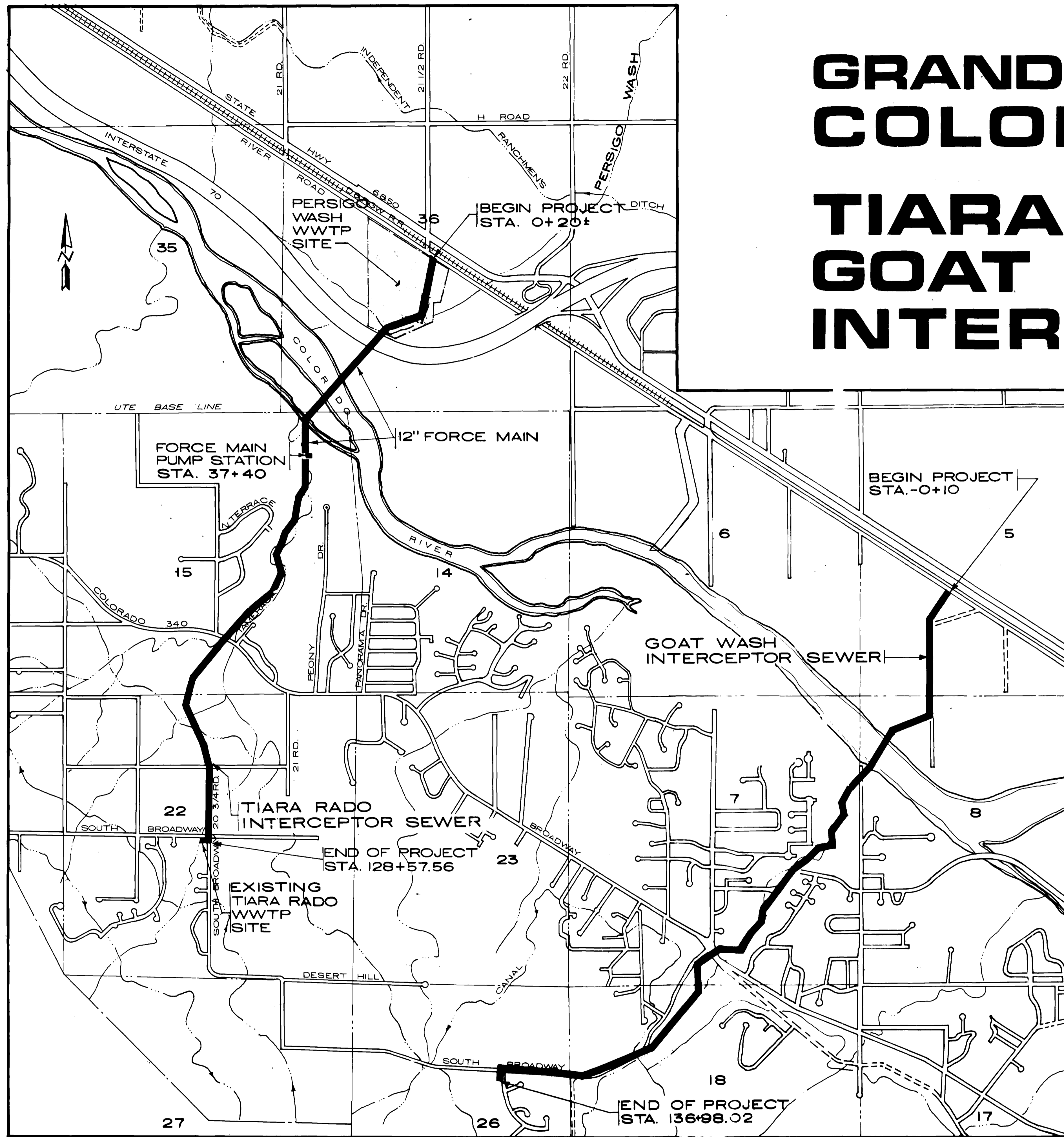


GRAND JUNCTION / MESA COUNTY COLORADO

TIARA RADO AND GOAT WASH INTERCEPTOR SEWERS



INDEX OF DRAWINGS

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TIARA RADO INTERCEPTOR SEWER	
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2	LOCATION MAP AND OVERALL PROFILE
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4	PLAN AND PROFILE 16+00 TO 34+00
5	PLAN AND PROFILE 34+00 TO 52+50
6	PLAN AND PROFILE 52+50 TO 71+00
7	PLAN AND PROFILE 71+00 TO 89+50
8	PLAN AND PROFILE 89+50 TO 108+00
9	PLAN AND PROFILE 108+00 TO 123+50
10	PLAN AND PROFILE 123+50 TO 128+64 END OF LINE
11	LIFT STATION ACCESS ROAD-PLAN AND PROFILE
GOAT WASH INTERCEPTOR SEWER	
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13	PLAN AND PROFILE -0+10 TO 16+50
14	PLAN AND PROFILE 16+50 TO 29+50
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16	PLAN AND PROFILE 46+00 TO 63+00
17	PLAN AND PROFILE 63+00 TO 80+00
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19	PLAN AND PROFILE 98+00 TO 114+50
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21	PLAN AND PROFILE 131+00 TO 136+98 END OF LINE
22	MISCELLANEOUS DETAILS
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25	PLAN AND PROFILE 167+54.93 TO 176+28.93 REDLANDS PARKWAY
26	PIPE SUPPORTS AT REDLANDS PARKWAY BRIDGE - PLANS
27	ELECTRICAL DETAILS

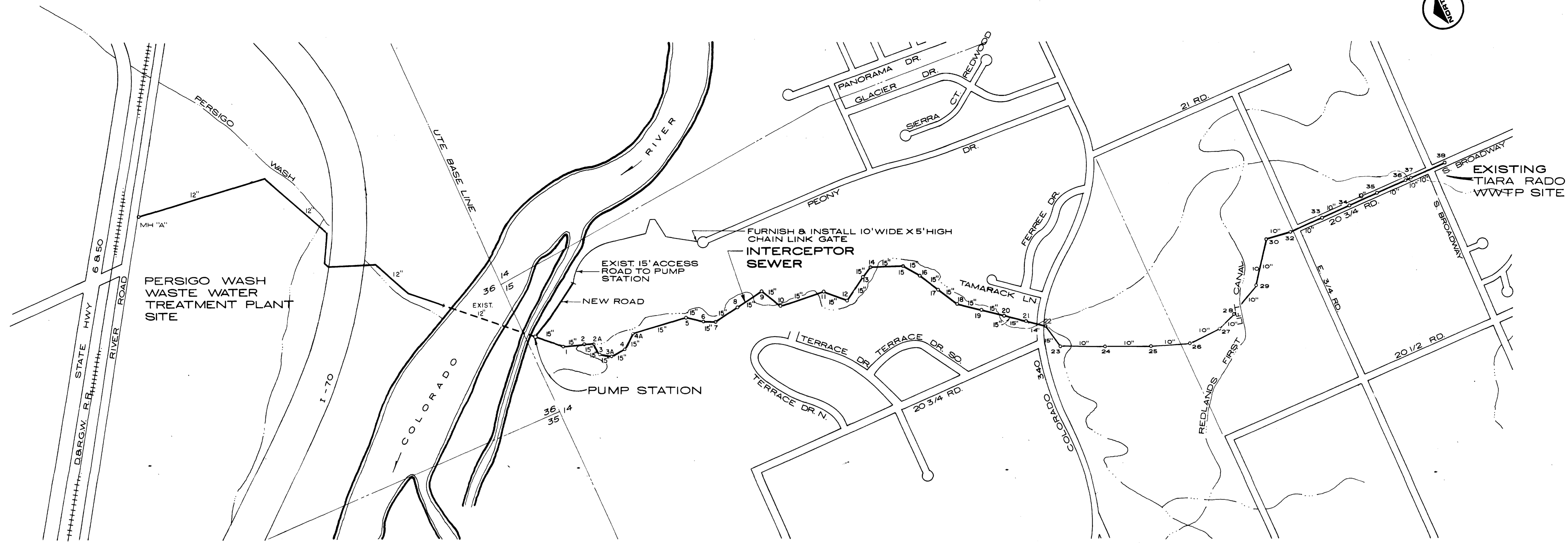
VICINITY MAP
SCALE 1" = 1000'

APPROVED BY: *[Signature]* DATE 12/14/82
CITY OF GRAND JUNCTION,
MESA COUNTY, STATE OF COLORADO

HENNINGSON, DURHAM & RICHARDSON, INC.
HDR ENGINEERING ARCHITECTURE PLANNING
OF COLORADO
GRAND JUNCTION & DENVER

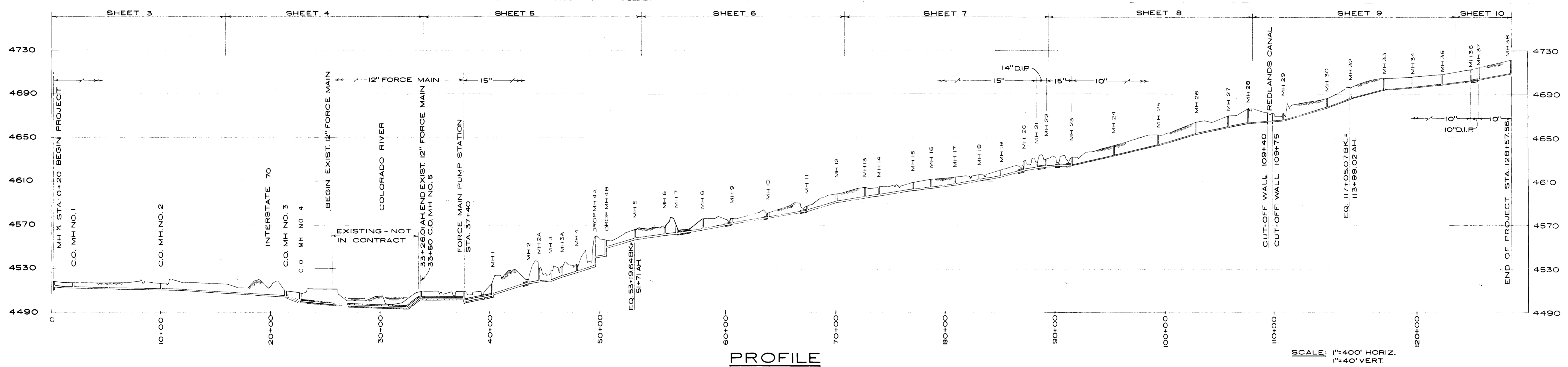


AS-BUILT 1/30/84 DY



PLAN

SCALE 1" = 400'



PROFILE

SCALE: 1" = 400' HORIZ.
1" = 40' VERT.

GRAND JUNCTION / MESA COUNTY
TIARA RADO
INTERCEPTOR SEWER

LOCATION PLAN &
OVERALL PROFILE

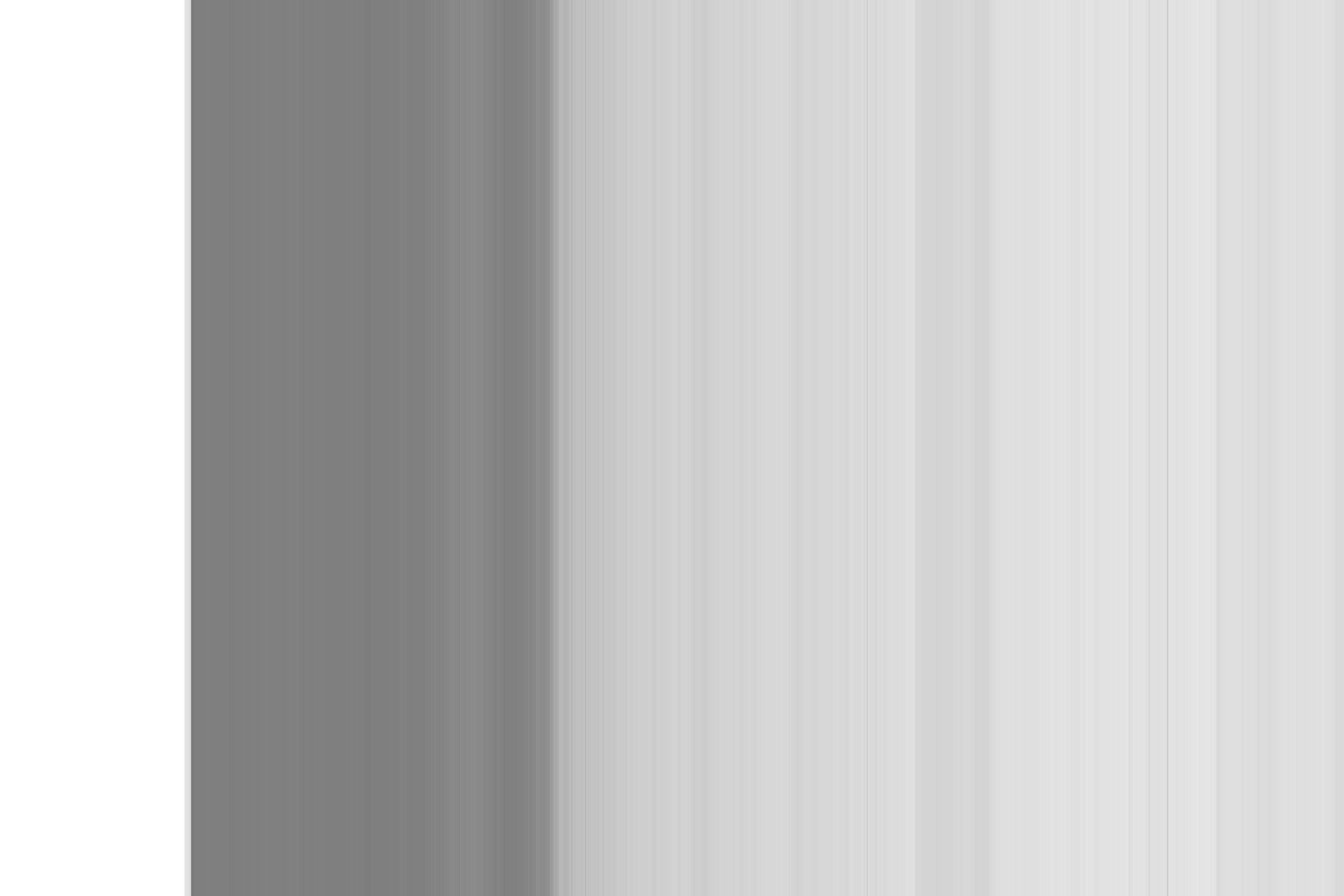


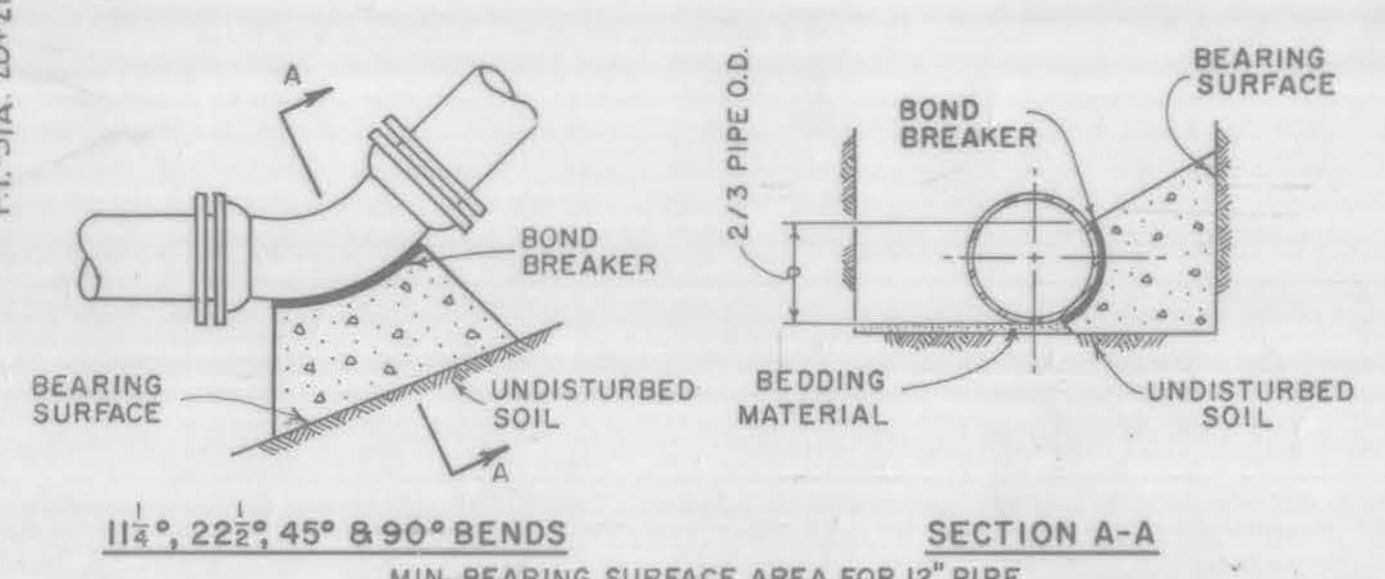
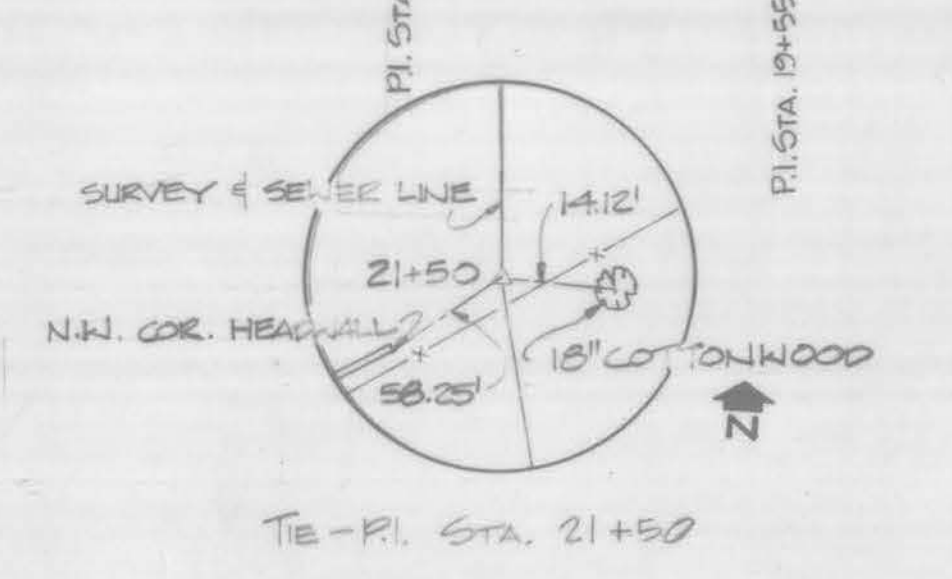
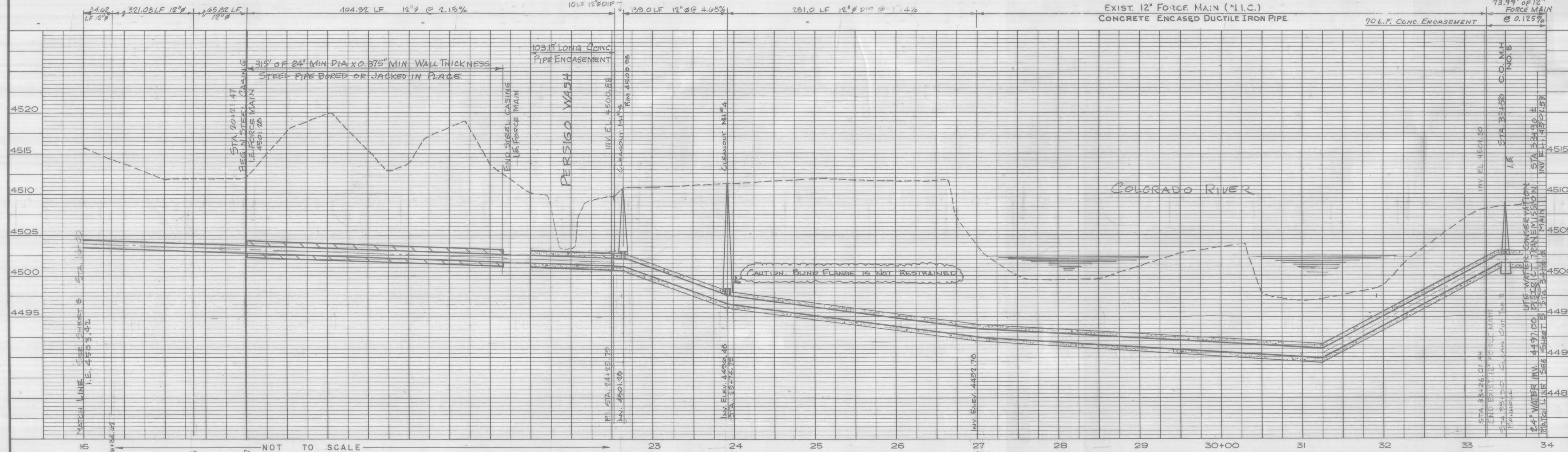
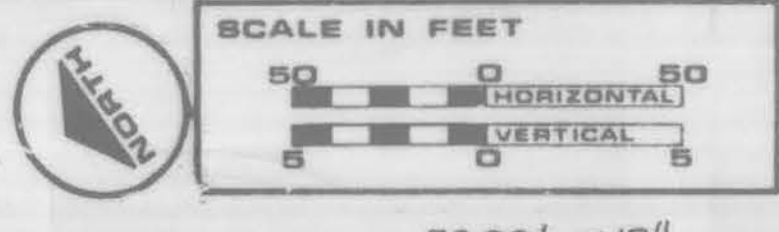
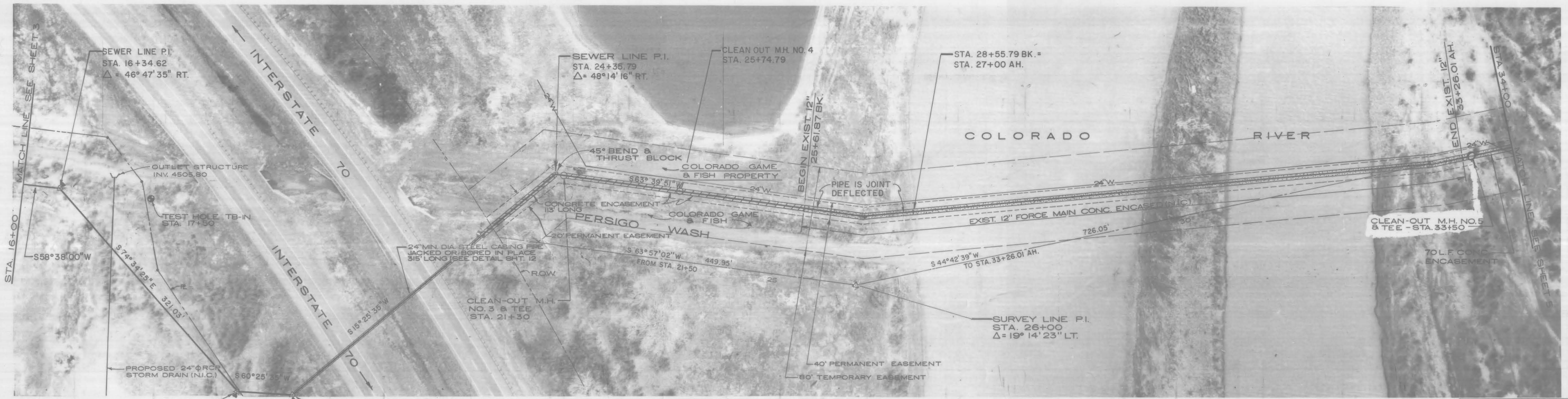
HENNINGSON, DURHAM & RICHARDSON, INC.
ENGINEERS • PLANNERS • CONSULTANTS
DENVER, COLORADO GRAND JUNCTION, COLORADO

1	1/10/04	As-Built		
2				
1				
	DATE	DESCRIPTION	MADE	APPROV

JOB	DESIGNED BY	CHECKED BY	APPROVED BY	DATE	DATE
73-50-10	B. STOKES	P. STOKES	K. HENNINGSON	11/10/04	11/10/04

SHEET 2 OF 27





SECTION A-A
MIN. BEARING SURFACE AREA FOR 12" PIPE
0.25 SQUARE FEET
TYPICAL THRUST BLOCK DETAIL

GRAND JUNCTION / MESA COUNTY
TIARA RADO INTERCEPTOR SEWER
PLAN & PROFILE
STA. 16+00 TO STA. 34+00



HENNINGSON, DURHAM & RICHARDSON, INC.
ENGINEERING · ARCHITECTURE · PLANNING
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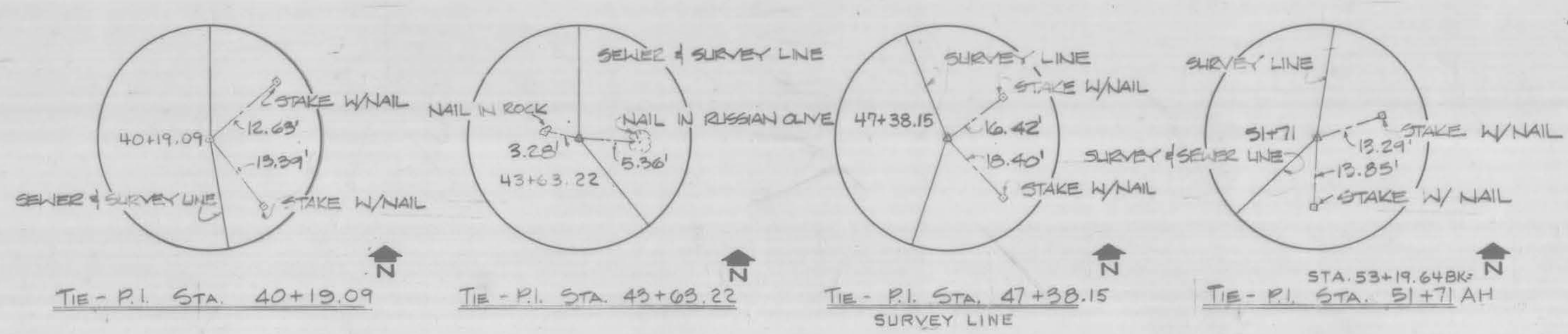
NO.	DATE	DESCRIPTION	MADE	APPROV.
1	1/30/64	AS-BUILT	DY	JEA
2				
3				

JOB: 73-50-10
DESIGNED: R. STOKES
CHECKED: D. STOKES
APPROVED: H. HENNINGSON
DATE: 12 MAY 1962



APPROXIMATE LOCATION OF PROPOSED DAM. DAM MAY BE IN PLACE AT TIME OF CONSTRUCTION AND PONDING WATER.

SCALE IN FEET
 0 10 20 HORIZONTAL
 0 5 10 VERTICAL



GENERAL NOTES:
 1. MANHOLE RIM IN AREAS OTHER THAN ROAD & DEVELOPED AREAS SHALL BE 15' ABOVE GRADE.

GRAND JUNCTION / MESA COUNTY
TIARA RADO
INTERCEPTOR SEWER

PLAN & PROFILE
 STA. 34+00 TO STA. 52+50

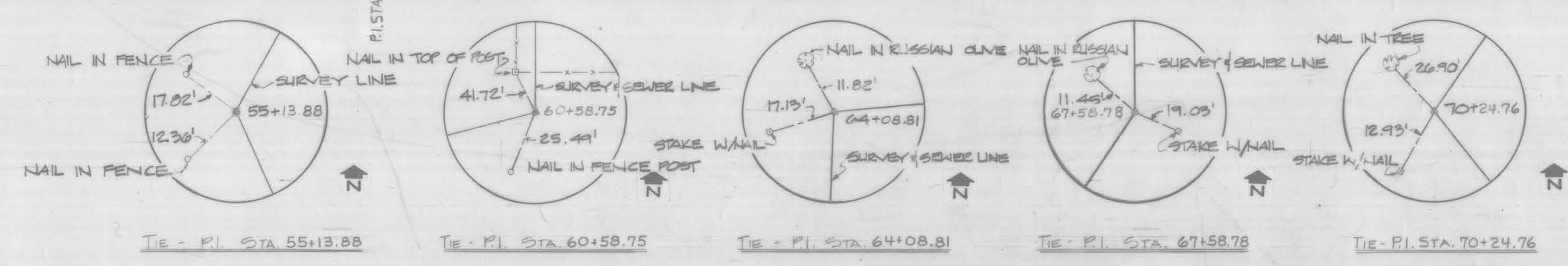
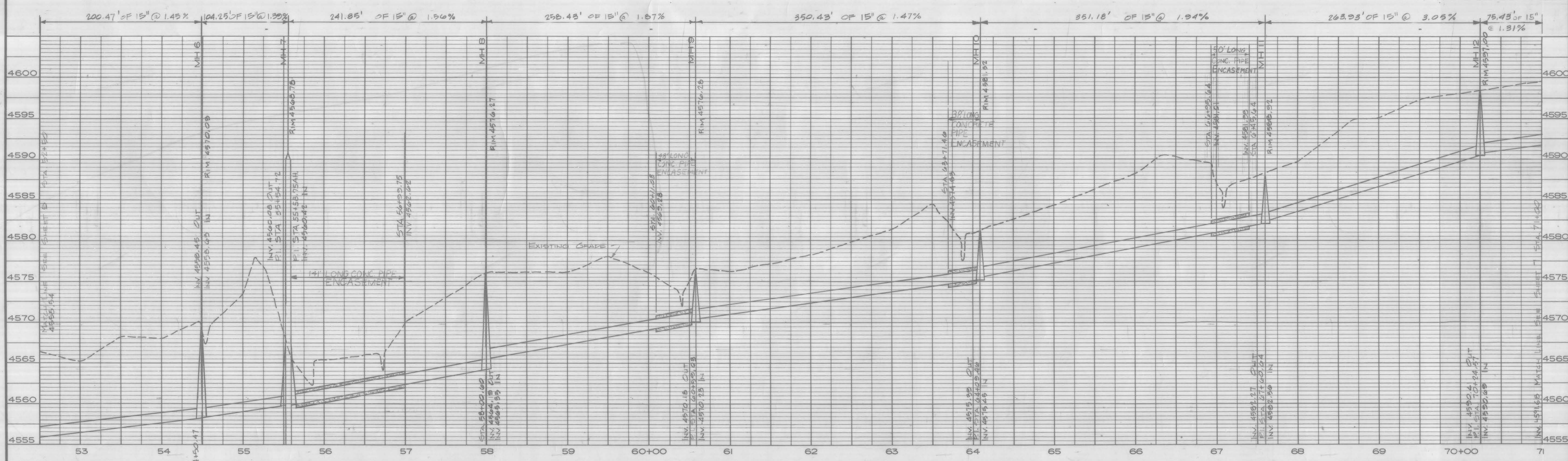
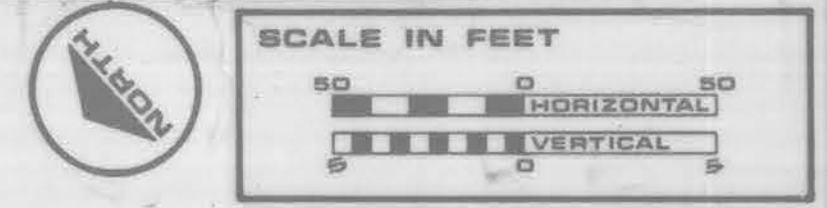
HENNINGSON, DURHAM & RICHARDSON, INC.
 ENGINEERING - ARCHITECTURE - PLANNING
 DENVER, COLORADO GRAND JUNCTION, COLORADO

JOB NO. 73-50-10
 DESIGNER: B. STOKES
 CHECKED: S. STOKES
 APPROVED: S. HENNINGSON
 DATE: 10 MAY 1992

NO.	DATE	DESCRIPTION	BY	APPROV.
1	1/17/92	AS BUILT	JED	JED
2	5/8/92	(CONSTRUCTION)	AT	JED
3				



NOTE: TEMPORARY HOG WIRE CONSTRUCTION FENCE IS REQ'D WHEN CROSSING PRIVATE PROPERTY EXCEPT AS OTHERWISE NOTED.



NOTES:
 1. SEE ABOVE
 2. SEE ABOVE
 3. MCKELVEY PROPERTY: CONTRACTOR SHALL PROTECT 12" WELL. REPAIR OR REPLACE IF DAMAGED.



GRAND JUNCTION / MESA COUNTY
TIARA RADO
 INTERCEPTOR SEWER

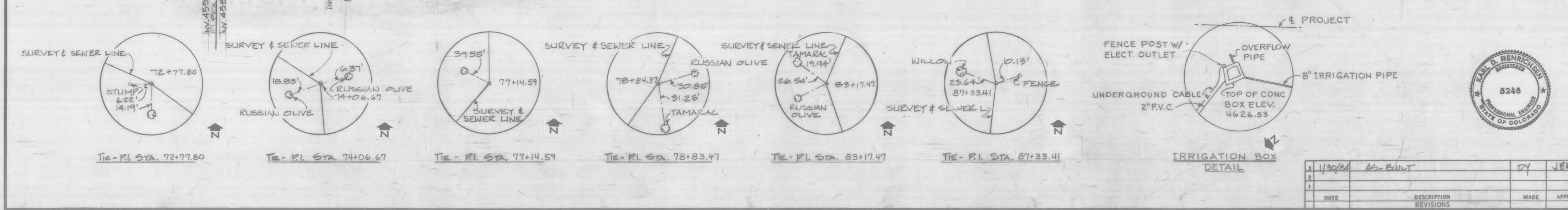
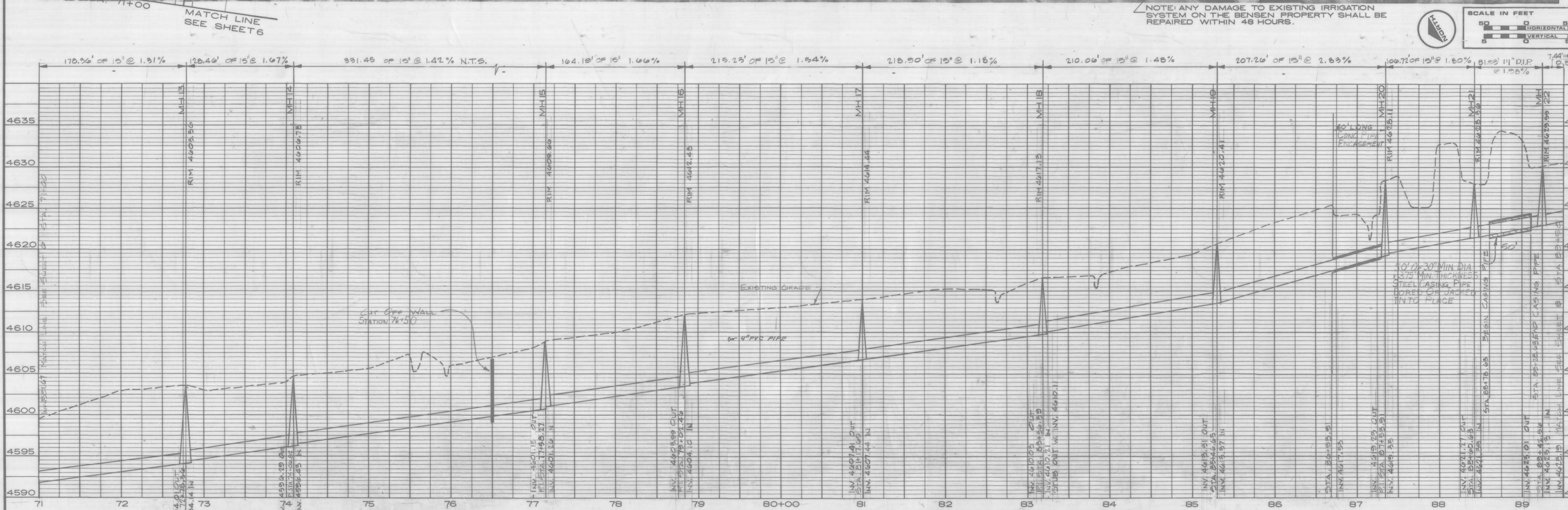
PLAN & PROFILE
 STA. 52+50 TO STA. 71+00

HENNINGSON, DURHAM & RICHARDSON, INC.
 ENGINEERING - ARCHITECTURE - PLANNING
 DENVER, COLORADO

DATE	DESCRIPTION	MADE	APPROVED
11/30/04	AS-BUILT	DY	JEA

JOB: 73-5-10
 DESIGNED: B. STOKES
 CHECKED: J. STOKES
 APPROVED: D. HENRICHSEN
 DETAILED: D. YOUNGBERG
 DATE: 06/04/04

SHEET
6 OF **27**



GRAND JUNCTION / MESA COUNTY
TIARA RADO
INTERCEPTOR SEWER

PLAN & PROFILE
 STA. 71+00 TO STA. 89+50

HINNINGSON, DURHAM & RICHARDSON, INC.
 ENGINEERING · ARCHITECTURE · PLANNING
 DENVER, COLORADO GRAND JUNCTION, COLORADO

DESIGNED BY: R. STOKES
 CHECKED BY: J. STOKES
 APPROVED BY: J. STOKES
 DATE: 13 MAY 1982

7-27

MATCH LINE STA. 89+50
SEE SHT. 7

40 L.F. CONC. ENCASEMENT
S 73° 35' 14" W
25 L.F. CONC. ENCASEMENT

MH 23
STA. 91+64.71
Δ = 53° 14' 07" LT.

REDLANDS PROPERTY

MH 24
STA. 95+63.90
Δ = 0° 15' 54" LT.

MH 25
STA. 99+64.78
Δ = 4° 31' 11" LT.

MH 26
STA. 103+04.98
Δ = 20° 55' 54" LT.

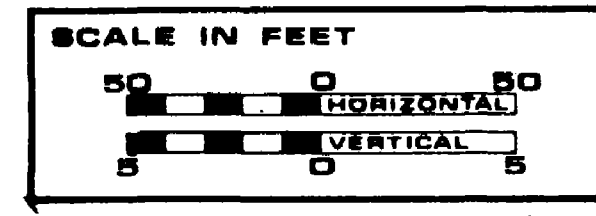
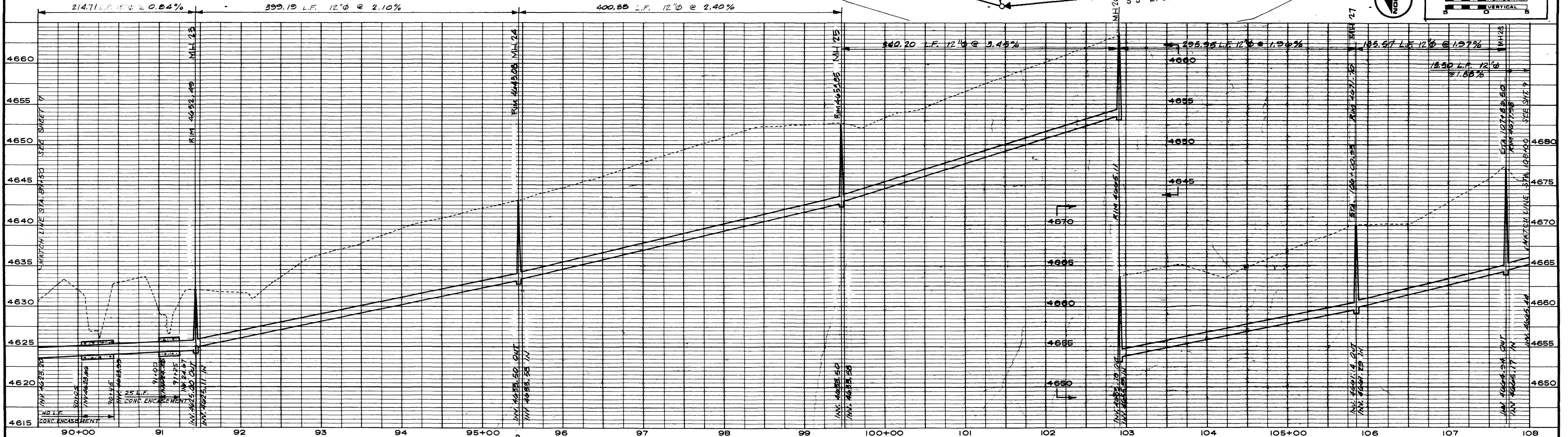
MH 27
STA. 106+00.93
Δ = 18° 05' 15" LT.

MH 28
STA. 107+86.50
Δ = 7° 20' 38" LT.

MATCH LINE STA. 108+00
SEE SHT. 9

NOTES
FROM STATION 89+05 TO STATION 114+30, THE FOLLOWING SPECIFICATIONS APPLY:

- A. BACKFILL SHALL BE PLACED TO ROADWAY SPECIFICATIONS.
- B. RIM ELEVATIONS OF MANHOLES NO. 22, 23, 24, 25, 26, 27, 28, 29, 30, AND 31 SHALL BE SET TO ELEVATIONS PROVIDED BY THE ENGINEER. IN GENERAL, THEY WILL BE SET APPROXIMATELY AT THE EXISTING GRADE, ± ONE FOOT.
- C. FROM THE CONSTRUCTION AREA, CONTRACTOR SHALL REMOVE THE TOP SIX (6") OF SOIL AND PLACE IN THE "SITE FOR CLEAN FILL MATERIAL" ON THE NORTH SIDE OF E 3/4 ROAD AS DIRECTED BY THE ENGINEER.
- D. ALL SURPLUS EXCAVATED MATERIAL SHALL BE PLACED IN THE "SITE FOR CLEAN FILL MATERIAL" AS DIRECTED BY THE ENGINEER.
- E. BACKFILL SHALL BE PLACED TO AN ELEVATION SIX (6) INCHES BELOW EXISTING GRADE.
- F. NATIVE GRASS SHALL NOT BE PLACED ON RESTORED AREA.

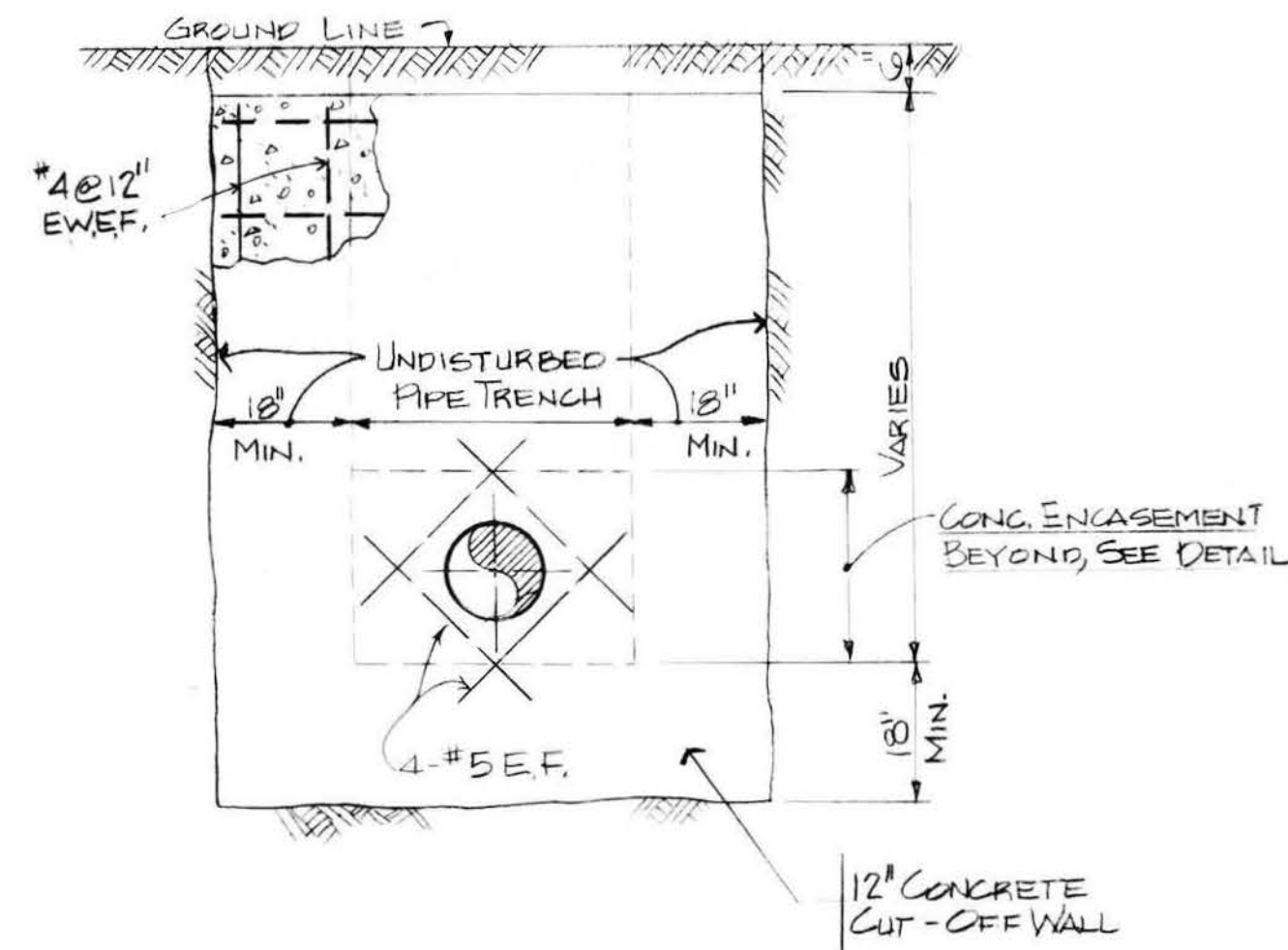


GRAND JUNCTION / MESA COUNTY
TIARA RADO
INTERCEPTOR SEWER
PLAN & PROFILE
STA. 89+50 TO STA. 108+00

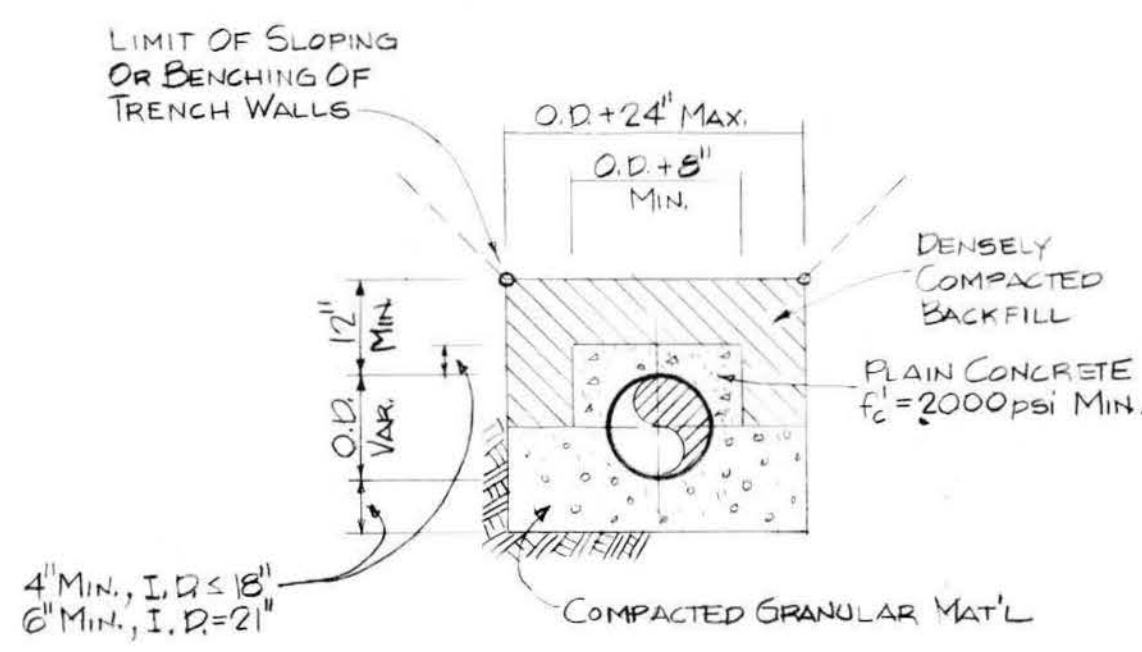


HENNINGSON, DURHAM & RICHARDSON, INC.
ENGINEERING - ARCHITECTURE - PLANNING
DENVER, COLORADO
DESIGNED: R. STOKES
CHECKED: J. STOKES
APPROVED: K. HENNRICHSEN
DATE: 16 MAY 1982
SHEET 8 OF 27

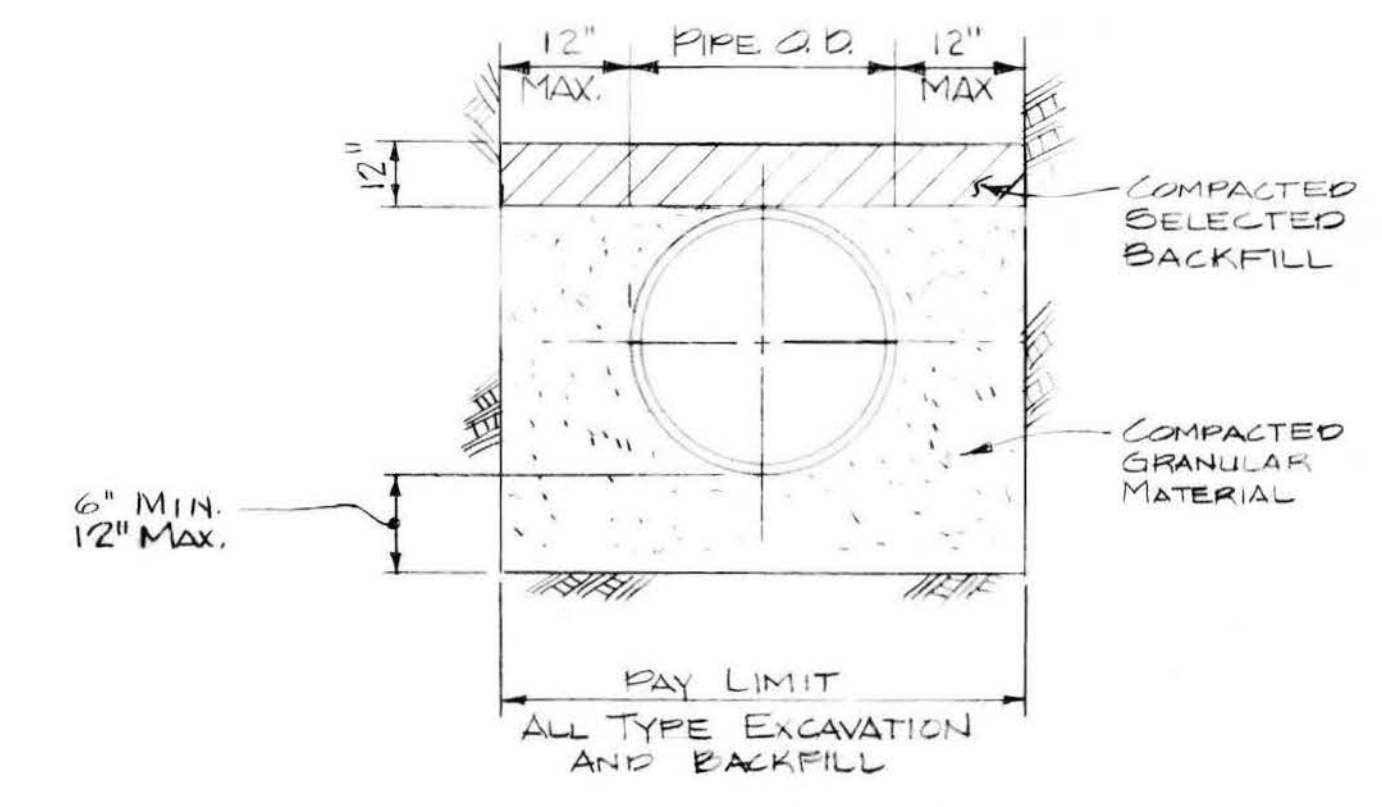
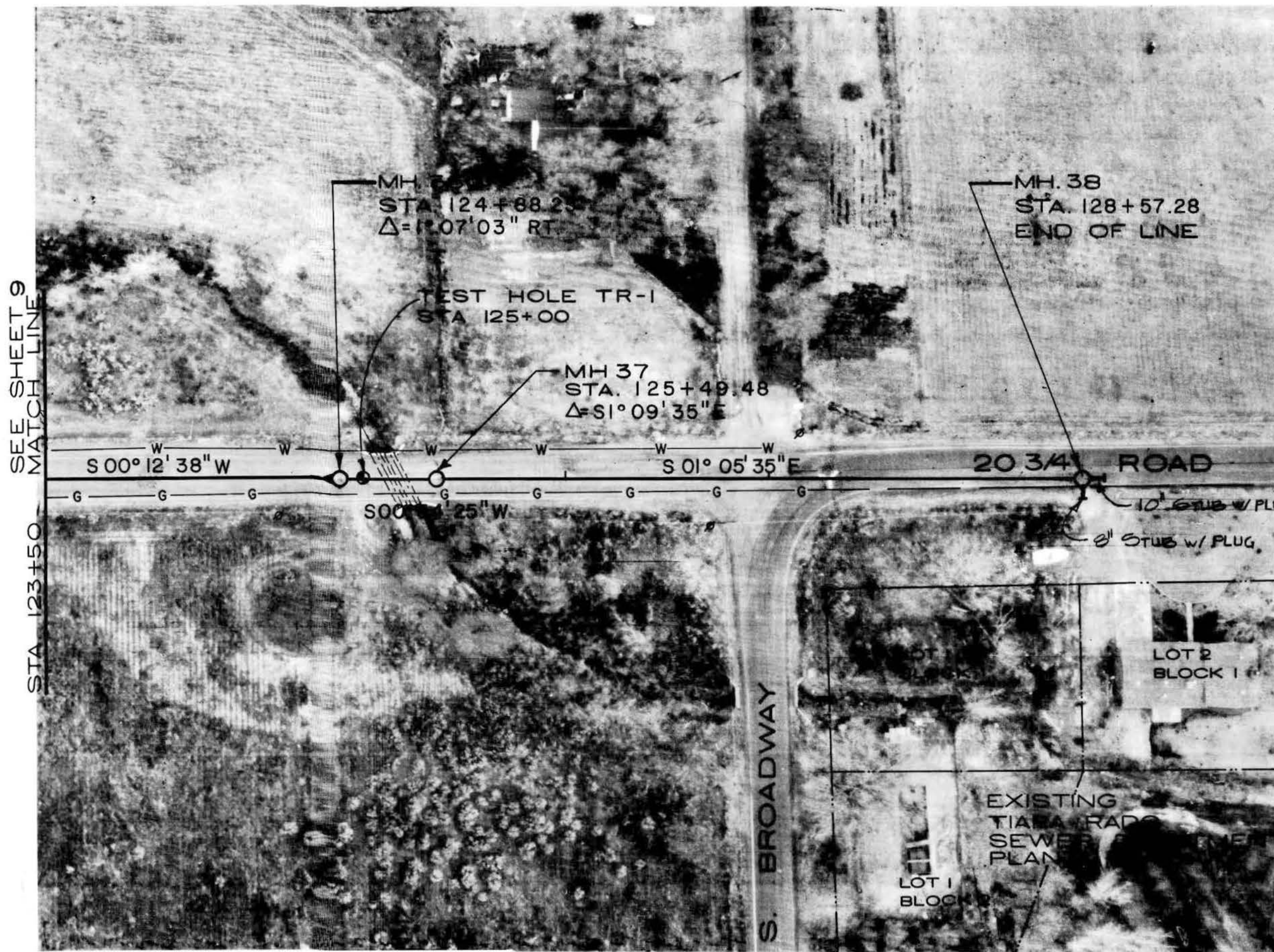
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TYPICAL CUT-OFF WALL
NO SCALE



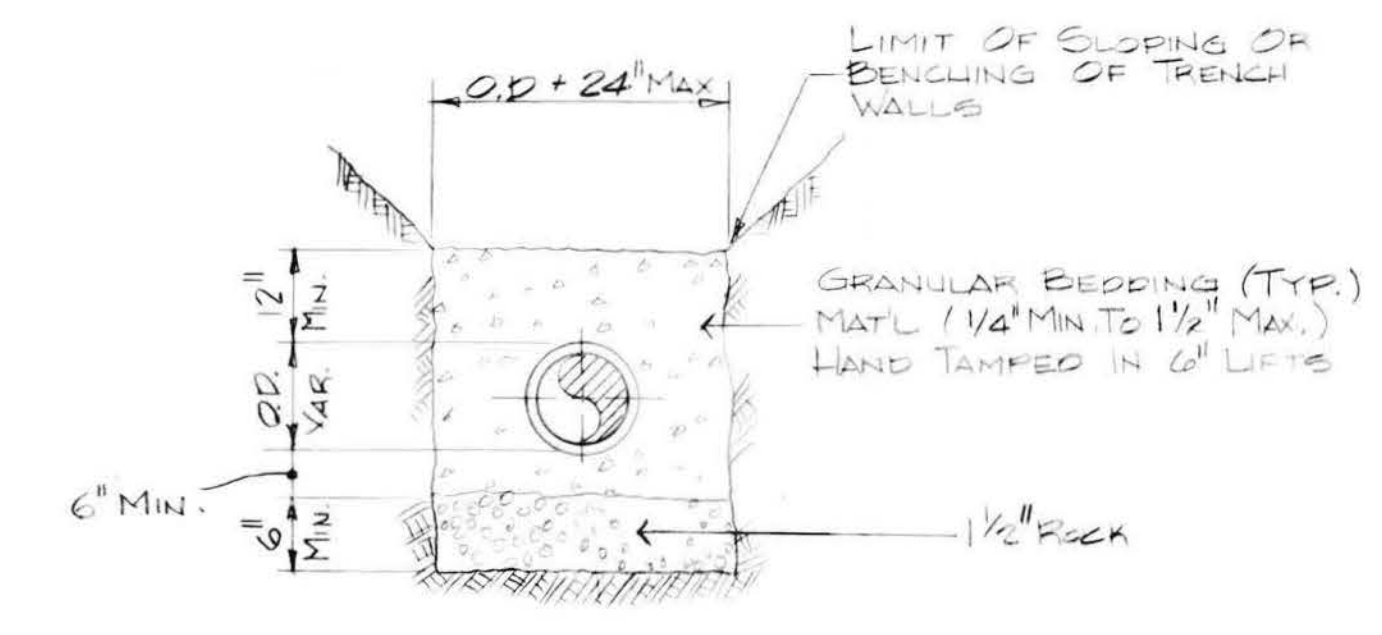
CONCRETE ARCH
LOAD FACTOR = 2.8
TYPICAL CLASS "A"
BEDDING REQUIREMENTS
NO SCALE



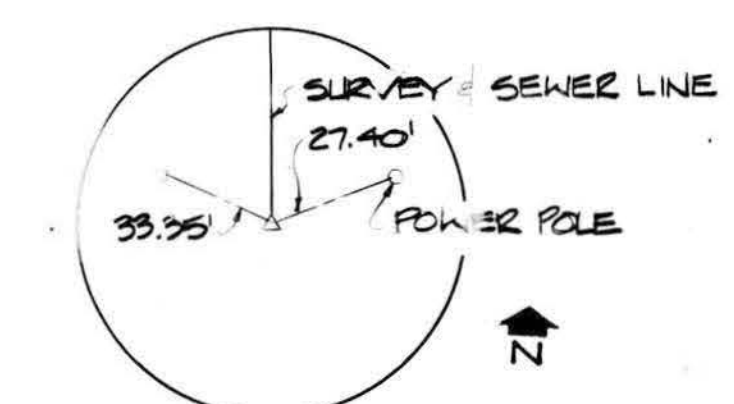
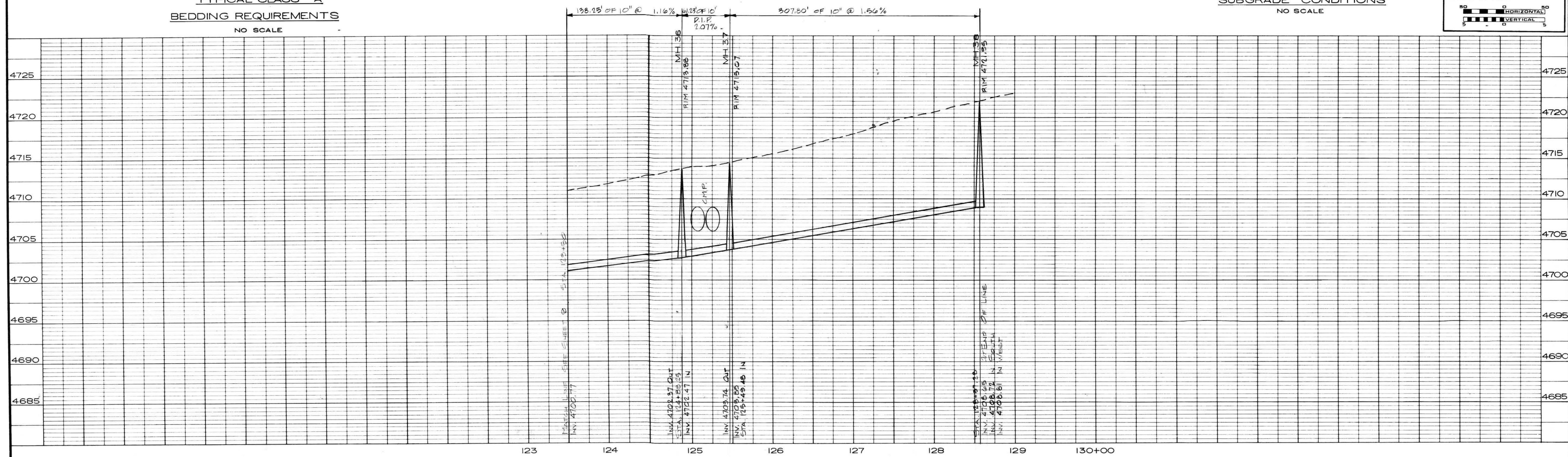
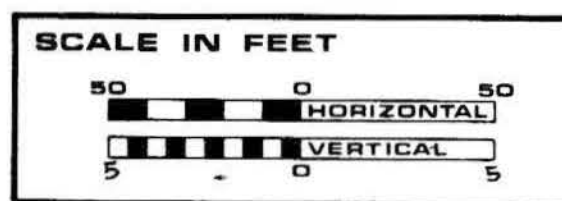
CLASS "B" PIPE BEDDING
NO SCALE
TYPICAL UNLESS OTHERWISE NOTED

1/2 PIPE	GROUND LEVEL TO PIPE INV. DEPTH
8"	20'
10"	18'
12"	16'
15"	15'
18"	15'

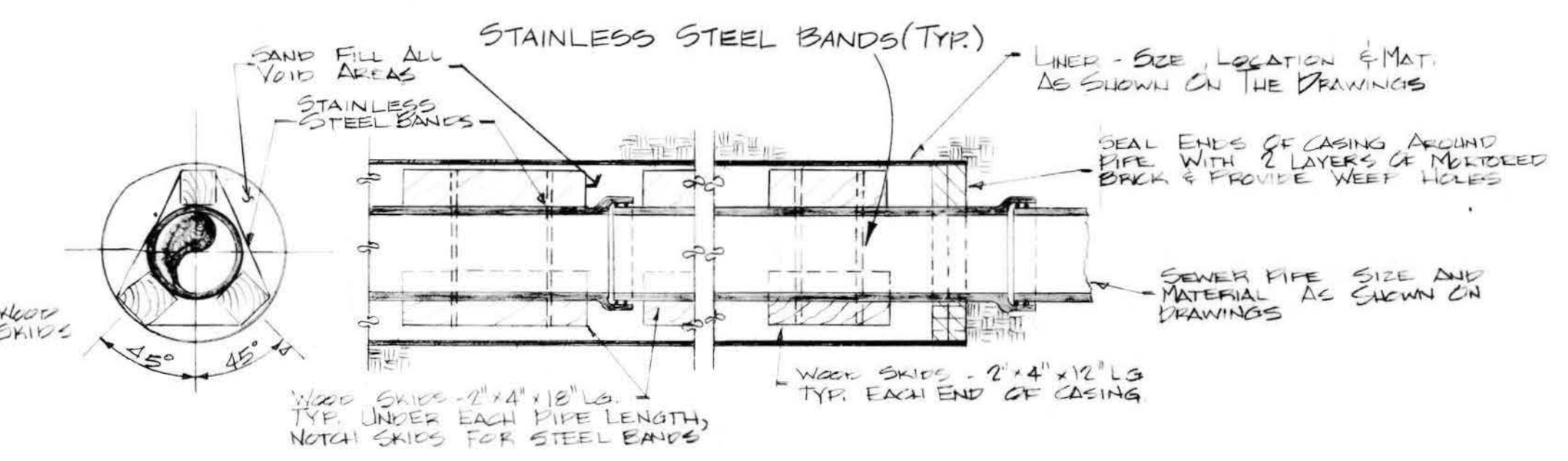
NOTE: USE CLASS "A" BEDDING IF DEPTHS EXCEED THESE VALUES.



TRENCH & BEDDING REQUIREMENTS FOR UNSTABLE SUBGRADE CONDITIONS
NO SCALE



IE-R1 STA. 127+50



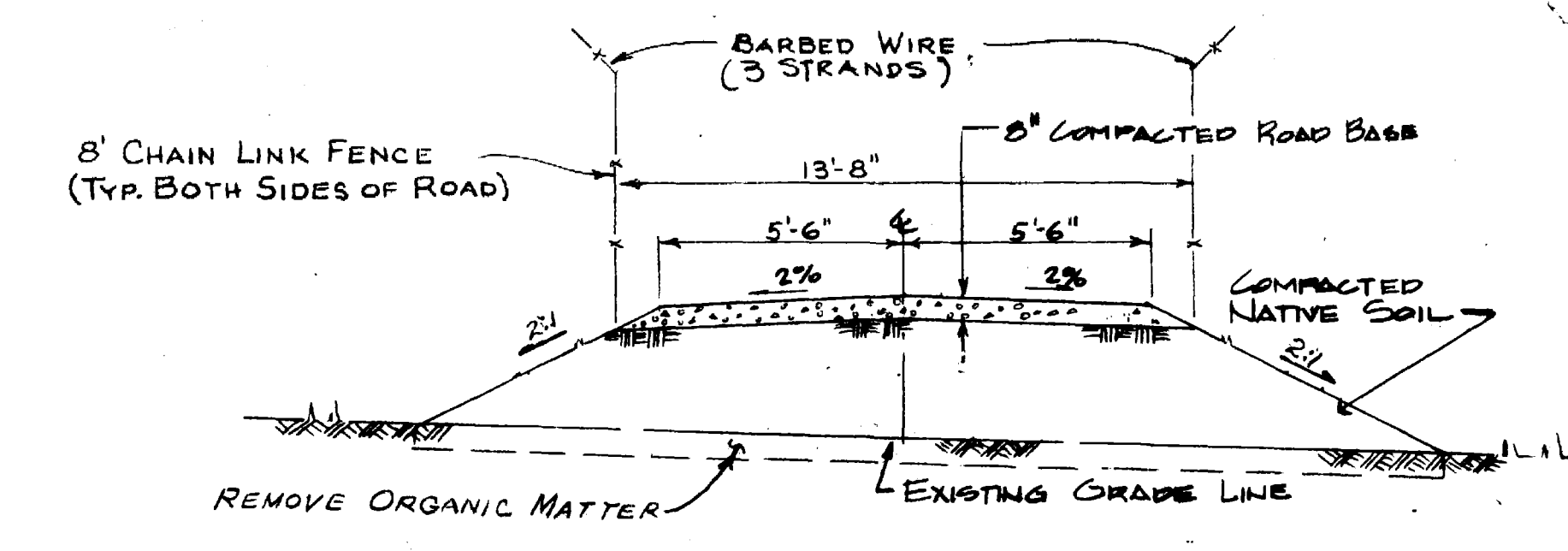
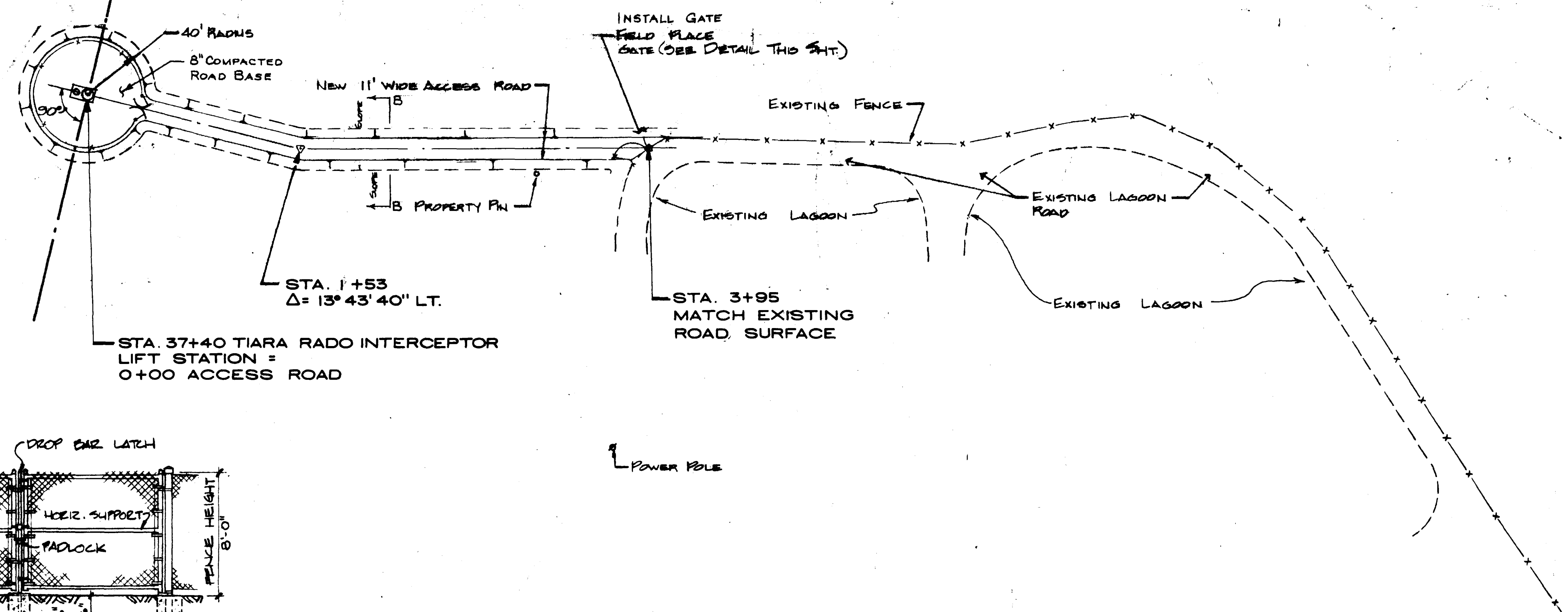
TYPICAL PIPE CASING DETAIL
NO SCALE



GRAND JUNCTION / MESA COUNTY
TIARA RADO
INTERCEPTOR SEWER
PLAN & PROFILE
STA. 123+50 TO STA. 128+64EOL

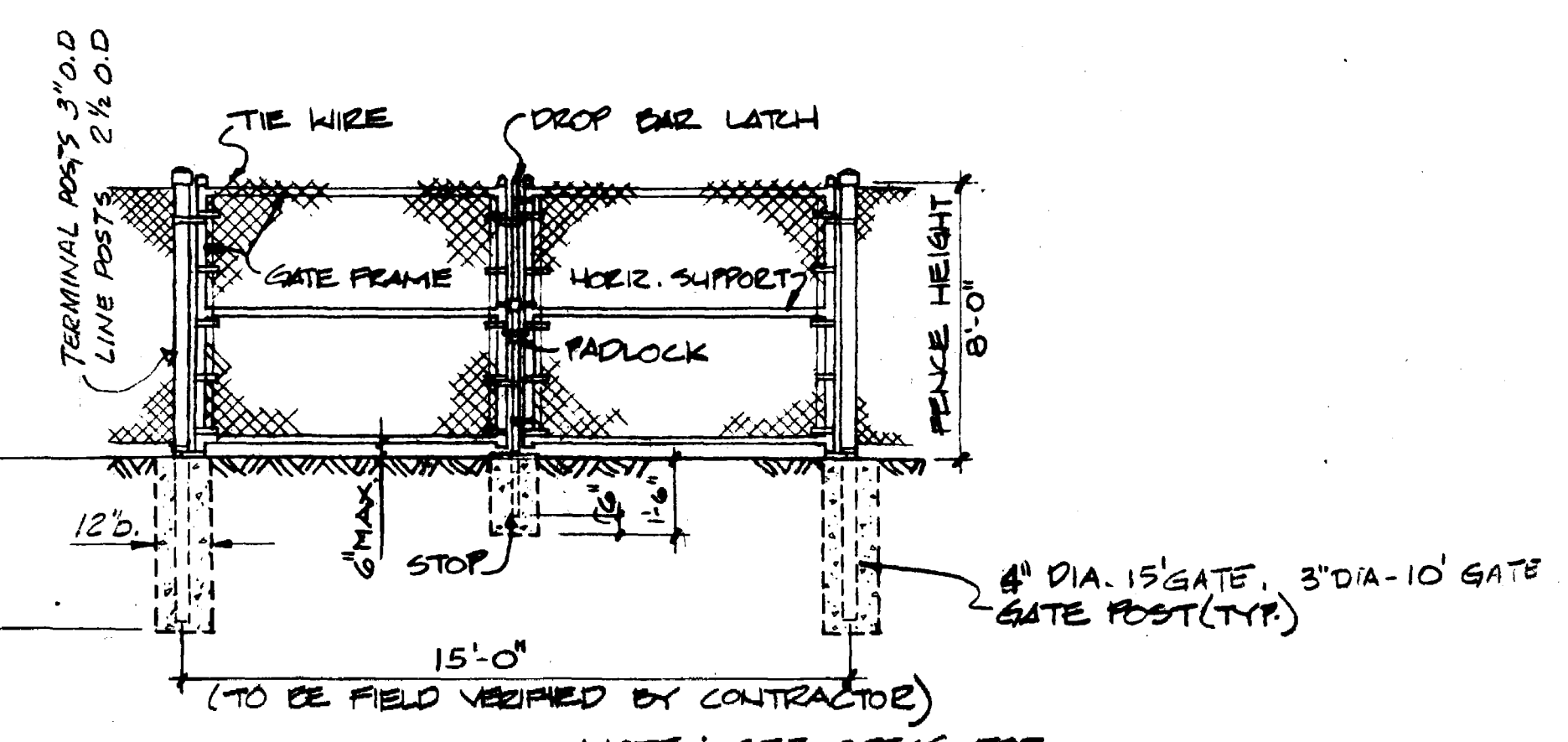
HENNINGSON, DURHAM & RICHARDSON, INC.
ENGINEERING - ARCHITECTURE - PLANNING
DENVER, COLORADO GRAND JUNCTION, COLORADO
DESIGNED: D. STOKES
CHECKED: S. STOKES
APPROVED: D. HENNINGSON
DATE: 12 MAY 1992
SHEET 10 OF 27

NO.	DATE	DESCRIPTION	MADE	APPROV.
1	1/20/04	AS-BUILT	DY	LSB



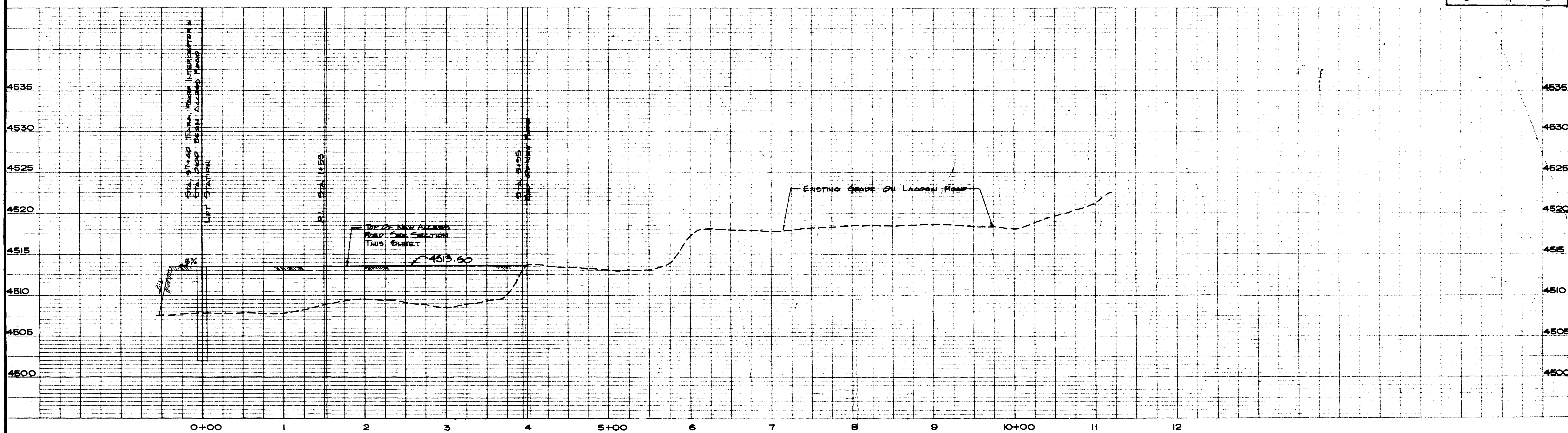
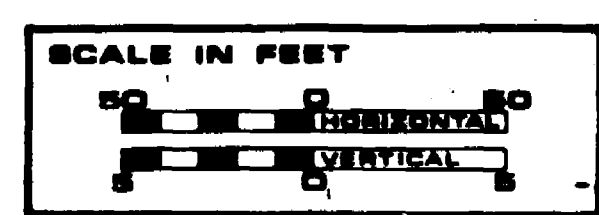
SECTION 'B-B', PUMP STATION ROAD CROSS - SECTION
NO SCALE

3' MIN. GATE, PULL & CORNER POSTS
2 1/2' MIN. FOR LINE POSTS



NOTE: SEE SPECS FOR ADDITIONAL INFORMATION.

CHAIN LINK FENCE - GATE DETAIL
NO SCALE



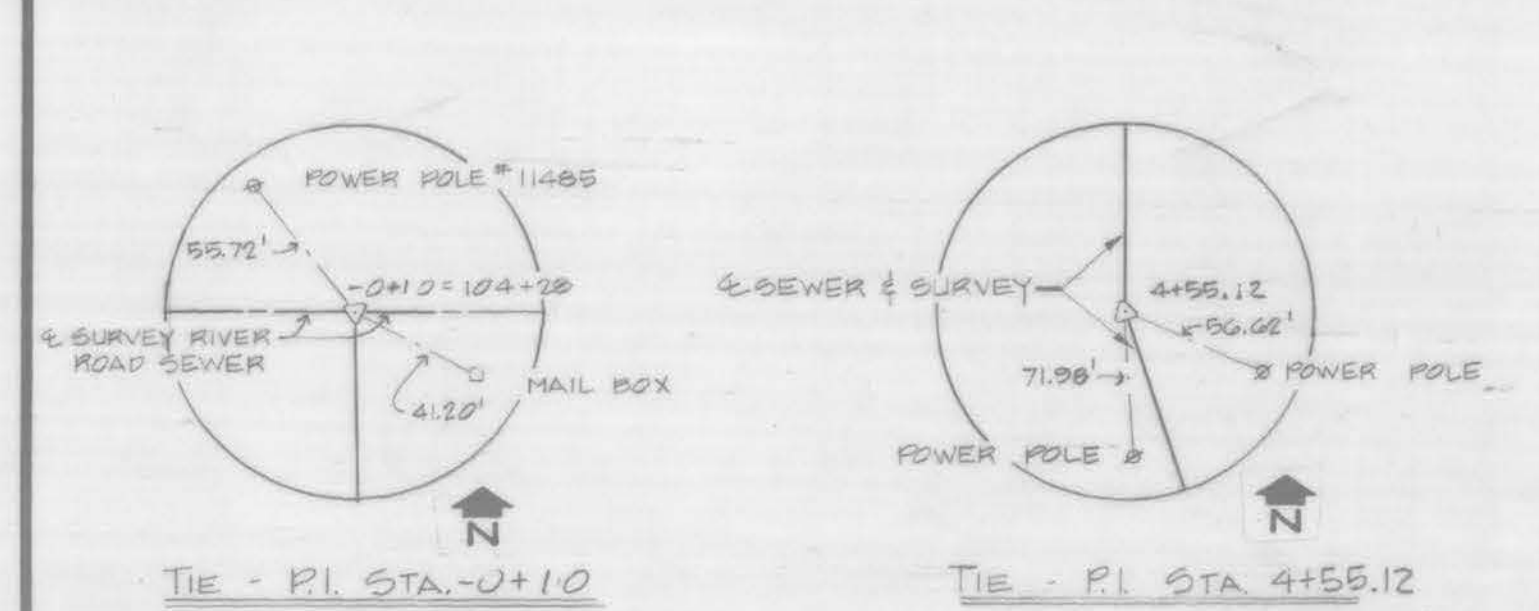
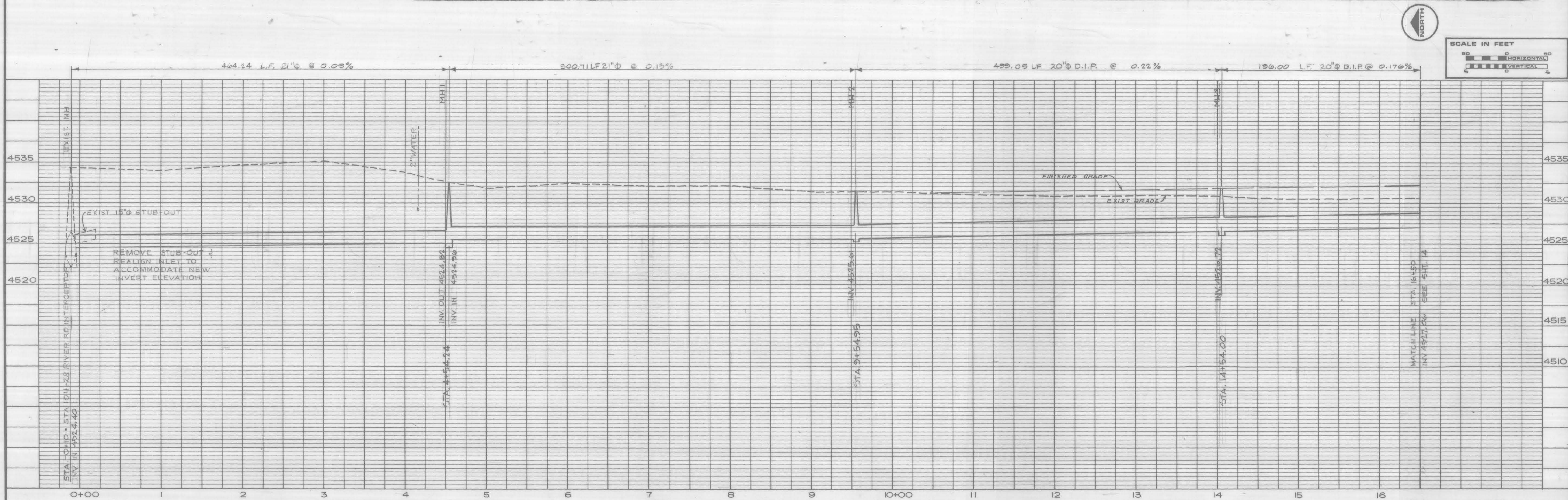
GRAND JUNCTION / MESA COUNTY
TIARA RADO INTERCEPTOR SEWER

LIFT STATION ACCESS ROAD
PLAN & PROFILE

HENNINGSON, DURHAM & RICHARDSON, INC.
ENGINEERING · ARCHITECTURE · PLANNING
DENVER, COLORADO GRAND JUNCTION, COLORADO

DATE	DESCRIPTION	MADE	APPROV
7-26-04	AS-BUILT	DY	JEA

JOB: DESIGNER: B. STOKES CHECKED: R. STOKES
73-50-10 APPROVED: P. HENNINGSON
DATE: 18 MAY 2004 SHEET: 11



DATE OF AERIAL PHOTOGRAPHY
4 APRIL 1979
TYPICAL ALL SHEETS

GRAND JUNCTION / MESA COUNTY
**GOAT WASH
INTERCEPTOR SEWER**

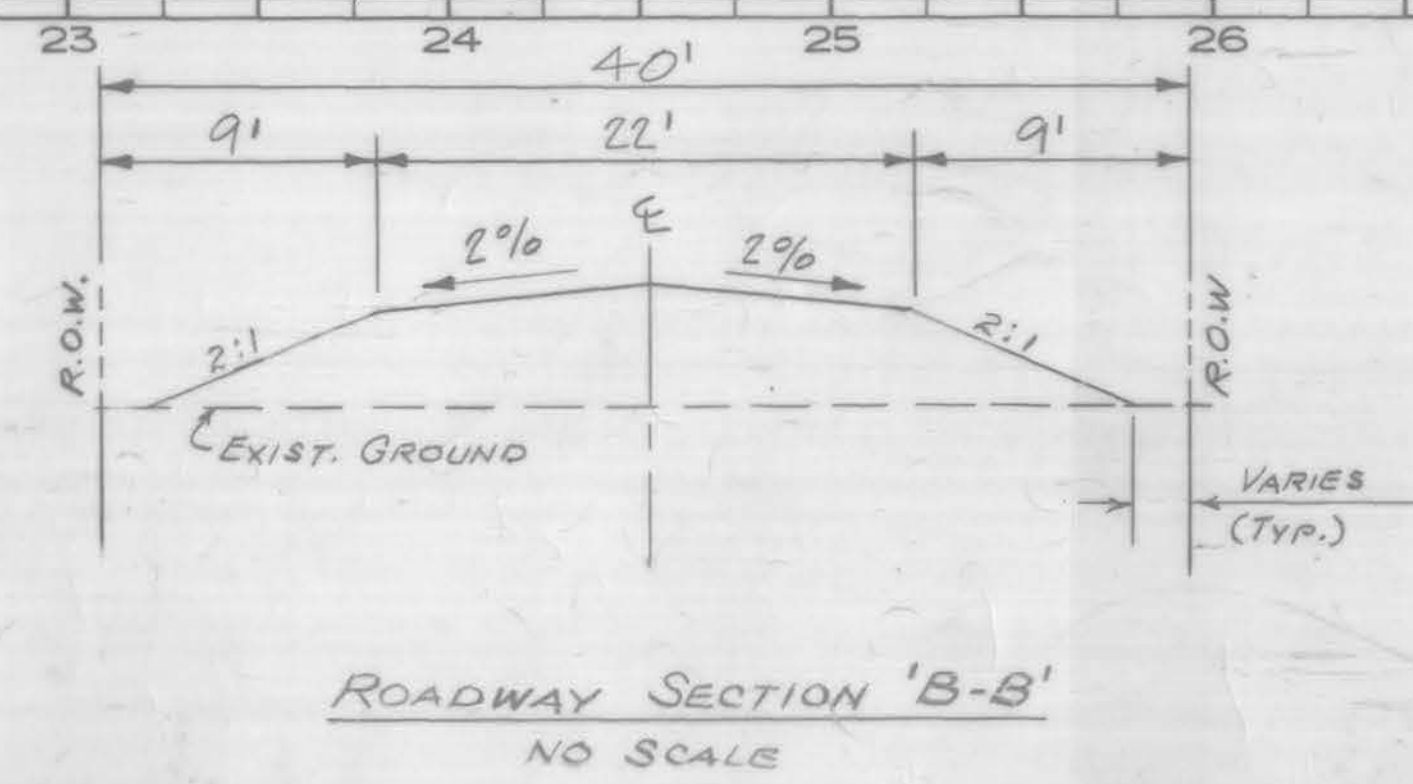
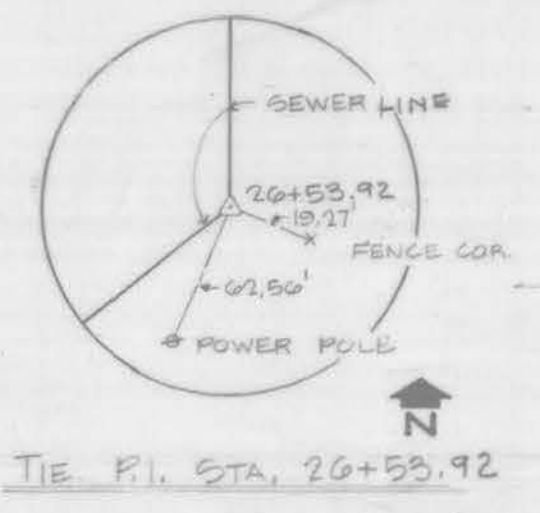
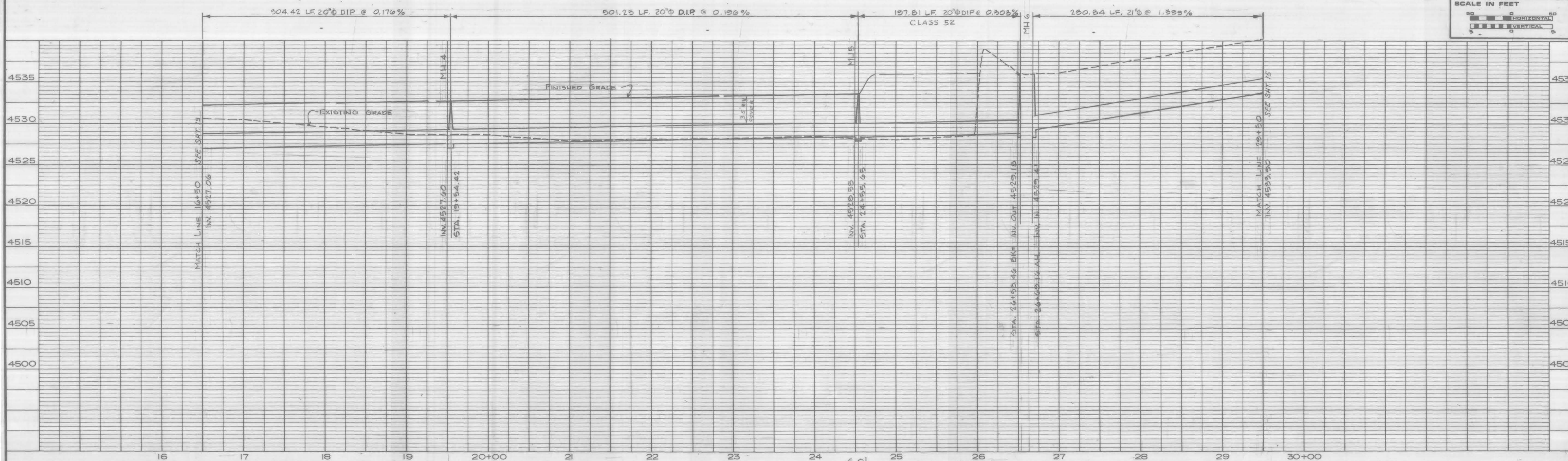
**PLAN & PROFILE
STA. 0+10 TO STA. 16+50**



HINNINGSON, DURHAM & RICHARDSON, INC.
ENGINEERING - ARCHITECTURE - PLANNING
DENVER, COLORADO GRAND JUNCTION, COLORADO

JOB: DESIGNER: K. Meador CHECKED: S. Stokes SHEET: 13 OF 27
APPROVED: J. HERRICKSEN DATE: 12/21/78
73-48-10 DETAILER: K. MERRIFIELD

NO.	DATE	DESCRIPTION	MADE	APPROV.
1	1/30/84	AS-BUILT	DY	JEA



GRAND JUNCTION / MESA COUNTY
GOAT WASH INTERCEPTOR SEWER

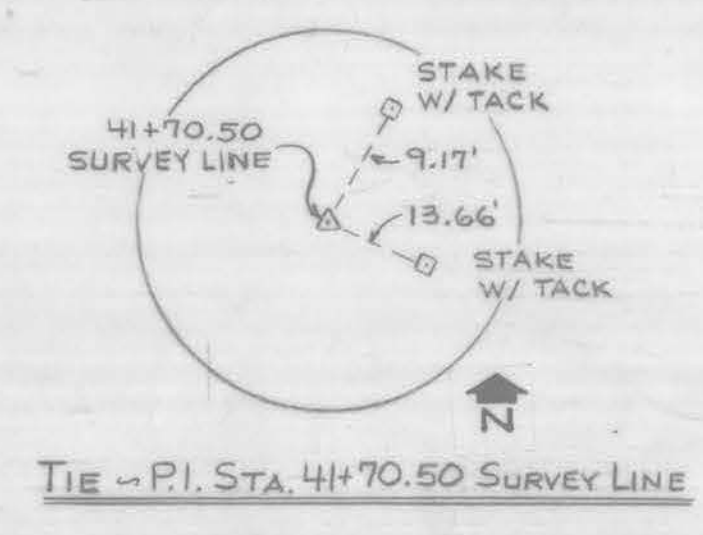
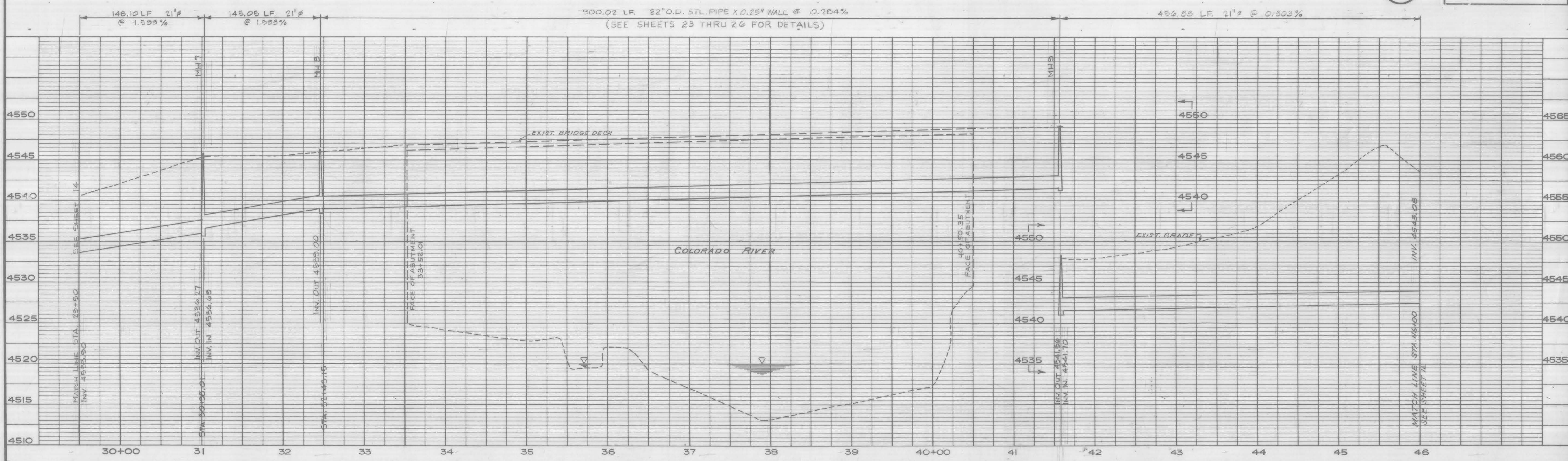
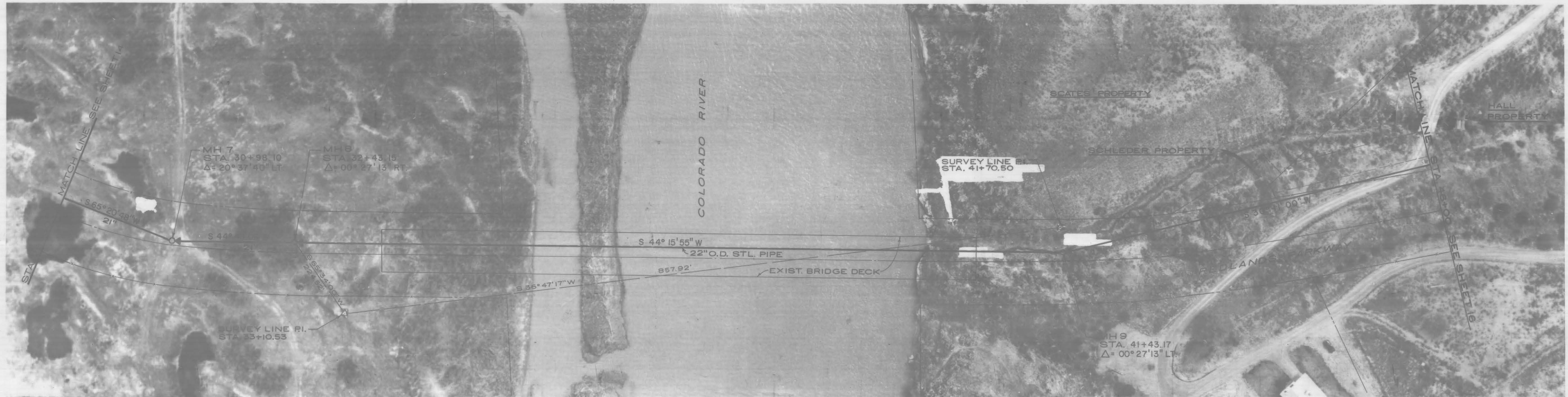
PLAN & PROFILE
 STA. 16+50 TO STA. 29+50

HENNINGSON, DURHAM & RICHARDSON, INC.
 ENGINEERING - ARCHITECTURE - PLANNING
 DENVER, COLORADO GRAND JUNCTION, COLORADO

1	1/30/04	AS-BUILT	DY	JEA
2				
3				
4				
5				

JOB: 73-48-10
 DESIGNER: K. MEADOR
 CHECKED: B. STORER
 APPROVED: K. HENNINGSON
 DATE: 19 MAY 2004

SHEET 14 OF 27



GRAND JUNCTION / MESA COUNTY
GOAT WASH INTERCEPTOR SEWER

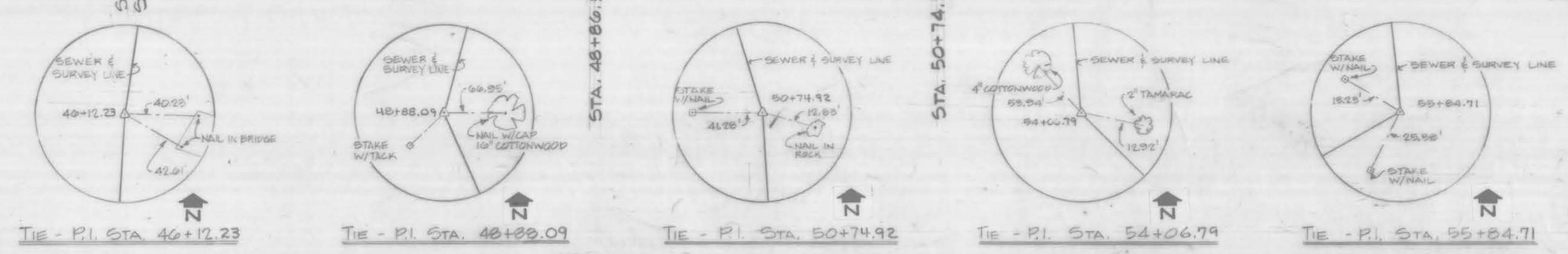
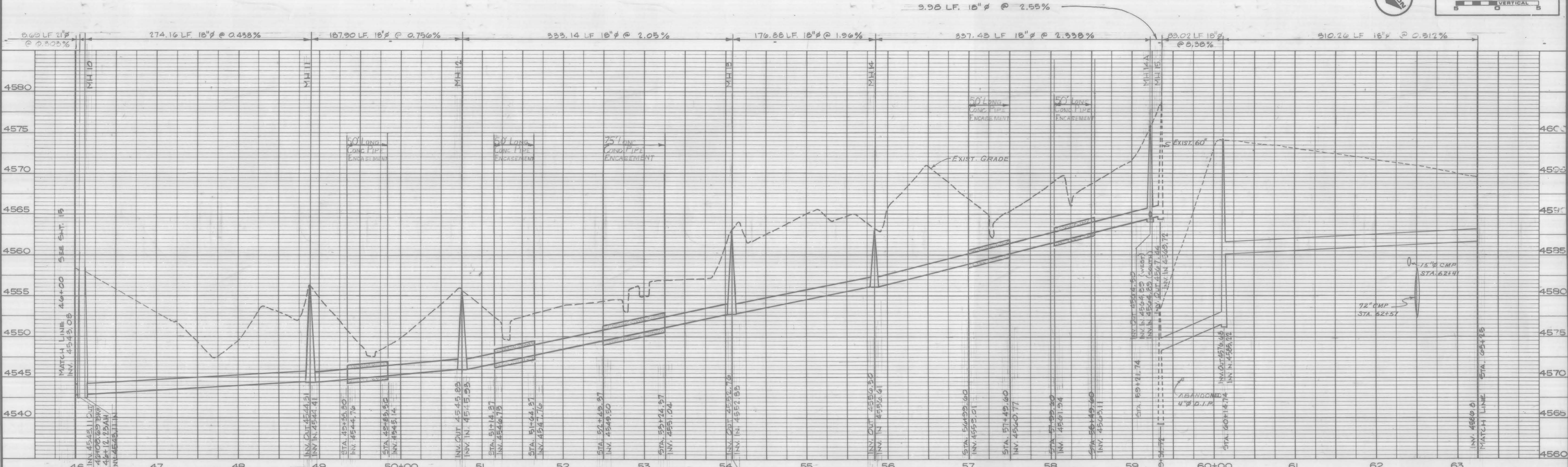
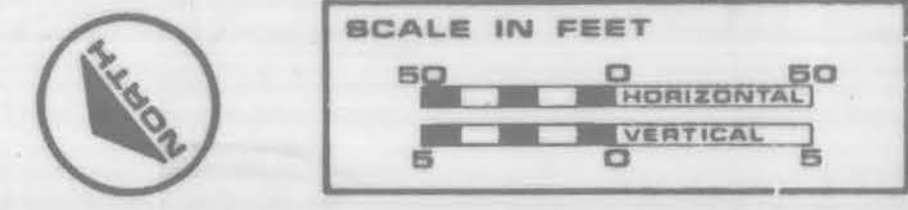
PLAN & PROFILE
 STA. 29+50 TO STA. 46+00



HENNINGSON, DURHAM & RICHARDSON, INC.
 ENGINEERING - ARCHITECTURE - PLANNING
 DENVER, COLORADO GRAND JUNCTION, COLORADO

NO.	DATE	DESCRIPTION	MADE	APPROV.
1	1/20/04	AS BUILT	DY	JGA
2				
3				

DESIGNER: K. MEADOR CHECKED: S. STOKES SHEET: 15 OF 27
 APPROVED: J. HENDRICKSON
 73-48-10 RETAILER: K. MEADOR DATE: 12/27/02



T.B.M. 1 THRU 3 DESCRIPTIONS
 T.B.M. #1 - ELEV. = 4568.43 - DOUBLE NAIL SET IN POWER POLE ON TOP OF 14" HIGH BANK NEXT TO DRIVEWAY FLAGGED PINK/BLUE/PINK - APPROX. STA. 46+50±
 T.B.M. #2 - ELEV. = 4564.75 - DOUBLE NAIL SET IN POLE NEXT TO BOX FOR IRRIGATION. POLE HAS METER & ELEC. SERVICE BOX. FLAGGED PINK/BLUE/PINK - APPROX. STA. 52+25±
 T.B.M. #3 - ELEV. = 4562.94 - DOLT IN EAST FACE OF POWER POLE W/ POWER METER & BOX - WIRE 2 IN N 45° POLE JUMP NORTH OF DIET DRIVE - FLAGGED PINK/BLUE/PINK - APPROX. STA. 59+50±

GRAND JUNCTION / MESA COUNTY
GOAT WASH INTERCEPTOR SEWER
 PLAN & PROFILE
 STA. 46+00 TO STA. 63+00

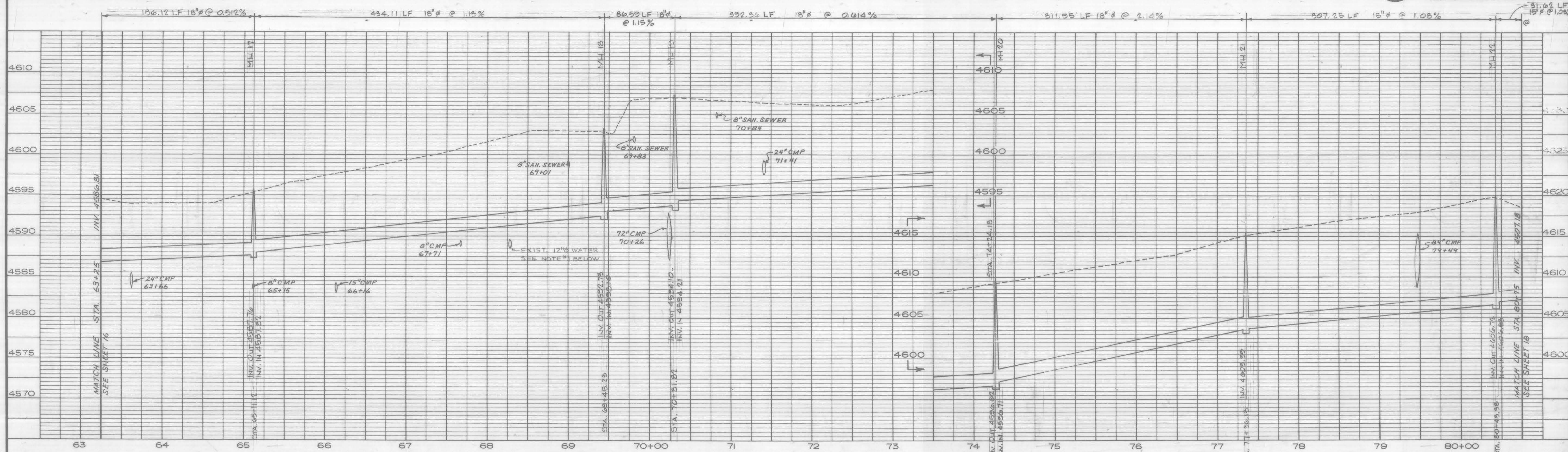


1	1/30/04	AS BUILT	DY	JEA
2				
3				

HINNINGSON, DURHAM & RICHARDSON, INC.
 ENGINEERING - ARCHITECTURE - PLANNING
 DENVER, COLORADO GRAND JUNCTION, COLORADO

JOB: 73-48-10
 DESIGNER: K. MEADOR
 CHECKER: S. STOKES
 APPROVED: K. HENNINGSON
 DATE: 18 MAY 1982

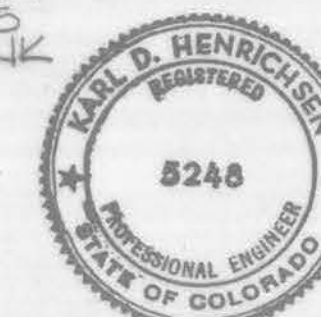
SHEET: 16 OF 27



NOTE: CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL STRUCTURES & UTILITIES CROSSING THE ALIGNMENT OF THIS SEWER BETWEEN MH 16 & MH 21 BEFORE PROCEEDING WITH CONSTRUCTION IN THAT AREA.

NOTE #1: EXACT LOCATION OF 12" WATER LINE SHALL BE DETERMINED BY CONTRACTOR AND RELOCATED PER INSTRUCTIONS OF FIELD ENGINEER IF REQ'D.

T.B.M. # 5 - G DESCRIPTIONS
 T.B.M. # 5 - ELEV. = 4614.22 - DOUBLE NAIL IN POLE NO WIRE - 3' NORTH OF PUMP HOUSE ON WEST SIDE OF STREAM - FLAGGED YELLOW/RED/YELLOW - APPROX. STA. 75+10 =
 T.B.M. # 6 - ELEV. = 4617.68 - DOUBLE NAIL IN POWER POLE ON EAST SIDE OF STREAM W/ TRANSFORMER & WIRES RUNNING EAST & WEST - FLAGGED PINK/GREEN/PINK - APPROX. STA. 71+00 =

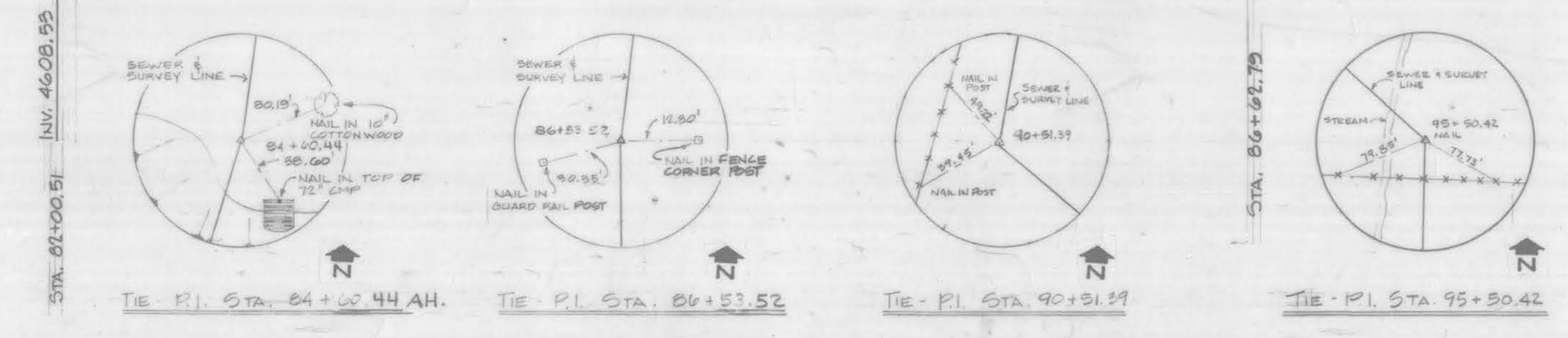
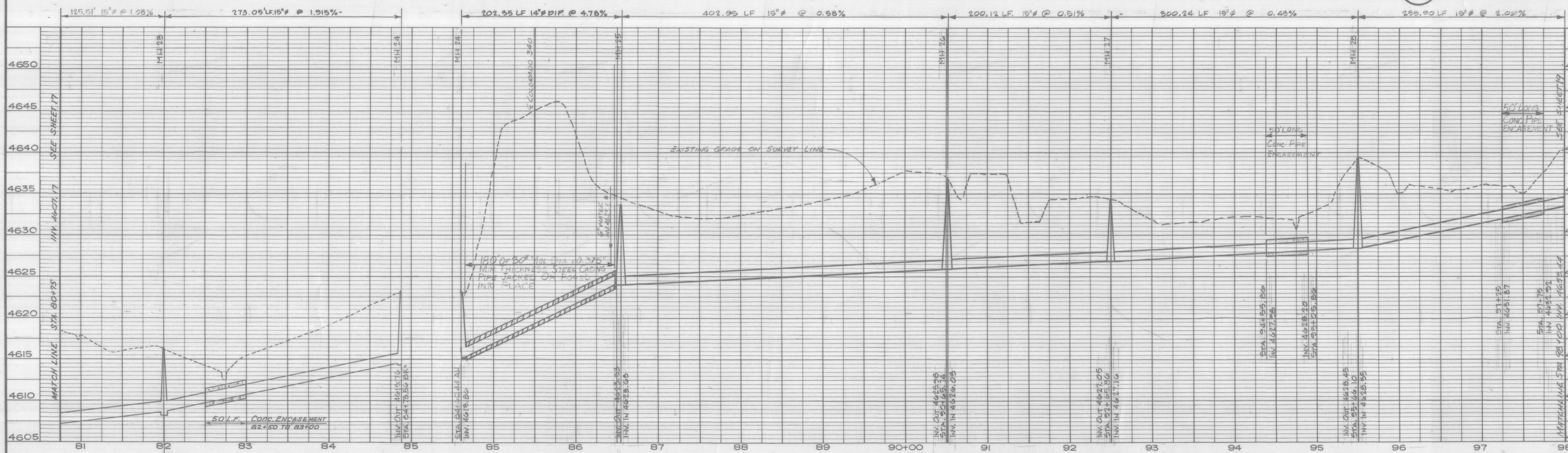
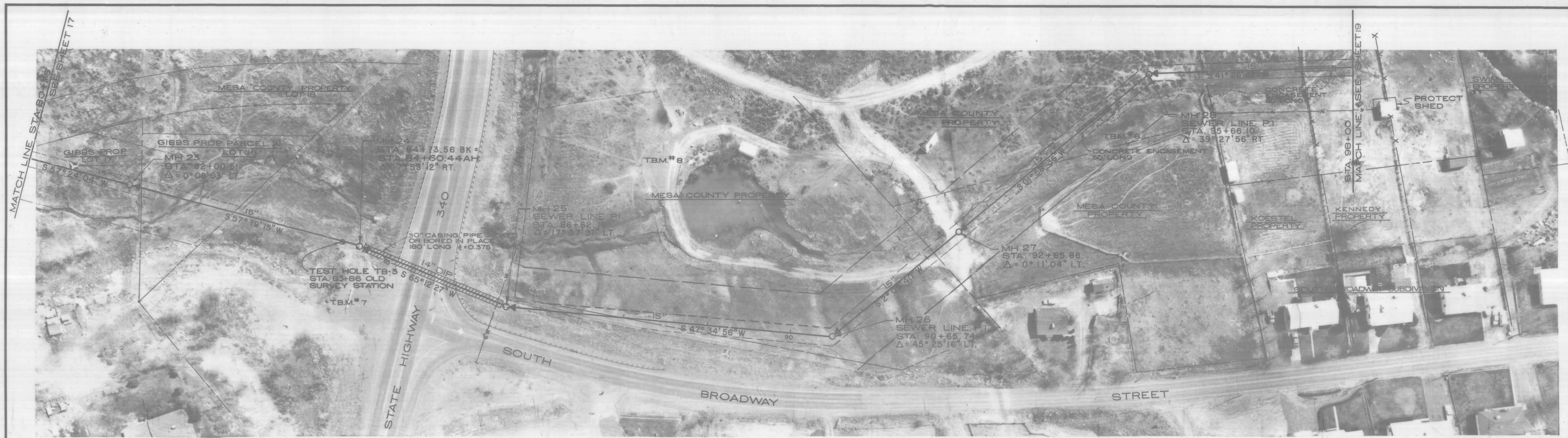


GRAND JUNCTION / MESA COUNTY
GOAT WASH INTERCEPTOR SEWER
 PLAN & PROFILE
 STA. 63+00 TO STA. 80+00

HENNINGSON, DURHAM & RICHARDSON, INC.
 ENGINEERING - ARCHITECTURE - PLANNING
 DENVER, COLORADO GRAND JUNCTION, COLORADO

NO.	DATE	DESCRIPTION	MADE	APPROV.
1	1/20/04	AS BUILT	DY	JE

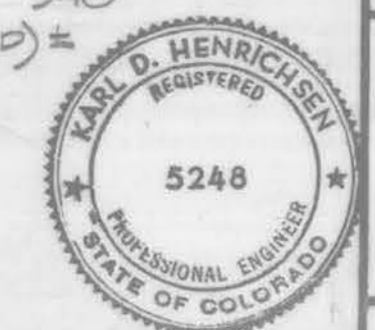
JOB 73-48-10
 DESIGNED: K. MEADOR
 CHECKED: S. STUBBS
 APPROVED: K. HENNINGSON
 DATE: 10.10.1998
 SHEET 17 OF 27



T.B.M. #7-T.B.M. #9 DESCRIPTION
 T.B.M. #7 - ELEV. = 4642.61 - 'X' CUT INTO CONCRETE BASE (N. SIDE) OF LIGHT POLE ON N. SIDE OF RD. AT INT. OF BROADWAY & STATE HIGHWAY 340 - APPROX. STA. 84+20±
 T.B.M. #8 - ELEV. = 4637.35 - TOP OF BRASS CAP 1/4 CORNER EAST OF POND INSIDE OF COUNTY PROPERTY SE OF INT. OF BROADWAY & HIGHWAY 340 TREE NEARBY FLAGGED ORANGE & GREEN - APPROX. STA. 87+00 (OLD)±
 T.B.M. #9 - ELEV. = 4632.92 - DOUBLE NAIL IN W. FACE 6"x6" PF. AT INT. OF FENCES JUST SOUTH OF 6 1/2" FOOT CHAIN LINK FENCE ON COUNTY PROPERTY ON EAST SIDE OF STREAM - FLAGGED ORANGE/GREEN - APPROX. STA. 95+00 (OLD)±

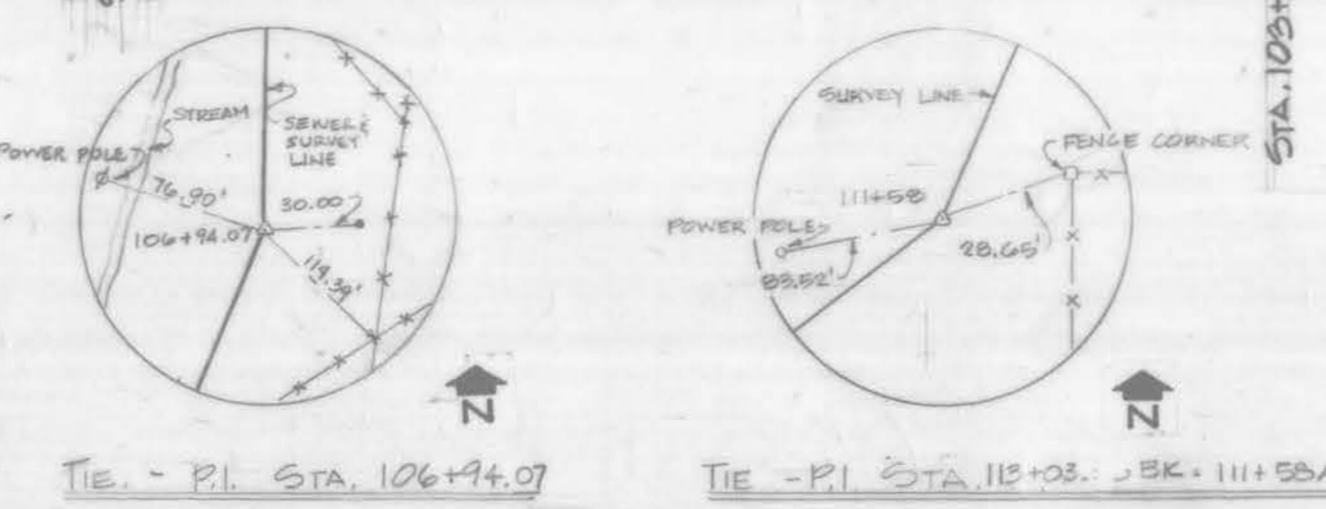
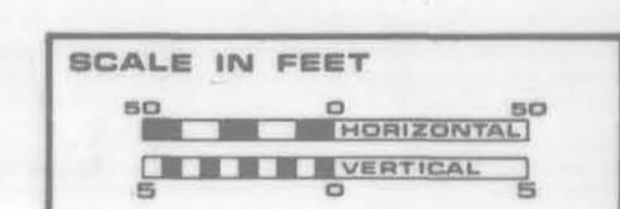
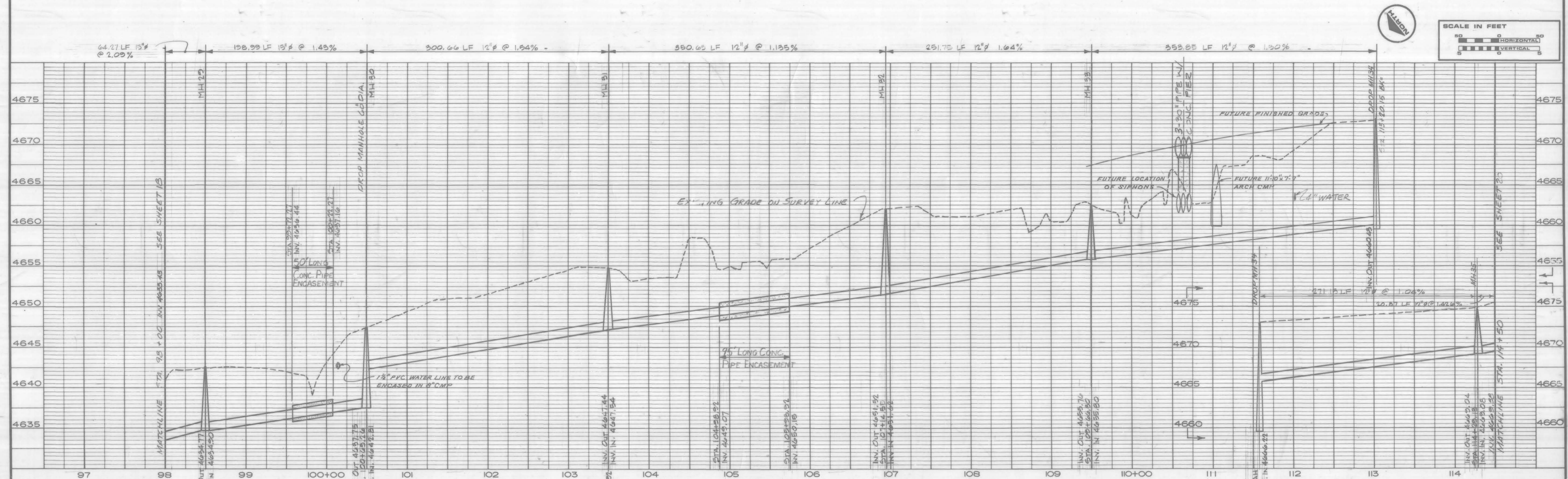
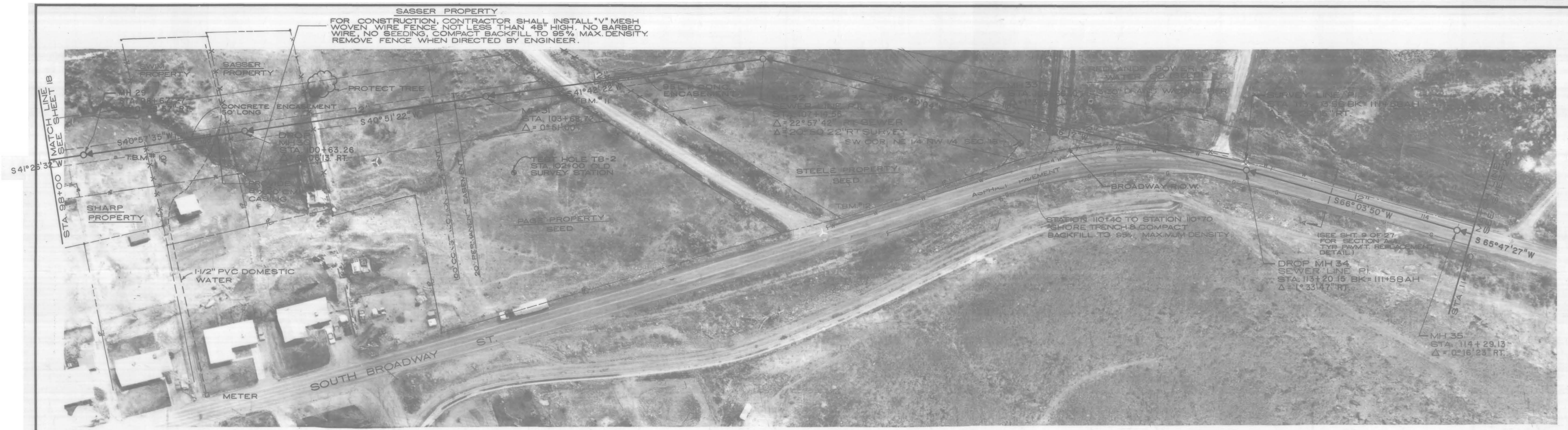
GRAND JUNCTION / MESA COUNTY
GOAT WASH INTERCEPTOR SEWER

PLAN & PROFILE
 STA. 80+00 TO STA. 93+00



HENNINGSON, DURHAM & RICHARDSON, INC.
 ENGINEERING - ARCHITECTURE - PLANNING
 DENVER, COLORADO GRAND JUNCTION, COLORADO

NO.	DATE	DESCRIPTION	MADE	APPROV.
1	1/30/04	AS-BUILT	DY	JEA



T.B.M. #10 & 11 DESCRIPTION
 T.B.M. #10 - ELEV = 4664.72 - DOUBLE NAIL IN W. FACE OF FENCEPOST ON E. END OF HORSE PASTURE FLAGGED ORANGE/GREEN/ORANGE - APPROX. STA. = 99+50 (OLD)
 T.B.M. #11 - ELEV = 4661.93 - DOUBLE NAIL IN POWER POLE ON WEST SIDE OF STREAM IN PASTURE SOUTH OF DREVENAY FLAGGED YELLOW/ORANGE/YELLOW - APPROX. STA. = 105+00 (OLD)
 T.B.M. #12 - ELEV = 4666.36 - TOP OF 1/8\"/>



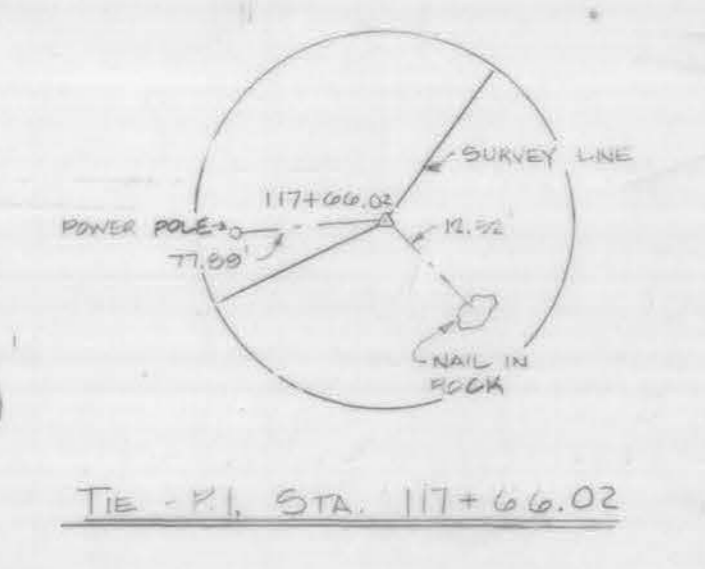
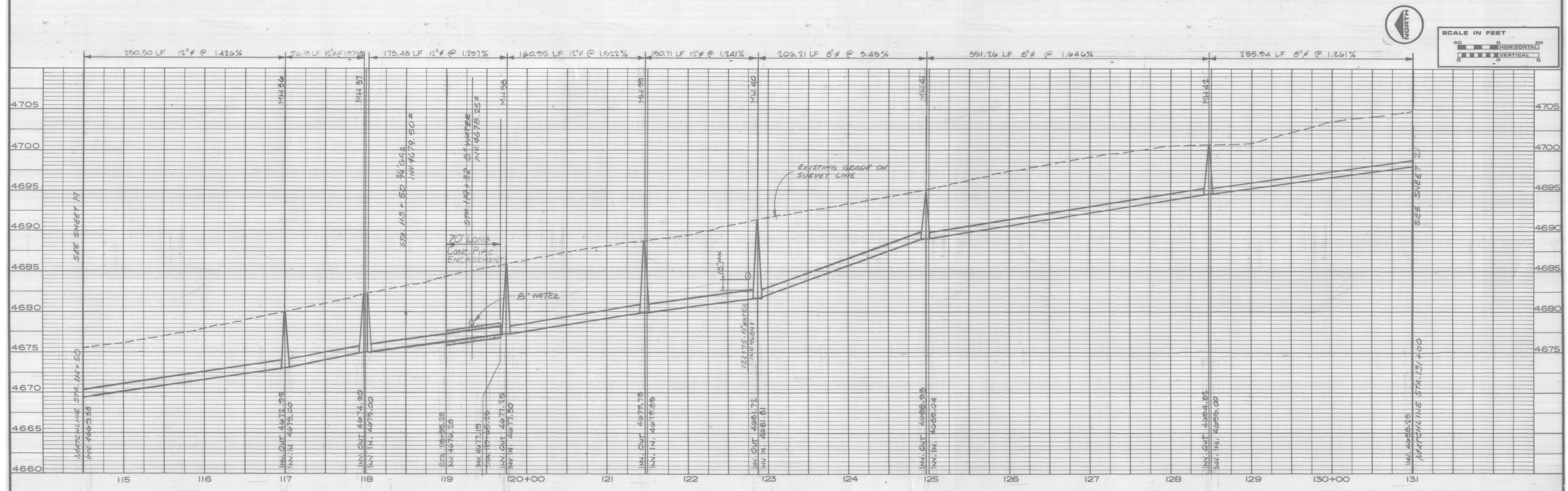
GRAND JUNCTION / MESA COUNTY
GOAT WASH INTERCEPTOR SEWER

PLAN & PROFILE
 STA. 93+00 TO STA. 114+50

HENNINGSON, DURHAM & RICHARDSON, INC.
 ENGINEERING - ARCHITECTURE - PLANNING
 DENVER, COLORADO GRAND JUNCTION, COLORADO

DESIGNER: K. Meador CHECKED: S. STOKES
 APPROVED: J. HENNINGSON
 DATE: 12 MAY 1992

NO.	DATE	DESCRIPTION / REVISIONS	MADE	APPROV.
1	1/30/92	AS-BUILT	DY	JEA
2				



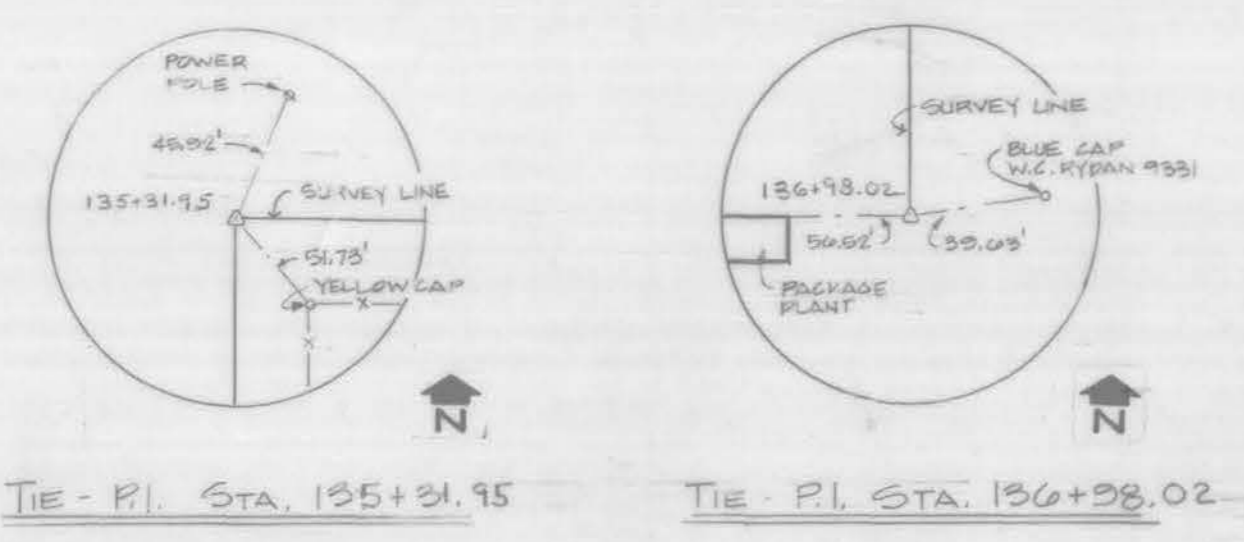
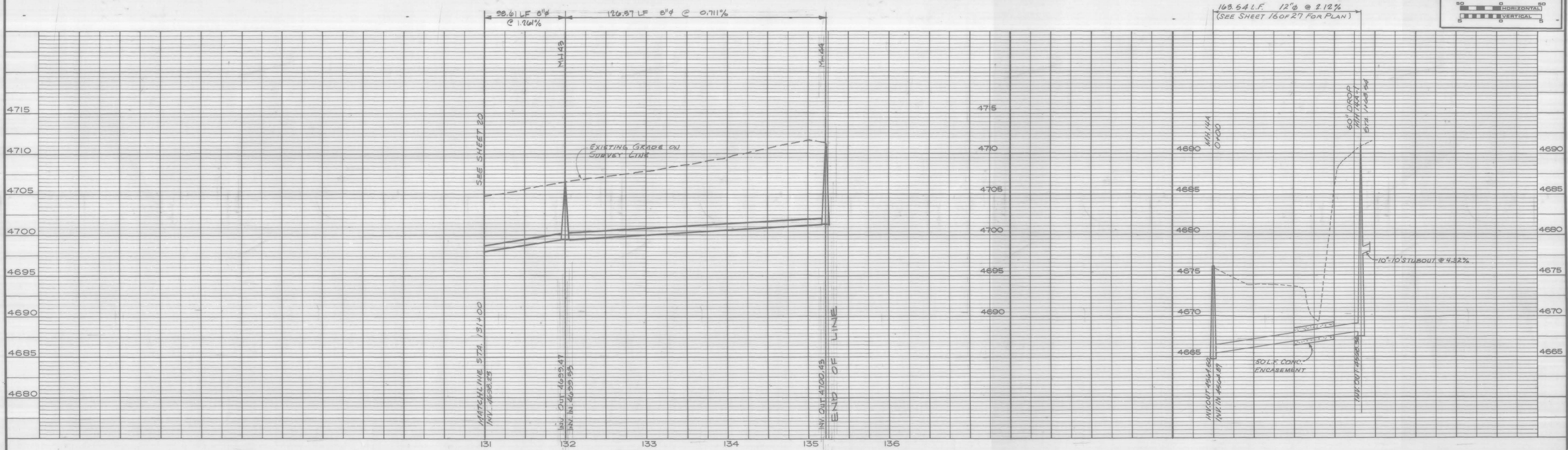
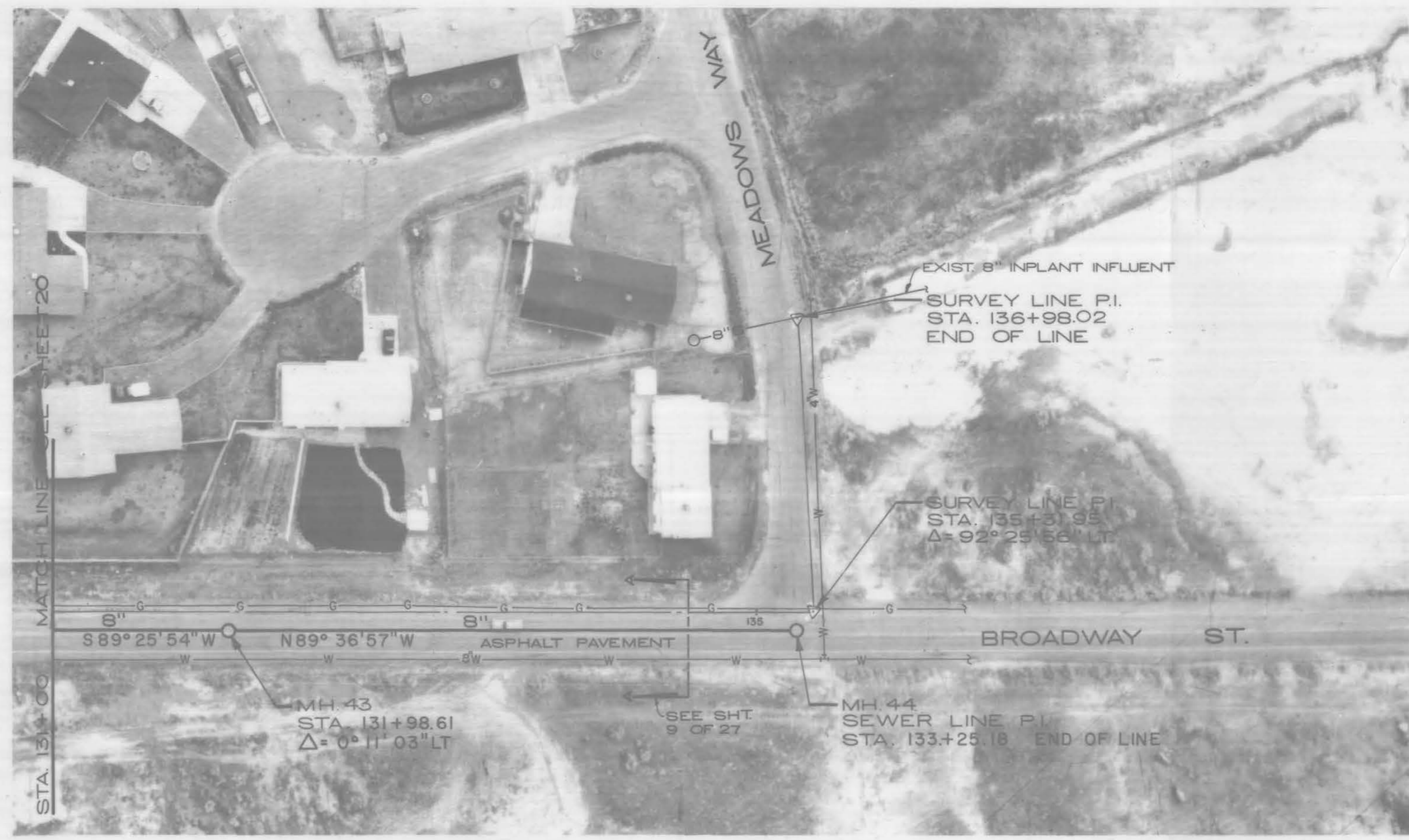
GRAND JUNCTION / MESA COUNTY
GOAT WASH INTERCEPTOR SEWER

PLAN & PROFILE
 STA. 114+50 TO STA. 131+00



HENNINGSON, DURHAM & RICHARDSON, INC.
 ENGINEERING - ARCHITECTURE - PLANNING
 DENVER, COLORADO GRAND JUNCTION, COLORADO

1	4/30/98	AS-BUILT	DY	JEK
2				
3				
DATE	DESCRIPTION	MADE	APPROV	
73-48-10				



GRAND JUNCTION / MESA COUNTY
GOAT WASH INTERCEPTOR SEWER

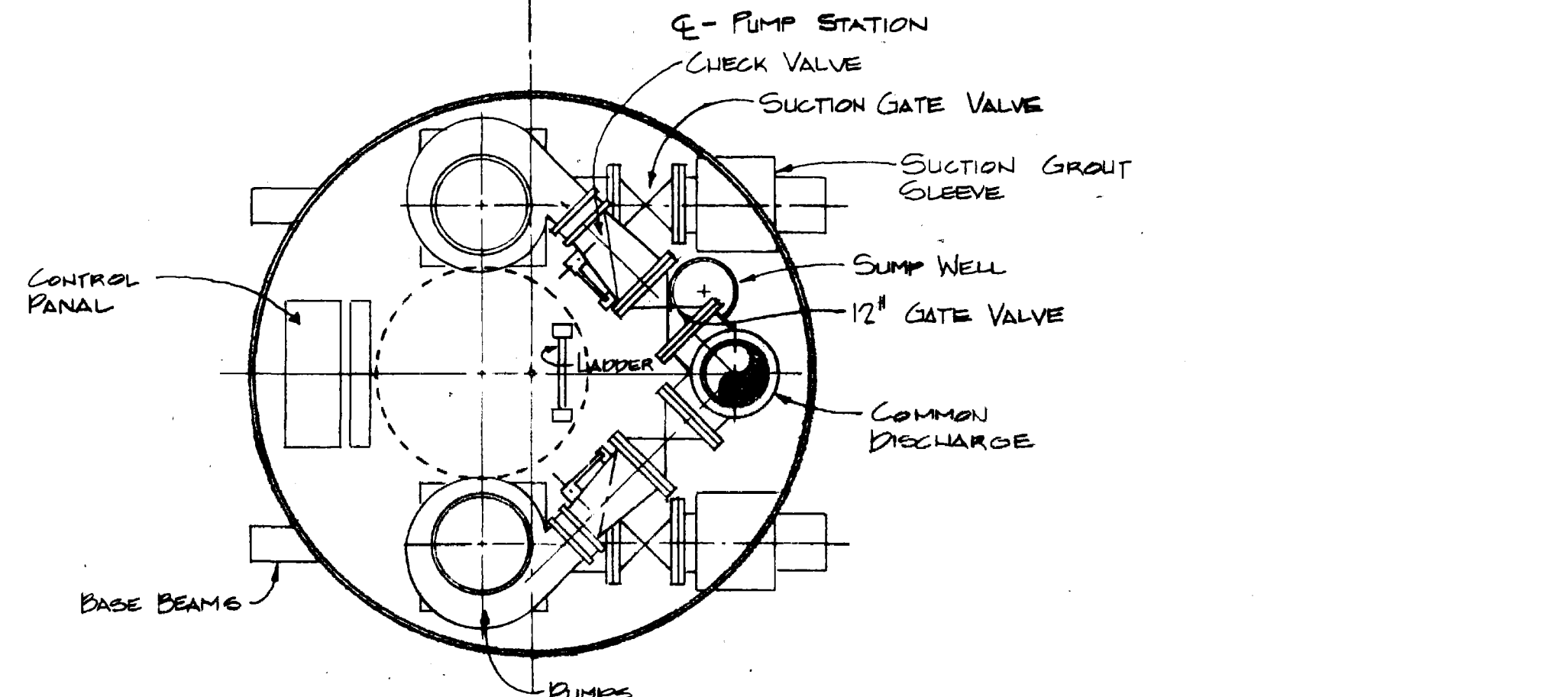
PLAN & PROFILE
 STA. 131+00 TO STA. 136+98EOL



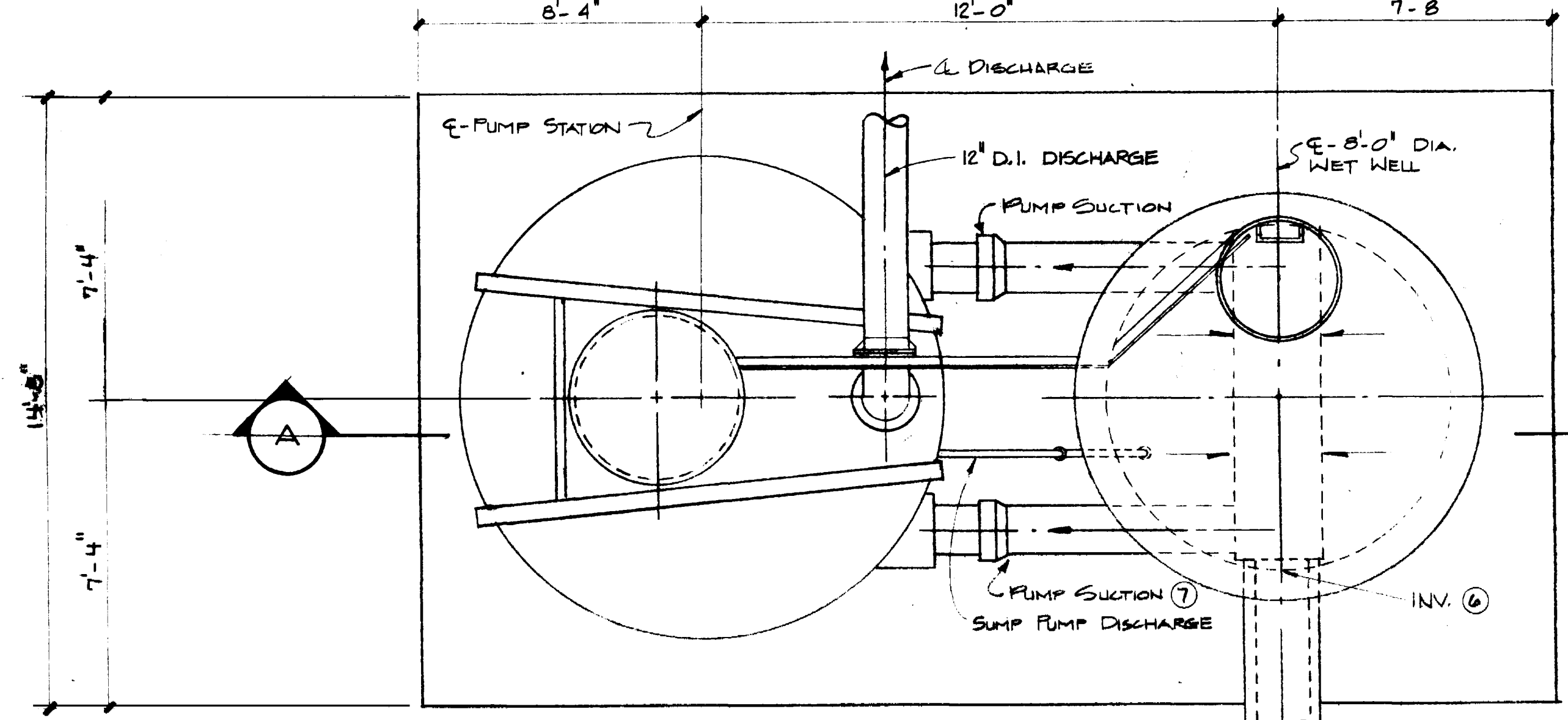
HENNINGSON, DURHAM & RICHARDSON, INC.
 ENGINEERING - ARCHITECTURE - PLANNING
 DENVER, COLORADO GRAND JUNCTION, COLORADO

NO.	DATE	DESCRIPTION	BY	APPROV.
1	11/20/24	AS-BUILT	DY	JEA
2				
3				

JOB NO. 73-48-10
 DESIGNER: K. H. Sidor
 CHECKED: R. V. Storer
 APPROVED: E. D. Henrichsen
 DATE: 18 MAY 1982



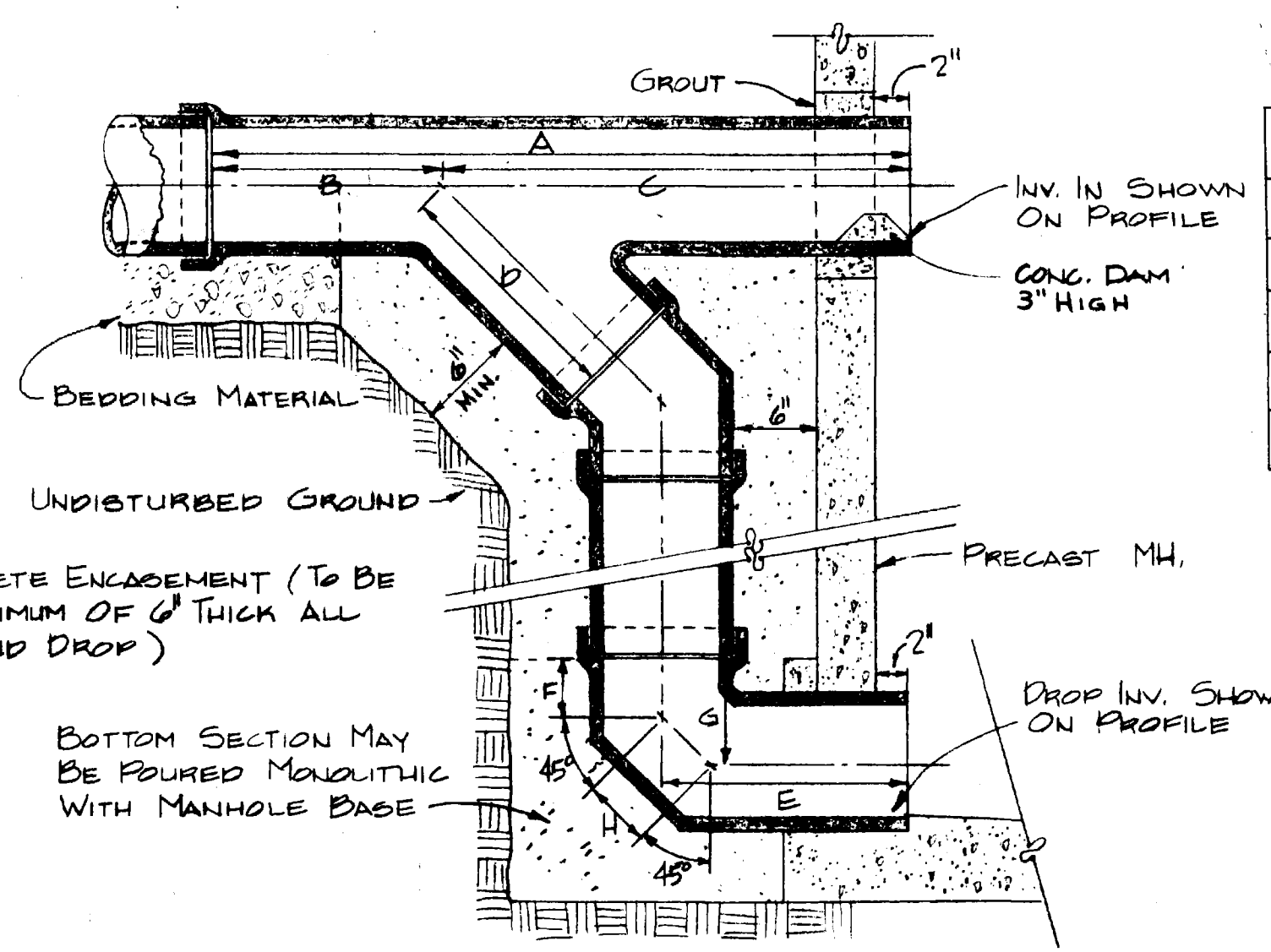
PLAN PUMP STATION



WETWELL REVISED SEE SHOP DRAWINGS, PLAN PUMP STATION (1 REQ'D.) NO SCALE

STA. 37+40 TIARA RADO

NOTE: 100 YEAR FLOOD EL. = 4512±

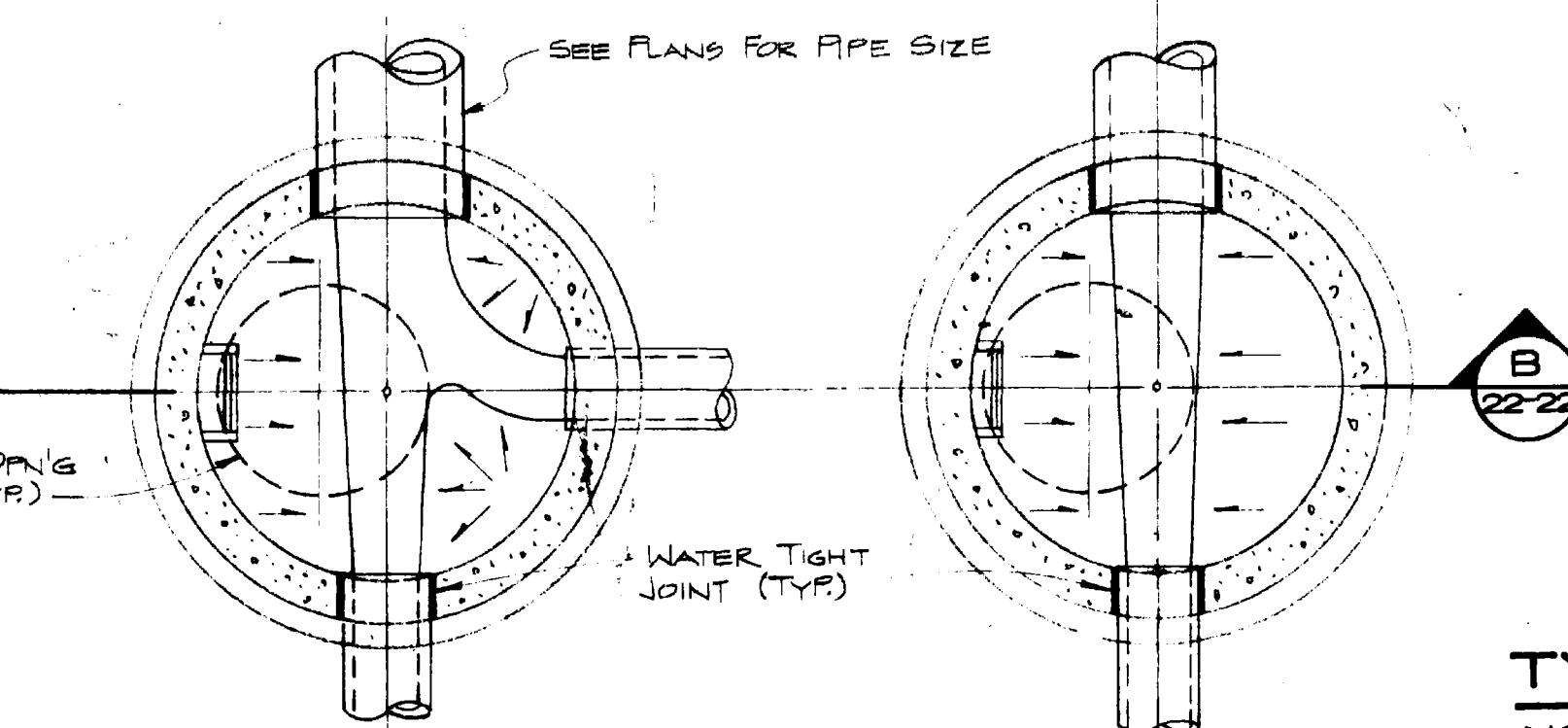


OUTSIDE DROP MANHOLE CONSTRUCTION DETAIL NO SCALE

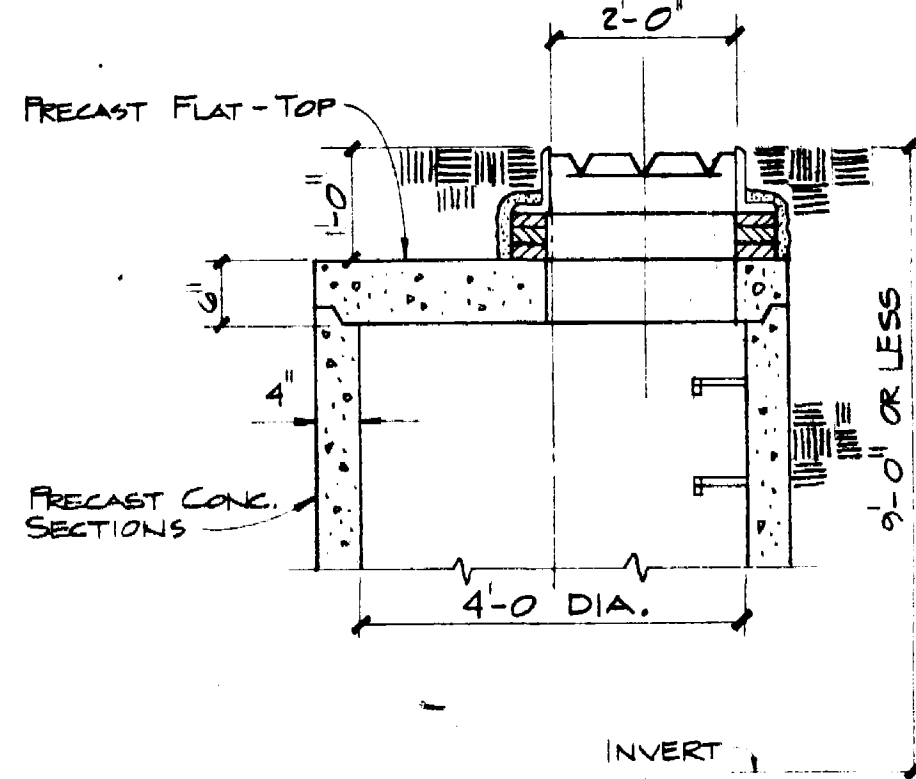
PIPE I.D.	A	B	C	D	E	F	G	H	J	K	J/K
8"	60"	26"	34"	10"	21"	41"	8"	49"	12"	15"	27%
10"	60"	20"	40"	21"	21"	5 1/2"	9"	54"	14"	10 1/2"	32%
12"	60"	16"	42"	24"	21"	5 1/2"	10 1/2"	54"	16 1/2"	21"	35%
15"	70"	30"	50"	30"	24"	7"	12 1/2"	72"			

(APPROX. DIM. ONLY - MAY VARY)

NOTES:
 1. VIT. CLAY PIPE & FITTINGS (A.S.T.M. C-700) SHOWN, DETAILS SIMILAR FOR ALL OTHER PIPE.
 2. FOR PAYMENT PURPOSES: ALL FITTINGS & PIPE CONCRETE ENCASUREMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR LINE PIPE.
 3. DIAMETER OF DROP SHALL NOT BE LESS THAN THE LINE PIPE DIAMETER.

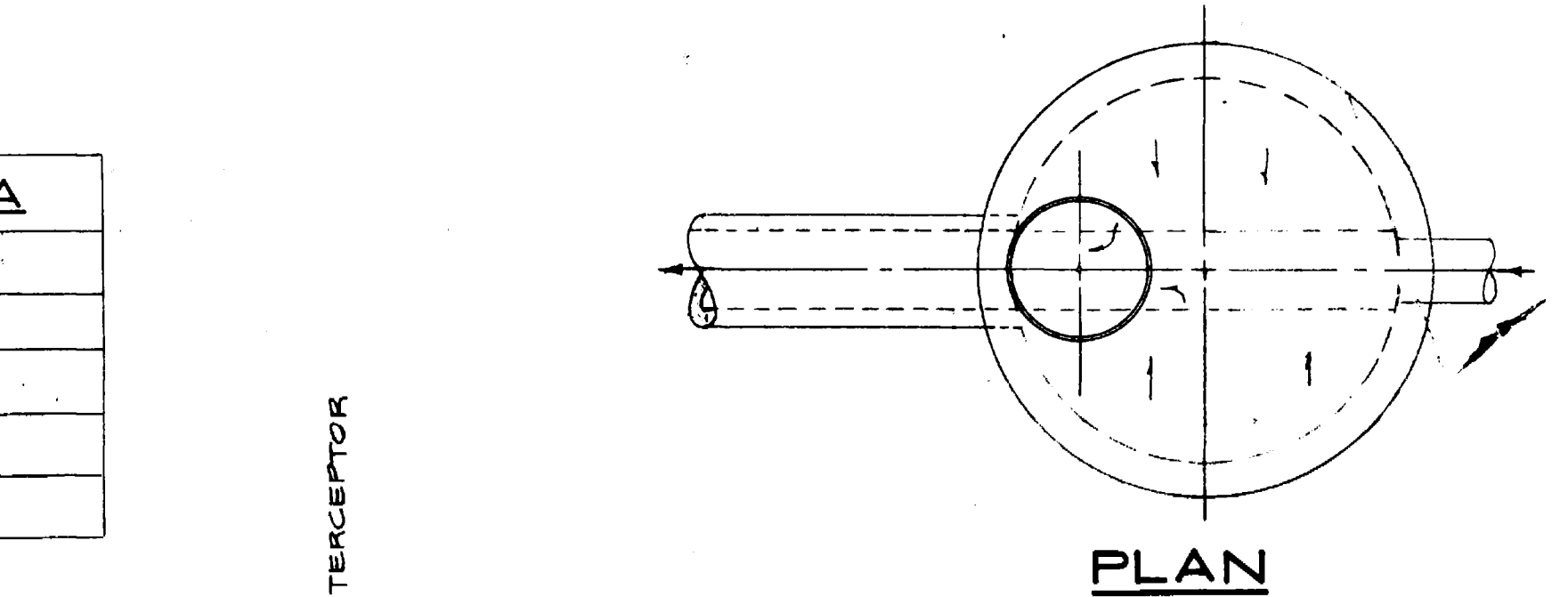


TYPICAL SHALLOW MANHOLE NO SCALE

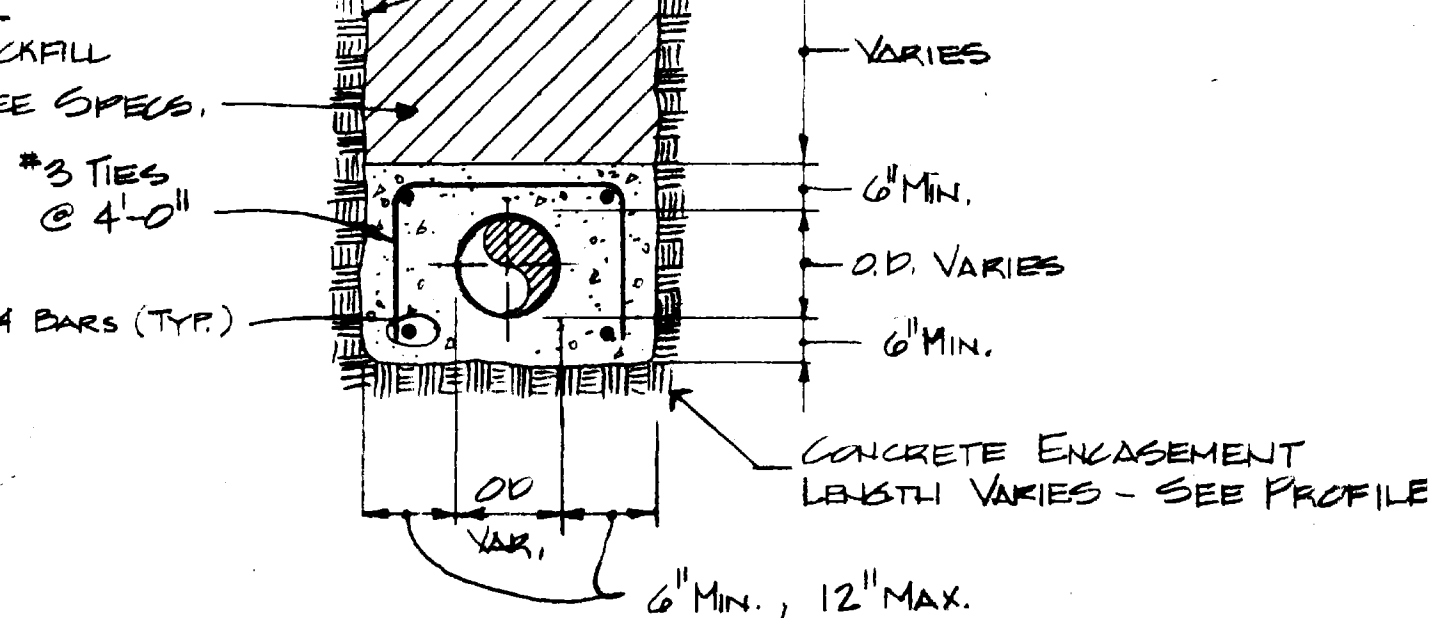
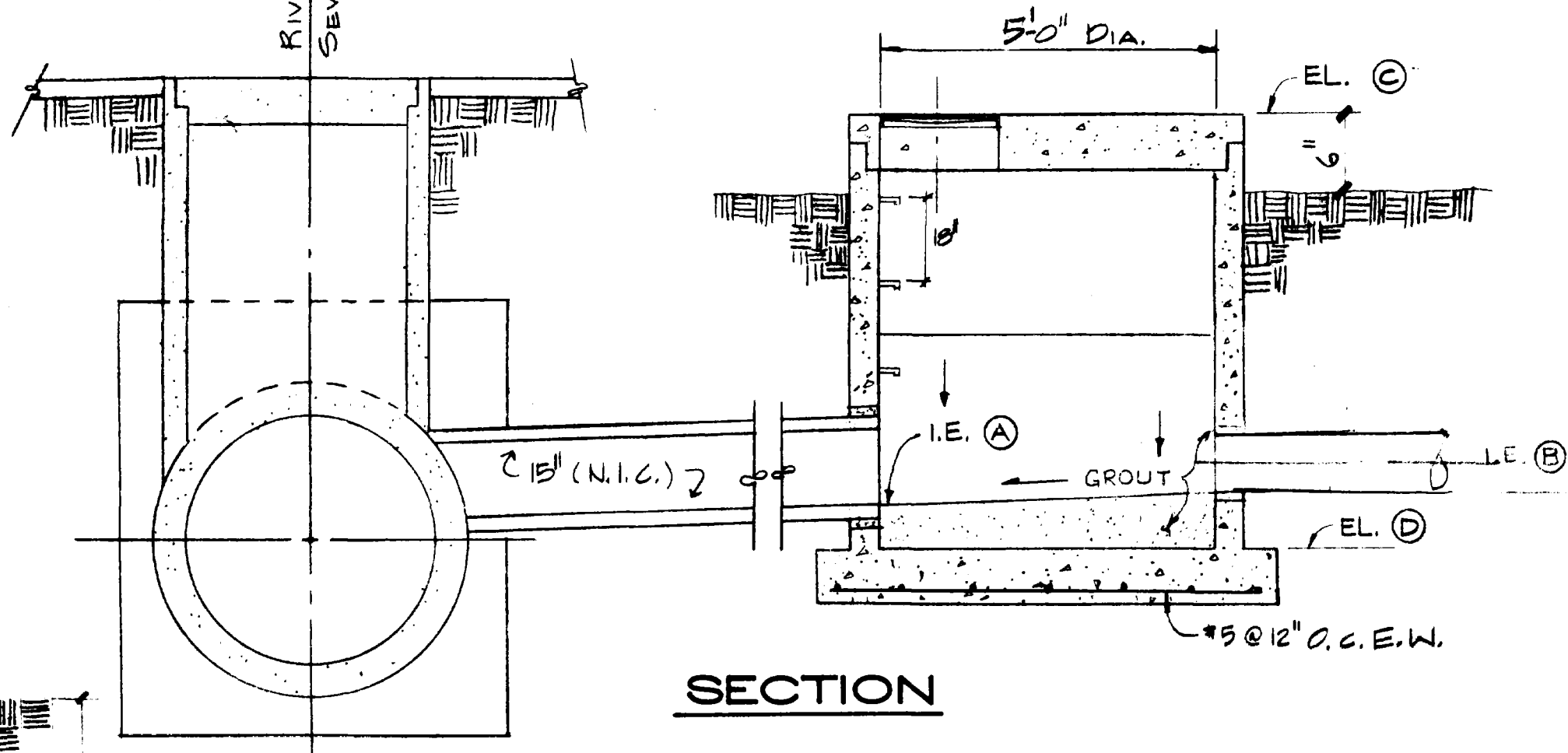


DETAIL MANHOLE "A" NO SCALE (1 REQ'D.)

STA. 0+20 TIARA RADO

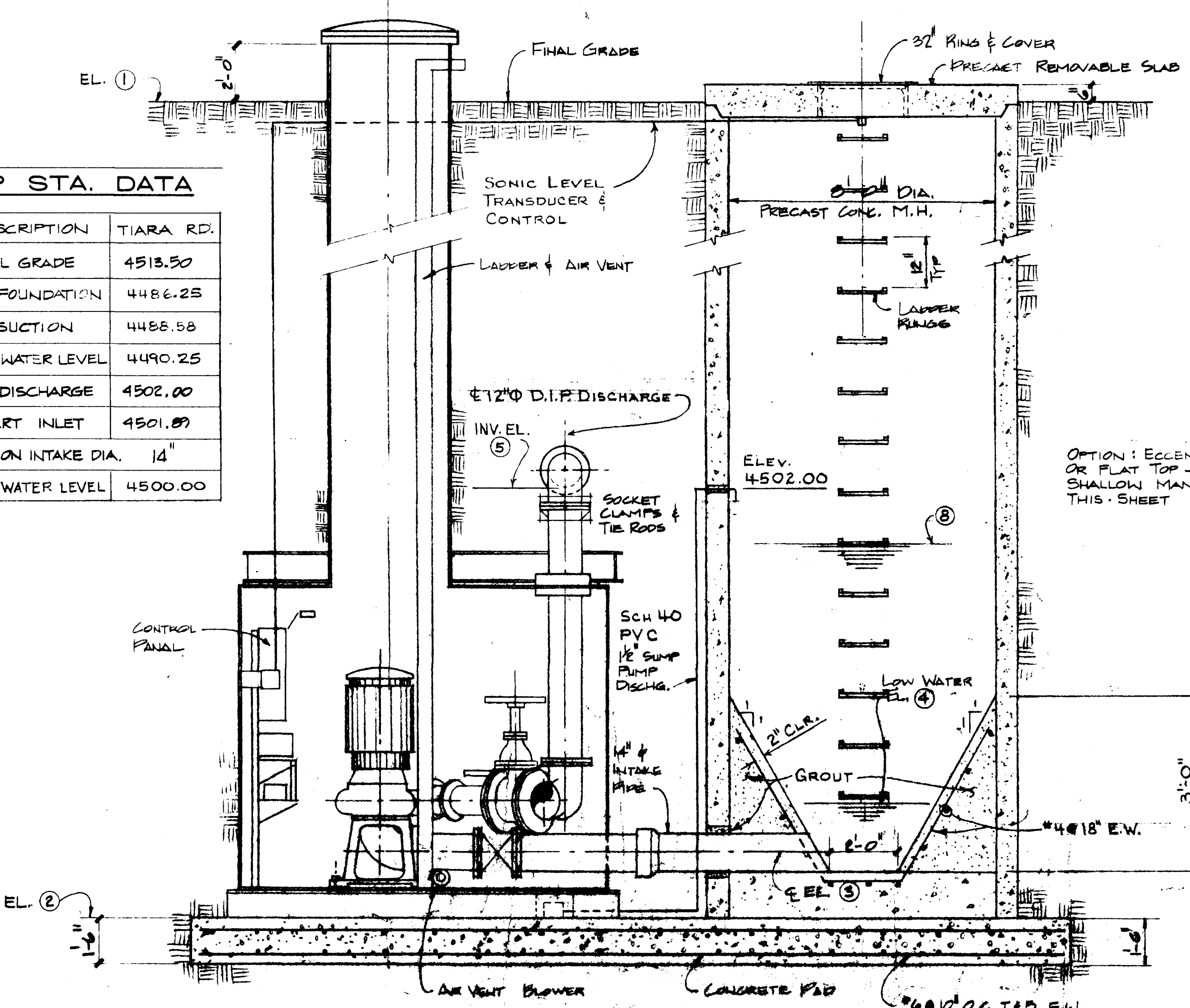


SECTION

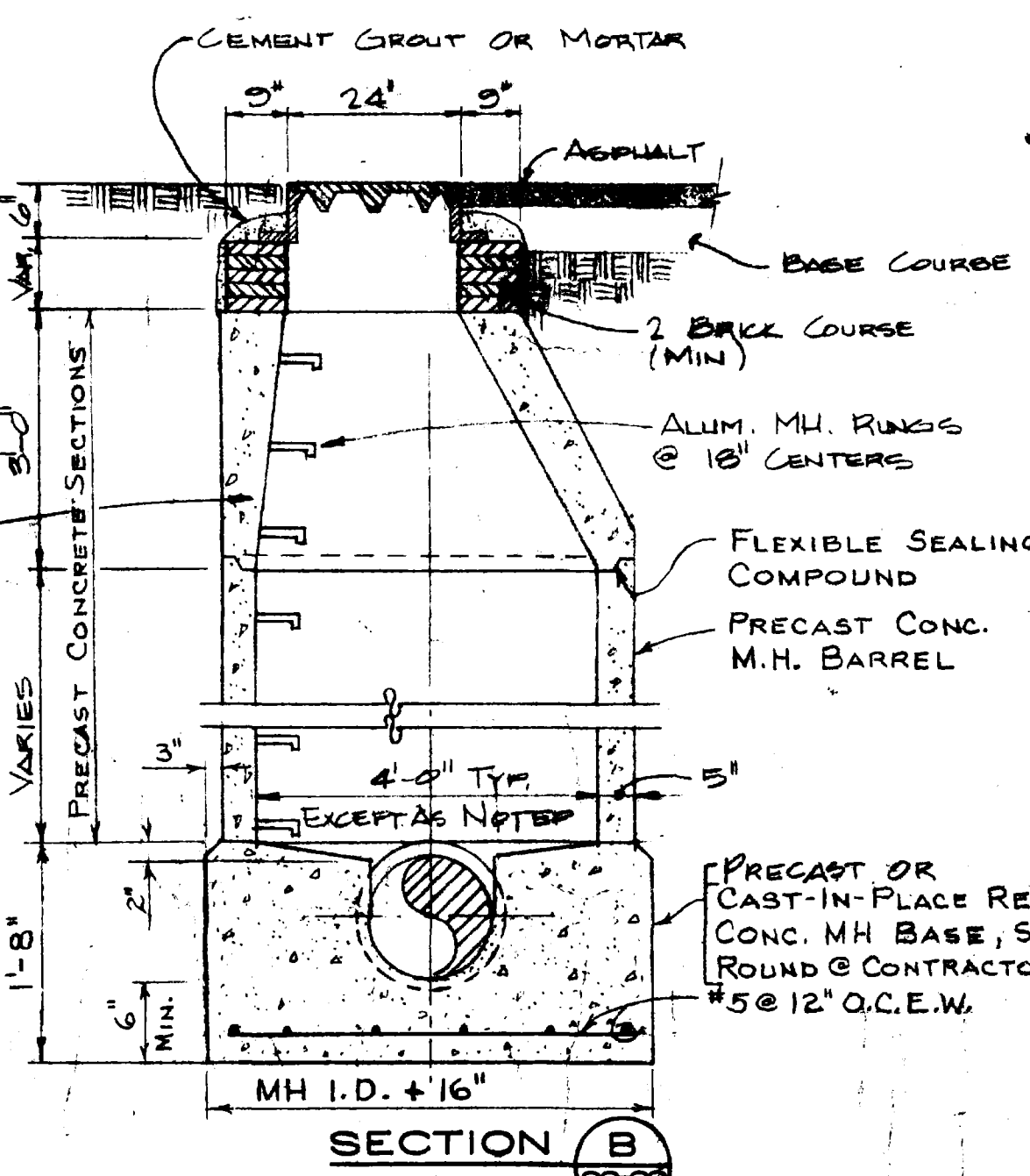


CONCRETE ENCASUREMENT DETAIL NO SCALE

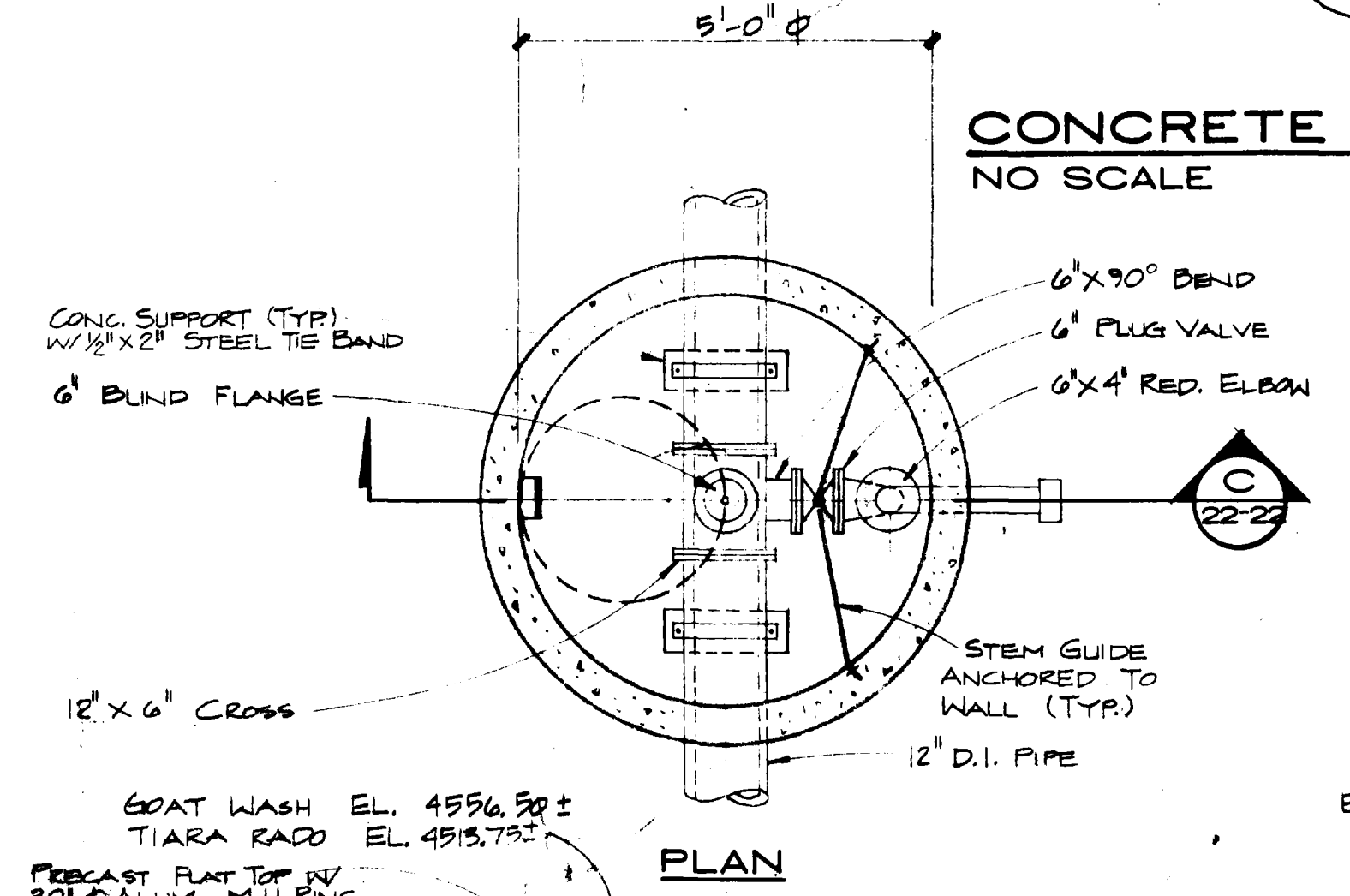
ITEM	DESCRIPTION	TIARA RD.
1	FINAL GRADE	4513.50
2	T.O. FOUNDATION	4486.25
3	E SUCTION	4488.58
4	LOW WATER LEVEL	4490.25
5	I.E. DISCHARGE	4502.00
6	INVERT INLET	4501.89
7	SUCTION INTAKE DIA.	14"
8	HIGH WATER LEVEL	4500.00



SECTION - PUMP STATION

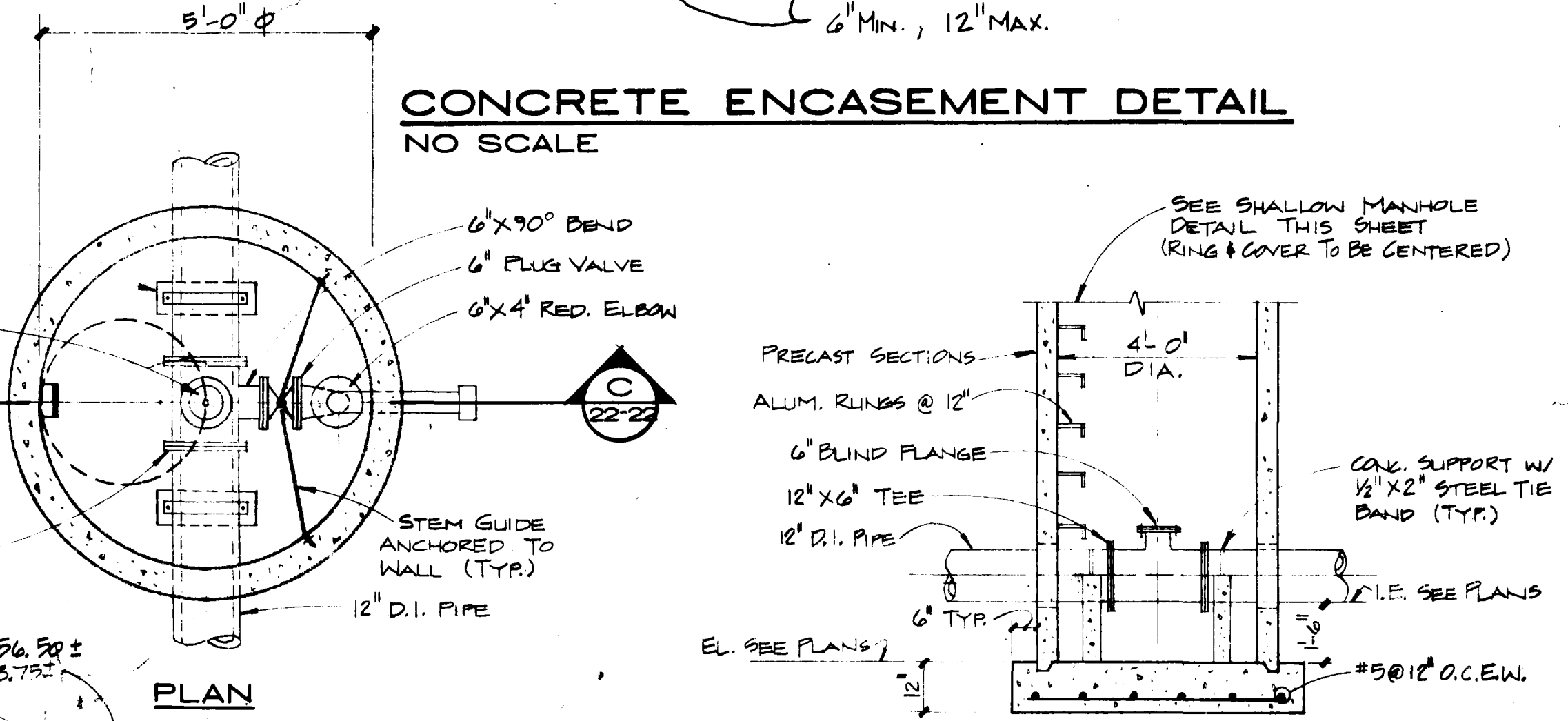


TYPICAL MANHOLE DETAILS NO SCALE



6" FORCE MAIN BLOW-OFF MANHOLE DETAILS

STA: 25+50 TIARA RADO SCALE: 1/2"=1'-0"



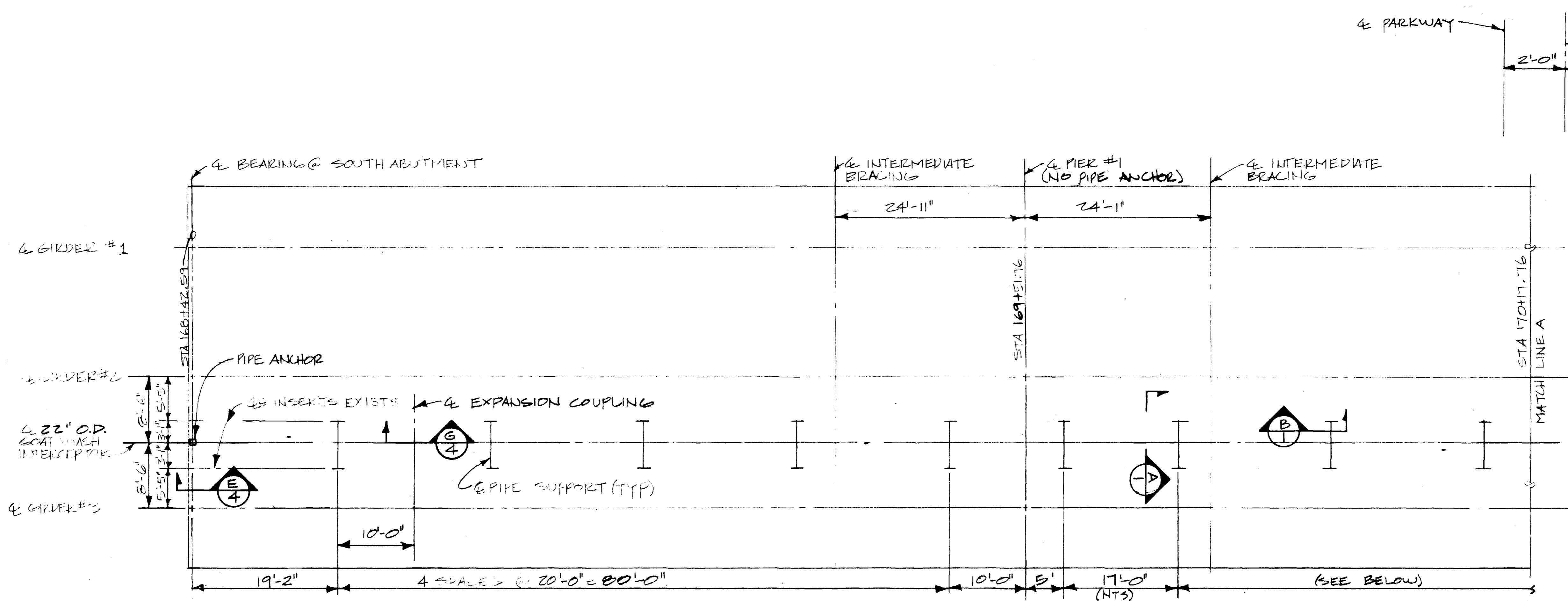
FORCE MAIN CLEAN OUT TEE DETAIL SCALE: 3/8"=1'-0"

GRAND JUNCTION / MESA COUNTY GOAT WASH/TIARA RADO INTERCEPTOR SEWER

LIFT STATION & MISCELLANEOUS DETAILS

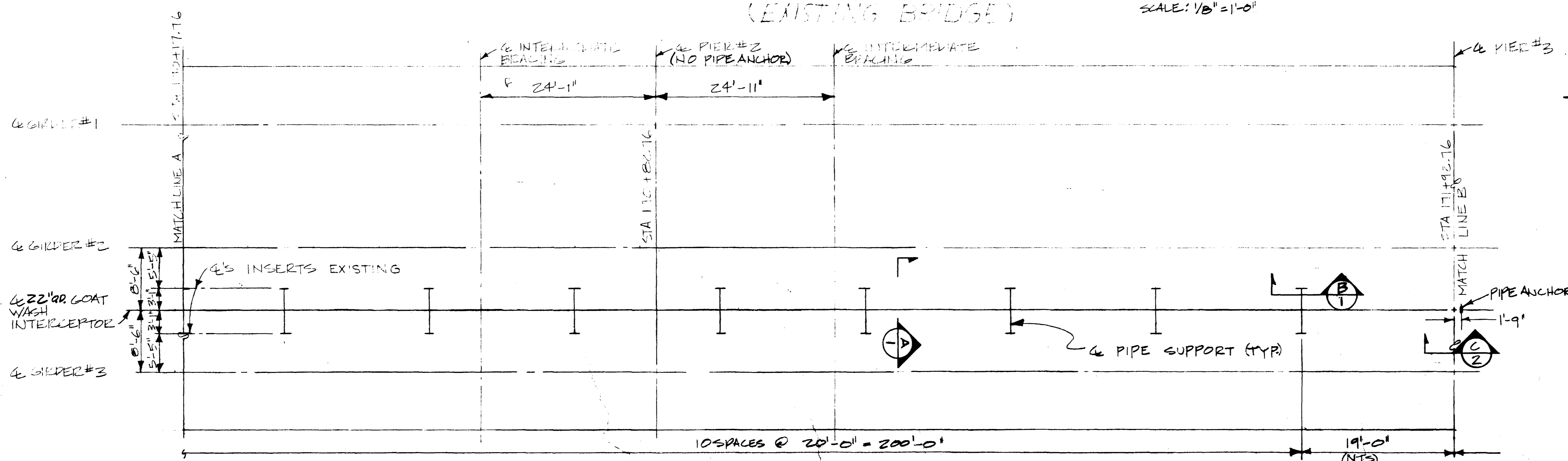
HINNINGSON, DURHAM & RICHARDSON, INC. ENGINEERS - PLANNERS & CONSULTANTS DENVER, COLORADO

DATE	DESCRIPTION	MADE	APPROV.
11/20/04	AS-BUILT		DY, JEA



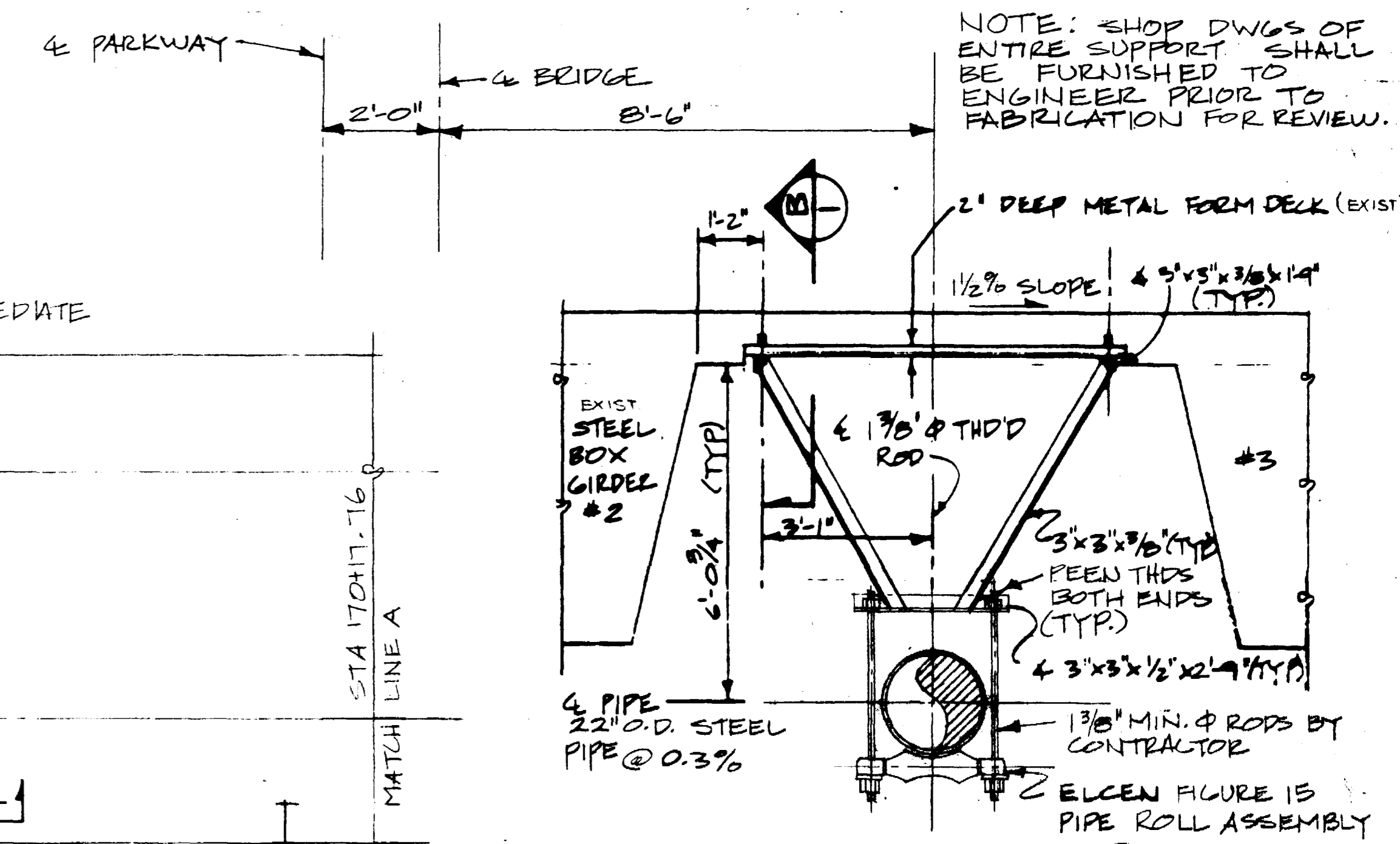
PLAN STA 168+42.59 thru STA 170+7.76
(EXISTING BRIDGE)

SCALE: 1/8" = 1'-0"



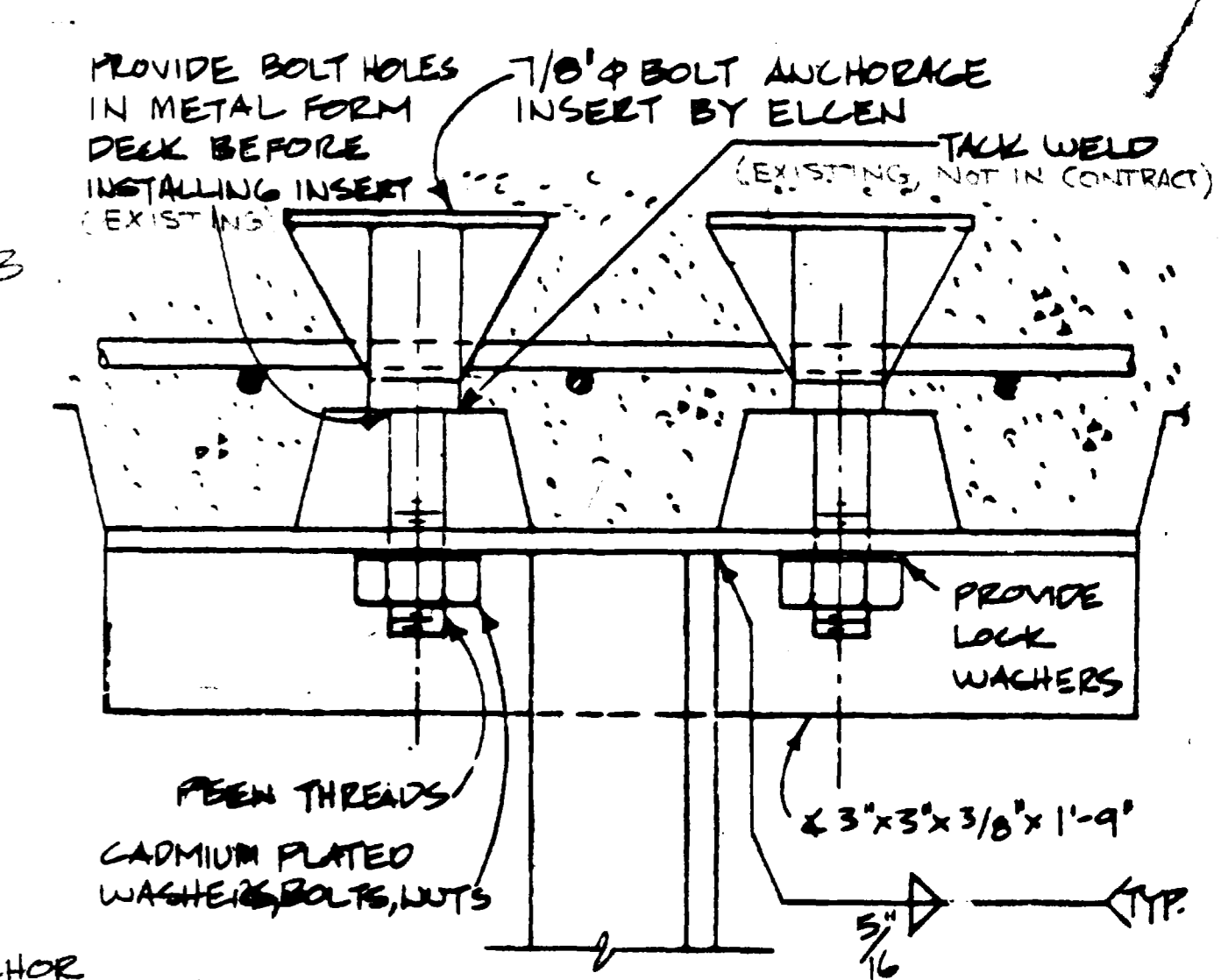
PLAN STA 170+7.76 thru STA 171+92.76
(EXISTING BRIDGE)

SCALE: 1/8" = 1'-0"



TYPICAL SECTION A

NOTE: ALL BOLTED CONNECTIONS SHALL BE FURNISHED WITH LOCK WASHERS.



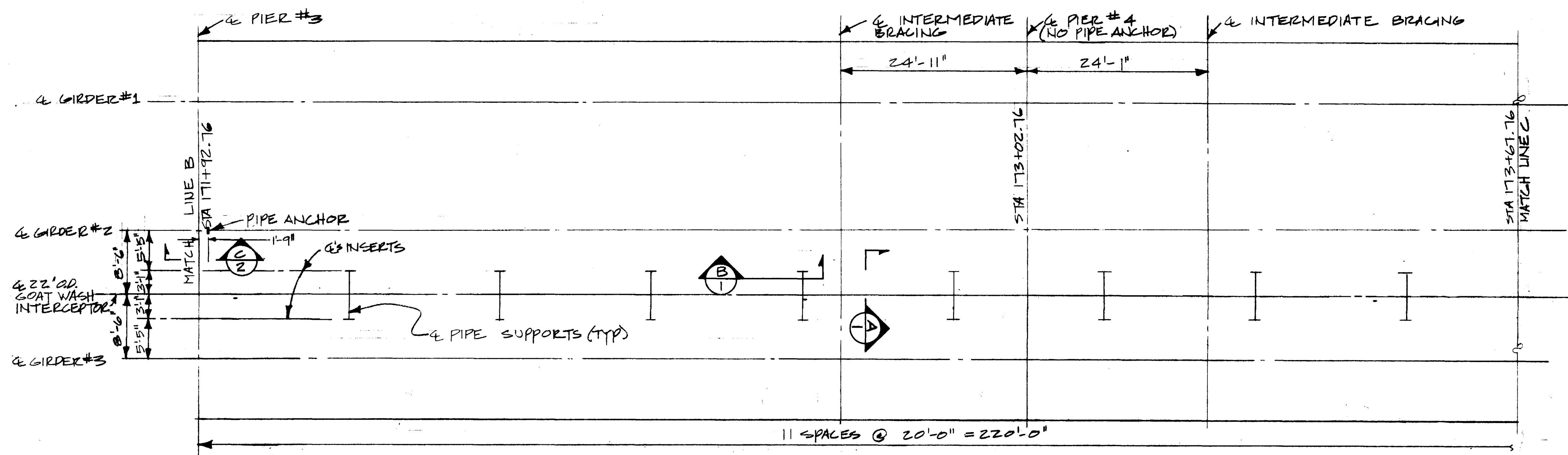
TYPICAL SECTION B

GRAND JUNCTION / MESA COUNTY, COLORADO
GOAT WASH INTERCEPTOR SEWER
(STEEL PIPE)
PIPE SUPPORTS AT
REDLANDS PARKWAY BRIDGE
PLANS DETAILS

HENNINGSON, DURHAM & RICHARDSON, INC.
ENGINEERS • PLANNERS • CONSULTANTS
DENVER, COLORADO

DESIGNED	AS-BUILT	DY	SEA
DATE	DESCRIPTION	MADE	APPROV
	REVISIONS		

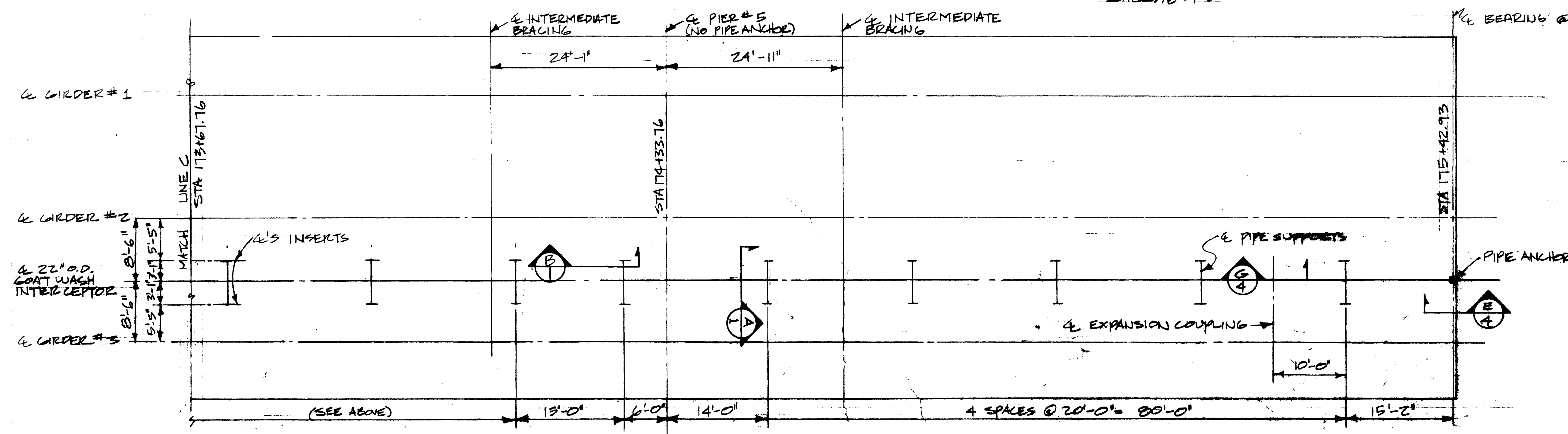
JOB NO. 23-48-10
DATE 6/11/04
SHEET 23 OF 27



PLAN STA 171+92.72 thru STA 173+02.76
(EXISTING BRIDGE)



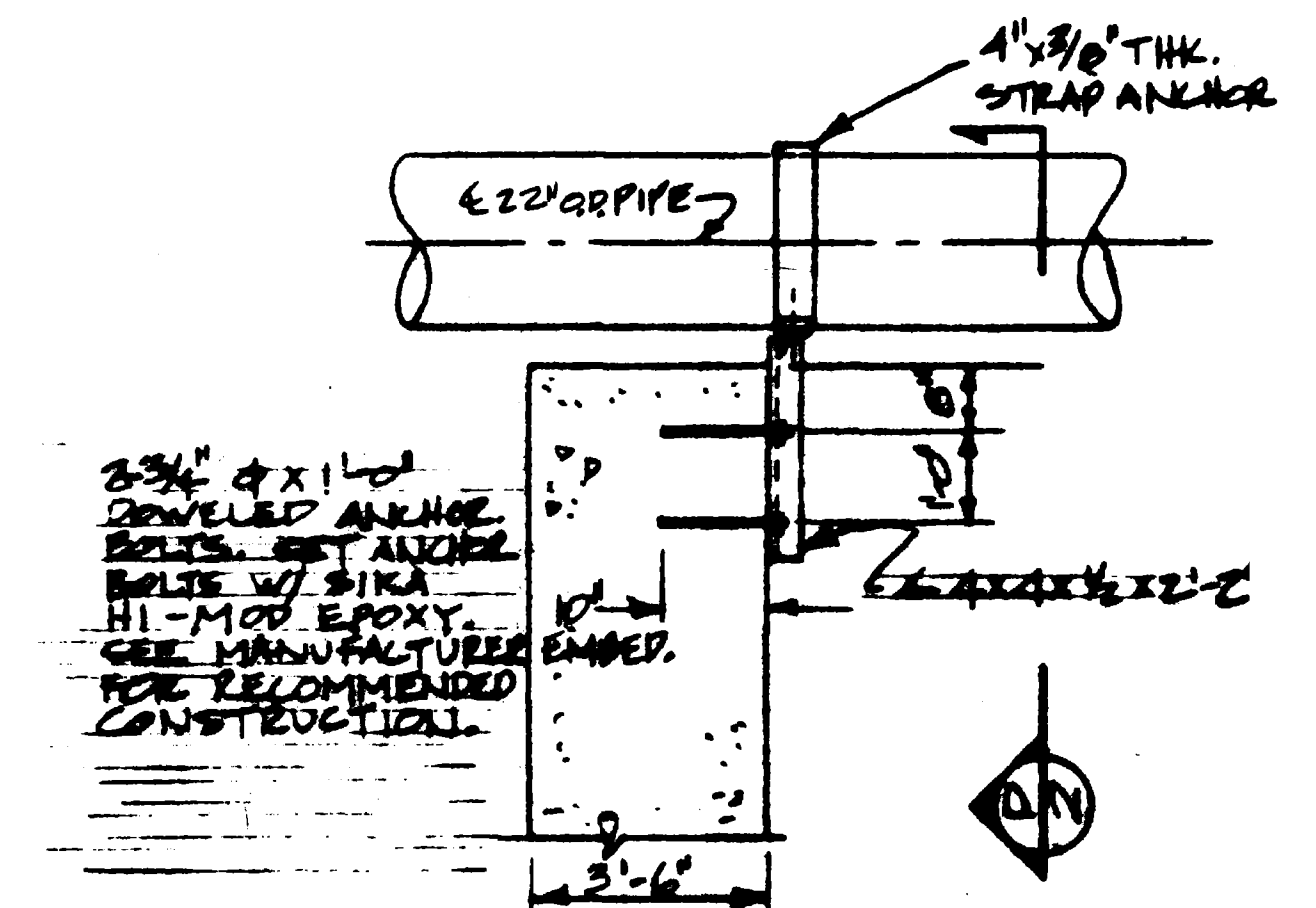
SCALE: 1/8" = 1'-0"



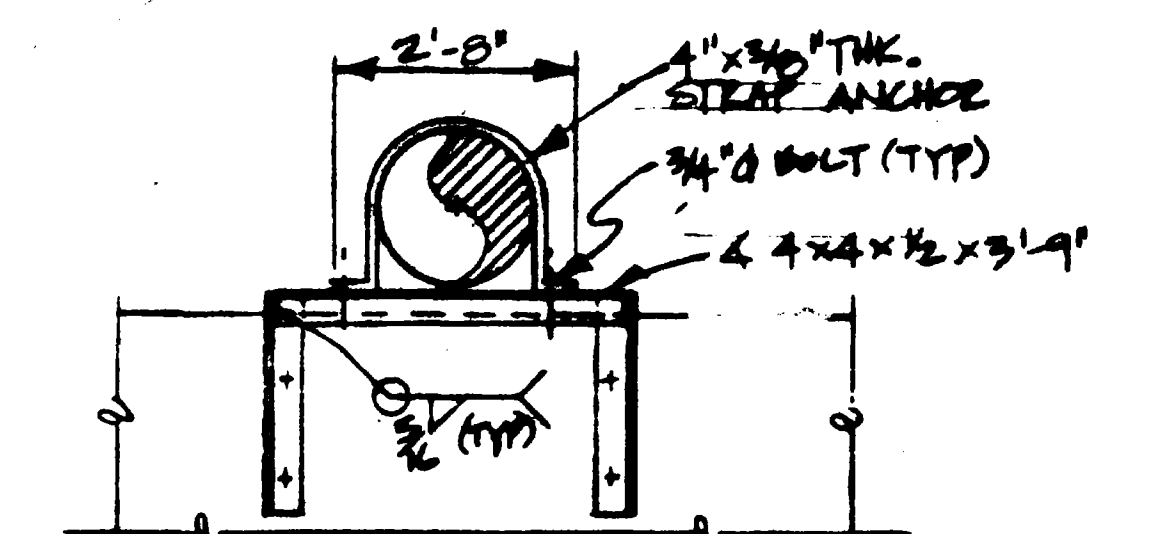
PLAN STA 173+02.76 thru STA 175+42.93
(EXISTING BRIDGE)



SCALE: 1/8" = 1'-0"



SECTION C-2
(PIPE ANCHOR AT PIER #3)



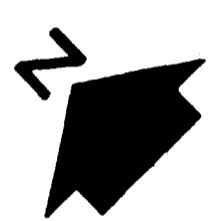
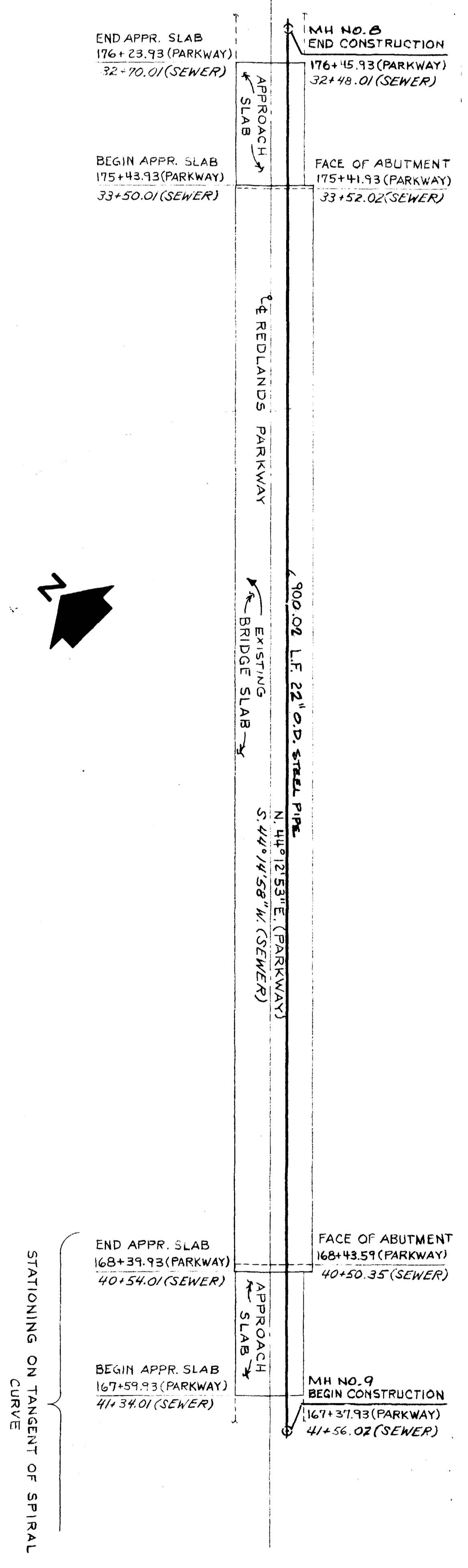
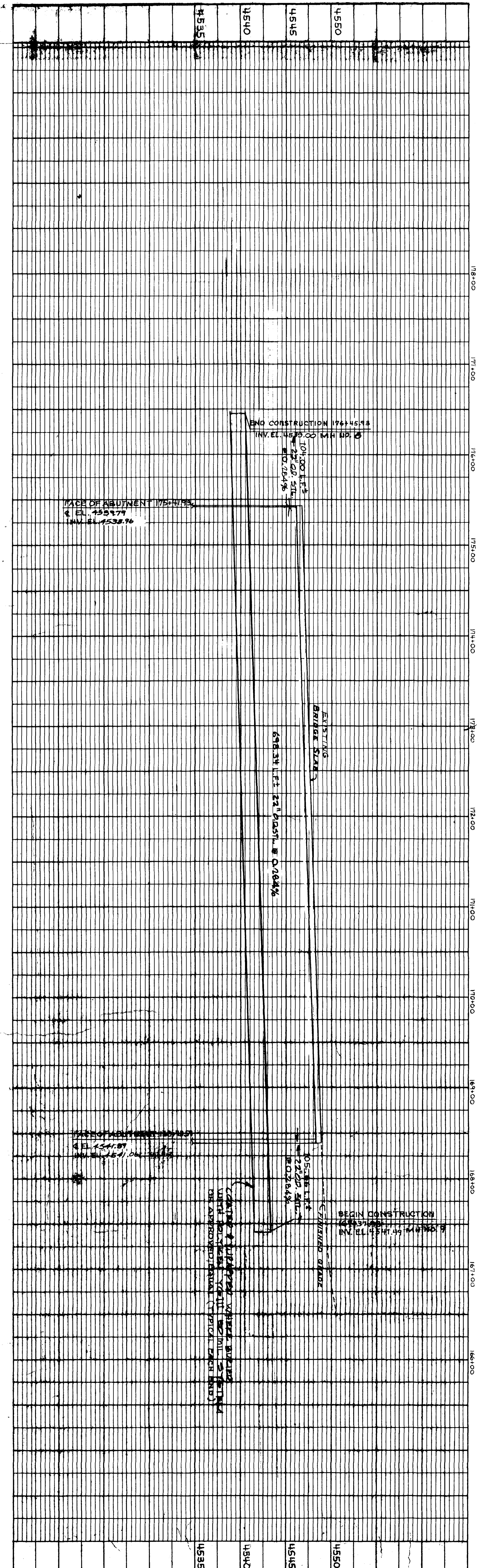
SECTION D-2

GOAT WASH INTERCEPTOR SEWER
(STEEL PIPE)
PIPE SUPPORTS AT REDLANDS PARKWAY BRIDGE
PLANS DETAILS

HINNINGTON, DURHAM & RICHARDSON, INC.
ENGINEERS - PLANNERS - CONSULTANTS
DENVER, COLORADO

NO.	DATE	DESCRIPTION	BY	APPV
1	AS-BUILT			

DATE	APPROVED	DATE	BY
2/1/10	J.B.	2/1/10	J.B.



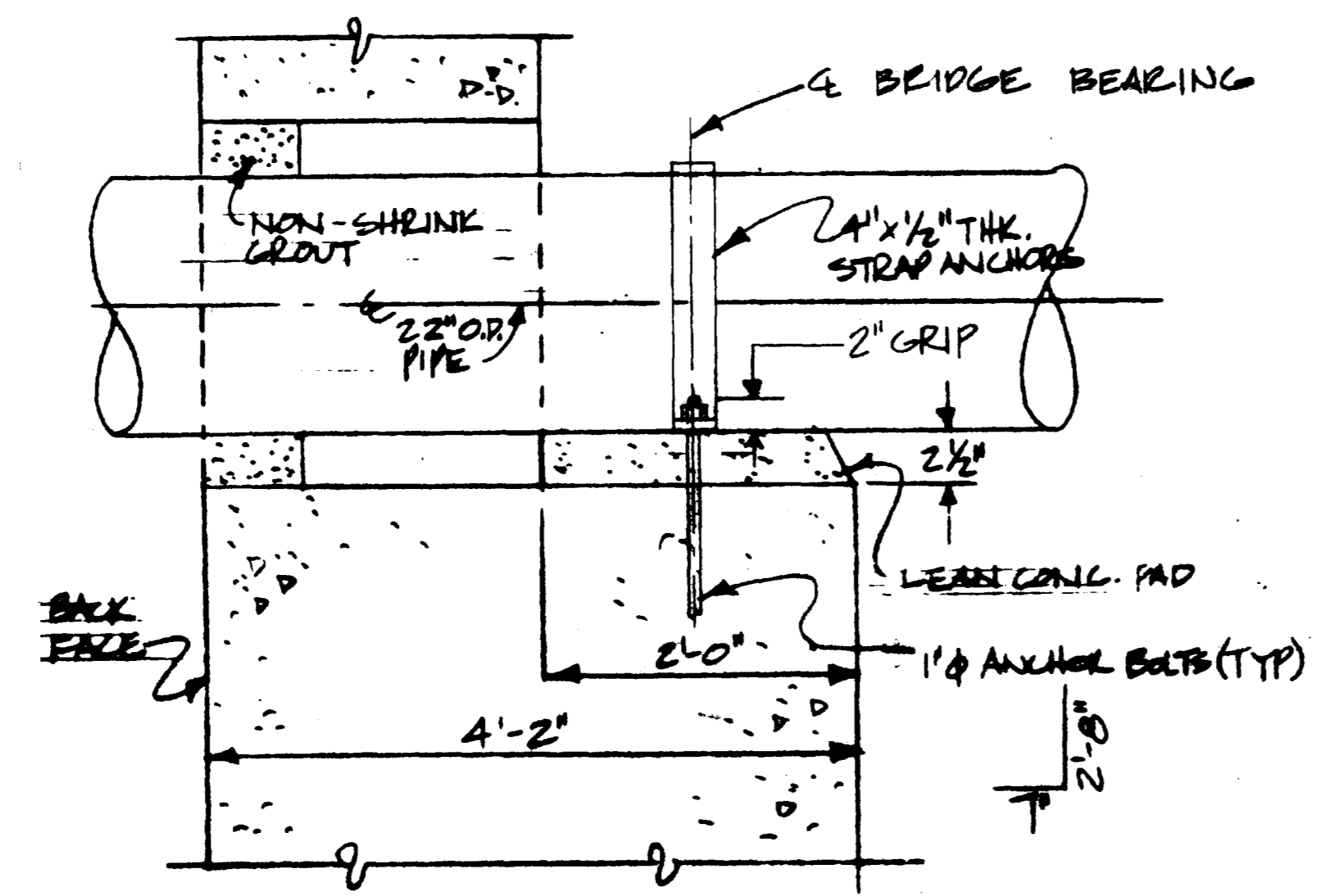
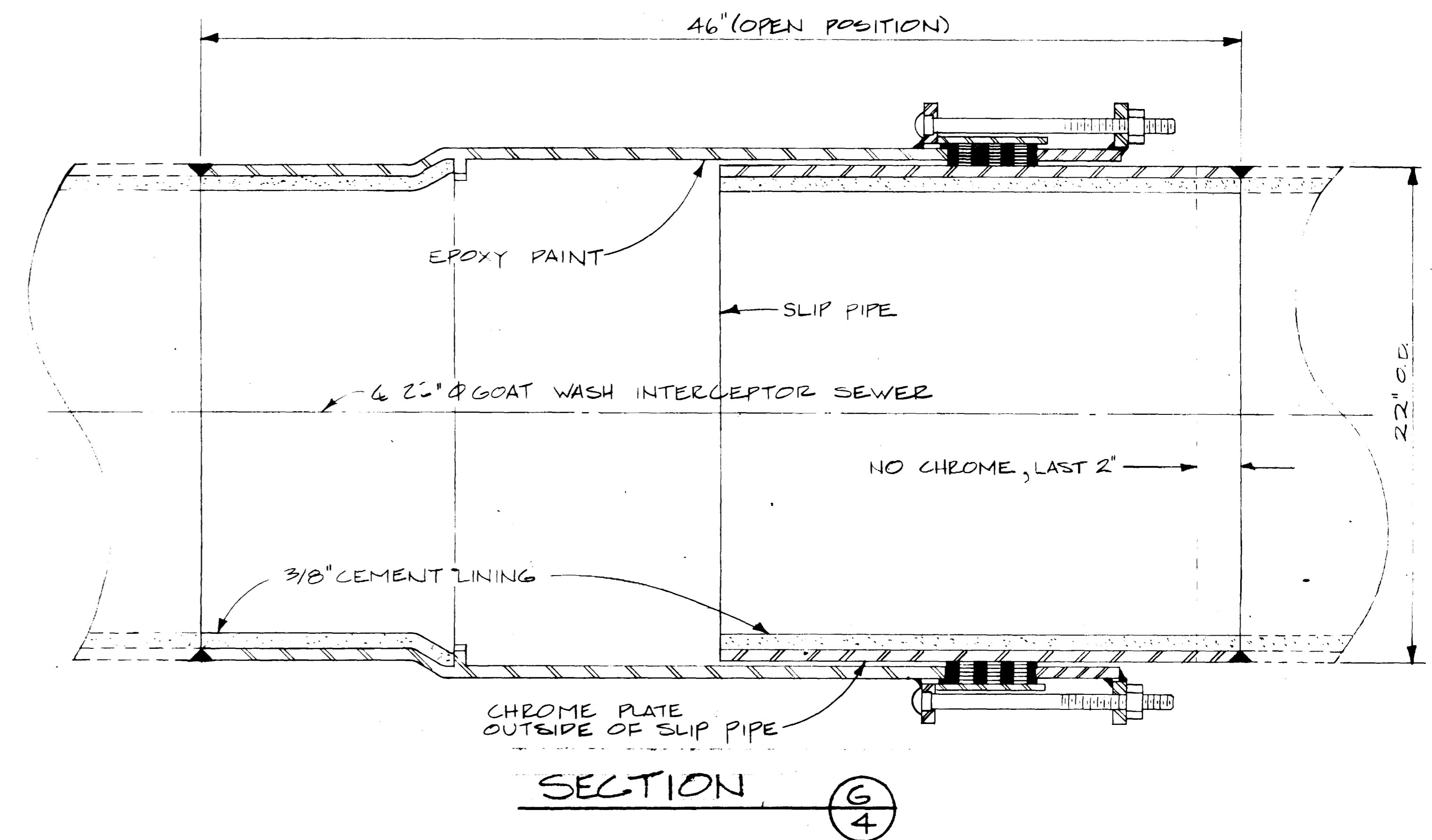
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

GOAT WASH INTERCEPTOR SEWER
(STEEL PIPE)
PLAN & PROFILE
STA. 167+54.93 - STA. 176+28.93
REDLANDS PARKWAY

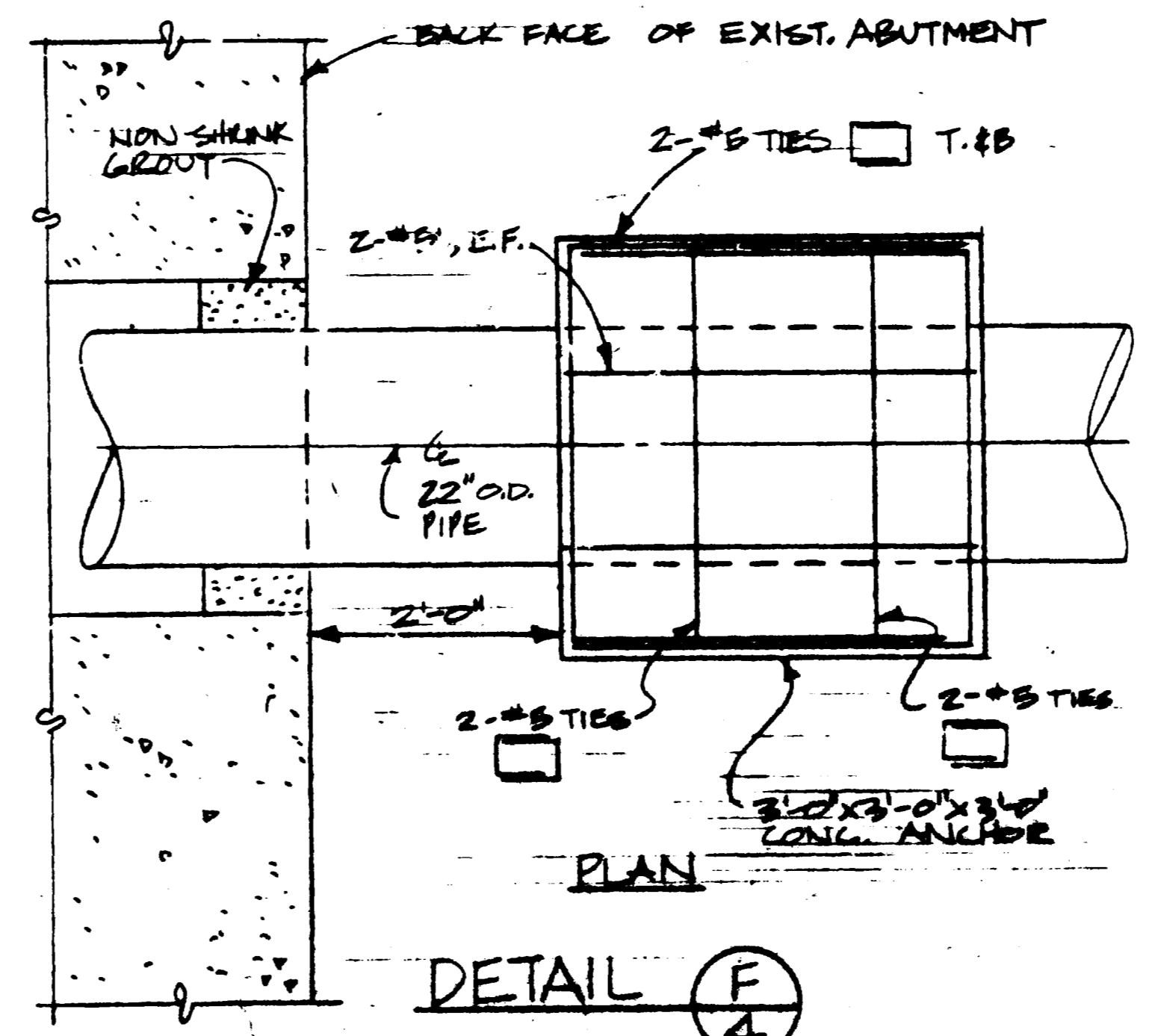
GRAND JUNCTION / MESA COUNTY, COLORADO

AK-BUILT
DY JBA

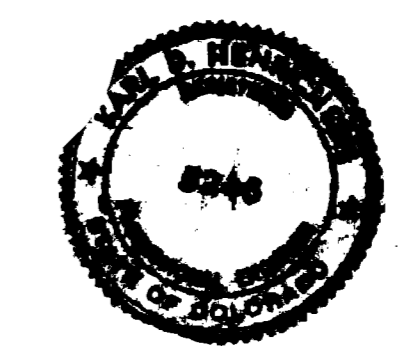
0239425.tiff



SECTION **E**/**4**
 (SEE DETAIL **F**/**4** FOR DETAIL ABUTMENT IF EXIST.)



DETAIL **F**/**4**
 (P. USE WHERE ABUTMENT HAS BEEN CONSTRUCTED)



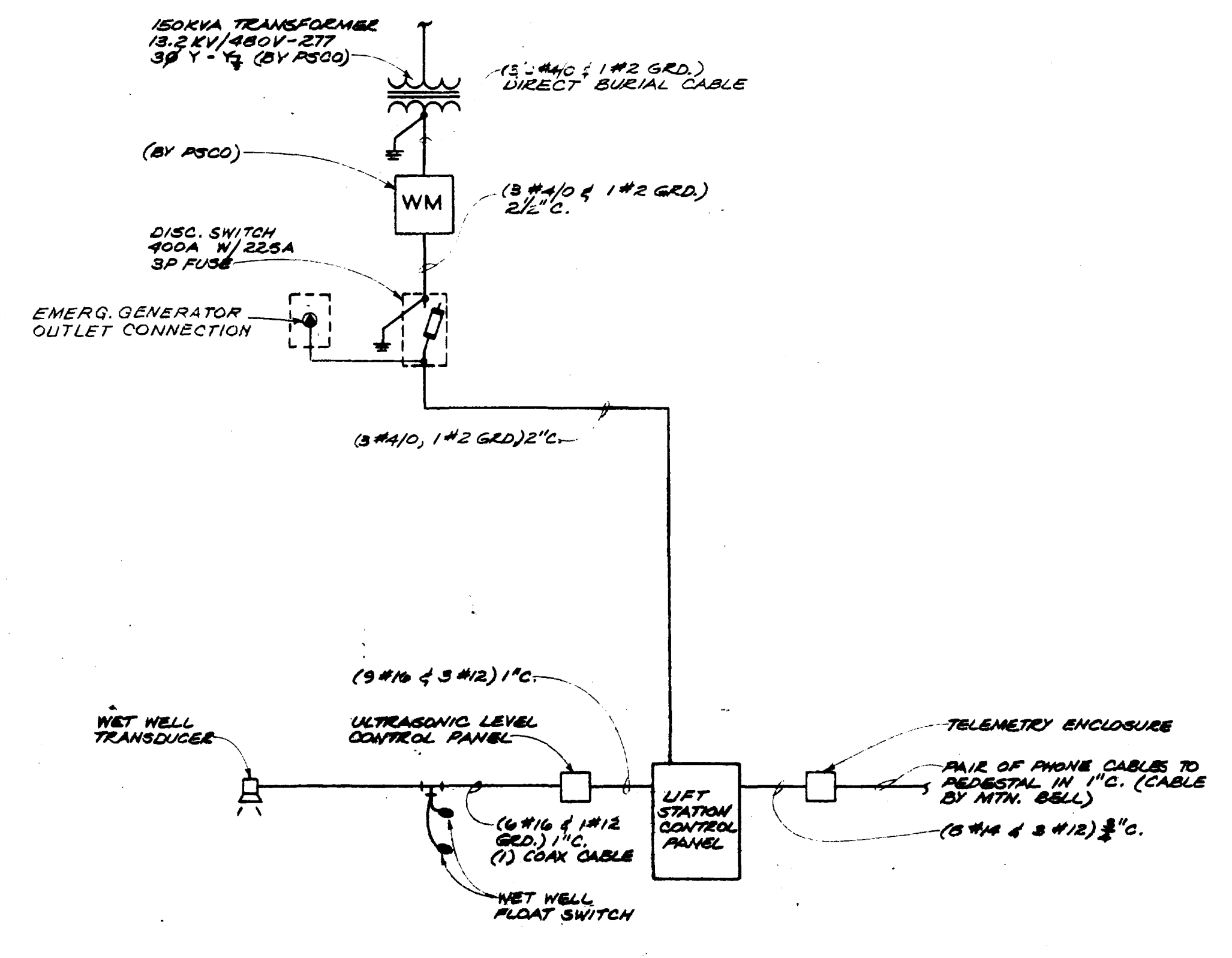
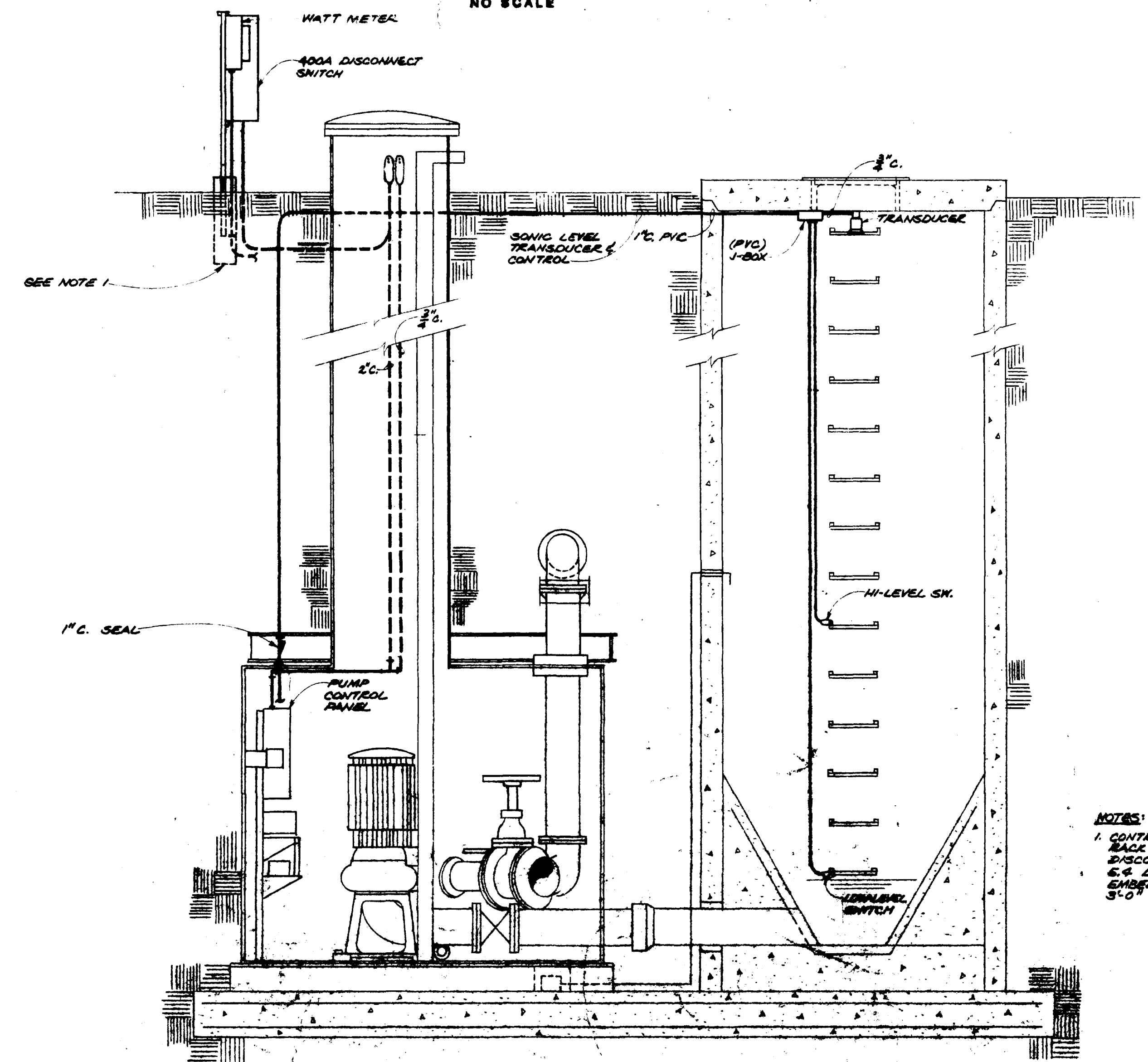
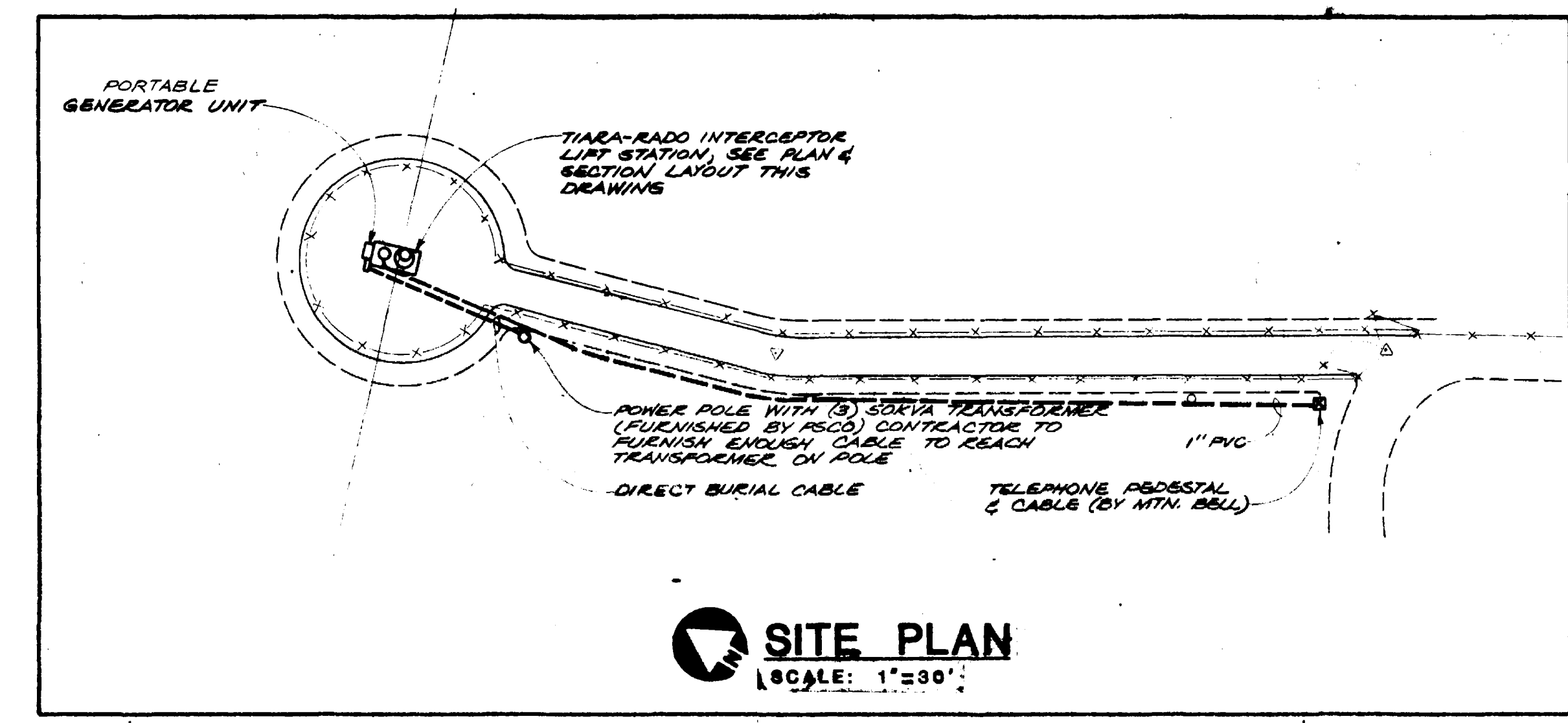
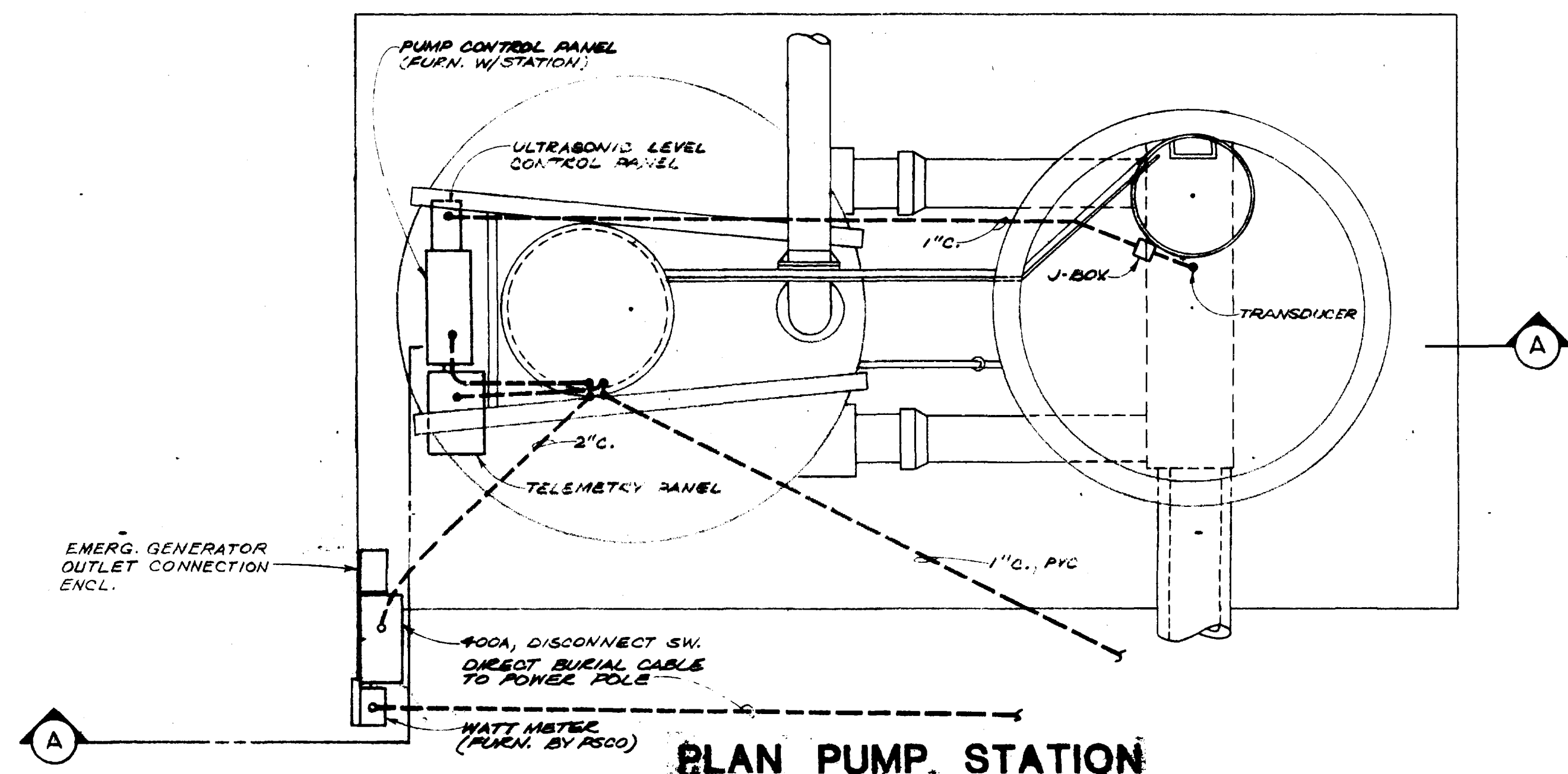
GOAT WASH INTERCEPTOR SEWER
 (STEEL PIPE)
 PIPE SUPPORTS AT
 REDLANDS PARKWAY BRIDGE

DETAILS

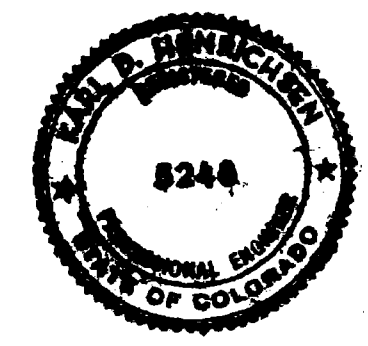
HINNINGSON, DURHAM & RICHARDSON, INC.
 ENGINEERS - PLANNERS - CONSULTANTS
 DENVER, COLORADO

DATE	AS-BUILT	BY	JGA
NO.		MADE	APPROV
DATE	DESCRIPTION	REVISIONS	

JOB	RTS-40-10	DATE	3/27/87
DESIGNED	J.H.	CHECKED	J.V.S.
APPROVED	J.H.	DATE	3/27/87
DETAILS	FK		



NOTES:
 1. CONTRACTOR TO BUILD A (2) POST BACK TO SUPPORT THE A.T.S. AND DISCONNECT SWITCH DEHS E.S. I.E. RAIL CHANNEL, NON EMBEDDED, IN 10" DIAMETER BY 3'-0" DEEP CONCRETE FOOTINGS.



GRAND JUNCTION / MESA COUNTY, COLORADO
TIARA RADO INTERCEPTOR SEWER
 TIARA RADO PUMP STATION
 ELECTRICAL DETAILS

HINNINGSON, DURHAM & RICHARDSON, INC.
 ENGINEERS • PLANNERS • CONSULTANTS
 DENVER, COLORADO

1	1/30/64	AS-BUILT	DY	JEK
2				
3				
4				
5				
6				
7				
8				
9				
10				

JOB DESIGNED D.L.M. CHECKED R.V.S. SHEET
 73-48-10 APPROVED K.D.H. 27 of 27
 DATE AUG. 1962