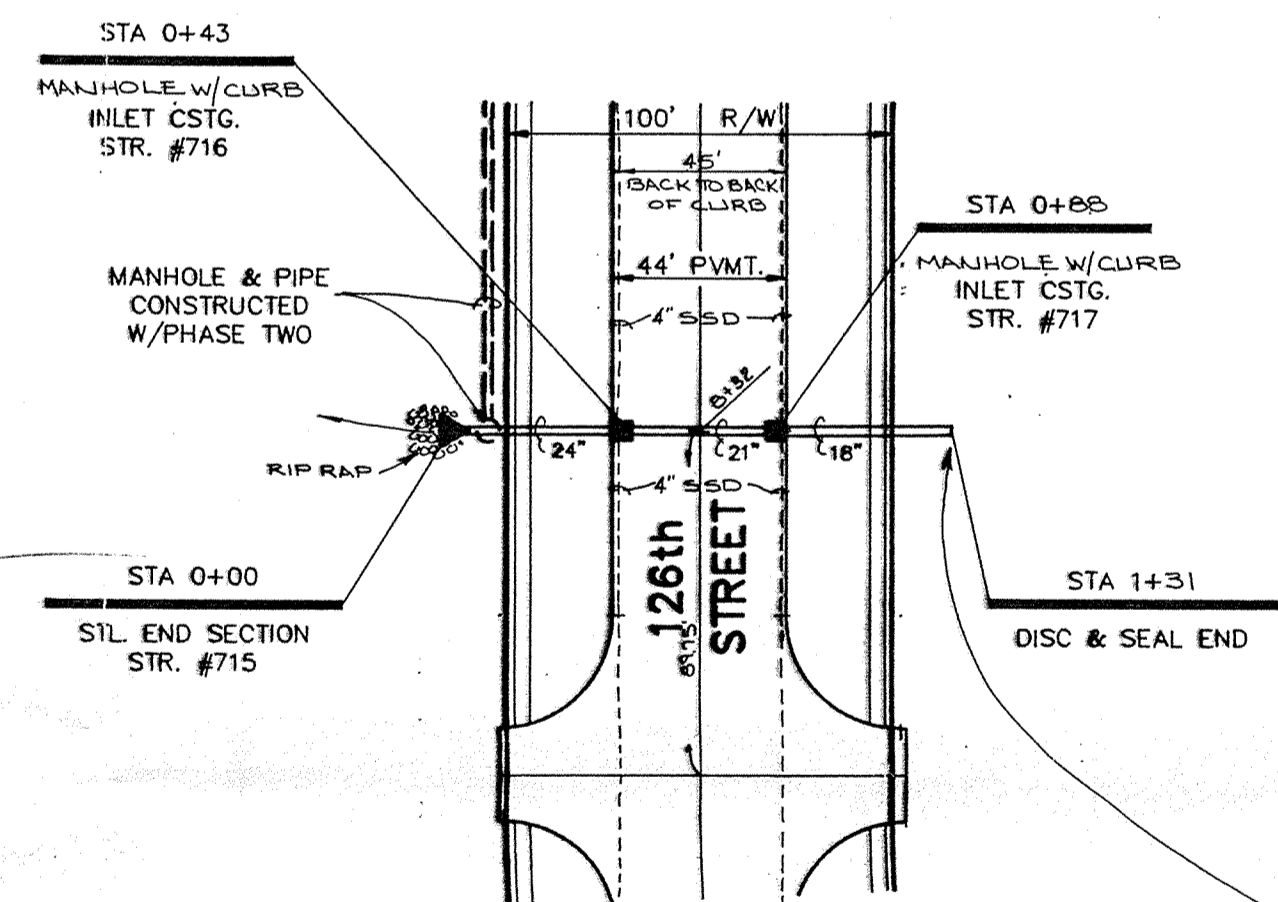


PROFILE FIVE

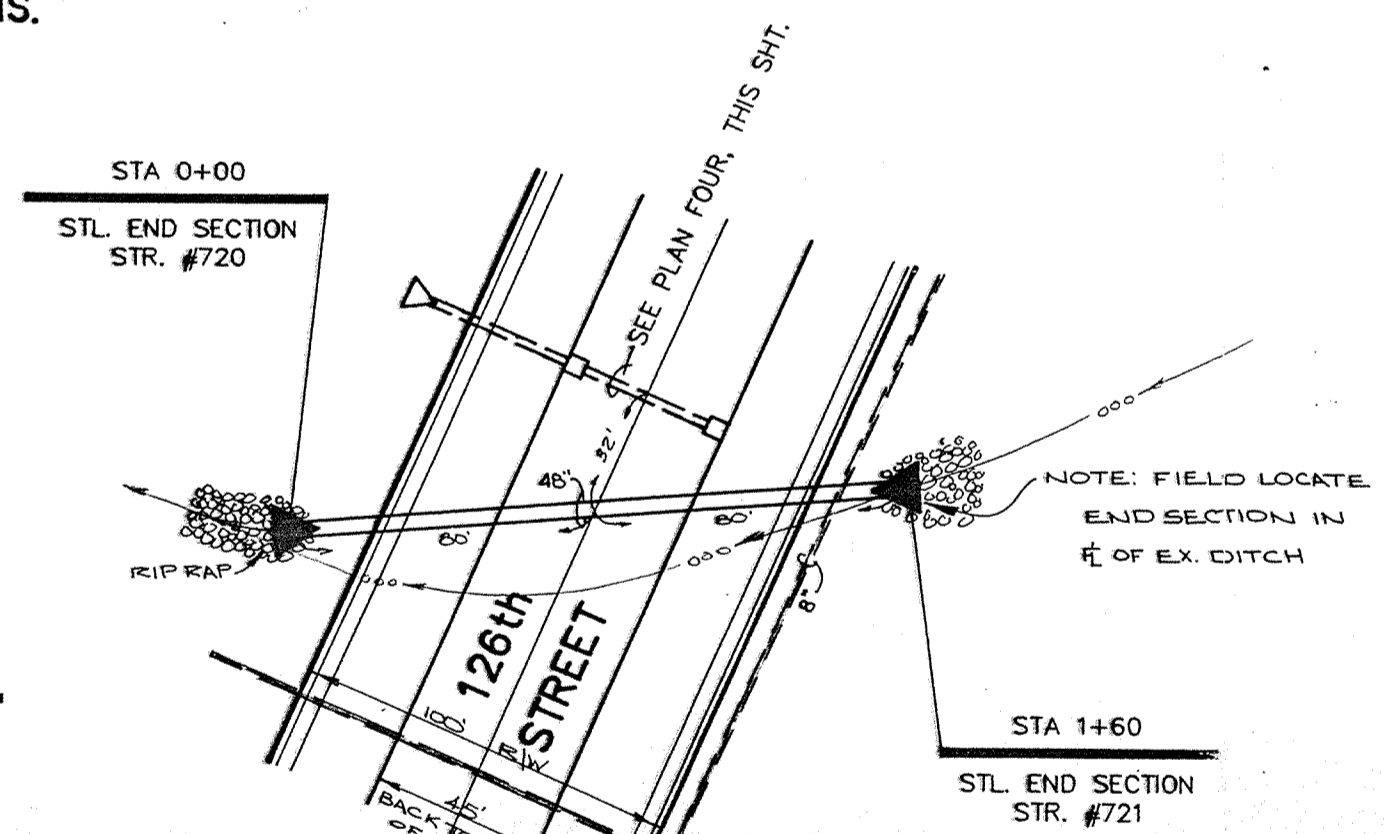
NOTE: FIELD ADJUSTMENT BY ENGINEER MAY BE REQUIRED AT ALL OUTFALL POINTS TO INSURE PROPER OUTFALL CONDITIONS.



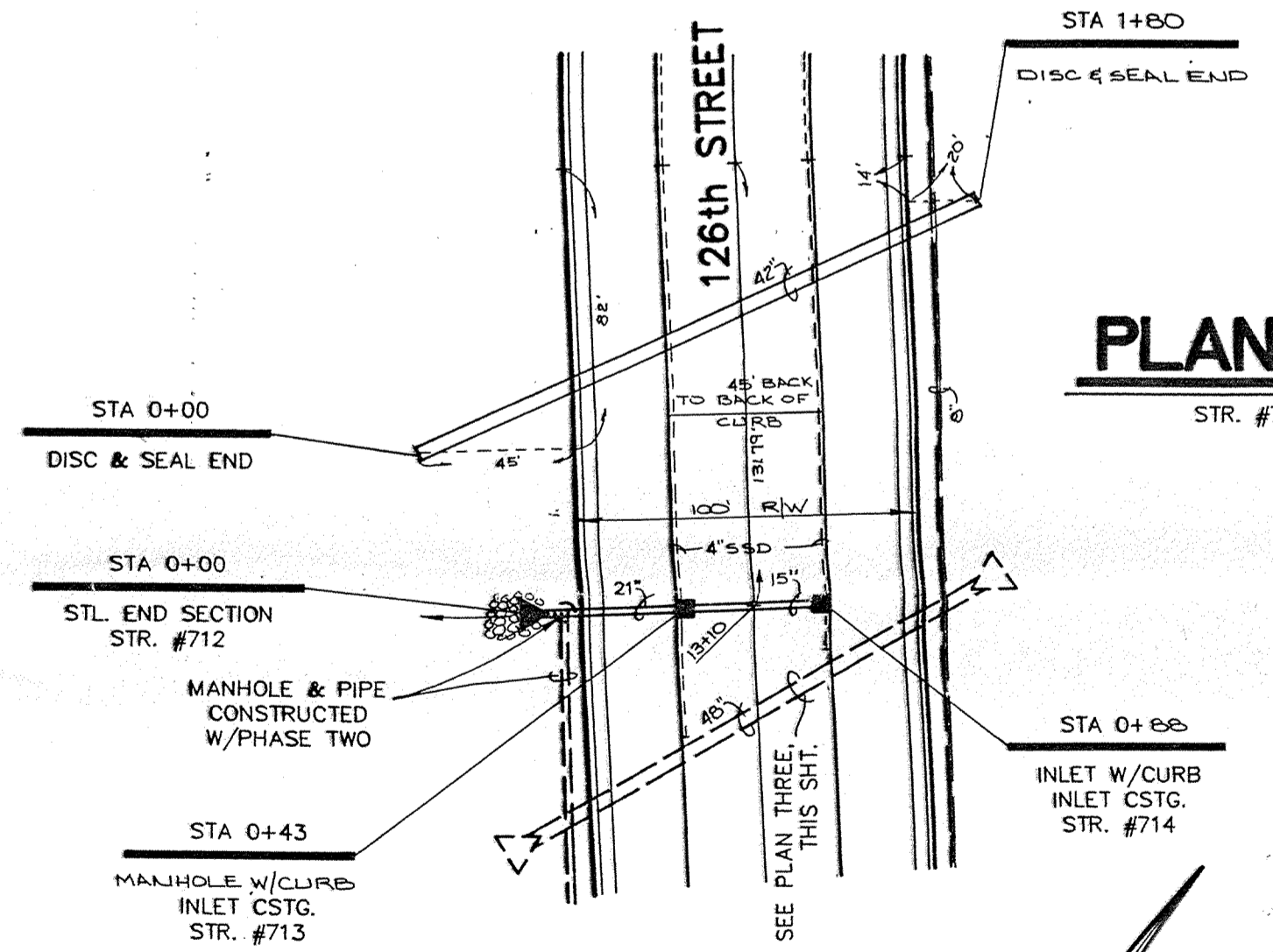
PLAN ONE



PLAN TWO



PLAN THREE

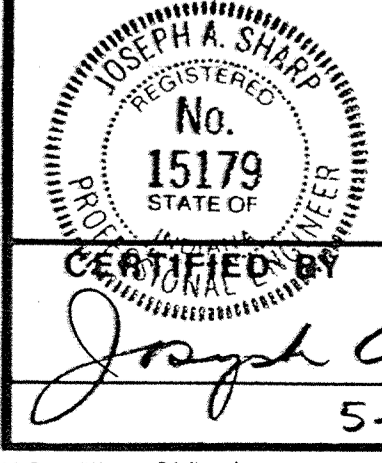


PLAN FOUR

PLAN FIVE

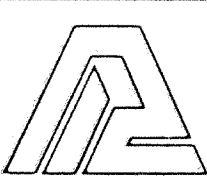
NOTE: CONTRACTOR SHALL PLACE A GREEN PAINTED STEEL FENCE POST @ FINISH GRADE DIRECTLY ABOVE ENDS OF ALL STORM SEWERS (TYP)

90.00 = INDICATES AS-BUILT INFORMATION



CERTIFIED BY
Joseph A. Shays
5-20-88 DATE

REVISIONS	
4-19-88	REV. PER DRAFT CHK. <i>KJK</i>
5-21-88	REV. P.4 - REMOVE M.H.'S. <i>KJK</i>
03/21/89	ADDED AS-BUILT INFORMATION. <i>D.J.S.</i>



PAUL I. CRIFE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH. CHK.
DFTNG. CHK. *LG*

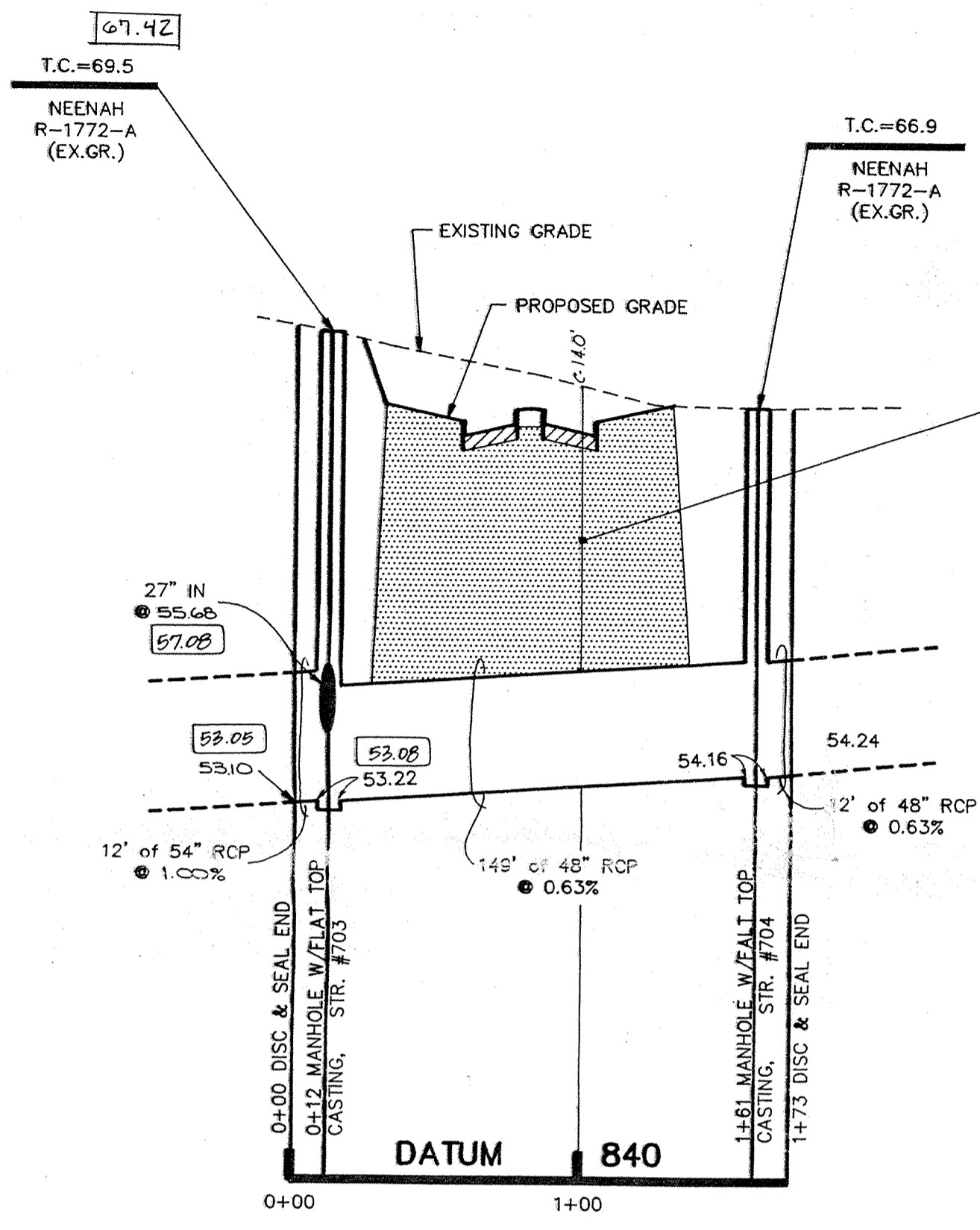
DRAWN BY *JTS*
DRAWING TITLE

SCALE
DATE 3-30-88

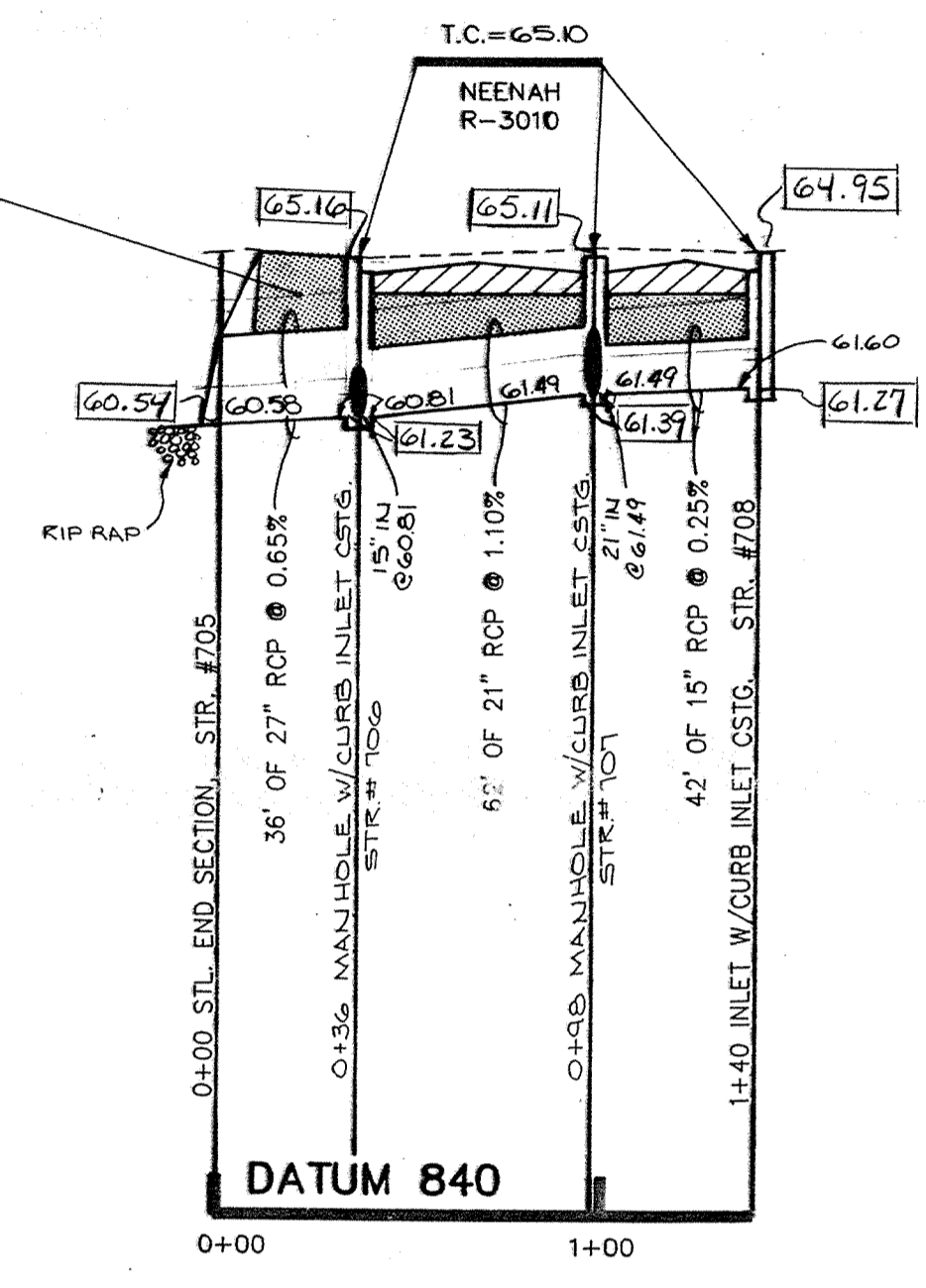
CLIENT
MERIDIAN CORNERS - PHASE 1

DWG. TYPE	FILE NUMBER	SHEET
89311	000000	11 OF 14

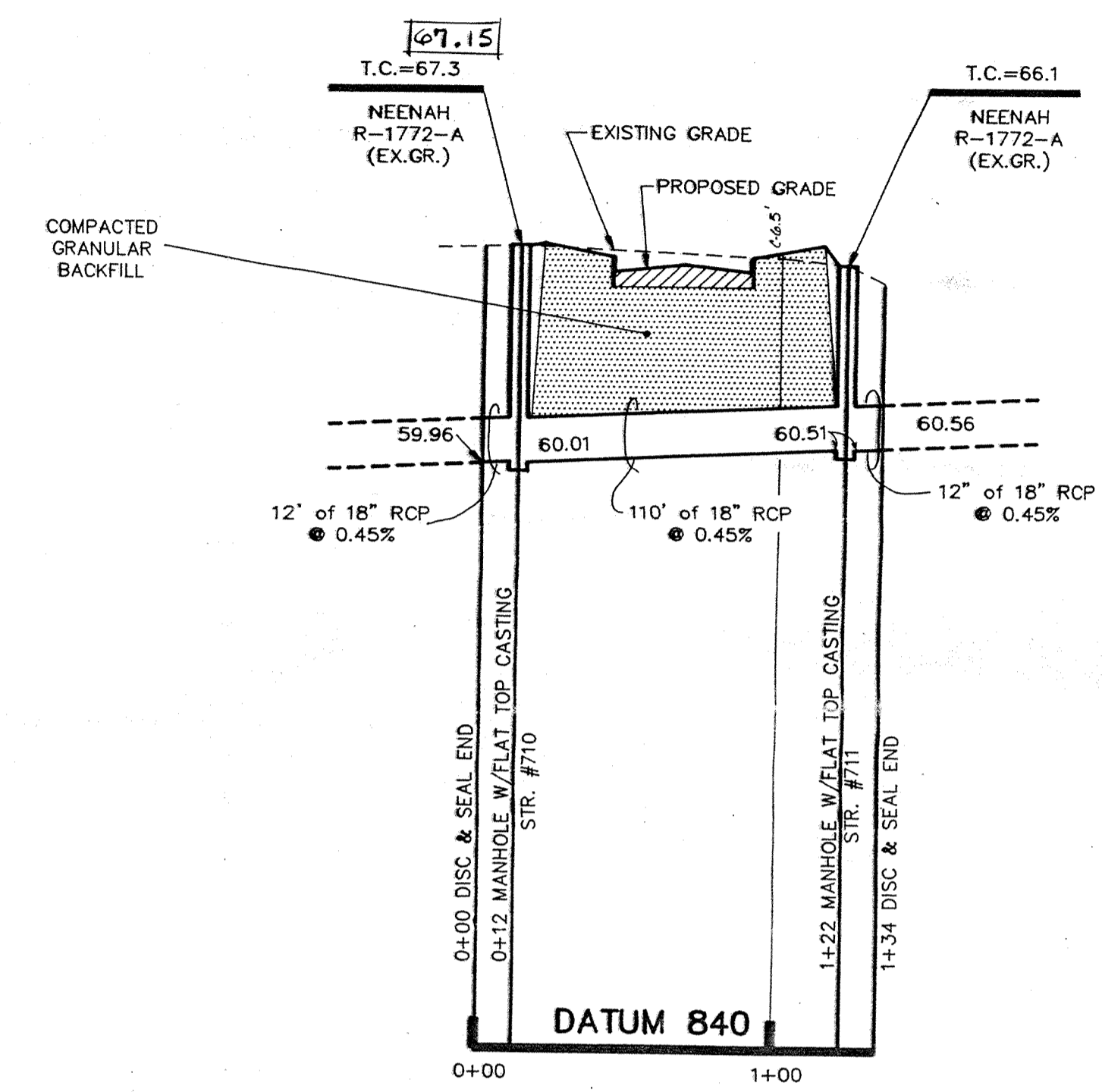
NOTE: CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXISTING GRADE TO INVERT OF PIPE.



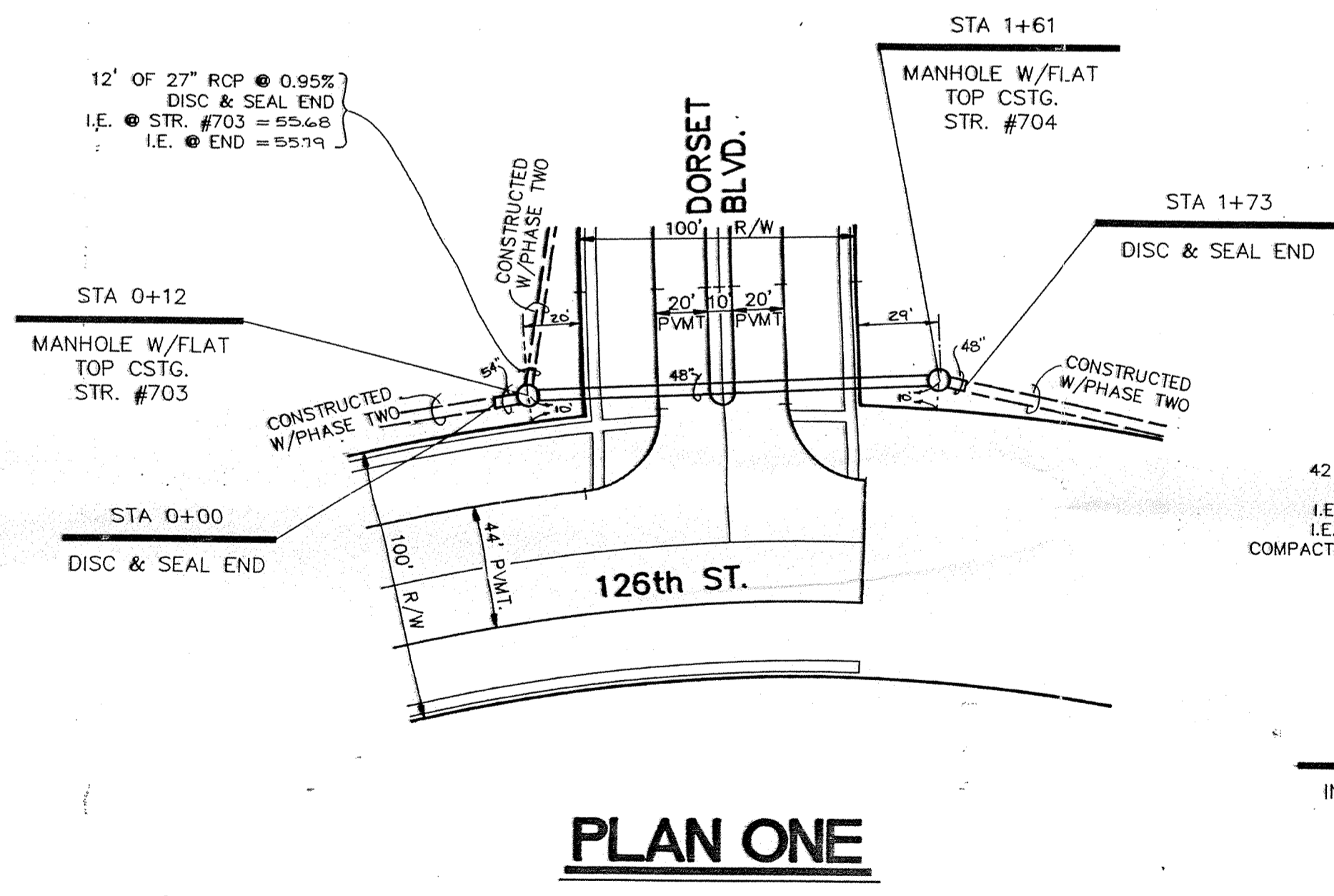
PROFILE ONE



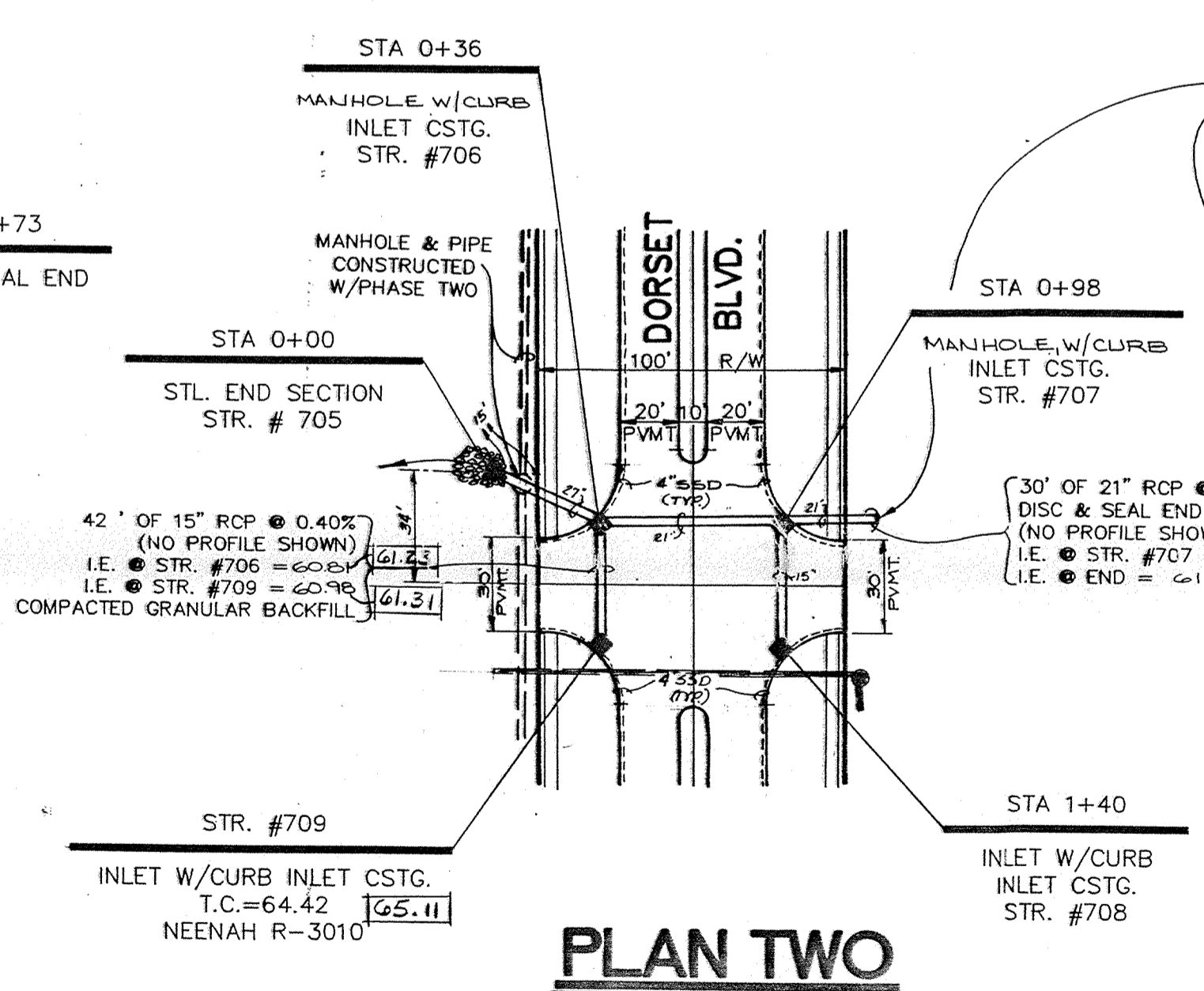
PROFILE TWO



PROFILE THREE

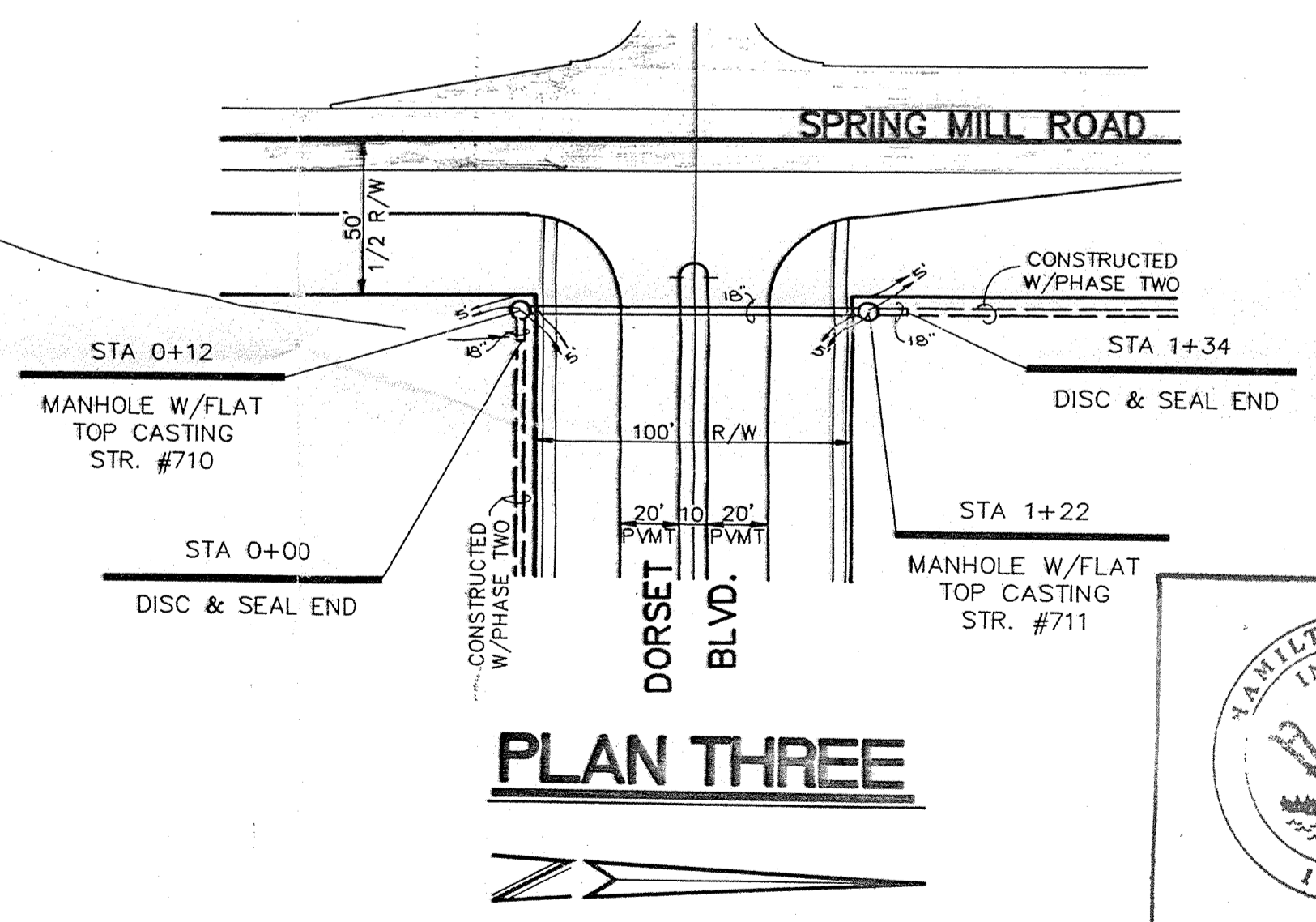


PLAN ONE



PLAN TWO

CONTRACTOR SHALL PLACE A GREEN PAINTED STEEL FENCE POST @ FINISH GRADE DIRECTLY OVER ENDS OF ALL STORM SEWERS.(TYP)



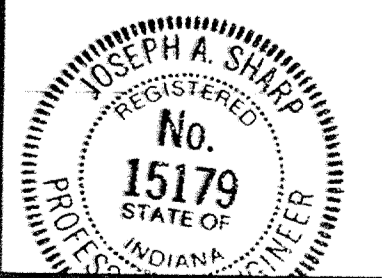
PLAN THREE

HAMILTON COUNTY INDIANA 1823

This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

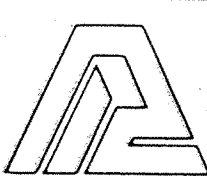
Entry Date: 11-19-03

Entered by: *[Signature]*



CERTIFIED BY
Joseph A. Sharp
5-20-88 DATE

REVISIONS	
4-19-88	REV. PER DRAFT CHK.
6-13-88	REV. PLAN & PROFILE TWO (INTERSECTION)
	REV. 21\"/>
03/21/89	ADDED AS-BUILT INFORMATION D.T.S.



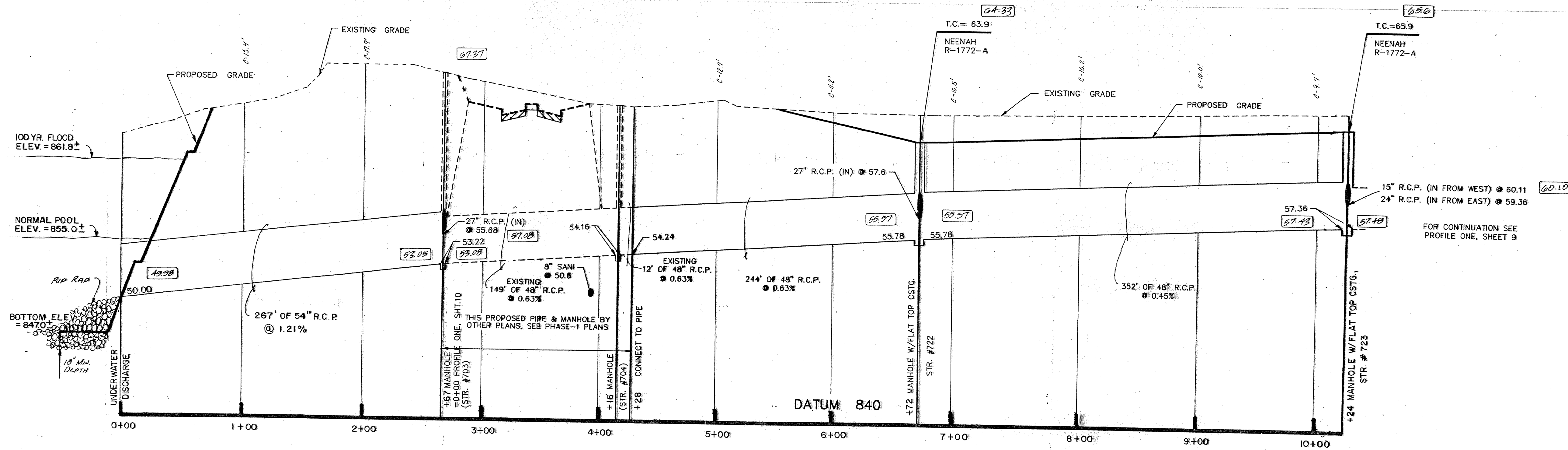
PAUL I. CRIFE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH. CHK.	DRAWN BY	SCALE	DATE	CLIENT	DWG. TYPE	FILE NUMBER	SHEET
	<i>[Signature]</i>	HORIZ. 1\"/>					
DFTNG. CHK.	DRAWING TITLE	STORM SEWER - PLAN & PROFILE		JOB NUMBER		12	OF 14
<i>[Signature]</i>				89311-00000			

99.00 INDICATES AS-BUILT INFORMATION


NOTE: CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXISTING GRADE TO INV. OF PROPOSED PIPE. FIELD ADJUSTMENT BY ENGINEER MAY BE REQUIRED AT ALL OUTFALL POINTS TO INSURE PROPER OUTFALL CONDITIONS.



PROFILE ONE

00.00 AS-BUILT INFORMATION

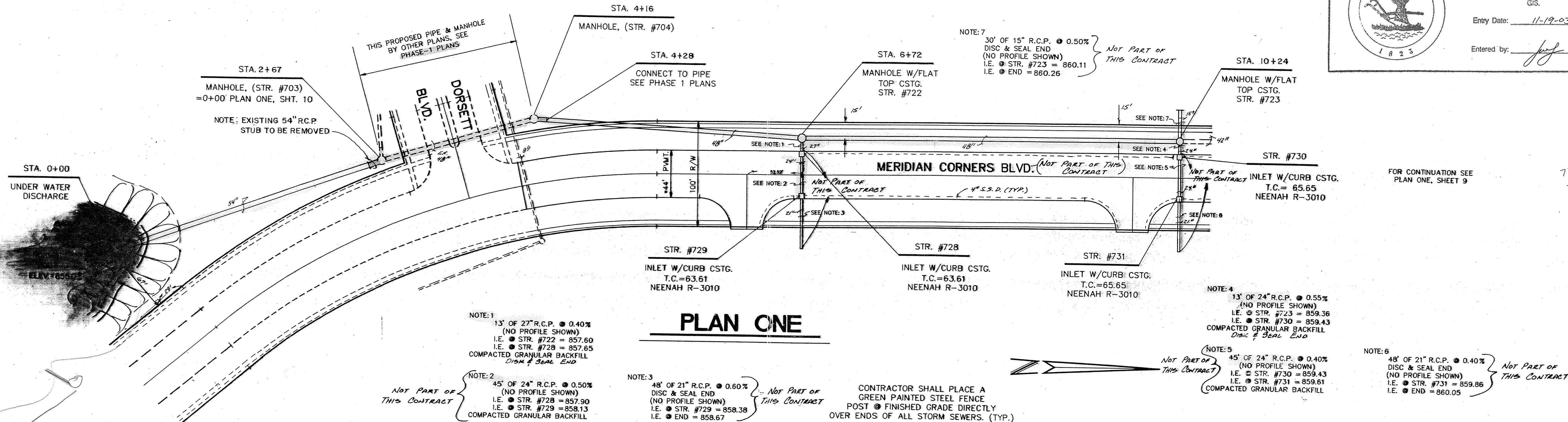
* DIMENSIONS SHOWN ARE TO FACE OF CHAIRBACK CURB.



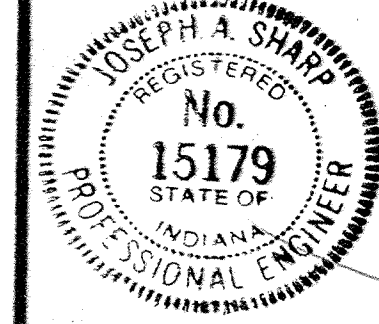
This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

Entry Date: 11-19-03

Entered by: *[Signature]*

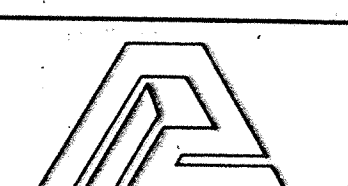


PLAN ONE



CERTIFIED BY:
Joseph A. Sharp
DATE: 2-8-09

REVISIONS	
8/3/08 REV. PIPE LENGTH PLAN & PROFILE, T.C. REV. D.T.S.	8/21/08 REVISED SIZING OF LENGTH OF UNDER WATER PIPE
11/27/08 REV. ADJUSTMENT OF MANHOLE AND LENGTH PLAN & PROFILE	PIPE ONE TO LONG CURVES
ONE THIS SHEET, ALSO SIZING D.T.S.	5/16/09 DELETED 30' REVISED STORM
11-8-09 ADDED AS-BUILT INFO.	



PAUL I. CRIFE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250

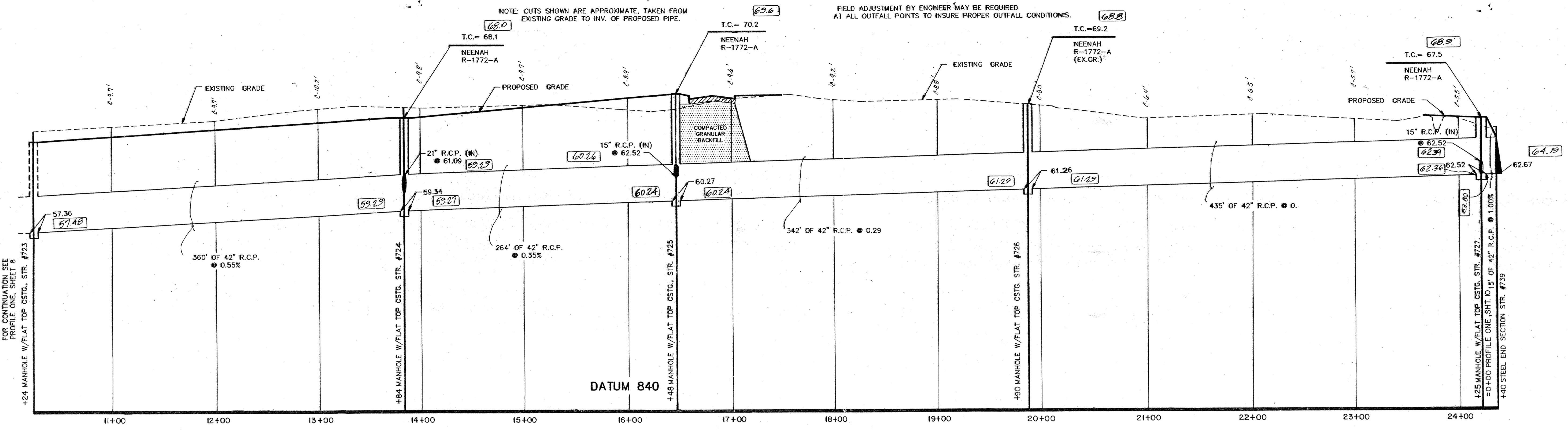
- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH. CHK.:
DRAWN BY: D.J.S.
SCALE: HORIZ. 1"=50'
VERT. 1"=5'
DATE: 8/19/08

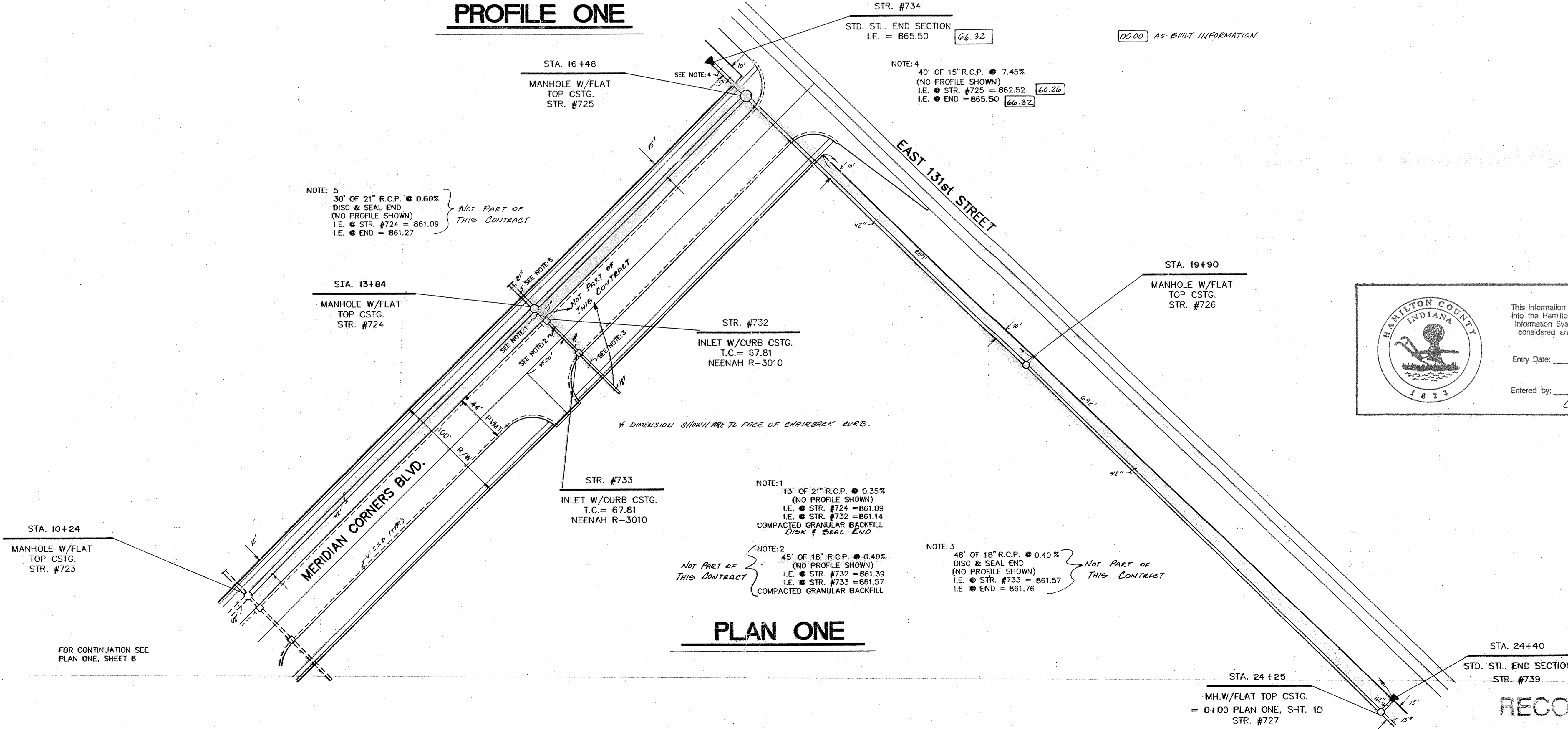
CLIENT: **DUKE ASSOCIATES**

DWG. TYPE	FILE NUMBER	SHEET
		8

STORM SEWER PLAN & PROFILE



PROFILE ONE



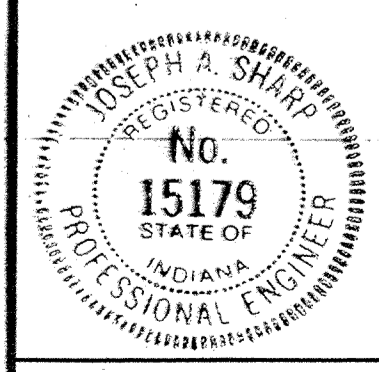
PLAN ONE

HAMILTON COUNTY INDIANA 1825

This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

Entry Date: 11-17-03

Entered by: *[Signature]*



CERTIFIED BY: *Joseph A. Shays*
DATE: 2-8-89

REVISIONS	
9/10/88 REV. PIPE LENGTH PLAN & PROFILE, MISC. REV. D.T.H.	11-8-89 ADDED AS-BUILT INFO.
1/6/88 REV. STARTING PLAN & PROFILE D.S.J.	
01/17/89 REV. STATOWING PER TO MATCH SHEET B D.S.S.	
5/16/89 DELETED BAN & REVISED STORM	

PAUL I. CRIFE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

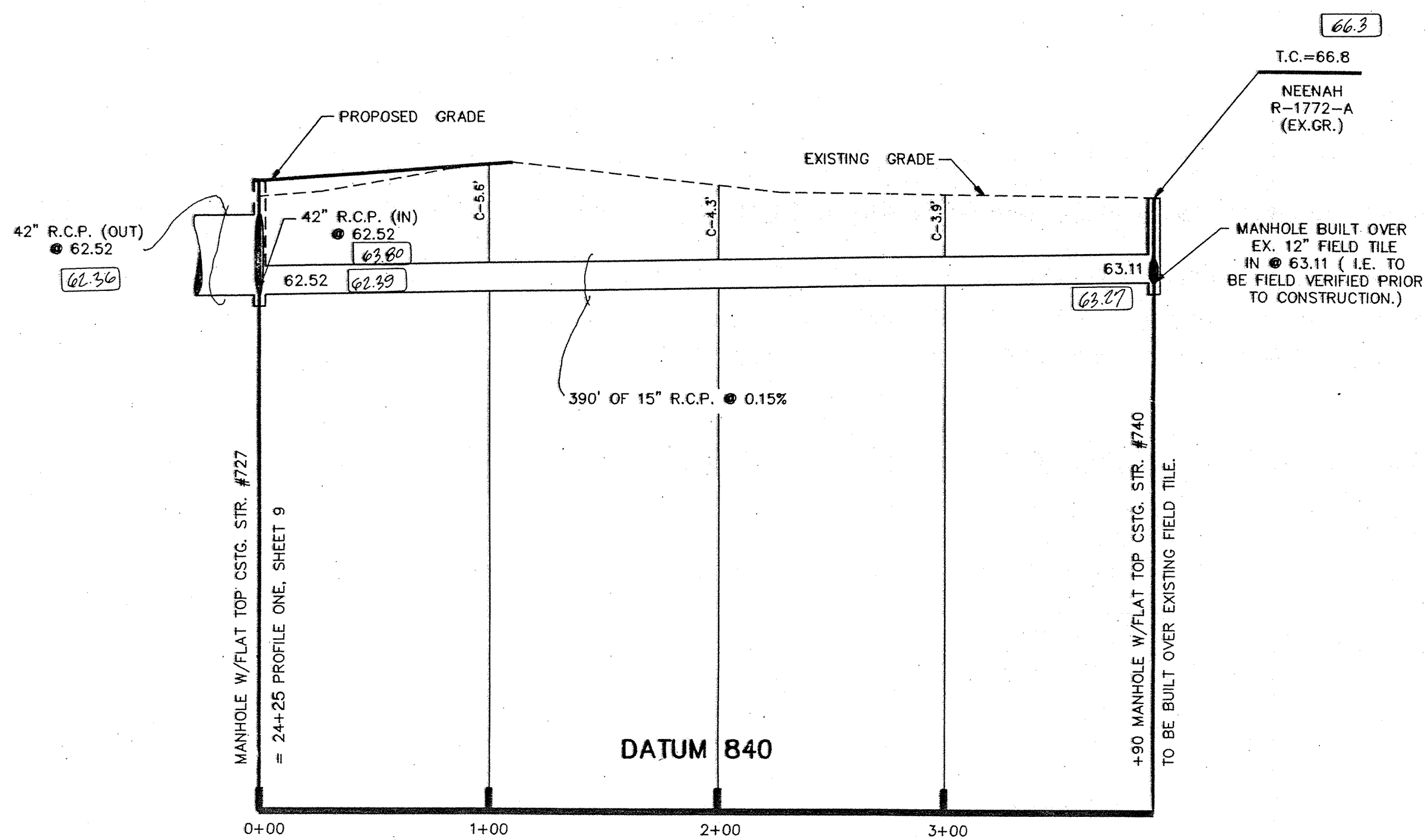
TECH. CHK.:
DRAWN BY: D.J.S.
SCALE: HORIZ: 1"=50'
VERT: 1"=5'
DATE: 8/19/88
CLIENT: DUKE ASSOCIATES

DRAWING TITLE: STORM SEWER PLAN & PROFILE

DWG. TYPE	FILE NUMBER	SHEET:
		9
JOB NUMBER		OF 14
89311-00000		

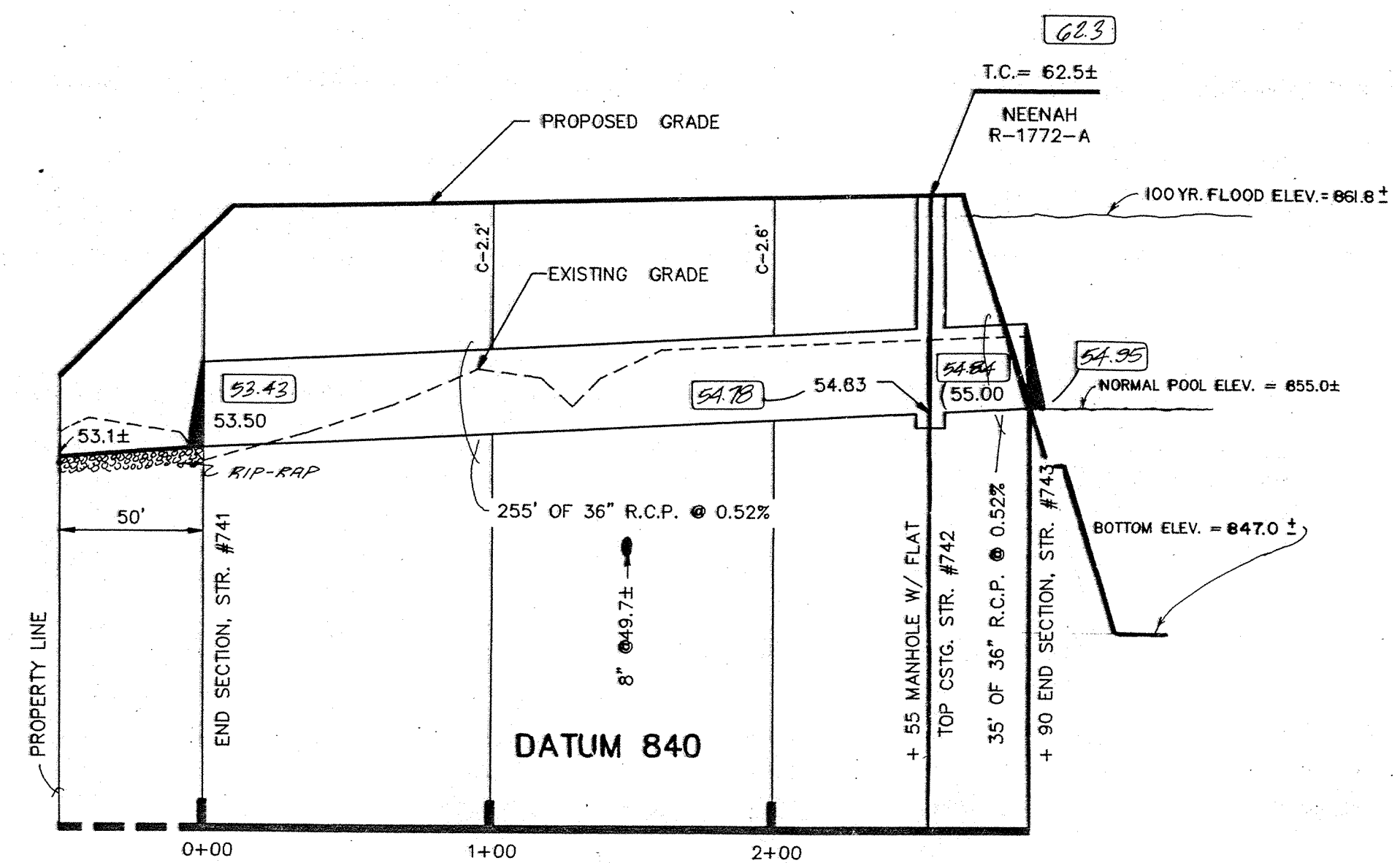
RECORD DRAWING

NOTE: CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXISTING GRADE TO INV. OF PROPOSED PIPE. FIELD ADJUSTMENT BY ENGINEER MAY BE REQUIRED AT ALL OUTFALL POINTS TO INSURE PROPER OUTFALL CONDITIONS.



PROFILE ONE

00.00 AS-BUILT INFORMATION



PROFILE TWO

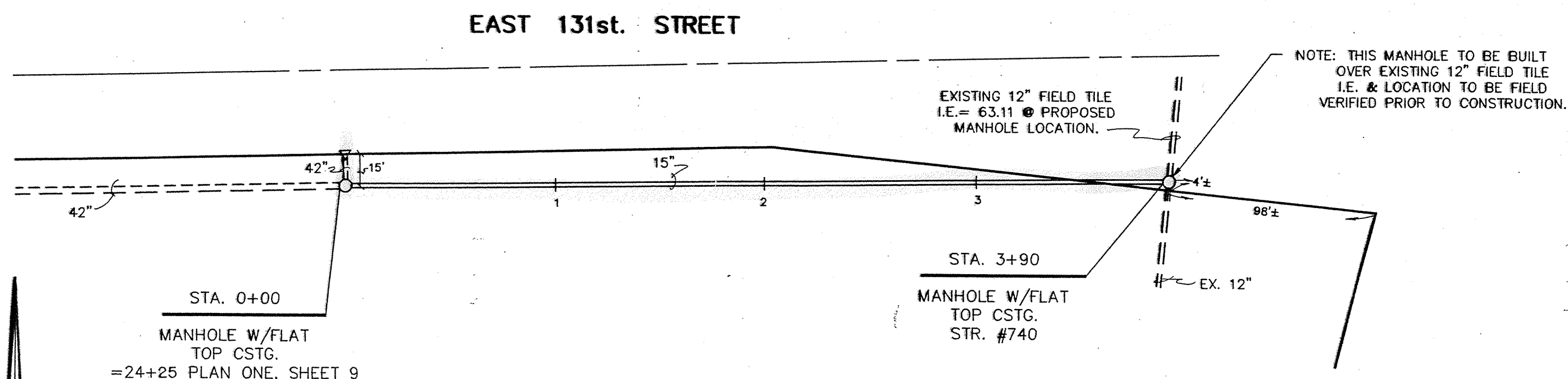
NOTE: CONTRACTOR SHALL VERIFY EXISTING INVERT ELEVATIONS PRIOR TO CONSTRUCTION OF SANITARY SEWERS.

HAMILTON COUNTY INDIANA 1823

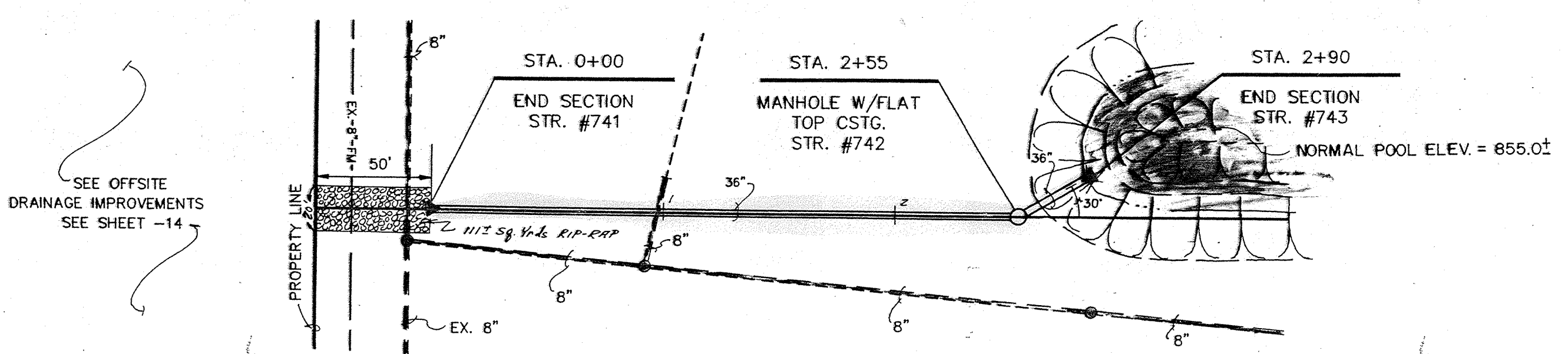
This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

Entry Date: 11-19-03

Entered by: [Signature]

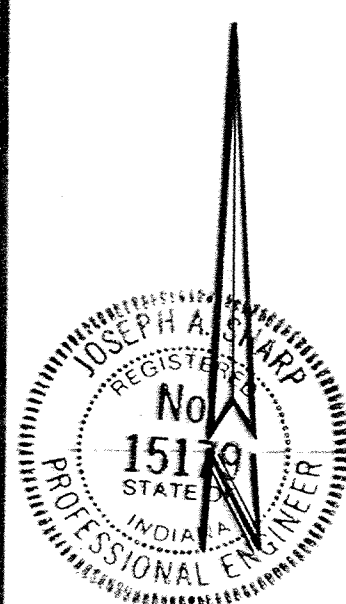


PLAN ONE



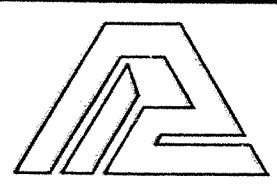
PLAN TWO

RECORD DRAWING



CERTIFIED BY: Joseph A. Sharp
DATE: 2-8-89

REVISIONS	
02/11/89	REVISED LINE SECTION, PROFILE & PLAN TWO
11-8-89	ADDED AS-BUILT INFO.



PAUL I. CRIFE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 642-6777

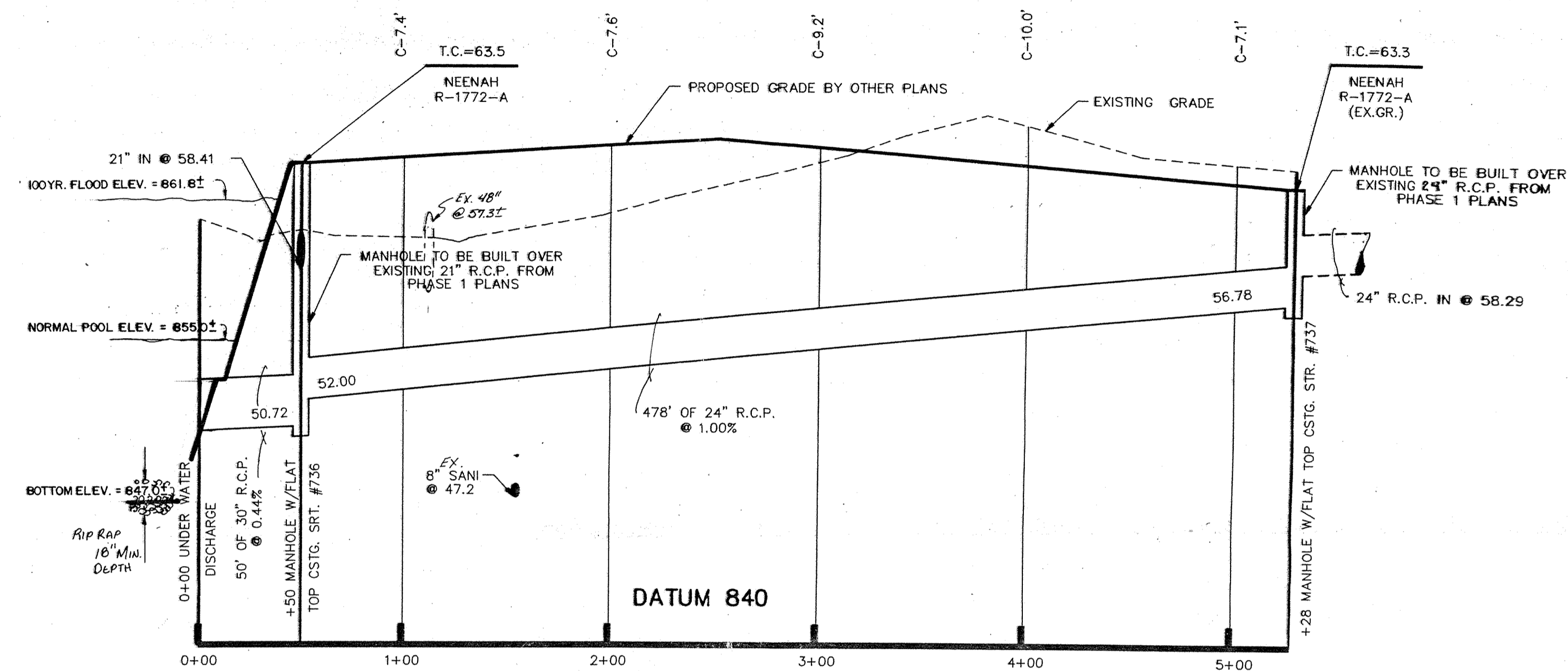
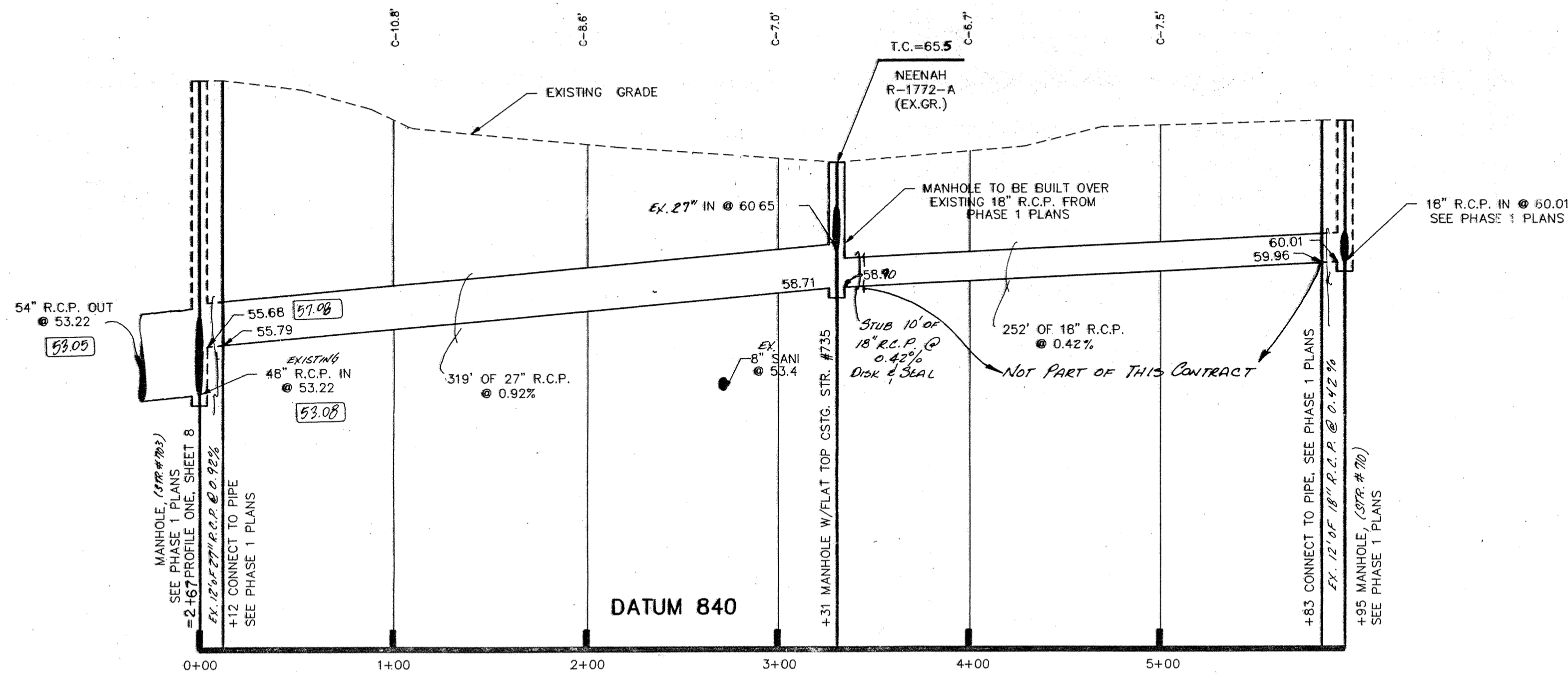
- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH. CHK.:
DRAWN BY: D.J.S.
SCALE: HORIZ: 1"=50'
VERT: 1"=5'
DATE: 08/19/88
CLIENT: DUKE ASSOCIATES

DRFTNG. CHK.:
DRAWING TITLE: STORM SEWER PLAN & PROFILE

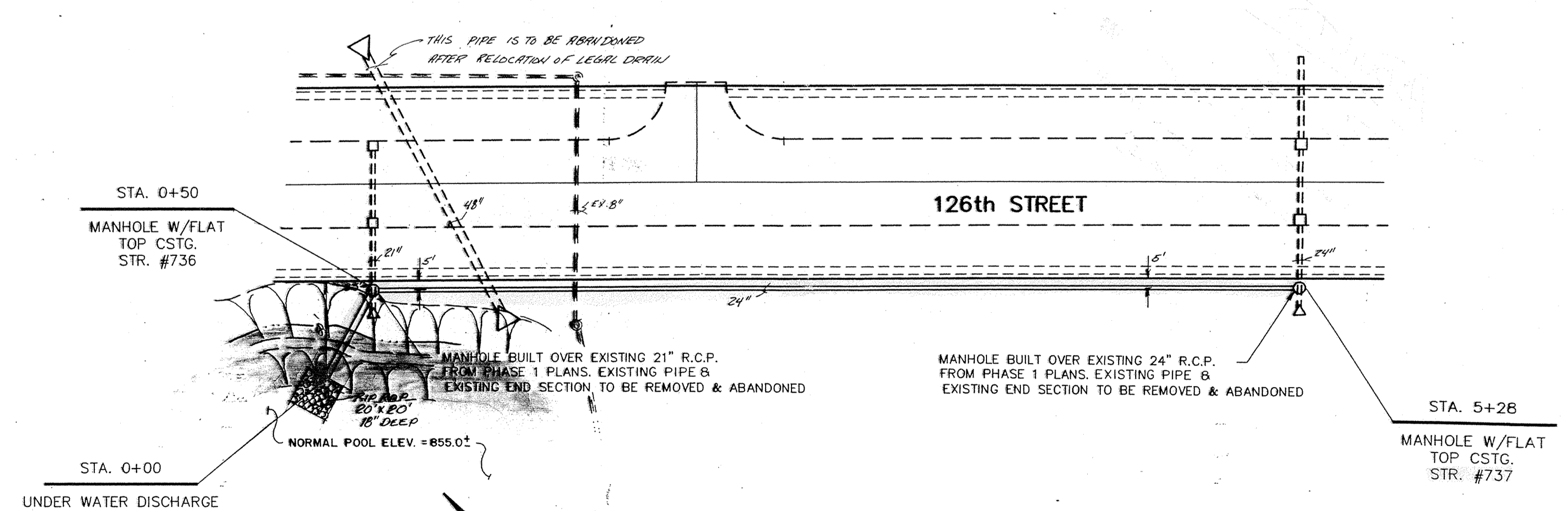
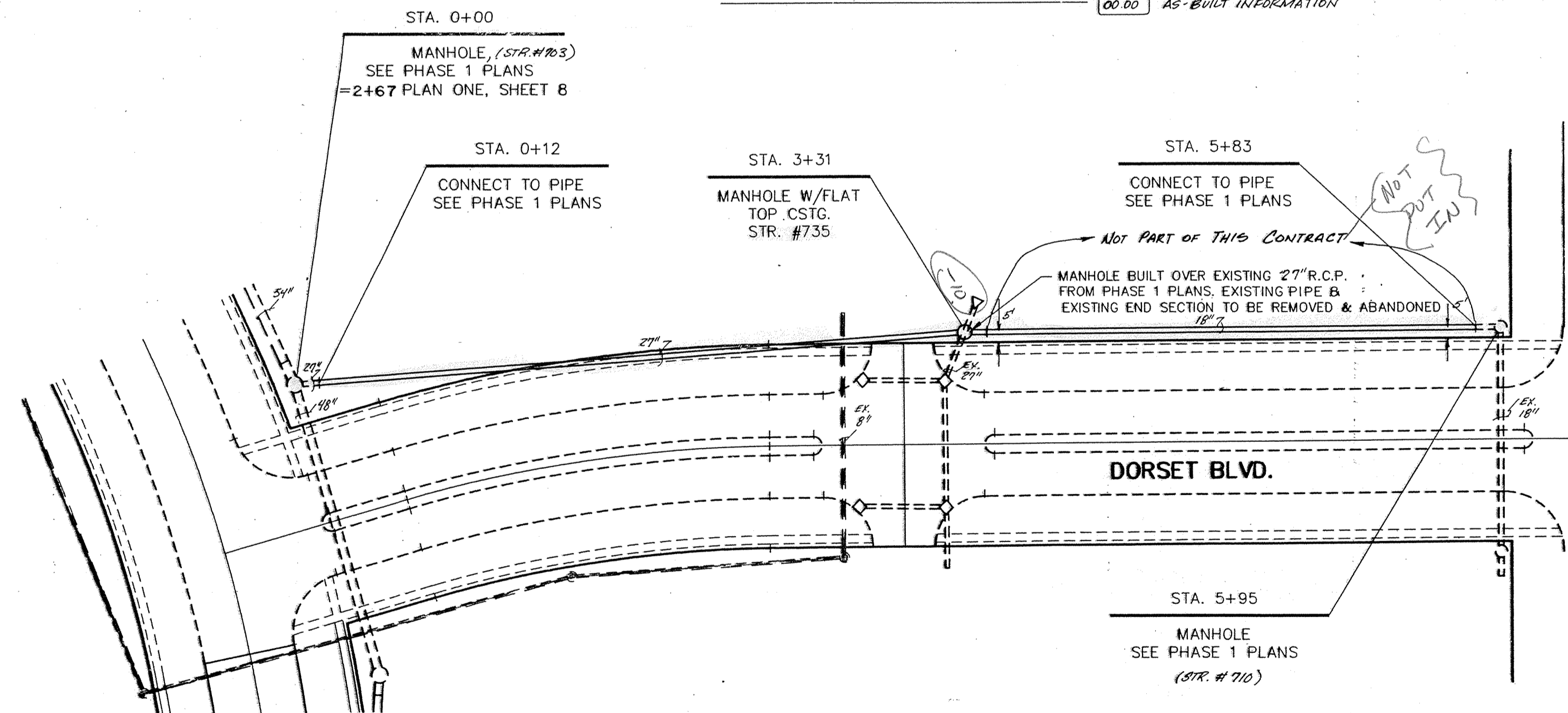
DWG. TYPE	FILE NUMBER	SHEET
		10
JOB NUMBER		of 14
893111-00000		

NOTE: CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXISTING GRADE TO INV. OF PROPOSED PIPE. FIELD ADJUSTMENT BY ENGINEER MAY BE REQUIRED AT ALL OUTFALL POINTS TO INSURE PROPER OUTFALL CONDITIONS.



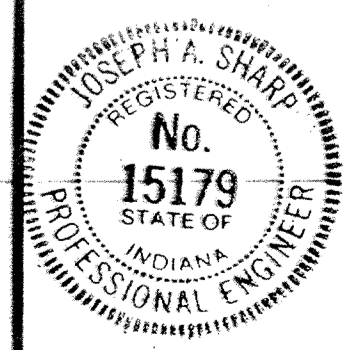
PROFILE ONE

PROFILE TWO



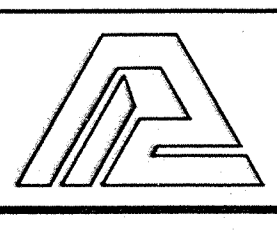
PLAN ONE

PLAN TWO



CERTIFIED BY:
Joseph A. Shays
2-8-89 DATE

REVISIONS	DATE	BY
7/1/88 REV. MISC. D.V.S.		
02/21/89 REVISED LEGAL DRAINAGE PROFILE TWO D.V.S.		
5/14/89 REVISED PLAN ONE		
11-8-89 ADDED AS-BUILT INFO.		EPH



PAUL I. CRIFE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH. CHK:
DRFTNG. CHK:

DRAWN BY:
D.J.S.

SCALE:
HORZ: 1"=50'
VERT: 1"=5'

DATE:
4/1/88

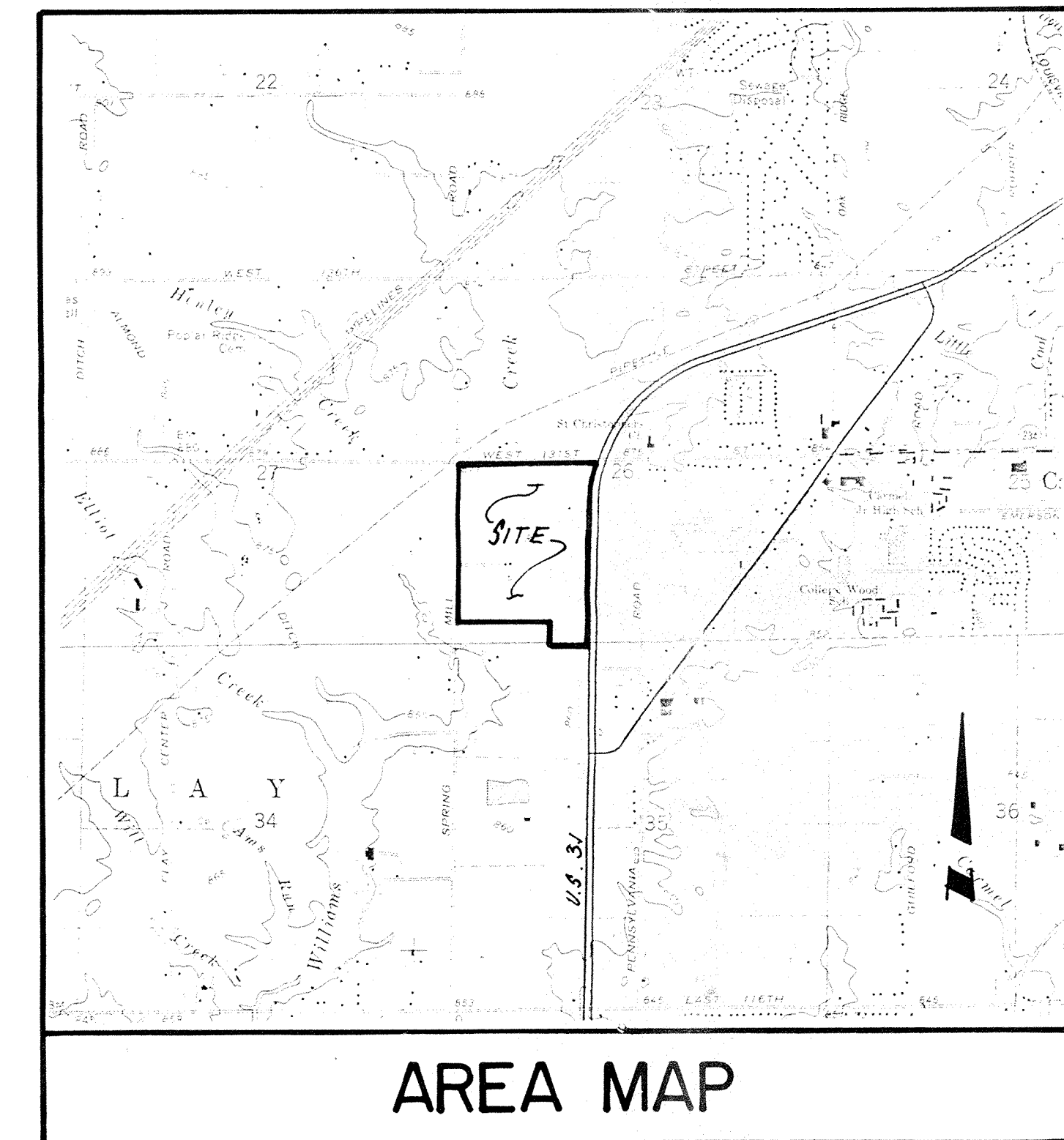
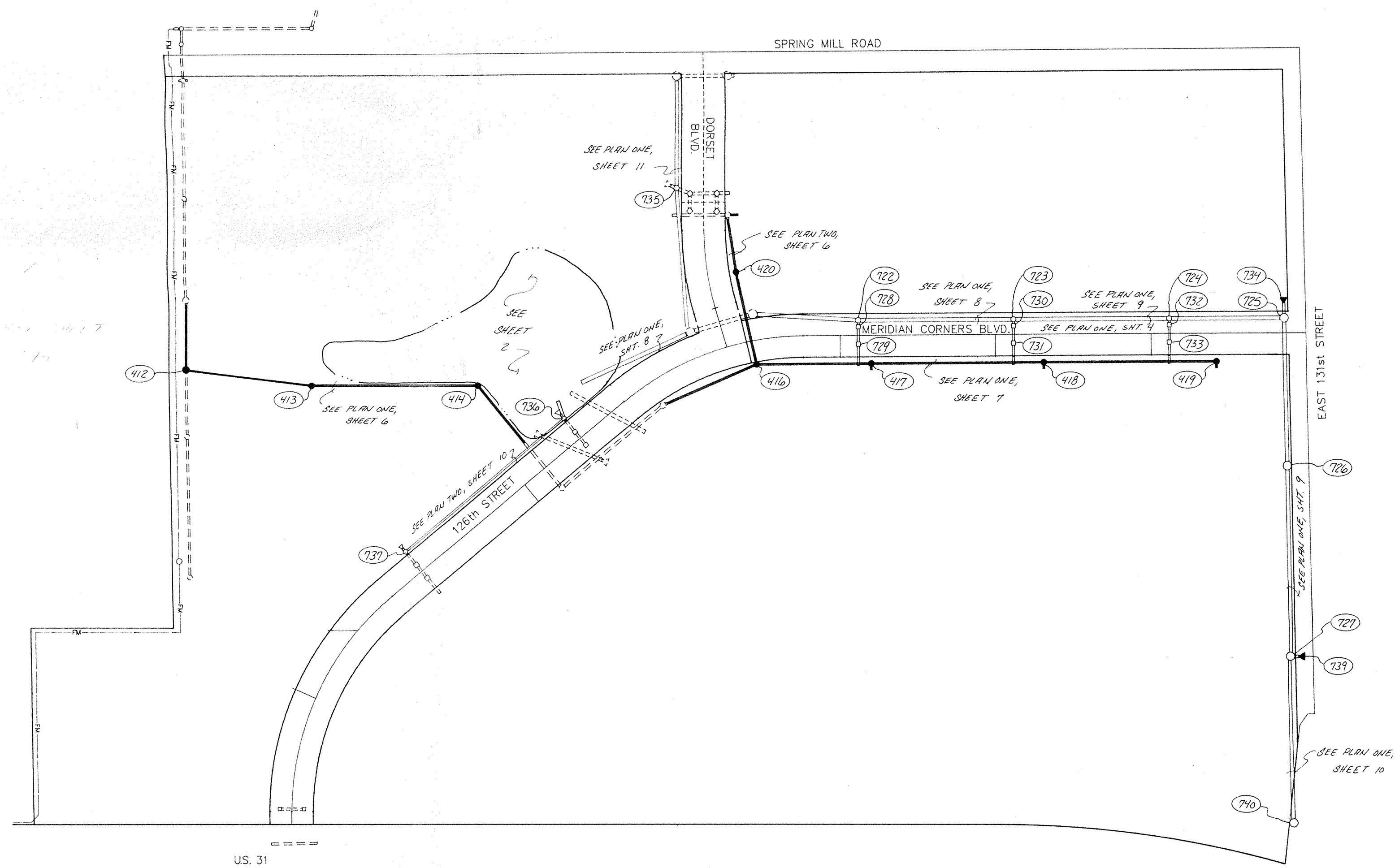
CLIENT:
DUKE ASSOCIATES

DRAWING TITLE:
STORM SEWER PLAN & PROFILE

DWG. TYPE	FILE NUMBER	SHEET:
		11
JOB NUMBER		OF 14
8 9 3 1 1 1 - 0 0 0 0 0		

CONSTRUCTION PLANS FOR MERIDIAN CORNERS—PHASE TWO

Stamp: 5/11/88



INDEX	
SHT	DESCRIPTION
1.	COVER SHEET
2.	SITE DEVELOPMENT PLAN - LAKE
3.	SITE DEVELOPMENT PLAN - NORTH END
4.	STREET PLAN & PROFILE
5.	STREET DETAILS
6.	SANITARY SEWER PLAN & PROFILE
7.	SANITARY SEWER PLAN & PROFILE
8.	STORM SEWER PLAN & PROFILE
9.	STORM SEWER PLAN & PROFILE
10.	STORM SEWER PLAN & PROFILE
11.	STORM SEWER PLAN & PROFILE
12.	DETAILS
13.	SPECIFICATIONS
14.	OFFSITE DRAINAGE IMPROVEMENTS

BENCHMARKS

REVISIONS

SITE WORK GENERAL NOTES AND SPECIFICATIONS
NOTICES AND PERMITS

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, OR VERIFYING, THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.

B. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING CONSTRUCTION.

C. IT SHALL BE THE CONTRACTORS RESPONSIBILITY FOR NOTIFICATION AND COORDINATION OF ALL CONSTRUCTION WITH RESPECTIVE UTILITY COMPANIES.

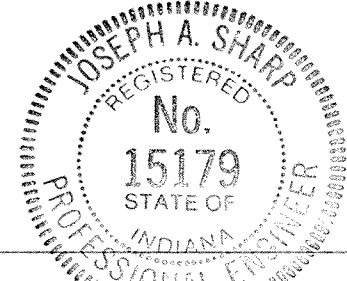
D. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THE PROJECT; FAILURE TO DO SO MAY RESULT IN REMOVAL AND REPLACEMENT OF THE DEFECTIVE WORK. IT IS RECOMMENDED THAT THE DEVELOPER HAVE A QUALIFIED INSPECTOR ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.

E. IT IS ESSENTIAL THAT THE WORK TO BE DONE IN CONJUNCTION WITH THIS PROJECT SHALL BE INSTALLED ACCORDING TO THESE SPECIFICATIONS. THE ENGINEER WILL BE REQUIRED TO CERTIFY TO CERTAIN PORTIONS OF THIS PROJECT UPON COMPLETION. THEREFORE, IT IS NECESSARY TO OBTAIN APPROVAL AND ACCEPTANCE BY THE CITY THAT CONSTRUCTION WAS DONE IN COMPLIANCE WITH THESE PLANS AND SPECIFICATIONS.

This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.

Entry Date: 11-19-03

Entered by: [Signature]



CERTIFIED BY:
Joseph A. Sharp
9-2-88 DATE

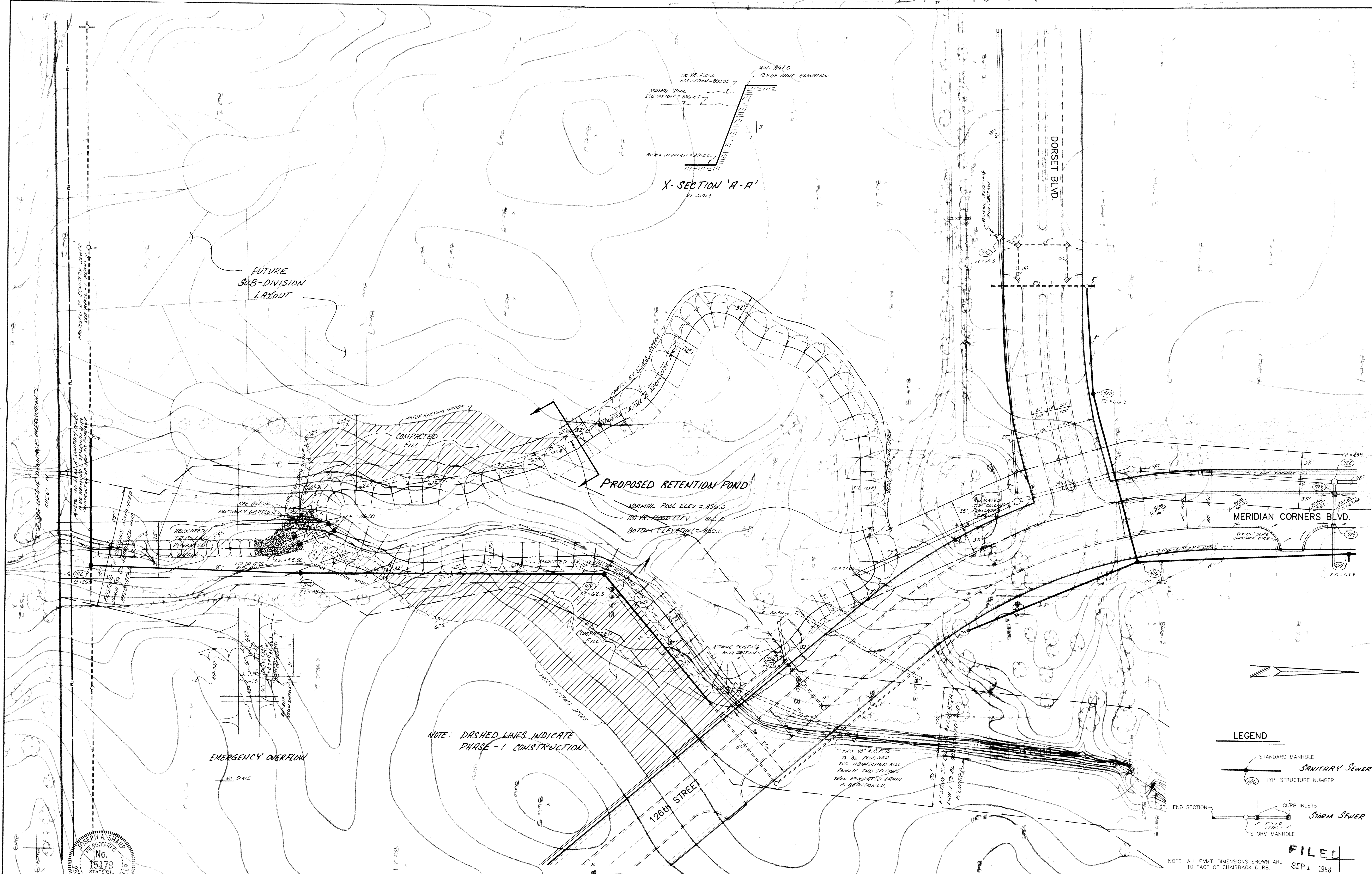
REVISIONS

PAUL I. CRIFE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

• CIVIL ENGINEERING
• LAND SURVEYING
• ARCHITECTURE
• LAND PLANNING

TECH CHK: J.S.
DRAWN BY: D.J.S.
SCALE: As Noted
DATE: 8/19/88
CLIENT: MERIDIAN CORNERS
DRAWING TITLE: COVER SHEET

DWG. TYPE	FILE NUMBER	SHEET:
		1
		of 14



X-SECTION 'A-A'
NO SCALE

PROPOSED RETENTION POND

NORMAL POOL ELEV. = 856.0
100 YR. FLOOD ELEV. = 866.0
BOTTOM ELEVATION = 850.0

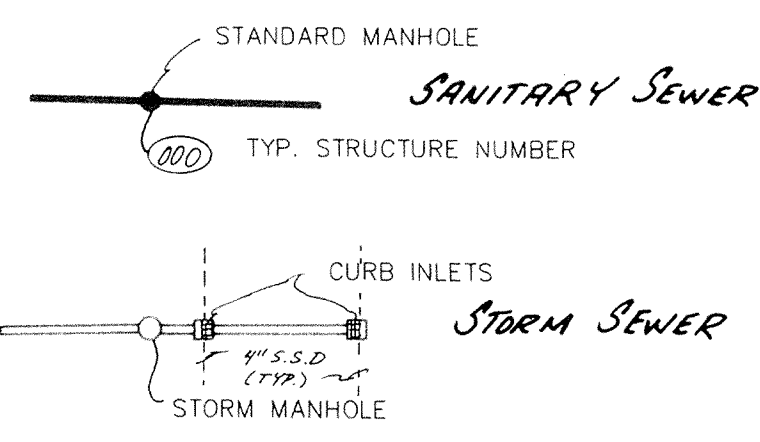
FUTURE
SUB-DIVISION
LAYOUT

EMERGENCY OVERFLOW

NOTE: DASHED LINES INDICATE
PHASE - 1 CONSTRUCTION.

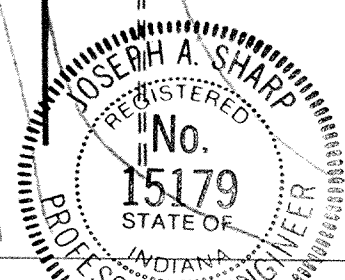
THIS 18" R.O.P. IS
TO BE PLUGGED
AND ABANDONED ALSO
REMOVE END SECTIONS
WHEN RELOCATED DRAIN
IS ABANDONED.

LEGEND

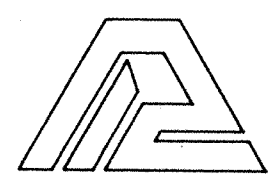


FILED
SEP 1 1988
NOTE: ALL PVMT. DIMENSIONS SHOWN ARE TO FACE OF CHAIRBACK CURB.

CERTIFIED BY:
Joseph A. Sharp
9-2-88 DATE



REVISIONS
7/11/88 REV. DRAW. EXMT., MISL. REV. D.J.S.



PAUL I. CRIFE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

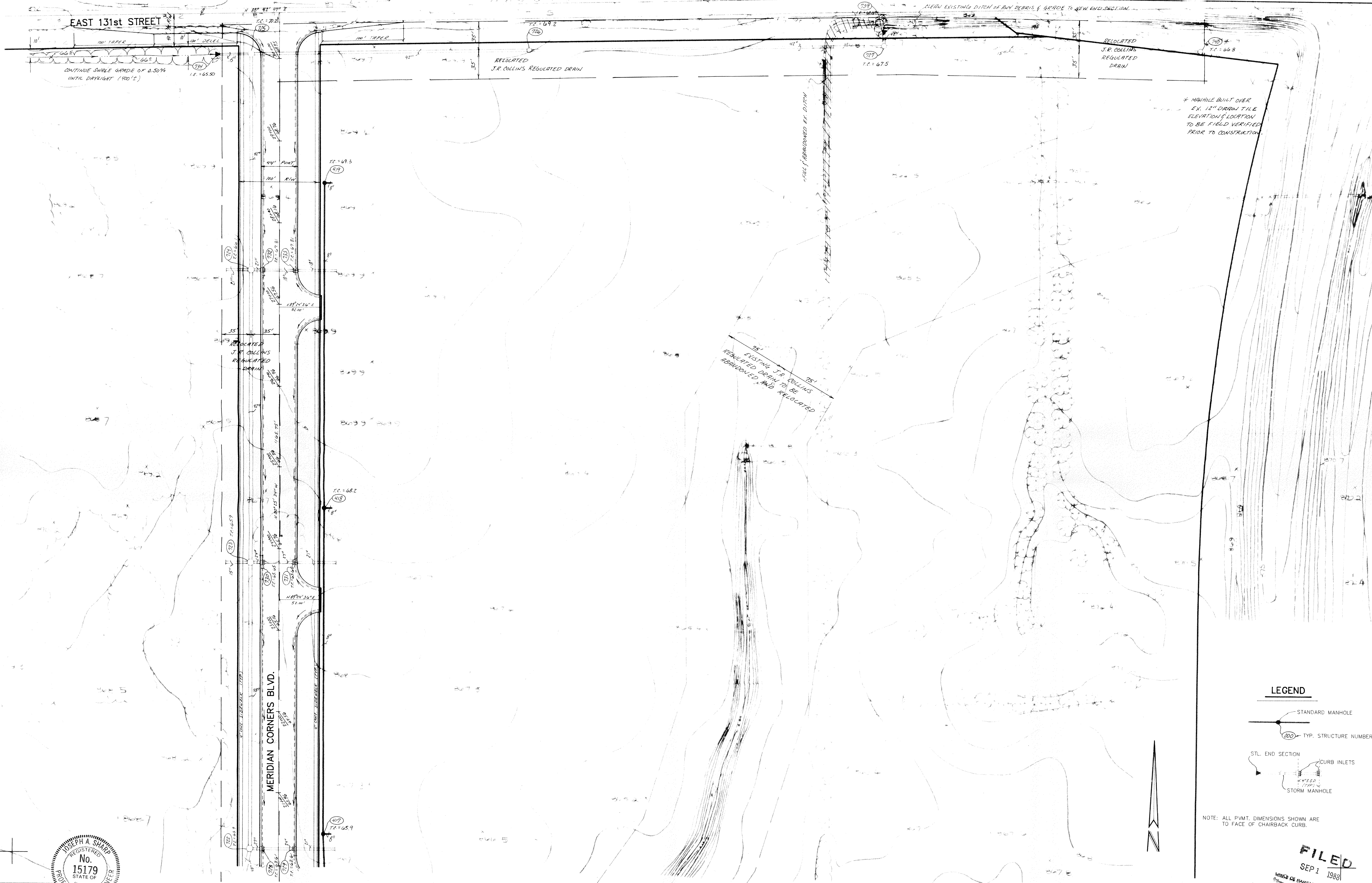
TECH CHK: J.S.
DRFTNG. CHK:

DRAWN BY: D.J.S.
DRAWING TITLE:

SCALE: 1"=50'
DATE: 8/19/88

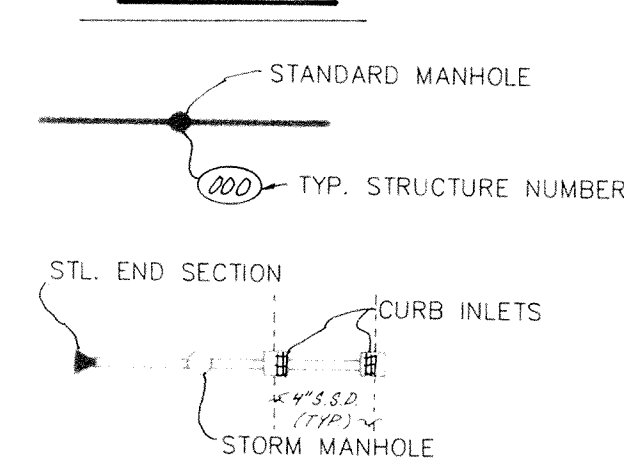
CLIENT: MERIDIAN CORNERS PHASE - 2
SITE DEVELOPMENT PLAN - LAKE

DWG. TYPE	FILE NUMBER	SHEET:
		2
JOB NUMBER		OF 13
79205-90000		

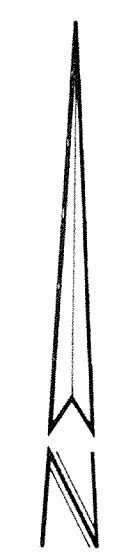


* MANHOLE BUILT OVER EX. 12" DRAIN TILE ELEVATION LOCATION TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.

LEGEND

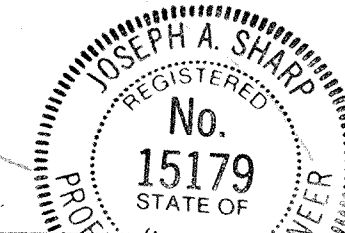


NOTE: ALL PVMT. DIMENSIONS SHOWN ARE TO FACE OF CHAIRBACK CURB.

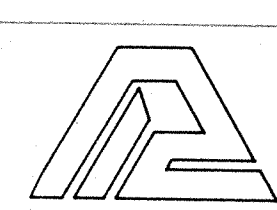


FILED
SEP 1 1988
HAMILTON COUNTY SURVEYOR

CERTIFIED BY:
Joseph A. Sharp
9-2-88 DATE



REVISIONS
9/21/88 MISC. REV. D.F.S.



PAUL I. CRIFE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

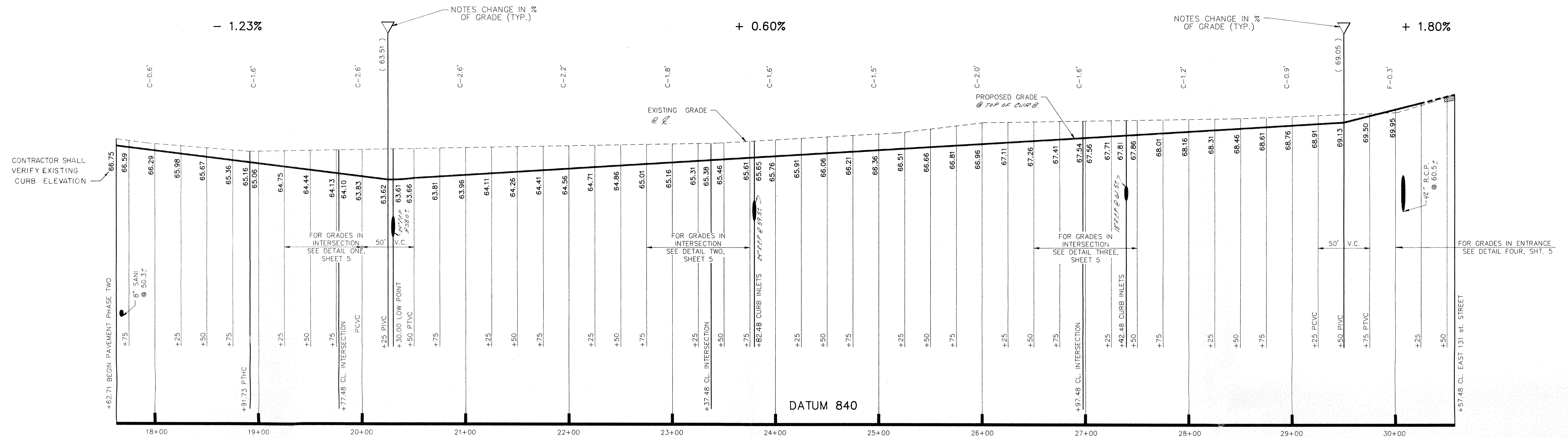
- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH CHK: J.S.
DRAWN BY: D.J.S.
SCALE: 1"=50'
DATE: 8/19/88

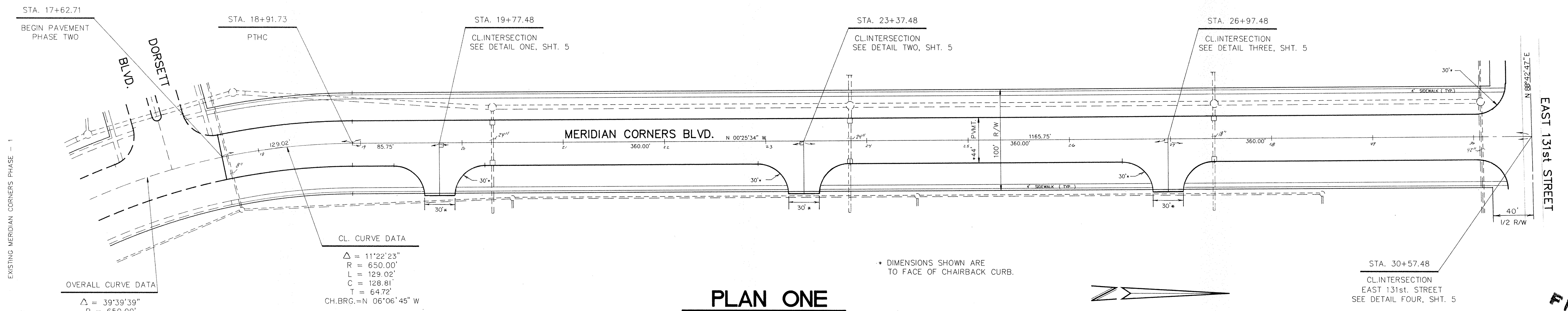
CLIENT: MERIDIAN CORNERS PHASE - 2
DRAWING TITLE: SITE DEVELOPMENT PLAN - NORTH END

DWG. TYPE	FILE NUMBER	SHEET
		3

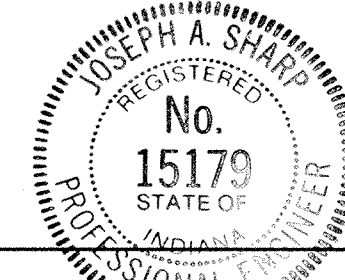
NOTE: CUTS & FILLS SHOWN ARE APPROXIMATE, TAKEN FROM EXISTING GRADE @ CL. TO PROPOSED GRADE @ TOP OF CURB.



PROFILE ONE



PLAN ONE



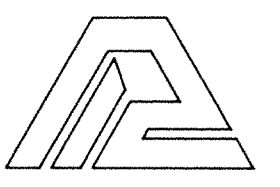
OVERALL CURVE DATA
 $\Delta = 39^\circ 39' 39''$
 $R = 650.00'$
 $L = 449.94'$
 $C = 441.01'$
 $T = 234.40'$
 CH. BRG. = N $20^\circ 15' 24''$ W

CL. CURVE DATA
 $\Delta = 111^\circ 22' 23''$
 $R = 650.00'$
 $L = 129.02'$
 $C = 128.81'$
 $T = 64.72'$
 CH. BRG. = N $06^\circ 06' 45''$ W

* DIMENSIONS SHOWN ARE TO FACE OF CHAIRBACK CURB.

CERTIFIED BY:
Joseph A. Shamp
 DATE: 9.2.88

REVISIONS	
NO. 1/88	MISC. REV. D.J.S.



PAUL I. CRIFE, INC.
 7172 GRAHAM ROAD
 INDIANAPOLIS, INDIANA 46250
 (317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH. CHK.: J.S.
 DRFTNG. CHK.:

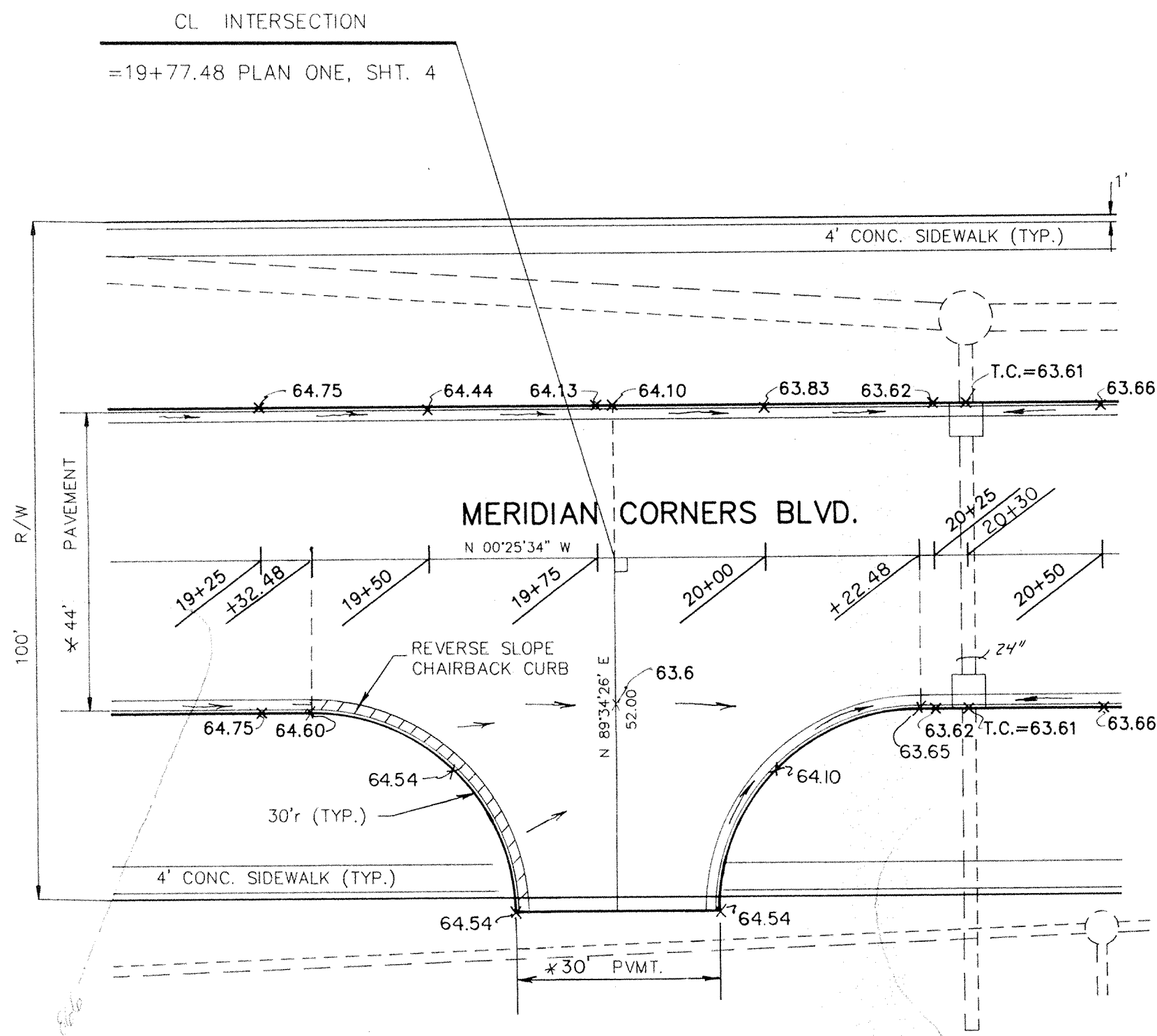
DRAWN BY: D.J.S.
 DRAWING TITLE:

SCALE: HORIZ: 1"=50'
 VERT: 1"=5'
 DATE: 8/19/88

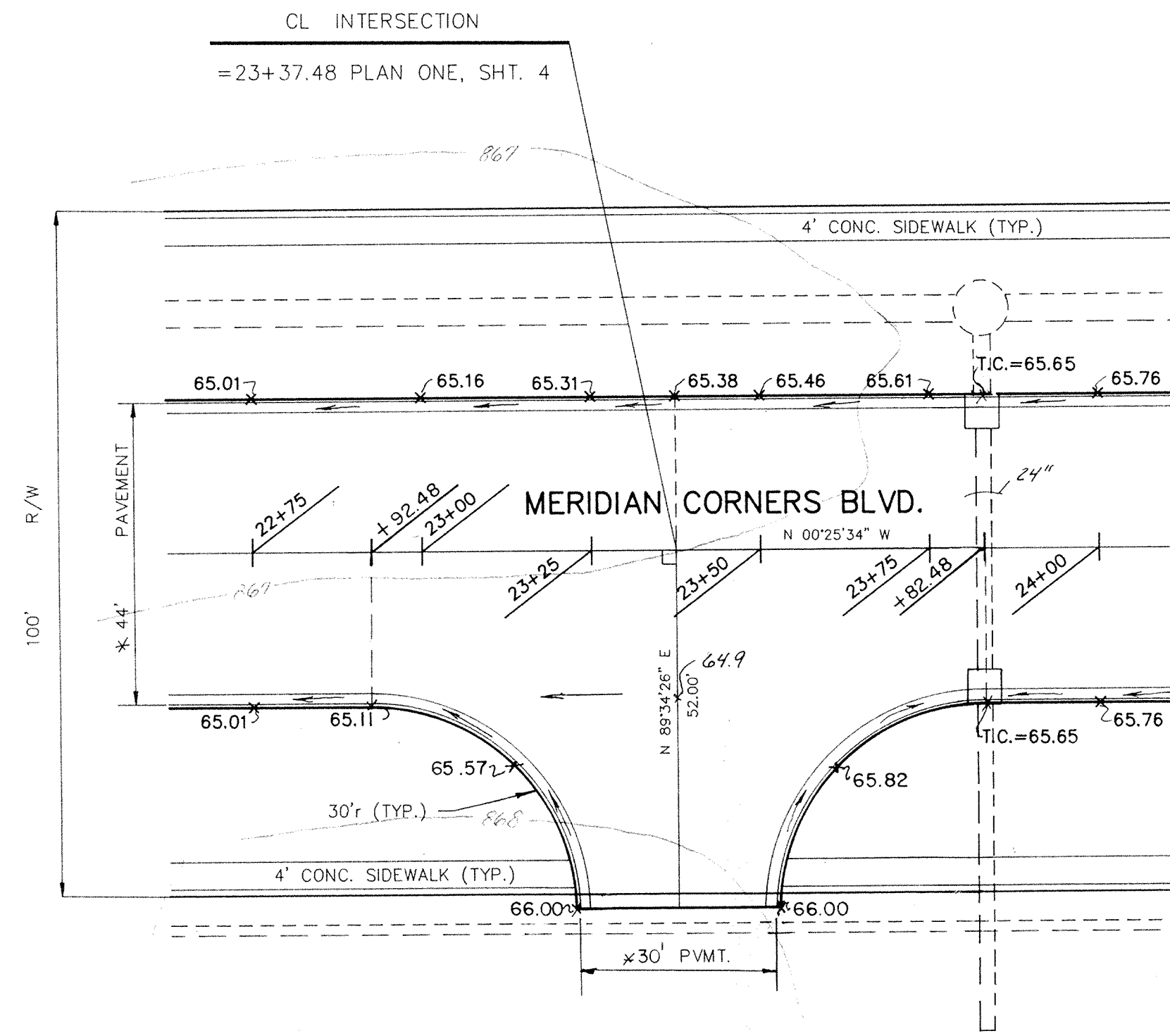
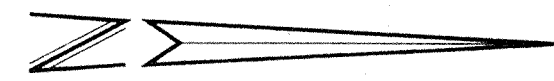
CLIENT: MERIDIAN CORNERS - PHASE 2
 DWG. TYPE: STREET PLAN & PROFILE

DWG. TYPE	FILE NUMBER	SHEET:
	79205-90000	4
JOB NUMBER		OF 14

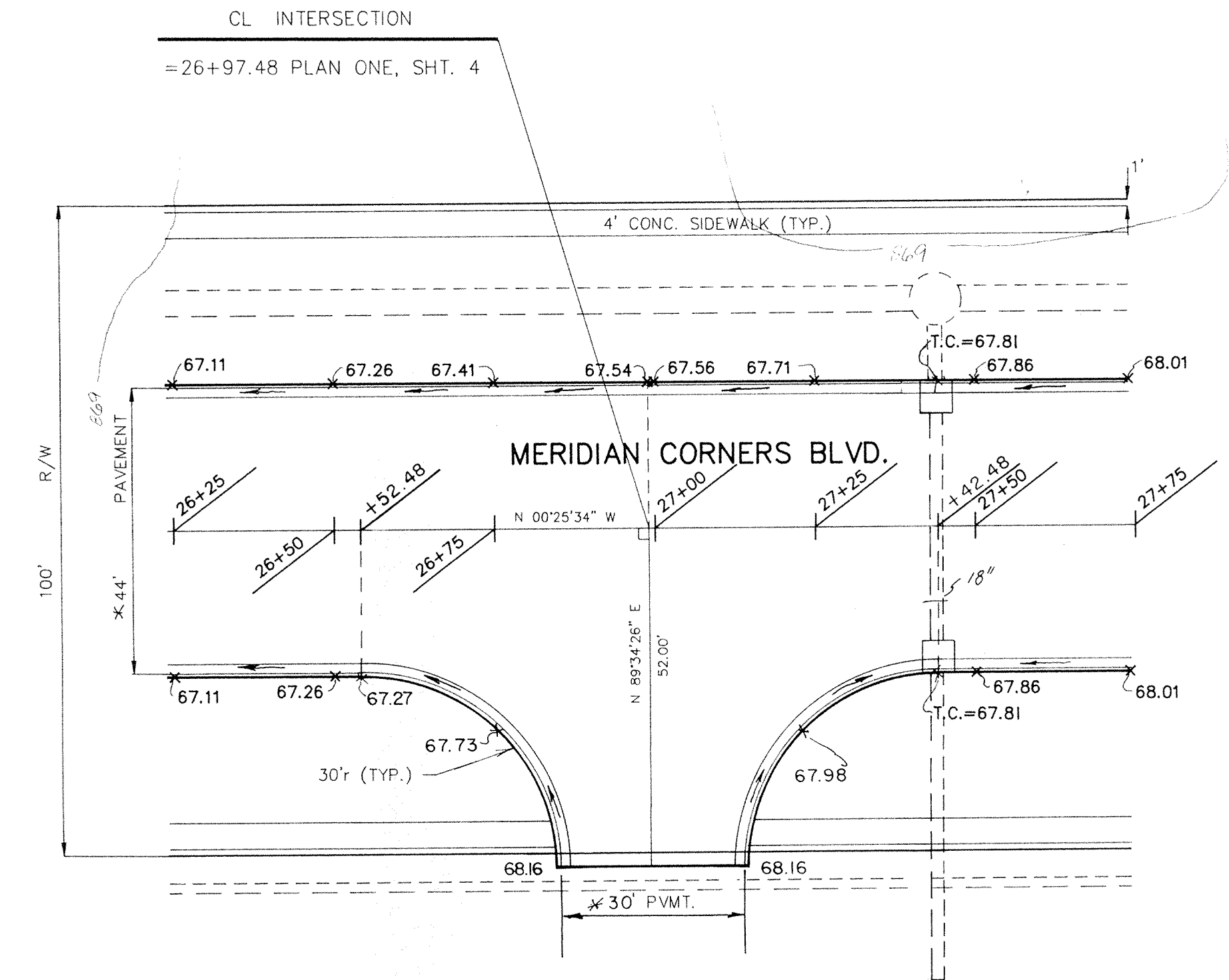
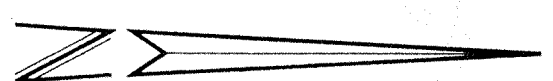
FILED
 SEP 1 1988
 OFFICE OF HAMILTON COUNTY SURVEYOR



DETAIL ONE



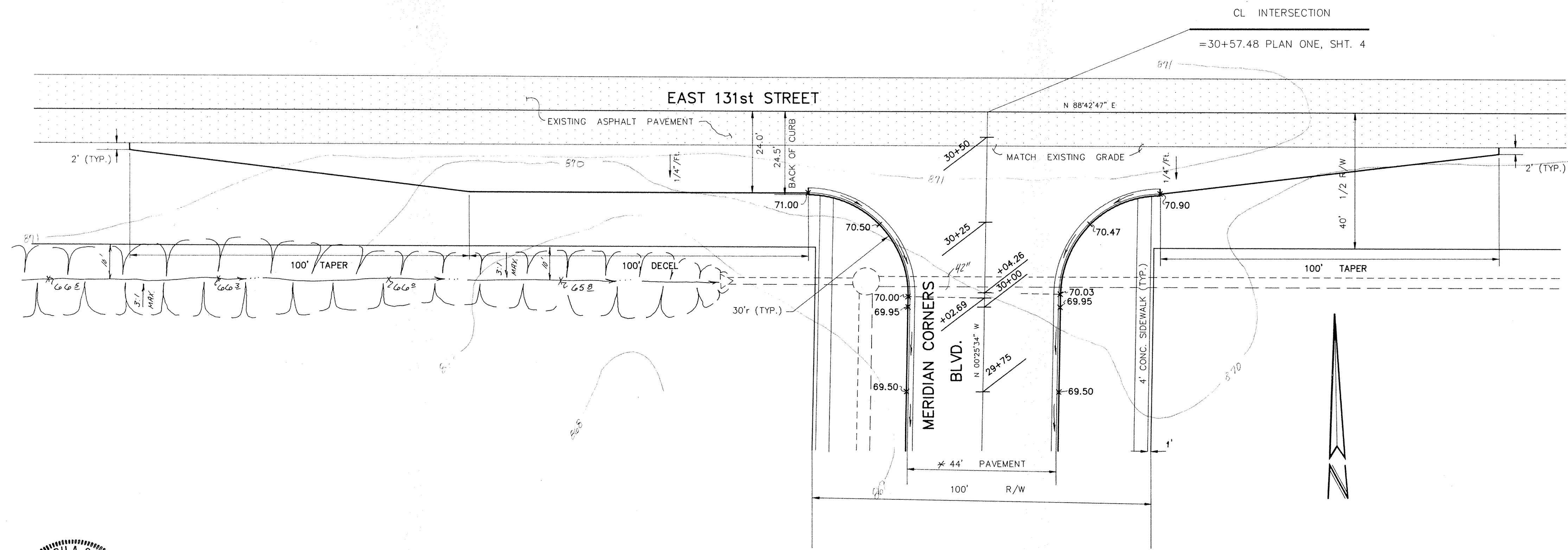
DETAIL TWO



DETAIL THREE



* UNLESS NOTED OTHERWISE DIMENSIONS SHOWN ARE TO FACE OF CHAIRBACK CURB

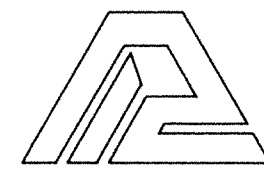


DETAIL FOUR



CERTIFIED BY: *Joseph A. Sharp*
DATE: 9.2.88

REVISIONS
8/31/88 REV DETAILS 1-3, MISC. REV. D.J.S.



PAUL I. CRIFE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH CHK: B.M.W.
DRAWING CHK: DRFTNG. CHK:

DRAWN BY: D.J.S.
DRAWING TITLE: STREET DETAILS

SCALE: 1" = 20'

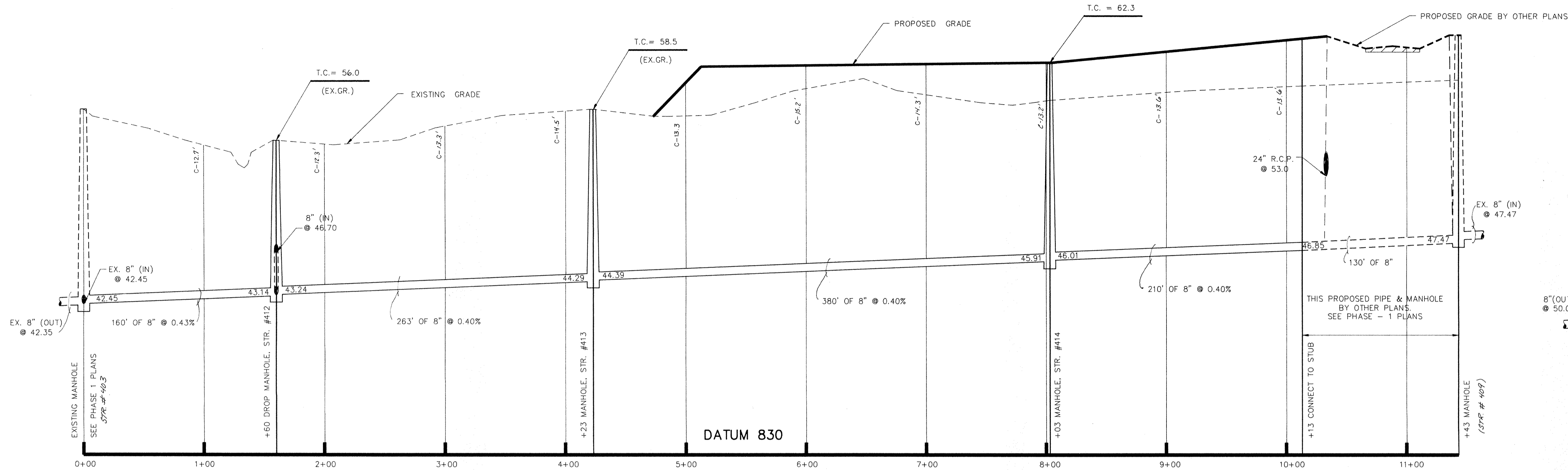
DATE: 8/19/88

CLIENT: MERIDIAN CORNERS - PHASE 2

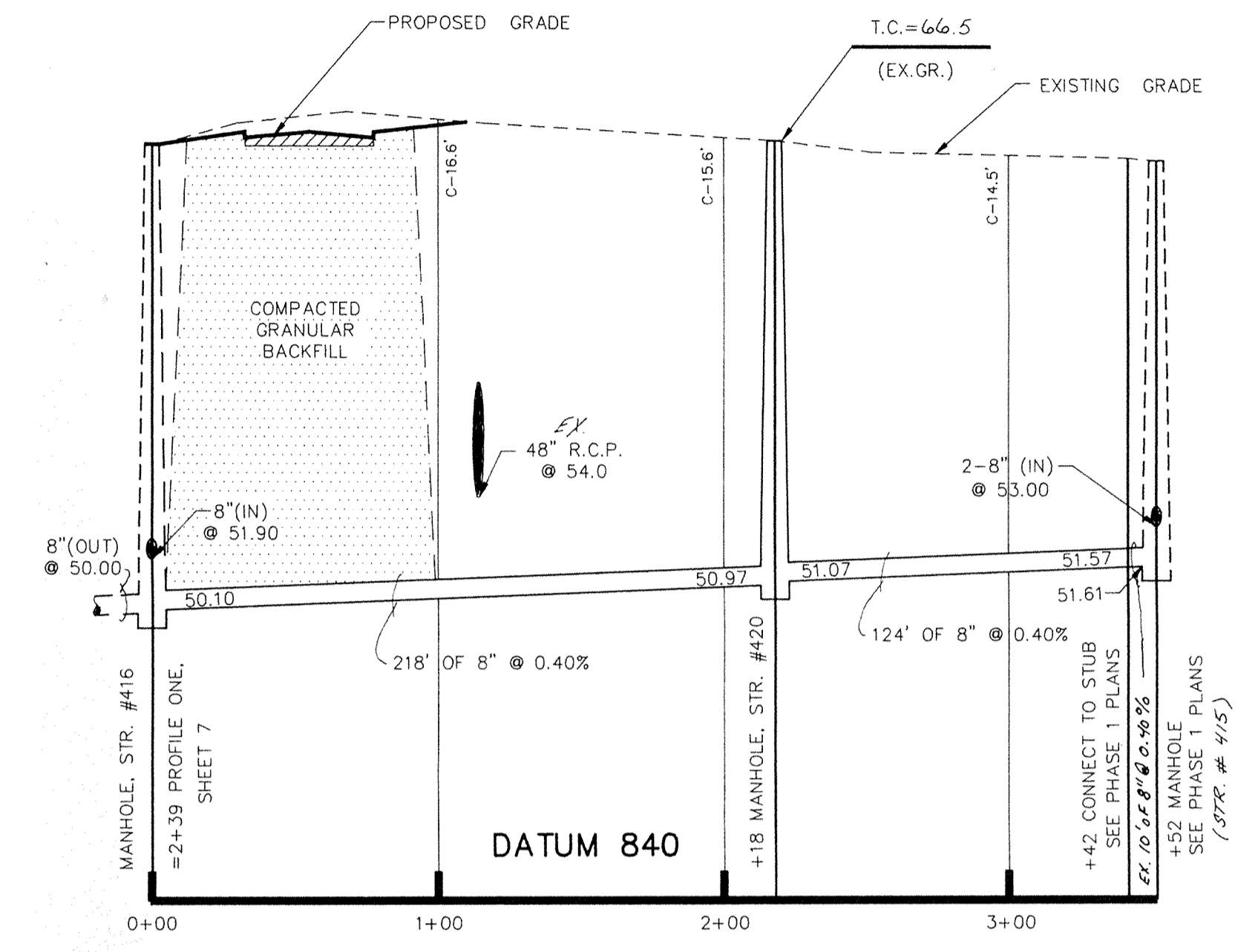
DWG. TYPE	FILE NUMBER	SHEET
	79205-90000	5 OF 14

FILED
SEP 1 1988
HAMILTON COUNTY SURVEYOR

NOTE: 1. CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXISTING GRADE TO INVERT OF PROPOSED PIPE.
 2. ALL SANITARY SEWER CASTINGS SHALL BE: NEENAH R-1642, AND SHALL SAY "SANITARY SEWER ON THE LID."

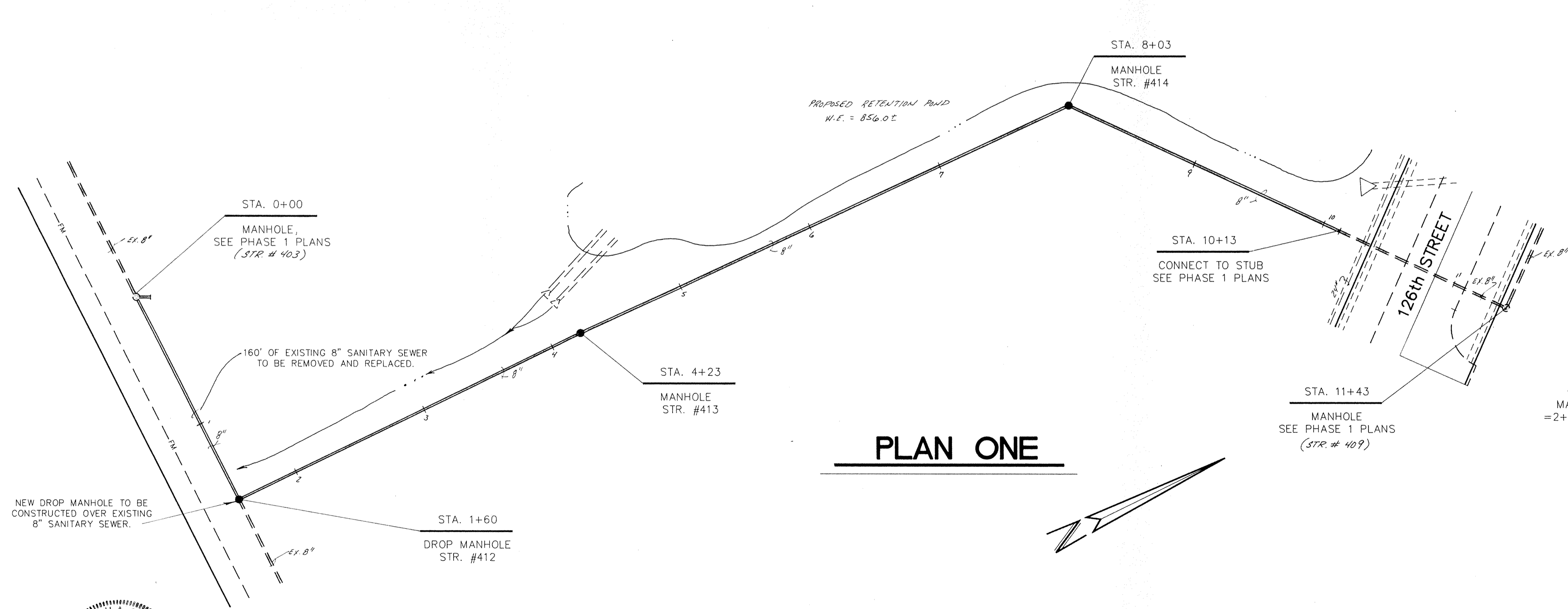


PROFILE ONE

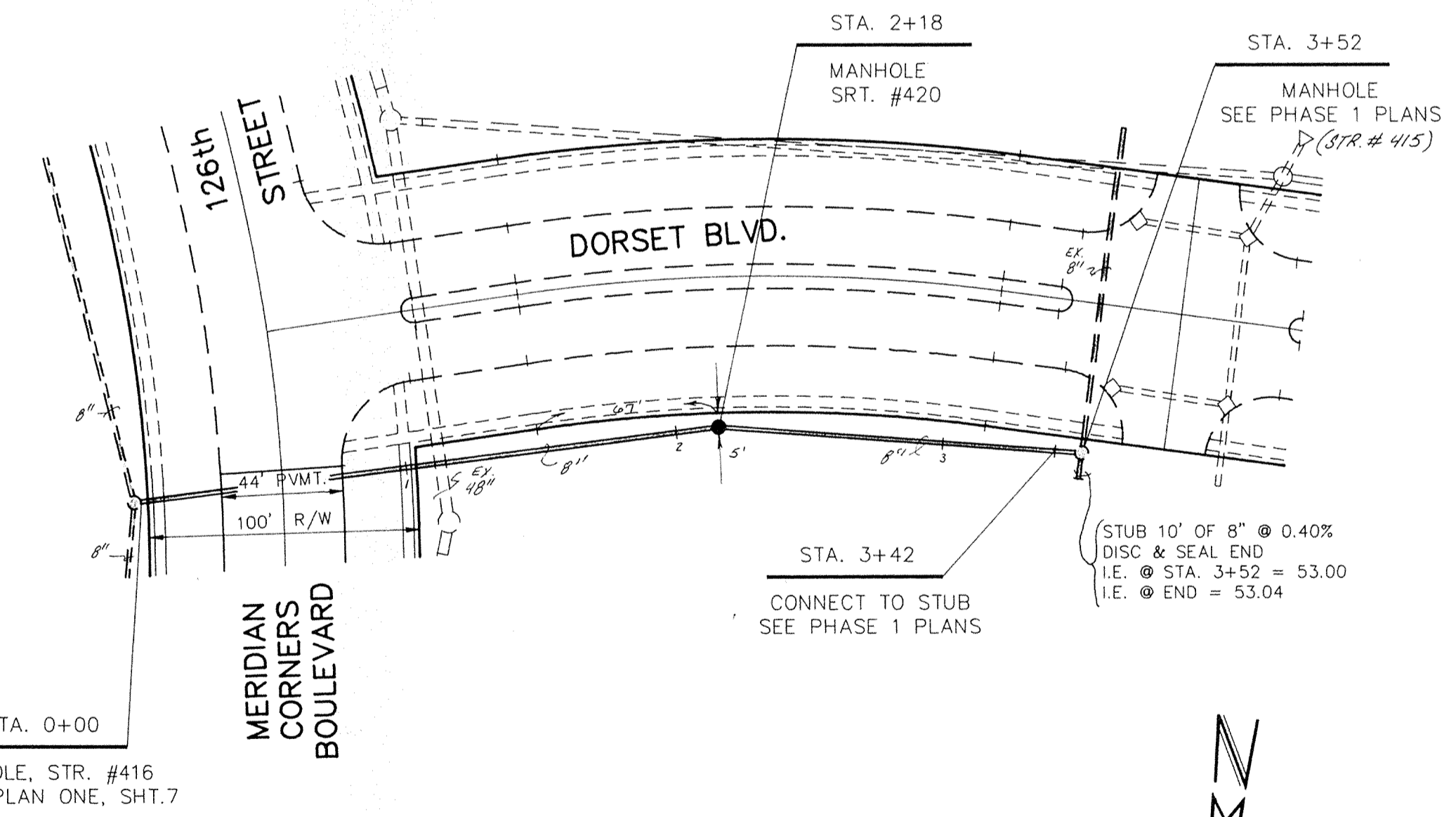


PROFILE TWO

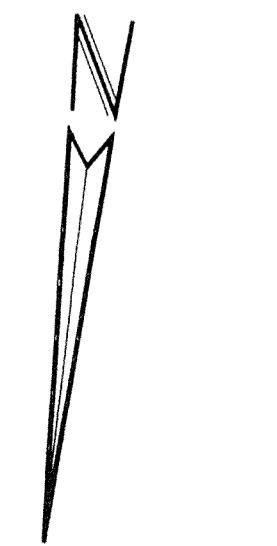
NOTE: CONTRACTOR SHALL VERIFY EXISTING INVERT ELEVATIONS PRIOR TO CONSTRUCTION OF SANITARY SEWER.



PLAN ONE



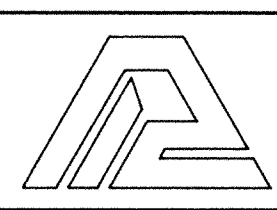
PLAN TWO



FILED
 SEP 1 1988
 HAMILTON COUNTY

CERTIFIED BY:
 Joseph A. Sharp
 9-2-88
 REGISTERED PROFESSIONAL ENGINEER
 No. 15179
 STATE OF INDIANA

REVISIONS
8/11/88 MISC. REV. D.J.S.



PAUL I. CRIFE, INC.
 7172 GRAHAM ROAD
 INDIANAPOLIS, INDIANA 46250
 (317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

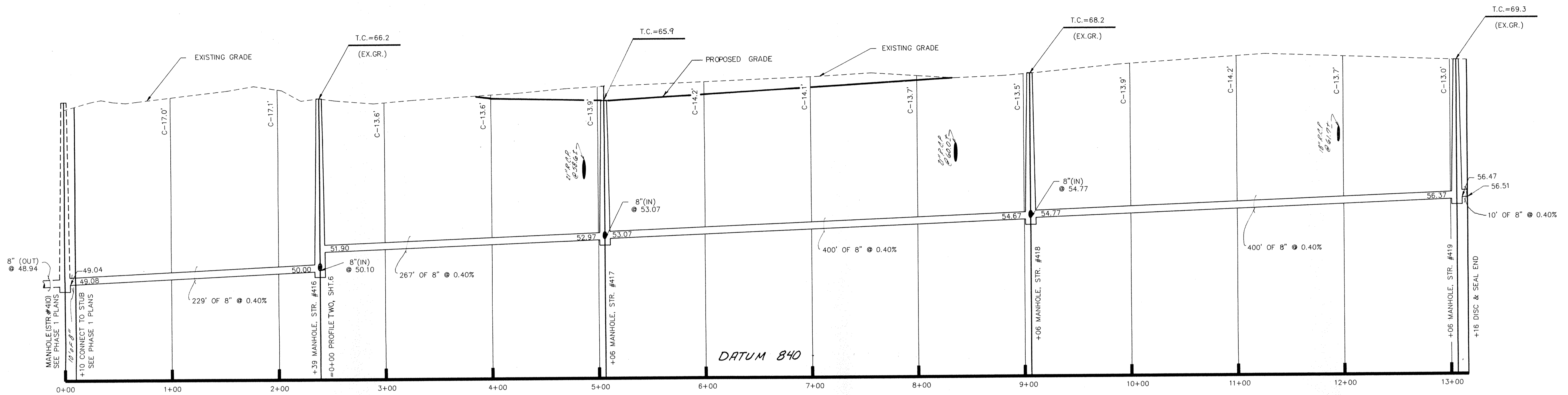
TECH. CHK.: J.S.
 DRAWN BY: D.J.S.
 SCALE: 1"=50'
 HORIZ. VERT.: 1"=5'

DATE: 8/19/88
 CLIENT: MERIDIAN CORNERS PHASE - 2

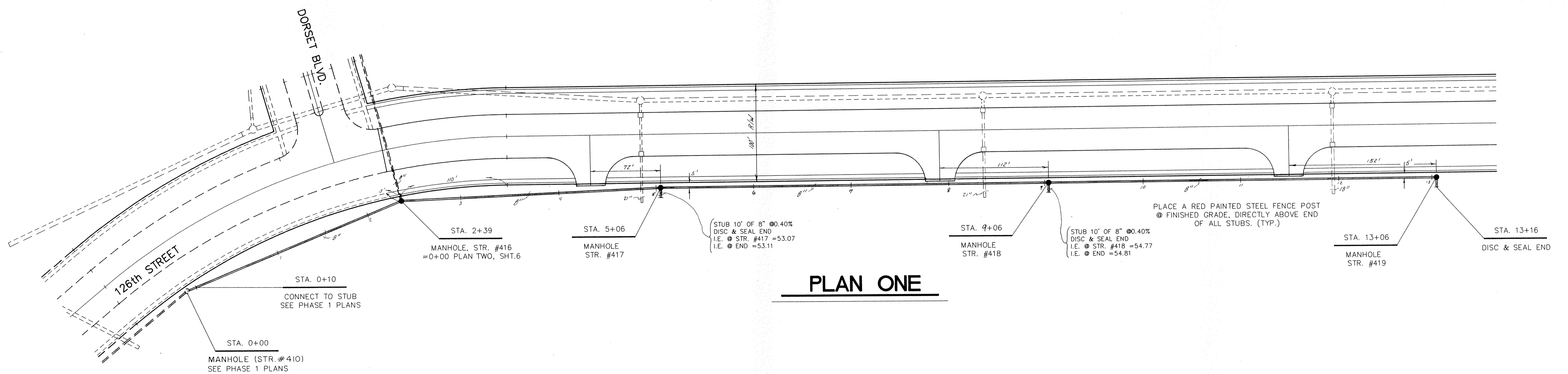
DWG. TYPE: SANITARY SEWER PLAN & PROFILE
 FILE NUMBER: 79205-90000
 JOB NUMBER: 79205-90000

SHEET: 6 OF 14

NOTE: 1. CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXISTING GRADE TO INVERT OF PROPOSED PIPE.
 2. ALL SANITARY SEWER CASTINGS SHALL BE: NEENAH R-1642, AND SHALL SAY "SANITARY SEWER ON THE LID."



PROFILE ONE



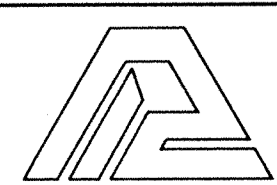
PLAN ONE

NOTE: CONTRACTOR SHALL VERIFY EXISTING INVERT ELEVATION OF SANITARY SEWER PRIOR TO CONSTRUCTION.



CERTIFIED BY: *Joseph A. Shamp*
 9.2.88 DATE

REVISIONS
8/31/88 MISZ REV D.T.S.



PAUL I. CRIFE, INC.
 7172 GRAHAM ROAD
 INDIANAPOLIS, INDIANA 46250
 (317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH CHK: J.S.
 DRFTNG. CHK:

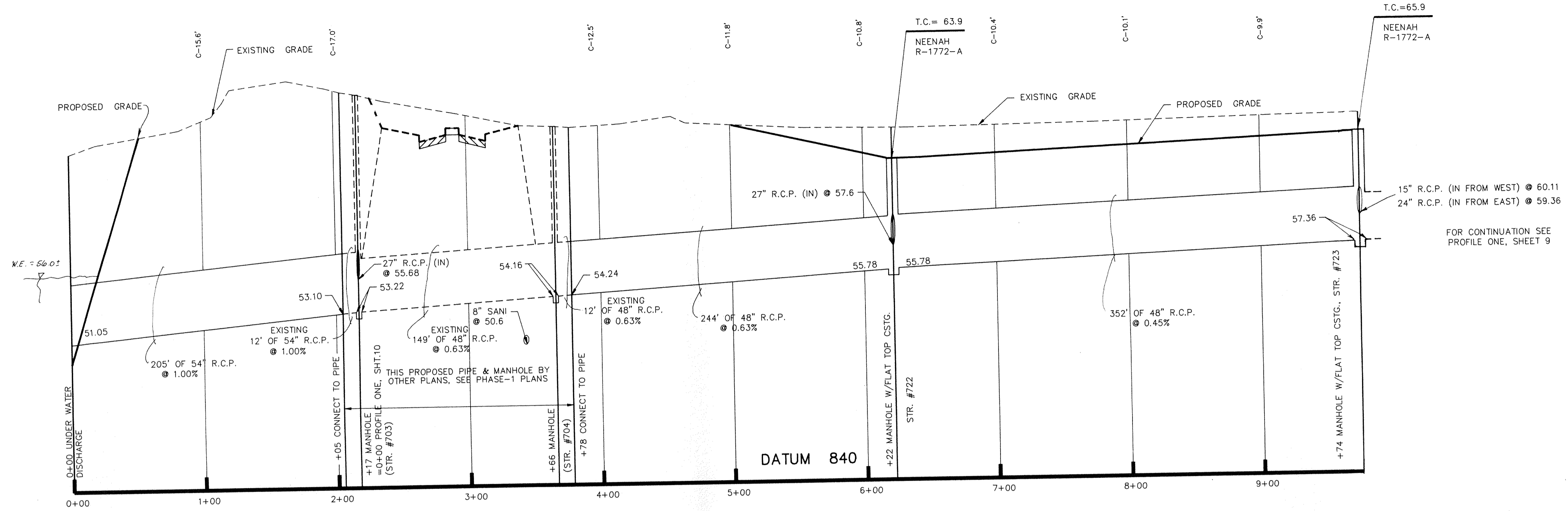
DRAWN BY: D.J.S.
 DRAWING TITLE:

SCALE: HORIZ: 1"=50'
 VERT: 1"=5'
 DATE: 8/19/88
 CLIENT: MERIDIAN CORNERS PHASE - 2
SANITARY SEWER PLAN & PROFILE

DWG. TYPE	FILE NUMBER	JOB NUMBER
		79205-90000

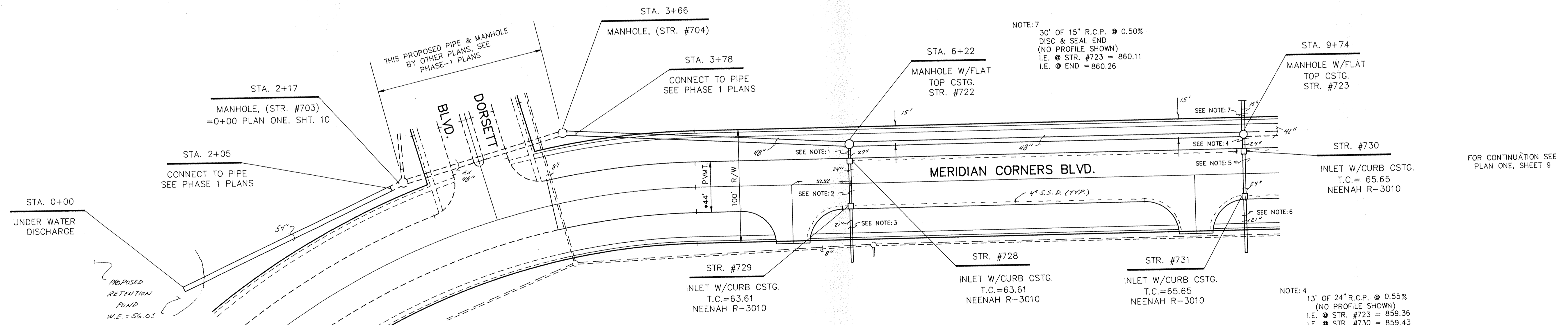
SHEET: **7** OF 14

NOTE: CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXISTING GRADE TO INV. OF PROPOSED PIPE. FIELD ADJUSTMENT BY ENGINEER MAY BE REQUIRED AT ALL OUTFALL POINTS TO INSURE PROPER OUTFALL CONDITIONS.



PROFILE ONE

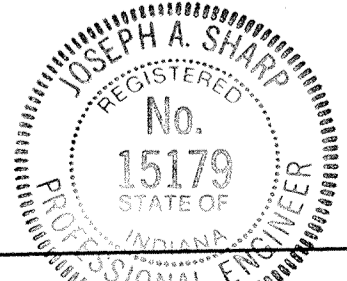
* DIMENSIONS SHOWN ARE TO FACE OF CHAIRBACK CURB.



PLAN ONE

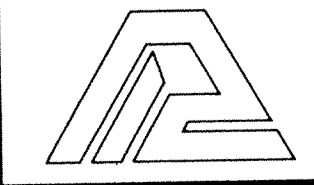
- NOTE: 1 13' OF 27" R.C.P. @ 0.40% (NO PROFILE SHOWN)
I.E. @ STR. #722 = 857.60
I.E. @ STR. #728 = 857.65
COMPACTED GRANULAR BACKFILL
- NOTE: 2 45' OF 24" R.C.P. @ 0.50% (NO PROFILE SHOWN)
I.E. @ STR. #728 = 857.90
I.E. @ STR. #729 = 858.13
COMPACTED GRANULAR BACKFILL
- NOTE: 3 48' OF 21" R.C.P. @ 0.60% DISC & SEAL END (NO PROFILE SHOWN)
I.E. @ STR. #729 = 858.38
I.E. @ END = 858.67
- NOTE: 4 13' OF 24" R.C.P. @ 0.55% (NO PROFILE SHOWN)
I.E. @ STR. #723 = 859.36
I.E. @ STR. #730 = 859.43
COMPACTED GRANULAR BACKFILL
- NOTE: 5 45' OF 24" R.C.P. @ 0.40% (NO PROFILE SHOWN)
I.E. @ STR. #730 = 859.61
I.E. @ STR. #731 = 859.61
COMPACTED GRANULAR BACKFILL
- NOTE: 6 48' OF 21" R.C.P. @ 0.40% DISC & SEAL END (NO PROFILE SHOWN)
I.E. @ STR. #731 = 859.86
I.E. @ END = 860.05
- NOTE: 7 30' OF 15" R.C.P. @ 0.50% DISC & SEAL END (NO PROFILE SHOWN)
I.E. @ STR. #723 = 860.11
I.E. @ END = 860.26

CONTRACTOR SHALL PLACE A GREEN PAINTED STEEL FENCE POST @ FINISHED GRADE DIRECTLY OVER ENDS OF ALL STORM SEWERS. (TYP.)



CERTIFIED BY: *Joseph A. Shamp*
9.2.88 DATE

REVISIONS
8/3/88 REV. PIPE LENGTH PLANS & PROFILE, MISC. REV. D.T.S.



PAUL I. CRIFE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH CHK: J.S.
DRFTNG. CHK:

DRAWN BY: D.J.S.
DRAWING TITLE:

SCALE: HORZ: 1"=50'
VERT: 1"=5'

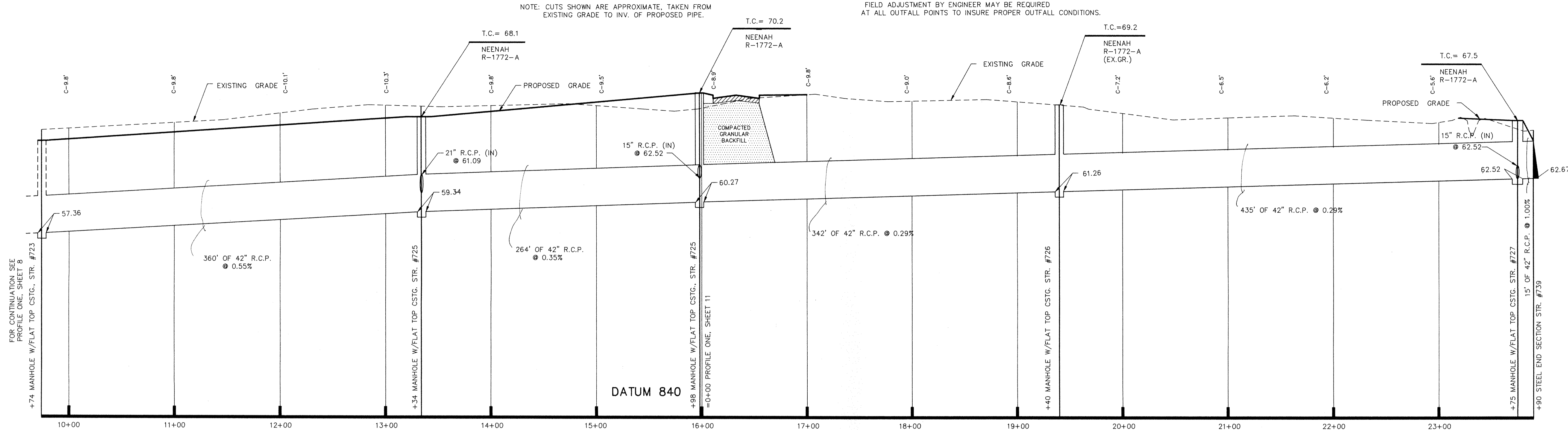
DATE: 8/19/88

CLIENT: MERIDIAN CORNERS - PHASE 2

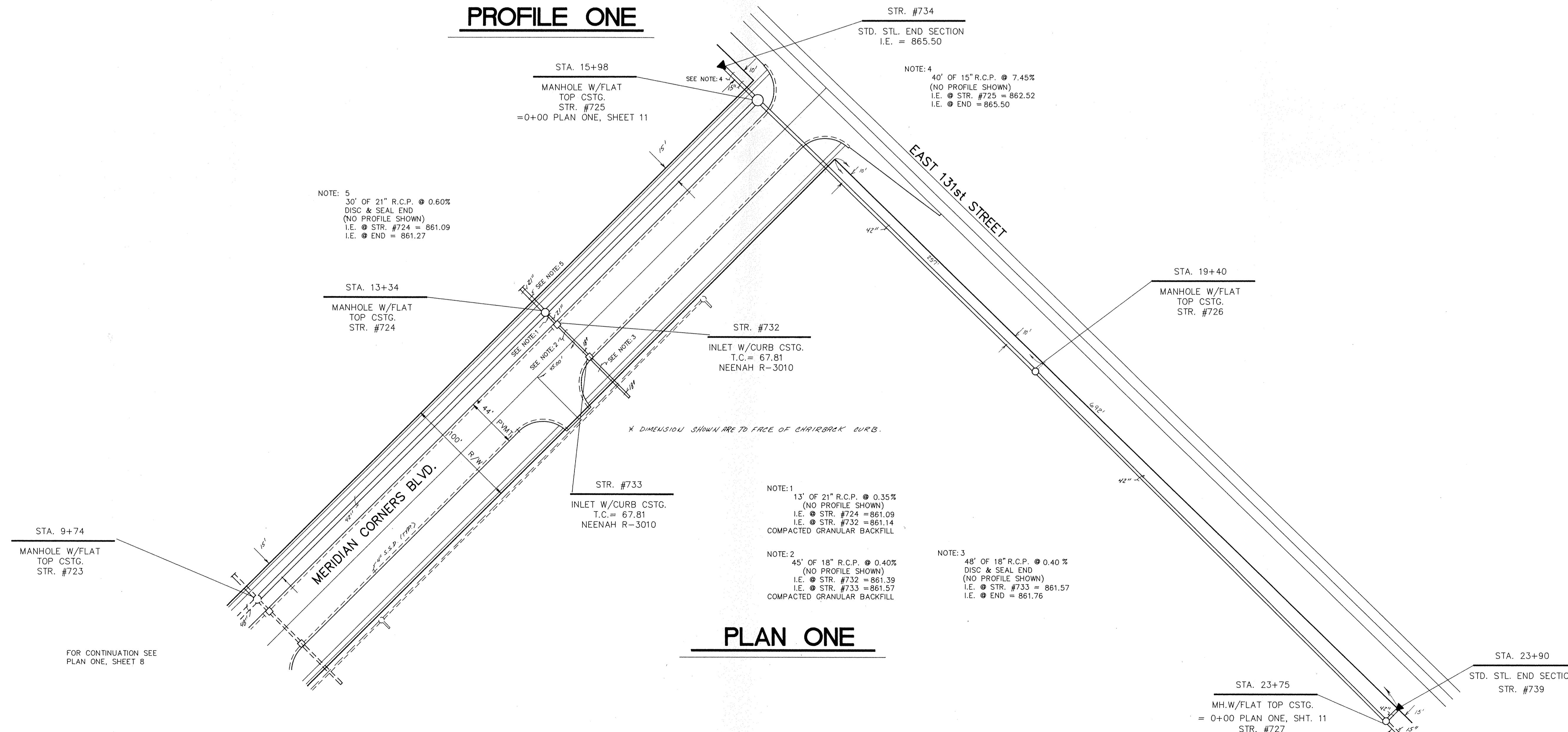
STORM SEWER PLAN & PROFILE

DWG. TYPE	FILE NUMBER	SHEET:
		8
JOB NUMBER		OF 14
7 9 1 2 0 5 1 - 9 0 0 0 0		

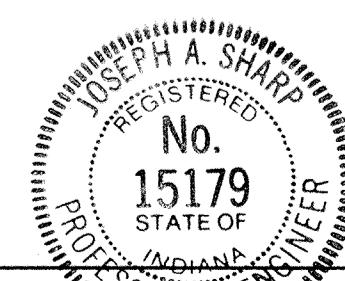
NOTE: CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXISTING GRADE TO INV. OF PROPOSED PIPE.
FIELD ADJUSTMENT BY ENGINEER MAY BE REQUIRED AT ALL OUTFALL POINTS TO INSURE PROPER OUTFALL CONDITIONS.



PROFILE ONE



PLAN ONE



CERTIFIED BY:
Joseph A. Shamp
9-2-88 DATE

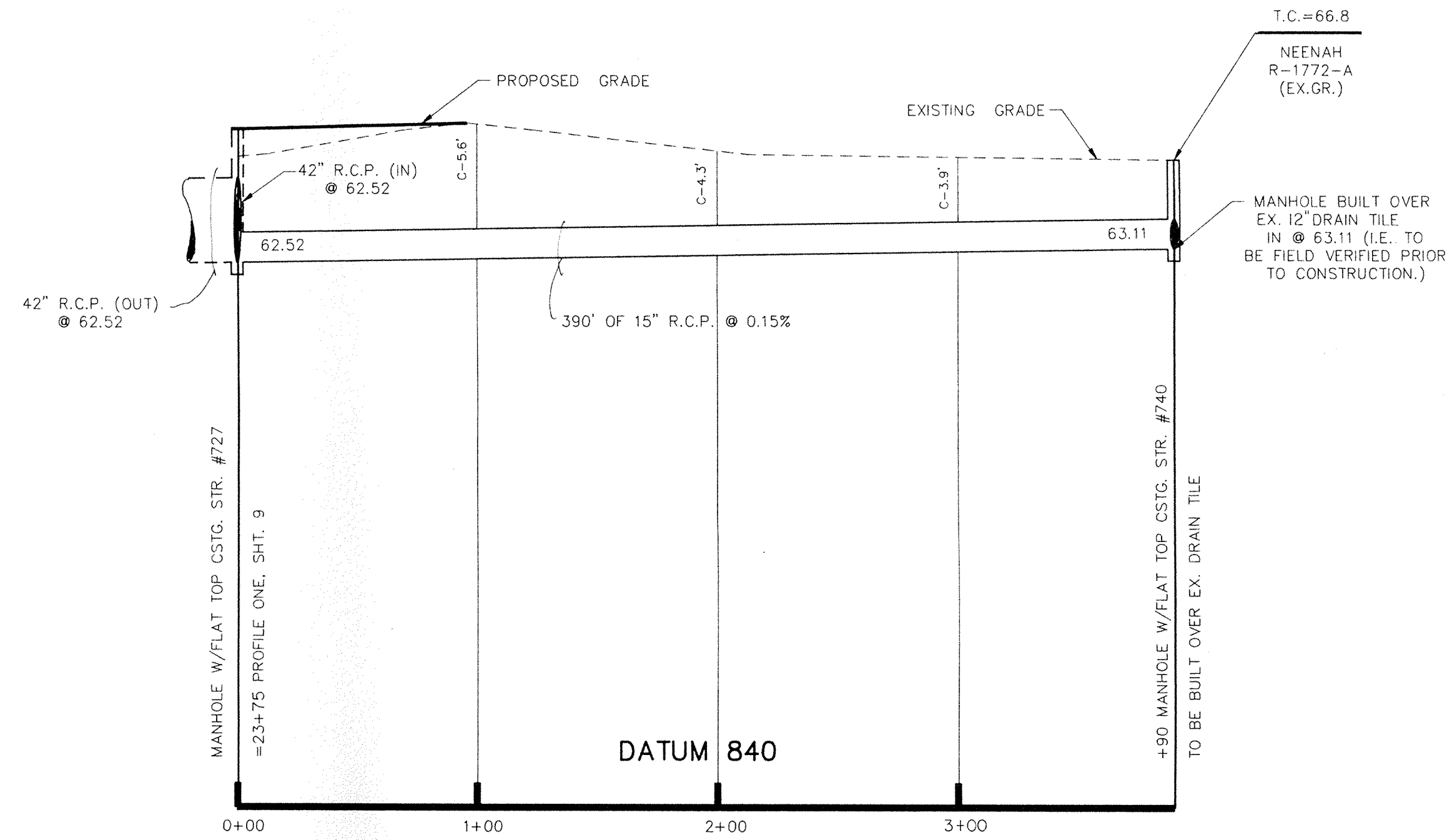
REVISIONS
9/01/88 P.C. PIPE LENGTH PLANNING PROFILE, MISC. REV. D.T.P.

PAUL I. CRIFE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

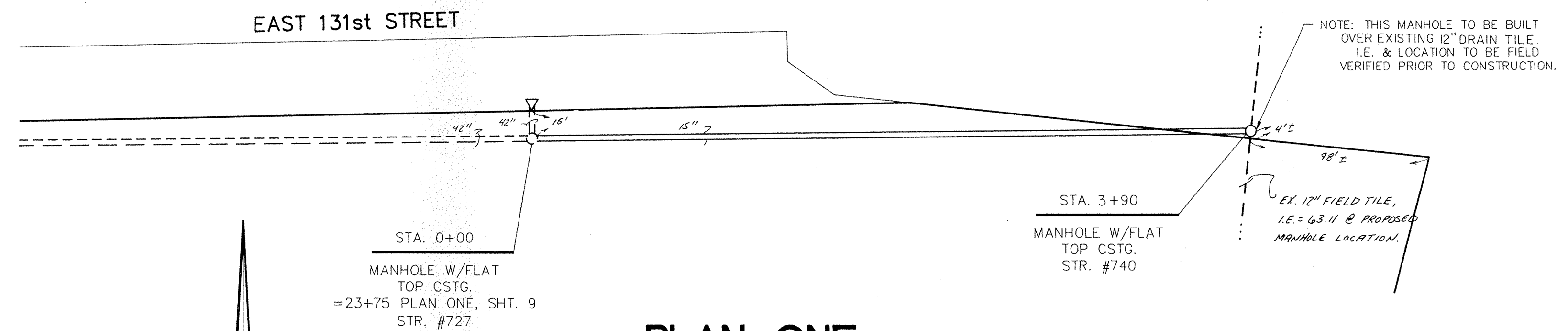
• CIVIL ENGINEERING	TECH CHK: J.S.	DRAWN BY: D.J.S.	SCALE: HORZ: 1"=50' VERT: 1"=5'	DATE: 8/19/88	CUSTOMER: MERIDIAN CORNERS PHASE - 2
• LAND SURVEYING	DRFTNG. CHK:	DRAWING TITLE: STORM SEWER PLAN & PROFILE			
• ARCHITECTURE					
• LAND PLANNING					

DWG. TYPE	FILE NUMBER	SHEET: 9 OF 14
JOB NUMBER		
79205-90000		

NOTE: CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXISTING GRADE TO INV. OF PROPOSED PIPE. FIELD ADJUSTMENT BY ENGINEER MAY BE REQUIRED AT ALL OUTFALL POINTS TO INSURE PROPER OUTFALL CONDITIONS.



PROFILE ONE



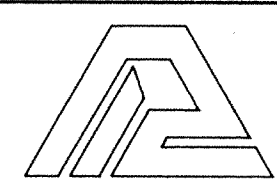
PLAN ONE

FILED
SEP 1 1988
HAMILTON COUNTY SURVEYOR



CERTIFIED BY:
Joseph A. Sharp
DATE: 9.2.88

REVISIONS



PAUL I. CRIFE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH. CHK: J.S.
DRFTNG. CHK:

DRAWN BY: D.J.S.
DRAWING TITLE:

SCALE: HORIZ: 1"=50'
VERT: 1"=5'

DATE: 8/19/88

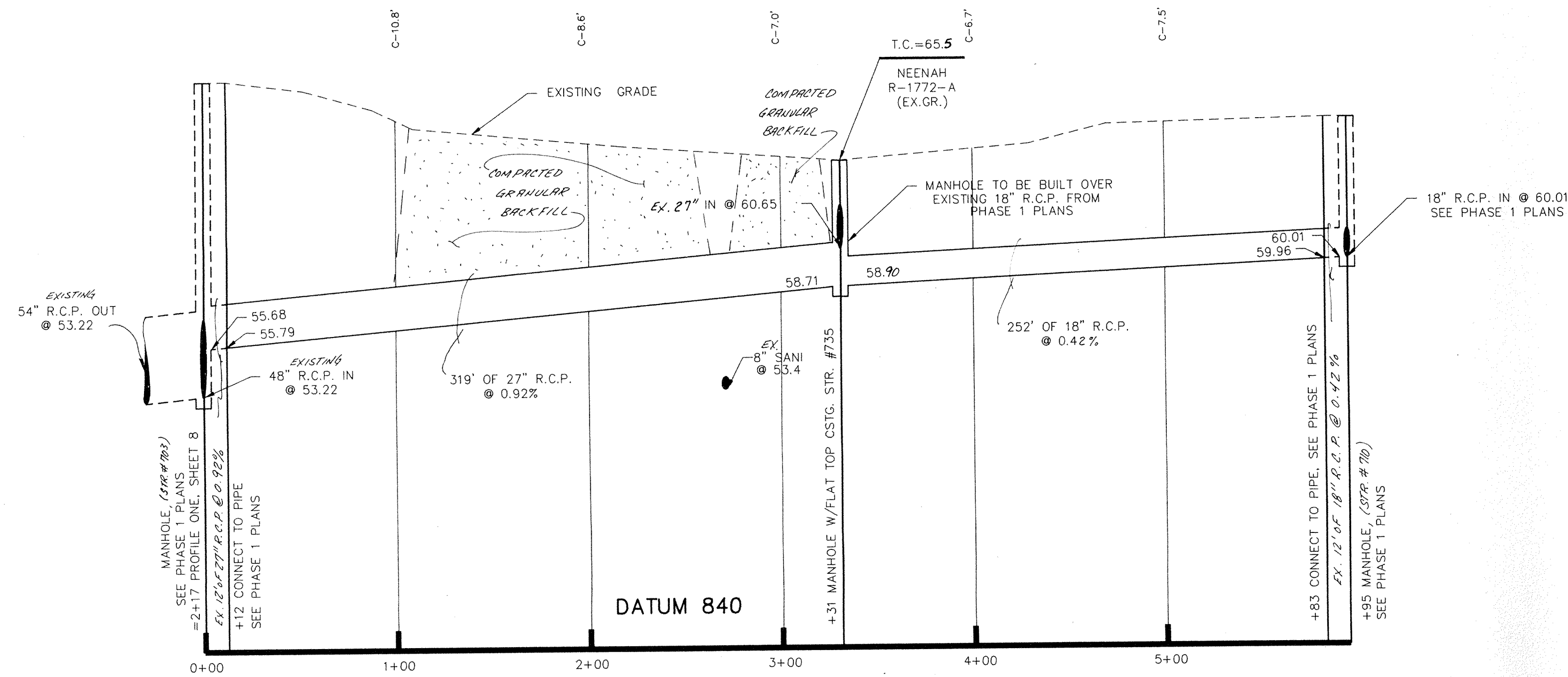
CLIENT: MERIDIAN CORNERS - PHASE 2

STORM SEWER PLAN & PROFILE

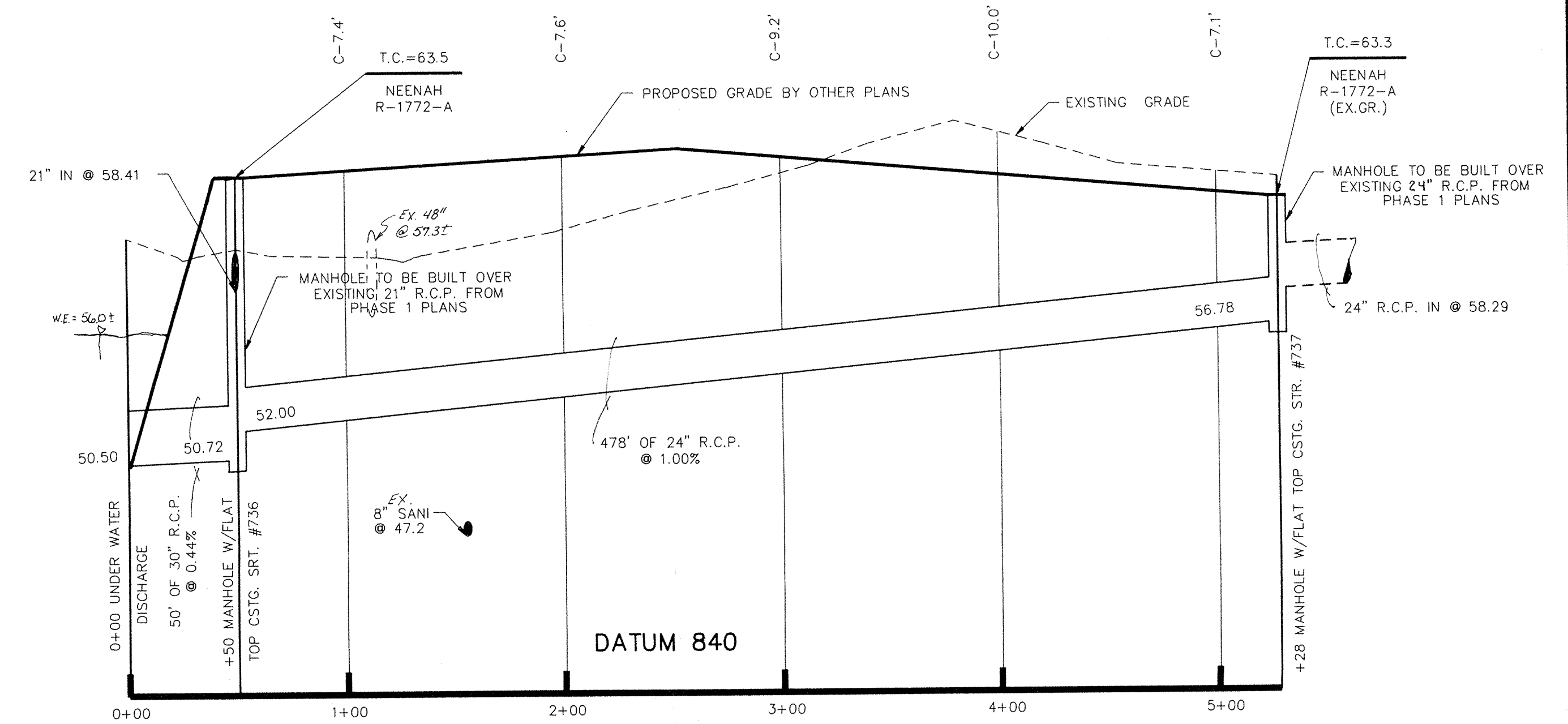
DWG. TYPE	FILE NUMBER	JOB NUMBER
		719205-90000

SHEET: **10** OF 14

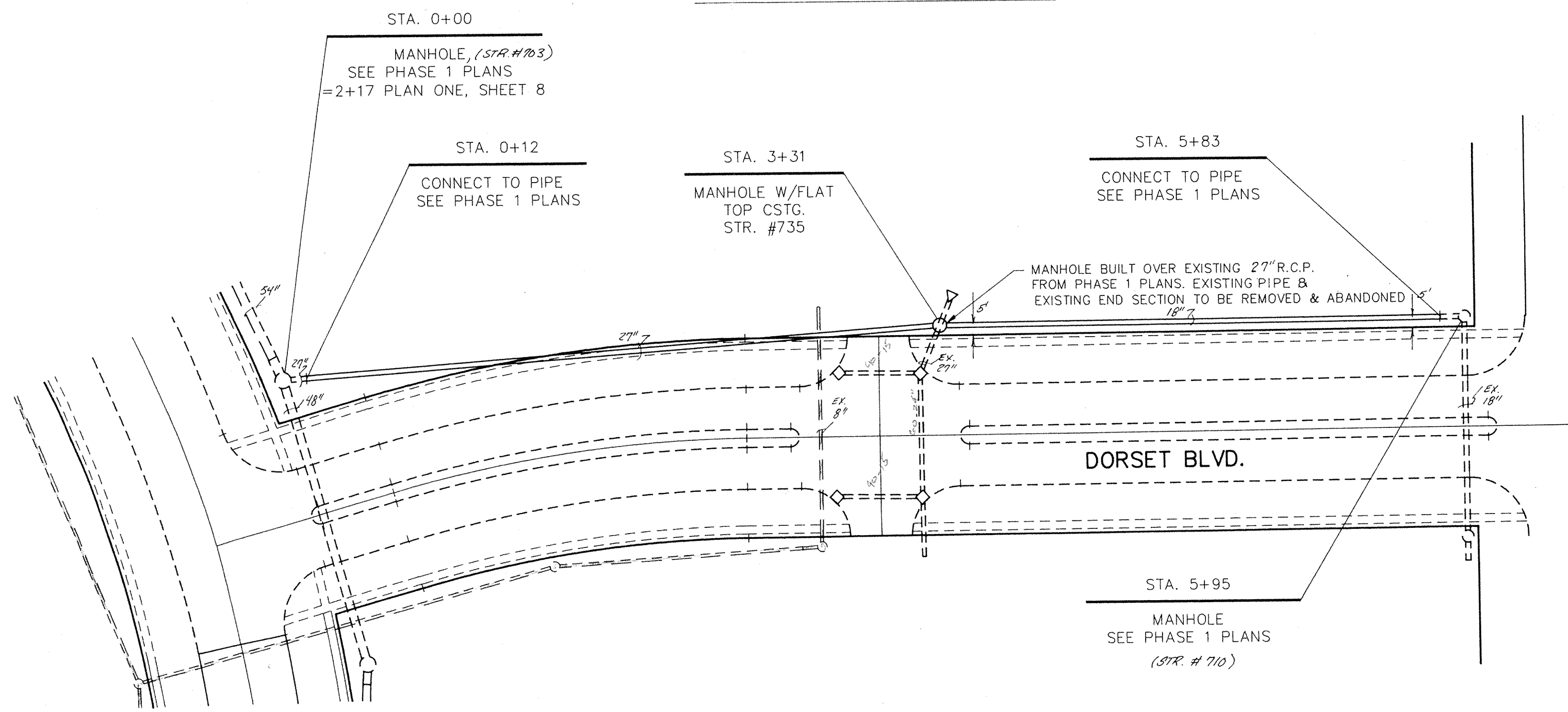
NOTE: CUTS SHOWN ARE APPROXIMATE, TAKEN FROM EXISTING GRADE TO INV. OF PROPOSED PIPE. FIELD ADJUSTMENT BY ENGINEER MAY BE REQUIRED AT ALL OUTFALL POINTS TO INSURE PROPER OUTFALL CONDITIONS.



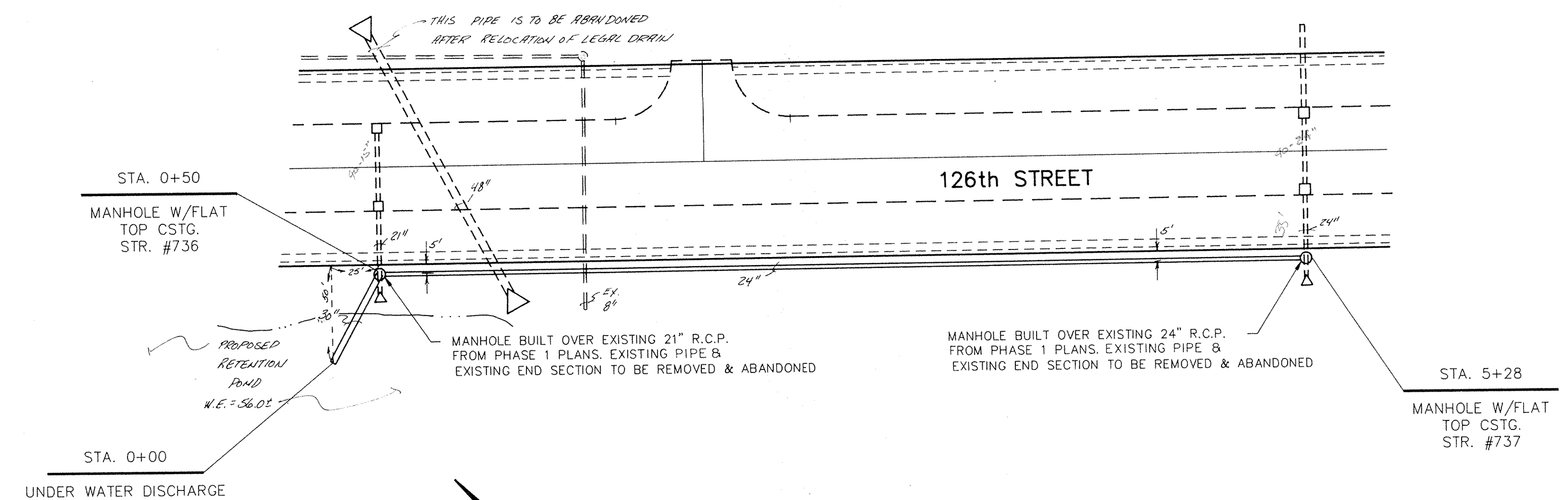
PROFILE ONE



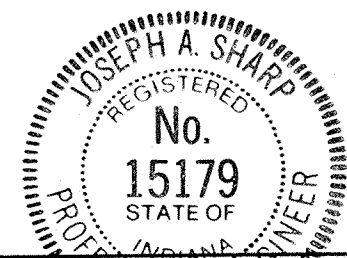
PROFILE TWO



PLAN ONE

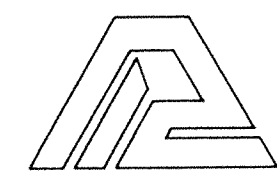


PLAN TWO



CERTIFIED BY: *Joseph A. Sharp*
DATE: 9.2.88

REVISIONS



PAUL I. CRIFE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH. CHK: J.S.
DRAWING. CHK: D.J.S.

DRAWN BY: D.J.S.

SCALE: HORIZ: 1"=50'
VERT: 1"=5'

DATE: 8/19/88

CLIENT: MERIDIAN CORNERS PHASE - 2

DRAWING TITLE: STORM SEWER PLAN & PROFILE

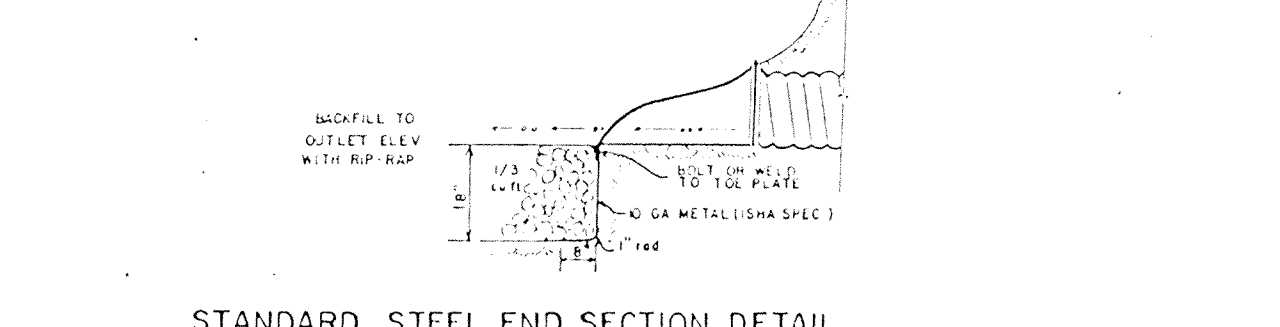
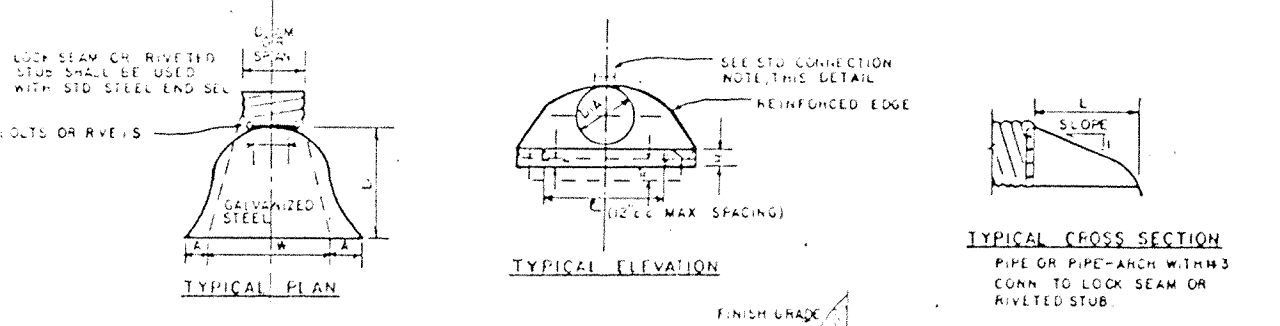
DWG. TYPE	FILE NUMBER	SHEET: 11 OF 14
JOB NUMBER: 792015-90000		

FILED
SEP 1 1988
OFFICE OF HAMILTON COUNTY SURVEYOR

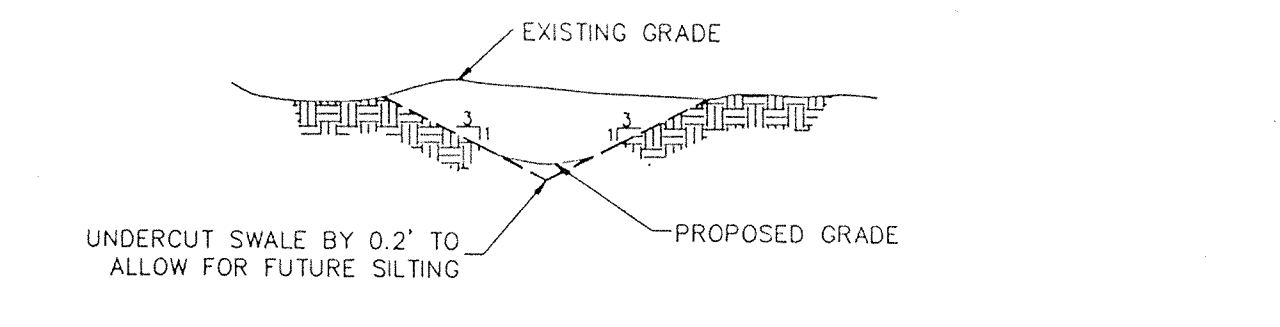
DIMENSIONS OF GALVANIZED STEEL END SECTIONS FOR ROUND PIPE

PIPE DIA. IN INCHES	GAUG.	W. IN INCHES	H. IN INCHES	W. IN INCHES	H. IN INCHES	W. IN INCHES	H. IN INCHES	W. IN INCHES	H. IN INCHES
12	16	6	8	6	12	21	24	2 1/2	1 1/4
15	16	7	9	6	15	24	27	2 1/2	1 1/4
18	16	8	10	6	18	31	36	2 1/2	1 1/4
21	16	9	12	6	21	36	42	2 1/2	1 1/4
24	16	10	13	6	24	41	48	2 1/2	1 1/4
30	14	12	16	6	30	51	60	2 1/2	1 1/4
36	14	14	18	6	36	60	72	2 1/2	1 1/4
42	12	16	22	11	42	69	84	2 1/2	1 1/4
48	12	18	27	12	48	78	96	2 1/2	1 1/4
54	12	18	30	12	54	84	102	2 1/2	1 1/4
60	12	18	33	12	60	87	114	2 1/2	1 1/4
66	12	18	36	12	66	93	120	2 1/2	1 1/4
72	12	18	39	12	72	99	126	2 1/2	1 1/4
78	12	18	42	12	78	105	132	2 1/2	1 1/4
84	12	18	45	12	84	111	138	2 1/2	1 1/4

STANDARD CONNECTIONS
 TYPE #1 SHALL BE CONNECTOR END WITH THREADED ROD.
 TYPE #2 SHALL BE THROUGH END WITH THREADED ROD.
 TYPE #3 SHALL BE RIVETED OR BOLTED CONNECTION.
NOTE: STANDARD DIMENSIONS FOR GALVANIZED STEEL END SECTIONS FOR PIPE WHICH MAY BE FOUND ON M.S.U. STANDARD SHEET E, SHOWN APPROX. 1/2% OF THE INDIANA STATE HIGHWAY STANDARD SPECIFICATIONS.



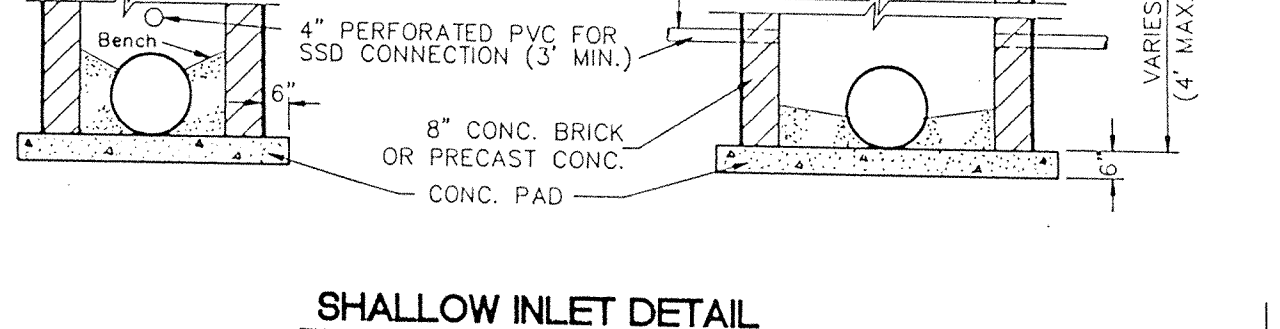
STANDARD STEEL END SECTION DETAIL
NO SCALE



TYPICAL SWALE DETAIL
NO SCALE



SHALLOW INLET DETAIL
NO SCALE

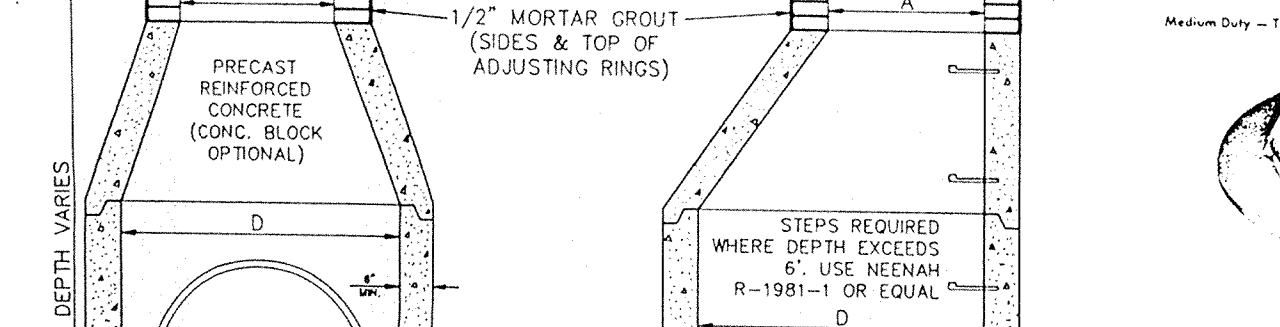


CURB INLET SETTING DETAIL
SCALE NONE

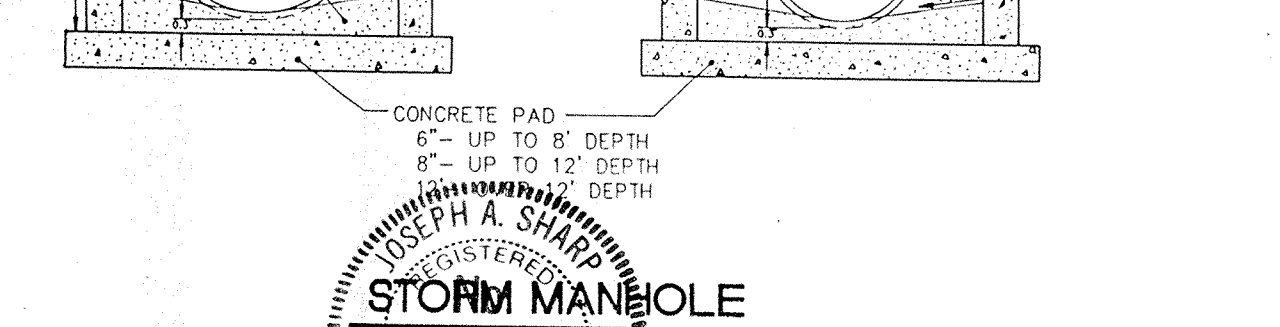
CASTING	A	B	C	D
R-1642	25" DIA.		27" 4'-0"	
R-3010	24" 25"		27" 4'-0"	
			30" 4'-4"	
			36" 5'-0"	
			42" 5'-6"	
			48" 6'-0"	
			54" 6'-6"	

* R-1642 CASTING SHALL SAY "SANITARY SEWER" ON LID OF SANITARY SEWER ONLY.

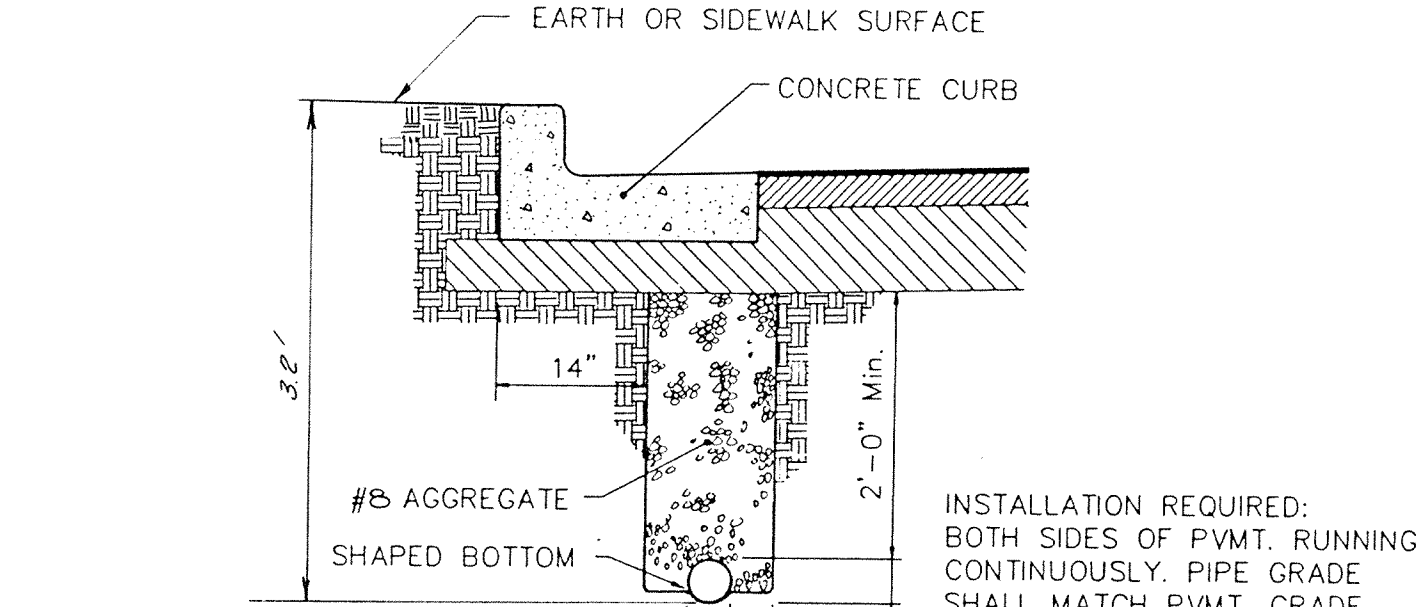
NOTE: STRUCTURES TO BE CIRCULAR UNLESS OTHERWISE SPECIFIED.



DITCH GRATE CASTING SETTING DETAIL
NO SCALE



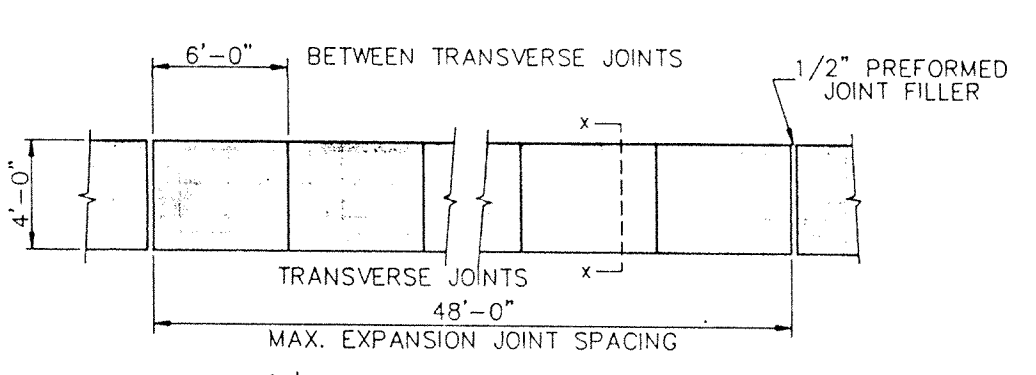
STORM MANHOLE
15179
NO SCALE



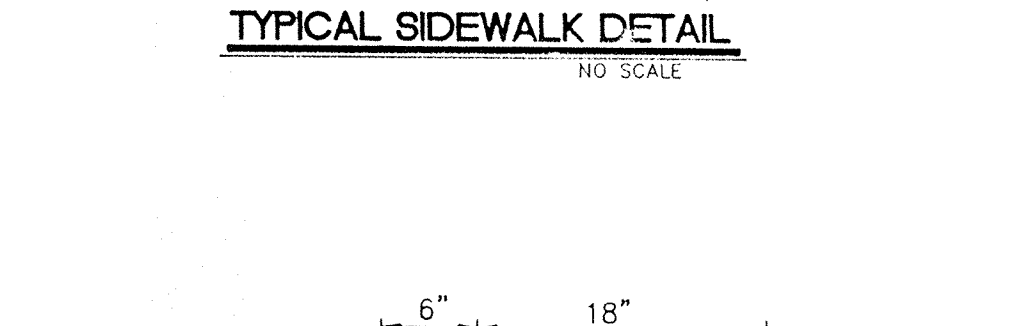
PIPE UNDERDRAIN DETAIL
NO SCALE

INSTALLATION REQUIRED: BOTH SIDES OF PVMT. RUNNING CONTINUOUSLY. PIPE GRADE SHALL MATCH PVMT. GRADE.

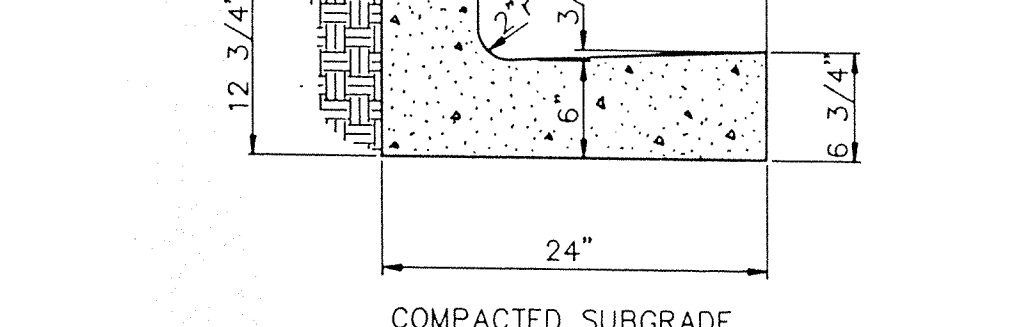
PIPE MATERIAL: SHALL MEET GENERAL INDUSTRY STANDARD FOR CLAY, CONCRETE, CORRUGATED METAL, PLASTIC, OR APPROVED EQUAL, OPEN JOINT OR PERFORATED.



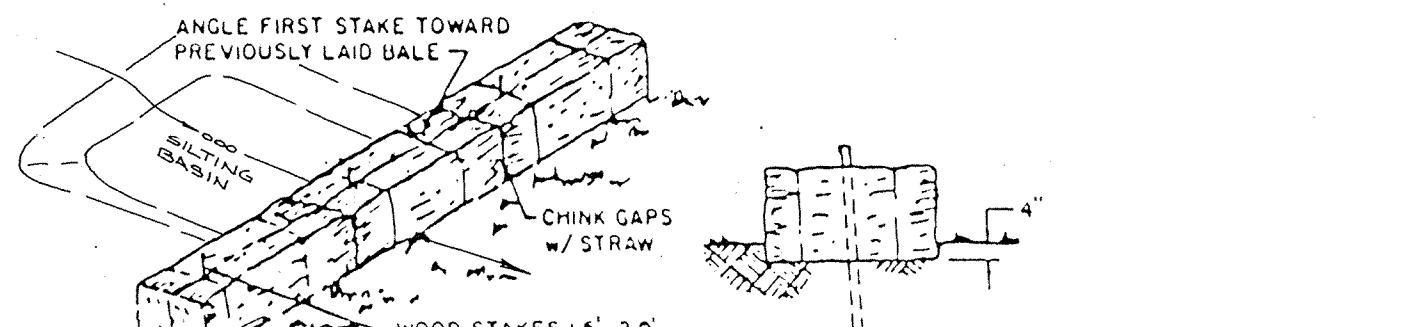
TYPICAL SIDEWALK DETAIL
NO SCALE



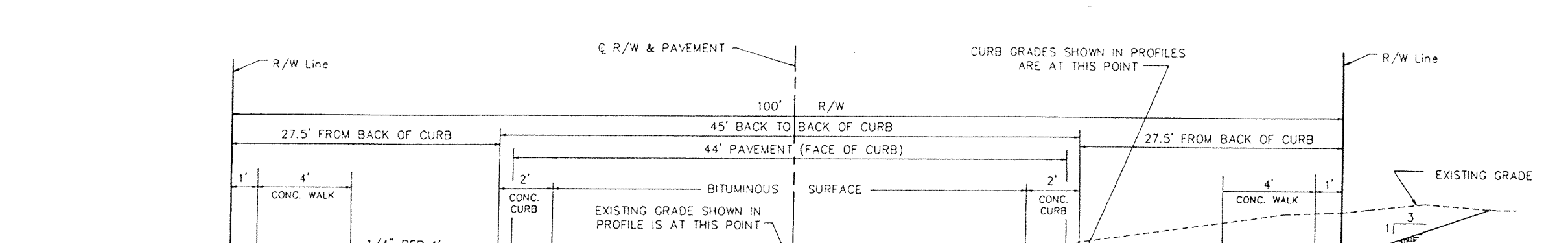
CHAIRBACK CURB
NO SCALE



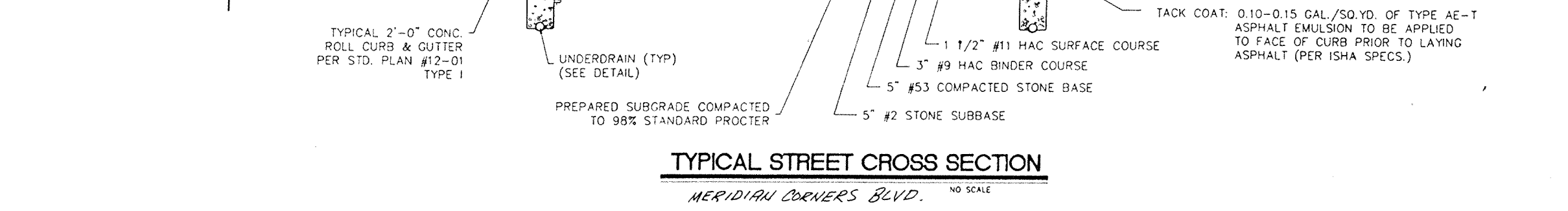
CHAIRBACK CURB W/ REVERSE SLOPE
NO SCALE



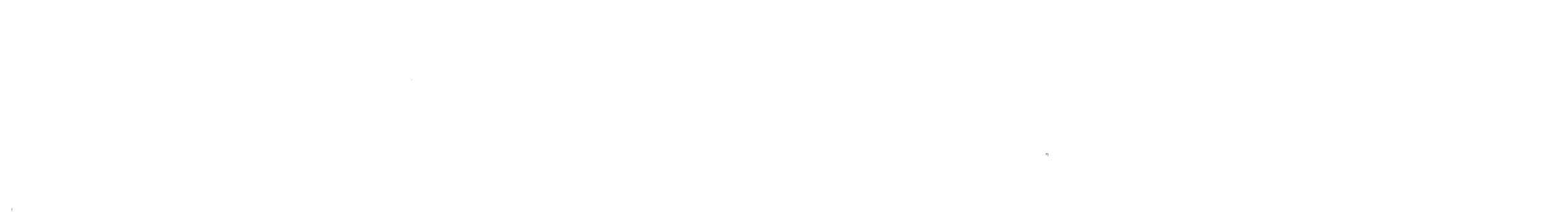
STRAW BALE DAM DETAIL
SECTION



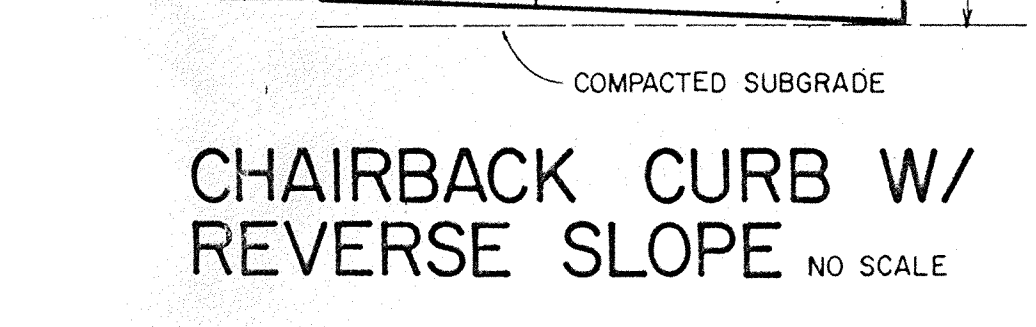
TYPICAL STREET CROSS SECTION
MERIDIAN CORNERS BLVD.
NO SCALE



PRECAST DROP MANHOLE
SCALE NONE



SANITARY SEWER TRENCH DETAIL
Scale: None



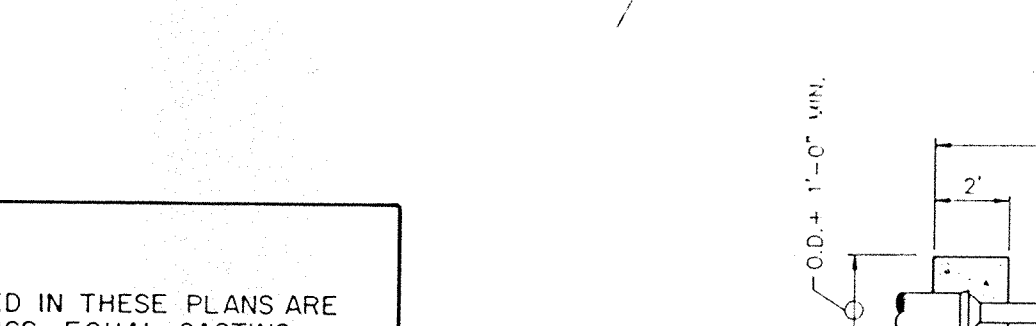
CURB INLET SETTING DETAIL
SCALE NONE



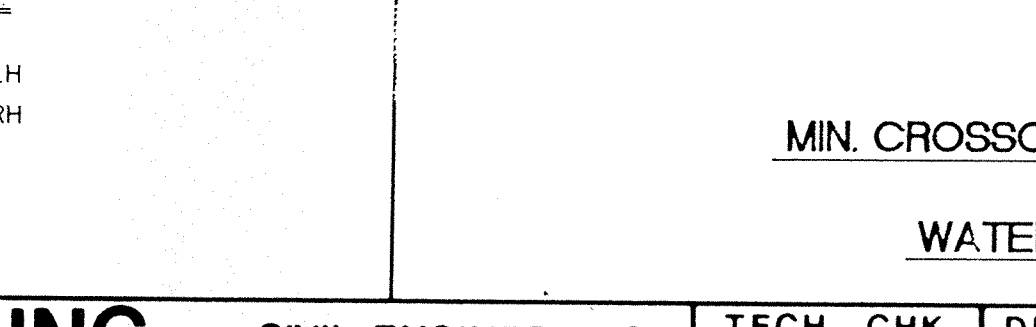
PRECAST DROP MANHOLE
SCALE NONE



SANITARY SEWER TRENCH DETAIL
Scale: None



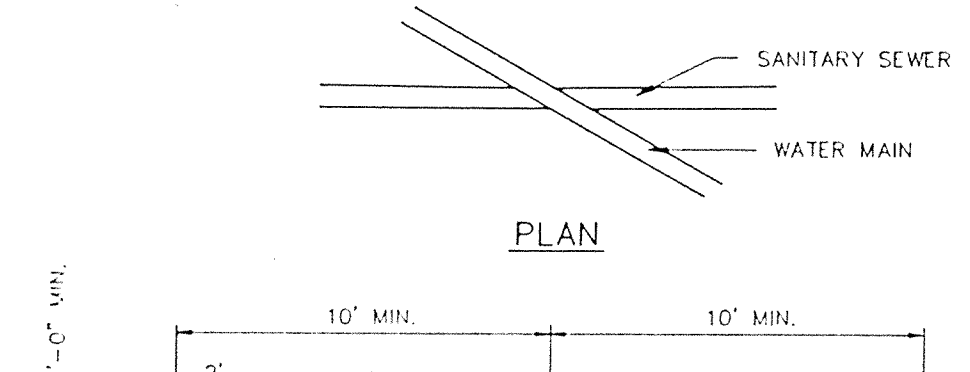
PRECAST DROP MANHOLE
SCALE NONE



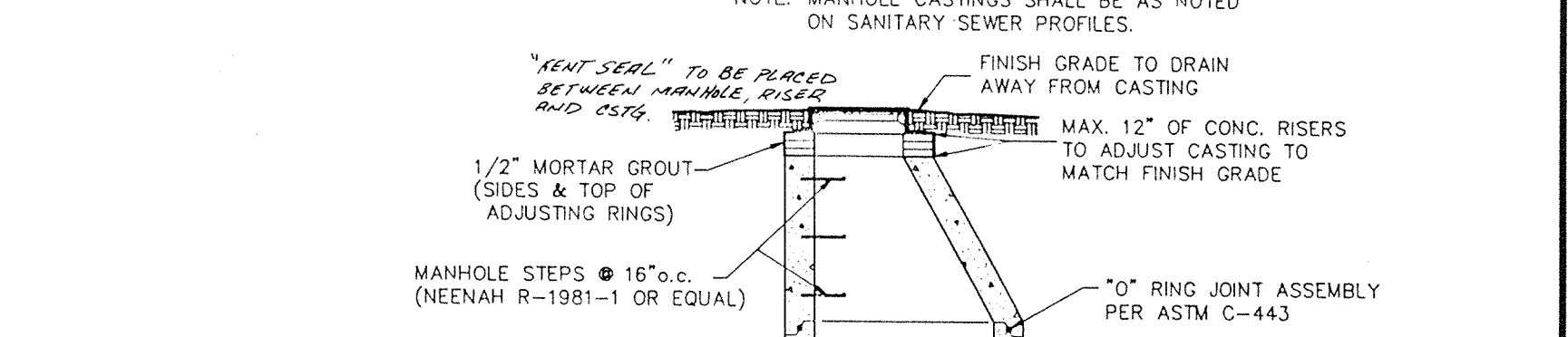
SANITARY SEWER TRENCH DETAIL
Scale: None

CASTING NOTE:
SEWER CASTINGS SPECIFIED IN THESE PLANS ARE NEENAH FOUNDRY CO. CASTINGS. EQUAL CASTING TYPES BY EAST JORDAN IRON WORKS INC. MAY BE SUBSTITUTED. LISTED BELOW ARE ACCEPTABLE E.J.I.W. SUBSTITUTIONS.

NEENAH	E.J.I.W.
R-1772-A	1022-1
R-350I-TL	7495 LH
R-350I-TR	7495 RH
R-4342	6489
R-3010	1010
R-1642	1040



MIN. CROSSOVER AND SEPARATION REQUIREMENTS FOR WATER MAINS AND SANITARY SEWERS



STANDARD MANHOLE
FOR SANITARY SEWERS AS ILLUSTRATED
NO SCALE

CERTIFIED BY
Joseph A. Shap
7.2.88
DATE

REVISIONS

NO.	DESCRIPTION
1	9/1/88 MISC. REV. D.J.S.

PAUL I. CRIFE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH. CHK.	DRAWN BY	SCALE	DATE	CLIENT
		NO SCALE	8/19/88	MERIDIAN CORNERS - PHASE 2
DFTNG. CHK.	DRAWING TITLE			
	DETAILS			

DWG. TYPE	FILE NUMBER	SHEET
		12
JOB NUMBER		OF 14
79205-90000		

SPECIFICATIONS

The standard specifications for the City of Carmel shall apply for all work and materials.

STORM

- Storm sewer pipes shall be reinforced concrete (R.C.P.) in accordance with ASTM-C-76, or corrugated metal pipe (CMP) one size larger in accordance with AASH spec. M-36.
- Exceptional areas may require additional subsurface drainage. Street and storm sewer contractors shall include in their bids a unit cost per foot of installation of 4" dia. perforated plastic underdrain (see detail sheet 12). Location of such underdrain will be at the direction of the owner, or the engineer.
- Rip-rap shall be installed at pipe inlets or outlets as the owner/engineer directs. Contractor shall include unit price for rip-rap, min 1/3 cu. ft. rock size, installed.
- Storm sewer discharge areas and inverts are tentative and are subject to field modifications according to the unit prices submitted by the Contractor on the contract documents.
- The Contractor shall provide at least 2' of cover over all storm sewers.
- All drainage pipe and ditch outfalls to receiving streams shall be constructed in accordance with drawings, subject however, to any modification required by City of Carmel at the time installation is completed and to any adjustments needed for field conditions not adequately anticipated by the design drawings.
- Casting Elevations are set by plan. However, the casting elevations are to be adjusted in the field by the Engineer's representative should a discrepancy occur between plan grade and existing grade.
- All structures and all cuts under proposed paved areas shall be backfilled with granular material in addition to areas specifically noted on the plans. The granular material shall completely fill the trench in the area under the proposed pavement and shall extend at a one-to-one slope from the proposed pavement edge.
- The Contractor shall contact all utility companies before any construction is started. He shall obtain the exact location of any utility lines and shall protect these lines during construction.
- The Contractor shall be responsible for obtaining all State, Highway, City and County permits.
- The Contractor shall be required to furnish the Engineer with a set of prints, marked in red, showing actual sewer location and invert, to include lateral location, depth and length. Such "as built" prints must be received by the Engineer before the final contract payment can be authorized.
- The Contractor will be reimbursed for any additional labor and/or materials arising from the changes other than minor adjustments to manholes authorized by the Engineer. Reimbursement will be in accordance with unit prices submitted by the Contractor on the contract documents.

Sanitary Sewer Specifications

- Standard specifications of the Indiana State Board of Health shall apply for all work and materials.
- All sanitary sewer in this project shall be Polyvinyl Chloride (PVC) meeting requirements set forth in ASTM D-3034 (SDR 35). Pipe shall have a groove and gasket connection. All joints and fitting shall conform to the same standards as the pipe.
- Bedding for flexible pipe shall conform to Clay Township Regional Waste District Specifications.
- Backfill around all structures and all cuts under paved area with granular material. Mechanically compact all granular fill to same percentage as street subgrade.
- The Contractor shall be responsible for obtaining all State, City and County permits.
- Alignment and grade changes in plan may be deviated from in field with Engineer's approval. Final plans furnished with maintenance bond and completed affidavit shall reflect "as built" conditions.
- All sewer shall be Air Tested per State Board of Health requirements. All "flexible" pipe shall have an approved "Mandrel" pulled thru each length. If infiltration is evident, a Weir Test shall be performed also. All tests shall be certified.
- Construction of sidewalks near sewer trenches shall be delayed until six months after completion of sewer, or the sewers shall be backfilled with granular material.
- Leveling material under base of manholes shall be #8 stone.

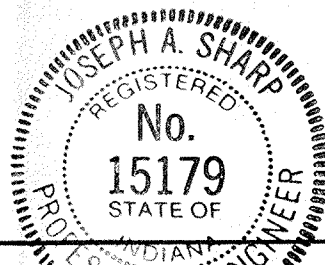
Soil Erosion Control Summary

The following is a list in sequence of construction activities to control soil erosion:

- Contractor shall install sediment traps and straw bale filters, as shown.
- grade the site (sides of swales, mounds and ponds to be seeded and mulched immediately upon completion). Temporary seeding shall be recommended for all swales and disturbed areas that cannot be final seeded within a time period that will prevent slope erosion. For temporary seeding the contractor shall utilize a fast growing seed of either oats, annual ryegrass, wheat or rye depending on time of year. Disturbed areas should be kept to a minimum at all times.
- Contractor shall control mud accumulation on all streets surrounding project by installing stone surface at all locations where construction traffic leaves the site. Dust shall be kept to a minimum by utilizing sprinkling, Calcium Chloride, Vegetative cover, spray on adhesives or other approved methods.
- Maintain all filters and traps during construction to prevent any blockages from accumulated sediment. Additional seeding and straw bales may be required during construction as specified by Engineer or Soil Conservation Service. Rip rap shall be placed in areas of high velocity stream flow (minimum size 1/3 cu. ft.). Payment for additional straw bales shall be at the Contractors expense. Payment for additional rip rap (not shown on plans) and seeding shall be paid for on a unit basis.
- Contractor shall install all sanitary sewers, storm sewers, subsurface drains, and water mains. Straw bale filters shall be installed at all storm inlets (including street inlets).
- All proposed street areas shall be paved as soon as possible after subgrade is prepared.
- All disturbed areas shall be seeded and mulched as specified below. This shall include all building pad fill areas.
- Contractor shall remove all temporary erosion and sediment controls only when there is a sufficient growth of ground cover to prevent further erosion.

Seeding Specifications:

- Swales/Grassed Waterways: Permanent seeding shall take place between March 1 and May 15 or from August 10 to October 15 with the following per acre:
 25# Kentucky 31 Fesque
 15# Kentucky Blue Grass
 1000# 12-12-12 Fertilizer
 3000# Mulch (Straw)
- If grades are established between May 15 and August 10, a temporary seeding consisting of 40# of Annual Ryegrass shall be planted per acre.
- If grades are established between October 15 and December 30, either Rye (grain) or Wheat may be used at the rate of 2 bushels/Ac. Oats may be used for early spring planting at the rate of 3 bushels/Ac. All grains should be cut at time of permanent seeding. All grains should be cut prior to seed maturing.
- If temporary seeding is established prior to permanent seeding, the mulch may be eliminated except in "bare" areas.
- If grading occurs during December, January, or February, no seeding to take place till spring planting time; however, it is imperative that all sediment filters and traps are in place prior to bulk earthmoving or clearing.
- All areas along street (approximately 25 foot behind curb) shall be seeded the same as swales.
- All lots where grading has occurred, shall be seeded with the temporary seeding process.
- All dates shown are nominal, and may be varied with concurrence of the Engineer or the Local Soil Conservationist.



CERTIFIED BY
Joseph A. Sharp
 9.2.88 DATE

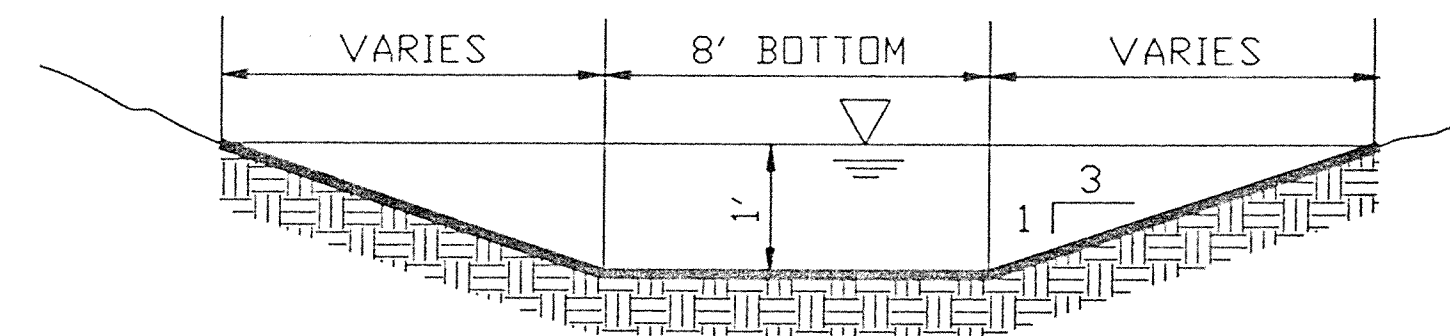
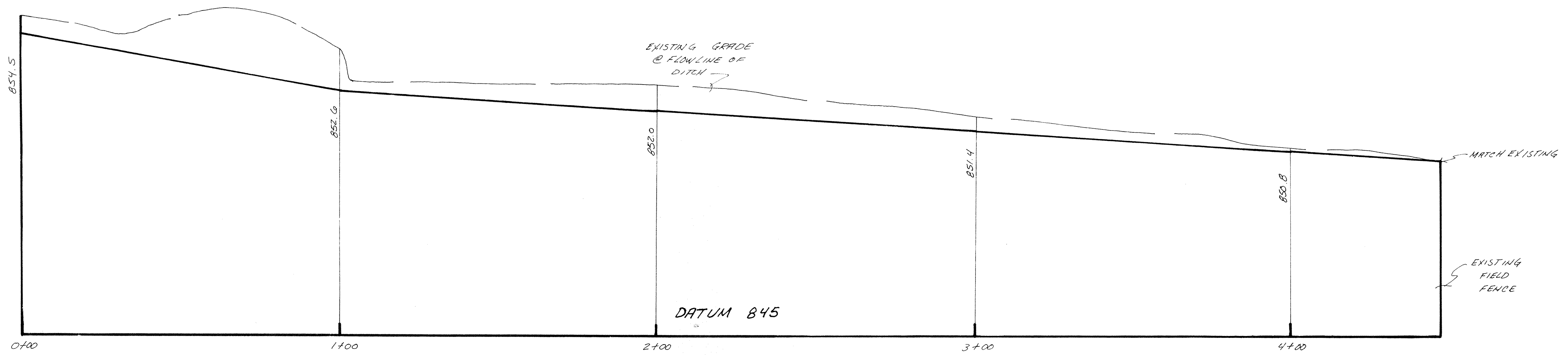
REVISIONS
9/10/88 MISC. REV. D.T.S.

PAUL I. CRIFE, INC.
 7172 GRAHAM ROAD
 INDIANAPOLIS, INDIANA 46250
 (317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

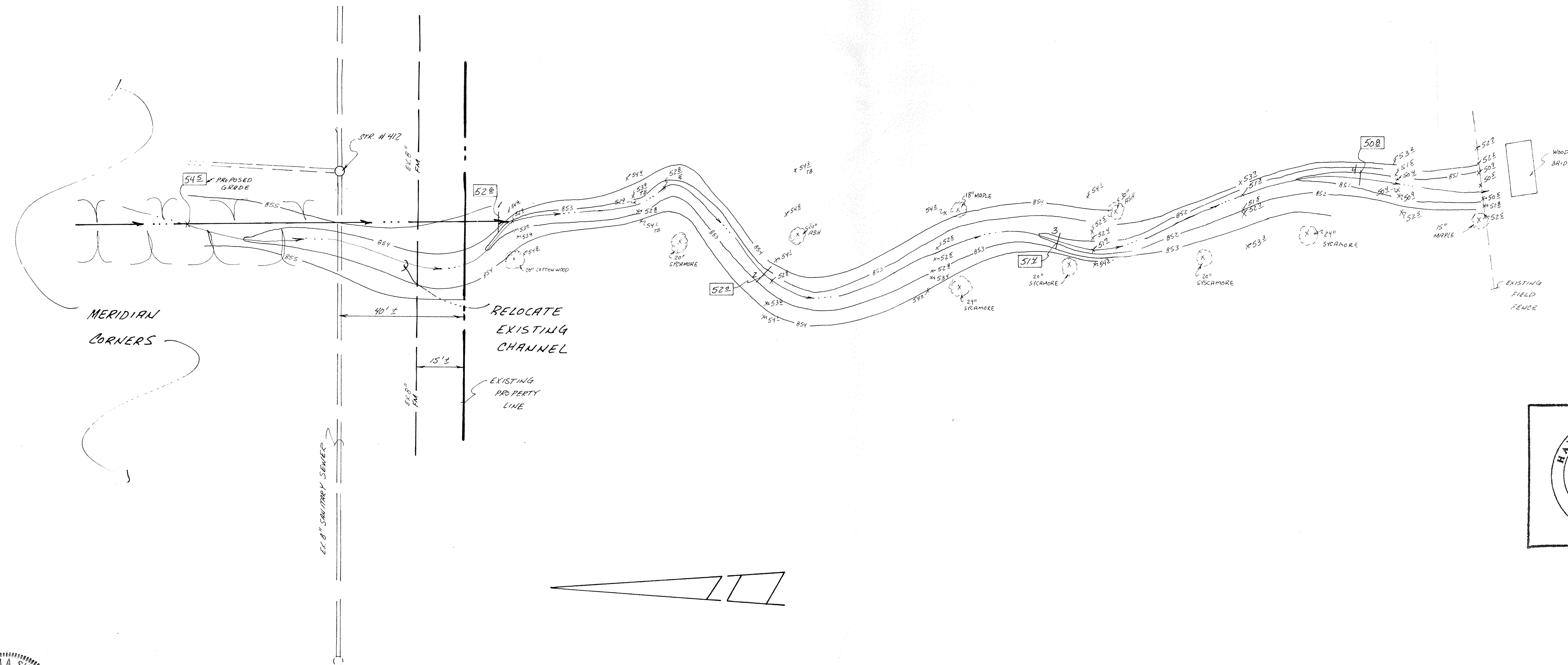
TECH. CHK.	DRAWN BY	SCALE	DATE	CLIENT
DFTNG. CHK.	DRAWING TITLE	NONE	8/19/88	MERIDIAN CORNERS - PHASE - 2
SPECIFICATIONS				


DWG. TYPE	FILE NUMBER	SHEET
		13
JOB NUMBER		OF 14
79205	90000	

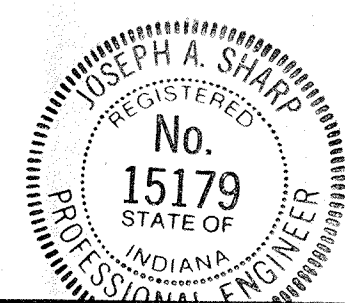


TYPICAL CROSS SECTION

NO SCALE

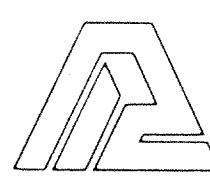



 This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS.
 Entry Date: 11-19-03
 Entered by: *[Signature]*



CERTIFIED BY
Joseph A. Sharp
 9.2.88 DATE

REVISIONS


PAUL I. CRIFE, INC.
 7172 GRAHAM ROAD
 INDIANAPOLIS, INDIANA 46250
 (317) 842-6777

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- LAND PLANNING

TECH. CHK. J. S.	DRAWN BY D. S.	SCALE HORIZ. 1"=20' VERT. 1"=2'	DATE 8/17/00	CLIENT MERIDIAN CORNERS PHASE - II	DWG. TYPE	FILE NUMBER	SHEET
DFTNG. CHK.	DRAWING TITLE OFFSITE DRAINAGE IMPROVEMENTS	JOB NUMBER 79205-90000		14		OF 14	

FILED
 SEP 1 1988
 HAMILTON COUNTY SURVEYOR



Kenton C. Ward, CFM
 Surveyor of Hamilton County
 Phone (317) 776-8495
 Fax (317) 776-9628

Suite 188
 One Hamilton County Square
 Noblesville, Indiana 46060-2230

Map Correction-Field Verification

Drain Number: 88

Drain Length: 4945

Drain Name: JRCollins #1: Meridian Corners Change +/-: -259
 Phase I - Hamilton
 King Phase II

Date: 5-28-2010


New Length: 4686

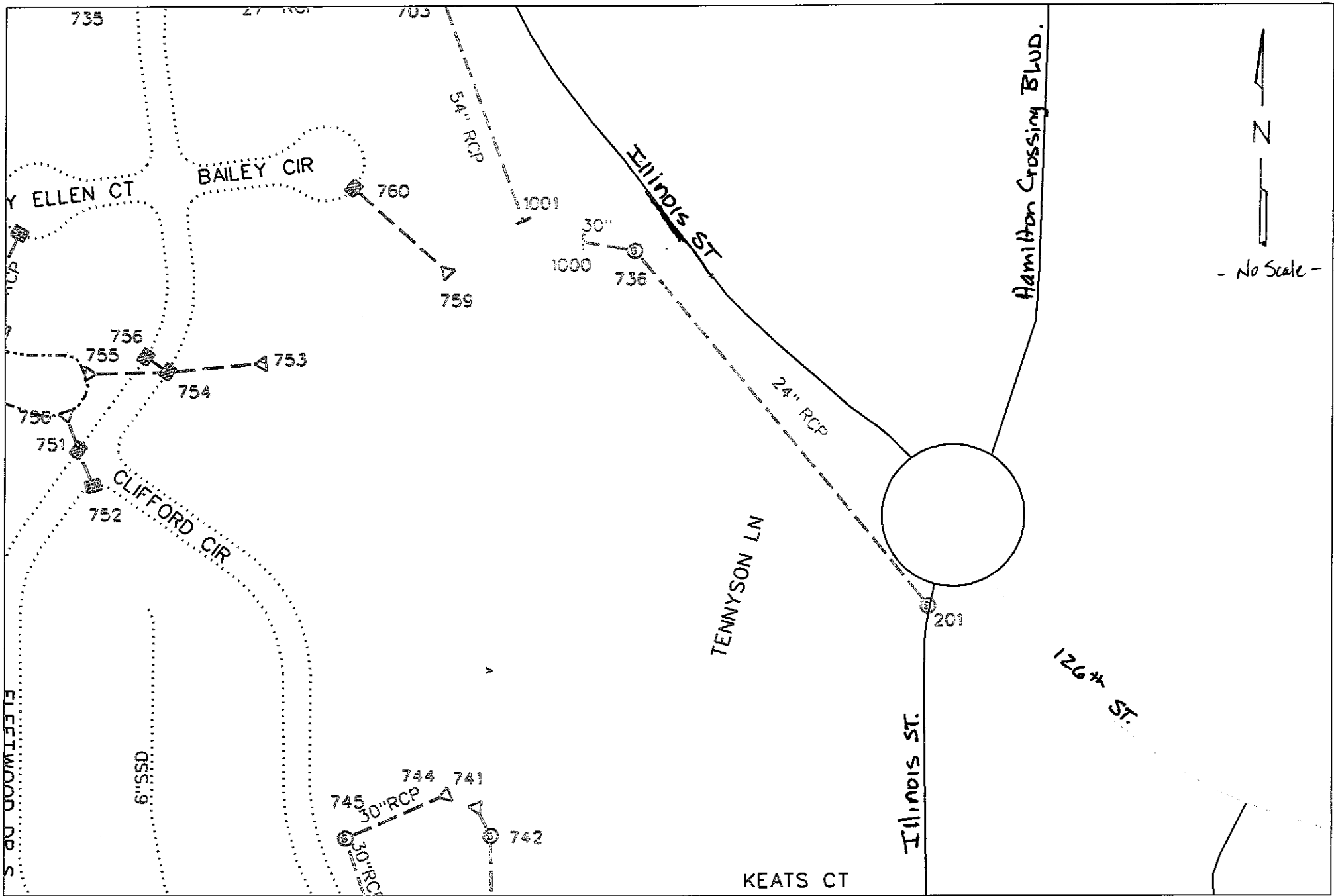
Verified By: SLM

City of Carmel / ACE proj. # 05-01

Notes & Sketch: See attached Map.

Pipe & Structures were removed with the Illinois Street Improvements done by the City of Carmel. Drain was removed between the following Structures: 717-716, 716-737, End pipe - 717, 714-713, 713-736. Structure 737 was replaced by structure 201 & 8' of 18" RCP was added. Also it should be noted that there is a correction of footage in this report as well.


 Suzanne L. Mills
 GIS Specialist



reg_drain_hc.dgn 5/28/2010 10:12:49 AM