

TWIN CHIMNEYS

THE CEDAR VILLAGE

VILLAGE H
IMPROVEMENT PLANS

PREPARED FOR:

J.L. MASON OF MISSOURI, INC.

1819 CLARKSON ROAD
Suite 200
CHESTERFIELD, MISSOURI 63017
(314)-532-1100

CIVIL ENGINEER:

BAX ENGINEERING CO., INC.

221 Point West Blvd.
St. Charles, MO. 63301
946-6588 724-3330

APPROVED
60A-604
10/21/88

GEORGE BUTLER ASSOCIATES, INC.
SUITE 200 1925 SOUTH W. 141 ST.
O'FAHOLAN, MISSOURI 63356
RECEIVED OCT 21 1988

City Copy

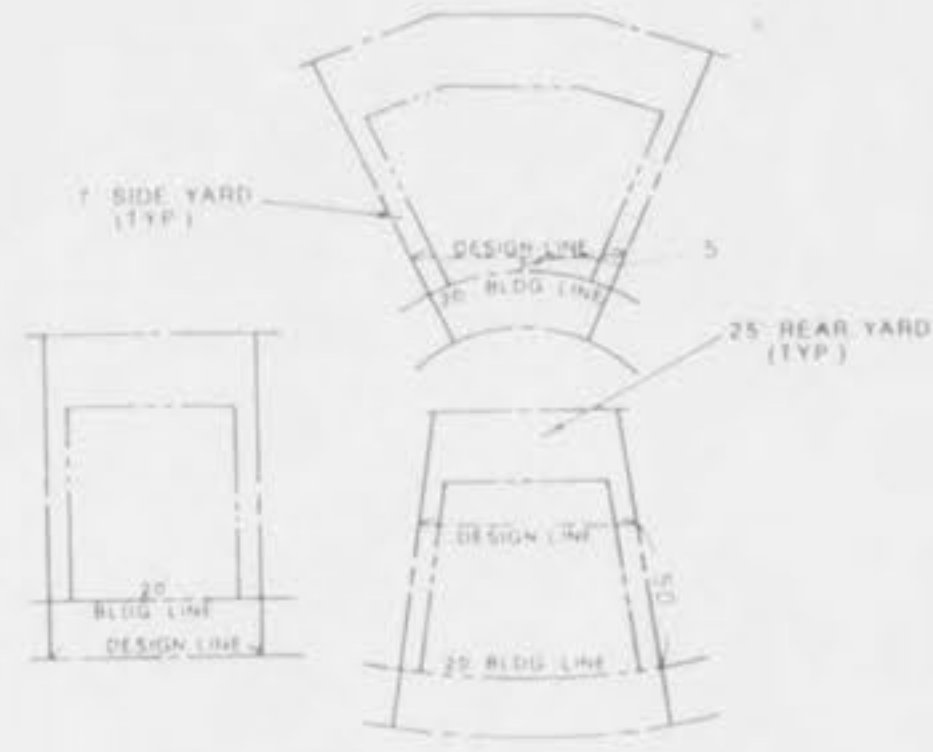


County Site
M.S.D.
Ordinance
Wunnenberg Map

BAX 88-2906

GENERAL NOTES

- Gas, water and other underground utilities shall not conflict with the depth or horizontal location of existing and proposed sanitary and storm sewers including house laterals.
- The existing underground utilities shown herein were plotted from available information and do not necessarily reflect the actual existence, nonexistence, size, type, number, or location of these or other utilities. The general contractor shall be responsible for verifying the actual location of all underground utilities, shown or not shown, and shall be located in the field prior to any grading, excavation, or construction of improvements. These provisions shall in no way absolve any party from complying with the Underground Facility Safety and Damage Prevention Act, Chapter 319, RSMo.
- All filled places in public right-of-way (State, County or City roads) shall be compacted to 90% of maximum density as determined by the "Standard Proctor Test A.A.S.H.T.O. T-99", Method C (A.S.T.M. D-698) unless otherwise specified by local governing authority specifications, or by soils report for this project. All test shall be verified by the inspecting soils engineer.
- All filled places under buildings, proposed storm and sanitary sewer lines and/or paved areas including trench backfills shall be compacted to 90% of maximum density as determined by the "Modified A.A.S.H.T.O. T-180 Compaction Test" (A.S.T.M. D-1557) unless otherwise specified by local governing authority specifications, or by soils report for this project. All tests shall be verified by the inspecting soils engineer.
- All trench backfills under paved areas shall be granular backfill, and shall be compacted to 90% of maximum density as determined by the "Modified A.A.S.H.T.O. T-180 compaction test," (A.S.T.M. D-1557). All trench backfills may be earth material free of large clods or stones and will be water jetted.
- No area shall be cleared without permission of the developer.
- All grades shall be within 0.2 feet more or less of those shown on the grading plan.
- No slope shall be greater than 3:1 and shall be either sodded or seeded and mulched.
- Siltation control devices shall be as shown on plans, and approved by the local governing authority. Additional siltation control, if required, will be placed at the direction of the soils engineer on site and the local governing authority prior to placement.
- Grading operations on this project shall comply with the soils report by Geotechnology, Inc. dated July 31, 1987.
- All grading on Missouri State Highway right-of-way shall be seeded and mulched and all disturbed right-of-way markers shall be reset at the completion of grading.
- Polyvinyl chloride (PVC) sanitary sewer pipe shall meet the following requirements: A.S.T.M. D-3034 SDR-35, with wall thickness compression joint A.S.T.M. D-3212. An appropriate waterstop as approved by the sewer district shall be installed between PVC pipe and masonry (concrete and brick) structure.
- The minimum vertical distance from the low point of the basement or slab floor to the flowline of a sanitary sewer at the corresponding house or building connection shall not be less than the diameter of the main line sanitary sewer plus a vertical distance not less than two and one half feet (2-1/2').
- All P.V.C. sanitary sewer pipe to have crushed stone bedding uniformly graded between 1" and 1/4" size. This bedding shall extend from 6" below the pipe to 7/10 of the pipe diameter above the bottom of the pipe.
- All sanitary sewer service shall be a minimum of 4" diameter for single-family developments.
- Storm sewers 18" diameter or smaller shall be A.S.T.M. C-14, unless otherwise shown on plans.
- Storm sewers 21" diameter or larger shall be A.S.T.M. C-76, Class II, unless otherwise shown on plans.
- All storm sewer pipe under pavement, regardless of size, shall be reinforced concrete pipe (A.S.T.M. C-76, Class III) unless noted otherwise on the plans.
- Corrugated metal pipe shall conform to the standard specifications for corrugated culvert pipe M36, A.A.S.H.T.O. See plans for gauge.
- All manhole and inlet tops shall be built to the elevations shown on these plans. If no top elevation is shown, it will be the responsibility of the contractor to contact the engineer for such information prior to construction. At the time of construction stake-out of the sewer lines, all curb and grate inlets will be face staked. If normal face stakes fall in line with sewer construction the Engineer will set these stakes on a double offset. It shall be the responsibility of the sewer contractor to preserve all face stakes from destruction.
- All standard street curb inlets to have front of inlet 2 feet behind curb.
- All sanitary and storm sewers shall meet all specifications and installation requirements of the local governing authority.
- Easements shall be provided for storm sewers, sanitary sewers and all utilities on the record plat. See record plat for location and size of easements. This does not apply to house laterals.
- All P.V.C. water pipe shall have a minimum pressure rating of PR-200 or SDR-21.
- All water lines shall be laid at least 10 feet horizontally, from any sanitary sewer, storm sewer, or manhole. Whenever water lines must cross sanitary sewers, laterals or storm drains the water lines shall be laid at such an elevation that the bottom of the water line is 18 inches above the top of the drain or sewer. A full length of water pipe shall be centered over the sewer line to be crossed so that the joints will be equally distant from the sewer and as remote therefrom as possible. This vertical separation shall be maintained for that portion of the water line located within 10 feet, horizontally, of any sewer or drain it crosses.
- Water lines, valves, sleeves, meters and etc. shall meet all specifications and installation requirements of the local governing authority.
- All cast iron pipe for water mains shall conform to A.W.W.A. specifications C-106 and/or C-108. The cast iron fittings shall conform to A.W.W.A. specification C-110. All rubber gasket joints for water cast iron pressure pipe and fittings shall conform to A.W.W.A. specification C-111.
- All water hydrants and valves shall be cast iron and installed in accordance with plans and details.
- All streets within the public right-of-way must meet specifications and installation requirements of the City of O'Fallon.
- Hazard markers will consist of three (3) Standard Specifications, "Manual on Uniform Traffic Control Devices", and of roadway markers mounted on two (2) pound "U" channel sign post. Each marker shall consist of an eighteen (18) inch diamond reflectorized red panel. The bottom of each panel shall be mounted a minimum of four (4) feet above the elevation of the pavement surface.
- The City of O'Fallon, shall be notified at least 48 hours prior to construction of sanitary sewers for coordination and inspection.



LOT DESIGN CRITERIA

- This Tract is Served By Or Located In:
- CENTRAL ELECTRIC POWER COOPERATIVE - TRANSMISSION LINE
Contact - Mr. Donald Shaw: phone 1-634-2454
 - CLUIRE ELECTRIC POWER COOPERATIVE - SECONDARY POWER SOURCE
Contact - Mr. Dan Brown: phone 441-7410
 - UNION ELECTRIC COMPANY - PRIMARY POWER SOURCE
Contact - Mr. Ralph Crank, Jr.: phone 327-6203
 - CONTINENTAL TELEPHONE COMPANY
Contact - Mr. Jeff Heger: phone 1-327-3054
 - DEKORBY CREEK SEWER DISTRICT
Contact - Mr. Barry Smith: phone 441-1244
 - ST. CHARLES COUNTY WATER DISTRICT NO. 2
Contact - Mr. Vic Kappelman: phone 239-3480
 - O'FALLON FIRE PROTECTION DISTRICT
Contact - Mr. Dave House: phone 1-272-3493
 - ST. CHARLES GAS COMPANY
Contact - Mr. Jim Gaskron-Residential: phone 1-723-0495
Contact - Mr. Gene Bohler-Commercial: phone 1-723-0495



KEY MAP



LOCATION MAP
N.T.S.

U.S.G.S. BENCHMARK
U.S.G.S. BENCHMARK:
Elevation = 667.596

Orf triangulation Sta., 3.5 mi. SW. of O'Fallon, 0.5 mi. NE. of Berdems Church, 492 ft. NW. of dwelling on land belonging to Ben Orf, 131 ft. NW. of barn, 33 ft. W. of pond, in concrete post; U.S.C. & G.S. standard disk stamped "Orf 1931".

NOTE: To convert from project datum benchmarks to U.S.G.S. datum benchmarks, subtract 0.52 feet from all elevations shown.

PROJECT BENCHMARK

BENCHMARK #12
"O" IN OPEN - FIRE HYDRANT SOUTH SIDE HWY N, 2900 WEST OF TWIN CHIMNEYS BLVD
COORDINATES 13,365 NORTH
4.718 EAST
ELEVATION 620.99'

Index

Sheet	Description
SHEET 1	COVER SHEET
SHEET 2	KEY SHEET
SHEET 3	SITE PLAN
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SHEET 8-9	SANITARY PROFILES
SHEET 10-11	STORM PROFILES
SHEET 12	DRAINAGE AREA MAP
SHEET 13	SILTATION CONTROL PLAN
SHEET 14-18	CONSTRUCTION DETAILS

Legend

	Sanitary Sewer (Proposed)	C.I.	Curb Inlet
	Sanitary Sewer (Existing)	D.C.I.	Double Curb Inlet
	Storm Sewer (Proposed)	G.I.	Grate Inlet
	Storm Sewer (Existing)	A.I.	Area Inlet
	Water Line & Size	D.A.I.	Double Area Inlet
	Tee & Valve	C.C.	Concrete Collar
	Hydrant	F.E.	Flared End Section
	Cap	E.P.	End Pipe
	Lot or Building Number	E.D.	Energy Dissipator
	Existing Fence Line	M.H.	Manhole
	Existing Tree Line	C.P.	Concrete Pipe
	Street Sign	R.C.P.	Reinforced Concrete Pipe
	Light Standard	C.M.P.	Corrugated Metal Pipe
	Existing Contour	C.I.P.	Cast Iron Pipe
	Proposed Contour	P.V.C.	Polyvinyl Chloride
	Grouted Rip-Rap	V.C.P.	Vitrified Clay Pipe
	End of Lateral	C.O.	Clean Out
	Asphalt Pavement	V.T.	Vent Trap
	Concrete Pavement		
	Storm/Sanitary Structure		
	Test Hole		
	Power Pole		
	Street Address		

BAX ENGINEERING CO., INC.
221 West Blvd. St. Charles, Missouri 63301
946-6588 724-3330
Date: JULY 29, 1988 Order No.: 88-2906

VILLAGE I



NOTE:
 ALL SANITARY LATERALS TO BE 4" PVC
 ALL ISLANDS TO HAVE 6" VERT CONCRETE CURB
 SEE PLANS BY P.R.S. FOR TWIN CHIMNEYS BOULEVARD

VILLAGE D
 SEE IMPROVEMENT PLANS BY P.R.S.

VILLAGE F
 SEE IMPROVEMENT PLANS BY VOLZ

NOTE: MH 547H
 and MH 526H on plans
 by Volz are the same MH

PROP N/F
 JAMES A HANLEY & WIFE
 BK 789 PG 1143

PROP N/F
 STEPHEN G WITTE & WIFE
 BK 939 PG 1114

PROP N/F
 H.C. BOWDEN & WIFE
 BK 902 PG 1310

BATES ESTATES
 P. BK II PG II

PROP N/F
 MEYER, KENNETH & ARLENE
 N88°07'56"W

949.62'

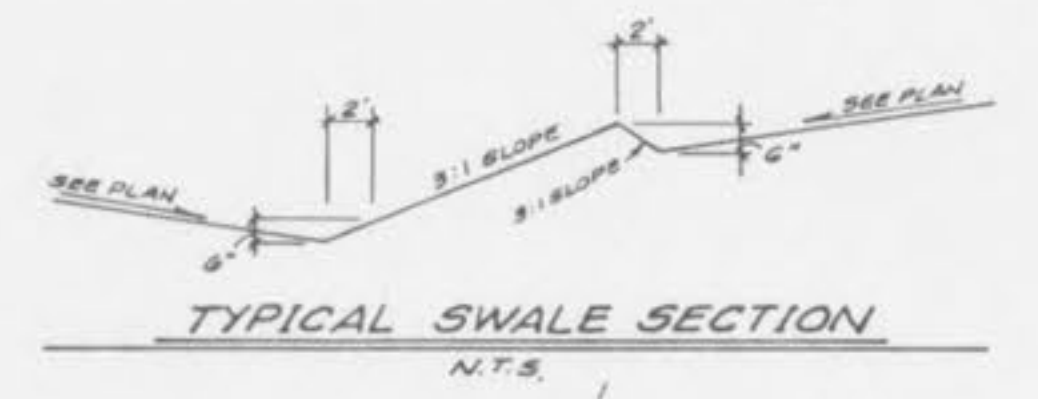


NOTE:
 - ALL HYDRANTS SHALL BE 5' BEHIND BACK OF CURB
 - FOR TYPICAL INSTALLATION DETAILS SEE SHEET 17

THIS PLAN FOR WATER LAYOUT PURPOSES ONLY



VILLAGE D
 SEE GRADING PLAN BY P.R.S.



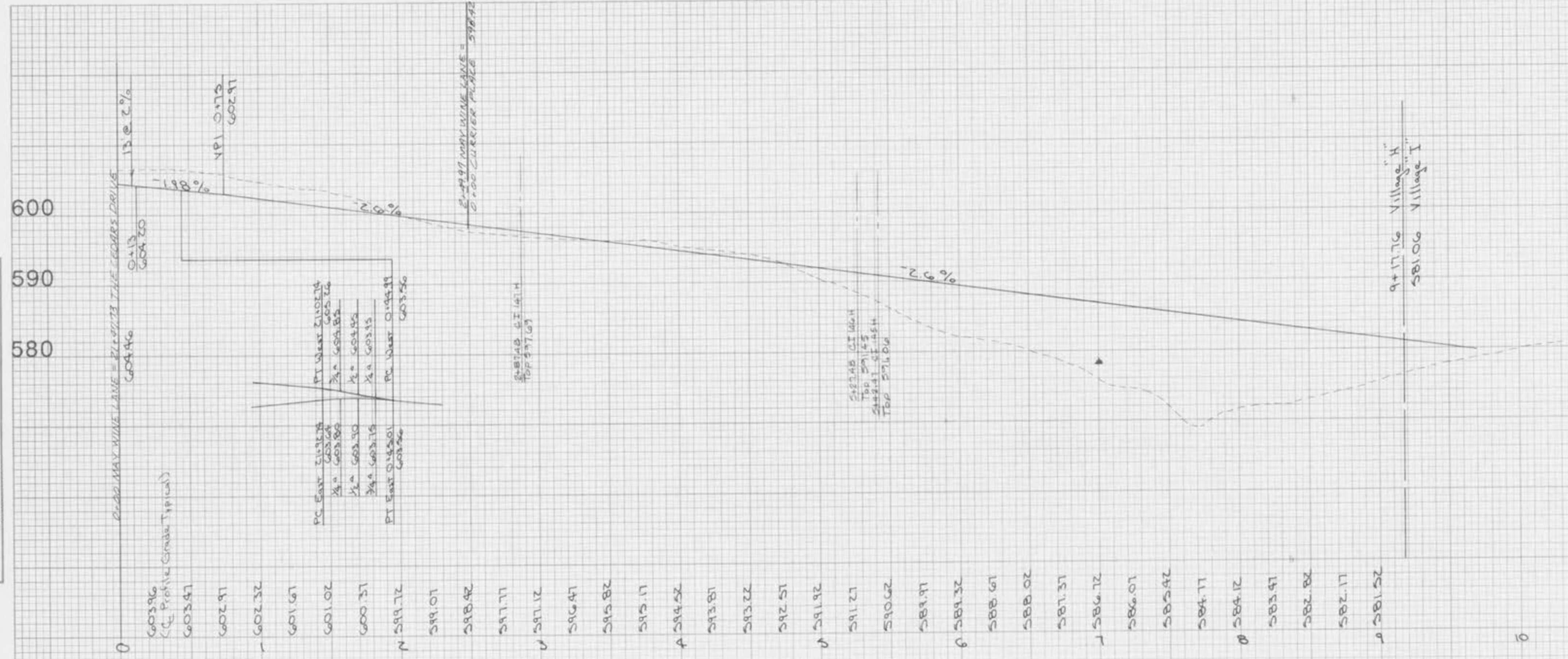
VILLAGE F
 SEE GRADING PLAN BY VOLZ

FINAL SURVEY
 REVISIONS
 PLATTED
 NOTE BOOK
 AREA ENCLOSED

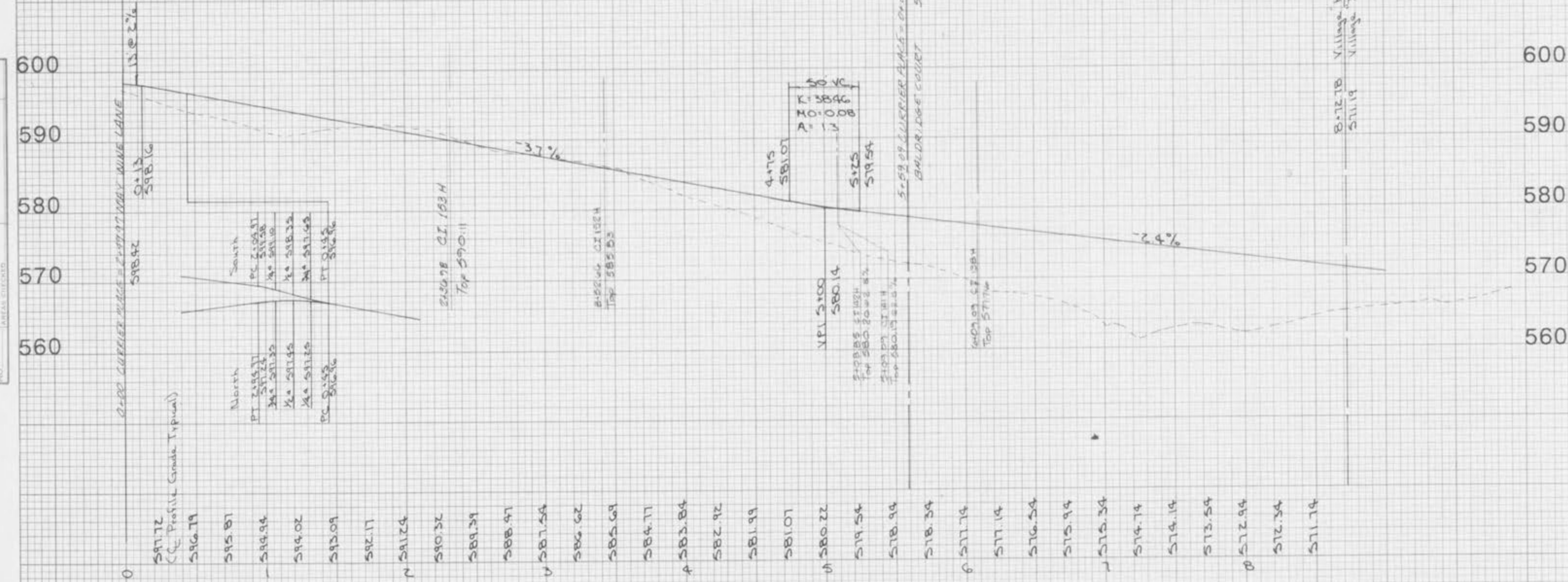
ORIGINAL SURVEY
 REVISIONS
 PLATTED
 NOTE BOOK
 AREA ENCLOSED

STREET PROFILES
VILLAGE H

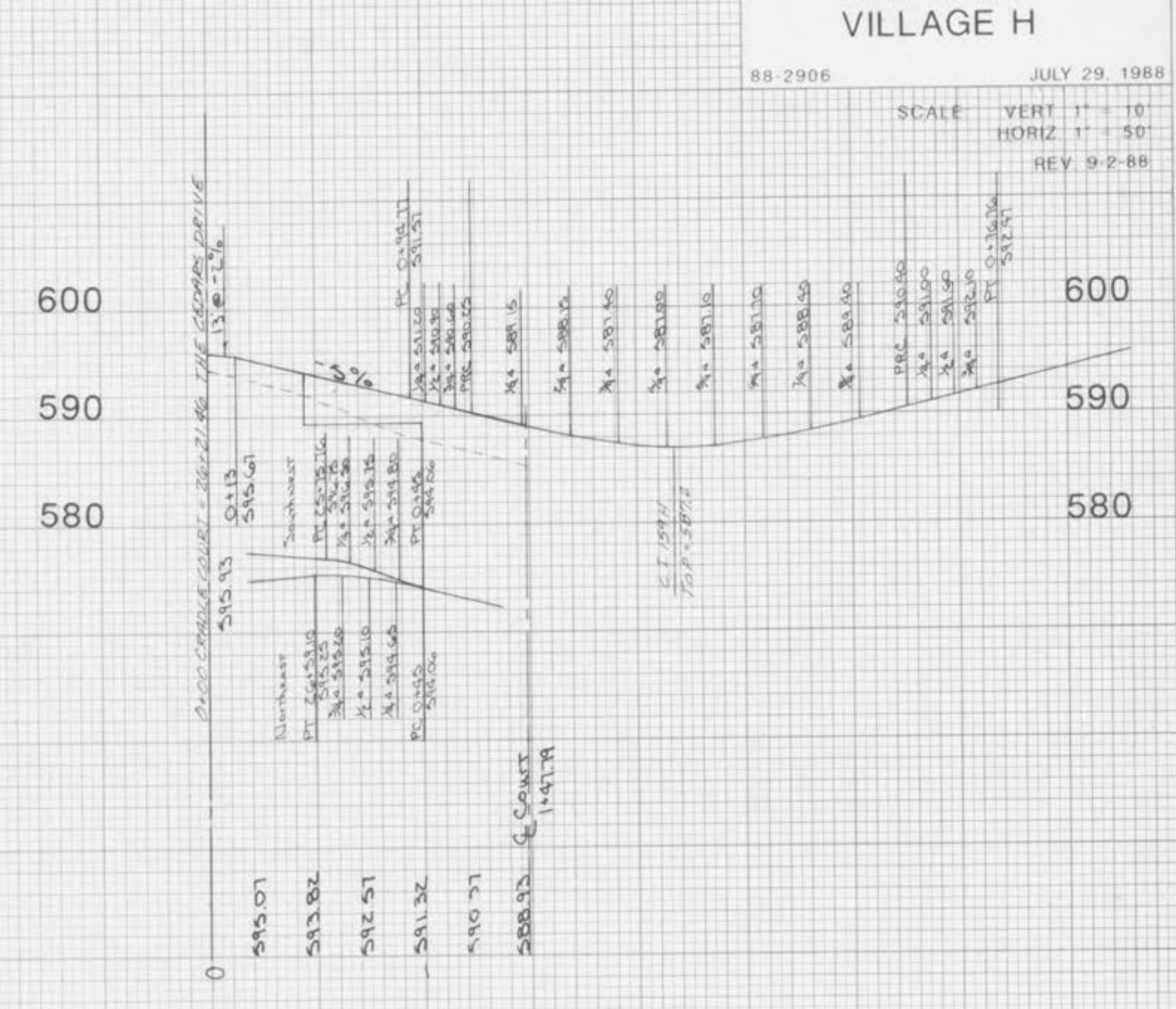
88-2906 JULY 29, 1988
 SCALE VERT 1" = 10'
 HORIZ 1" = 50'
 REV 9-2-88



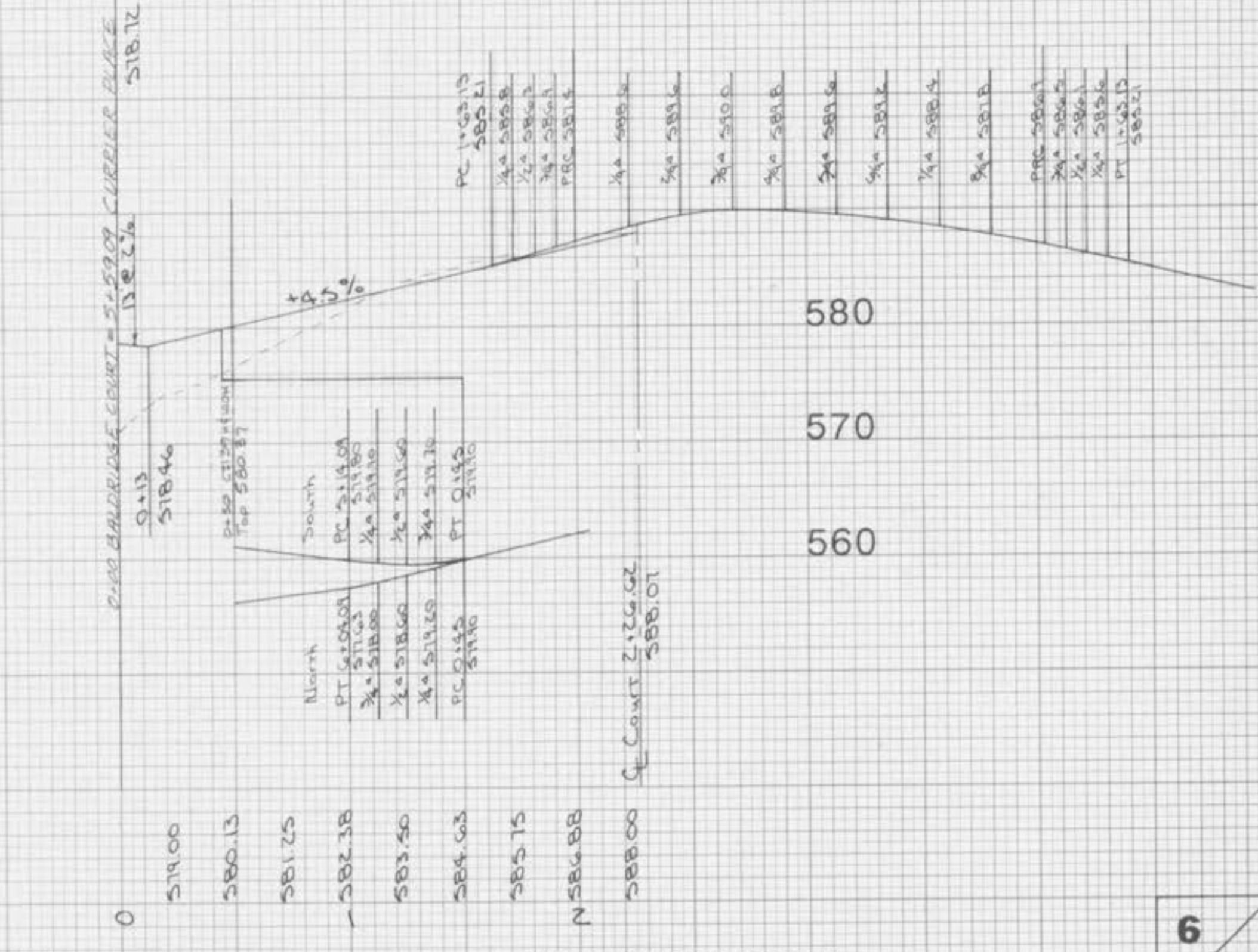
MAY WINE LANE



CURRIER PLACE



CRADLE COURT



BALDRIDGE COURT

STREET PROFILES
VILLAGE H

88 2906 JULY 29, 1988
SCALE VERT 1" = 10'
HORIZ 1" = 50'



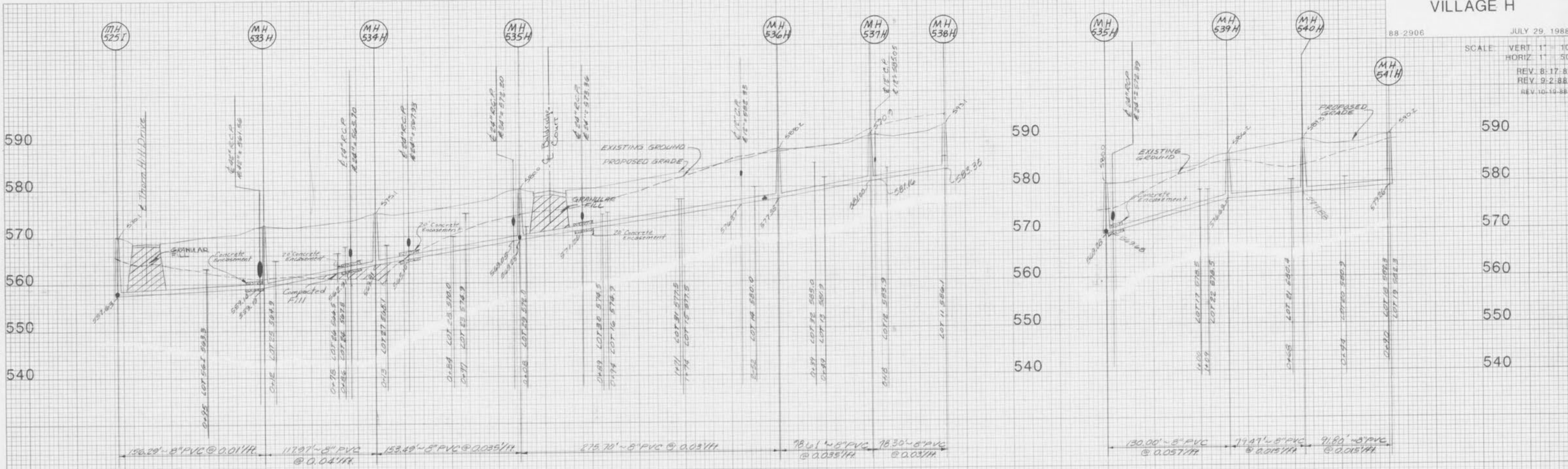
FINAL SURVEY
NO. DATE
BY DATE
REVISIONS
DATE
BY

ORIGINAL SURVEY
NO. DATE
BY DATE
REVISIONS
DATE
BY

SANITARY PROFILES
VILLAGE H

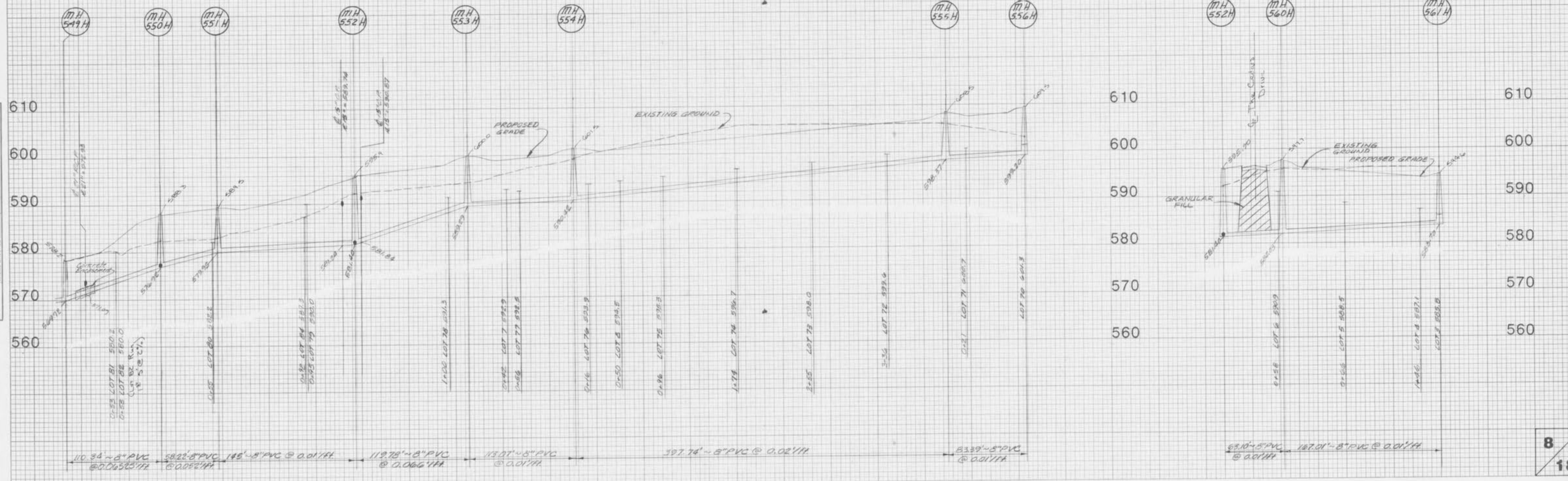
88 2906
JULY 29, 1988
SCALE: VERT. 1" = 10'
HORIZ. 1" = 50'
REV. 8-17-88
REV. 9-2-88
REV. 10-14-88

FINAL SURVEY PLOTTED, NOTE BOOK, AREA CHECKED



NOTE: MH 549H and MH 553H are the same MH.

ORIGINAL SURVEY PLOTTED, NOTE BOOK, AREA CHECKED



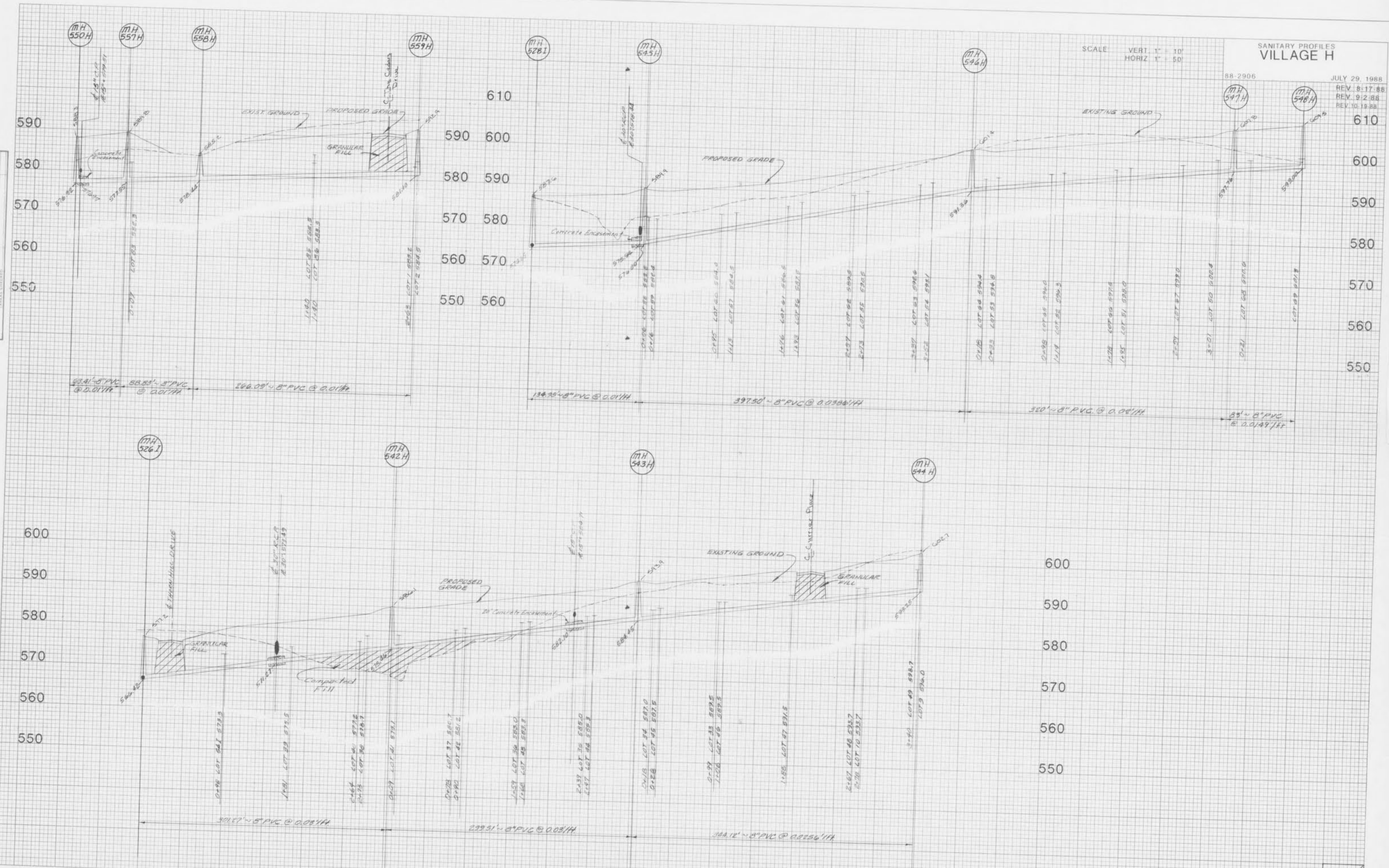
SANITARY PROFILES
VILLAGE H

SCALE VERT 1" = 10'
HORIZ 1" = 50'

88-2906
JULY 29, 1988
REV. 8-17-88
REV. 9-2-88
REV. 10-19-88

FINAL SURVEY
NOTED BOOK NO.
NOTED DRAWING NO.
NOTED AREA SCHEDULED

ORIGINAL SURVEY
NOTED BOOK NO.
NOTED DRAWING NO.
NOTED AREA SCHEDULED



STORM PROFILES
VILLAGE H

88 2906 JULY 29, 1988
SCALE VERT 1" = 10'
HORIZ 1" = 50'
REV. 8-17-88
REV. 9-2-88
REV. 10-19-88

FINAL SURVEY PLOTTED
NOTE BOOK NO. []
DATE [] BY []

ORIGINAL SURVEY PLOTTED
NOTE BOOK NO. []
DATE [] BY []

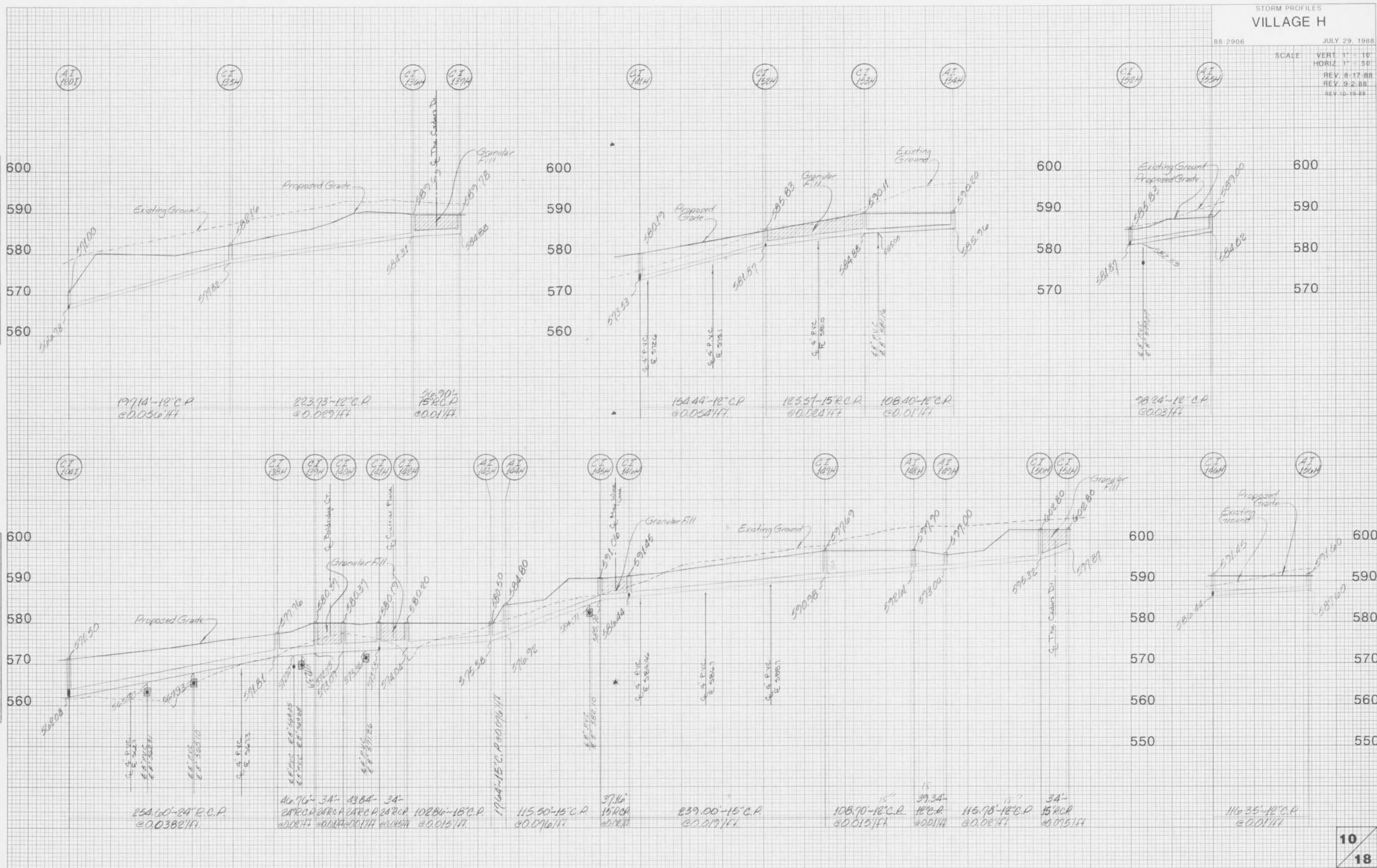


PLATE 3-FULL CROSS SECTION-FULL LINE
PRINTED IN U.S.A.

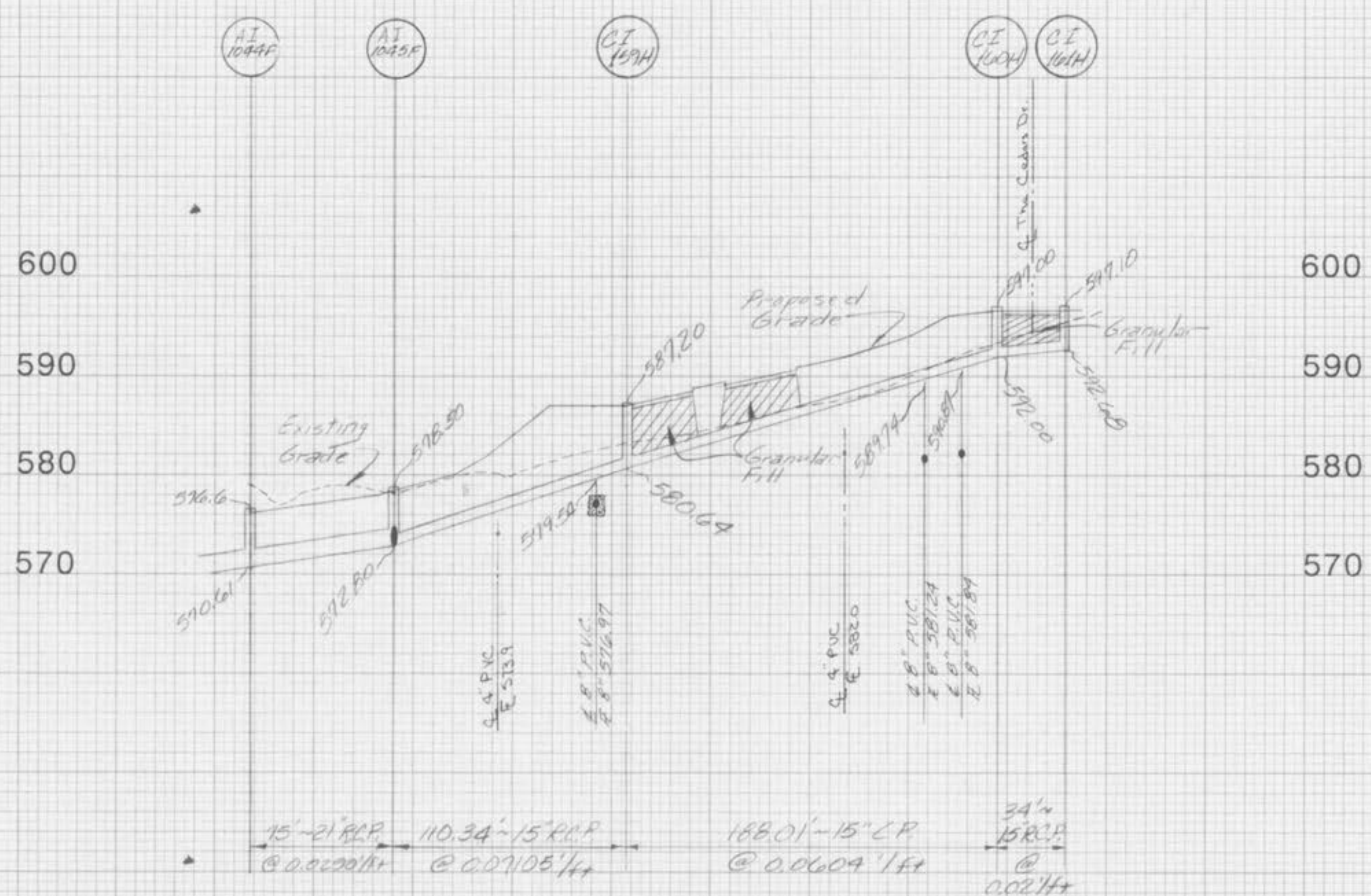
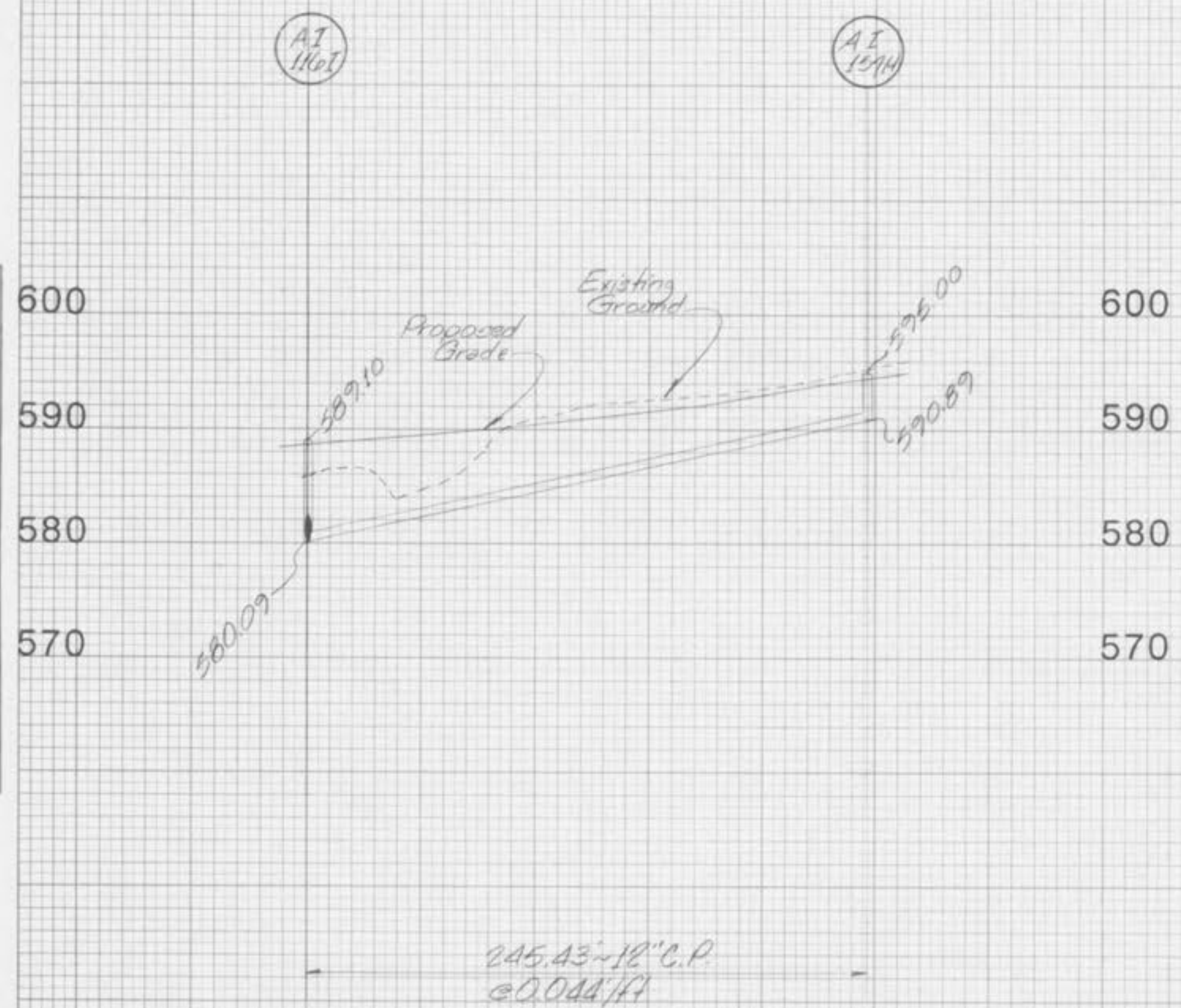
STORM PROFILES
VILLAGE H

88-2906 JULY 29, 1988

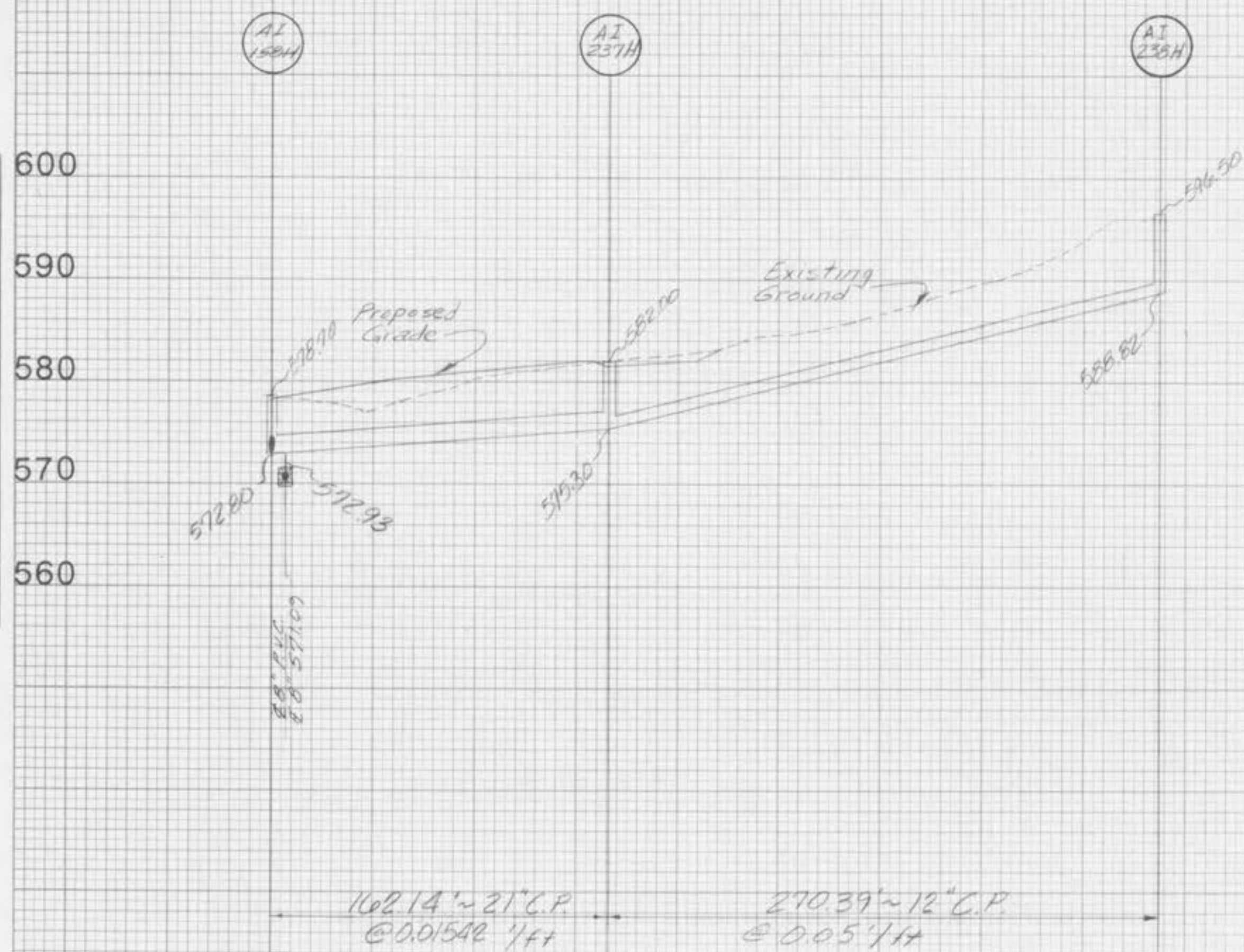
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HORIZ 1" = 50'

REV 8-17-88
REV 9-2-88
REV 10-19-88
REV OCT 20, 1988

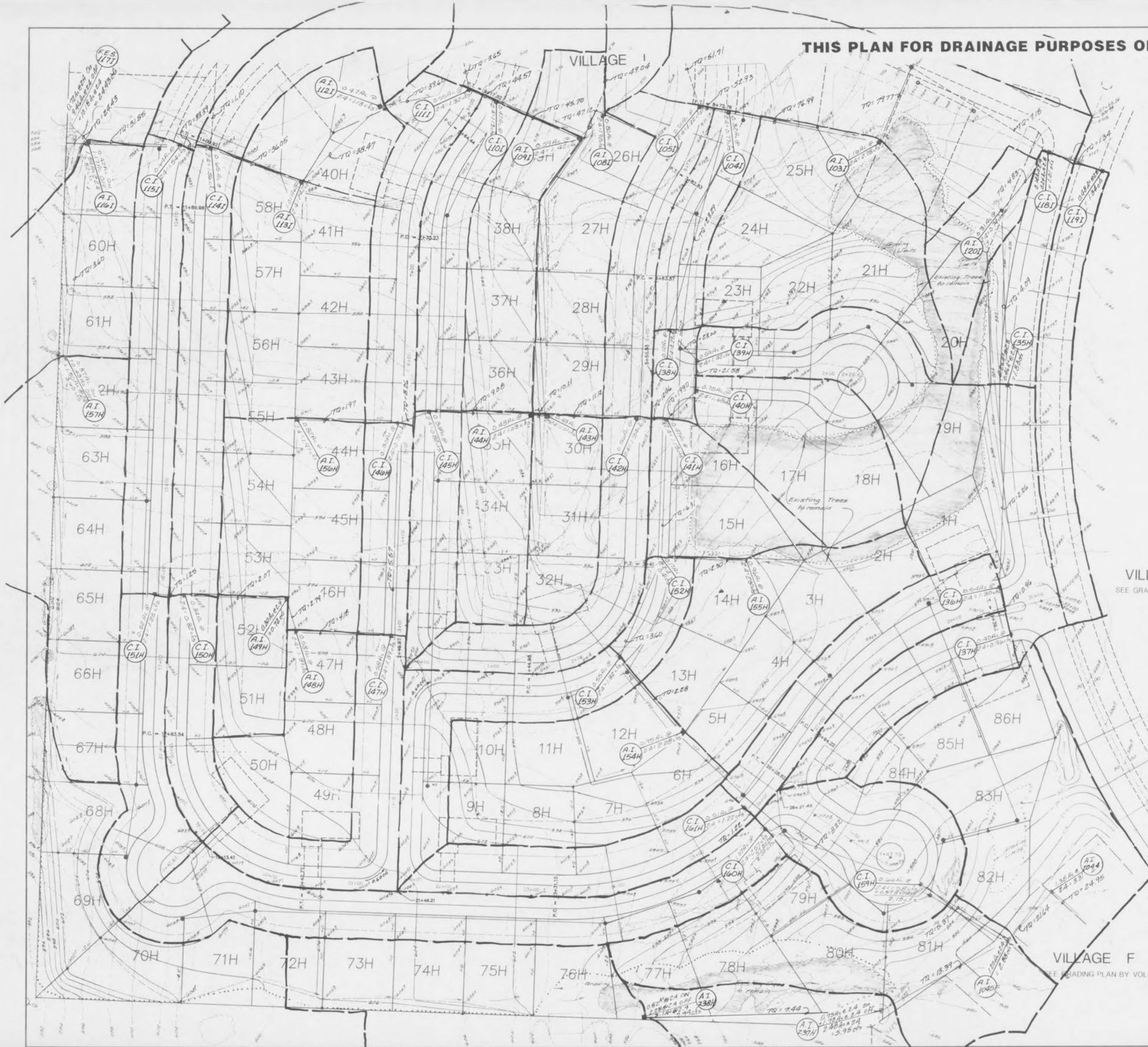
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DATE
BY
REVISIONS
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AREA
DATE



ORIGINAL SURVEY
DATE
BY
REVISIONS
NO. DATE
CHECKED
AREA
DATE



THIS PLAN FOR DRAINAGE PURPOSES ONLY



VILLAGE D
SEE GRADING PLAN BY P.R.S.

VILLAGE F
SEE GRADING PLAN BY VOLZ

OFF-SITE DRAINAGE AREAS



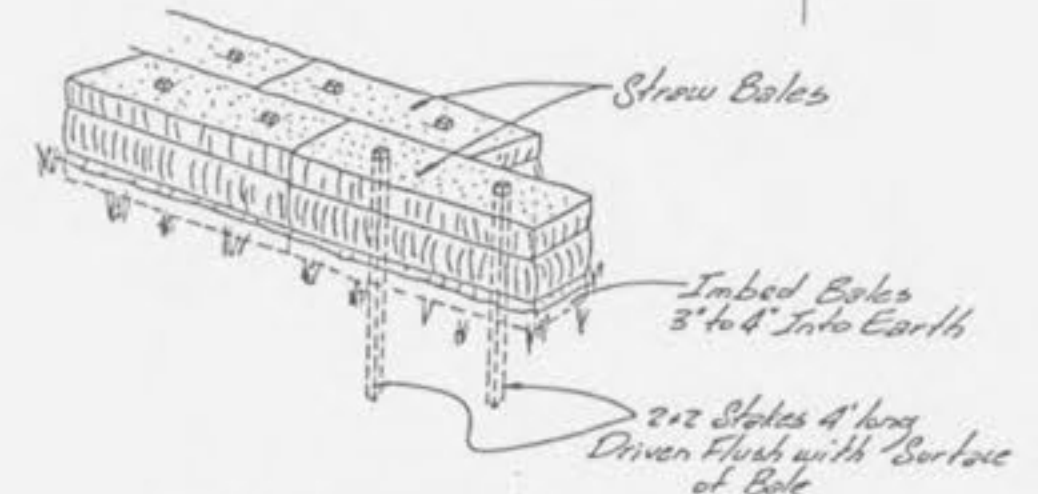
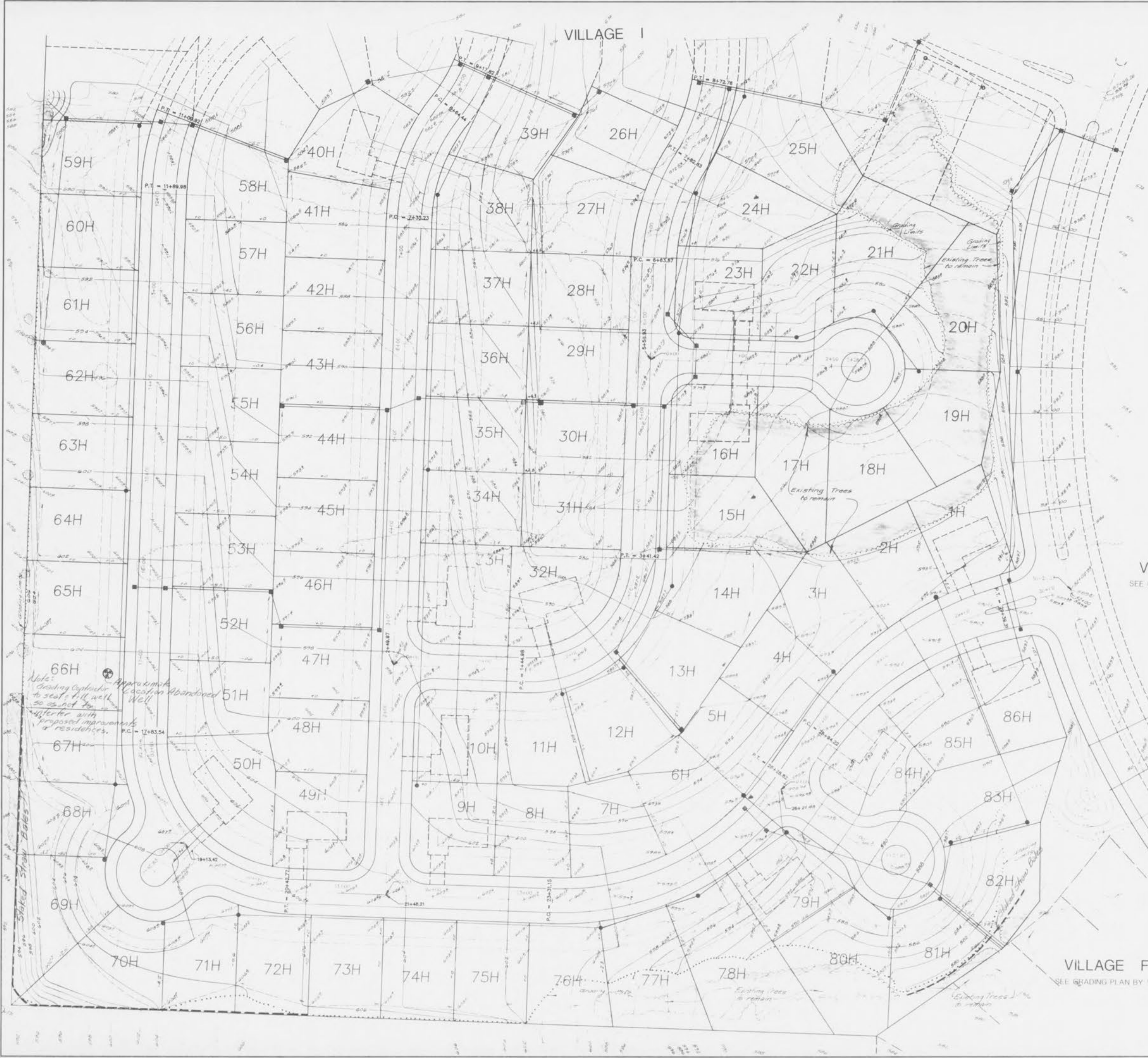
VILLAGE I

VILLAGE D

SEE GRADING PLAN BY P.R.S.

VILLAGE F

SEE GRADING PLAN BY VOLZ



STAKING DETAIL

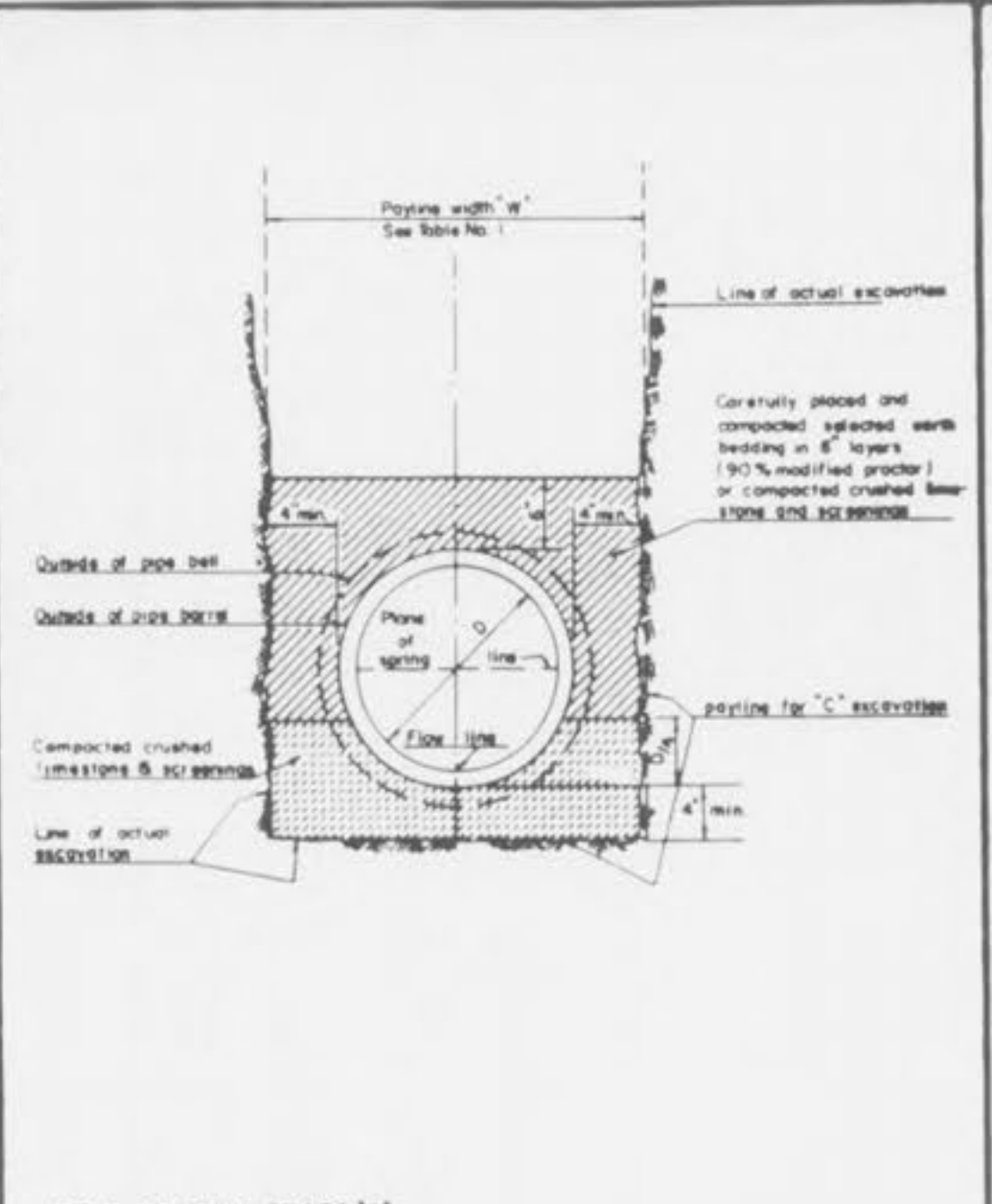
THIS PLAN FOR SILTATION CONTROL PURPOSES ONLY

Note: Existing Contractor to seal & fill well, so as not to interfere with proposed improvements of residences.

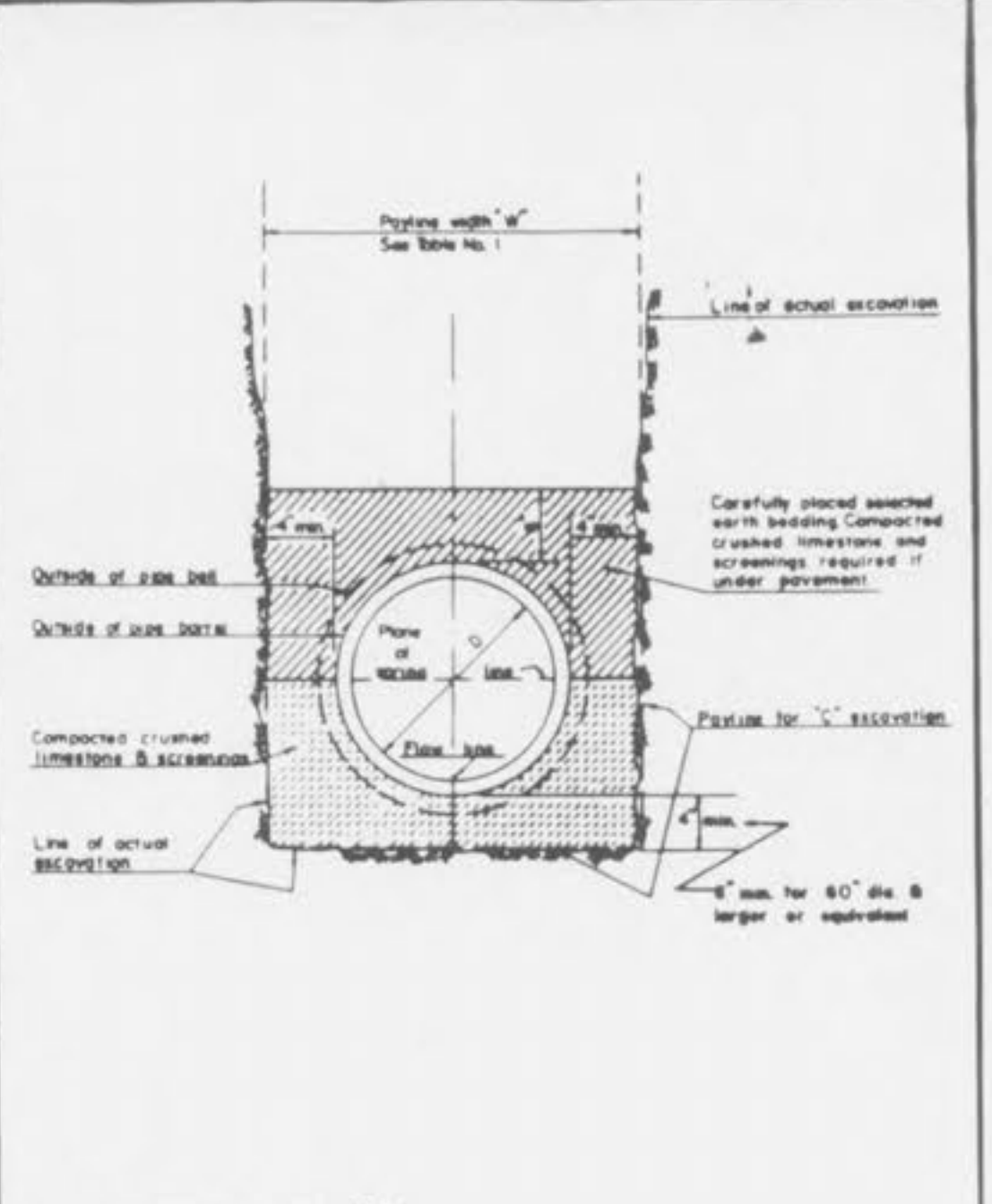
Approximate Location of Abandoned Well

ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
Inside Diameter of Pipe (Inches)	Payline Width of Trench (Inches)	Payline Width of Trench (Feet)	Pay Volume of Concrete Encasement (cu ft per ft)	Inside Dimensions of Pipe (Inches)	Payline Width of Trench (Inches)	Payline Width of Trench (Feet)	Pay Volume of Concrete Encasement (cu ft per ft)
4	28	2.33	3.20				
6	28	2.33	3.46				
8	28	2.33	3.70				
10	28	2.33	3.86				
12	28	2.33	3.98				
15	32	2.67	4.89				
18	35	2.92	5.63	14 x 23	41	3.42	5.94
21	39	3.25	6.61				
24	42	3.50	7.39	19 x 30	49	4.08	7.68
27	45	3.75	8.18	22 x 34	55	4.42	8.61
30	49	4.08	9.30	24 x 38	58	4.83	9.70
33	53	4.42	10.53	27 x 42	62	5.17	10.71
36	56	4.67	11.43	29 x 45	66	5.50	11.72
39	DISCONTINUED						
42	63	5.25	13.38	34 x 53	75	6.25	14.05
48	70	5.83	15.67	38 x 60	83	6.92	16.18
54	77	6.42	18.15	43 x 68	92	7.67	18.81
60	84	7.00	20.73	48 x 76	101	8.42	21.58
66	91	7.58	23.45	53 x 83	109	9.08	24.30
72	98	8.17	26.37	58 x 91	118	9.83	27.45
78	105	8.75	29.39	63 x 98	126	10.50	30.50
84	112	9.33	32.57	68 x 106	135	11.25	33.91
90	119	9.92	35.90	72 x 113	143	11.92	36.99
96	126	10.50	39.37	77 x 121	152	12.67	40.89
102	133	11.08	42.99	82 x 128	160	13.33	44.40
108	140	11.67	46.75	87 x 136	168	14.00	47.79
114	147	12.25	50.66	92 x 143	176	14.67	51.70
120	154	12.83	54.72	97 x 151	185	15.42	56.01
126	161	13.42	58.92				
132	168	14.00	63.27	106 x 186	202	16.83	64.48
144	182	15.17	72.40	116 x 190	218	18.17	73.58

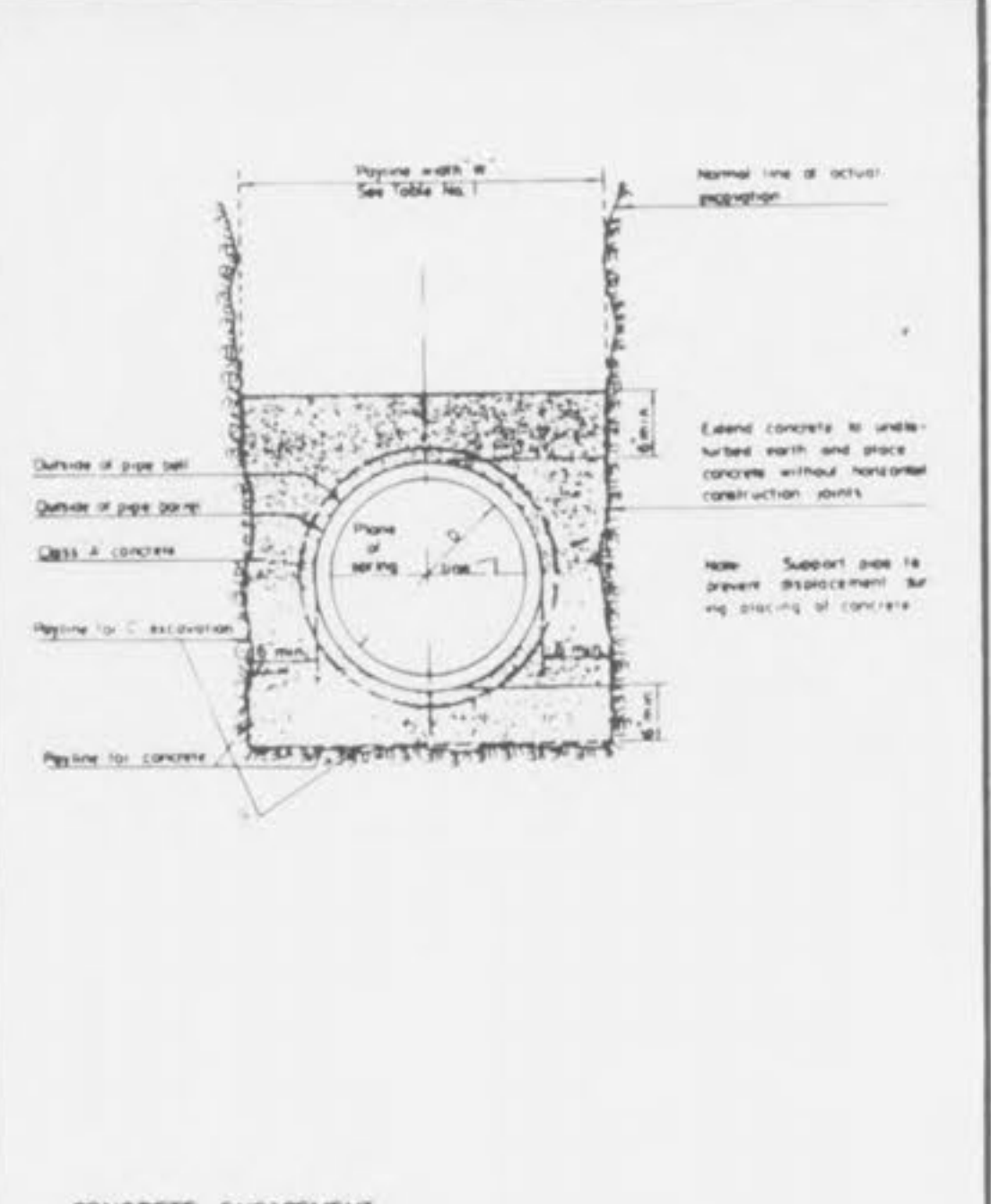
TABLE NO. 1
PAYLINE WIDTHS OF TRENCH AND PAY QUANTITIES OF CONCRETE



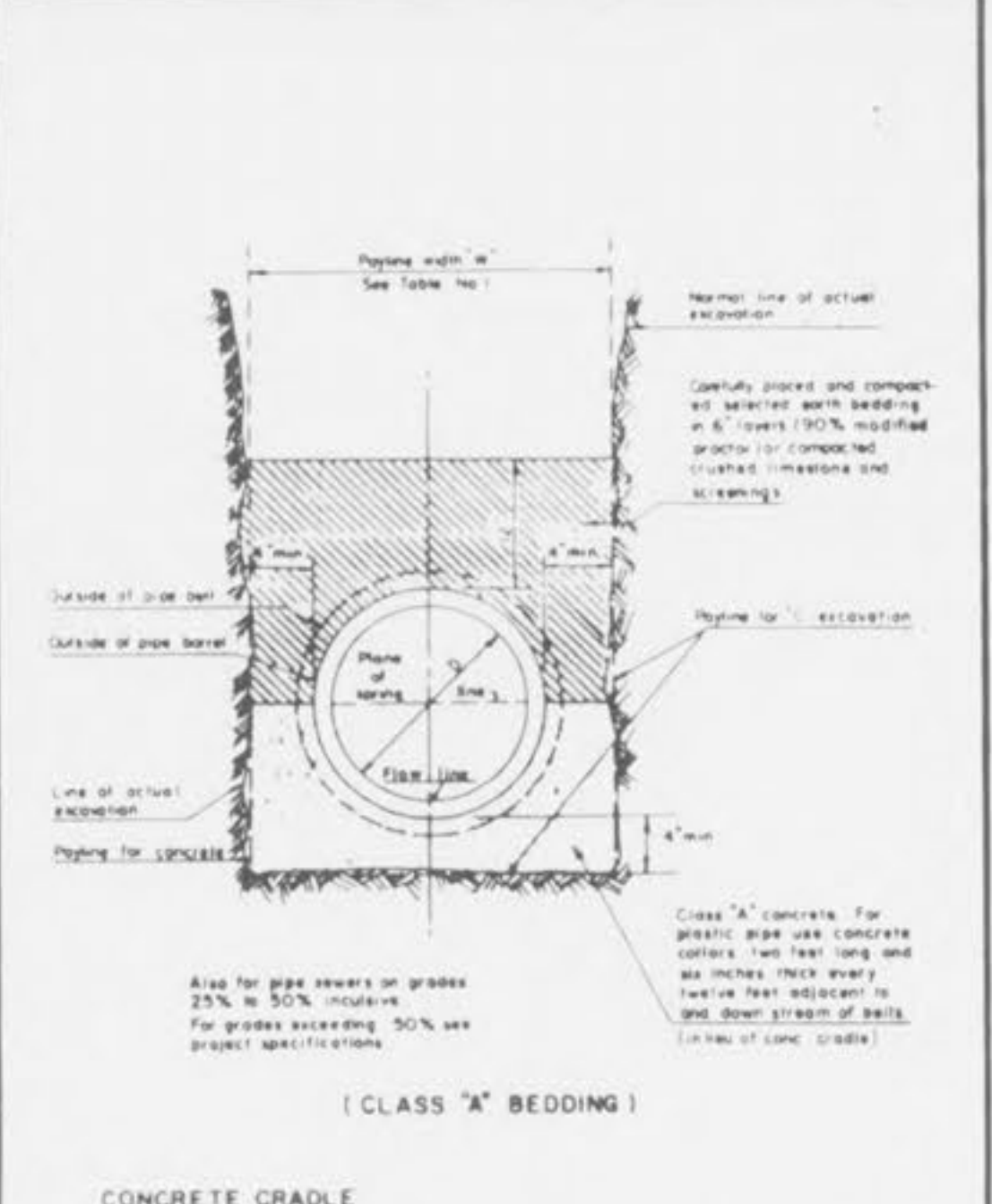
PIPE BEDDING CLASS "C" (FOR ALL PIPE EXCEPT REINFORCED CONCRETE PIPE)



PIPE BEDDING CLASS "C" (MODIFIED FOR REINFORCED CONCRETE PIPE)



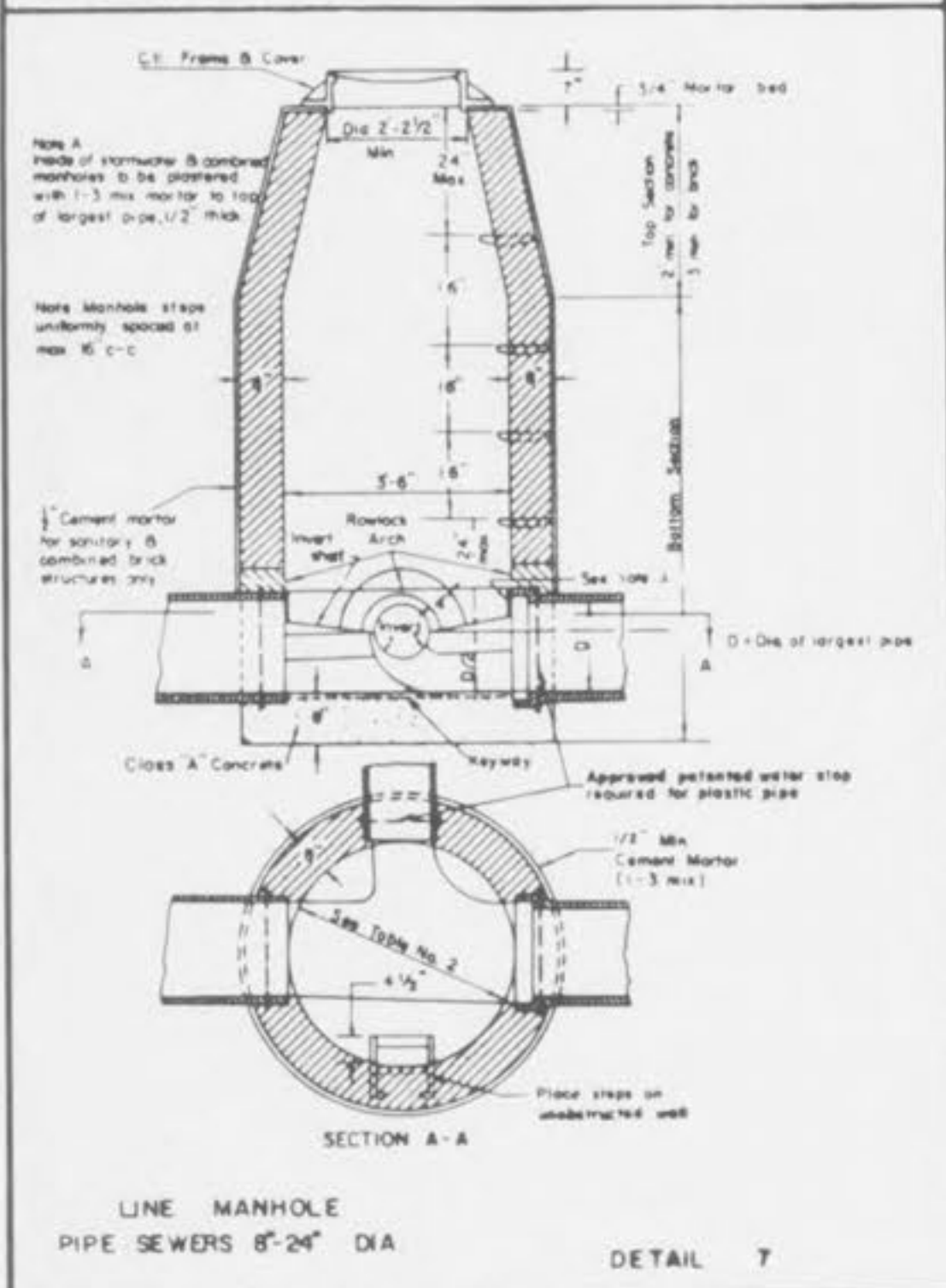
CONCRETE ENCASEMENT



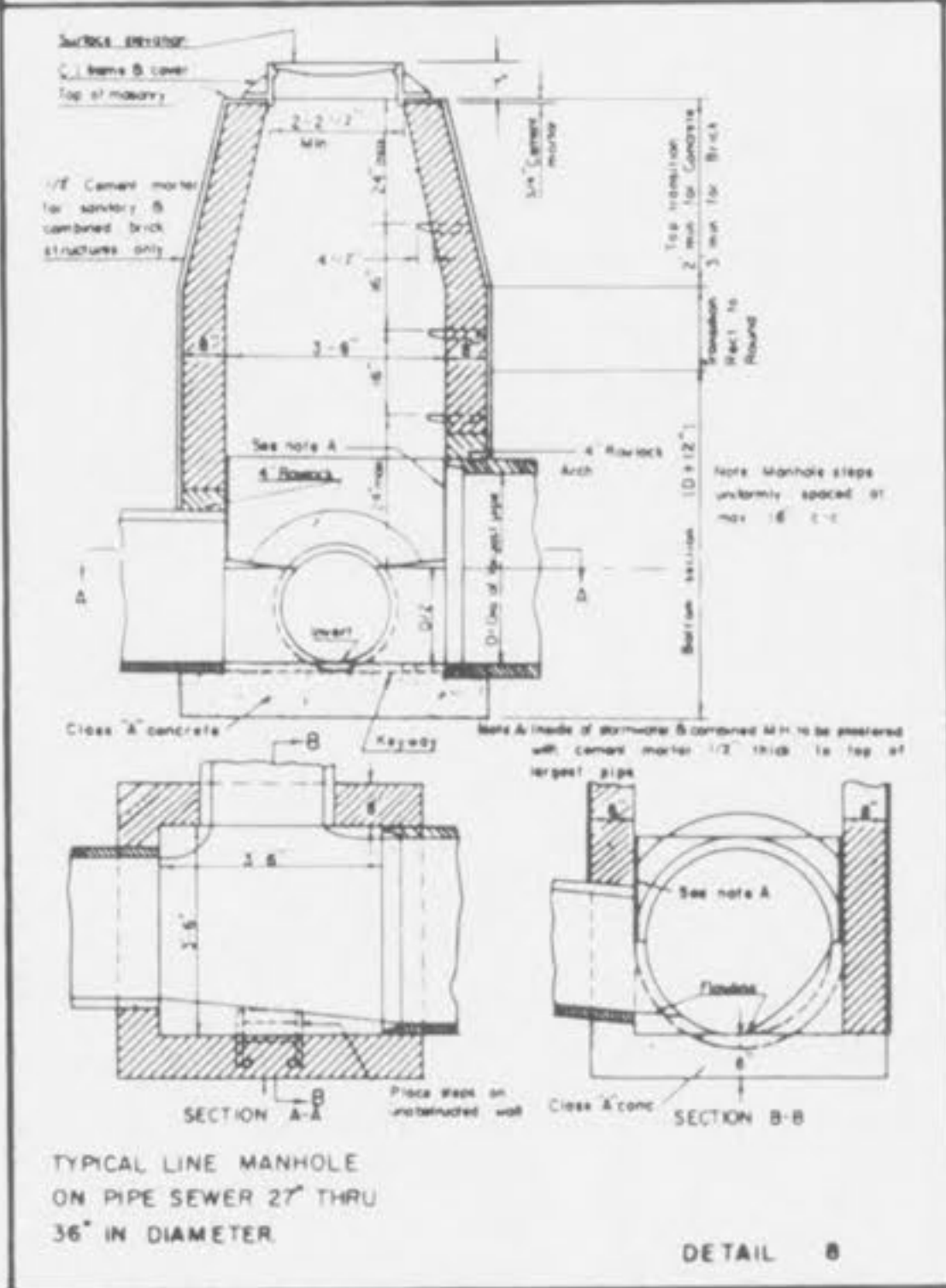
CONCRETE CRADLE

Section of Manhole	Dimension
Top	Upper 2'-2 1/2" Dia
Transition	Lower 3'-6" Dia
Bottom Section	8" thru 24" Dia Pipe 3'-6" Dia
Bottom Section	27" thru 48" Dia Pipe 3'-6" Square

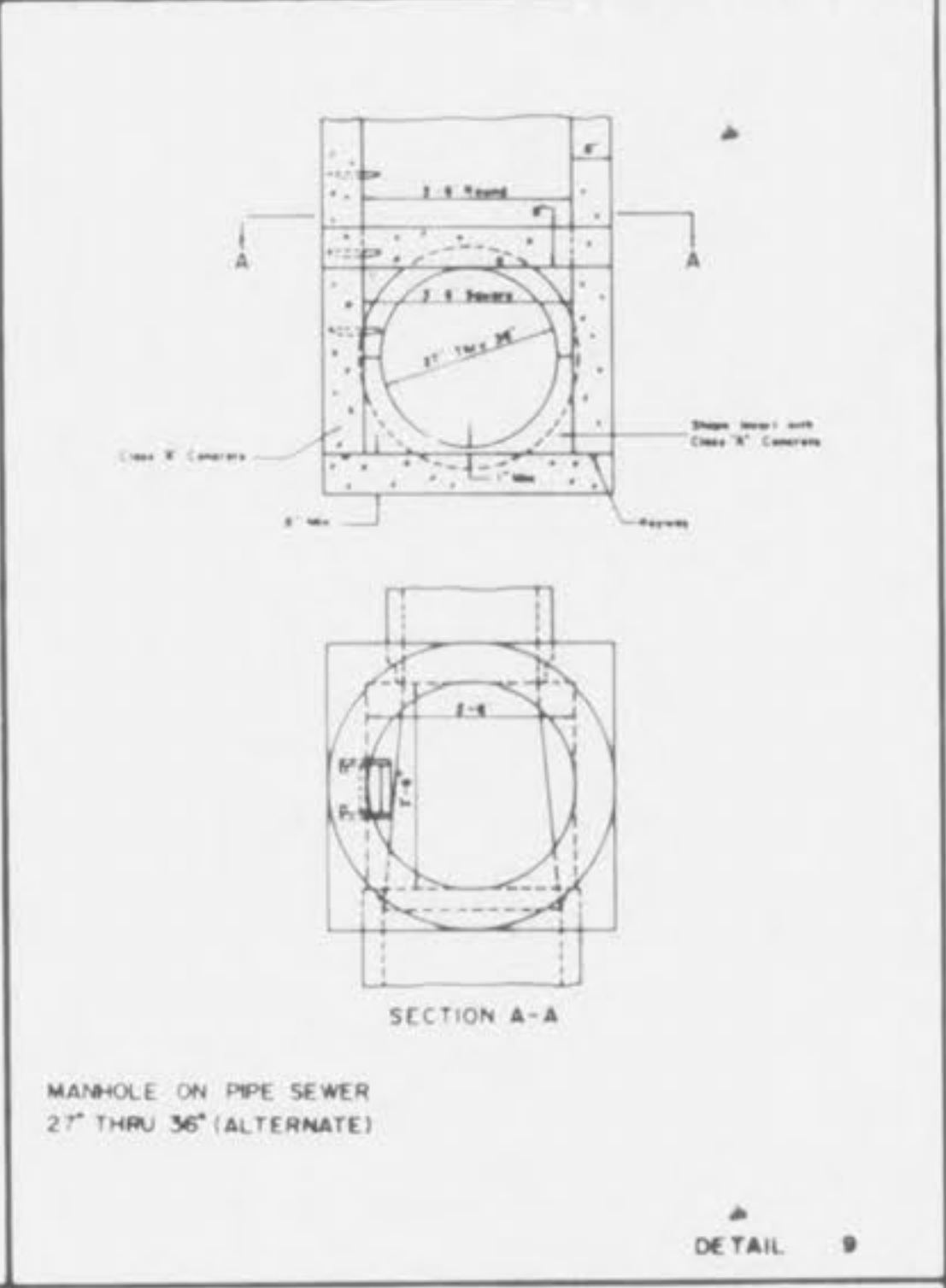
TABLE NO. 2
STANDARD MANHOLE DIMENSIONS



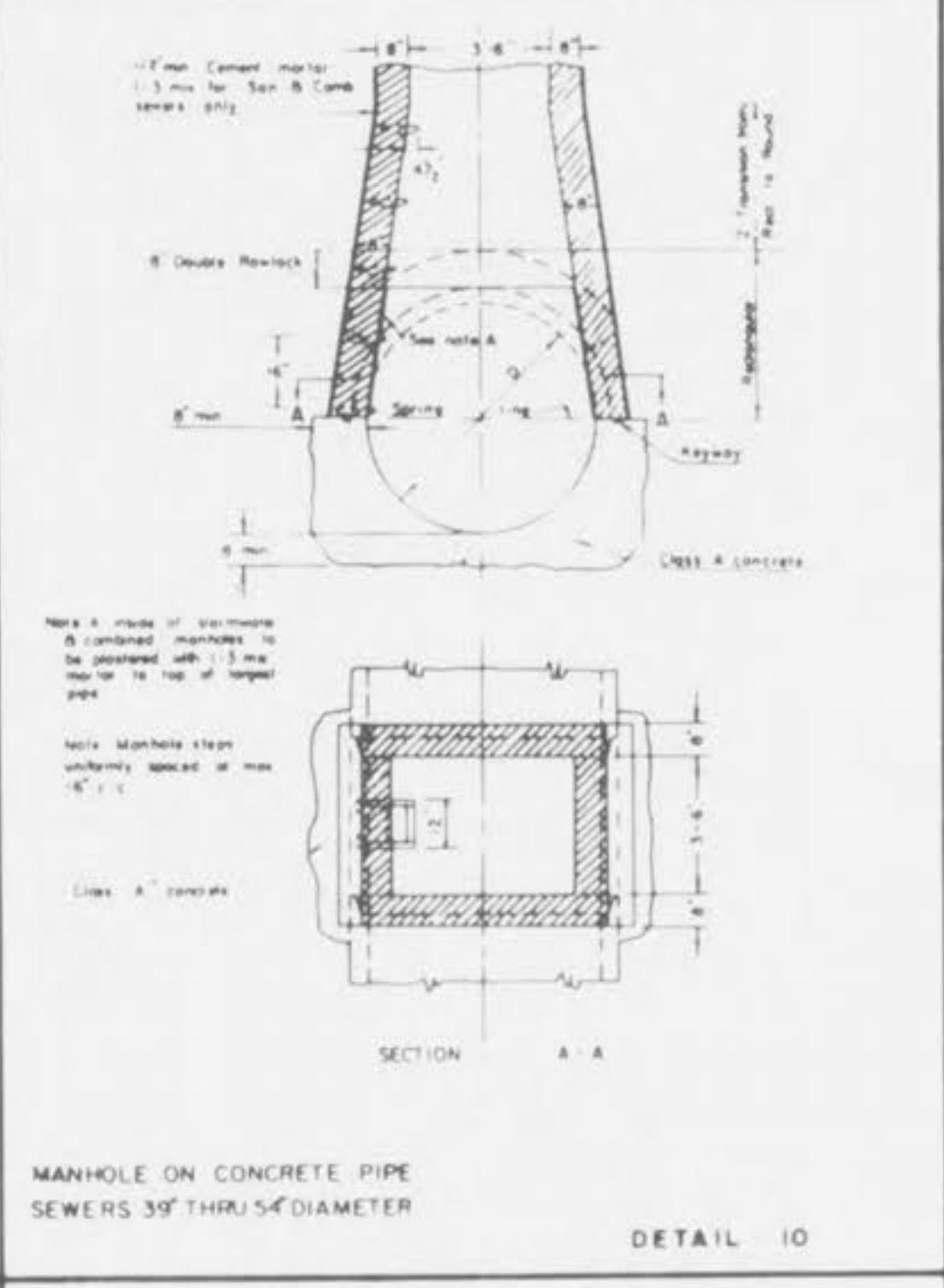
LINE MANHOLE PIPE SEWERS 8" - 24" DIA



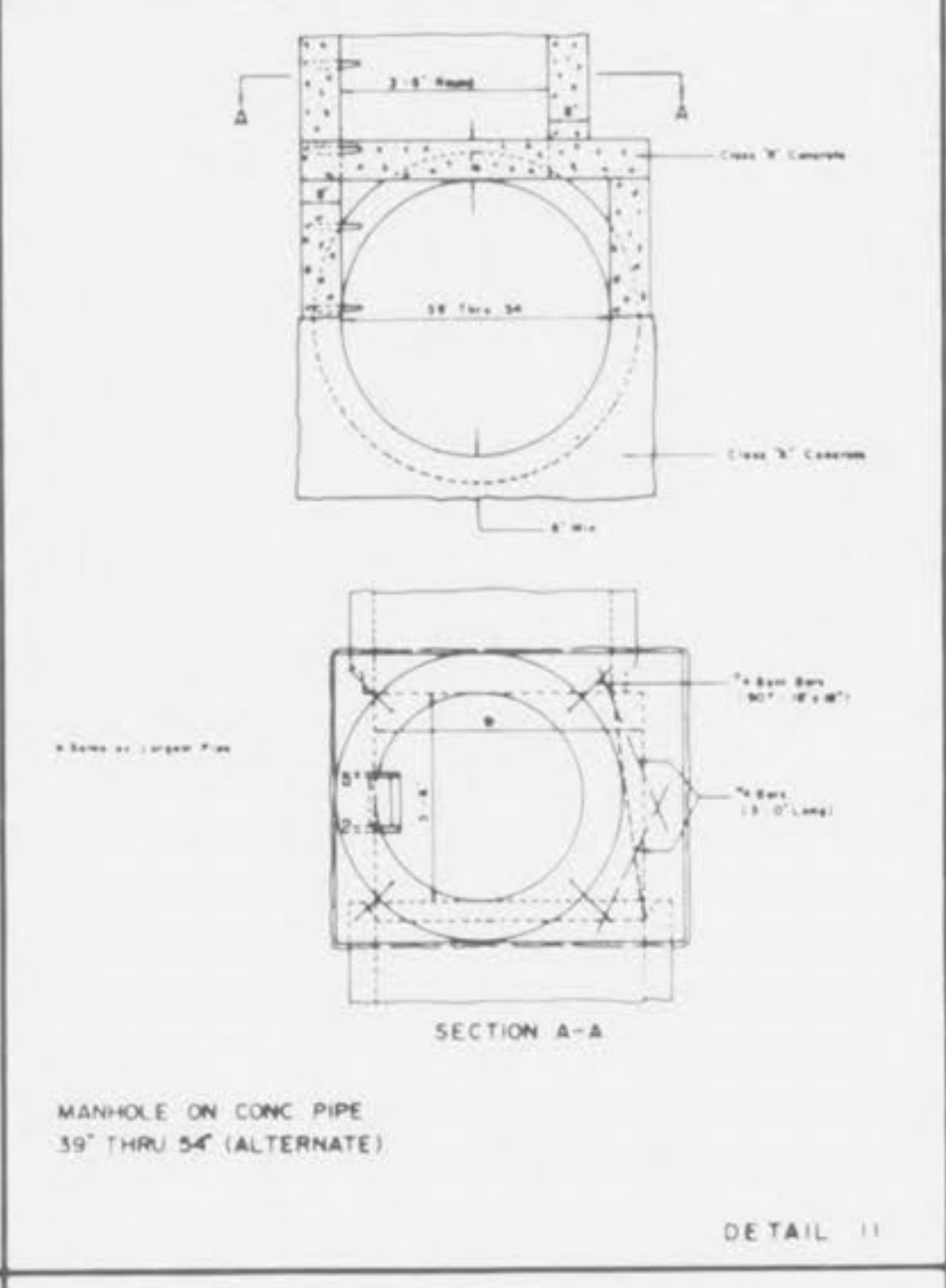
TYPICAL LINE MANHOLE ON PIPE SEWER 27" THRU 36" IN DIAMETER



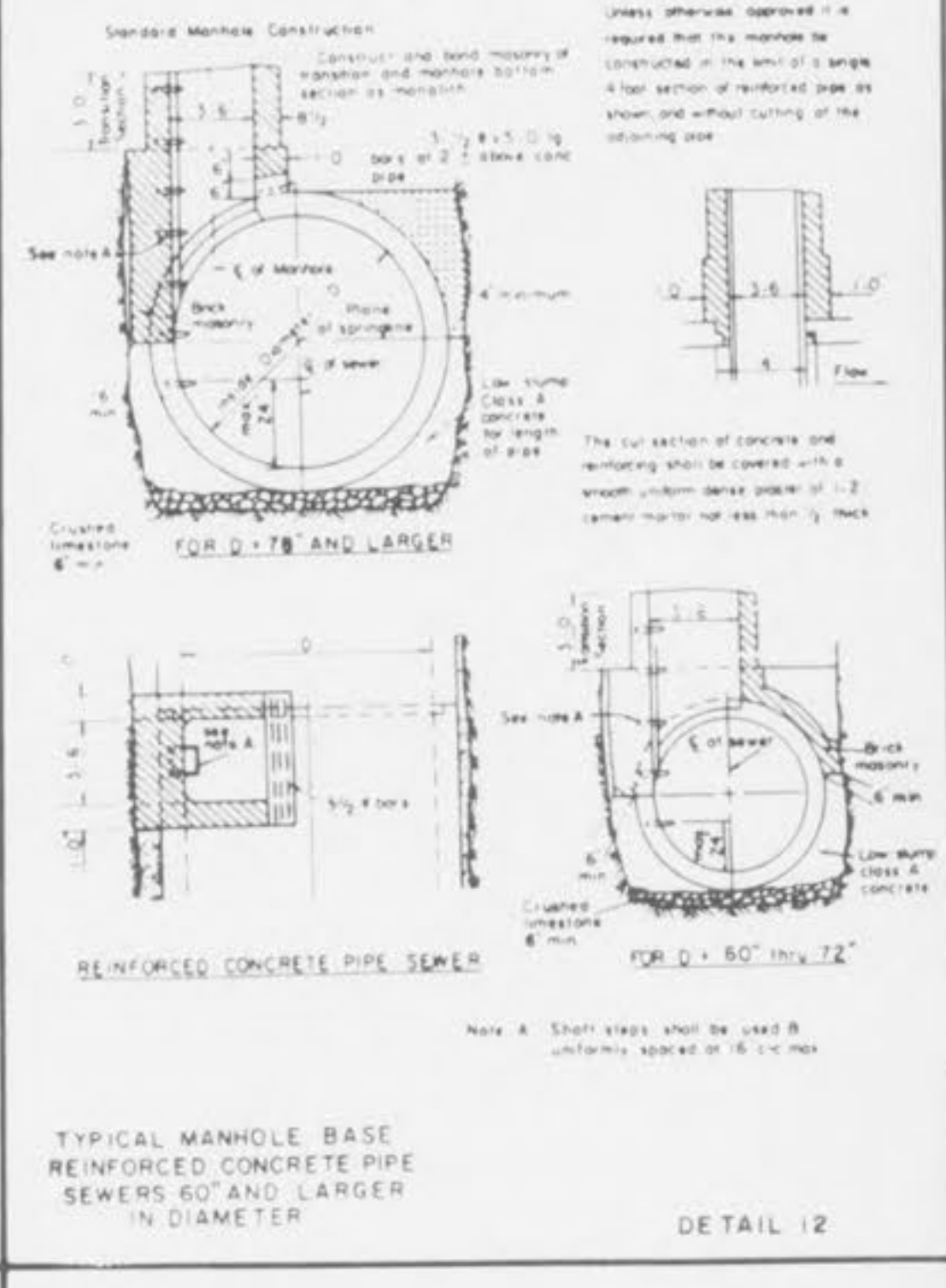
MANHOLE ON PIPE SEWER 27" THRU 36" (ALTERNATE)



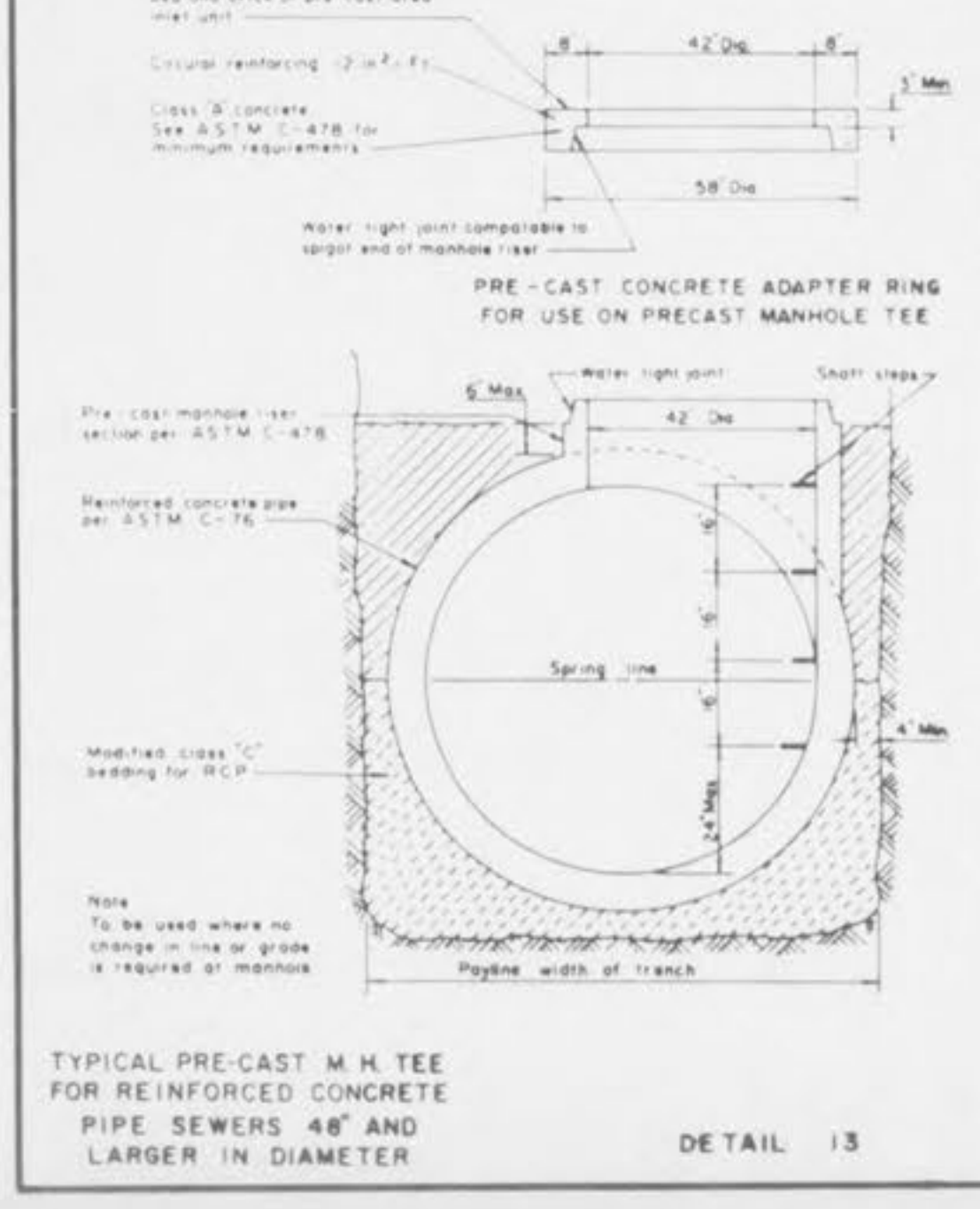
MANHOLE ON CONCRETE PIPE SEWERS 39" THRU 54" DIAMETER



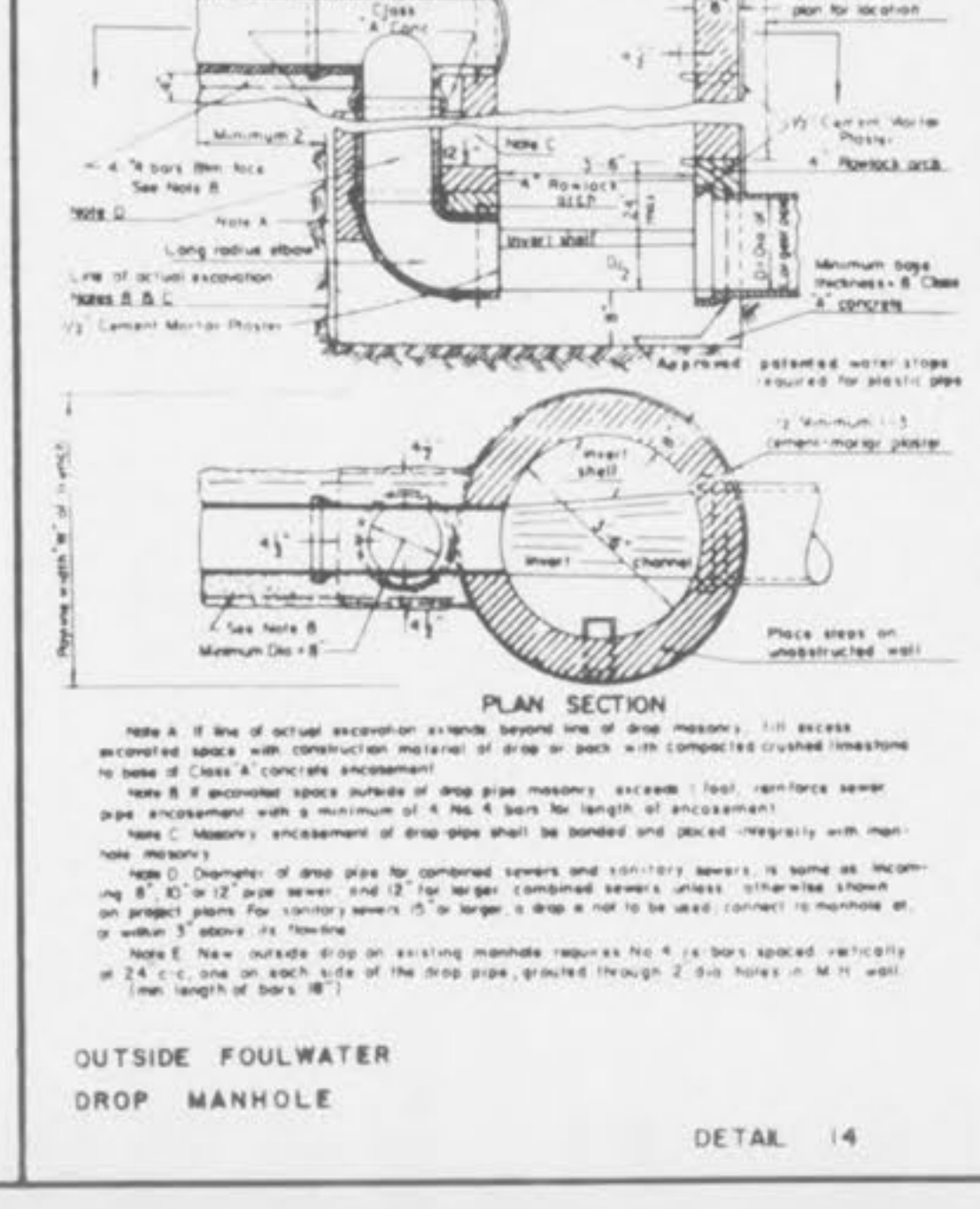
TYPICAL MANHOLE BASE REINFORCED CONCRETE PIPE SEWERS 60" AND LARGER IN DIAMETER



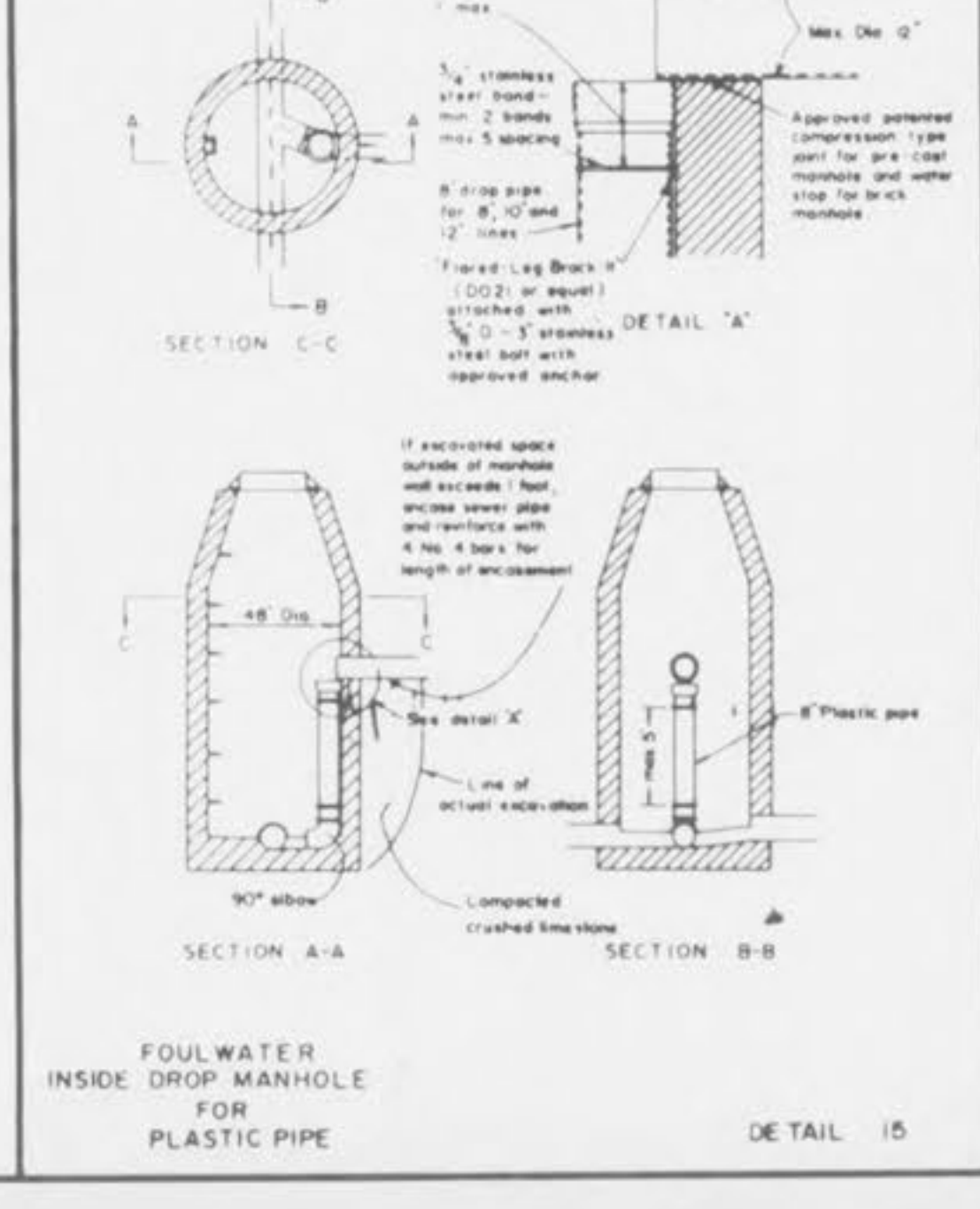
REINFORCED CONCRETE PIPE SEWER FOR D = 78 AND LARGER FOR D = 60" THRU 72"



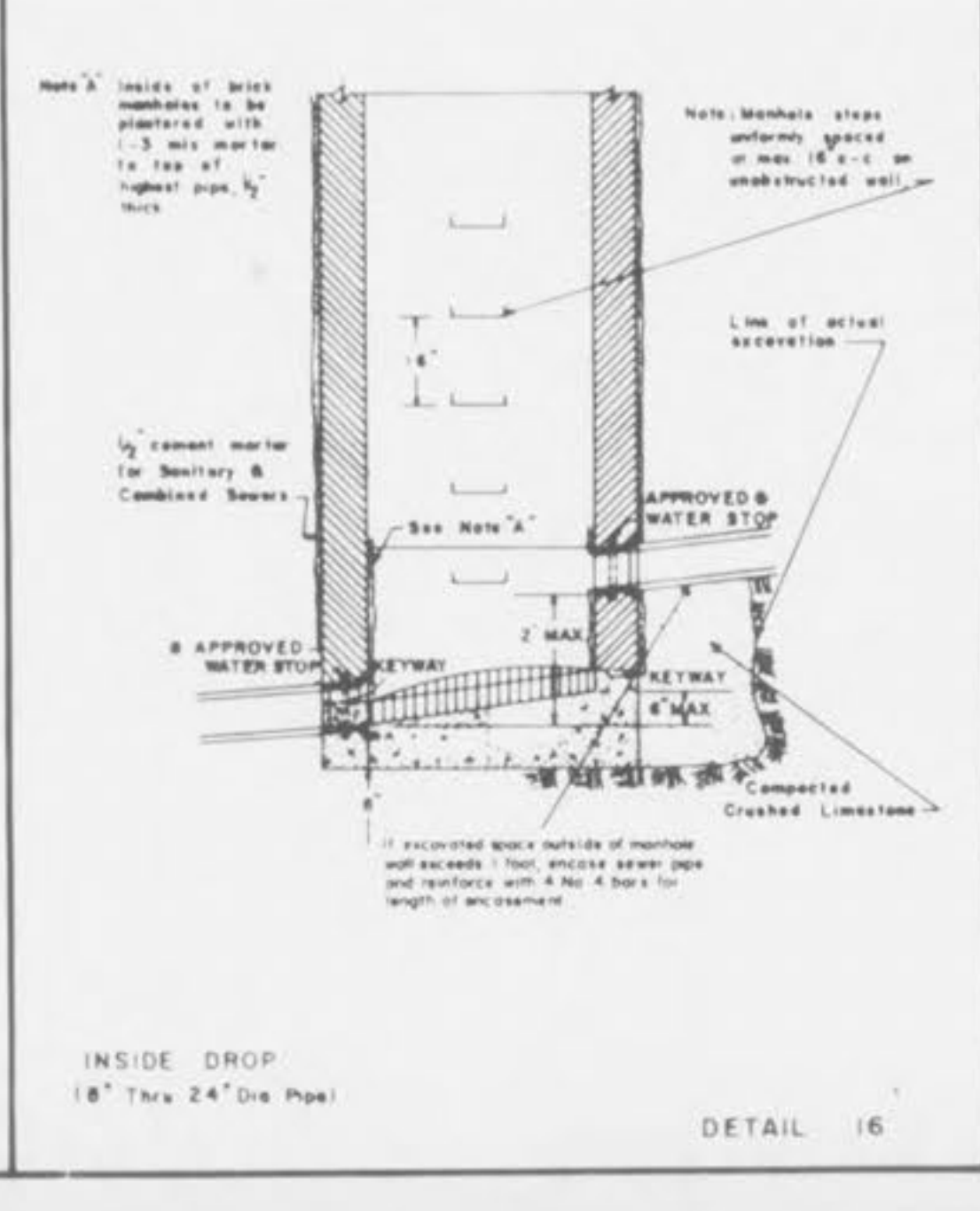
TYPICAL PRE-CAST M.H. TEE FOR REINFORCED CONCRETE PIPE SEWERS 48" AND LARGER IN DIAMETER



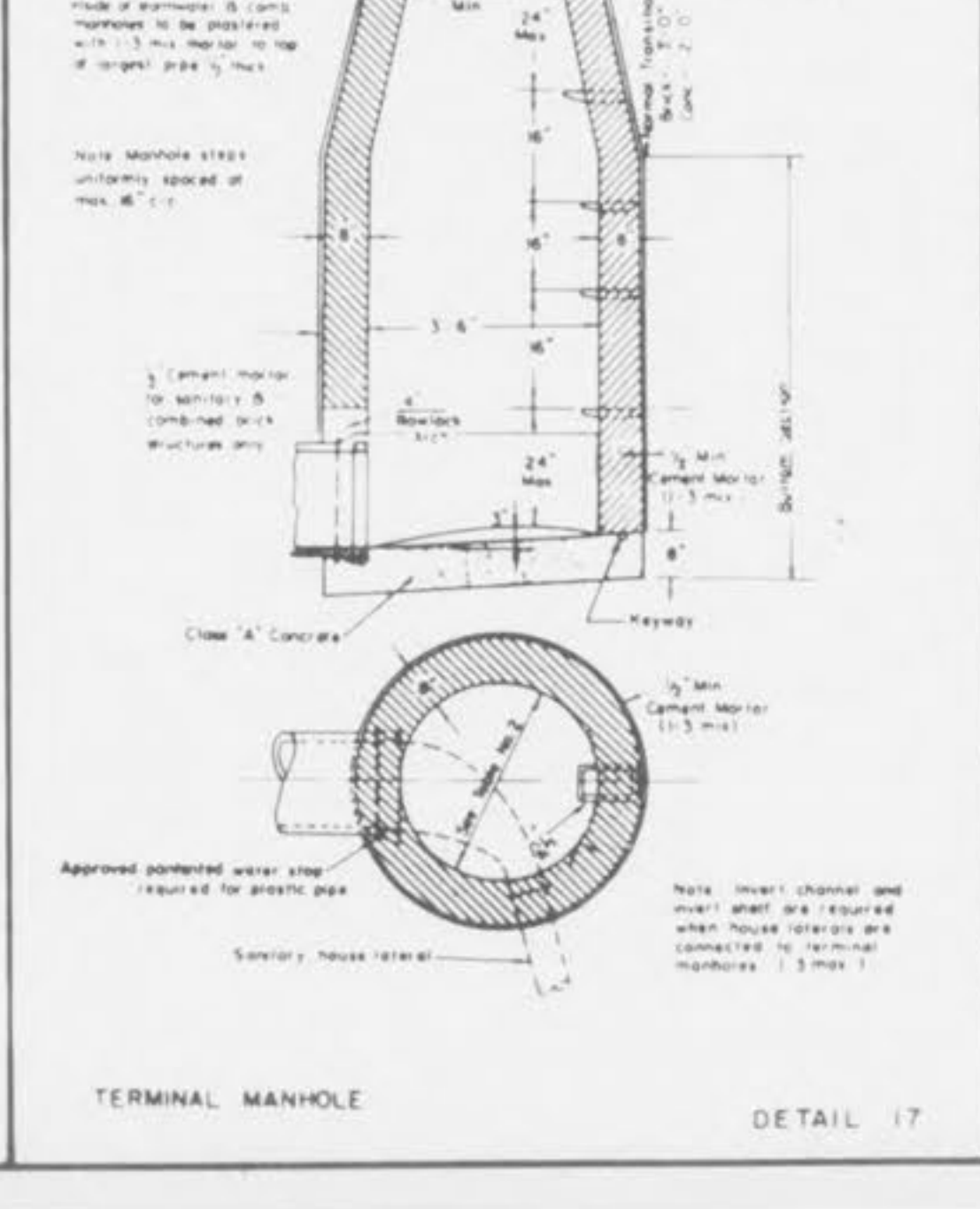
OUTSIDE FOULWATER DROP MANHOLE



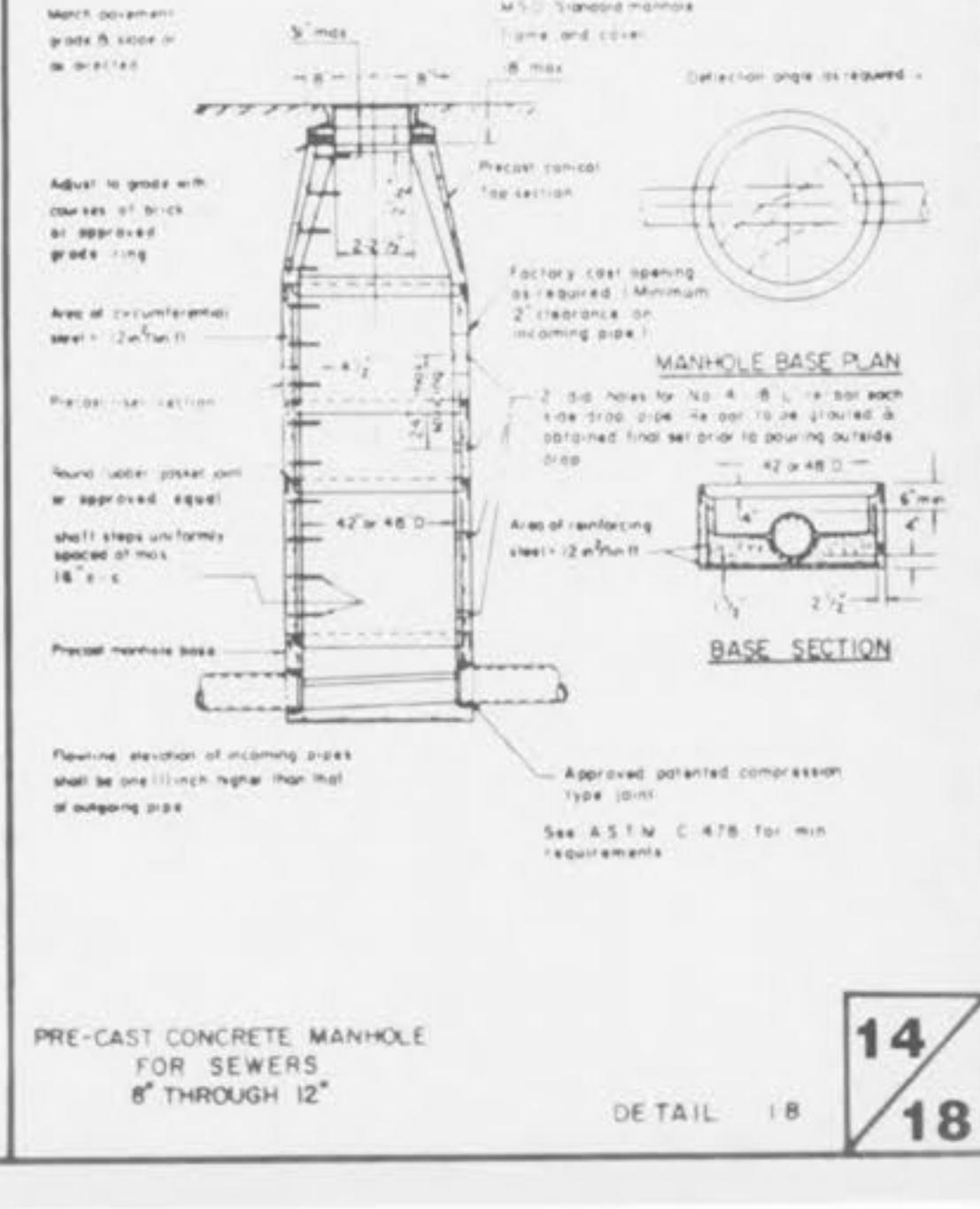
FOULWATER INSIDE DROP MANHOLE FOR PLASTIC PIPE



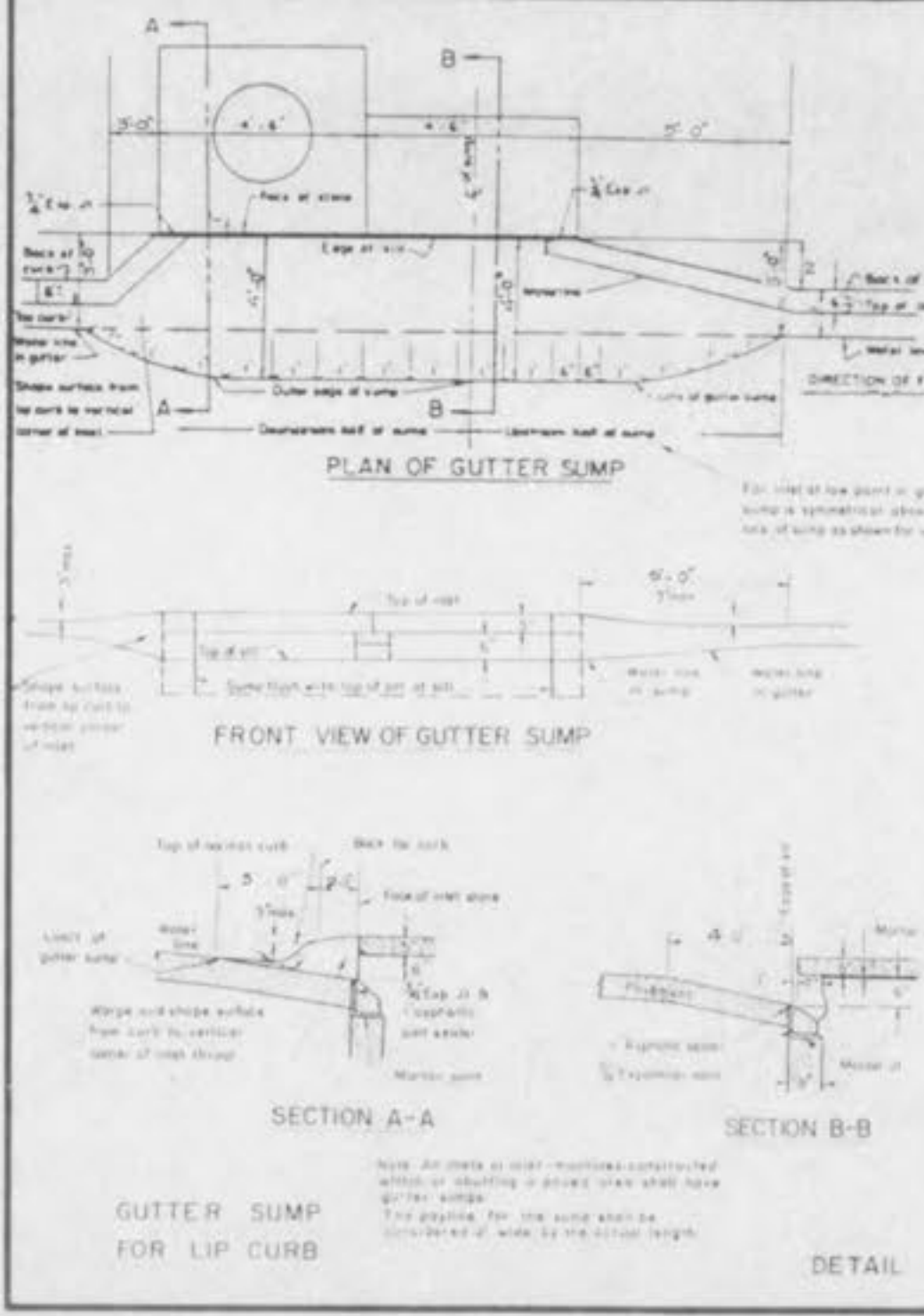
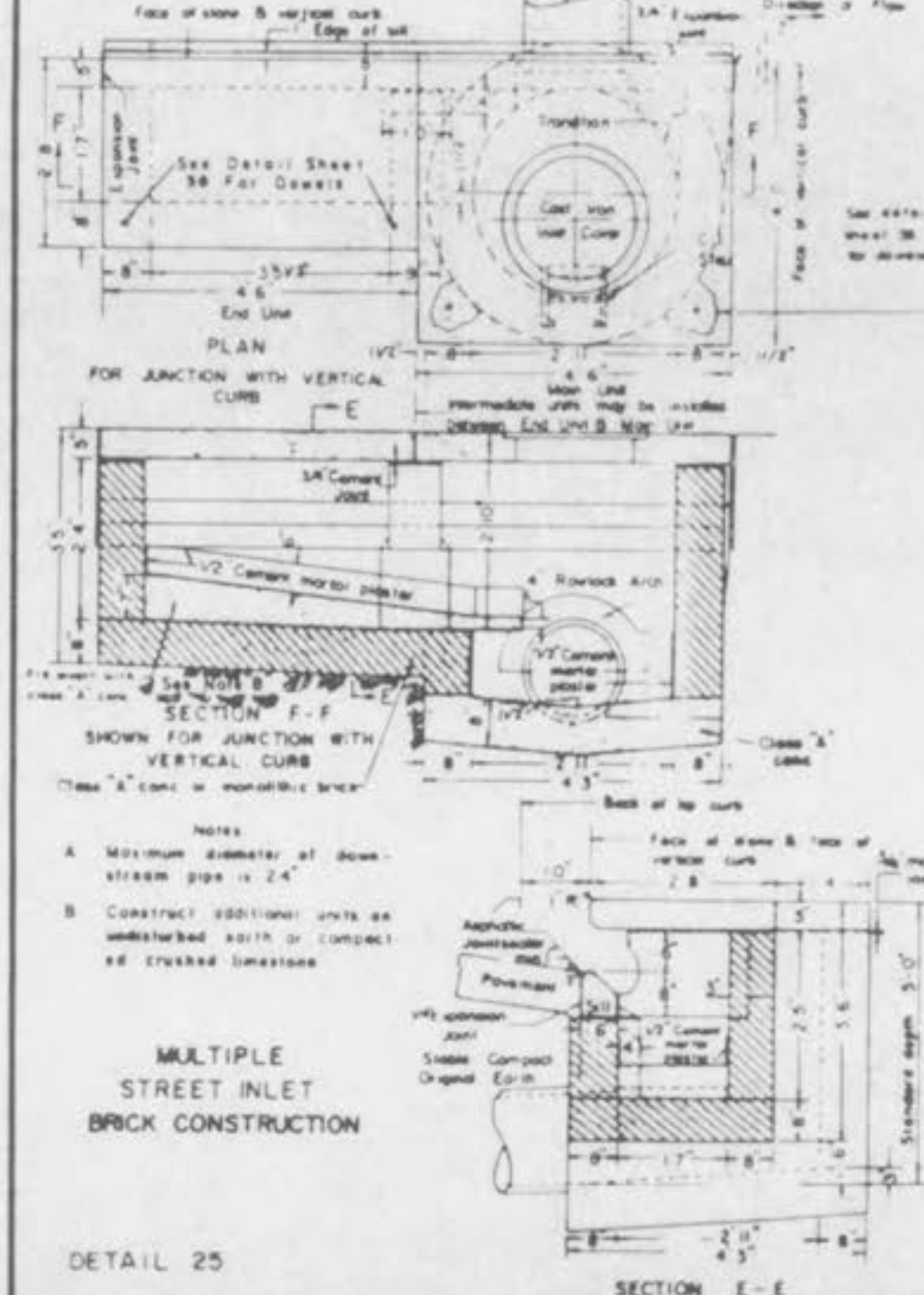
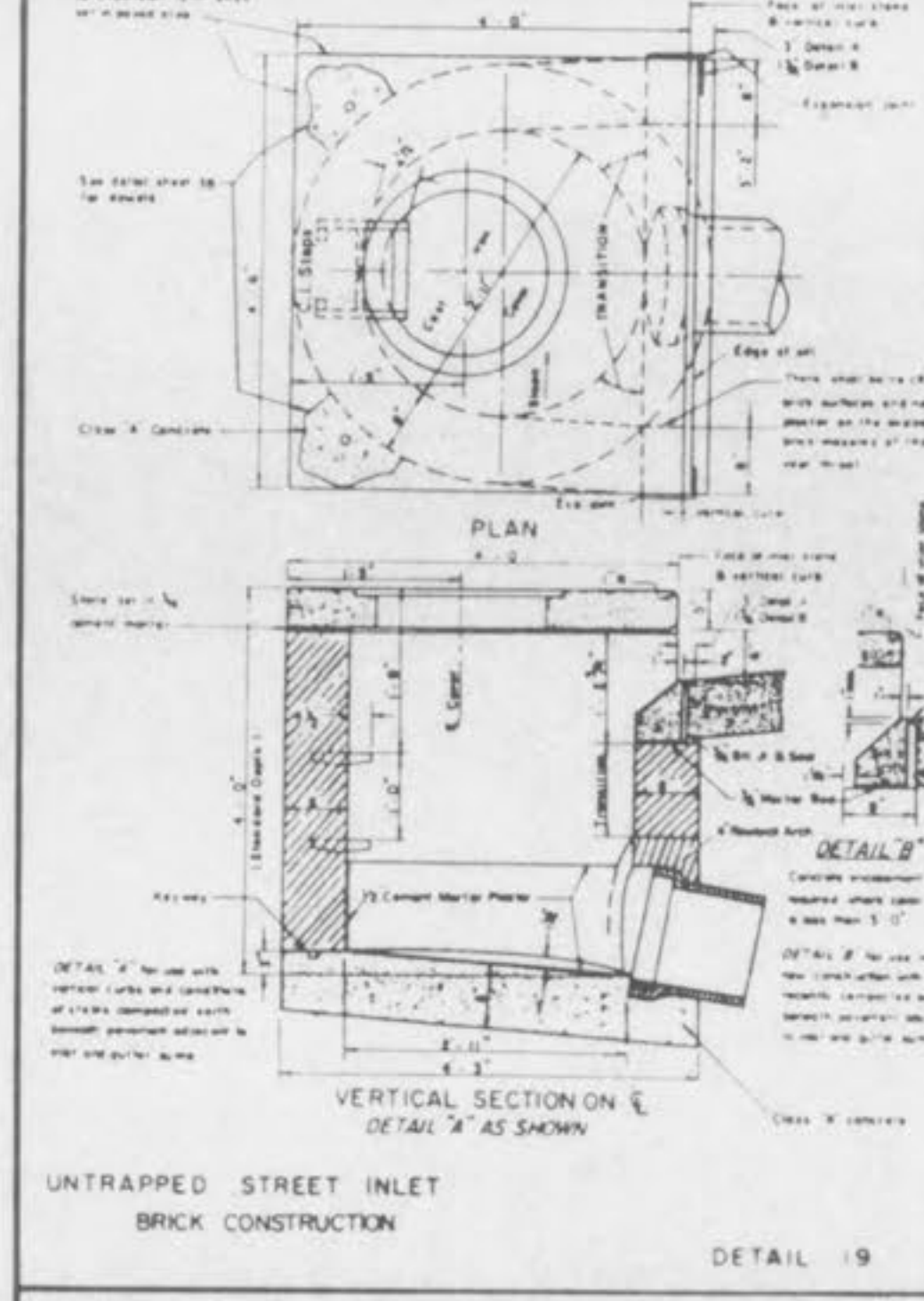
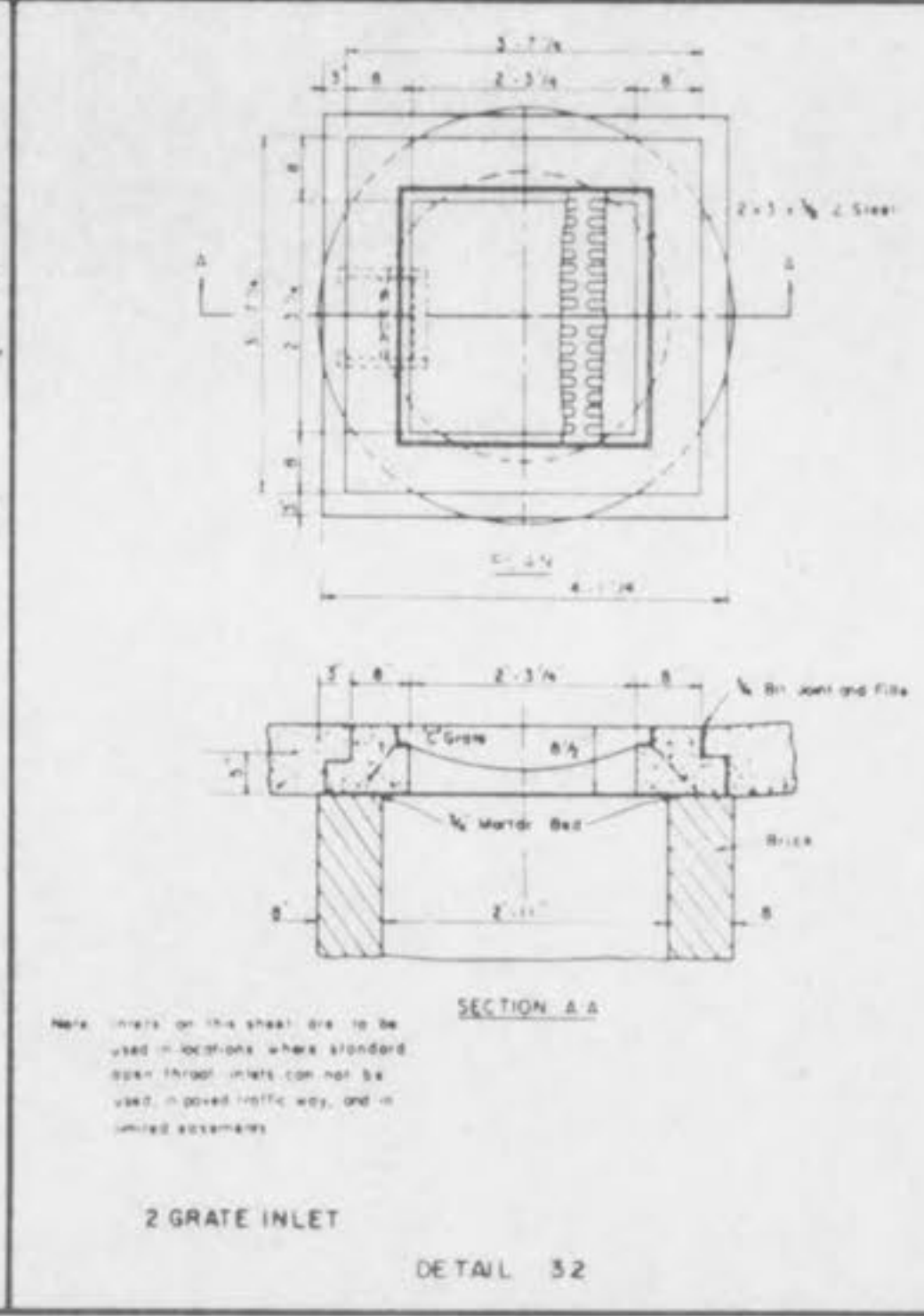
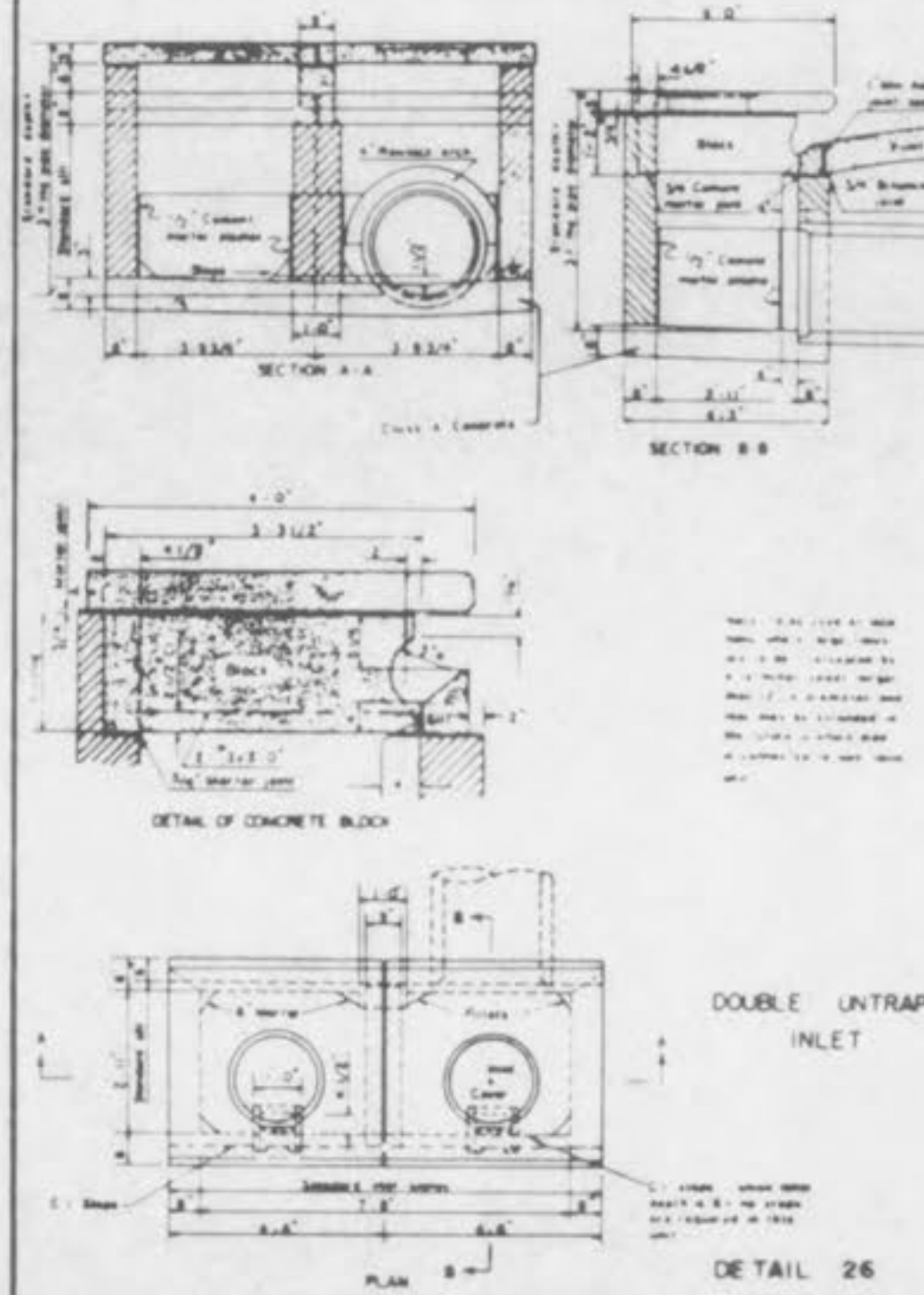
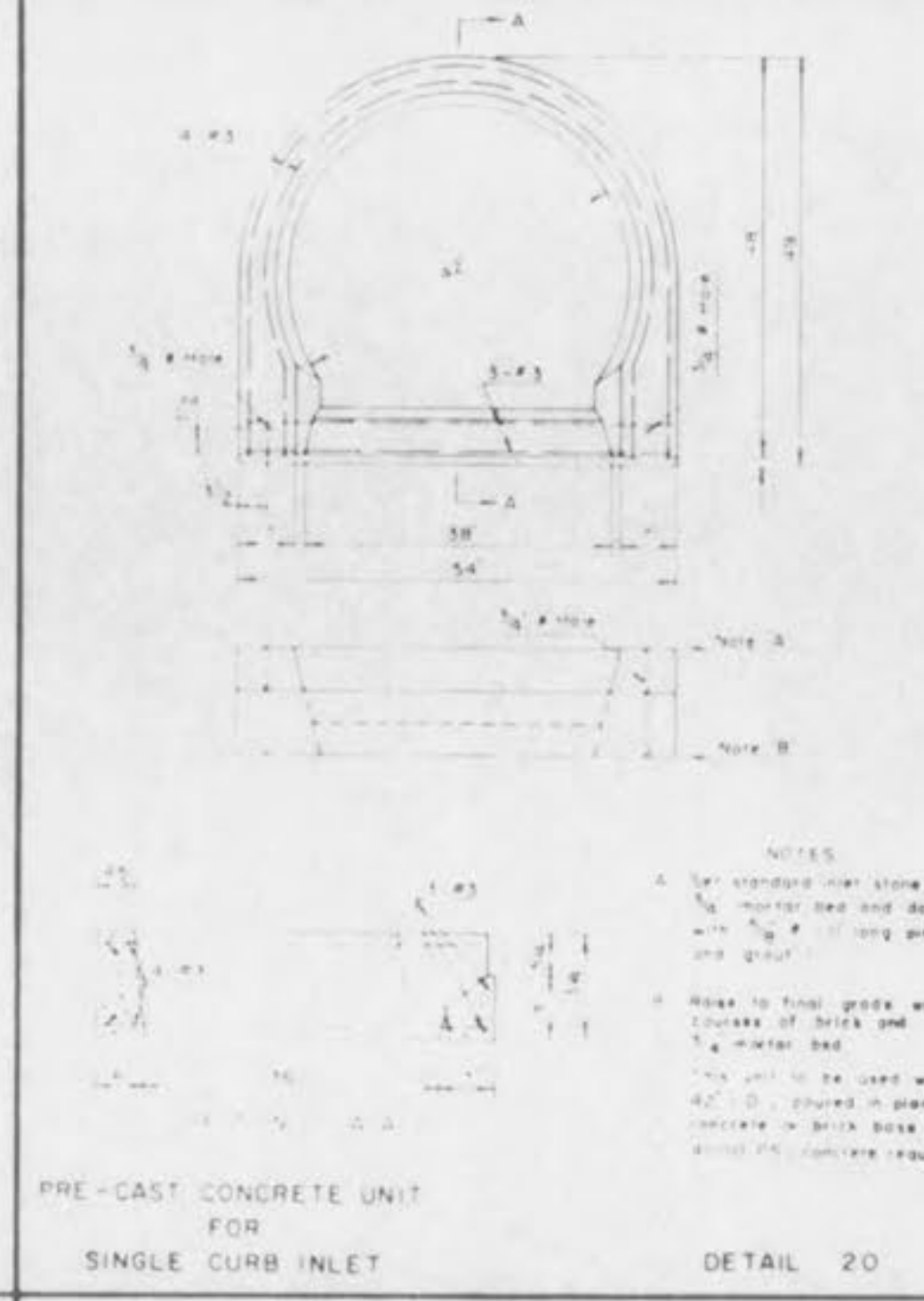
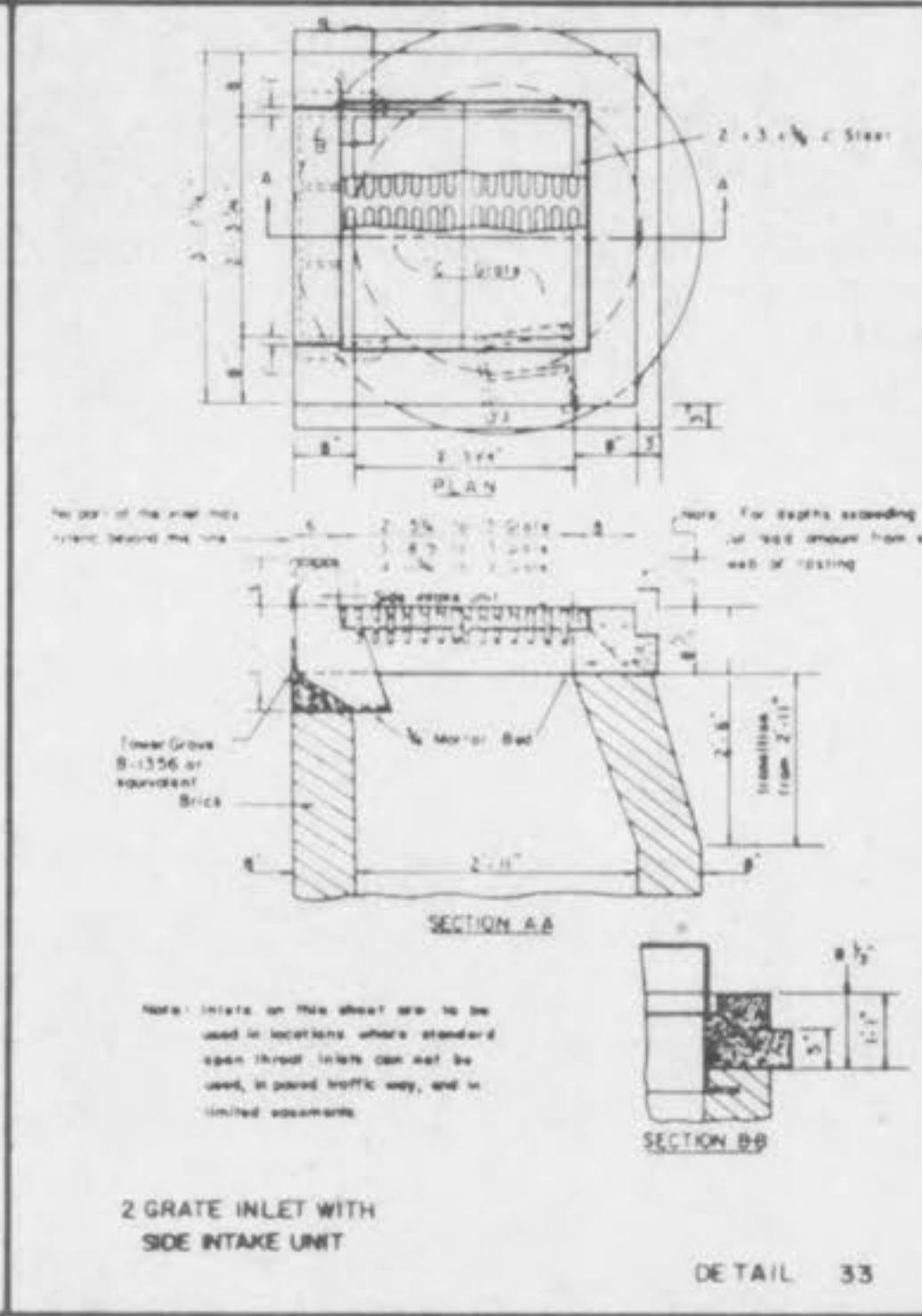
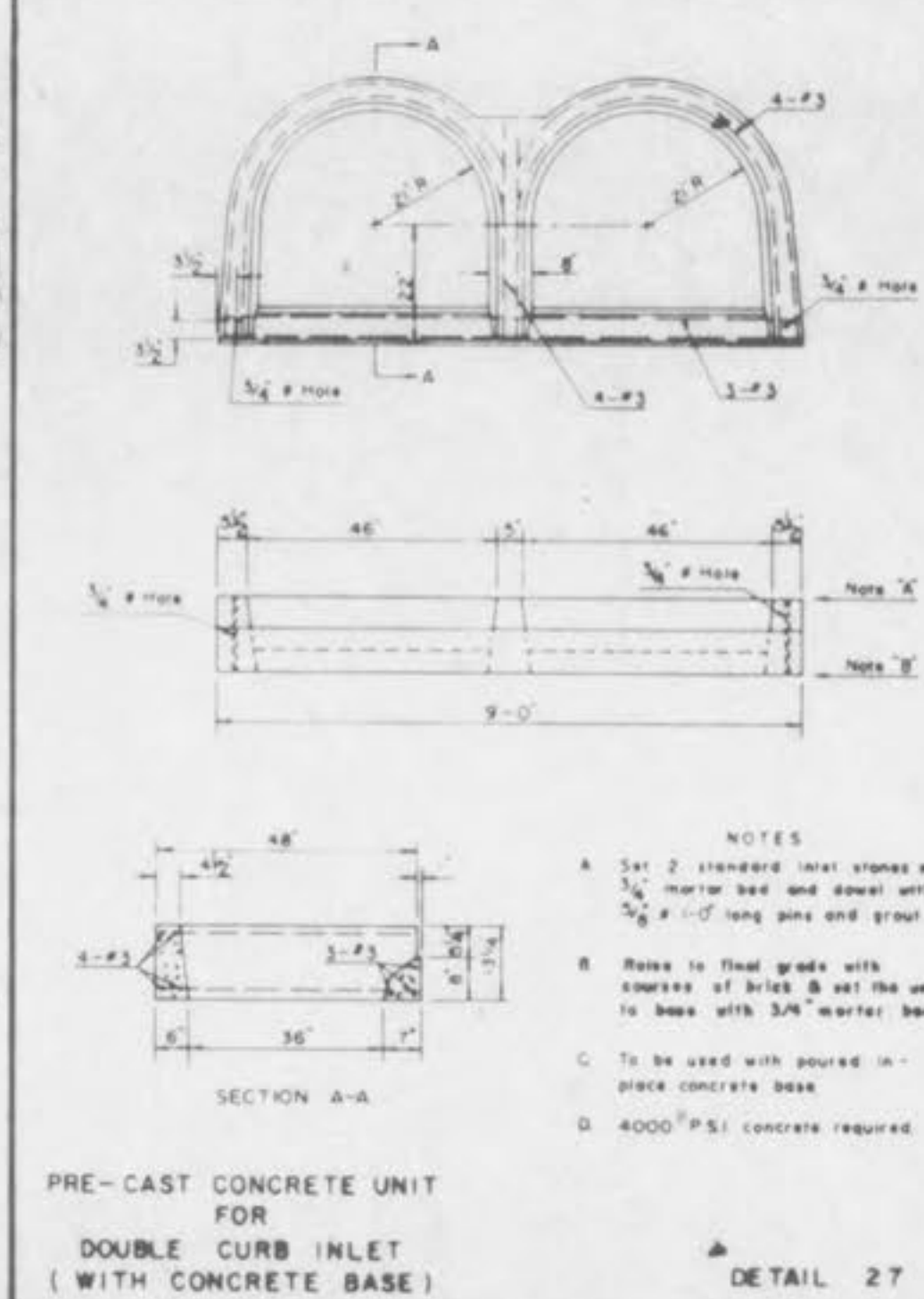
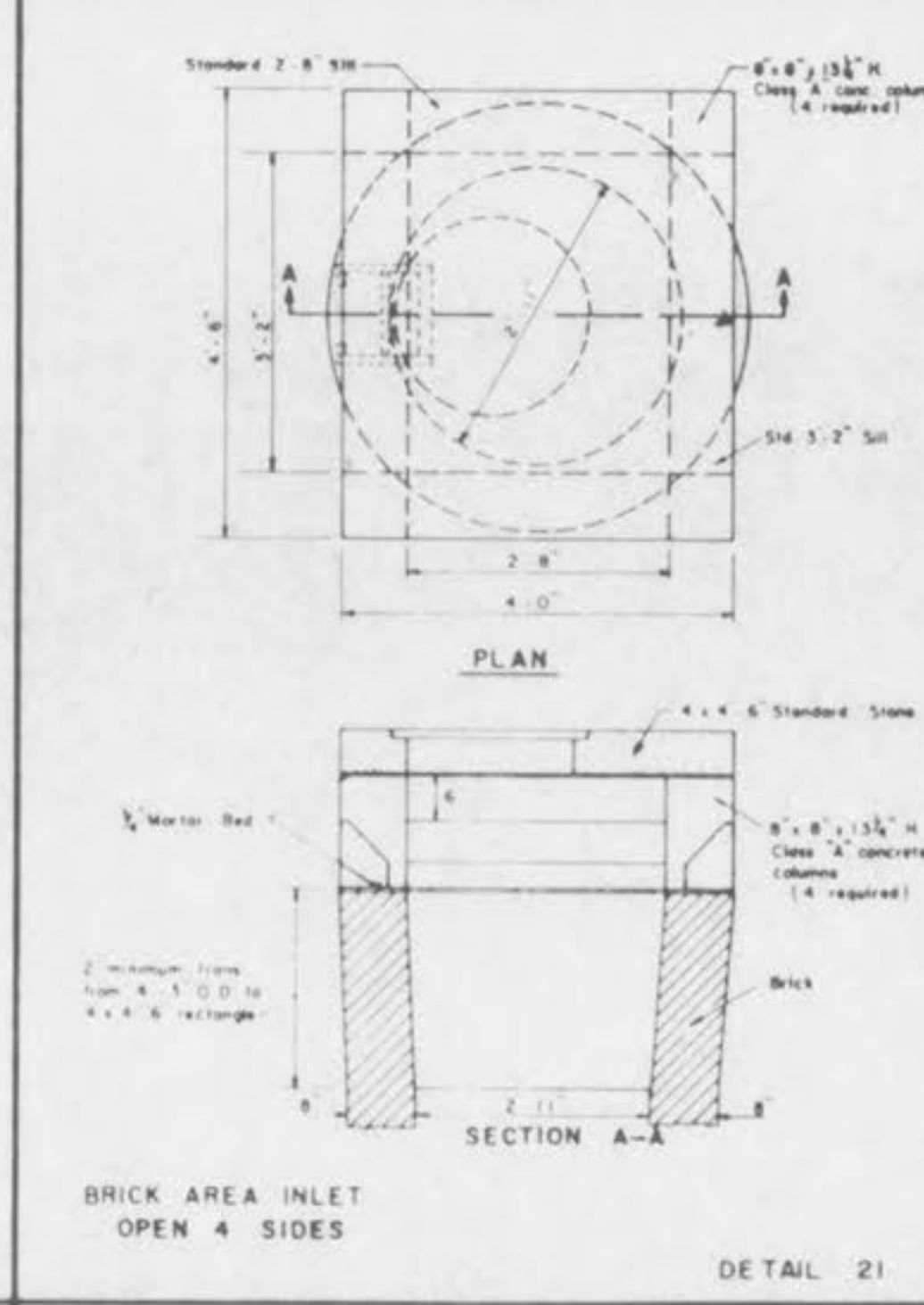
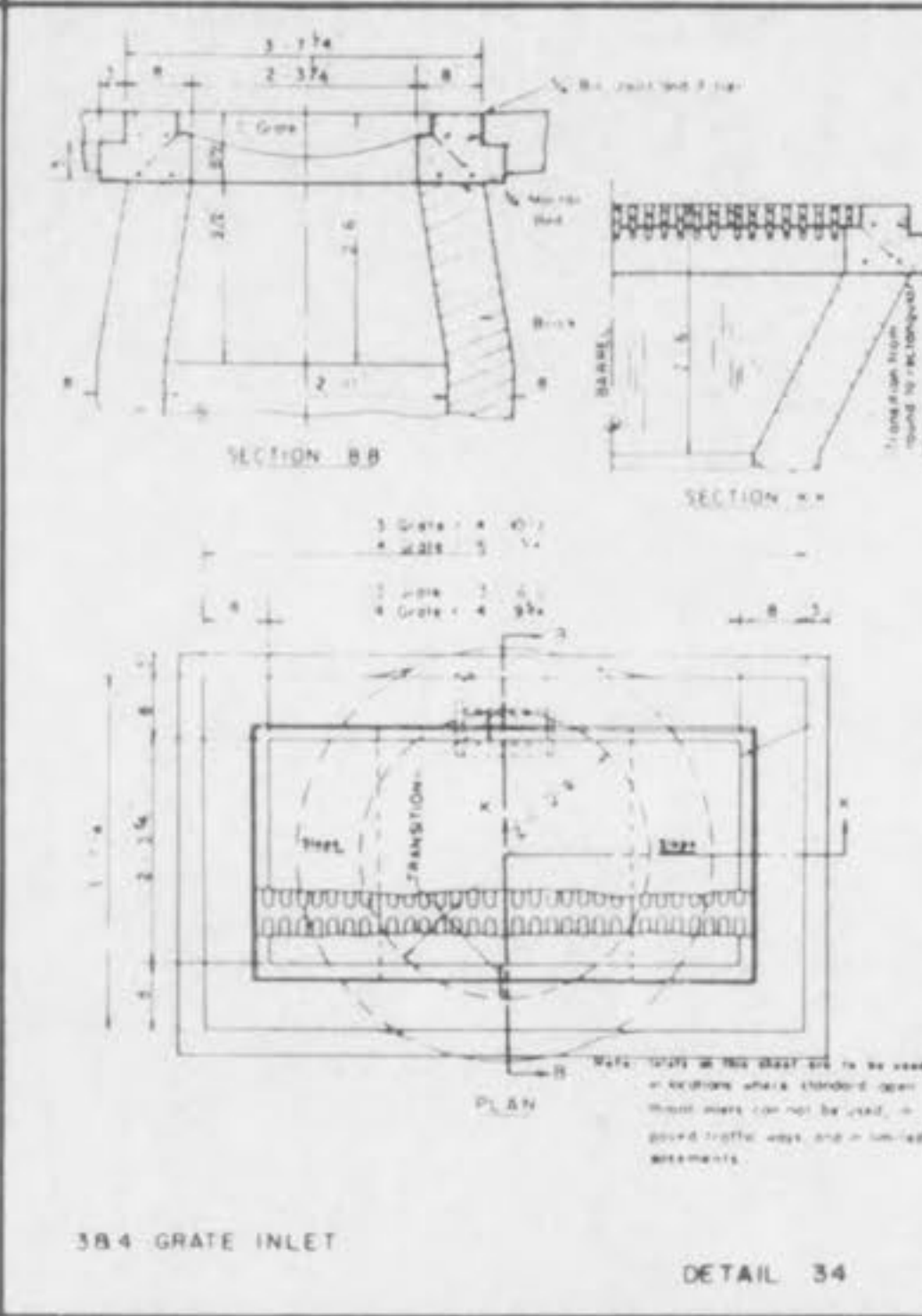
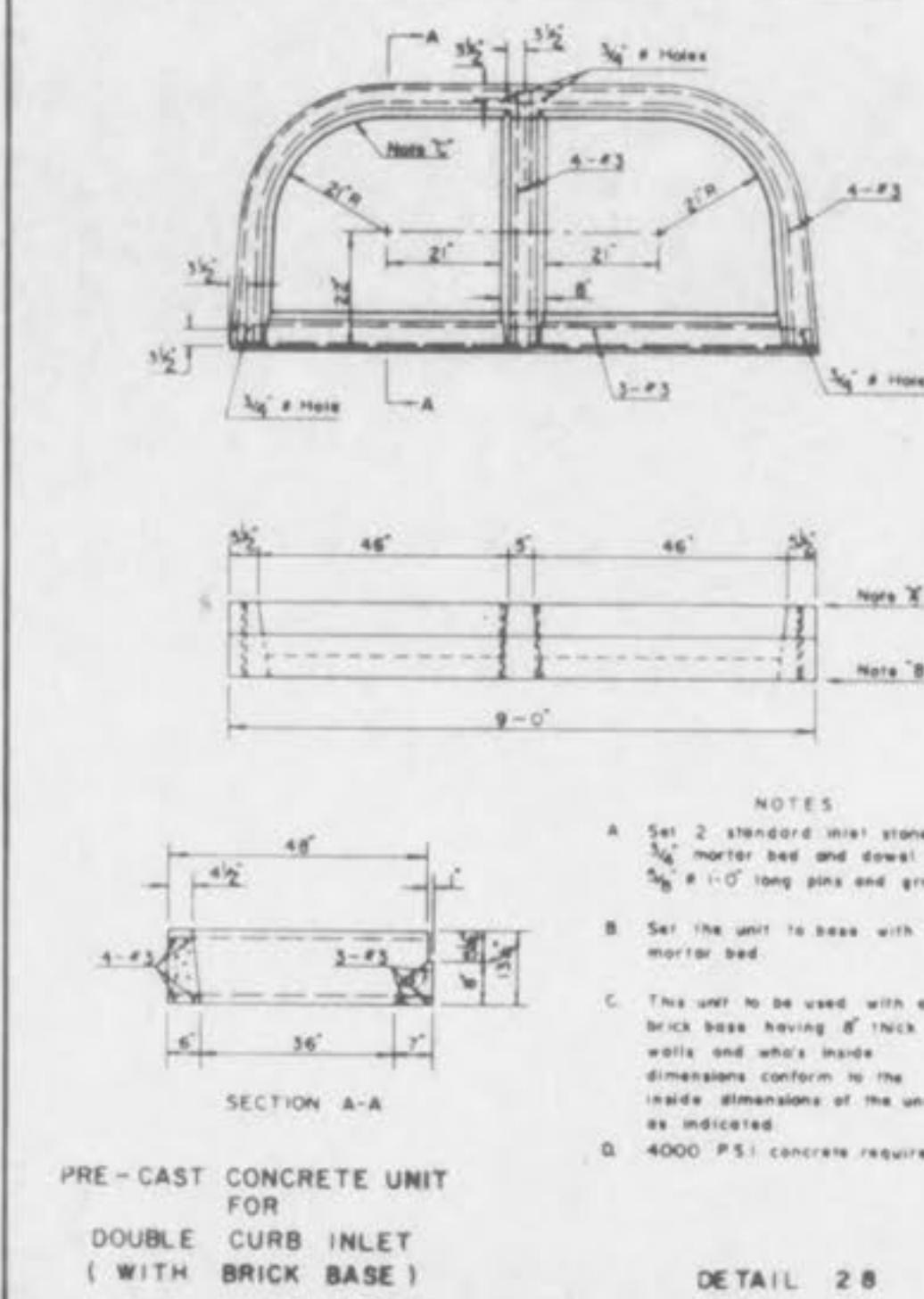
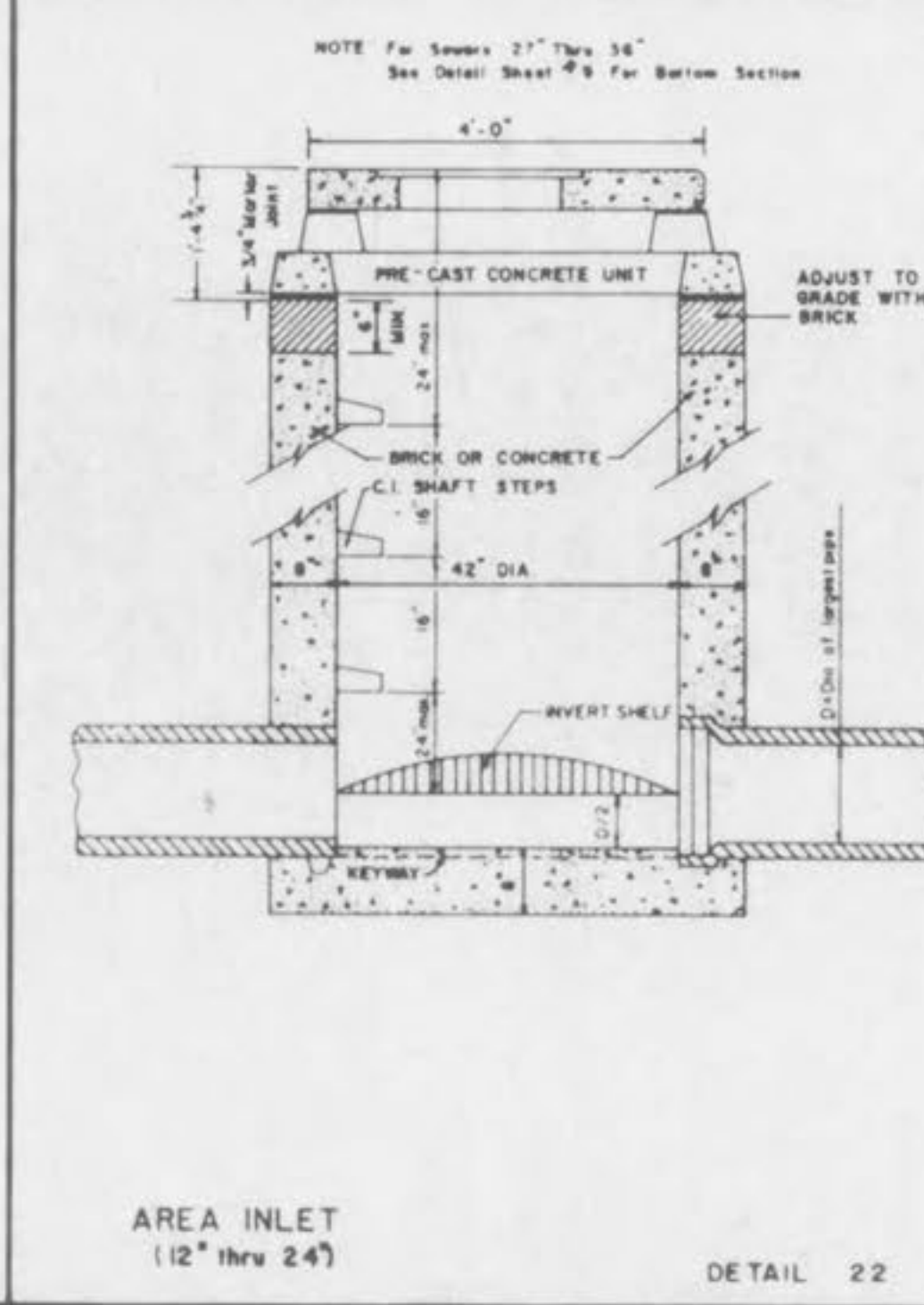
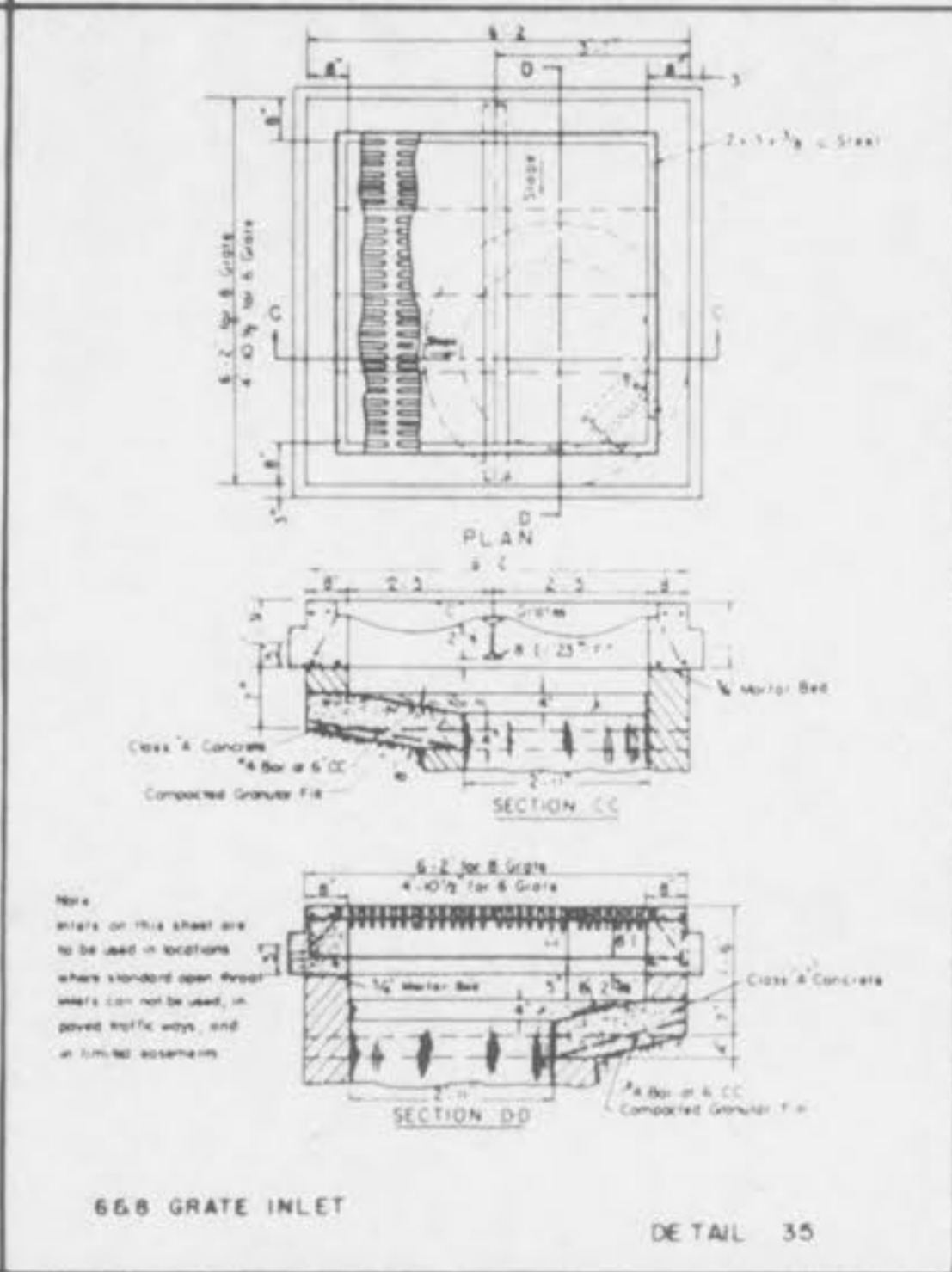
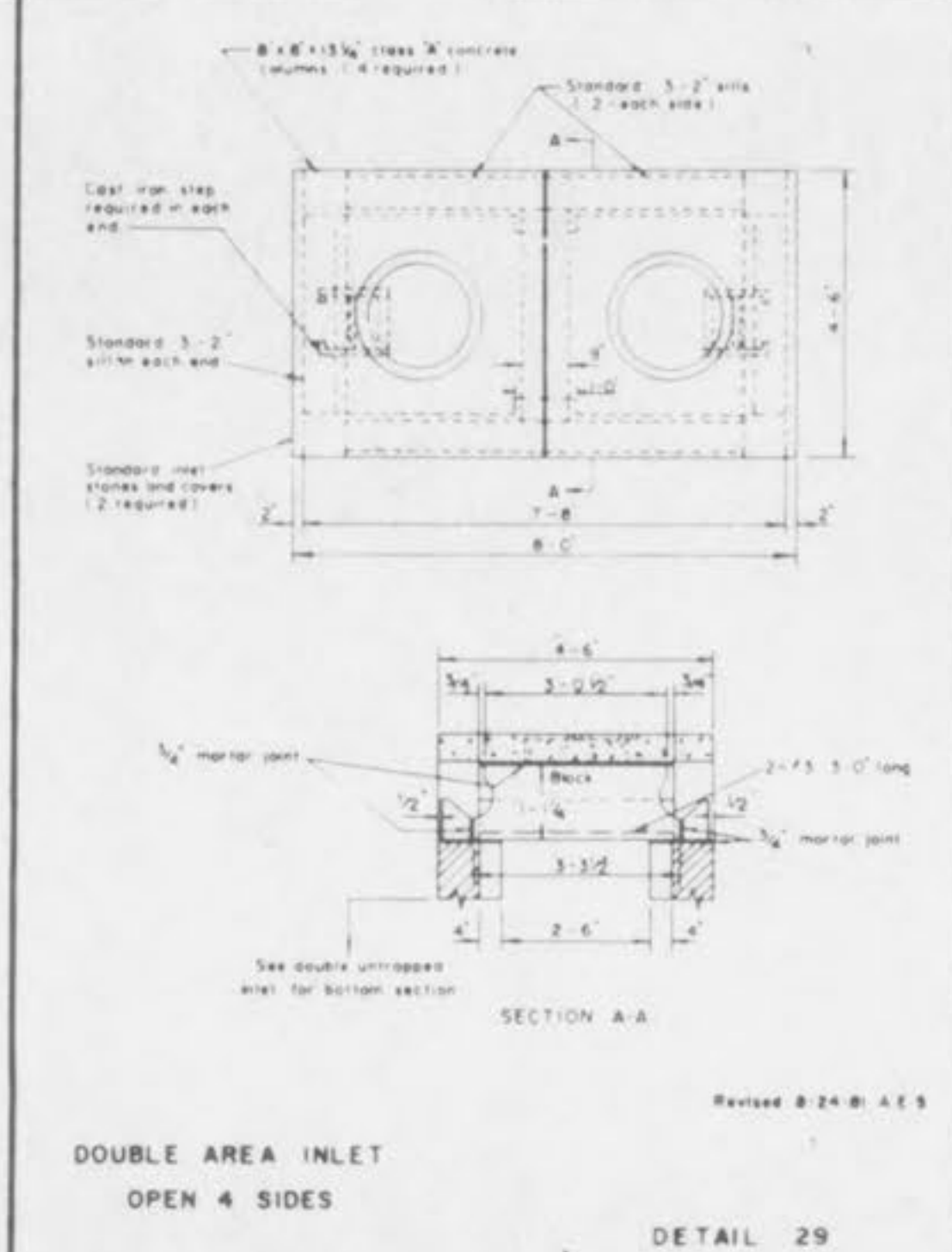
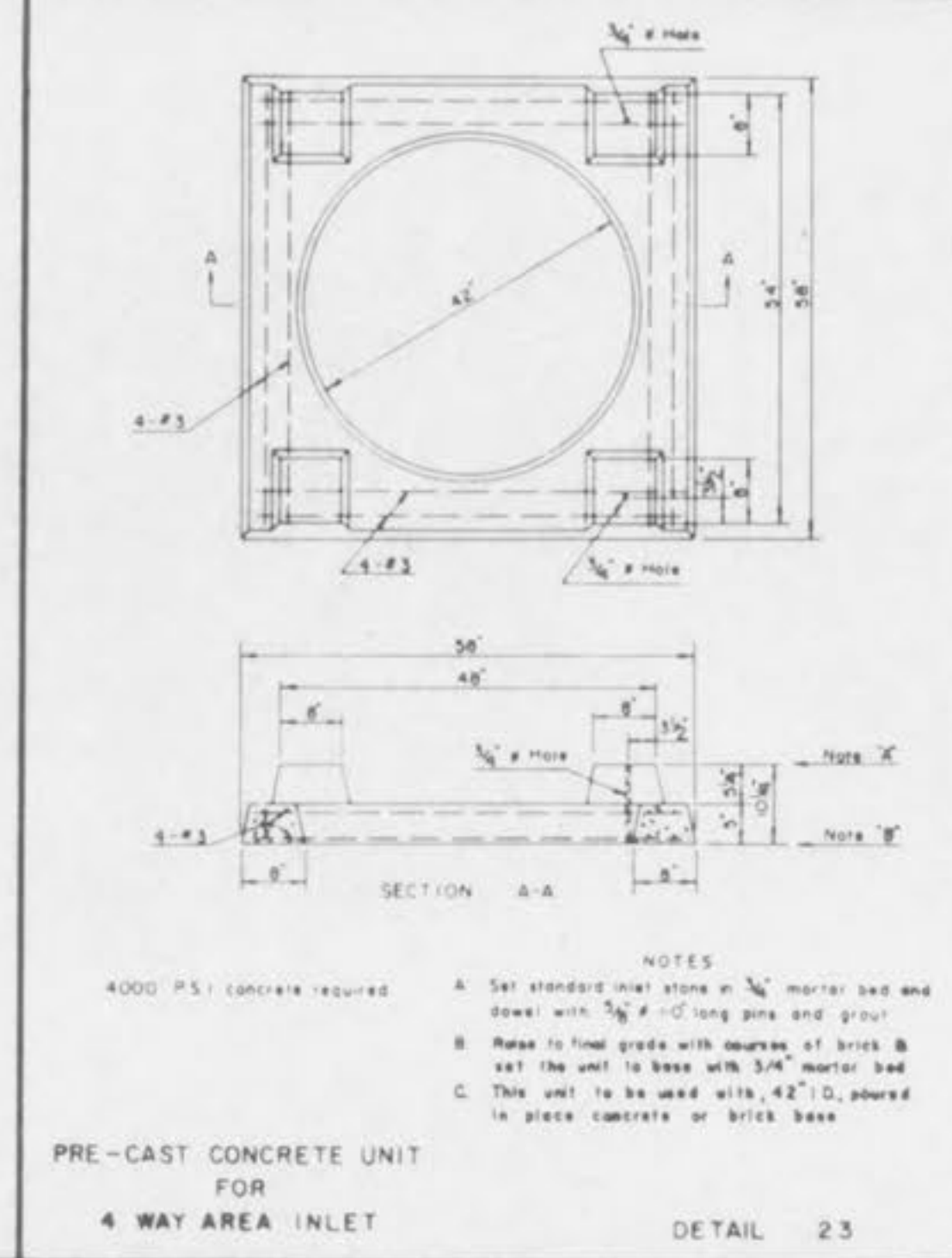
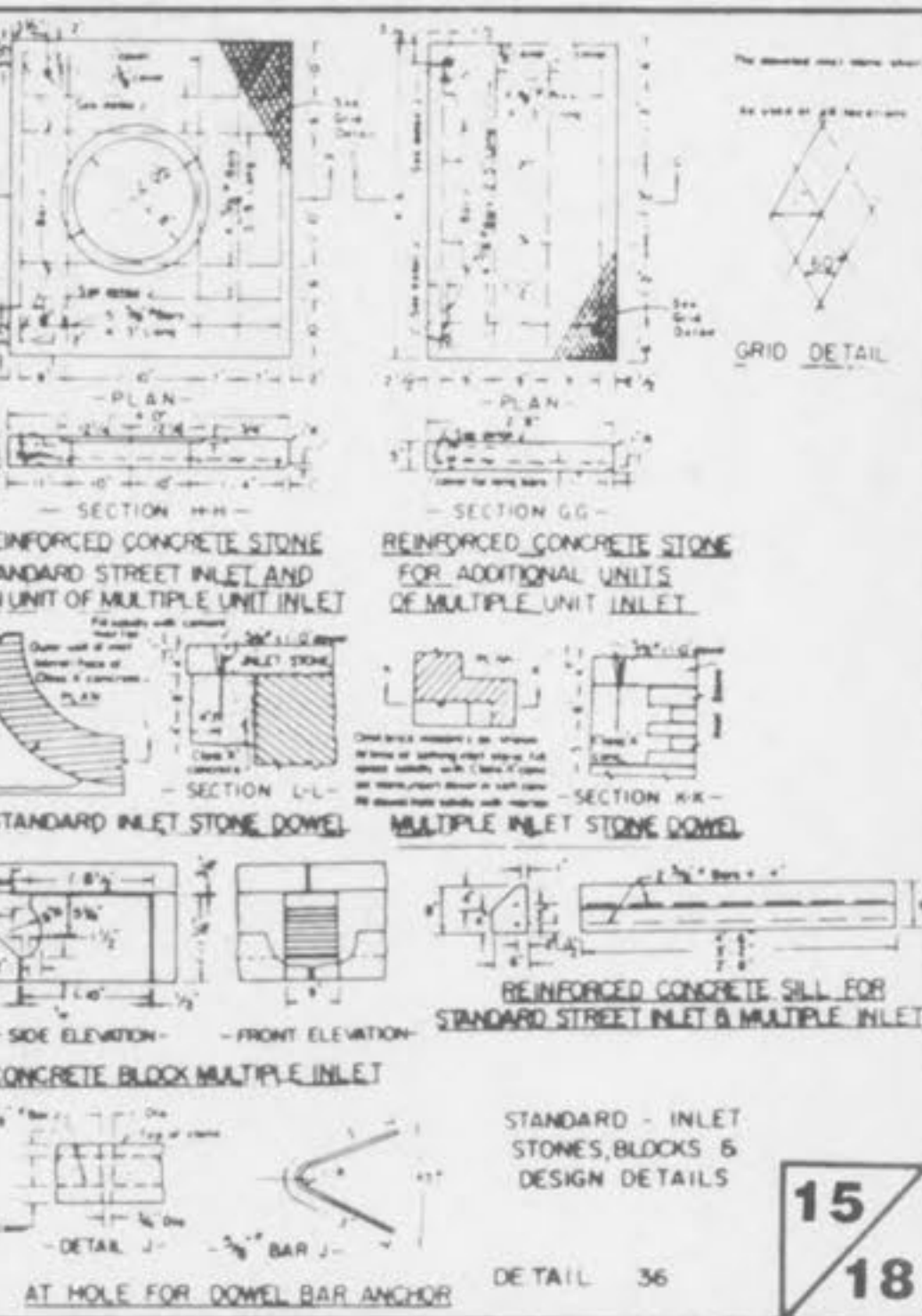
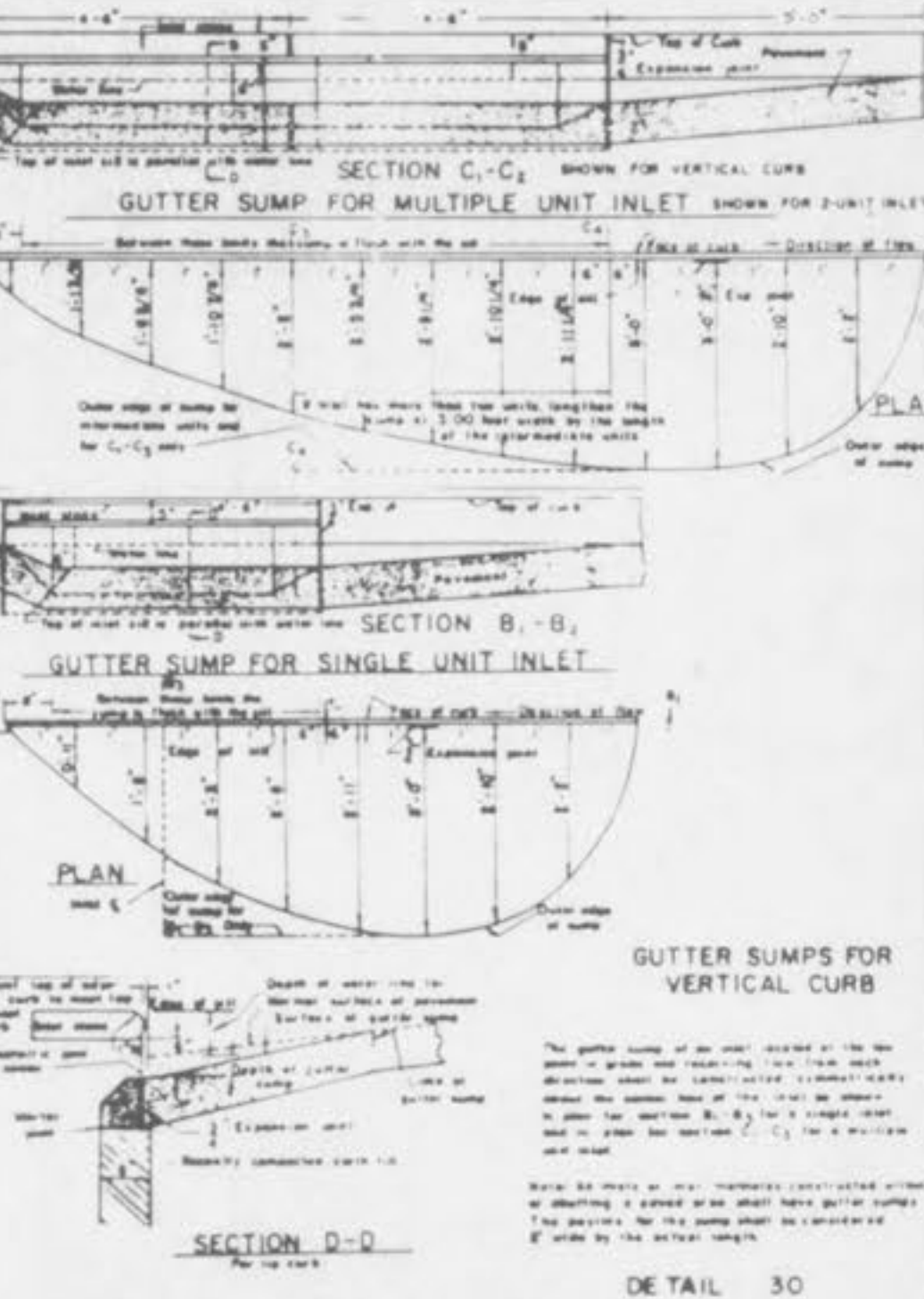
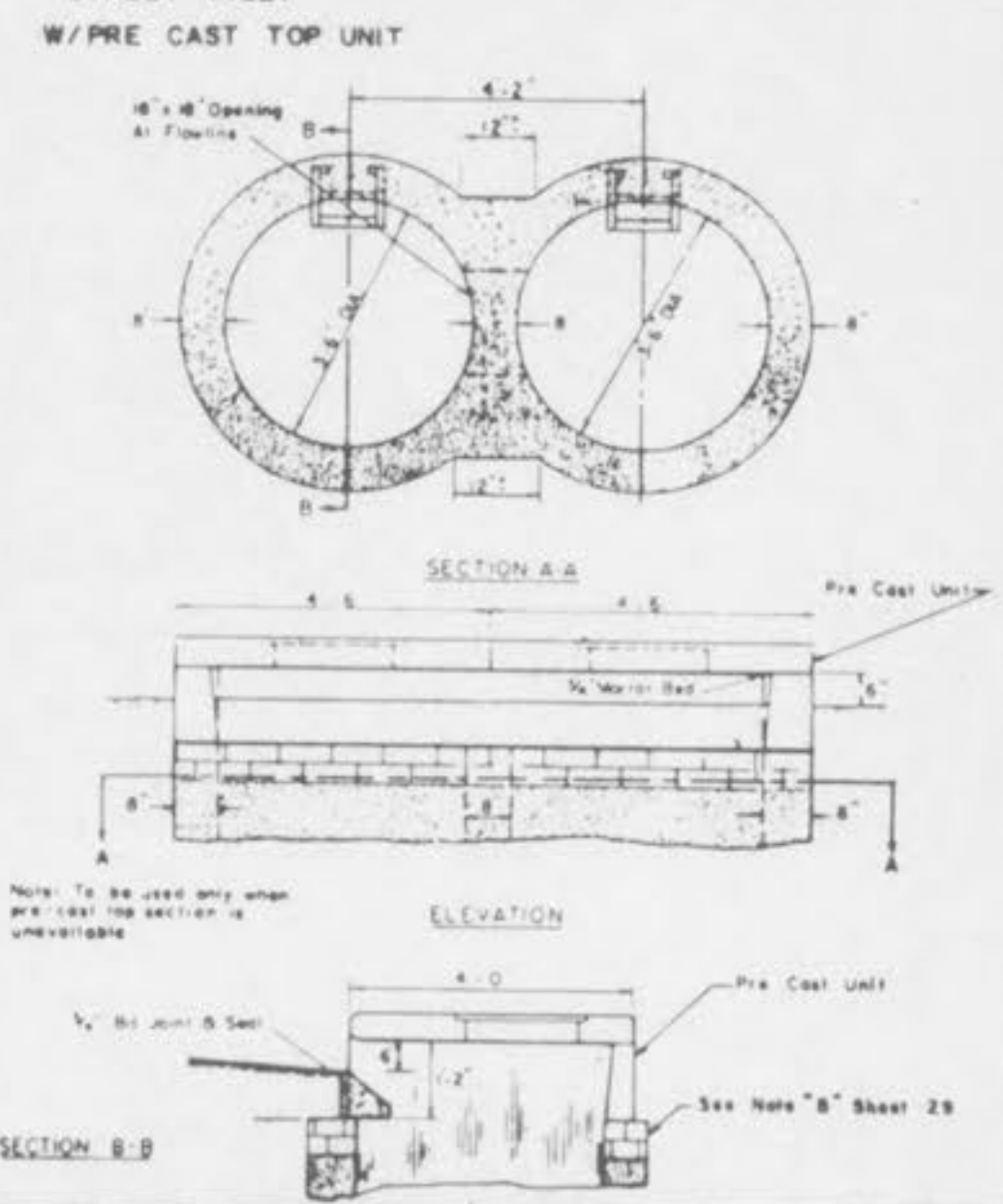
INSIDE DROP 18" THRU 24" DIA PIPE

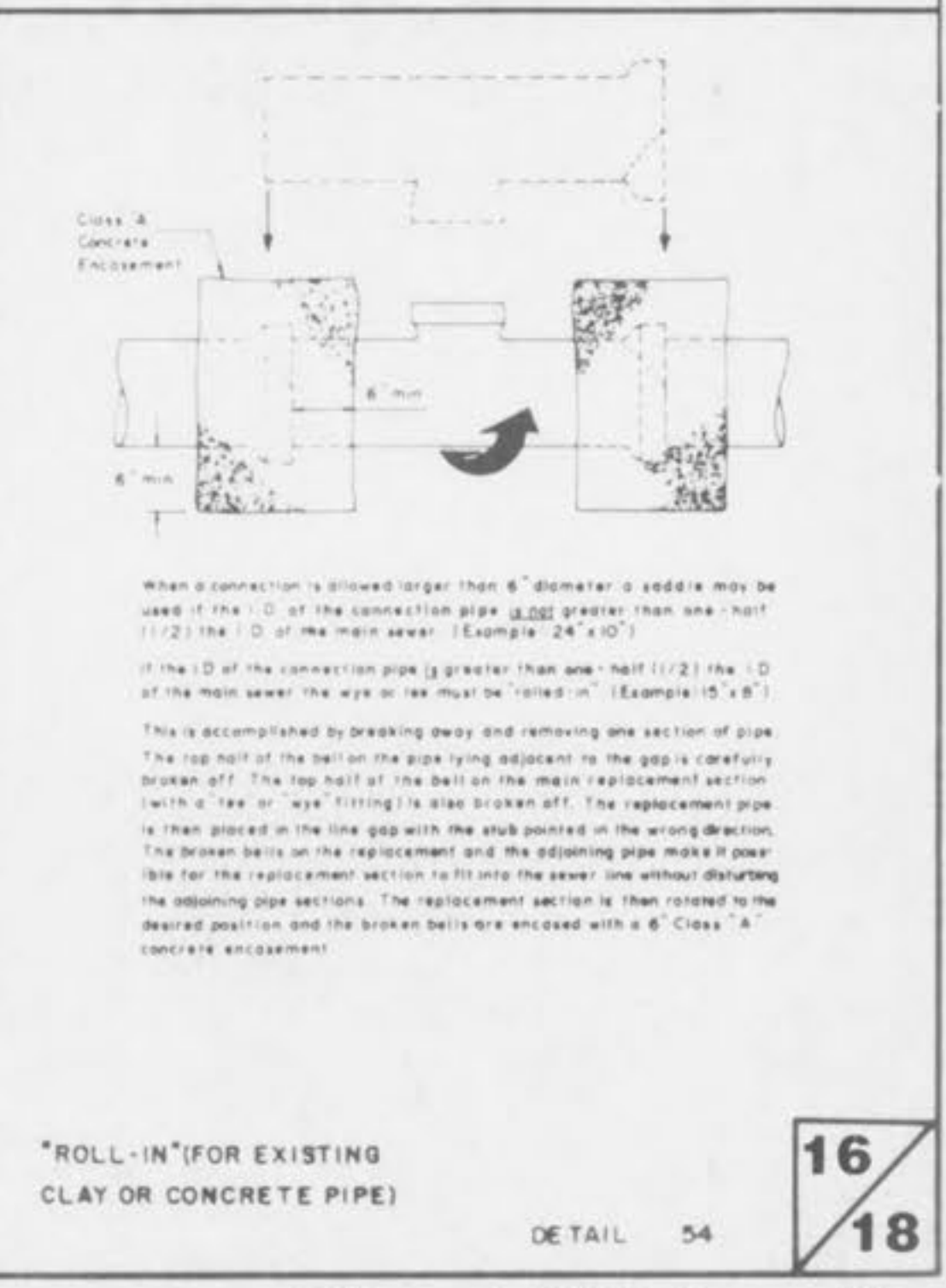
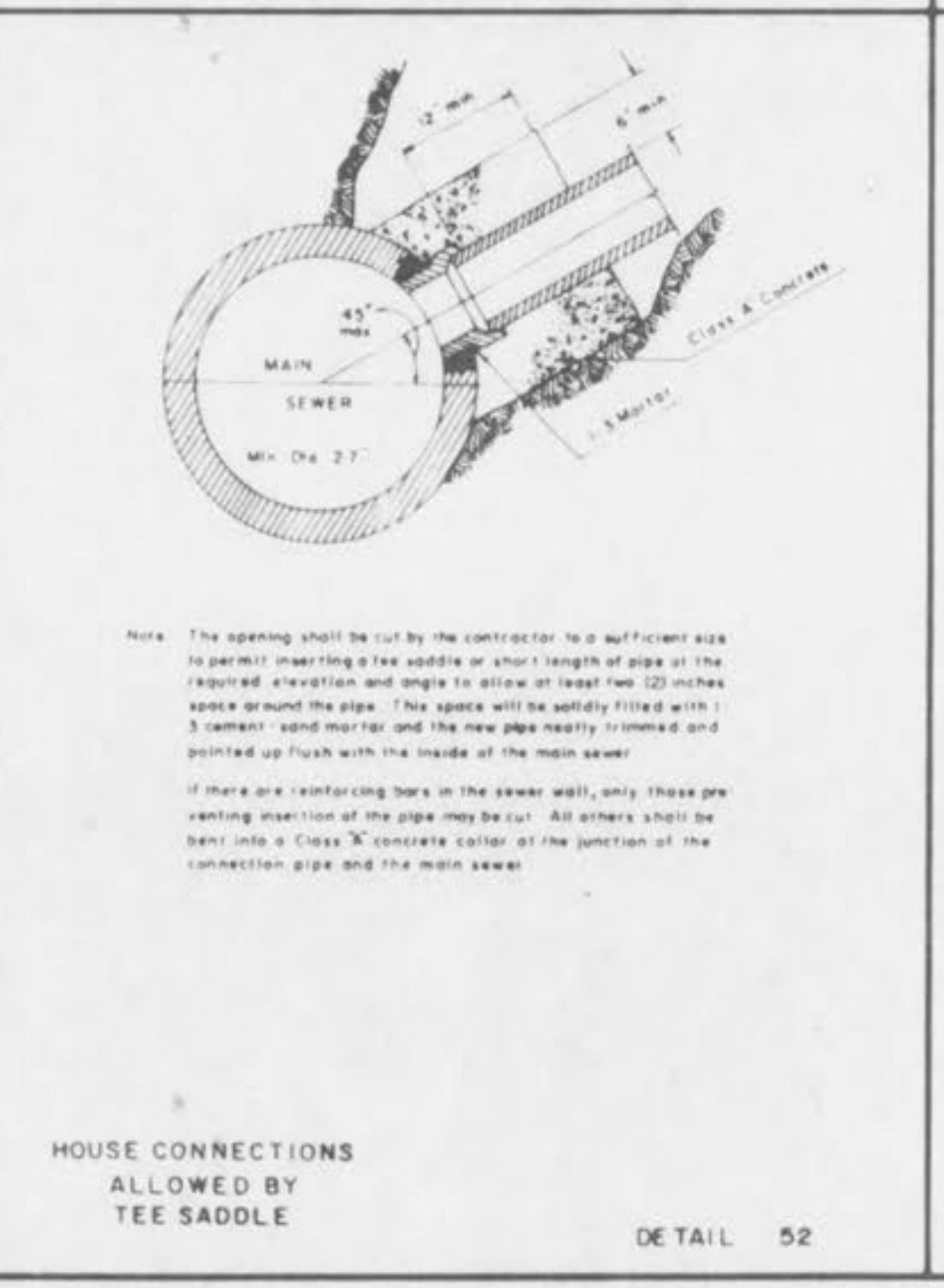
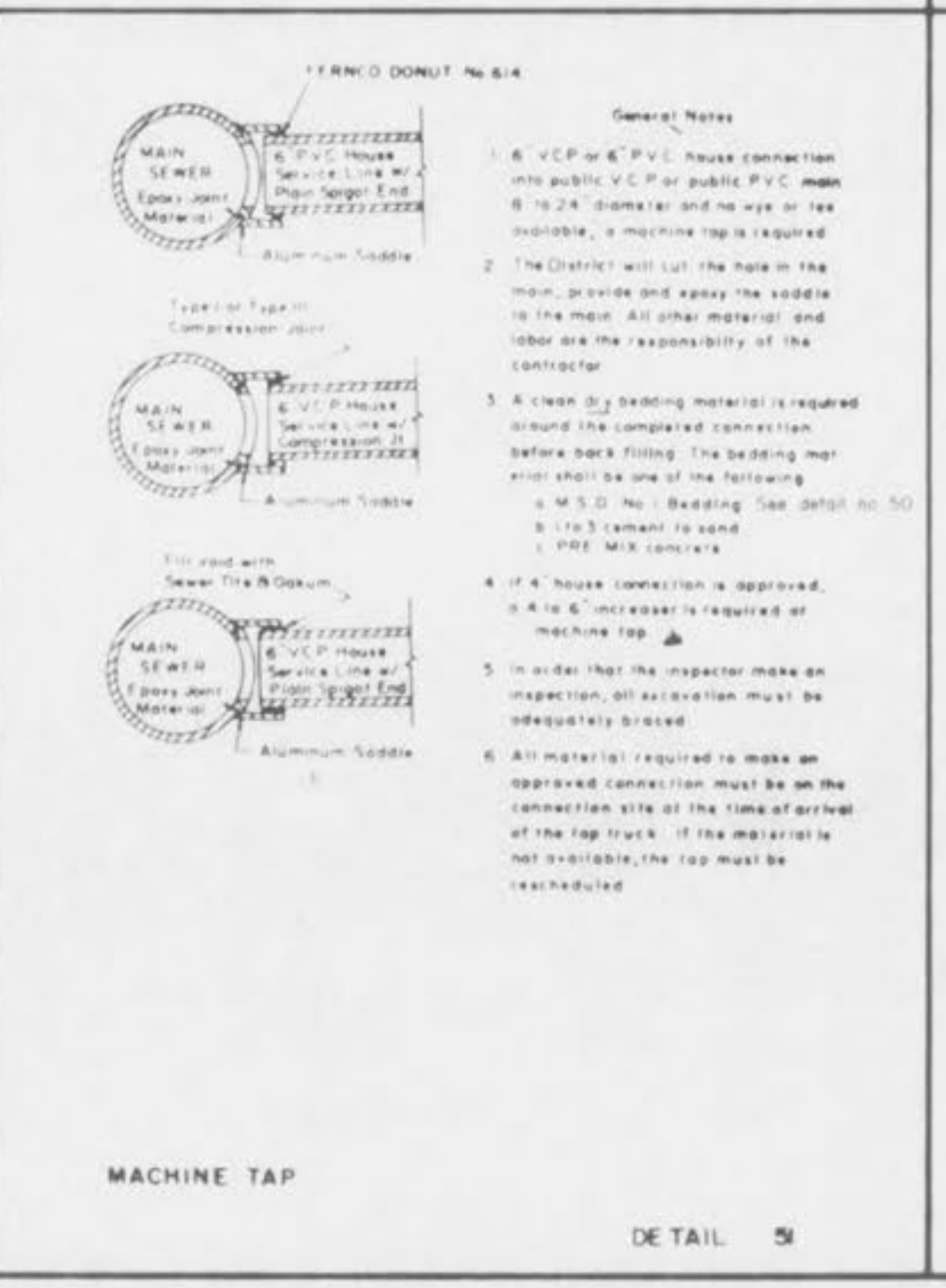
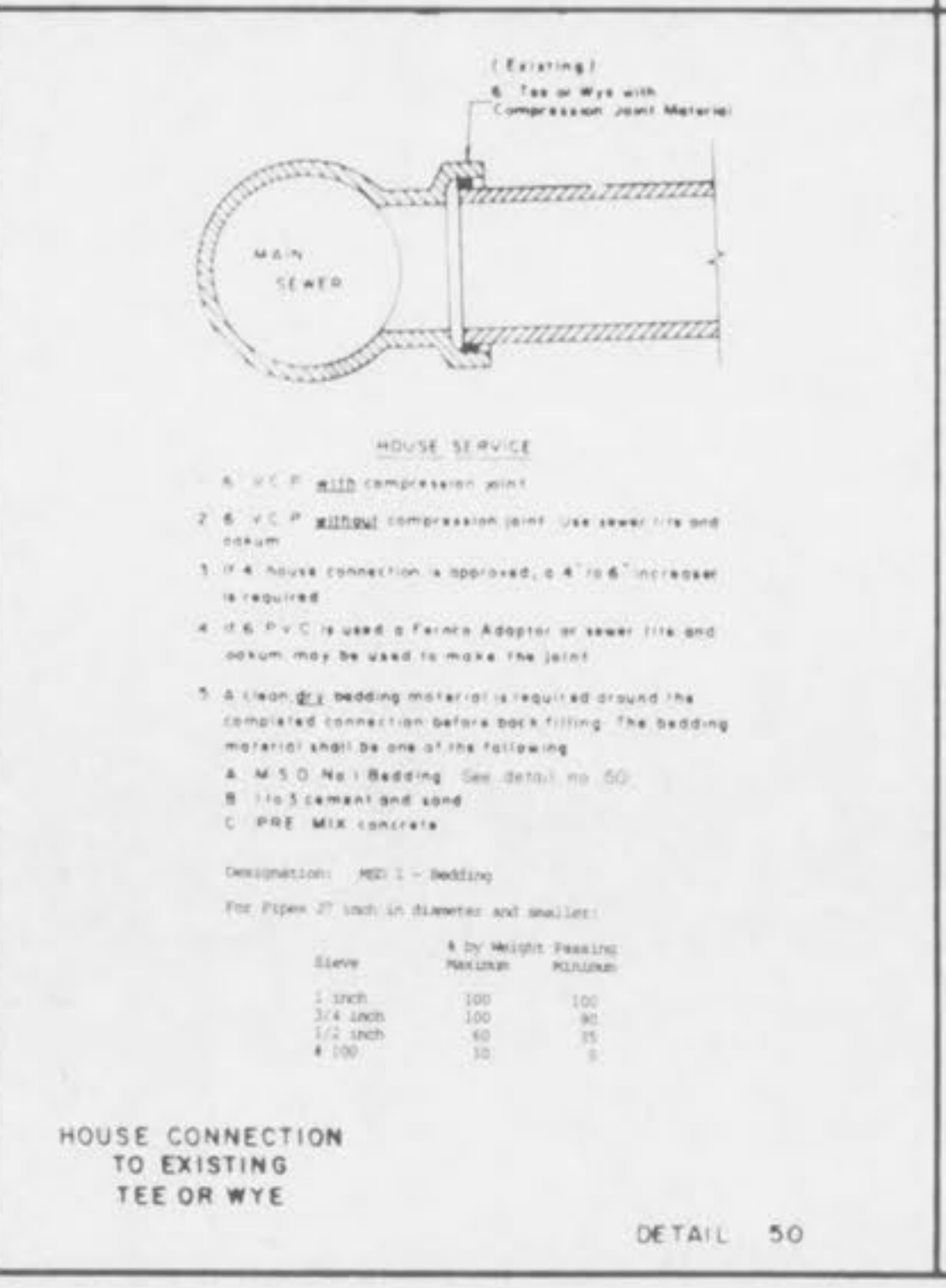
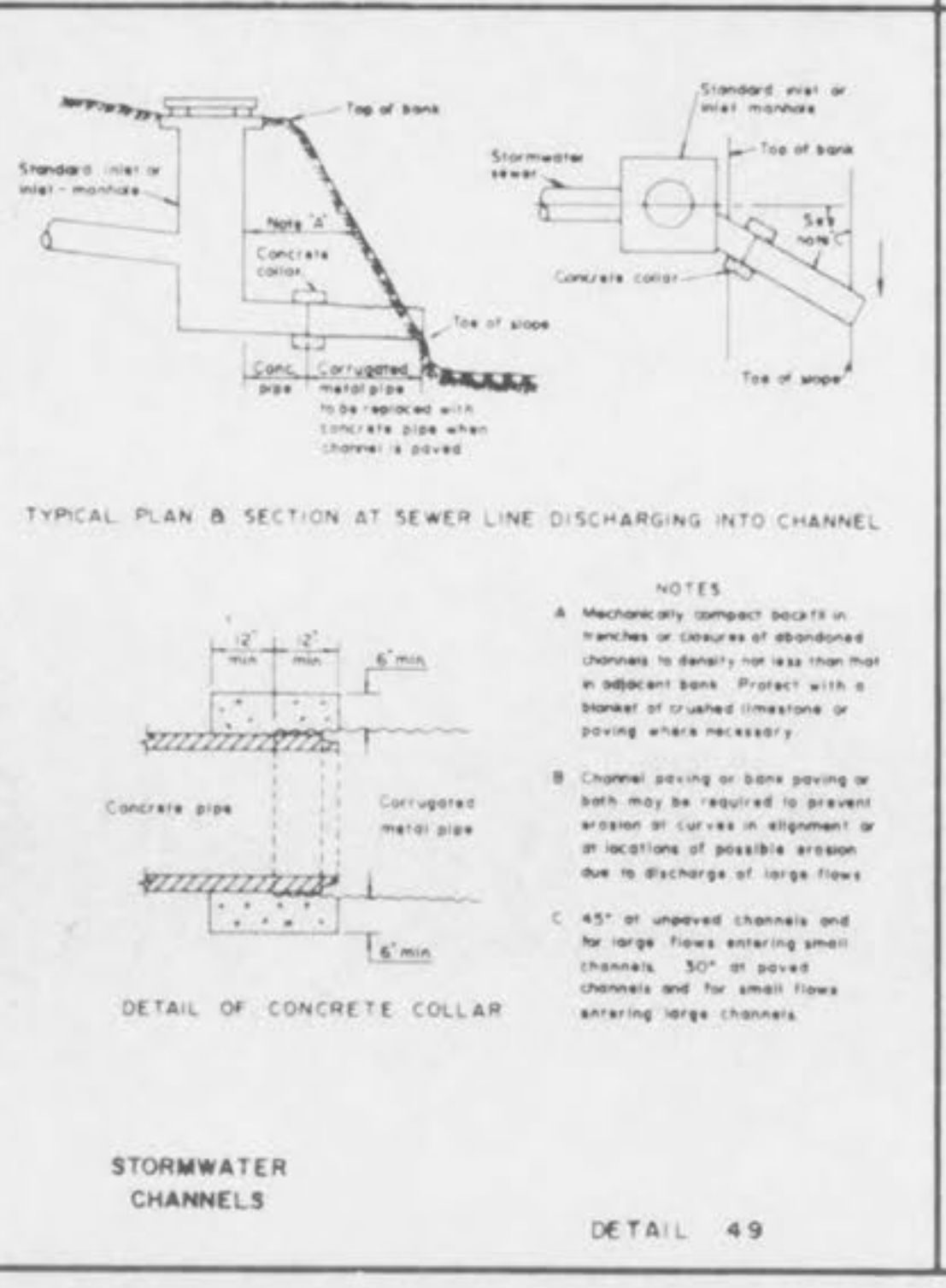
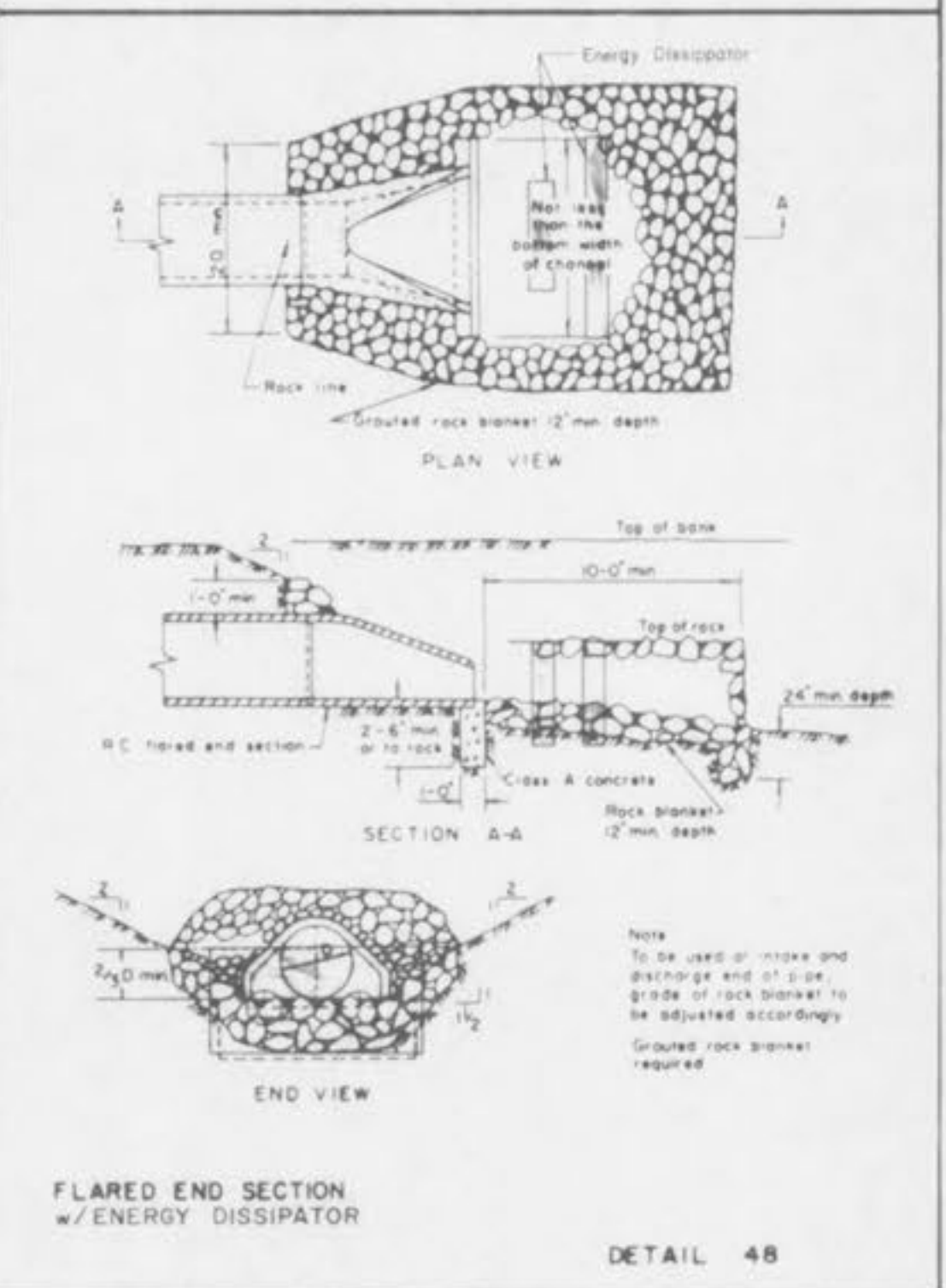
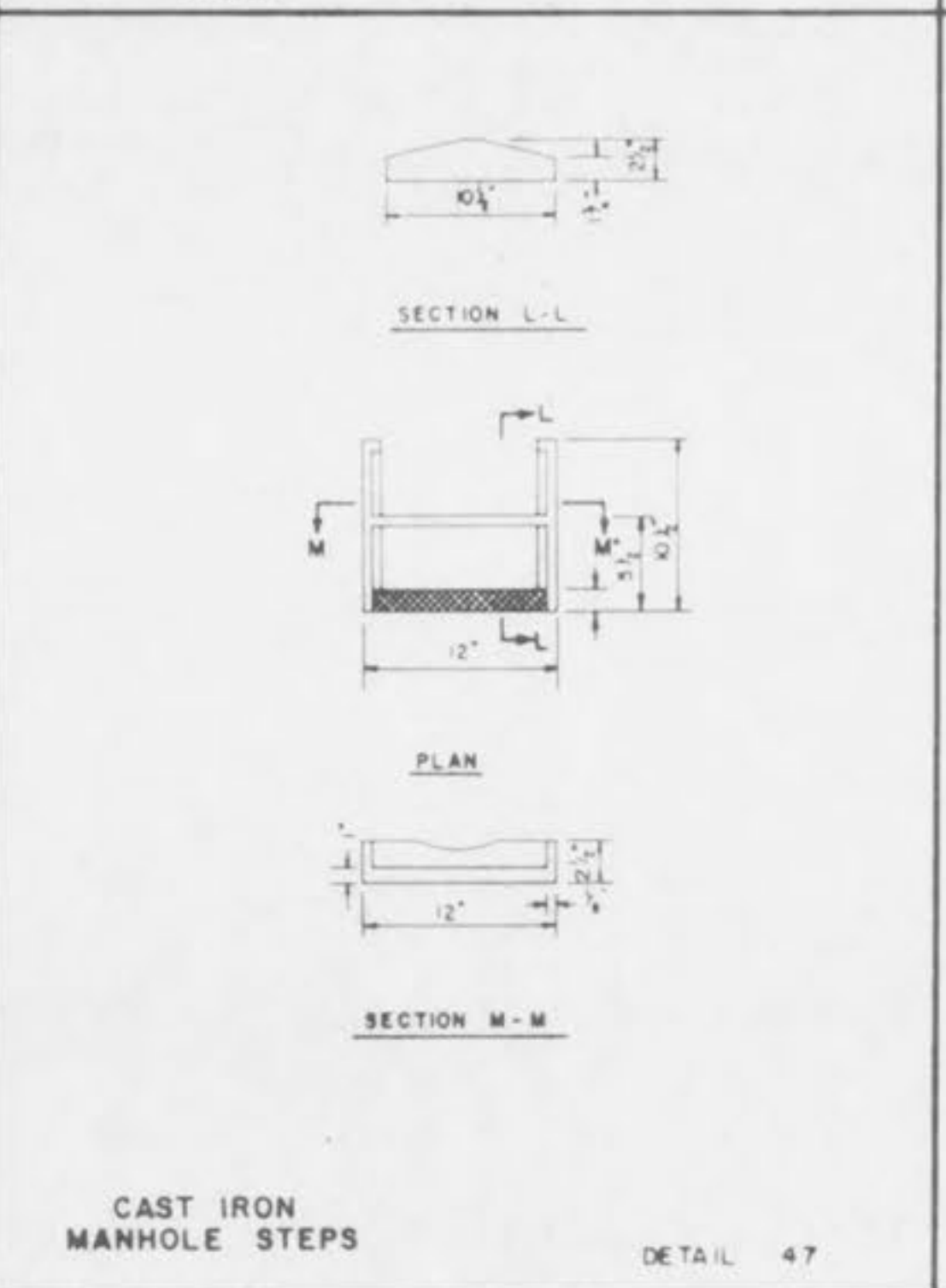
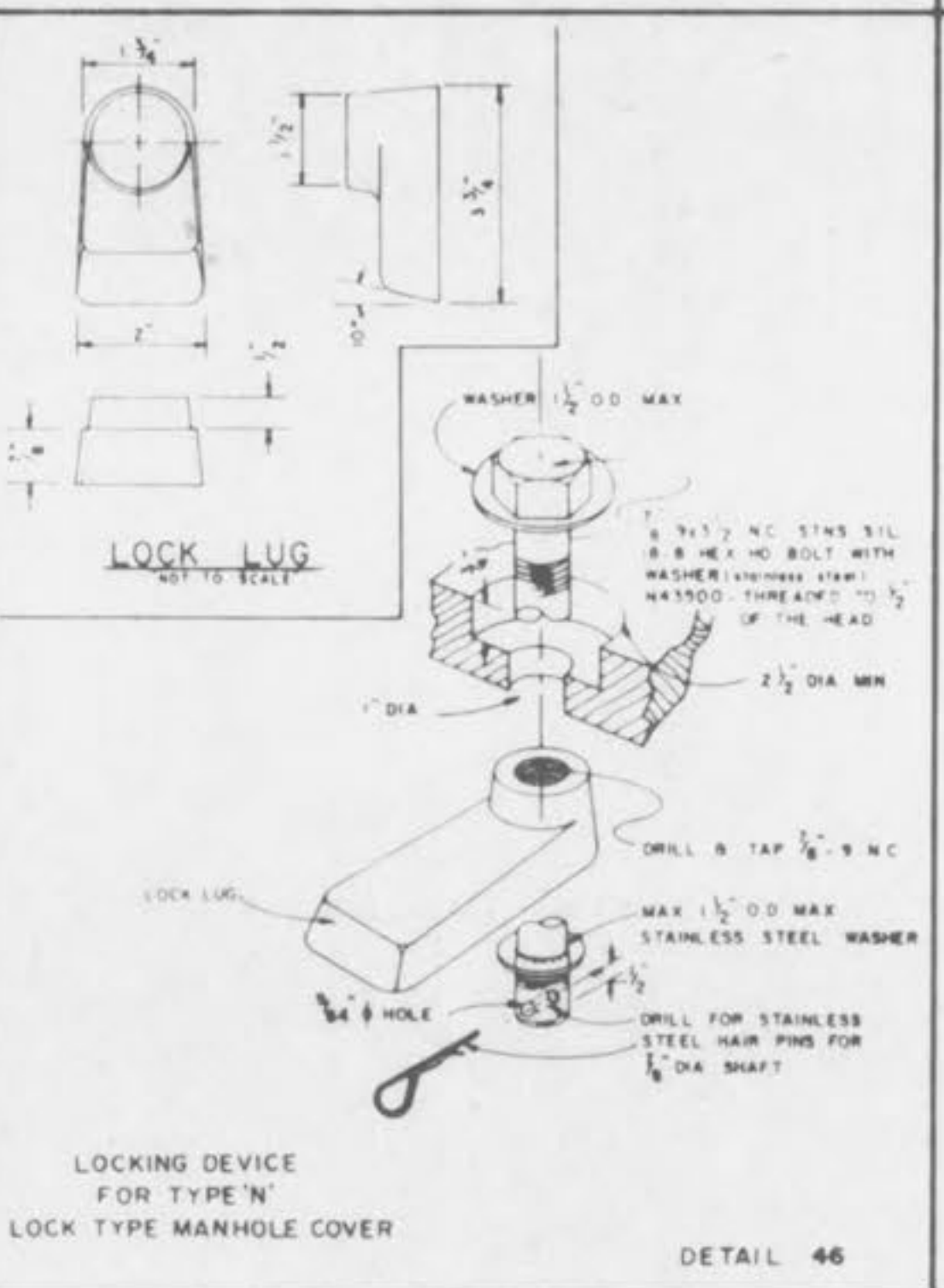
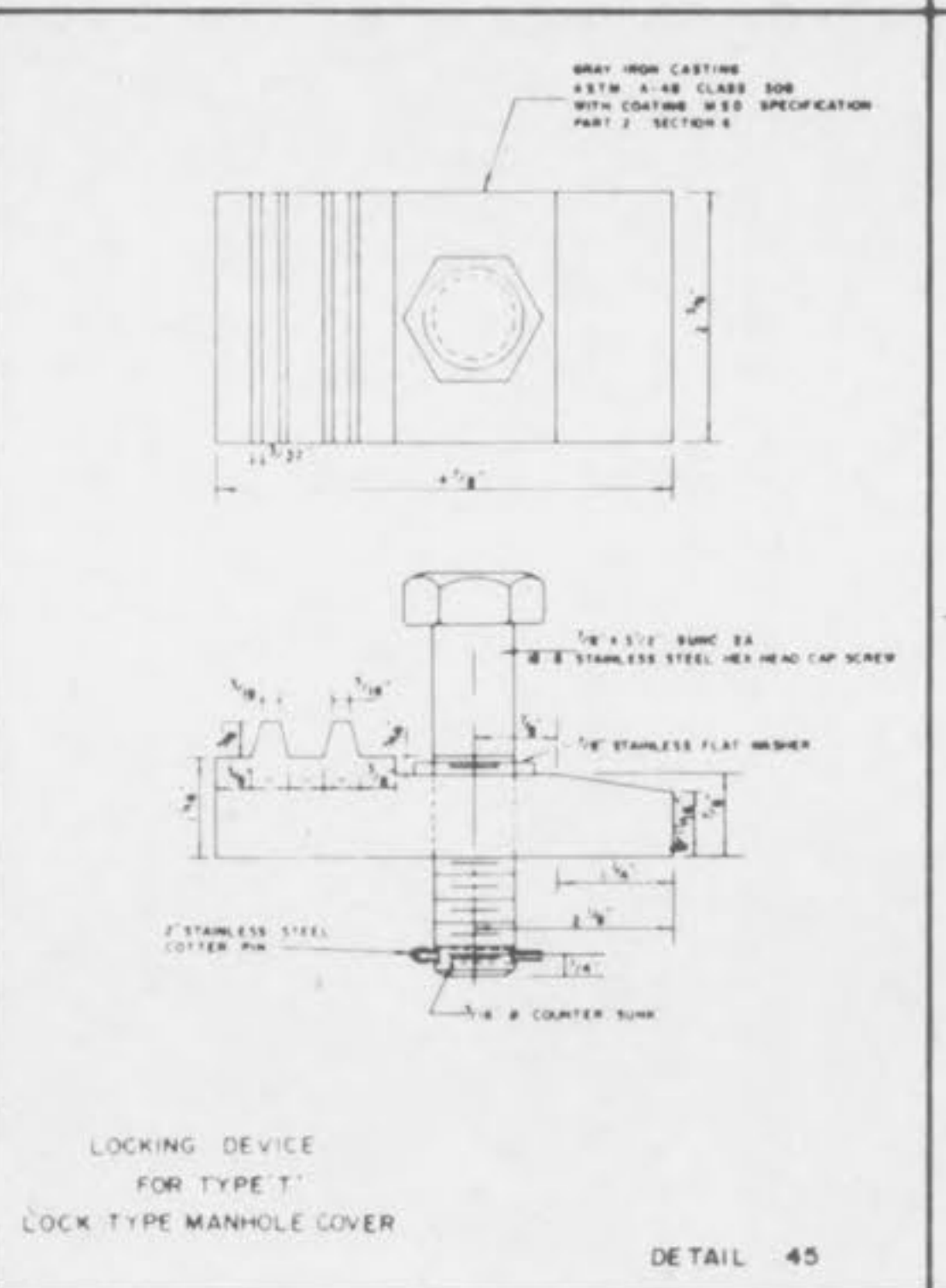
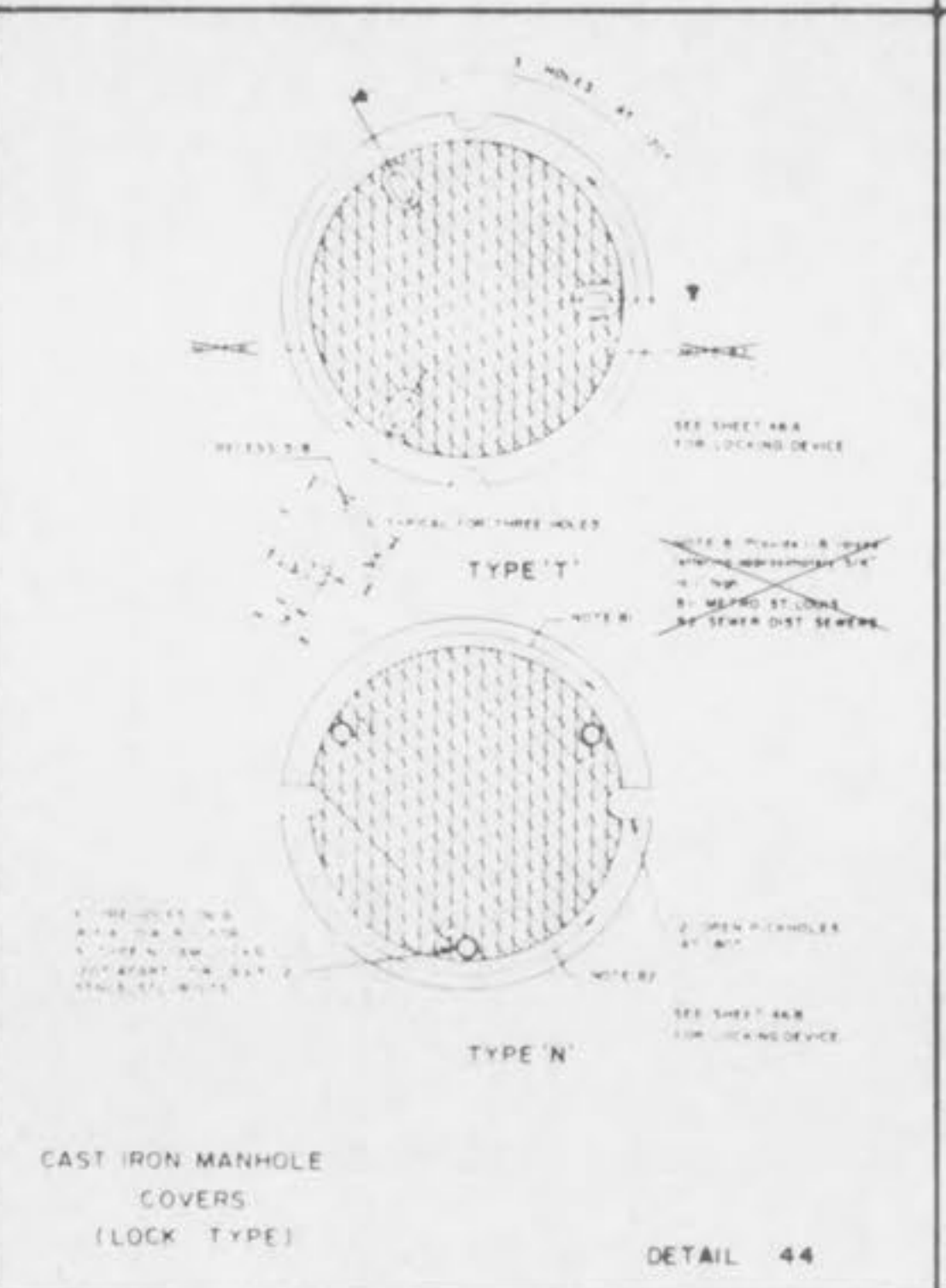
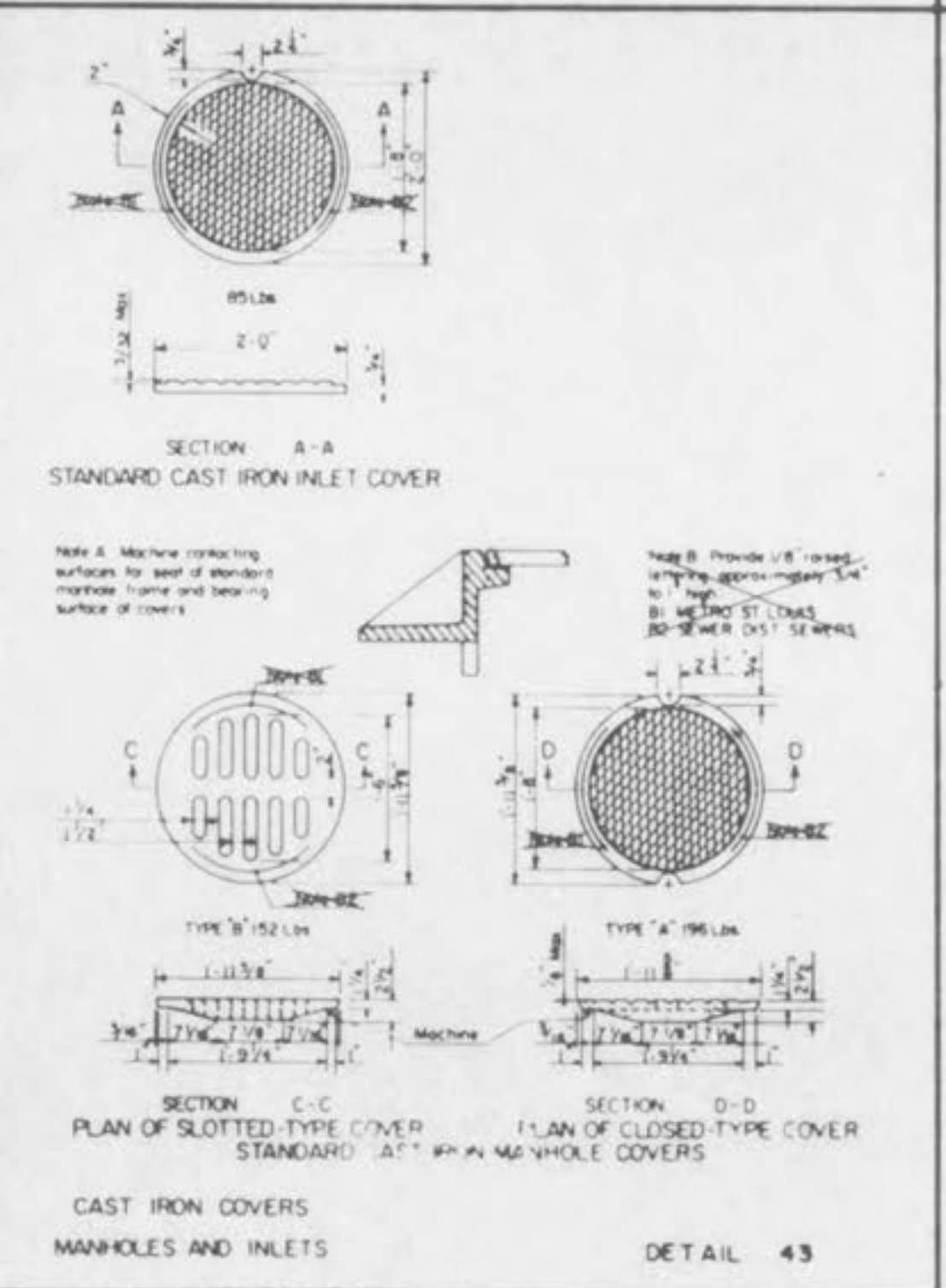
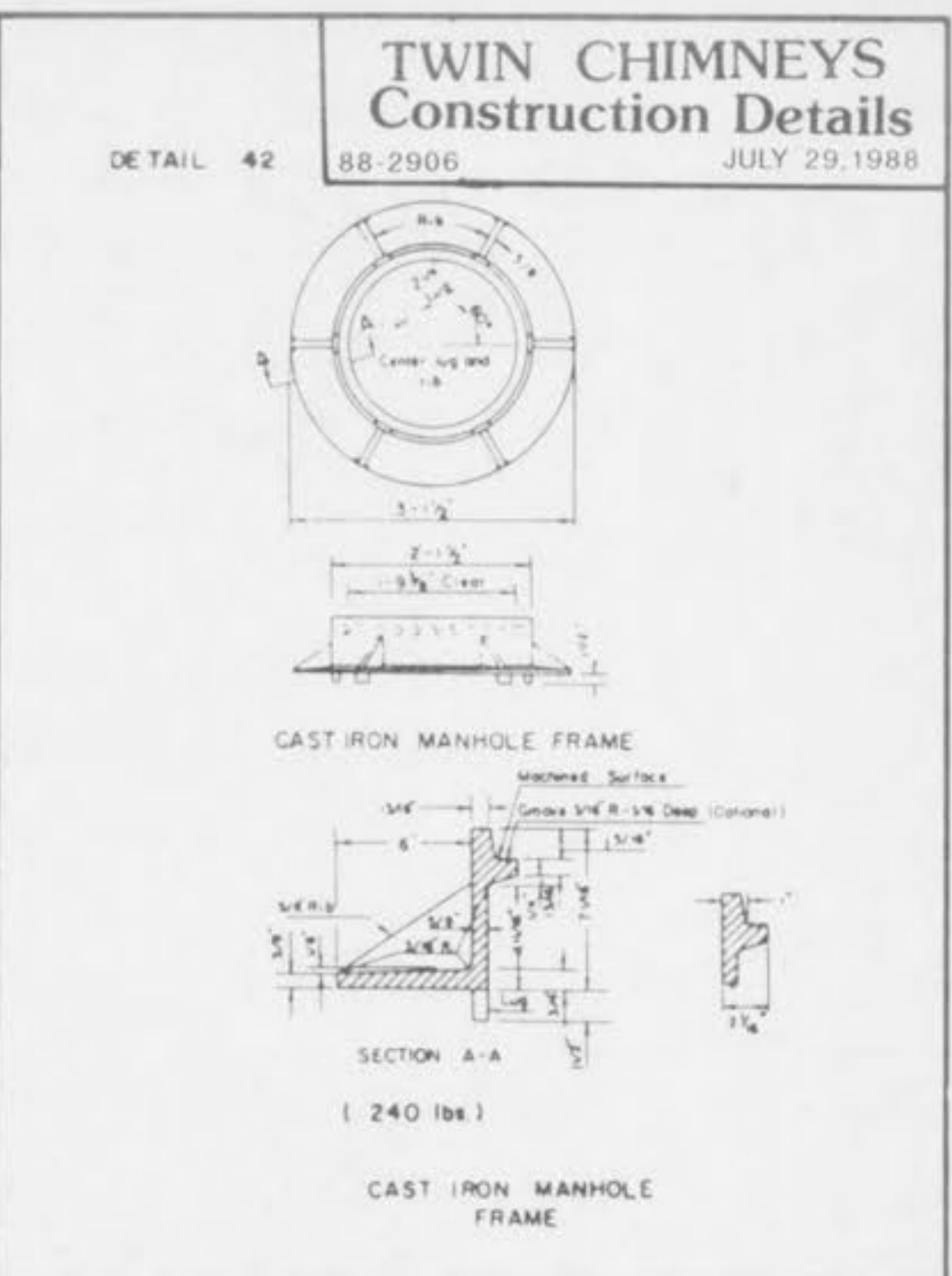
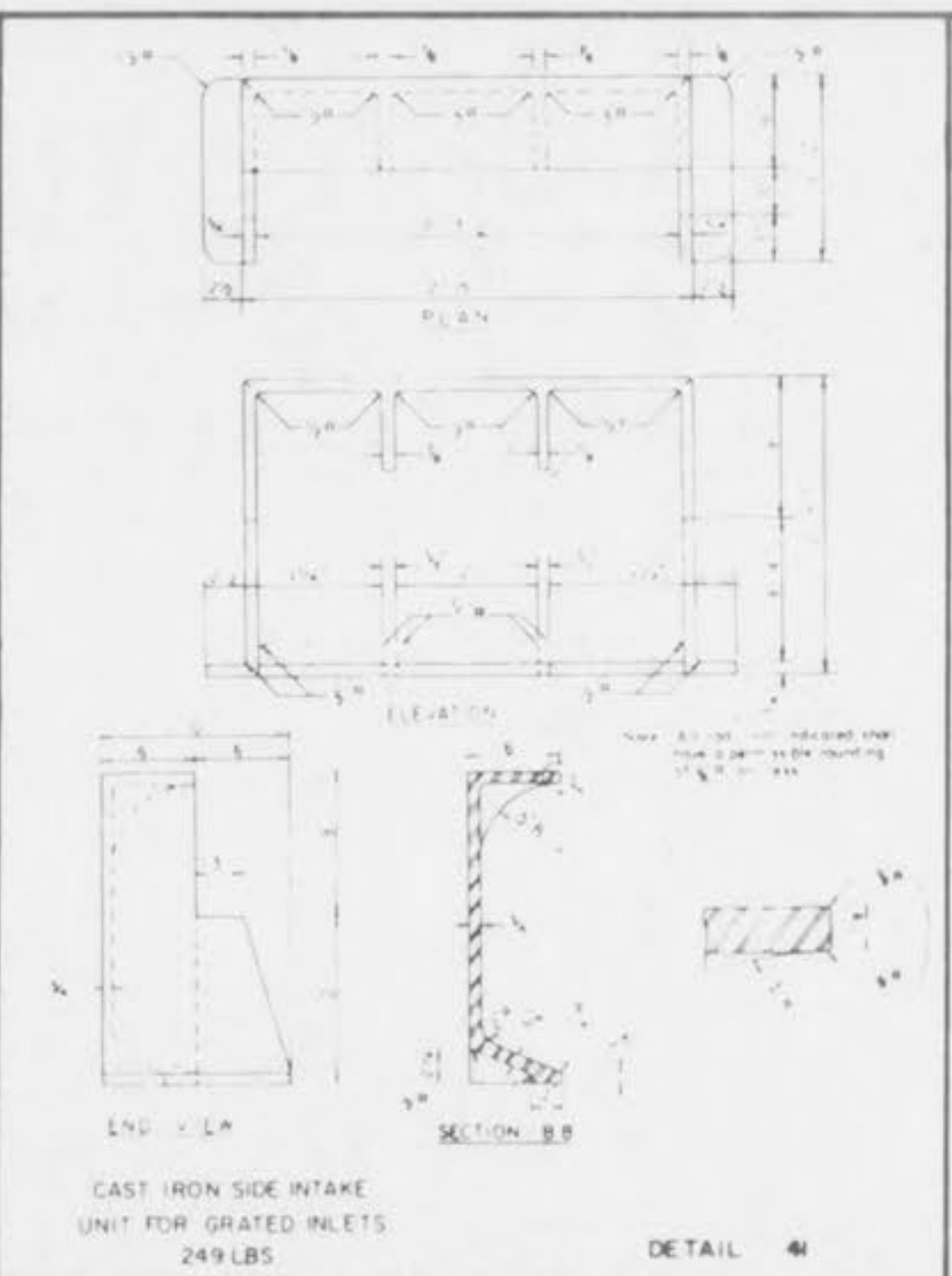
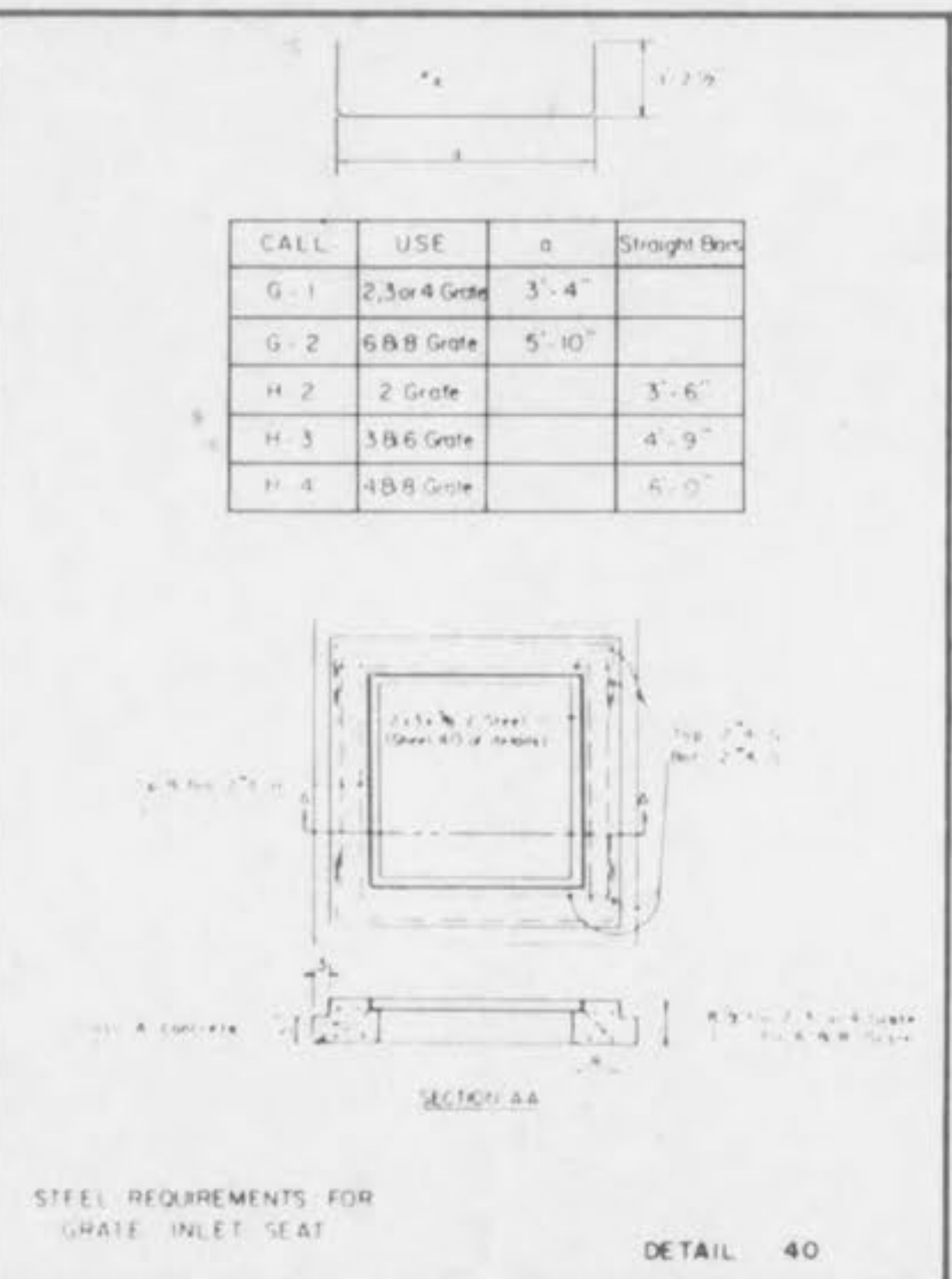
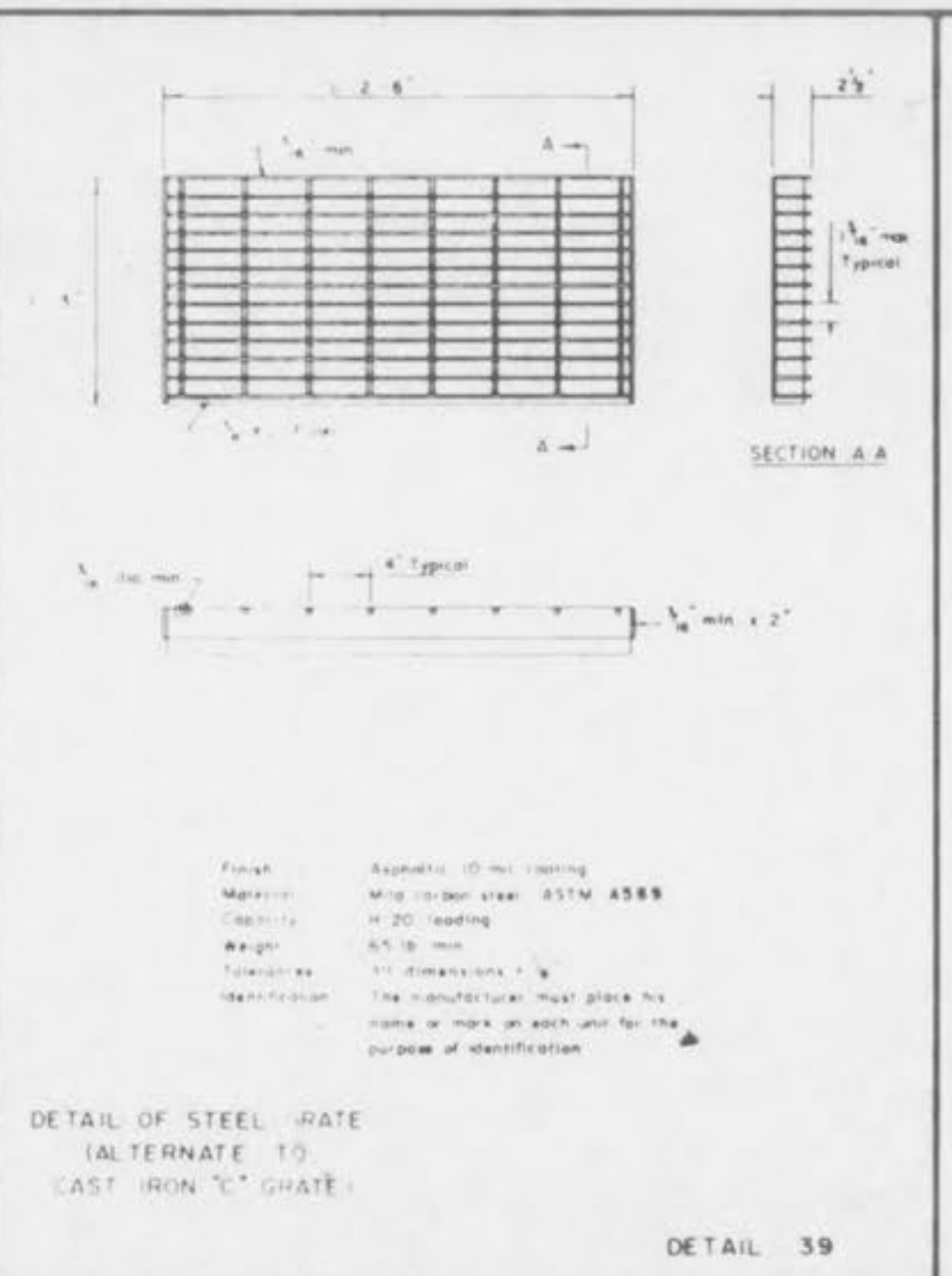
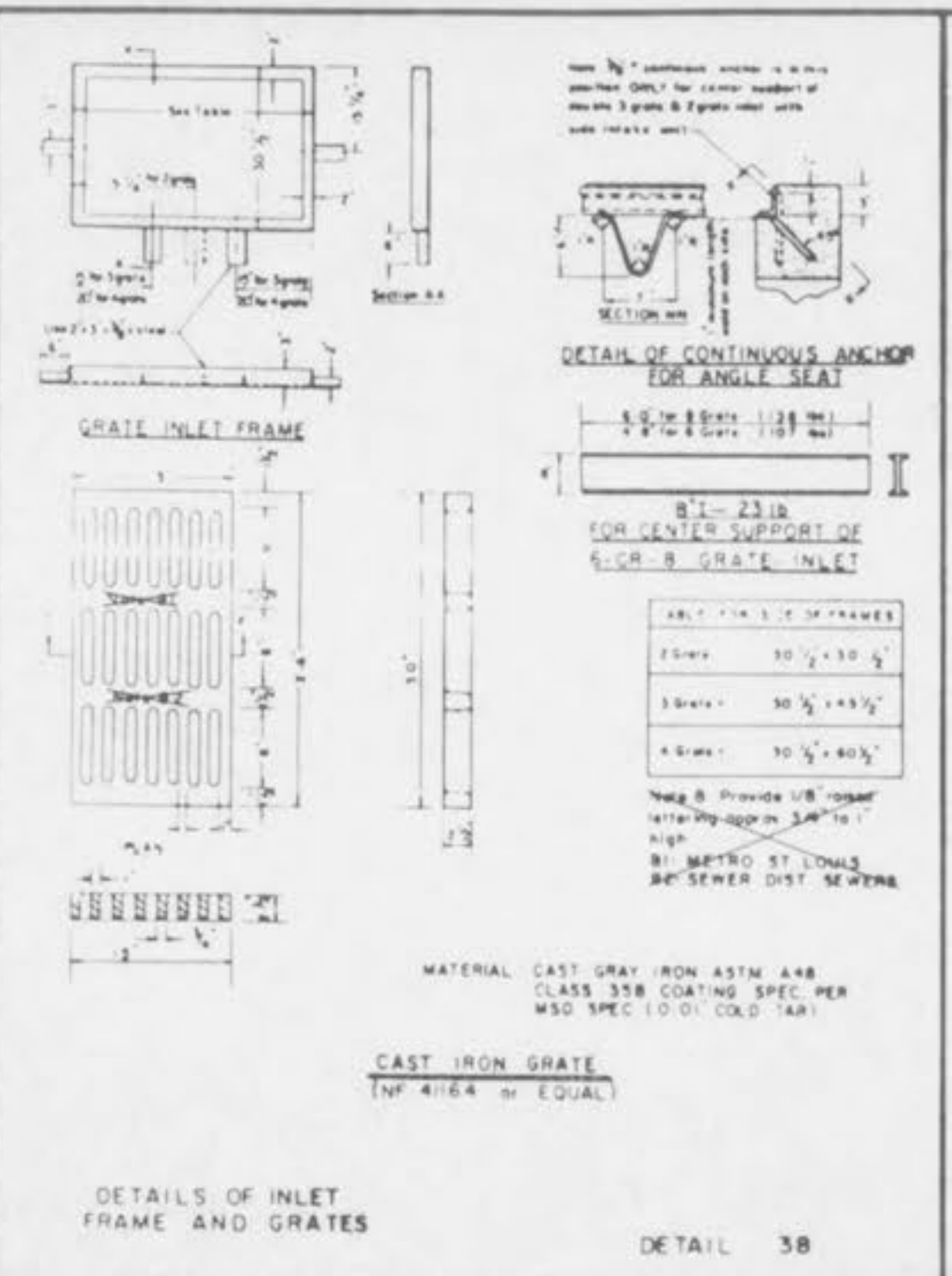
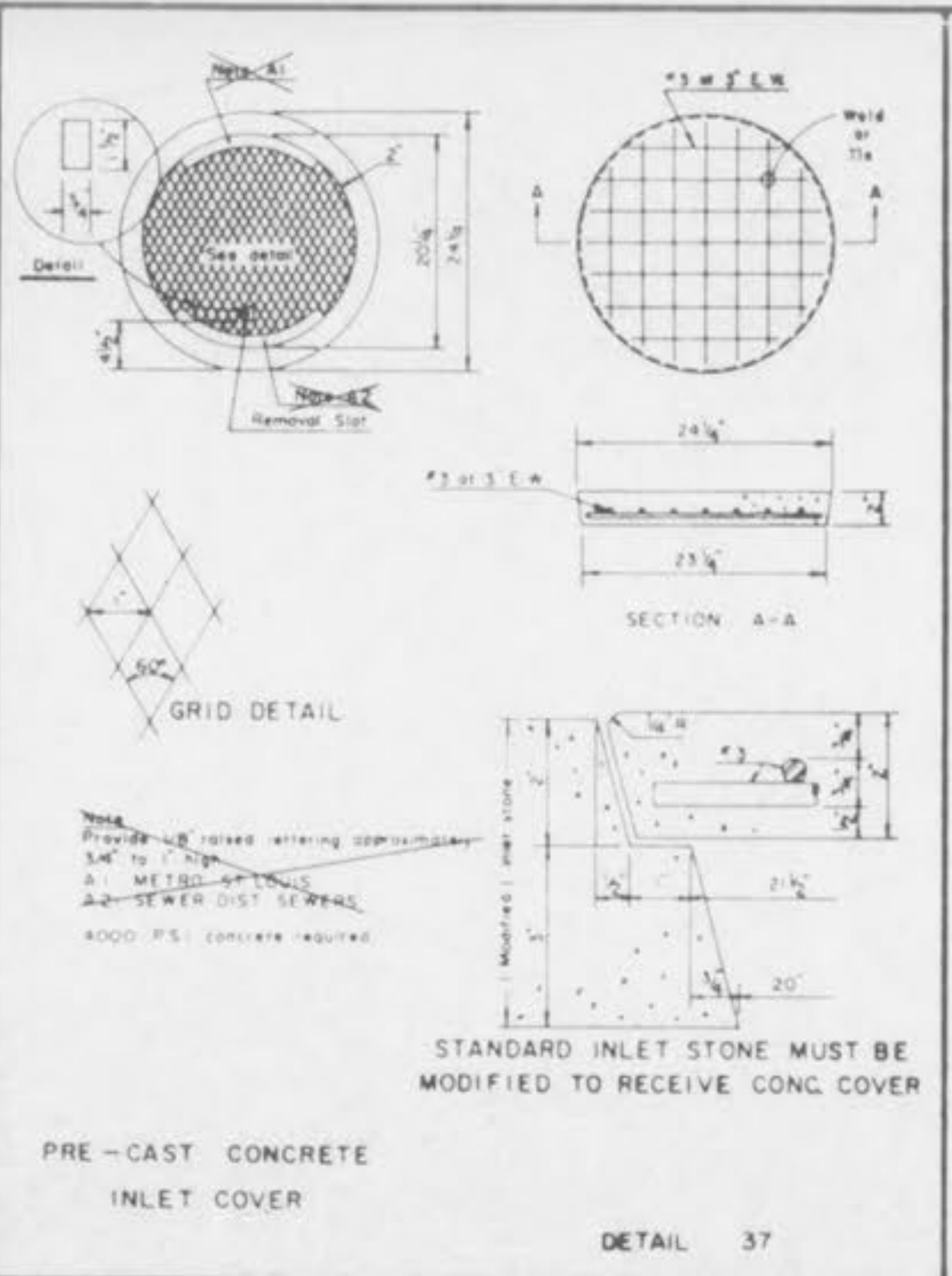


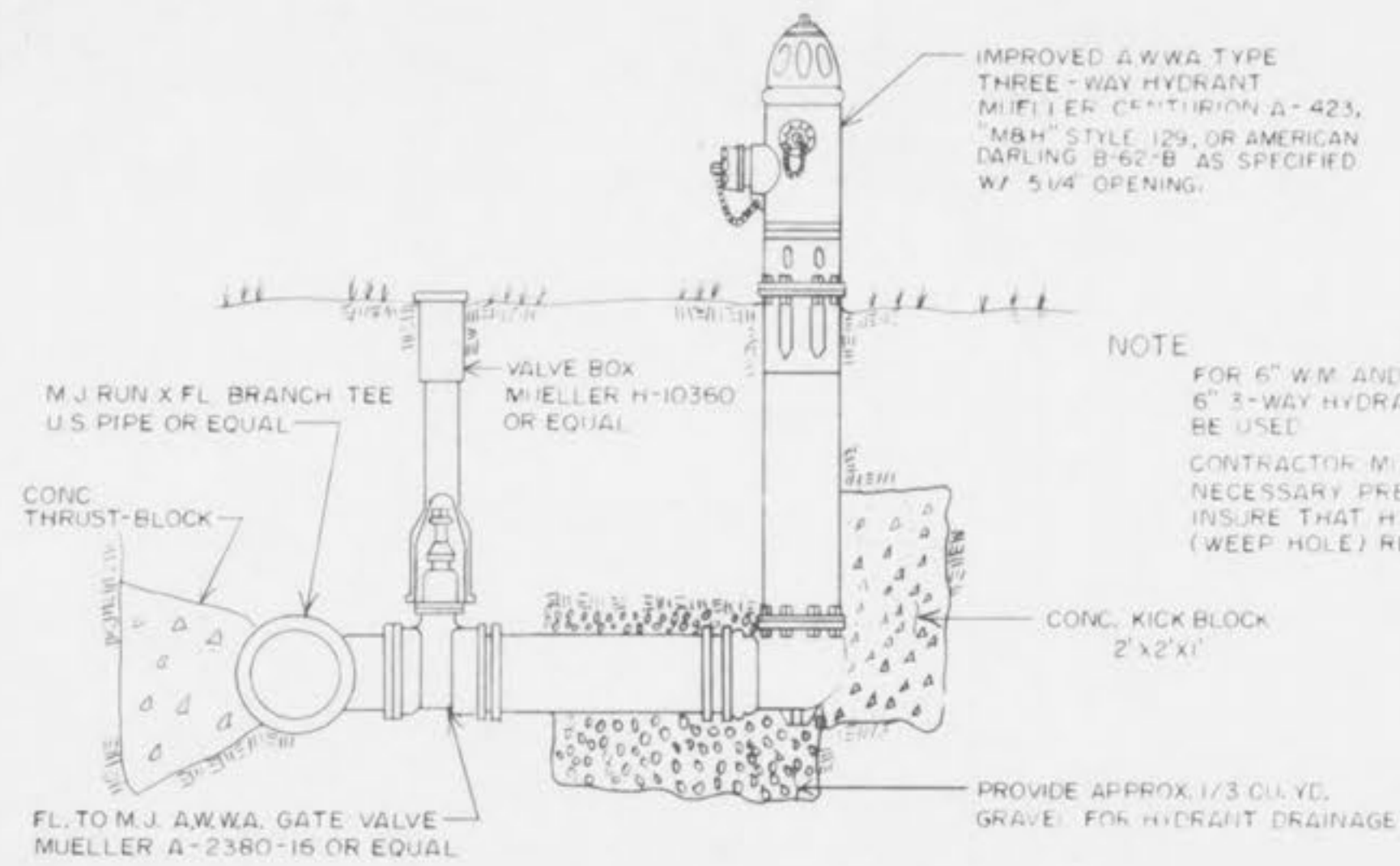
TERMINAL MANHOLE



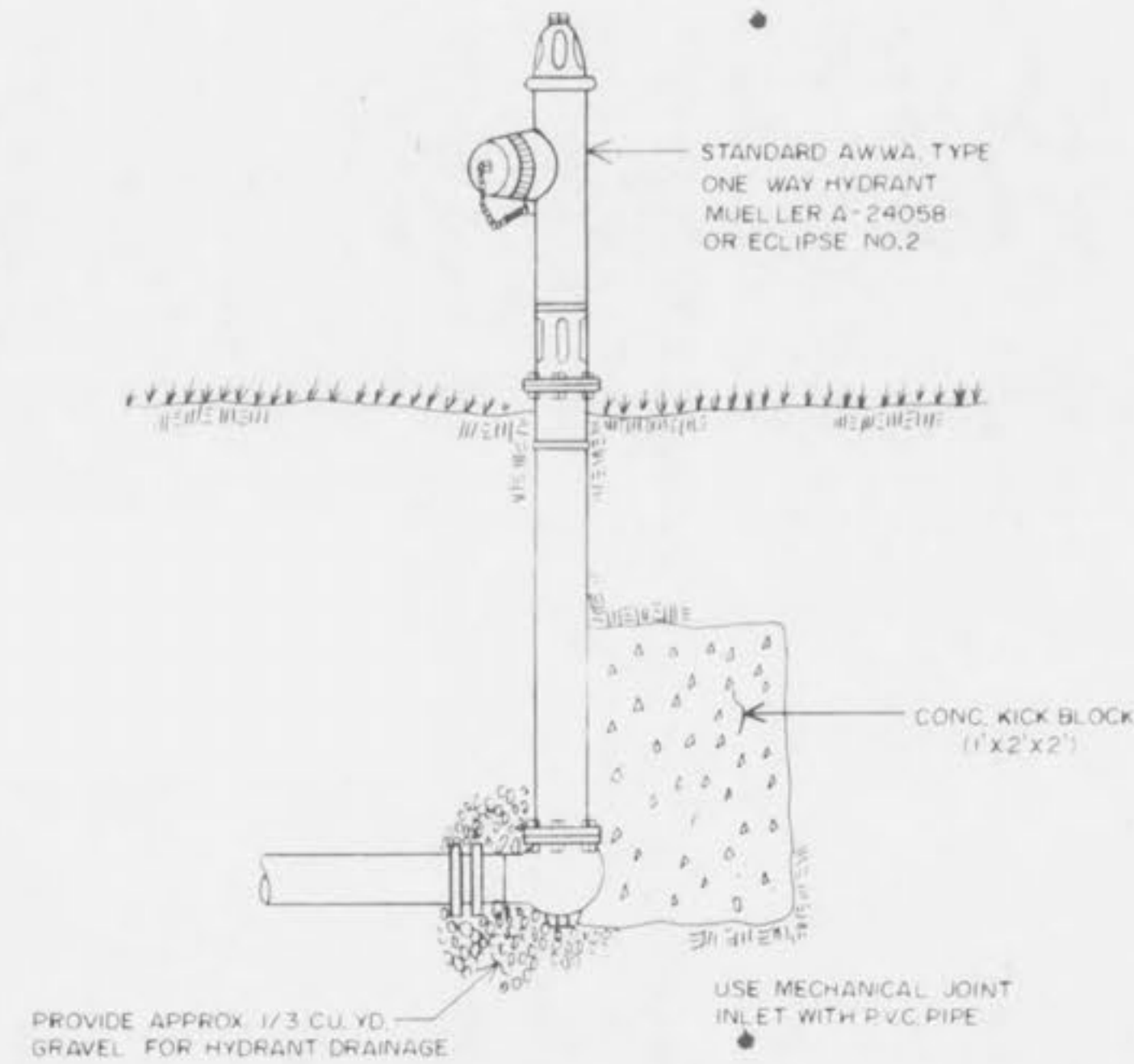
PRE-CAST CONCRETE MANHOLE FOR SEWERS 8" THROUGH 12"



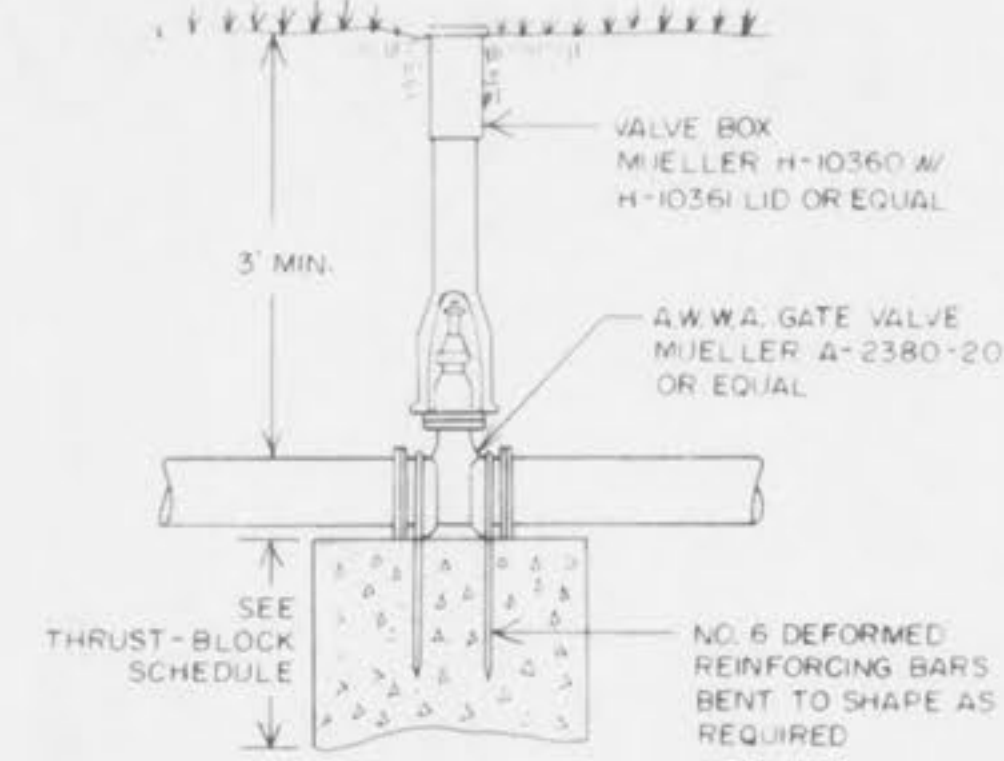




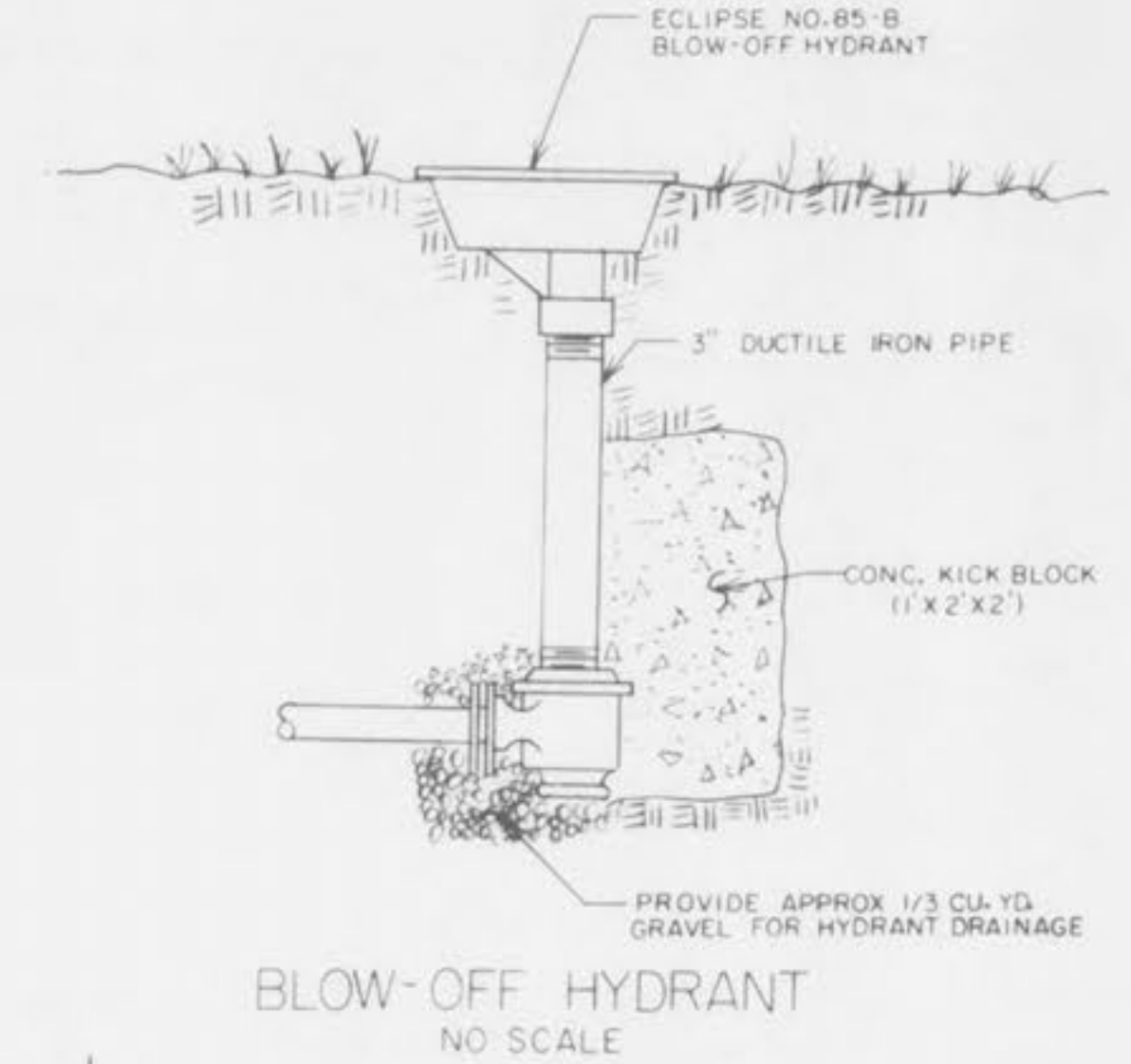
FIRE HYDRANT INSTALLATION DETAIL
NO SCALE



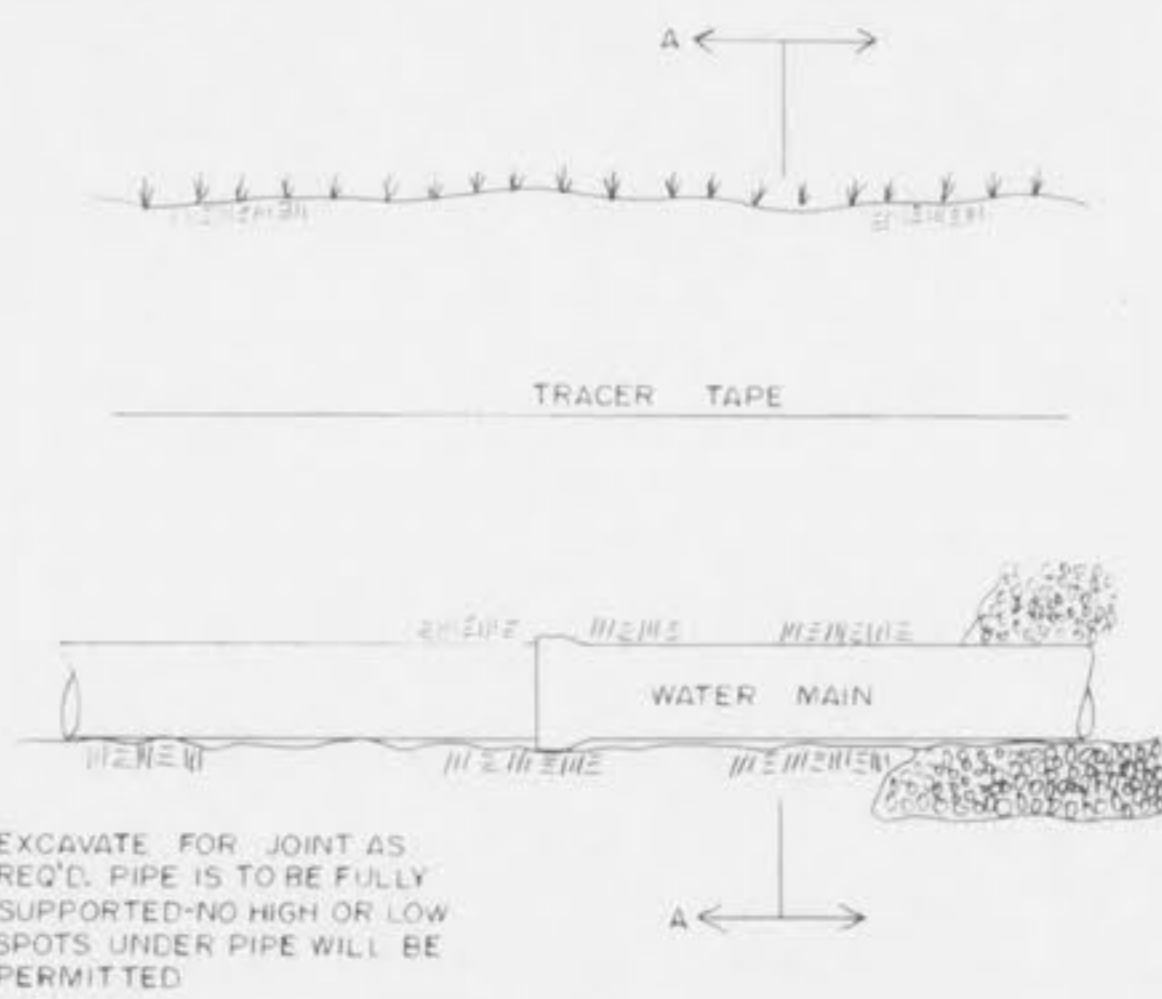
FLUSHING HYDRANT
NO SCALE



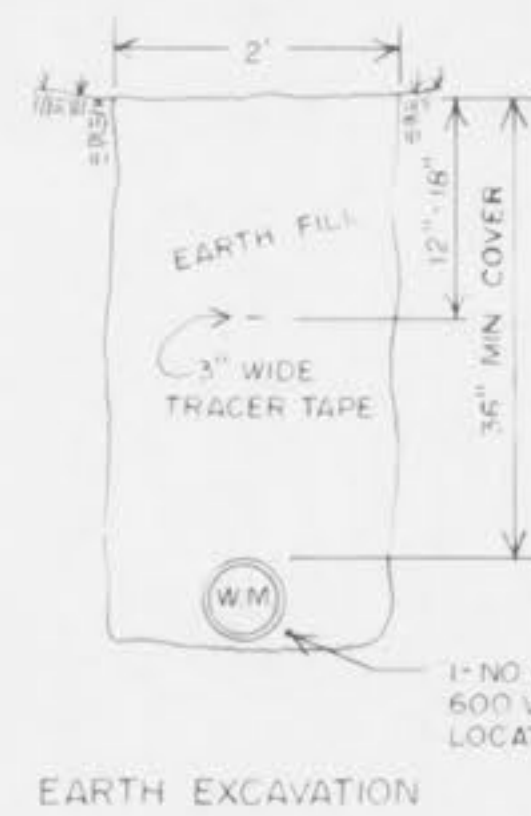
GATE VALVE W/ THRUST-BLOCK DETAIL
NO SCALE



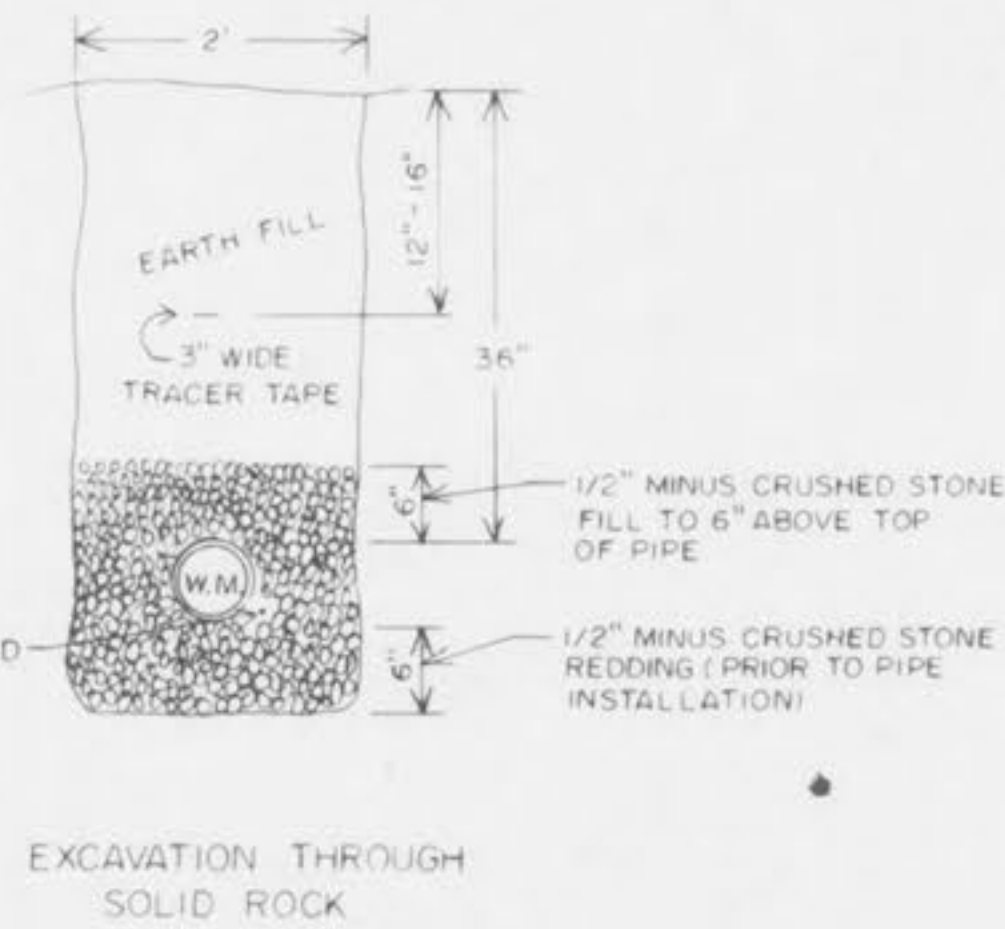
BLOW-OFF HYDRANT
NO SCALE



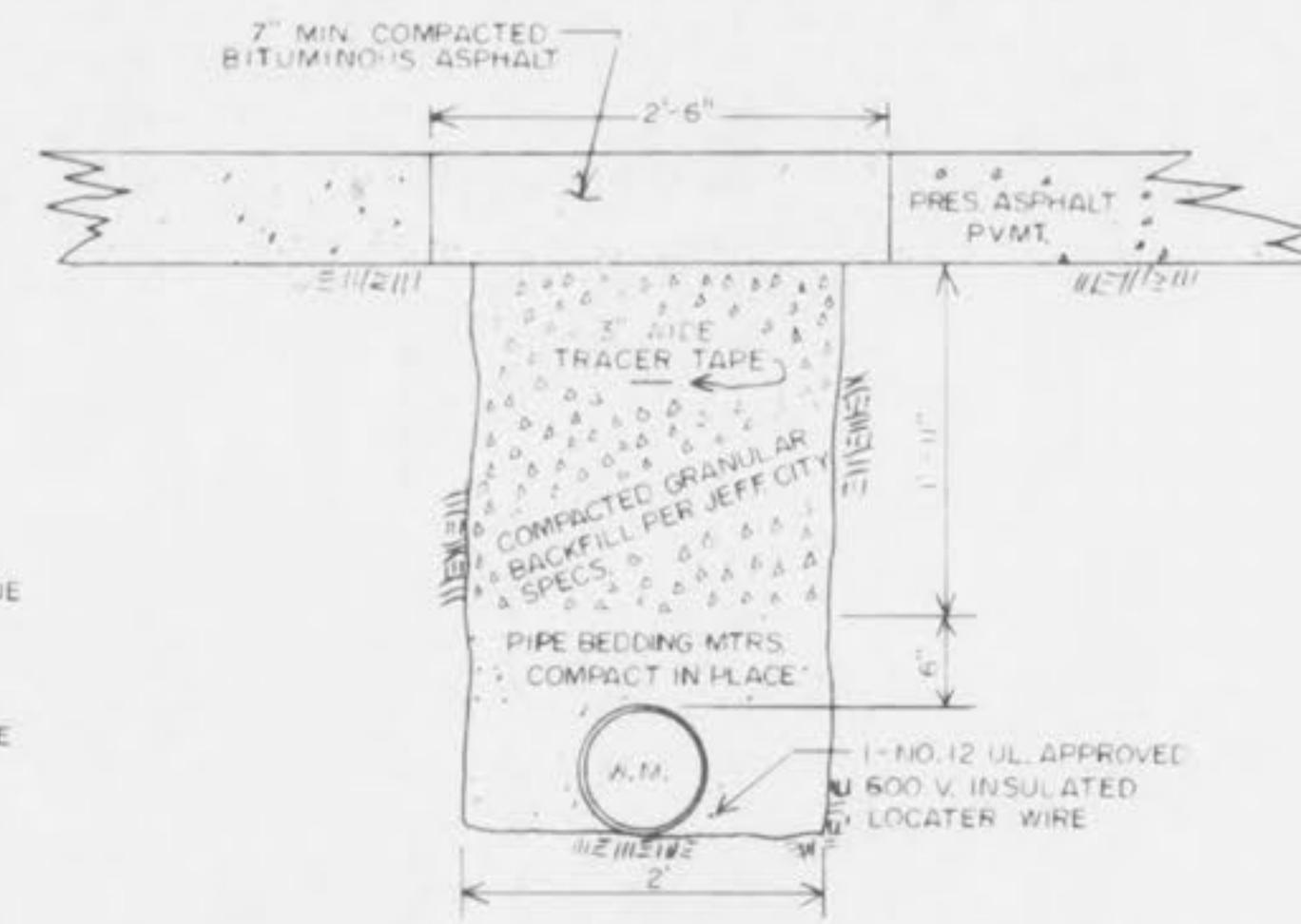
TYPICAL WATER MAIN TRENCHING DETAIL
NO SCALE



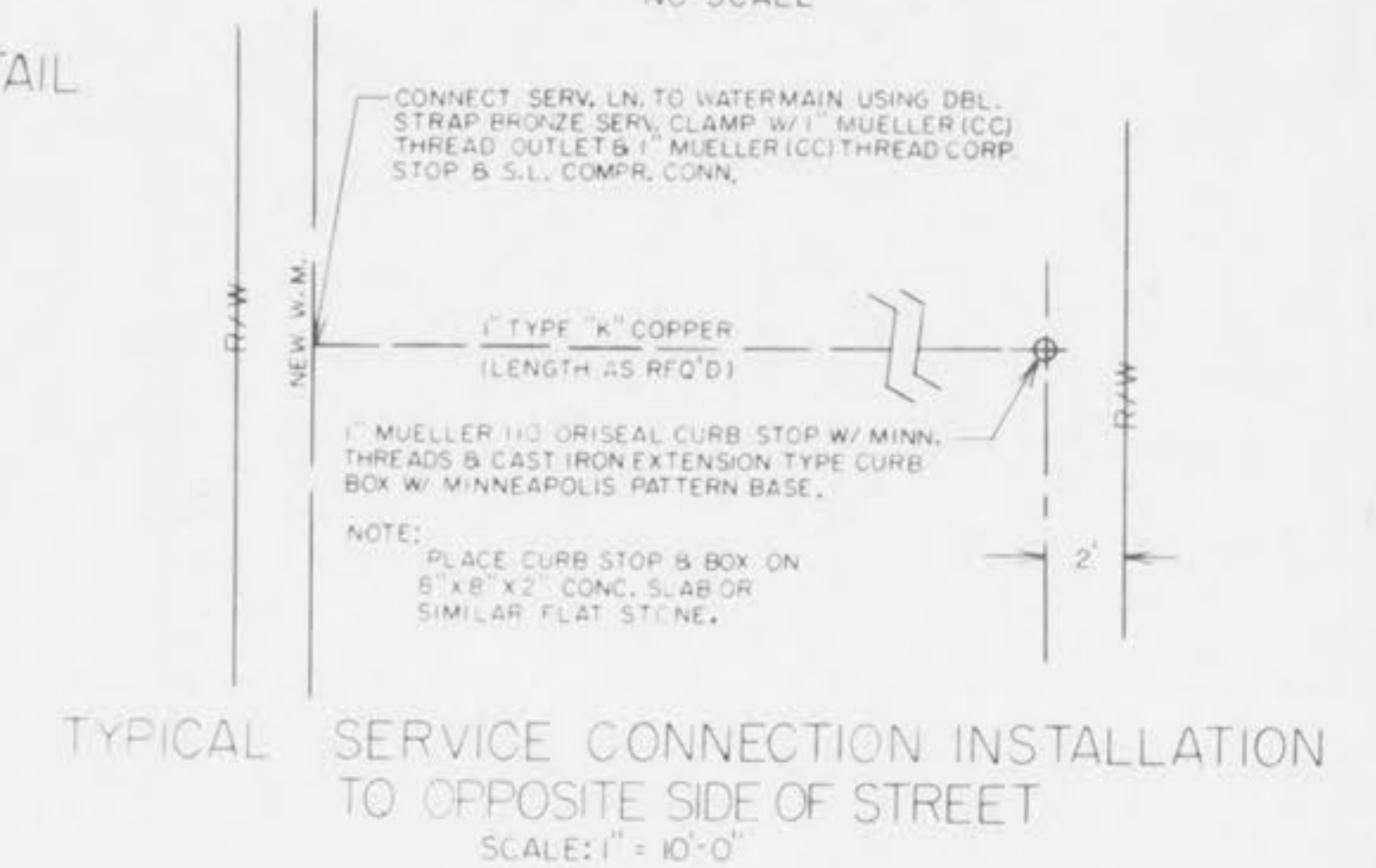
EARTH EXCAVATION



EXCAVATION THROUGH SOLID ROCK



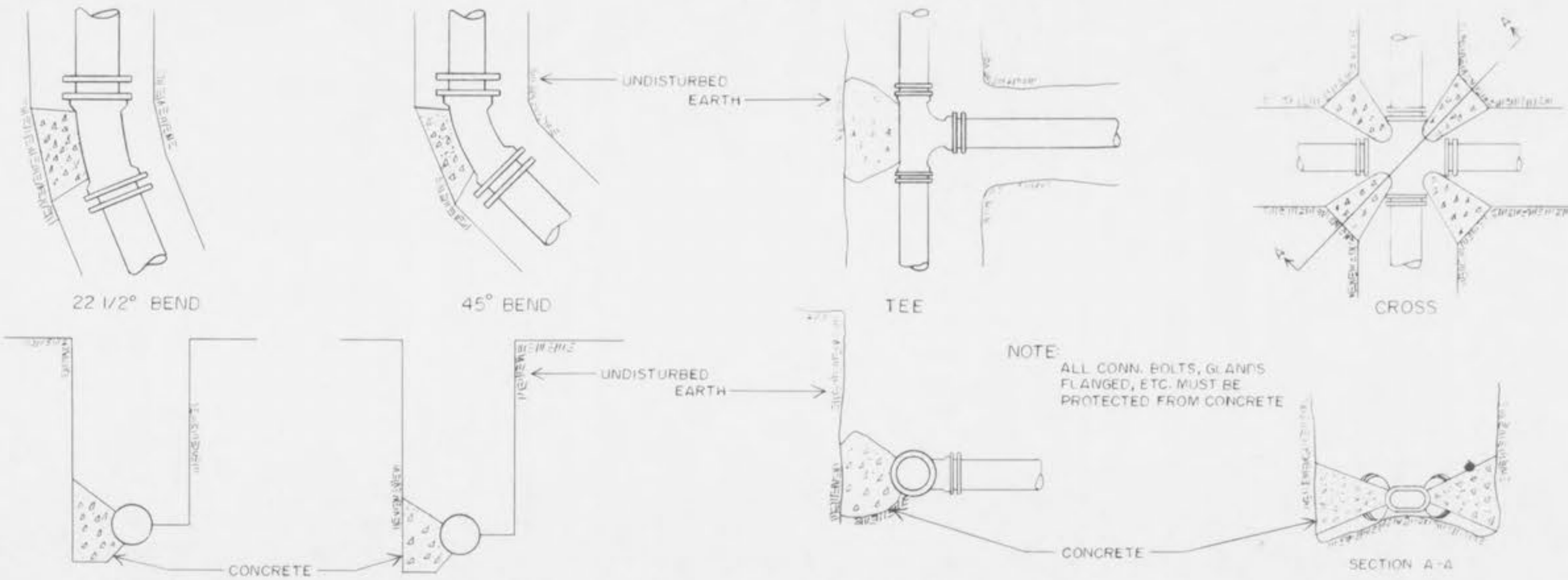
TYPICAL PAVED STREET OR ROAD TRENCH BACKFILL & SURFACE REPLACEMENT DETAIL
SCALE: 1\"/>



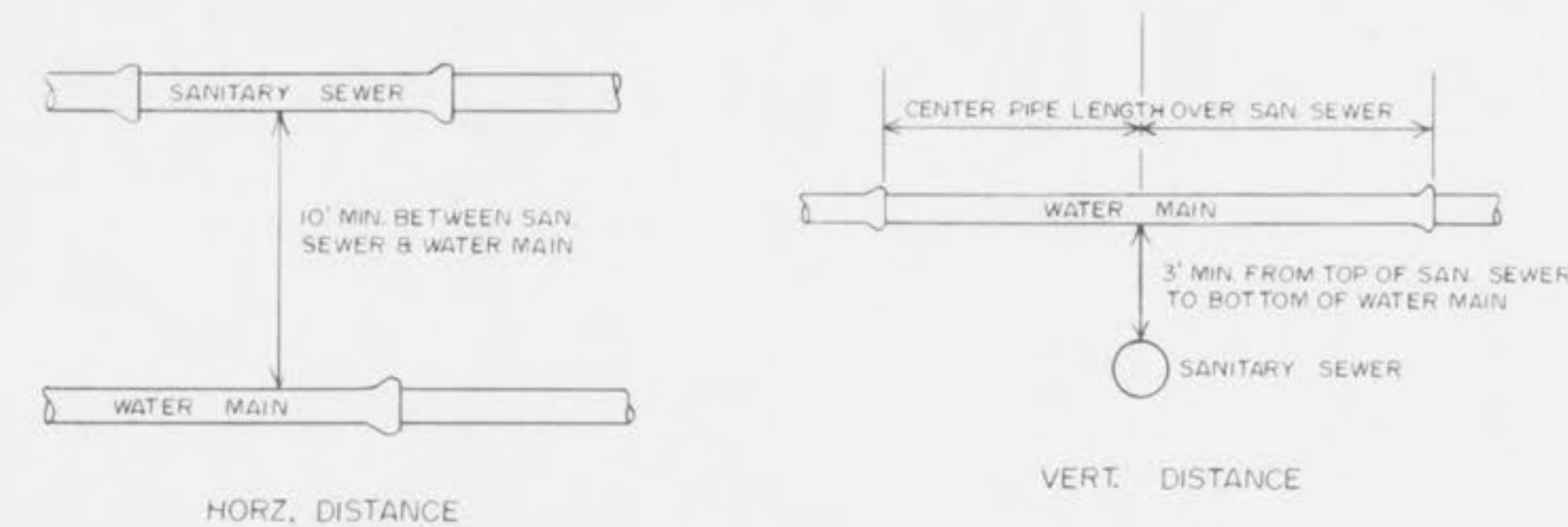
TYPICAL SERVICE CONNECTION INSTALLATION TO OPPOSITE SIDE OF STREET
SCALE: 1\"/>

MAIN SIZE	MIN. THRUSTBLOCK BEARING DIMENSIONS TO BEAR AGAINST UNDISTURBED EARTH				
	45° BEND	22 1/2° BEND	TEE	VALVE	CROSS
2"	5'x1'	5'x1'	5'x1'	5'x1'	5'x1'
4"	1'x1'	1'x1'	2'x1'	2'x1'	1'x1'
6"	1.5'x1'	1'x1'	2'x1'	2'x1'	1'x1.5'
8"	2'x1'	1'x1'	2'x2.5'	2'x2'	1'x1.5'
10"	2'x2.5'	1.5'x2'	2'x3.5'	2'x3'	2'x2'

THRUST-BLOCK SCHEDULE



TYPICAL THRUST-BLOCK DETAIL
NO SCALE



TYPICAL WATER & SEWER SEPARATION
NO SCALE

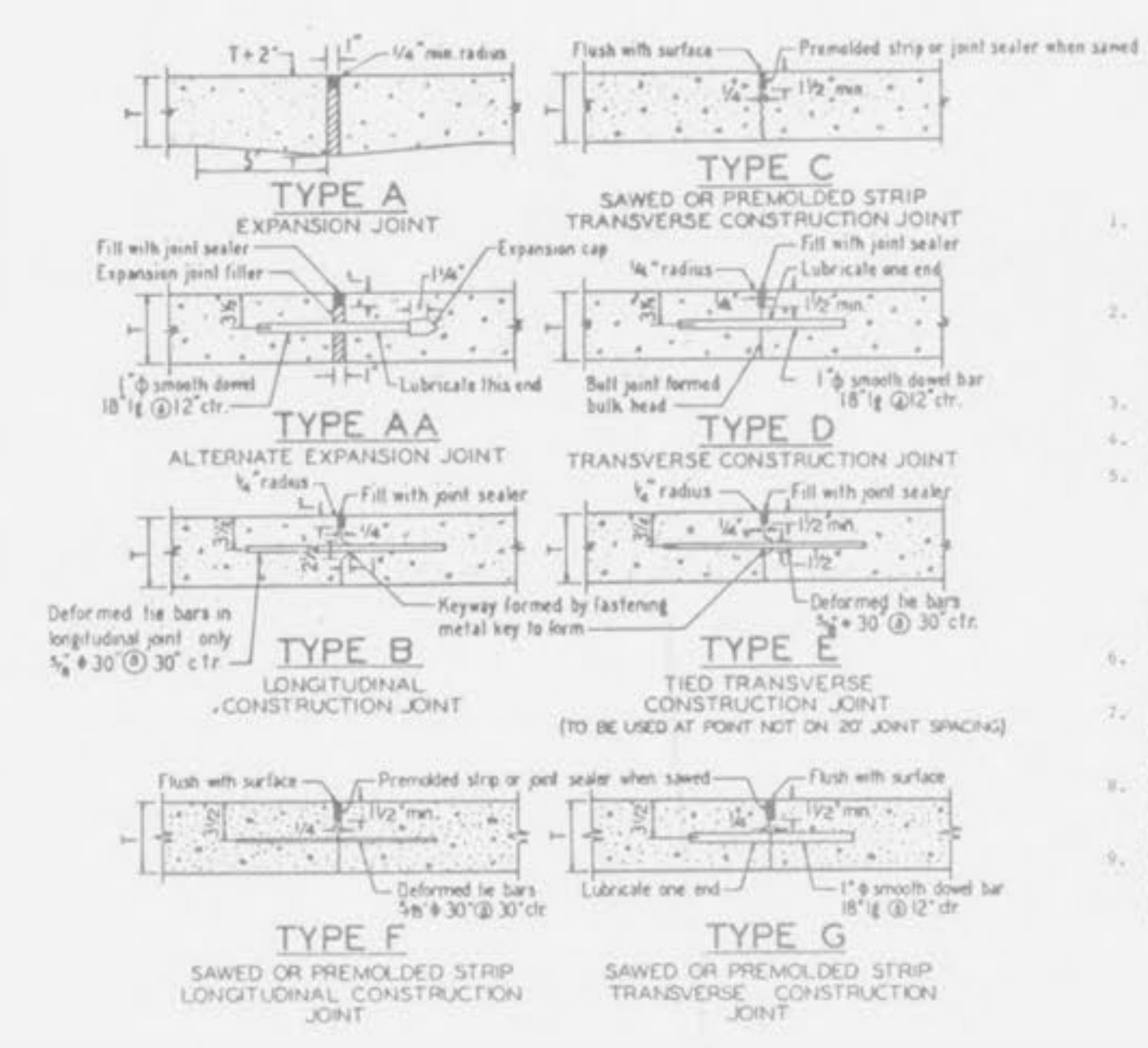
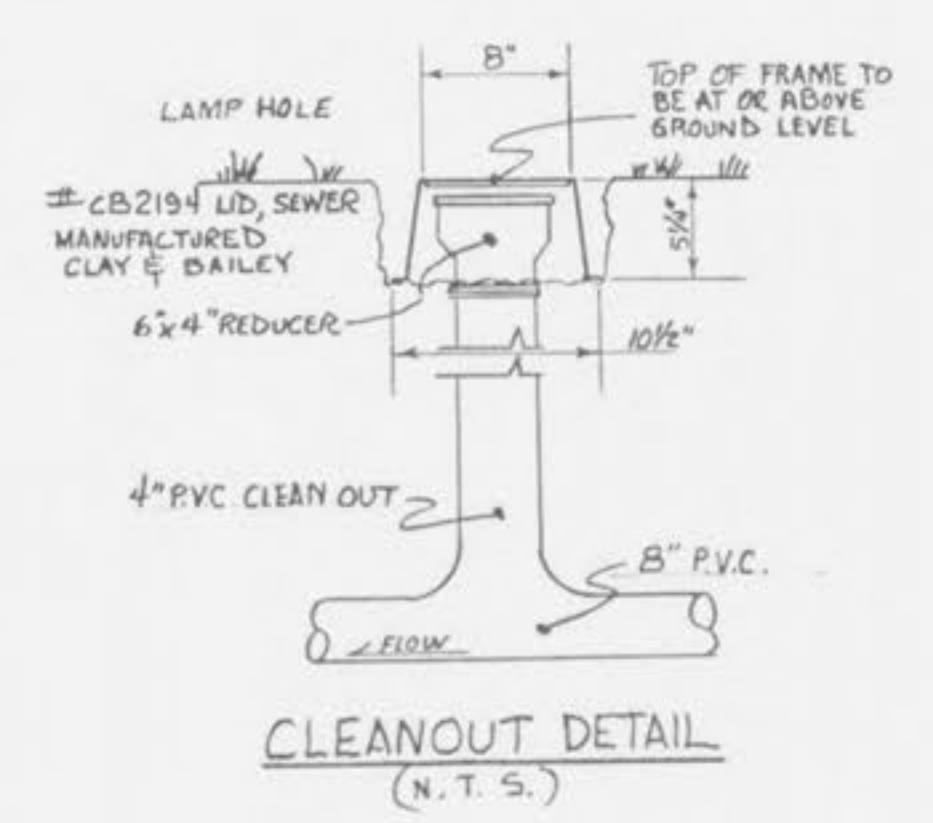
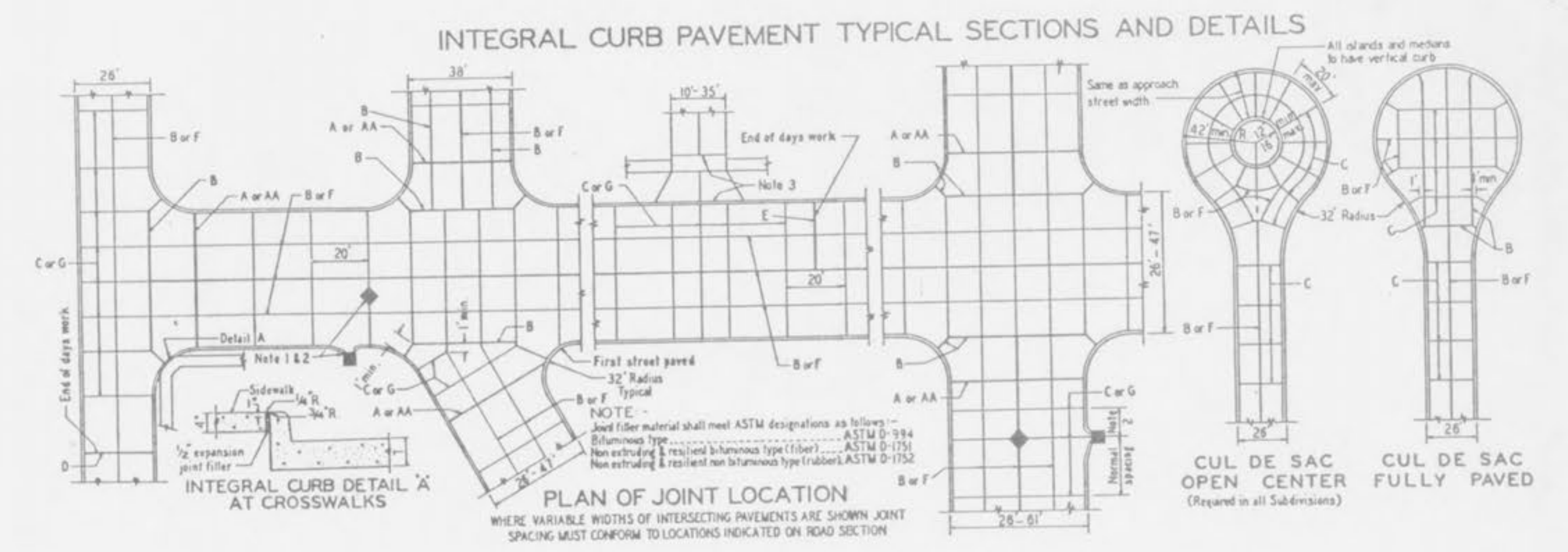
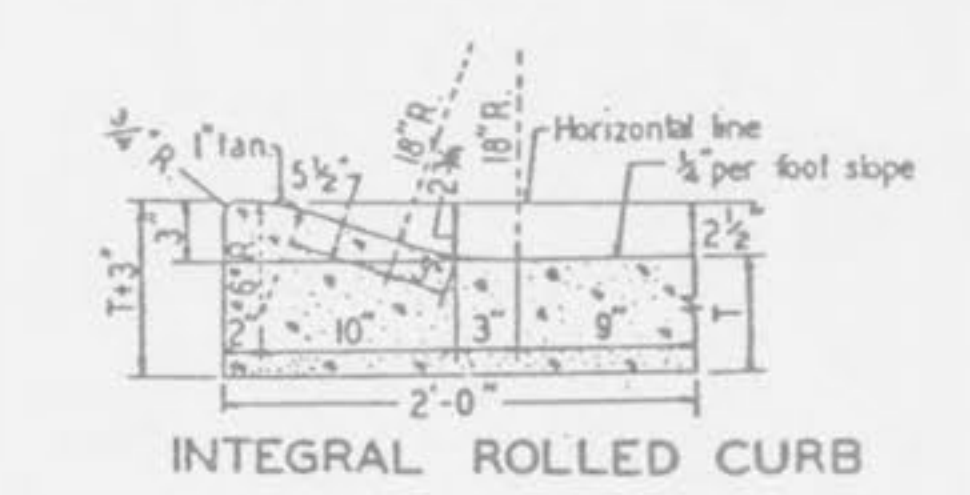
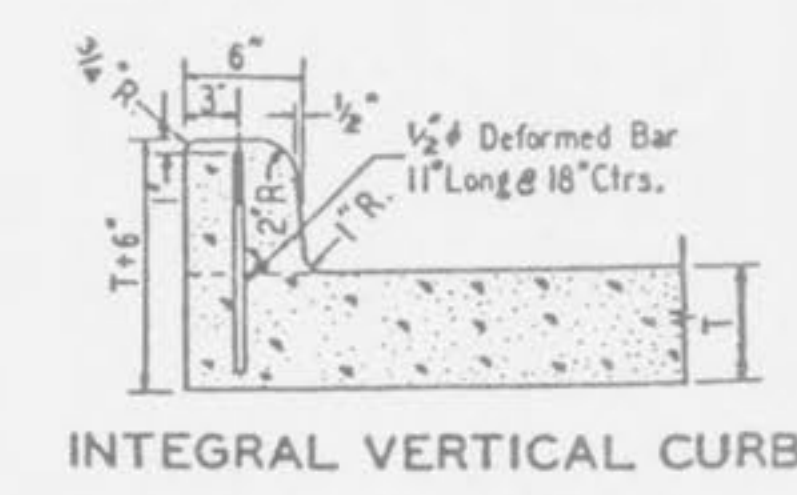
ST. CHARLES COUNTY
PUBLIC WATER SUPPLY DISTRICT
NO. 2

APPROVED: _____

TYPICAL WATER INSTALLATION DETAILS

DATE: _____ SCALE: _____ JULY 29, 1988
AS SHOWN REV. SEPT. 19, 1988

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18



- GENERAL NOTES**
- All catch basins shall be separate from the pavement and curb by expansion joint material extending completely through curb and wash holes castings within the pavement slabs shall be based on above in the "Power Construction Details".
 - When a joint falls within 5 ft. of or contacts base, manholes, or other structures, shorten one or more panels either side of opening to permit joint to fall on road structure and not between corners of rectangular structures.
 - Driveway configurations are shown in the "Entrance Construction Details".
 - Construction joint and dowel bars may be omitted when curb is poured integral with pavement.
 - Minimum Thickness for Pavement is
- | | CONCRETE (T) |
|--------------------------------|--------------|
| Local or Minor Streets | 5" |
| Major or Industrial Streets | 7" |
| Arterial or Industrial Streets | 8" |
- Base material under pavement will be made with 4 inches of Rolled Stone Base.
- For minor rural or urban and minor subdivision pavements (6" thick concrete), 1/2" @ deformed tie bars 30" lg. @ 30" c/cr. shall be used for TYPE B longitudinal joints.
 - Refer to Exhibit 134 for joint and bar requirements for different street classifications. Note that width and location of each poured portion of the pavement may change the type and location of joint required.
 - Transverse or longitudinal construction joints in all paved pavements may be made with groover or tool, if such device has been approved in advance by the St. Louis County Department of Highway & Traffic.
 - The locations of the Type B and Type F longitudinal construction joints in above sections may be interchanged for the different widths of construction if approval is obtained.

