



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, Surveyor

Phone (317) 776-8495

Fax (317) 776-9628

Suite 188

One Hamilton County Square

Noblesville, Indiana 46060-2230

November 8, 2005

TO: Hamilton County Drainage Board

RE: Springs of Cambridge/Bee Camp Creek Drain, Springs of Cambridge Section 9 Arm

Attached is a petition filed by Marina Limited Partnership along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Springs of Cambridge Section 9 Arm, Springs of Cambridge/ Bee Camp Creek Drain to be located in Fall Creek Township. I have reviewed the submittals and petition and have found each to be in proper form.

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

6" SSD	5,077 ft.	21" RCP	47 ft.
12" RCP	487 ft	24" RCP	545 ft.
15" RCP	259 ft.	30" RCP	185 ft.
18" RCP	677 ft.	36" RCP	531 ft.

The total length of the drain will be 7,808 feet.

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

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 \$10.00 per acre with a \$50.00 minimum for common areas, \$10.00 per acre with a \$50.00 minimum for platted lots, \$10.00 per acre for roadways. With this assessment the total annual assessment for this drain/this section will be \$ 2,087.90.

The petitioner has submitted surety for the proposed drain at this time. Surety shall be submitted prior to the approval of the Hamilton County Board of Commissioners/commencement of construction. The sureties which are in the form of a Performance Bond/Letter of Credit are as follows:


Agent: Fifth Third Bank
Date: July 22, 2005
Number: CIS 404114
For: Storm Sewers and Sub-surface Drain
Amount: \$219,925.00

Agent: Fifth Third Bank
Date: July 22, 2005
Number: CIS 404113
For: Erosion Control & Monumentation
Amount: \$45,000.00

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. The request is for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Springs of Cambridge Section 9 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for December 22, 2005.



Kenton C. Ward
Hamilton County Surveyor

KCW/pll

(Revised 06/08/04)

STATE OF INDIANA)
)
COUNTY OF HAMILTON)

TO: HAMILTON COUNTY DRAINAGE BOARD

% Hamilton County Surveyor
One Hamilton County Square, Suite 188
Noblesville, IN. 46060-2230

In the matter of SPRINGS OF CAMBRIDGE Subdivision, Section
 NINE Drain Petition.

Petitioner is the owner of all lots in the land affected by the proposed new regulated drain. The drainage will affect various lots in THE SPRINGS OF CAMBRIDGE , a subdivision in Hamilton County, Indiana. The general route of such drainage shall be in existing easements and along public roads as shown in the plans on file in the Surveyor's Office.

Petitioner believes that the cost, damages and expenses of the proposed improvement will be less than the benefits which will result to the owners of the land likely to be benefited thereby. Petitioner believes the proposed improvements will:

- (a) improve public health
- (b) benefit a public street
- (c) be of public utility

Petitioner agrees to pay the cost of construction of the drainage system and requests periodic maintenance assessments by the Board thereafter.

The Petitioner also agrees to the following:

1. To provide the Drainage Board a Performance Bond or Non-Revocable Letter of Credit for the portion of the drainage system which will be made a regulated drain. The bond will be in the amount of 120% of the Engineer's estimate. The bond will be in effect until construction of 100% of the system is completed and so certified by the Engineer.
2. The Petitioner shall retain an Engineer throughout the construction phase. At completion of the project the Petitioner's Engineer shall certify that the drainage system which is to be maintained as a regulated drain has been constructed as per construction plans.
3. The Petitioner agrees to request in writing to the County Surveyor any changes from the approved plan and must receive written authorization from the County Surveyor prior to implementation of the change. All changes shall be documented and given to the Surveyor to be placed in the Drain file.
4. The Petitioner shall instruct his Engineer to provide a reproducible print on a 24" x 36" Mylar of the final design of the Drainage System. This shall be submitted to the County Surveyor prior to the release of the Performance Bond.
5. The Petitioner shall comply with the Erosion Control Plan as specified on the construction plans. Failure to comply with the Erosion Control Plan shall be determined by the Board as being an obstruction to the drainage system. The County Surveyor shall immediately install or repair the needed measures at Petitioners cost as per IC 36-9-27-46.

The Petitioner further requests that the Drain be classified as an Urban Drain as per IC 36-9-27-69(d).

RECORDED OWNER(S) OF LAND INVOLVED

Allen E. Rosenberg 10/16/05
Signed

ALLEN ROSENBERG for: MARINA, LP
Printed Name

Date

Signed

Printed Name

Date

Signed

Printed Name

Date

Signed

Printed Name

Date

FINDINGS AND ORDER

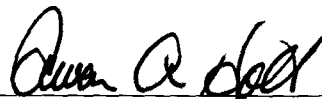
CONCERNING THE MAINTENANCE OF THE

**Springs of Cambridge/Bee Camp Creek Drain,
Springs of Cambridge Section 9 Arm**

On this **22nd day of December 2005**, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the **Springs of Cambridge/Bee Camp Creek Drain, Springs of Cambridge Section 9 Arm**

Evidence has been heard. Objections were presented and considered. The Board then adopted the original/amended Schedule of Assessments. The Board now finds that the annual maintenance assessment will be less than the benefits to the landowners and issues this order declaring that this Maintenance Fund be established.

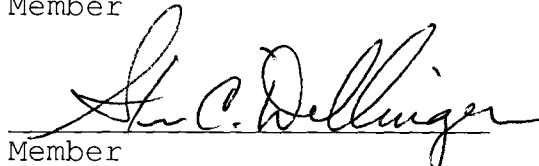
HAMILTON COUNTY DRAINAGE BOARD



President



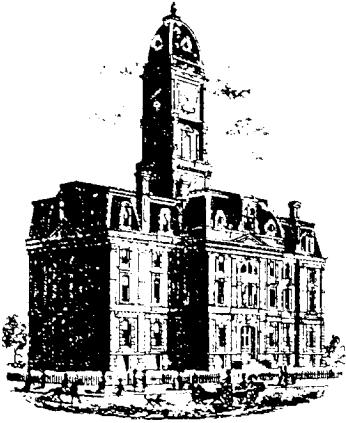
Member



Member

Attest:





SURVEYOR'S OFFICE

Hamilton County

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

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

To: Hamilton County Drainage Board

September 9, 2008

Re: Springs of Cambridge-Bee Camp Creek Drain: Springs of Cambridge Section 9

Attached are as-builts, certificate of completion & compliance, and other information for Springs of Cambridge Section 9. 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 8, 2005. The report was approved by the Board at the hearing held December 22, 2005. (See Drainage Board Minutes Book 8, Pages 564-565) The changes are as follows:

Structure:	Length:	Size	Material:	Up Invert:	Dn Invert:	Grade:	Changes:
721-720	101	30	RCP	785.64	784.6	1.02	1
706-705	24	15	RCP	790.31	789.94	1.48	
705-704A	29	15	RCP	786.41	785.99	1.44	1
704A-704	53	18	RCP	785.92	785.46	0.91	
704-703	147	24	RCP	785.46	784.49	0.54	-3
733-732	25	15	RCP	789.49	788.88	2.38	1
732-731	40	15	RCP	787.42	785.44	4.92	
731-730	118	15	RCP	785.44	784.41	0.77	-18
729b-729A	24	18	RCP	817.21	807.58	15.79	-23
729a-711	148	18	RCP	807.58	801.19	2.33	
713-712	25	12	RCP	811.52	811.39	0.52	
712-711	161	12	RCP	811.13	804.13	5.59	-1
711-710	51	24	RCP	802.13	800.45	1.31	1
710-709	29	24	RCP	800.45	799.71	2.52	-1
709-708	26	24	RCP	799.57	799.37	0.77	2
708-708a	29	24	RCP	799.37	786.51	39.04	-1
708A-707	129	24	RCP	787.95	784.53	1.53	-4
728-727	126	12	RCP	801.5	797.85	2.89	1
727-726	23	15	RCP	797.56	797.09	3.31	-1
726-726A	32	18	RCP	797.06	788.21	27.57	-1
726A-725	148	18	RCP	787.86	784.46	2.62	18
724-723	37	21	RCP	810.7	805.22	12.47	-10

723-722	122	24	RCP	805.16	797.26	6.44	-1
722-721	82	30	RCP	795.47	786.07	11.44	-2
719-718	45	12	RCP	809.81	807.19	5.8	
718-717	129	12	RCP	807.23	798.57	6.7	-1
717-716	29	15	RCP	798.49	796.23	7.74	-14
715A-714	134	24	RCP	786.86	784.45	1.76	-1
716-715	25	18	RCP	796.23	793.11	7.55	1
715-715A	28	18	RCP	793.47	786.86	21.85	-2

RCP Pipe Totals:

12	486
15	288
18	458
21	37
24	667
30	183

Total: 2119

6" SSD Streets:

Kingston Dr	1119.5
Geistview Dr	1386.5
x2	

Total: 5012

The length of the drain due to the changes described above is now **7131 feet**. It should be noted that the 36" RCP mentioned in my original report was picked up with the Springs of Cambridge Section 3 Relocation. See my report for this drain-dated November 8, 2005. The report was approved by the Board at the hearing held December 22, 2005. (See Drainage Board Minutes Book 8, Pages 562-564). Also, Str. 802 of Springs of Cambridge Section 4 was removed and the existing 18" RCP was tied into Str. 729B. Str. 790 was removed and a manhole installed (Str. 724).

The non-enforcement was approved by the Board at its meeting on December 22, 2005 and recorded under instrument # 2007012851.

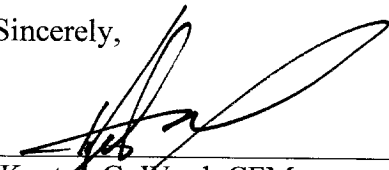
The following sureties were guaranteed by Fifth Third Bank and released by the Board on its September 22, 2008 meeting.

Bond-LC No: CIS404114
Insured For: Storm Sewers & SSD
Amount: \$219,925.00
Issue Date: July 22, 2005

Bond-LC No: CIS404113
Insured For: Erosion Control
Amount: \$45,000.00
Issue Date: July 22, 2005

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

Sincerely,



Kenton C. Ward, CFM
Hamilton County Surveyor

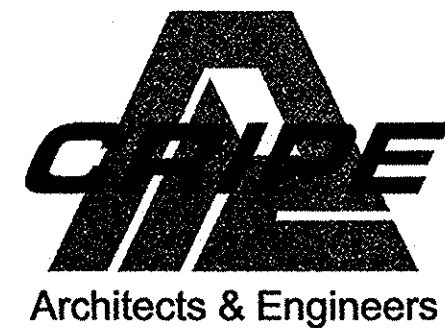
KCW/slm

OWNER:

MARINA I, LP.
11691 FALL CREEK ROAD
INDIANAPOLIS, IN 46256

Ph. (317) 845-0270 FAX (317) 845-0766

ENGINEERS/SURVEYORS

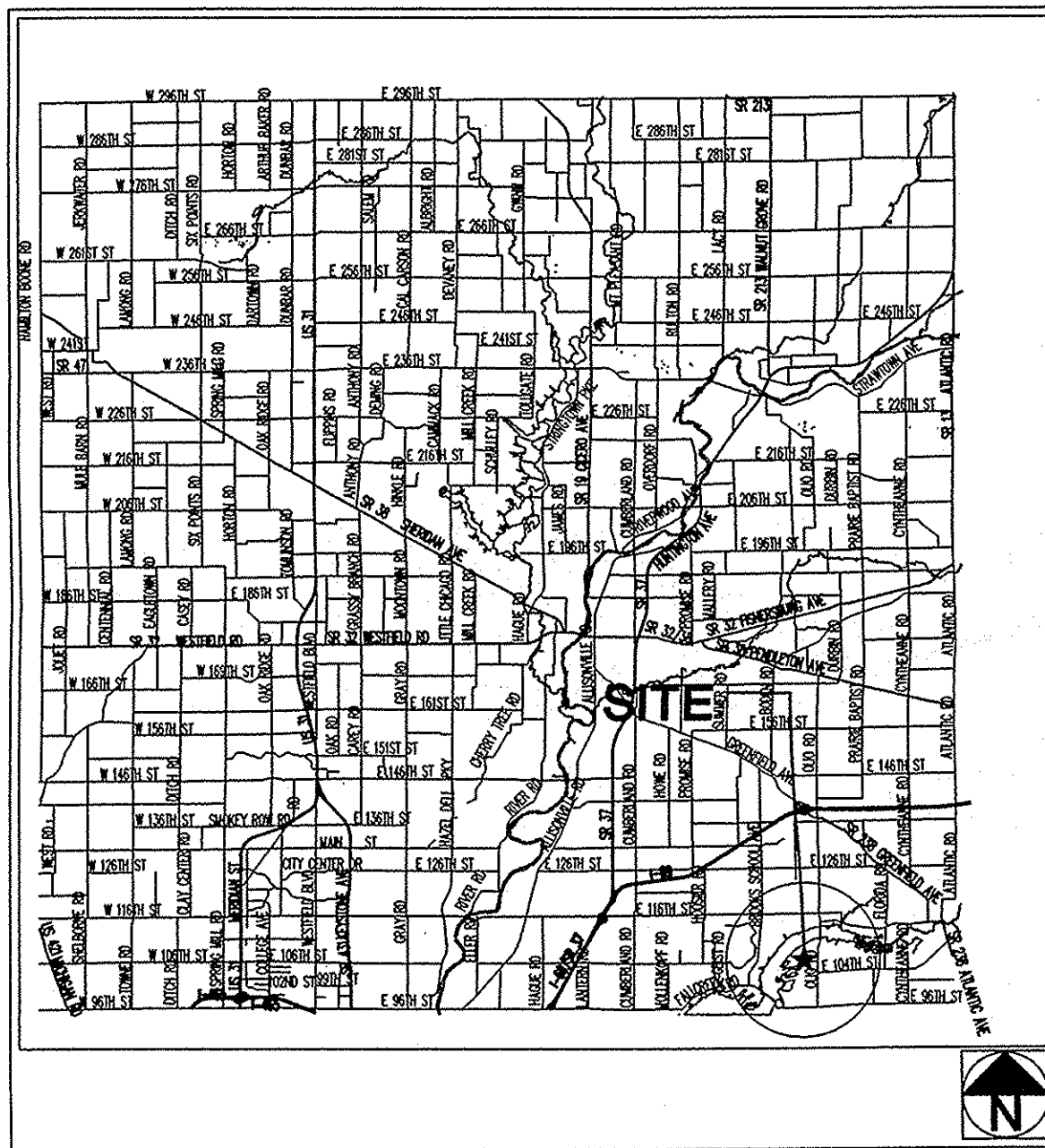


Architects & Engineers

7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
Ph. (317) 842-6777 FAX (317) 841-4798

RECORD DRAWINGS FOR THE SPRINGS OF CAMBRIDGE SECTION 9

SECTION 9
STORM SEWER
RECORD DRAWINGS



THOROUGHFARE PLAN

STORM RECORD DRAWING NOTES:

- NOTE 1: ONLY THOSE PIPES THAT ARE VISIBLE AT THE STRUCTURE WERE LOCATED BOTH HORIZONTALLY AND VERTICALLY. THERE IS NO GUARANTEE THAT THE PIPE IS IN A STRAIGHT LINE BETWEEN THE STRUCTURES, HOWEVER FOR PURPOSES OF CALCULATION THIS IS ASSUMED.
- NOTE 2: ALL RECORD DRAWING ELEVATIONS SHOWN ARE WITHIN ±0.05 FEET ON HARD SURFACES AND WITHIN ±0.10 FEET ON SOFT SURFACES, UNLESS OTHERWISE NOTED.
- NOTE 3: ALL FIELD WORK FOR THE 'RECORD DRAWINGS' WAS COMPLETED ON THE 13TH DAY OF JULY, 2006.
- NOTE 4: DISTANCES BETWEEN STRUCTURES ARE TAKEN FROM THE FIELD LOCATION OF THE CASTING TO THE FIELD LOCATION OF THE CASTING.
- NOTE 5: CALCULATED PERCENT GRADES ASSUME THAT ALL FIELD LOCATED INVERT SHOTS ARE PLUS OR MINUS 0.05 FOOT AND INVERTS MAY BE ADJUSTED WITHIN THESE LIMITS TO MEET MINIMUM PIPE GRADES. FURTHER, THE PIPE LENGTH IS TAKEN FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. IN CALCULATING PERCENT GRADES THE PIPE LENGTH MAY BE SHORTENED BY 1 FOOT TO ASSIST IN MEETING MINIMUM PIPE GRADE.
- NOTE 6: ONLY STORM SEWER STRUCTURES, PIPES AND SUBSURFACE DRAINS AS WELL AS ANY OTHER ITEMS SPECIFICALLY INCLUDED IN THE CONTRACT FOR SERVICES ARE CONSIDERED A PART OF THESE 'RECORD DRAWINGS'. THIS FIRM EXCLUDES ANY OTHER ITEMS FROM BEING CONSIDERED 'A MATTER OF RECORD' PER THIS PLAN SET.



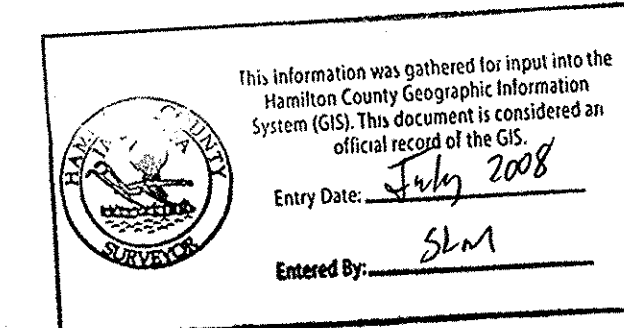
SECTION 9
STORM SEWER
RECORD DRAWINGS

PROJECT DATA

Project Address: OLIO ROAD APPROXIMATELY 1/4 MILE NORTH OF 104TH STREET FISHERS, IN
Project Area: 18.9 ACRES
Proposed Land Use: Single-Family Residential
Current Zoning: R1
Lots / Lots per Acre: Total - 39 / 0.48 Lots per Acre
Roadway Length: 0.48 Miles
Kingston Dr. = 0.20 miles
Beam Ridge Dr. = 0.04 miles
Geist View Dr. = 0.24 miles
Design Speed: 25 - MPH (Miles per Hour)

RECORD DRAWING INDEX

SHT	DESCRIPTION
CS	COVER SHEET
C205	SITE DEVELOPMENT PLAN
C206	SITE DEVELOPMENT PLAN
C701	STORM SEWER PLAN AND PROFILE
C702	STORM SEWER PLAN AND PROFILE
C703	STORM SEWER PLAN AND PROFILE
C704	STORM SEWER PLAN AND PROFILE DETAILS
C705	STORM SEWER PLAN AND PROFILE DETAILS



BENCHMARKS

THE SPRINGS OF CAMBRIDGE- SECTION NINE (9)
BENCHMARKS
REFERENCE BENCHMARK: MAGS MONUMENT (STATION #4) LOCATED ON THE NORTH SIDE OF EAST FALL CREEK ROAD NEAR A BOAT DOCK PARKING LOT WHICH IS 0.15 MILES EAST OF GEIST ROAD AND BEING 12 FEET +/- NORTH OF THE NORTH EDGE OF PAVEMENT AND NEAR THE SOUTHWEST CORNER OF THE PARKING LOT.
ELEV.= 792.45 (NAVD 1988 DATUM)
TEMPORARY BENCHMARK (TBM): TOP OF CONTROL POINT REBAR (POINT # 405) LOCATED FROM THE COPPERFIELD FOUND AT THE INTERSECTION OF KINGSTON DRIVE AND MARINA WAY APPROXIMATELY 640 FEET NORTH AND 250 FEET EAST TO THE TBM.
ELEV.= 787.13 (NAVD 1988 DATUM)
HSE REFERENCE BENCHMARK: HSE DISC (POINT #HSE10) IN CONCRETE AT THE ENTRANCE TO ASHFORD FRONT ON THE WEST SIDE OF DEERSTONE LAKE, 17.0 FEET WEST OF BACK OF CURB, 28.4 FEET SOUTHWEST OF BACK OF CURB AT CURB INLET & 15.0 FEET SOUTHWEST OF A FIRE HYDRANT.
ELEV.= 802.20 (NAVD 1988 DATUM)

CONTACT CO. / PERSON FOR

NAME	PHONE NO.	FAX NO.
OWNER/DEVELOPER	ALAN ROSENBERG (317) 845-0270	(317) 845-0766
NOBLESVILLE PLANNING DEPT.	STEVE HANTLEY, DIRECTOR (317) 773-4614	(317) 776-6363
TRAFFIC	HAMILTON COUNTY HIGHWAY (317) 773-7770	(317) 776-9614
POWER	CENTRAL INDIANA POWER (317) 462-4417	
CO.SURVEYOR	KENT WARD (317) 776-8495	(317) 776-9628
WATER	VEOLA WATER CO. (317) 327-5772	
GAS	INDIANA GAS CO. (317) 584-3700	
TELEPHONE	HANCOCK RFDAL. (317) 326-8031	
SANITARY SEWER/HSE	SAMCO/HSE, JIM HART (317) 577-1150	(317) 577-3642
EROSION	HAM CO SWCD-JOHN SOUTH (317) 773-1406	
CABLE	INSIGHT CABLE (317) 776-0660	(317) 773-5439
DRAINAGE	HAMILTON CO. SURVEYOR (317) 776-8495	
	STEVE CASH	

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CRPE TEAM 317-842-6777 FAX-841-4798 EXT. NO.

PROJECT MGR	KEVIN ROBERTS	645
PROJECT ENGINEER	JOE SHARP	675
PROJECT SURVEYOR	TERRY MILLER	745
CAD TECH.	CHAD SCHAEFFER	652
QUALITY ASSURANCE	DAVID LACH	661

RECORD DRAWING

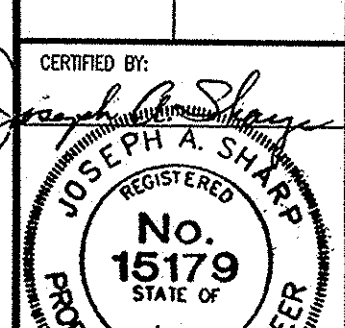
DWG. TYPE FILE NUMBER

Revision	Date	Description

ARCHITECTURE
LANDSCAPE ARCHITECTURE
LAND PLANNING
LAND SURVEYING
LAND SURVEYORS
LAND SURVEYOR ENGINEERS
CS

7172 GRAHAM ROAD
INDIANAPOLIS, IN 46250
(317) 842-6777 FAX (317) 841-4798
E-Mail crpe@crpe.biz

COVER SHEET
THE SPRINGS OF CAMBRIDGE
SECTION 9
MARINA I, LP
11691 FALL CREEK ROAD
INDIANAPOLIS, IN 46251
PH. (317) 845-0270



CERTIFIED BY:
JOSEPH A. SHARP
REGISTERED PROFESSIONAL ENGINEER
INDIANA
7-31-06

Drawn By: C. SCHAEFFER
Checked By: J. SHARP
Quality Assurance: D. LACH

Scale: 1" = 200'
Sheet: CS
Date: 04-01-05
Project Number: 0990460-30010

STRUCTURE DATA TABLE

STR. NO.	TC/RIM ELEV.	INV. IN.	INV. OUT.	DEPTH #	STR. SIZE	STR. TYPE	CASTING TYPE	PIPE SIZE	DIRECTION OF PIPE IN/OUT
701	996.49	992.99	992.99	0.5	48"	D-21	R-4342	36"	NE/SW
702A	900.51	995.2	995.2	0.0	60"	D-21	R-4342	36"	NE/SW
702B	801.01	977.8	995.6	1.0	60"	D-21	R-4342	36"	SE/SW
703			884.5		24"	ST-3A	END SECTION	24"	SE OUT
704	985.3	985.3	985.3	0.0	48"	D-20	R-4342	18"	SW/NW
704A	985.3	985.3	985.3	0.0	48"	D-20	R-1772	15"	E/N
705	785.2	785.2	785.2	0.0	24"x36"	CB	R-3501-N	15" 18"	SE/NE
706	785.2	785.2	785.2	0.0	24"x36"	CB	R-3501-N	15"	NW OUT
707			741.36		24"	ST-3A	END SECTION	24"	SE OUT
708A	886.46	786.36	786.36	14.3	48"	D-21	R-4342	24"	SE/NW
708	886.46	786.36	786.36	14.3	48"	D-21	R-3501-R	24"	SE/NW
709	886.46	886.36	786.36	4.5	48"	D-21	R-3501-L	24"	SW/NW
710	886.36	886.36	886.36	0.0	48"	D-21	R-4342	24"	SW/NE
711	811.56	809.56	809.56	14.8	48"	D-21	R-4342	12, 24"	SW/NE
712	811.56	811.56	811.56	0.0	24"x36"	CB	R-3501-R	12"	SW/NE
713	811.56	811.56	811.56	0.0	24"x36"	CB	R-3501-L	12"	NE OUT
714			786.56		24"	ST-3A	END SECTION	24"	NW OUT
715A	803.56	788.81	788.81	14.88	48"	D-21	R-4342	18, 24"	SE/NW
715	803.21	799.66	799.66	6.4	24"x36"	CB	R-3501-N	18"	SE/NW
716	803.21	799.56	799.56	5.9	24"x36"	CB	R-3501-N	15, 18"	SW/NW
717	803.56	799.66	799.66	2.4	24"x36"	ST-36	R-4342	12, 15"	SW/NW
718	811.56	809.56	809.56	7.0	24"x36"	ST-36	R-4342	12"	SW/NW
719	811.56	809.56	809.56	3.0	24"x36"	ST-36	R-4342	12"	NE OUT
720			784.56		30"	ST-3A	END SECTION	30"	SE OUT
721	803.56	787.56	787.56	16.9	48"	D-21	R-4342	30"	SE/NW
722	803.56	787.56	787.56	16.9	48"	D-21	R-4342	24, 30"	SE/NE
723	811.56	809.56	809.56	4.3	48"	D-21	R-4342	21"	S/NW
724	811.56	809.56	809.56	1.8	48"	D-20	R-1772	21"	SE/N
725			884.6		18"	ST-3A	END SECTION	18"	E OUT
726A	885.6	789.1	789.1	16.2	24"x36"	CB	R-4342	18"	E/W
726	885.6	789.1	789.6	5.9	24"x36"	CB	R-3501-N	15, 18"	E/W
727	885.6	789.1	789.1	16.2	24"x36"	CB	R-3501-N	12, 15"	E/W
728			801.1		12"	ST-36	R-4342	12"	W OUT
729A	814.0	809.6	809.6	4.3	48"	R-4342	18"	SE/SW	
729B	821.0	811.8	811.8	7.0	48"	D-20	R-1772	18"	NW OUT
730			884.5		15"	ST-3A	END SECTION	15"	NW OUT
731	934.5	885.5	885.5	3.2	24"x36"	ST-36	R-4342	15"	SE/NW
732	934.5	887.9	888.0	4.6	24"x36"	CB	R-3501-R	15"	SE/NW
733			888.4		24"x36"	CB	R-3501-L	15"	NW OUT

* DEPTH = TC - (INV + DA + THICKNESS) CB=CATCH BASIN WITH 2" SUMP NOTE: TABLE TO BE LOCATED ON DEVELOPMENT PLAN

NOTE: CONTRACTOR SHALL BID PIPE QUANTITIES AND STRUCTURES BASED UPON INFORMATION SHOWN ON THE PLAN & PROFILE SHEETS.

THIS ENGINEERED SITE PLAN DOES (NOT) DISCLOSE THE REQUIRED 100 YEAR FLOOD ELEVATION OR WETLAND RESTRICTIONS IN COMPLIANCE WITH REQUIREMENTS OF THE INDIANA DEPARTMENT OF NATURAL RESOURCES (DNR), THE U.S. ARMY CORPS OF ENGINEERS OR THE FLOOD INSURANCE RATE MAPS (FIRM). THE LOT OWNER OR HIS ENGINEER SHOULD CONSULT THESE SOURCES BEFORE PREPARING SPECIFIC SITE PLANS RELATING TO BUILDING IMPROVEMENTS.

THE HOMEOWNER, BUILDER OR HIS REPRESENTATIVE MUST HAVE A PLOT PLAN PREPARED AND SEALED BY A PROFESSIONAL ENGINEER THAT MEETS ALL THE REQUIREMENTS OF THE PLANNING JURISDICTIONS, FEDERAL AND STATE REQUIREMENTS, LOCAL UTILITIES, COVENANTS AND ANY OTHER ENCUMBRANCES. THIS PLAN, AMONG OTHER THINGS, SHALL CONSIDER FLOOR LEVELS, STORM ROUTINGS, AND MINIMUM FLOOR ELEVATIONS. GRAVITY SEWER SHALL NOT BE CONSIDERED FOR LOWER LEVELS.

PAUL I. CRIFE, INC., SHALL BE HELD HARMLESS IF THESE REQUIREMENTS ARE NOT MET.

ANY CONSTRUCTION BELOW THE 100 YEAR FLOOD ZONE "A" REQUIRES PERMIT FROM FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA).

ANY CONSTRUCTION IN FLOODWAY REQUIRES PERMIT FROM INDIANA DEPARTMENT OF NATURAL RESOURCES (DNR).

MPS - (MINIMUM PAD GRADE) MEANS THE DEVELOPER IS TO FILL THE AREA TO THE ELEVATION SHOWN ON THE PLANS.

MFE - (MINIMUM FINISHED ELEVATION) MEANS THE FINISHED GRADE AROUND THE BUILDING. NO OPENING CAN BE BELOW THIS GRADE. SEE DETAIL M-32B.

NO PAD - MEANS THE LOT OWNER MUST DEVELOP AN INDIVIDUAL PLOT PLAN AND NO PAD FILL REQUIRED BY THE CONTRACTOR.

MFG - MINIMUM FLOOR GRADE MEANS THE LOWEST FINISH FLOOR ELEVATION TO BE SERVICED BY GRAVITY SEWERS.

FFG - (FLOOD PROTECTION GRADE) MEANS THIS IS THE LOWEST FLOOR ELEVATION PER INDIANA DEPARTMENT OF NATURAL RESOURCES FLOOD CONTROL DIVISION. NO OPENING CAN BE BELOW THIS ELEVATION.

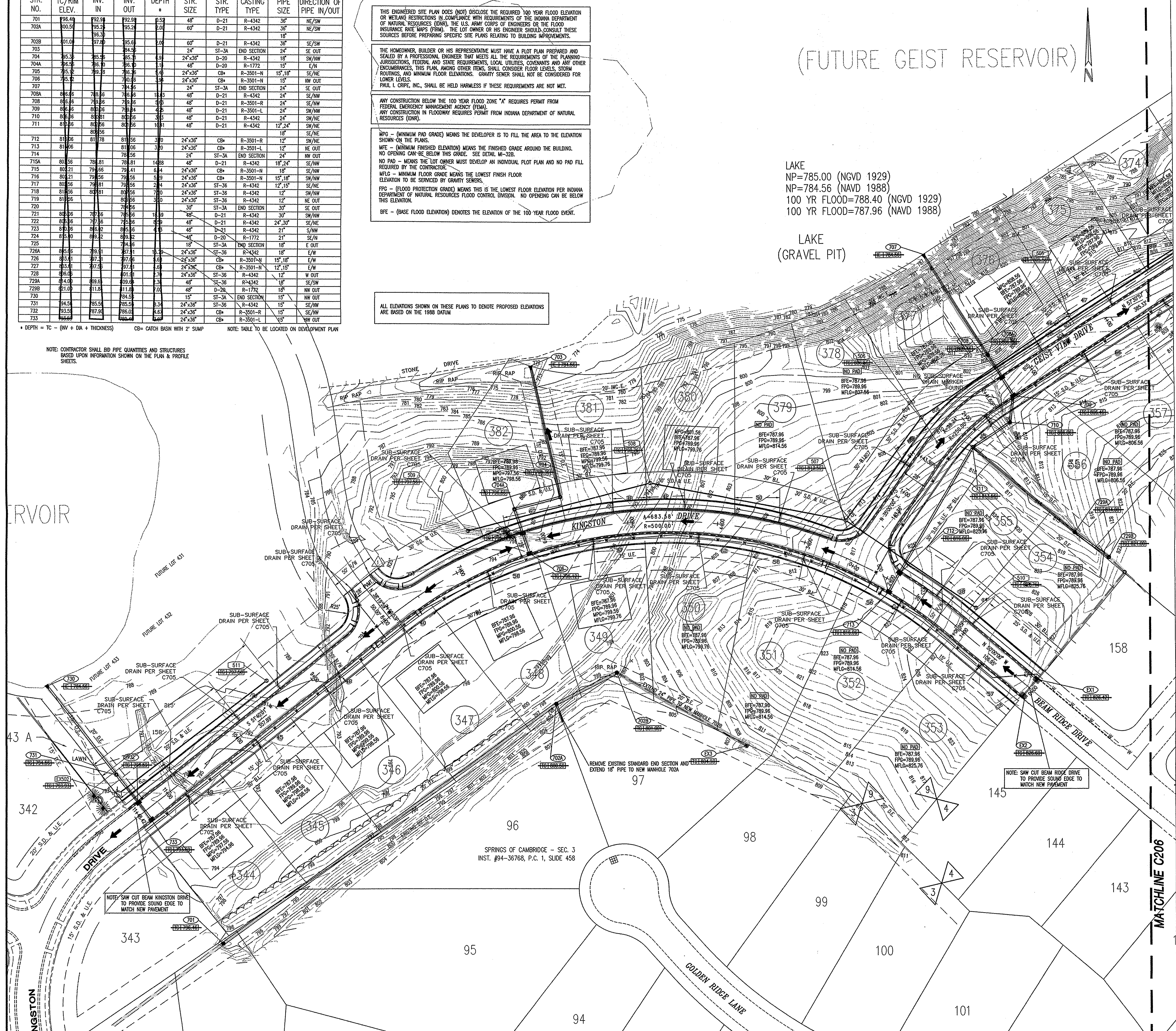
BFE - (BASE FLOOD ELEVATION) DENOTES THE ELEVATION OF THE 100 YEAR FLOOD EVENT.

ALL ELEVATIONS SHOWN ON THESE PLANS TO DENOTE PROPOSED ELEVATIONS ARE BASED ON THE 1988 DATUM

(FUTURE GEIST RESERVOIR)

LAKE NP=785.00 (NGVD 1929)
NP=784.56 (NAVD 1988)
100 YR FLOOD=788.40 (NGVD 1929)
100 YR FLOOD=787.96 (NAVD 1988)

LAKE (GRAVEL PIT)



SITE PLAN LEGEND

PROPOSED CONSTRUCTION

- BUILDING SETBACK LINE
- EASEMENT LINE
- RIGHT-OF-WAY
- CENTERLINE
- FENCE
- CURB
- D.E. = DRAINAGE EASEMENT
- S.D. & U.E. = SANITARY, DRAINAGE AND UTILITY EASEMENT
- U.E. = UTILITY EASEMENT
- B.L. = BUILDING SETBACK LINE
- D. & U.E. = DRAINAGE & UTILITY EASEMENT
- S.E. = SANITARY EASEMENT
- IRR. S.E. = IRREGULAR SANITARY EASEMENT
- IRR. L.S.D.&U.E. = IRREGULAR INGRESS/EGRESS, SANITARY, DRAINAGE & UTILITY EASEMENT
- N.P. = NORMAL POOL
- 100 YR = 100 YEAR POOL STORAGE ELEVATION

LOT NUMBER: 7

LOT AREA: 211,01.20 SQ. FT.
0.48 ACRES

EMERGENCY OVERTURN ROUTE

Information gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.

Entry Date: July 2008

Entered By: slm

- SITE WORK GENERAL NOTES AND SPECIFICATIONS**
- NOTICES AND PERMITS**
- 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.
 - IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING CONSTRUCTION.
 - IT SHALL BE THE CONTRACTORS RESPONSIBILITY FOR NOTIFICATION AND COORDINATION OF ALL CONSTRUCTION WITH RESPECTIVE UTILITY COMPANIES.
 - IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THE PROJECT; FAILURE TO DO SO MAY RESULT IN REMOVAL AND REPLACEMENT OF THE DEFECTIVE WORK. IT IS RECOMMENDED THAT THE DEVELOPER HAVE A QUALIFIED INSPECTOR ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.
 - IT IS ESSENTIAL THAT THE WORK TO BE DONE IN CONJUNCTION WITH THIS PROJECT SHALL BE INSTALLED ACCORDING TO THESE SPECIFICATIONS. THE ENGINEER WILL BE REQUIRED TO CERTIFY TO CERTAIN PORTIONS OF THIS PROJECT UPON COMPLETION. THEREFORE, IT IS NECESSARY TO OBTAIN APPROVAL AND ACCEPTANCE BY THE CITY THAT CONSTRUCTION WAS DONE IN COMPLIANCE WITH THESE PLANS AND SPECIFICATIONS.
 - ALL QUANTITIES GIVEN ON THE PRINTS, VERBALLY OR IN THE SCOPE OF WORK SECTION ARE ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTOR.
 - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS, FINAL RULE 29 CFR PART 1926, SUBPART "F" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
 - EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
 - LOCATIONS & ELEVATIONS OF "FLOODWAY LIMITS" AND "100 YEAR FLOOD LIMITS" ARE SHOWN FOR REFERENCE ONLY. DEVELOPER/BUILDER/INDIVIDUAL LOT OWNER TO REFER TO NATIONAL FLOOD HAZARD INSURANCE MAP (F.E.M.A.) TO DETERMINE FLOOD HAZARD POTENTIAL PRIOR TO NORMAL LOT/PROJECT CONSTRUCTION.
 - ALL RADI AND STREET DIMENSIONS SHALL BE MEASURED TO BACK OF CURB.
 - BEARINGS, DIMENSIONS AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS AND PLATS FOR EXACT INFORMATION.
 - TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL STANDARDS.
 - SEE UTILITY PLAN FOR SANITARY, STORM AND WATER STRUCTURE LOCATIONS.
 - SEE SHEETS C203 AND C204 FOR SITE DETAILS REFERENCED.
 - ALL UTILITIES CROSSING AT CURBS SHALL BE STAMPED PER DETAIL C-6 ON SHEET C204.
 - IF ANY DISCREPANCIES OR CONFLICTS OCCUR BEFORE OR DURING CONSTRUCTION, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER IMMEDIATELY.
 - ALL CURBS TO HAVE UNDERDRAINS. SEE DETAIL P-1.
- NOTE: NO WATER MAIN VALVES WILL BE PLACED WITHIN THE STREET PAVEMENT OR CURB.
- NOTE: THE CONTRACTOR SHALL STAMP THE LETTER "CS" IN THE CURB PERPENDICULAR TO THE SANITARY LATERAL MARKER. SEE DETAIL C-6 ON SHEET C-204.
- NOTE: DECORATIVE SIGNS, SPRINKLER SYSTEMS, TREE LANDSCAPING MOUNDS, FENCES, LIGHT POLES OR OTHER SUCH AMENITIES ARE NOT PERMITTED IN THE RIGHT OF WAY.
- "HOLEY MOLEY" SAYS CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU DIG IT'S THE LAW.
- CAUTION: LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE HAS BEEN OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

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01 02

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LAND PLANNING
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INDIANAPOLIS, INDIANA 46250
(317) 842-6777 FAX (317) 841-4798
E-Mail: crife@crife.biz

CRIFE

SITE DEVELOPMENT PLAN
THE SPRINGS OF CAMBRIDGE
SECTION 9

MARINA I.L.P.
11691 FALL CREEK ROAD
INDIANAPOLIS, IN 46331
PH. (317) 845-0270

CERTIFIED BY:
Joseph A. Slay

REGISTERED PROFESSIONAL ENGINEER
No. 15179
STATE OF INDIANA

DRAWN BY: CMQ AND AAF
CHECKED BY:
QUALITY ASSURANCE:
SCALE: 1" = 50'
SHEET: C205
DATE: 7/27/06
PROJECT NUMBER: 0990460-30010

THIS ENGINEERED SITE PLAN DOES (NOT) DISCLOSE THE REQUIRED 100 YEAR FLOOD ELEVATION OR WETLAND RESTRICTIONS IN COMPLIANCE WITH REQUIREMENTS OF THE INDIANA DEPARTMENT OF NATURAL RESOURCES (DNR), THE U.S. ARMY CORPS OF ENGINEERS OR THE FLOOD INSURANCE RATE MAPS (FIRM). THE LOT OWNER OR HIS ENGINEER SHOULD CONSULT THESE SOURCES BEFORE PREPARING SPECIFIC SITE PLANS RELATING TO BUILDING IMPROVEMENTS.

THE HOMEOWNER, BUILDER OR HIS REPRESENTATIVE MUST HAVE A PLOT PLAN PREPARED AND SEALED BY A PROFESSIONAL ENGINEER THAT MEETS ALL THE REQUIREMENTS OF THE PLANNING JURISDICTIONS, FEDERAL AND STATE REQUIREMENTS, LOCAL UTILITIES, COVENANTS AND ANY OTHER ENCUMBRANCES. THIS PLAN, AMONG OTHER ITEMS, SHALL CONSIDER FLOOR LEVELS, STORM ROUTINGS, AND MINIMUM FLOOR ELEVATIONS. GRAVITY SEWERS SHALL NOT BE CONSIDERED FOR LOWER LEVELS.
PAUL I. CRIFE, INC., SHALL BE HELD HARMLESS IF THESE REQUIREMENTS ARE NOT MET.

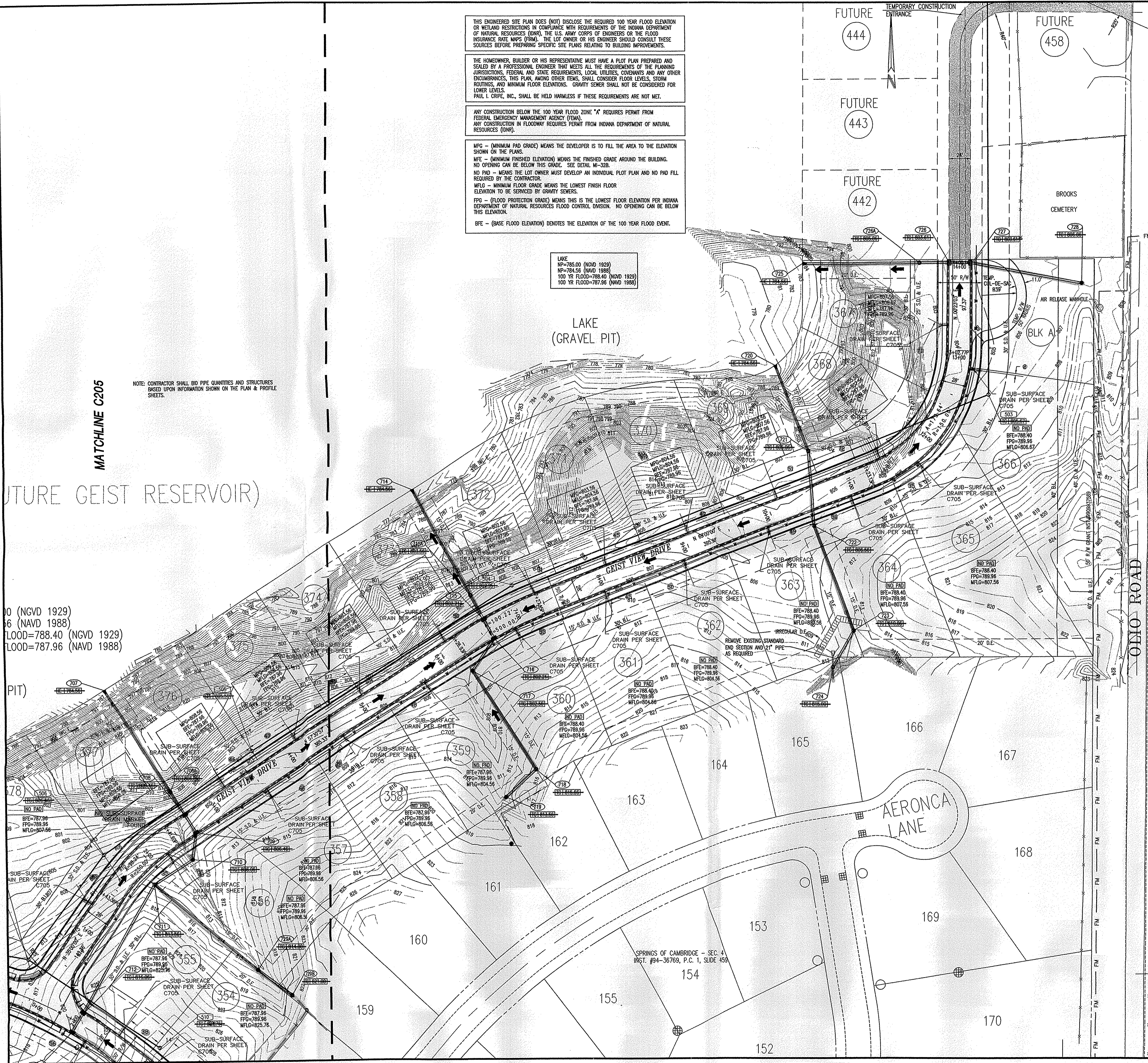
ANY CONSTRUCTION BELOW THE 100 YEAR FLOOD ZONE "A" REQUIRES PERMIT FROM FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA). ANY CONSTRUCTION IN FLOODWAY REQUIRES PERMIT FROM INDIANA DEPARTMENT OF NATURAL RESOURCES (DNR).

MFG - (MINIMUM PAD GRADE) MEANS THE DEVELOPER IS TO FILL THE AREA TO THE ELEVATION SHOWN ON THE PLANS.
MFE - (MINIMUM FINISHED ELEVATION) MEANS THE FINISHED GRADE AROUND THE BUILDING. NO OPENING CAN BE BELOW THIS GRADE. SEE DETAIL MI-328.
NO PAD - MEANS THE LOT OWNER MUST DEVELOP AN INDIVIDUAL PLOT PLAN AND NO PAD FILL REQUIRED BY THE CONTRACTOR.
MFLG - MINIMUM FLOOR GRADE MEANS THE LOWEST FINISH FLOOR ELEVATION TO BE SERVICED BY GRAVITY SEWERS.
FPG - (FLOOD PROTECTION GRADE) MEANS THIS IS THE LOWEST FLOOR ELEVATION PER INDIANA DEPARTMENT OF NATURAL RESOURCES FLOOD CONTROL DIVISION. NO OPENING CAN BE BELOW THIS ELEVATION.
BFE - (BASE FLOOD ELEVATION) DENOTES THE ELEVATION OF THE 100 YEAR FLOOD EVENT.

LAKE
NP=785.00 (NGVD 1929)
NP=784.56 (NAVD 1988)
100 YR FLOOD=788.40 (NGVD 1929)
100 YR FLOOD=787.96 (NAVD 1988)

MATCHLINE C205

NOTE: CONTRACTOR SHALL BID PIPE QUANTITIES AND STRUCTURES BASED UPON INFORMATION SHOWN ON THE PLAN & PROFILE SHEETS.



SITE PLAN LEGEND

PROPOSED CONSTRUCTION

- BUILDING SETBACK LINE
- EASEMENT LINE
- RIGHT-OF-WAY
- CENTERLINE
- FENCE
- CURB
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LOT NUMBER 7
LOT AREA 211,01.20 SQ. FT.
0.48 ACRES

EMERGENCY OVERTURN ROUTE

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Entry Date July 2008
Entered By: SLM

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 - IT IS ESSENTIAL THAT THE WORK TO BE DONE IN CONNECTION WITH THIS PROJECT SHALL BE INSTALLED ACCORDING TO THESE SPECIFICATIONS. THE ENGINEER WILL REQUIRE TO CERTIFY TO CERTAIN PORTIONS OF THIS PROJECT UPON COMPLETION. THEREFORE, IT IS NECESSARY TO OBTAIN APPROVAL AND ACCEPTANCE BY THE CITY THAT CONSTRUCTION WAS DONE IN COMPLIANCE WITH THESE PLANS AND SPECIFICATIONS.
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 - ALL CURBS TO HAVE UNDERDRAINS; SEE DETAIL P-1.

NOTE: NO WATER MAIN VALVES WILL BE PLACED WITHIN THE STREET PAVEMENT OR CURB.

NOTE: THE CONTRACTOR SHALL STAMP THE LETTER "SS" IN THE CURB PERPENDICULAR TO THE SANITARY LATERAL MARKER. SEE DETAIL C-6 ON SHEET C-204.

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"HOLEY MOLEY" SAYS CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU DIG. ITS THE LAW.

CAUTION
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1-800-382-6544
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RECORD DRAWING

KEYPLAN

Scale: 1" = 50'

Sheet: C206

Date: 7/27/08

Project Number: 0990460-30010

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LANDSCAPE ARCHITECTURE
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INDIANAPOLIS, INDIANA 46250
(317) 842-6777 FAX (317) 841-4798
E-Mail: crife@pica.biz

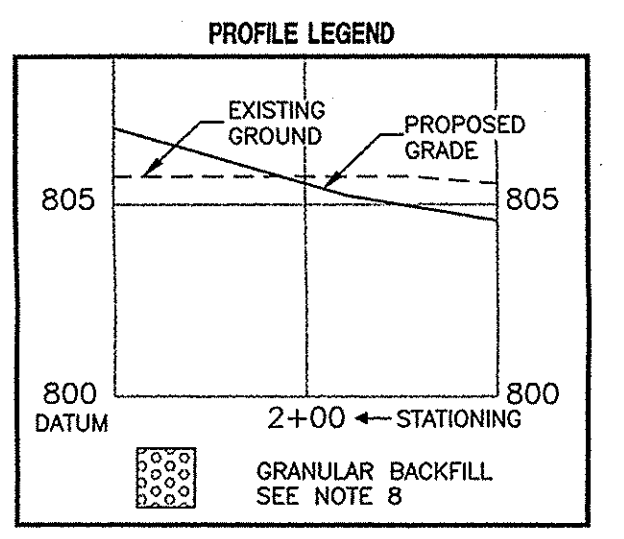
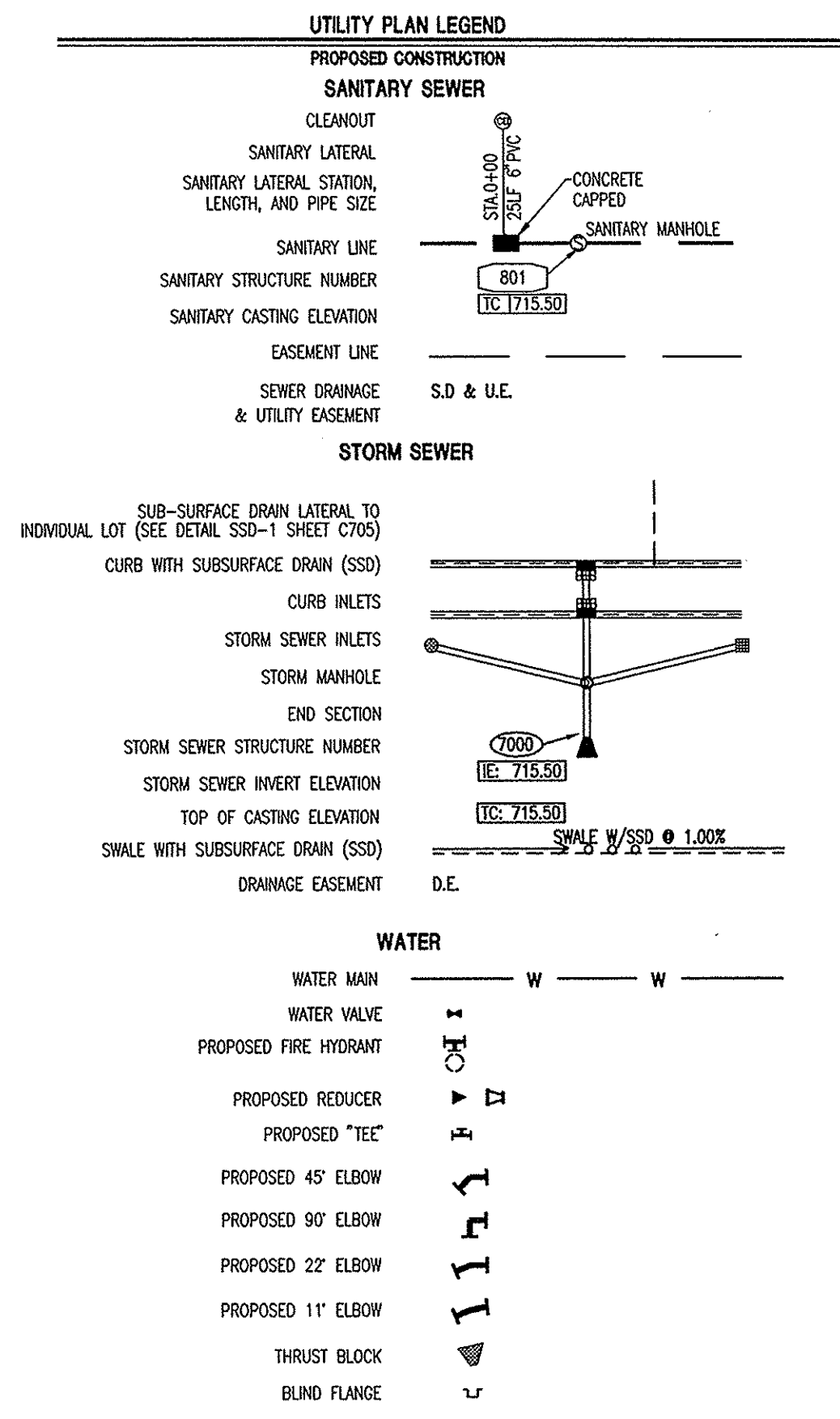
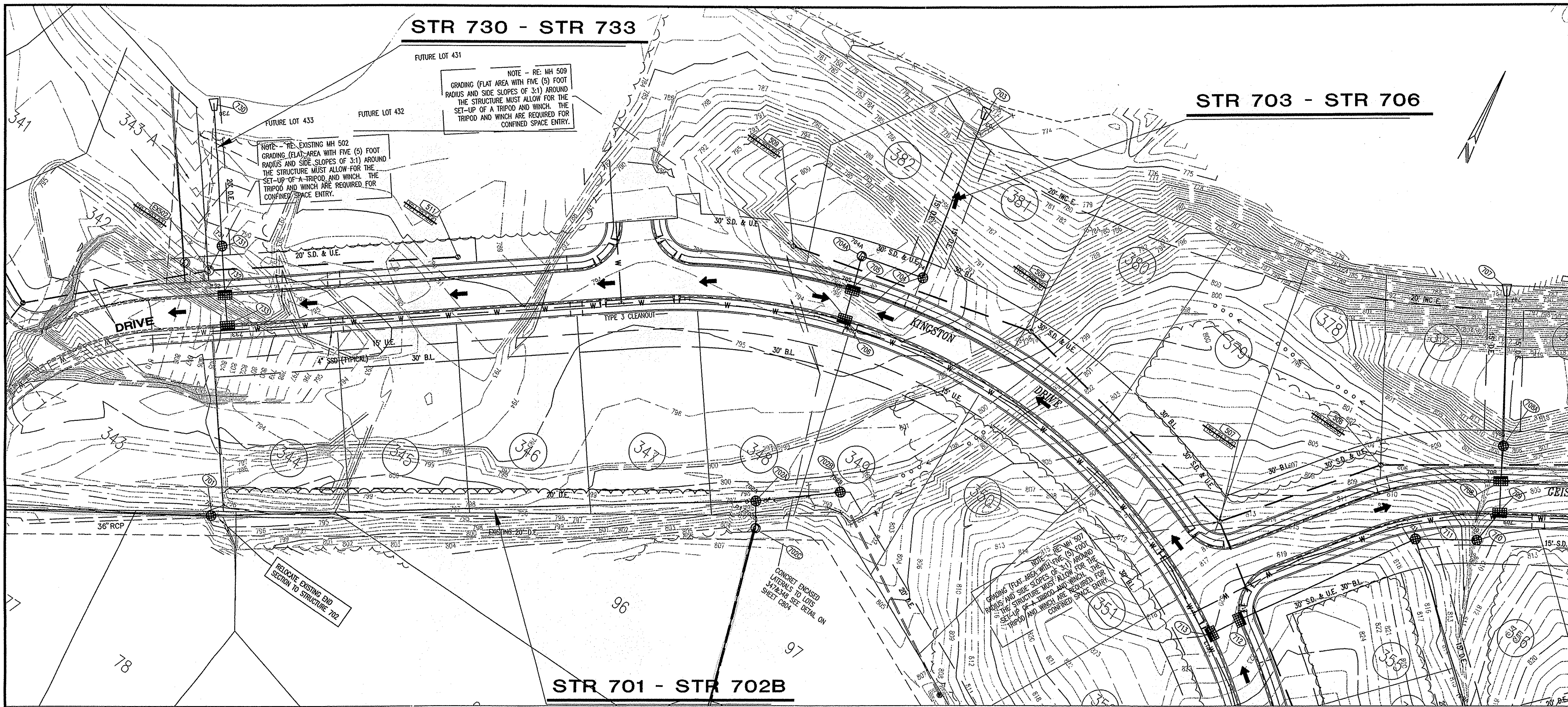
CRIFE

SITE DEVELOPMENT PLAN
THE SPRINGS OF CAMBRIDGE
SECTION 9

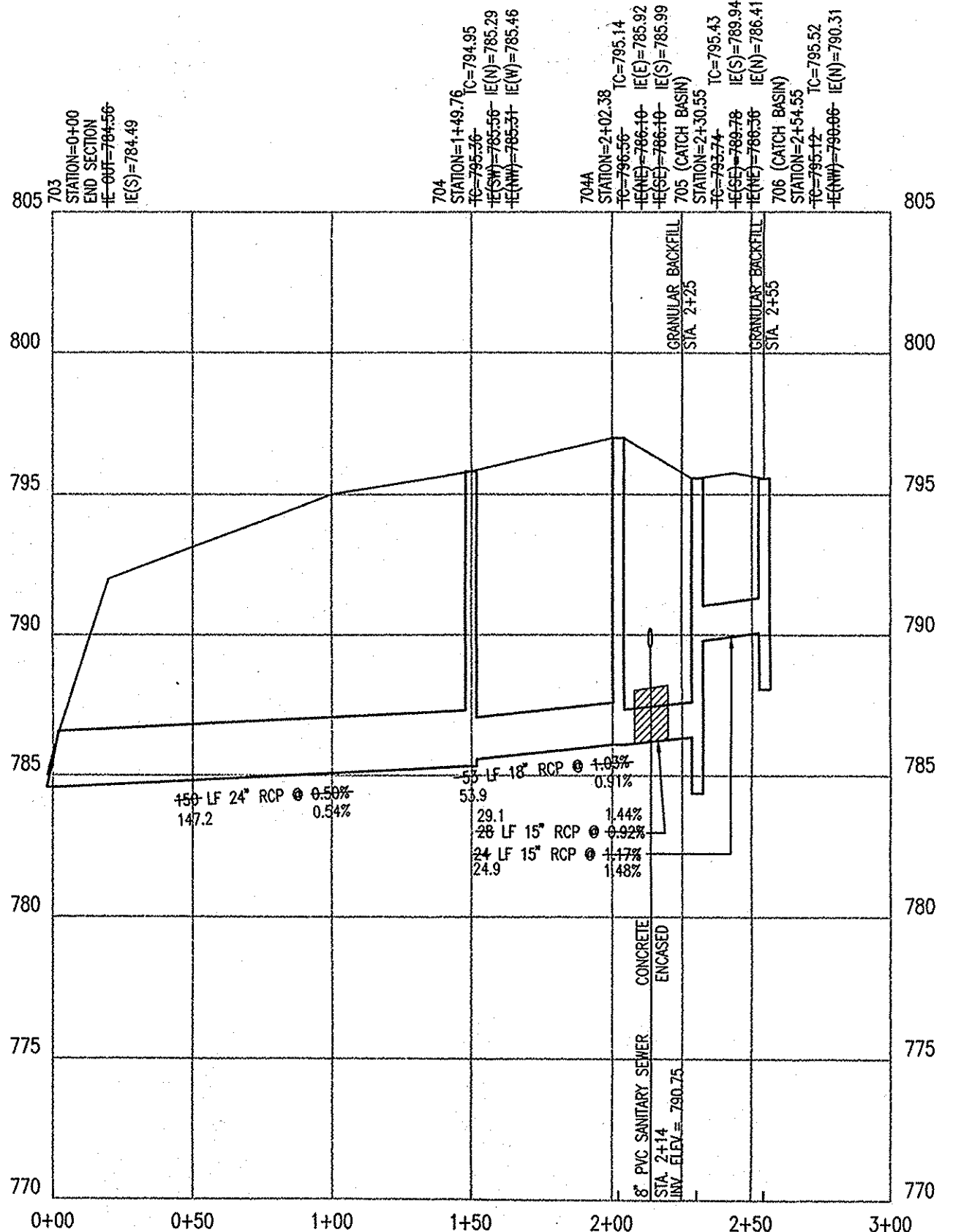
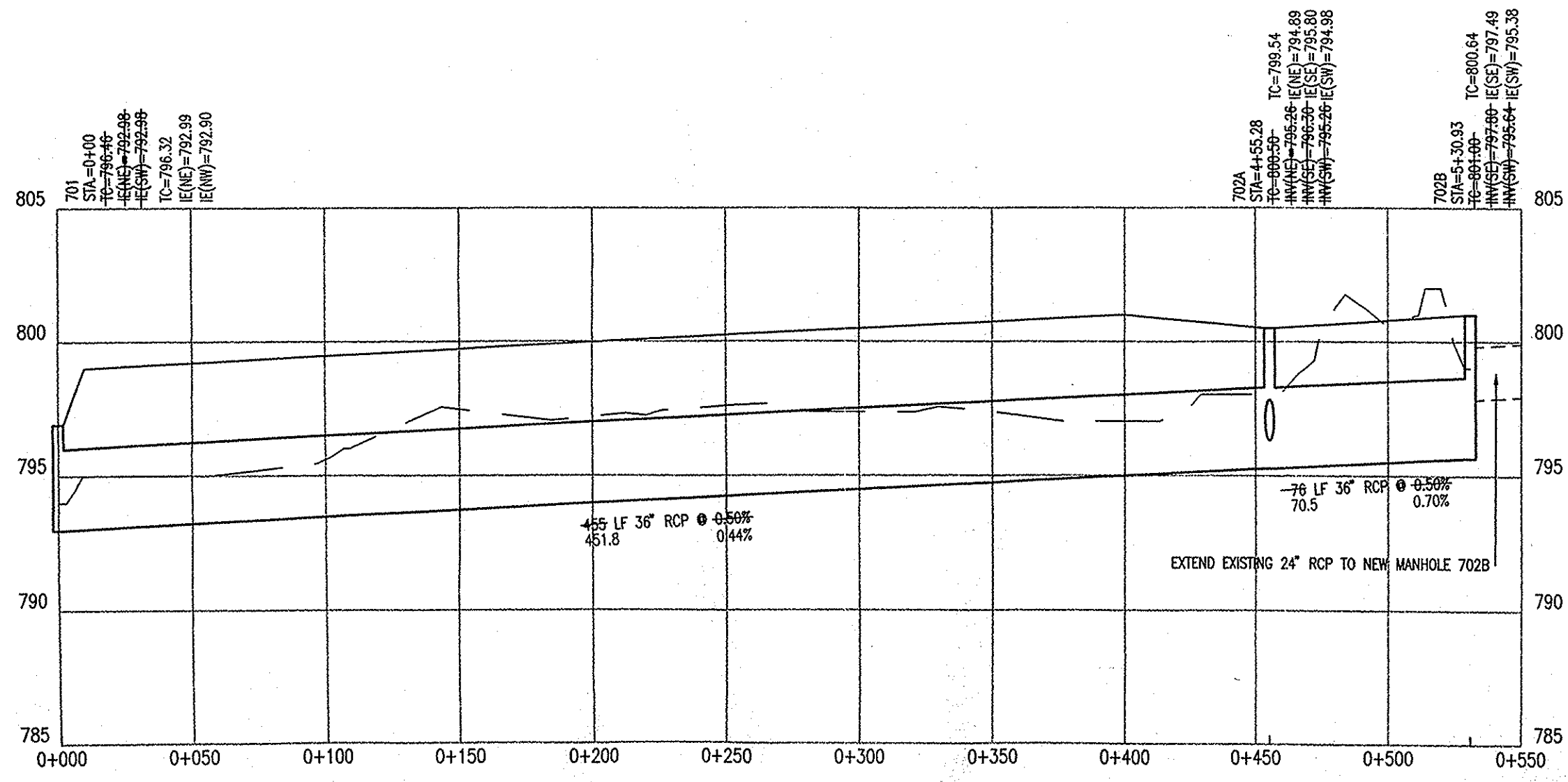
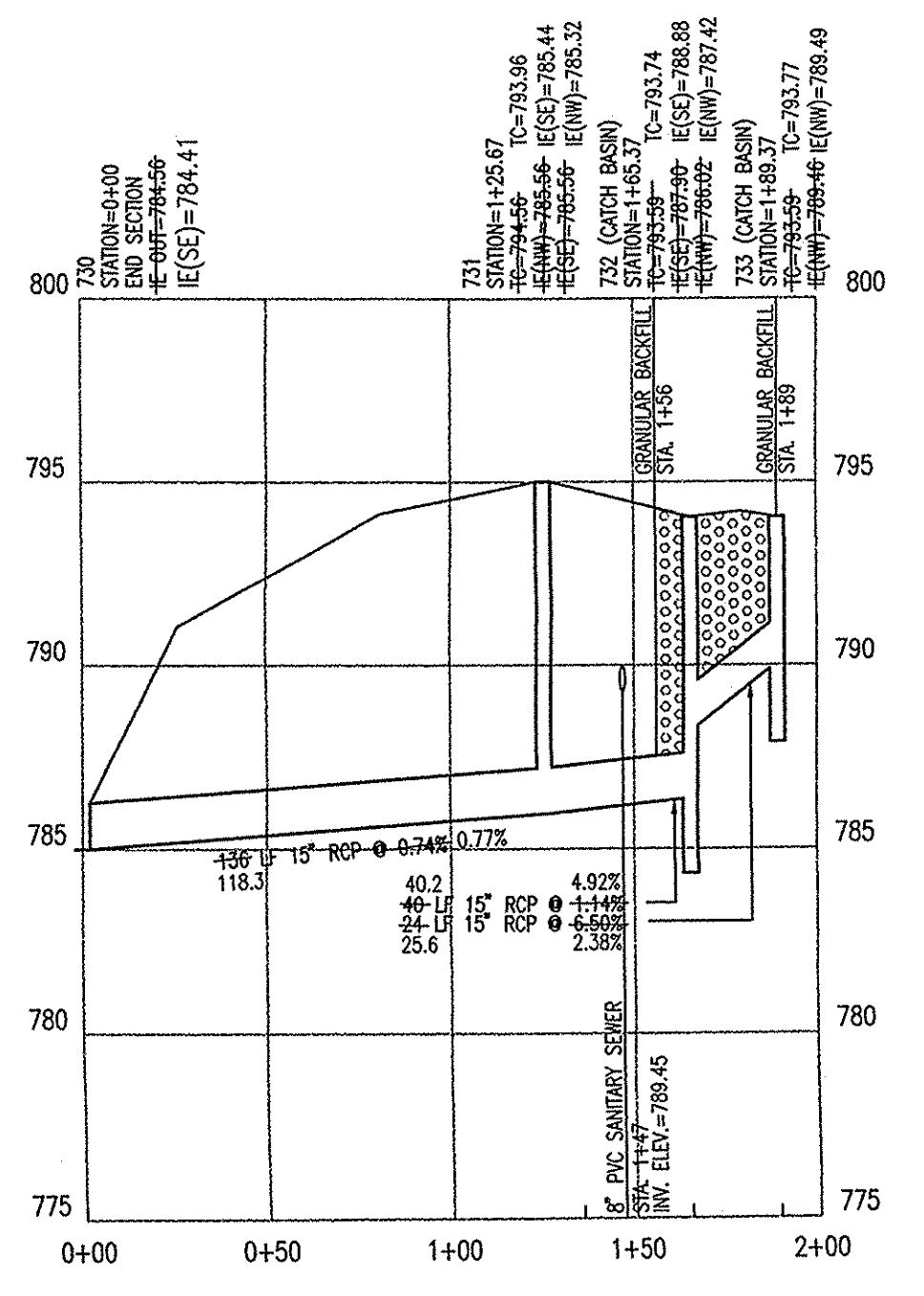
MARINA I. LP
11691 FALL CREEK ROAD
INDIANAPOLIS, IN 46331
PH: (317) 845-0270

CERTIFIED BY:
Joseph A. Sharr
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA
No. 15179

7-31-08
Drawn By: CAO AND AAF
Checked By:
Quality Assurance:
Scale:
Sheet: C206
Date: 7/27/08
Project Number: 0990460-30010



- STORM SEWER PLAN AND PROFILE NOTES:**
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS: FINAL RULE 29 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
 - IN ADDITION, EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
 - ALL STRUCTURES SHALL HAVE CASTINGS, JOINTS, LIFT RINGS, STEPS AND PIPE CONNECTIONS WELL GROUDED, TROWELED SMOOTH AND BRUSH FINISHED.
 - ALL STRUCTURES (IE: MANHOLES, INLETS) SHALL HAVE POURED FLOW LINES AND BENCH WALLS. THE FLOW LINES AND BENCH WALLS SHALL BE TROWELED SMOOTH AND BRUSH FINISHED.
 - FIELD ADJUSTMENTS OF TOP OF CASTING (I.C.) OF STRUCTURES MAY BE REQUIRED TO MEET FIELD CONDITIONS. ADJUSTMENTS EXCEEDING FIVE TENTHS (0.5) OF A FOOT MUST BE APPROVED BY THE ENGINEER TO DETERMINE THE INTEGRITY OF THE STRUCTURE. AT NO COST TO THE OWNER.
 - STORM STRUCTURES WITH INLET CASTINGS SHALL BE SET TO MAINTAIN A POSITIVE DRAINAGE FLOW INTO THE STRUCTURE.
 - STORM PIPE INVERTS AT OUTLET STRUCTURES (IE: END SECTIONS), AND PIPE LENGTHS MAY REQUIRE FIELD ADJUSTMENTS TO MEET ACTUAL FIELD CONDITIONS.
 - FULL DEPTH GRANULAR BACKFILL SHALL BE REQUIRED UNDER AND WITHIN (5) FEET OF ALL PAVED AREAS, INCLUDING CURBS, EDGE OF PAVEMENT, AND SIDEWALKS.
 - SEE SHEETS C704 AND C705 FOR STORM SEWERAGE DETAILS.
 - PIPES LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND INCLUDE END SECTIONS.



NOTE: ALL STREET CROSSINGS SHALL BE BACKFILLED WITH FULL DEPTH GRANULAR MATERIAL COMPACTED MECHANICALLY IN LIFTS.

NOTE: ALL STORM WATER CASTINGS SHALL CONTAIN A MESSAGE AT THE TOP OF THE CASTING STATING "DUMP NO WASTE - DRAINS TO WATERWAY" OR "DUMP NO WASTE - DRAINS TO FRESH WATER".

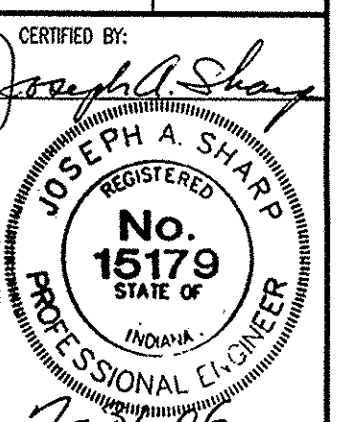
RECORD DRAWING

"HOLEY MOLEY" SAYS CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU DO IT'S THE LAW.

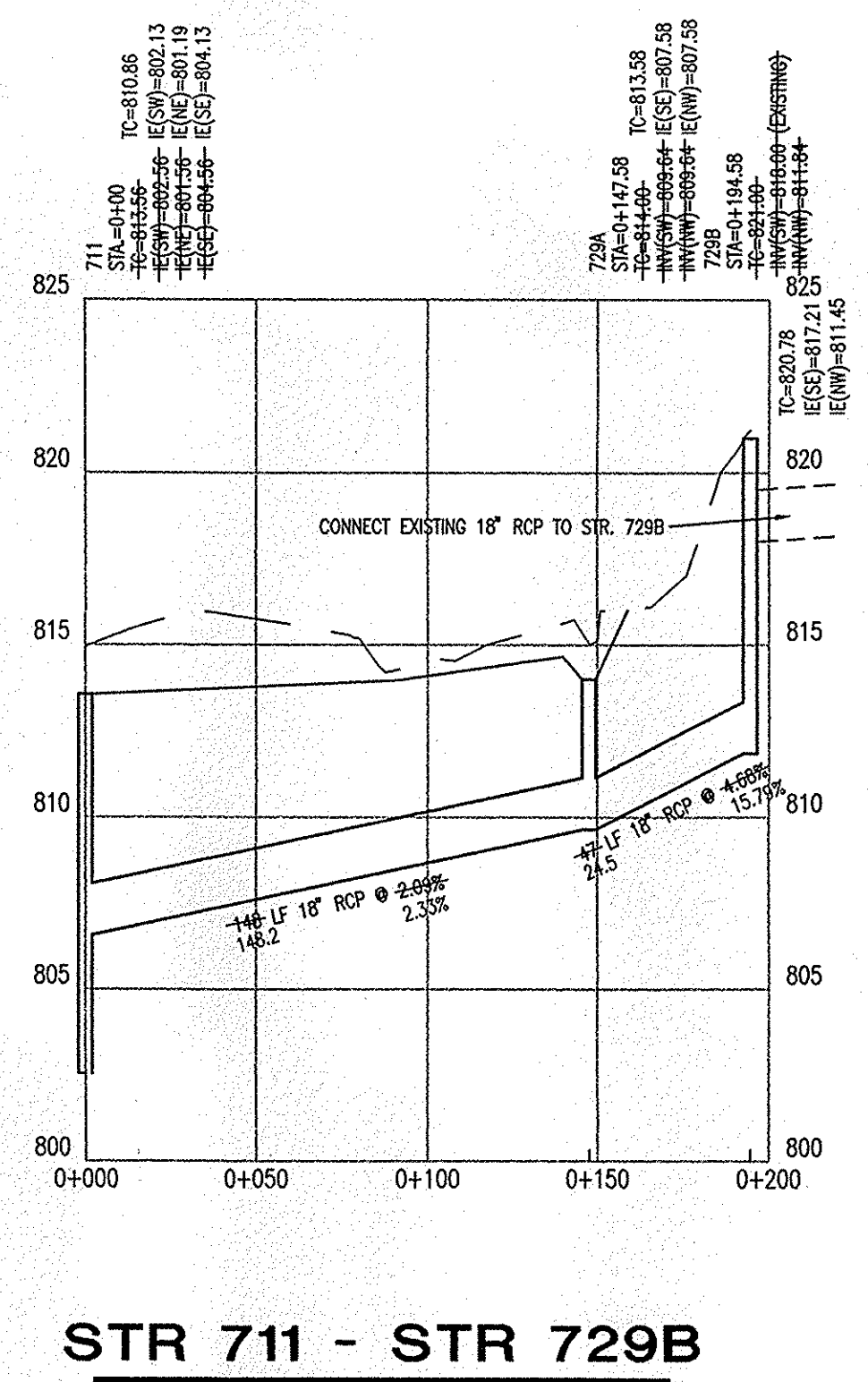
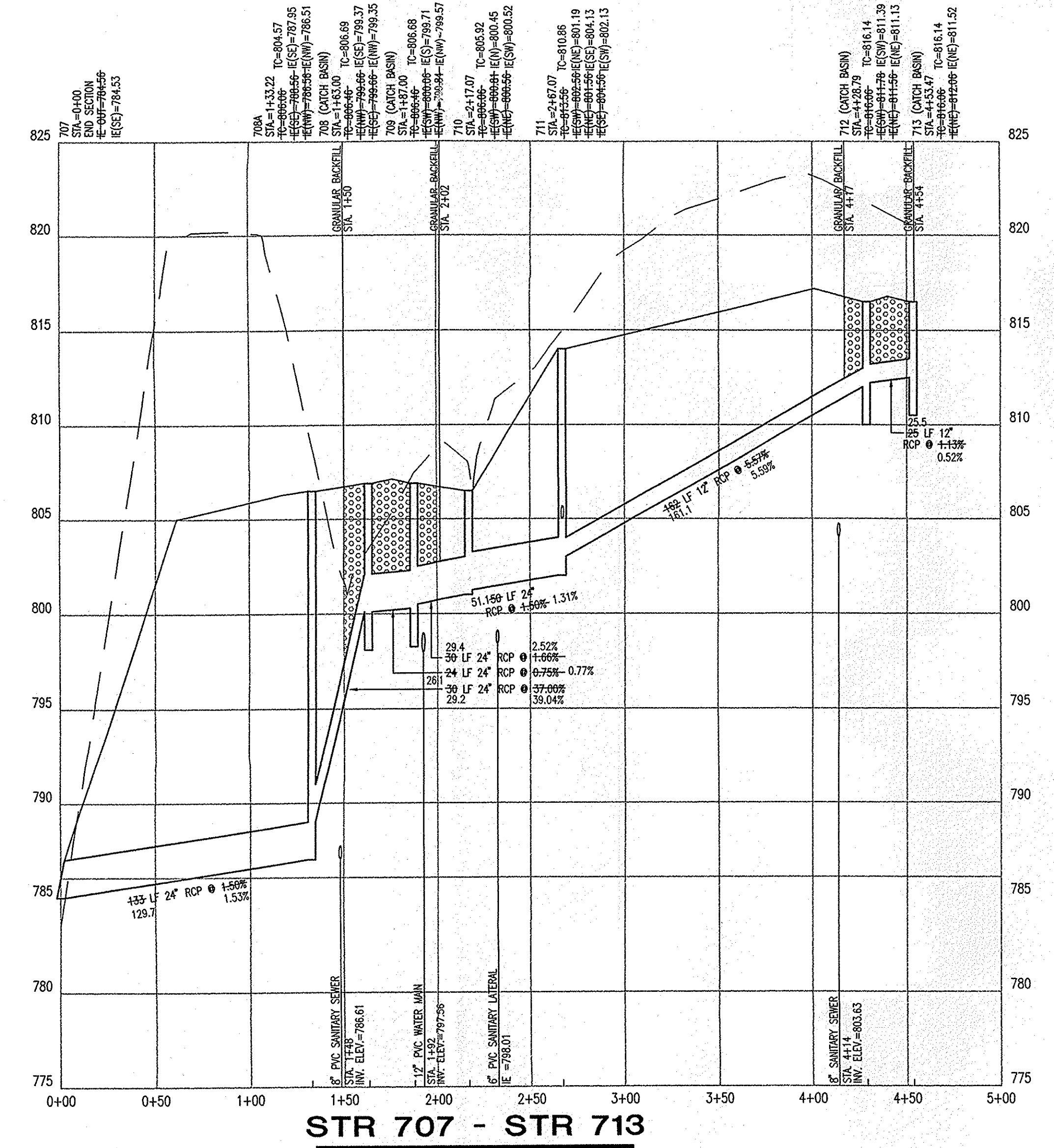
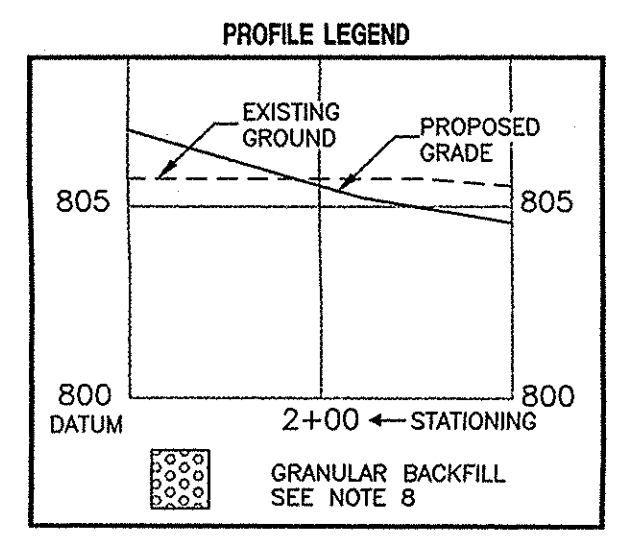
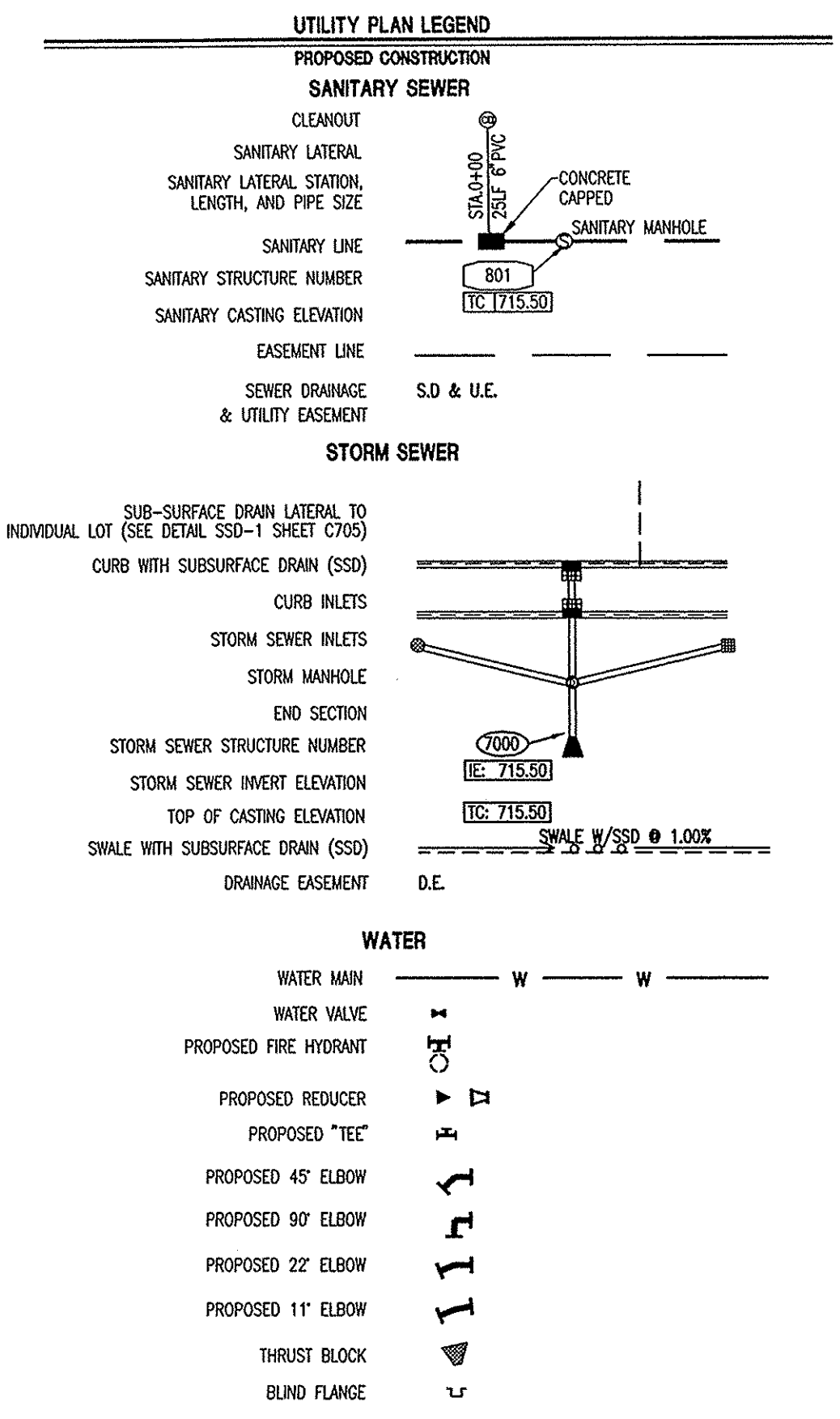
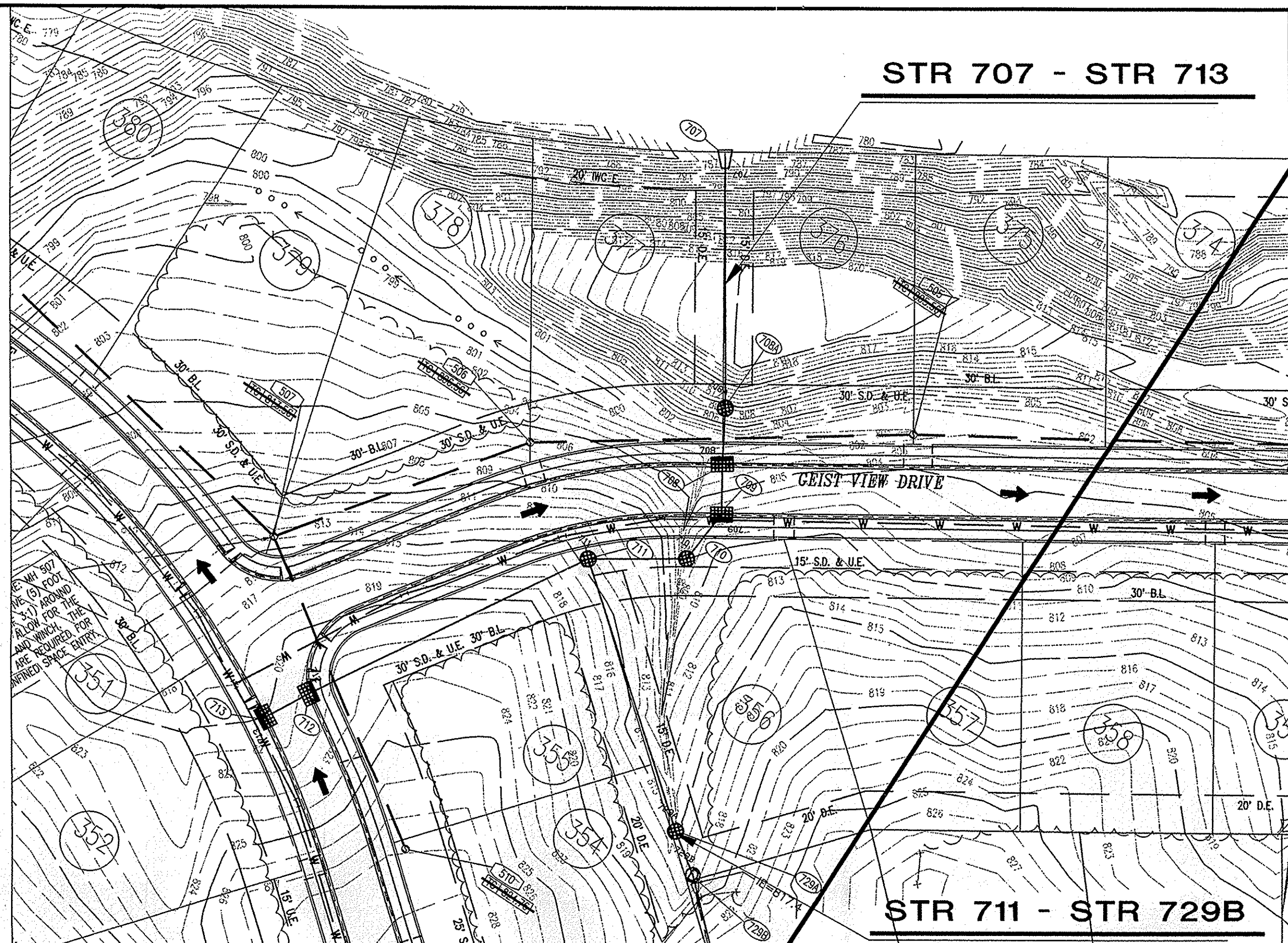
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STORM SEWER PLAN AND PROFILE
THE SPRINGS OF CAMBRIDGE
SECTION 9
MARINA I, LP.
 11691 FALL CREEK ROAD
 INDIANAPOLIS, IN 46331
 PH. (317) 845-0270



Drawn By: CMQ and AAF
 Checked By:
 Quality Assurance:
 Scale: 0" = 50'
 Sheet: **C701**
 Date: 7/27/06
 Project Number: 0990460-30010



- ### STORM SEWER PLAN AND PROFILE NOTES:
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS, FINAL RULE 29 CFR PART 1926, SUBPART "F" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
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 - SEE SHEETS C704 AND C705 FOR STORM SEWERAGE DETAILS.
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NOTE: ALL STREET CROSSINGS SHALL BE BACKFILLED WITH FULL DEPTH GRANULAR MATERIAL COMPACTED MECHANICALLY IN LIFTS.

NOTE: ALL STORM WATER CASTINGS SHALL CONTAIN A MESSAGE AT THE TOP OF THE CASTING STATING "DUMP NO WASTE - DRAINS TO WATERWAY" OR "DUMP NO WASTE - DRAINS TO FRESH WATER".

RECORD DRAWING

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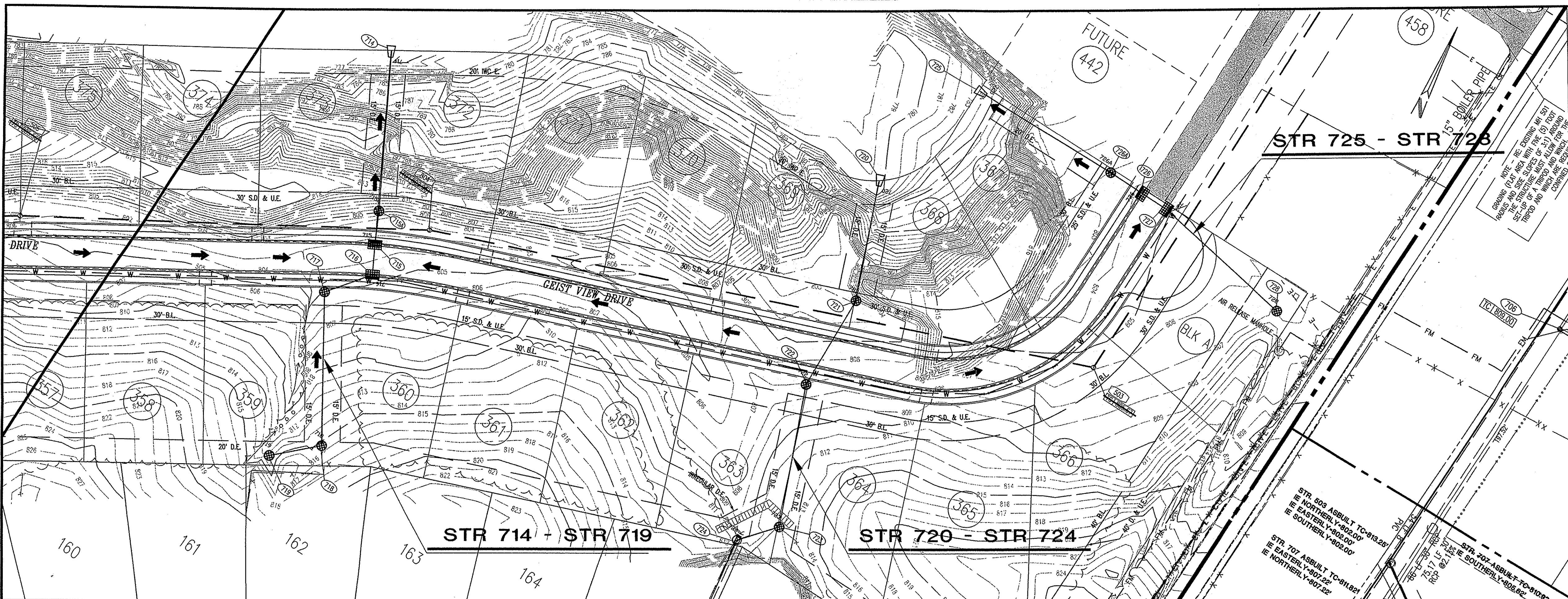
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STORM SEWER PLAN AND PROFILE
THE SPRINGS OF CAMBRIDGE
SECTION 9
MARINA I. LP
11691 FALL CREEK ROAD
INDIANAPOLIS, IN 46331
PH. (317) 845-0270

CERTIFIED BY:
Joseph A. Sharp

Drawn By: **CMQ AND AAF**
Checked By:
Quality Assurance:
Scale: 0 1" = 50'
Sheet: **C702**
Date: 7/27/06
Project Number: 0990460-30010



UTILITY PLAN LEGEND

PROPOSED CONSTRUCTION

SANITARY SEWER

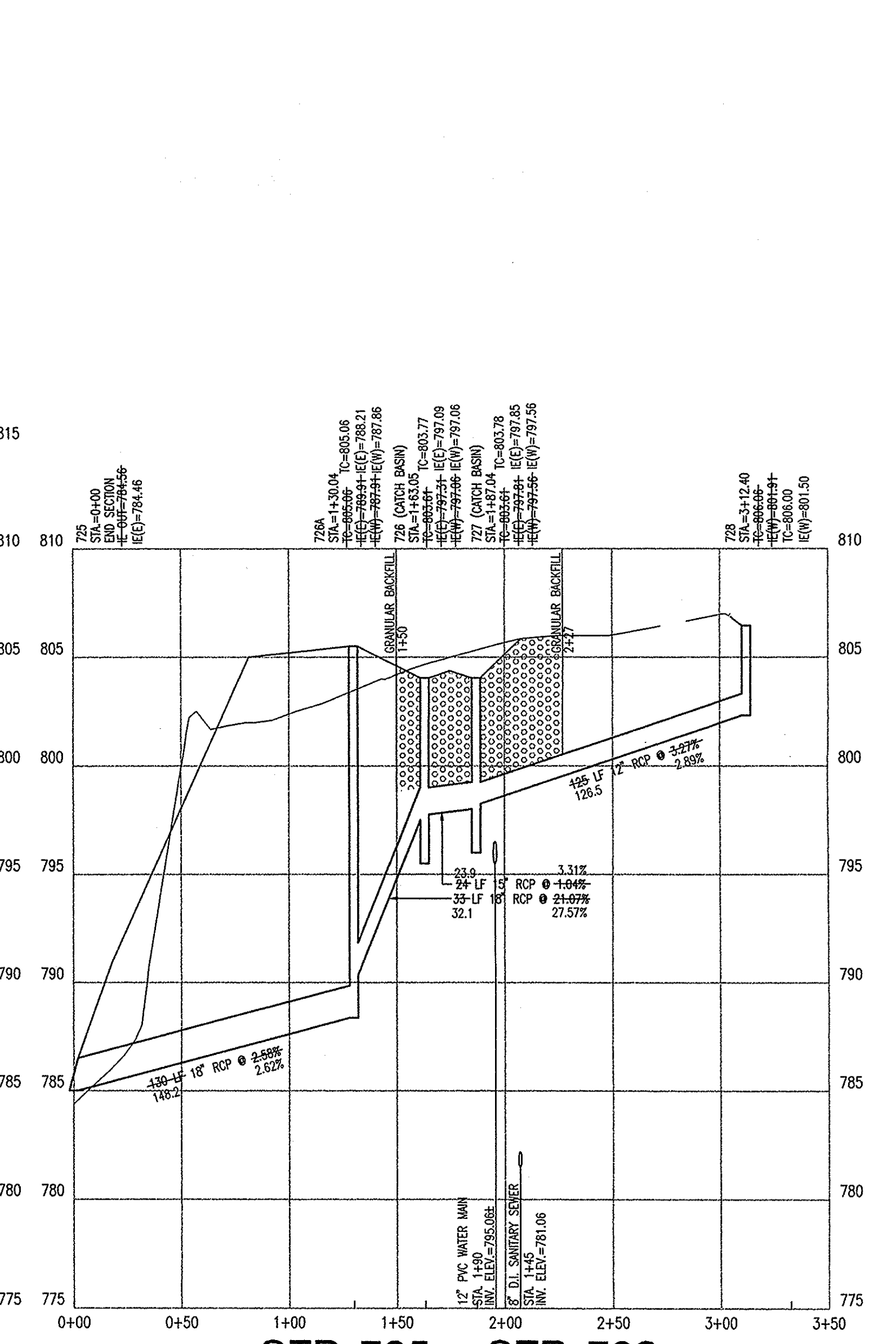
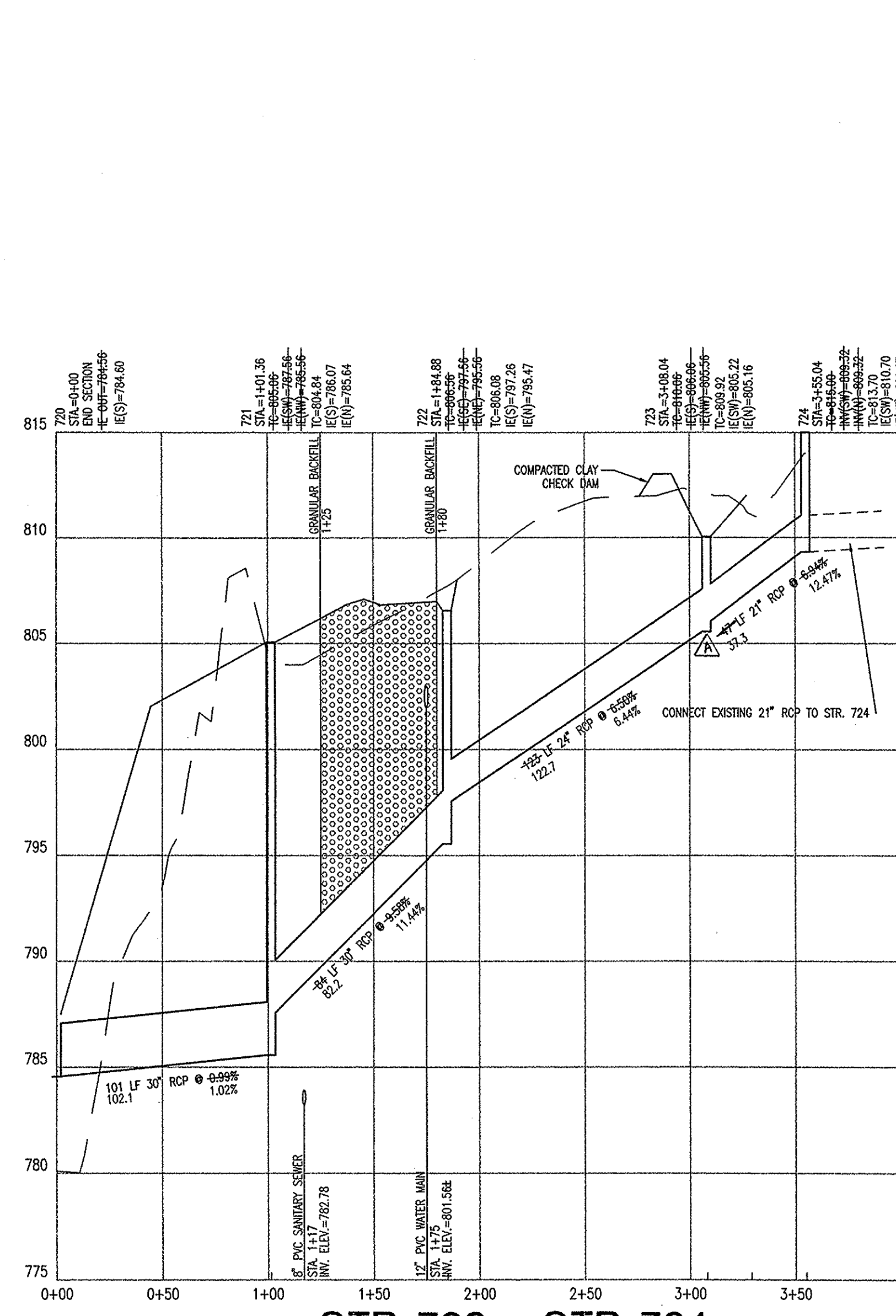
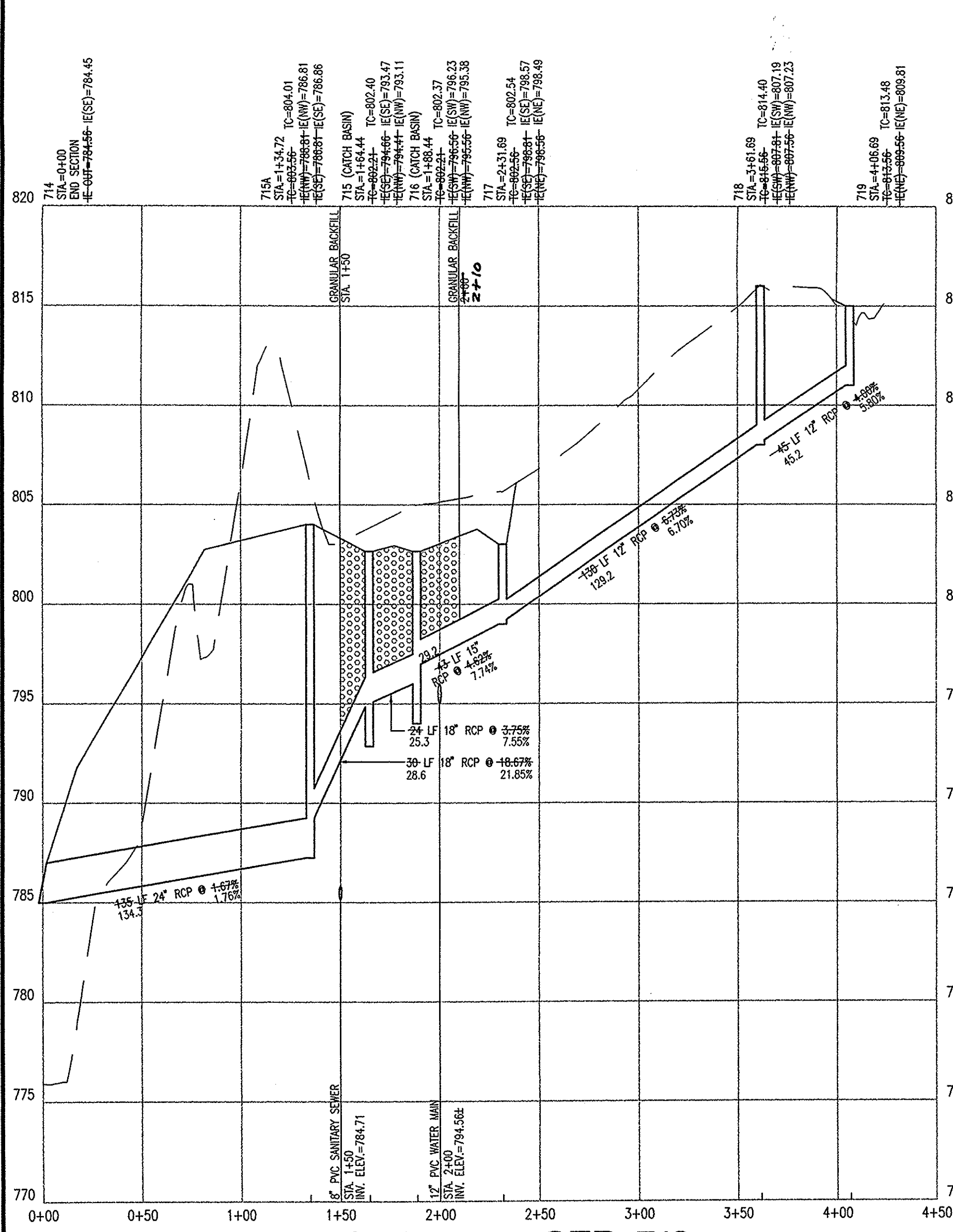
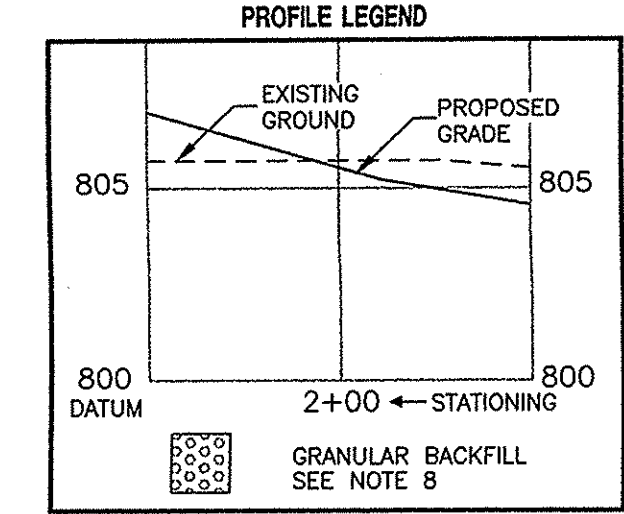
- CLEANOUT
- SANITARY LATERAL
- SANITARY LATERAL STATION, LENGTH, AND PIPE SIZE
- SANITARY LINE
- SANITARY STRUCTURE NUMBER
- SANITARY CASTING ELEVATION
- EASEMENT LINE
- SEWER DRAINAGE & UTILITY EASEMENT

STORM SEWER

- SUB-SURFACE DRAIN LATERAL TO INDIVIDUAL LOT (SEE DETAIL SSD-1 SHEET C705)
- CURB WITH SUBSURFACE DRAIN (SSD)
- CURB INLETS
- STORM SEWER INLETS
- STORM MANHOLE
- END SECTION
- STORM SEWER STRUCTURE NUMBER
- STORM SEWER INVERT ELEVATION
- TOP OF CASTING ELEVATION
- SMALL WITH SUBSURFACE DRAIN (SSD)
- DRAINAGE EASEMENT

WATER

- WATER MAIN
- WATER VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED REDUCER
- PROPOSED 'TEE'
- PROPOSED 45° ELBOW
- PROPOSED 90° ELBOW
- PROPOSED 22° ELBOW
- PROPOSED 11° ELBOW
- THRUST BLOCK
- BLIND FLANGE



- ### STORM SEWER PLAN AND PROFILE NOTES
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS. FINAL RULE 29 CFR PART 1926, SUBPART 'F' APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
 - IN ADDITION, EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
 - ALL STRUCTURES SHALL HAVE CASTINGS, JOINTS, LIFT RINGS, STEPS AND PIPE CONNECTIONS WELL GROUTED, TROWELED SMOOTH AND BRUSH FINISHED.
 - ALL STRUCTURES (IE: MANHOLES, INLETS) SHALL HAVE Poured FLOW LINES AND BENCH MARKS. THE FLOW LINES AND BENCHMARKS SHALL BE TROWELED SMOOTH AND BRUSH FINISHED.
 - FIELD ADJUSTMENTS OF TOP OF CASTING (T.O.C.) OF STRUCTURES MAY BE REQUIRED TO MEET FIELD CONDITIONS. ADJUSTMENTS EXCEEDING FIVE TENTHS (0.5) OF A FOOT MUST BE APPROVED BY THE ENGINEER TO DETERMINE THE INTEGRITY OF THE STRUCTURE. AT NO COST TO THE OWNER.
 - STORM STRUCTURES WITH INLET CASTINGS SHALL BE SET TO MAINTAIN A POSITIVE DRAINAGE FLOW INTO THE STRUCTURE.
 - STORM PIPE INVERTS AT OUTLET STRUCTURES (IE: END SECTIONS), AND PIPE LENGTHS MAY REQUIRE FIELD ADJUSTMENTS TO MEET ACTUAL FIELD CONDITIONS.
 - FULL DEPTH GRANULAR BACKFILL SHALL BE REQUIRED UNDER AND WITHIN (6) FEET OF ALL PAVED AREAS, INCLUDING CURBS, EDGE OF PAVEMENT, AND SIDEWALKS.
 - SEE SHEETS C704 AND C705 FOR STORM SEWERAGE DETAILS.
 - PIPES LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND INCLUDE END SECTIONS.
- NOTE: ALL STREET CROSSINGS SHALL BE BACKFILLED WITH FULL DEPTH GRANULAR MATERIAL COMPACTED MECHANICALLY IN LIFTS.
- NOTE: ALL STORM WATER CASTINGS SHALL CONTAIN A MESSAGE AT THE TOP OF THE CASTING STATING "DUMP NO WASTE - DRAINS TO WATERWAY" OR "DUMP NO WASTE - DRAINS TO FRESH WATER".

RECORD DRAWING

"HOLEY MOLEY" SAYS CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU DIG. IT'S THE LAW.

CAUTION: LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

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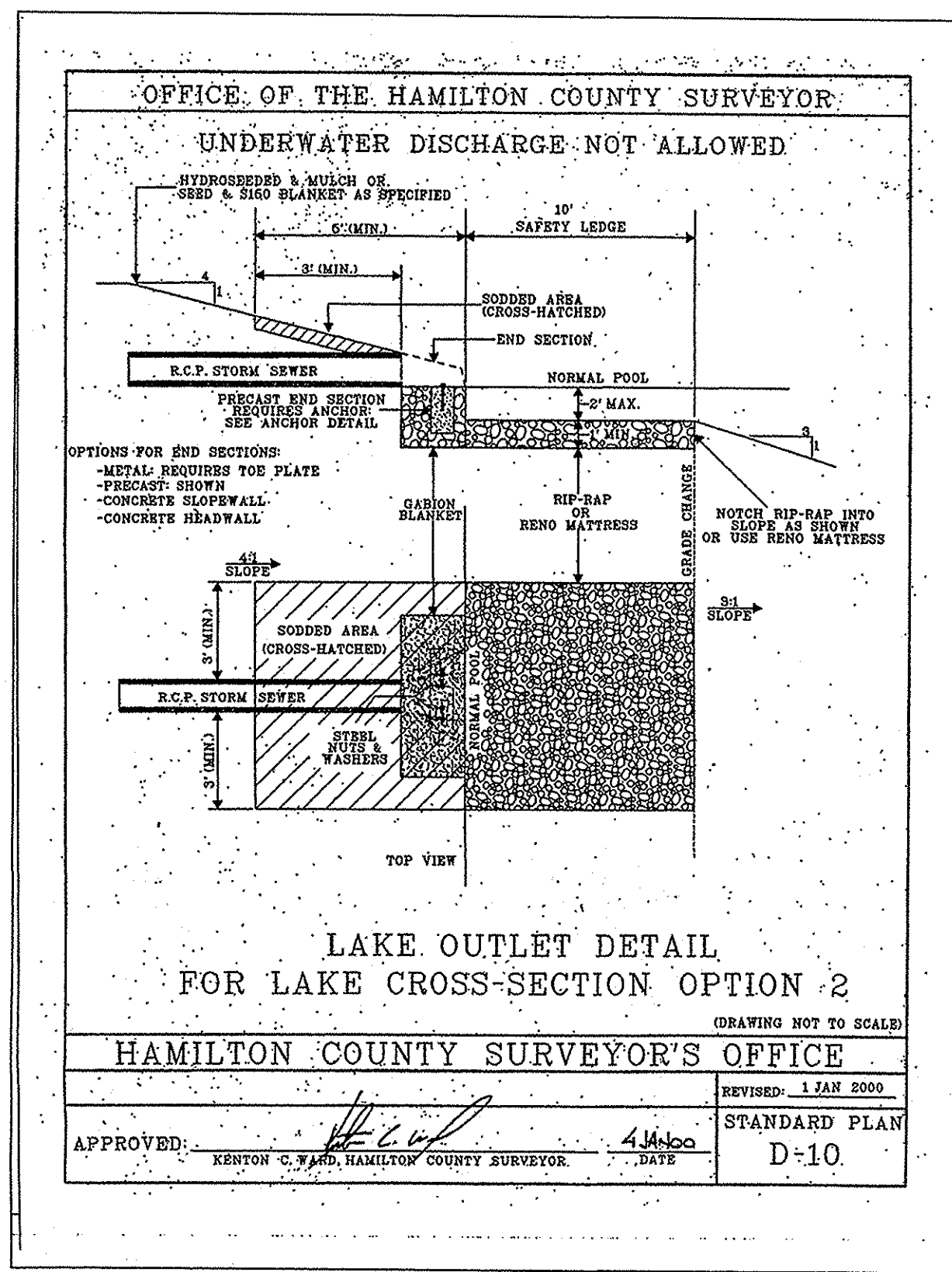
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STORM SEWER PLAN AND PROFILE
THE SPRINGS OF CAMBRIDGE
SECTION 9

MARINA I, LP
11691 FALL CREEK ROAD
INDIANAPOLIS, IN 46331
PH. (317) 845-0270

CERTIFIED BY:
Joseph A. Sharp
REGISTERED PROFESSIONAL ENGINEER
No. 15179
STATE OF INDIANA
7-31-06

Drawn By: CMQ AND AAF
Checked By:
Quality Assurance:
Scale: 1" = 50'
Sheet: **C703**
Date: 7/27/06
Project Number: 0990460-30010



OFFICE OF THE HAMILTON COUNTY SURVEYOR
STRUCTURE SIZING TABLE

PIPE SIZE (INCHES)	STRUCTURES LESS THAN 48" FROM T/C TO INVERT (INCHES)	STRUCTURES GREATER THAN 48" FROM T/C TO INVERT	ANGLE AND QUALITY OF PIPES WILL REQUIRE SPECIAL DESIGN	STEPS REQUIRED	CURB CASTING *R-3501N	CASTING *3501 TL & TR
12 TO 18	24 X 24	***	DESIGN APPROVAL	NO	YES	YES
18 TO 21	30 X 30	***	DESIGN APPROVAL	NO	YES	YES
18 TO 21	MH/BOX	***	DESIGN APPROVAL	YES	YES	YES
21 TO 27	24 X 36 OR 30 X 36	***	DESIGN APPROVAL	NO	NO	YES
18 TO 24	30 X 30	***	DESIGN APPROVAL	NO	YES	YES
24 OR LARGER	DESIGN APPROVAL	***	DESIGN APPROVAL	NO	NO	YES
24 OR LARGER	MH/BOX	***	DESIGN APPROVAL	YES**	YES	YES

* PIPES NO LARGER THAN 18" CAN BE USED IN THE 2' SIDE OF THIS BOX.
** INCOMING AND OUT GOING PIPES EFFECT STEPS IN THIS STRUCTURE.
*** SPECIAL NOTE: STRUCTURES DEEPER THAN 48" FROM T/C TO INVERT WILL BE A M.H. OR A BOX WITH STEPS UNLESS SPECIAL DESIGN IS APPROVED.
SPECIAL NOTE: STRUCTURES WILL BE DESIGNED FOR MAXIMUM FLOW IN PIPES.
SPECIAL NOTE: COUNTY MAY REQUIRE STEPS TO BE INSTALLED AFTER STRUCTURE IS SET, TO IMPROVE ACCESS.

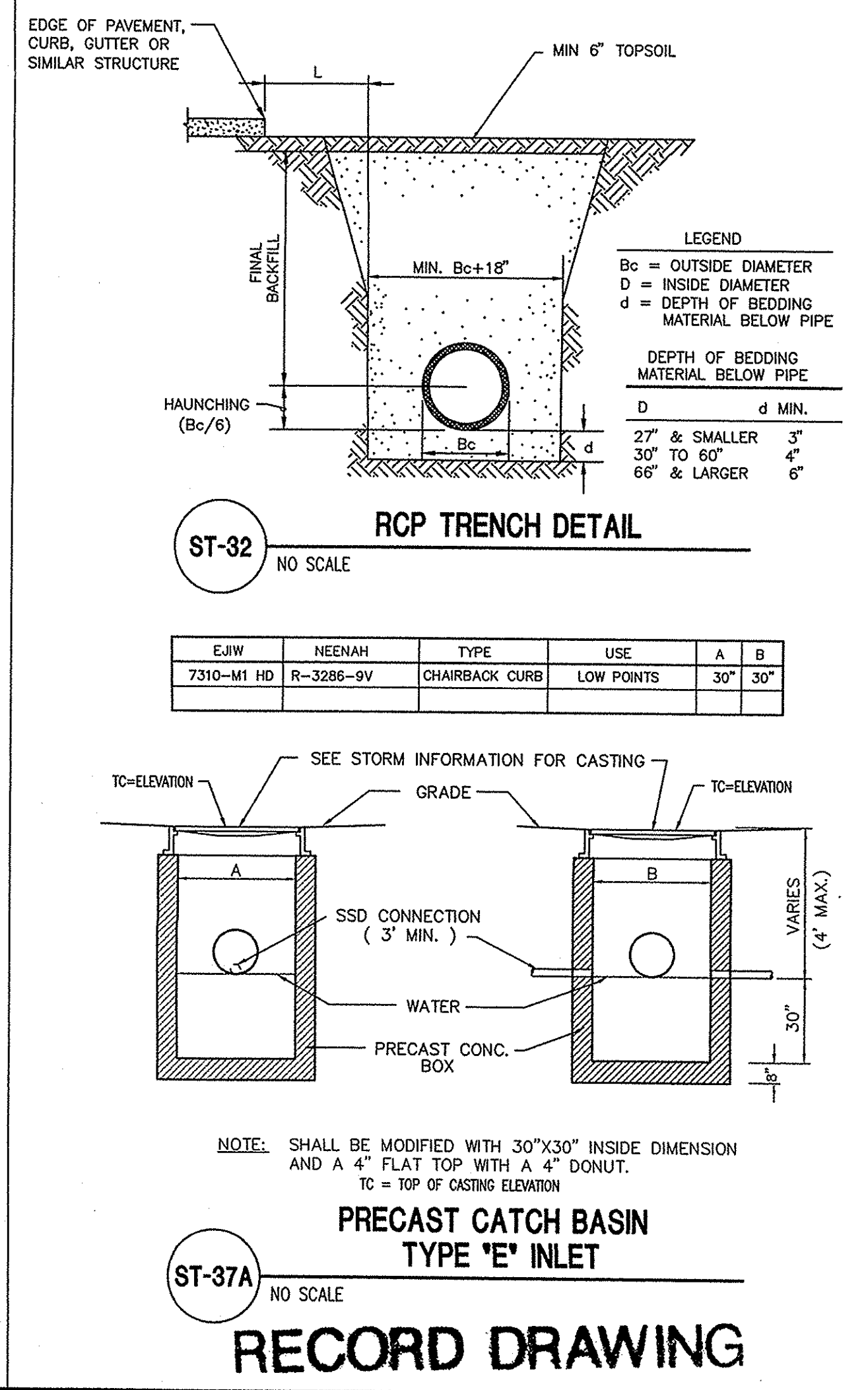
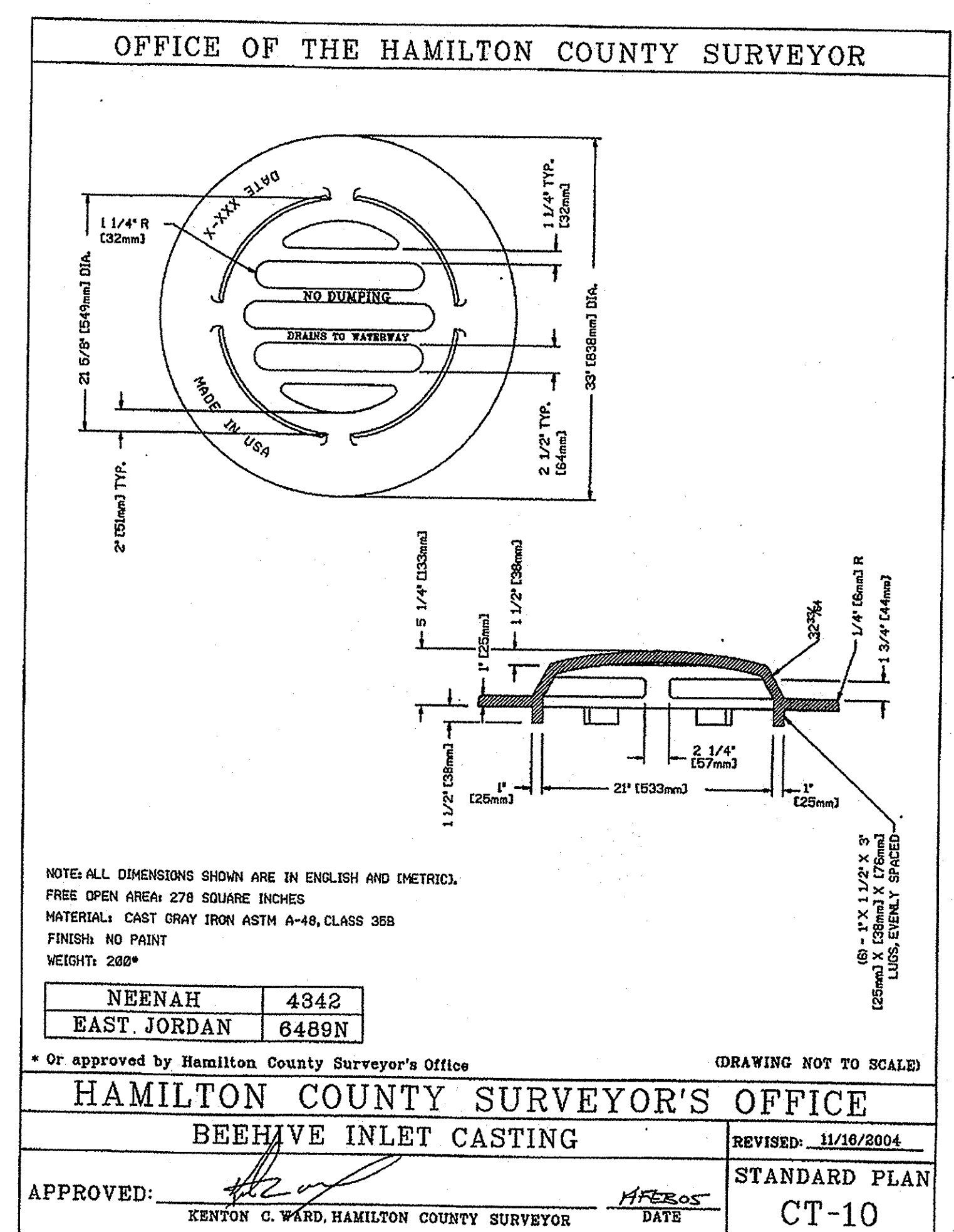
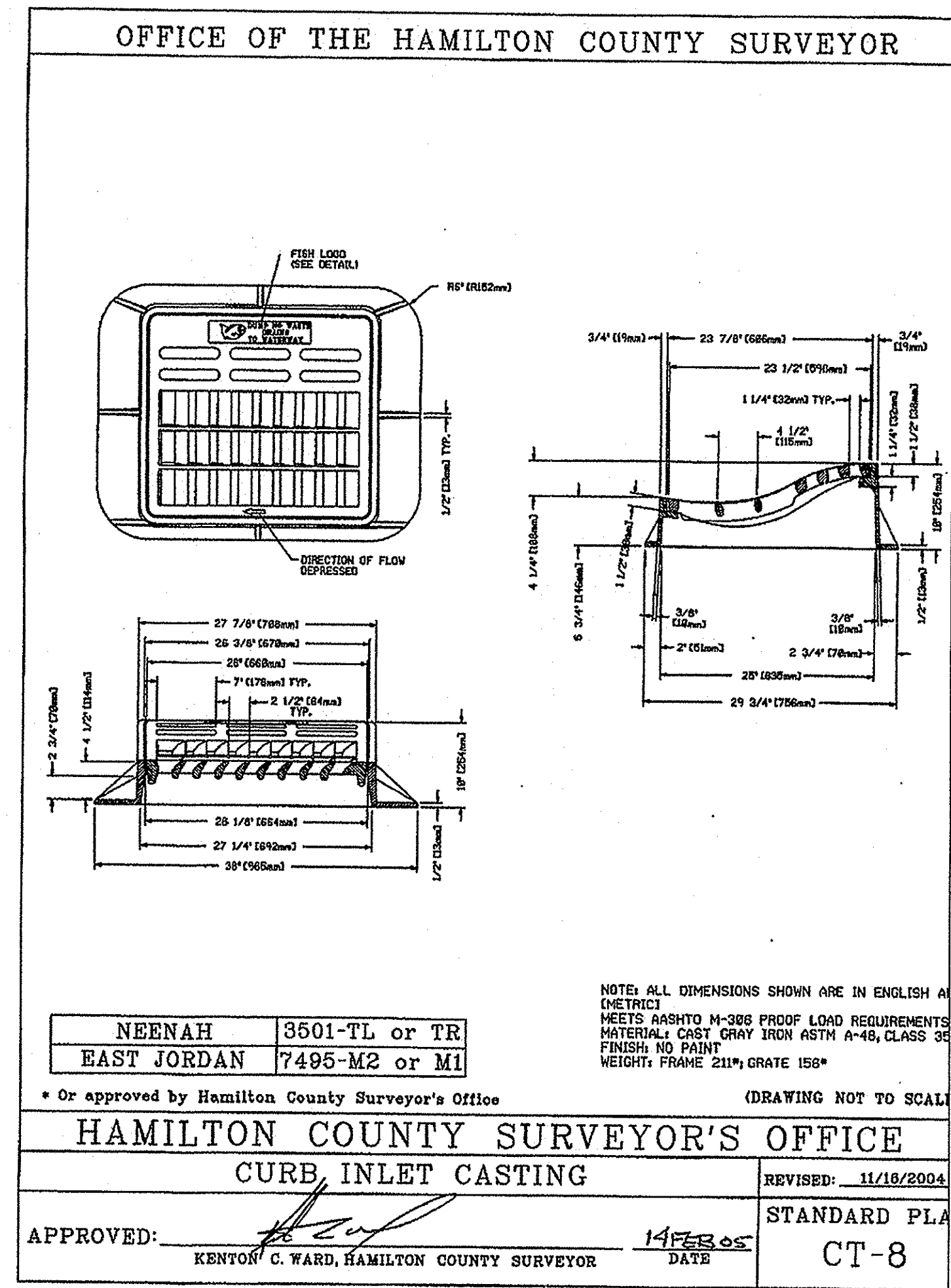
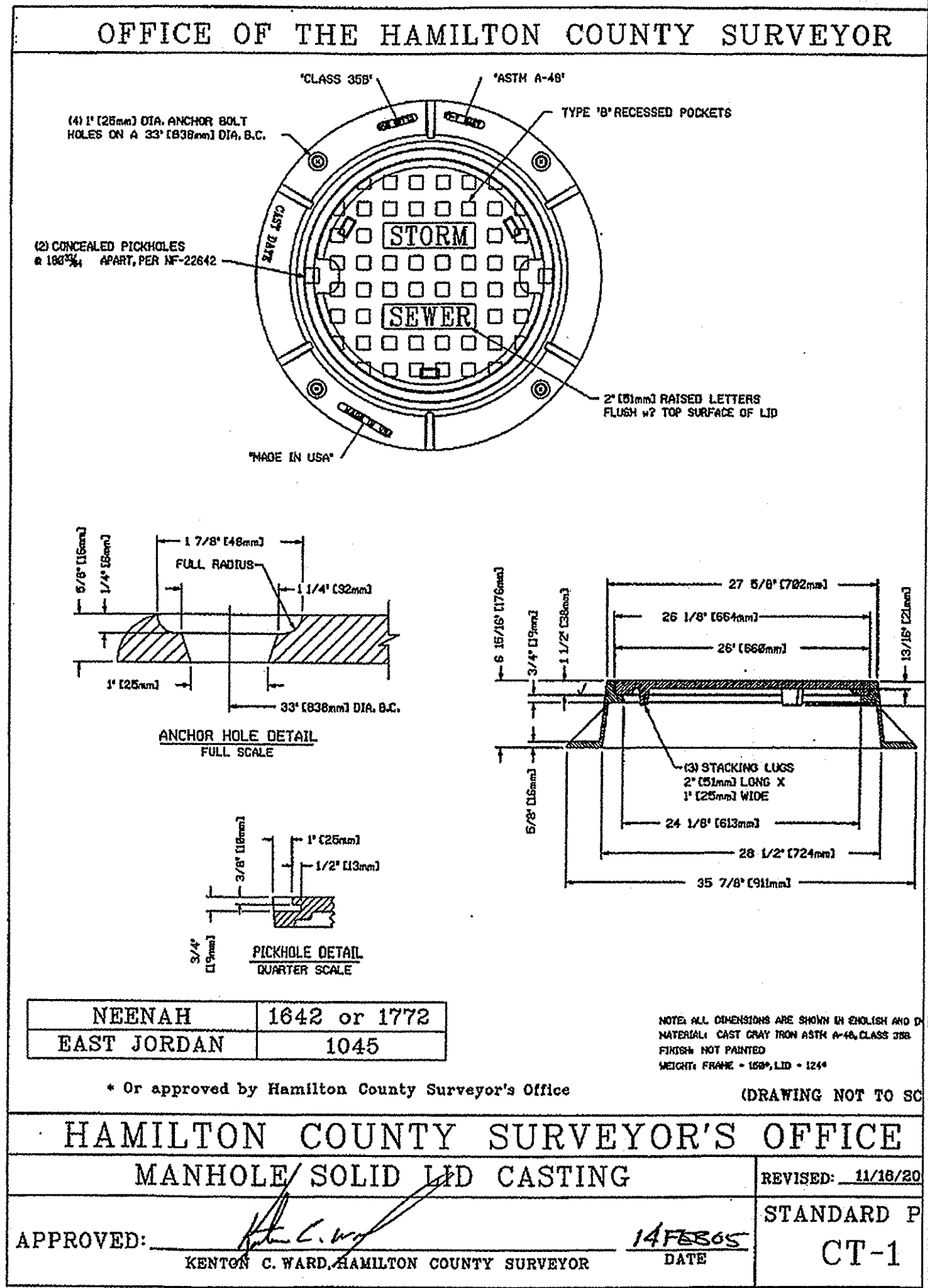
HAMILTON COUNTY SURVEYOR'S OFFICE
REVISOR: 1 FEB 2002
STANDARD PLAN
APPROVED: KENTON C. WARD, HAMILTON COUNTY SURVEYOR DATE: 2/1/02
D-18

OFFICE OF THE HAMILTON COUNTY SURVEYOR
STRUCTURE DATA TABLE

STR. NO.	TC/RIM ELEV.	INV. IN	INV. OUT	DEPTH *	STR. SIZE	STR. TYPE	CASTING TYPE	PIPE SIZE	DIRECTION OF PIPE IN/OUT
701	796.46	792.99	792.99	0.52	48"	D-21	R-4342	36"	NE/SW
702A	800.54	795.24	795.24	2.00	60"	D-21	R-4342	36"	NE/SW
702B	811.00	797.80	795.60	2.00	60"	D-21	R-4342	36"	SE/SW
703	814.50	814.50	814.50	0.00	24"	ST-3A	END SECTION	24"	SE OUT
704	815.35	815.35	815.35	0.00	24"x36"	D-20	R-4342	18"	SW/NW
704A	816.05	816.05	816.05	0.00	48"	D-20	R-1772	15"	E/N
705	815.20	818.20	818.20	3.00	24"x36"	CB*	R-3501-N	15'x18"	SE/NE
706	795.20	795.20	795.20	0.00	24"x36"	CB*	R-3501-N	15"	NW OUT
707	794.40	794.40	794.40	0.00	24"	ST-3A	END SECTION	24"	SE OUT
708A	816.06	798.06	798.06	18.00	48"	D-21	R-4342	24"	SE/NW
708	816.06	792.06	792.06	24.00	48"	D-21	R-3501-R	24"	SE/NW
709	816.06	810.06	792.06	24.00	48"	D-21	R-3501-L	24"	SW/NW
710	816.06	810.06	810.06	0.00	48"	D-21	R-4342	24"	SW/NE
711	815.56	812.56	812.56	10.00	48"	D-21	R-4342	12'x24"	SW/NE
712	811.06	811.06	811.06	0.00	24"x36"	CB*	R-3501-R	12'	SW/NE
713	811.06	811.06	811.06	0.00	24"x36"	CB*	R-3501-L	12'	NE OUT
714	798.55	798.55	798.55	0.00	24"	ST-3A	END SECTION	24"	NW OUT
715A	800.56	798.01	798.01	1.88	48"	D-21	R-4342	18'x24"	SE/NW
715	800.21	798.06	798.06	1.88	48"	D-21	R-3501-N	18"	SE/NW
716	800.21	798.06	798.06	1.88	24"x36"	CB*	R-3501-N	15'x18"	SW/NW
717	800.56	798.01	798.01	1.88	24"x36"	CB*	R-4342	12'x15"	SE/NE
718	811.56	808.01	808.01	3.55	24"x36"	ST-36	R-4342	12'	SW/NW
719	811.56	808.01	808.01	3.55	24"x36"	ST-36	R-4342	12'	NE OUT
720	811.56	808.01	808.01	3.55	30"	ST-3A	END SECTION	30"	SE OUT
721	811.06	798.55	798.55	11.59	48"	D-21	R-4342	30"	SW/NW
722	811.06	798.55	798.55	11.59	48"	D-21	R-4342	24'x30"	SE/NE
723	811.06	811.06	811.06	0.00	48"	D-21	R-4342	21"	SW/NE
724	815.40	815.40	815.40	0.00	48"	D-20	R-1772	21"	SE/N
725	814.60	814.60	814.60	0.00	18"	ST-3A	END SECTION	18"	E OUT
726A	815.06	798.01	798.01	16.99	24"x36"	ST-36	R-4342	18"	E/N
726	815.06	797.01	797.01	18.00	24"x36"	CB*	R-3501-N	15'x18"	E/N
727	813.41	797.46	797.46	5.95	24"x36"	CB*	R-3501-N	12'x15"	E/N
728	816.06	811.51	811.51	4.55	24"x36"	ST-36	R-4342	12'	W OUT
729A	814.00	809.00	809.00	5.00	48"	ST-36	R-4342	18"	SE/SW
729	814.00	809.00	809.00	5.00	48"	ST-36	R-4342	18"	SW/NE
729B	821.00	811.00	811.00	10.00	48"	D-20	R-1772	18"	NW OUT
730	814.50	814.50	814.50	0.00	15"	ST-3A	END SECTION	15"	NW OUT
731	814.50	814.50	814.50	0.00	24"x36"	ST-36	R-4342	15"	SE/NW
732	814.50	814.50	814.50	0.00	24"x36"	CB*	R-3501-R	15"	SE/NW
733	814.50	814.50	814.50	0.00	24"x36"	CB*	R-3501-L	15"	NW OUT

* DEPTH = TC - (INV + DIA + THICKNESS) CB = CATCH BASIN WITH 2' SUMP
NOTE: TABLE TO BE LOCATED ON DEVELOPMENT PLAN

HAMILTON COUNTY SURVEYOR'S OFFICE
REVISOR: 1 FEB 2002
STANDARD PLAN
APPROVED: KENTON C. WARD, HAMILTON COUNTY SURVEYOR DATE: 2/1/02
D-19



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STORM SEWER PLAN AND PROFILE DETAILS THE SPRINGS OF CAMBRIDGE SECTION 9

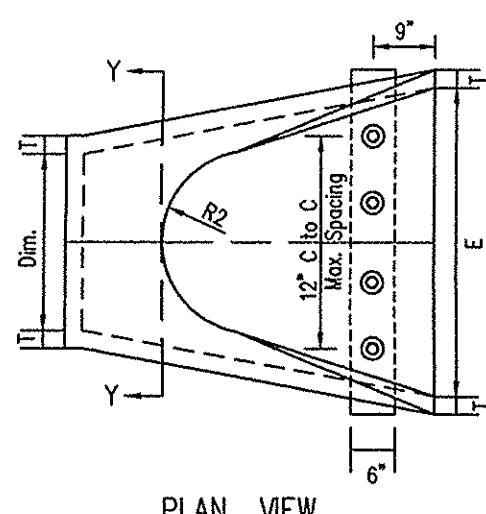
MARINA I, LP 11691 FALL CREEK ROAD INDIANAPOLIS, IN 46331 PH. (317) 843-0270

CERTIFIED BY: JOSEPH A. SHARP REGISTERED PROFESSIONAL ENGINEER No. 15179 STATE OF INDIANA 7-31-06

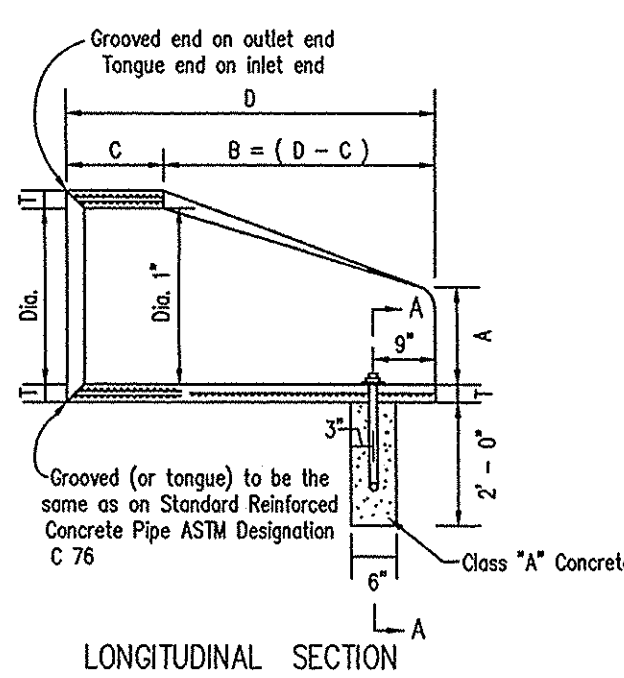
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Sheet: C704 Date: 7/27/06 Project Number: 0990460-30010

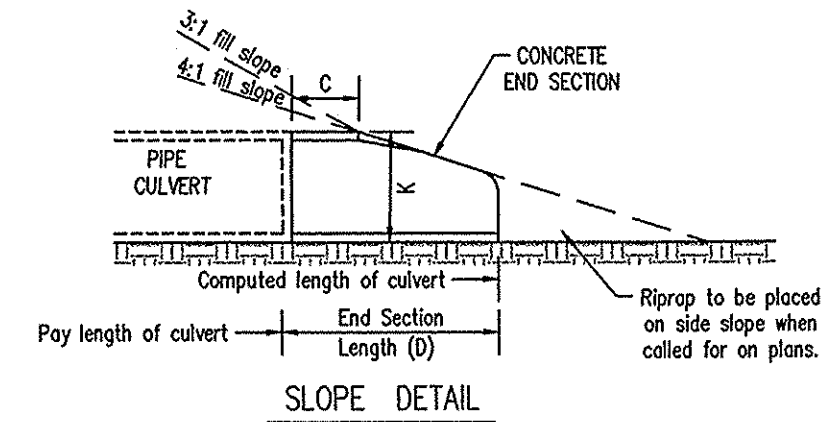


PLAN VIEW

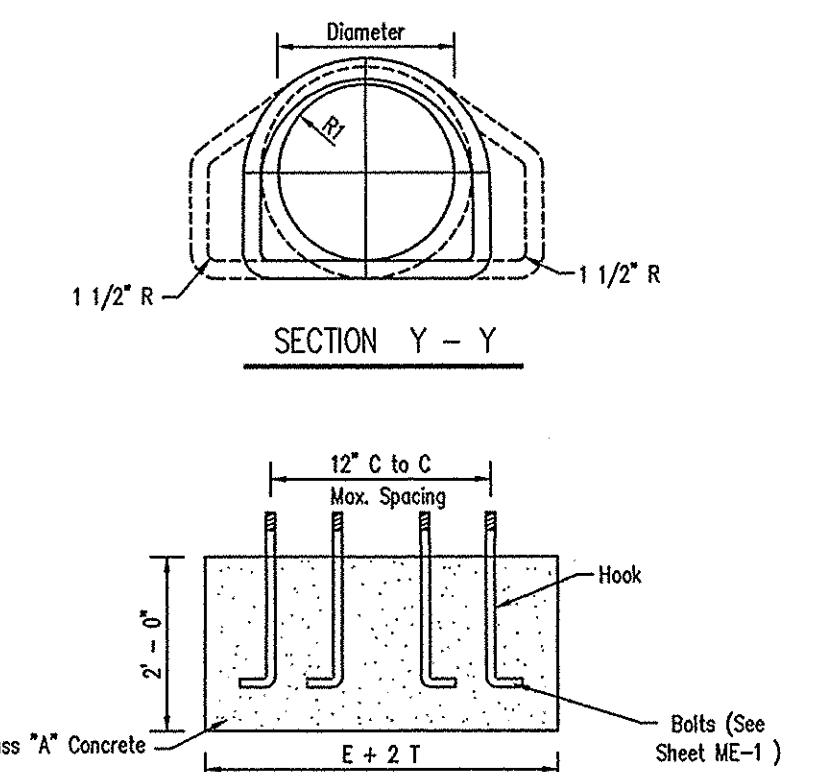


LONGITUDINAL SECTION

- CONCRETE IN THESE END SECTIONS SHALL BE THE SAME GRADE AND STRENGTH AS SPECIFIED FOR REINFORCED CONCRETE PIPE, ASTM DESIGNATION C 76 CLASS II. (as set out in the Standard Spec's.)
- REINFORCEMENT IN THE "C" PORTION SHALL BE THE SAME AS SPECIFIED FOR REINFORCED CONCRETE, ASTM DESIGNATION C 76, CLASS I FOR THE SIZE OF CONNECTING PIPE.
- REINFORCEMENT IN THE "B" PORTION SHALL HAVE A CROSS-SECTIONAL AREA EQUAL TO THAT OF ONE LAYER OF STEEL IN THE "C" SECTION.
- THE END OF PIPE CULVERT SHALL BE PLACED IN THE CONCRETE END SECTION SO THAT THE FLOW LINES ARE FLUSH, THE JOINT SHALL BE COMPLETELY FILLED WITH MORTAR.
- IN 3:1 OR 4:1 FILL SLOPE, CHANGE TO THE SLOPE OF THE END SECTION IN A SMOOTH, BLENDING TRANSITION APPROXIMATELY 10'-0" IN LENGTH.
- VARIATIONS IN DIMENSIONS - THE THICKNESS OF THE CONCRETE, THE POSITION OF STEEL, AND THE INTERNAL DIAMETER OF THE PIPE SHALL CONFORM WITH THE VARIATIONS IN DIMENSIONS AS PROVIDED IN THE SPECIFICATIONS FOR REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, ASTM DESIGNATION C 76.
- WHERE VITRIFIED CLAY CULVERT OR CAST IRON CULVERT PIPE IS USED, A "A" PIPE END SECTION COMPATIBLE TO THAT IS SHOWN FOR METAL OR CONCRETE SHALL BE FURNISHED AND SHALL BE AS APPROVED BY THE PROJECT ENGINEER.
- END SECTIONS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "A" PIPE END SECTION COMPLETE IN PLACE AND ACCEPTED.
- CONCRETE PIPE TOE ANCHORS SHALL BE REQUIRED ON ALL CONCRETE PIPE SECTIONS. THE COST THEREOF SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR "A" PIPE END SECTIONS.
- DEBRIS GUARDS TO BE INSTALLED ON ALL OPEN ENDED INLETS AND AT ALL POND OUTFALL PIPES.



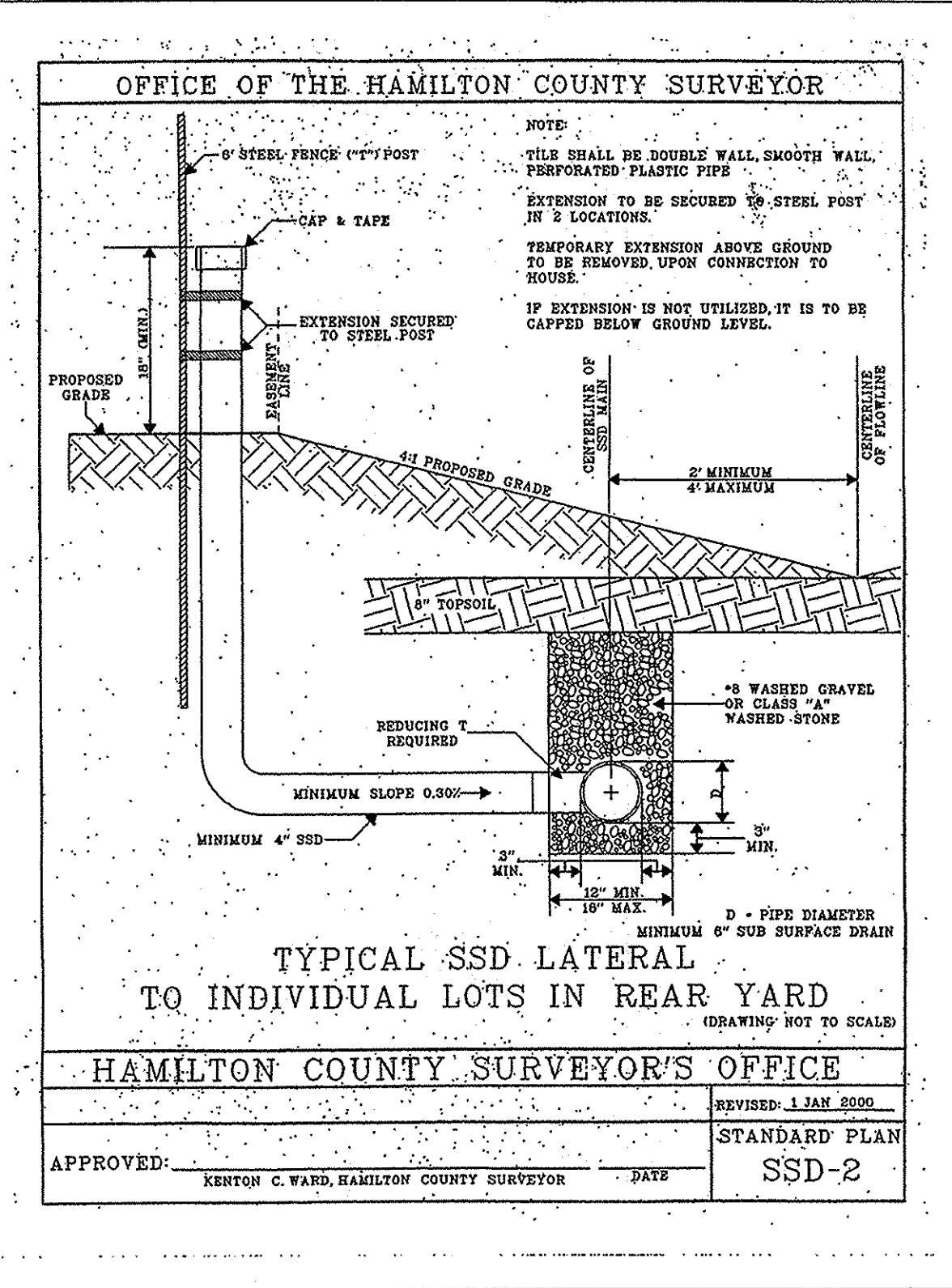
SLOPE DETAIL



SECTION A - A

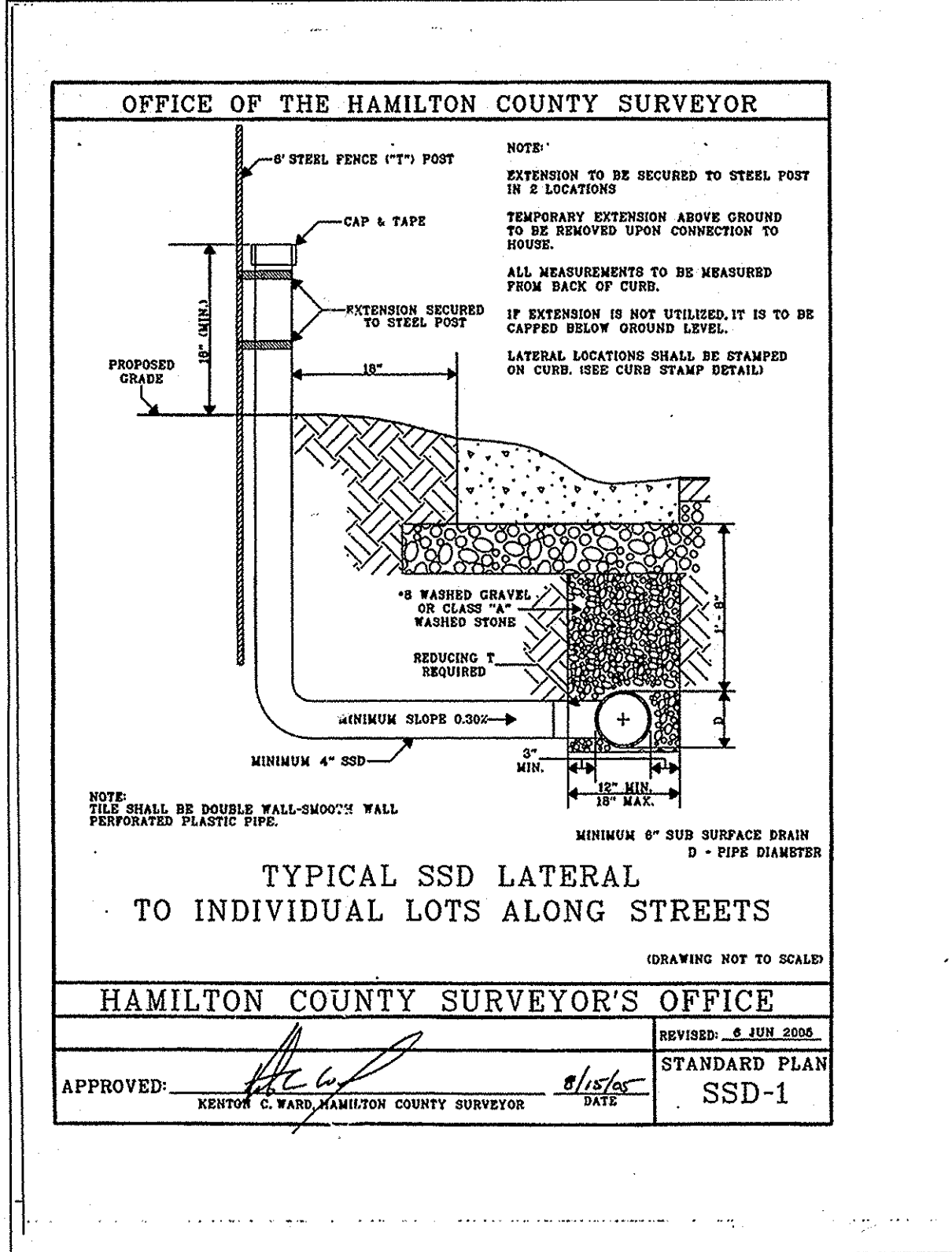
DIA.	T (min.)	A x	C x	D x	E x	K	R1	R2	Approx. Weight
12"	2"	5"	4'-3"	6'-2"	2'-0"	1.3	10 1/8"	9"	800
15"	2 1/4"	7"	4'-0"	6'-3"	2'-6"	1.5	12 1/2"	11"	1100
18"	2 1/2"	11"	4'-1"	6'-2"	3'-0"	1.8	15 1/2"	12"	1300
21"	2 3/4"	11"	3'-6"	6'-3"	3'-6"	2.1	16 1/8"	13"	1500
24"	3"	1'-0"	2'-8"	6'-3"	4'-0"	2.3	18 3/16"	14"	1800
27"	3 1/4"	1'-1"	2'-5"	6'-3"	4'-6"	2.6	19 9/16"	14 1/2"	2100
30"	3 1/2"	1'-2"	1'-10"	6'-3"	5'-0"	2.9	19 1/2"	15"	2400
33"	3 3/4"	1'-3"	3'-6"	6'-3"	5'-6"	3.1	21 3/4"	17 1/2"	4100
36"	4"	1'-5"	3'-1"	6'-3"	6'-0"	3.4	24 5/16"	20"	4200
42"	4 1/2"	1'-7"	2'-9"	6'-3"	6'-6"	3.9	27 1/4"	22"	5400
48"	5"	2'-0"	2'-2"	6'-3"	7'-0"	4.4	28 1/8"	22"	6600
54"	5 1/2"	2'-3"	2'-9"	6'-5"	7'-6"	4.9	32 7/8"	24"	8000
60"	6"	2'-5"	3'-3"	6'-5"	8'-0"	5.4	36 3/4"	24"	8800

ST-3A PRECAST CONCRETE END SECTION NO SCALE



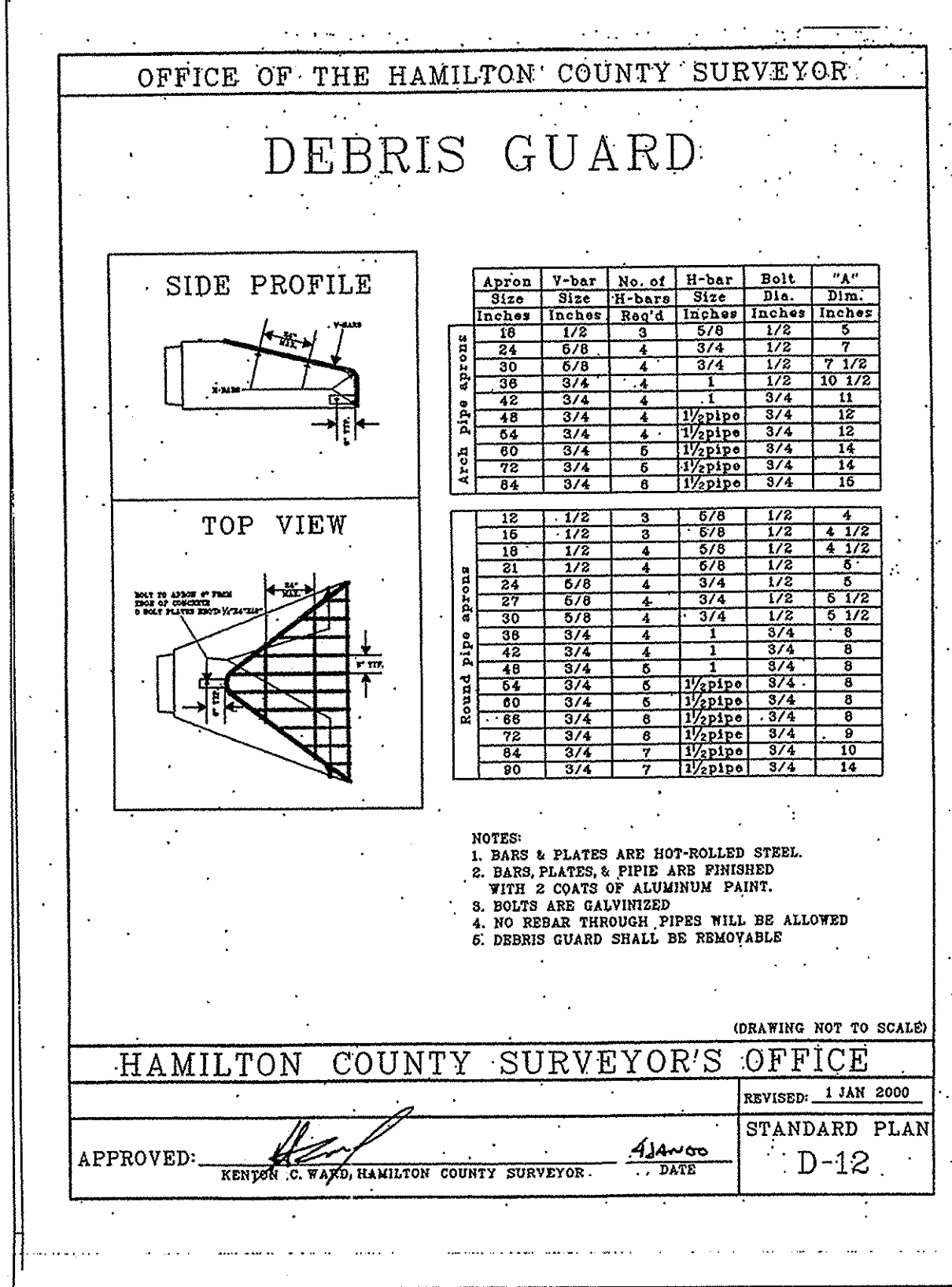
TYPICAL SSD LATERAL TO INDIVIDUAL LOTS IN REAR YARD

HAMILTON COUNTY SURVEYOR'S OFFICE
 APPROVED: KENTON C. WARD, HAMILTON COUNTY SURVEYOR
 STANDARD PLAN SSD-2
 REVISED: 1 JAN 2000



TYPICAL SSD LATERAL TO INDIVIDUAL LOTS ALONG STREETS

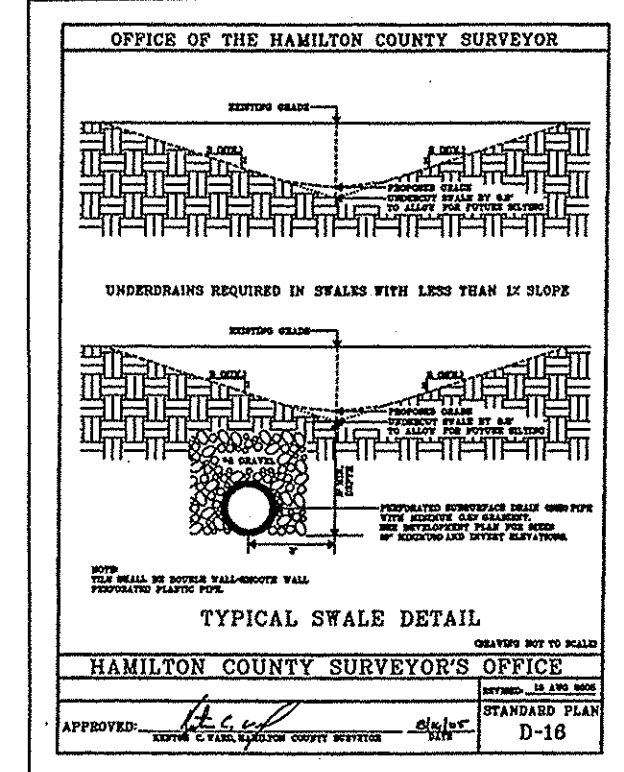
HAMILTON COUNTY SURVEYOR'S OFFICE
 APPROVED: KENTON C. WARD, HAMILTON COUNTY SURVEYOR
 STANDARD PLAN SSD-1
 REVISED: 6 JUN 2005



DEBRIS GUARD

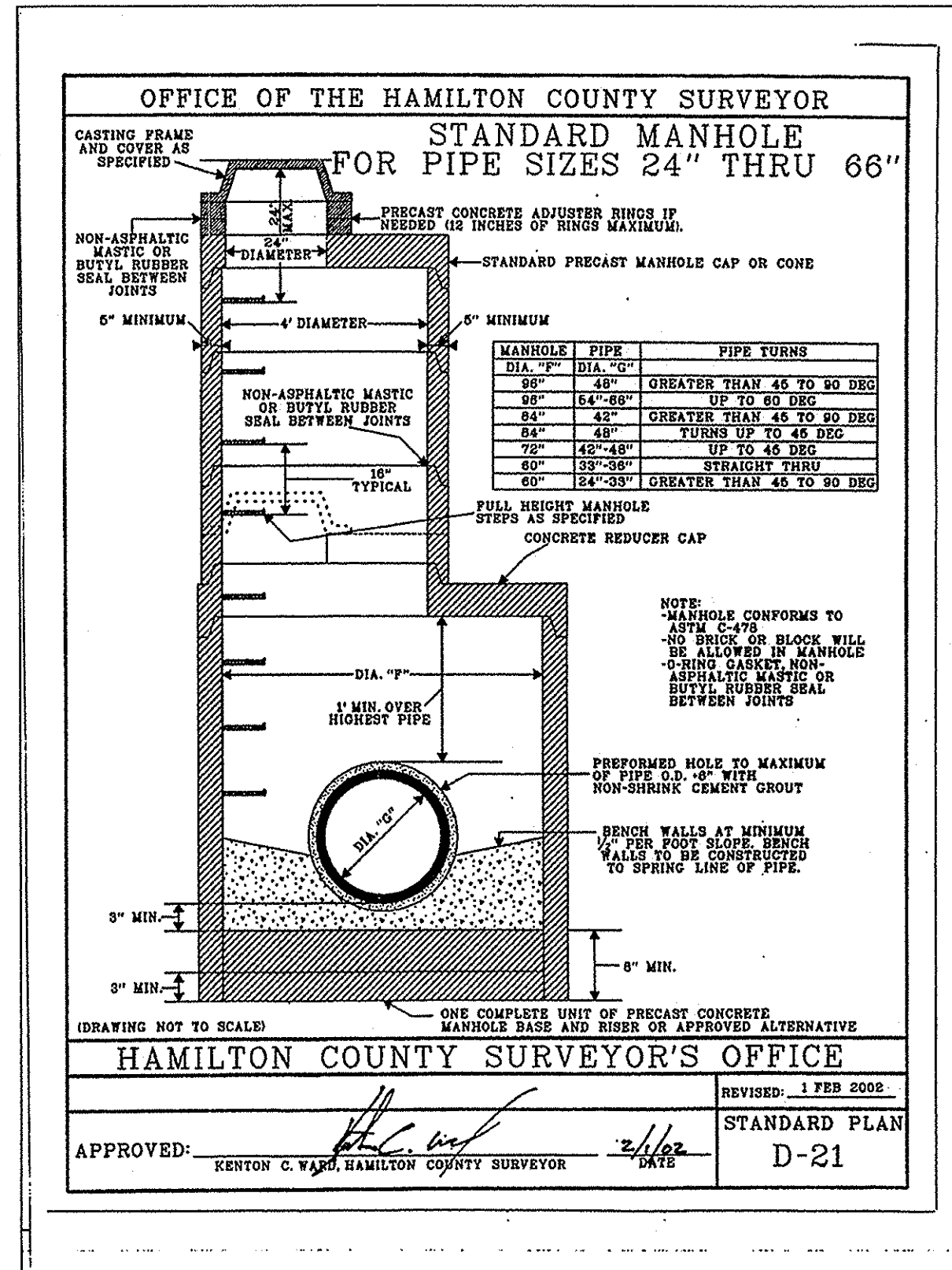
Approx. Size	V-bar Size	No. of V-bars	Bolt Size	"A" Dia.
18	1/2"	3	5/8"	1 1/2"
18	1/2"	3	5/8"	1 1/2"
24	3/4"	4	3/4"	1 1/2"
30	3/4"	4	3/4"	1 1/2"
36	3/4"	4	3/4"	1 1/2"
42	3/4"	4	3/4"	1 1/2"
48	3/4"	4	3/4"	1 1/2"
54	3/4"	4	3/4"	1 1/2"
60	3/4"	4	3/4"	1 1/2"
66	3/4"	4	3/4"	1 1/2"
72	3/4"	4	3/4"	1 1/2"
78	3/4"	4	3/4"	1 1/2"
84	3/4"	4	3/4"	1 1/2"

HAMILTON COUNTY SURVEYOR'S OFFICE
 APPROVED: KENTON C. WARD, HAMILTON COUNTY SURVEYOR
 STANDARD PLAN D-12
 REVISED: 1 JAN 2000



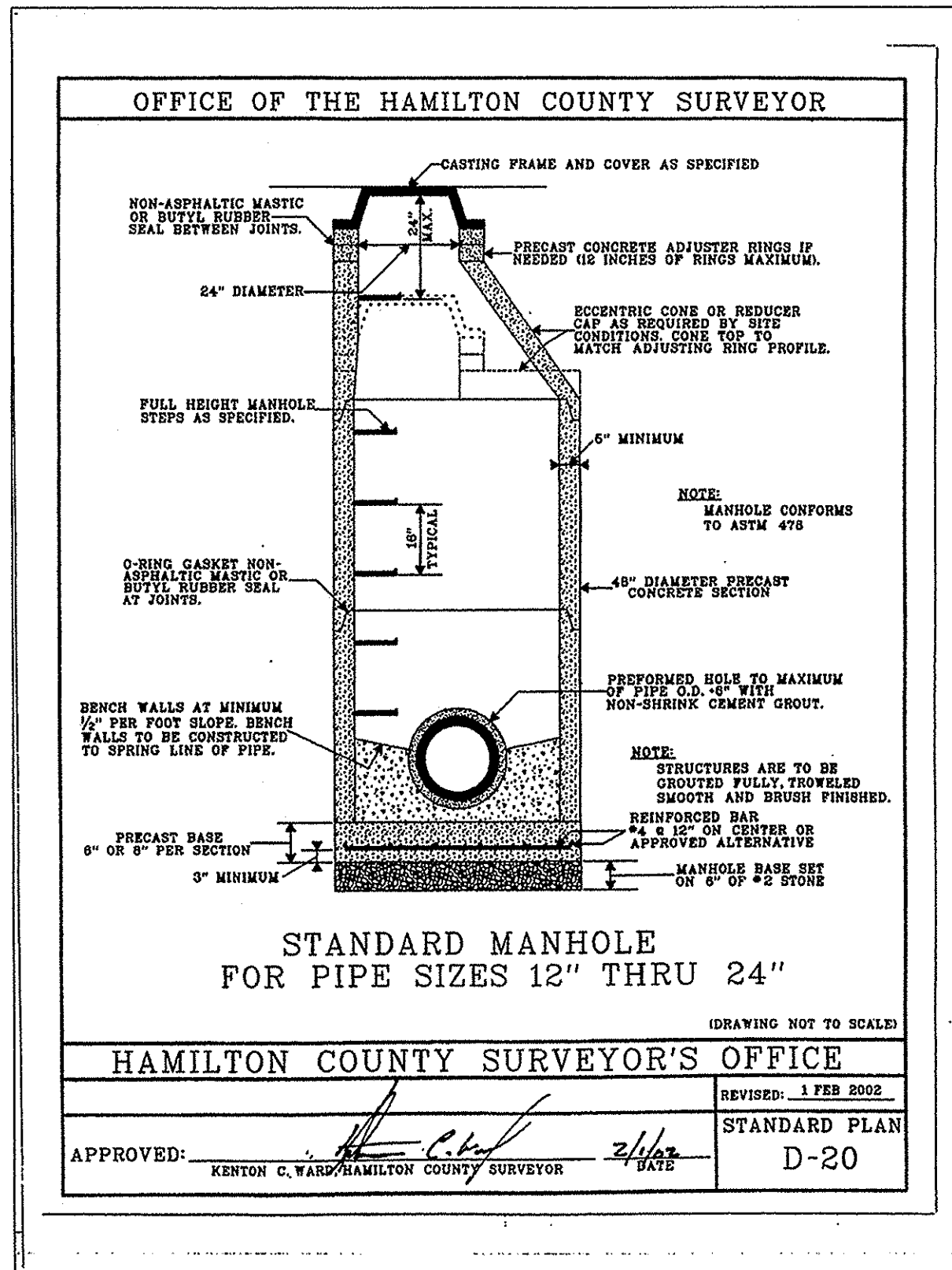
TYPICAL SWALE DETAIL

HAMILTON COUNTY SURVEYOR'S OFFICE
 APPROVED: KENTON C. WARD, HAMILTON COUNTY SURVEYOR
 STANDARD PLAN D-18
 REVISED: 1 FEB 2000



STANDARD MANHOLE FOR PIPE SIZES 24" THRU 66"

HAMILTON COUNTY SURVEYOR'S OFFICE
 APPROVED: KENTON C. WARD, HAMILTON COUNTY SURVEYOR
 STANDARD PLAN D-21
 REVISED: 1 FEB 2000



STANDARD MANHOLE FOR PIPE SIZES 12" THRU 24"

HAMILTON COUNTY SURVEYOR'S OFFICE
 APPROVED: KENTON C. WARD, HAMILTON COUNTY SURVEYOR
 STANDARD PLAN D-20
 REVISED: 1 FEB 2000

ARCHITECTURE LANDSCAPE ARCHITECTURE LAND PLANNING TRANSPORTATION ENGINEERS GIS

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CRPE

STORM SEWER PLAN AND PROFILE DETAILS THE SPRINGS OF CAMBRIDGE SECTION 9

MARINA I, LP 11691 FALL CREEK ROAD INDIANAPOLIS, IN 46331 PH. (317) 845-0270

CERTIFIED BY: JOSEPH A. STAP No. 15179 STATE OF INDIANA PROFESSIONAL CIVIL ENGINEER

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Checked By:

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