Drain: BUCKHORN ORAW	Drain #: <u>27/</u>
Improvement/Arm: Buckhard @-	SECTION 2
Operator: JDH	Date: //-3-03
Drain Classification: Urban/	Rural Year Installed: 1994

GIS Drain Input Checklist

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

912-11-3 N/A GH 11-5 GH 11-5 NA GA. 11-5 GA. 11-6 GA. 11-6 Done v slm Done Slm GA4-11-5

Gasb 34 Footages for Historical Cost Drain Length Log

Drain-Improvement: Buckthen plan -Section 2

Drain Type:	Size:	Length Marking caap (Ascunst)	Length (DB Query)	Length Reconcile	Price:	Cost:
550	6"	14,965'	13,494'	-1,471'		
RCP		1053'	1.053	ø		
	15*	484'	484 1	ø		
	18*	<u>/</u> ,zn'	<u> </u> z11'	ø		
	21"	682'	682'	ø		
	Zym	197'	192'	ø		
	27"	266'	266'	ø		
	304	616'	6161	ø		
<u></u> , <u></u>	36"	437'	437'	ø		
СМР	8 ⁿ	40'	401	ø		
10 TO 10 1						
	Sum:	_/9.9 <i>5</i>]'	18480'	-1.471'		

Final Report:

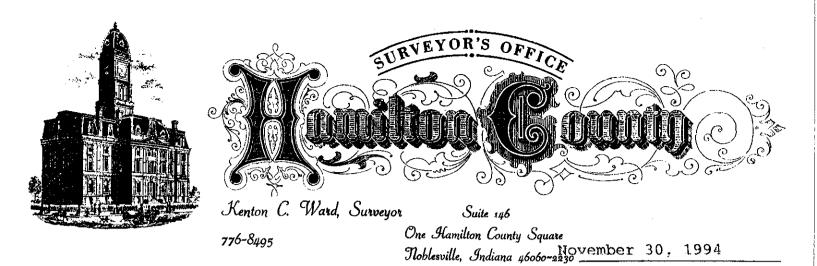
Comments:

SUEVAYOR'S REPORT SHOWS 14,965 OF 6" SSD.

AS BULLTS SHOW 13494' OF 6"550.

SURVEYOR'S FINAL REPORT SHOUS INCORRECT LENGTH OF 19,723' FOR TOTAL LANGTH

This copy printed from the Digital Archive of the Hamilton County Surveyor's Office; One Hamilton Co. Square, Ste. 188, Noblesville, In 46060



TO: Hamilton County Drainage Board

RE: Buckhorn Drain

Attached is a petition, non-enforcement request, plans, calculations, quantity summary, and assessment roll for the Buckhorn Drain. I have reviewed the submittals and petition and have found each to be in proper form.

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

6" 12" 15" 18" 8"	RCP RCP RCP CMP	$\begin{array}{r} 190 \\ 40 \end{array}$	feet feet feet	21" 24" 27" 30" 36"	RCP RCP RCP RCP RCP	1372 fee 197 fee 266 fee 616 fee 437 fee	t t t
14x23	ERCE	» 30	feet		. 1	AND ANY	

The total length of the drain will be 19,971 feet.

The retention pond (lake) located in the common areas 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 pond (lake) will be the responsibility of the Homeowners Association. The Board will however, retain jurisdiction for ensuring the storage volume for which the lake was designed will be retained. Thereby, allowing no fill or easement encroachments.

Page #2

The subsurface drains (SSD) to be part of the regulated drain are those located under the curbs and those main lines between lots or in rear yards. Only the main SSD lines which are located within the right of way are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain. The portion of the SSD which will be regulated other than those under curbs are as follows: Rear of Lots 1-3, 6-8, 44-46, Between Lots 26 and 17 & 18, Rear Lots 30, South side of Lots 17, 27, and 28, North side Lot 59, between Lots 39 and 37.

I have reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. I also believe that no damages will result to landowners by the construction of this drain. I recommend a maintenance assessment of \$30.00 per lot, \$5.00 per acre for roadways, with a \$30.00 minimum. With this assessment the total annual assessment for this drain/this section will be \$ / 966.50

Parcels assessed for this drain may be assessed for the Osborn-Collins or Williams Creek Drain at sometime in the future. Lots 1-5 and 55 & 46 assessed for this drain will also be assessed for the O.F. Henley Drain.

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

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

I recommend the Board set a hearing for this proposed drain for January 1995.

Kenton C. Ward Hamilton County Surveyor KCW/no



STANDBY LETTER OF CREDIT

Irrevocable Letter of Credit No. 1082

Date: October 6, 1994

BENEFICIARY

FOR ACCOUNT OF

Hamilton County Commissioners Hamilton County Courthouse Noblesville, IN 46060

Williams Creek Development Co., 606 Station Drive Carmel, IN 46032

Dear Commissioners:

We hereby establish our Irrevocable Letter of Credit No. 1082 in your favor, for the account indicated above, for a sum or sums not exceeding an aggregate amount of \$215,480.00 (Two Hundred Fifteen Thousand Four Hundred Eighty & 00/100 US Dollars).

Funds are available by your draft(s) at First Federal Savings Bank of Kokomo 200 W. Mulberry Kokomo, Indiana 46901, upon the presentation by the Board of Public Works acting under its authority, a letter signed by the Board of Public Works enumerating any and all improvements and costs thereof not completed as required in Buckhorn Subdivision for the construction or installation of storm sewers and erosion control.

Drafts are to be accompanied by:

1. The original of this letter of Credit No. 1082.

2. Beneficiary's signed statement stating that Williams Creek Development Co., Inc. has failed to complete the construction or installation of the storm sewers and erosion control in Buckhorn Subdivision.

All drafts drawn under this Letter of Credit are to be endorsed hereon and shall bear the clause; "Drawn under First Federal Savings Bank of Kokomo of Kokomo Indiana Letter of Credit No. 1082 and must be drawn and presented at this office on or before October 6, 1995.

We hereby agree with you that all drafts drawn under and in compliance with the terms of this Letter of Credit will be duly honored upon proper presentation.

Except as other wise expressly stated herein, this credit is subject to the Uniform Customers and Practice for Documentary Credits (1993 Revision), International Chamber of Commerce, Publication No. 500.

Very truly yours,

Duane A. Davis This copy printed from the Digital Archive of the Hamilton County Streen's Pfes Grater to Consumer, Ste. 188, Noblesville, In 46060 Commercial/Consumer Loans



TO: Hamilton County Drainage Board

RE: Buckhorn Drain Buckhorn Sec. 1

Attached are as-builts, certificate of completion & compliance, and other information for Buckhorn Sec.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 November 30, 1994. The changes are as follows: STR 145 to 144 consists of 12" RCP that was shortened from 139' feet to 132' feet. STR 144 to 143 consists of 12" RCP which was shortened from 103' feet to 100' feet. STR 143 to 142, consists of 12" RCP which was shortened from 61' to 60' feet. STR 142 to 141 consists of 30' feet of 14x23 RCP which was replaced with 26' feet of 15" RCP. STR 141 to 140 consisted of 18" RCP at 161' feet. It was changed to 15" RCP at 156' feet. There were three typing errors on the original report. The correct 18" RCP length is 1372' feet. The 21" RCP total should have been 682' feet and the 6" SSD is regulated across lot 58 not 59.

The length of the drain due to the changes described above is now 19,723 feet.

The non-enforcement was approved by the Board at its meeting on January 23, 1995.

The bond or letter of credit from First Federal Savings Bank, number 1082, dated October 6, 1994, in the amount of \$215,480, has been released.

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

Sincerely, SLA

Kenton C. Ward Hamilton County Surveyor

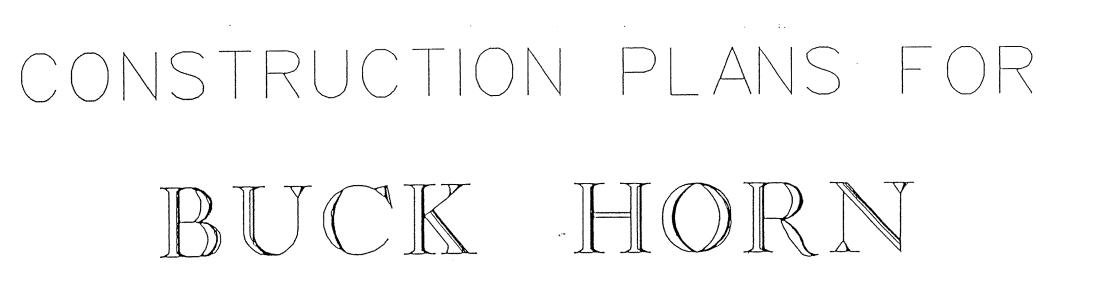
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SPECIFICATIONS
3-6	SITE UTILITY & GRADING PLANS
7 - 11	STREET PLAN & PROFILES
12-15	STORM PLAN & PROFILES
16-20	SANITARY PLAN & PROFILES
21	CUL-DE-SAC & INTERSECTION DETAILS
22-23	ENTRANCE DETAILS
24-27	EROSION CONTROL PLANS
28-29	DETAILS

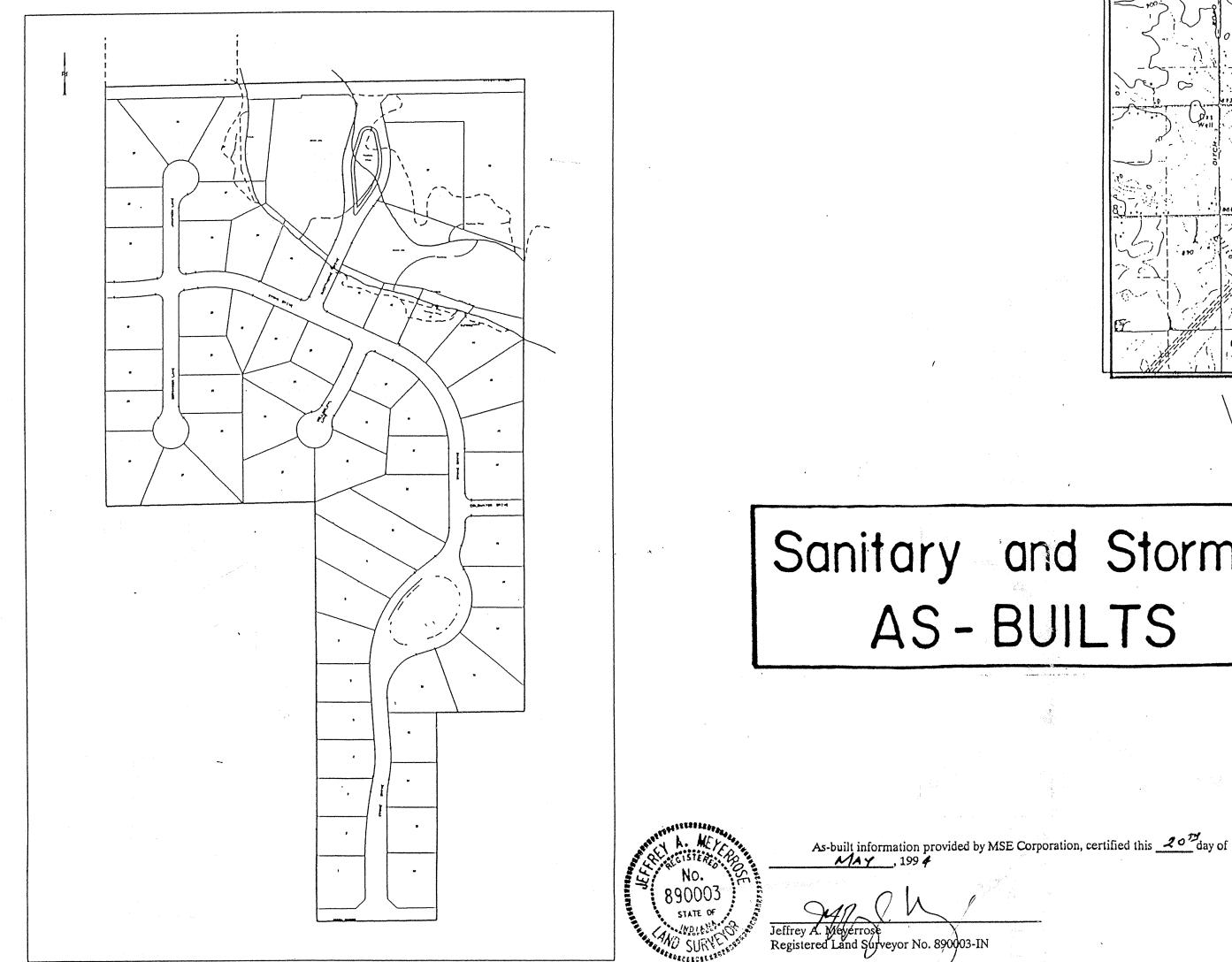
SHEET NO.	REVISIONS
17	6/16/93 REVISED SANITARY INVERTS
18,19	6/16/93 REVISED SANITARY SLOPES
2	6/16/93 REVISED SANITARY SPECIFICATIONS
17	7/19/93 REVISED INV. STR. *216
17	7/29/93 ADD PROFILE 216 - 618
2,5,6	1/18/94 SEE SHEETS
& 29	
17,18,20,28	2/15/94 See Sheets
15	,
6,19	2/23/94 See Sheets
3, 6, 23, 29	3/9/94 See Sheats
3.4.23A	3/14/94 See Sheets

NOTES:

CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PERMIT ISSUING AGENCIES WITHIN THE TIME FRAME SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.

ANY ALTERATIONS TO THESE PLANS NOT AUTHORIZED BY MSE ENGINEERING AND NOT IN ACCORDANCE WITH THE PLANS AND RECORDS ON FILE AT MSE ENGINEERING OFFICES SHALL RELIEVE MSE ENGINEERING OF RESPONSIBILITY FOR OVERALL ACCURACY OF PLANS.



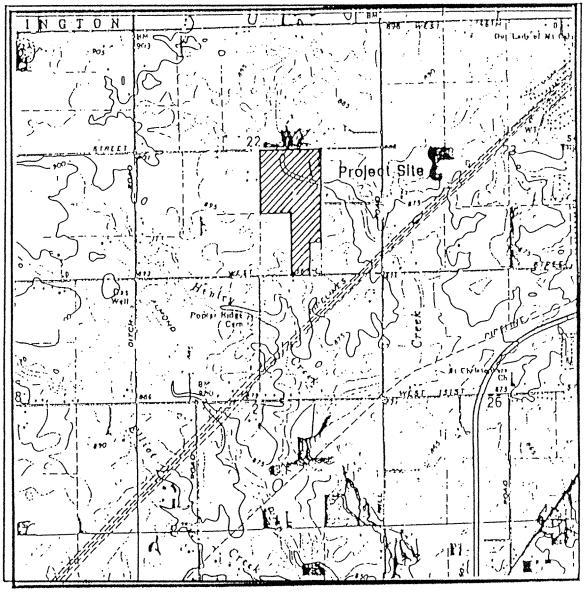


PLANS PREPARED FOR WILLIAMS CREEK DEVELOPMENT CO. INC. 606 STATION DRIVE CARMEL, IN 46032 **As-Builts Information** (317) 844-3975 Underdrain Laterals Added Info. 2-7-95

> PREPARED BY: **MSE** Englineering MSE CORPORATION 941 NORTH MERIDIAN INDIANAPOLIS, IN 46204 317 634-1000 317 634-3576 FAX

ted from the Digital Archive of the Hamilton County Surveyor's Office. One Hamilton (

Rev. 2-7-95





Sanitary and Storm AS - BUILTS

HELED THIS 21 DAY OF January Professional Engineer No. 920299 - Indiana

PROJECT DATA ACRES : 55.659 LOTS : 58 LOTS/ACRE : 1.04

FILED

FFB 10 1995 OFFICE OF HAMILTON COUNTY SURVEYOR

JOB NO. 114-0197 SHEET 1 OF 29

......

SITE WORK GENERAL NOTES AND SPECIFICATIONS

GENERAL CONDITIONS

2

3

4

5

A

- 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 Contractor's responsibility to determine the exact location of all existing utilities in the vicinity of the construction area prior to starting construction.
- C. The Contractor shall be responsibile for notification and coordination of all construction with the 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 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 performed in conjunction with this project be installed according to these specifications. The Engineer will be required to certify that certain portions of this project were completed as per the construction plans. Therefore it is necessaary to obtain approval and acceptance by the local, county, and state agencies that the construction was completed in compliance with these plans and specifications.
- The designation A.S.T.M. shall refer to the American Society of Testing and Materials standards. The latest revision of listed A.S.T.M. standards shall prevail.
- G. The designation LN.D.O.T. shall refer to the Indiana Department of Transportation Standard Specifications dated 1988 and all subsequent revisions.

CLEARING AND GRUBBING

- A. Clearing and grubbing shall consist of cutting, removal and satisfacto disposal of all trees, down timber, brush, projecting roots, stumps, rubbish, boulders, broken concrete, fencing (as designated), and other material on the project site and within the boundary as shown on the Construction Documents and/or as designated by "construction limits".
- B. Special care shall be taken to insure that trees to be left remaining in the project area shall not receive limb, bark or root injuries. When such injuries occur, all rough edges of scarred areas shall be removed in accordance with accepted horticultural practice and the scars coated thoroughly with an asphaltum base tree paint.
- C. All "ur suitable material" from clearing operations stated in Item II-A shall be removed to disposal area(s) off the project site; unless a Bury Pit is utilized. Bury Pits shall not be located below proposed building or pavement areas nor below proposed drainage structures or impoundment areas. Written permission of project owner must be obtained for bury pit construction on site.
- \mathcal{O}_{+} Materials shall not be disposed of by burning unless approved by the local Fire Marshall.

III. TREE REMOVAL AND PROTECTION

- Λ_{i} Trees shall be removed from the project site only in areas occupied by roadway and surfaced areas in accordance with specifications of the City of Carmel.
- Trees shall be removed from the project site as directed by the Developer and so designated.
- C. Trees shall be removed from the project site where they interfere with the placement of storm or sanitary sewers.
- D. The Contractor shall endeavor to save and protect trees of value and worth which do not impair construction of improvements as designated. In the event cut or fill exceeds 0.5 foot over the root area, the Developer shall be consulted with respect to protective measures to be taken, if any, to preserve such trees.
- The Contractor shall be responsible for determining the method of protection of tops, trunks and roots of existing trees on the project site which are to remain. Existing trees exposed to potential damage shall be boxed, fenced or otherwise protected before any adjacent work is started. Earth, construction material, and equipment shall not be stockpiled or stored within the spread of branches. Branches which need to be removed or are broken shall be neatly trimmed and scars shall be covered with tree paint.
- F. See note II-B.

IV. STRIPPING OF TOPSOIL

- The Contractor shall verify that all topsoil has seen removed in the areas to be occupied by road, walks and designated building areas. Topsoil shall be removed to a depth of 6 inches or deeper, if necessary, to assure the removal of vegetation matter where required.
- Topsoil shall be kept separated from suitable fill materials and shall not be used as fill under pavement and/or building areas.
- Topsoil shall be stored at a location where it does not interfere with construction operations. Excess topsoil shall be removed from the site. Topsoil storage areas shall be approved in writing by the Owner.
- Topsoil shall be reasonably free from subsoil debris and stones.

V. <u>GRADING</u>

- The Contractor shall perform all grading operations to bring subgrades, after final compaction, to the grades required for site improvement.
- B. Subgrade shall be proofrolled with appropriate equipment and all spongy and otherwise unsuitable material shall be removed and replaced with suitable material.
- Subgrade for streets shall be prepared in compliance with the Ham. Co. Highway Dept. Subgrade for streets shall be compacted to 100% of standard proctor in the upper 6" of depth. Depths of embankment below the upper 6" shall be compacted to 95% of standard proctor. See Pavement Construction Section X1.
- D. All fill material shall be formed from soil free of deleterious material. Prior to placement of fill, a sample of the proposed fill material should be submitted to the soils engineer for his approval. The fill material should be placed in layers not to exceed eight (8") inches in loose thickness and should be spread and dried to a moisture content which will permit proper compaction.
- E. All fill material in areas outside of building and pavement areas shall be compacted lightly and protected from crosion. Areas of building construction shall not have unsuitable material placed in that location, and fill shall be compacted in accordance with the Soils Engineer's report (minimum of 95% standard proctor).

VI. SANITARY SEWER CONSTRUCTION

- Standard specifications of the Clay Waste Distri Department of Highways shall apply for all work Pipe shall be installed in accordance with Sect
- Sanitary sewer pipe shall be PVC in accordance 3034 (S.D.R. 35) and ASTM 2321. PVC pipe shall bell and gasket. The pipe shall be made of PVC a cell classification of 12454B.
- PVC sewer fittings shall conform to the requir D-3034-89 specification. Fittings in sizes the 3. be molded in one piece with elastomeric joint socket depths as specified in sections 6. Fittings 10" and larger shall be molded or accordance with section 7.11 with manufacturers bells and gaskets. Wall thickness of fittings 26 as defined in section 7.4.1 of the specificat for elastomeric joints shall be molded with a sectional area of 0.20 square inches and conf 477 specification. Fittings shall be manufact or equal.
- All sanitary manholes shall be "precast concret accordance with ASTM C-478 and Section 720. /4 . conform to C-443. Kent Seal or equivalent applied to all joints and between riser rings Manhole step spacing shall be no more than 16-.
- Butyl rubber coating shall be applied around joint from 6-inches above to 6-inches below eac 5. appropriate primer shall be applied prior to rubber coating. Inside joints to be filled with material.
- The casting elevations are set by plan. However are to be adjusted in the field by t representative, should a discrepancy occur betw anl existing grade. New manhole ring and c installed to establish grade. Maximum height rings shall be 12-inches.
- 7. Backfill around all structures and all cuts und with granular material. Trenches opening wi paved roadways shall be backfilled with granula accordance with Section 211. Backfill un shall be granular, unless the walks are construof 6 months after backfill has been in-place.
- 8. The Contractor shall be responsible for verif state highways, city and county permits have been the developer prior to start of construction.
- 9. The Contractor shall be required to furnish th Engineer with a set of prints, marked in red p actual sewer location and invert, to include lat depth and length. Such "as-built" prints must the Engineer before the final contract pa authorized. The sanitary sewer laterals and stu shall be indicated on the surface with a metal immediately above said termination point.
- 10. All sanitary sewer lines upon completion will pass an infiltration weir test and a low press unless otherwise directed by the Engineer. S be conducted according to NCPI Standard Method witnessed by an Engineer and a representative Waste District.
- 11. Deflection tescs shall be performed on all after the final backfill has been in-pla days. No pipe shall exceed a vertical deflection deflection test results. (*The following non-flexible pipes: concrete pipe, ductile iron iron pipe.) The deflection test shall be per nine-point mandrel. Proving rings shall be ave
- 12. All mandrel testing shall be observed by Engineer for certification and a representativ Waste District.
- 13. The ends of laterals are to be plugged tight plast__ disc or cap capable of withstanding a lo test without leakage.
- 14. Bedding for flexible pipe shall be No. 8 crush 6-inches below the pipe to 12-inches above the for rigid pipe shall be No. 8 crushed stone below the pipe to the spring line of the pipe point to 12-inches above shall be fill sand Manholes shall be placed on no less than 6-in crushed stone bedding.
- 15. Water and sewer line crossings and separation accordance with Ten States' Standards.
- 16. Trench shall be opened sufficiently ahead of reveal obstructions, and shall be property pi barricadec when left unattended.
- 17. No water shall be permitted to flow into the system during construction. Contractor shall to keep the water level below the pipe. Pump be directed to a storm outlet. Any pipe en sewers shall be plugged, until such time as sewers have been completed and the lines have lists.
- In. All newer interais installed by the mainline In tradition the manner on the mother them convert
- 19. Forty-eight (48) hours notice shall be giv Regional Waste District prior to the construction. Also, 48-hours notice shall be any testing done on the sewer.
- 20. Manhole castings shall be stamped "SANITARY Casting R 1642 or equal) and be self-sealing castings shall be Heenah R-1916-F1 and Al Sewer",
- 21. The minimum slope for sewer acceptance by th Regional Waste District are:

Size of Pipe	L'inimum Constru
B-inch	0.40
10-inch	0.28
12-inch	0.15
15-inch	0.12
18-inch	

- 22. The Contractor shall provide measurements of the slope of the sewer for each manho's section as construction progresses. Such measurements shall be certified by a Registered Land Surveyor or Engineer and be available on-site for observation by the District's impector. No more than three manhole nections can be constructed in advance of such measurements.
- 23. In the event the Contractor does not meet the minimum slopes, the sewer section and any other affected sewer sections shall be reconstructed to meet such minimum slopes.

0

	E	I F	 	G		Н	
	VII. А.	EROSION PROTECTION DURING CO The Contractor shall rovide adequa construction.	ate crosion protection measu	res during	A. See D right-o	CRETE CURB AND WALK ctail Sheet for type and de of-way shall be constructed in etc shall be ready mixed	tails. Curbs and walk n accordance with Har Portland cement cor
rict and Indiana k and materials. action 715.		 Rip-rap at locations Jesignated on Swales draining the fite shall be m be responsible for tablishing gras 	nulch seeded or sodded and Cont ss cover.		Aggre days si fabric	gate shall conform to A.S. I hall be 4000 p.s.i. Where conforming to A.S.T.M. A-I	required, reinforceme
Ce with ASTM D- all have grooved C plastic having		3. Construction operations conducted neatly finish graded and mulch see	d on private or city-owned prope ded.	erty shall be		Place concrete only on a n material. Place no concrete	e on muddy or frozen i
lrements of ASTM chrough 8" shall nts and minimum 6.2 and 7.3.2.	∨111 ∧.	 STORM SEWER CONNECTION Storm sewer structures shall comply with and all agencies with respect to design an 	a quality of construction.			Concrete shall be deposite When concrete is to be pl less, Paragraph 702.10 of apply.	aced at an atmosphe
r fabricated in rs standard pipe ngs shall be SDR ations. Gaskets	B.	All storm sewer construction inside pub shall be in accordance with the Hamilt notify the Hamilton County Surveyor fo	$\alpha \alpha = \alpha \alpha \alpha \alpha \beta $		1	Except as otherwise spee described in Section 501.17	ified, cure all conci of the I.N.D.O.T. Spe
a minimum cross- form to ASTM F- actured by Harco	C.	storm sewer construction. Where reinforced concrete pipe is show accordance with A.S.T.M. C-76 Class III	wn on the construction plans, it I Wall "B", unless otherwise spec	shall be in fied on the	requir	ill GRADING AND SEED	
ete" manholes in O-Rings shall shall also be gs and castings, 6-inches,	.כי	plans. Where corrugated metal pipe is shown o unless otherwise specified and shall have by the mant ficturer. C.M.P. may be eith in accordance with A.S.T.M. A-444.	e the connecting bands and sents her aluminum pipe or zine coated	steel sheets	insure the to establ unifor	e finish grades are met after psoil shall not be less than ished on the plans. Inters in and smooth.	r rolling and settlement 4". New grades shall a cetions of new grade
nd each manhole each joint. The to applying the ith precoat plug	13. 17.	Manholes, catchbasins, and inlets may concrete. Precast concrete and steel for manho A.S.T.M. C-478.		*	seede other acre r	izer and agricultural limest d and mixed into the top ty approved equipment. Fer- ind agricultural limestone a	wo inches of soil with tilizer shall be spread
er, the castings the Engineer's tween plan grade cover shall be ght of adjusting	G. 11.	A.S. Livi, C-478. Castings shall be as shown on the Structu Granular backfill shall be required for Hamilton County specifications.	ure Data Table. all crossings under pavement ar	cas, per the	per ac Blueg Annu	ding mixture in stripping, cu cre with a mixture as follow grass, 18 lbs. Delta Kentue al Ryegrass. Wood cellulos be applied at a rate of 3/4 to	s: 18 lbs. Kentucky B ky Bluegrass, 10 lbs. se fibre, straw or mule
nder paved areas	1X.	UTILITIES			A The r	EMODIFIED SOIL (Devel use of Lime Modification sh	all be used to improve
ithin 5-feet of llar material in under sidewalks ructed a minimum	۸.	<u>Water Line</u> 1. See Sanitary Sewers Notes for ve and 2).	ertical and horizontal separations	(Note VI-1-1	shall	not conform to Section 207 be "Polyhydrated Lime, C I. The following constructio The subgrade shall be plac	tode 'L'", as manufac on procedures shall be
ifying that all been obtained by		2. All water lines shall be in accord the Indiana State Board of H Sterilization of water mains shall of Health and the Hamilton W	be in accordance with the Indian	a State Board	2.	Lime shall be dry placed pounds per square yard a then be mixed by tractor-	on the subgrade at a as directed by the Eng drawn dise harrows, s
the developer's pencil, showing ateral location, t be received by		of Ficalth and the Flammon F treatment. 3. Pressure tests for the water manufacturer's recommendation	system shall be done in acc	ordance with	3.	end loaders equipped wi depth of 12" as directed by Initial compaction shall b lime shall be compacted b	y the Engineer.
payment can be tubs termination 1 fence post set	•	 4. Granular backfill shall be requareas. See Section VI-V'. 				will be accomplished by mixed lime and soil in th wheel or pneumatic-tired	blading the excess to the 6" lifts. The final p
l be required to essure air test, Said test shall od, and shall be ive of the Clay		 Where private water lines are si shall meet the Pamilton Western Thrust blocks shall be installed in 	hown on the contract plans the p n Utilitics specifications. in accordance with the details con Western Utilities address specified specified to the specified to	ntained within	4.	The density of the soil-line near the and of the finish not passing the density re in accordance with AASI	hing operations. Any equirements shall be d ITO T-191.
flexible* pipe ace at least 30		applicable. 7. Felt material not to exceed 3/8 concrete the solocks.	inch thick shall be placed betw	een pipes : .d	5.	When compaction of the s cal be sloped to the real continued using a steel we obtained.	quired lines, grades, a
tion of 5 percent g are considered ron pirt and cast performed with a available.		be proved by the Underwrite	r domestic and fire protection wa its Laboratories and Factory Mut	ter mains shall ual for critical	б.	The surface shall be main water during all finishing in a moist condition by sp of all types shall be kept	g operations. The trea prinkling with water fo
a Professional tive of t ⁻ 3 Clay	B	 Conduit shall be required for all Granular backfill shall be requi 	l crossings under pavement areas. red for all crossings under paven			uftil in the opinion of the without being damaged. further care in driving ov	he Engineer the lime When allowed on the
it with a braced low pressure air		three feet beyond the edge of the	es pavement. de telephone transformers shall sown on the Site Development Gr	be set at the	7.	<u>Caution</u> : Lime and lime the lime shall be consult to protect the skin, and p	led to determine what
ushed stone from ne pipe. Bedding ne from 6-inches pe and from this d or equivalent.	х	Shall be inaccordance with I.N.D.O.T.	Standard Specifications.		A. Pay	EMOVAL OF PAVEMENT vement removal shall consis vement or the total of any	st of the removal and s
inches of No. 8	× ^	conform to the minimum standards of	Hamilton County.		pav B. Pri	vement on a rigid base (inclusion of the work of the work of where directed, centent co	uding the base). of pavement removal a
of pipe laying to protected and/or	Ľ	s andard specifications. No traffic sha to paving.	all be permitted on the prepared	subgrade prior	po po dai	wer driven concrete saw a rtion of the pavement to re maged or removed outside t his expense.	long designated lines main in place will not
he sanitary sewer 11 utilize a pump		 Backfilling of utility trenches with gra and shall conform to Hamilton Count Contractor shall notify Hamilton Cou 	y specifications.		Х ^{.,} /П. <u>SE</u>	ALING CRACKS AND JC	
p disc arge shall entering existing ail tests on the e passed all punch		cet construction within any existing	g or proposed right-of-way.		cta yar No	flection cracks and joints, acked and allig: tored areas s d of AE-90 or At 150 bits b. 17 sand. The cracks, join mpressed air or other suitab	shall be scaled using fu uminous material and ts and alligatored area
e Contractor shall iven to the Clay					ma iu to	refill them. Any excess ma face shall be covered with a	terial shall be allowed Autplus shall be squeeg iterial shall be squeeg
start of sewer be given prior to		•			501		gra oximately 5 pound
RY SEWER" (Neenah t _{il} z. l'Et z c' Alampod "Sanitary							And the second second
the Clay Township						·	and a standard and a standard a st
tructed Slope 40% 28%							N. S.S.C.

Designed by:	Revisions and Dates:		
	C/16/93 Revised Sanitary Specifications		
ble Drawn by:	10/19/93 Add Str 182-185 to Strve. Data Table		
Checked by:	· · · · · · · · · · · · · · · · · · ·		
Approved by:			

	J		Sheel No.: Of:	
- · ·		STORM STRUCTURE DATA TABLE		X
s. Curbs and walks within existing or proposed	<u>Structure No.</u>	Description	Casting Type	1
s. Curbs and walks within existing of proposed coordance with Hamilton County specifications. rtland cement conforming to A.S.T.M. C-150. . C-33. Compressive strength of concrete at 28 uired, reinforcement shall be welded steel wire	100 101 102 103 104 105	Concrete End Section Manhole Type "B" Inlet Type "B" Inlet Type "A" Manhole Type "B"	R-1772-A R-3501-N R-3501-N R-3501-N R-1772-A R-4342	
st, compacted subgrade or base free from loose a muddy or frozen subgrade. So as to require as little rehandling as practical. Ed at an atmospheric temperature of 35+/-F, or e I.N.D.O.T. Specifications, 1988 edition, shall	106 107 108 109 110 111	Manhole Type "B" Manhole Type "B" Manhole Type "B" Manhole Type "B" Inlet Type "B" Modified Inlet Type "B" Modified	R-4342 R-4342 R-4342 R-3401-N R-3501-N	
d, cure all concrete by one of the methods the I.N.D.O.T. Specifications, 1988 edition.	112 113 114 115 116	Manhole Type "B" Manhole Type "B" Manhole Type "B" Inlet Type "B" Inlet Type "A"	R-4342 R-4342 R-4342 R-3501-N R-3501-N	2
G (Developer shall designate location if ead over the rough grade to a depth sufficient to illing and settlement. The minimum thickness of New grades shall slope uniformly between levels ions of new grades with existing grades shall be	120 121 122 123 124 125	Concrete End Section Manhole Type "B" Manhole Type "B" Manhole Type "B" Inlet Type "B" Inlet Type "B"	R-1772-A R-1772-A R-4342 R-3501-N R-3501-N R-1772-A	6
e shall be spread uniformly over the area to be inches of soil with a disk harrow, rotary tiller, or eer shall be spread at the rate of 800 pounds per ne rate of one-half ton per acre, unless otherwise	126 127 128 129 130 131	Manhole Type "B" Inlet Type "A" Inlet Type "B" Inlet Type "A" Concrete End Section Inlet Type "B"	R-4342 R-3501-N R-3501-N R-3501-N R-3501-N	
or fill areas shall be applied at a rate of 90 pounds 18 lbs. Kentucky Bluegrass, 18 lbs. Park Kentucky Bluegrass, 10 lbs. Pennlawn Fescue and 26 lbs. ibre, straw or mulch, as approved by the Engineer, per acre.	132 133 140 141 142	Inlet Type "B" Inlet Type "A" Concrete End Section Inlet Type "B" Inlet Type "B" Manhole Type "B"	R-3501-N R-3501-N R-3501-N R-3501-N R-4342	3
er shall designate location if required.) be used to improve the upper 12" of subgrade that the 1988 I.N.D.O.T. Specifications. The lime used e 'L'", as manufactured by Mississippi Lime, or procedures shall be utilized.	143 144 145 150 151 152	Manhole Type "B" Manhole Type "B" Concrete End Section Inlet Type "B" Inlet Type "A"	R-4342 R-4342 R-3501-N R-3501-N	L arrison M
to the proper grade. the subgrade at an application rate of 24 to 36 irected by the Engineer. The lime and soil shall wn disc harrows, scarifiers, rotary mixers, or front bucket teeth. Several passes shall be made to a be Engineer.	160 161 162	Manhole Type "B" Inlet Type "B" Inlet Type "B"	R-1772-A R-3501-N R-3501-N	4
performed with a sheepsloot roller. The soil and be be until the proper grade is obtained. Grading be ding the excess to one lane and compacting the "lifts. The find! passes shall be made with a steel ller as approved by the Engineer. mixture will be determined by the City of Carmel	170 171 180 181 - 185	Concrete End Section Concrete End Section Concrete End Section Concrete End Section		
g operations. Any portion of the soil-lime mixture irements shall be determined by the City of Carmel O T-191. me-soil mixture is nearing completion, the surface		SANITARY STRUCTURE DATA TA	IBLE	ha 13 499
red lines, grades, and cross section, and compaction beled roller until the minimum specified density is ined in a moist condition by means of a fine spray of perations. The treated material shall be maintained obligg with water for a period of seven days. Traffic	<u>Structure No.</u> 216 217 218	<u>Description</u> Sanitary Manhole by Others Sanitary Manhole by Others Sanitary Manhole by Others	<u>Casting Type</u> 	5
the lime modified soil for seven days, or thereafter Engineer the lime-modified soil will support traffic then allowed on the subgrade, traffic shall exercise it so as not to tear up the subgrade. ixtures are caustic in nature. The manufacturer of to determine what special precautions are required	218 219 601 602	Sanitary Manhole by Others Manhole Type "C" Manhole Type "C"	R-1642 R-1642 R-1642 R-1642	
icularly the eyes. IDEWALKS, CURBS, ETC.	603) 604 605 606 607 608	Manhole Type "C" Manhole Type "C" Manhole Type "C" Manhole Type "C" Manhole Type "C" Manhole Type "C" Manhole Type "C"	R-1642 R-1642 R-1642 R-1642 R-1642 R-1642	
f the removal and social factory disposal of bituminous obination of base, binder and surface course of any ong the base). bavement removal at locations indicated on '' e plans, rete pavement to be removed shall be cut with a g designated lines. Sawing shall be such that any in in place will not be damaged. Any portion that is designated lines shall be replaced by the Contractor,	609 610 611 612 613 614 615 616 617 618	Manhole Type "C" Sanitary Manhole by Others Manhole Type "C" Manhole Type "C" Manhole Type "C" Manhole Type "C" Manhole Type "C" Manhole Type "C"	R-1642 R-1642 R-1642 R-1642 R-1642 R-1642 R-1642 R-1642 R-1642	6
TS IN BITUMINOUS PAVEMENT th longitudinal and transverse, as well as checked, Il be sealed using from 0.10 to 0.15 gallon per square inous material and covering with either No. 14-2 or nd alligatored areas shall be cleaned by blowing with means prior to the placing of the bituminous scaling	San	itary and	Storm	
ial shall be allowed to penetrate the cracks and joints optimated to squeegeed buck and forth over the area ial shall be squeegeed off the pavement. The scaled roximately 5 pounds of sand per square yard.		AS - BUIL	.TS	7
NO. 890003 STATE OF	As-built in MA	nformation provided by MSE Corporation, cert χ_{199}	tified this 20^{2} day of	
BO STILLEF GU MAND SURVELLEN		Surveyor No. 890003-IN	FFB 1 0 1995 FICE OF HAMILTON COUNTY SURVEYOR	
d by: d	Inc. I Blvd., Sulte 110	SPECIFICA	TIONS	3

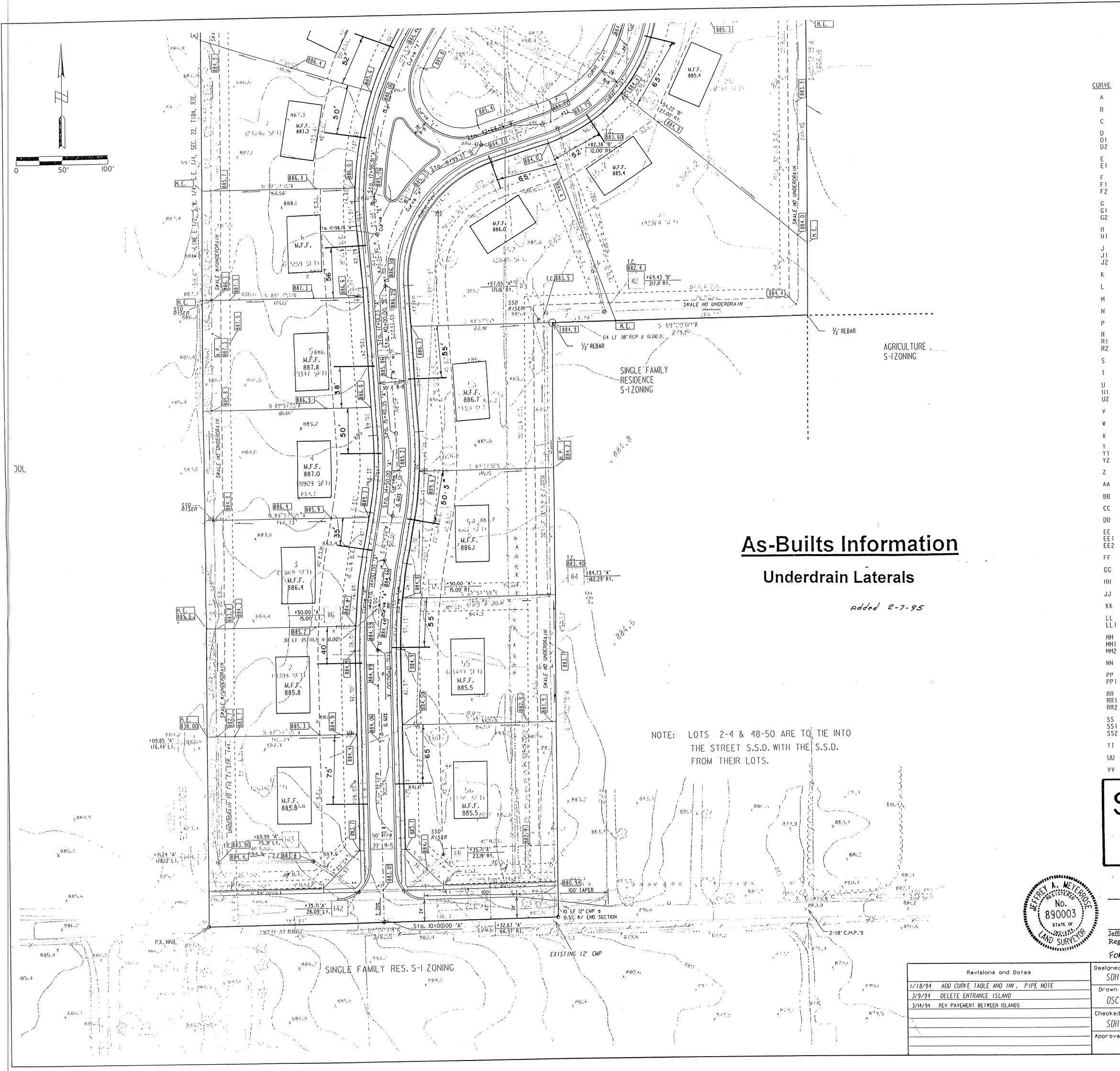
Sheet Ho 2 UI 29

Job No 121-2121

Carm 1, IN 46032

317-843-5080

Job No .: 11-1-052 2000 Mo .:



•

R3. . . .

------This copy printed from the Digital Archive of the Hamilton County Surveyor's Office; One Hamilton Co. Square, Ste. 188, Noblesville, In 46060

......

فالمرار والمست

.. .

	MM 47°15'10" 200.00 87.4 MM1 47°15'10" 178.00 77.8 MM2 47°00'58" 222.00 96.5	6 146.80 142.67 N 11°57'06	" E " E		
	NN 11°00'40" 300.00 28.9		" E		
	PP 17°23'29" 300.00 45.8 PP1 09°44'40" 278.00 23.7		* W * W		
	RR 21°52'06" 200.00 38.6 RR1 21°52'06" 178.00 34.3 RR2 21°52'06" 222.00 42.8	9 67.94 67.53 N 05°47'37	* E		
	SS 30°00'45 [*] 275.00 73.7 SSI 30°00'45 [*] 290.00 77.7 SS2 04°13'44 [*] 297.00 10.9	4 151.91 150.18 S 09°51'57	* E * ¥ * ¥		
	11 151°35'51* 16.69 65.9				LECEND
	UU 90°00'00" 20.00 20.0			EXISTING	PROPOSED
_	VV 76°09'12* 131.00 102.6	53 174.12 161.58 S 34°31'16	5" ¥	= = = = = =	STORM SEWER
	\sim ··			<u> </u>	SANITARY SEWER
	Sanitary	and Storn	n I	\odot	MANHOLE.
				D	INLE 1
	ΛΟ	BUILTS			END SECTION
	AJ-	DUILIS			STORM STR. NO.
116778281248424	·			S	ANITARY STR. NO. ' '
A. MEHANA	As-built information provided by M MAY, 1994	SE Corporation, certified this $\frac{20^{72}}{20}$ day	of		FLOW ARROW
No. No.			,		- CONTOUR
890003 STATE OF	And M&			5 5 41.	
AND SURVE THE	Jeffrey A. Meyerrose Registered Land Surveyor No. 890003-IN			\$`````````````````````````````````````	SPOT ELEVATION []
**************************************	FOR INFORMATION PURPOSES	ONLY			
Des Des	SDH		Titleı		
PIPE NOTE Dr	own by:	MSE Englineering			
5	DSC 39 Starts	MSE Corporation 941 North Meridian Street		SILE	
Che	SDII	Indianapolis, IN 46204-1061			FFB 10 1995
App	roved by	317 634-1000 317 634-3576 FAX	-		DEELTE OF HAMILTON COUNTY SURVEYOR
	Dote:		Scale: /' = 50 '	JOD NO.: 14 U4	JT STERNE SUCAL MADE STREET
	Revised	2-7-95		DCN: 497SI	PRF: 497SI
	n a fa an an an annan-air fainn an a' a clubh ann a Bhuannan an ann an ann an ann an ann ann a	Jou	5 No 121-	2/2/	

DELTA	RADIUS	TANGENT	LENGIH	CHUND	DEANING
10°54'49"	525.00	50.15	100.00	99.85	N 04°47'32" E
10°54'13"	550.00	52.49	104.67	101.51	S 04°47'14" W
10°54'49"	500.00	47,76	95.24	95.09	S 04°47'32" W
3° 48 ' 16 " 3° 48 ' 16 " 3° 48 ' 16 "	375.00 350.00 400.00	45,39 42,37 48,42	90.35 84.33 96.37	90.13 84.12 96.14	N 03°20'48" E N 03°20'48" E N 03°20'48" E
08°29'29" 05°47'45"	250. 00 272. 00	18.56 13.77	37.05 27.51	37.02 27.50	S 04°09'49" E S 02°48'57" E
51°18'44" 27°44'49" 51°18'44"	366.91 344.91 388.91	176.23 85.19 186.80	328,59 167,03 348,29	317.72 165.40 336.77	S 25°44'17" W S 38°46'02" W S 25°44'17" W
43°57'08" 48°45'28" 18°47'17"	150.00 110.06 202.00	60.53 49.88 33.42	115.07 93.66 66.24	112.27 90.86 65.94	N 22°00'39" E N 30°02'05" E S 09°25'43" W
76°09'12" 76°09'12"	150.00 132.89	117.52 104.11	199. 31 176. 62	185.01 163.91	N 34°31'16* E S 34°31'16* W
8°45'56" 70°36'45" 04°51'31"	150.00 126.00 172.00	253.46 89.23 223.58	310.93 155.29 314.78	258,18 145,64 272,65	N 13°12'54" E N 37°18'16* E N 20°10'07" E
129°21'27"	67.00	141.60	151.27	121.13	S 62°40'50* E
134°31'17"	47.00	112.14	110.35	86.69	S 42°22'00" E
51°05'01"	77.00	36,80	68.65	66.40	S 06°43'08* E
89°18'04"	20.00	19.76	31.17	28.11	N 44°41'07" E
90°41'56"	20.00	20.25	31.66	28.46	N 45°18'53" W
65°09'45" 65°09'45" 65°09'45"	330.00 305.00 355.00	210.89 194.92 226.87	375.31 346.88 403.74	355.41 328.48 382.33	N 32°32'48" W N 32°32'48" W N 32°32'48" W
90°00'00"	20.00	20.00	31.42	28.28	N 69°52'20" E
90°00'00"	20.00	20.00	31.42	28.28	N 20°07'40" W
12° 36 '51" 03° 48 '01" 03° 09 '35"	1000.00 975.00 1025.00	110.53 32.35 28.27	220.16 138.76 151.50	219.71 64.66 56.52	S 31°10'45" W N 26°46'20" E N 26°27'07" E
43°39'22"	48.00	19.23	36.57	35.69	S 11°30'45" W
271°17'52"	56.50		267.53	78.99	S 54°40'00" E
47°57'20"	48.00	21.35	40.18	39.01	S 57°00'15" W
33°00'00* 33°00'00* 33°00'00*	330.00 305.00 355.00	97.75 90.35 105.16	190. 07 175. 67 204. 47	187.45 173.25 201.65	S 81°37'40" E N 81°37'40" W N 81°37'40" W
81°53'15"	20.00	17.35	28.58	26.21	N 40°55'42" E
45°41'17*	48.00	20.22	38.28	37.27	S 22°51'34" E
271°22'34*	56.50		267.61	78.94	N 89°59'05" E
45°41'17"	48.00	20.22	38.28	37.27	N 22°49'43" E
97°12'34"	20.00	22.69	33.93	30.01	S 48°37'12" E
08°06'45" 07°53'35" 07°12'34"	1000.00 975.00 1025.00	70.91 67.26 64.57	141.59 134.32 128.97	141.47 134.21 128.89	S 85°55'42" W S 86°02'17" W S 86°22'48" W
82°06'25"	20.00	17.42	28.66	26.27	N 41°02'17" E
246°35'09"	56.50		243.16	94.45	N 56°42'25" W
66°36'04"	48.00	31.53	55.80	52.71	S 33°17'07" W
98°06'45"	20.00	23.05	34.25	30.21	N 49°04'18" W
90°00'00"	20.00	20.00	31.42	28.28	N 20°07'40" W
10° 42'21" 09° 26'29"	400.00 716.00	37.48 59.13 87.49	74.74 117.98 164.94	74.63 117.85 160.31	S 30°13'31" W S 30°51'27" W N 11°57'06" E
47° 15' 10" 47° 15' 10" 47° 00' 58"	200.00 178.00 222.00	77.86 96.57	146.80 182.17	142.67 177.10	N 11°57'06" E N 11°50'00" E
11°00'40"	300.00	28.92	57.65	57.56	S 06°10'09" E
17°23'29" 09°44'40"	300.00 278.00	45.88 23.70	91.06 47.28	90. 71 47. 22	S 08°01'56" W S 11°51'20" W N 05°47'37" E
21°52'06" 21°52'06" 21°52'06"	200.00 178.00 222.00	38.64 34.39 42.89	76.33 67.94 84.73	75.87 67.53 84.22	N 05°47'31* E N 05°47'31" E
30° 00' 45" 30° 00' 45" 04° 13' 44"	275.00 290.00 291.00	73.72 77.74 10.97	144.05 151.91 21.92	142.41 150.18 21.92	N 09°51'57* E S 09°51'57* W N 03°01'34* W
151°35'51*	16.69	65.93	44.15	32.35	S 87°28'24" E

BUCK HORN CURVE DATA

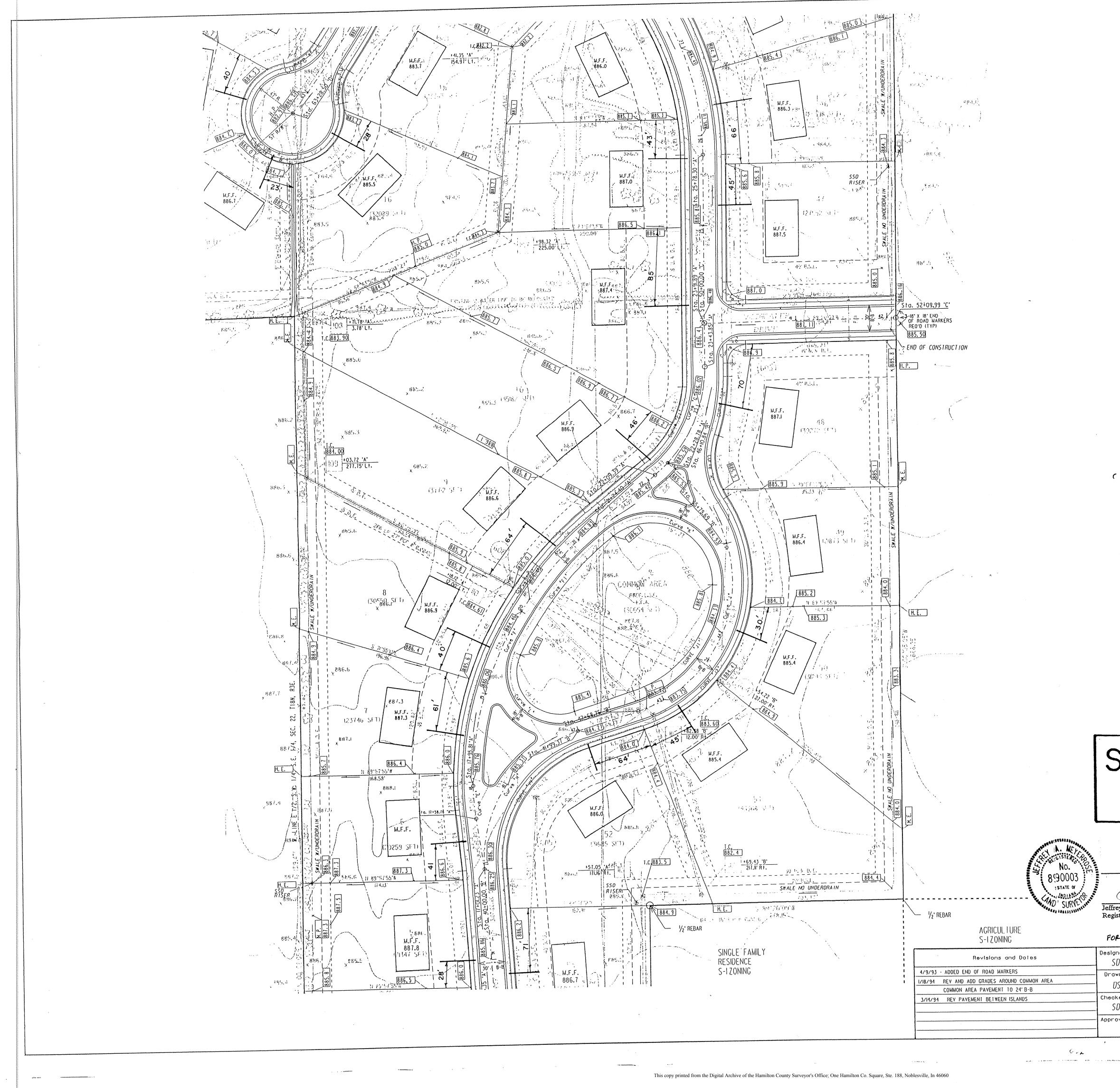
T<u>ANGENT</u>

RADIUS

<u>LENGTH</u>

<u>CHORD</u>

BEARING

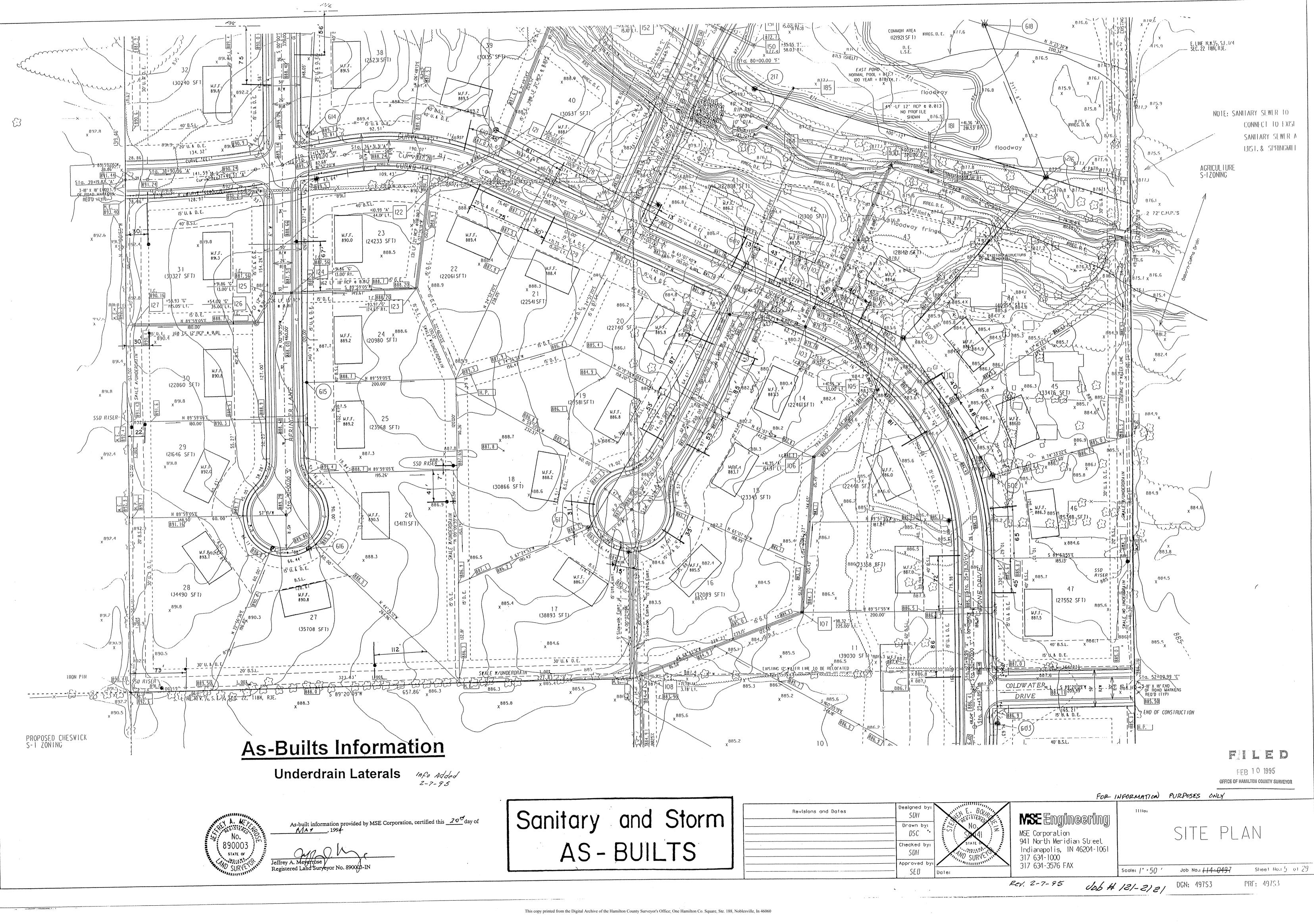


As-Builts Information

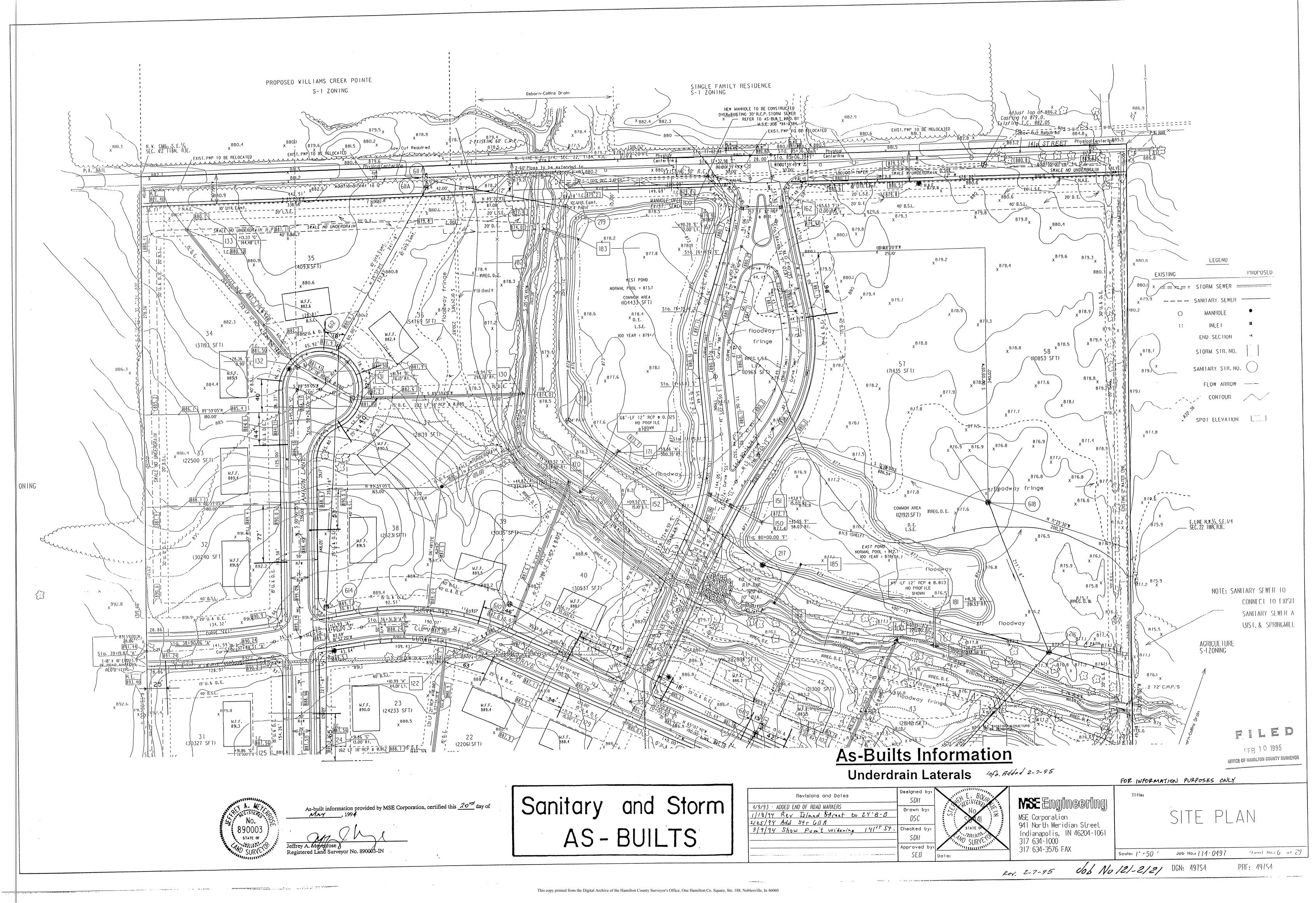
Underdrain Laterals

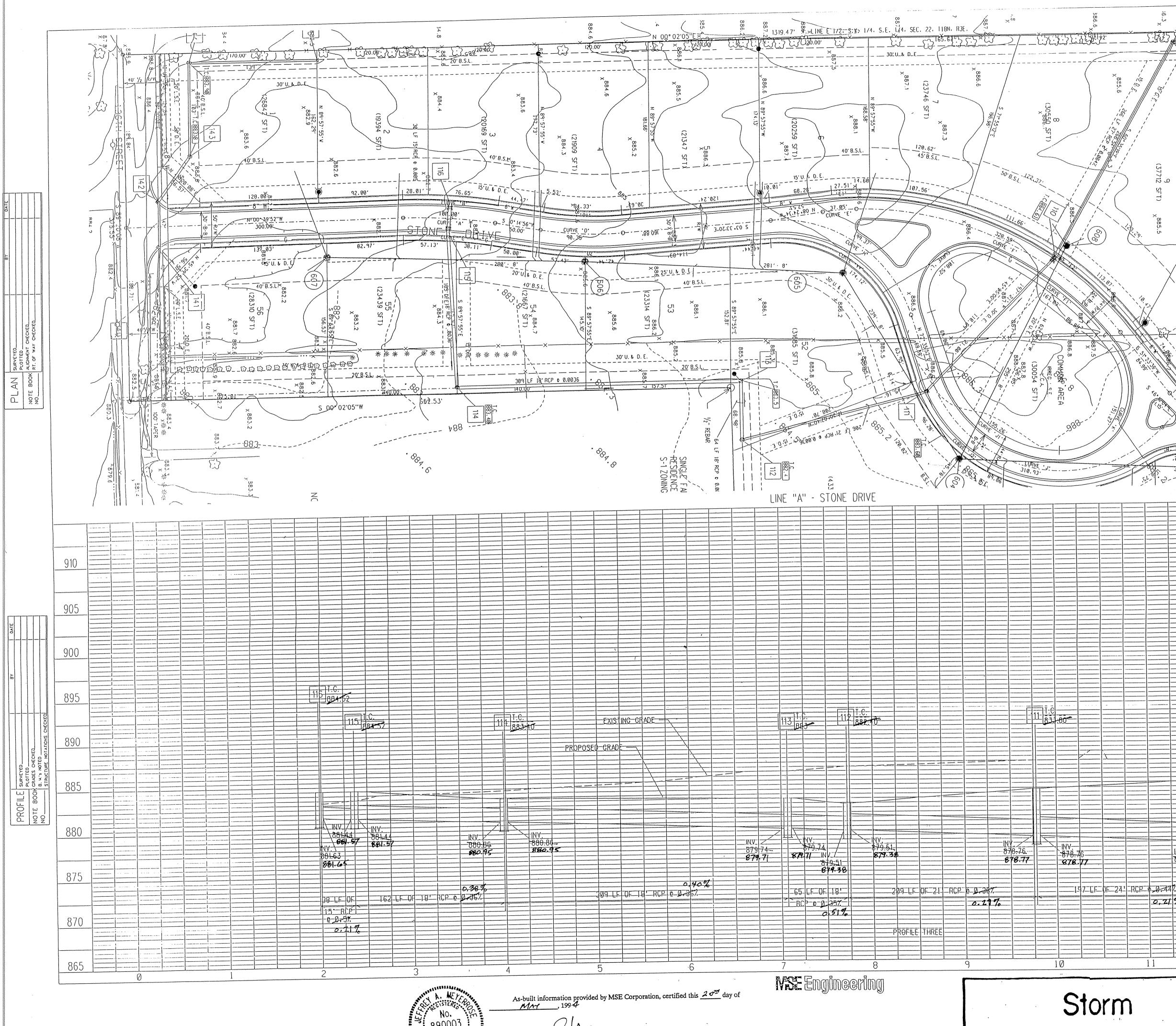
Info Added 2-7-95

Dote:		LEGEND
As-built information provided by MSE Corporation, certified this $\frac{20^{72}}{}^{d}$ day of MAY	anitary and Storm	
As-built information provided by MSE Corporation, certified this $\frac{20^{77}}{Mar}$ day of Mary 1994 SANITARY STR. NO. FLOW AIRROW FLOW AIRROW FEB 10 1995 SPOT ELEVATION L. 1 OFFICE OF HAMILTON COUNTY SURVEYOR INFORMATION PURPOSES ONLY NEE Corporation 91 North Meridian Street Indianapolis, IN 46204-1061 317 634-3576 FAX Scoler 1' : 50 ' Job No.1 H4-0497 Sheat No.4 of	•	⊙ MANHOLE ● C3 INLET ₩
Image: State of by: Part of the state		
MARKET DSE terred Land Surveyor No. 890003-IN FILED CONTOUR - INFORMATION PUPPOSES ONLY FEB 10 1995 SP01 ELEVATION L - INFORMATION PUPPOSES ONLY OFFICE OF HAMILTON COUNTY SURVEYOR SP01 ELEVATION L ed byt HH Dr byt SC ed byt HI Wed byt Dote: 92 0289 ALE of MARKETON 92 0289 ALE OF MARKETON 92 0289 ALE OF MARKETON 941 North Meridian Street Indianapolis, IN 46204-1061 317 634-1000 317 634-3576 FAX TITLE SITE PLAN	As-built information provided by MSE Corporation, certified this $\frac{20^{24}}{M_{AY}}$ day of M_{AY} , 1994	
H NSE Engineering 920299 MSE Corporation 920299 MSE Corporation 941 North Meridian Street Indianapolis, IN 46204-1061 11 317 634-3576 FAX Dote: Scoler /' = 50 ' Job No.1 H4-0497	tered Land Surveyor No. 890003-IN	FEB 10 1995 . SPOL ELEVATION
Dote: 317 634-3576 FAX Scale: /' = 50 ' Job No.: 144-0497 Sheet No.: 1 of	MSE Corporation 920289 MSE Corporation 941 North Meridian Street Indianapolis, IN 46204-1061 317 634-1000	
Redised 2-7-95 000 4 121-2121 UGN; 19152 1711: 19157	317 634-3576 FAX	



Sanitary and Storm	Revisions and Dates
AS-BUILTS	

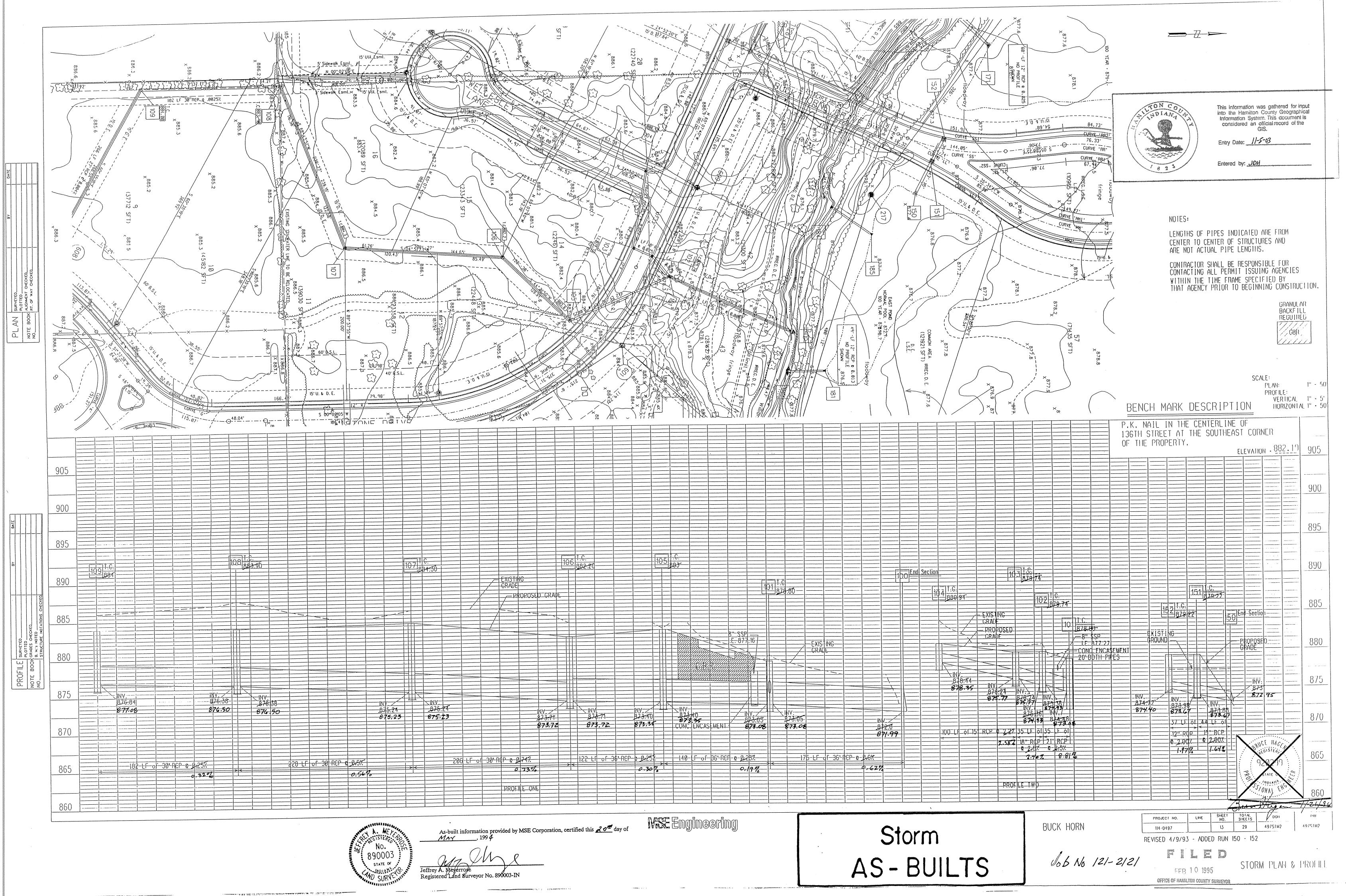




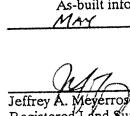


Jeffrey A. Meyerrose Registered Land Surveyor No. 890003-II

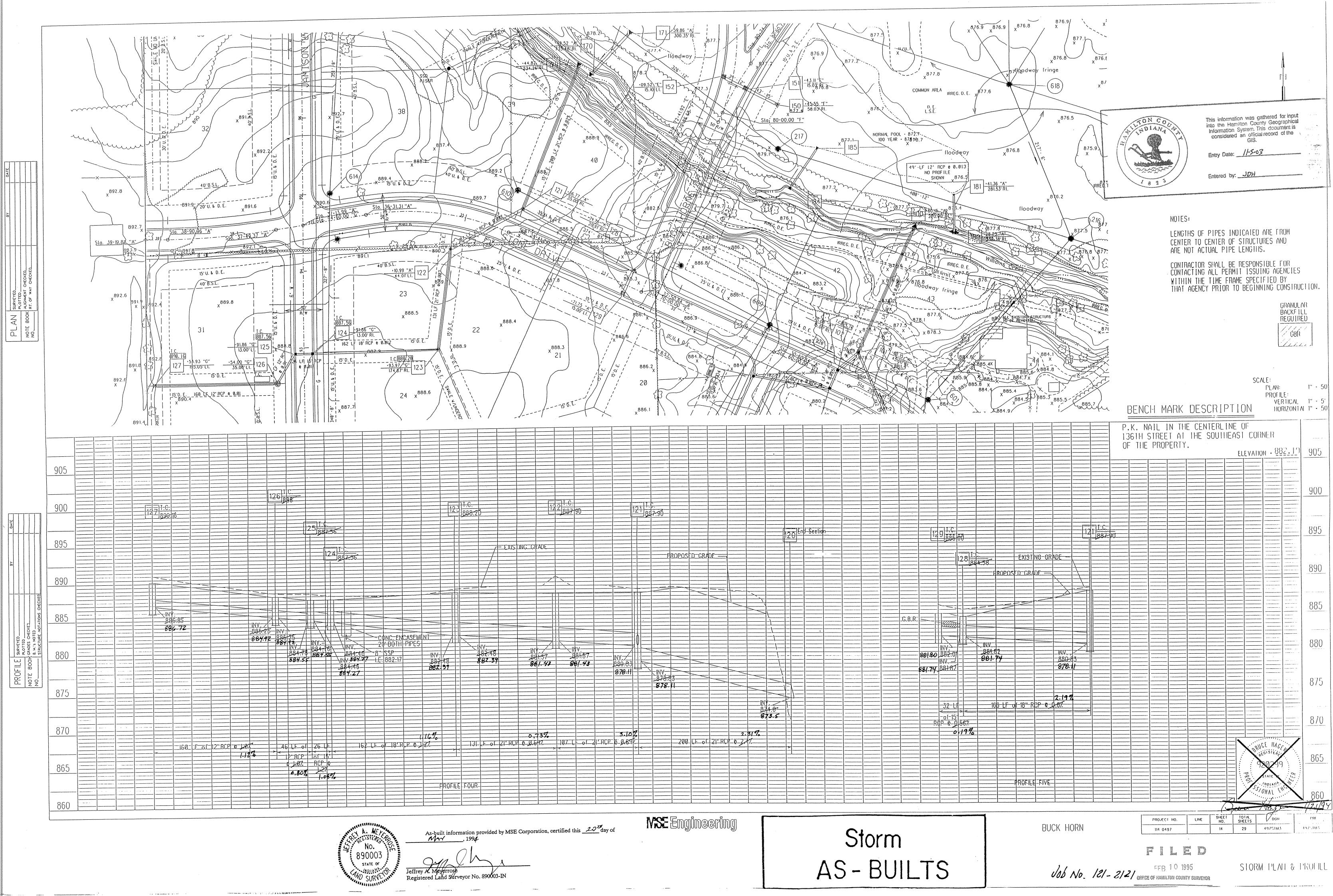
102 LF 30" TRER Q .0025% This information was gathered for input into the Hamilton County Geographical Information System. This document is considered an official record of the GIS. Entry Date: 11-5-03 Entered by: JDH N S NOIES: LENGIHS OF PIPES INDICATED ARE FROM CENTER TO CENTER OF STRUCTURES AND ARE NOT ACTUAL PIPE LENGTHS. ------CONTRACTOR SHALL BE RESPONSTBLE FOR CONTACTING ALL PERMIT ISSUING AGENCIES WITHIN THE TIME FRAME SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION. GRANULAR BACKF ILL REGUIRLD (GBÍ Eller . ------VE interest (15.07,--H JANDO SCALE PL AN: 1" - 5 PROFILE: 350 350 - 0 25'U. & D. E VERTICAL 1" - 5" 14.63 BENCH MARK DESCRIPTION HORIZONTAL 1" - 50 -----P.K. NAIL IN THE CENTERLINE OF 136TH STREET AT THE SOUTHEAST CORNER OF THE PROPERTY. ELEVATION = 882.19910 905 900 895 EXISTING GRADE 109 84:00 110 1.6. 890 PROPOSED-GI ADE--SEE-SHEEI 13 -CONTINUATION 885 880 Z30' BCP ____ -INV 877.00 875 818.35 876.84 877.08 266_LF_OF_21_RCP-0-0-7-0,48% 0,71% 870 14 13 11 SHEET NO. TOTA. SHEETS rrr PROJECT NO. LINE BUCK HORN 49751MI 29 49751MI 12 -114-0497-1-18-94 REVISED RUN STR. 109 - 112 Job # 121-2121 AS - BUILTS FFB 10 1995 STORM PLAN & PROLIE OFFICE OF HAMILTON COUNTY SURVEYOR



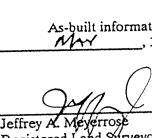




This copy printed from the Digital Archive of the Hamilton County Surveyor's Office; One Hamilton Co. Square, Ste. 188, Noblesville, In 46060



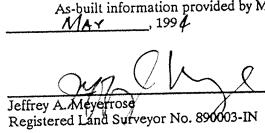




94				
1.	:			
\wedge		X		
	17			



১ (PLGISTERE	P.
5	No. °	* Cr
	890003	i.
	STATE OF	, , , , , , , , , , , , , , , , , , ,
	NO SURVEY	Rates
- "I _I	NO SURVEY	. Coar



· . . .

This copy printed from the Digital Archive of the Hamilton County Surveyor's Office; One Hamilton Co. Square, Ste. 188, Noblesville, In 46060

Storm AS - BUII

		· [
607 882.2 156.53' × X 883.2 156.53' × X 883.2 156.53' × X 883.2 156.53' × X 883.2 156.53' × X 883.2 156.53' × X 883.2 156.53' × X 883.2 156.55' × X 156.55' × X 157.55' × X	Seazle Bazz A 863.2 A 863.2	Entry Date:	
141 40' 8.54. ***********************************	863.4 863.4 863.4 140 863.4 86	NOTES: LENGTHS OF PIPES INDICATED ARE FROM CENTER TO CENTER OF STRUCTURES AND ARE NOT ACTUAL PIPE LENGTHS. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PERMIT ISSUING AGENCIES WITHIN THE TIME FRAME SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCT BACKFIL REGUTRE	R
	BENCI	SCALE: PLAN: PROFILE: VERTICAL HORIZONTA	∠ ↓ 1'' + 50 1'' - 5' 1 1'' - 50
	136TH S1	IL IN THE CENTERLINE OF TREET AT THE SOUTHEAST CORNER PROPERTY. 882-13	910
			905
			900
			895
REPOSED		883.14	890
			885
882.02 882.02 882.02		56 / B(1:40 / NV./ 8 SO70/ B81:40 / B81:40 / B81	880
0.37% 100 112' RCP 0 0.37 03 LF	0-19% 60 LF 26 01-12" RCP 0 U-287 50 LF 01-12" 47 LF		875
		<u>9-347</u> RCP <u>9-617</u> 0.65% (-)0.03%	870
PROFILE SEVEN	NOTE: AS BUILTS IN FO REVISED 2-9-95	920200 STATE O STATE O STOWAL ENG	
	BUCK HORN		PRF 49751M4
LTS	Job No 121-2121	B-94 REVISED STORM RUN STR. •140 - •14.3 23 947 ADD PEGFIES STR /60 -7 4 2 FFB 10 1995 STORM PLAN & I FFICE OF HAMILTON COUNTY SURVEYOR	'RUEII F

.

