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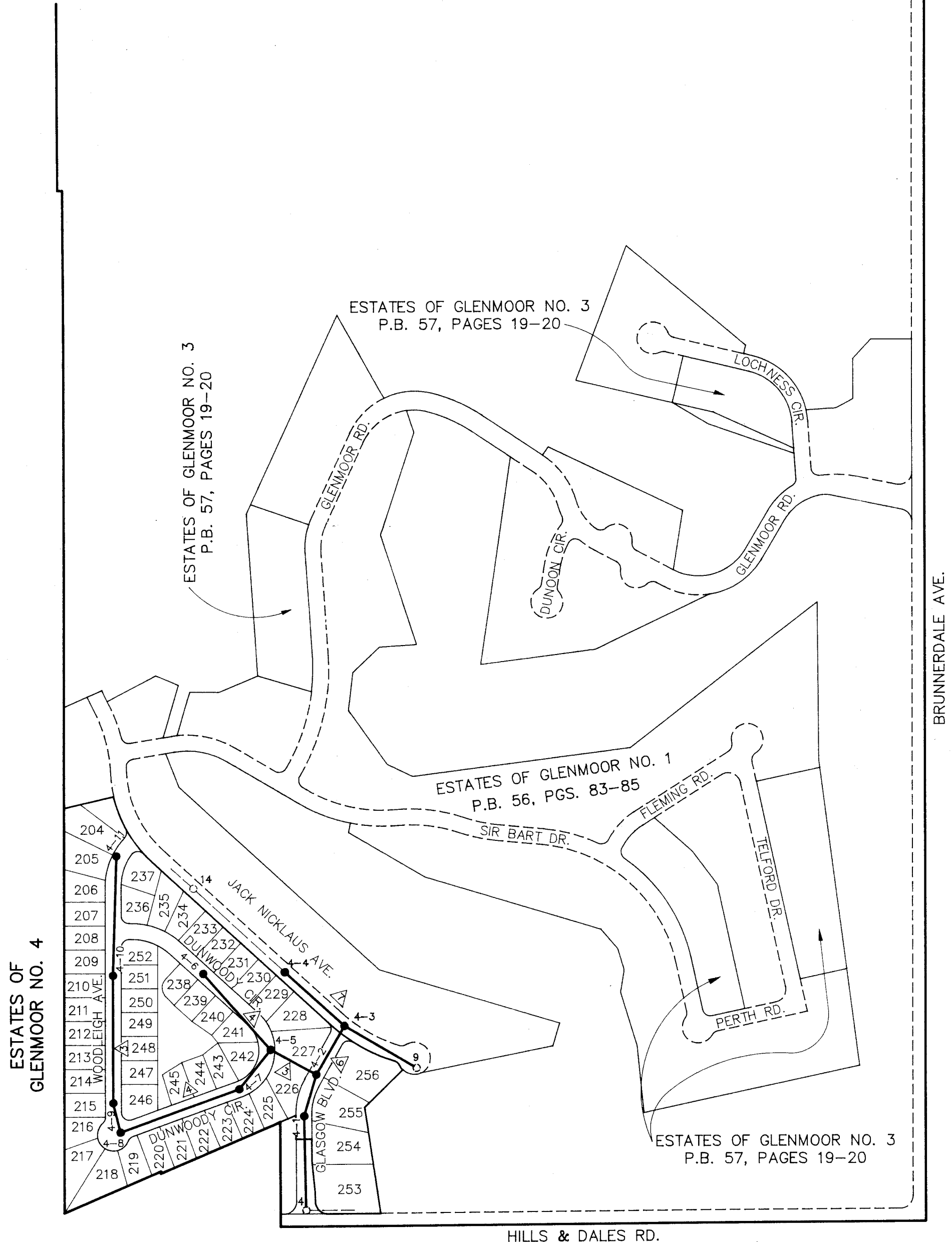
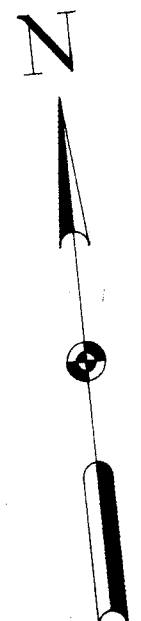
ESTATES OF GLENMOOR NO. 4

A REPLAT OF LOTS 1 THRU 6, AND VACATION OF PART OF GLASGOW BOULEVARD N.W. AND EASEMENTS WITHIN SAID REPLAT LOTS IN ESTATES OF GLENMOOR SUBDIVISION NO. 1 AS RECORDED IN PLAT BOOK 56, PAGES 83-85 AND A REPLAT OF ALL OF THE ESTATES OF GLENMOOR SUBDIVISION NO. 2 AS RECORDED IN PLAT BOOK 57, PAGES 17-18 INCLUDING VACATION OF WOODLEIGH AVENUE N.W., LISMORE STREET N.W., DUNWOODY DRIVE N.W. AND EASEMENTS, PART OF THE SOUTHEAST QUARTER, SECTION 27, JACKSON TOWNSHIP (T-11, R-9)
STARK COUNTY, OHIO

MARCH 1991

PREPARED BY:

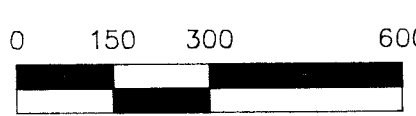
HAMMONTREE & ASSOCIATES, LTD
ENGINEERS, PLANNERS & SURVEYORS
NORTH CANTON, OHIO



2 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

SANITARY SEWER LEGEND

- 4-2 DENOTES SANITARY SEWER MANHOLE NO.
- △ DENOTES SHEET NO.



SCALE: 1"=300'

ISSUED

APR 05 1991

HAMMONTREE & ASSOC., LTD.

APPROVED _____ DATE _____
MASSILLON CITY ENGINEER

APPROVED _____ DATE _____
STARK COUNTY SANITARY ENGINEER

APPROVED _____ DATE _____
STARK COUNTY SUBDIVISION ENGINEER

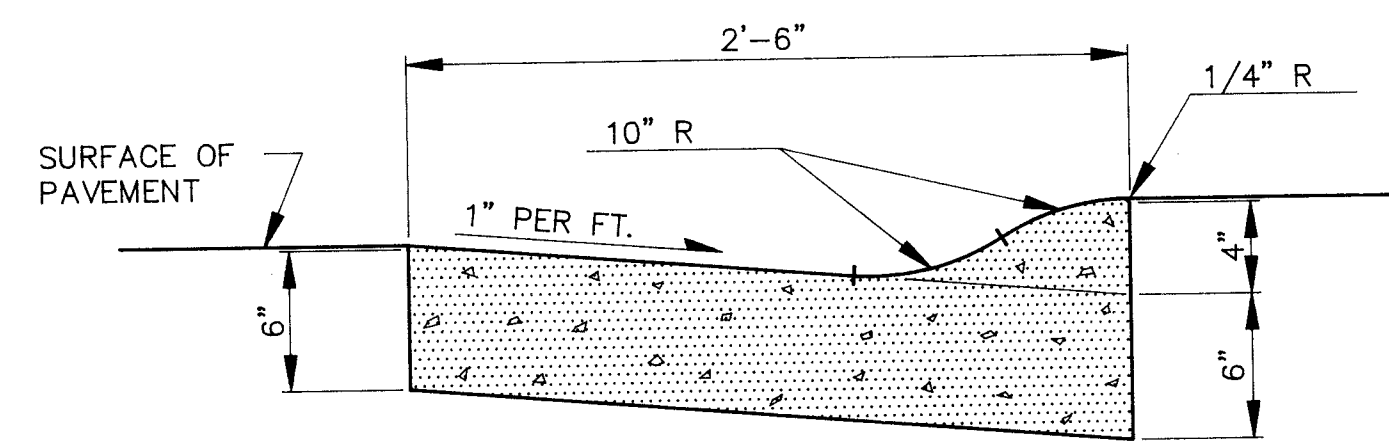
REV AS PER SUB'D ENGIN. COMMENTS 4-5-91 MLD
REV AS PER SAN. ENGIN. COMMENTS 4-5-91 MLD

HAMMONTREE & ASSOCIATES, LTD.
ENGINEERS PLANNERS SURVEYORS
CANTON-AKRON, OHIO
CANTON: 216/499-8817
PHONE AKRON: 216/633-7274



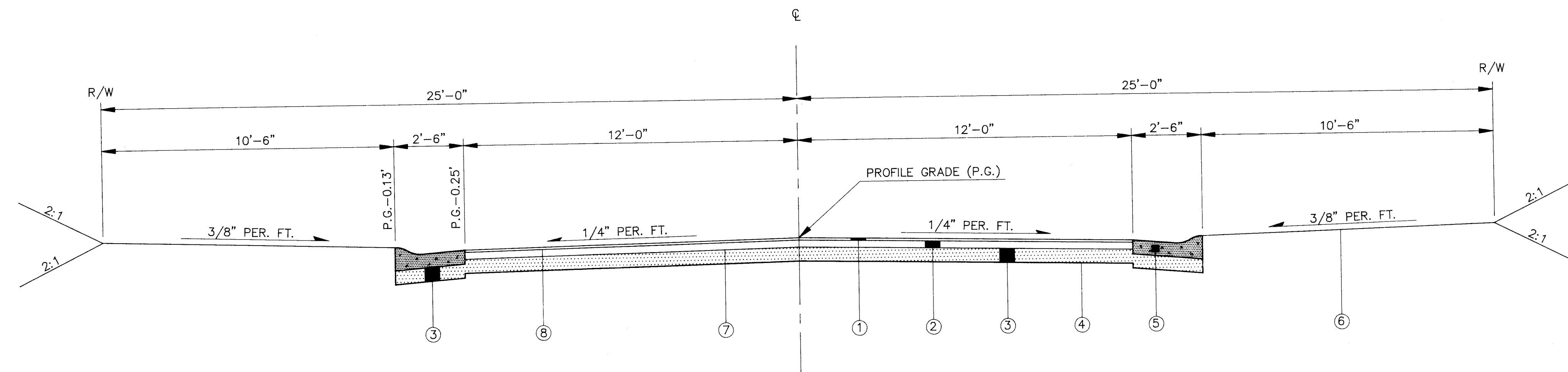
50' R/W TYPICAL SECTION

SCALE: 3/8"=1'



ITEM 609 - TYPE 3
CONCRETE CURB & GUTTER

SCALE: 1-1/2"=1'



- ① ITEM 404 1" ASPHALT CONCRETE
- ② ITEM 301 3" BITUMINOUS AGGREGATE BASE
- ③ ITEM 304 6" AGGREGATE BASE (2-3" LIFTS)
- ④ ITEM 203.13 COMPACTED SUBGRADE
- ⑤ ITEM 609 TYPE 3 CONCRETE CURB AND GUTTER (SEE DETAIL)
- ⑥ ITEM 659 SEEDING AND MULCHING
- ⑦ ITEM 408 PRIME COAT TO BE APPLIED AT THE RATE OF 0.4 GAL./SQ. YD.
- ⑧ ITEM 407 TACK COAT TO BE APPLIED AT THE RATE OF 0.4 GAL./SQ. YD. (AS REQUIRED)

ESTIMATED QUANTITIES

ITEM*	QUAN.	UNIT	DESCRIPTION
EARTHWORK & ROADS			
203	6,000	CU. YD.	EXCAVATION (ROADS ONLY)
203	8,814	SQ. YD.	SUBGRADE COMPACTION
301	620	CU. YD.	3" BITUMINOUS AGGREGATE BASE
304	1,469	CU. YD.	6" AGGREGATE BASE
404	207	CU. YD.	1" ASPHALT CONCRETE
407	AS REQ'D	GAL.	TACK COAT (0.4 GAL./SQ. YD.)
408	2,976	GAL.	PRIME COAT (0.4 GAL./SQ. YD.)
604	6	EACH	STANDARD COUNTY MONUMENT
609	5,122	LIN. FT.	TYPE 3 CONCRETE CURB AND GUTTER
659	5,575	SQ. YD.	SEEDING AND MULCHING
SANITARY			
14	1,914	LIN. FT.	8" P.V.C. GRAVITY SEWER PIPE, ASTM D-3034
14A	45	EACH	6" ON 8" WYE W/6" 30' BEND, ASTM D-3034
14C	1,673	LIN. FT.	6" P.V.C. GRAVITY SEWER PIPE, ASTM D-3034
16	7	EACH	MANHOLE COMPLETE
16A	1	EACH	DROP ATTACHMENT
14B	1	EACH	6" ON 8" SERVICE STACK, ASTM D-3034
DRAINAGE			
601	4.4	CU. YD.	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER
604	1	EACH	MANHOLE COMPLETE, MH-1
207	AS REQ'D	LIN. FT.	FILTER FABRIC FENCE
207	AS REQ'D	EACH	STRAW OR HAY BALES
602	0.81	CU. YD.	CONCRETE MASONRY (3 EA. HW-4B HEADWALLS)
603	175	LIN. FT.	12" TYPE "B" CONDUIT (706.02) OR APPROVED EQUAL
603	646	LIN. FT.	15" TYPE "B" CONDUIT (706.02) OR APPROVED EQUAL
603	160	LIN. FT.	15" TYPE "C" CONDUIT (706.02) OR APPROVED EQUAL
604	8	EACH	STANDARD CATCH BASIN
604	1	EACH	DOUBLE CATCH BASIN
667	163	SQ. YD.	SEEDING AND JUTE MATTING
207	AS REQ'D	LUMP	TEMPORARY SEDIMENT BASIN
603	80	LIN. FT.	18" TYPE "C" CONDUIT (706.02) OR APPROVED EQUAL

* ITEM NUMBERS FOR EARTHWORK & ROADS & DRAINAGE REFER TO STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, CONSTRUCTION & MATERIAL SPECIFICATIONS, JANUARY 1, 1989.
ITEM NUMBERS FOR SANITARY REFER TO STARK COUNTY SANITARY ENGINEERING DEPT., ITEM SPECIFICATIONS, DECEMBER 1, 1978.

GENERAL NOTES

ALL SUBGRADE COMPACTION AND ALL 304 AGGREGATE BASE SHALL BE INSPECTED AND APPROVED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO PLACEMENT OF ANY 304 AGGREGATE BASE OR 301 BITUMINOUS AGGREGATE BASE.

ALL TRENCHES BENEATH THE PROPOSED PAVEMENT OR EXISTING PAVEMENT SHALL BE COMPACTED IN LIFTS. IN A MANNER, AND WITH MATERIAL SPECIFIED BY THE SANITARY AND SUBDIVISION ENGINEERING DEPARTMENTS OR ANY APPLICABLE, O.D.O.T. SPECIFICATIONS.

THE COMPLETE RIGHT-OF-WAY IS TO BE GRADED AS SHOWN ON THE TYPICAL SECTION. DURING THE HOUSING CONSTRUCTION PHASE, THE DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING THE TYPICAL SECTION BETWEEN THE PAVEMENT AND THE RIGHT-OF-WAY LINE.

A PRECONSTRUCTION MEETING IS TO BE SET UP BY THE SEWER CONTRACTOR AND PAVEMENT CONTRACTOR WITH THE SUBDIVISION ENGINEERING OFFICE (438-0841) AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE START OF CONSTRUCTION.

ALL STORM SEWER PIPE TO BE 706.02 TYPE B R.C.P. CLASS B BEDDING W/GRANULAR BACKFILL UNLESS OTHERWISE NOTED.

THE DEVELOPER/CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO PREVENT SOIL EROSION AND DOWNWASH OF GRITS AND SEDIMENTS AS REQUIRED BY THE STARK COUNTY SUBDIVISION ENGINEER.

SANITARY SEWER NOTES

PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT MR. PETAR PAICH OF THE SANITARY ENGINEER'S OFFICE (216/438-9310) TO SCHEDULE A PRECONSTRUCTION MEETING. A MINIMUM OF 72 HOURS NOTICE IS REQUIRED TO SCHEDULE THIS MEETING.

ALL SANITARY SEWERS & APPURTENANCES SHALL BE CONSTRUCTED ACCORDING TO STARK COUNTY SANITARY ENGINEERING DEPARTMENT SPECIFICATIONS IN EFFECT AT TIME OF CONSTRUCTION.

ALL SANITARY SEWER LATERALS TO BE 6" DIAMETER.

ALL SANITARY SERVICE SEWERS SHALL EXTEND A MINIMUM OF 5 FEET INTO EACH LOT. THE END OF THE SERVICE SEWER SHALL BE PLUGGED AND A LOCATION MARKER PROVIDED.

NO CHANGES TO SANITARY SERVICE LOCATIONS SHALL BE MADE WITHOUT THE APPROVAL OF THE SANITARY ENGINEER.

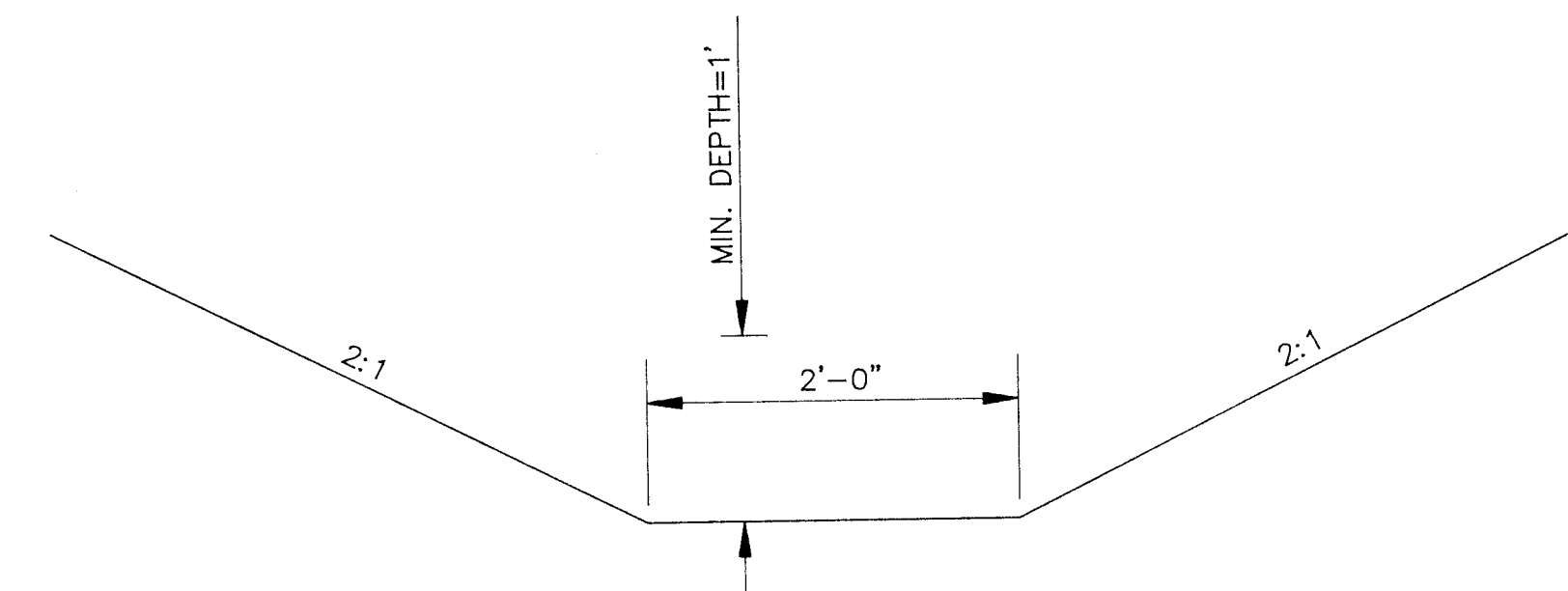
STORM SEWER NOTES

- ① STRAW OR HAY BALES AND/OR FILTER FABRIC FENCE TO BE PLACED AS REQUIRED DURING CONSTRUCTION AT THE DIRECTION OF THE COUNTY.

APPROVED _____ DATE _____
MASSILLON CITY ENGINEER

APPROVED _____ DATE _____
STARK COUNTY SANITARY ENGINEER

APPROVED _____ DATE _____
STARK COUNTY SUBDIVISION ENGINEER



TYPICAL DITCH SECTION

FOR OUTLET DITCHES
ON BASELINE "T", "V" & "W"

SCALE: 1"=1'

ESTATES OF GLENMOOR NO. 4

TYPICAL SECTION & DETAILS
ESTIMATED QUANTITIES
NOTES

REVISION BY: MLD DATE: 4-5-91 DESCRIPTION: AS PER SUB'D ENGIN. COMMENTS
CHECKED BY: MLD DATE: 3-11-91
REVISION BY: MLD DATE: 4-5-91 DESCRIPTION: AS PER SAN. ENGIN. COMMENTS

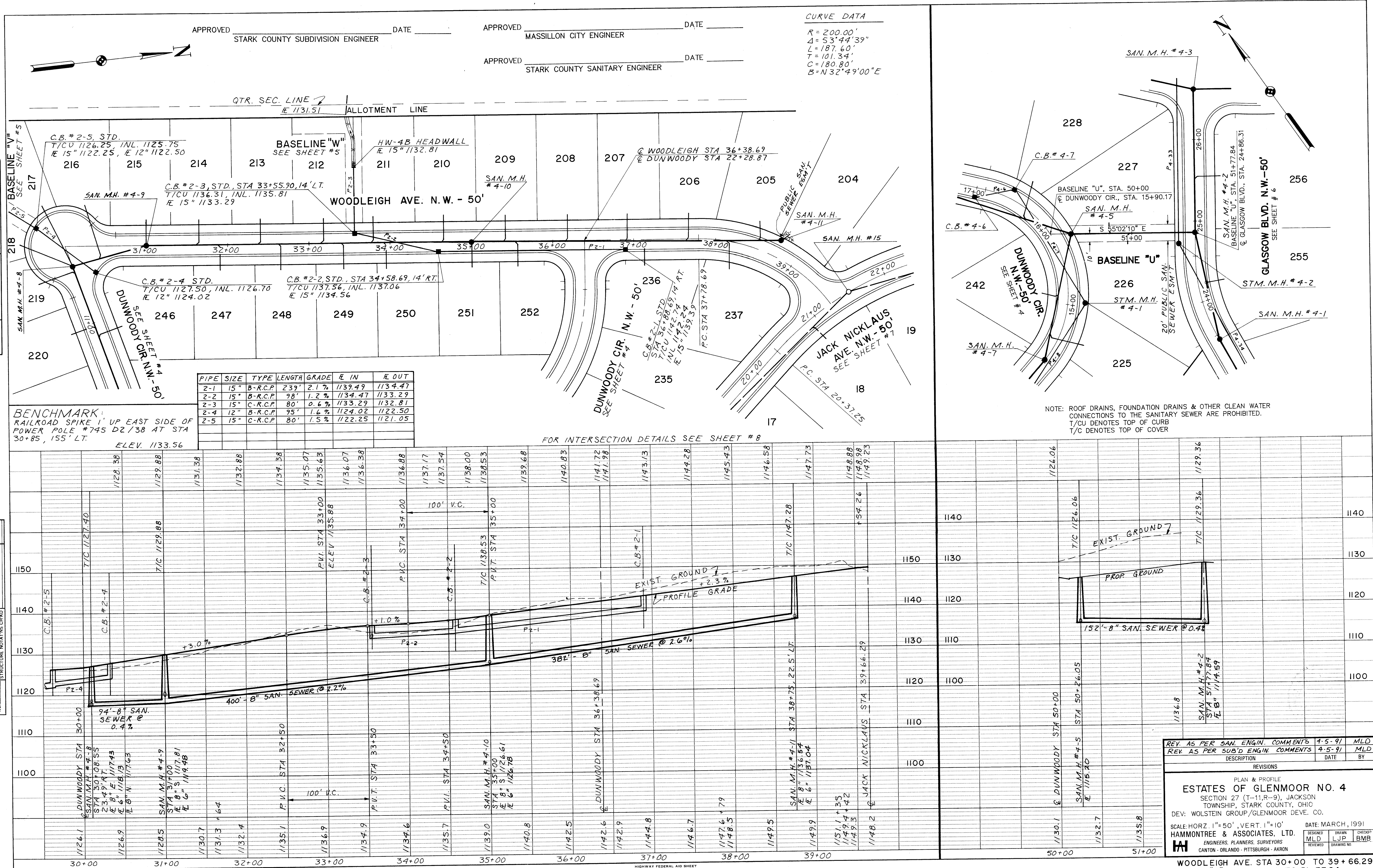
DRAWN BY: DTM DATE: 3-11-91
CHECKED BY: MLD DATE: 3-11-91
COPYRIGHT 19 91

F.B. _____ PAGE _____
SCALE: AS NOTED
DWG. NO. _____

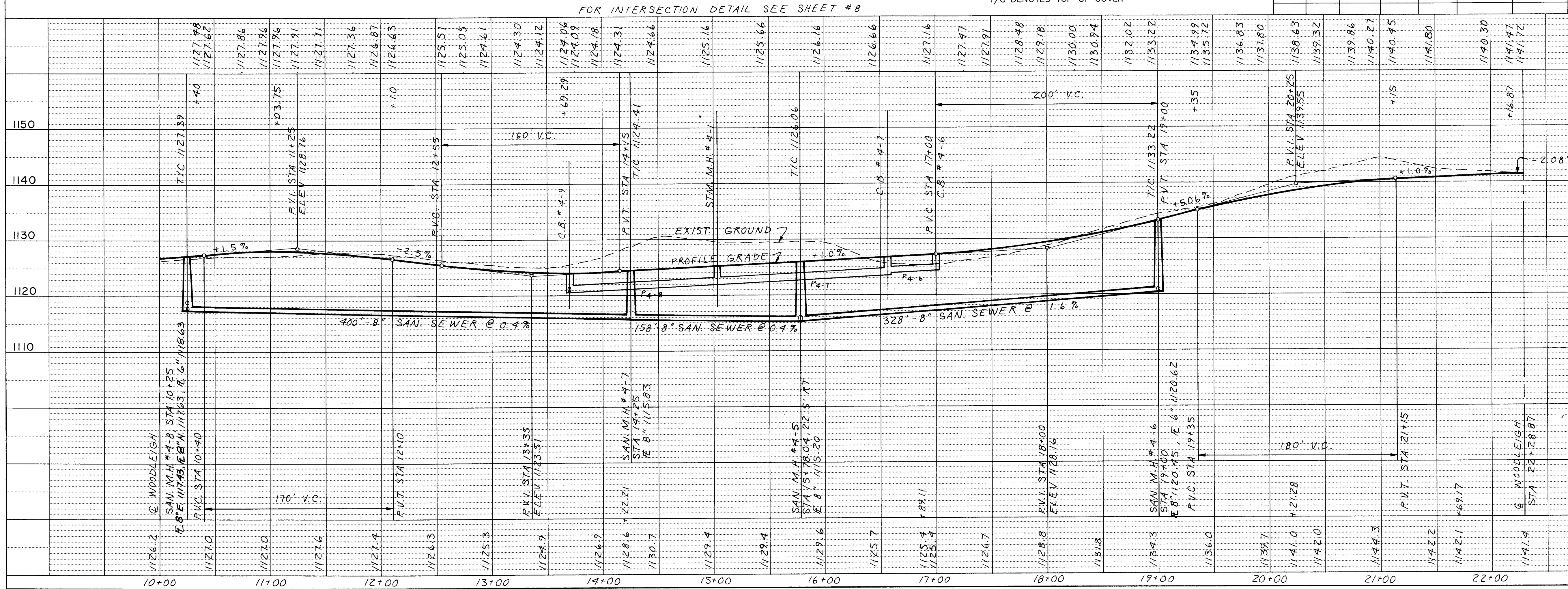
HAMMONTREE & ASSOCIATES, LTD.
ENGINEERS PLANNERS SURVEYORS
CANTON-AKRON, OHIO
CANTON: 216/499-8817
PHONE
AKRON: 216/533-7214



PROFILE		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	GRADES CHECKED		
	B. M.'s NOTED		
NO			



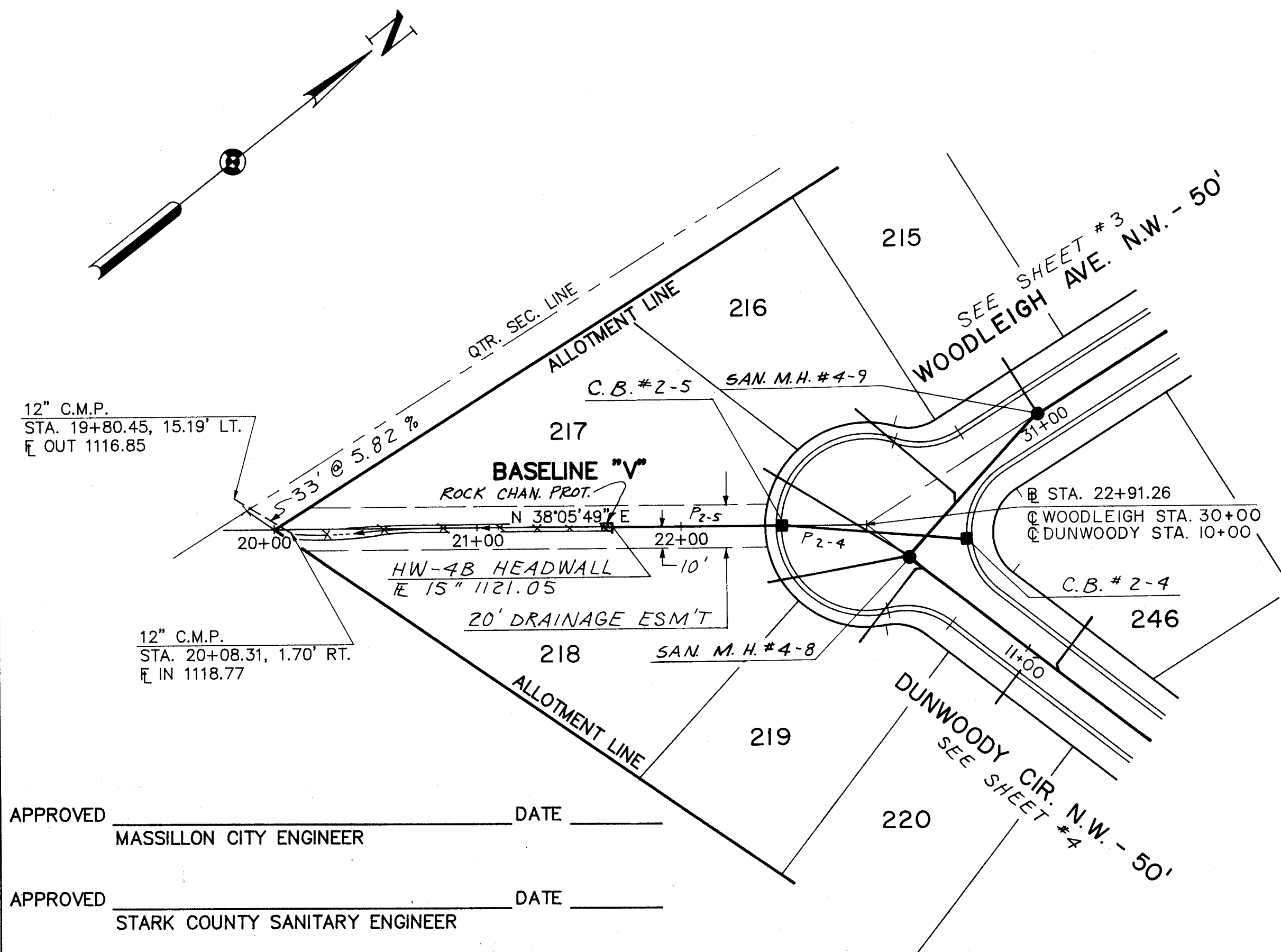
PROFILE	SURVEYED.....	BY	DATE
	PLOTTED.....		
	GRADES CHECKED.....		
	B. M.'s NOTED.....		
	STRUCTURE NOTATIONS GIVEN.....		
NOTE BOOK			
NO.			



BENCHMARK:
RAILROAD SPIKE 1' UP EAST SIDE OF
POWER POLE # 745 D2/38 AT STA
30+85, 155' LT.
ELEV. 1133.56

REV. AS PER SAN ENGIN.	COMMENTS	4-5-91	MLD
REV. AS PER SUB'D ENGIN	COMMENTS	4-6-91	MLD
DESCRIPTION		DATE	BY
REVISIONS			
PLAN & PROFILE			
ESTATES OF GLENMOOR NO. 4			
SECTION 27 (T-11,R-9), JACKSON			
TOWNSHIP, STARK COUNTY, OHIO			
DEV: WOLSTEIN GROUP/GLENMOOR DEVE. CO.			
SCALE: HORIZ. 1"= 50', VERT. 1"= 10'		DATE: MARCH, 1991	
HAMMORTHE & ASSOCIATES, LTD.			
ENGINEERS, PLANNERS, SURVEYORS			
CANTON - ORLANDO - PITTSBURGH - AKRON			
	DESIGNED	DRAWN	CHECKED
	MLD	LJP	BMB
	REVIEWED	DRAWING NO.	

PLAN	SURVEYED	DATE
	BY	
NOTE BOOK	ALIGNED	
	CHECKED	
NO.	RT. OF WAY	
	CHECKED	

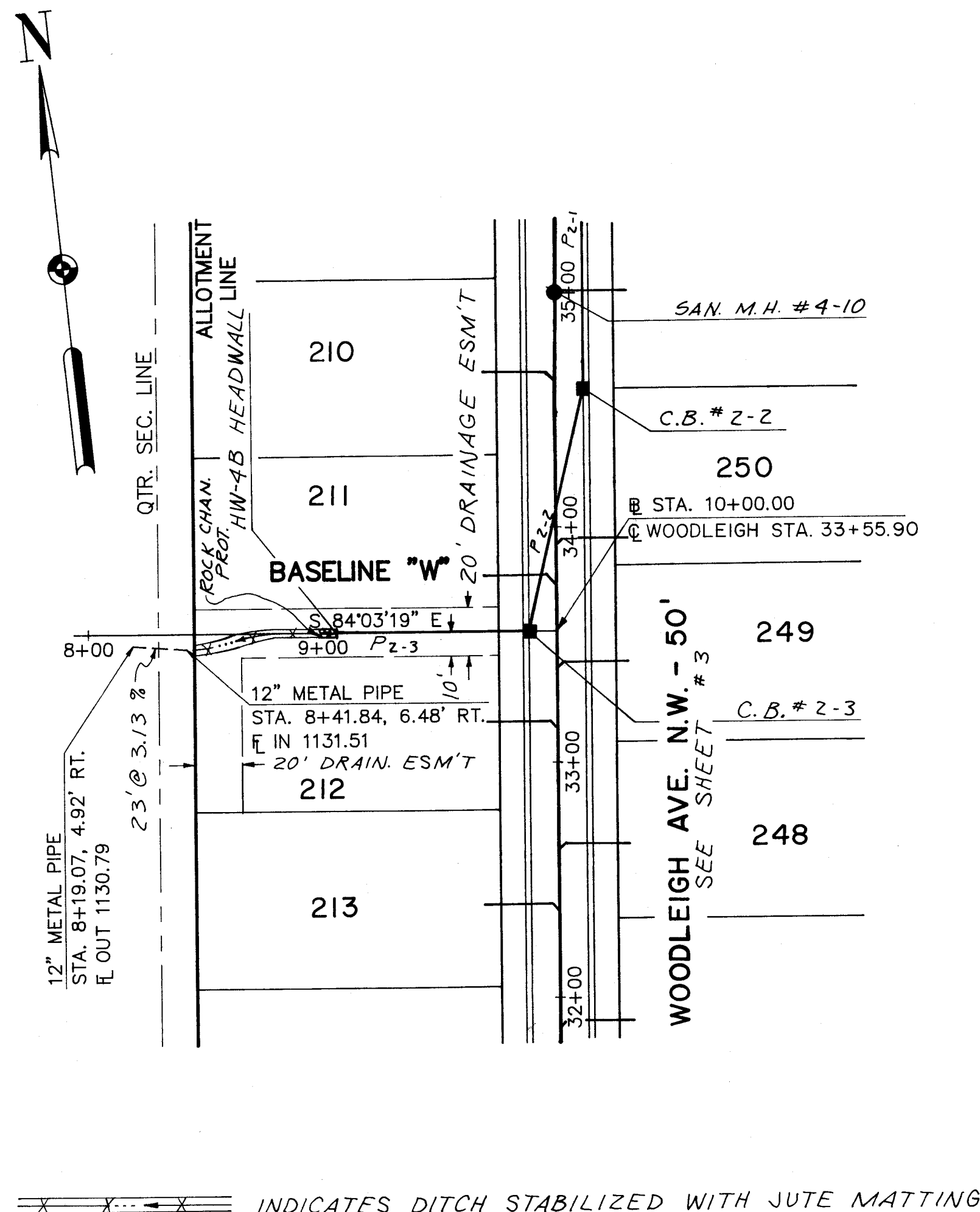
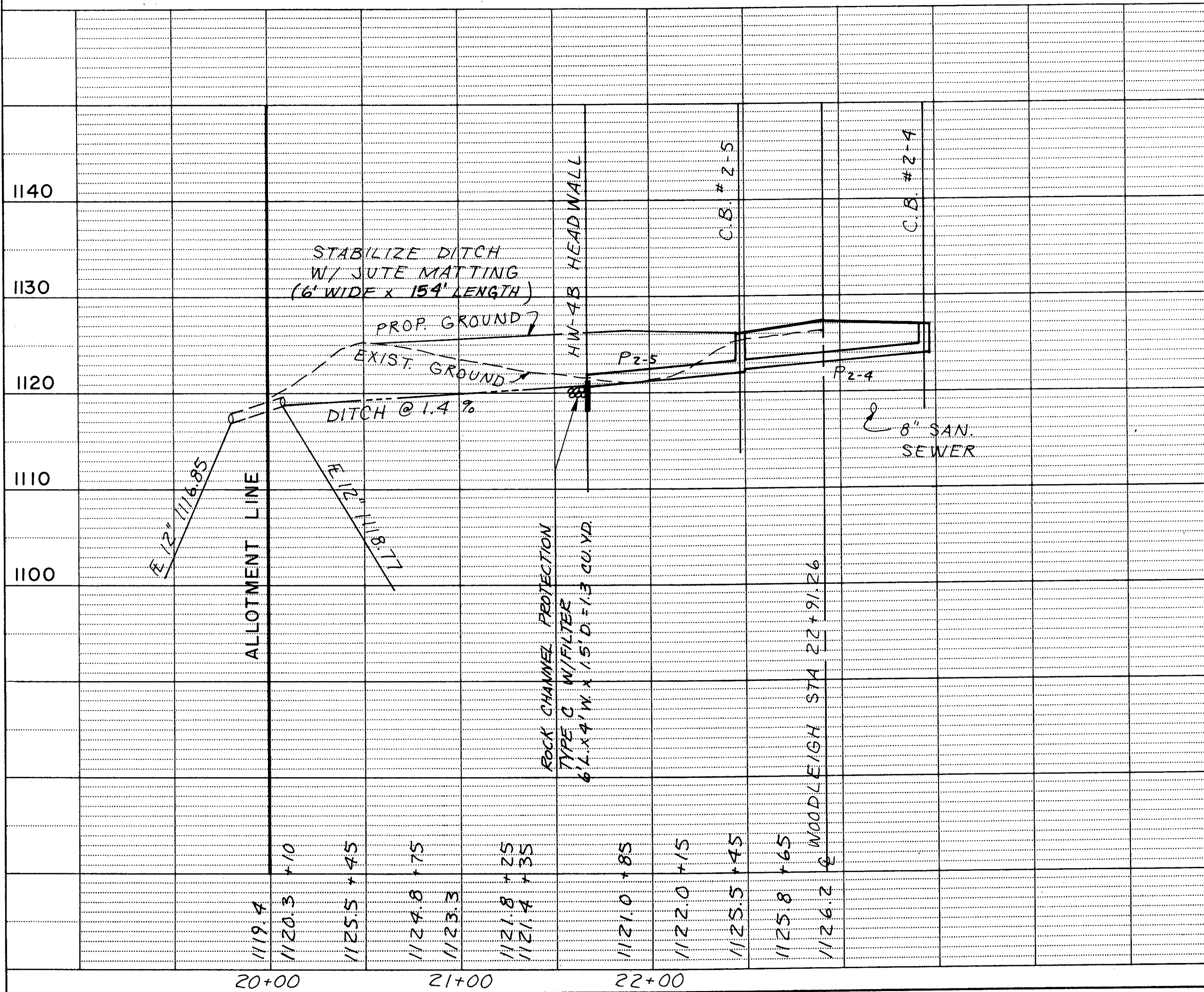


APPROVED _____ DATE _____
 MASSILLON CITY ENGINEER

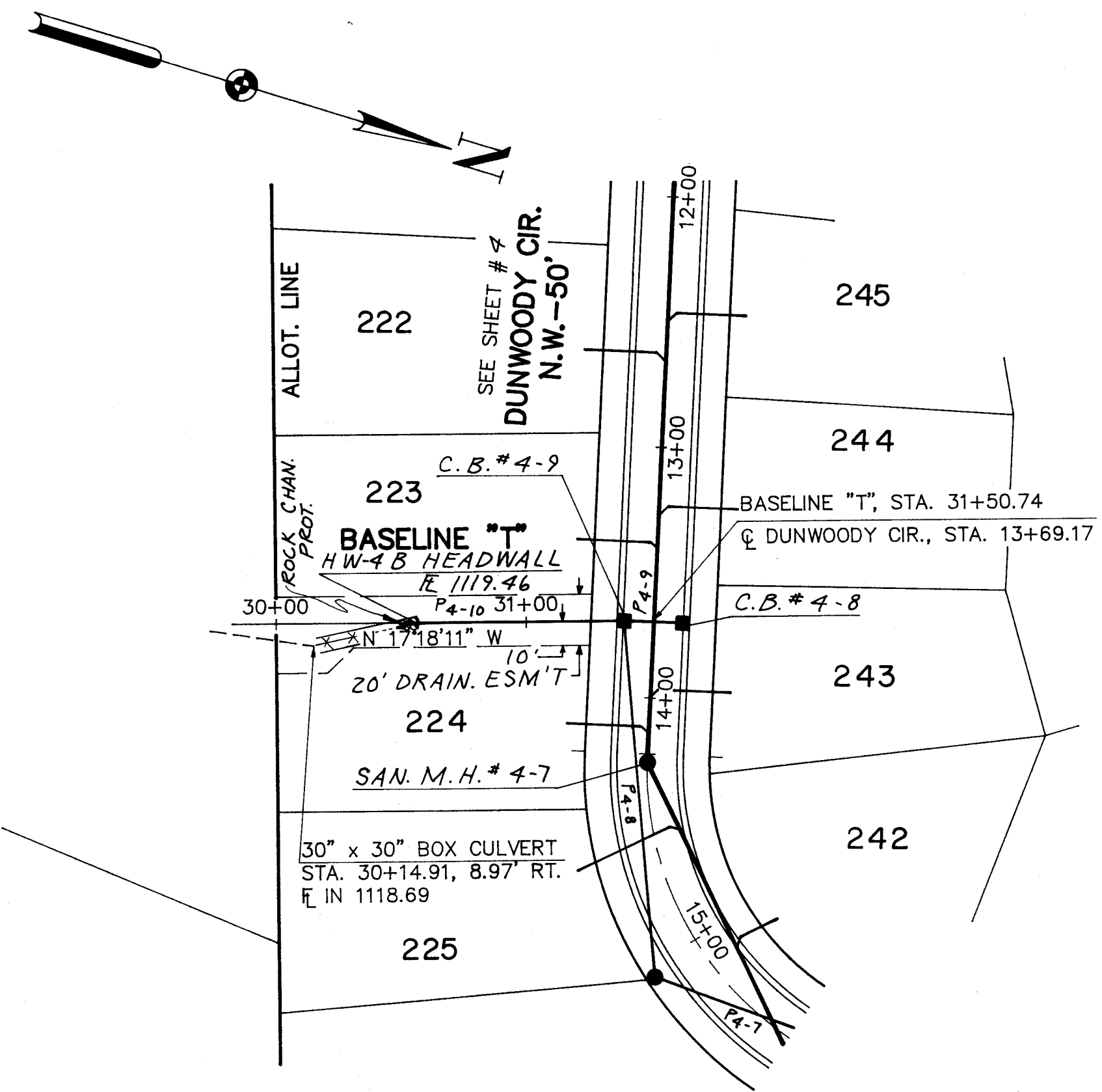
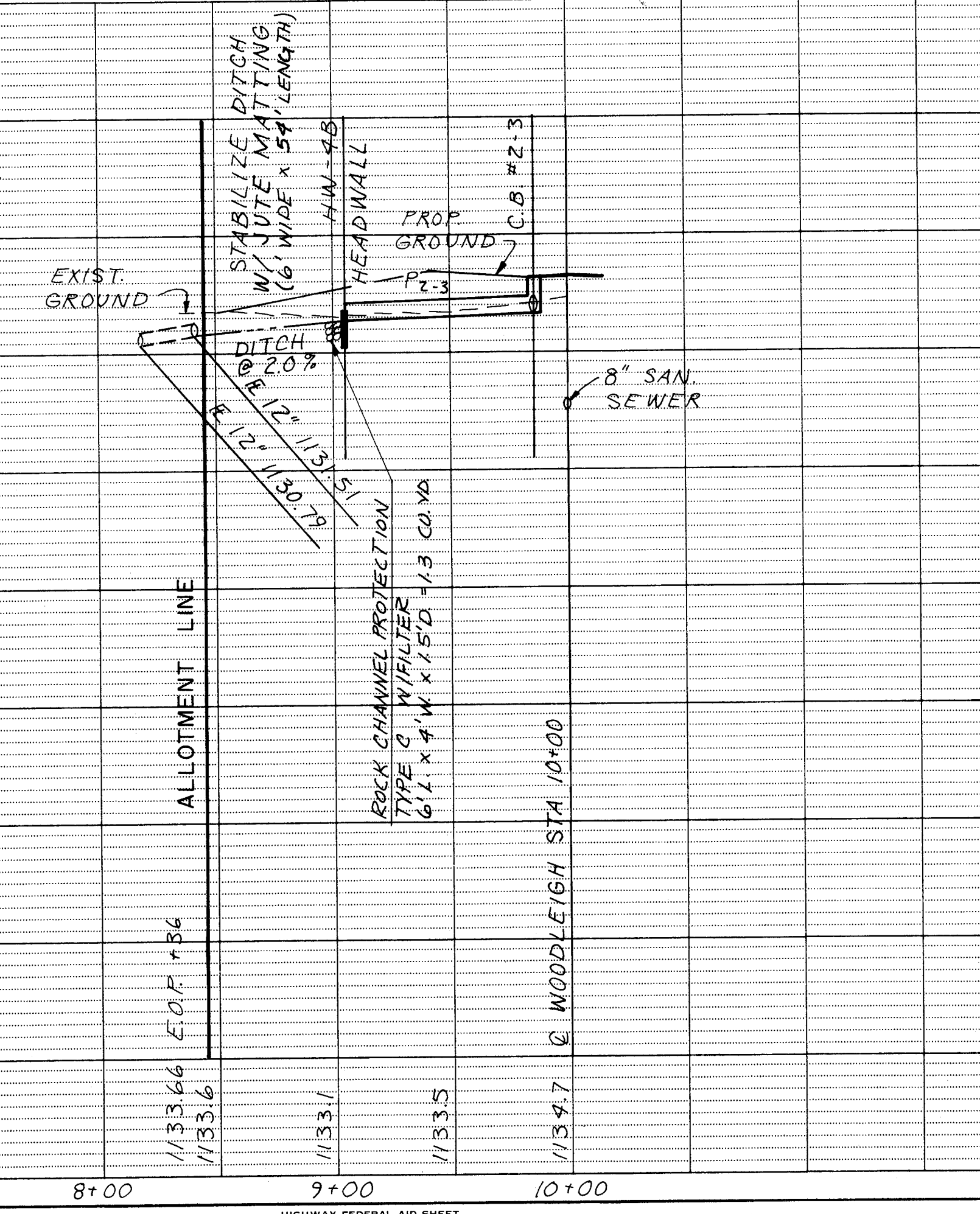
APPROVED _____ DATE _____
 STARK COUNTY SANITARY ENGINEER

APPROVED _____ DATE _____
 STARK COUNTY SUBDIVISION ENGINEER

PROFILE	SURVEYED	DATE
	BY	
NOTE BOOK	ALIGNED	
	CHECKED	
NO.	STRUCTURE	
	NOTATIONS	

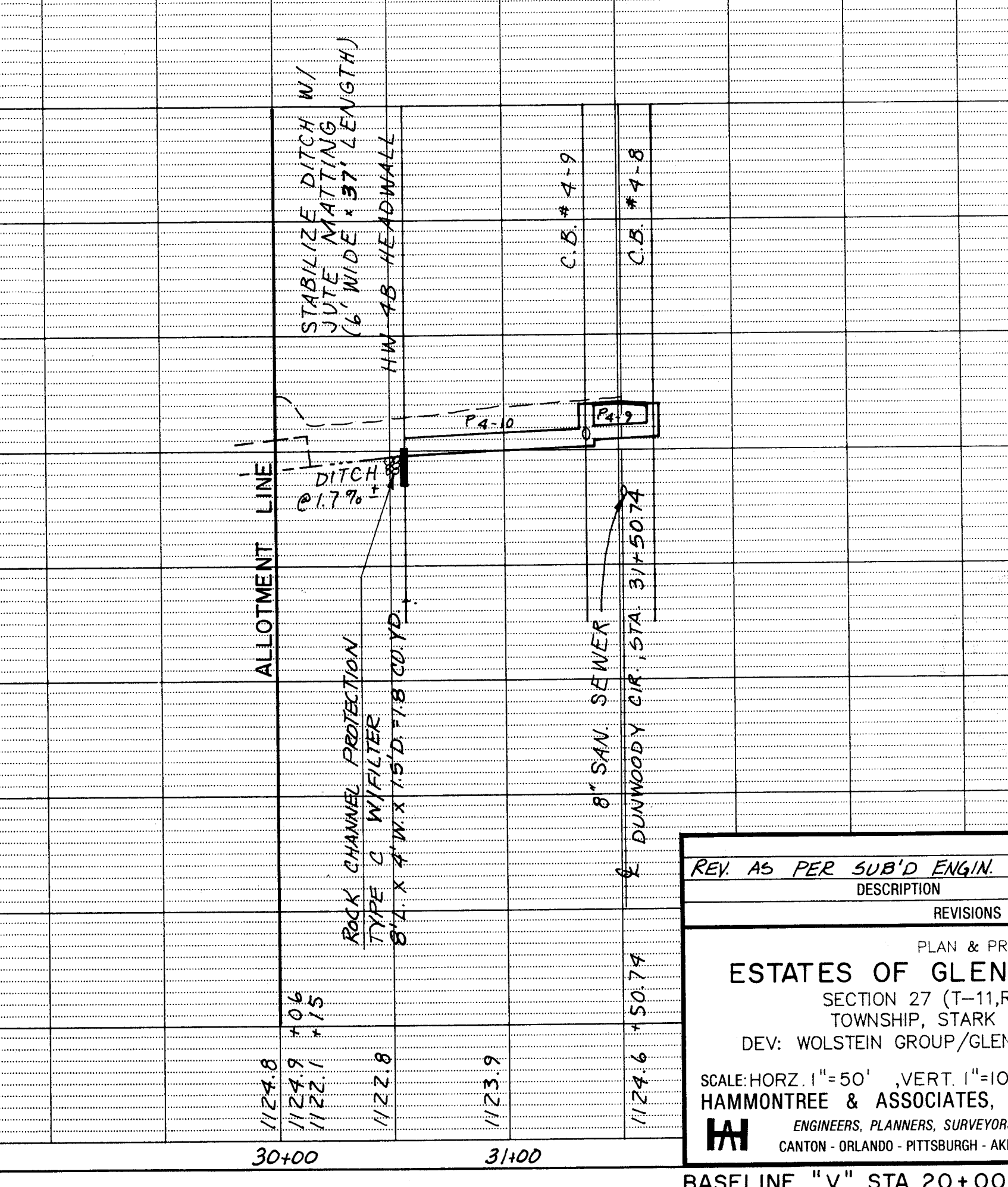


INDICATES DITCH STABILIZED WITH JUTE MATTING



NOTE: ROOF DRAINS, FOUNDATION DRAINS & OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED

T/CU DENOTES TOP OF CURB
 T/C DENOTES TOP OF COVER



REV. AS PER SUB'D ENGIN. COMMENTS 4-5-91		DATE	BY
ESTATES OF GLENMOOR NO. 4			
SECTION 27 (T-11, R-9), JACKSON			
TOWNSHIP, STARK COUNTY, OHIO			
DEV: WOLSTEIN GROUP/GLENMOOR DEVE. CO.			
SCALE: HORIZ. 1"=50', VERT. 1"=10'			
DATE: MARCH, 1991			
HAMMONTREE & ASSOCIATES, LTD.			
ENGINEERS, PLANNERS, SURVEYORS			
CANTON - ORLANDO - PITTSBURGH - AKRON			
REVIEWED	DRAWN	CHECKED	
M.L.D.	L.J.P.	B.M.B.	

BASELINE "V" STA 20+00 TO 22+91.26
 BASELINE "W" STA 8+45 TO 10+00
 BASELINE "T" STA 30+00 TO 31+50.74

PLAN	NO.	BY	DATE	SURVEYED	PLOTTED	ALIGNED	CHECKED	RT. OF WAY	CHECKED

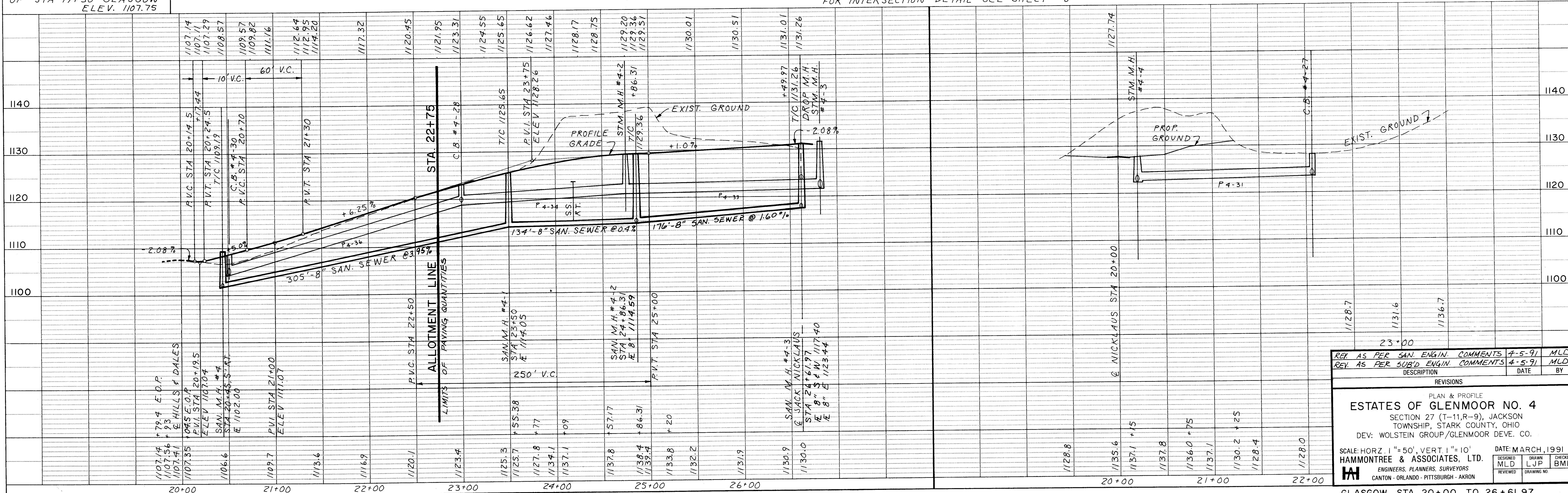
PROFILE	NO.	BY	DATE	SURVEYED	PLOTTED	GRADES	CHECKED	STRUCTURE	NOTATIONS	CHKD

BENCHMARK:
CHISELED "X" ON CENTER
OF HEADWALL 120' LT.
OF STA 19+30 GLASGOW
ELEV. 1107.75

CURVE ①
A=101.79'
R=200.00'
Δ=29°09'38"
Bch=N 20°23'01" E
C=100.69'
T=52.02'

SEE SHEET # 4

PIPE	SIZE	TYPE	LENGTH	GRADE	E IN	E OUT
4-33	24"	B-RCP	211'	0.3 %	1121.71	1121.08
4-34	24"	B-RCP	178'	1.4 %	1121.08	1118.59
4-35	12"	B-RCP	28'	2.0 %	1120.15	1119.59
4-36	24"	B-RCP	248'	5.84 %	1118.59	1104.10
4-37	12"	B-RCP	37'	0.5 %	1105.37	1105.18
4-37A	24"	B-RCP	54'	0.5 %	1140.10	1103.83



NOTE: C.B.#4-27 & C.B.#4-27A
TO CONNECT WITH
GOLF COURSE DRAINAGE.

APPROVED _____ DATE _____
MASSILLON CITY ENGINEER

APPROVED _____ DATE _____
STARK COUNTY SANITARY ENGINEER

APPROVED _____ DATE _____
STARK COUNTY SUBDIVISION ENGINEER

FOR INTERSECTION DETAIL SEE SHEET # 8

REV. AS PER SAN. ENGIN. COMMENTS	4-5-91	MLD
REV. AS PER SUB'D ENGIN. COMMENTS	4-5-91	MLD
DESCRIPTION	DATE	BY
REVISIONS		
PLAN & PROFILE		
ESTATES OF GLENMOOR NO. 4		
SECTION 27 (T-11, R-9), JACKSON		
TOWNSHIP, STARK COUNTY, OHIO		
DEV: WOLSTEIN GROUP/GLENMOOR DEVE. CO.		
SCALE: HORZ. 1"=50', VERT. 1"=10'		
DATE: MARCH, 1991		
HAMMONTREE & ASSOCIATES, LTD.		
ENGINEERS, PLANNERS, SURVEYORS		
CANTON - ORLANDO - PITTSBURGH - AKRON		
DESIGNED	DRAWN	CHECKED
MLD	LJP	BMB
REVIEWED	DRAWING NO.	

GLASGOW STA 20+00 TO 26+61.97
BASELINE "J" STA 20+00 TO 23+00
SHEET 6 OF 13

PLAN	DATE	BY
SURVEYED		
PLOTTED		
CHECKED		
NOTED		
NO.		

PROFILE	DATE	BY
SURVEYED		
PLOTTED		
CHECKED		
NOTED		
NO.		

NOTE TO WATERLINE CONTRACTOR:
USE CAUTION IN THIS AREA
AS SEWER LATERAL TO LOT B
IS SHALLOW.

FOR INTERSECTION
DETAIL SEE SHEET
29

CURVE DATA ①
R=498.22'
Δ=25°48'22"
A=224.40'
T=114.14'
C=222.51'
Bch=N 54°35'25" W

CURVE DATA ②
R=375.71'
Δ=45°03'20"
A=295.45'
T=155.84'
C=287.89'
Bch=N 19°09'34" W

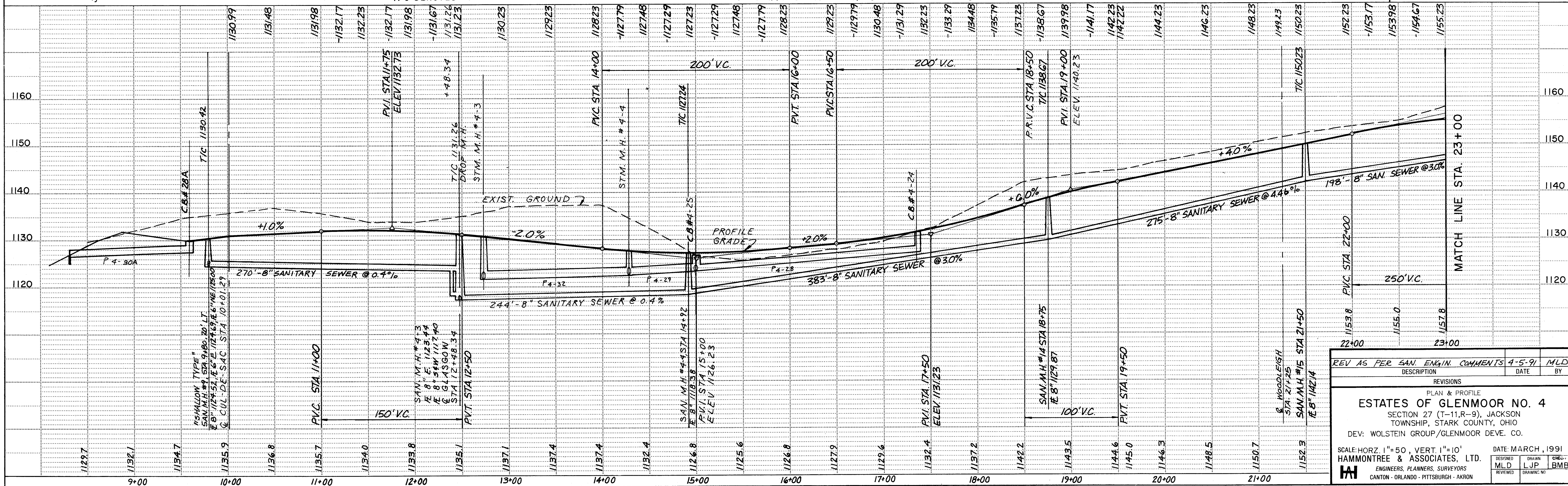
HW-4B
STA 8+34.40 LT
C.B.#28A, (STD)
T/CU = 1130.07
INV. = 1129.57
E = 1127.15

DRAINAGE
EASEMENT

SERVICE SEWER TO LOT
1-10 EXTEND AT LEAST
5' BEYOND STM. SEWER

NOTE: ROOF DRAINS, FOUNDATION DRAINS & OTHER CLEAN WATER
CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED
T/CU DENOTES TOP OF CURB
T/C DENOTES TOP OF COVER

FOR INTERSECTION DETAILS SEE SHEET # 8

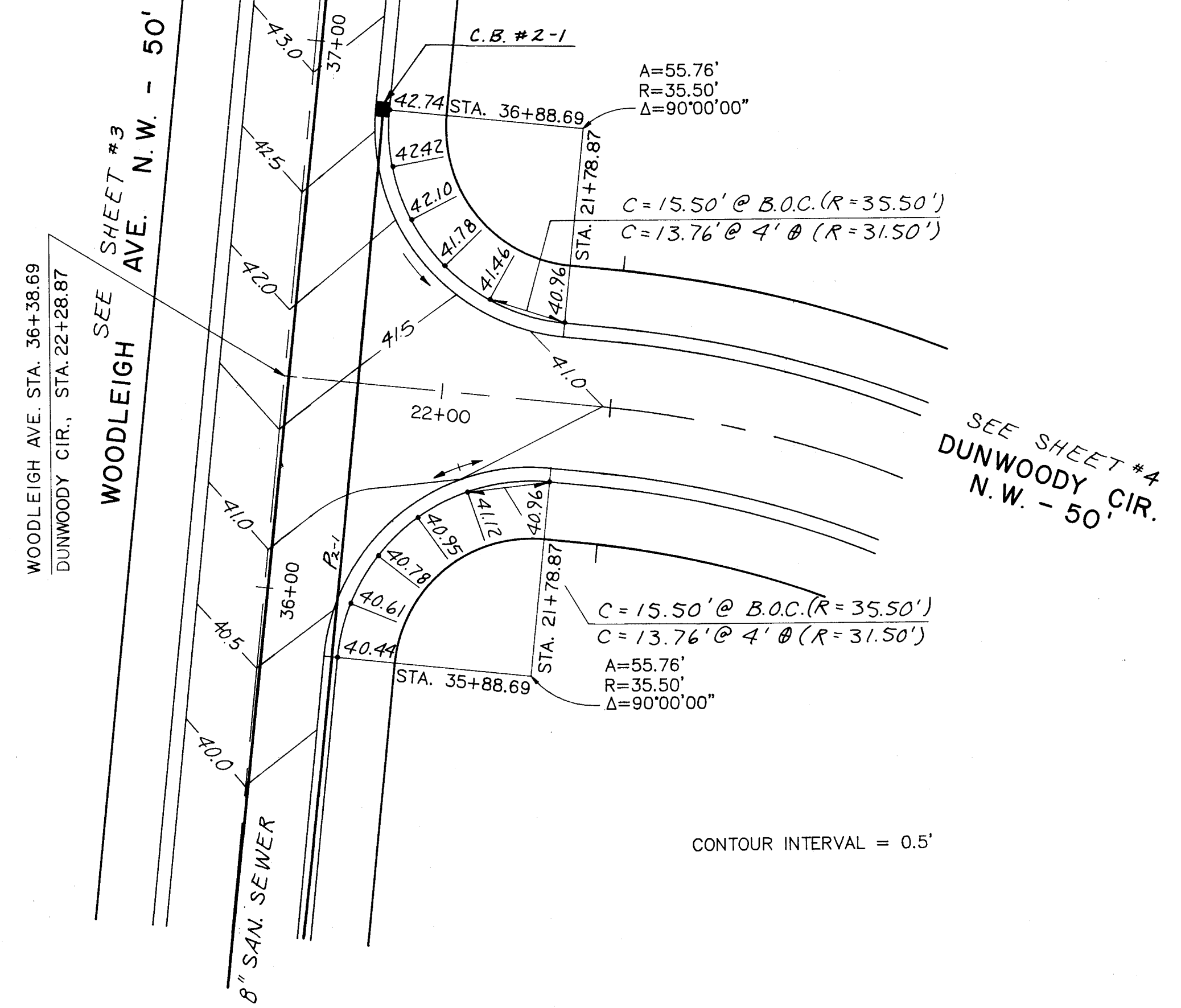


PIPE	SIZE	TYPE	LENGTH	GRADE	E IN	E OUT
4-28	15"	B-RCP	235'	1.6 %	1127.26	1123.50
4-29	12"	B-RCP	28'	2.0 %	1123.75	1124.31
4-30	15"	B-RCP	72'	1.15 %	1123.50	1122.67
4-31A	18"	C-RCP	250'	0.5 %	1124.65	1123.40
4-31	18"	C-RCP	195'	0.5 %	1123.40	1122.42
4-32	24"	C-RCP	155'	0.3 %	1122.17	1121.71

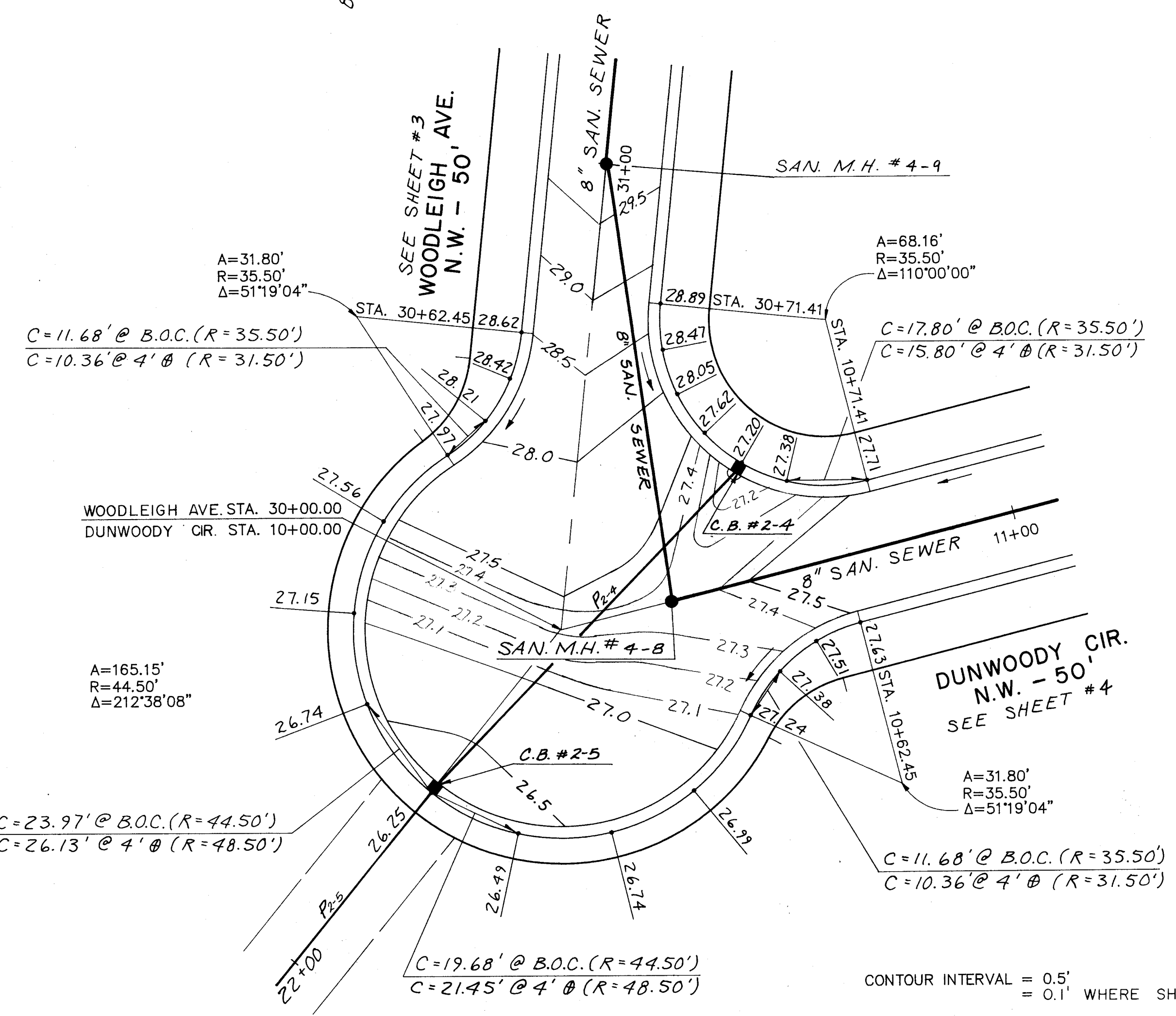
BENCHMARK:
RAILROAD SPIKE SET 1 FOOT UP
EAST SIDE OF 12th ASH AT
STATION 12+65.160 ± LEFT
OF JACK NICKLAUS AVE.
ELEV. 1135.21

REV	AS PER	SAN. ENGR.	COMMENTS	4-5-91	MLD
				DATE	BY
REVISIONS PLAN & PROFILE ESTATES OF GLENMOOR NO. 4 SECTION 27 (T-11,R-9), JACKSON TOWNSHIP, STARK COUNTY, OHIO DEV: WOLSTEIN GROUP/GLENMOOR DEVE. CO. SCALE: HORIZ. 1"=50', VERT. 1"=10' HAMMONTREE & ASSOCIATES, LTD. ENGINEERS, PLANNERS, SURVEYORS CANTON - ORLANDO - PITTSBURGH - AKRON					
				DATE MARCH, 1991	
				RESPONSED	CRK.
				MLD	LJP
				REVIEWED	BMB
				DRAWING NO.	

JACK NICKLAUS AVE. STA 10+01.29 TO 23+00



CONTOUR INTERVAL = 0.5'



CONTOUR INTERVAL = 0.5',
= 0.1' WHERE SHOWN

NOTES:

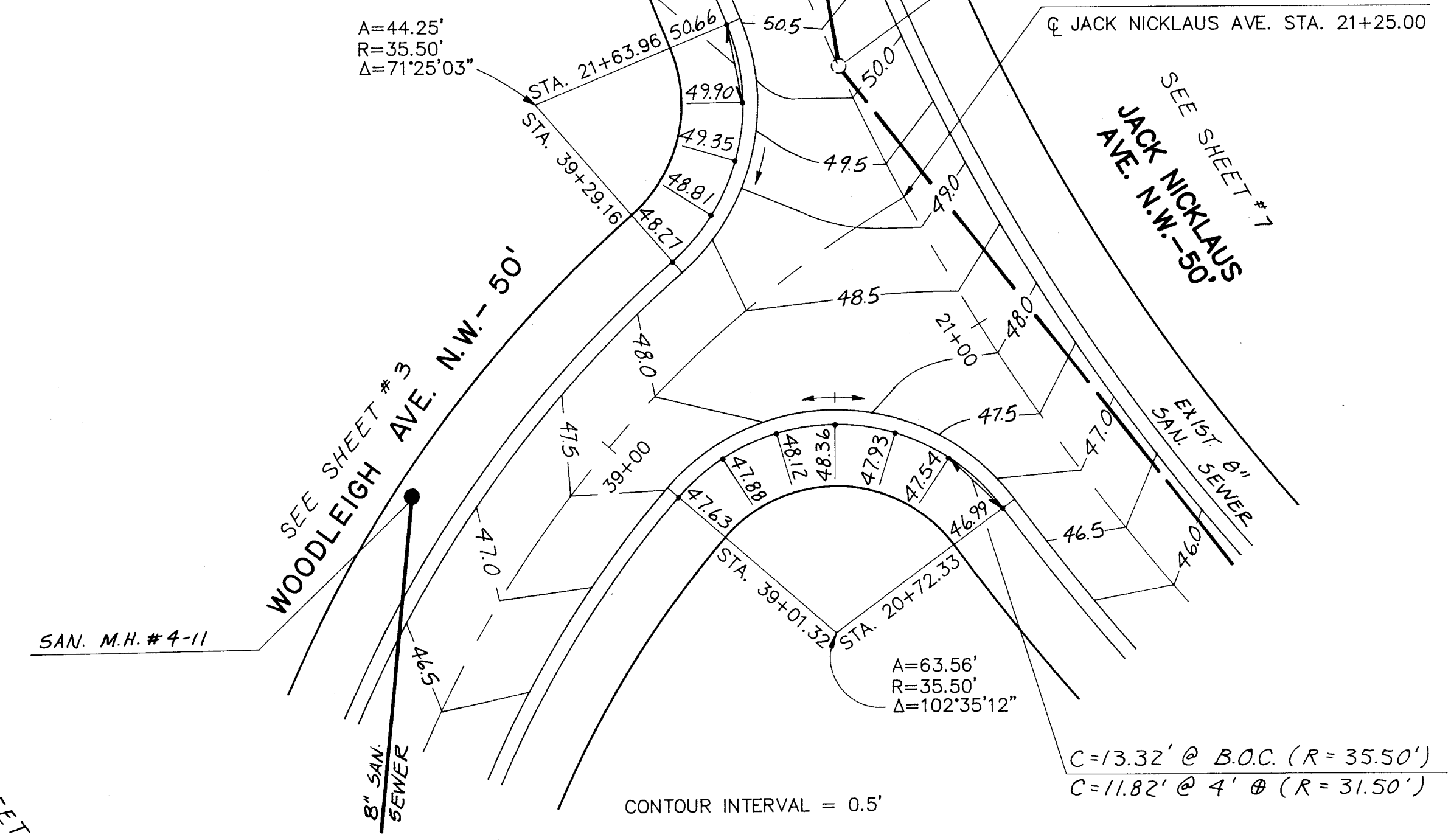
B.O.C. DENOTES BACK OF CURB.
4' @ DENOTES 4' OFFSET FOR CURB STAKES.
CHORD DISTANCES ON FILLETS ARE 10' @ B.O.C. (R=35.5')
& 8.87' @ 4' (R=31.5') UNLESS NOTED.
CHORD DISTANCES ON CUL-DE-SACS AND BUBBLES ARE 20' @ B.O.C. (R=44.5')
& 21.80' @ 4' (R=48.5') UNLESS NOTED.
ADD 1100' TO ELEVATIONS.
CONTOUR INTERVAL AS NOTED.

APPROVED _____ DATE _____
MASSILLON CITY ENGINEER

APPROVED _____ DATE _____
STARK COUNTY SANITARY ENGINEER

APPROVED _____ DATE _____
STARK COUNTY SUBDIVISION ENGINEER

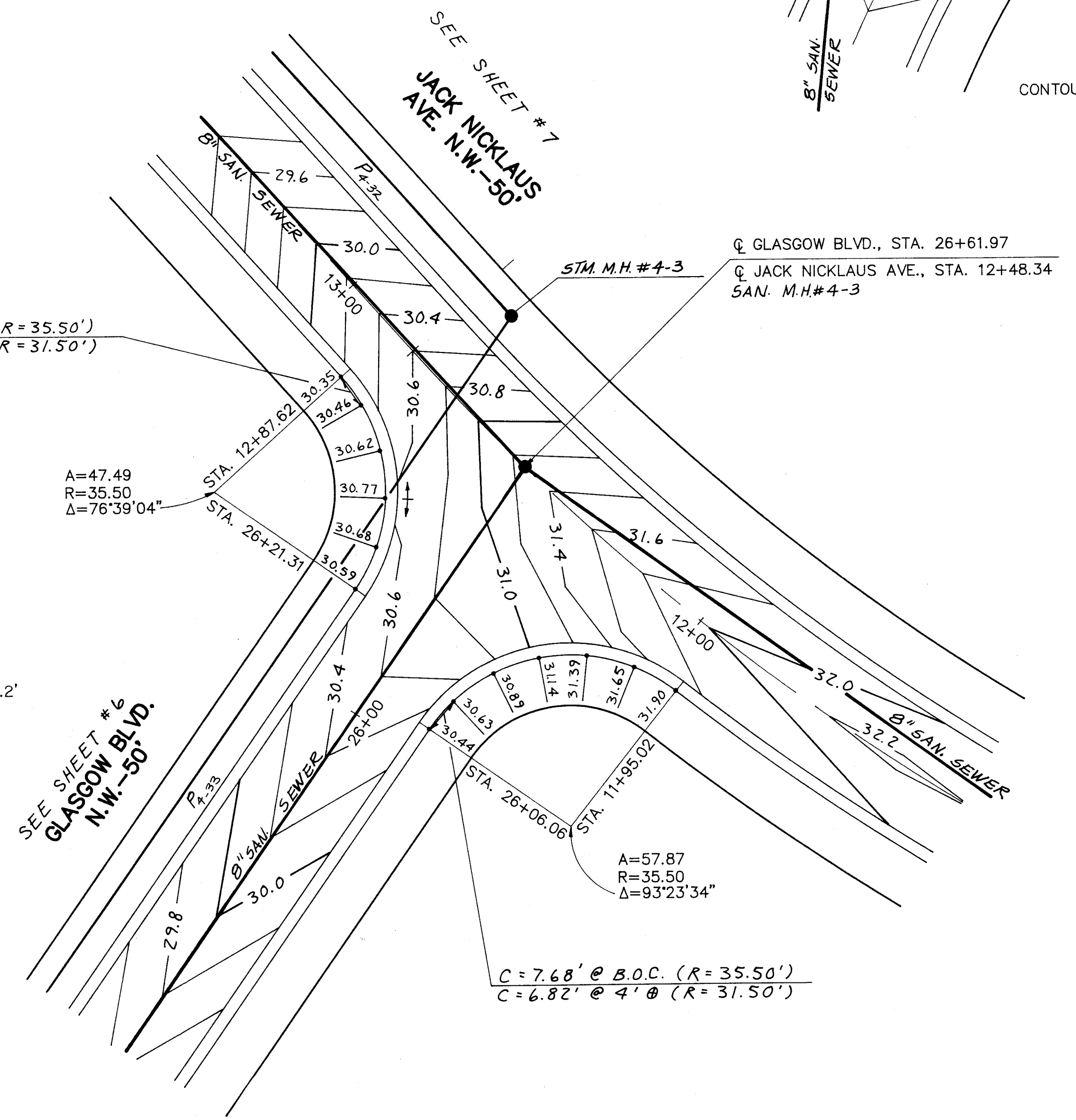
C=14.06' @ B.O.C. (R=35.50')
C=12.47' @ 4' (R=31.50')



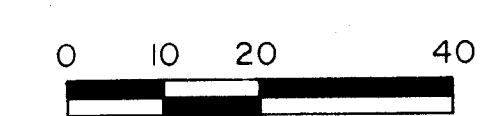
CONTOUR INTERVAL = 0.5'

C=7.35' @ B.O.C. (R=35.50')
C=6.52' @ 4' (R=31.50')

CONTOUR INTERVAL = 0.2'



INTERSECTION DETAILS
ESTATES OF GLENMOOR NO. 4
WOODLEIGH AVE. & DUNWOODY CIR. (NORTH)
WOODLEIGH AVE. & DUNWOODY CIR. (SOUTH)
WOODLEIGH AVE. & JACK NICKLAUS AVE.
GLASGOW BLVD. & JACK NICKLAUS AVE.



REVISION BY: _____ DATE: _____ DESCRIPTION: _____

REVISION BY: _____ DATE: _____ DESCRIPTION: _____

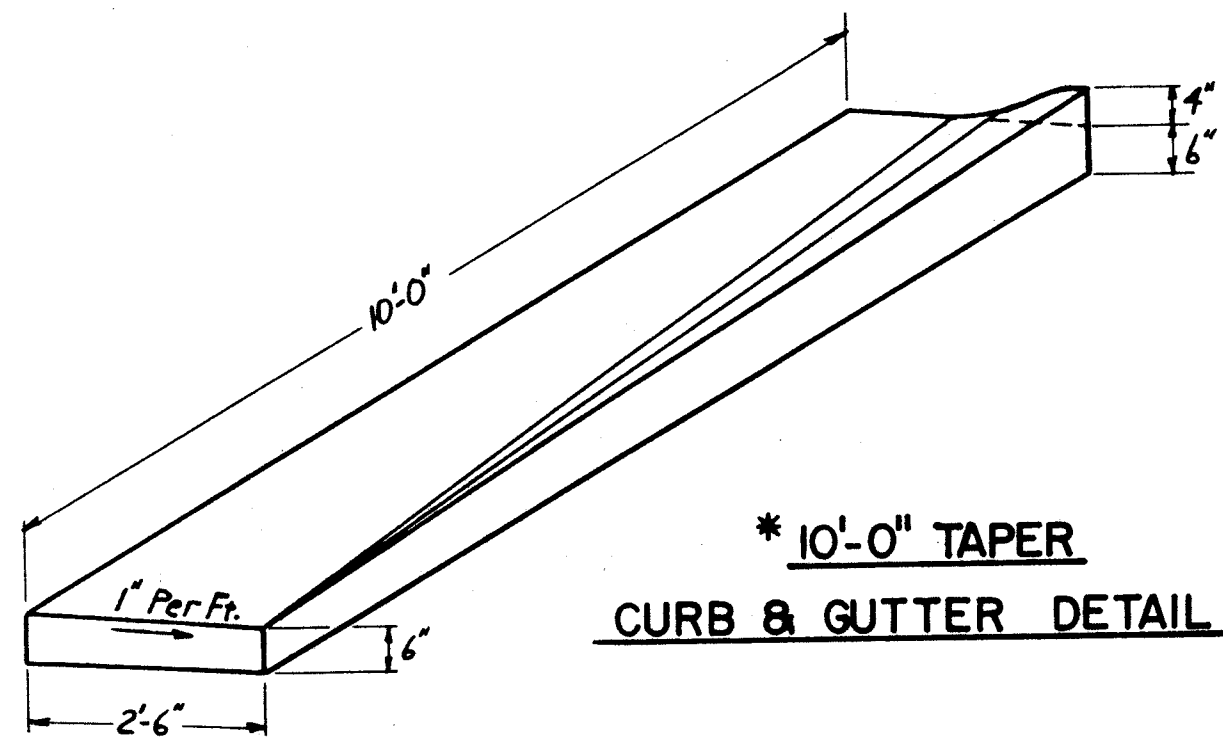
DRAWN BY: LJP DATE: 3/91 F.B. _____ PAGE _____

CHECKED BY: MLD DATE: 3/91 SCALE: 1"=20'

COPYRIGHT 19 91 DWG. NO. _____

HAMMONTREE & ASSOCIATES, LTD.
ENGINEERS PLANNERS SURVEYORS
CANTON-ARLON, OHIO
CANTON: 216/499-8817
ARLON: 216/633-7274





NOTE:
ADD 1100' TO ELEVATIONS
* TAPER CURB HEIGHT
LEFT SIDE: 4" (NORMAL) @ STA 20+50.89
TO 0" @ STA 20+40.89
RIGHT SIDE: 4" (NORMAL) @ STA 20+51.40
TO 0" @ STA 20+41.40

CONTOURS @
0.2' INTERVALS 10' INTERVALS

SEE SHEET #6
GLASGOW BLVD. N.W.-50'

GLASGOW BLVD. STA. 20+00.00
HILLS & DALES RD. STA. 10+00.00

OE/T & TV

HILLS AND DALES RD. N.W., C226

NOTES:

B.O.C. DENOTES BACK OF CURB.
4' @ DENOTES 4' OFFSET FOR CURB STAKES.
CHORD DISTANCES ON FILLETS ARE 10' @ B.O.C. (R=35.5')
& 8.87' @ 4' @ B.O.C. (R=31.5') UNLESS NOTED.
CHORD DISTANCES ON CUL-DE-SAC ARE 20' @ B.O.C. (R=44.5')
& 21.80' @ 4' @ B.O.C. (R=48.5') UNLESS NOTED.
CHORD DISTANCES ON BUBBLES ARE 20' @ B.O.C. (R=39.5')
& 22.03' @ 4' @ B.O.C. (R=43.5') UNLESS NOTED.

C=9.97' @ B.O.C. TYPICAL (R=200')
C=9.77' @ 4' @ B.O.C. (R=196')

C=8.41' @ B.O.C. (R=35.5')
C=7.46' @ 4' @ B.O.C. (R=31.5')
C=14.17' @ B.O.C. (R=39.5')
C=15.61' @ B.O.C. (R=43.5')

C=20.00' @ B.O.C. (R=39.5') TYPICAL
C=22.03' @ 4' @ B.O.C. (R=43.5')

C=9.97' @ B.O.C. TYPICAL (R=200')
C=10.17' @ 4' @ B.O.C. (R=204')

$\Delta = 158^{\circ}39'22''$
R=39.5' (B.O.C.)

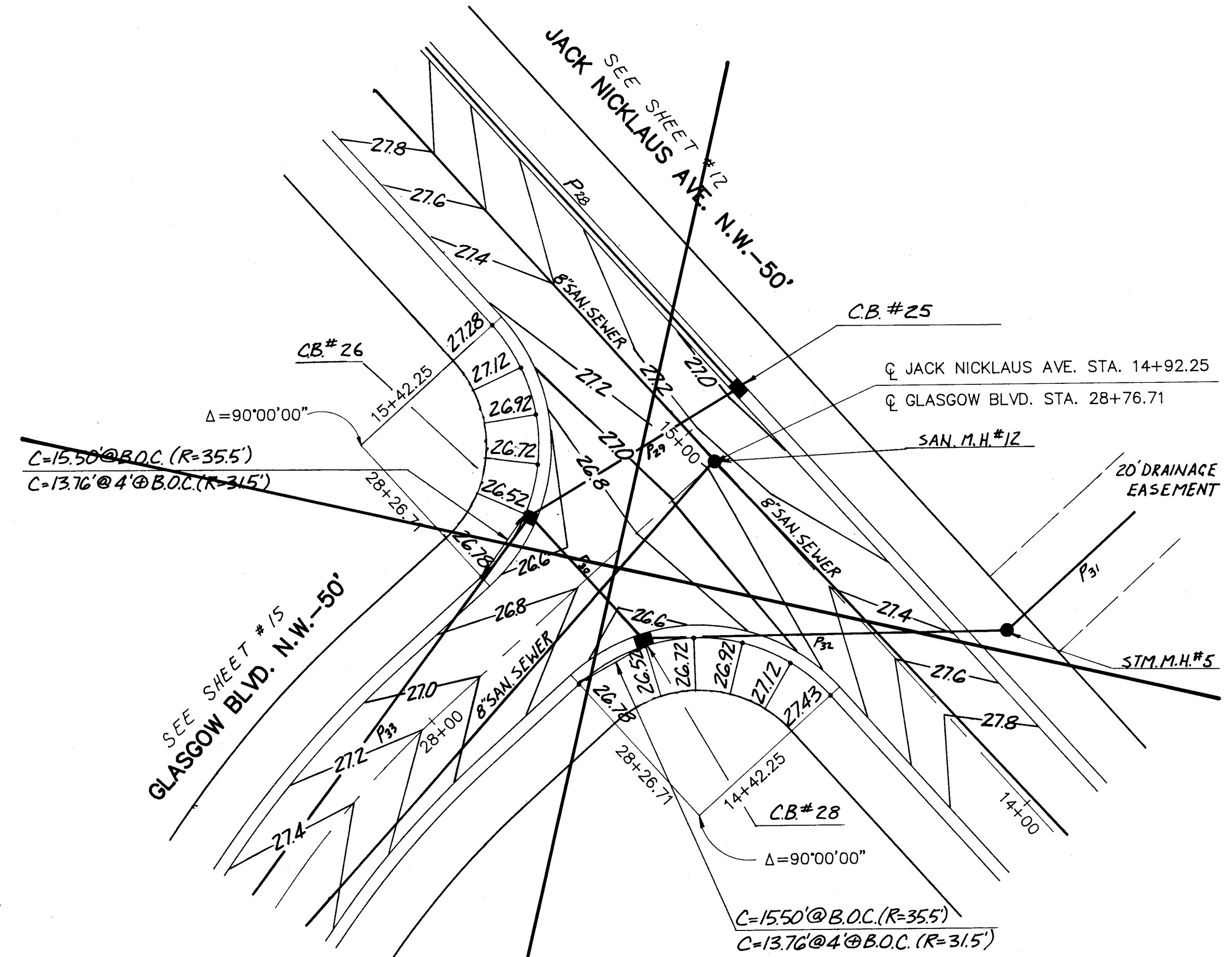
CTR. POINT
STA. 25+51.04
25' LT.

C=14.17' @ B.O.C. (R=39.5')
C=15.61' @ 4' @ B.O.C. (R=43.5')
C=8.41' @ B.O.C. (R=35.5')
C=7.46' @ 4' @ B.O.C. (R=31.5')

$\Delta = 62^{\circ}10'55''$

NOTE:
ADD 1100' TO ELEVATIONS
CONTOUR INTERVAL = 0.2'

VOID



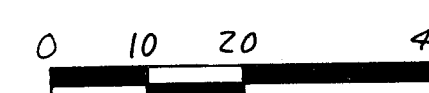
VOID

NOTE:
ADD 1100' TO ELEVATIONS
CONTOUR INTERVAL = 0.2'

APPROVED _____ DATE _____
MASSILLON CITY ENGINEER

APPROVED _____ DATE _____
STARK COUNTY SANITARY ENGINEER

APPROVED _____ DATE _____
STARK COUNTY SUBDIVISION ENGINEER



REVISION BY: _____ DATE: _____ DESCRIPTION: _____
REVISION BY: _____ DATE: _____ DESCRIPTION: _____

DRAWN BY: DTM DATE: 3/91

CHECKED BY: BHB DATE: 3/91

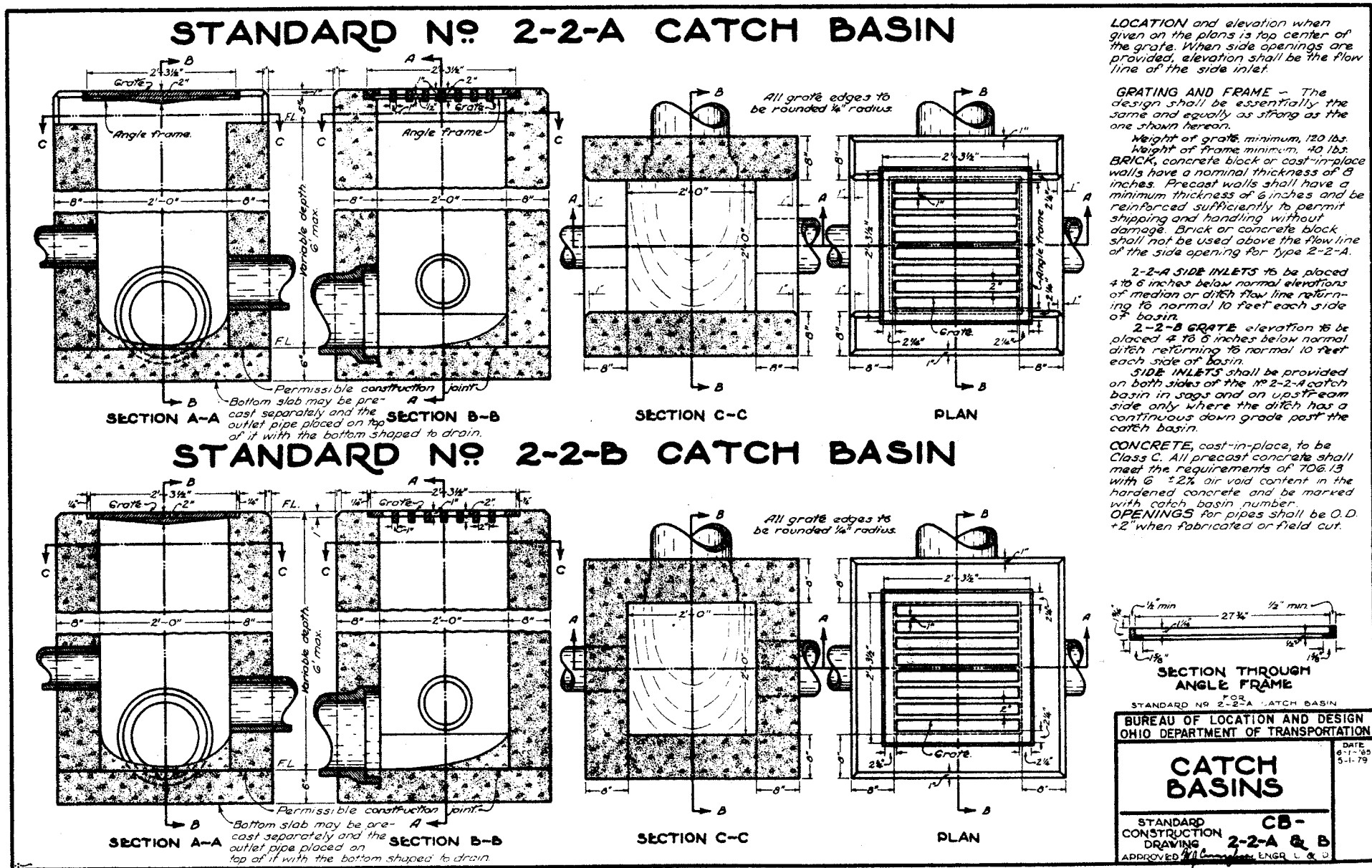
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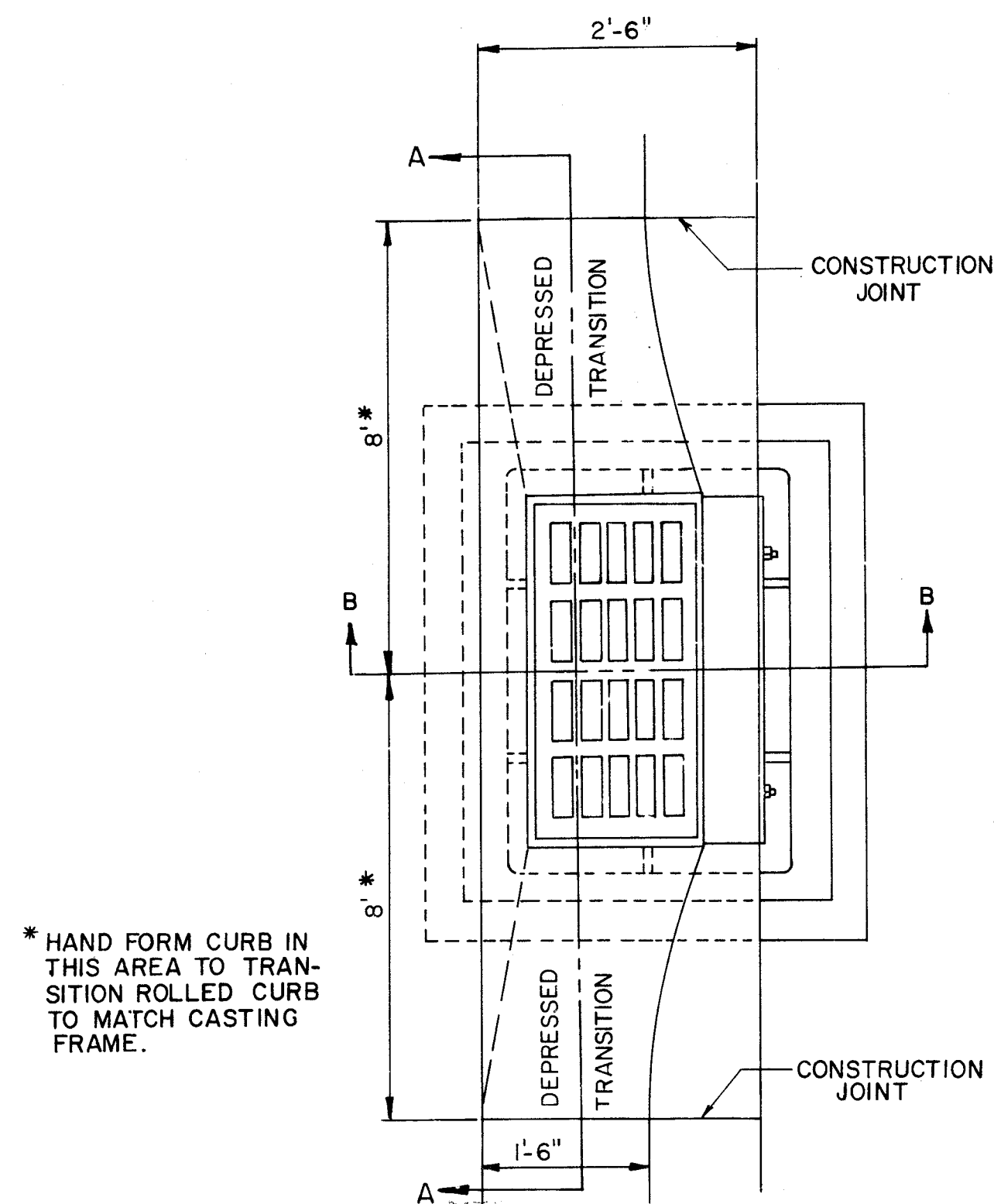
F.B. _____ PAGE _____

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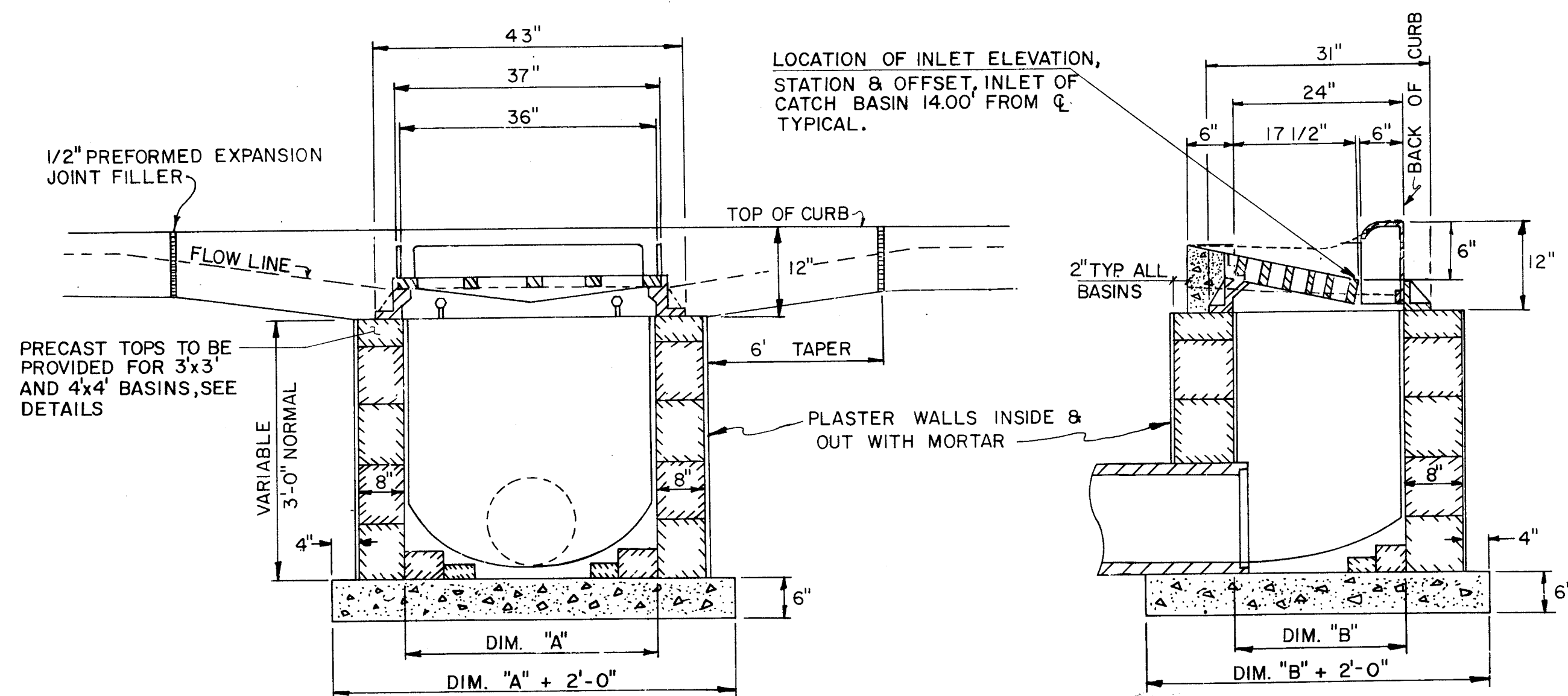
DWG. NO. _____





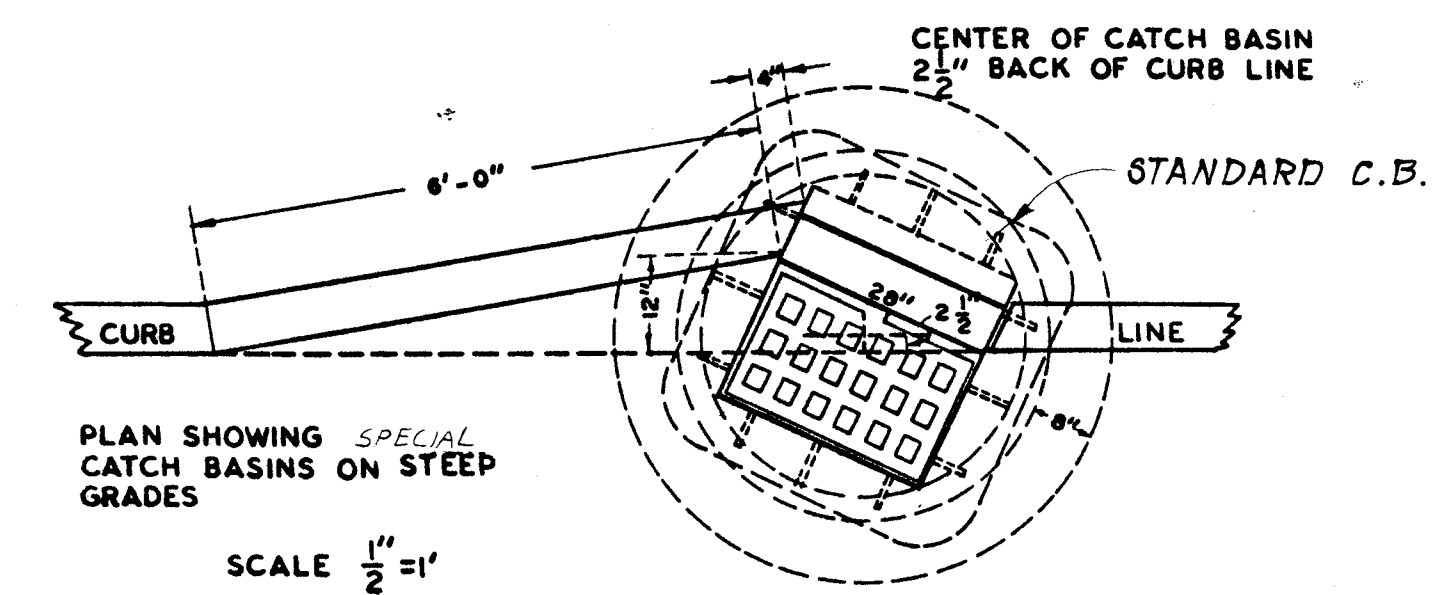


TOP VIEW



SECTION A-A

SECTION B-B

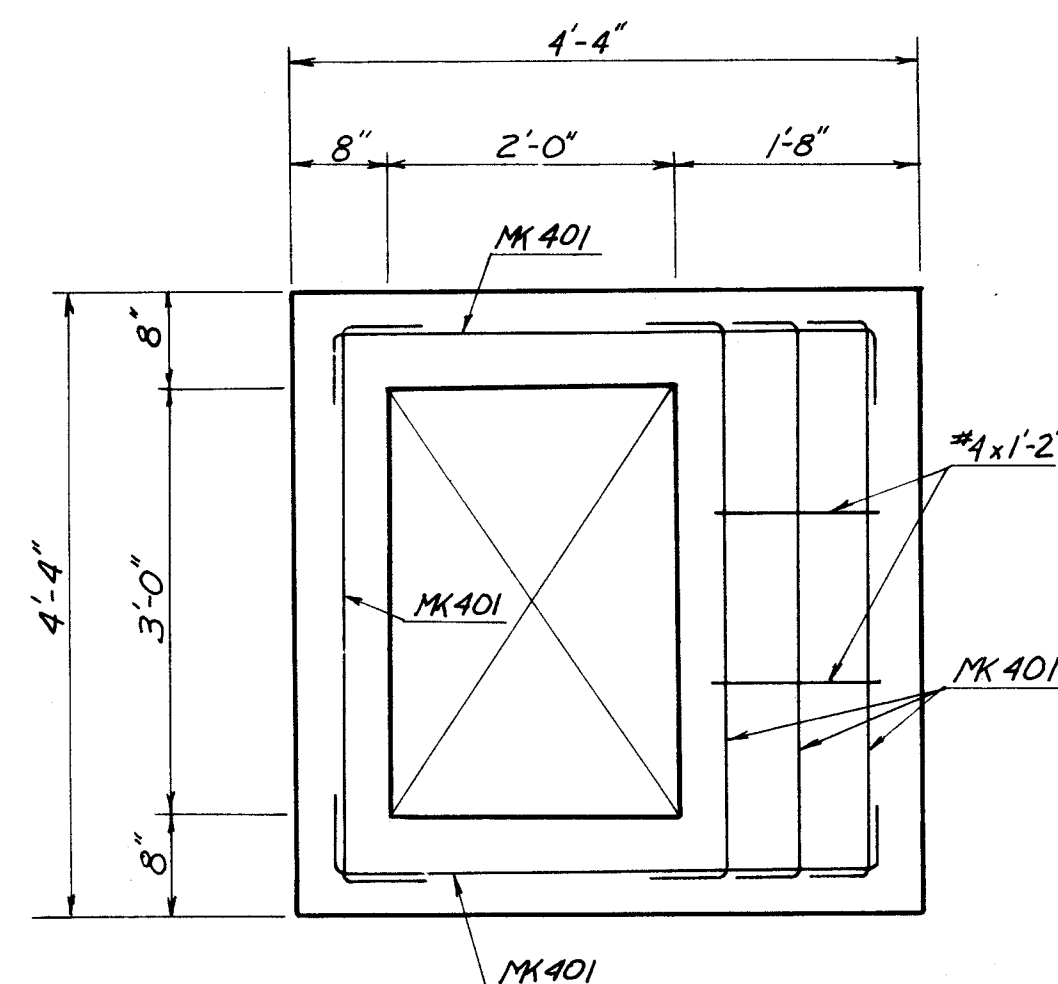


NOTES:
 NEENAH CASTING R-3246 TYPE C GRATE 260 SQ. IN.
 FREE INLET - 495 POUNDS, ADJUSTABLE HEIGHT
 WHEN DOUBLE CATCH BASIN IS SPECIFIED IN PLANS
 (DBL. C.B.) USE NEENAH R-3296-A
 CONTRACTOR TO BID AND CONSTRUCT CATCH BASIN
 WITH CASTING AS SHOWN OR EQUAL AS ONE UNIT ITEM
 STEPS ARE TO BE PROVIDED ON THE CATCH BASIN'S
 WHEN THE CATCH BASIN IS OVER FOUR(4) FEET DEEP

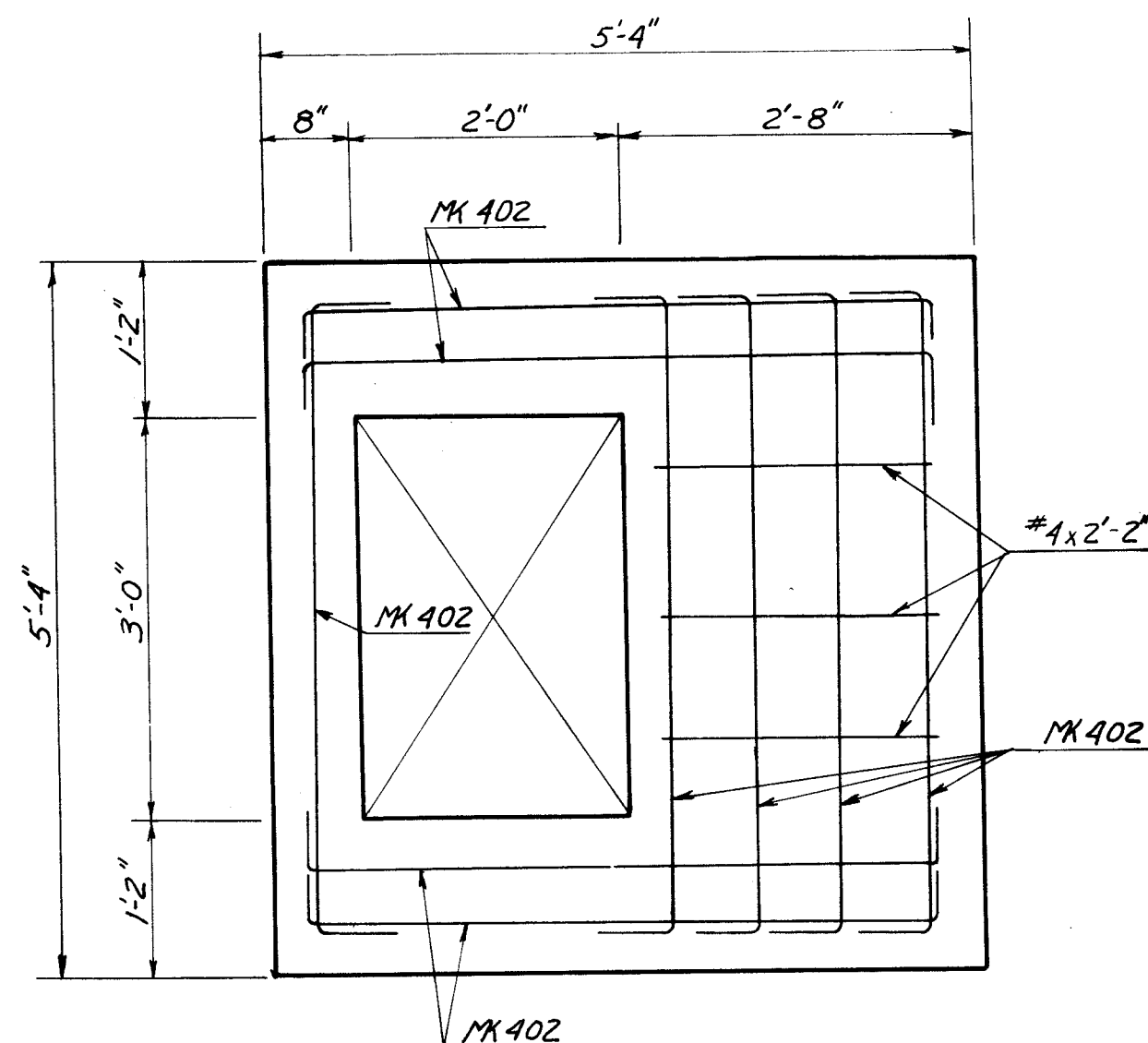
CATCH BASIN IN TYPE 3 CURB & GUTTER

*CATCH BASIN DESIGNATION	DIM. "A"	DIM. "B"	PRECAST TOP	MAXIMUM PIPE SIZE
STANDARD	3'-0"	2'-0"	NONE	21"
3'x3'	3'-0"	3'-0"	TYPE 1	33"
4'x4'	4'-0"	4'-0"	TYPE 2	42"
DOUBLE	6'-1"	2'-0"	NONE	21"

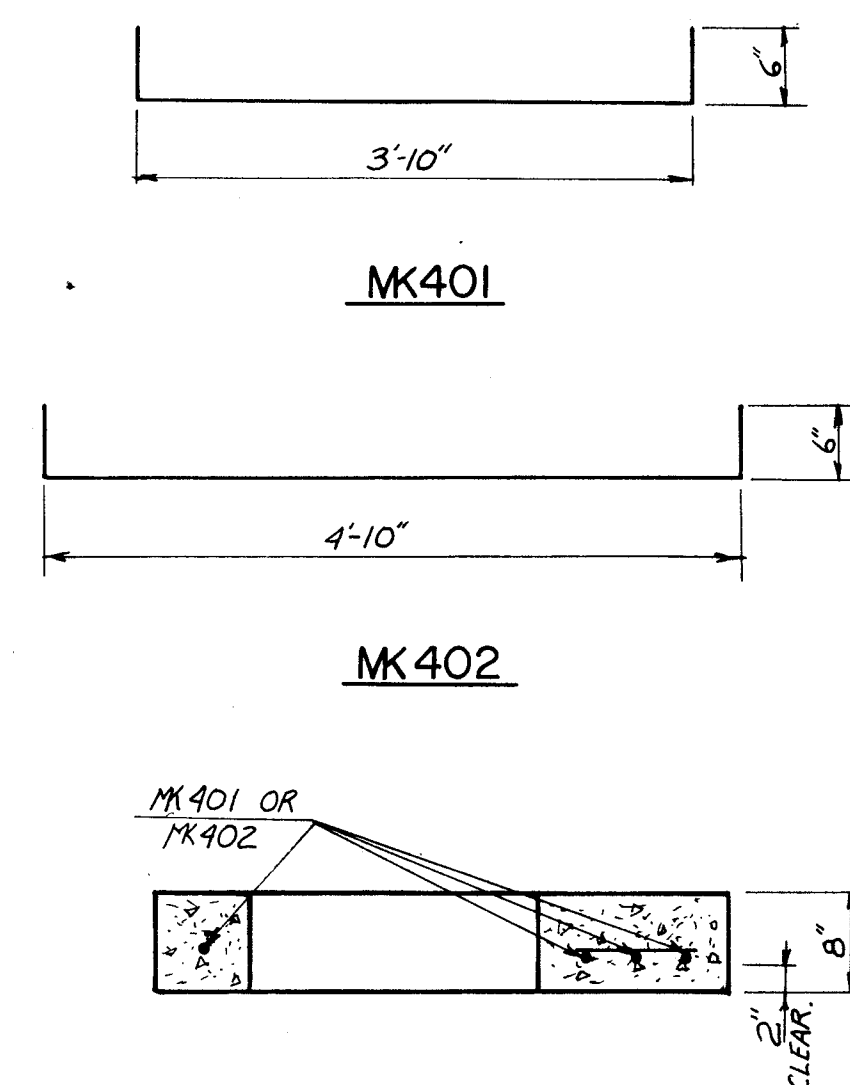
* ALL CATCH BASINS SHOWN ON PLANS ARE
 REFERRED TO BY ONE OF THESE DESIGNATIONS



TYPE 1



TYPE 2



TYP. SECTION

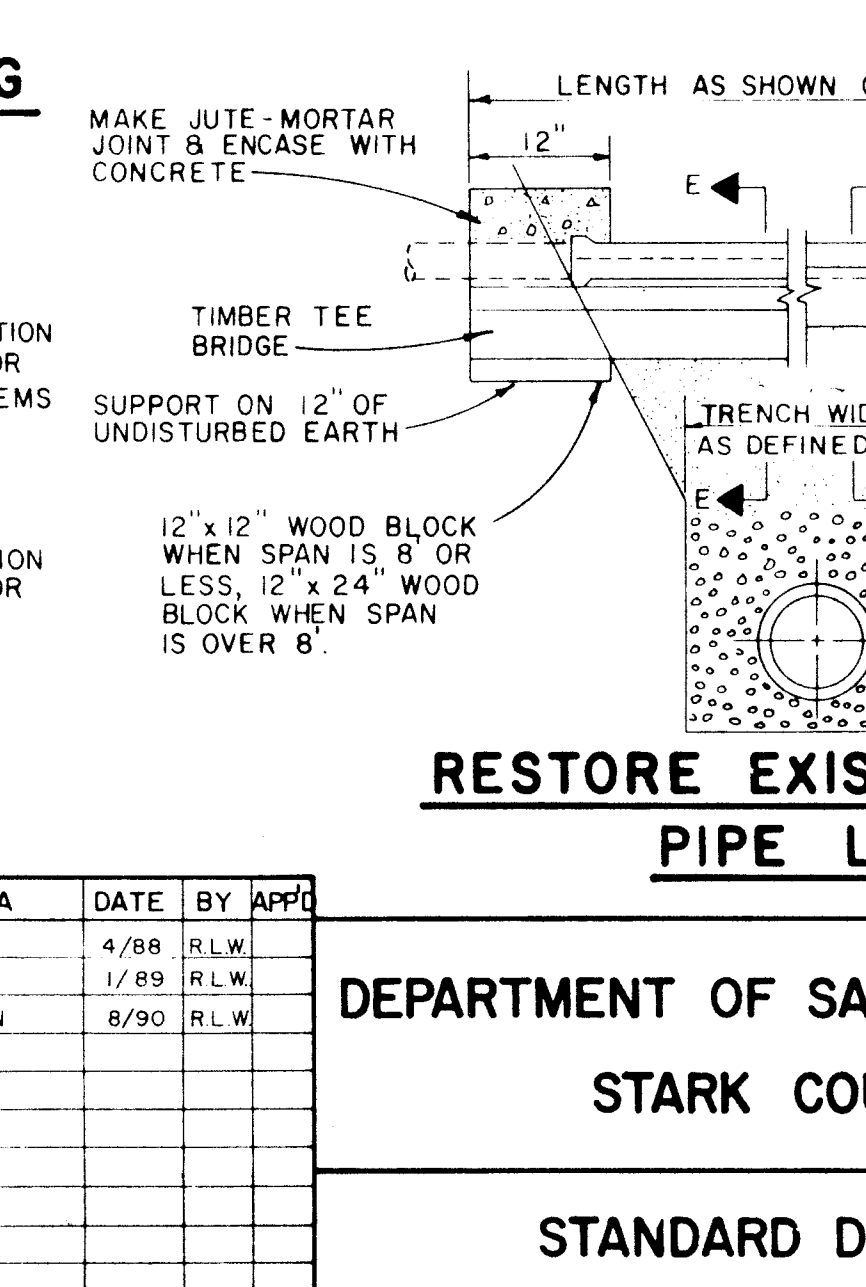
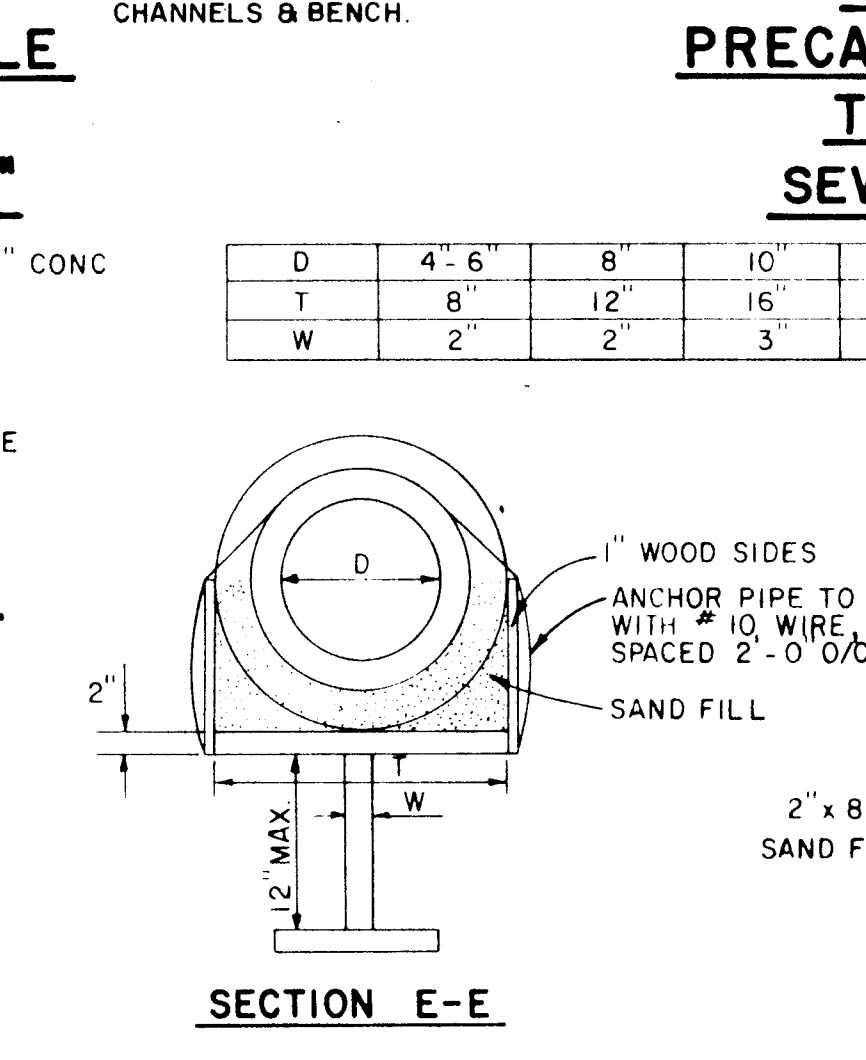
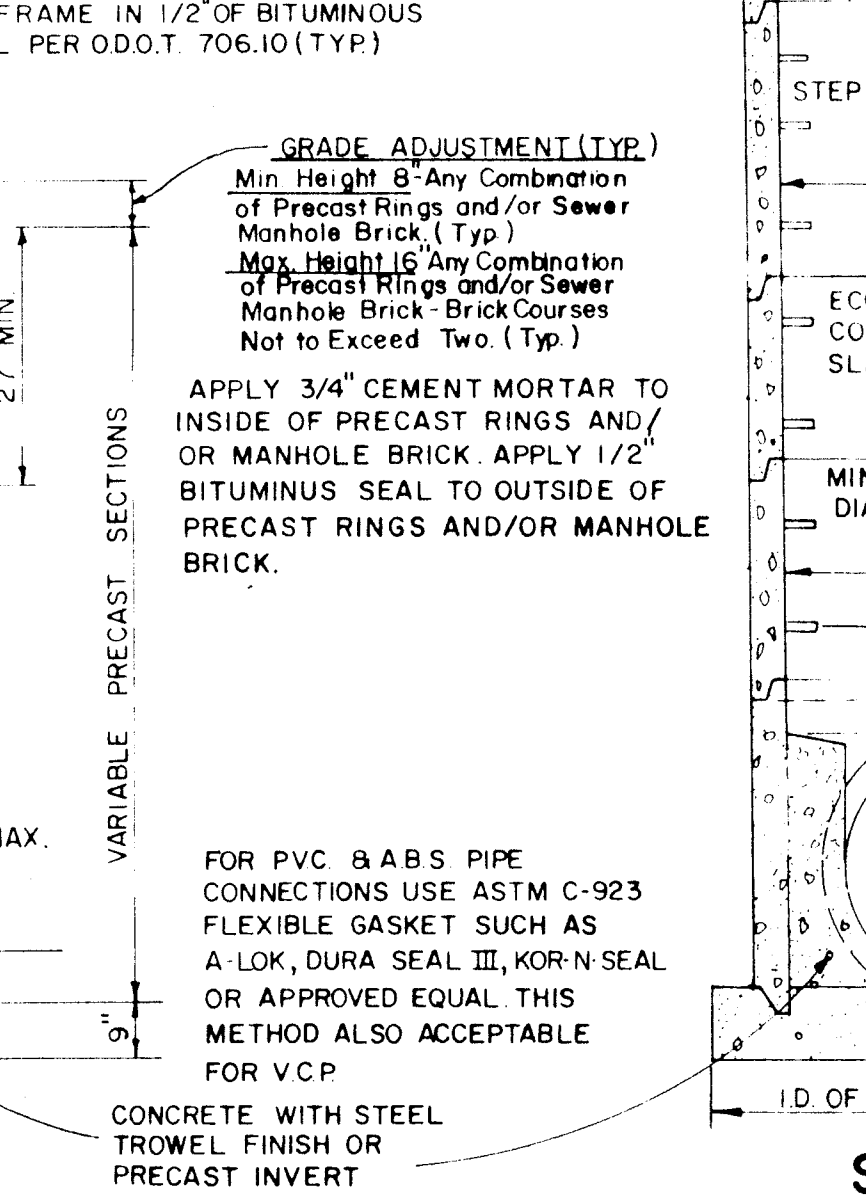
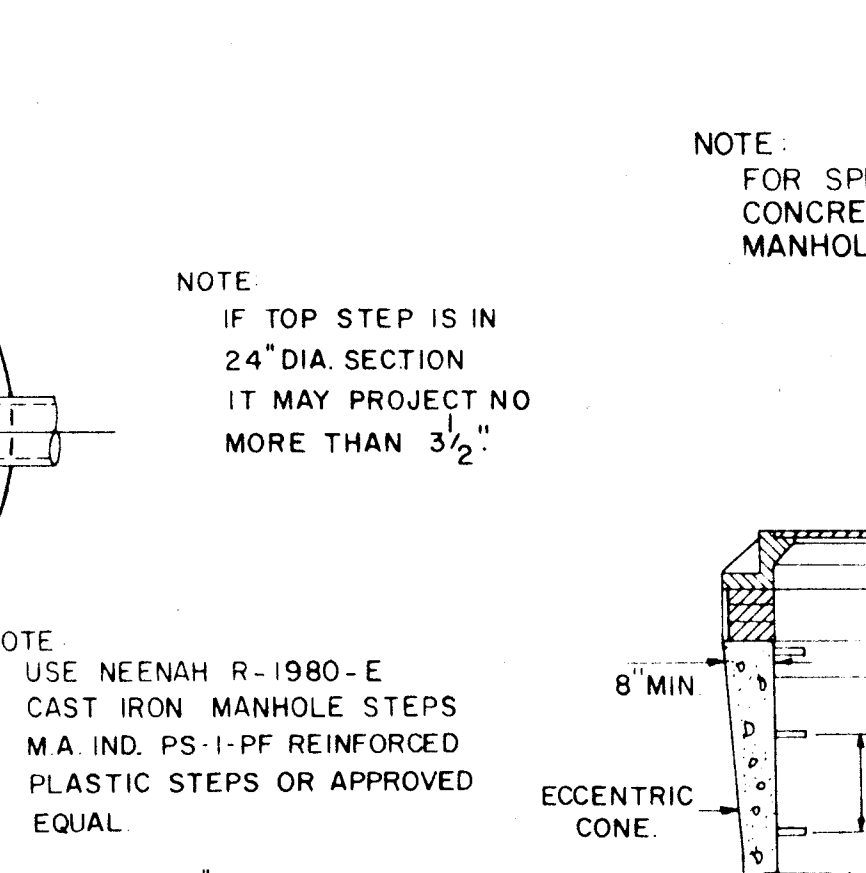
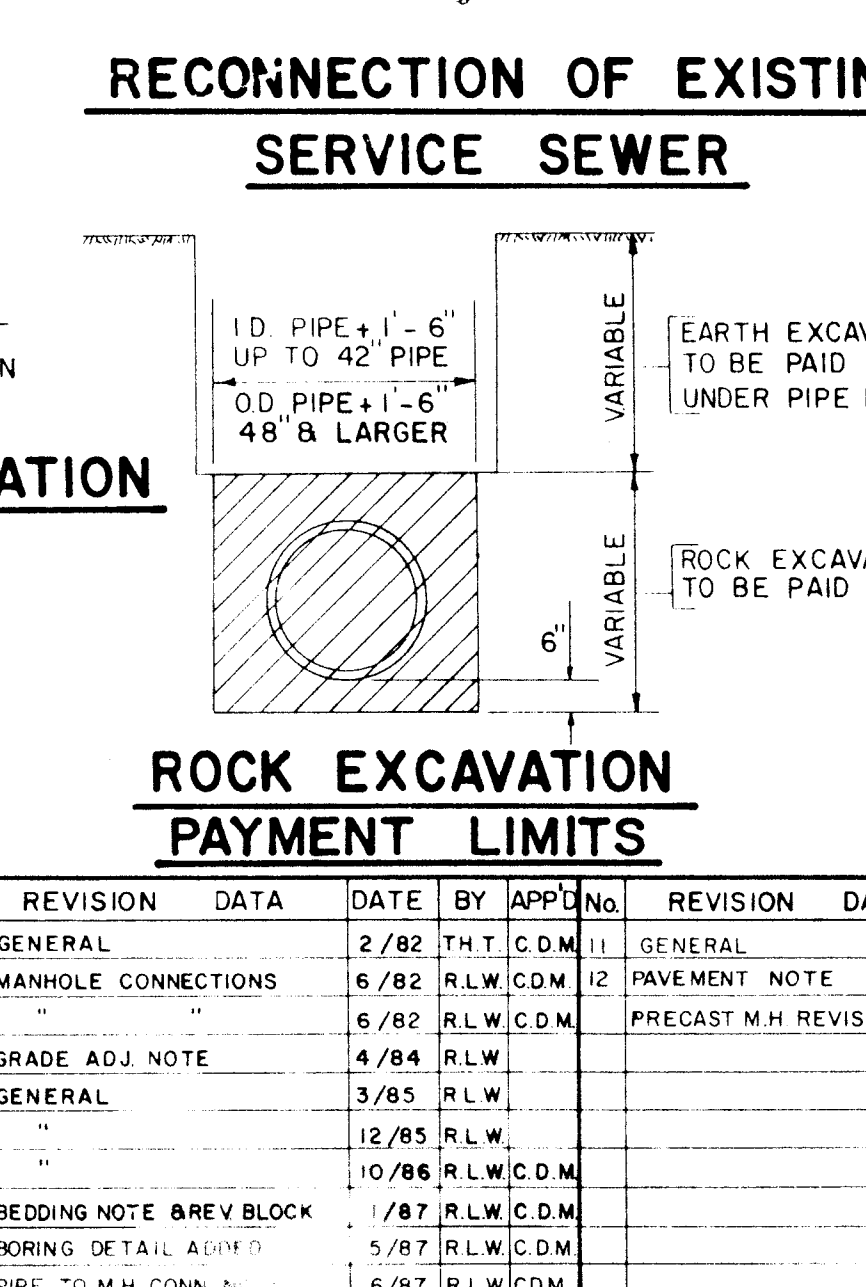
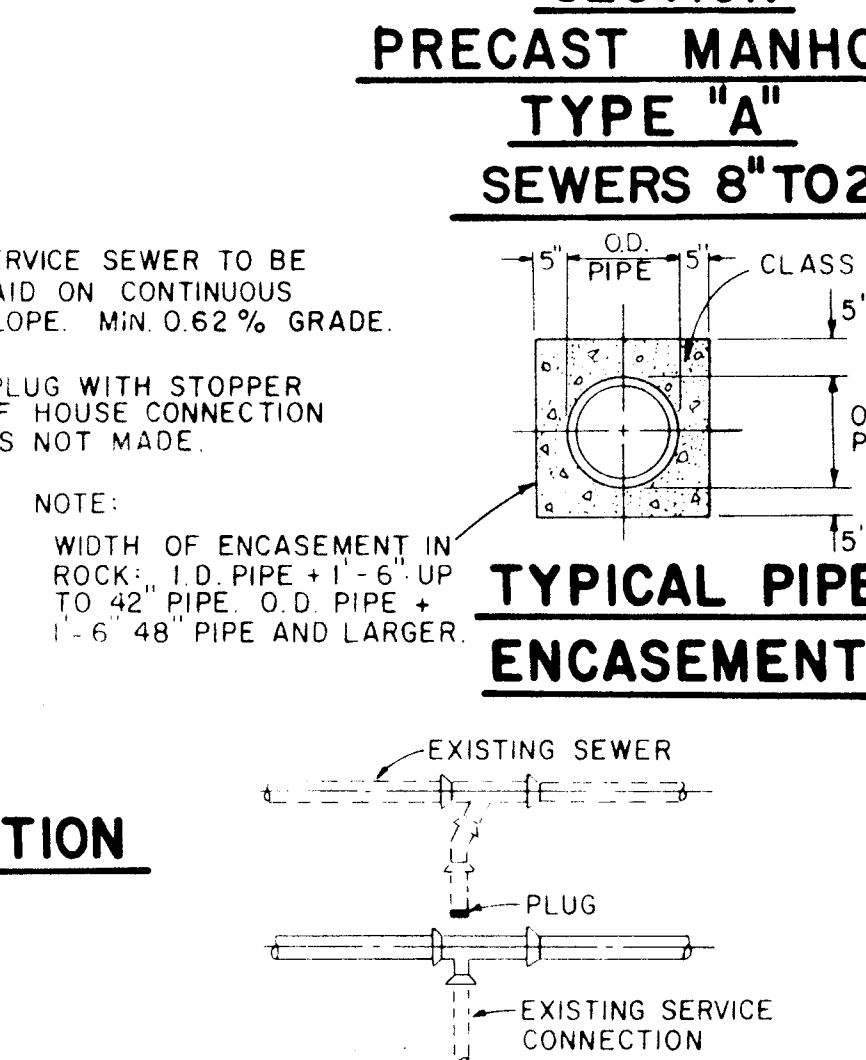
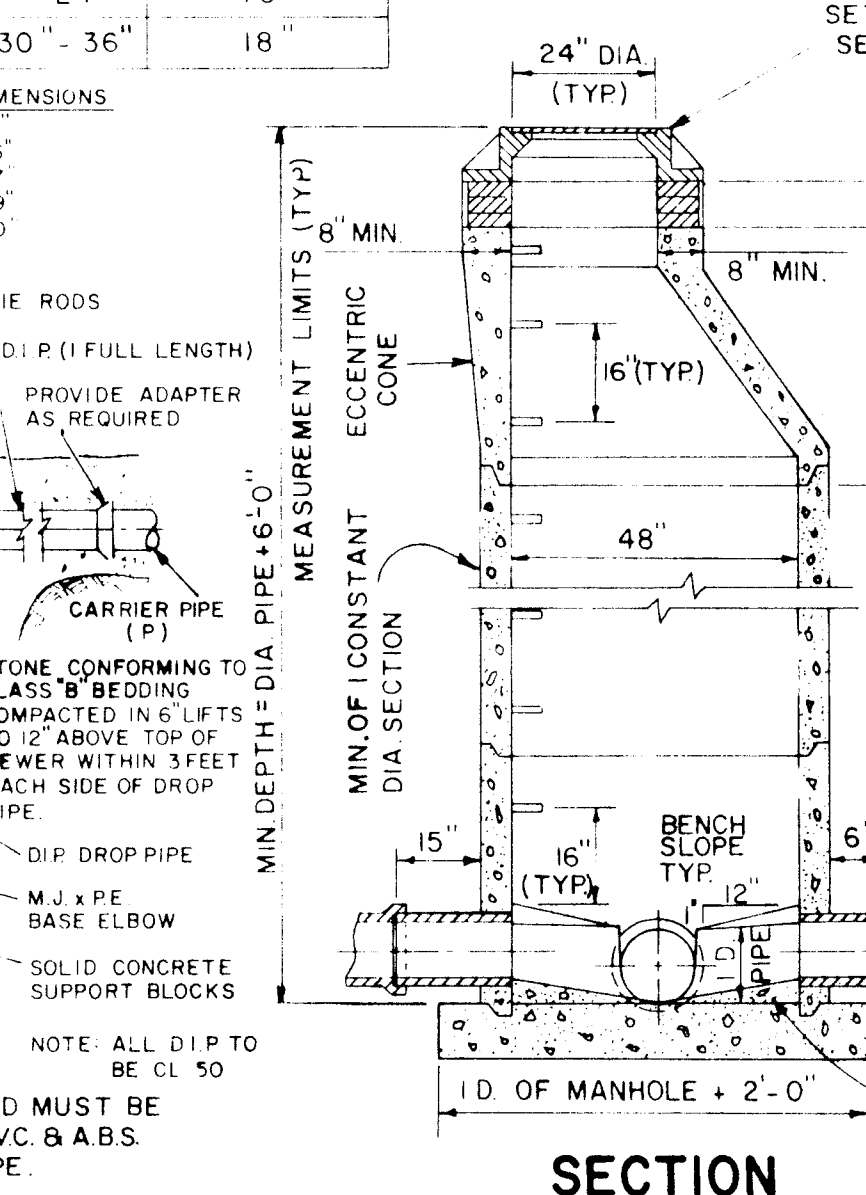
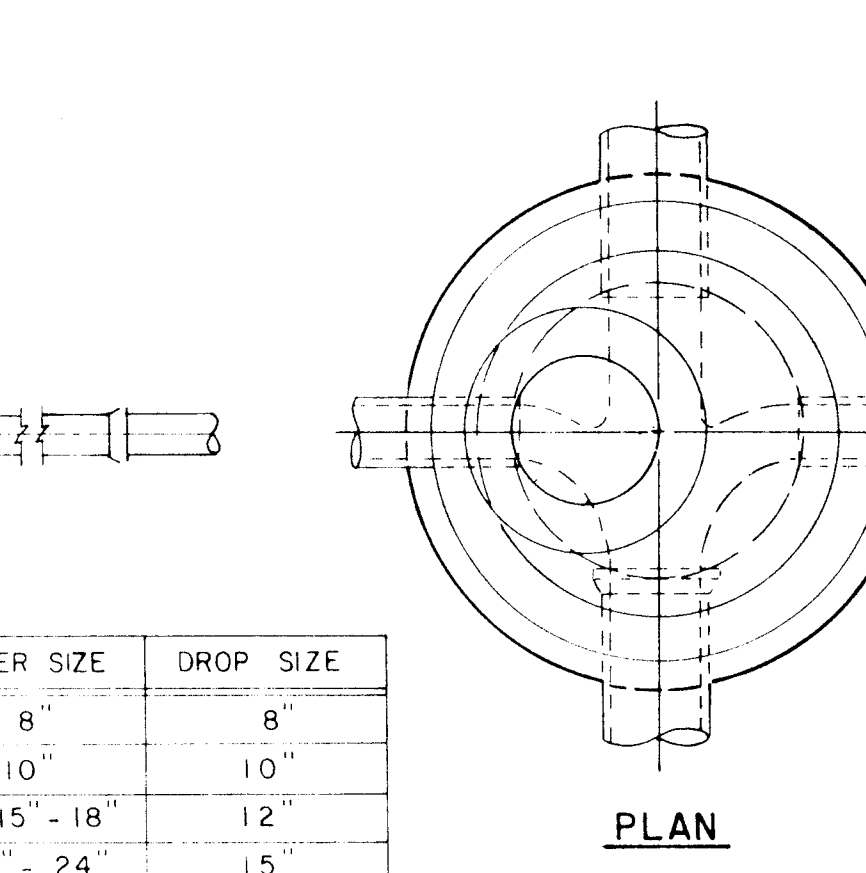
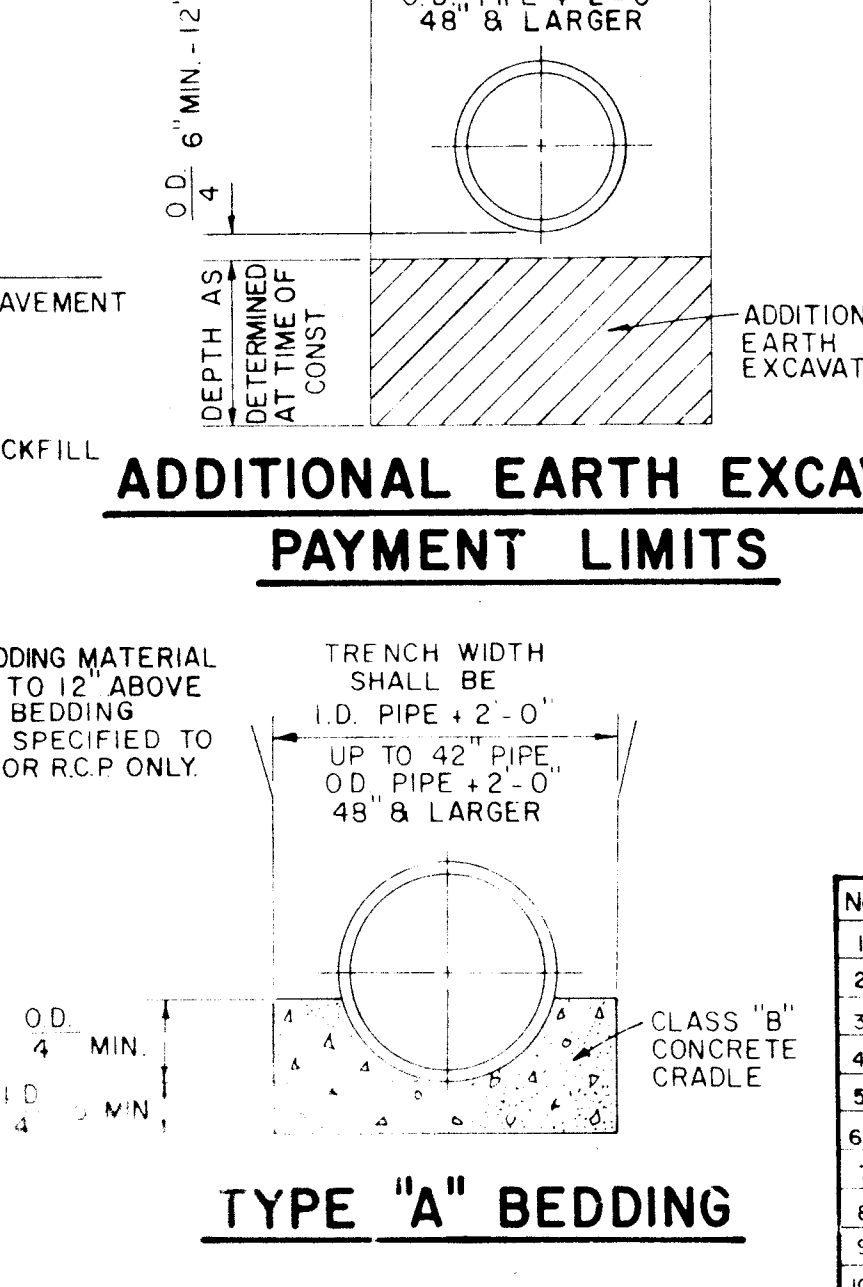
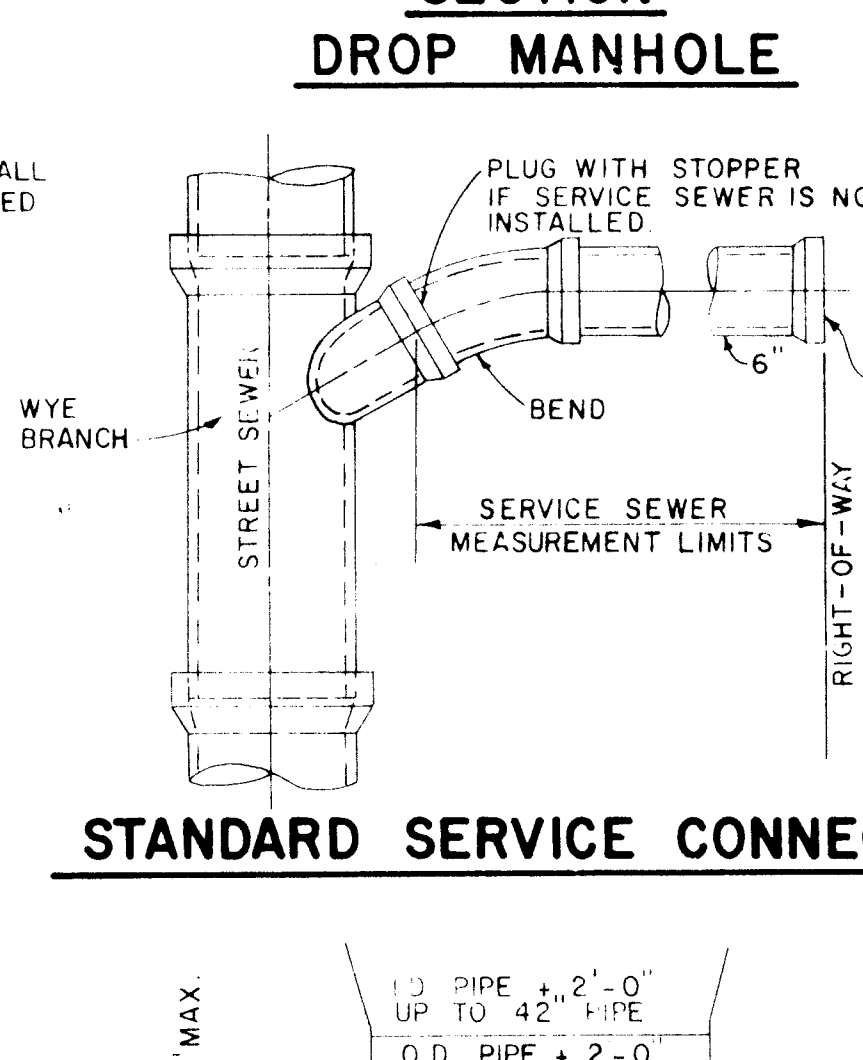
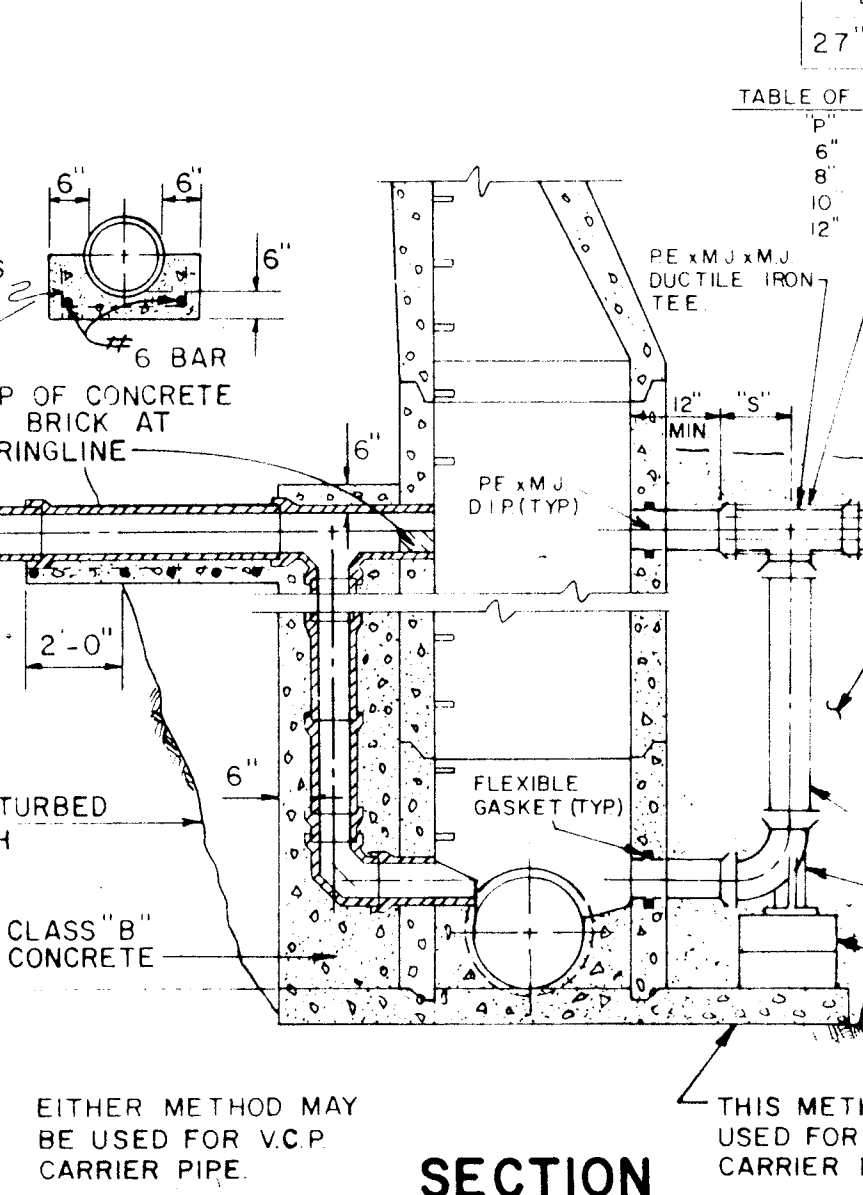
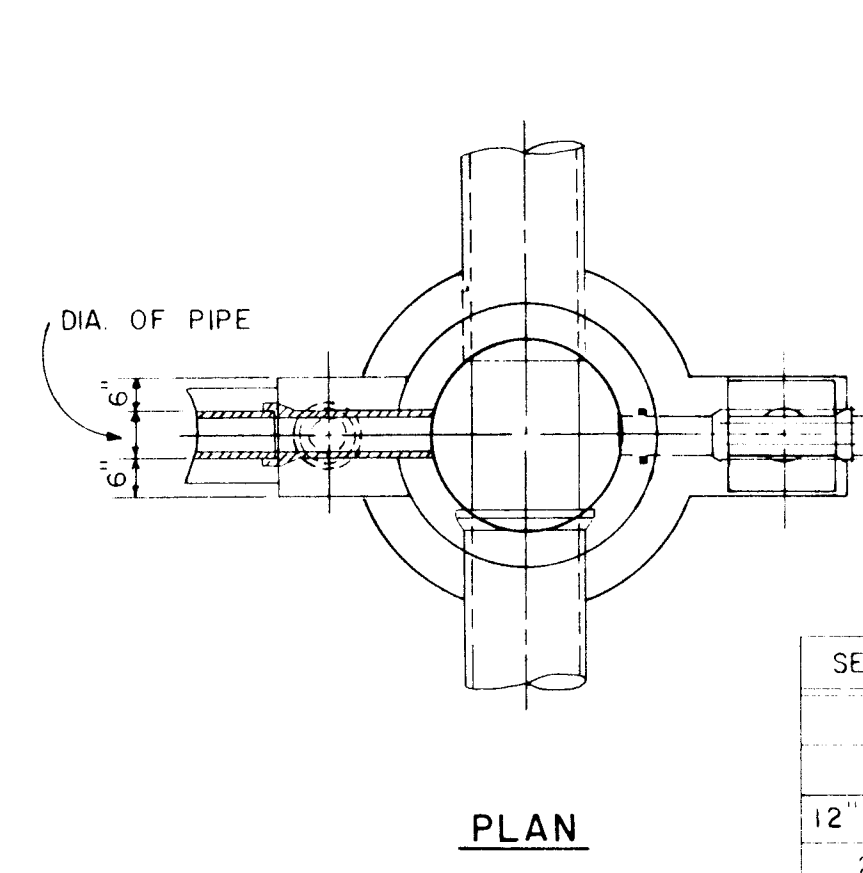
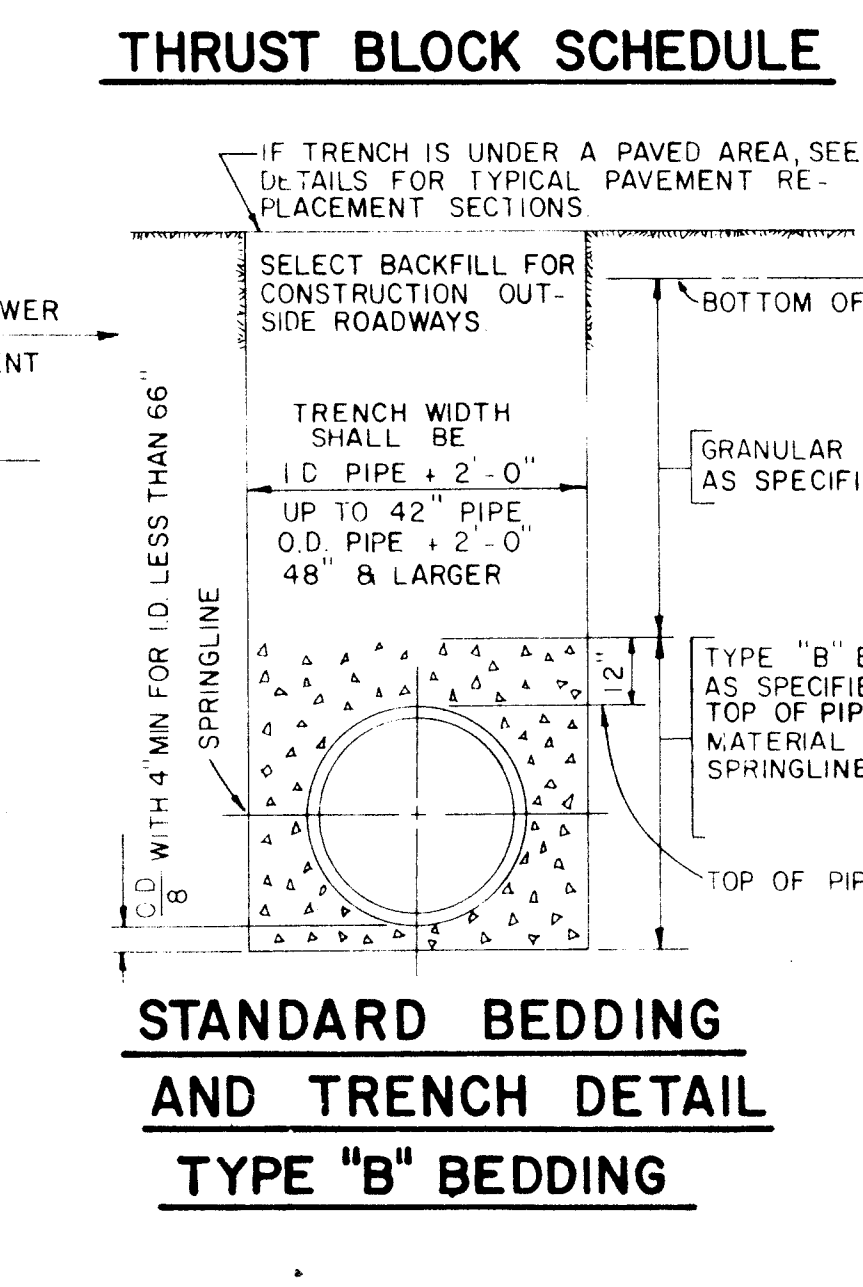
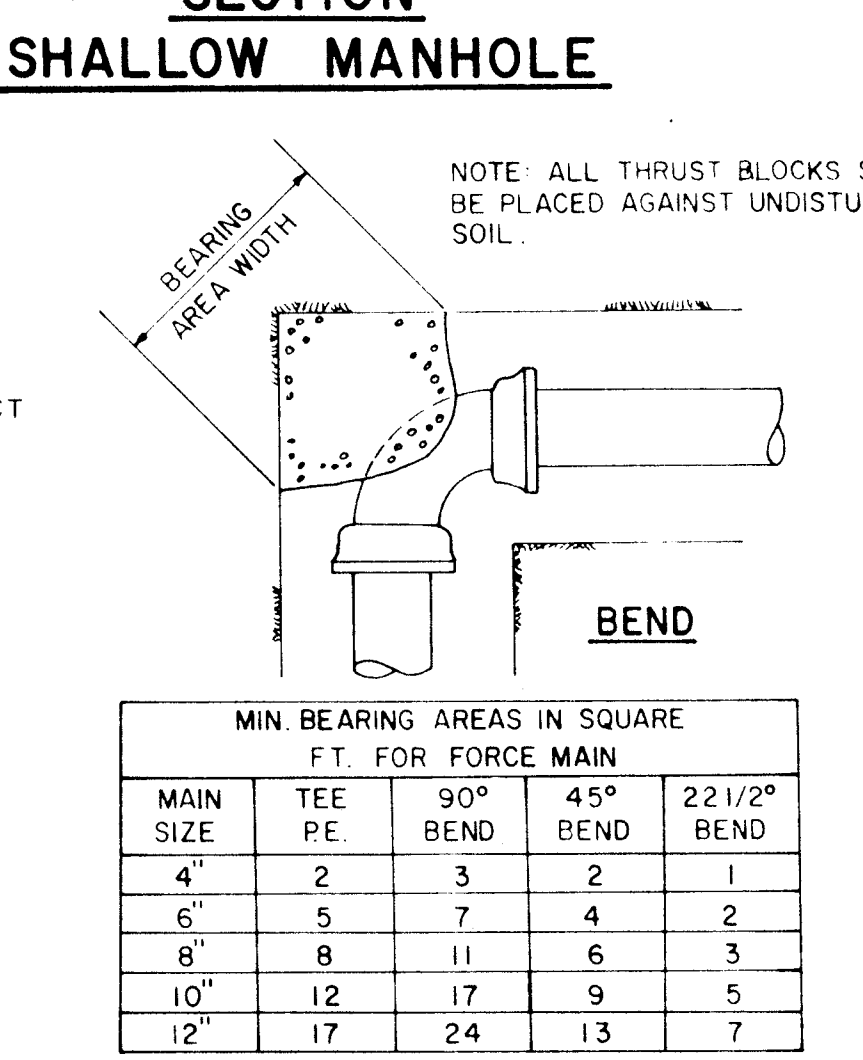
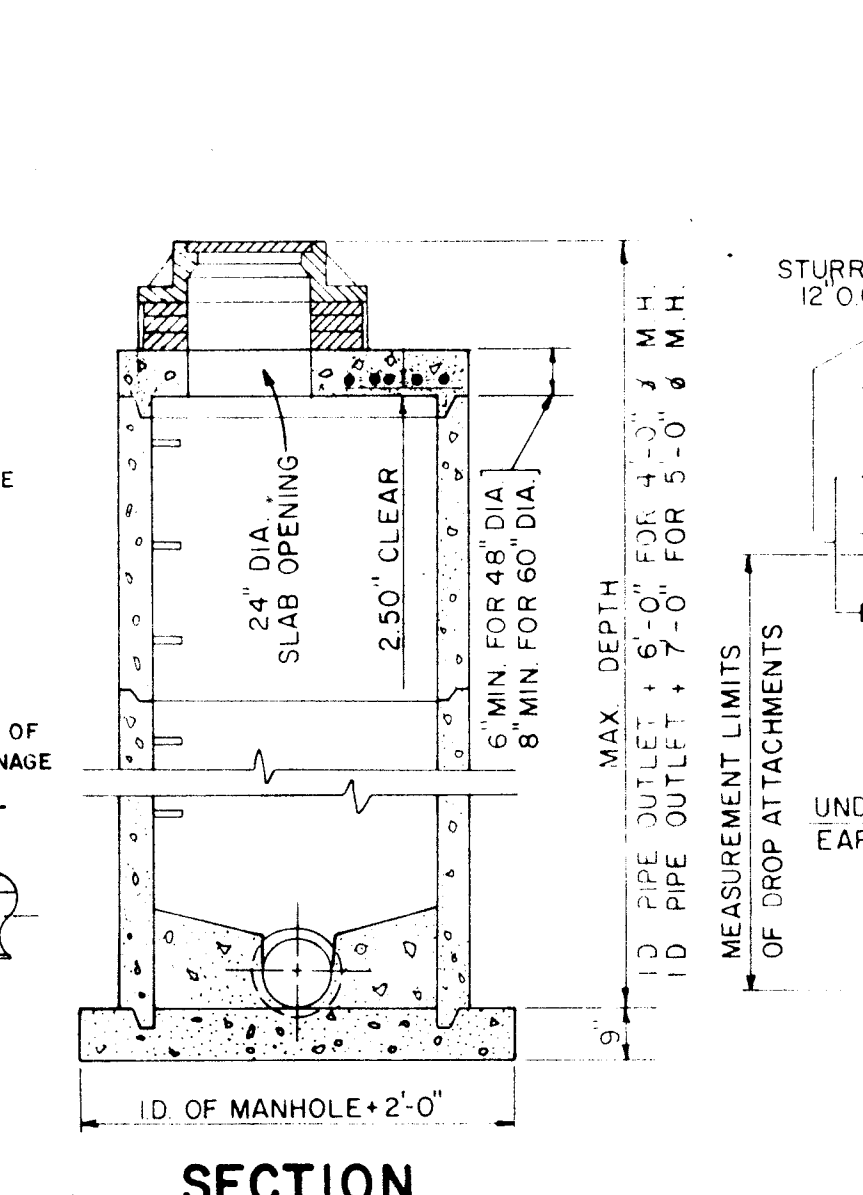
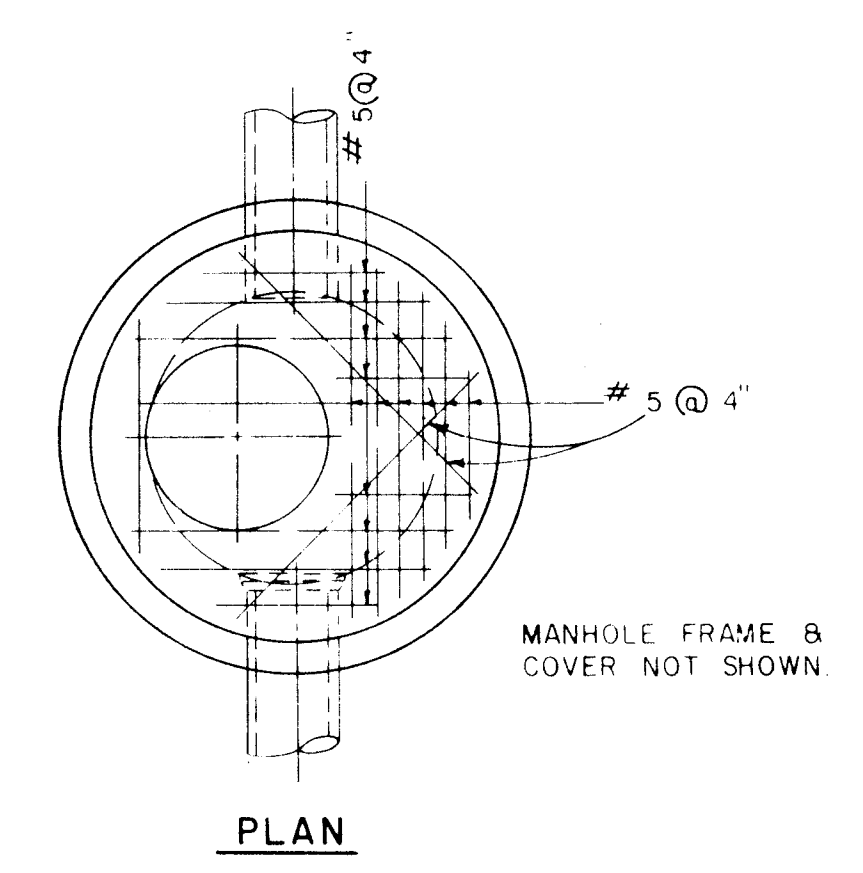
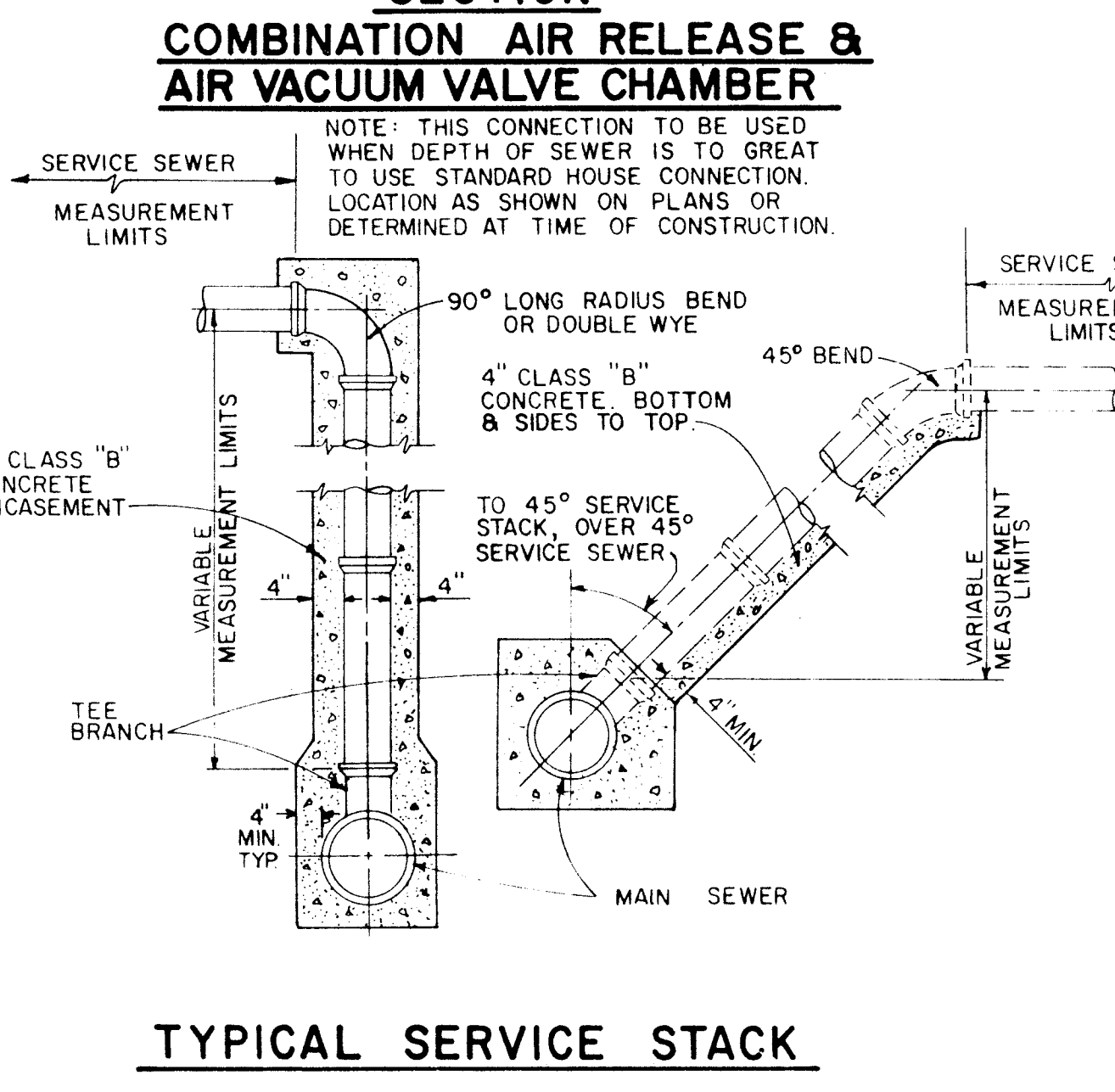
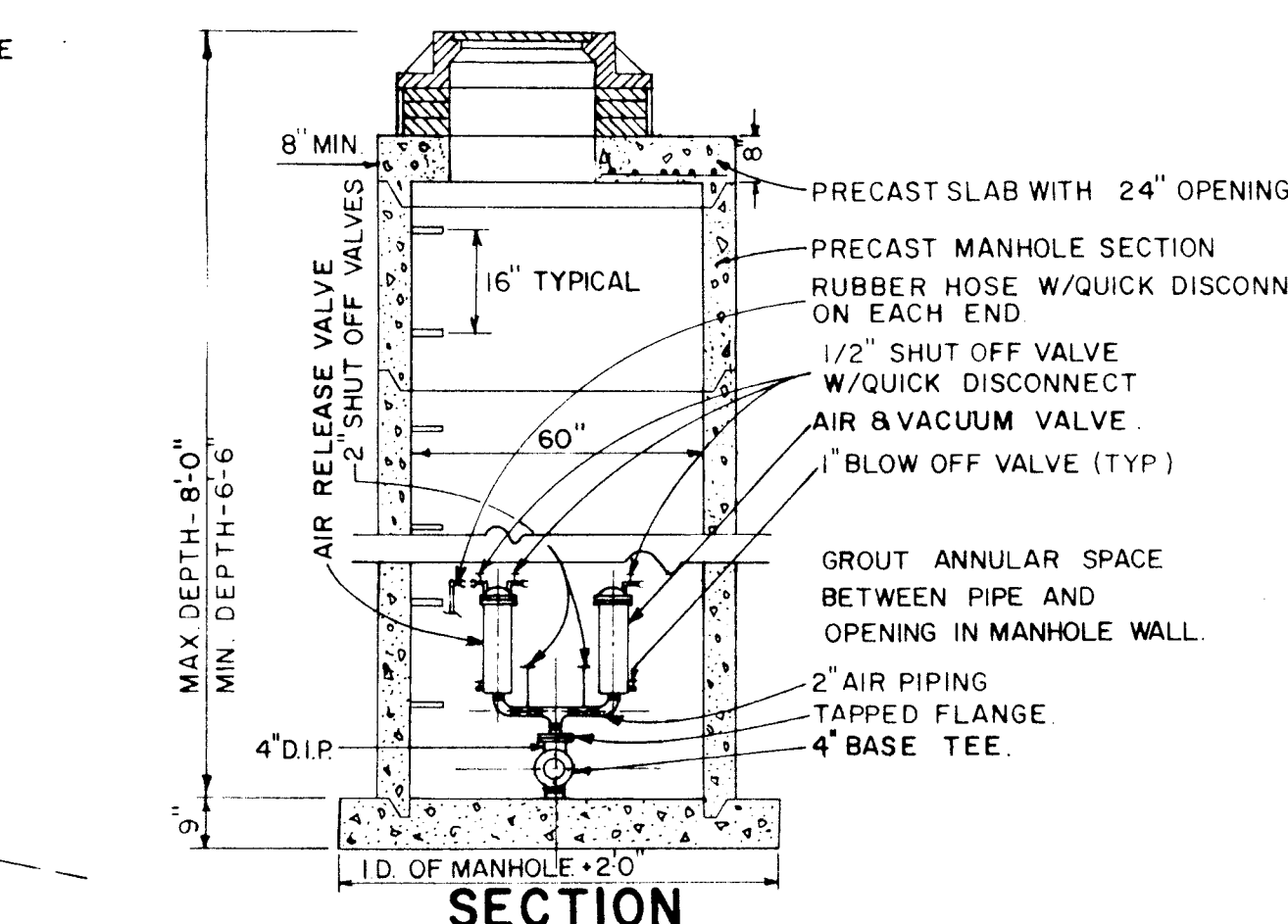
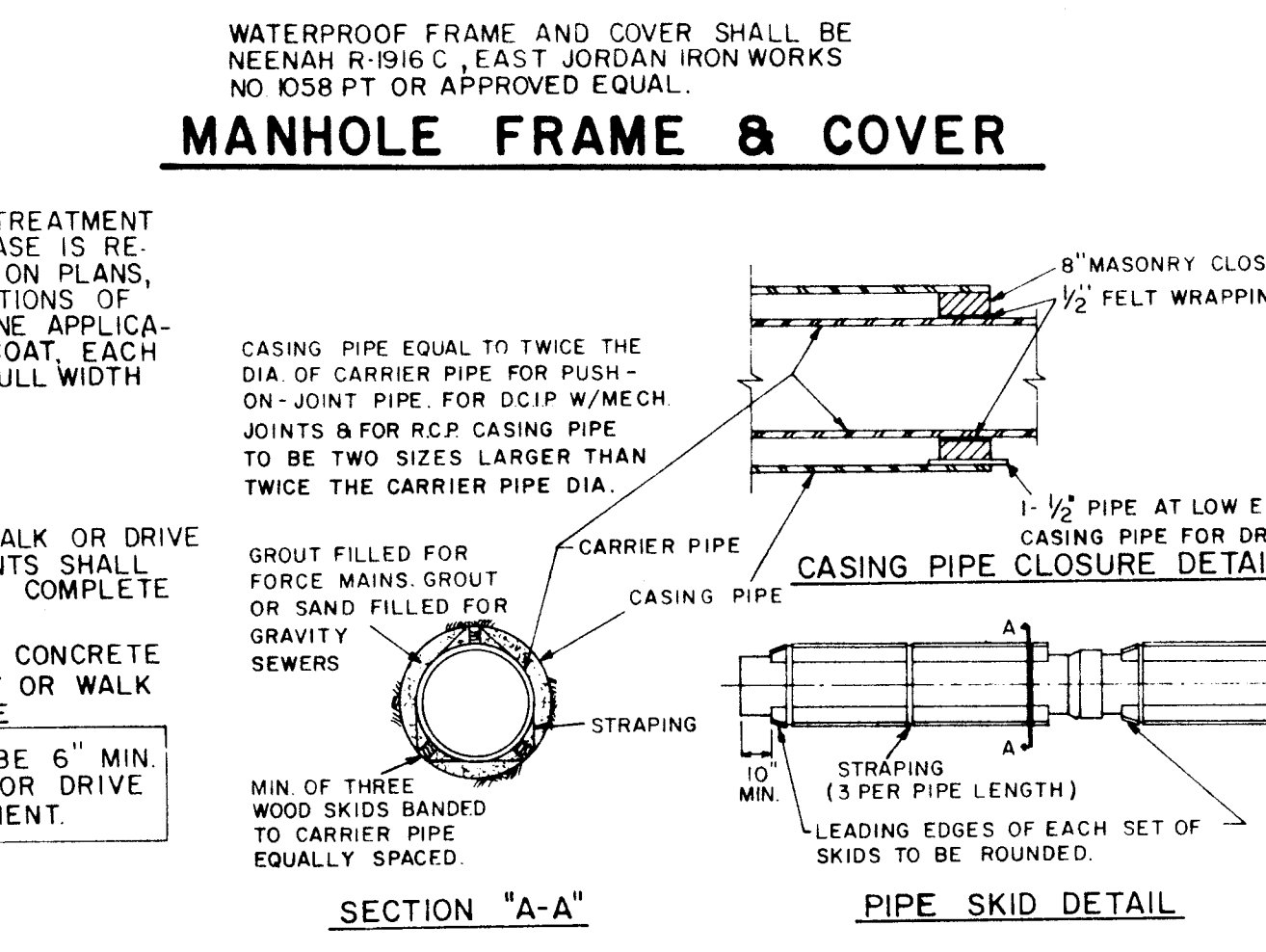
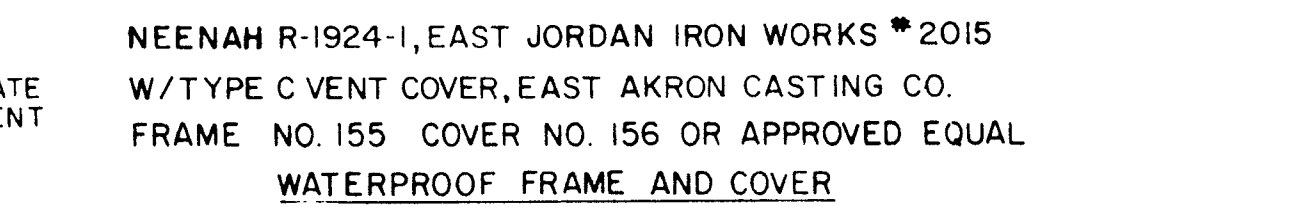
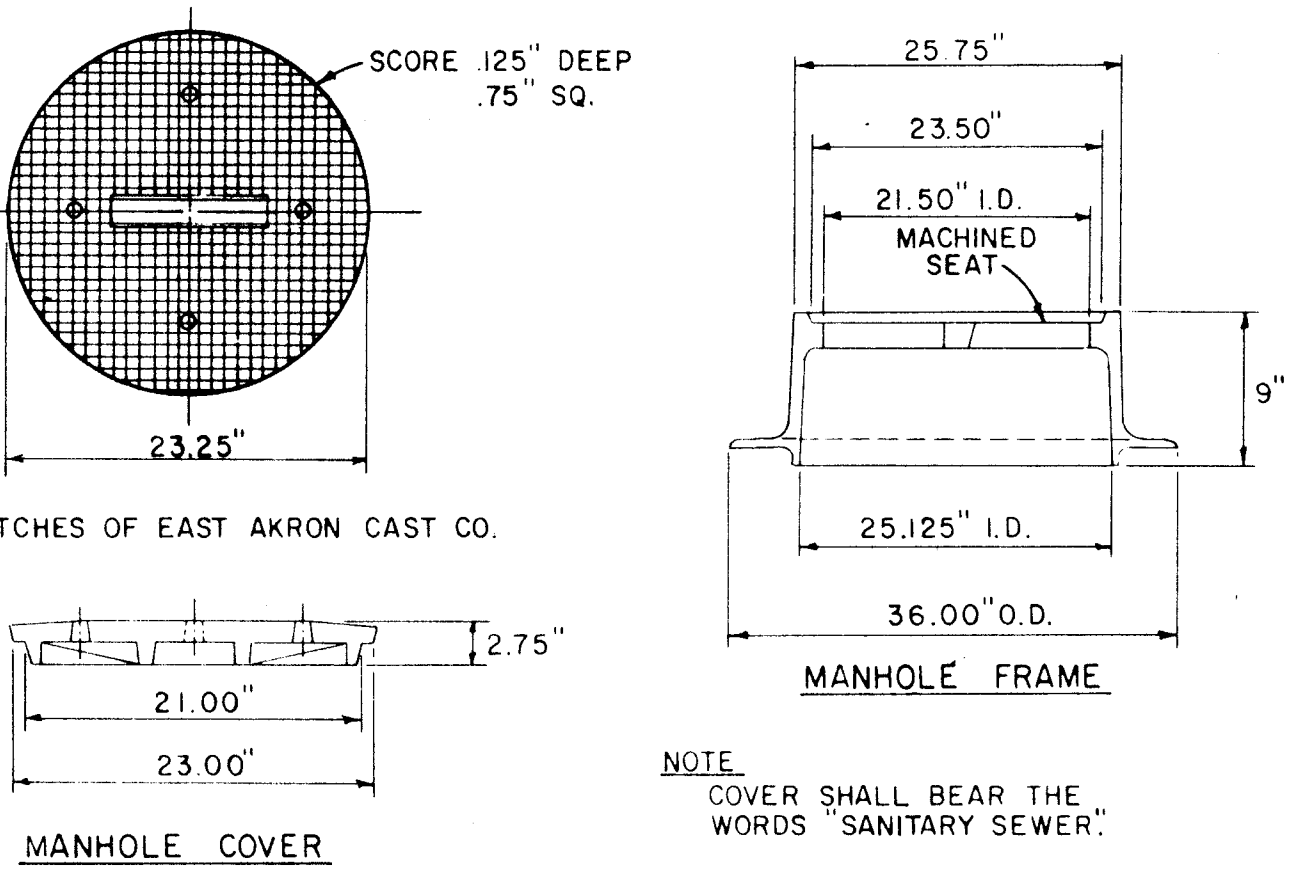
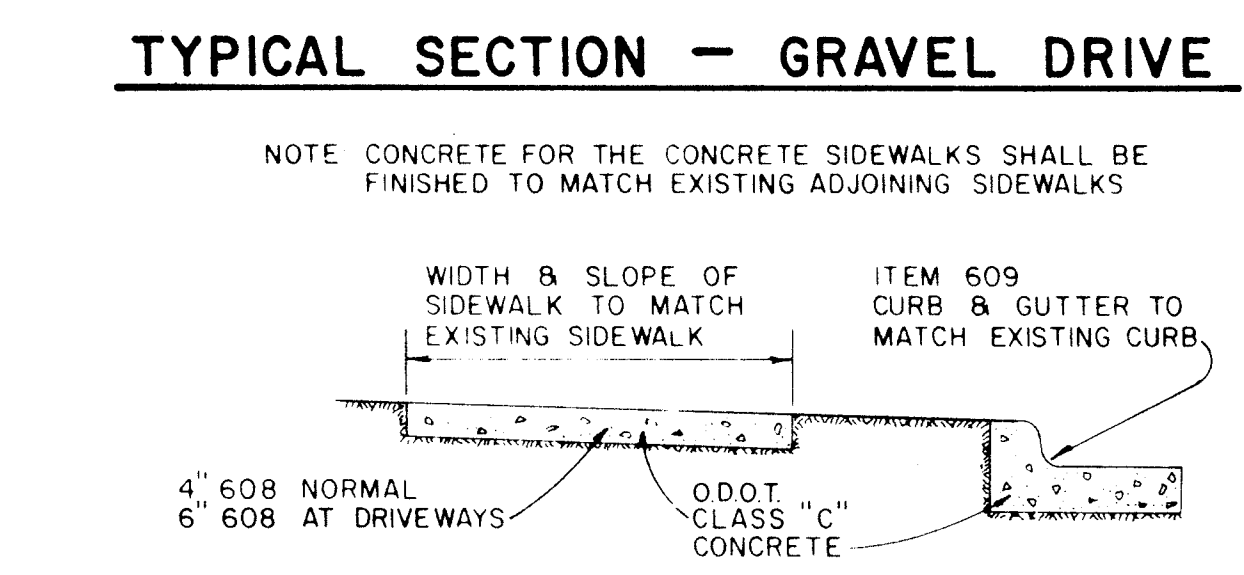
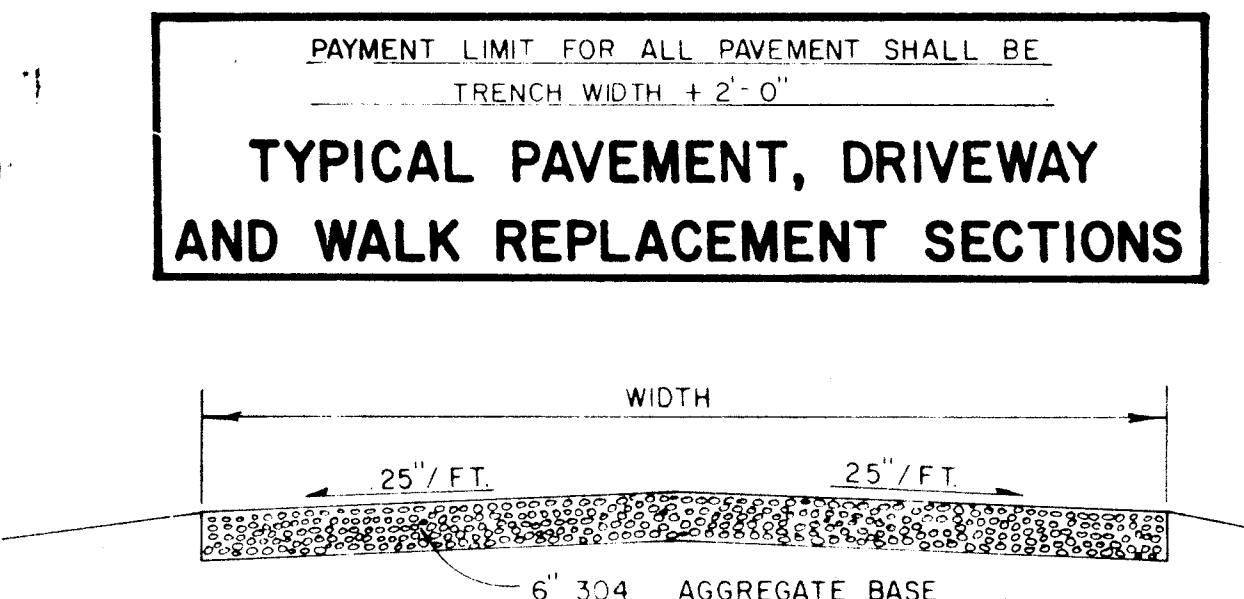
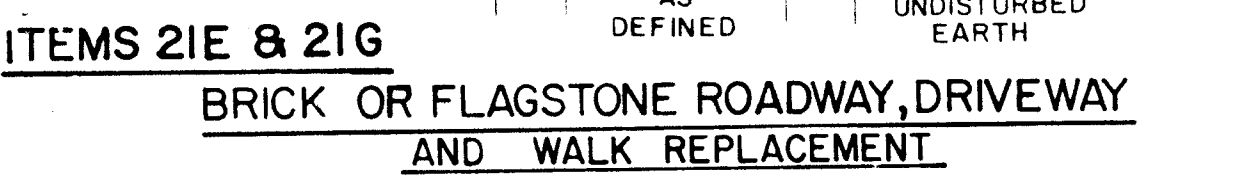
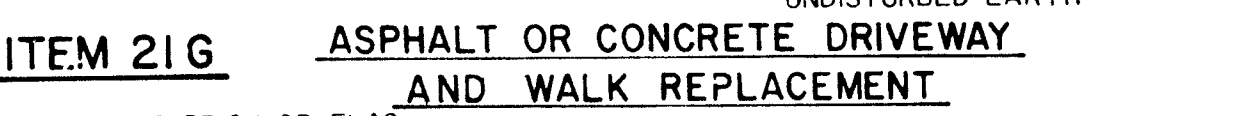
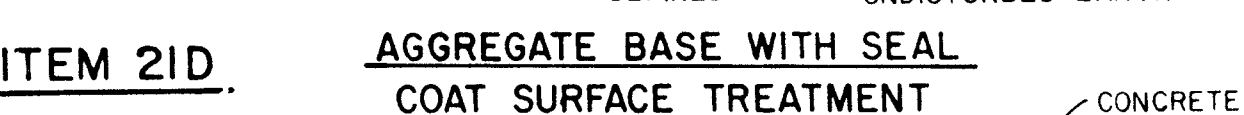
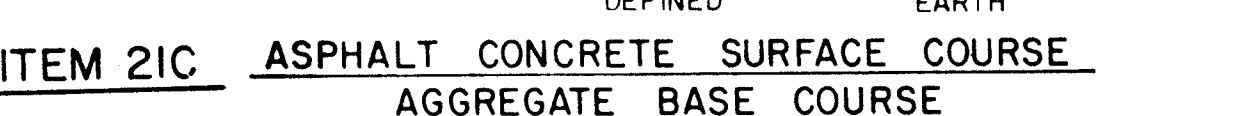
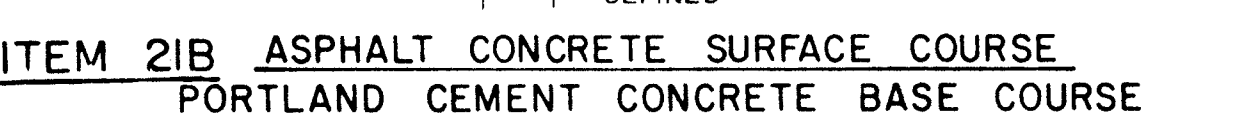
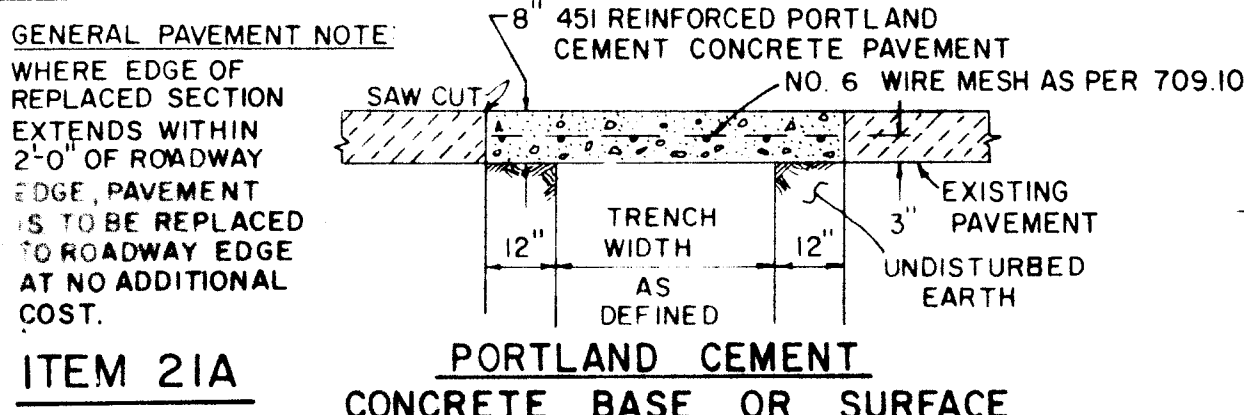
PRECAST CATCH BASIN TOP DETAILS

THE ESTATES OF GLENMOOR
 CATCH BASIN DETAILS

HAMMONTREE & ASSOCIATES, LTD.
 ENGINEERS PLANNERS SURVEYORS
 CANTON-ARON, OHIO
 CANTON: 216/499-8817
 AKRON: 216/633-7274

DATE: FEB. 1989
 SCALE: N.T.S.
 DWG. NO.





SEWER SIZE

8"	8"
10"	10"
12" - 15" - 18"	12"
21" - 24"	15"
27" - 30" - 36"	18"

TABLE OF DIMENSIONS

6"	16"
8"	17"
10"	18"
12"	19"

SEWER SIZES

D	4"	6"	8"	10"	12"	15"	18"
T	8"	12"	16"	18"	20"	24"	
W	2"	2"	3"	3"	3"	3"	

REVISIONS

No.	REVISION	DATE	BY	APP'D	No.	REVISION	DATE	BY	APP'D
1	GENERAL	2/82	T.H.T.	C.D.M.	11	GENERAL	4/88	R.L.W.	
2	MANHOLE CONNECTIONS	6/82	R.L.W.	C.D.M.	12	PAVEMENT NOTE	1/89	R.L.W.	
3		6/82	R.L.W.	C.D.M.		PRECAST M.H. REVISION	8/90	R.L.W.	
4	GRADE ADJ. NOTE	4/84	R.L.W.						
5	GENERAL	3/85	R.L.W.						
6		12/85	R.L.W.						
7		10/86	R.L.W.	C.D.M.					
8	BEDDING NOTE & REV BLOCK	1/87	R.L.W.	C.D.M.					
9	BORING DETAIL ADJ. M.D.	5/87	R.L.W.	C.D.M.					
10	PIPE TO M.H. CONN. N.	6/87	R.L.W.	C.D.M.					

I HEREBY CERTIFY THAT THIS PLAT OF THE ESTATES OF GLENMOOR SUBDIVISION NO. 4 LOCATED IN PART OF THE SOUTHEAST QUARTER OF SECTION 27, JACKSON TOWNSHIP (T-11, R-9) REPRESENTS A SURVEY MADE BY ME WHICH BALANCES AND CLOSES, THAT THE MONUMENTS SHOWN HEREON EXIST OR SHALL BE SET AS SHOWN AND THAT ALL DIMENSIONAL AND GEODETIC DETAILS ARE CORRECT.

DATE _____

53 LOTS

STARK COUNTY ENGINEER

STARK COUNTY SANITARY ENGINEER

STARK COUNTY AUDITOR

STARK COUNTY RECORDER

DATA USED FOR SURVEY:

BASIS OF BEARINGS:

N 05°52'44" E, THE WESTERLY LINE OF THE ESTATES OF GLENMOOR NO. 1
AS RECORDED IN PLAT BOOK 56, PAGES 83-85 OF THE STARK COUNTY
OFFICIAL RECORDS.

NOTARY PUBLIC

STARK COUNTY HEALTH DIRECTOR

STARK COUNTY COMMISSIONERS

PRESIDENT

SECRETARY

STARK COUNTY PROSECUTOR

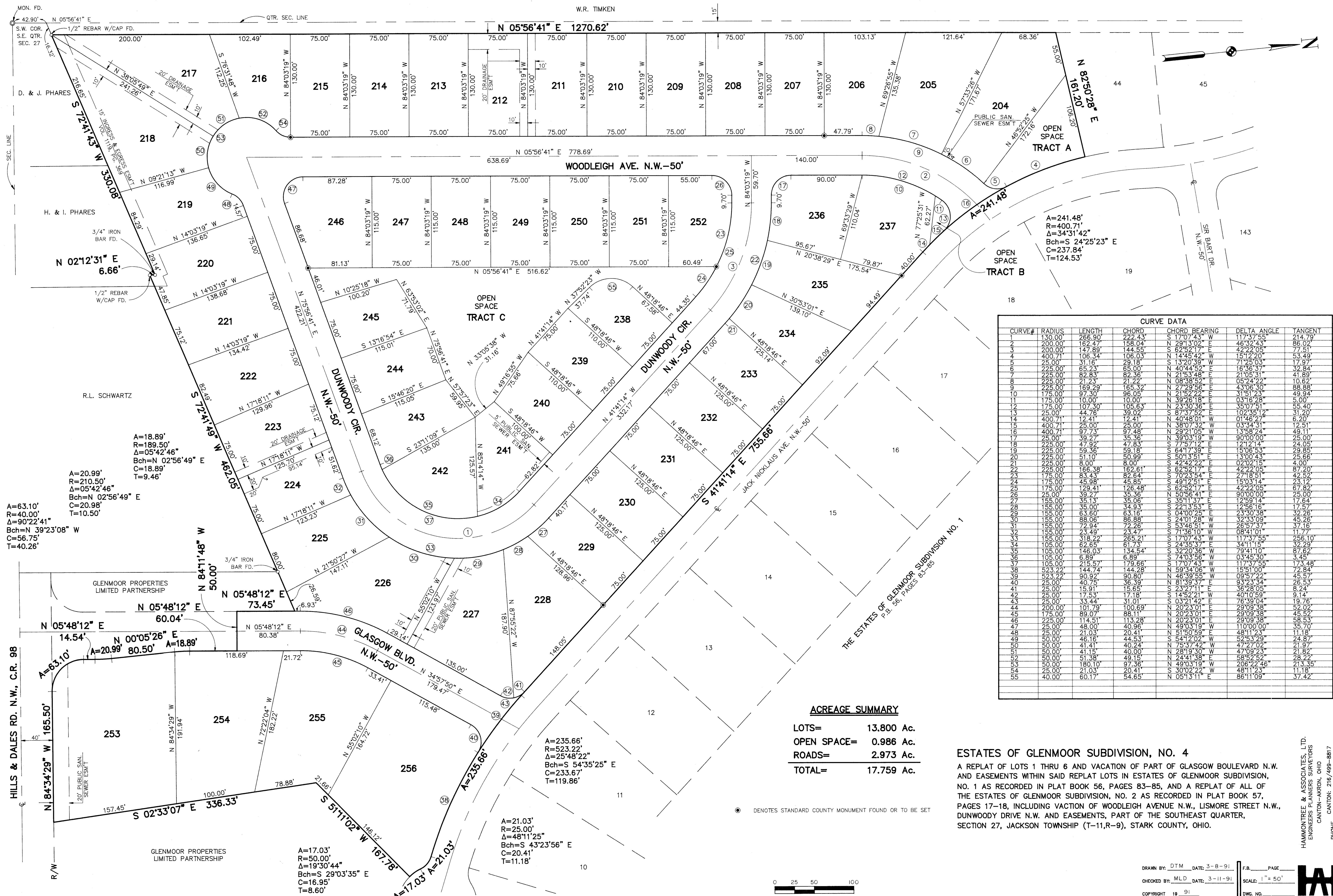
VOL. _____ PAGE _____ TYPE OF INSTRUMENT _____
VOL. _____ PAGE _____ TYPE OF INSTRUMENT _____
VOL. _____ PAGE _____ TYPE OF INSTRUMENT _____

OWNER
GLENMOOR PROPERTIES LIMITED PARTNERSHIP
34555 CHAGRIN BLVD.
MORELAND HILLS, OHIO 44022
PHONE: 216-247-4700

HAMMONTREE & ASSOCIATES, LTD.
ENGINEERS PLANNERS SURVEYORS
CANTON—AKRON, OHIO
CANTON: 216/499-8817
AKRON: 216/633-7274
PHONE



SHEET 1 OF 2



CURVE DATA					
CURVE #	RADIUS	LENGTH	CHORD	CHORD BEARING	DELTA ANGLE
1	130.00	266.90	222.43	S 17°07'43" W	117°37'55"
2	200.00	162.47	158.04	N 29°13'02" E	46°32'43"
3	200.00	147.89	144.55	S 62°52'17" E	42°22'05"
4	400.71	106.34	106.03	N 14°45'42" W	15°25'20"
5	25.00	31.16	29.18	S 13°20'39" W	71°25'03"
6	225.00	85.23	85.00	N 40°44'52" E	16°36'37"
7	225.00	82.83	82.36	N 21°53'48" E	21°05'31"
8	225.00	21.23	21.22	N 08°38'52" E	05°24'22"
9	225.00	169.29	165.32	N 27°29'56" E	43°06'30"
10	175.00	97.30	96.05	N 21°52'22" E	31°51'23"
11	175.00	10.00	10.00	N 39°28'18" E	03°18'28"
12	175.00	107.30	105.63	N 23°30'36" E	35°07'51"
13	25.00	44.76	39.02	S 87°37'52" E	102°35'12"
14	400.71	12.41	12.41	N 40°48'01" W	01°46'27"
15	400.71	25.00	25.00	N 38°07'32" W	03°34'31"
16	400.71	97.73	97.48	N 29°21'05" W	13°58'24"
17	25.00	39.27	35.36	N 39°03'19" W	90°00'00"
18	225.00	47.97	47.83	N 77°53'12" E	12°12'14"
19	225.00	59.36	59.18	N 64°17'39" E	15°06'53"
20	225.00	51.10	50.99	S 50°13'51" E	13°00'43"
21	225.00	8.00	8.00	S 42°42'22" E	02°02'15"
22	225.00	166.38	162.61	S 62°52'17" E	42°22'05"
23	175.00	83.43	82.64	S 70°23'54" E	27°18'51"
24	175.00	45.98	45.85	S 49°12'51" E	15°03'14"
25	175.00	129.41	126.48	S 62°52'17" E	42°22'05"
26	25.00	39.27	35.36	N 50°56'41" E	90°00'00"
27	155.00	35.13	35.06	S 35°11'37" E	12°59'14"
28	155.00	35.00	34.93	S 22°13'53" E	12°56'16"
29	155.00	63.60	63.16	S 04°00'25" E	23°30'38"
30	155.00	88.06	86.88	S 24°01'28" W	32°33'09"
31	155.00	72.94	72.26	S 53°46'51" W	26°57'37"
32	155.00	23.49	23.47	N 08°41'01" W	08°41'01"
33	155.00	318.22	265.21	N 17°07'43" W	11°37'55"
34	105.00	62.65	61.73	S 24°35'37" E	34°11'15"
35	105.00	146.03	134.54	S 32°20'36" W	79°41'10"
36	105.00	6.89	6.89	S 74°03'56" W	03°45'30"
37	105.00	215.57	179.66	S 17°07'43" W	11°37'55"
38	523.22	144.74	144.28	N 59°34'06" W	15°51'00"
39	523.22	30.97	30.80	N 48°39'55" W	09°57'22"
40	25.00	40.75	36.39	N 81°39'37" E	9°23'34"
41	25.00	15.91	15.65	S 23°27'11" E	36°28'05"
42	25.00	17.53	17.18	S 14°52'21" W	40°10'59"
43	25.00	33.44	31.01	S 03°21'42" E	76°39'04"
44	200.00	101.79	100.69	N 20°23'01" E	29°09'38"
45	175.00	89.07	88.11	N 20°23'01" E	29°09'38"
46	225.00	114.51	113.28	N 20°23'01" E	29°09'38"
47	25.00	48.00	40.96	N 49°03'19" W	11°00'00"
48	25.00	21.03	20.41	N 51°50'59" E	48°11'23"
49	50.00	46.16	44.53	S 54°12'02" W	52°53'29"
50	50.00	41.41	40.24	N 75°37'42" W	47°27'02"
51	50.00	41.15	40.00	N 28°19'30" W	47°09'23"
52	50.00	51.38	49.15	N 04°41'58" E	58°52'52"
53	50.00	180.10	97.36	N 49°03'19" W	20°22'46"
54	25.00	21.03	20.41	S 30°02'22" W	48°11'23"
55	40.00	60.17	54.65	N 05°13'11" E	86°11'09"

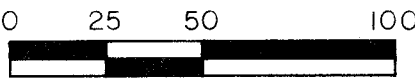
ACREAGE SUMMARY

LOTS=	13.800 Ac.
OPEN SPACE=	0.986 Ac.
ROADS=	2.973 Ac.
TOTAL=	17.759 Ac.

ESTATES OF GLENMOOR SUBDIVISION, NO. 4

A REPLAT OF LOTS 1 THRU 6 AND VACATION OF PART OF GLASGOW BOULEVARD N.W. AND EASEMENTS WITHIN SAID REPLAT LOTS IN ESTATES OF GLENMOOR SUBDIVISION, NO. 1 AS RECORDED IN PLAT BOOK 56, PAGES 83-85, AND A REPLAT OF ALL OF THE ESTATES OF GLENMOOR SUBDIVISION, NO. 2 AS RECORDED IN PLAT BOOK 57, PAGES 17-18, INCLUDING VACATION OF WOODLEIGH AVENUE N.W., LISMORE STREET N.W., DUNWOODY DRIVE N.W. AND EASEMENTS, PART OF THE SOUTHEAST QUARTER, SECTION 27, JACKSON TOWNSHIP (T-11,R-9), STARK COUNTY, OHIO.

● DENOTES STANDARD COUNTY MONUMENT FOUND OR TO BE SET



DRAWN BY: DTM DATE: 3-8-91
CHECKED BY: MLD DATE: 3-11-91
F.B. PAGE
SCALE: 1"= 50'
DWS. NO.

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