

PANORAMA IMPROVEMENT DISTRICT  
 Approved: \_\_\_\_\_  
 President

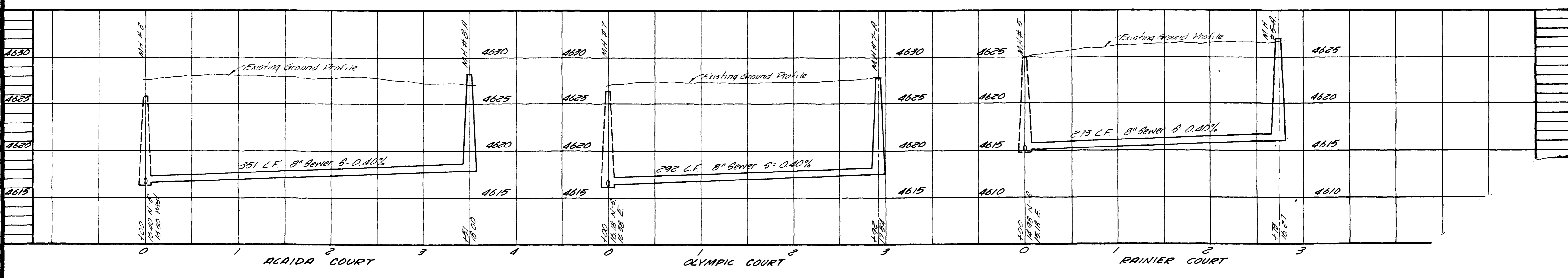
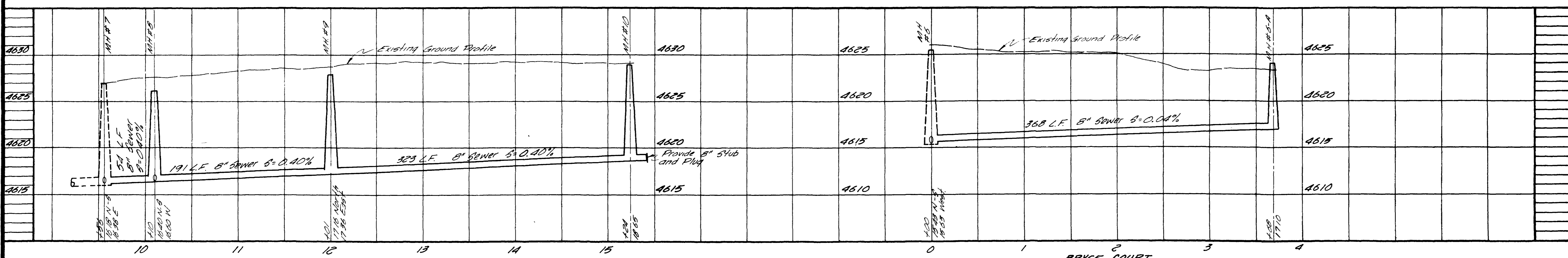
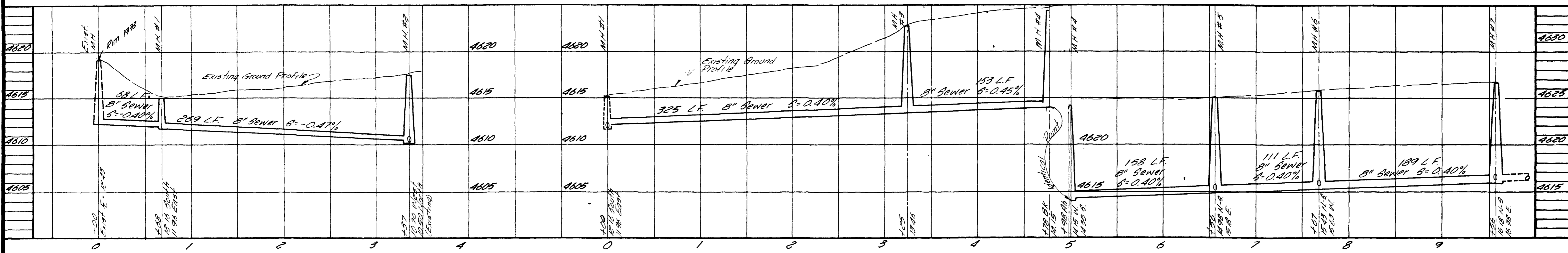
*[Signature]*

FILE

REVISIONS		DATE	DRAWN	CHECKED	APPROVED	PROJECT NO.	CONSULTANTS	LOCATION	PROJECT NAME	SHEET
BY	DATE	DESCR.								
BY	DATE	DESCR.								
BY	DATE	DESCR.								

DATE	DRAWN	CHECKED	APPROVED	PROJECT NO.	CONSULTANTS	LOCATION	PROJECT NAME	SHEET
Aug, 1972	T.A.L.	J.T.P.	J.T.P.	71-2-GUT-0133	NELSON - HALEY - PATTERSON AND QUIRK ENGINEERING CONSULTANTS	GREELEY & GRAND JUNCTION COLORADO	MONUMENT VILLAGE Filing No. 1 MESA COUNTY, COLORADO	2 SHEETS / 1



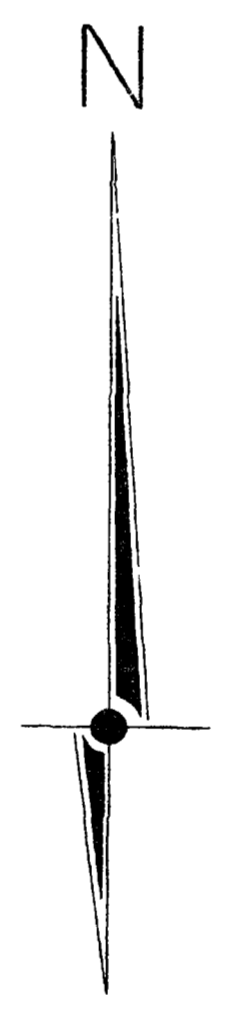
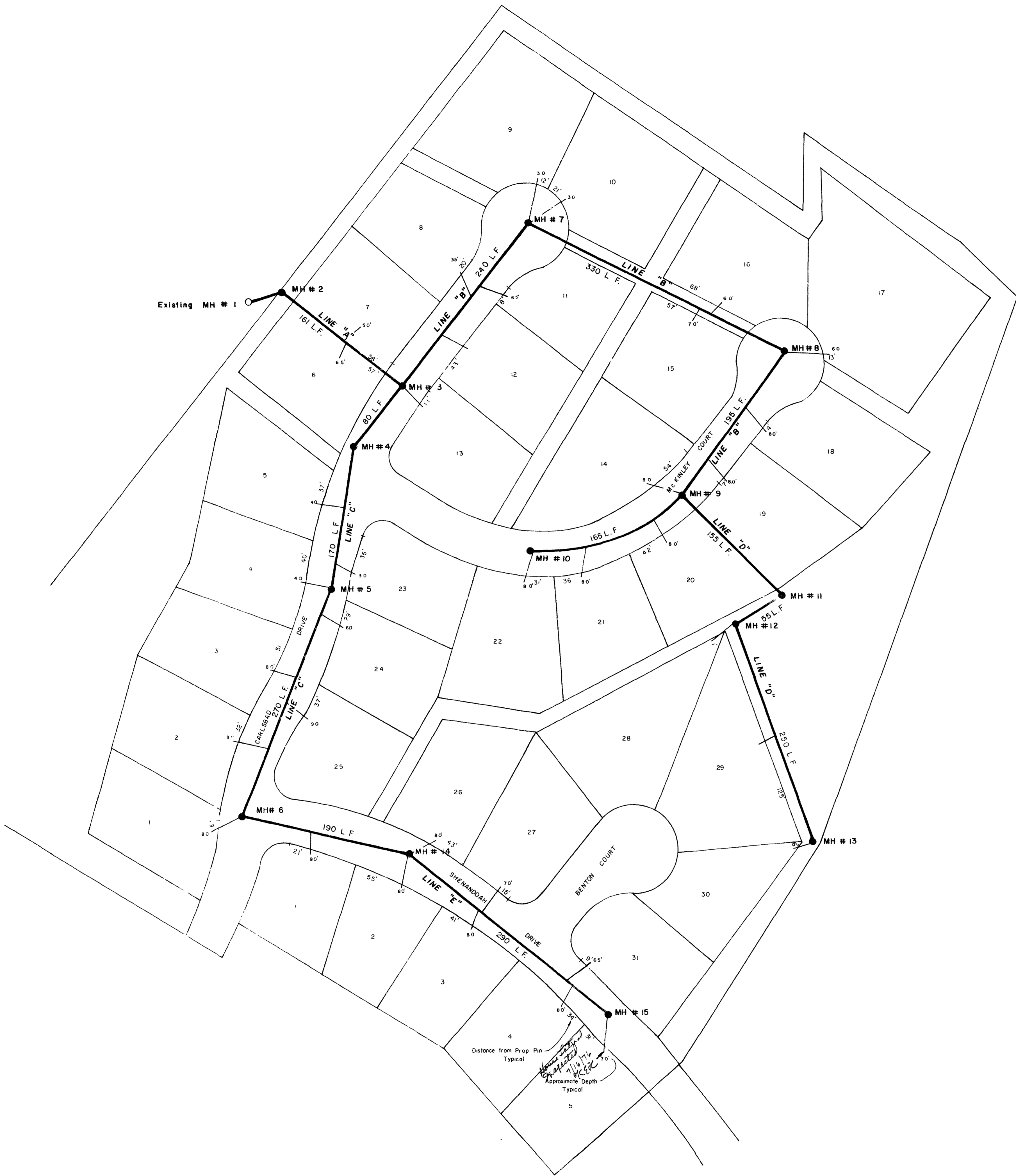
REVISIONS		
BY _____	DATE _____	DESCR. _____
BY _____	DATE _____	DESCR. _____
BY _____	DATE _____	DESCR. _____

DATE Aug. 1972  
 SCALE 1"=50' Horiz.  
 DRAWN JAL  
 CHECKED JTP  
 APPROVED JTP

PROJECT NO. 71-2-SUT-0193  
**NELSON - HALEY - PATTERSON AND QUIRK**  
 ENGINEERING CONSULTANTS  
 GREELEY - Grand Junction COLORADO

**MONUMENT VILLAGE**  
 Filing No. 1  
 MESA COUNTY, COLORADO

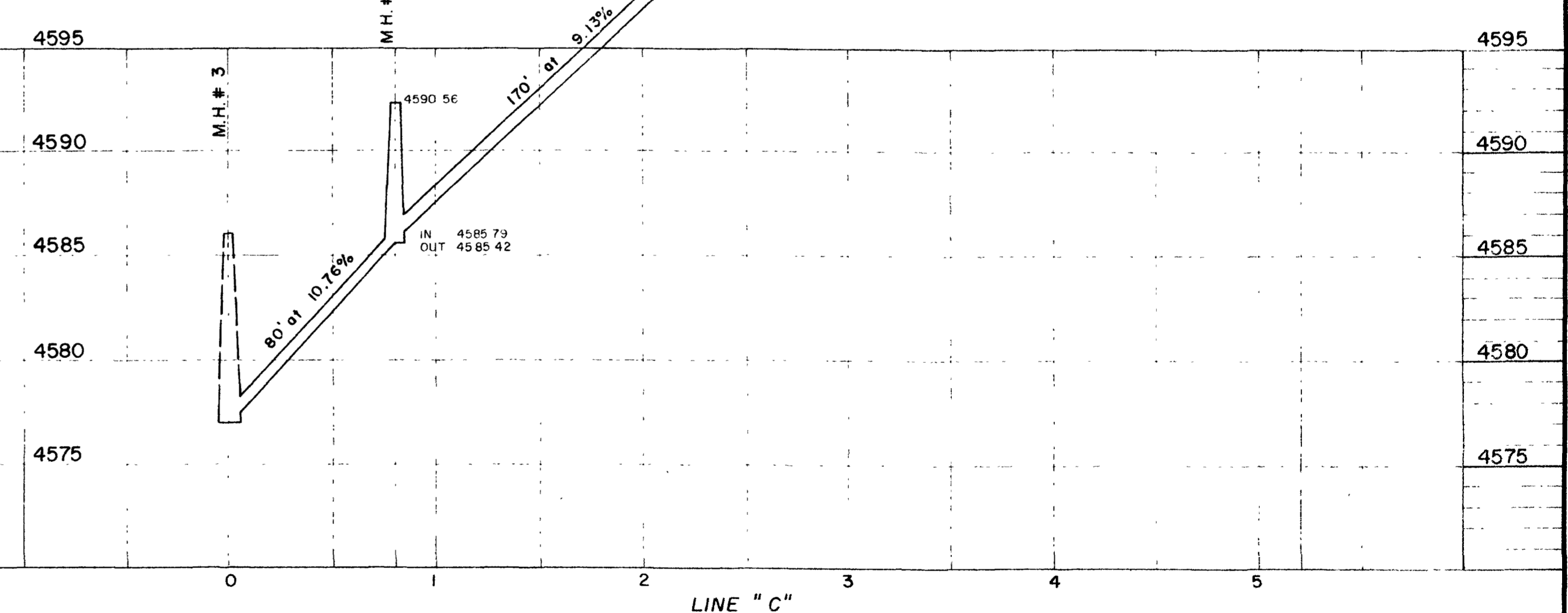
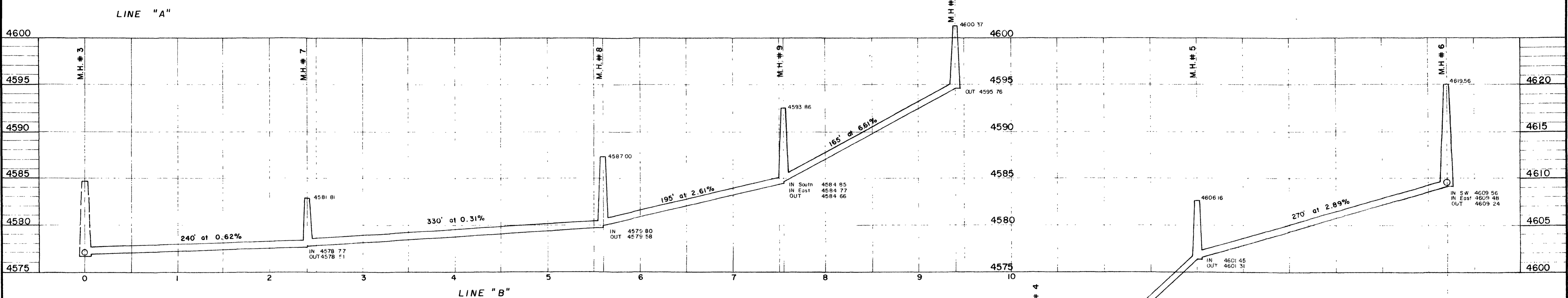
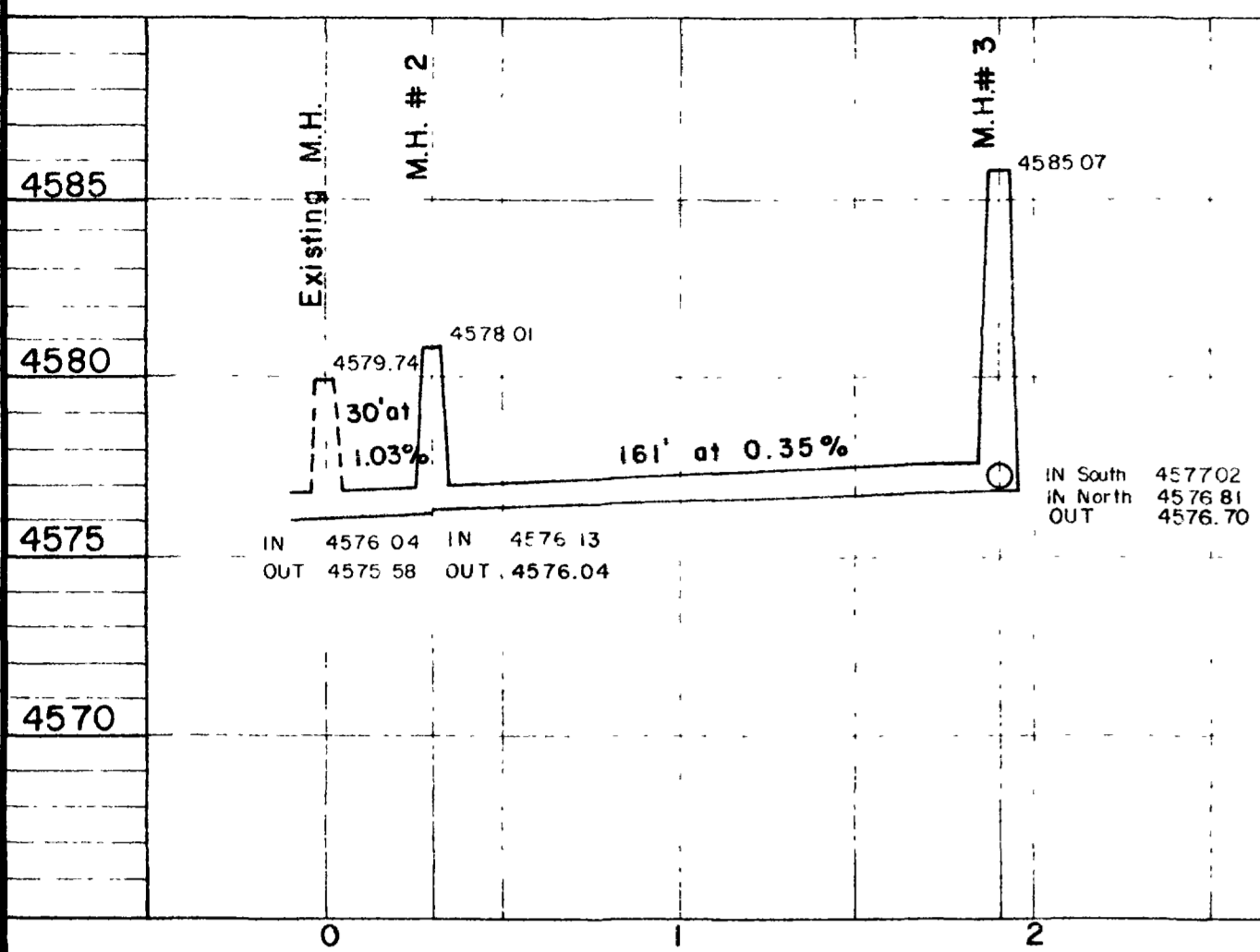
**SANITARY SEWER**  
 02100702.tif



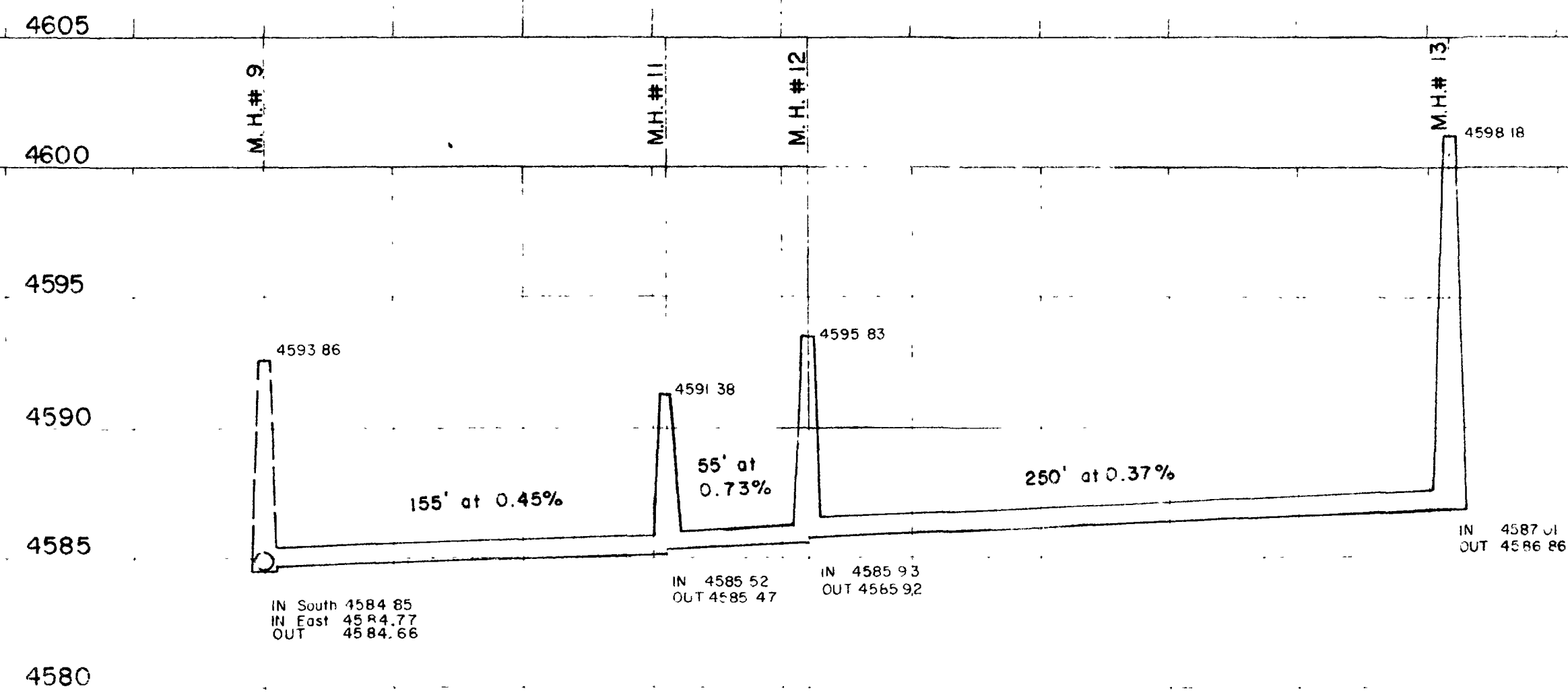
APPROXIMATE SCALE 1" = 60'

Distance from Prop. Pin  
Typical  
Approximate Depth  
Typical

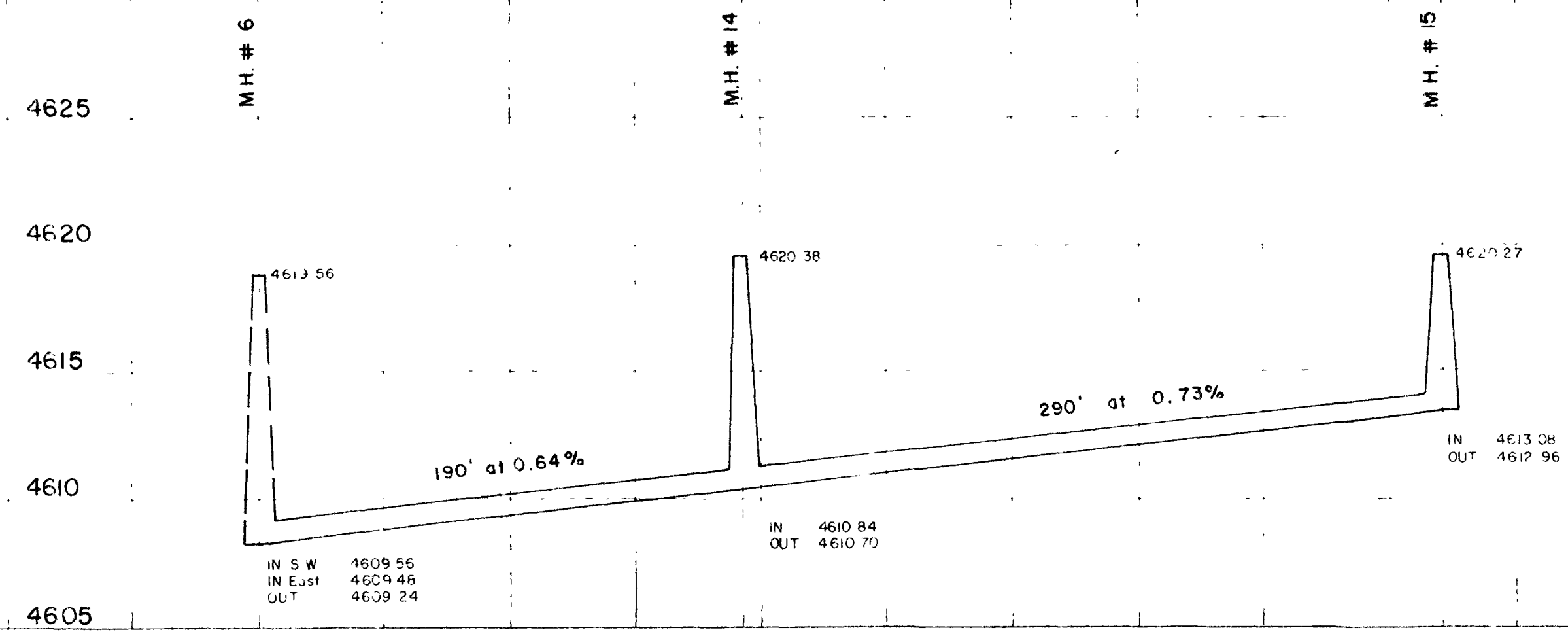
	<b>ARMSTRONG ENGINEERS</b> ENGINEERING - SURVEYING CONCRETE & SOILS TESTING	
	Monument Village Filing No. 2 As Built Sewer Plans	
	DRAWN BY F.E.H.	CHECKED BY E.A.D.
	SHEET 1 of 3	JOB NUMBER



	<b>ARMSTRONG ENGINEERS</b> ENGINEERING - SURVEYING CONCRETE & SOILS TESTING	
	Monument Village Filing No 2 As Built Sewer Plans	
	SHEET 2 of 3	JOB NUMBER
	DATE: _____ DRAWN BY: P.E.H. CHECKED BY: E.A.A. DATE: 7/2/04	

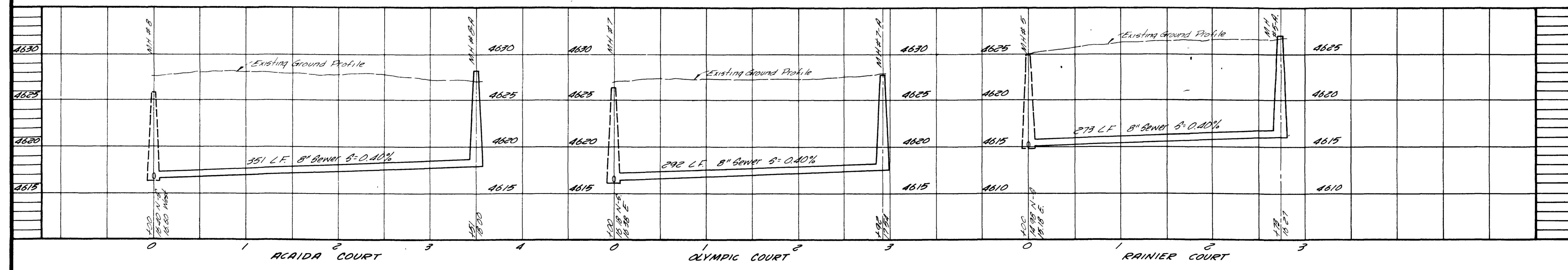
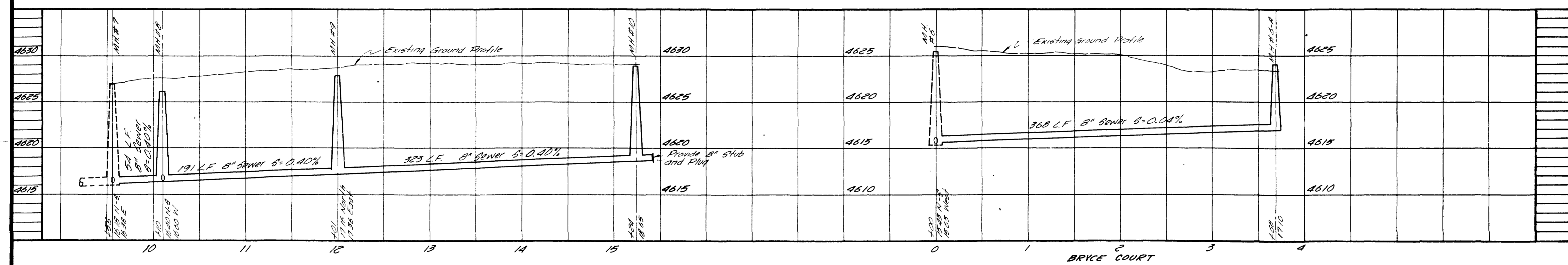
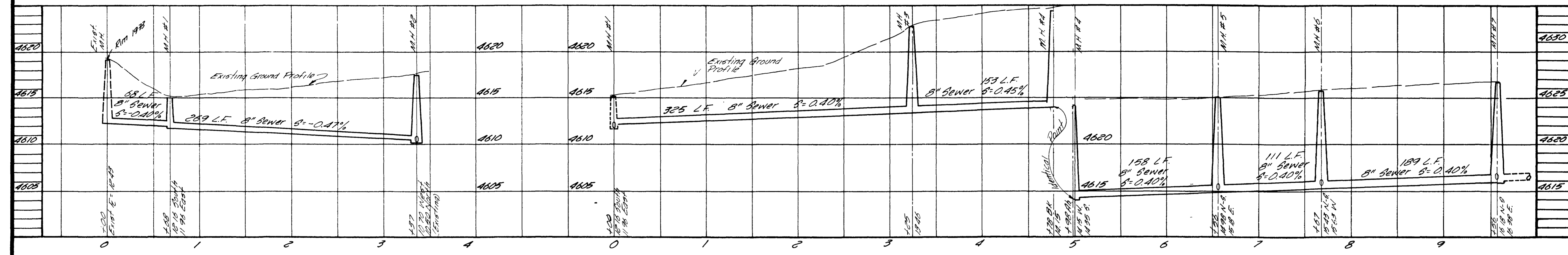


LINE "D"



LINE "E"

	ARMY ENGINEER
	UNIT
	DATE
	SCALE
	Major: _____ Minor: _____ Date: _____



REVISIONS			
BY	DATE	DESCR.	
BY	DATE	DESCR.	
BY	DATE	DESCR.	

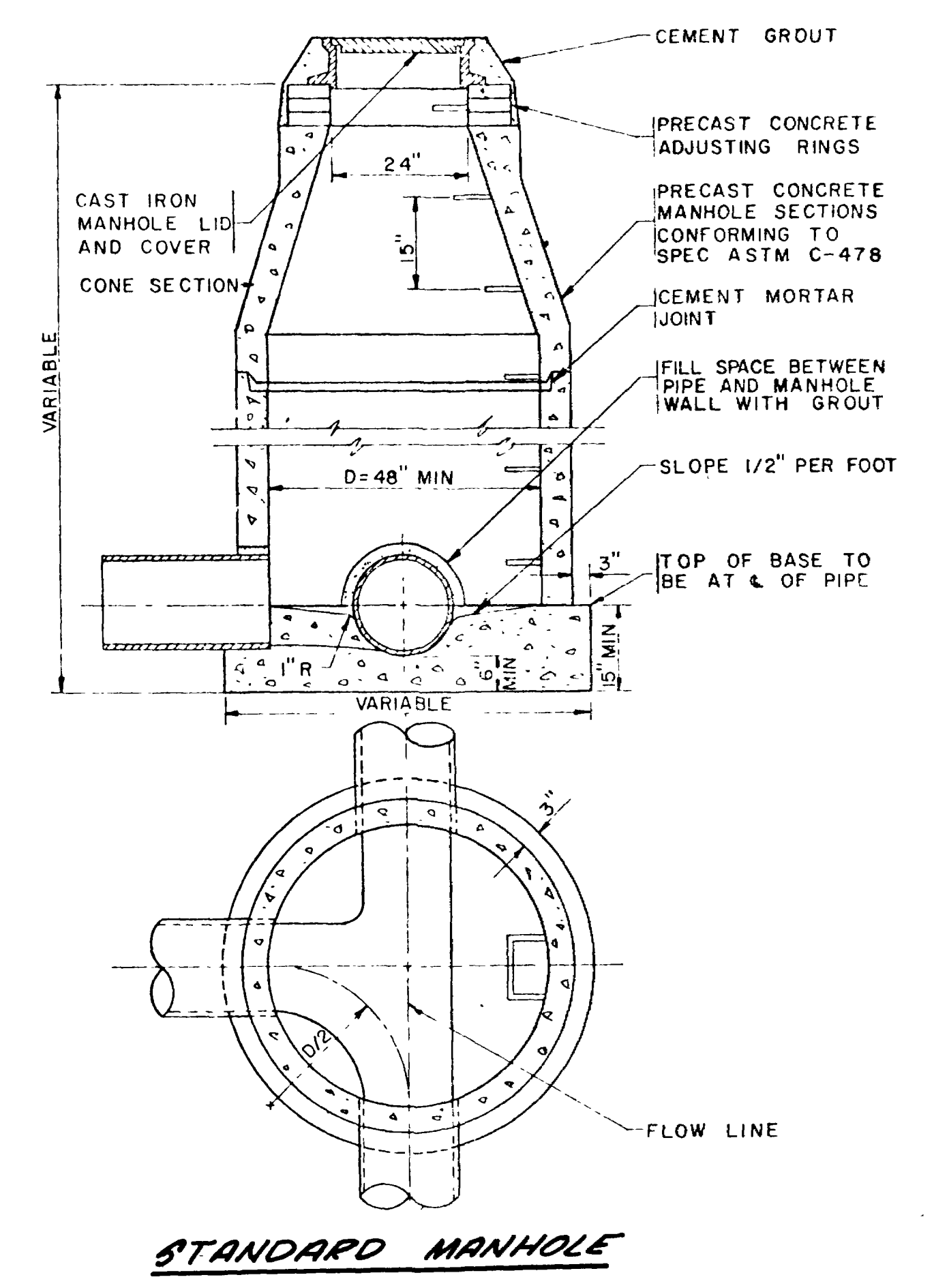
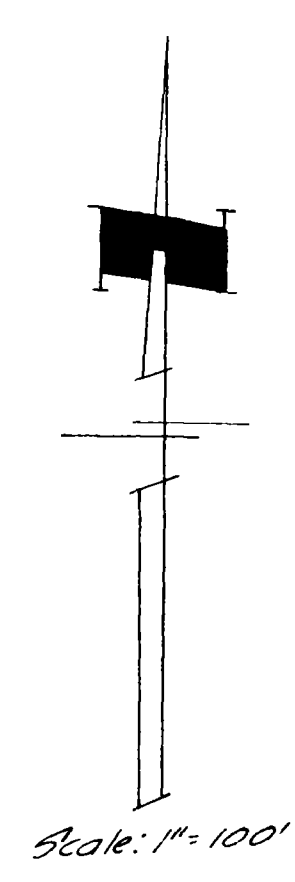
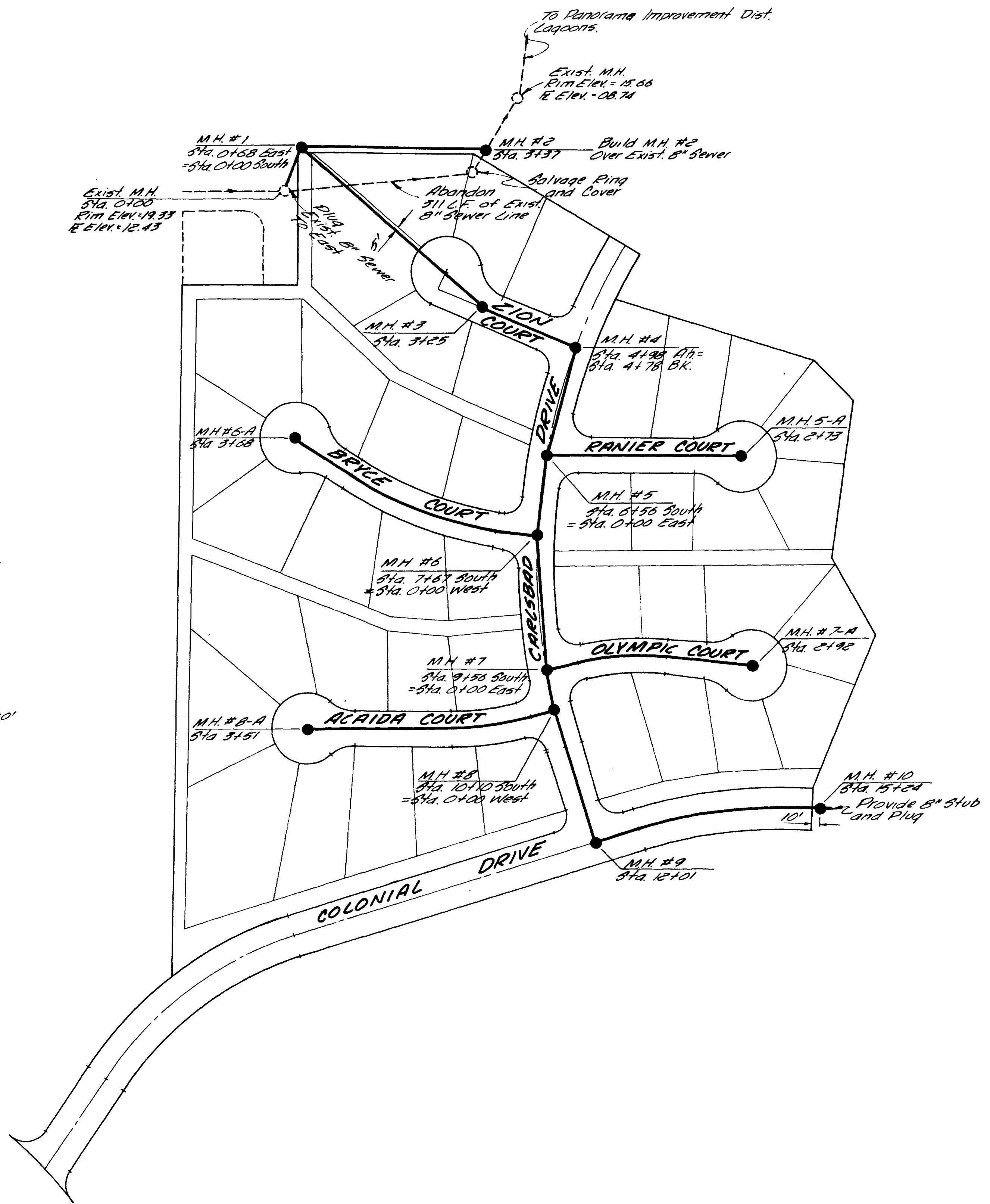
DATE: Aug. 1970  
 SCALE: 1"=50' Vert  
 1"=80' Horiz  
 DRAWN: TAU  
 CHECKED: UTP  
 APPROVED: UTP

PROJECT NO.  
 71-C-801-0193

NELSON - HALEY - PATTERSON AND QUIRK  
 ENGINEERING CONSULTANTS  
 GREELEY - Grand Junction  
 COLORADO

MONUMENT VILLAGE  
 Filing No. 1  
 MESA COUNTY, COLORADO

SANITARY SEWER PROFILE  
 SHEET

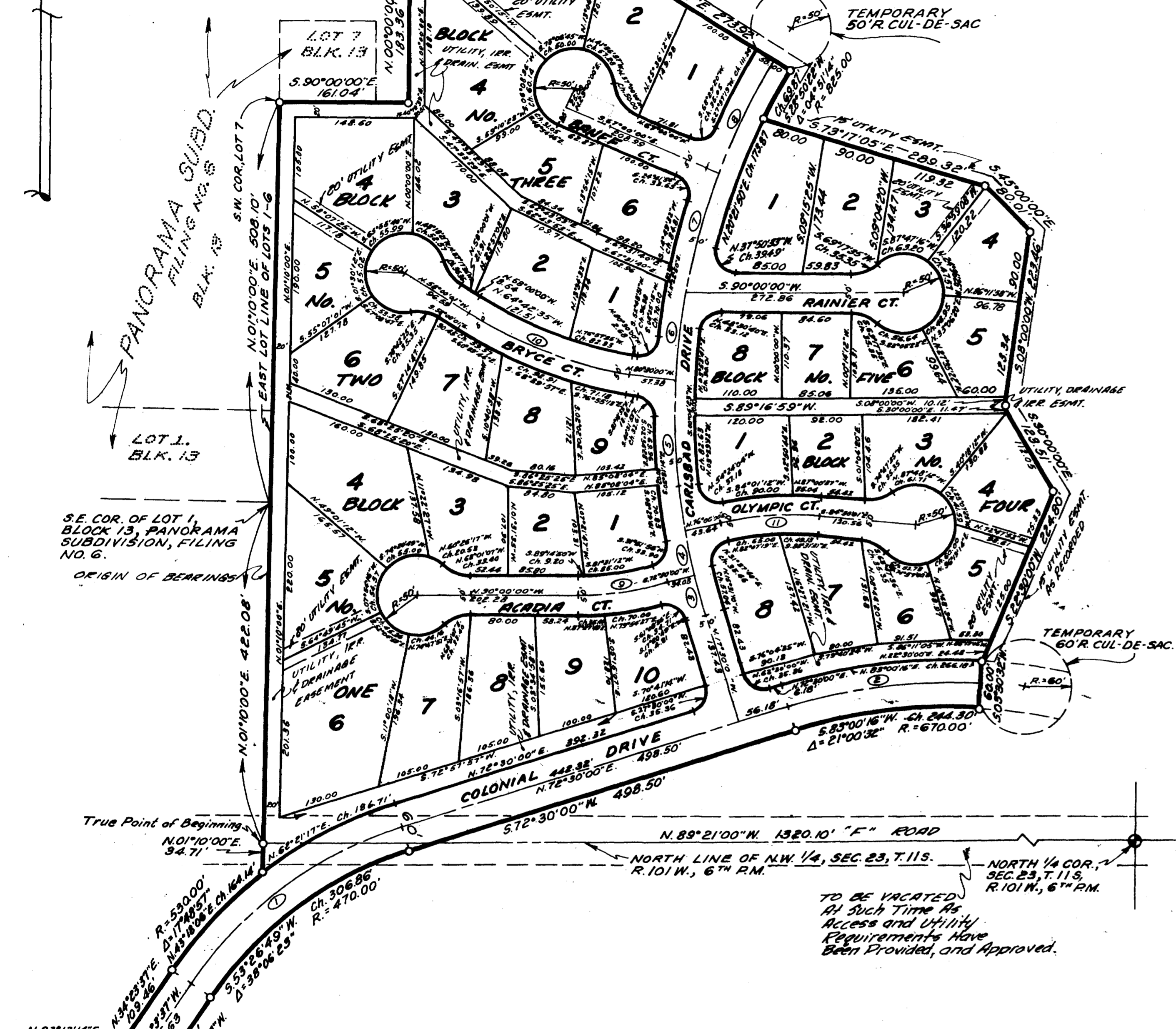
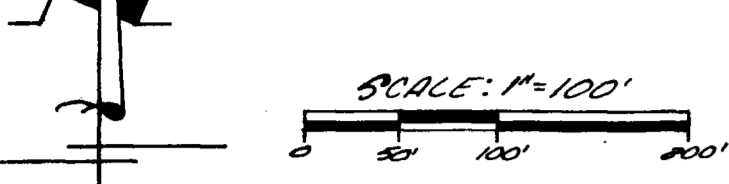


PANORAMA IMPROVEMENT DISTRICT  
 Approved: \_\_\_\_\_  
 President

REVISIONS BY DATE DESCR BY DATE DESCR BY DATE DESCR		DATE <u>Aug, 1972</u> SCALE <u>1" = 100'</u>	DRAWN <u>JAL</u> CHECKED <u>JTP</u> APPROVED <u>JTP</u>	PROJECT NO. <u>71-2-6UT-0133</u>	NELSON - HALEY - PATTERSON AND QUIRK ENGINEERING CONSULTANTS GREELEY & GRAND JUNCTION COLORADO	MONUMENT VILLAGE Filings No. 1 MESA COUNTY, COLORADO	SANITARY SEWER PLAN	SHEET <u>2</u> SHEETS <u>1</u>
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# MONUMENT VILLAGE SUBDIVISION FILING NO. 1

NOTE:  
A vacation of a portion of-  
Panorama Subdivision, Filing No. 6  
in Book 10 Page 2, Document No. 591547  
of the Mesa County Records.



CURVE	DELTA	RADIUS	ARC	TANGENT	CHORD	CH. BEARING
1	38°05'23"	500.00	332.54	172.68	326.44	N. 53°26'49"E.
2	21°00'32"	700.00	256.67	129.79	255.24	N. 83°00'16"E.
3	03°40'52"	850.00	54.61	27.32	54.40	N. 15°39'35"W.
4	03°37'44"	850.00	53.83	26.83	53.83	N. 12°00'16"W.
5	12°44'05"	850.00	188.92	94.86	188.54	N. 03°49'22"W.
6	07°28'08"	850.00	110.80	55.48	110.73	N. 06°16'45"E.
7	10°39'01"	850.00	158.00	79.23	157.77	N. 05°20'20"E.
8	10°36'09"	850.00	157.29	78.87	157.07	N. 25°57'54"E.
9	17°30'00"	375.00	114.54	57.72	114.09	S. 81°15'00"W.
10	22°30'00"	545.00	214.02	108.41	212.65	N. 69°15'00"W.
11	19°30'00"	375.00	127.63	64.44	127.01	N. 85°45'00"E.

- NOTES:
- ALL CURVE RETURN RADIUS AT STREET INTERSECTIONS ARE 25 FEET UNLESS OTHERWISE NOTED.
  - ALL CUL-DE-SAC RETURN RADIUS ARE 50 FEET UNLESS OTHERWISE NOTED.

- LEGEND:
- Mesa County Brass Cap
  - Indicates Concrete Monuments
  - Indicates Curve Number
  - A 1/2" Rebar and Monument Cap at All Corners

APPROVED FOR CONTENT AND FORM ONLY AND NOT TO THE ACCURACY OF SURVEYS, CALCULATIONS OR DRAFTING, PURSUANT TO C.R.S. 1963, 136-2-2 AS AMENDED.

By: \_\_\_\_\_ DATE \_\_\_\_\_  
MESA COUNTY SURVEYOR

## DEDICATION

KNOW ALL MEN BY THESE PRESENTS:  
THAT THE UNDERSIGNED, SURF VIEW DEVELOPMENT CO., A CALIFORNIA CORPORATION, EUGENE B. FLETCHER, PRESIDENT, FRANK N. NISLEY JR., AND JAMES R. BIBER, ARE THE OWNERS OF THAT REAL PROPERTY SITUATED IN THE COUNTY OF MESA, STATE OF COLORADO, AND LYING IN A PART OF THE SOUTHWEST QUARTER OF SECTION 14, AND A PART OF THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 23 ALL IN TOWNSHIP 11 SOUTH RANGE 101 WEST OF THE SIXTH PRINCIPAL MERIDIAN AS SHOWN ON THE ACCOMPANYING PLAT THEREOF, SAID PLAT BEING MORE SPECIFICALLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTH QUARTER CORNER (N1/4COR) OF SECTION 23, TOWNSHIP 11 SOUTH RANGE 101 WEST OF THE SIXTH PRINCIPAL MERIDIAN:  
THENCE NORTH 89° 21' 00" WEST, ALONG THE NORTH LINE OF THE NORTHWEST QUARTER (NW1/4) OF SAID SECTION 23, 1,320.10 FEET TO THE TRUE POINT OF BEGINNING;  
THENCE NORTH 01° 10' 00" EAST 422.08 FEET TO THE SOUTHWEST CORNER OF LOT 1, BLOCK 13 OF PANORAMA SUBDIVISION FILING NO. 6 AS FILED AND RECORDED IN THE OFFICE OF THE MESA COUNTY CLERK AND RECORDER;  
THENCE NORTH 01° 10' 00" EAST ALONG THE EASTERLY LOT LINE OF LOTS 1 THRU 6 OF SAID PANORAMA SUBDIVISION FILING NO. 6, 508.00 FEET TO THE SOUTHWEST CORNER (SW COR) OF LOT 7 BLOCK 13 OF SAID PANORAMA SUBDIVISION FILING NO. 6;  
THENCE SOUTH 90° 00' 00" EAST ALONG AN EXTENSION OF THE SOUTH LINE OF SAID LOT 7, 161.04 FEET;  
THENCE NORTH 00° 01' 00" EAST, 183.36 FEET;  
THENCE SOUTH 90° 00' 00" EAST, 245.59 FEET;  
THENCE SOUTH 58° 44' 01" EAST, 273.92 FEET;  
THENCE ALONG THE ARC OF A CIRCULAR CURVE TO THE LEFT, NOT TANGENT TO THE PREVIOUS COURSE, 69.89 FEET, SAID CURVE HAVING A RADIUS OF 825.00 FEET AND A CENTRAL ANGLE OF 04° 51' 14";  
THENCE SOUTH 73° 17' 05" EAST, 289.32 FEET;  
THENCE SOUTH 45° 00' 00" EAST, 80.01 FEET;  
THENCE SOUTH 08° 00' 00" WEST, 223.46 FEET;  
THENCE SOUTH 30° 00' 00" EAST, 123.51 FEET;  
THENCE SOUTH 22° 30' 00" WEST, 224.80 FEET;  
THENCE SOUTH 03° 30' 32" WEST, 60.00 FEET;  
THENCE ALONG THE ARC OF A CIRCULAR CURVE TO THE LEFT, NOT TANGENT TO THE PREVIOUS COURSE, 245.87 FEET, SAID CURVE HAVING A RADIUS OF 670.00 FEET AND A CENTRAL ANGLE OF 21° 00' 32";  
THENCE SOUTH 72° 30' 00" WEST, 498.50 FEET;  
THENCE ALONG THE ARC OF A CIRCULAR CURVE TO THE LEFT 312.59 FEET, SAID CURVE HAVING A RADIUS OF 470.00 FEET AND A CENTRAL ANGLE OF 38° 06' 23";  
THENCE SOUTH 34° 23' 37" WEST, 134.16 FEET;  
THENCE ALONG THE ARC OF A CIRCULAR CURVE TO THE LEFT 46.51 FEET, SAID CURVE HAVING A RADIUS OF 35.00 FEET AND A CENTRAL ANGLE OF 76° 08' 01" TO A POINT ON THE NORTH RIGHT-OF-WAY LINE OF COLORADO STATE HIGHWAY NO. 340;  
THENCE ALONG THE NORTH RIGHT-OF-WAY LINE OF SAID COLORADO STATE HIGHWAY NO. 340 BY THE ARC OF A CIRCULAR CURVE TO THE LEFT, 128.60 FEET, SAID CURVE HAVING A RADIUS OF 1,186.00 FEET AND A CENTRAL ANGLE OF 06° 12' 45";  
THENCE ALONG THE ARC OF A CIRCULAR CURVE TO THE LEFT, NOT TANGENT TO THE PREVIOUS COURSE, 59.65 FEET, SAID CURVE HAVING A RADIUS OF 35.00 FEET AND A CENTRAL ANGLE OF 97° 39' 14";  
THENCE NORTH 34° 23' 37" EAST, 109.46 FEET;  
THENCE ALONG THE ARC OF A CIRCULAR CURVE TO THE RIGHT, 164.80 FEET, SAID CURVE HAVING A RADIUS OF 530.00 FEET AND A CENTRAL ANGLE OF 17° 48' 57";  
THENCE NORTH 01° 10' 00" EAST, 34.71 FEET TO THE TRUE POINT OF BEGINNING.  
SAID TRACT OF LAND CONTAINS 19.83 ACRES.  
THAT THE SAID OWNERS HAVE CAUSED THE SAID REAL PROPERTY TO BE LAID OUT AND SURVEYED AS MONUMENT VILLAGE SUBDIVISION FILING NO. 1, A SUBDIVISION OF A PART OF THE COUNTY OF MESA.

THAT SAID OWNERS DO HEREBY DEDICATE AND SET APART ALL OF THE STREETS AND ROADS AS SHOWN ON THE ACCOMPANYING PLAT TO THE USE OF THE PUBLIC FOREVER AND HEREBY DEDICATE THOSE PORTIONS OF SAID REAL PROPERTY WHICH ARE LABELED AS UTILITY EASEMENTS ON THE ACCOMPANYING PLAT AS EASEMENTS FOR THE INSTALLATION AND MAINTENANCE OF SUCH UTILITIES AS TELEPHONE AND ELECTRIC LINES, POLES AND CABLES; STORM AND SANITARY MAINS; WATER MAINS; GAS PIPE LINES; AND THOSE PORTIONS OF SAID REAL PROPERTY WHICH ARE LABELED AS IRRIGATION EASEMENTS ON THE ACCOMPANYING PLAT AS EASEMENTS FOR THE INSTALLATION AND MAINTENANCE OF IRRIGATION DITCHES, FLUMES AND CONDUITS;

THAT ALL EXPENSE OF INSTALLATION OF UTILITIES OR DITCHES REFERRED TO ABOVE, FOR GRADING OR LANDSCAPING AND FOR STREET GRAVELING OR IMPROVEMENTS SHALL BE FINANCED BY THE SELLER OR PURCHASER--NOT BY THE COUNTY OF MESA.  
IN WITNESS WHEREOF, SAID SURF VIEW DEVELOPMENT CO., A CALIFORNIA CORP. HAS CAUSED IT CORPORATE NAME TO BE HEREUNTO SUBSCRIBED BY ITS PRESIDENT AND HAS AFFIXED ITS CORPORATE SEAL HEREUNTO AND FRANK W. NISLEY AND JAMES R. BIBER, INDIVIDUALS, HAVE CAUSED THEIR NAMES TO BE HEREUNTO SUBSCRIBED THIS 10th DAY OF July, 1972 A.D.

*Frank N. Nisley Jr.*  
FRANK N. NISLEY JR.  
*Eugene B. Fletcher*  
EUGENE B. FLETCHER, PRESIDENT  
SURF VIEW DEVELOPMENT CO.  
*James R. Biber*  
JAMES R. BIBER

STATE OF COLORADO )  
COUNTY OF MESA ) SS  
THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS 10th DAY OF July A.D., 1972 BY EUGENE B. FLETCHER AS PRES. OF SURF VIEW DEVELOPMENT CO., A CALIF. CORP., FRANK N. NISLEY AND JAMES R. BIBER.  
MY COMMISSION EXPIRES April 5, 1975  
WITNESS MY HAND AND OFFICIAL SEAL

*Donald H. Wang*  
NOTARY PUBLIC

## CLERK AND RECORDER'S CERTIFICATE

STATE OF COLORADO )  
COUNTY OF MESA ) SS  
I HEREBY CERTIFY THAT THIS INSTRUMENT WAS FILED IN MY OFFICE AT \_\_\_\_\_ O'CLOCK \_\_\_\_\_ M. \_\_\_\_\_ A.D., 1972 AND IS DULY RECORDED IN PLAT BOOK NO. \_\_\_\_\_ PAGE \_\_\_\_\_  
CLERK AND RECORDER \_\_\_\_\_ DEPUTY \_\_\_\_\_ FEES \$ \_\_\_\_\_

## COUNTY PLANNING COMMISSION CERTIFICATE

APPROVED THIS 10th DAY OF June A.D., 1972.  
COUNTY PLANNING COMMISSION OF THE COUNTY OF MESA, COLORADO.  
*James E. Duggan*  
CHAIRMAN

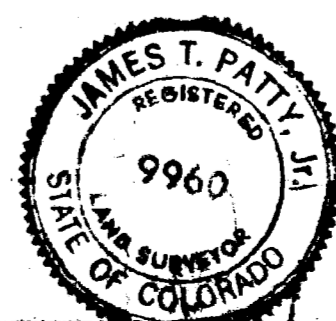
## BOARD OF COUNTY COMMISSIONERS CERTIFICATE

APPROVED THIS 10th DAY OF July A.D., 1972.  
BOARD OF COUNTY COMMISSIONERS OF THE COUNTY OF MESA, COLORADO.  
*Edwin S. Hansen*  
CHAIRMAN

## SURVEYOR'S CERTIFICATE

I, JAMES T. PATTY, JR., DO HEREBY CERTIFY THAT THE ACCOMPANYING PLAT OF MONUMENT VILLAGE SUBDIVISION FILING NO. 1, A SUBDIVISION OF A PART OF THE COUNTY OF MESA HAS BEEN PREPARED UNDER MY DIRECTION, AND ACCURATELY REPRESENTS A FIELD SURVEY OF SAME.

*James T. Patty Jr.*  
DATE 7-10-72  
MESA COUNTY SURVEYOR  
DATE 7-10-72  
WITNESS

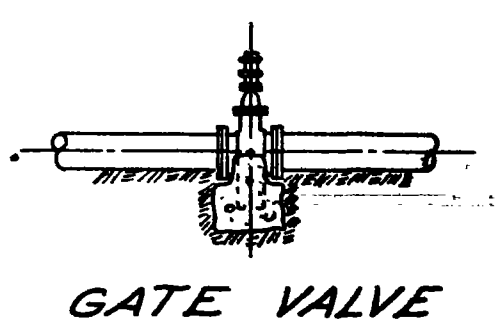
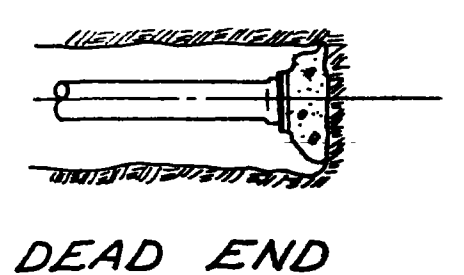
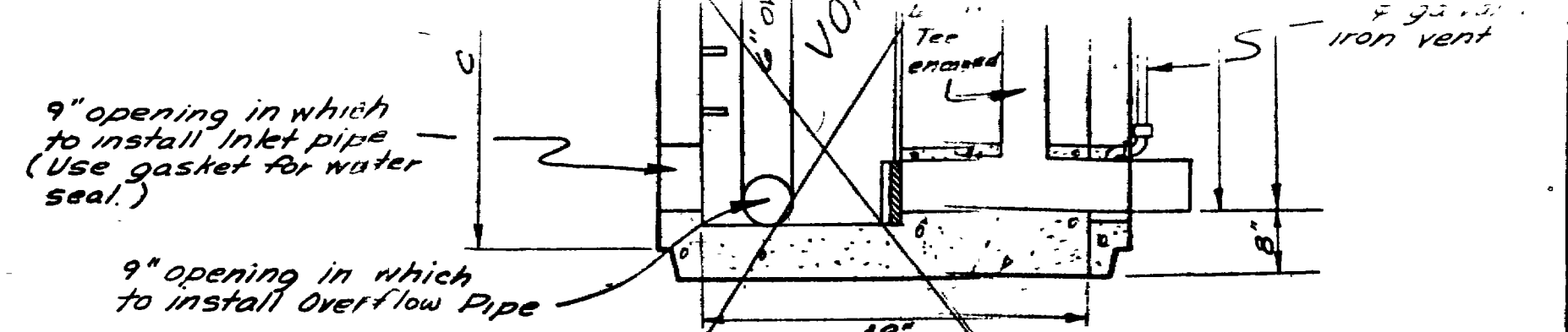
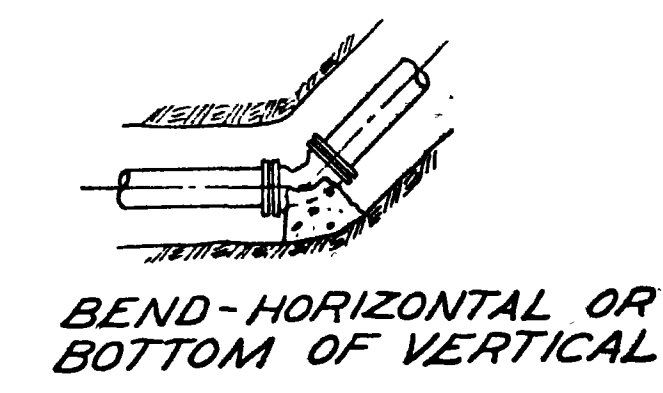
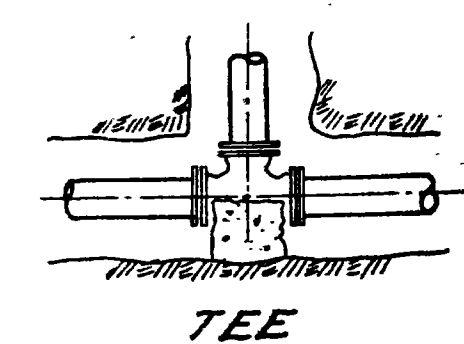
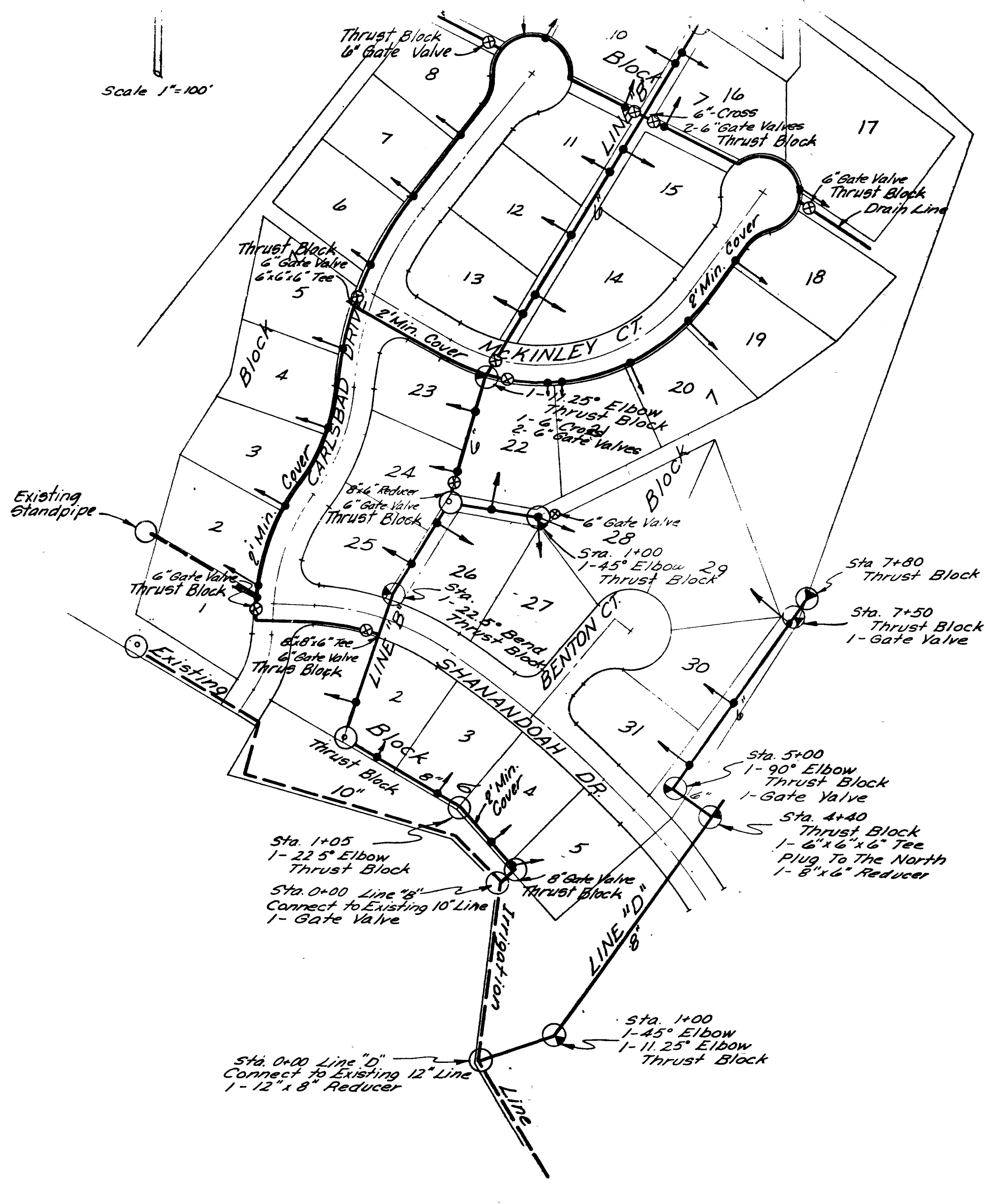


*James T. Patty Jr.*  
JAMES T. PATTY, JR.  
REGISTERED LAND SURVEYOR  
COLORADO REG. NO. 9960

Recorded 7-21-72  
MONUMENT Filing  
Nelson, Hanning, Part  
Grand Junction, Colorado



Scale 1"=100'



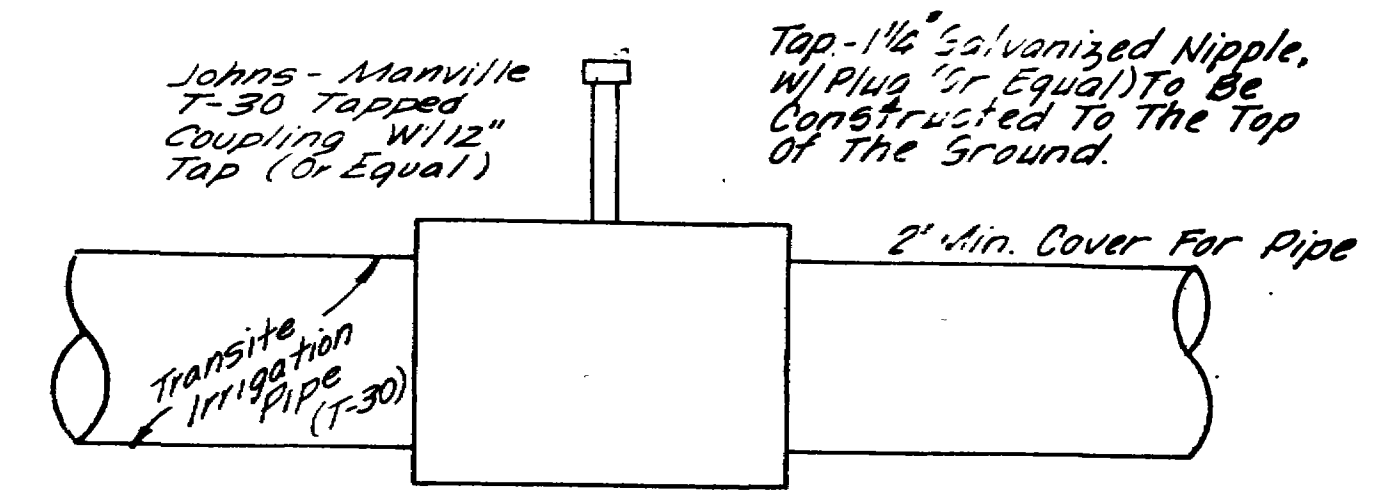
Stand Pipe No.	A	B	C	D	INLET ELEV.	INV. ELEV.	OVER FLOW
1	6.0'	7.5'	3.5'	5.5'	4622.50	4615.50	YES
2	2.52'	3.52'	7.5'		4621.50	4618.98	NO
3	7.0'	8.5'	7.5'	4.5'	4619.64	4611.64	YES

**48" DIA. PRECAST STANDPIPE CONTROL STRUCTURE**  
Scale 1"=20'

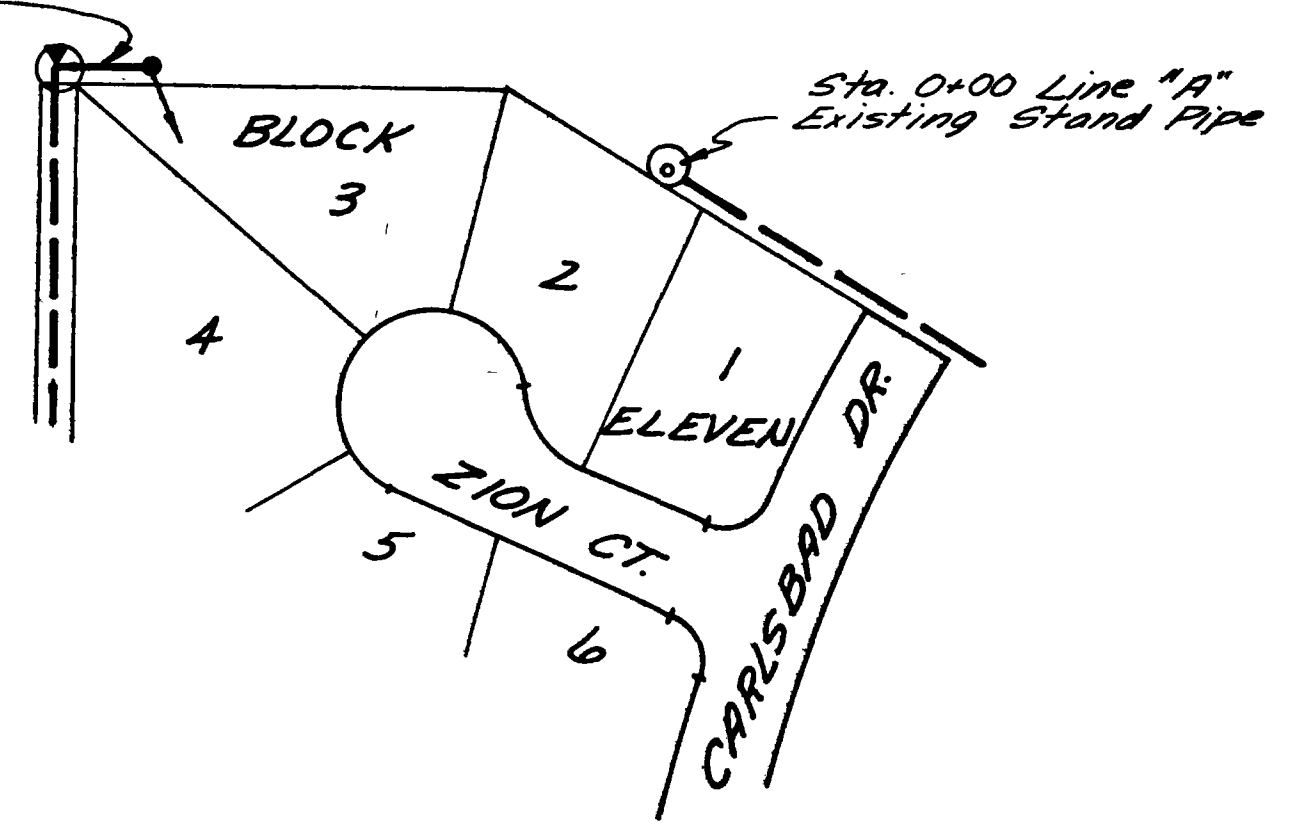
**NOTES FOR DETAILS**

- At dead ends, wrap fittings with tar paper, felt, or heavy kraft paper to provide bond break between concrete and fitting.
- All thrust blocking shall be cast-in-place concrete having a minimum yield strength of 2000 psi.
- Thrust blocking shall be cast against undisturbed earth. Forms shall be used as reqd. to obtain adequate bearing area and to confine the concrete. Thrust blocking shall bear on the fitting or end cap only and should not be allowed to spill over the joint or against the pipe.

**THRUST BLOCK DETAILS**  
No Scale



Construct 50 L.F. of 4" pipe to serve Lot 3, Block 11, Filing 1 of Monument Village. Part of this contract.



1	3.15.10-475	R.L.A.	Thrust Blocks Added & Voided Standpipe Site

DATE	APRIL 1975
SCALE	AS SHOWN
DESIGNER	R.L.A.
PROJECT ENGR	R.L.A.
CHECK ENGR	J.T.P.

DEPT. HEAD	
CONST. REP.	

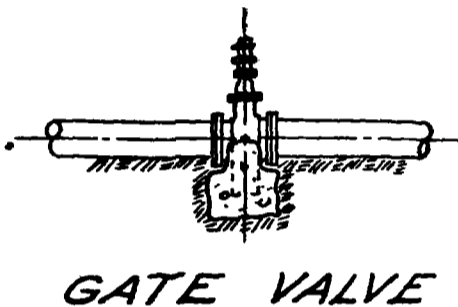
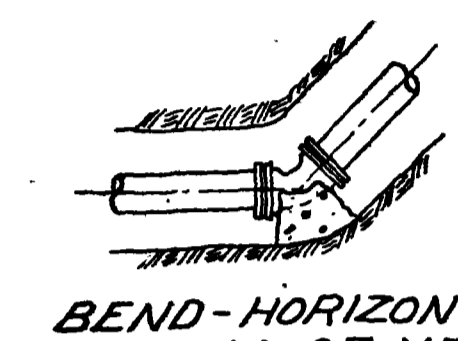
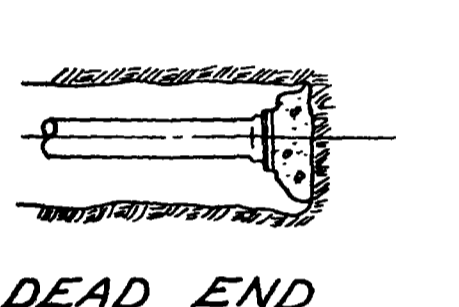
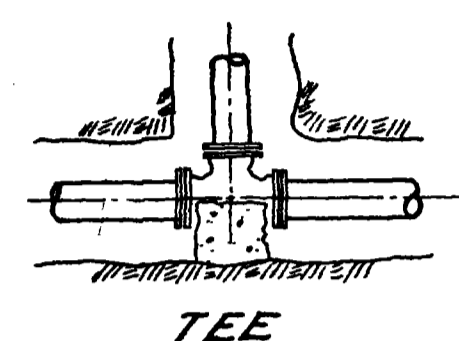
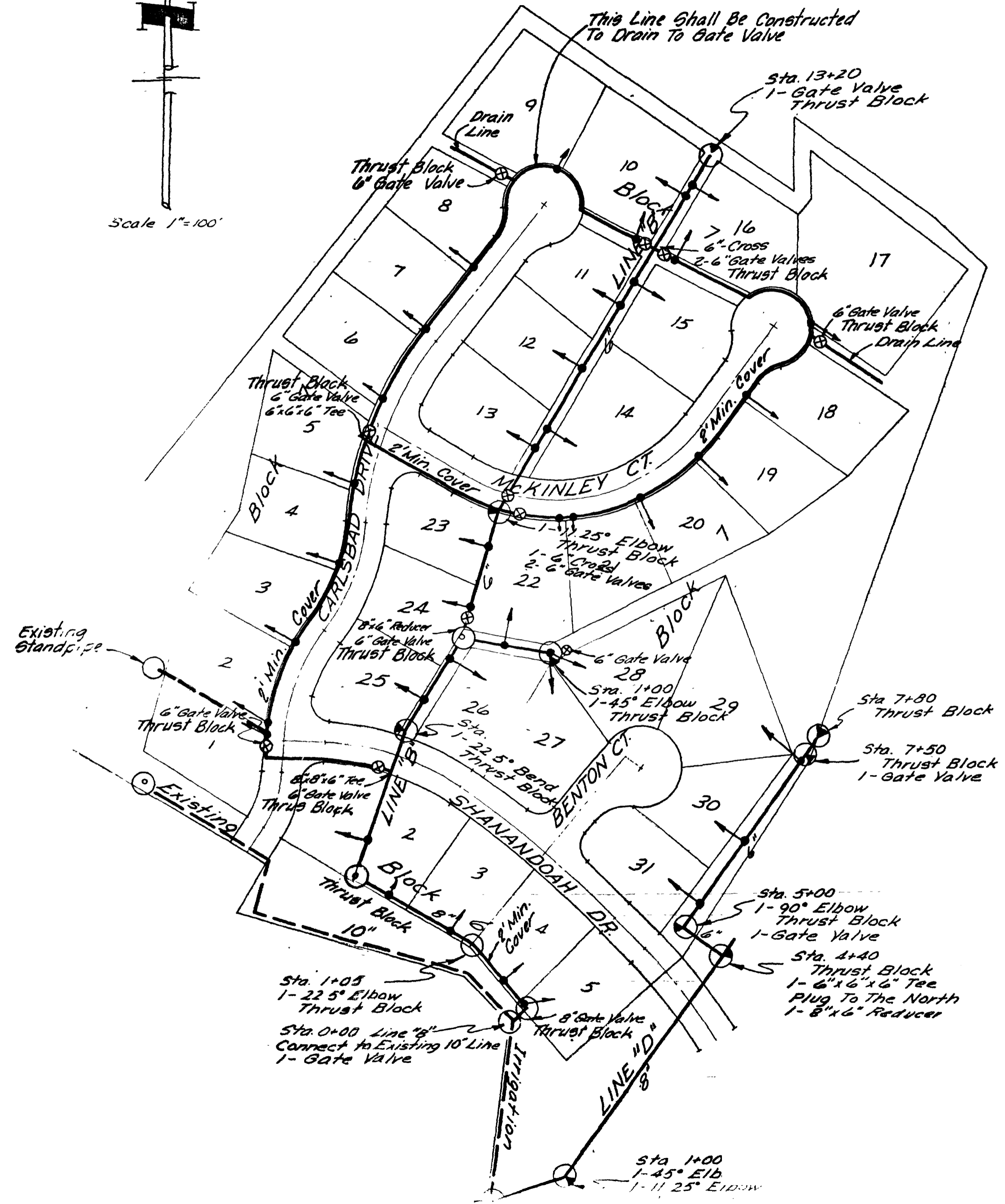
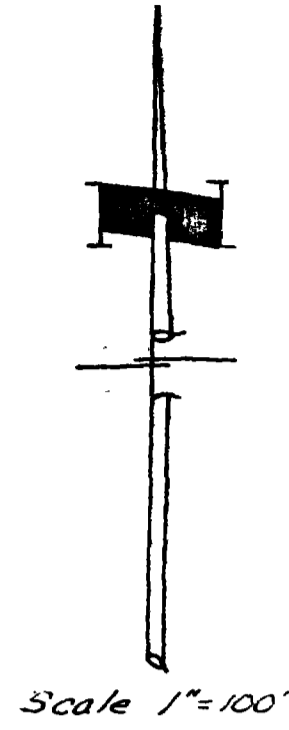


**NELSON - HALEY - PATTERSON AND QUIRK**  
ENGINEERING CONSULTANTS

**MONUMENT VILLAGE**  
FILING NO. 2  
MESA COUNTY, COLORADO

**IRRIGATION PLAN & MISCELLANEOUS DETAILS**

5	1
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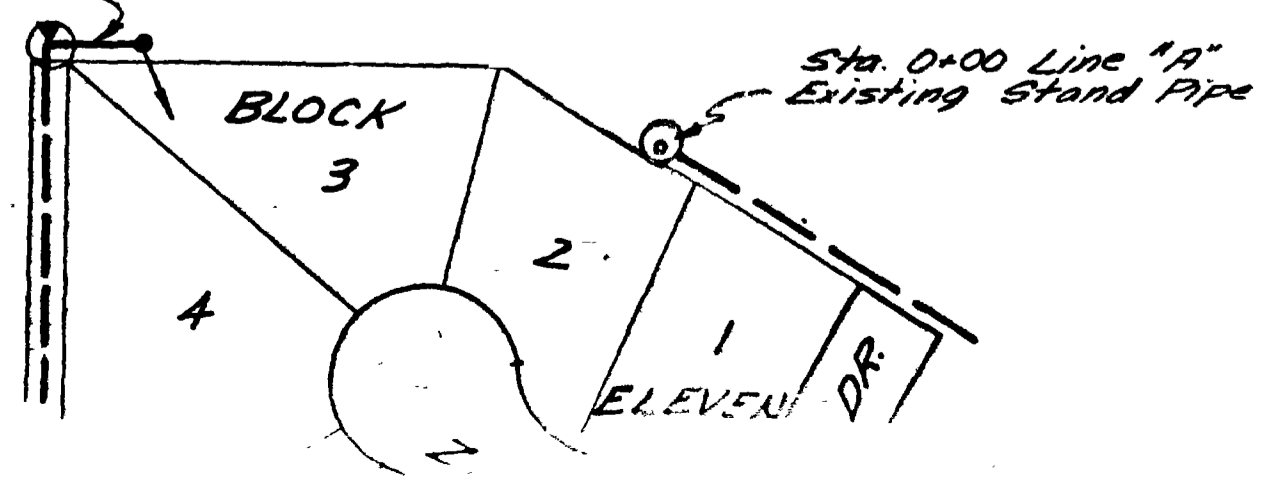
TEE  
DEAD END  
BEND-HORIZONTAL OR BOTTOM OF VERTICAL  
GATE VALVE

**NOTES FOR DETAILS**

1. At dead ends, wrap fittings with tar paper, felt, or heavy kraft paper to provide bond break between concrete and fitting.
2. All thrust blocking shall be cast-in-place concrete having a minimum yield strength of 2000 psi.
3. Thrust blocking shall be cast against undisturbed earth. Forms shall be used as reqd. to obtain adequate bearing area and to confine the concrete. Thrust blocking shall bear on the fitting or end cap only and should not be allowed to spill over the joint or against the pipe.

**THRUST BLOCK DETAILS**  
No Scale

Construct 50 L.F. of 4" pipe to serve Lot 3, Block 11, Filing 1 of Monument Village. Part of this Contract.

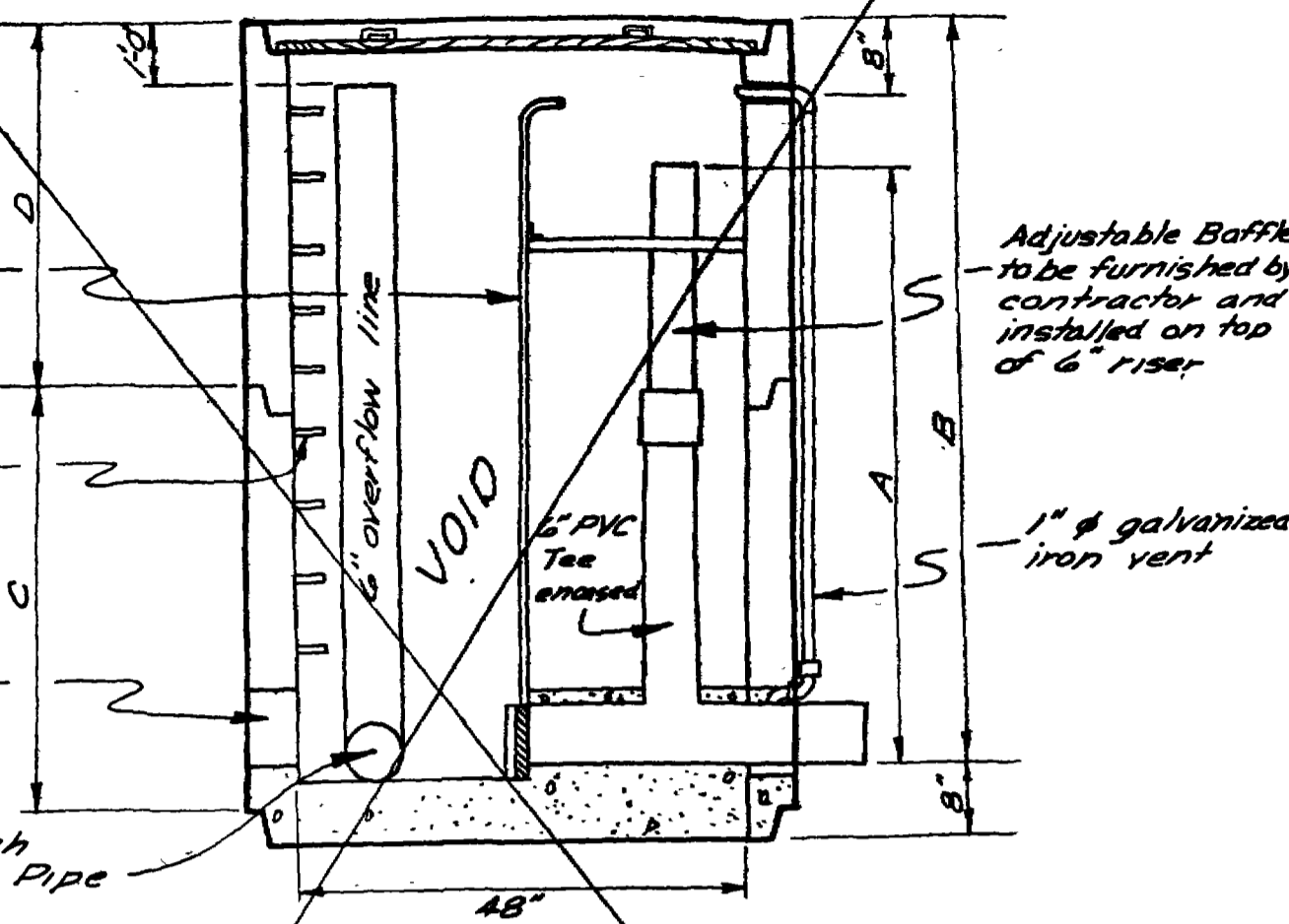


Waterman C-8 with handle extension and 6" dia. slide gate to be installed in field by attaching by anchor bolts pre-installed

Alum. Steps @ 15" cc

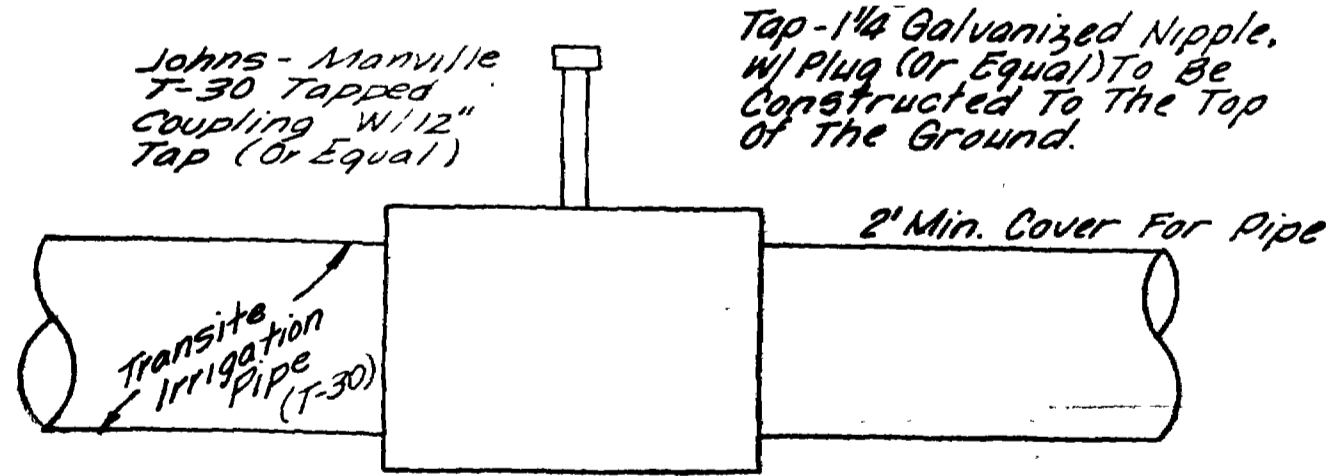
9" opening in which to install Inlet pipe (Use gasket for water seal.)

9" opening in which to install Overflow Pipe

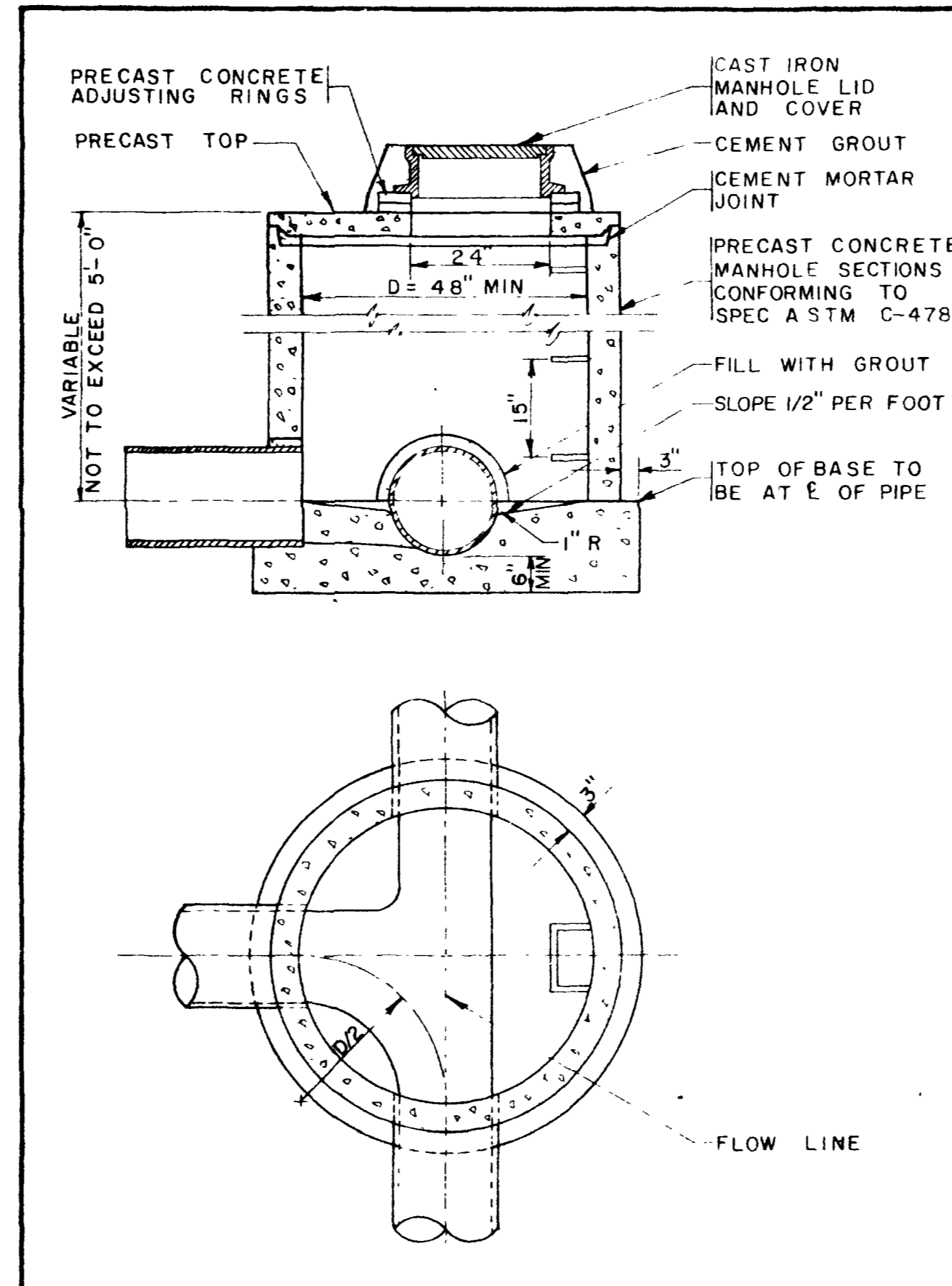
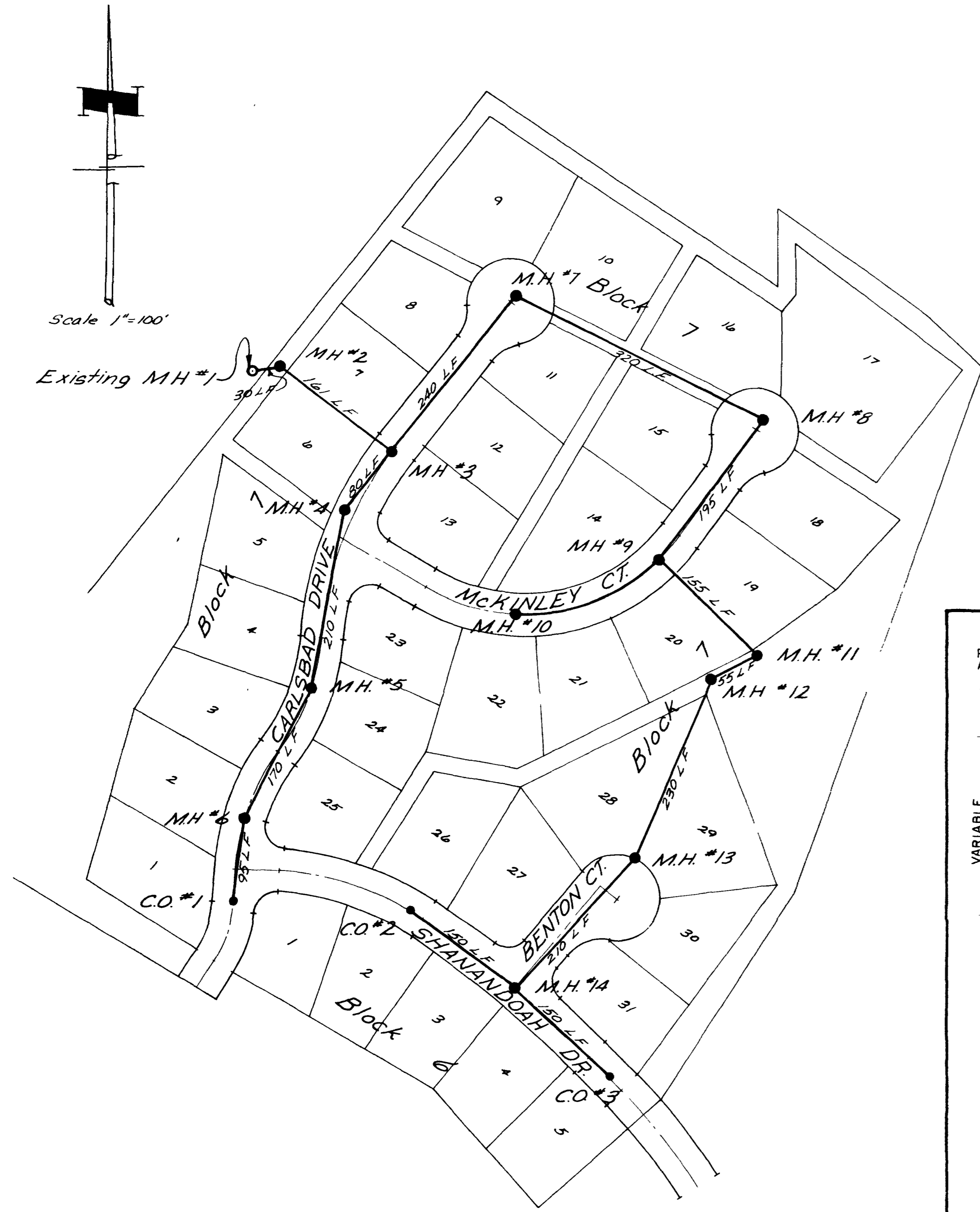


Stand Pipe No.	A	B	C	D	INLET ELEV.	INV. ELEV.	OVER-FLOW
1	6.0'	7.5'	3.5'	5.5'	4622.50	4615.50	YES
2	2.52'	3.52'	7.5'		4621.50	4618.98	NO
3	7.0'	8.5'	7.5'	4.5'	4618.64	4611.64	YES

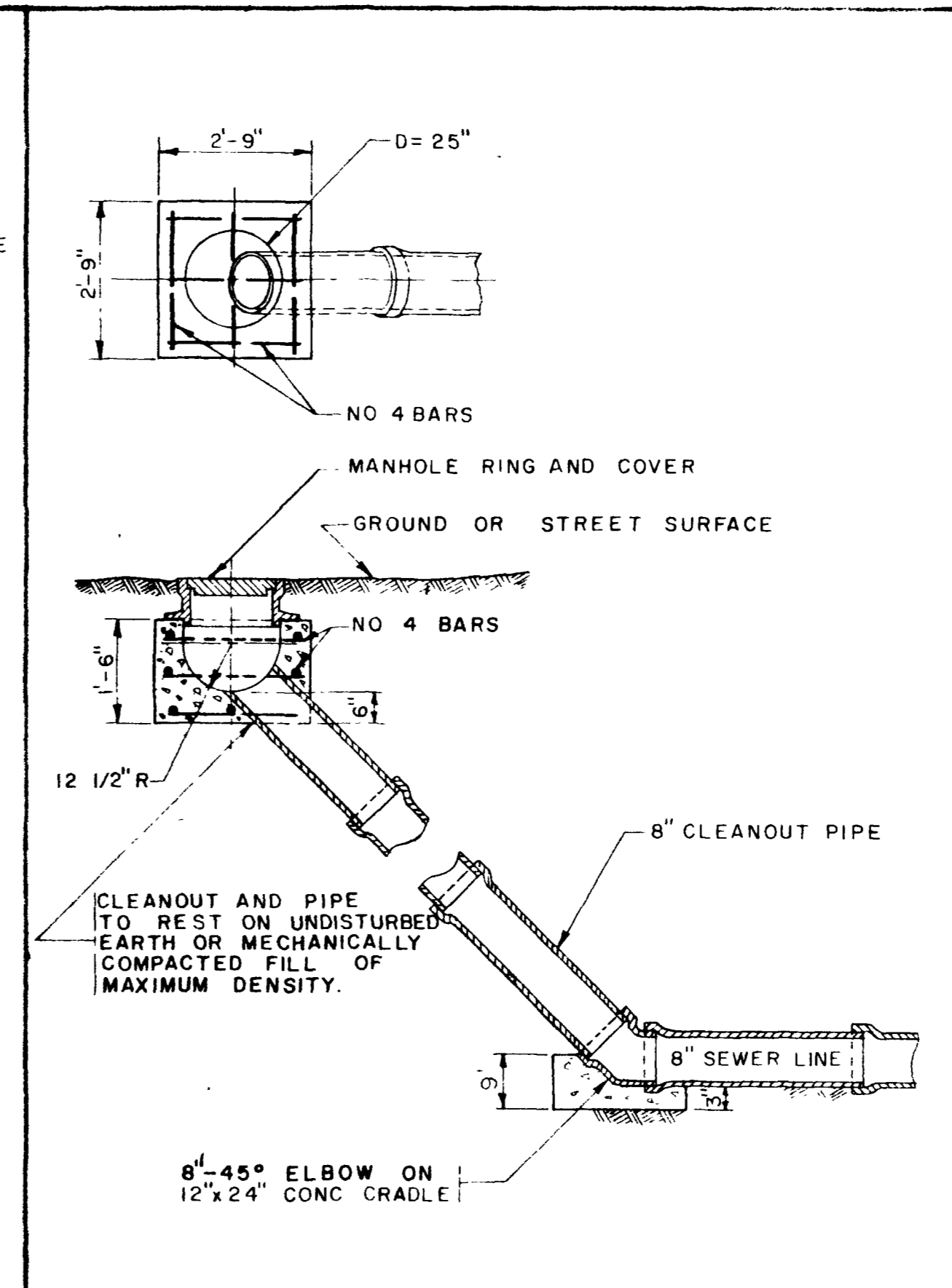
**48" DIA. PRECAST STANDPIPE CONTROL STRUCTURE**  
Scale 1"=20'



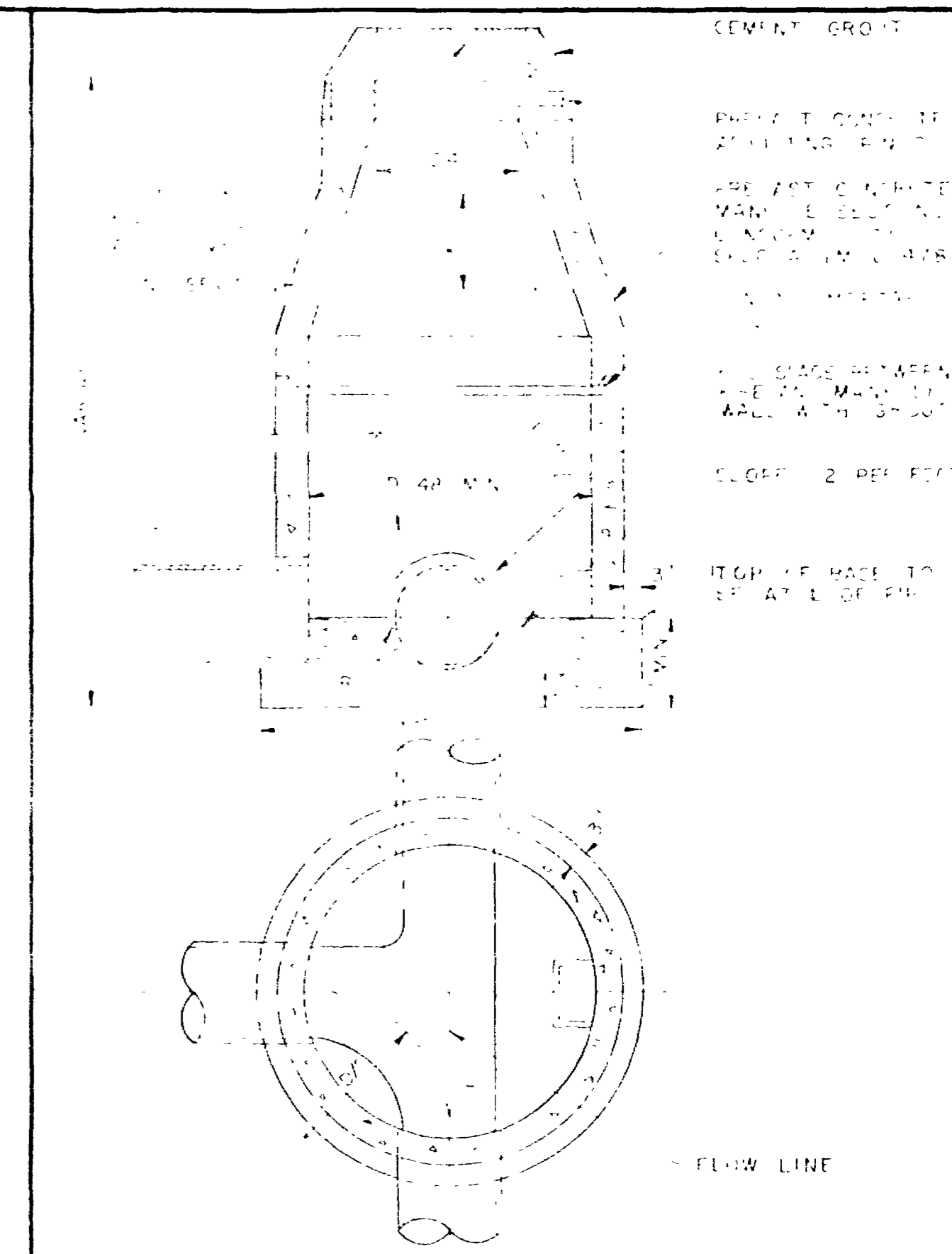
**TYPICAL SERVICE TAP DETAIL**  
No Scale



**CONSTRUCTION STANDARDS**  
**SHALLOW MANHOLE**  
 STANDARD NO. 210



**CONSTRUCTION STANDARDS**  
**SANITARY SEWER CLEANOUT**  
 STANDARD NO. 215



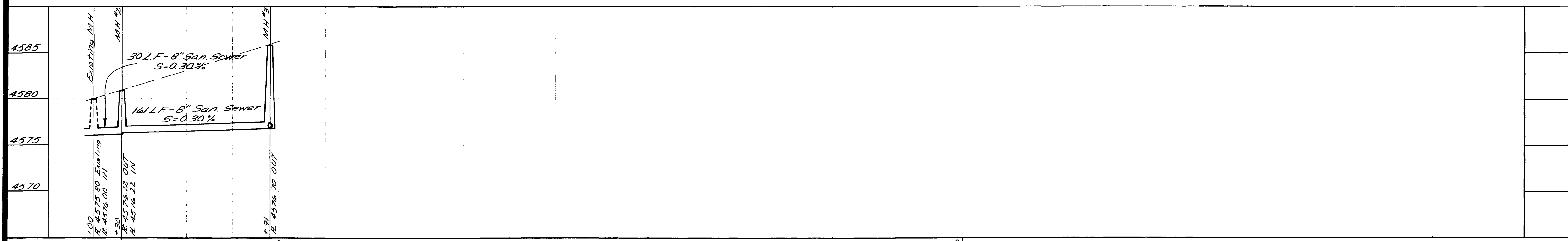
**CONSTRUCTION STANDARDS**  
**STANDARD MANHOLE**  
 STANDARD NO. 201

NO.	BY	DATE	APPROVED	REVISIONS

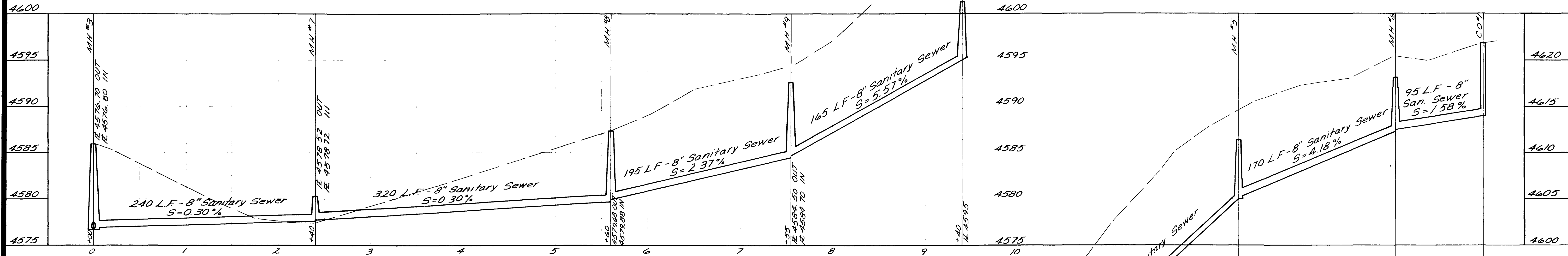
DATE	DRAFTSMAN	DEPT. HEAD
APRIL 1975	PJS	
SCALE	PROJECT ENGR	CONST. REP.
Horz 1/2" = 50'	RLA	
Vert 1/2" = 30'	PROJECT MGR	JTP

**ENGINEERING**  
**NELSON - HALEY - PATTERSON AND QUIRK**  
 ENGINEERING CONSULTANTS

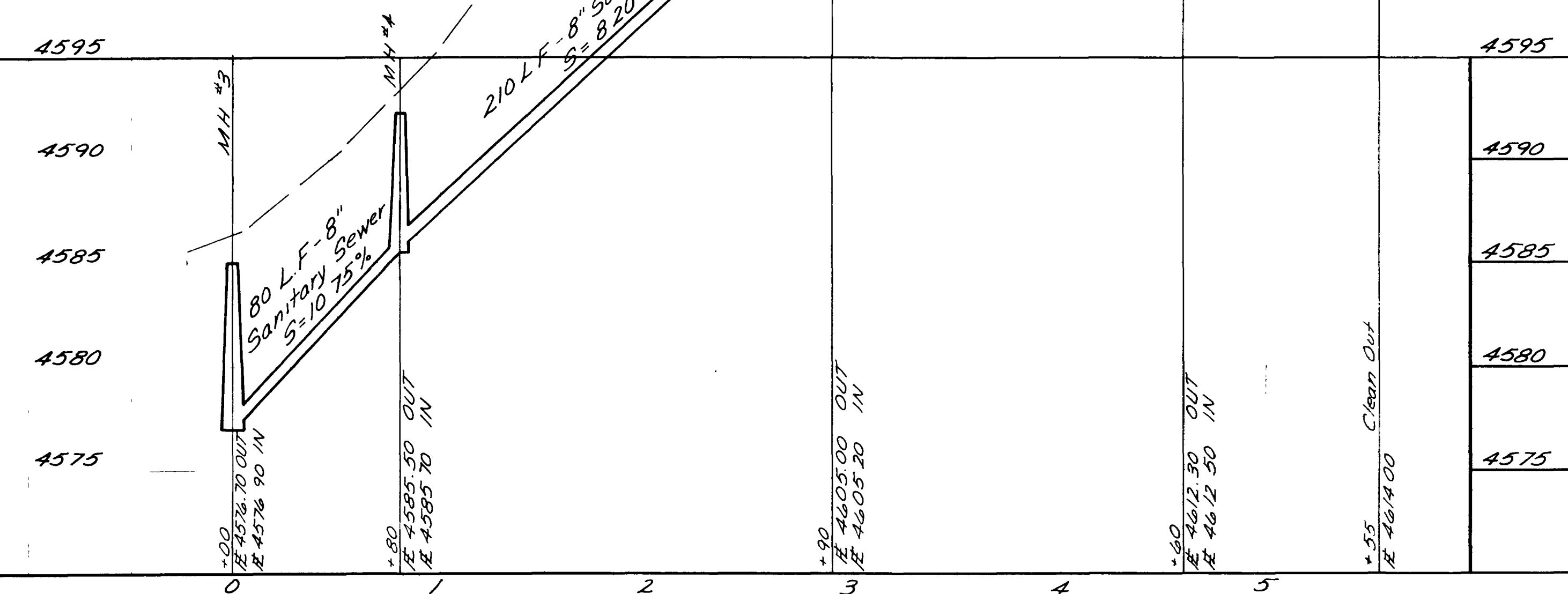
**MONUMENT VILLAGE**  
 FILING NO. 2  
 MESA COUNTY, COLORADO



LINE "A"



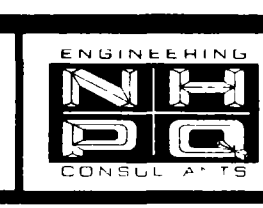
LINE "B"



LINE "C"

NO.	BY	DATE	APPROVED	REVISIONS

DATE: APRIL 1975  
 DRAFTSMAN: PLS  
 PROJECT ENGR: TH  
 PROJECT MGR: JTP  
 DEPT. HEAD: \_\_\_\_\_  
 CONST. REP: \_\_\_\_\_

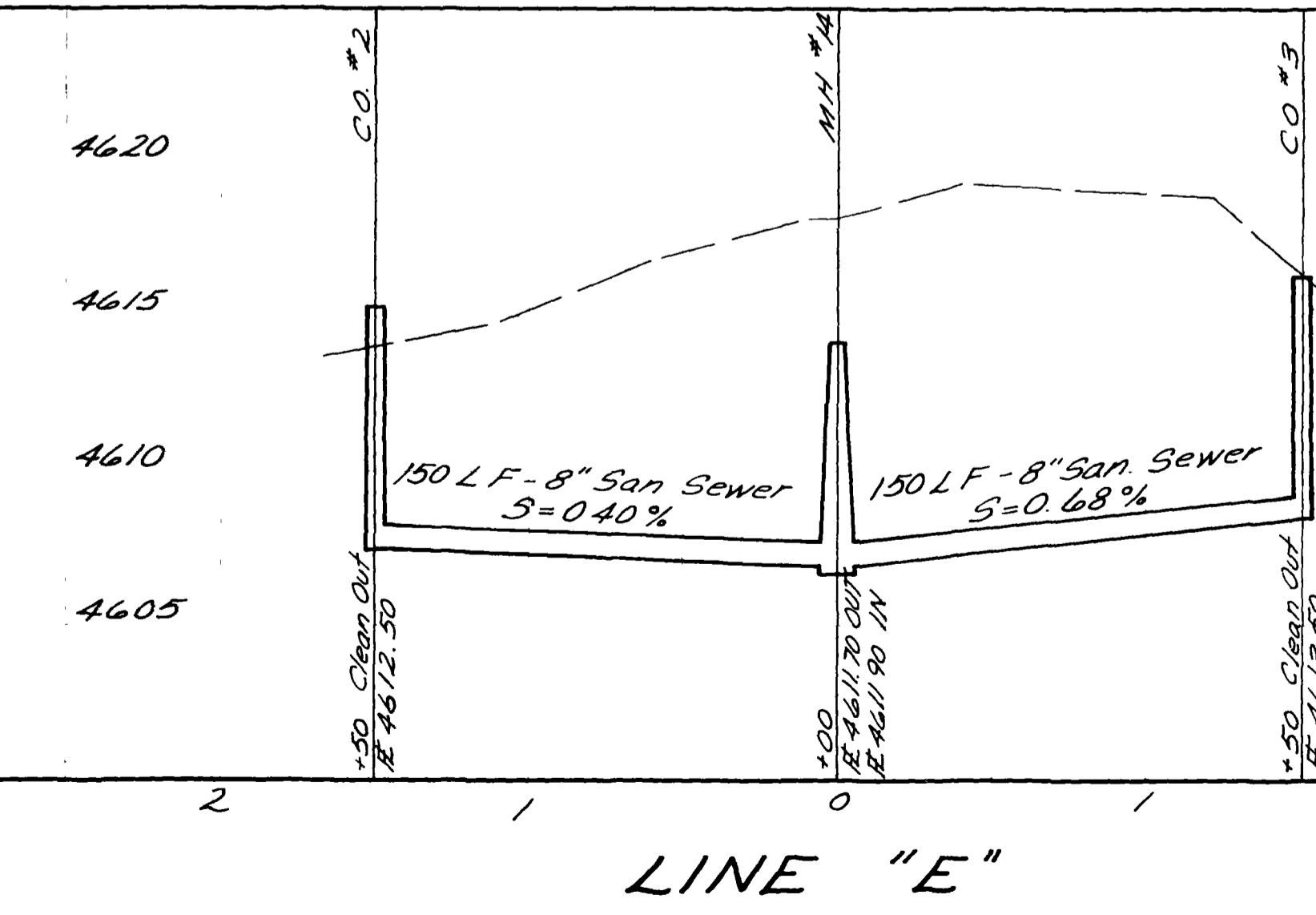
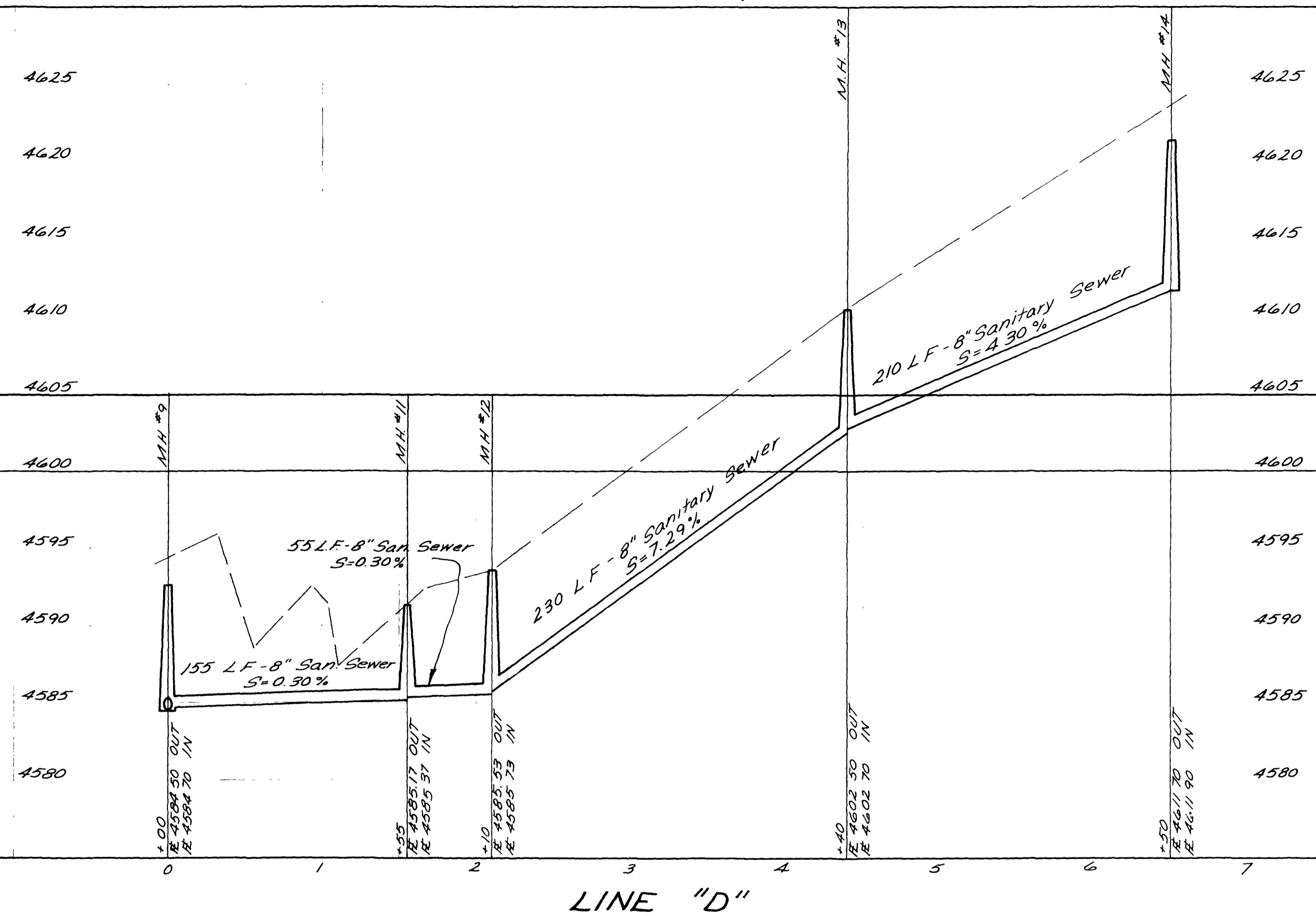


NELSON - HALEY - PATTERSON AND QUIRK  
 ENGINEERING CONSULTANTS

MONUMENT VILLAGE  
 FILING NO. 2  
 MESA COUNTY, COLORADO

SANITARY SEWER PROFILE

3	SHEET
2	SHEETS



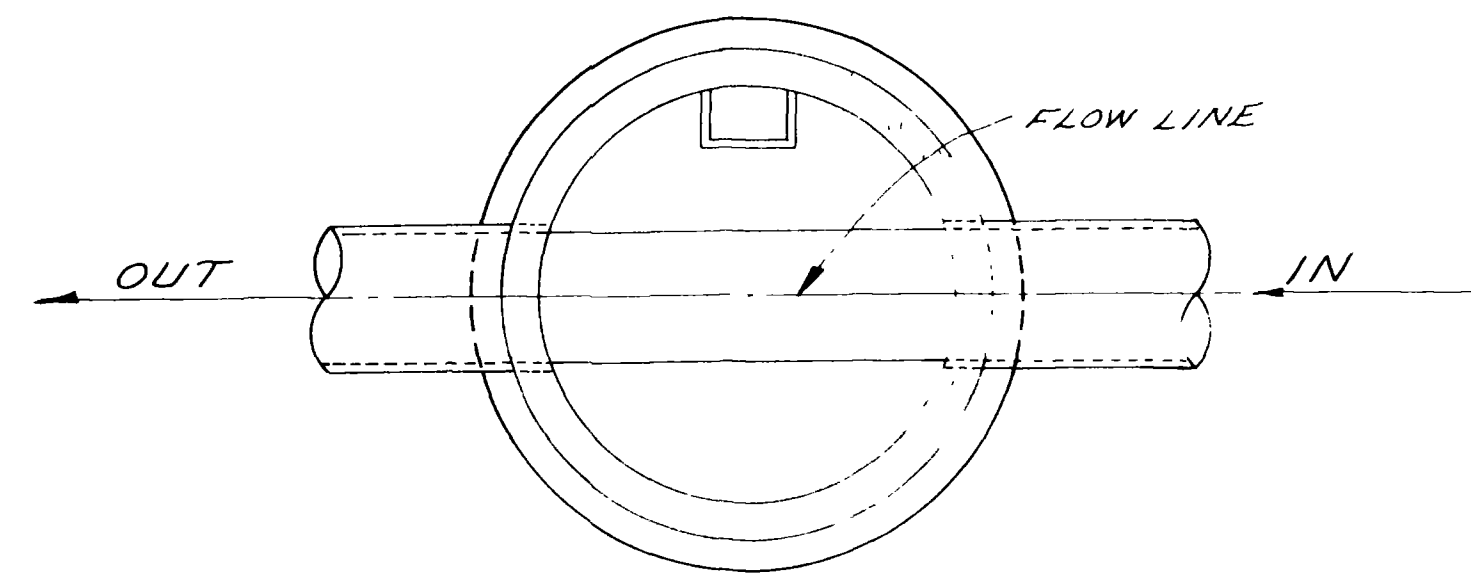
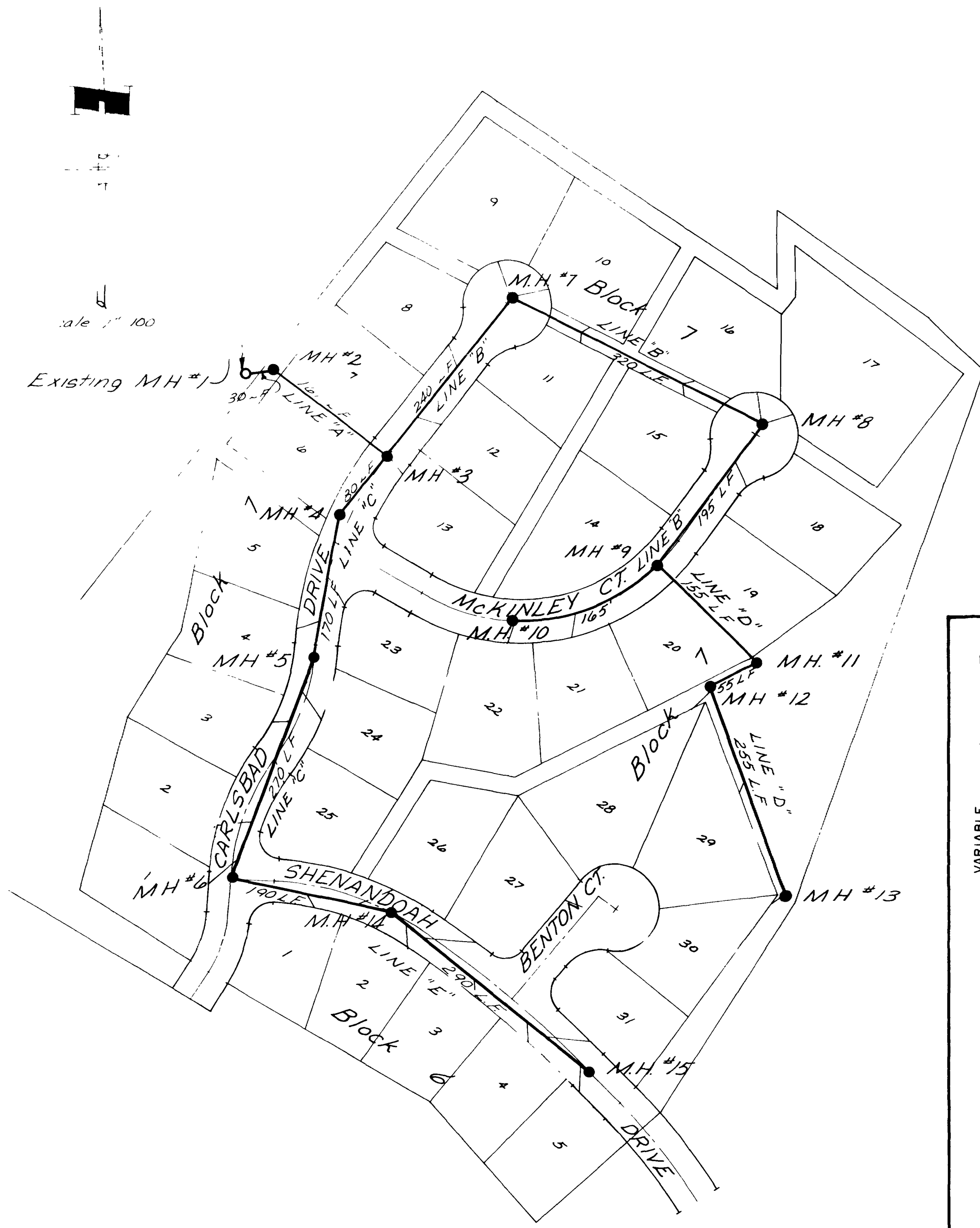
NO.	BY	DATE	APPROVED	REVISIONS

DATE: APRIL 1975  
 DRAFTSMAN: PJS  
 PROJECT ENGR: JH  
 PROJECT MGR: JTP  
 DEPT. HEAD: \_\_\_\_\_  
 CONST. REP: \_\_\_\_\_

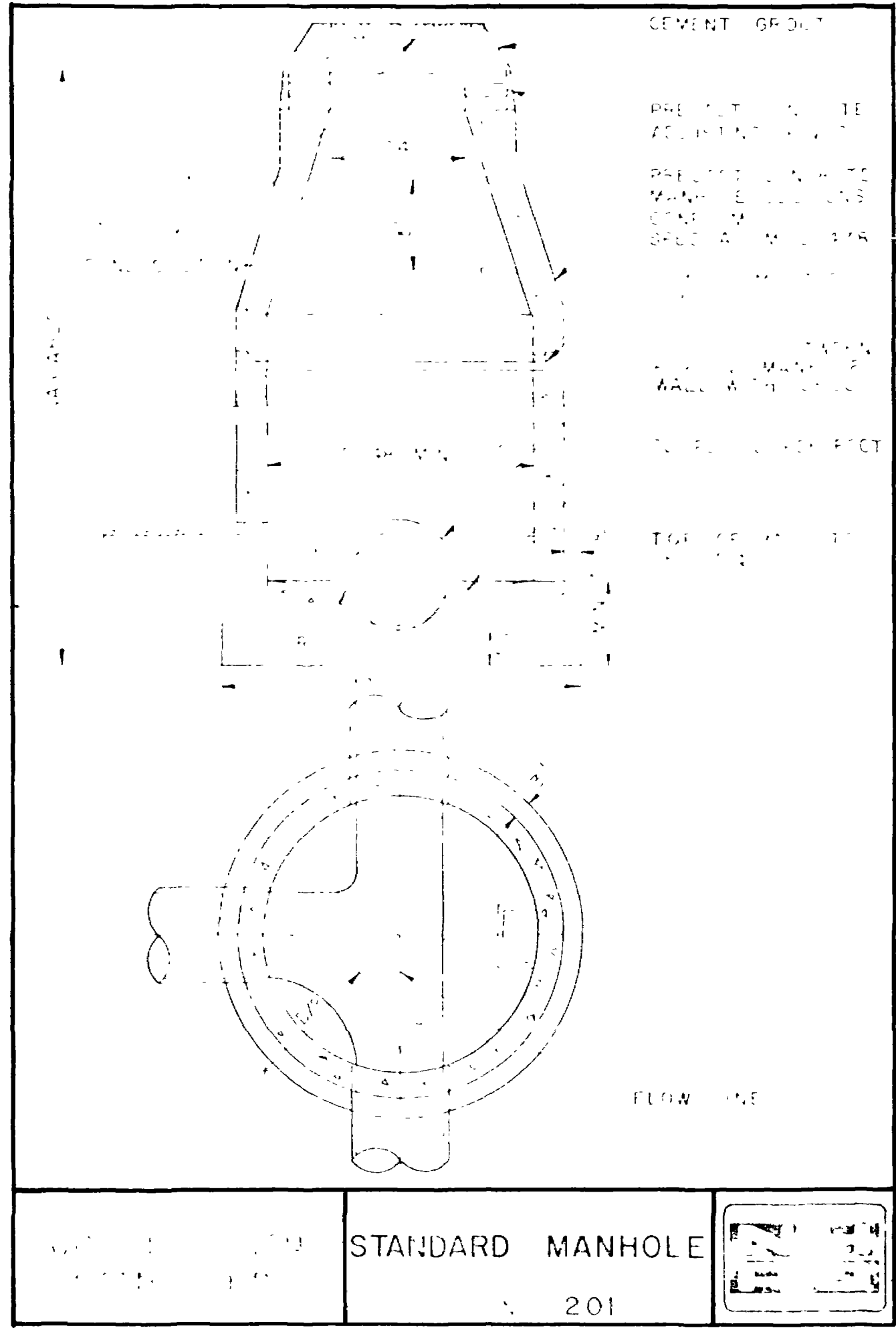
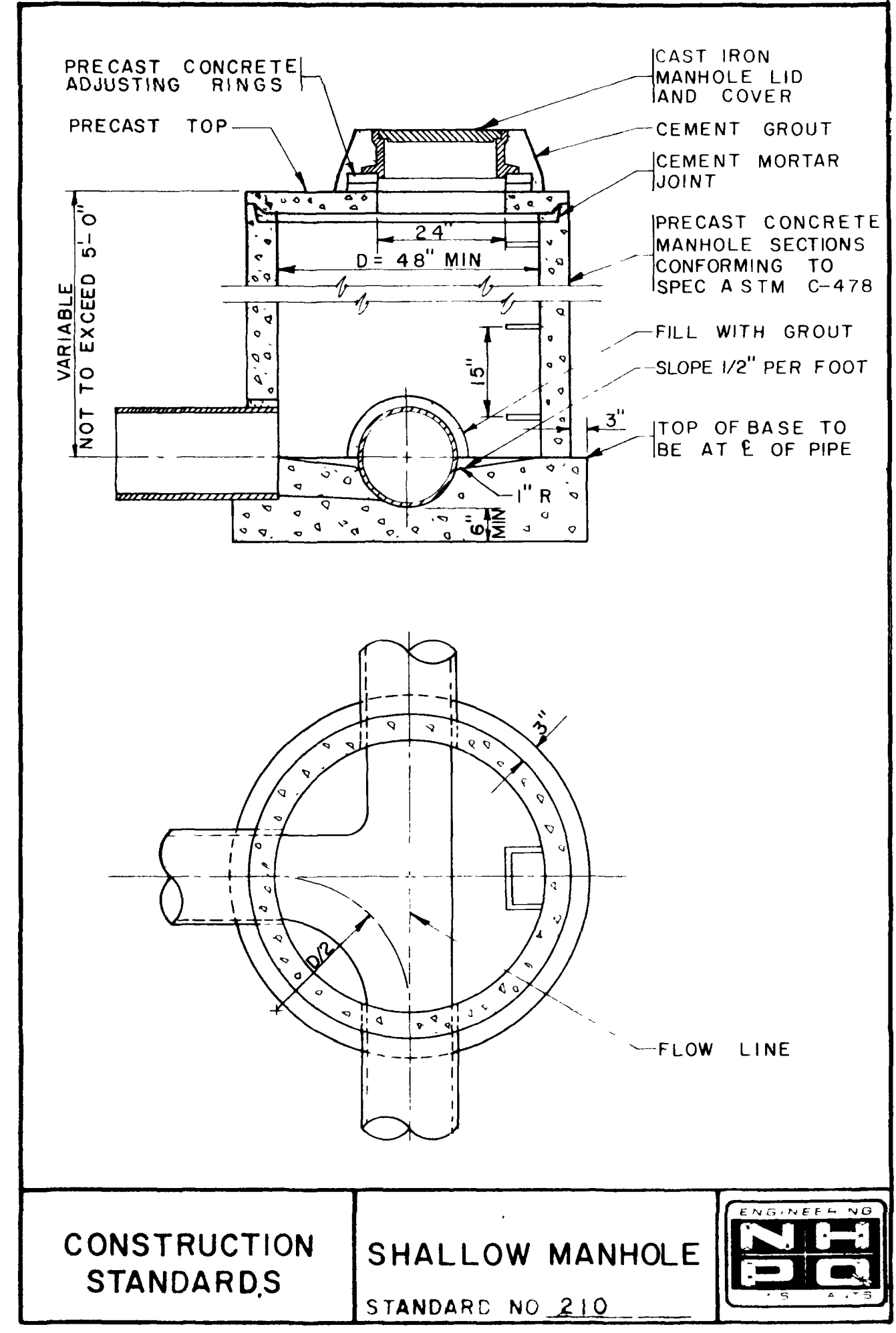
ENGINEERING  
**NH**  
 CONSULTANTS  
 NELSON - HALEY - PATTERSON AND QUIRK  
 ENGINEERING CONSULTANTS

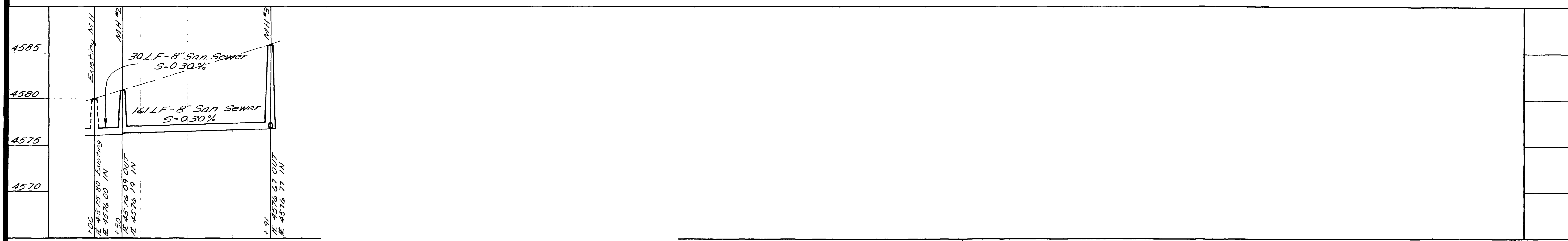
MONUMENT VILLAGE  
 FILING NO. 2  
 MESA COUNTY, COLORADO

SANITARY SEWER PROFILES  
 SHEET 3  
 SHEETS 3

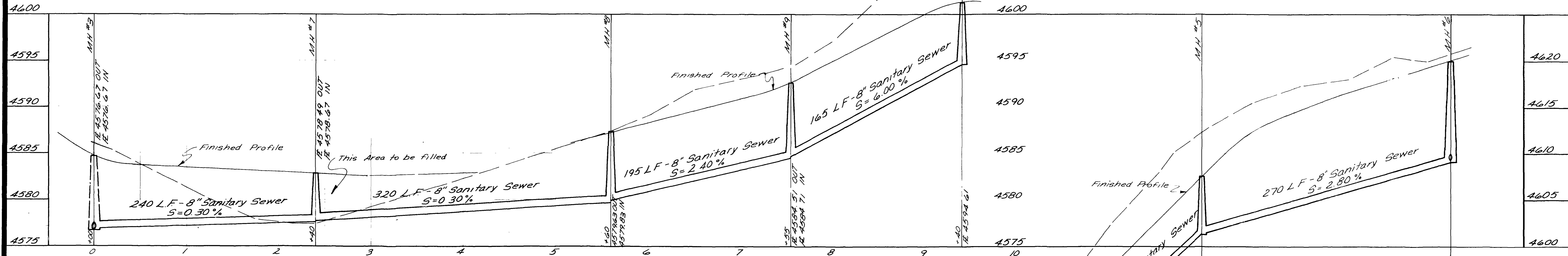


MANHOLE INVERT ELEVATIONS

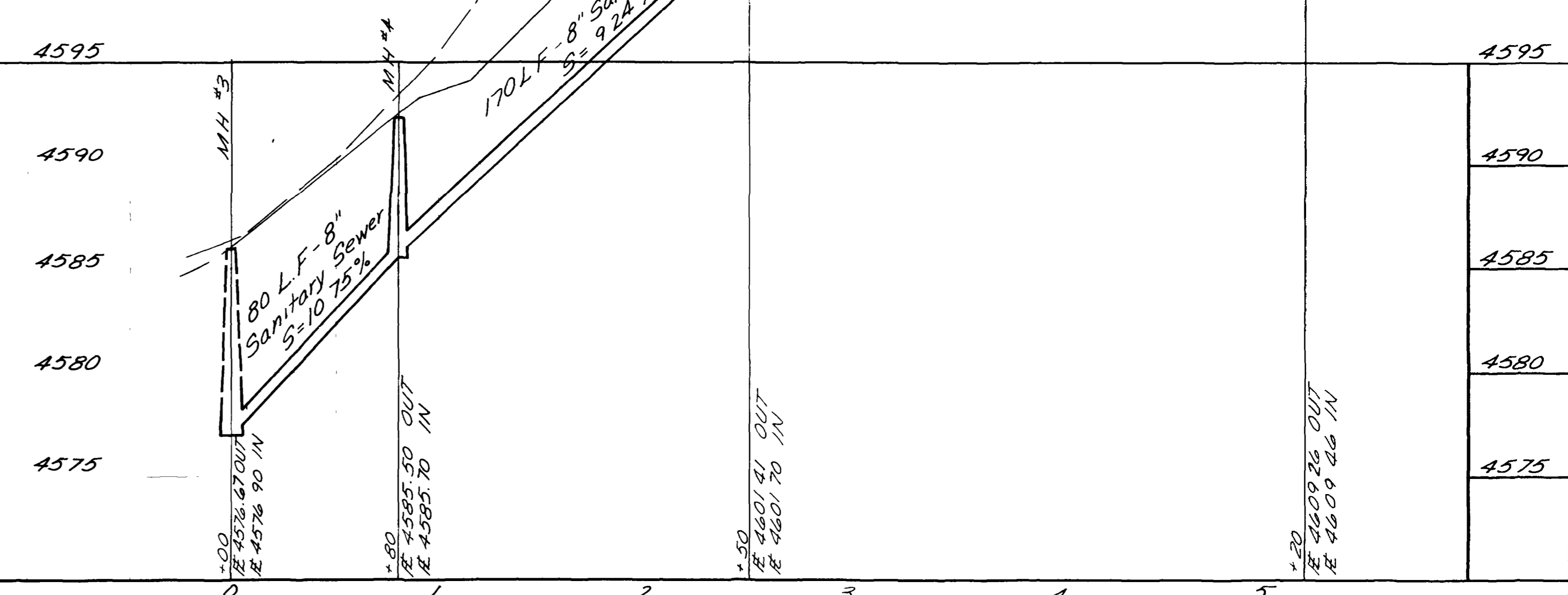




LINE "A"



LINE "B"



LINE "C"

NO	BY	DATE	APPROVED	REVISIONS

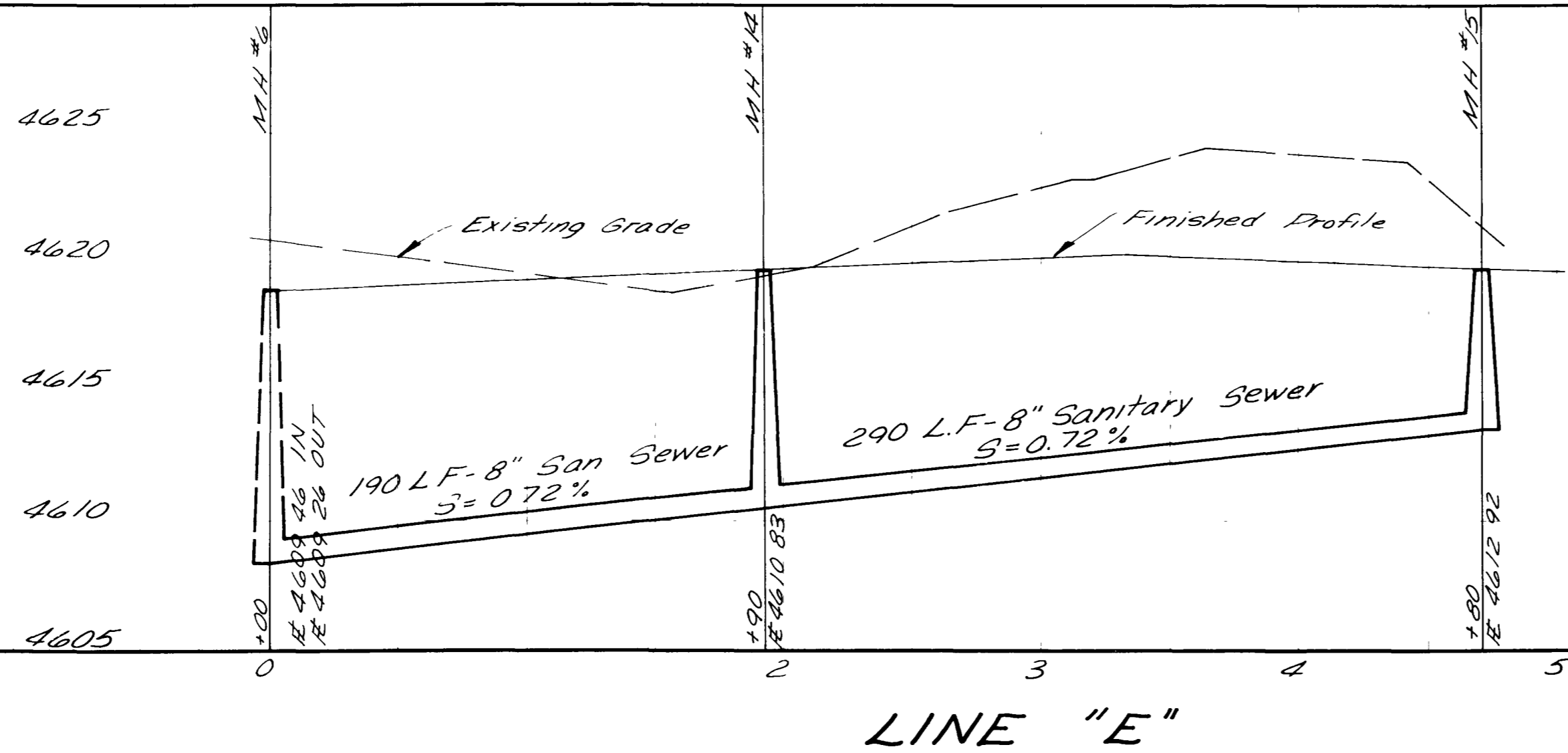
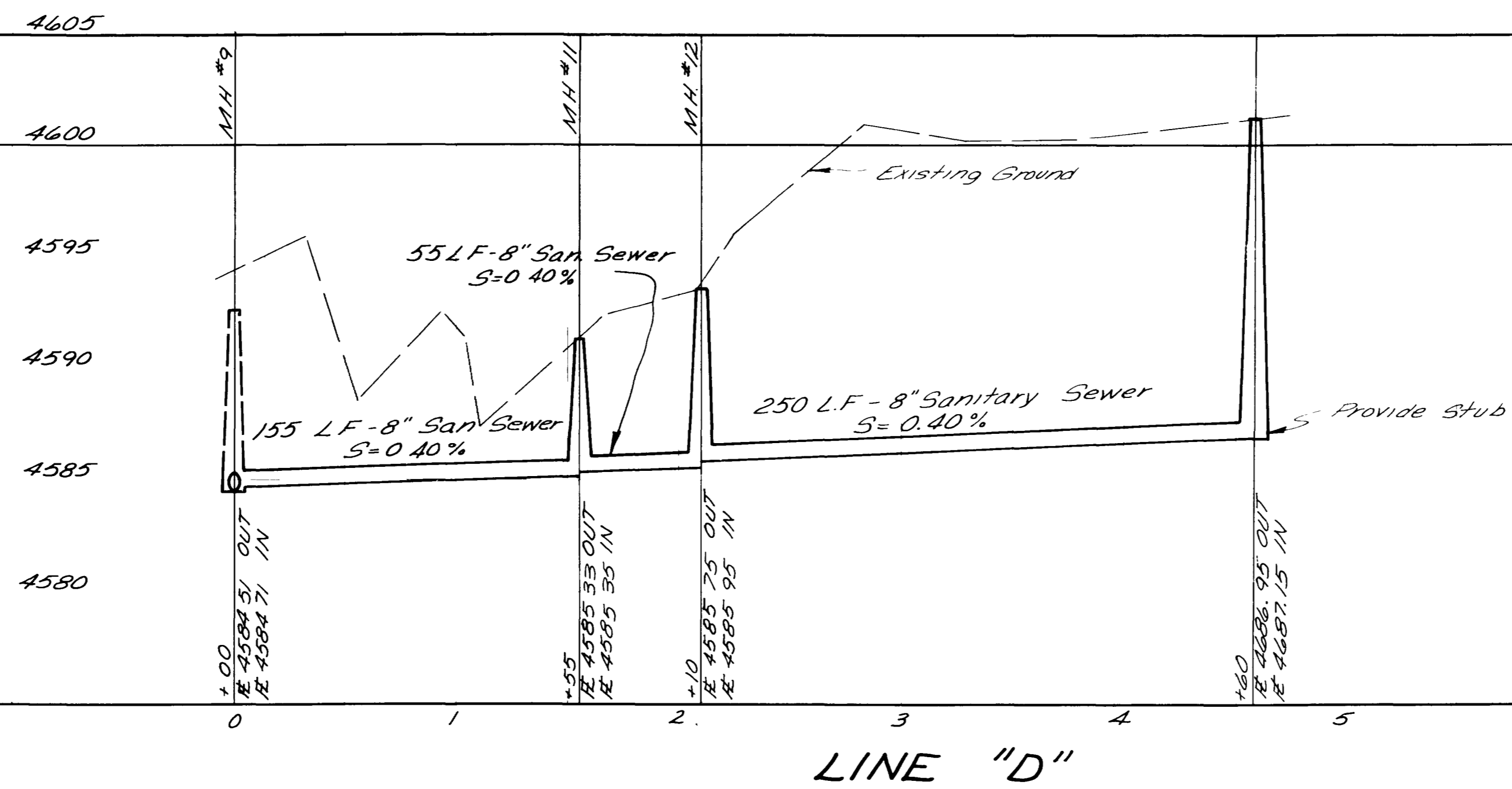
DATE: APRIL 1975  
 DRAFTSMAN: PJS  
 PROJECT ENGR: TH  
 PROJECT MGR: LTP  
 DEPT. HEAD: \_\_\_\_\_  
 CONST. REP: \_\_\_\_\_



NELSON - HALEY - PATTERSON AND QUIRK  
 ENGINEERING CONSULTANTS

MONUMENT VILLAGE  
 FILING NO. 2  
 MESA COUNTY, COLORADO

SANITARY SEWER PROFILES  
 SHEETS 3 OF 2



NO.	BY	DATE	APPROVED	REVISIONS

DATE  
APRIL 1975

SCALE  
Horz 1"=50'  
Vert 1"=5'

DRAFTSMAN PLS  
PROJECT ENGR JH  
PROJECT MGR JTP

DEPT HEAD  
CONST. REP

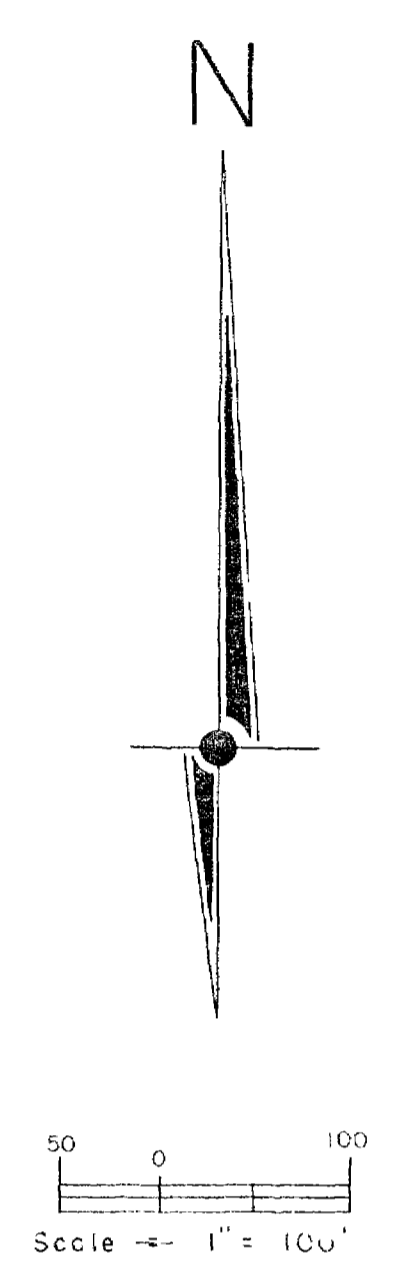


NELSON - HALEY - PATTERSON AND QUIRK  
ENGINEERING CONSULTANTS

MONUMENT VILLAGE  
FILING NO. 2  
MESA COUNTY, COLORADO

SANITARY SEWER PROFILES



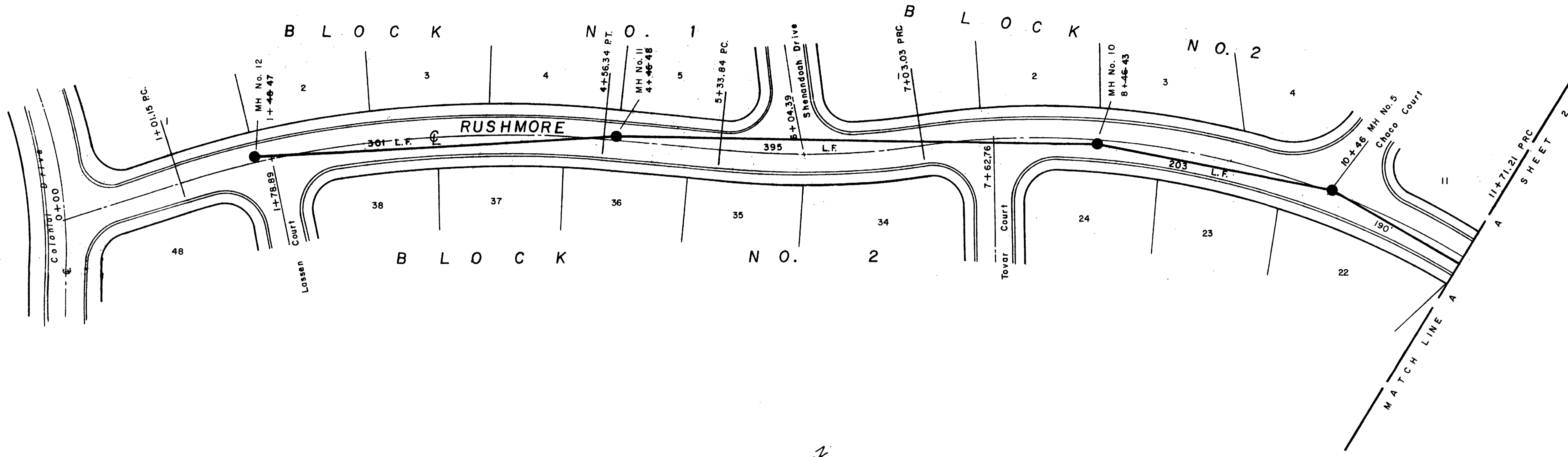


- NOTES:**
1. Manhole No 1 & No.7 have been deleted
  2. (36') Approximate distance from Property Pin, TYP
  3. (7.5') Approximate depth of pipe, TYP.
  4. All stubouts to be 4" pipe

11/22/76 AS-BUILT SEWER PLAN

	<b>ARMSTRONG ENGINEERING-SURVEYING &amp; CONCRETE &amp; SOILS TESTING</b>	
	SCALE: 1" = 100' DATE: 11/22/76 DRAWN BY: SA	MONUMENT VILLAGE PROJECT NO. 11/22/76 MASTER PLAN

**PLAN**  
 SURVEYED, PLOTTED, ALIGNED, CHECKED, BY, DATE  
 NOTE BOOK NO. OF WAY CHECKED



11/22/76 AS-BUILT SEWER PLANS

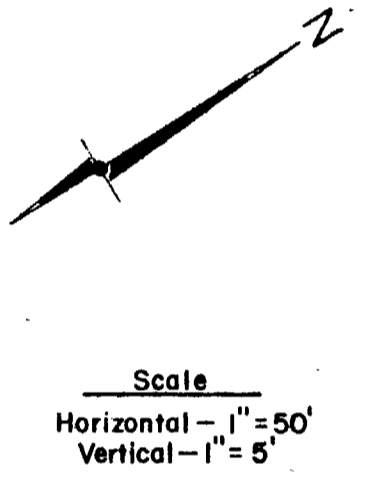
**ARMSTRONG ENGINEERS**  
 ENGINEERING - SURVEYING  
 CONCRETE & SOILS TESTING

As Shown  
 DATE: 7/14/76  
 DRAWN BY: S.A.D.  
 CHECKED BY: W.H.L.  
 DATE OF SURVEY:

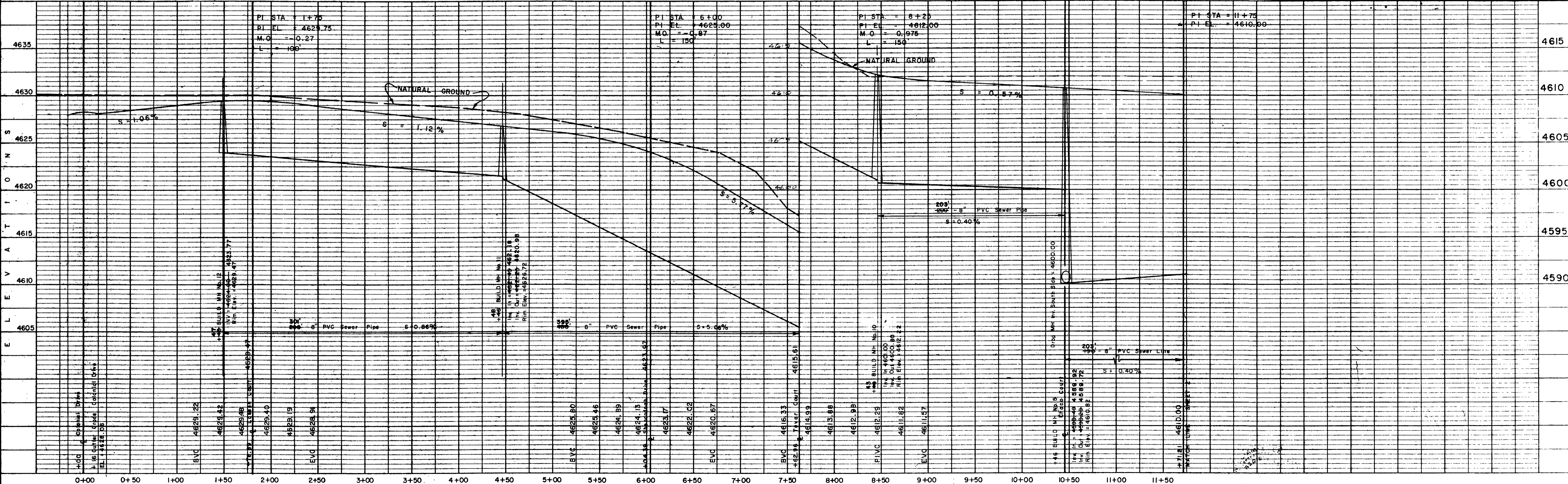
**MONUMENT VILLAGE SUBDIVISION**  
 FILING NO. 3  
 STREET PLAN & PROFILE

**SHEET 2 of 5** JOB NUMBER 76584

NOTE:  
 Expansion or Contraction joints to be in accordance with Section 13, Paragraph E, shown on page 8 Mesa County Road Specs.

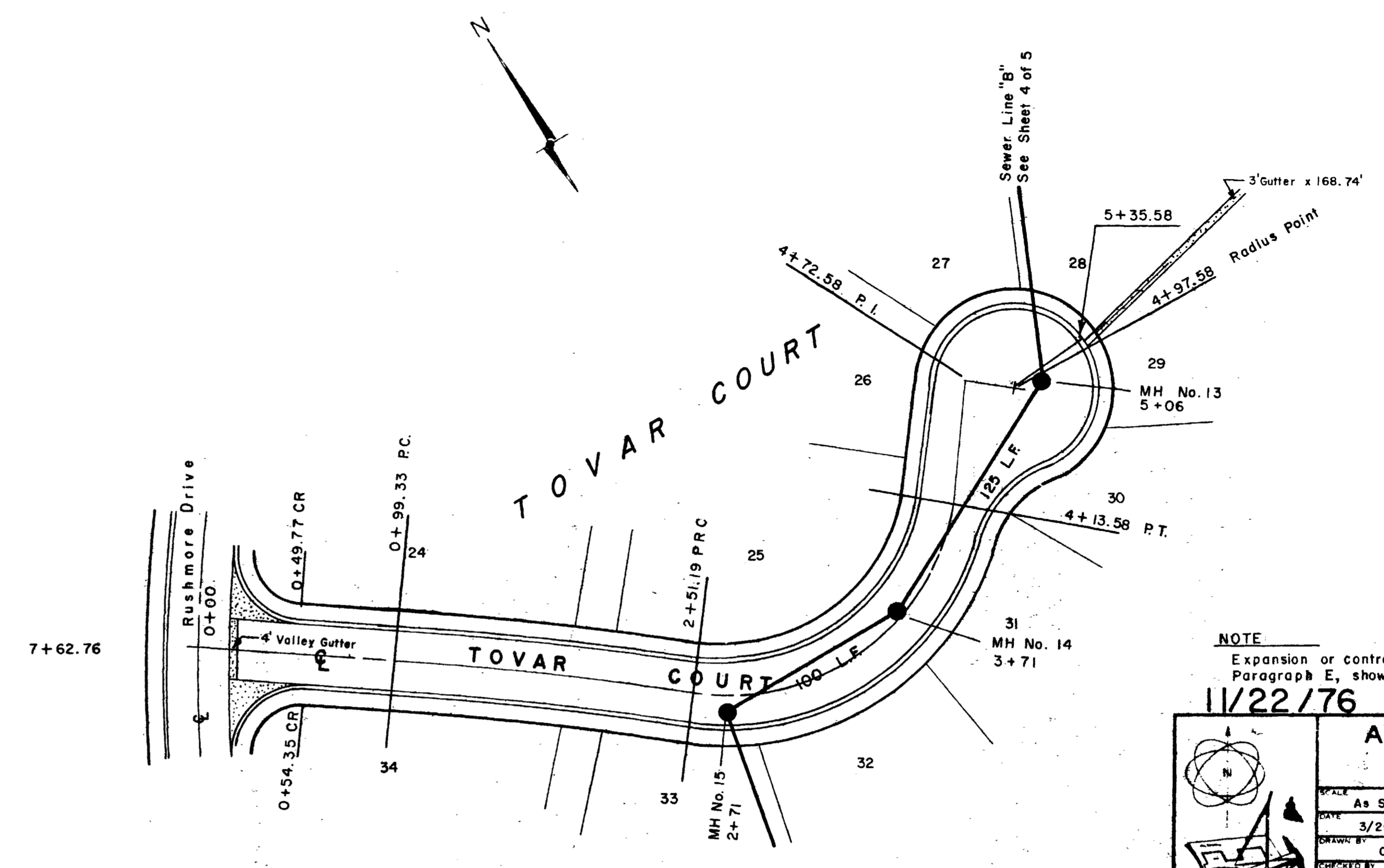
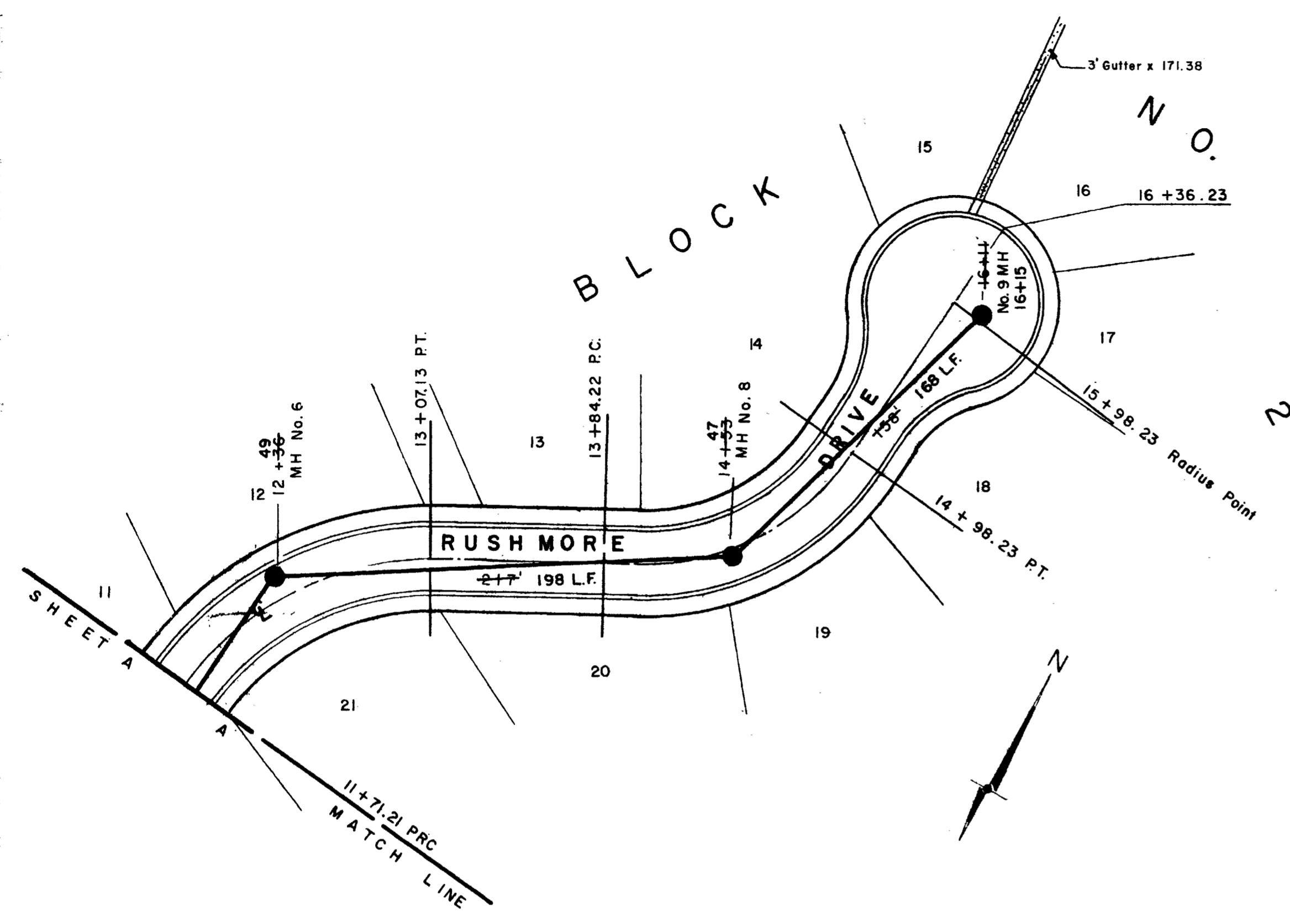


**PROFILE**  
 SURVEYED, PLOTTED, GRADES CHECKED, BY, DATE  
 NOTE BOOK NO. OF WAY CHECKED



PLAN  
 SURVEYED BY  
 DATE  
 NOTED BY  
 DATE  
 CHECKED BY  
 DATE  
 NO. OF SHEETS  
 NO. OF THIS SHEET

PROFILE  
 SURVEYED BY  
 DATE  
 NOTED BY  
 DATE  
 CHECKED BY  
 DATE  
 NO. OF SHEETS  
 NO. OF THIS SHEET



NOTE  
 Expansion or contraction joints to be in accordance with Section 13, Paragraph E, shown on page 8 Mesa County Road Specs.

11/22/76 AS-BUILT SEWER PLANS

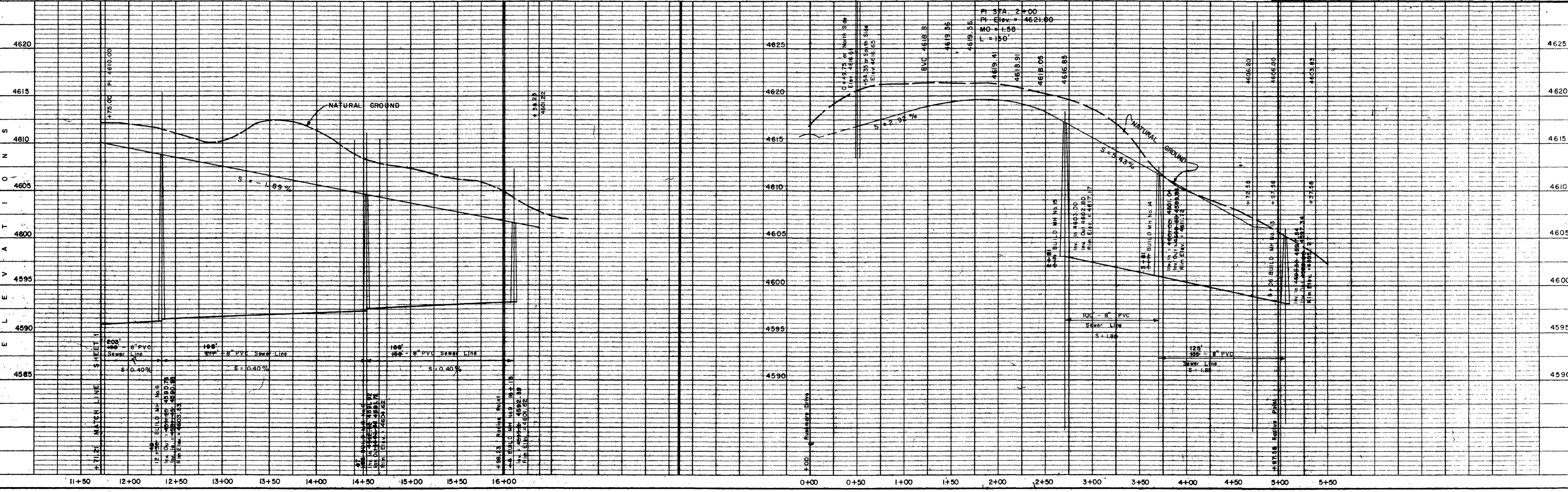
**ARMSTRONG ENGINEERS**  
 ENGINEERING - SURVEYING  
 CONCRETE & SOILS TESTING

MONUMENT VILLAGE SUBDIVISION  
 FILING NO. 3  
 STREET PLAN AND PROFILE

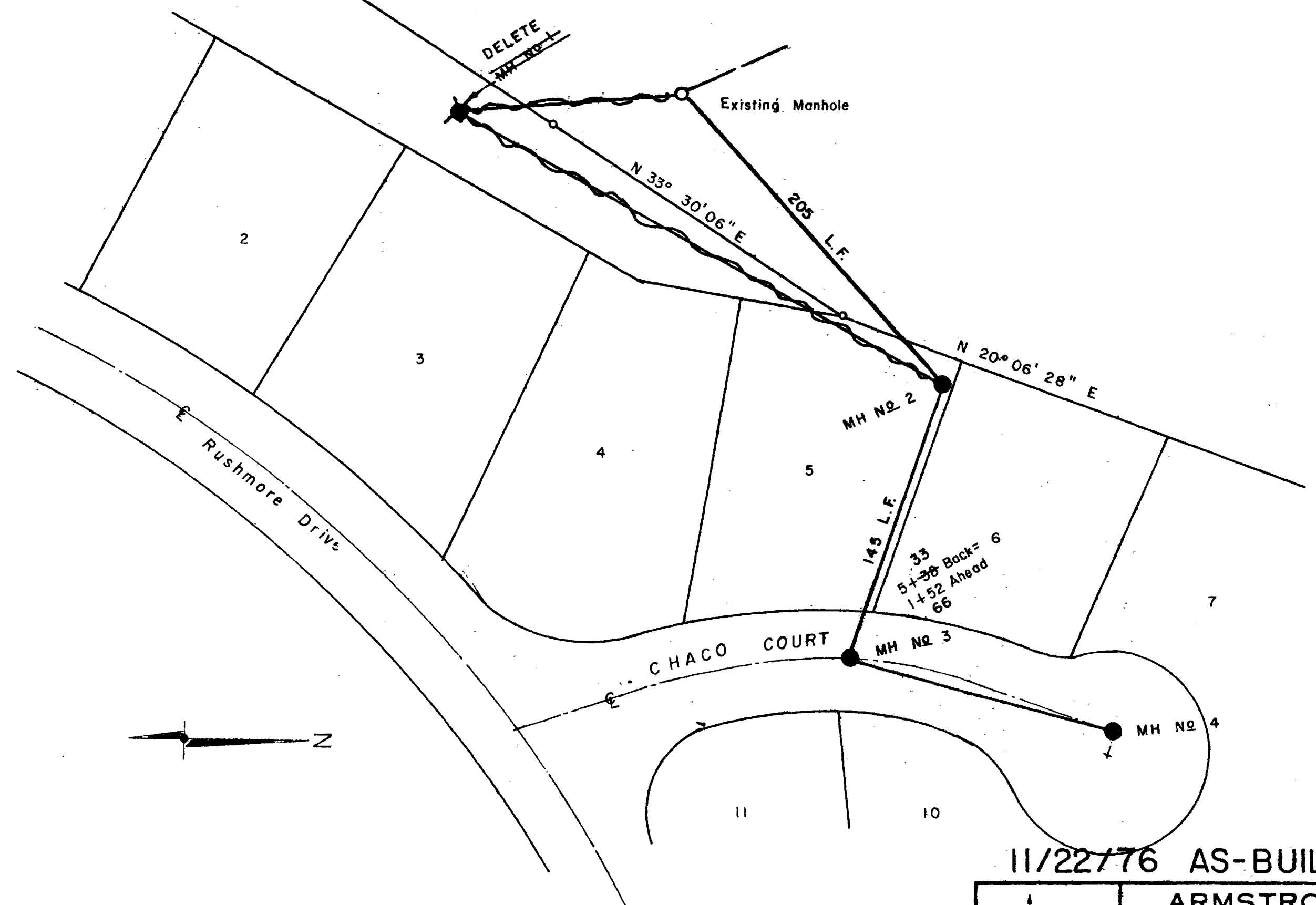
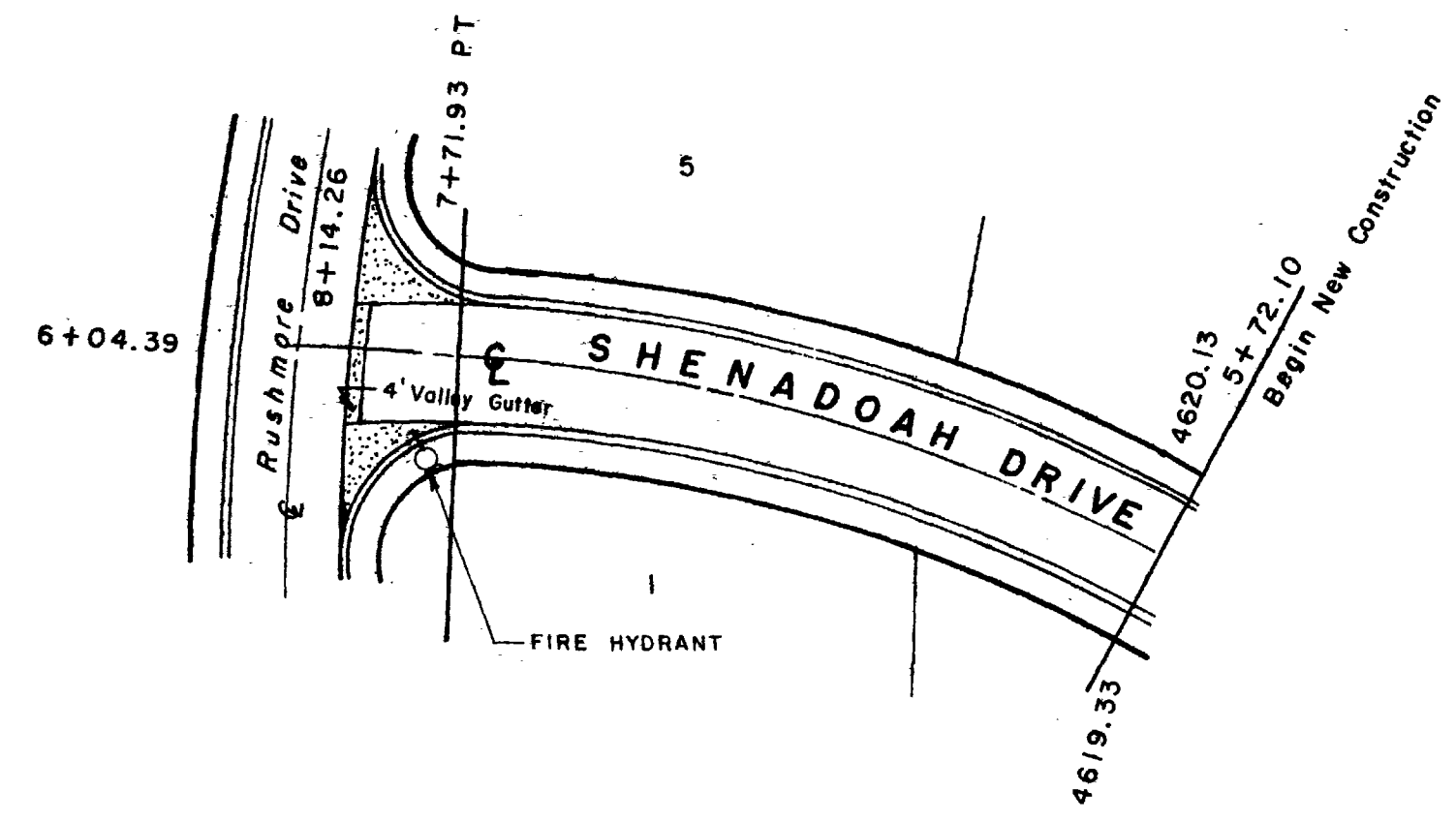
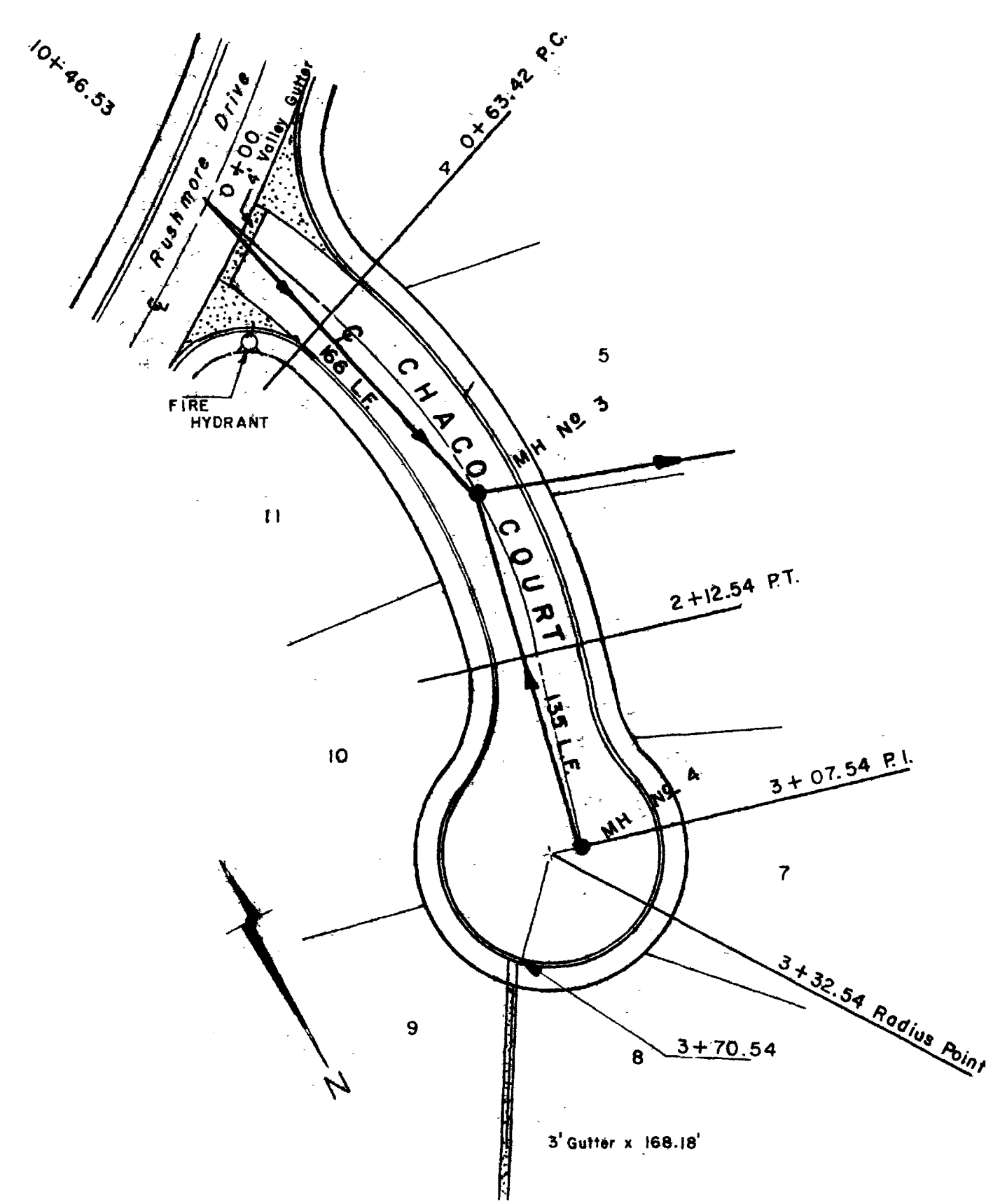
CHECKED BY: W.H.L.  
 DATE OF SURVEY:

SHEET 3 of 5  
 JOB NUMBER 76584

Scale  
 Horizontal - 1" = 50'  
 Vertical - 1" = 5'



DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 NOTE BOOK No. \_\_\_\_\_  
 STRUCTURAL DEVIATIONS CHECKED: \_\_\_\_\_



Scale  
 1" = 50' Horizontal  
 1" = 5' Vertical

NOTE:  
 Expansion or contraction joints to be in accordance with Section 13, Paragraph E, shown page 8 Mesa County Road Specs.

11/22/76 AS-BUILT SEWER PLANS

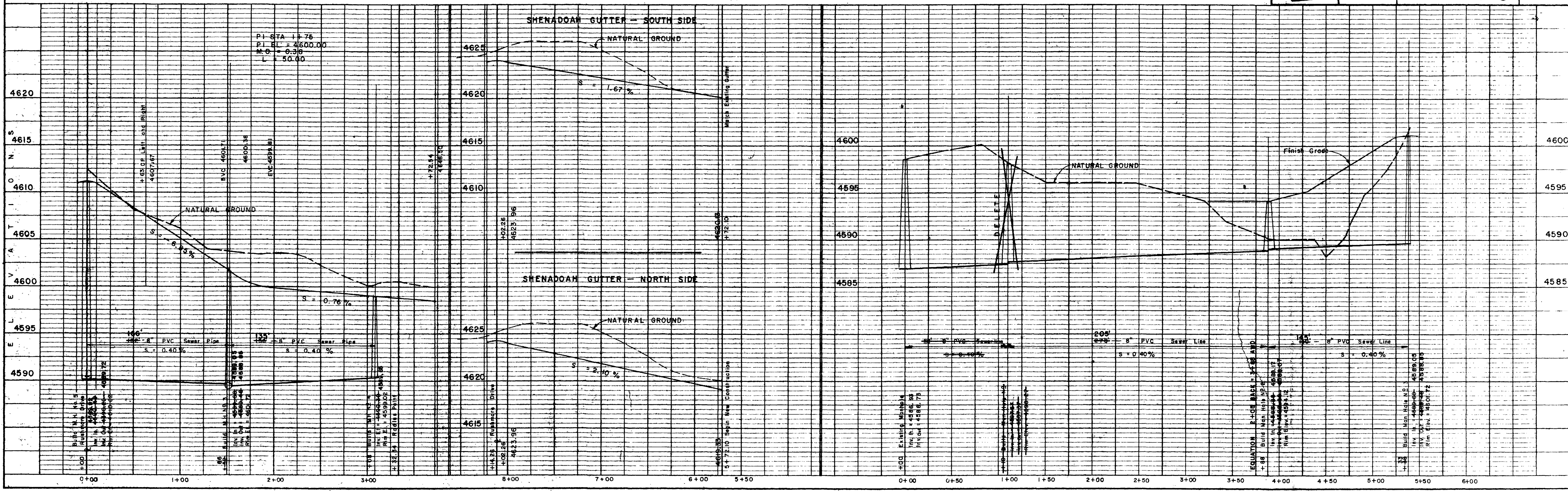
**ARMSTRONG ENGINEERS**  
 ENGINEERING - SURVEYING  
 CONCRETE & SOILS TESTING

MONUMENT VILLAGE SUBDIVISION  
 FILING NO. 3  
 STREET PLAN AND PROFILE

DATE: 3/26/76  
 BY: C.L.M.  
 CHECKED BY: W.H.L.  
 DATE OF SURVEY: \_\_\_\_\_

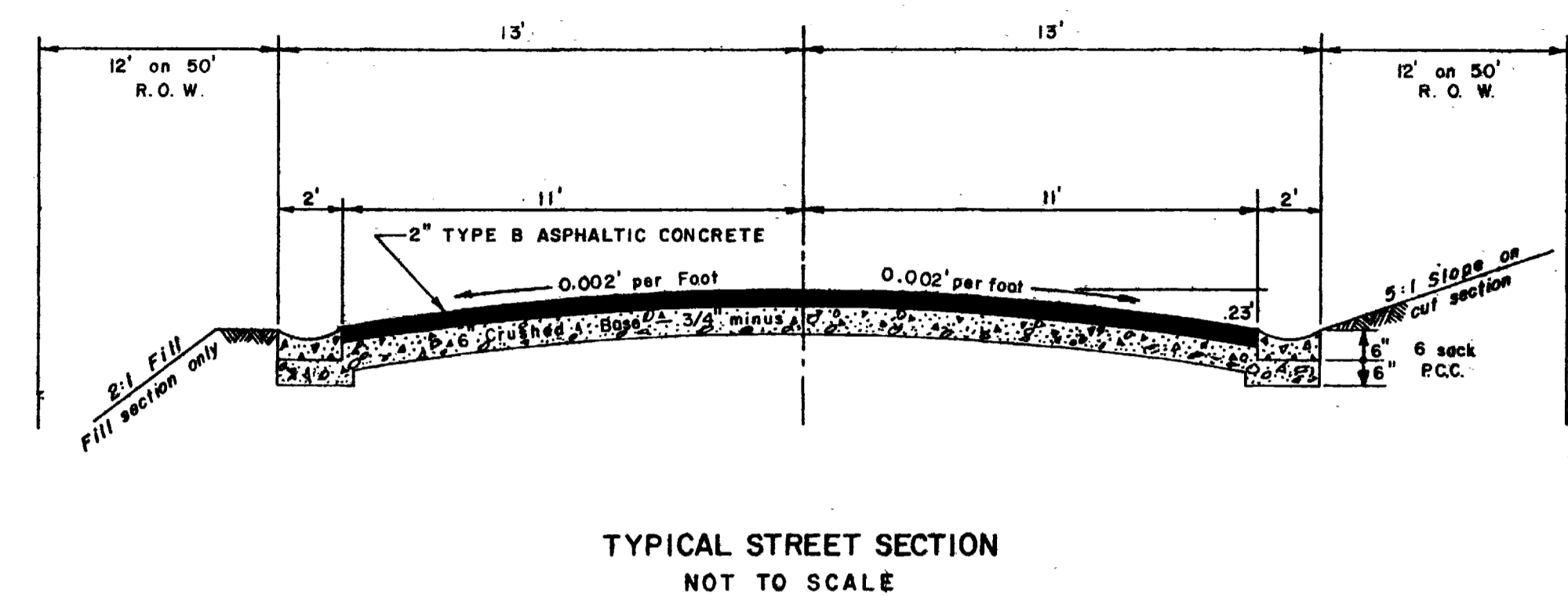
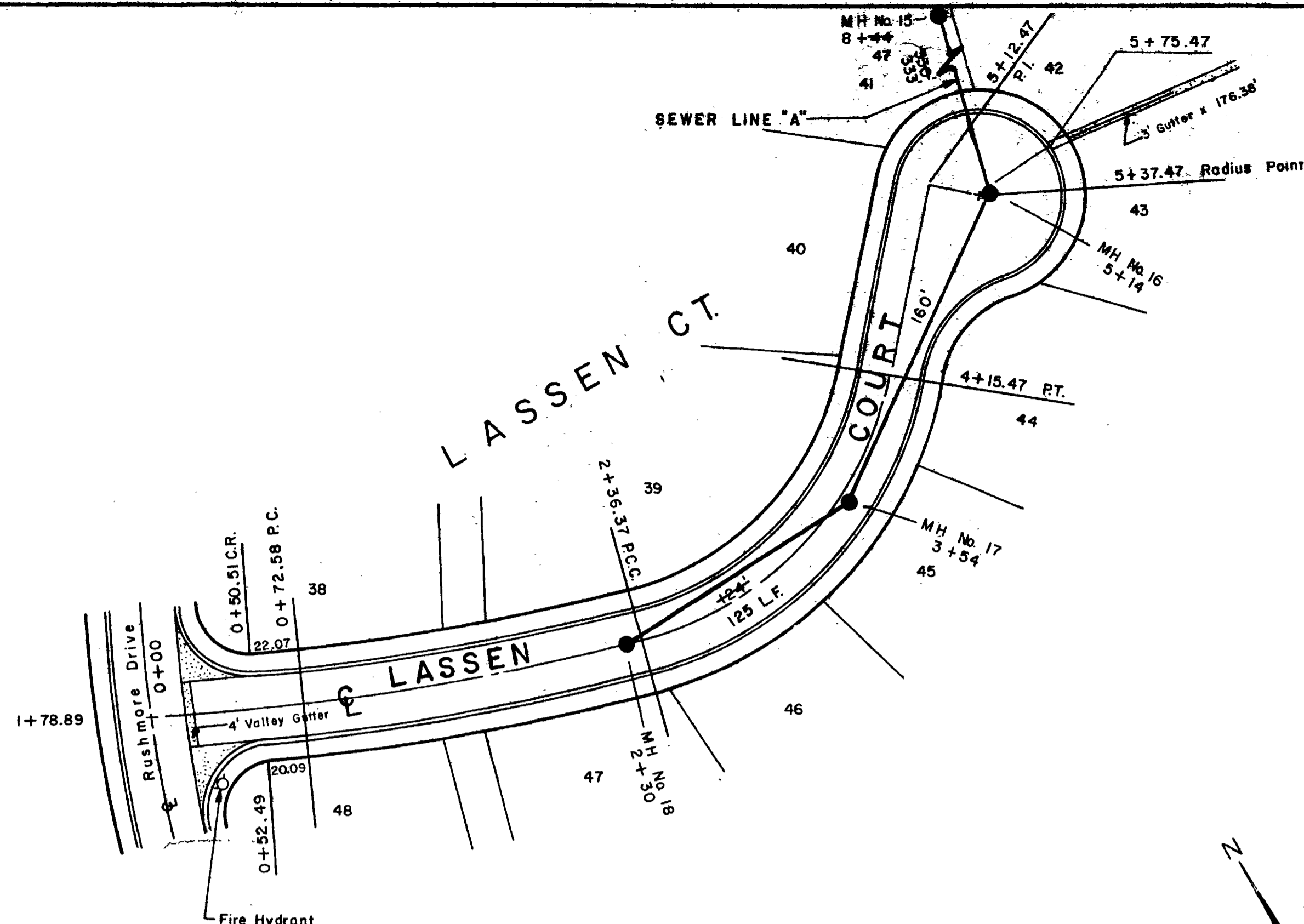
**SHEET 4 of 5** JOB NUMBER 76584

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 NOTE BOOK No. \_\_\_\_\_  
 STRUCTURAL DEVIATIONS CHECKED: \_\_\_\_\_



PLAN  
 SURVEYED BY  
 PLOTTED BY  
 CHECKED BY  
 DATE

PROFILE  
 SURVEYED BY  
 PLOTTED BY  
 CHECKED BY  
 DATE



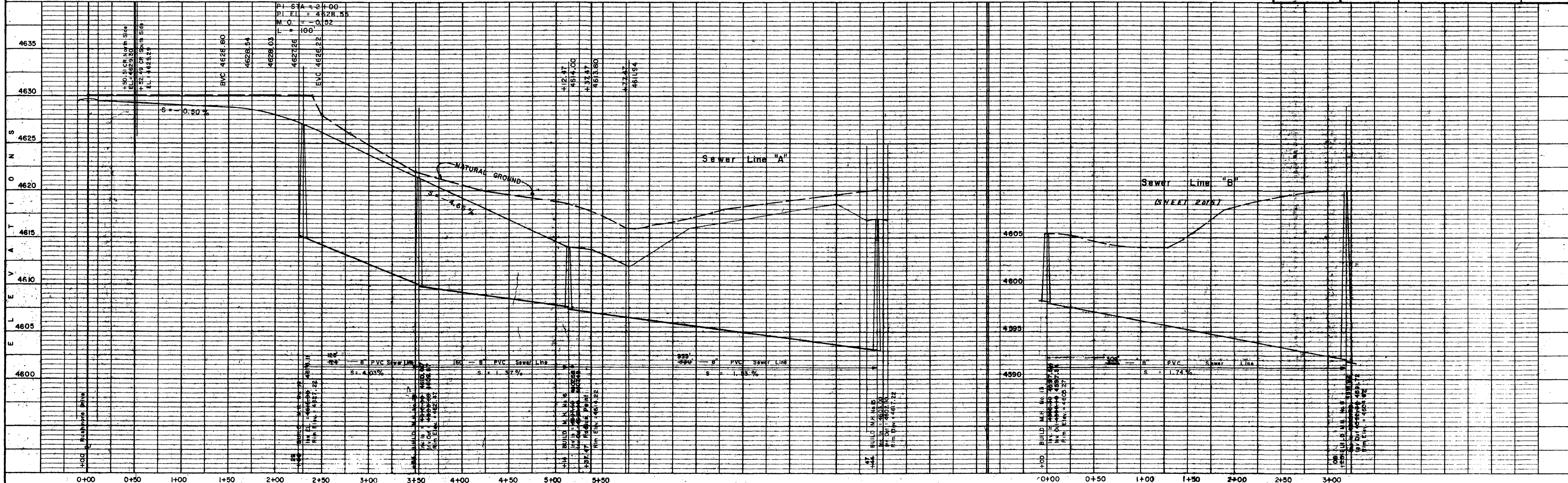
REVIEWED BY:  
 Mesa County Dept. of Public Health  
 Colorado State Dept. of Health  
 Panorama Improvement District  
*David Wiest*  
 Date 1-24-77

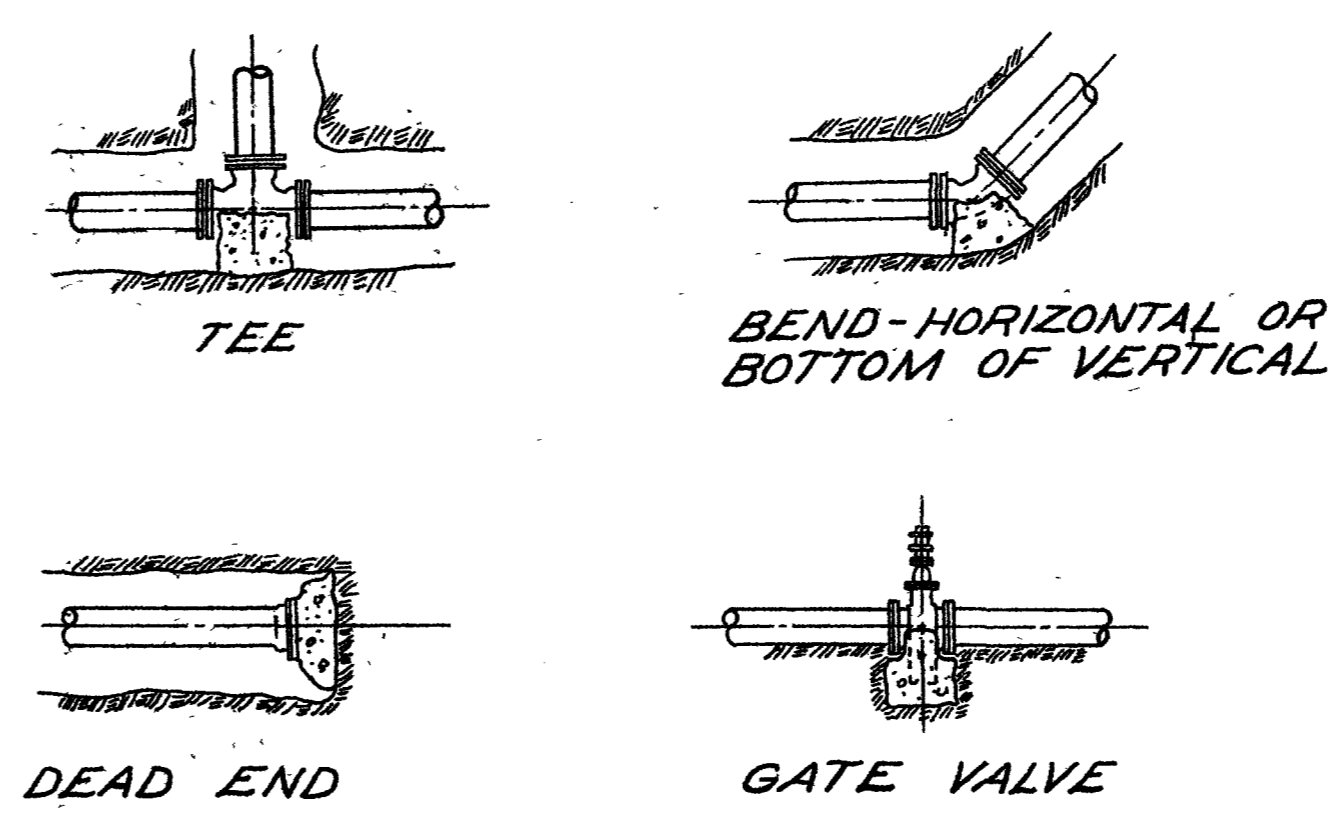
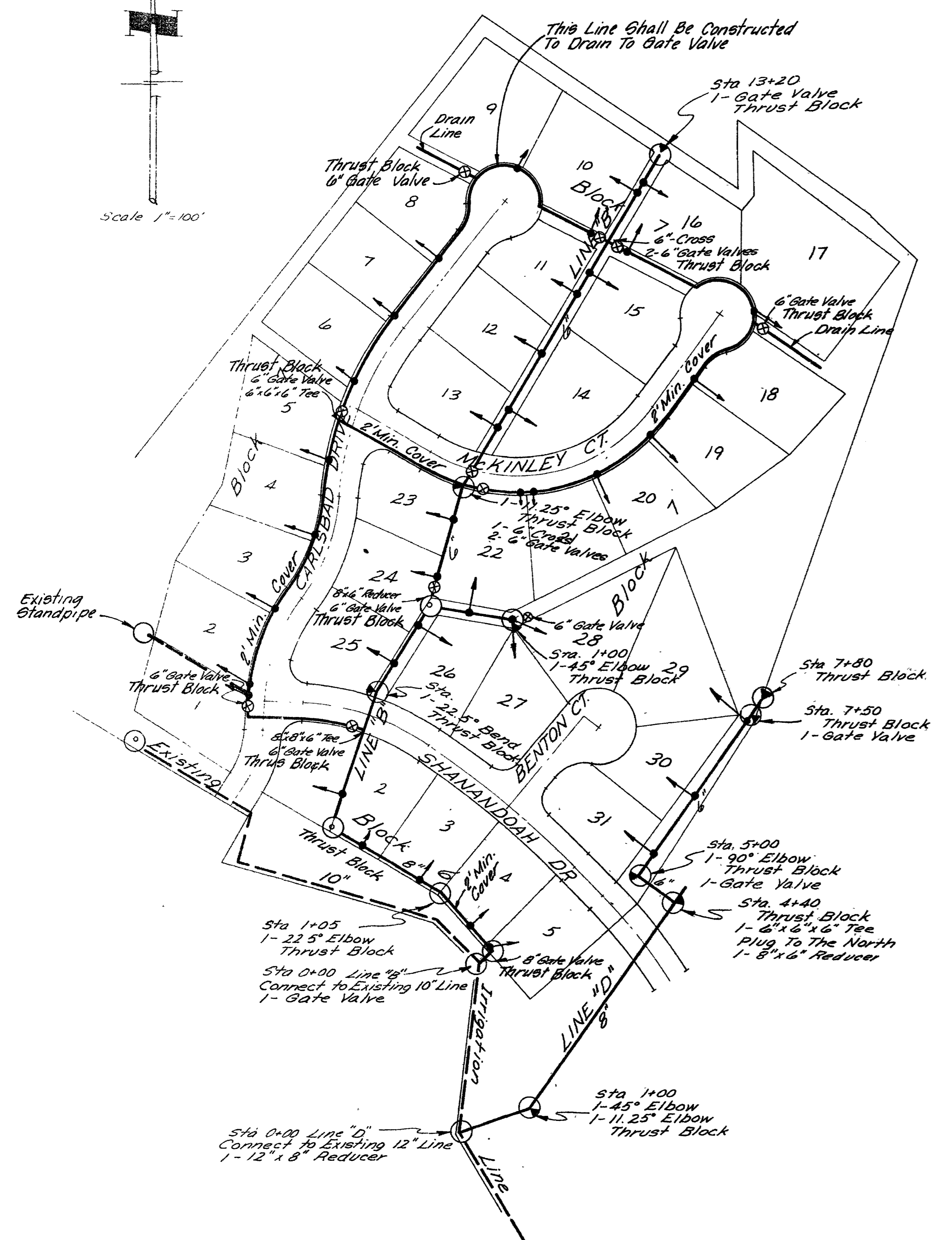
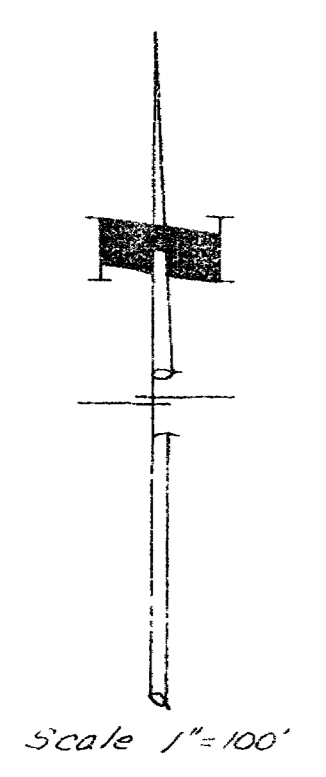
NOTES:  
 The following Specifications are made a part of this contract.  
 1. Most current Road Specs.  
 2. State Dept. of Health Specs.  
 3. Standard specifications for construction of Sanitary Sewer for Panorama Improvement District, prepared by Armstrong Engineers and Associates.  
 4. Contractor is responsible for locating all buried Utilities and Protecting same.  
 5. If vertical and horizontal clearance are less than State minimums, then concrete encasement may be required on sewer lines, where water mains are less than proximity requirements.

NOTES:  
 Expansion or contraction joints to be in accordance with Section 13, Paragraph E, shown on page 8 Mesa County Road Specs.

11/22/76 AS-BUILT SEWER PLANS

	<b>ARMSTRONG ENGINEERS</b> ENGINEERING - SURVEYING CONCRETE & SOILS TESTING	
	As Shown DATE 3/26/76 DRAWN BY R.L.S. CHECKED BY W.H.L. DATE 4/1/76	<b>MONUMENT VILLAGE SUBDIVISION</b> FILING NO. 3 STREET PLAN AND PROFILE
<b>SHEET 5 of 5</b>		JOB NUMBER 76584

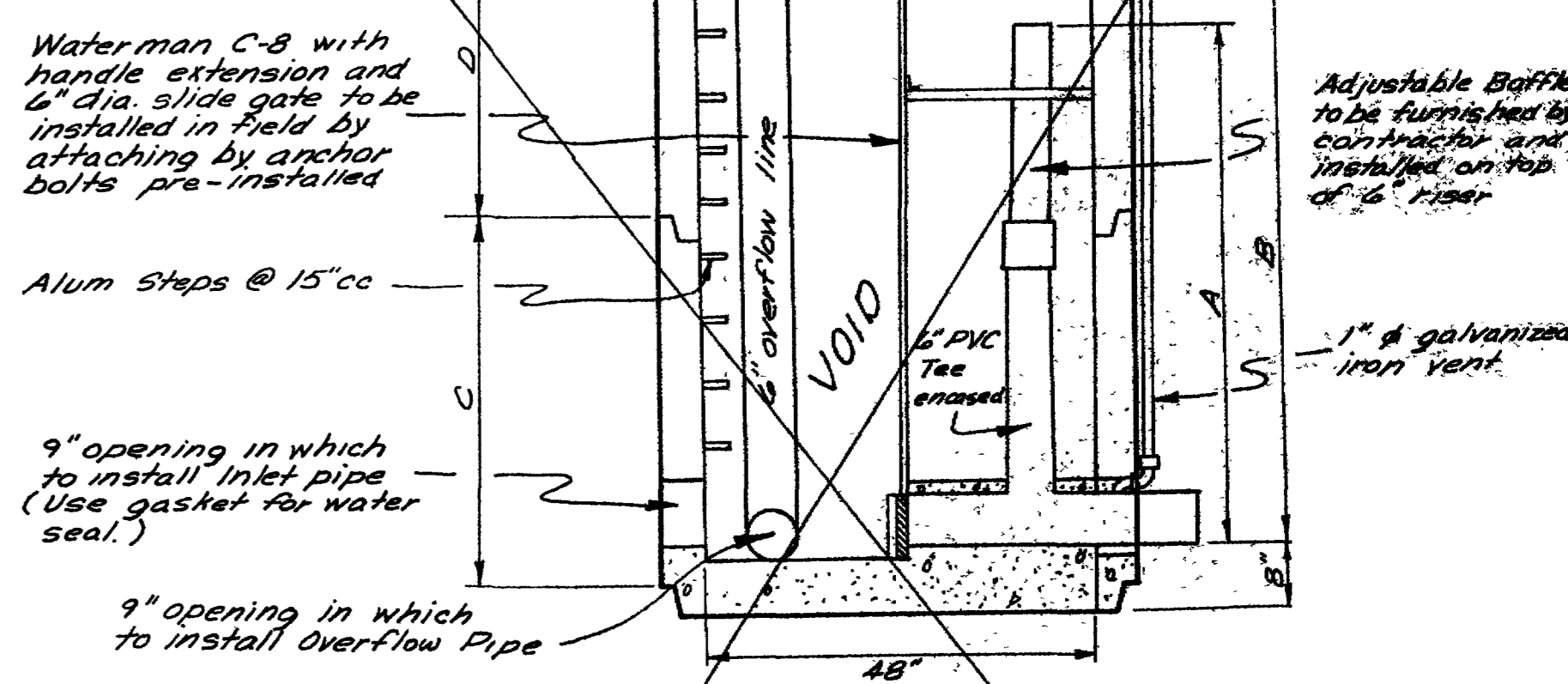
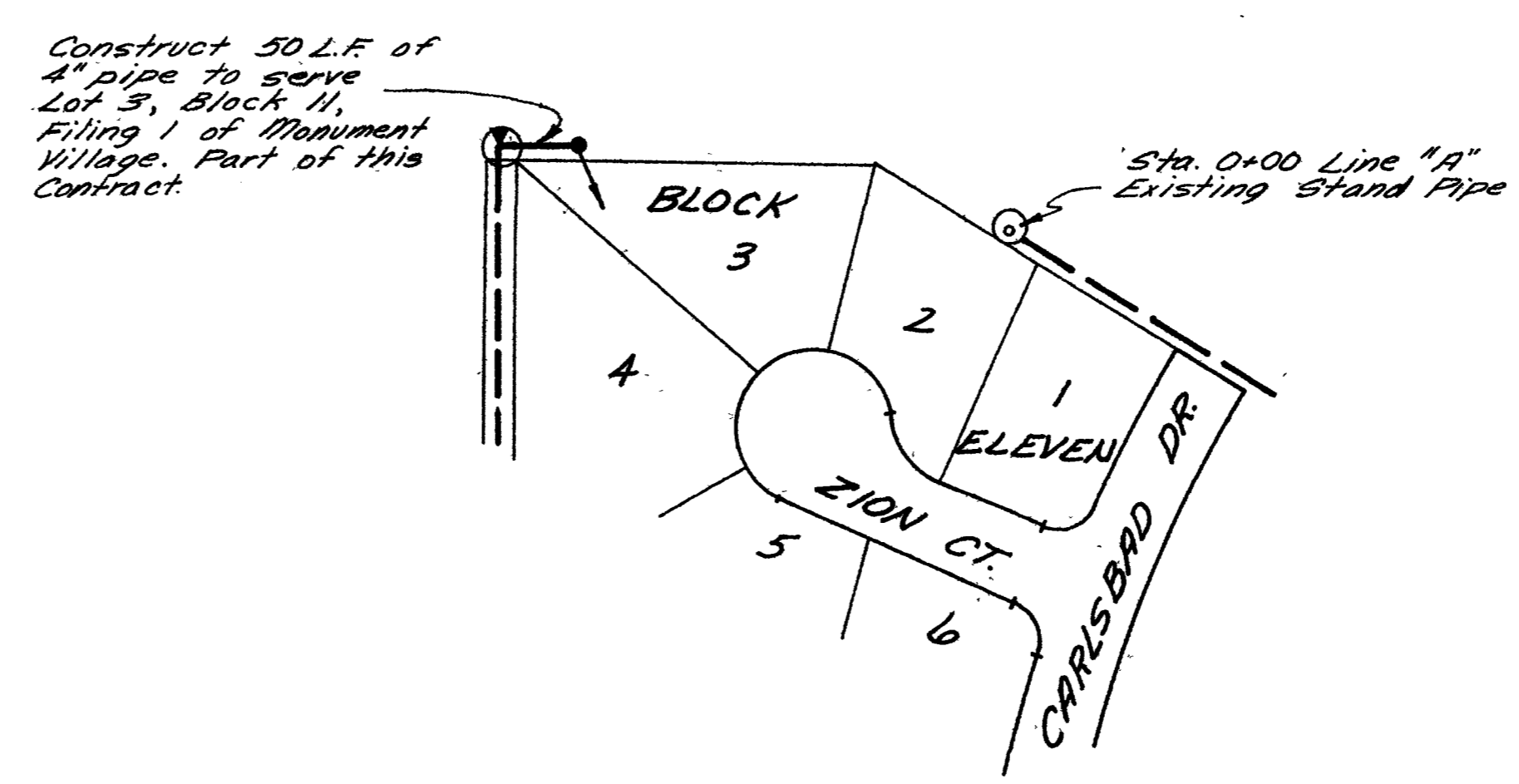




**NOTES FOR DETAILS**

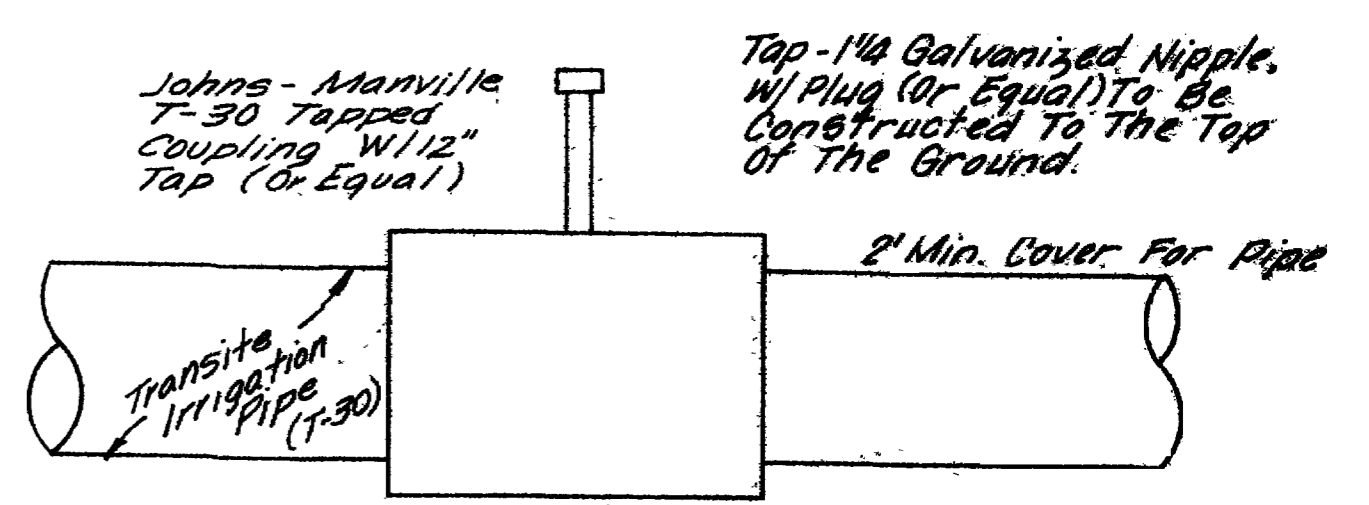
- At dead ends, wrap fittings with tar paper, felt, or heavy kraft paper to provide bond break between concrete and fitting.
- All thrust blocking shall be cast-in-place concrete having a minimum yield strength of 2000 psi.
- Thrust blocking shall be cast against undisturbed earth. Forms shall be used as reqd. to obtain adequate bearing area and to confine the concrete. Thrust blocking shall bear on the fitting or end cap only and should not be allowed to spill over the joint or against the pipe.

**THRUST BLOCK DETAILS**  
No Scale

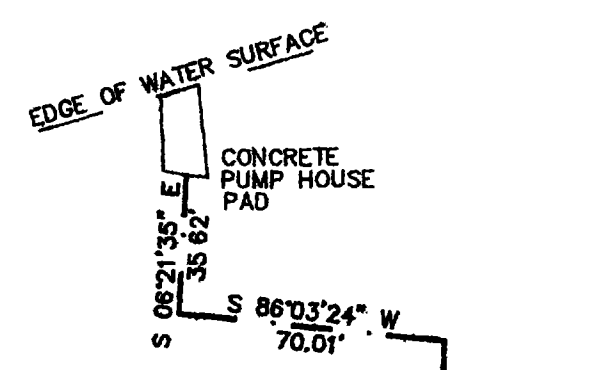


Stand Pipe No.	A	B	C	D	INLET ELEV.	OVERFLOW ELEV.	OVERFLOW
1	6.0'	7.5'	3.5'	5.5'	4622.50	4615.50	YES
2	2.52'	3.52'	7.5'		4621.50	4618.98	NO
3	7.0'	8.5'	7.5'	4.5'	4618.64	4611.64	YES

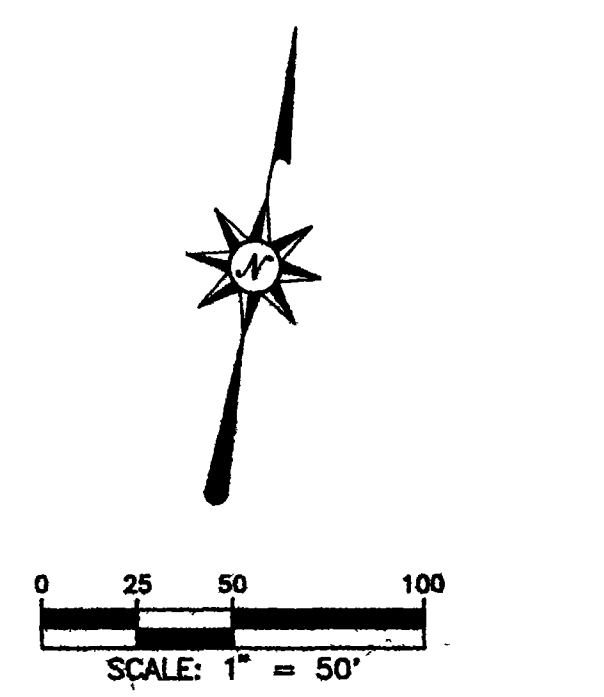
**48" DIA. PRECAST STANDPIPE CONTROL STRUCTURE**  
Scale 1"=20'



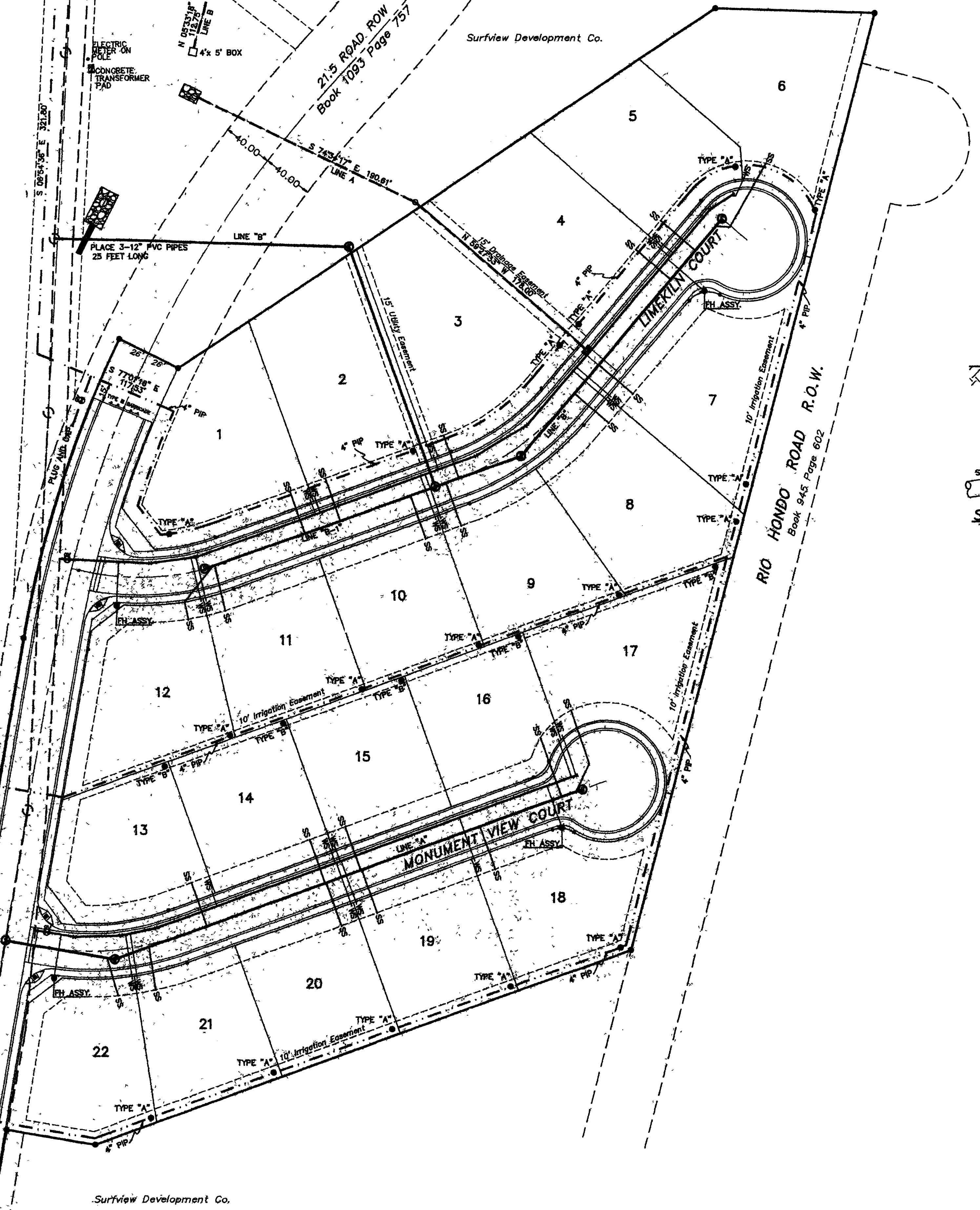
**TYPICAL SERVICE TAP DETAIL**  
No Scale



MATCH LINE



Surfview Development Co.  
(Future Development)



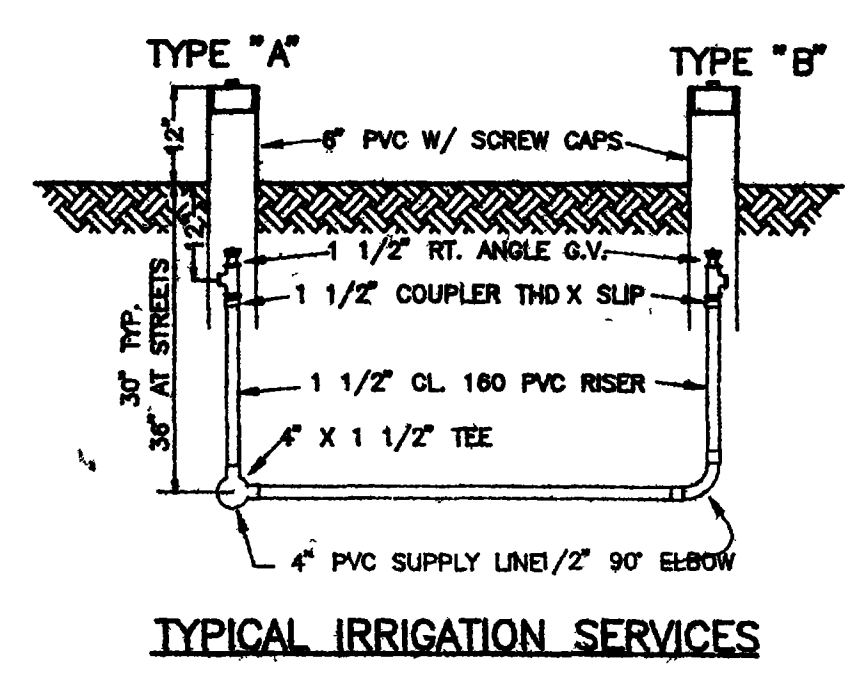
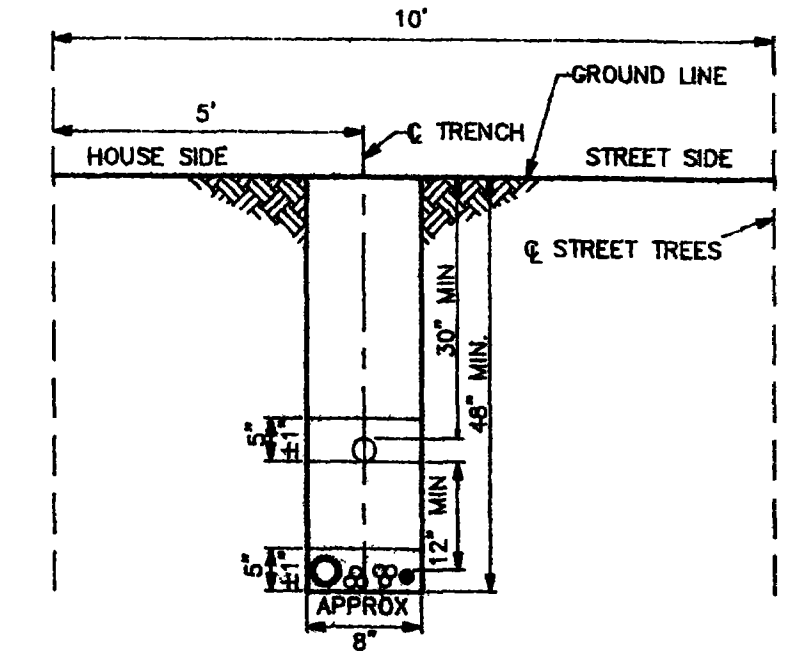
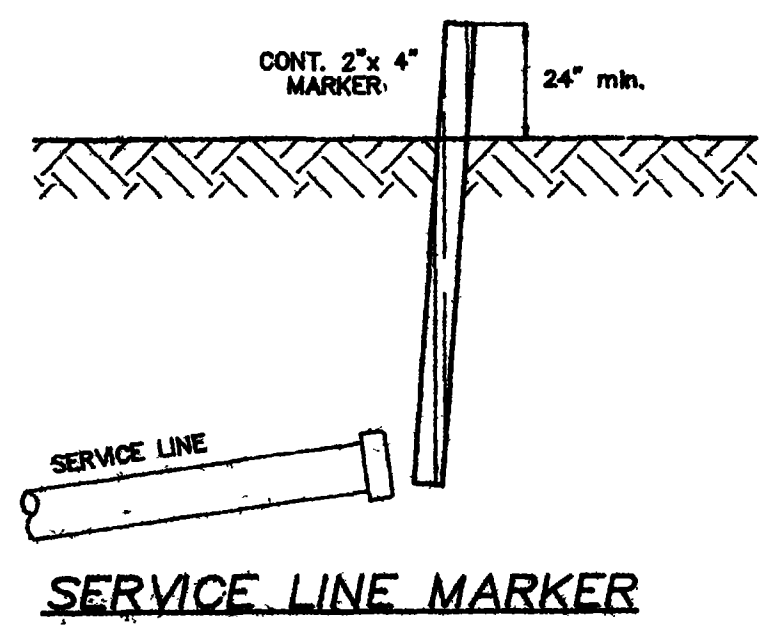
NOTE:  
EXISTING WATER LINE LOCATION APPROXIMATE.  
LOCATION TO BE FIELD VERIFIED BY CONTRACTOR  
DURING CONSTRUCTION PHASE.

NOTE:  
ALL WATER LINE BENDS ARE 11-1/4\"/>

SEE DETAIL SHEETS DT-1 THROUGH DT-4 FOR  
STANDARD CITY DETAILS

**LEGEND FOR JOINT TRENCH DETAILS**

- ELECTRIC PRIMARY
- ELECTRIC SECONDARY
- ELECTRIC SERVICE
- TELEPHONE AND/OR CABLE TV
- GAS PIPE



**FOR REVIEW**

CITY OF GRAND JUNCTION

APPROVED FOR CONSTRUCTION FOR ONE YEAR FROM THIS DATE.

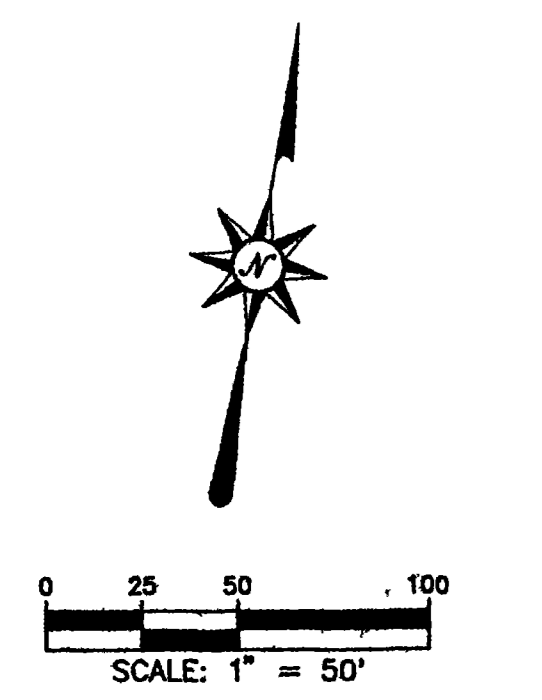
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

ACCEPTED AS CONSTRUCTED

BY: \_\_\_\_\_ DATE: \_\_\_\_\_

PHILIP M. HART  
REGISTERED PROFESSIONAL ENGINEER  
P.E. NO. 19346

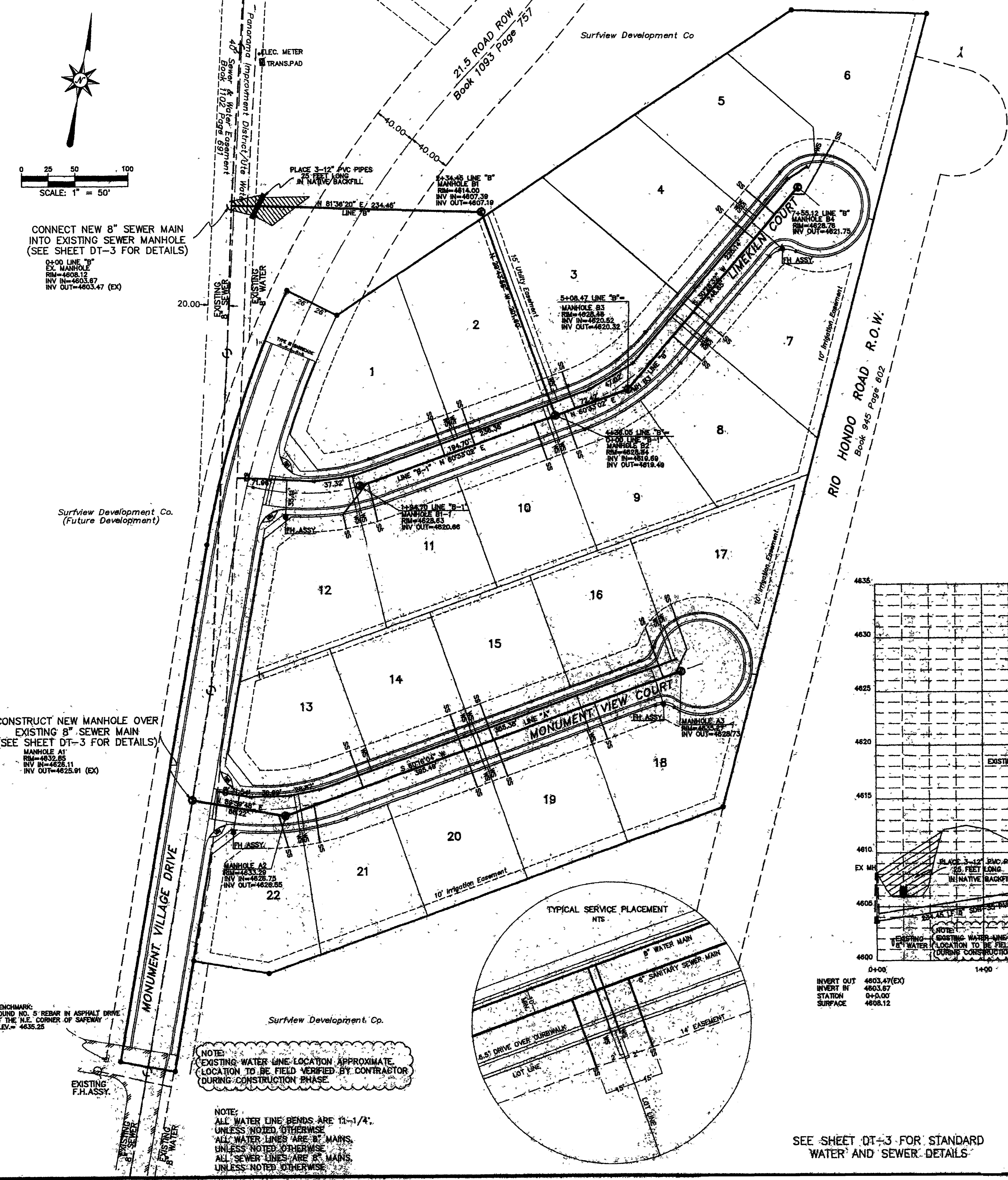
UTILITY COMPOSITE			
MONUMENT VILLAGE			
FILING NO. 4			
SUBDIVISION			
<b>LANDesign</b>			
ENGINEERS SURVEYORS PLANNERS			
200 NORTH 6TH STREET SUITE 102			
GRAND JUNCTION, COLORADO 81501 (303) 244-9180			
PROJECT NO 93034	DESIGNED DRAWN	CHECKED	SHEET OF
DATE, MAY, 1995	MB	RSK	93034UC1 1



CONNECT NEW 8" SEWER MAIN INTO EXISTING SEWER MANHOLE (SEE SHEET DT-3 FOR DETAILS)  
 0+00 LINE "B"  
 EX. MANHOLE  
 RM=4608.12  
 INV IN=4603.67  
 INV OUT=4603.47 (EX)

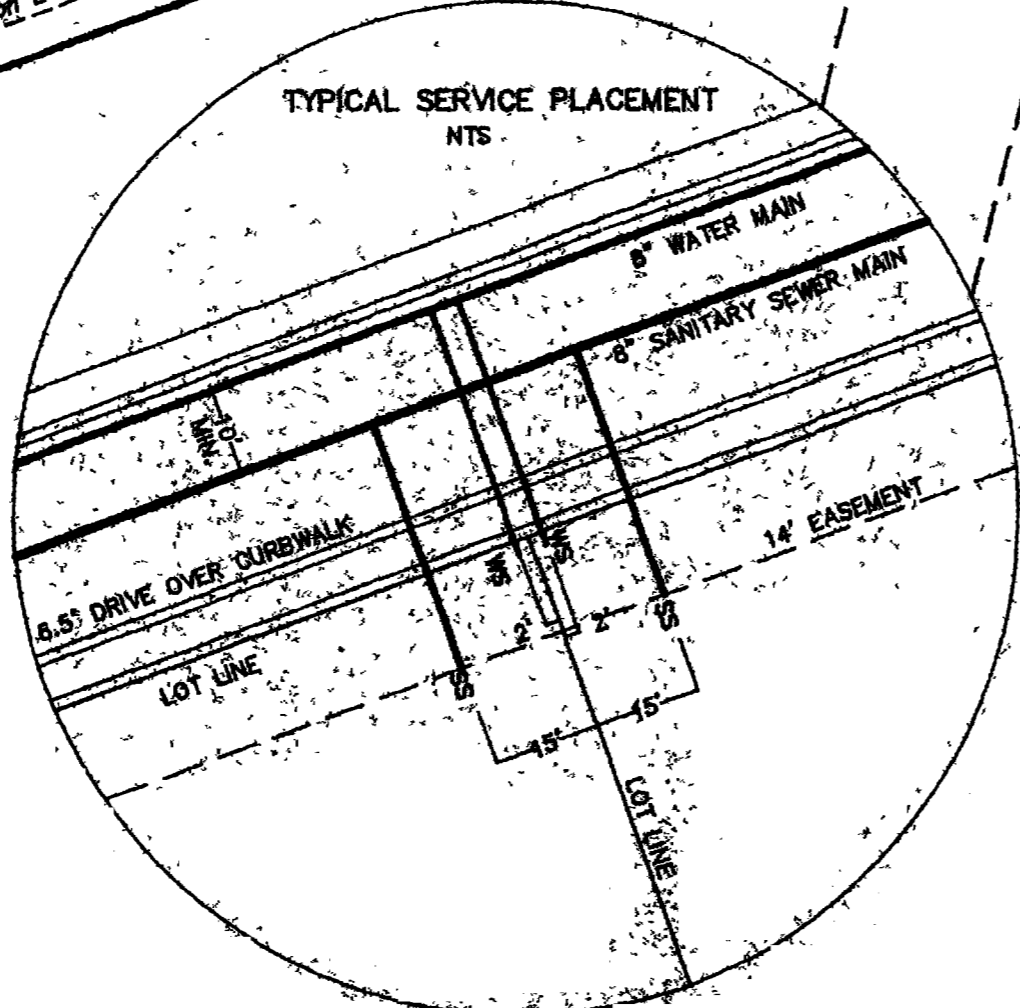
CONSTRUCT NEW MANHOLE OVER EXISTING 8" SEWER MAIN (SEE SHEET DT-3 FOR DETAILS)  
 MANHOLE A1  
 RM=4632.85  
 INV IN=4626.11  
 INV OUT=4625.91 (EX)

BENCHMARK:  
 FOUND NO. 5 REBAR IN ASPHALT DRIVE AT THE N.E. CORNER OF SAFEWAY  
 ELEV. = 4635.25

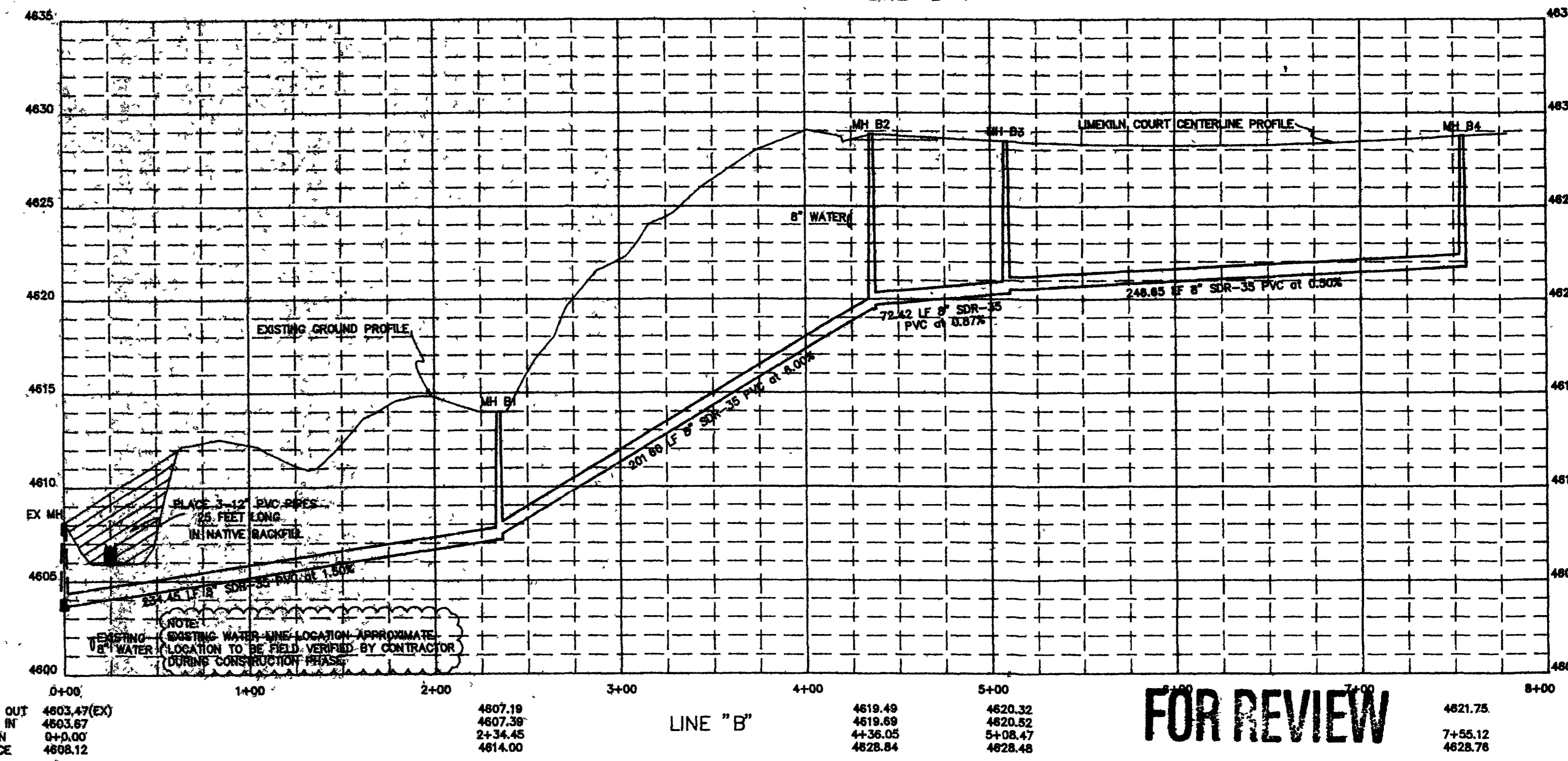
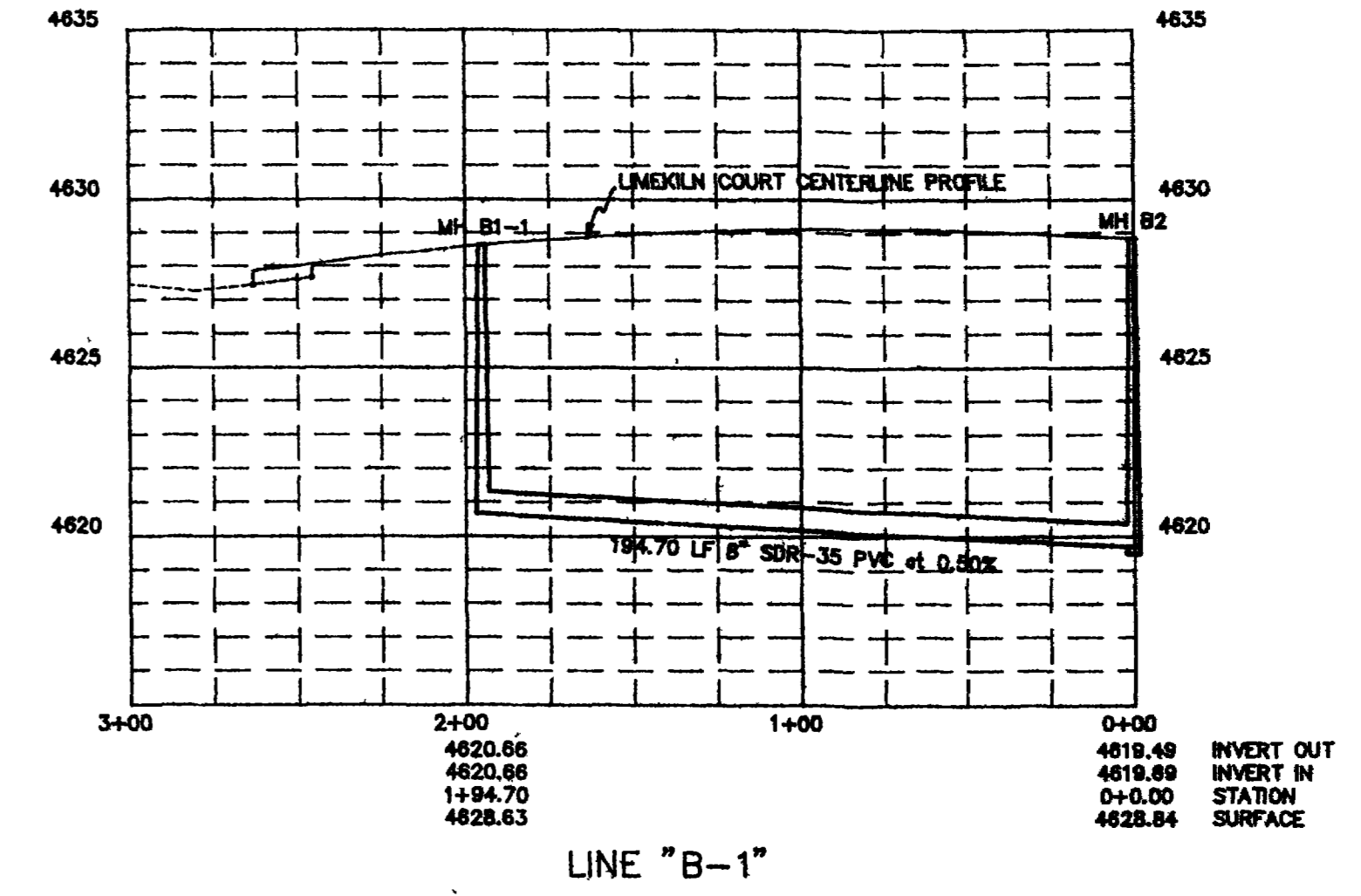
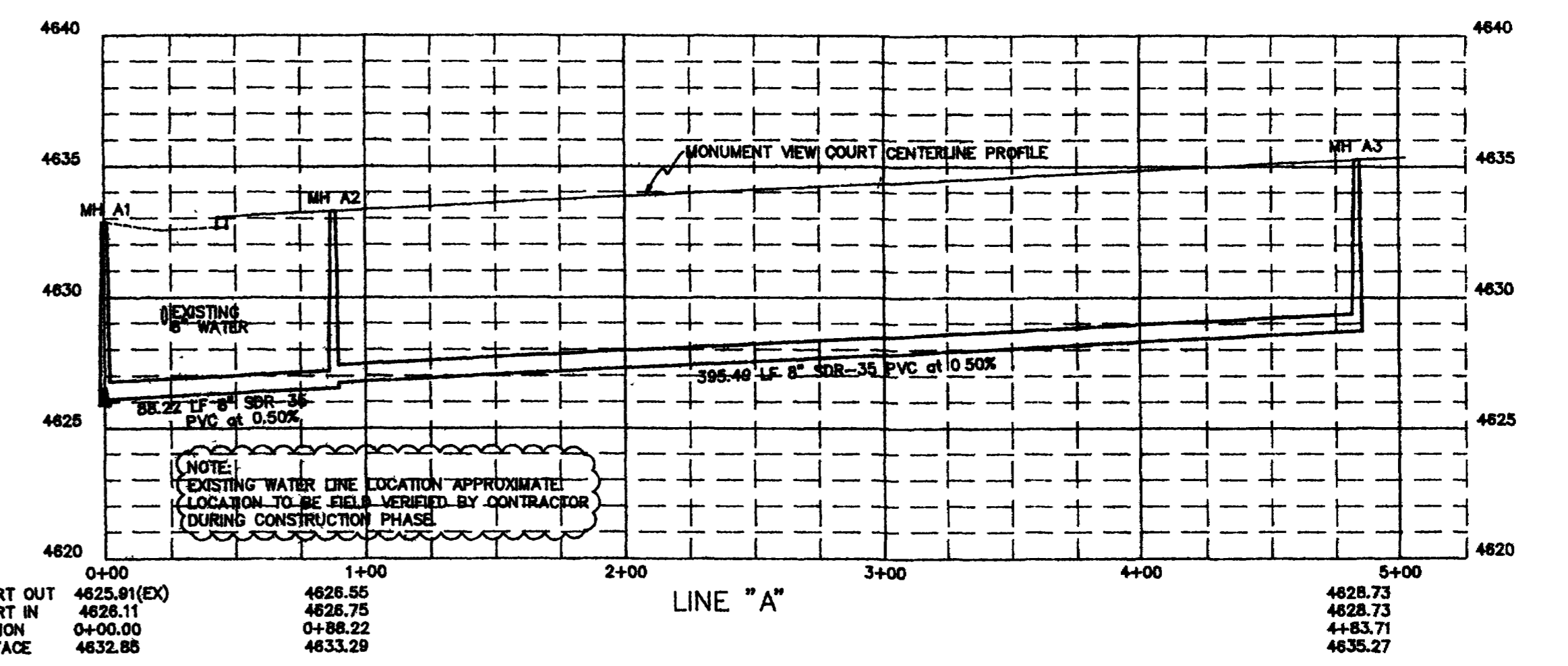


NOTE:  
 EXISTING WATER LINE LOCATION APPROXIMATE. LOCATION TO BE FIELD VERIFIED BY CONTRACTOR DURING CONSTRUCTION PHASE.

NOTE:  
 ALL WATER LINE BENDS ARE 11-1/4".  
 UNLESS NOTED OTHERWISE  
 ALL WATER LINES ARE 1" MANS.  
 UNLESS NOTED OTHERWISE  
 ALL SEWER LINES ARE 8" MANS.  
 UNLESS NOTED OTHERWISE



SEE SHEET DT-3 FOR STANDARD WATER AND SEWER DETAILS.



**FOR REVIEW**

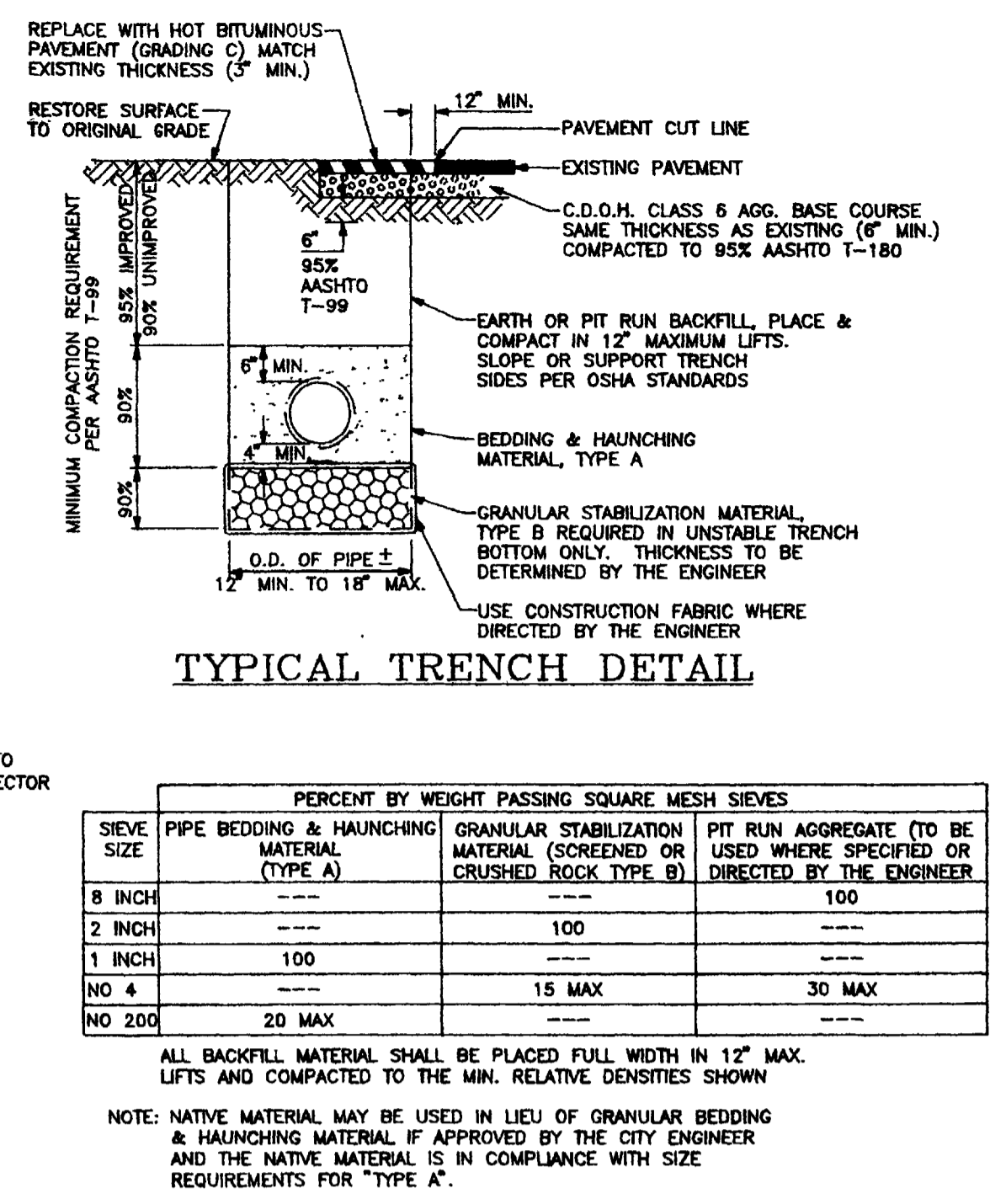
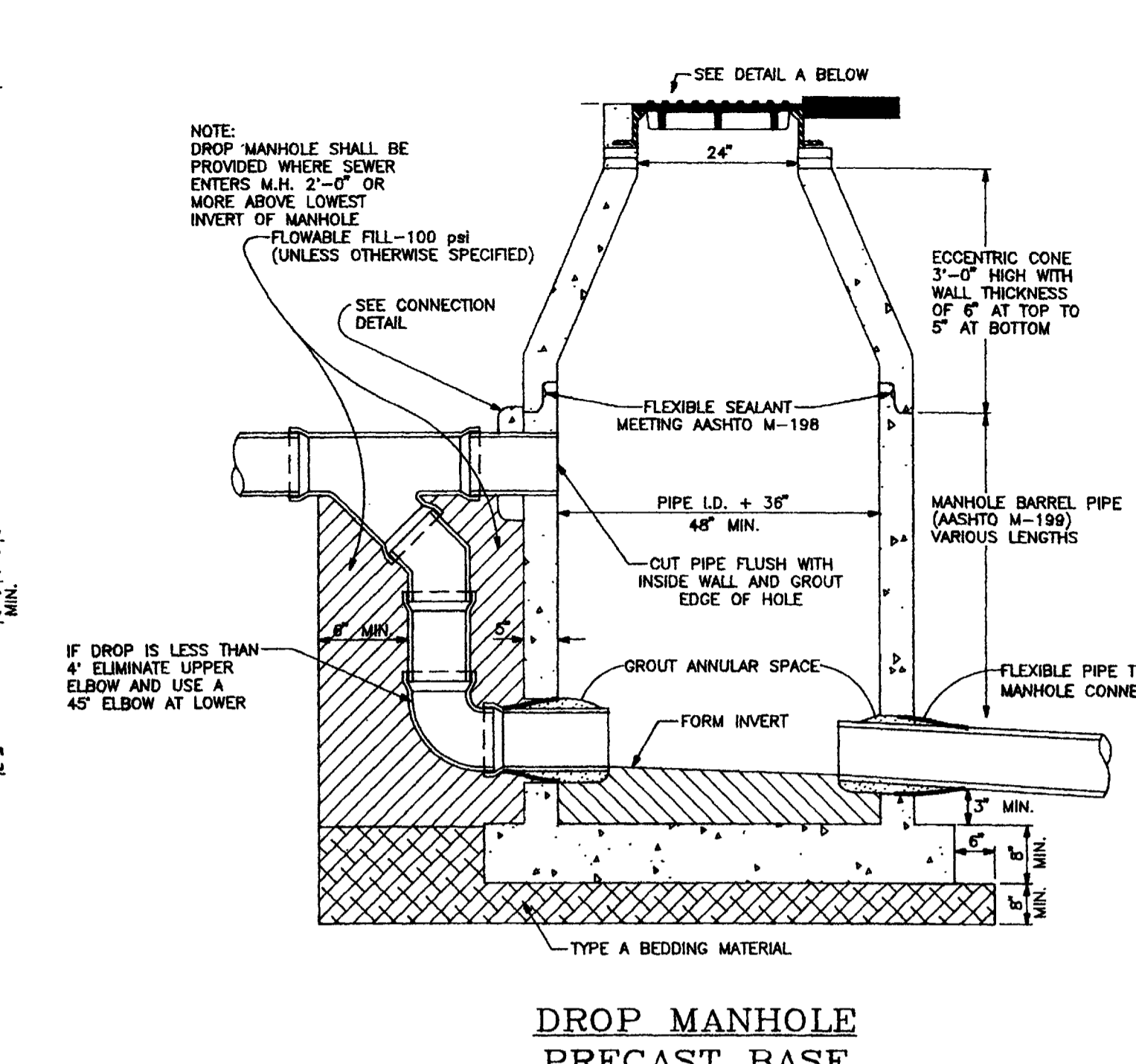
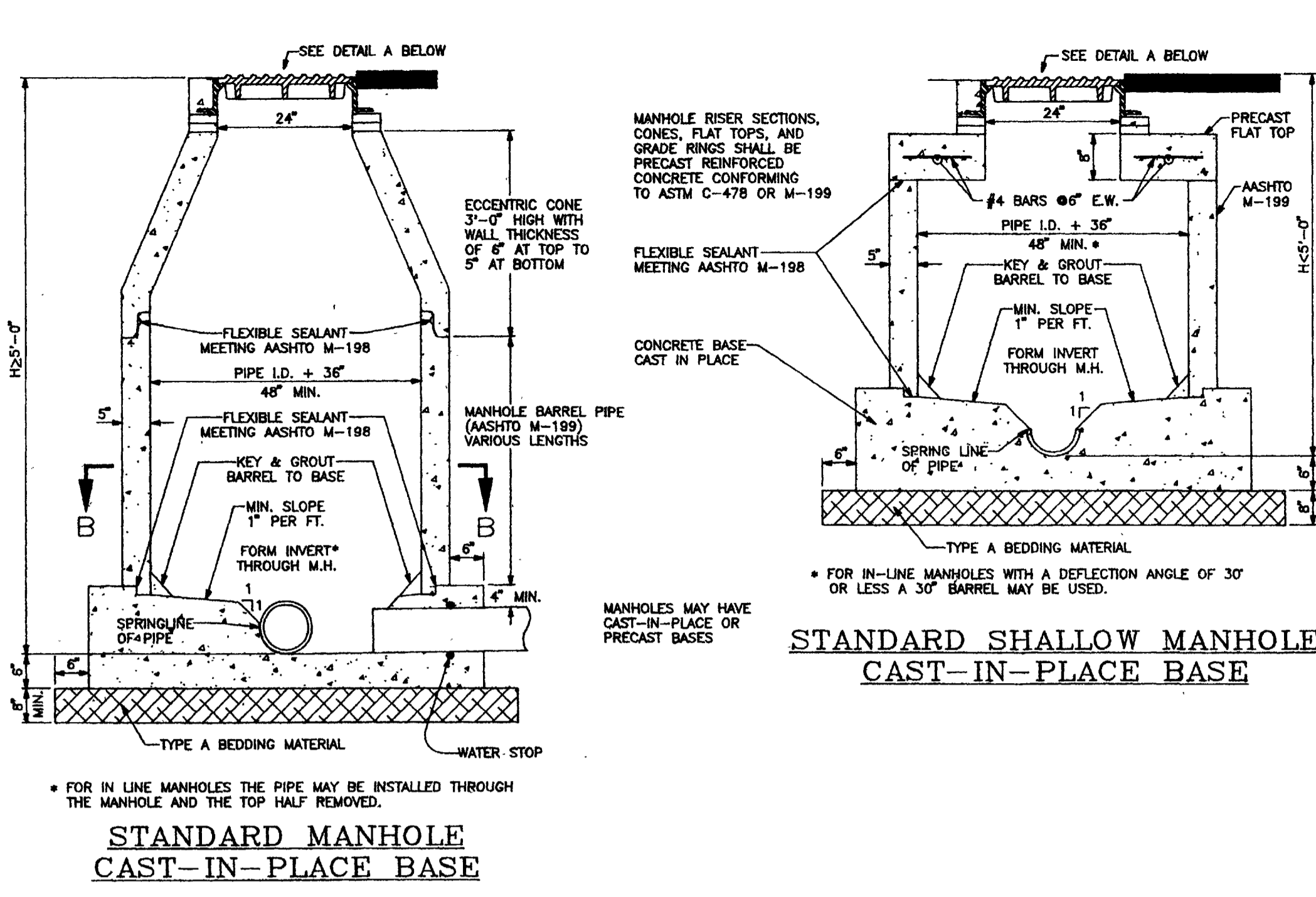
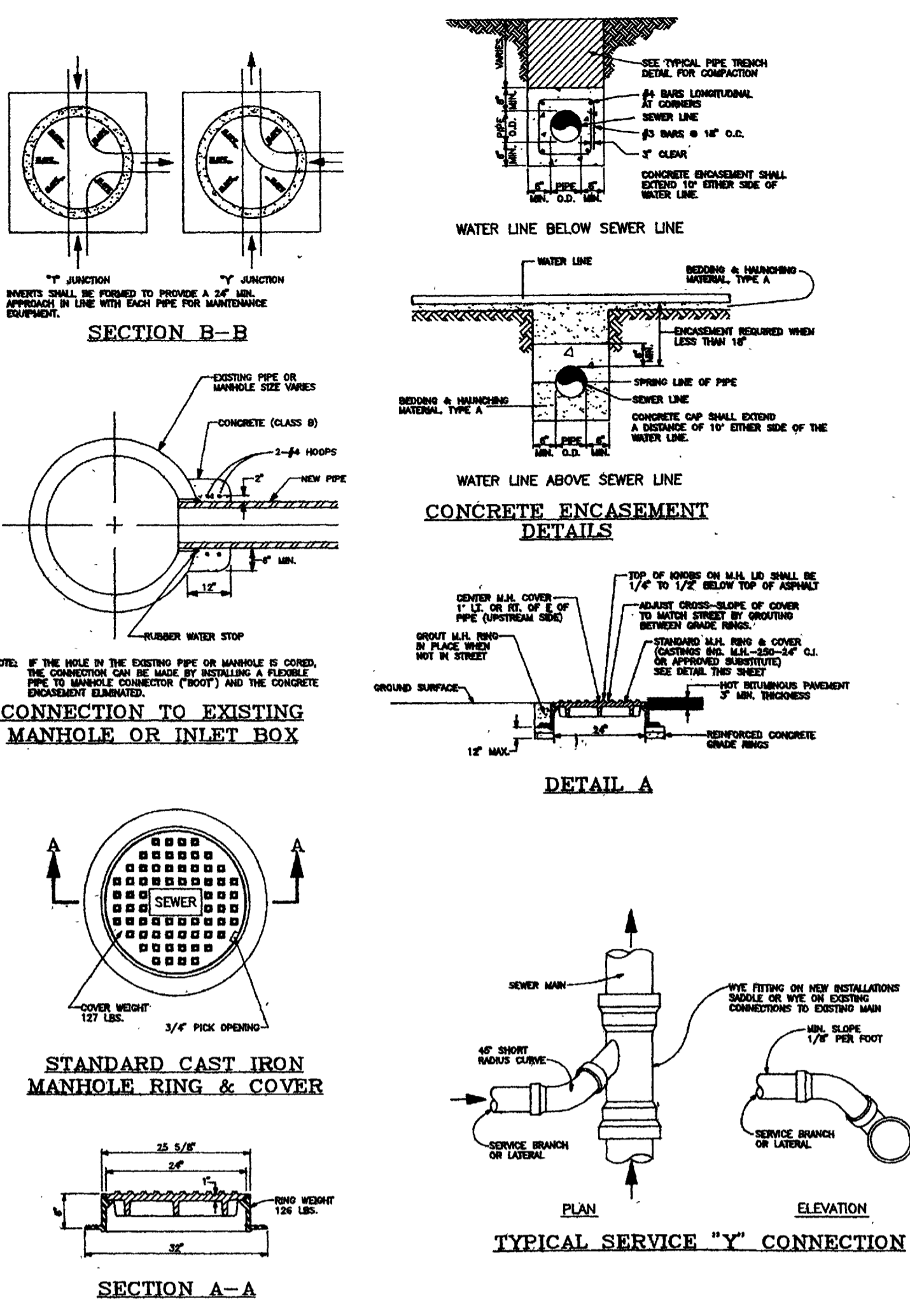
PROFILE SCALE:  
 1"=50'H 1"=5'V

CITY OF GRAND JUNCTION  
 APPROVED FOR CONSTRUCTION FOR ONE YEAR FROM THIS DATE.  
 BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 ACCEPTED AS CONSTRUCTED  
 BY: \_\_\_\_\_ DATE: \_\_\_\_\_

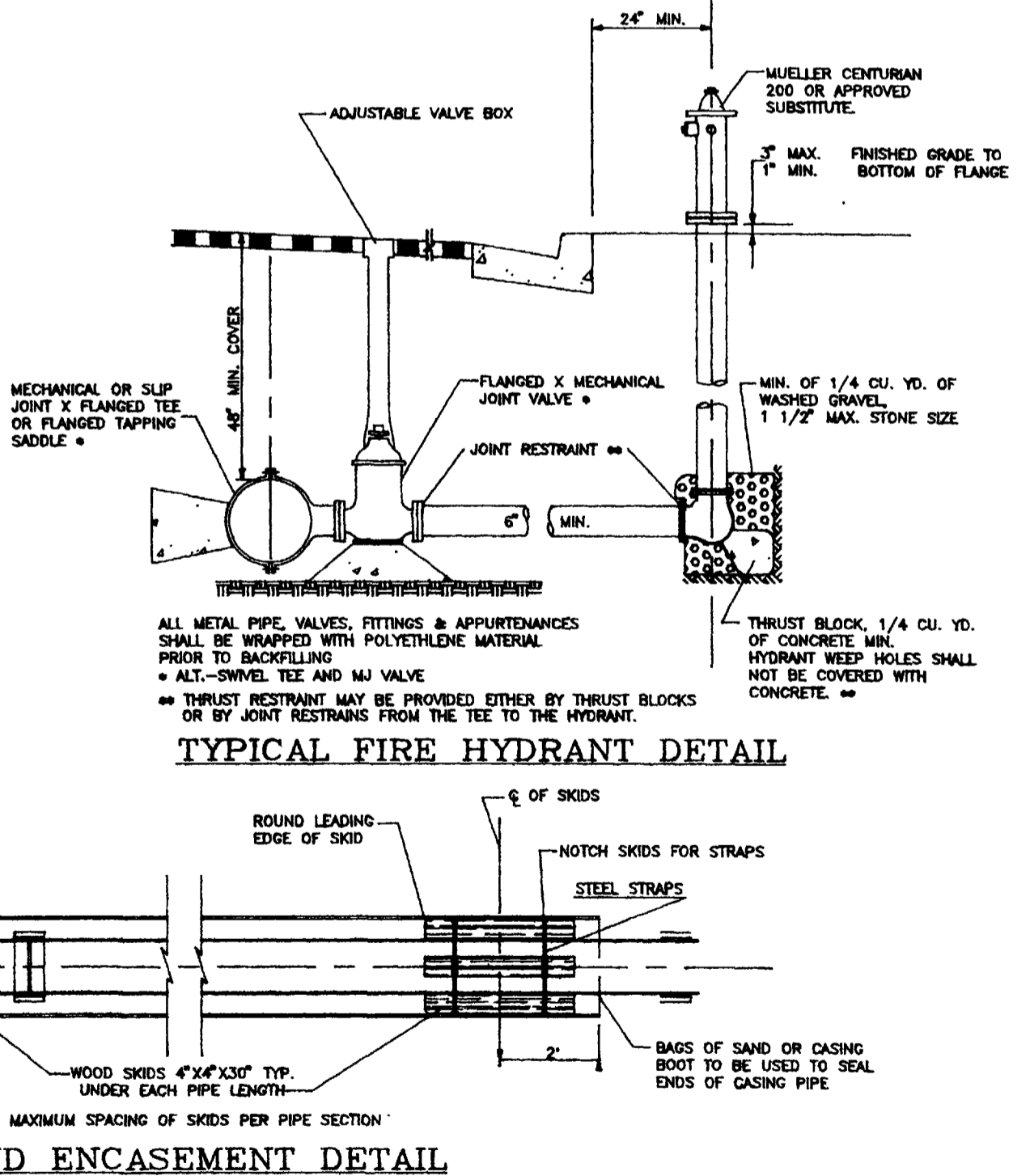
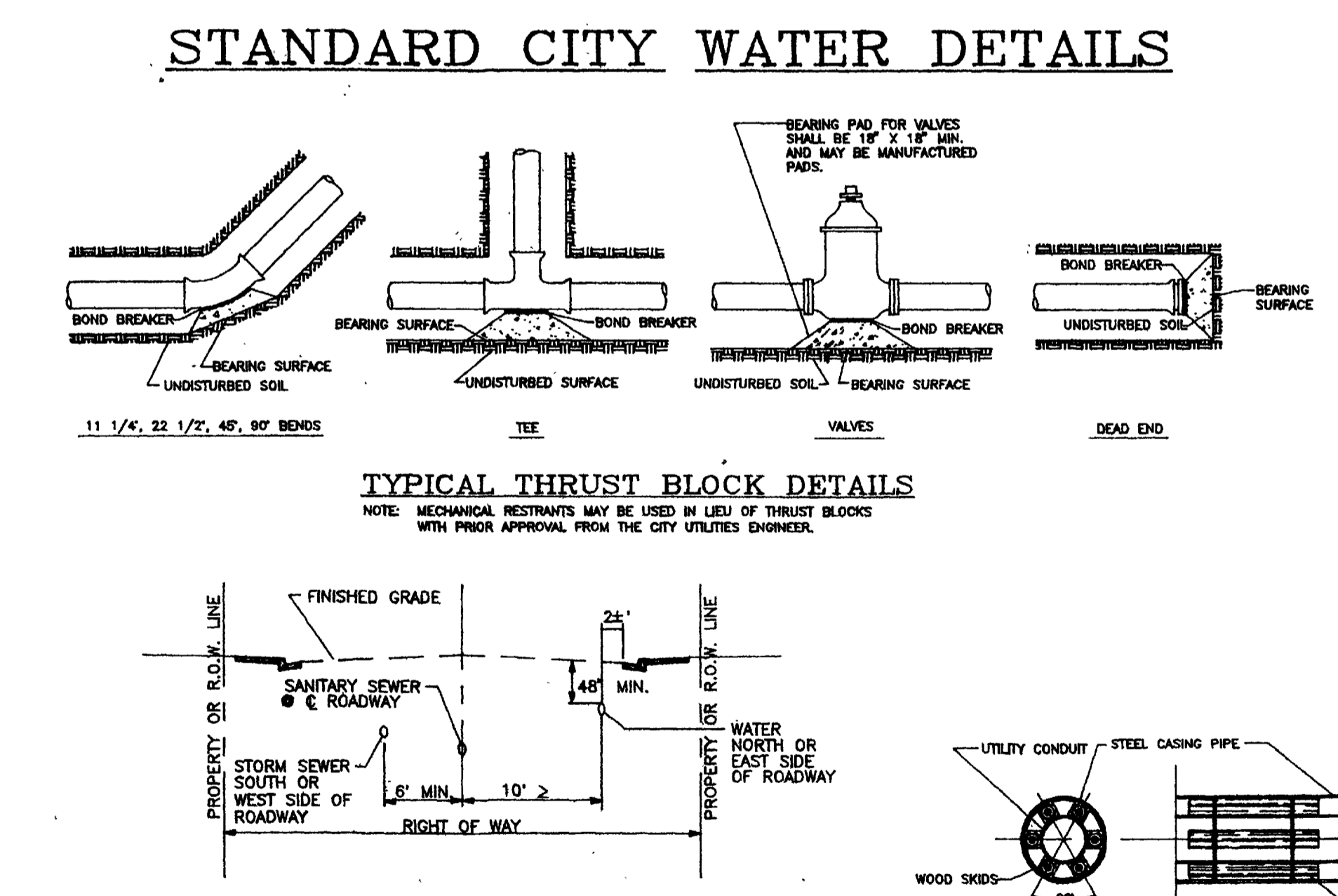
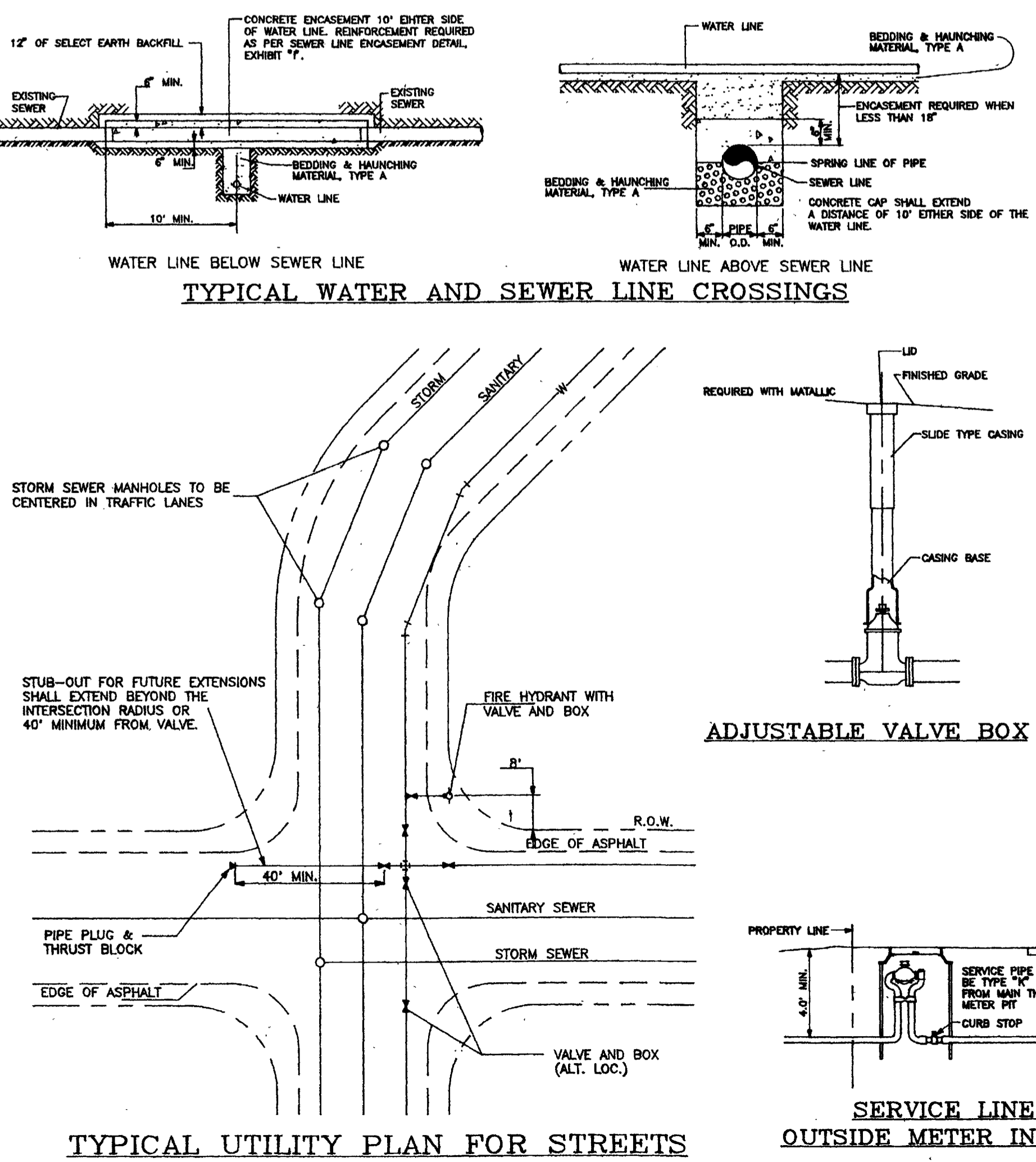
PHILIP M. HART  
 REGISTERED PROFESSIONAL ENGINEER  
 P.E. NO. 19346

SEWER PLAN & PROFILE AND WATER PLAN				
MONUMENT VILLAGE FILING NO. 4 SUBDIVISION				
<b>LANDesign</b>				
ENGINEERS SURVEYORS PLANNERS				
200 NORTH 6TH STREET SUITE 102				
GRAND JUNCTION, COLORADO 81501 (303) 244-6180				
PROJECT NO. 83034	DESIGNED DRAWN	CHECKED	SHEET	OF
DATE: MAY, 1995	MB	RSK	83034SW1	1





**STANDARD CITY SANITARY SEWER DETAILS**



**TABLE FOR CONCRETE THRUST BLOCKING**  
BEARING AREAS (IN SQ. FT.)

SIZE	BENDS				TEES, DEAD ENDS, AND CROSS & DEAD END BRANCHES
	90°	45°	22 1/2°	11 1/2°	
3	1.0	0.6	0.3	0	0.7
4	1.8	1.0	0.5	0	1.3
6	4.0	2.2	1.1	0	2.8
8	7.1	3.8	2.0	1.0	5.0
10	11.1	6.0	3.0	1.5	7.8
12	16.0	8.6	4.4	2.2	11.3
14	21.7	11.8	6.0	3.0	15.4
15	25.0	13.5	7.0	3.5	17.6
16	28.4	15.3	8.0	4.0	20.0
18	36.0	19.4	10.0	5.0	25.4
20	44.2	24.0	12.2	6.1	31.4
21	49.0	26.5	13.5	6.8	34.6
22	54.0	29.0	14.8	7.4	38.0
24	64.0	34.5	17.7	8.8	45.0
30	100.0	54.0	27.6	13.8	71.0
36	144.0	78.0	40.0	20.0	102.0

NOTE: TEE SIZE IS BRANCH SIZE.  
AREAS GIVEN IN TABLE ARE BASED UPON INTERNAL STATIC PRESSURE OF 100 P.S.I. AND SOIL BEARING CAPACITY OF 1,000 LBS. PER SQ. FT.  
BEARING AREAS FOR ANY PRESSURE AND SOIL BEARING CAPACITY MAY BE OBTAINED BY MULTIPLYING TABULATED VALUES BY A CORRECTION FACTOR "F"  
F = ACTUAL SPECIFIED TEST PRESSURE IN HUNDREDS OF LBS. / ACTUAL SOIL BEARING CAPACITY IN THOUSANDS OF LBS.  
SOIL BEARING CAPACITIES SHALL BE DETERMINED BY THE ENGINEER  
ALL WATER LINE PLANS SHALL CONTAIN THE FOLLOWING TABLE, WITH THE VALUES FILLED IN BY THE ENGINEER:

SOIL BEARING CAPACITY	P.S.I.	LBS./SQ. FT.
TEST PRESSURE	---	---
BEARING AREA MULTIPLIER (F)	---	---

**PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES**

SIEVE SIZE	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES		
	PIPE BEDDING & HAUNCHING MATERIAL (TYPE A)	GRANULAR STABILIZATION MATERIAL (SCREENED OR CRUSHED ROCK TYPE B)	PIT RUN AGGREGATE (TO BE USED WHERE SPECIFIED OR DIRECTED BY THE ENGINEER)
8 INCH	---	---	100
2 INCH	---	100	---
1 INCH	100	---	---
NO 4	---	15 MAX	30 MAX
NO 200	20 MAX	---	---

ALL BACKFILL MATERIAL SHALL BE PLACED FULL WIDTH IN 12" MAX. LIFTS AND COMPACTED TO THE MIN. RELATIVE DENSITIES SHOWN  
NOTE: NATIVE MATERIAL MAY BE USED IN LIEU OF GRANULAR BEDDING & HAUNCHING MATERIAL IF APPROVED BY THE CITY ENGINEER AND THE NATIVE MATERIAL IS IN COMPLIANCE WITH SIZE REQUIREMENTS FOR "TYPE A".

**STANDARD CITY EXHIBITS "H" & "I"**

**STANDARD CITY WATER AND SEWER DETAILS**

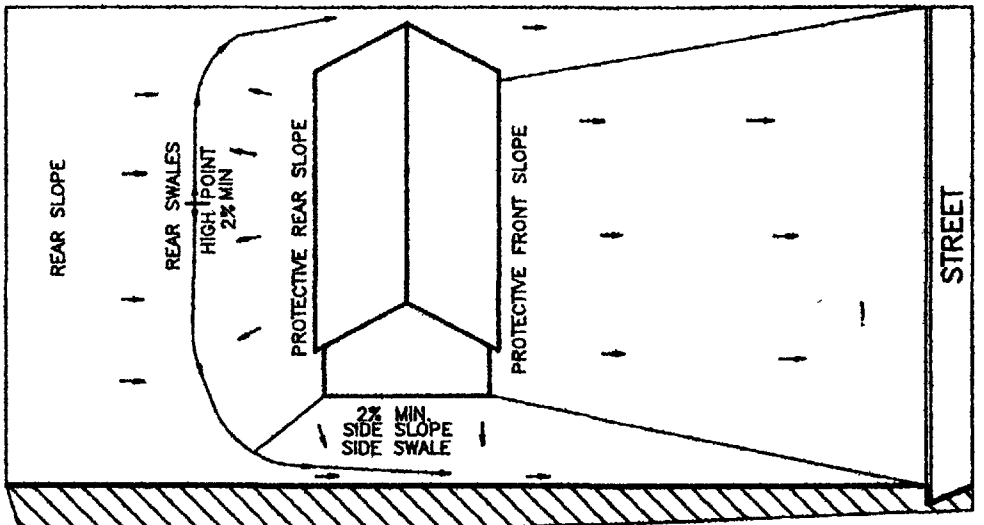
**MONUMENT VILLAGE FILING NO. 4 SUBDIVISION**

**LANDesign, Ltd.**  
ENGINEERS SURVEYORS PLANNERS

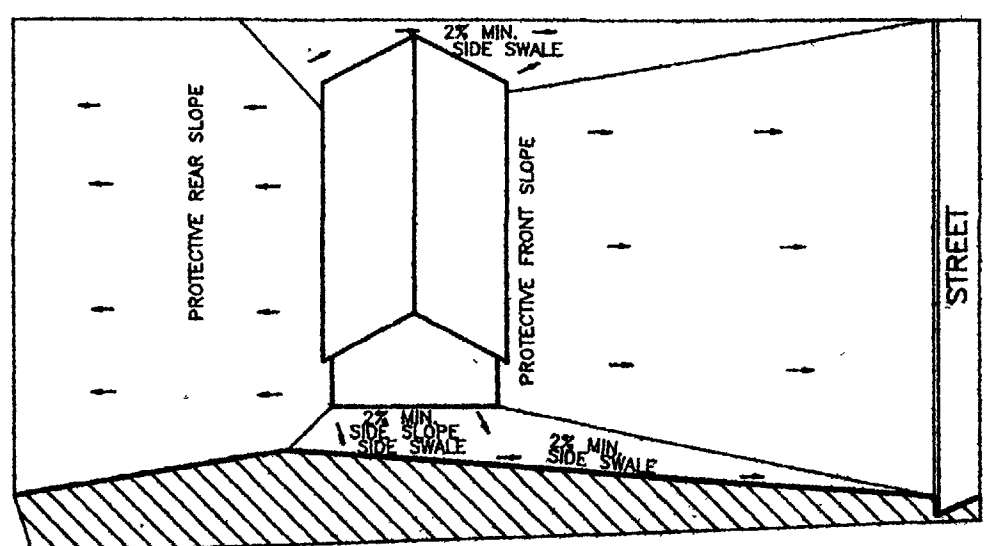
200 NORTH 6TH STREET SUITE 102  
GRAND JUNCTION, COLORADO 81501 (303) 244-8180

PROJECT NO. 93034 DRAWN BY SHEET OF  
DATE: JUNE, 1995 DT3 4

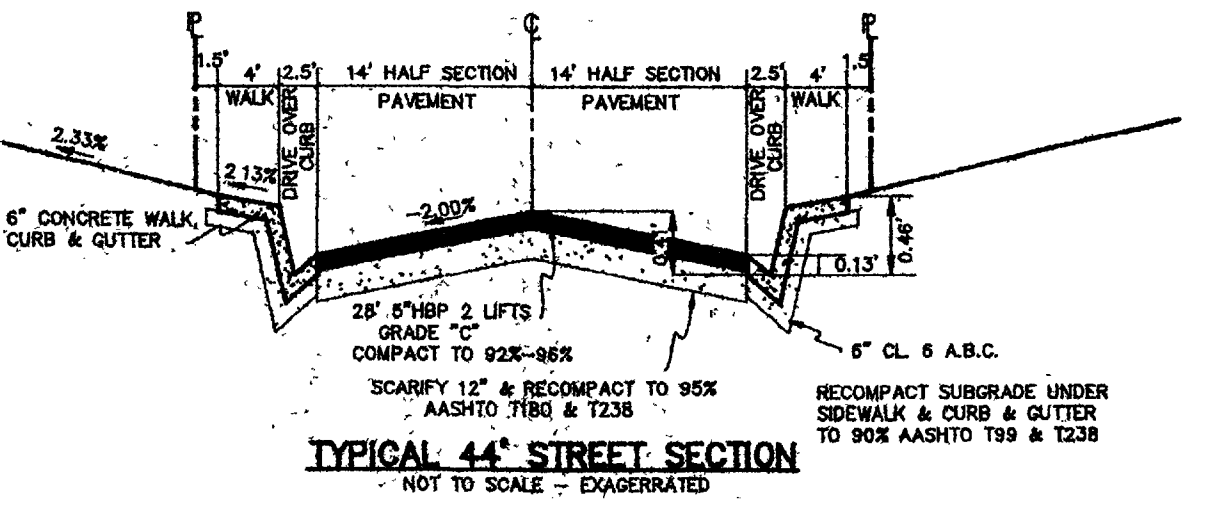
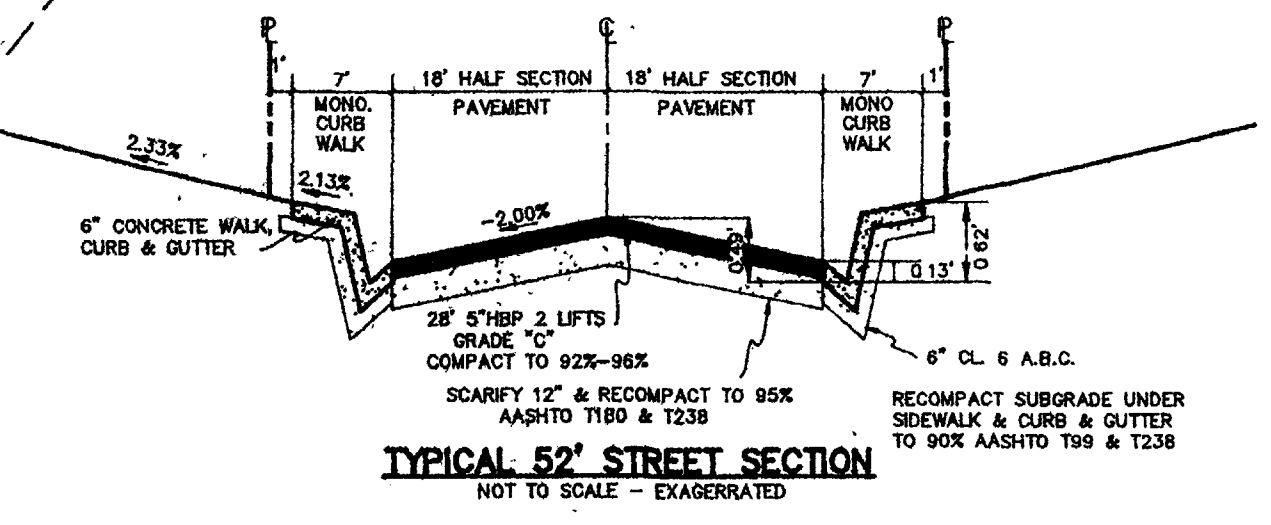
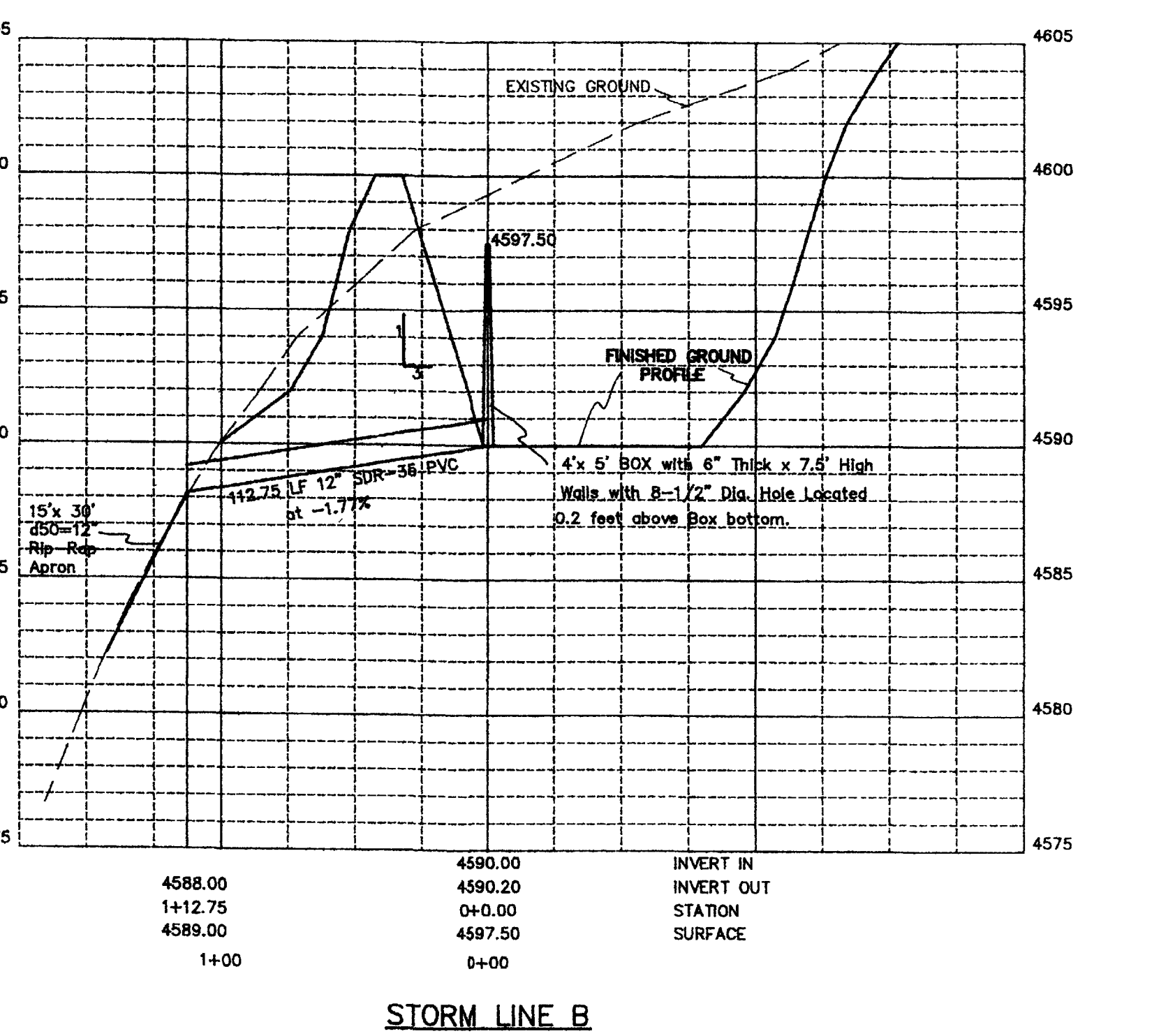
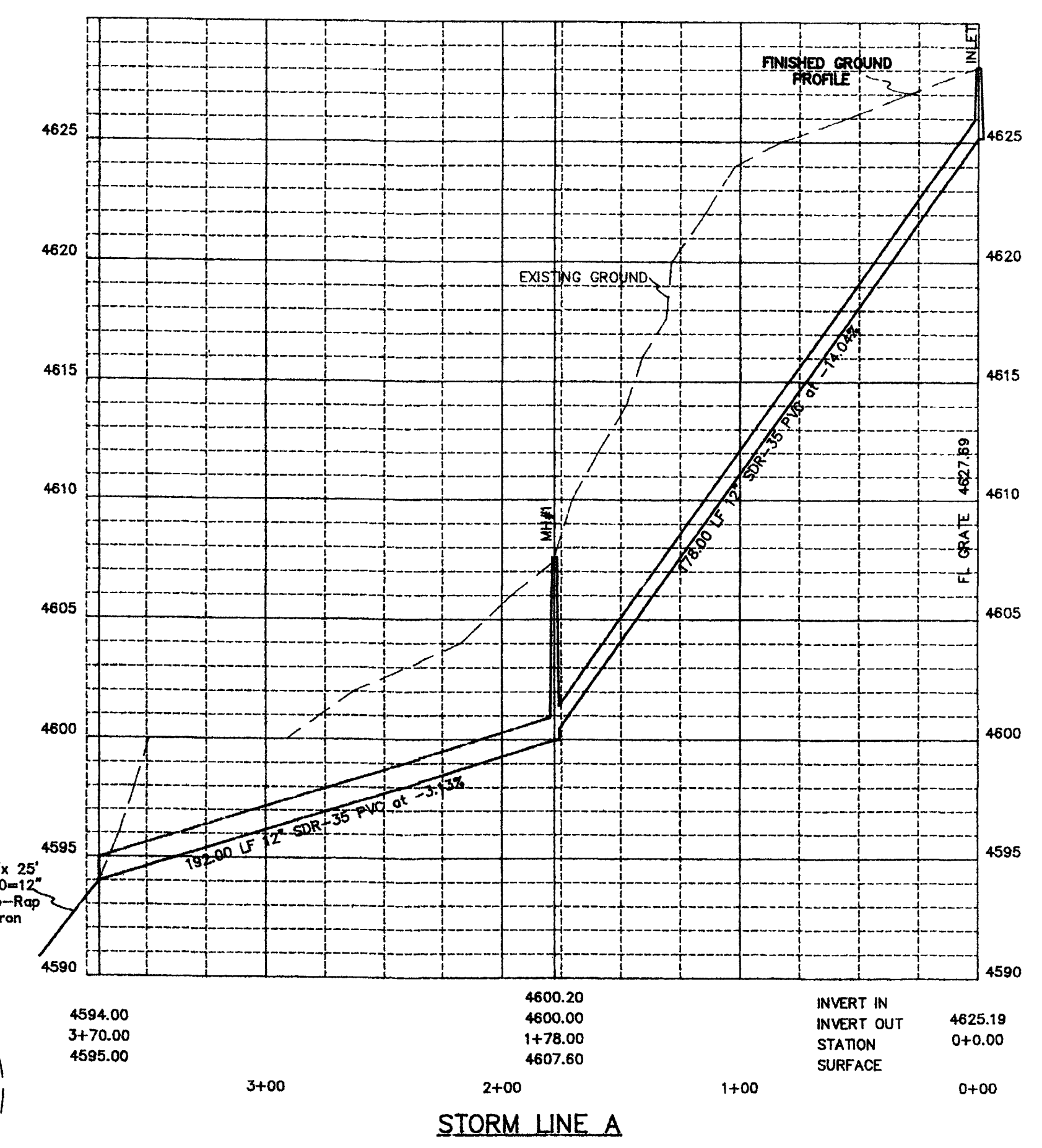
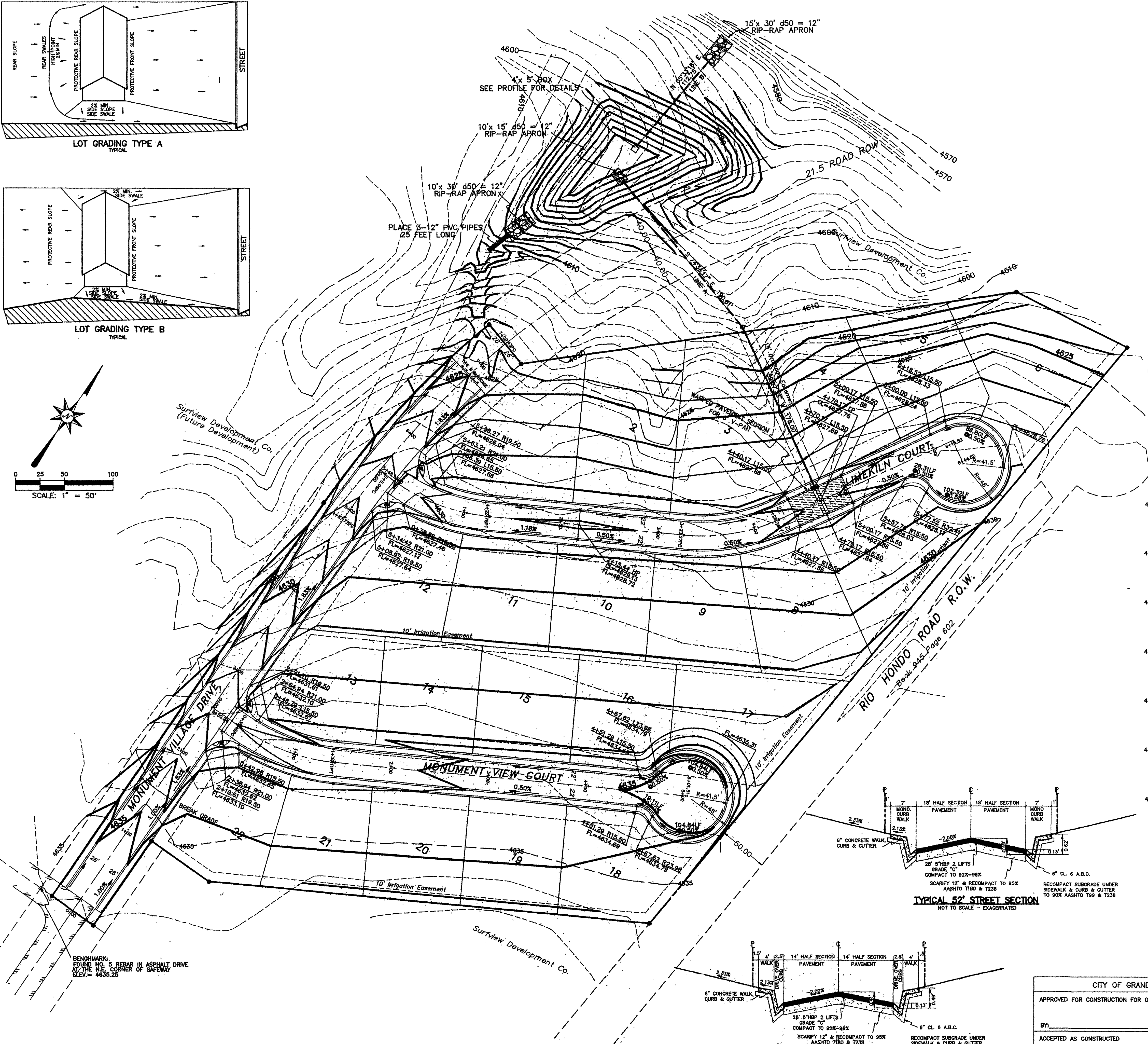
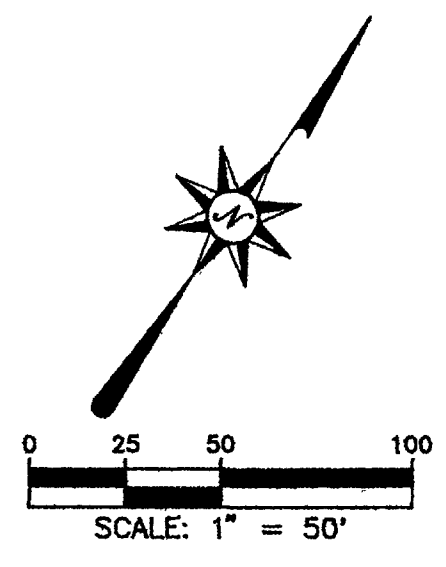
**FOR REVIEW**



LOT GRADING TYPE A  
TYPICAL



LOT GRADING TYPE B  
TYPICAL



CITY OF GRAND JUNCTION  
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BY: \_\_\_\_\_ DATE: \_\_\_\_\_

ACCEPTED AS CONSTRUCTED

BY: \_\_\_\_\_ DATE: \_\_\_\_\_

PHILIP M. HART  
REGISTERED PROFESSIONAL ENGINEER  
P.E. NO. 19346

GRADING & DRAINAGE  
MONUMENT VILLAGE  
FILING NO. 4  
SUBDIVISION  
**LANDesign**  
ENGINEERS SURVEYORS PLANNERS  
200 NORTH 6TH STREET SUITE 102  
GRAND JUNCTION, COLORADO 81501 (303) 244-9180  
PROJECT NO. 93034 DESIGNED DRAWN CHECKED SHEET OF  
DATE: MAY, 1995 MB/MS RSK 93034G01 1

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