

Drain: SUTTON PLACE DRAIN Drain #: 244

Improvement/Arm: SUTTON PLACE - SECTION 1

Operator: JDH Date: 6-3-04

Drain Classification: Urban/Rural Year Installed: 1993

### GIS Drain Input Checklist

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

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

Drain-Improvement: SUTTON PLACE DRAIN - SUTTON PLACE - SECTION 2

Drain Type:	Size:	Length <small>SURVEYOR REPORT</small>	Length (DB Query)	Length Reconcile	If Applicable	
					Price:	Cost:
SSD	6"	3015'	3015'	∅		
RCP	12"	1875	1896	+21'		
	15"	30'	27'	-3'		
	18"	1511'	1510'	-1'		
	21"	350'	350'	∅		
	24"	461'	431'	-30'		
	27"	1152	1126'	-26'		
	36"	874	874'	∅		
CMP	12"	30'	30'	∅		
	18"	30'	30'	∅		
	48"	50'	50'	∅		
OPEN DITCH		500'	500'	∅		

Sum:      9904'      9841'      -19'

Final Report: \_\_\_\_\_

Comments:

SR AND AB DISAGREE ON 12", 15", 18", 24", AND 27" RCP LENGTHS

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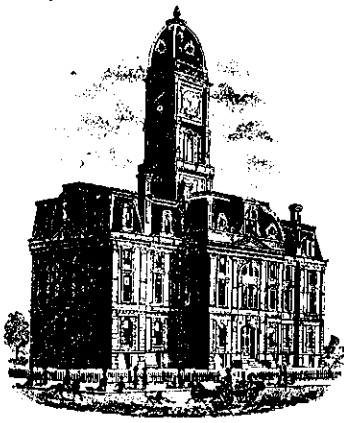
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SURVEYOR'S OFFICE

# Hamilton County

Kenton C. Ward, Surveyor

776-9626

942 Maple Avenue

Noblesville, Indiana 46060

February 15, 1991

TO: Hamilton County Drainage Board

RE: Sutton Place Drain

Attached is a petition, non-enforcement request, plans, calculations, quantity summary and assessment roll for the Sutton Place Drain .

I have reviewed the submittals and petition and 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 benefitted. The drain consists of the following:

6" SSD	2870ft	12" RCP	1890ft	18" CMP	30ft
12" CMP	30ft	15" RCP	30ft	18" RCP	1508ft

21" RCP	355ft	36" RCP	878ft
24" RCP	457ft	48" CMP	50ft
27" RCP	1143ft	Open Ditch	500ft

The total length of the drain will be 9741 feet.

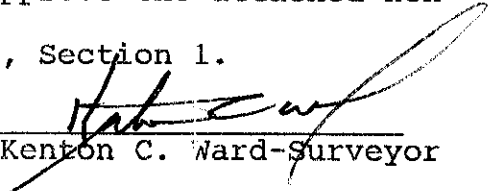
The above length includes offsite drainage facilities located in Crooked Stick West (Aka Executive Estates). These include the 48" pipe under Burning Tree Lane and its inlets and the North-South Ditch on Lots 59,60,41 and 42. Also included are the 12" CMP at Lot 5 and the 18" CMP at Lot 77 under Towne Road. The SSD included in the above figure are those sections.

I have reviewed the plans and believe the drain will benefit each lot equally. I recommend a maintenance assessment of \$25.00 per lot and Common Area , \$5.00 per acre for roadways, with a \$25.00 minimum. With this assessment the total annual assessment for the drain/this section will be \$ 2280<sup>52</sup>.

The retention pond located within the Common Area is not to be considered part of the regulated drain. Only the inlet and outlet will be maintained as part of the regulated drain. The maintenance of the lake will be the responsibility of the Howmeowners Association.

I recommend a hearing be set for April 1991, if approved at the hearing, I recommend the Board approve the attached non-enforcement request for Sutton Place, Section 1.

KCW/no

  
Kenton C. Ward-Surveyor



CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Sutton Place Drain - Section 1 Arm

I hereby certify that:

1. I am a Registered Land Surveyor or Engineer in the State of Indiana.
2. I am familiar with the plans and specifications for the above referenced subdivision.
3. I have personally observed and supervised the completion of the drainage facilities for the above referenced subdivision.
4. The drainage facilities within the above referenced subdivision to the best of my knowledge, information and belief have been installed and conformity with all plans and specifications.

Signature: Arthur L. Kaser Date: November 10, 1995

Type of Print Name: Arthur L. Kaser

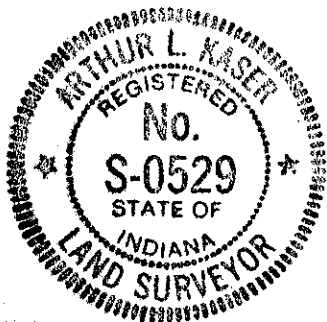
Business Address: Evergreen Planners, Inc.

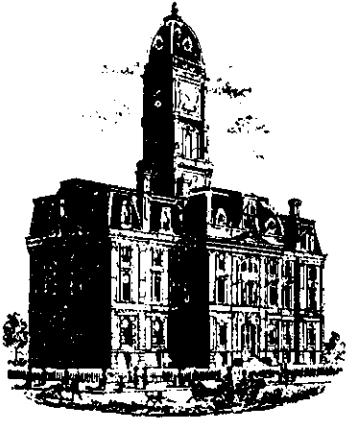
234 S. Franklin Road, Indianapolis, IN 46219

Telephone Number: 317-353-6161

INDIANA REGISTRATION NUMBER

S-0529





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*

To: Hamilton County Drainage Board

August 15, 1997

**Re: Sutton Place Drain - Sutton Place Section 1**

Attached are as-builts, certificate of completion & compliance, and other information for Sutton Place Section 1. 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 February 15, 1991. The changes are as follows:

- Str.145-146 12"RCP shortened from 48' feet to 43' feet.
- Str.146-147 12"RCP lengthened from 32' feet to 38' feet.
- Str.133-134 12"RCP shortened from 35' feet to 34' feet.
- Str.122-123 12"RCP lengthened from 35' feet to 38' feet.
- Str.131-132 36"RCP lengthened from 145' feet to 151' feet.
- Str.132-135 36"RCP shortened from 280' feet to 269' feet.
- Str.135-136 36"RCP shortened from 215' feet to 214' feet.
- Str.136-137 36"RCP lengthened from 28' feet to 29' feet.
- Str.137-138 36"RCP lengthened from 70' feet to 71' feet.
- Str.139-151 27"RCP lengthened from 185' feet to 186' feet.
- Str.116-117 24"RCP lengthened from 160' feet to 161' feet.
- Str.117-120 24"RCP lengthened from 210' feet to 205' feet.
- Str.120-121 21"RCP shortened from 215' feet to 209' feet.
- Str.121-122 21"RCP lengthened from 140' feet to 141' feet.
- Str.122-124 18"RCP lengthened from 32' feet to 36' feet.
- Str.124-125 18"RCP shortened from 260' feet to 249' feet.
- Str.125-127 18"RCP lengthened from 390' feet to 400' feet.
- Str.114-113 12"RCP shortened from 40' feet to 36' feet.
- Str.101-102 18"RCP shortened from 135' feet to 130' feet.
- Str.102-103 18"RCP shortened from 75' feet to 71' feet.
- Str.103-104 18"RCP lengthened from 24' feet to 25' feet.
- Str.104-105 18"RCP lengthened from 162' feet to 163' feet.
- Str.105-107 12"RCP shortened from 160' feet to 154' feet.

Str.107-108 12"RCP lengthened from 26' feet to 30' feet.  
Str.108-109 12"RCP shortened from 70' feet to 62' feet.  
Str.109-110 12"RCP lengthened from 140' feet to 143' feet.  
Str.142-142A 27"RCP at 13' feet was added during the construction process.  
Str.142A-145 27"RCP shortened from 270' feet to 266' feet.  
Str.145-148 24"RCP lengthened from 52' feet to 60' feet.  
Str.149-150 18"RCP lengthened from 35' feet to 37' feet.  
Str.150-ext. 18"RCP lengthened from 30' feet to 35' feet.  
Str.139-140 27"RCP lengthened from 160' feet to 162' feet.  
Str.140-141 27"RCP shortened from 176' feet to 173' feet.  
Str.142A-143 12"RCP shortened from 185' feet to 174' feet.  
Str.143-144 12"RCP shortened from 325' feet to 322' feet.  
Str.144-ext. 12"RCP lengthened from 30' feet to 35' feet.  
Two structures were placed in the rear of lot 37. This resulted in an additional 32' of 12"RCP.  
The corrected total of 6"SSD is 3015' feet.

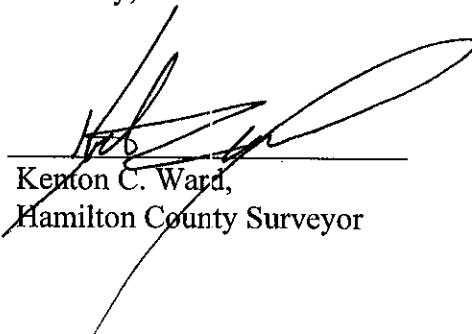
The length of the drain due to the changes described above is now **9,904 feet**.

The non-enforcement was approved by the Board at its meeting on February 19, 1991.

The bond or letter of credit from INB, number ammendment to SB035325; dated January 11, 1993; in the amount of \$234,000.00, has expired.

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

Sincerely,



Kenton C. Ward,  
Hamilton County Surveyor

KCW/slm



# SUTTON PLACE

## SECTION 1

### CONSTRUCTION RECORD DRAWING STORM

### CLAY TOWNSHIP HAMILTON COUNTY, INDIANA

Developer:

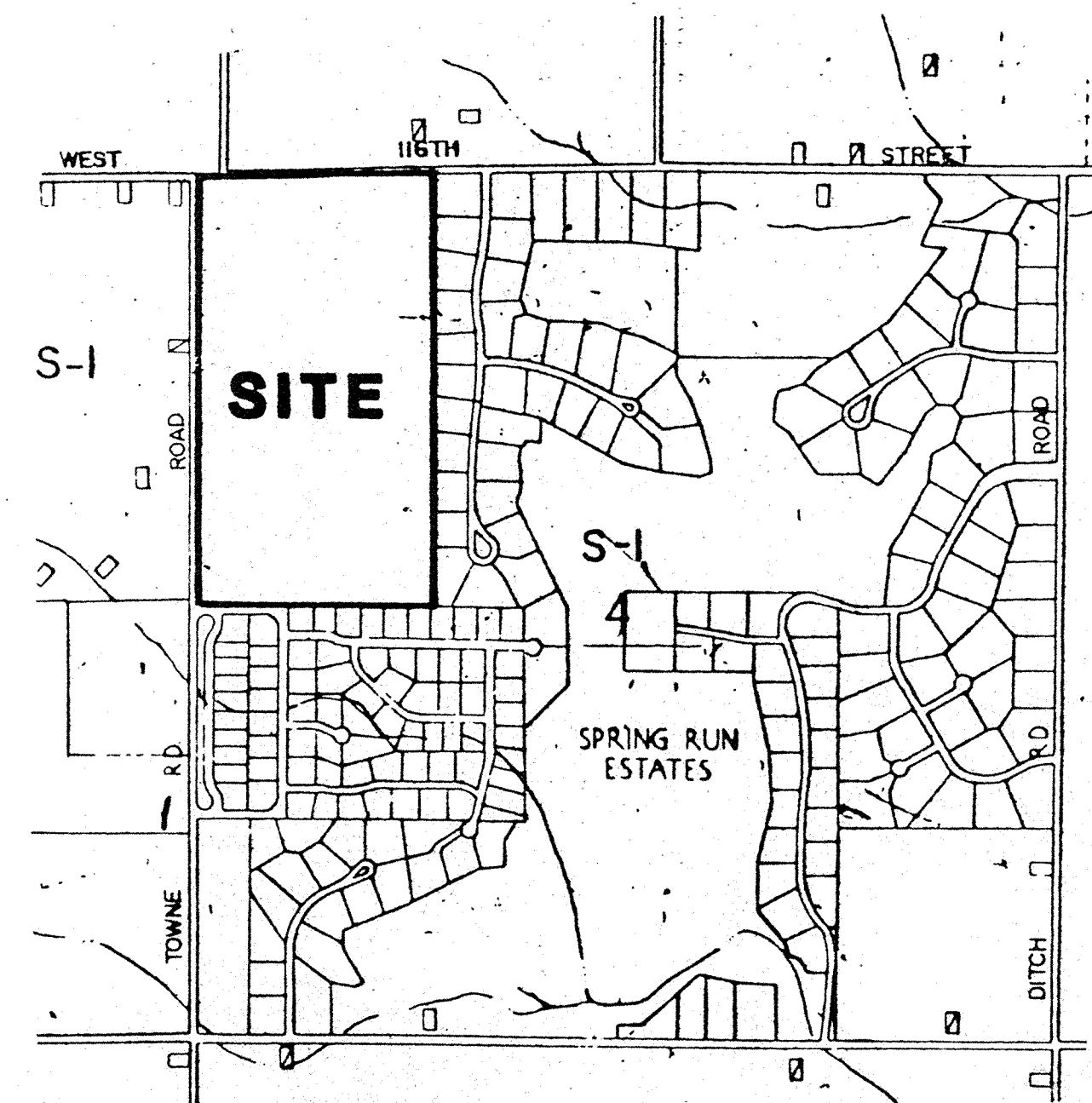
**LAND INNOVATORS**

234 SOUTH FRANKLIN ROAD  
INDIANAPOLIS, INDIANA 46219  
(317) 576-5656

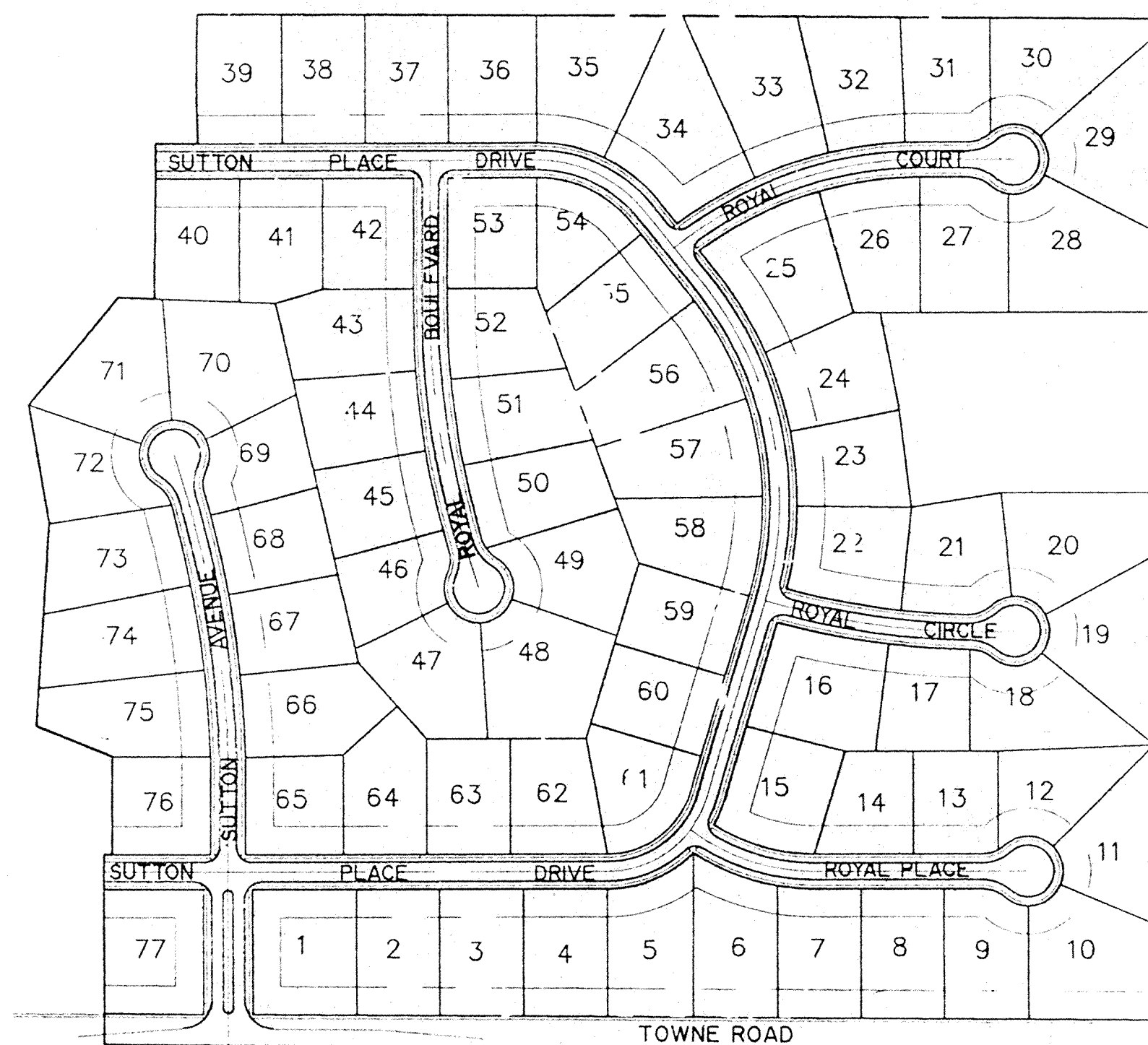
Engineer:

**SCHNEIDER ENGINEERING CORP.**

3020 NORTH POST ROAD  
INDIANAPOLIS, INDIANA 46226  
(317) 898-8282



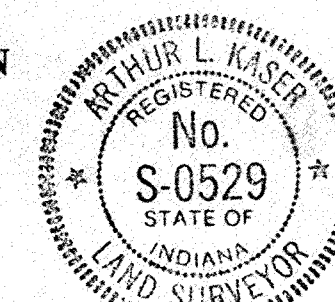
**AREA MAP**  
NOT TO SCALE



**SITE MAP**  
SCALE: 1"=200'

**"RECORD DRAWING" CERTIFICATION**

CERTIFIED BY: Arthur L. Kaser 11/10/95  
Arthur L. Kaser, P.L.S.  
Evergreen Planners, Inc.  
234 South Franklin Road  
Indianapolis, IN 46219



I, the above signed, certify that the record drawing information presented on this sheet was performed under my direct supervision. I further certify that to the best of my knowledge and belief that the improvements have been installed in reasonable compliance with the original design plans with respect to horizontal locations and grades and any deviations of locations, grade or material used are shown in these "RECORD CONSTRUCTION DRAWINGS" (plans) as of the date of this certification.

The base information for these record drawings was prepared by EVERGREEN PLANNERS, INC.

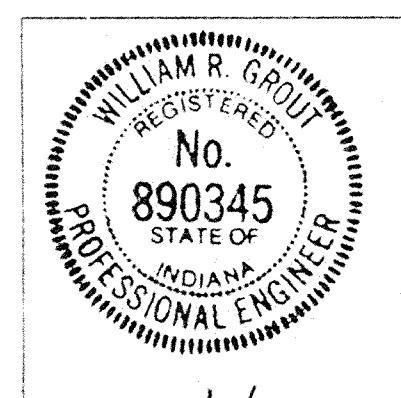
**INDEX**

SHEET No.	DESCRIPTION
S-1	TITLE SHEET
S-2-S-3	TOPOGRAPHY/LAND DESCRIPTION
S-4-S-5	DEVELOPMENT PLAN & HORIZ. STORM AS BUILTS
S-6-S-7	EROSION CONTROL PLAN
S-8	ENTRANCE PLAN
S-9-S-12	STREET PLAN
S-13-S-15	SANITARY SEWER PLAN
S-17-S-21	STORM SEWER PLAN & VERT. STORM AS BUILTS
S-22	GUL-DE-SAC DETAILS
S-22A	WATER DISTRIBUTION SYSTEM
S-23-S-24	GENERAL DETAILS
S-25-S-26	SPECIFICATIONS
S-4A-S5A	SUB-SURFACE STUB-OUTS AS BUILTS

PRINTED  
OCT - 6 1994  
SCHNEIDER ENGINEERING CORP.

 Schneider Engineering Corporation  
CIVIL ENGINEERS — LAND SURVEYORS

3020 NORTH POST ROAD  
INDIANAPOLIS, INDIANA 46226-6518  
(317) 898-8282



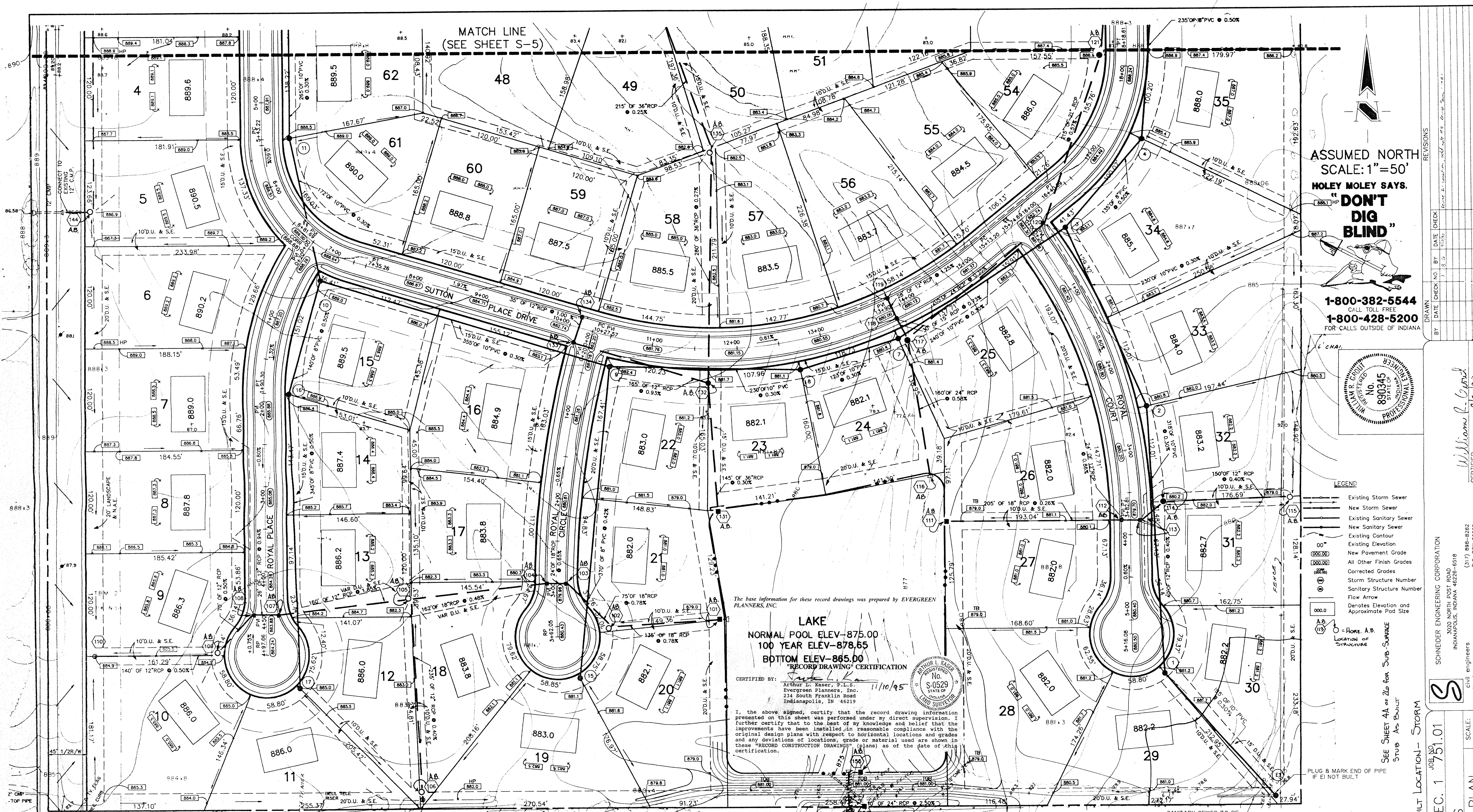
CERTIFIED BY: William R. Groat  
WILLIAM R. GROAT

DATE: 8/24/90

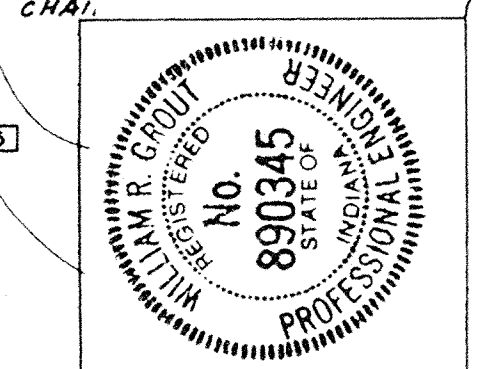
**FILED**

JUN 23 1997 SHEET  
OFFICE OF HAMILTON COUNTY SURVEYORS

(JOB NO. 751.01)



ASSUMED NORTH  
SCALE: 1"=50'  
HOLEY MOLEY SAYS.  
"DON'T  
DIG  
BLIND"  
1-800-382-5544  
CALL TOLL FREE  
1-800-428-5200  
FOR CALLS OUTSIDE OF INDIANA



- LEGEND
- Existing Storm Sewer
  - New Storm Sewer
  - Existing Sanitary Sewer
  - New Sanitary Sewer
  - Existing Contour
  - Existing Elevation
  - New Pavement Grade
  - Corrected Grades
  - Storm Structure Number
  - Sanitary Structure Number
  - Flow Arrow
  - Denotes Elevation and Approximate Pod Size
  - 00' = Horiz. A.B.
  - Location of Structure
  - PLUG & MARK END OF PIPE IF NOT BUILT

LAKE  
NORMAL POOL ELEV-875.00  
100 YEAR ELEV-878.65  
BOTTOM ELEV-865.00  
"RECORD DRAWING" CERTIFICATION

CERTIFIED BY:  
Arthur L. Kaser, P.L.S.  
Evergreen Planners, Inc.  
234 South Franklin Road  
Indianapolis, IN 46219

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- GENERAL NOTES:
- ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
  - IT SHALL BE THE RESPONSIBILITY OF EACH SUBCONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO HIS PHASE OF WORK. IT SHALL ALSO BE THE SUBCONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATION OF EACH UTILITY BEFORE WORK IS STARTED. THE SUBCONTRACTOR SHALL NOTIFY IN WRITING THE OWNER AND THE ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN FIELD BEFORE WORK IS STARTED OR RESUMED.
  - STANDARD SPECIFICATIONS FOR THE CITY OF CARMEL, INDIANA SHALL APPLY FOR ALL STORM SEWERS.
  - ANY PART OF THE SANITARY OR STORM SEWER TRENCHES RUNNING UNDER PAVED AREAS TO BE BACKFILLED WITH GRANULAR MATERIAL.
  - THE SIZE AND LOCATION OF EXISTING UTILITIES SHOWN ARE PER INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES. ALL UTILITY COMPANIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION FOR FIELD LOCATION OF SERVICES.
  - TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
  - ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
  - CONTRACTOR SHALL MINIMIZE DAMAGE TO EXISTING TREES.
  - STANDARD SPECS. FOR THE CLAY TWP. REGIONAL WASTE DISTRICT SHALL APPLY FOR ALL SANITARY SEWERS.

① SANITARY SEWER TABLE

STR #	STA	BASE LINE	OFFSET	LT/RT	TYPE	TC	INVERTS
E1	5+61.73	F	38.93'	LT	MANHOLE	881.40	887.05 (N), 866.95 (SE)
1	2+55.00	F	35.00'	LT	MANHOLE	881.00	868.01 (S), 868.11 (N)
2	16+08.35	A	40.00'	RT	MANHOLE	883.30	869.80 (SW), 869.00 (NE)
3	17+29.54	A	40.00'	RT	MANHOLE	885.60	869.68 (SW), 869.78 (N)
7	13+82.05	A	35.22'	RT	MANHOLE	880.60	870.02 (NE), 870.12 (SW)
8	12+68.97	A	34.65'	RT	MANHOLE	881.30	870.49 (NE), 870.59 (W)
9	10+56.14	A	35.00'	RT	MANHOLE	882.60	871.38 (S), 871.38 (W)
10	7+09.37	A	35.00'	RT	MANHOLE	889.20	874.35 (S), 872.45 (E)
11	5+41.87	A	32.50'	LT	MANHOLE	888.70	873.17 (N), 873.07 (SE)
15	4+12.76	A	22.53'	LT	MANHOLE	881.30	872.93
16	1+91.55	D	29.18'	LT	MANHOLE	886.60	875.05 (N), 875.15 (S)
17	5+36.11	D	38.73'	LT	MANHOLE	885.20	876.87

② STORM SEWER TABLE

STR #	STA	BASE LINE	OFFSET	LT/RT	TYPE	TC	INVERTS
101	3+49.86	E	199.05'	LT	END SECTION	874.90	
102	3+53.30	E	64.44'	LT	MANHOLE	881.20	875.96 (E), 875.96 (NW)
103	3+00.00	E	13.32'	LT	CURB INLET	879.76	876.55 (SE), 876.55 (W)
104	3+00.00	E	13.03'	LT	CURB INLET	879.76	876.71 (E), 876.86 (SW)
105	4+33.27	D	171.60'	LT	BEEHIVE	882.10	877.64 (E), 878.14 (S)
106	6+67.66	D	182.62'	LT	BEEHIVE	881.50	879.08
107	4+50.00	D	16.01'	LT	CURB INLET	883.88	881.10 (E), 881.10 (W)
108	4+50.00	D	16.01'	RT	CURB INLET	883.88	881.35 (E), 881.35 (SW)
109	4+97.86	D	60.00'	RT	MANHOLE	884.90	881.70 (NE), 881.70 (W)
110	4+97.86	D	201.42'	RT	BEEHIVE	884.90	882.40
111	3+82.81	F	218.04'	RT	END SECTION	875.00	
112	3+82.81	F	13.00'	RT	CURB INLET	879.70	875.53 (W), 876.03 (E)
113	3+82.81	F	13.00'	LT	CURB INLET	879.70	876.24 (W), 876.24 (NE)
114	3+62.14	F	39.66'	LT	MANHOLE	880.40	876.40 (SW), 876.40 (E)

③ SANITARY SEWER TO BE BUILT BY C.T.R.W.D.

STR #	STA	BASE LINE	OFFSET	LT/RT	TYPE	TC	INVERTS
115	3+62.24	F	191.68'	LT	BEEHIVE	879.00	877.00
116	13+58.52	A	196.58'	RT	END SECTION	875.00	
117	13+91.18	A	40.00'	RT	MANHOLE	880.60	875.92 (SE), 875.92 (NW)
118	13+90.00	A	15.00'	RT	CURB INLET	880.00	876.90 (SE), 877.15 (NW)
119	13+90.00	A	15.00'	LT	CURB INLET	880.00	877.50
120	15+92.73	A	20.65'	RT	CURB INLET	881.88	876.64 (SW), 876.89 (NE)
121	11+74.87	A	188.47'	RT	HEADWALL		874.69
132	11+74.87	A	40.05'	RT	MANHOLE	881.90	875.13 (S), 877.13 (NW)
133	10+19.65	E	19.40'	RT	CURB INLET	881.78	878.65 (SE), 878.65 (NE)
134	10+12.00	A	15.00'	LT	CURB INLET	882.50	879.00
135	11+70.50	A	234.99'	LT	BEEHIVE	882.50	875.89 (S), 875.89 (NW)
154	12+46.93	A	54.42'	RT	END SECTION	874.00	
155	12+49.85	A	508.88'	RT	END SECTION	875.00	
156	12+78.66	A	207.72'	RT	BEEHIVE	886.90	884.40 (N), 884.40 (W)

- UTILITIES
- GAS: Indiana Gas Company, 15900 Alameda Road, Noblesville, IN 46066, (317) 773-0430
  - ELECTRIC: Indiana Power and Light Co., Monument Circle, Indianapolis, Indiana 46202, 261-8296
  - Cable Television: Hamilton County Drainage, 518 East Cornell Drive, Indianapolis, Indiana 46202, (317) 844-8077
  - Sanitary Sewer: City of Carmel, 1717 East Pleasant, Noblesville, IN 46060, (317) 844-8000
  - Water: Hamilton County Water Company, 1220 Wiley Boulevard, Indianapolis, Indiana 46202, (317) 639-1501 ext.222
  - TELEPHONE: Indiana Bell Telephone Co., 5850 College Avenue, Indianapolis, Indiana 46206, 261-5676 or 1-800-362-5544
  - Storm Sewer: Hamilton County Drainage, Hamilton County Surveyor's Office, 942 Main Street, Carmel, IN 46032, (317) 776-8626
  - Streets: Hamilton Co. Highway Dept., 1717 East Pleasant, Noblesville, IN 46060, (317) 776-8626
- NOTE: The size and location of utilities shown on these plans and locations provided by the respective utility companies. All utility companies should be notified prior to any excavation for field location of services.

REVISIONS

NO.	DATE	BY	DESCRIPTION
1	11/10/95	W.R.C.	ISSUED FOR PERMIT

PROJECT: SUTTON PLACE SEC. 1 751.01  
JOB NO. 751.01  
PREPARED FOR: LAND INNOVATORS  
TITLE: DEVELOPMENT PLAN

SEE SHEET 4A OF 26 FOR SUB-SURFACE STUB AS-BUILT

SCALE: 1"=50'

FILED 1997 JUN 26

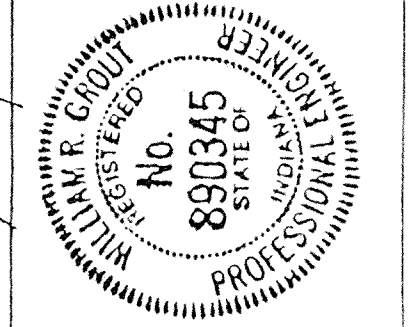
OFFICE OF HAMILTON COUNTY SURVEYOR

William R. Conrad  
Professional Engineer  
No. 890345  
State of Indiana

MATCH LINE  
(SEE SHEET S-5)

ASSUMED NORTH  
SCALE: 1"=50'  
HOLEY MOLEY SAYS,  
"DON'T  
DIG  
BLIND"

1-800-382-5544  
CALL TOLL FREE  
1-800-428-5200  
FOR CALLS OUTSIDE OF INDIANA



- LEGEND
- Existing Storm Sewer
  - New Storm Sewer
  - Existing Sanitary Sewer
  - New Sanitary Sewer
  - Existing Contour
  - Existing Elevation
  - New Payment Grade
  - All Other Finish Grades
  - Corrected Grades
  - Storm Structure Number
  - Sanitary Structure Number
  - Flow Arrows
  - Denotes Elevation and Approximate Pad Size
  - As Built Sub-Surface Tee Location

LAKE  
NORMAL POOL ELEV-875.00  
100 YEAR ELEV-878.65  
BOTTOM ELEV-865.00  
"RECORD DRAWING" CERTIFICATION

CERTIFIED BY:  
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- ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
- CONTRACTOR SHALL MINIMIZE DAMAGE TO EXISTING TREES.
- STANDARD SPECS. FOR THE CLAY TWP. REGIONAL WASTE DISTRICT SHALL APPLY FOR ALL SANITARY SEWERS.

MANHOLE MARKS

BM TOP OF EXISTING SANITARY MANHOLE APPROXIMATELY 350' EAST OF TOPE ROAD AND 40' SOUTH OF 116TH STREET ELEV-893.54

TBM P.K. NAIL IN POWERPOLE #71013 LOCATED APPROXIMATELY 495' SOUTH OF 116TH STREET ALONG EAST SIDE OF TOPE ROAD. ELEV-894.14

SIR #	STA	BASE LINE	OFFSET	LT/RT	TYPE	IC	INVERTS
E1					MANHOLE	881.40	EXIST INV-865.00 NEW INV-866.38(NW)
1	5+61.73	F	38.93'	LT	MANHOLE	881.40	867.05 (N), 866.95 (SE)
2	2+55.00	F	35.00'	LT	MANHOLE	881.00	868.01 (S), 868.11 (N)
3	16+08.35	A	40.00'	RT	MANHOLE	883.30	869.50 (SE), 869.00 (NE)
4	17+29.54	A	40.00'	RT	MANHOLE	885.60	869.68 (SW), 869.78 (N)
7	13+82.05	A	35.22'	RT	MANHOLE	880.60	870.02 (NE), 870.12 (SW)
8	12+68.97	A	34.65'	RT	MANHOLE	881.30	870.49 (NE), 870.59 (W)
9	10+56.14	A	35.00'	RT	MANHOLE	882.60	871.36 (S), 871.36 (W) 874.55 (E), 872.45 (E)
10	7+09.37	A	35.00'	RT	MANHOLE	889.20	872.55 (NW)
11	5+41.57	A	32.50'	LT	MANHOLE	888.70	873.17 (N), 873.07 (SE)
15	4+11.78	A	22.53'	LT	MANHOLE	881.30	872.55 (NW)
16	1+91.55	D	29.18'	LT	MANHOLE	888.60	875.05 (N), 875.15 (S)
17	5+36.11	D	38.73'	LT	MANHOLE	885.20	876.87

SANITARY SEWER TABLE

SIR #	STA	BASE LINE	OFFSET	LT/RT	TYPE	IC	INVERTS
101	3+49.88	E	199.05'	LT	END SECTION	874.90	
102	3+53.30	E	64.44'	LT	MANHOLE	881.20	875.96 (E), 875.96 (NW)
103	3+00.00	E	13.32'	LT	CURB INLET	879.78	876.55 (SE), 876.55 (W)
104	3+00.00	E	13.03'	LT	CURB INLET	879.78	876.71 (E), 876.86 (SW)
105	4+33.27	D	171.60'	RT	BEEHIVE	882.10	877.64 (E), 878.14 (S)
106	6+67.66	D	182.62'	LT	BEEHIVE	881.50	879.08
107	4+50.00	D	16.01'	LT	CURB INLET	883.88	881.10 (T), 891.10 (W)
108	4+50.00	D	16.01'	RT	CURB INLET	883.88	881.35 (E), 891.35 (SW)
109	4+97.86	D	60.00'	RT	MANHOLE	884.90	881.70 (E), 881.70 (W)
110	4+97.11	D	201.42'	RT	BEEHIVE	884.90	882.40
111	3+82.81	F	218.04'	RT	END SECTION	875.00	
112	3+82.81	F	13.00'	RT	CURB INLET	879.70	875.53 (W), 876.03 (E)
113	3+82.81	F	13.00'	LT	CURB INLET	879.70	876.24 (E), 876.21 (NE)
114	3+62.14	F	39.66'	LT	MANHOLE	884.90	876.40 (SW)

STORM SEWER TABLE

SIR #	STA	BASE LINE	OFFSET	LT/RT	TYPE	IC	INVERTS
115	3+62.24	F	191.68'	LT	BEEHIVE	879.00	877.00
116	13+58.52	A	196.58'	RT	END SECTION	875.00	
117	13+91.18	A	40.00'	RT	MANHOLE	880.60	875.97 (SE), 876.68 (NW)
118	13+30.00	A	15.00'	RT	CURB INLET	880.00	876.90 (SE), 877.15 (NW)
119	13+30.00	A	15.00'	LT	CURB INLET	880.00	877.50
120	15+92.73	A	20.65'	RT	CURB INLET	881.88	876.84 (SW), 876.89 (NE)
131	11+74.37	A	188.47'	RT	HEADWALL		874.69
132	11+68.04	A	40.05'	RT	MANHOLE	881.90	875.13 (S), 877.13 (NW)
133	10+19.65	E	4.40'	RT	CURB INLET	881.78	876.65 (SE), 876.65 (NE)
134	10+12.00	A	7.50'	LT	CURB INLET	882.50	879.00
135	11+70.50	A	234.99'	LT	BEEHIVE	882.50	875.89 (S), 875.89 (NW)
136	548.42'	RT		END SECTION		874.00	
137	508.88'	RT		END SECTION		875.00	
138	884.40(N) 884.40(W)						

- UTILITIES
- Gas: Indiana Gas Company, 15900 Alameda Road, Indianapolis, Indiana 46206, (317) 773-0400
  - Electric: Indiana Gas and Light Co., 5600 Coliseum Avenue, Indianapolis, Indiana 46206, (317) 944-8277
  - Water: WATA, Indianapolis Water Company, 1220 Waterbury Boulevard, Indianapolis, Indiana 46202, (317) 639-1201 ext.222
  - Sanitary Sewer: Public Works District, 1717 East Madison, Indianapolis, Indiana 46202, (317) 773-7770
  - Storm Sewer: Public Works District, 1717 East Madison, Indianapolis, Indiana 46202, (317) 773-7770
- NOTE: The size and location of utilities shown are per plans and field notes. All utility companies should be notified prior to any excavation. This location of utilities.

REVISIONS

NO.	DATE	BY	DATE	CHECK
1	11/10/95	AK		

PROJECT: SUTTON PLACE SEC. 1 408 NO. 1751.01  
TITLE: LAND INNOVATORS DEVELOPMENT PLAN  
SCALE: AS BUILT LOCATION SUB-SURFACE TIEES

OFFICE OF HAMILTON COUNTY SURVEYOR

**SANITARY SEWER TABLE**

STR #	STA	BASE LINE	OFFSET	LT/RT	TYPE	TC	INVERTS
5	19+46.09	A	35.00'	RT	MANHOLE	886.70	872.25(N), 870.96(S)
6	23+10.20	A	32.43'	RT	MANHOLE	888.80	875.05(N), 874.95(S)
12	2+75.00	A	32.50'	LT	MANHOLE	887.20	874.07(N), 873.97(S)
13	2+80.46	A	30.00'	RT	MANHOLE	885.70	874.90(N), 874.80(S)
14	3+25.00	A	32.24'	RT	MANHOLE	888.30	875.97(S), 876.07(STUB N)
18	4+41.08	G	30.00'	LT	MANHOLE	886.20	873.20(E), 873.40(W)
19	6+54.74	C	42.65'	LT	MANHOLE	885.80	874.35(E)
20	6+43.10	C	35.00'	RT	MANHOLE	888.90	877.56(W), 879.46(E)
21	9+16.56	C	17.22'	RT	MANHOLE	892.20	883.66(W)

**STORM SEWER TABLE**

STR #	STA	BASE LINE	OFFSET	LT/RT	TYPE	TC	INVERTS
121	18+15.67	A	30.00'	LT	MANHOLE	887.10	878.12(N&S)
122	0+20.00	G	19.77'	LT	CURB INLET	885.47	878.92(S), 879.17(N)
123	19+68.89	A	15.00'	RT	CURB INLET	885.89	881.52
124	0+20.00	G	19.77'	RT	CURB INLET	885.47	879.43(N&S)
125	22+46.39	A	40.00'	LT	MANHOLE	888.40	882.58(W), 880.68(N&S)
126	22+49.11	A	197.85'	LT	BEEHIVE	889.70	886.70(E)
127	26+30.91	A	20.77'	LT	CURB INLET	887.74	882.28, 882.53(STUB N)
136	5+70.10	G	15.74'	LT	CURB INLET	884.84	876.43(N&S)
137	5+70.10	G	14.96'	RT	CURB INLET	884.84	876.50(NW&S)
138	6+23.63	G	57.34'	RT	MANHOLE	885.80	876.67(SE&N)
139	6+49.20	G	195.93'	RT	BEEHIVE	885.00	878.33(N), 877.55(SW)
140	2+90.05	A	187.71'	LT	BEEHIVE	884.70	878.21(W&E)
141	2+95.00	A	15.00'	RT	CURB INLET	886.67	878.87(E&W)
142	2+95.00	A	15.00'	LT	CURB INLET	886.67	880.23(W), 878.98(N)
143	3+03.27	A	195.30'	RT	BEEHIVE	887.70	882.77(E&S)
145	2+25.00	C	30.70'	RT	CURB INLET	884.62	879.85(S), 880.10(N)
146	2+80.46	C	30.00'	RT	CURB INLET	884.62	881.87(N&W)
147	2+68.00	C	19.73'	LT	CURB INLET	884.62	882.12(S)
148	2+25.00	C	30.70'	LT	CURB INLET	884.62	880.80(W), 880.30(S)
149	0+65.36	C	50.00'	LT	MANHOLE	890.40	883.36(E&W)
150	0+55.60	C	82.00'	LT	BEEHIVE	887.00	883.92(SE&W)
151	5+35.00	C	13.00'	RT	CURB INLET	887.09	879.00(N&S)
152	5+35.00	C	13.00'	LT	CURB INLET	887.09	879.08(N&S)
153	5+19.01	C	312.67'	LT	BEEHIVE	888.50	879.98(S), 880.76(NW)

**GAS**  
Indiana Gas Company  
15900 Allisonville Road  
Noblesville, IN 46060  
(317) 773-0430

**ELECTRIC**  
Indpls. Power and Light Co.  
Monument Circle  
Indianapolis, Indiana 46206  
261-8296

Cable Television  
Jones Interchange  
516 East Carmel Drive  
Indianapolis, Indiana 46032  
(317) 844-8877

Sanitary Sewer  
Cloy Twp Reg. Waste District  
10755 N. College  
Cloy Township IN 46240  
(317) 844-9200

**WATER**  
Indianapolis Water Company  
1220 Waterway Boulevard  
Indianapolis, Indiana 46202  
(317) 639-1501 ext.222

**TELEPHONE**  
Indiana Bell Telephone Co.  
5858 C.College Avenue  
Indianapolis, Indiana 46220  
265-5878 or 1-800-382-5544

Storm Sewer  
Hamilton County Drainage  
Hamilton Co. Surveyor's Office  
942 Maple Street  
(317) 776-9626

Streets  
Hamilton Co. Highway Dept.  
1717 East Pleasant  
Noblesville IN 46060  
(317) 773-7770

Utility Hotline: within Indiana 1-800-382-5544 outside Indiana 1-800-428-5200

**NOTE**  
The size and location of utilities shown are per plans and locations provided by the respective utility companies.  
All utility companies should be notified prior to any excavation for field location of services.

**BENCH MARK**

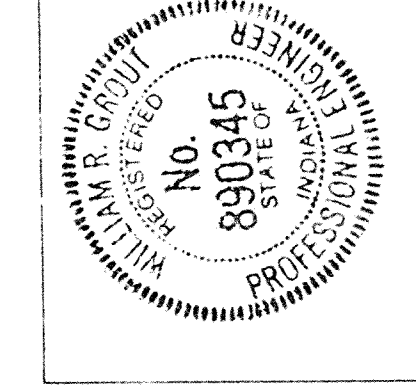
- BM TOP OF CASTING SANITARY MANHOLE APPROXIMATELY 995' EAST OF TOWNE ROAD AND 40' SOUTH OF 116TH STREET ELEV=893.54
- TBM P.K. NAIL IN POWERPOLE #471013 LOCATED APPROXIMATELY 495' SOUTH OF 116TH STREET ALONG EAST SIDE OF TOWNE ROAD. ELEV=894.14

ASSUMED NORTH  
SCALE: 1"=50'

- GENERAL NOTES:**
- ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
  - IT SHALL BE THE RESPONSIBILITY OF EACH SUBCONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO HIS PHASE OF WORK. IT SHALL ALSO BE THE SUBCONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATION OF EACH UTILITY BEFORE WORK IS STARTED. THE SUBCONTRACTOR SHALL NOTIFY IN WRITING THE OWNER AND THE ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN FIELD BEFORE WORK IS STARTED OR RESUMED.
  - STANDARD SPECIFICATIONS FOR THE CITY OF CARMEL, INDIANA SHALL APPLY FOR ALL STORM SEWERS.
  - ANY PART OF THE SANITARY OR STORM SEWER TRENCHES RUNNING UNDER PAVED AREAS TO BE BACKFILLED WITH GRANULAR MATERIAL.
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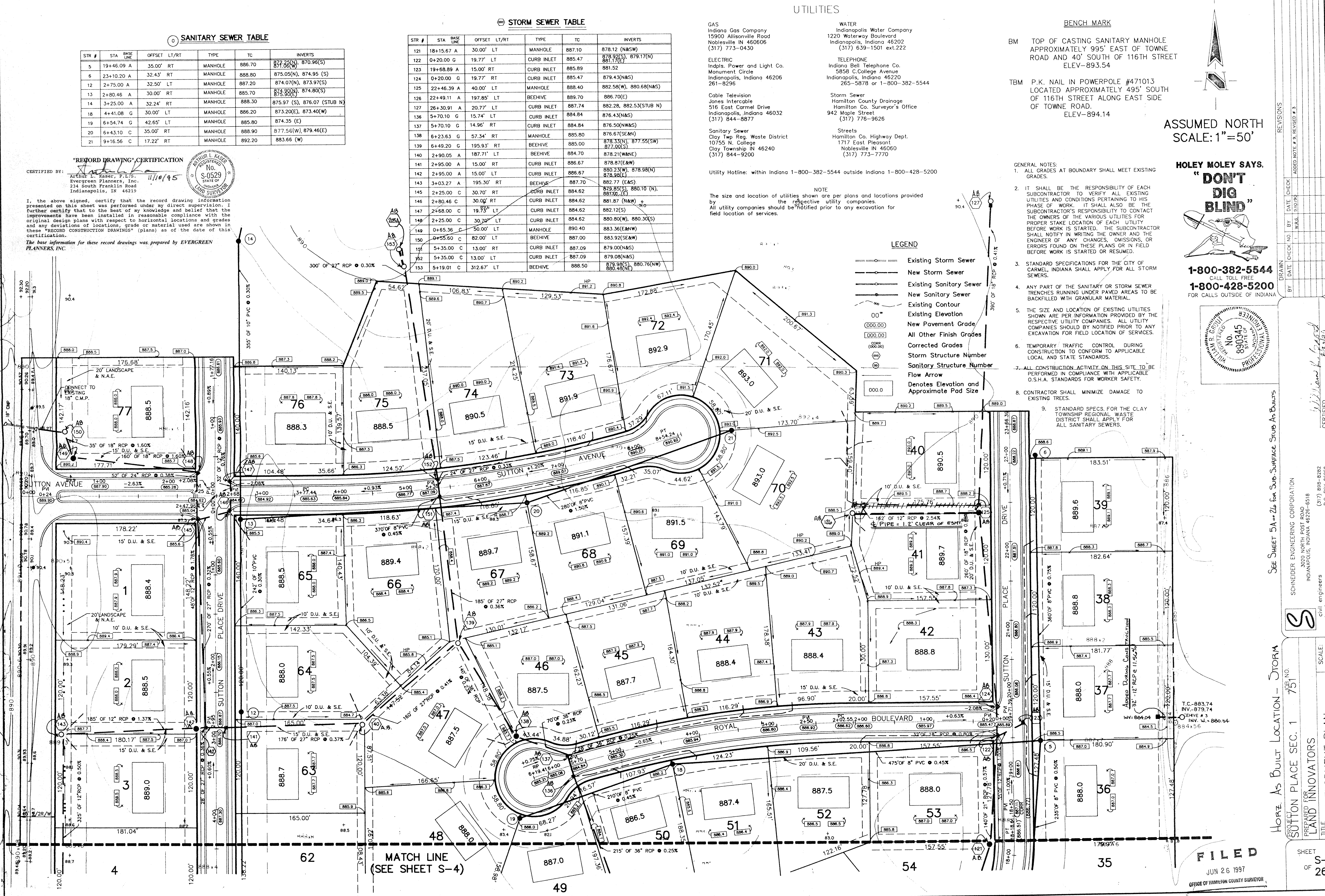
**HOLEY MOLEY SAYS, "DON'T DIG BLIND"**

1-800-382-5544  
CALL TOLL FREE  
1-800-428-5200  
FOR CALLS OUTSIDE OF INDIANA



**LEGEND**

- Existing Storm Sewer
- New Storm Sewer
- Existing Sanitary Sewer
- New Sanitary Sewer
- Existing Contour
- Existing Elevation
- New Pavement Grade
- All Other Finish Grades
- Corrected Grades
- Storm Structure Number
- Sanitary Structure Number
- Flow Arrow
- Denotes Elevation and Approximate Pad Size



**"RECORD DRAWING" CERTIFICATION**

CERTIFIED BY: Arthur L. Kaser, P.L.S.  
Evergreen Planners, Inc.  
234 South Franklin Road  
Indianapolis, IN 46219

I, the above signed, certify that the record drawing information presented on this sheet was prepared under my direct supervision. I further certify that to the best of my knowledge and belief that the improvements have been installed in reasonable compliance with the original design plans with respect to horizontal locations and grades and any deviations of locations, grade or material used are shown in these "RECORD CONSTRUCTION DRAWINGS" (plans) as of the date of this certification.

The base information for these record drawings was prepared by EVERGREEN PLANNERS, INC.

PROJECT: SUTTON PLACE SEC. 1  
PREPARED FOR: LAND INNOVATORS  
TITLE: DEVELOPMENT PLAN

DATE: 7/5/97

SCALE: 1"=50'

SEE SHEET 51-A-26 for Sub-Surface Stub As-Builts

SCHNEIDER ENGINEERING CORPORATION  
3020 NORTH FORST ROAD  
INDIANAPOLIS, INDIANA 46226-6518  
(317) 899-6882  
civil engineers  
land surveyors

FILED  
JUN 26 1997  
OFFICE OF HAMILTON COUNTY SURVEYOR

SHEET OF 5-26

**○ SANITARY SEWER TABLE**

STR #	STA	BASE	OFFSET	LT/RT	TYPE	TC	INVERTS
5	19+46.09	A	35.00'	RT	MANHOLE	886.70	879.25(N), 870.96(S)
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12	2+75.00	A	32.50'	LT	MANHOLE	887.20	874.07(N), 873.97(S)
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STR #	STA	BASE	OFFSET	LT/RT	TYPE	TC	INVERTS
121	18+15.67	A	30.00'	LT	MANHOLE	887.10	878.12 (N&S)
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**GAS**  
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Indianapolis, Indiana 46206  
261-8296

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Sanitary Sewer  
Clay Twp Reg. Waste District  
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Clay Township IN 46240  
(317) 844-9200

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**Storm Sewer**  
Hamilton County Drainage  
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(317) 773-3626

**Streets**  
Hamilton Co. Highway Dept.  
1717 East Pleasant  
Noblesville IN 46060  
(317) 773-7770

**BENCH MARK**

BM TOP OF CASTING SANITARY MANHOLE  
APPROXIMATELY 995' EAST OF TOWNE  
ROAD AND 40' SOUTH OF 116TH STREET  
ELEV=893.54

TBM P.K. NAIL IN POWERPOLE #471013  
LOCATED APPROXIMATELY 495' SOUTH  
OF 116TH STREET ALONG EAST SIDE  
OF TOWNE ROAD.  
ELEV=894.14

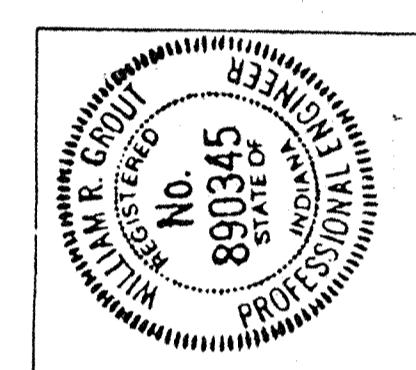
ASSUMED NORTH  
SCALE: 1"=50'

HOLEY MOLEY SAYS.

**"DON'T  
DIG  
BLIND"**



1-800-382-5544  
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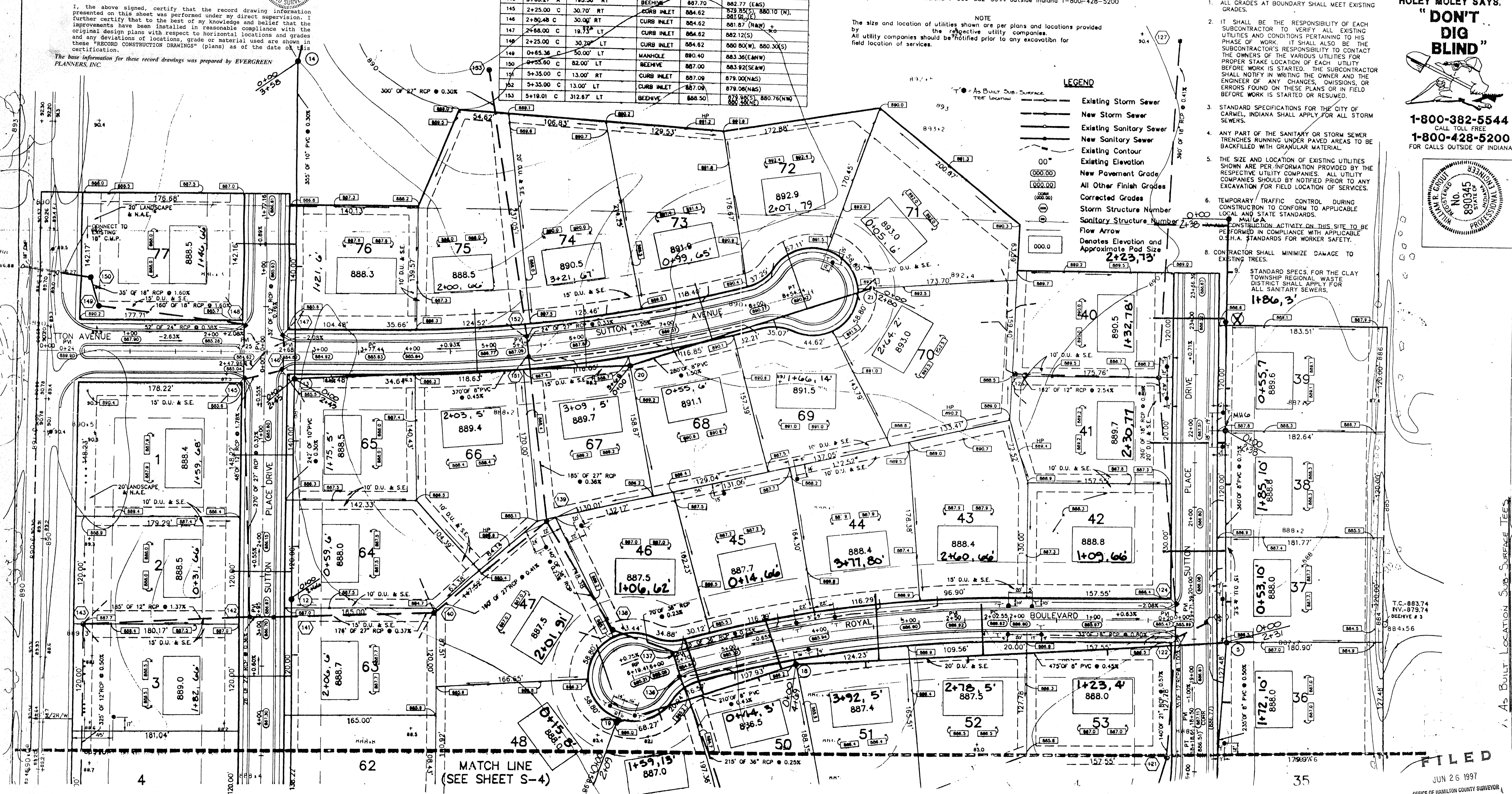


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**LEGEND**

- Existing Storm Sewer
- New Storm Sewer
- Existing Sanitary Sewer
- New Sanitary Sewer
- Existing Contour
- Existing Elevation
- New Pavement Grade
- All Other Finish Grades
- Corrected Grades
- Storm Structure Number
- Sanitary Structure Number
- Flow Arrow
- Denotes Elevation and Approximate Pad Size



**"RECORD DRAWING" CERTIFICATION**  
CERTIFIED BY: [Signature]  
No. S-0529  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

I, the above signed, certify that the record drawing information presented on this sheet was prepared under my direct supervision. I further certify that to the best of my knowledge and belief that the original design plans with respect to horizontal locations and grades and any deviations of locations, grade or material used are shown in these "RECORD CONSTRUCTION DRAWINGS" (plans) as of the date of this certification.

The base information for these record drawings was prepared by EVERGREEN PLANNERS, INC.

CHIDDER ENGINEERING CORPORATION  
3020 NORTH POST ROAD  
INDIANAPOLIS, INDIANA 46277-1511

As BUILT LOCATION SUB-SURFACE TIES  
SUTTON PLACE SEC. 1 751  
PREPARED FOR LAND INNOVATORS  
DEVELOPMENT PLAN  
SCALE:  
SHEET 5-5A  
26

FILED  
JUN 26 1997  
OFFICE OF HAMILTON COUNTY SURVEYOR

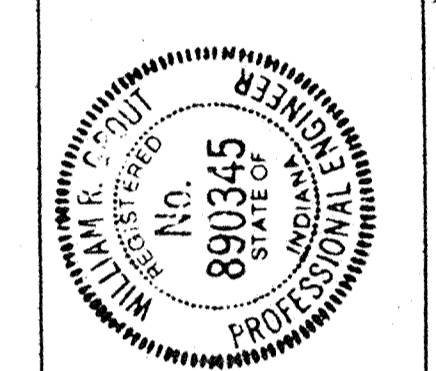
**HOLEY MOLEY SAYS.**  
**"DON'T DIG BLIND"**  
  
**1-800-382-5544**  
 CALL TOLL FREE  
**1-800-428-5200**  
 FOR CALLS OUTSIDE OF INDIANA

- GENERAL NOTES:
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  - CONTRACTOR SHALL MINIMIZE DAMAGE TO EXISTING TREES.

**BENCH MARK**

BM TOP OF CASTING SANITARY MANHOLE APPROXIMATELY 995' EAST OF TOWNE ROAD AND 40' SOUTH OF 116TH STREET ELEV-893.54

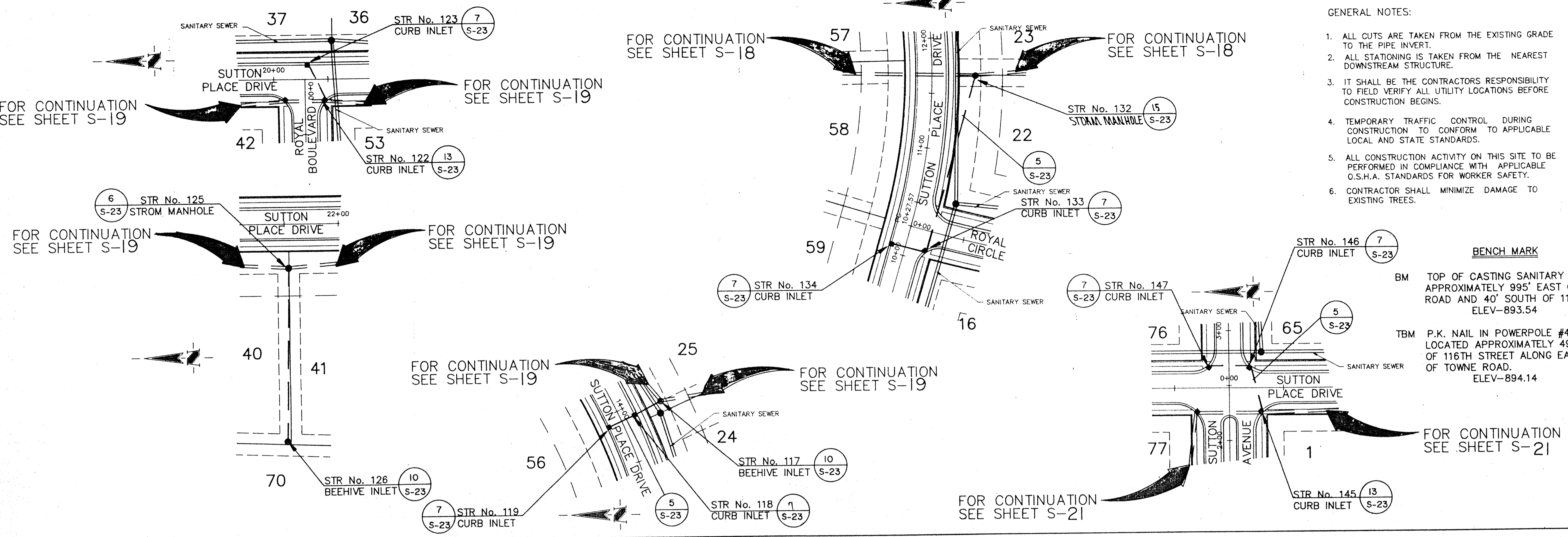
TBM P.K. NAIL IN POWERPOLE #471013 LOCATED APPROXIMATELY 495' SOUTH OF 116TH STREET ALONG EAST SIDE OF TOWNE ROAD. ELEV-894.14



REVISIONS

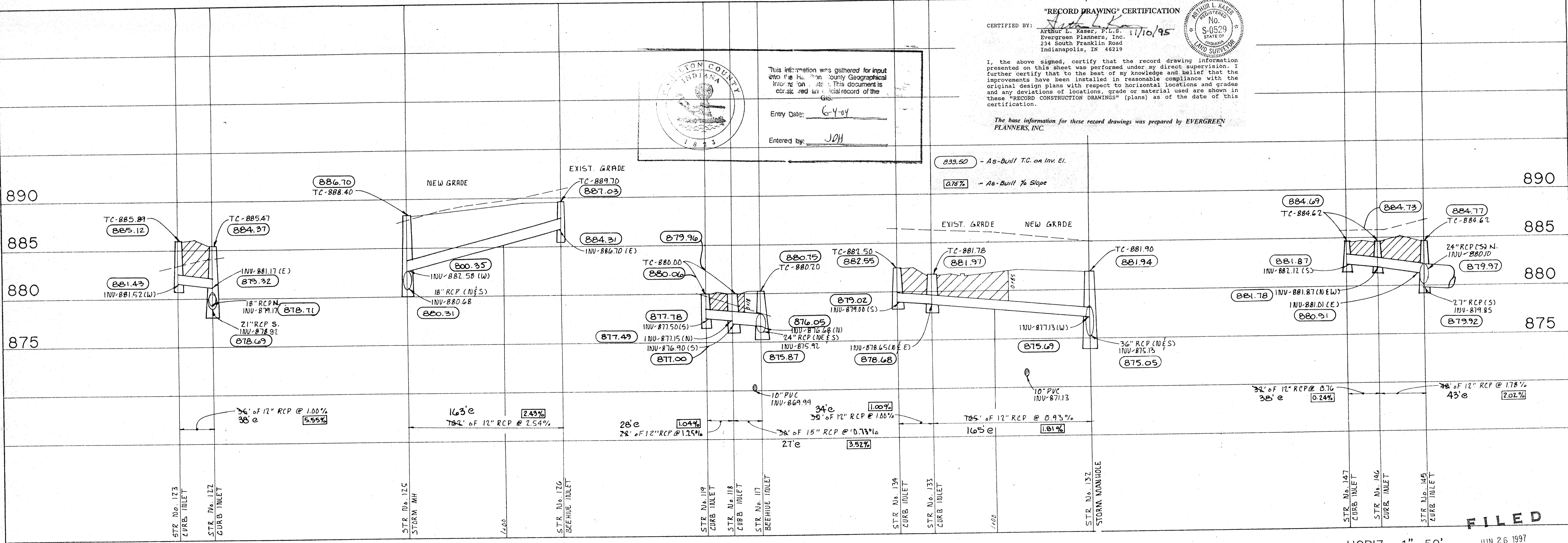
NO.	DATE	BY	CHECK
1	11/10/95	JK	AK

William R. Coast  
 8/10/90  
 CERTIFIED



**STORM SEWER PLAN**

SCALE: 1" = 50'



**STORM SEWER PROFILE**

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

JUN 26 1997  
 OFFICE OF HAMILTON COUNTY SURVEYOR

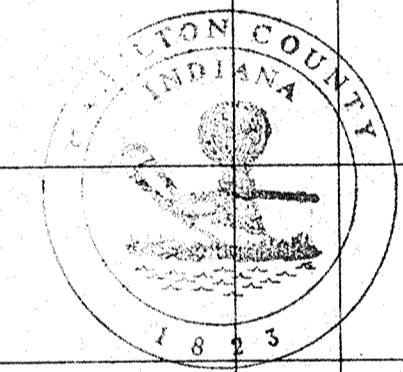
**"RECORD DRAWING" CERTIFICATION**

CERTIFIED BY: *Arthur L. Kaser*  
 Arthur L. Kaser, P.L.S.  
 Evergreen Planners, Inc.  
 234 South Franklin Road  
 Indianapolis, IN 46219

I, the above signed, certify that the record drawing information presented on this sheet was performed under my direct supervision. I further certify that to the best of my knowledge and belief that the improvements have been installed in reasonable compliance with the original design plans with respect to horizontal locations and grades and any deviations of locations, grade or material used are shown in these "RECORD CONSTRUCTION DRAWINGS" (plans) as of the date of this certification.

The base information for these record drawings was prepared by EVERGREEN PLANNERS, INC.

Entry Date: 6-4-97  
 Entered by: JKH



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

PROJECT: SUTTON PLACE SEC. 1  
 PREPARED FOR: LAND INNOVATORS  
 TITLE: STORM SEWER PLAN

SCALE: AS NOTED

SCHNEIDER ENGINEERING CORPORATION  
 3020 NORTH POST ROAD  
 INDIANAPOLIS, INDIANA 46226-6518  
 (317) 898-8282  
 P.O. BOX 26068

FILED

SHEET S-17 OF 26

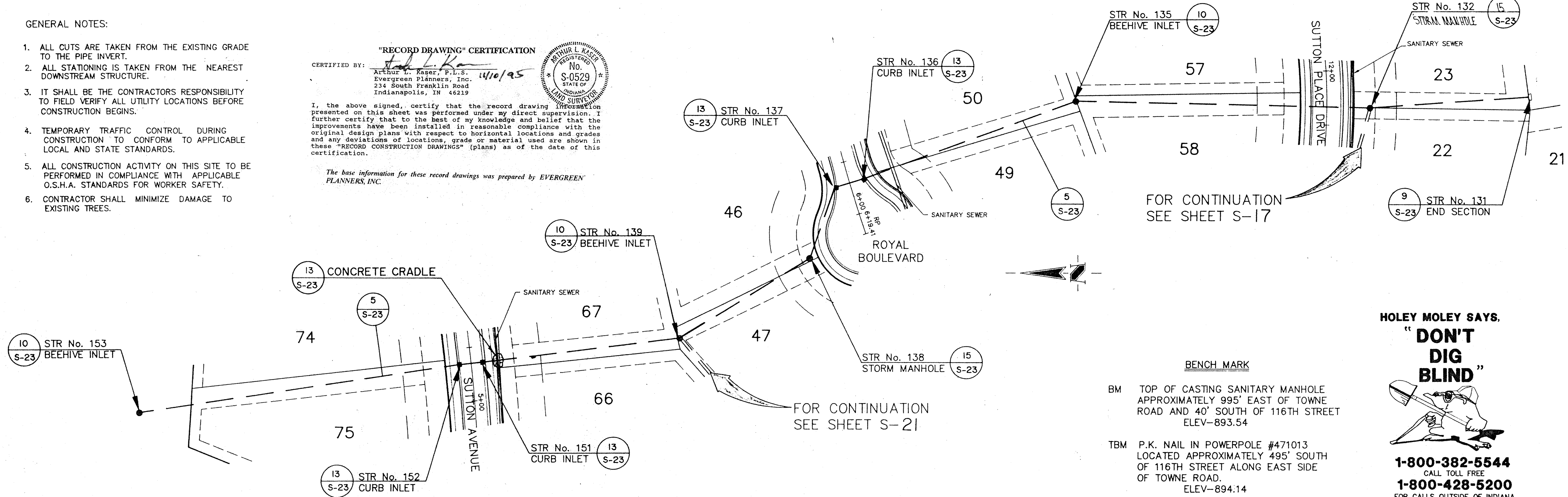
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 CERTIFIED BY: *Arthur L. Kaser, P.L.S.*  
 Evergreen Planners, Inc.  
 234 South Franklin Road  
 Indianapolis, IN 46219  
 14/10/95  
 No. S-0529  
 STATE OF INDIANA  
 LAND SURVEYOR

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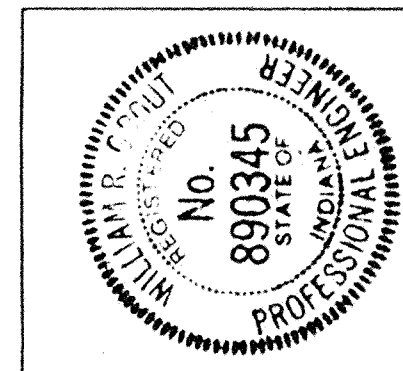
The base information for these record drawings was prepared by EVERGREEN PLANNERS, INC.



**BENCH MARK**  
 BM TOP OF CASTING SANITARY MANHOLE APPROXIMATELY 995' EAST OF TOWNE ROAD AND 40' SOUTH OF 116TH STREET ELEV=893.54  
 TBM P.K. NAIL IN POWERPOLE #471013 LOCATED APPROXIMATELY 495' SOUTH OF 116TH STREET ALONG EAST SIDE OF TOWNE ROAD. ELEV=894.14

**HOLEY MOLEY SAYS. "DON'T DIG BLIND"**

**1-800-382-5544**  
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 FOR CALLS OUTSIDE OF INDIANA

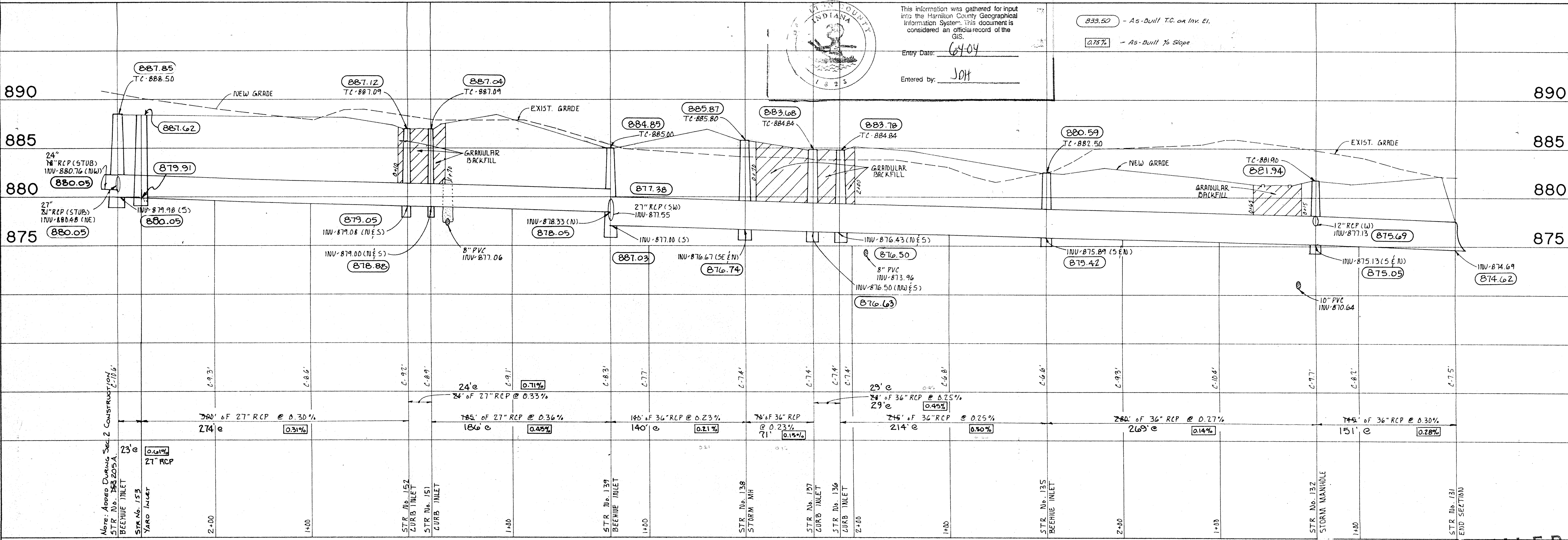


REVISIONS  
 DRAWN BY DATE CHECK NO. BY DATE CHECK  
 WJG 6/28/95  
 TC 6/28/95

William F. Gerd  
 CERTIFIED 6/28/95

STORM SEWER PLAN

SCALE: 1" = 50'



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: 6-4-04  
 Entered by: JOH

STORM SEWER PROFILE

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

FILED  
 JUN 26 1997  
 OFFICE OF HAMILTON COUNTY SURVEYOR

PROJECT: SUTTON PLACE SEC. 1  
 JOB NO. 751.01  
 PREPARED FOR LAND INNOVATORS  
 TITLE: STORM SEWER PLAN

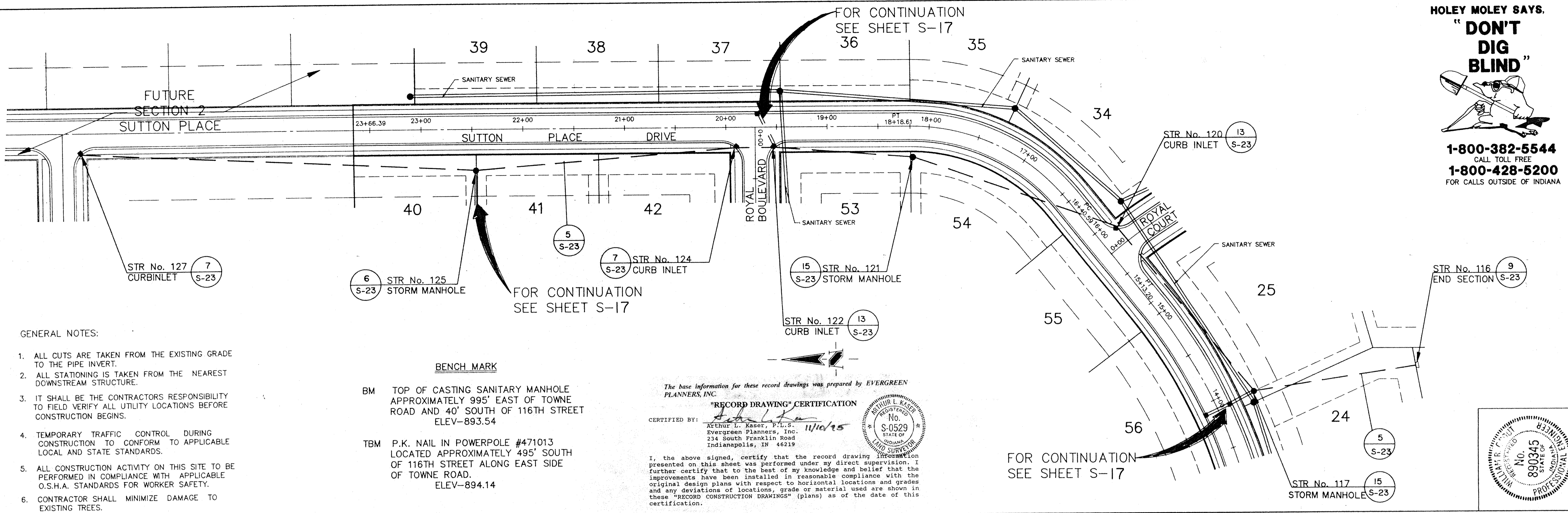
SCHEIDER ENGINEERING CORPORATION  
 3020 NORTH POST ROAD  
 INDIANAPOLIS, INDIANA 46226-6518  
 (317) 899-8882  
 P.O. BOX 20068

civil engineers  
 land surveyors

SCALE: AS NOTED

SHEET 9-18  
 26

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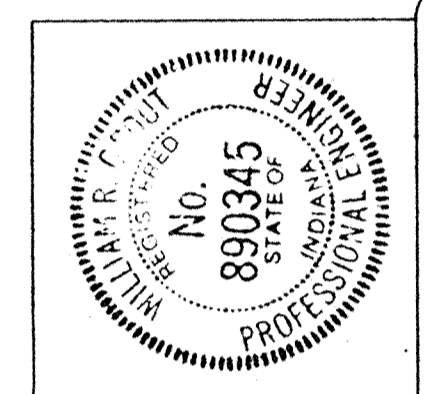


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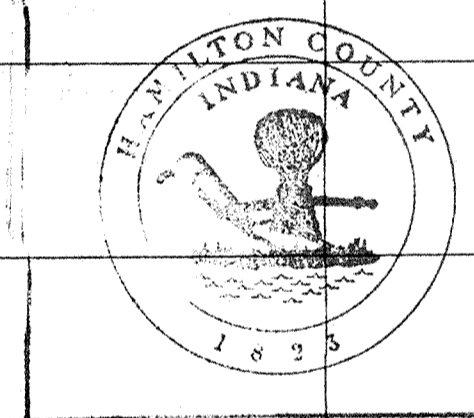
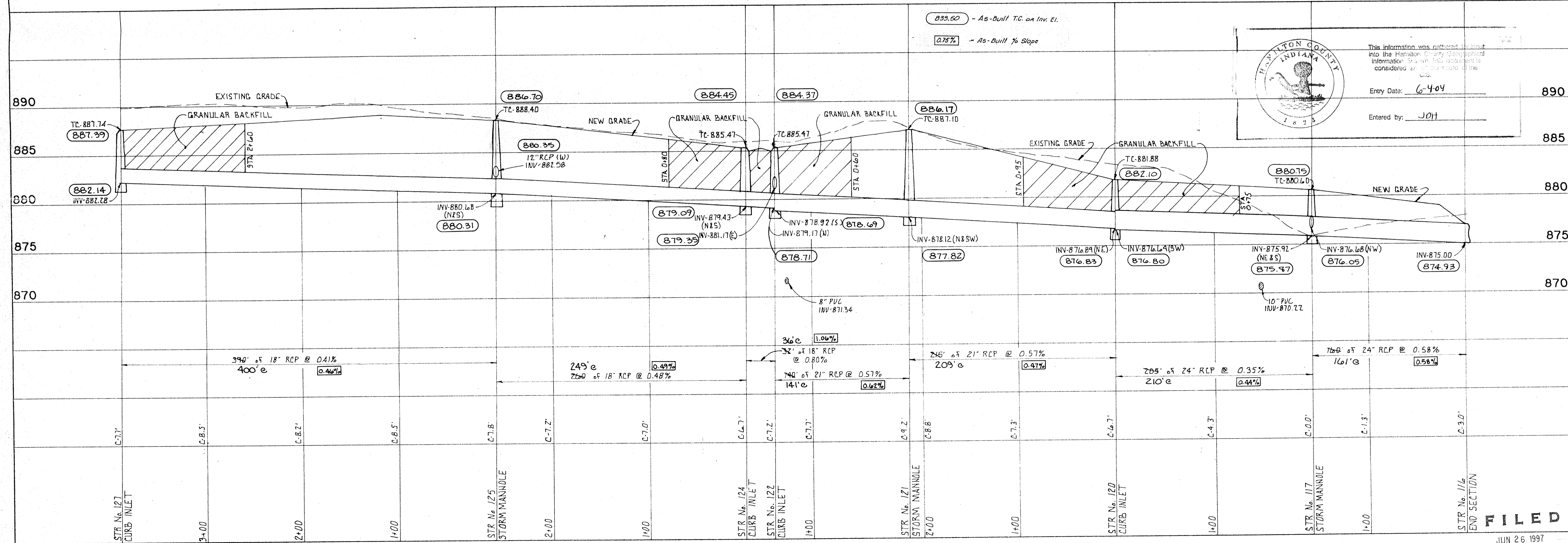
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The base information for these record drawings was prepared by EVERGREEN PLANNERS, INC.  
**"RECORD DRAWING" CERTIFICATION**  
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 Evergreen Planners, Inc.  
 234 South Franklin Road  
 Indianapolis, IN 46219  
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**STORM SEWER PLAN**

SCALE: 1" = 50'



This information was gathered and submitted into the Hamilton County Geographic Information System. This document is considered an informational utility only.  
 Entry Date: 6-4-04  
 Entered by: JPH

**STORM SEWER PROFILE**

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

JUN 26 1997  
 OFFICE OF HAMILTON COUNTY SURVEYOR

REVISIONS

NO.	DATE	CHECK	BY

PROJECT: SUTTON PLACE SEC. 1  
 PREPARED FOR: LAND INNOVATORS  
 TITLE: STORM SEWER PLAN

JOB NO. 751.01

SCALE: AS NOTED

FILED

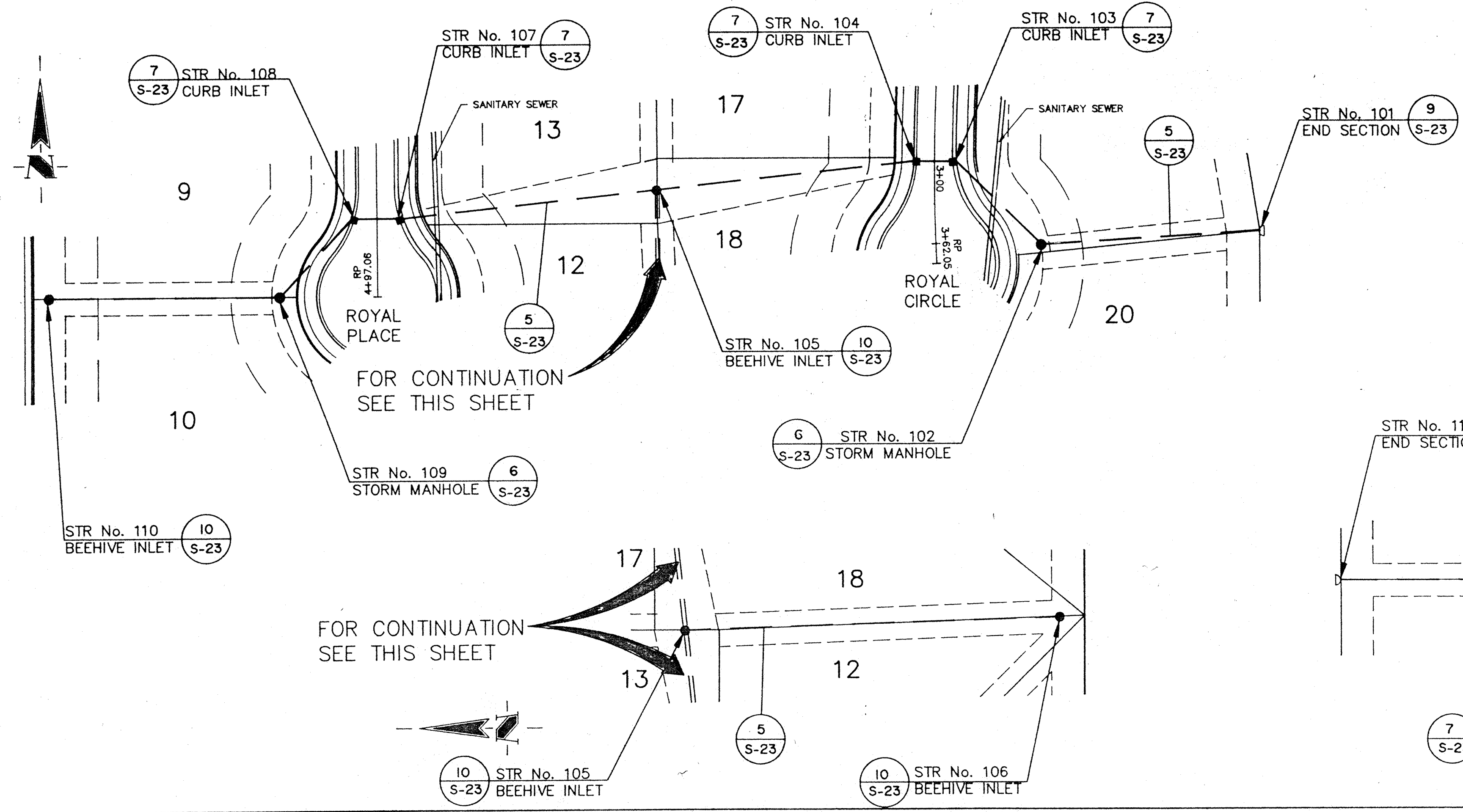
SHEET 9-19

26

William F. Grant  
 CERTIFIED

SCHNEIDER ENGINEERING CORPORATION  
 3020 NORTH POST ROAD  
 INDIANAPOLIS, INDIANA 46226-6518  
 (317) 898-8282  
 P.O. BOX 26068





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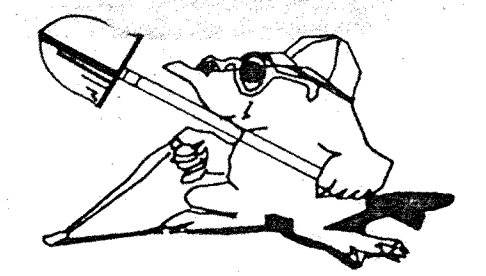
TBM P.K. NAIL IN POWERPOLE #471013 LOCATED APPROXIMATELY 495' SOUTH OF 116TH STREET ALONG EAST SIDE OF TOWNE ROAD. ELEV=894.14

**"RECORD DRAWING" CERTIFICATION**

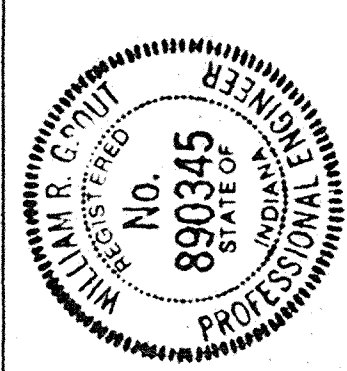
CERTIFIED BY: *Arthur L. Kaser, P.L.S.*  
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 234 South Franklin Road  
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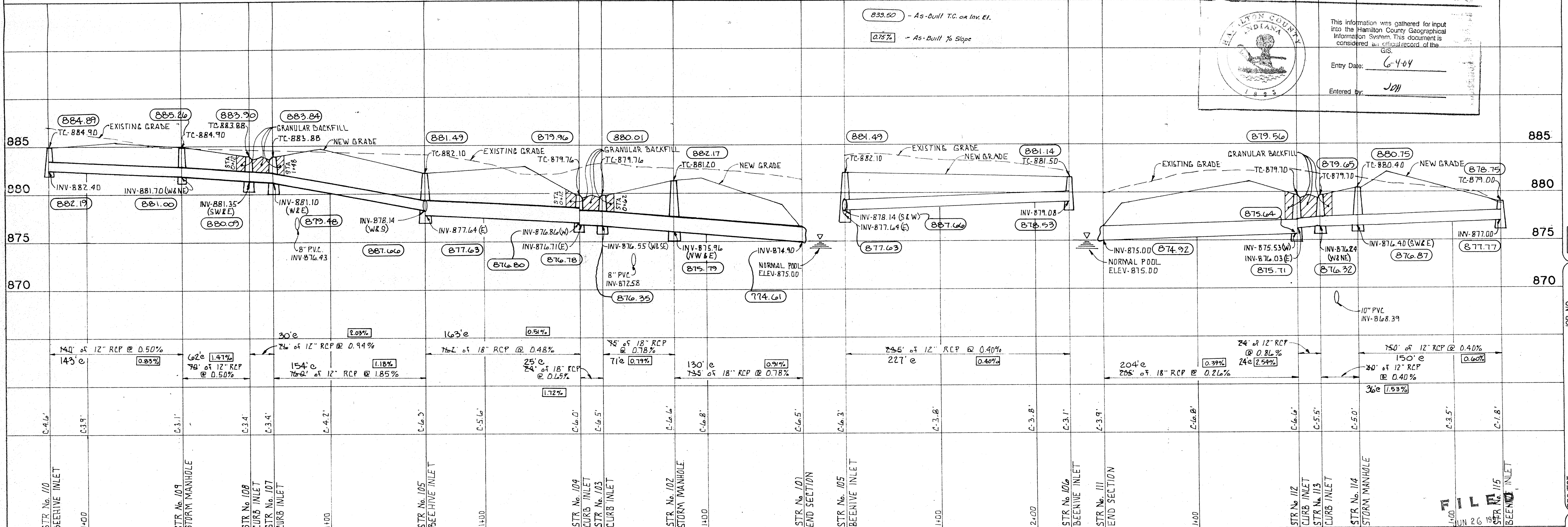


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**STORM SEWER PLAN**

SCALE: 1" = 50'



**STORM SEWER PROFILE**

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REVISIONS

NO.	DATE	BY	DESCRIPTION

PROJECT: SUTTON PLACE SEC. 1  
 PREPARED FOR: LAND INNOVATORS  
 TITLE: STORM SEWER PLAN

JOB NO. 751.01

SCALE: AS NOTED

PROJECTED: JUN 26 1995

OFFICE OF HAMILTON COUNTY SURVEYOR

SHANE 05-20  
 26

WILLIAM J. GRANT  
 8/30/90  
 CERTIFIED

SCHNEIDER ENGINEERING CORPORATION  
 3020 NORTH POST ROAD  
 INDIANAPOLIS, INDIANA 46226-6516  
 (317) 896-8262  
 P.O. BOX 26068

civil engineers  
 land surveyors

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FOR CONTINUATION SEE THIS SHEET

FOR CONTINUATION SEE SHEET S-17

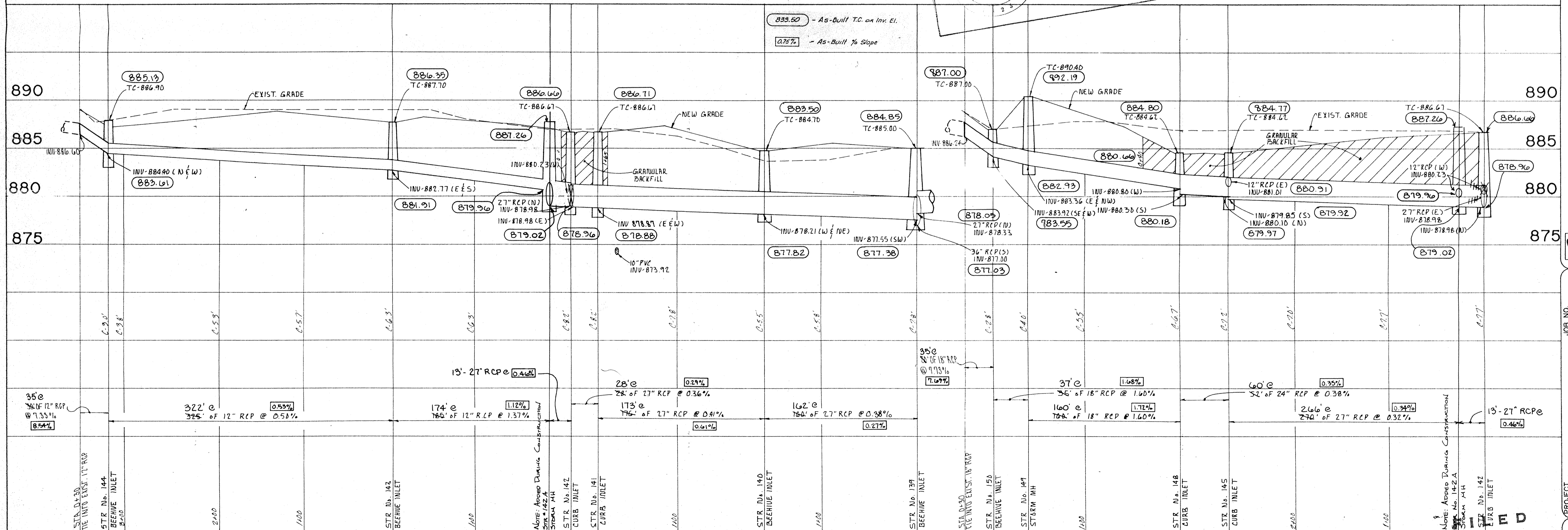
FOR CONTINUATION SEE SHEET S-18

FOR CONTINUATION SEE THIS SHEET

FOR CONTINUATION SEE SHEET S-18

STORM SEWER PLAN

SCALE: 1" = 50'

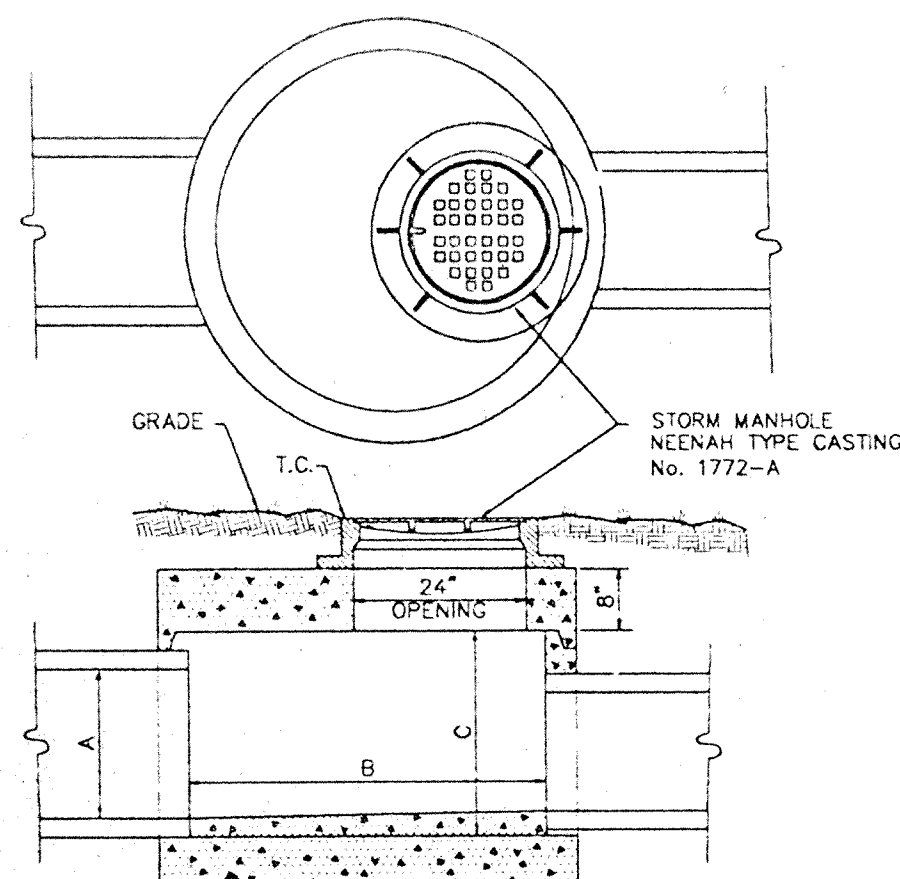


STORM SEWER PROFILE

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

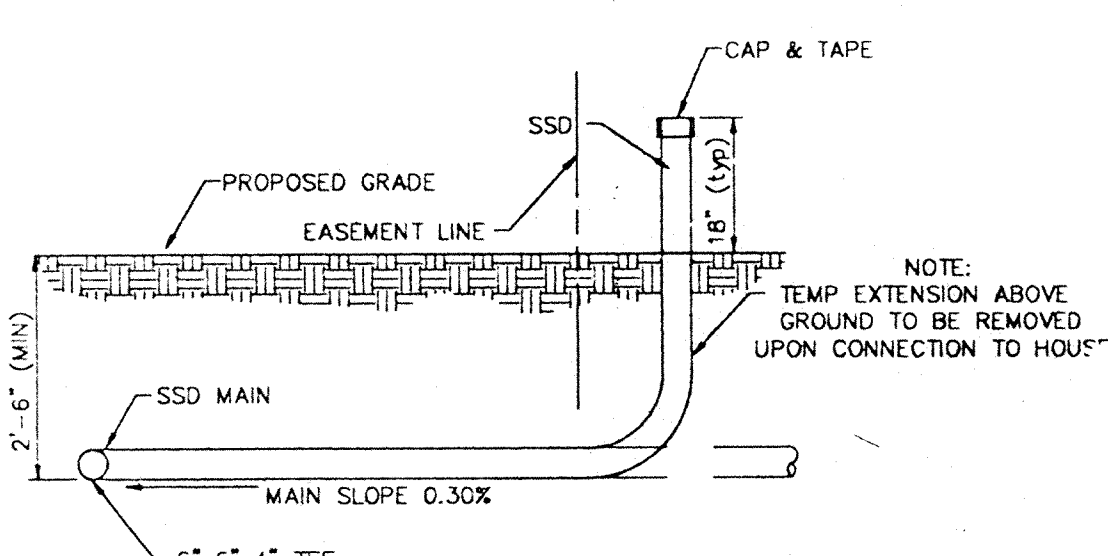
JUN 26 1997 OFFICE OF HAMILTON COUNTY SURVEYOR

Professional Engineer seal for William R. Gland, No. 890345. Project information: SUTTON PLACE SEC. 1, LAND INNOVATORS, STORM SEWER PLAN. Job No. 751-01. Sheet S-21 of 26.



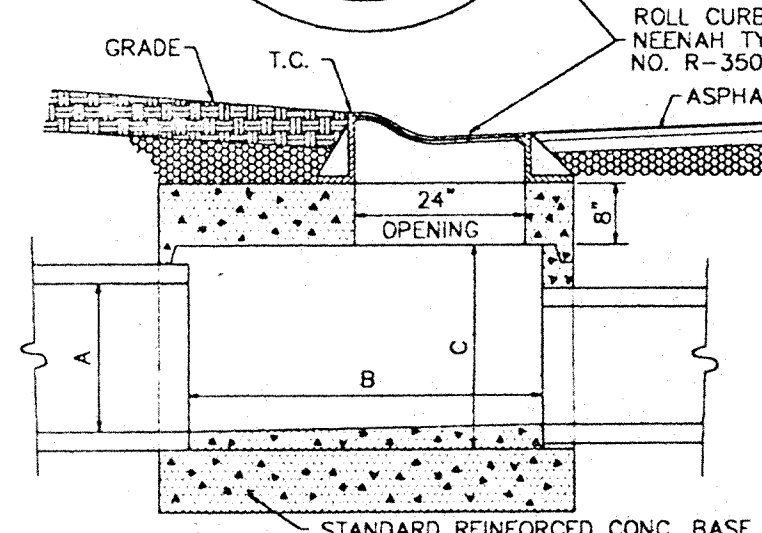
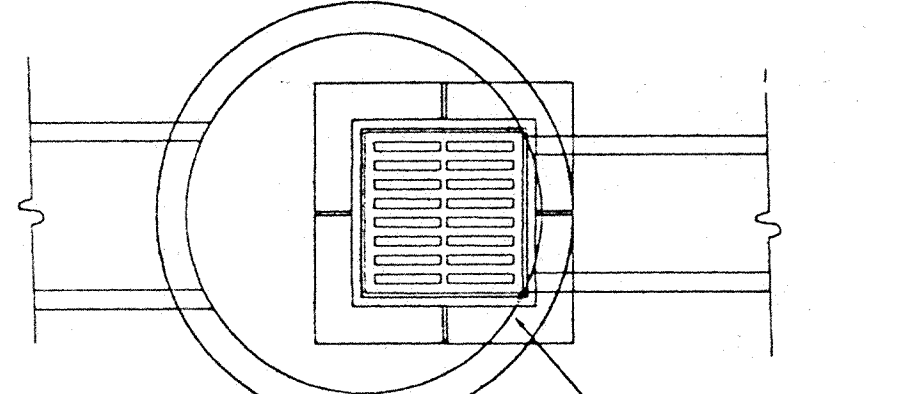
DIMENSIONS (INCHES)			STRUCTURE NUMBER
A (MAX)	B (I.D.)	C (MIN)	
21	48	28	121
24	48	31	117
27	60	34	
30	60	38	
33	60	41	
36	60	44	138
42	60	50	

**SPECIAL STORM MANHOLE DETAIL**



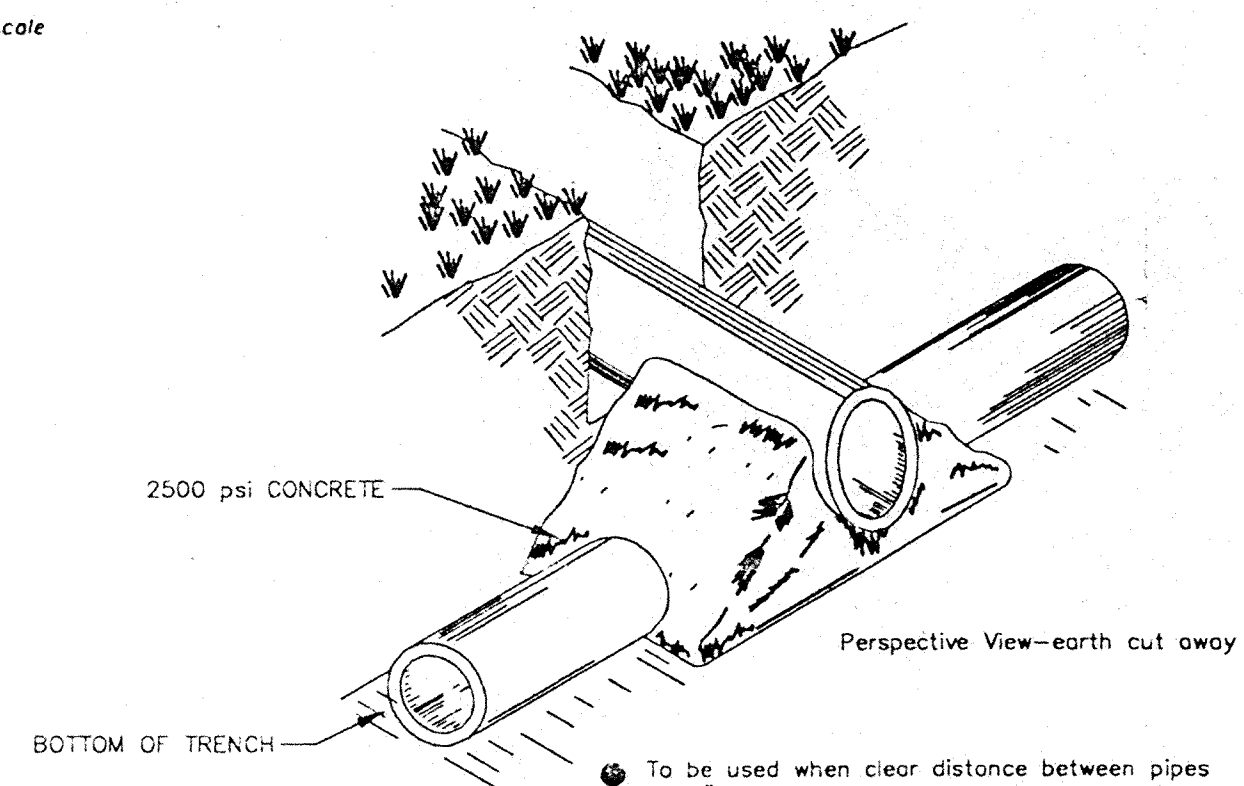
**TYPICAL SSD CONNECTION TO INDIVIDUAL LOTS**

12  
S-23



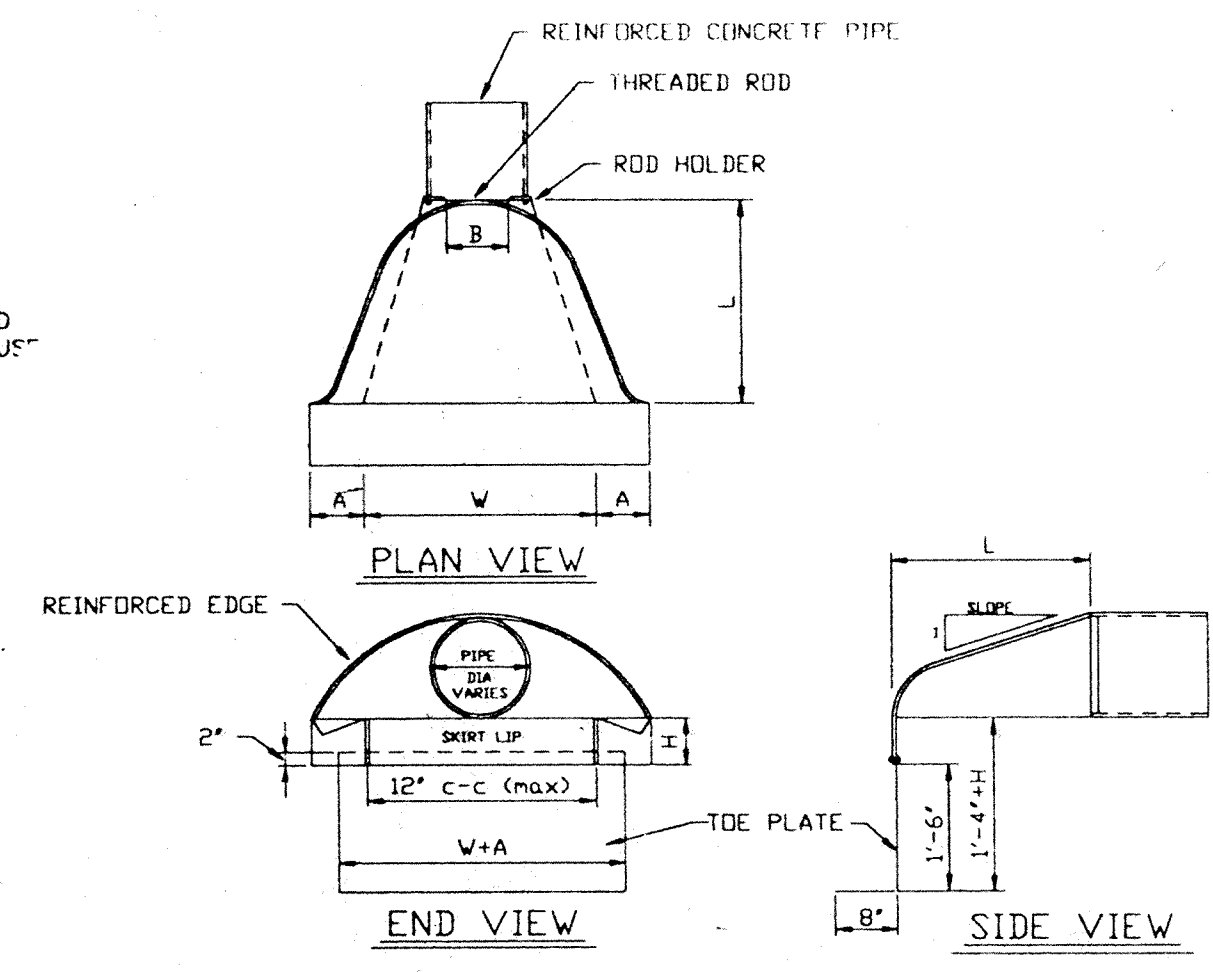
**TYPICAL HEADWALL DETAIL FOR 36" PIPE**

no scale



**CONCRETE CRADLE**

14  
S-23

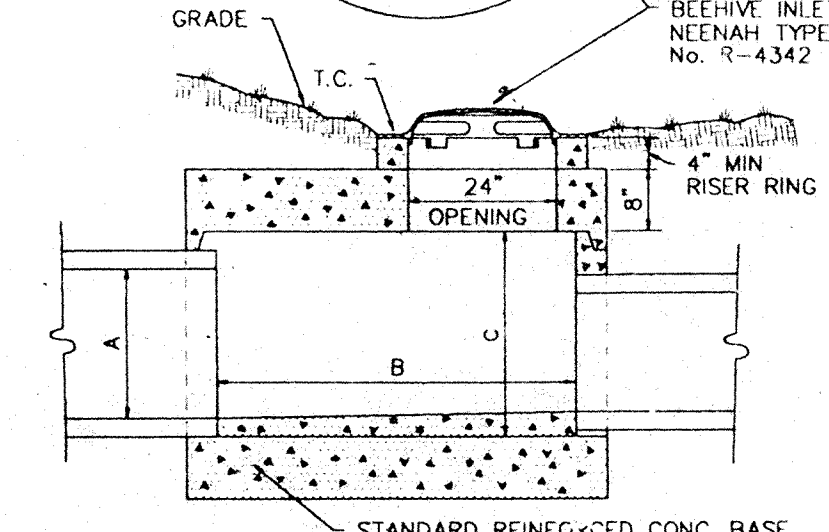
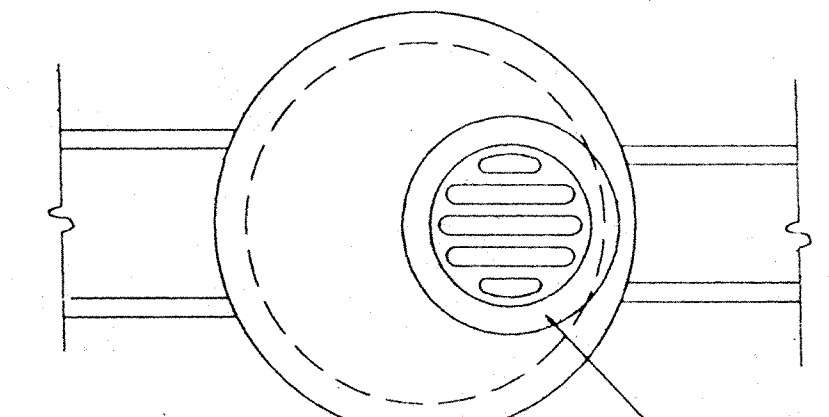


DIMENSIONS OF GALVANIZED STEEL END SECTIONS FOR ROUND PIPE									
TYPE OF PIPE	PIPE DIA IN INCHES	GAGE	DIMENSION				APPROX. SLOPE		
			A	B	H	V			
R.C.P.	12	.063	7	8	6	26	30	2 1/2	
R.C.P.	15	.063	8	10	6	31	36	2 1/2	
R.C.P.	18	.063	9	12	6	36	42	2 1/2	
R.C.P.	21	.063	10	13	6	41	48	2 1/2	
R.C.P.	24	.079	12	16	6	53	60	2 1/2	
R.C.P.	30	.079	14	19	9	60	72	2 1/2	
R.C.P.	36	.099	16	22	11	69	84	2 1/2	
R.C.P.	42	.099	18	27	12	78	90	2 1/4	
R.C.P.	48	.099	18	30	12	84	102	2	
R.C.P.	54	.099	18	33	12	87	114	5/4	

NOTE: FOR CORRUGATED METAL PIPE USE NEXT SMALLER DIAMETER END SECTION.

**METAL END SECTION DETAIL**

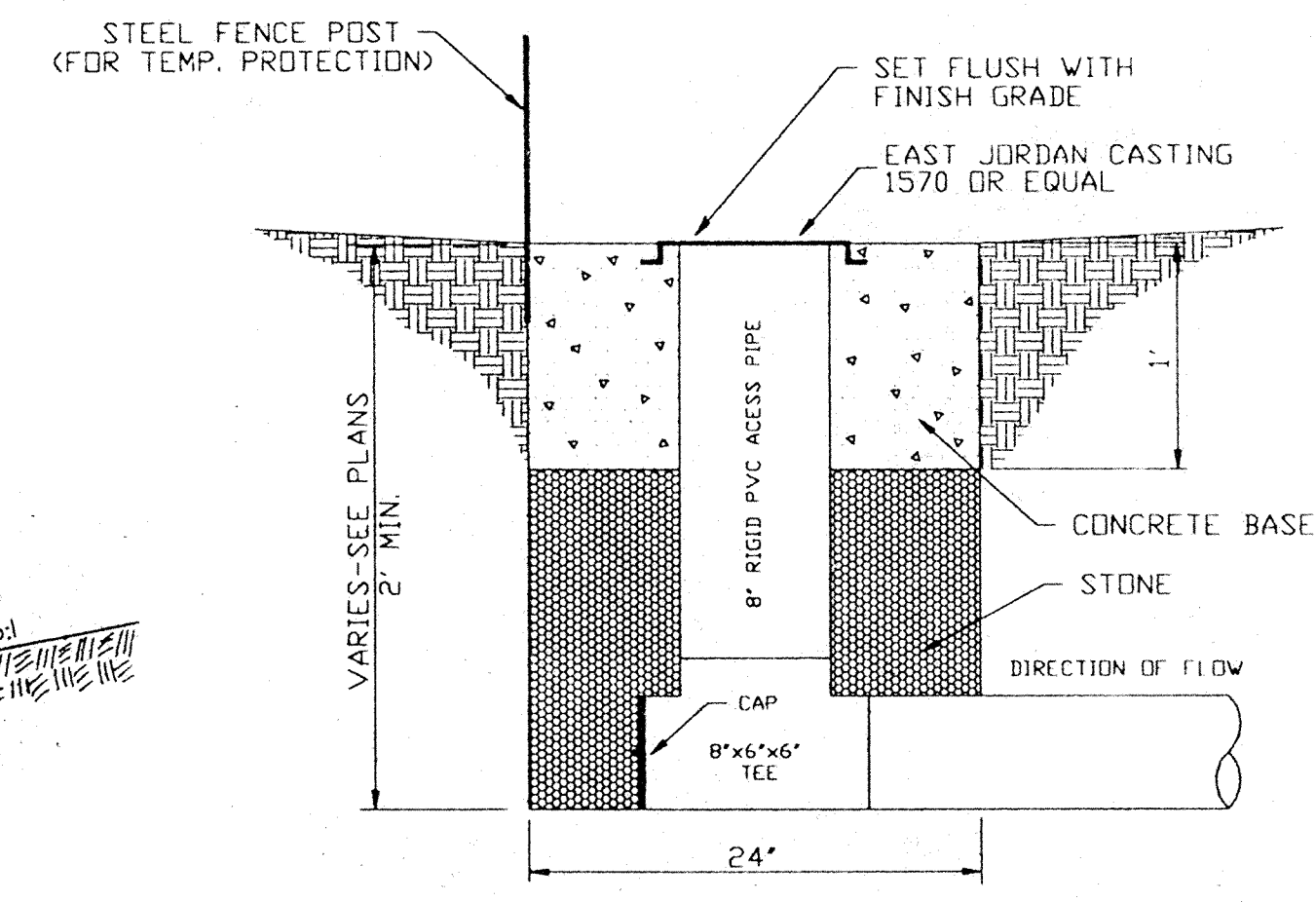
9  
S-23



DIMENSIONS (INCHES)			STRUCTURE NUMBER
A (MAX)	B (I.D.)	C (MIN)	
12	36	18	106, 110, 115, 126
15	36	21	
18	48	20	105, 151
21	48	28	
24	48	31	117
27	60	34	153
30	60	38	
33	60	41	135, 139
36	60	44	
42	60	50	

**BEEHIVE INLET DETAIL**

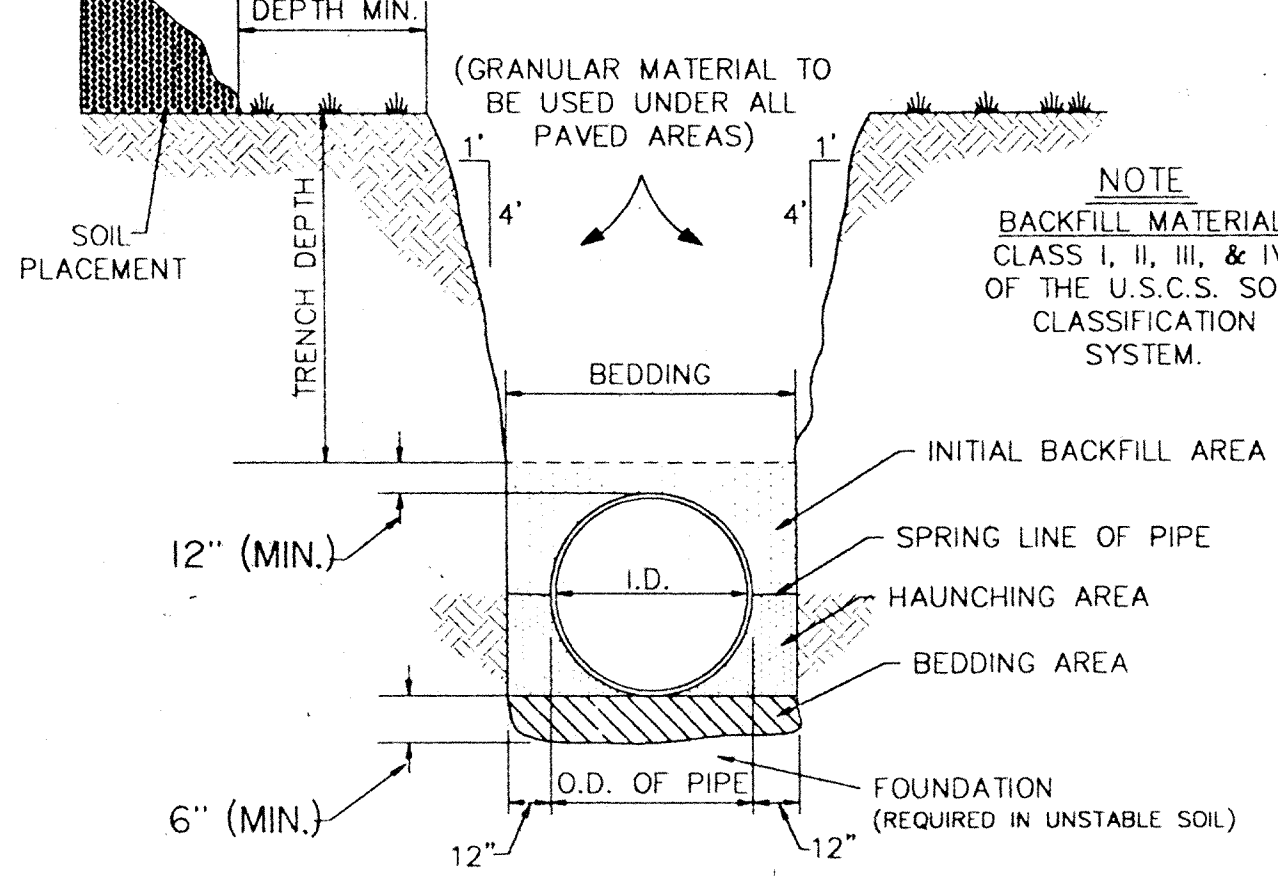
10  
S-23



**SUBSURFACE DRAIN RISER DETAIL**

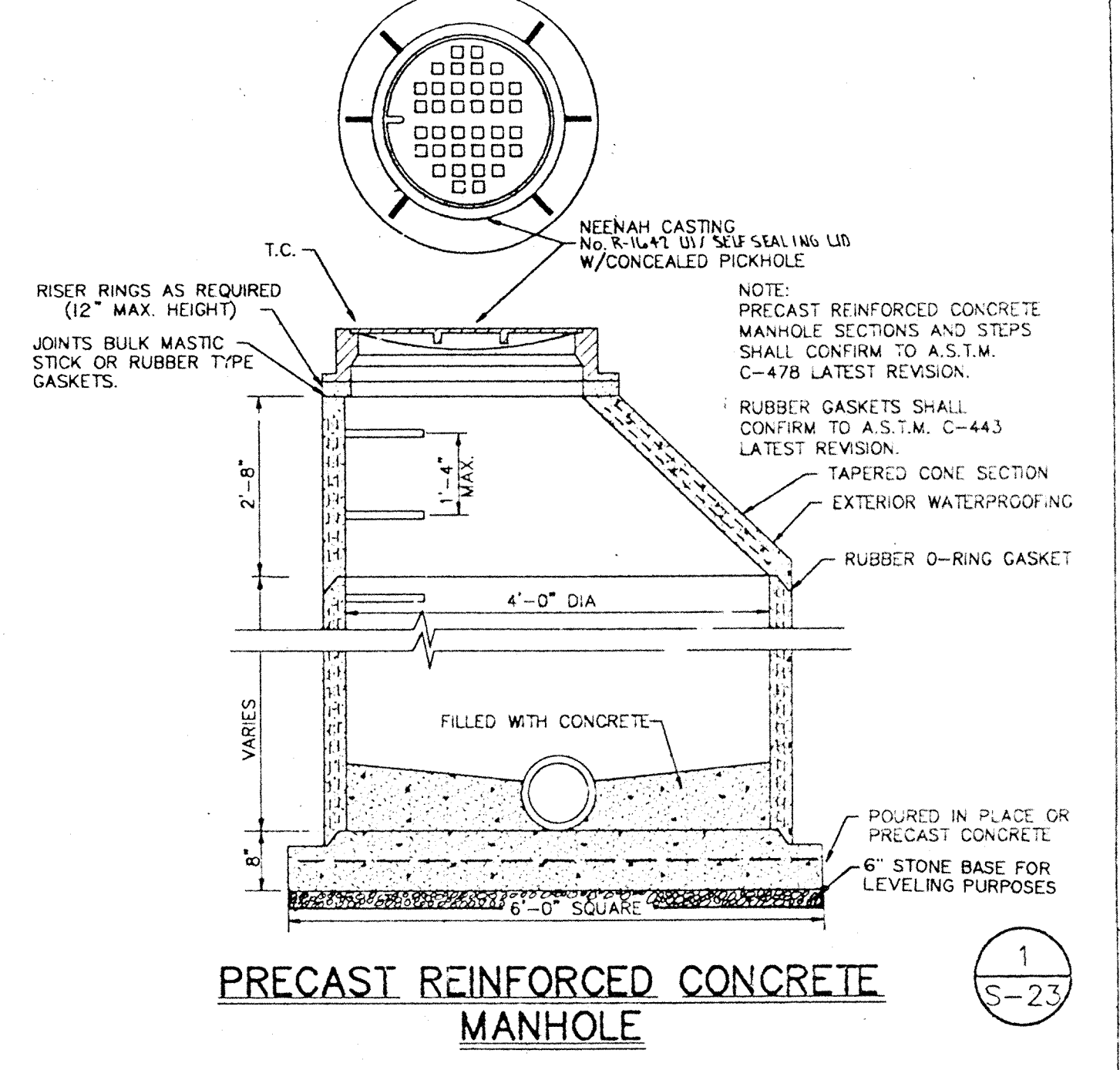
11  
S-23

TRENCH AREA	REQUIRED COMPACTION TABLE		
	CLASS I	CLASS II	CLASS III
BEDDING	FLAT SHOVEL	85%	90%
HAUNCH	NO COMPACTION	85%	90%
INITIAL BACKFILL	NO COMPACTION	85%	90%



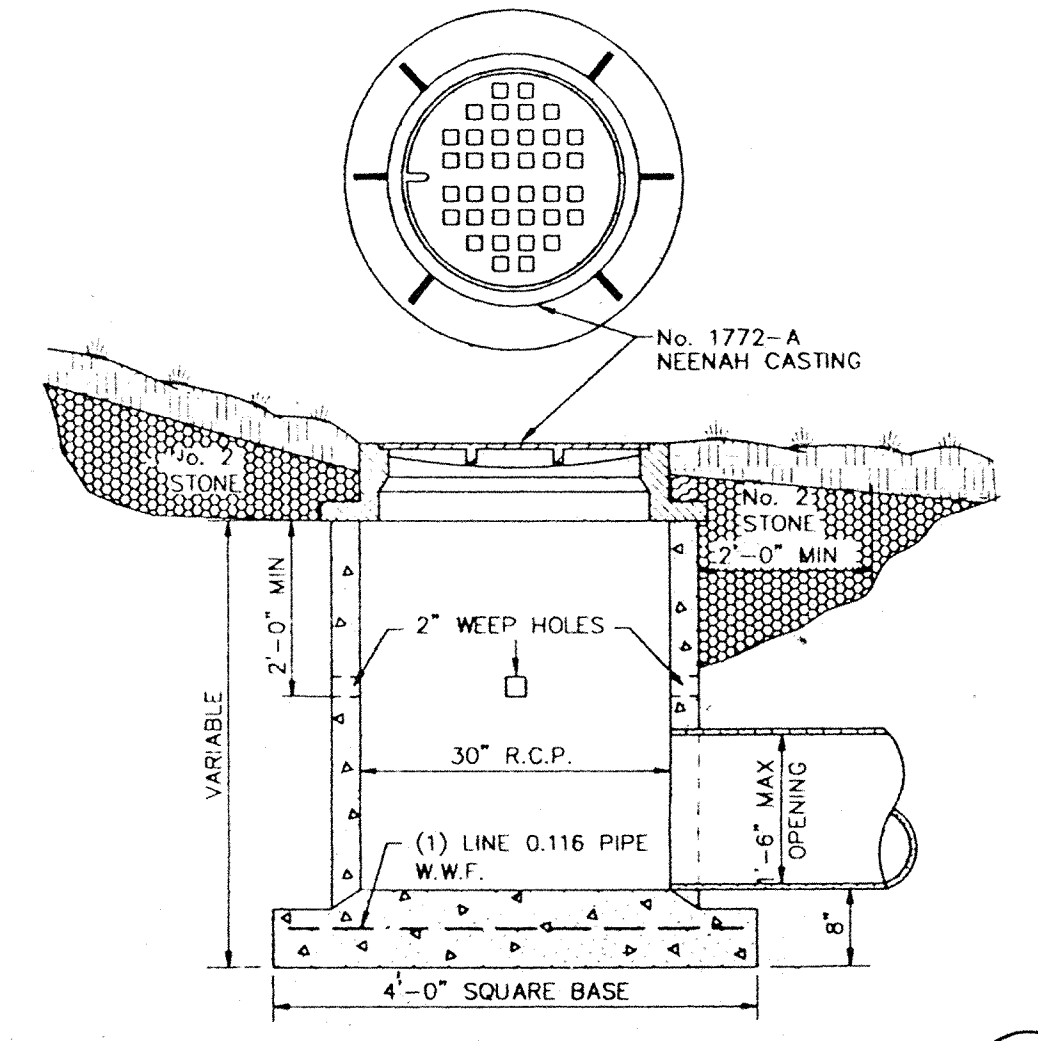
**TRENCH & PIPE EMBEDMENT DETAIL**

5  
S-23



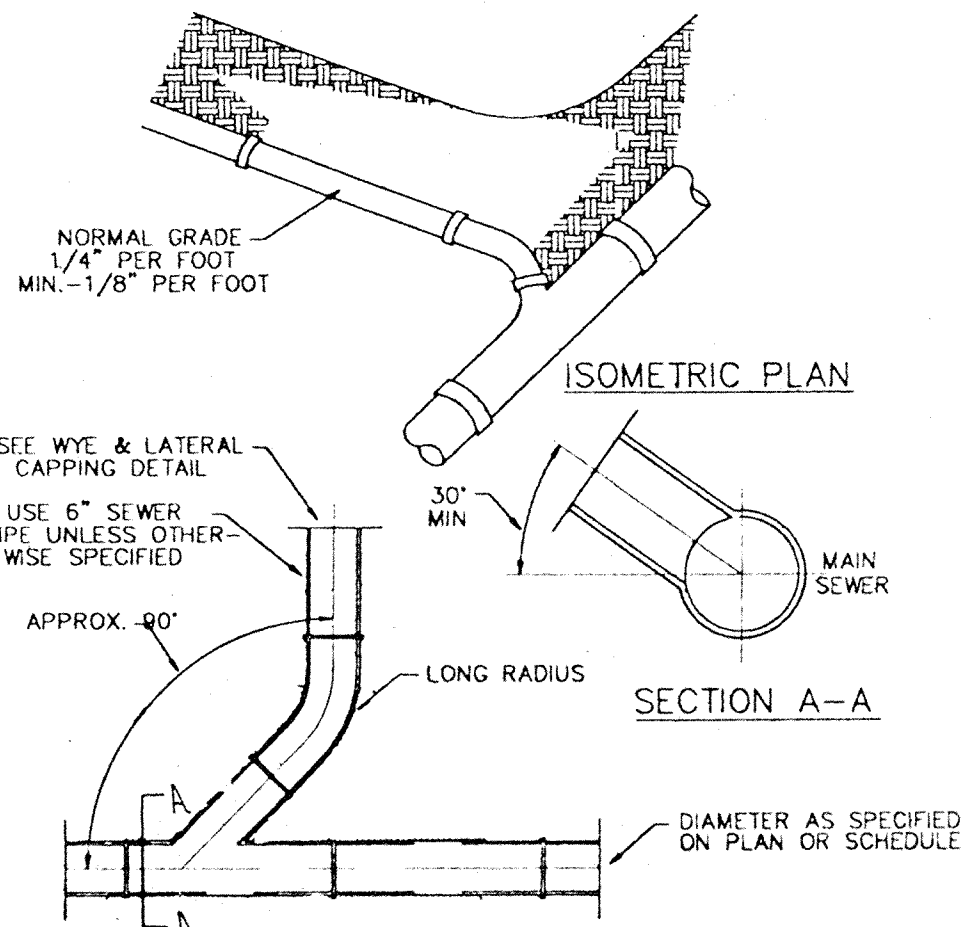
**PRECAST REINFORCED CONCRETE MANHOLE**

1  
S-23



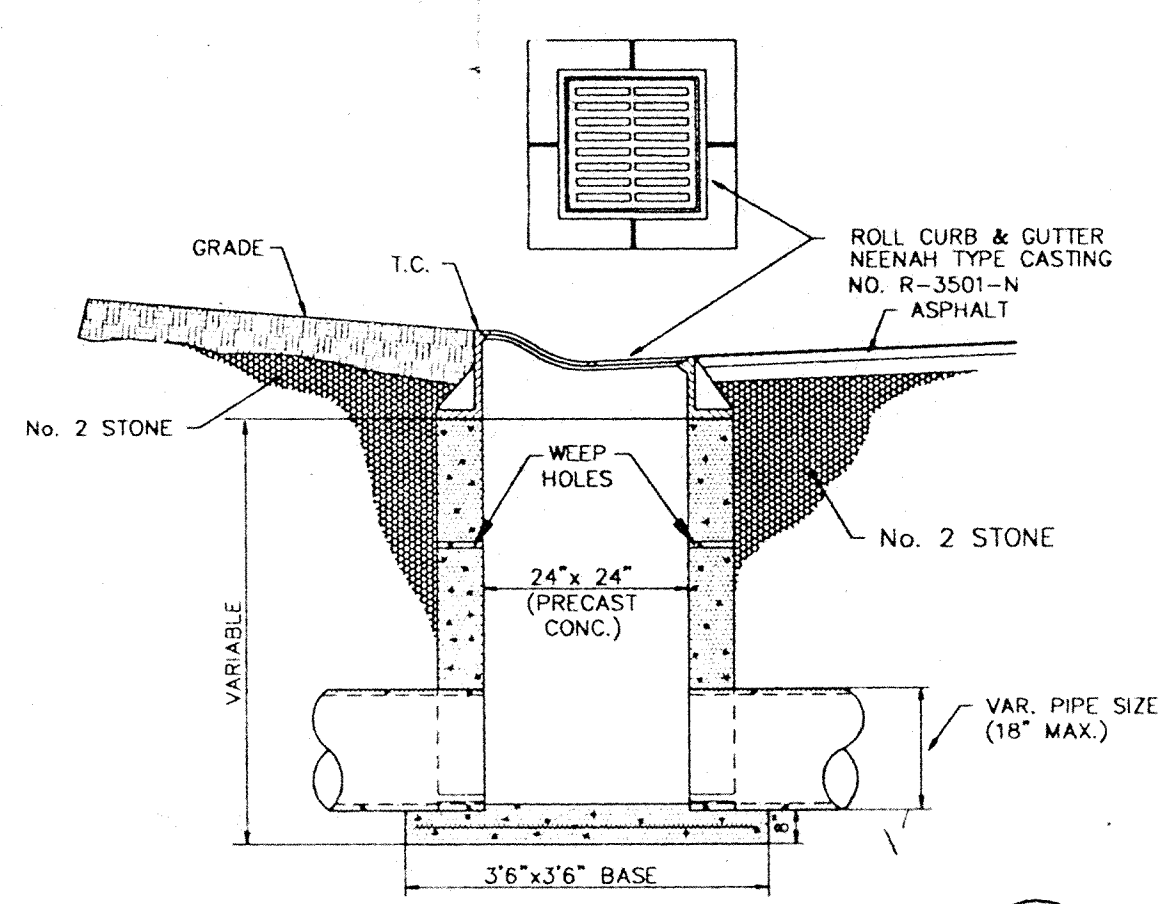
**STORM MANHOLE DETAIL**

6  
S-23



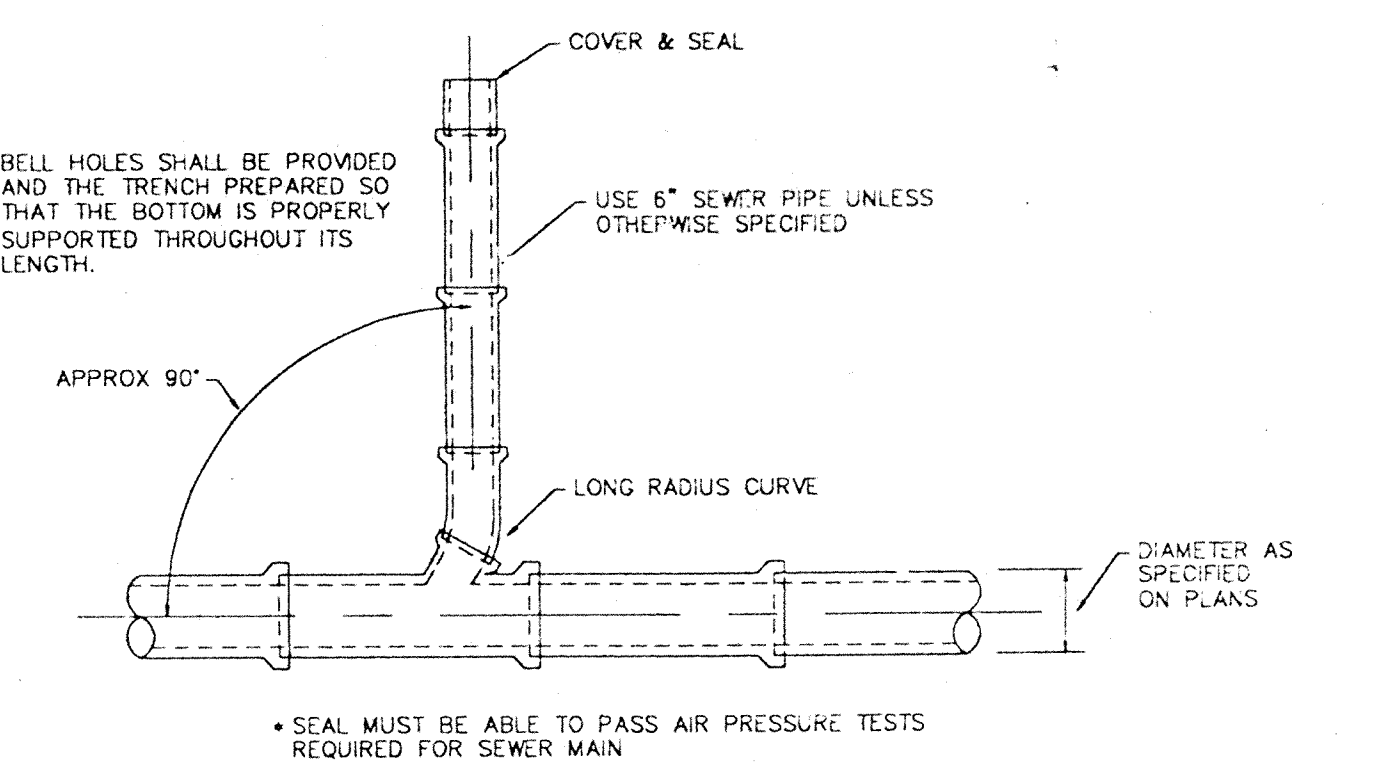
**WYE & LATERAL CAPPING DETAIL**

2  
S-23



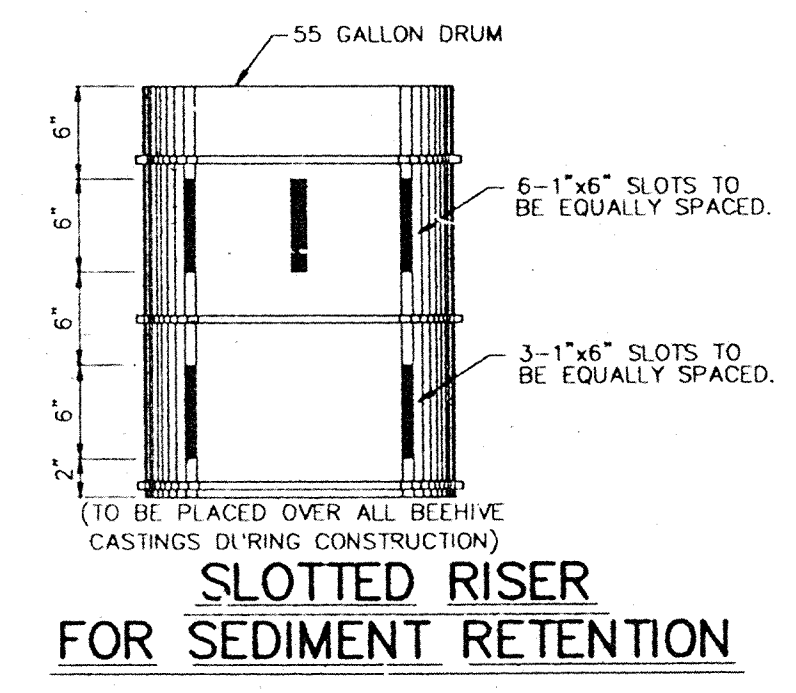
**ROLL CURB INLET**

7  
S-23



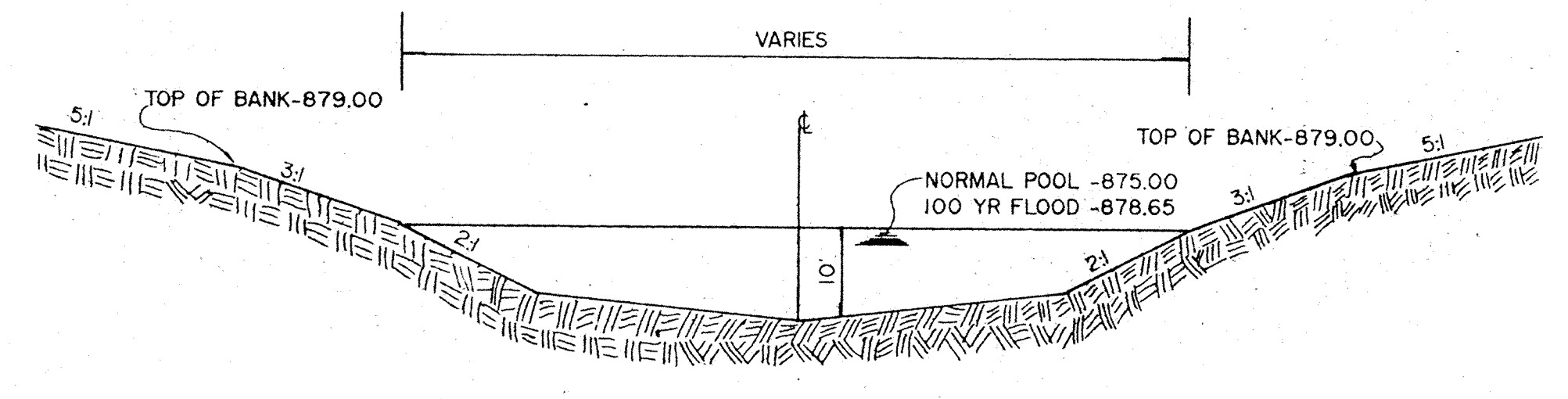
**TYPICAL SWALE SECTION**

3  
S-23



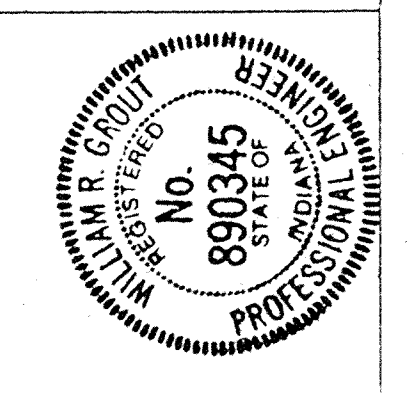
**SLOTTED RISER FOR SEDIMENT RETENTION**

8  
S-23



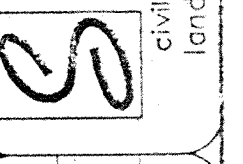
**TYPICAL LAKE SECTION**

16  
S-23



William F. Lopez  
8/30/90  
CERTIFIED

SCHEIDER ENGINEERING CORPORATION  
3070 NORTH POST ROAD  
INDIANAPOLIS, INDIANA 46276-6518  
(317) 899-8282  
civil engineers  
land surveyors



PROJECT: SUTTON PLACE SEC. 1 751.01  
PREPARED FOR: THE INLAND GROUP  
TITLE: GENERAL DETAILS

**FILED**

JUN 26 1997  
OFFICE OF HAMILTON COUNTY SURVEYOR

SHEET 9 OF 23  
26

EARTHWORK

1. SCOPE OF WORK:

A. Extent: The work required under this section consists of all excavating, filling, rough grading and related items necessary to complete the work indicated on the drawings and described in the specifications. The Contractor shall notify in writing the owners and the engineers of any changes, errors or omissions found on these plans or in the field before work is started or resumes.

1. In general the items of work to be performed under this section shall include: clearing and grubbing, removal of trees and stumps (where required), protection of trees to remain, stripping and storage of topsoil, fill compaction and rough grading of entire site as indicated on the drawings.

2. Excavated material that is suitable may be used for fills. All unsuitable material and all surplus excavated material not required shall be removed from the site. The location of dump and length of haul shall be the Contractor's responsibility.

3. Provide and place any additional fill material from off the site as may be necessary to produce the grades required. Fill obtained from off site shall be of kind and quality as specified for fills herein and the source approved by the Owner.

4. The Contractor shall accept the site as he finds it and shall remove all trash, rubbish and debris from the site prior to starting excavation.

B. Work not included: The following items of related work are specified and included in other sections of these specifications:

- 1. Excavation, grading and backfilling for utility lines.
2. Storm drainage systems.
3. Sanitary sewer systems.
4. Water supply systems.
5. Streets and paving.

2. BENCH MARKS:

Maintain carefully all bench marks, monuments and other reference points; if disturbed or destroyed, contractor shall contact engineer.

3. REMOVAL OF TREES:

A. Remove all trees and stumps from area to be occupied by road and surfaced areas. Removal of trees outside these areas shall only be done as noted on drawings or approved by the Owner.

B. All brush, stumps, wood and other refuse from the trees shall be buried onsite or burned after proper permits are obtained (where applicable). The location of on site bury pits shall be designated by the owner.

4. PROTECTION OF TREES:

A. General Protection: The Contractor shall be responsible for the protection of tops, trunks and roots of existing trees on the project site that are to remain. Existing trees subject to construction damage shall be boxed, fenced or otherwise protected before any work is started; do not stockpile within branch spread. Remove interfering branches without injury to trunks and cover scars with tree paint.

5. HANDLING OF TOPSOIL:

A. Remove all organic material from the areas to be occupied by roads, walks, buildings, and parking areas. Pile and store topsoil at a location where it will not interfere with construction operations. Top soil shall be reasonably free from subsoil, debris, weed, grass, stones, etc.

B. After completion of site grading and subsurface utility installation, top soil shall be replaced in areas designated on the erosion control plan for seeding and/or sodding. Any remaining top soil shall be used for finished grading around structures & landscaping areas.

6. DISPOSITION OF UTILITIES:

A. Rules and regulations governing the respective utilities shall be observed in executing all work under this section.

B. It shall be the responsibility of each contractor to verify all existing utilities and conditions pertaining to his phase of the work. It shall also be the contractors responsibility to contact the owners of the various utilities before work is started.

C. If active utilities are encountered but not shown on the drawings, the Engineer and utility representative shall be advised before work is continued.

D. Inactive and abandoned utilities encountered in excavating and grading operations shall be reported to the Engineer and utility company. They shall be removed, plugged or capped as directed by the utility company and Engineer.

7. SITE GRADING:

A. Grades: Contractor shall perform all cutting, filling, compacting of fills and rough grading required to bring entire project area to grade as shown on the drawings.

B. Rough Grading: The tolerance for paved areas shall not exceed 0.10 feet plus or minus the established subgrade. All other areas shall not exceed 0.10 feet plus or minus the established grade. All banks and other breaks in grade shall be rounded at top and bottom.

C. COMPACTION REQUIREMENTS:

- 1. All building pad areas shall be compacted to standards specified by local and/or state building codes.
2. For compaction requirements of paved areas, see street specifications.

STORM SEWER SYSTEMS

1. SCOPE OF WORK

The work under this section includes all storm sewers, storm water inlets, and related items, including excavating and backfilling, necessary to complete the work shown on the drawings.

2. MATERIALS:

A: Storm Sewers:

1. Reinforced concrete sewer pipe shall conform to ASTM C-76 latest revision with joints conforming to ASTM C-443 latest revision.

B: Manholes:

1. Precast reinforced concrete manhole sections and steps shall conform to ASTM C-478 latest revision.

2. Castings shall be of uniform quality, free from blow holes, porosity, hard spots, shrinkage distortion or other defects. They shall be smooth and well-cleaned by shotblasting or by some other approved method. They shall be coated with asphalt paint which shall result in a smooth coating, tough and tenacious when cold, not tacky or brittle. They shall be gray iron meeting ASTM A-48 latest revision.

3. Joints - manhole sections shall be jointed with rubber type gaskets. The rubber type gaskets shall meet ASTM C-443 latest revision.

C: SUBDRAINS:

1. Perforated plastic pipe subdrains shall conform to ASTM. D 3034 SDR 35.

3. APPLICATION:

A: Permits and Codes: The intent of this section of the specifications is that the contractor's bid on the work covered herein shall be based upon the drawings and specifications but that the work shall comply with all applicable codes and regulations as amended by any waivers. Contractor shall furnish all bonds necessary to get permits for cuts and connections to existing sewers.

B: Local Standards: The term "Local Standards" as used herein means the standards of design and construction of the respective municipal department or utility company, City of Carmel.

C: Existing Improvements: Maintain in operating condition all active utilities, sewers and other drains encountered in the sewer installation. Repair to the satisfaction of the owner any damage to existing active improvements.

D: Workmanship: To conform to all local, state and national codes and to be approved by all local and state agencies having jurisdiction.

E: Trenching: Lay all pipe in open trenches, except when the local authority gives written permission for tunneling. Open the trench sufficiently ahead of pipe-laying to reveal any obstructions. The width of the trench shall be the inside pipe diameter plus 24 inches for 12 inches above the pipe. Sheet and brace trench as necessary to protect workmen and adjacent structures. All trenching to comply with Occupational Safety and Health Administration Standards. Keep trenches free from water while construction is in progress. Under no circumstances lay pipe or appurtenances in standing water. Conduct the discharge from trench dewatering to drains or natural drainage channels.

F: Special Supports: Whenever, in the opinion of the Engineer, the soil at or below the pipe grade is unsuitable for supporting sewers and appurtenances specified in this section, such special support, in addition to those shown or specified, shall be provided as the Engineer may direct, and the contract will be adjusted.

G: Backfilling: For a depth of a least 12 inches above the top of the pipe, backfill with earth or granular material free from large stones, rock fragments, roots or sod. Tamp this backfill thoroughly, taking care not to disturb the pipe. For the remaining trench depth, backfill with earth or granular material containing stones or rocks not larger than 4 inches. Backfill under walks, parking areas, driveways and street shall be granular material only - thoroughly compacted by approved methods. Trenches parallel to and within 10 feet of paved roadways shall be constructed the same.

H: Manhole Inverts: Construct manhole flow channels of concrete, sewer pipe or brick, smoothly finished and of semi-circular section conforming to the inside diameter of the connecting sewers. Make changes in size or grade gradually and changes in direction by true curves. Provide such channels for all connecting sewers at each manhole.

I: Subdrains: All subdrains onsite shall be of the size as shown and shall be placed as shown on the plans. They shall be constructed to the grades shown. All drains constructed offsite as part of the outlet drain will be located as shown.

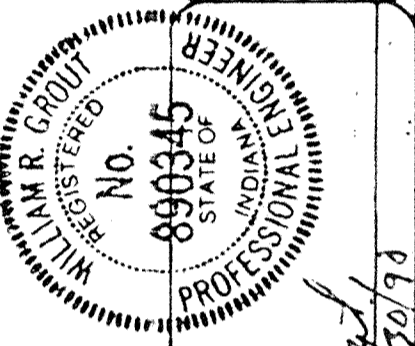
J: Utilities: It shall be the responsibility of each contractor to verify all existing utilities and conditions pertaining to his phase of the work. It shall also be the contractors responsibility to contact the owners of the various utilities before work is started. The contractor shall notify in writing the owners or the engineer of any changes, errors or omissions found on these plans or in the field before work is started or resumed.

WATERMAINS

1. SCOPE OF WORK:

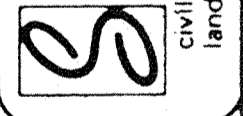
A. Watermains to be laid in accordance with specifications and drawings provided by Indianapolis Water Company.

Table with columns: DRAWN, CHECK, NO., BY, DATE, CHECK, NO., BY, DATE, CHECK. It is a revision log table.



William R. Groulx, 8/20/93, CERTIFIED

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PROJECT: SUTTON PLACE SEC. I, JOB NO. 75101, PREPARED FOR: LAND INNOVATORS, TITLE: SPECIFICATIONS, SCALE: N/A

FILED JUN 26 1997 OFFICE OF HAMILTON COUNTY SURVEYOR