

C:\INTEL\WATER\WL-INDEX 5/10/94 7:09AM

PACKAGE NO. 1 INDEX OF DRAWINGS

GENERAL NOTES:

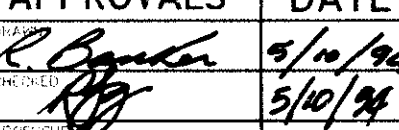
DRAWING	REVISION	DATE	DESCRIPTION	DRAWING	REVISION	DATE	DESCRIPTION
GENERAL							
WL-COVER	1	5/9/94	COVER SHEET				
WL-INDEX	1	5/9/94	DRAWING INDEX				
CIVIL							
WL-ROD13	1	5/9/94	PLAN STA. 0+00 TO STA. 4+76.64 & STA. 6+25.61 TO STA. 10+86.04				
WL-ROD14	1	5/9/94	PLAN STA. 4+76.64 TO STA. 6+25.61				
WL-ROD15	1	5/9/94	PLAN STA. 10+86.04 TO STA. 16+12±				
WL-ROD16	1	5/9/94	PROFILE				
WL-ROD17	1	5/9/94	DETAILS				

REVISION 2 - FIELD BULLETIN No. 1	R.L.G.	5/9/94
REVISION 1 - ADDENDUM No. 1	R.L.G.	5/2/94
ISSUED FOR CONSTRUCTION BID PKG. 1	RLG	4/27/94



BOHANNAN-HUSTON, INC.
ENGINEERS ARCHITECTS PHOTOGRAMMETRISTS SURVEYORS
Courtney I. 7548 Jefferson NE, Albuquerque, NM 87109

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APPROVALS		DATE
		5/10/94
PROJECT		
DRAWING		
REVISION		
APPROVED		
DATE		

NEW MEXICO FCT

intel New Mexico CORPORATION
4100 Sara Road SE
Rd. Excelsior, New Mexico 87124
505 937-7000 Fax 505 945-7084

EAST WATERLINE TO RODI

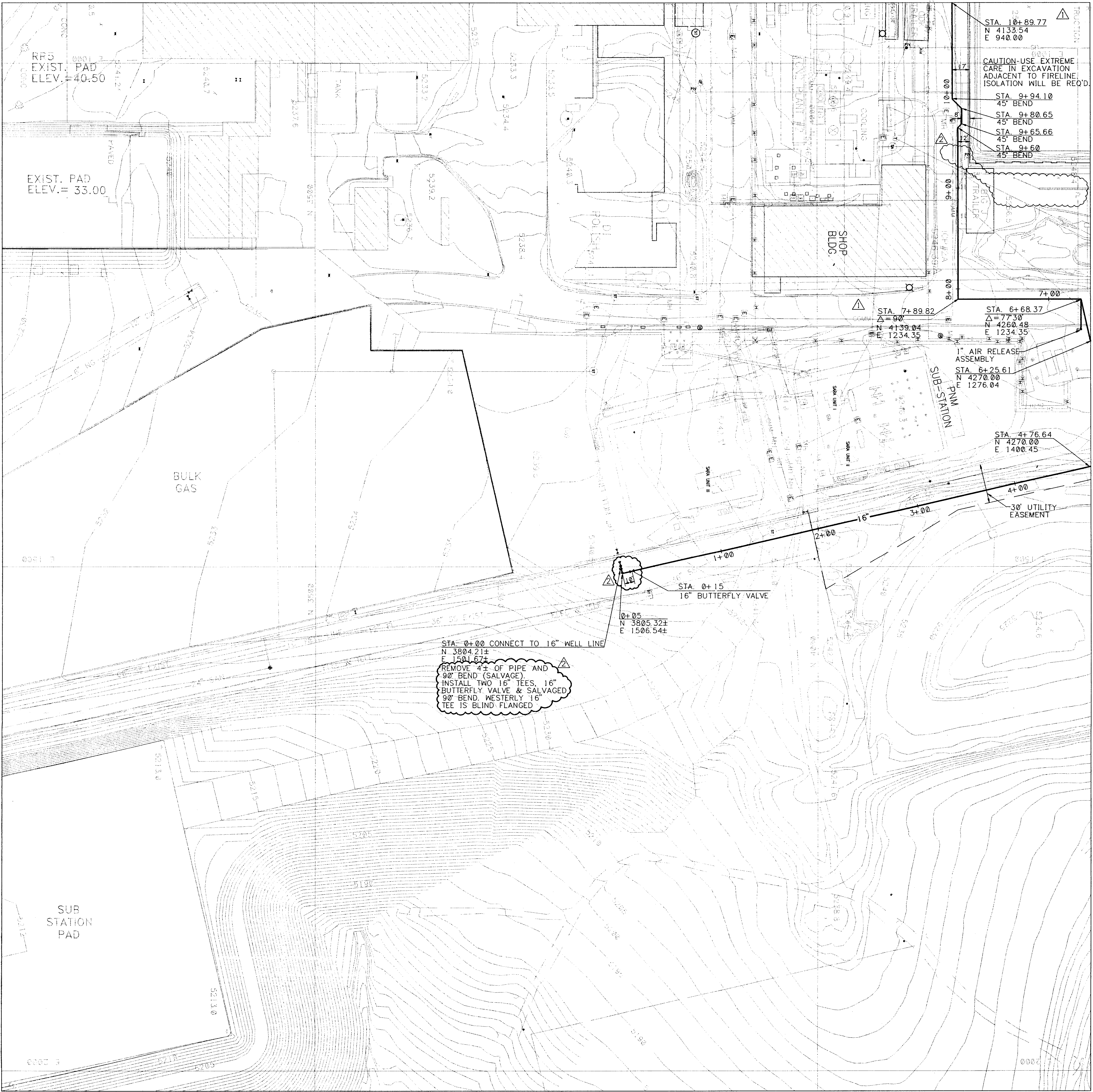
TOP TO	WL-INDEX	DRAWN BY	WL-INDEX
PLT. DATE	1 = 1	SCALE	NONE
DATE		SHEET	2 OF 7

(AREA 11)	(AREA 9)	(AREA 6)	(AREA 3)	(AREA 1)
(AREA 12)	(AREA 10)	(AREA 7)	(AREA 4)	(AREA 2)
		(AREA 8)	(AREA 5)	

KEY PLAN

NOTES:

- A IN ALL PAVED AREAS, THE EXCAVATION, PIPE LAYING AND BACKFILL OPERATIONS SHALL NOT EXCEED 100 FEET. IN PAVED AREAS BACKFILL TRENCH TO WITHIN 3" OF FINISH GRADE AND INSTALL TEMPORARY ASPHALT (COLD MIX) SURFACE UNTIL FINAL PAVING TRENCH REPAIR IS CONSTRUCTED.
- B ALL D.I.P. PIPE JOINTS SHALL BE RESTRAINED WITH MEGALUG TYPE CONNECTIONS OR EQUAL.



REVISION 2 - FIELD BULLETIN No. 1		R.L.G.	5/9/94
REVISION 1 - ADDENDUM No. 1		R.L.G.	5/2/94
ISSUED FOR CONSTRUCTION BID PKG. I		R.L.G.	4/27/94
BOHANNON-HUSTON, INC. ENGINEERS ARCHITECTS PHOTOGRAMMETRISTS SURVEYORS Courtyard I, 7500 Jefferson Ave., Albuquerque, NM 87105			
NEW MEXICO FCT intel CORPORATION 5400 Santa Fe Ave., N.E. P.O. Box 24, Santa Fe, NM 87124 505.833.7000 • Fax 505.833.7005		EAST WATERLINE TO RODI WL-RODI3	
APPROVALS	DATE		
DESIGNED	5/9/94		
CHECKED			
IN CHARGE			
PROJECT	WL-RODI3	WL-RODI3	
SCALE	1" = 40'	1" = 40' 3' 7"	

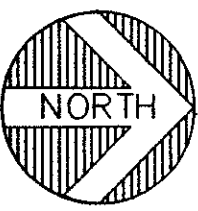


MATCH LINE N4270 SEE AREA 4

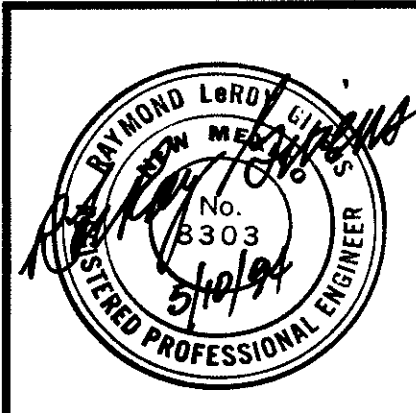
(AREA 11)	(AREA 9)	(AREA 6)	(AREA 3)	(AREA 1)
(AREA 12)	(AREA 10)	(AREA 7)	(AREA 4)	(AREA 2)
		(AREA 8)	(AREA 5)	

KEY PLAN

NOTE: THERE WERE NO CHANGES MADE TO THIS SHEET.



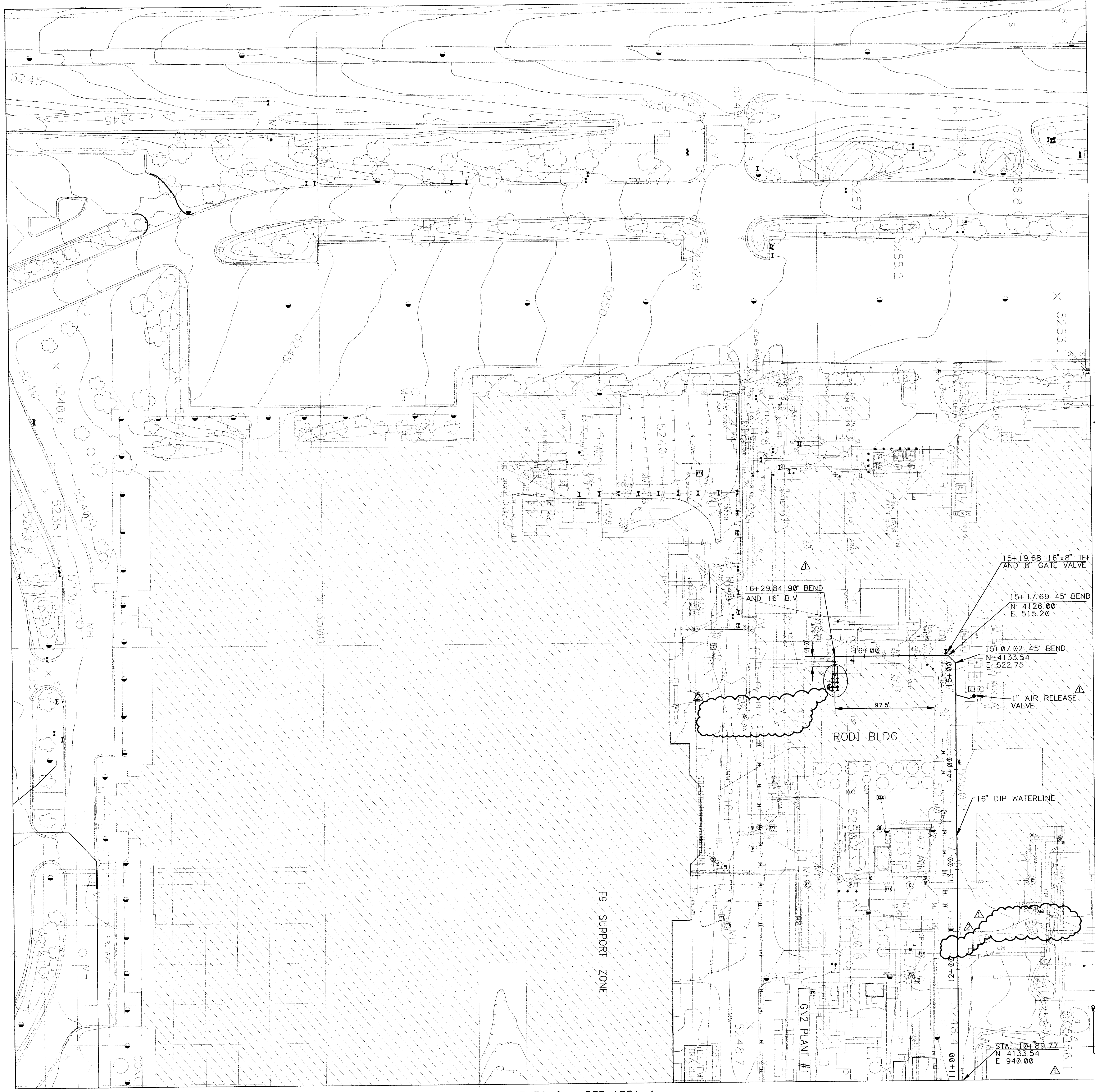
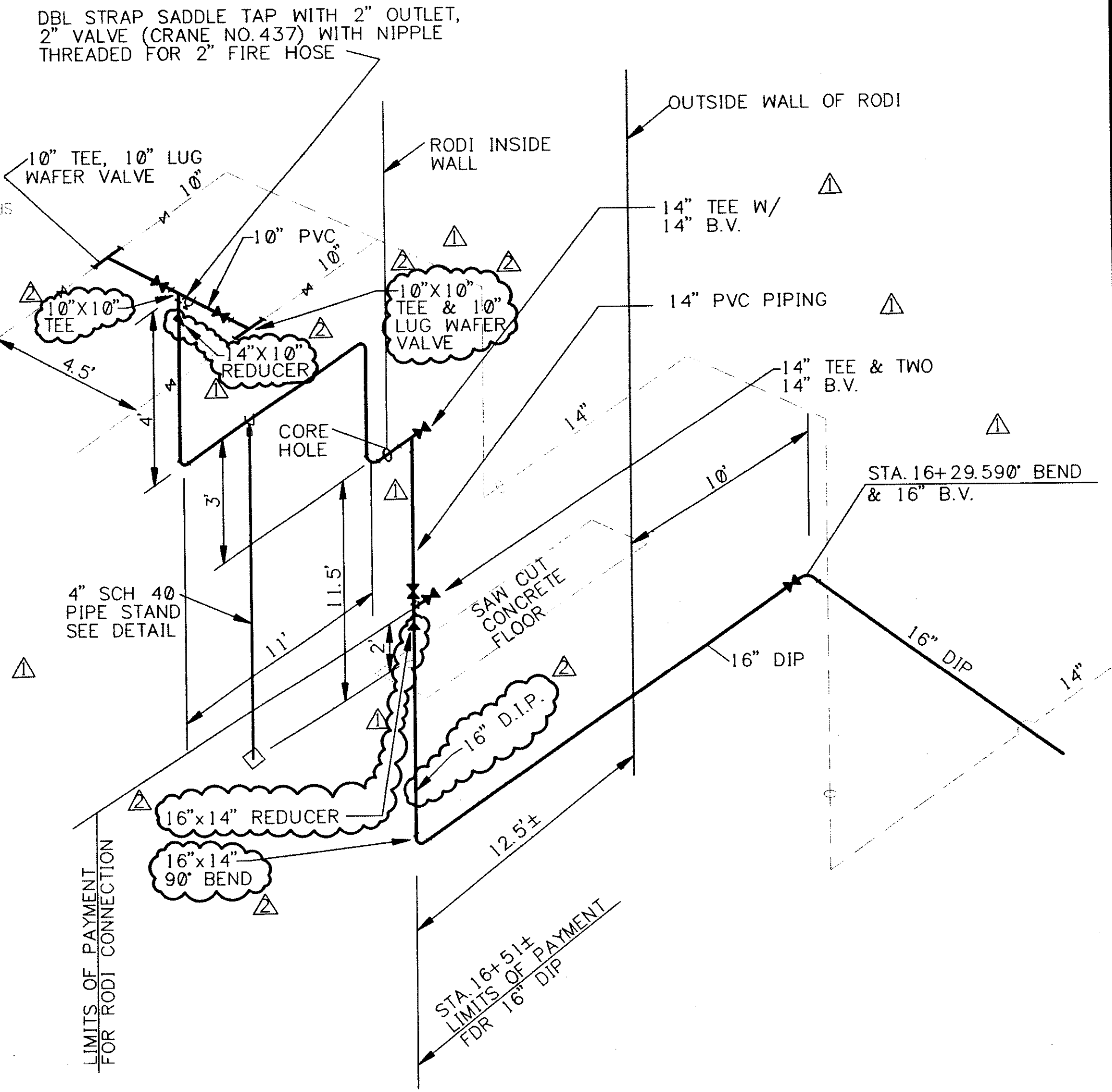
REVISION 2 - FIELD BULLETIN No. 1		R.L.G.	5/9/94
REVISION 1 - ADDENDUM No. 1		R.L.G.	5/2/94
ISSUED FOR CONSTRUCTION BID PKG. 1		R.L.G.	4/27/94
BOHANNAN-HUSTON, INC. ENGINEERS ARCHITECTS PHOTOGRAMMETRISTS SURVEYORS Courtney 1, 7500 Jefferson NE, Albuquerque, NM 87109			
NEW MEXICO FCT		INTEL New Mexico 4100 Skyway SE Albuquerque, NM 87105 505 953-7000 fax 505 953-7001	
APPROVALS	DATE	EAST WATERLINE TO RODI	
DESIGNED BY	5/1/94		
CHECKED BY	5/1/94		
PROJECT NO.		WL-ROD14	WL-ROD14
SHEET NO.		1	4
SCALE		1" = 40'	1" = 40'



(AREA 11)	(AREA 9)	(AREA 6)	(AREA 3)	(AREA 1)
(AREA 12)	(AREA 10)	(AREA 7)	(AREA 4)	(AREA 2)
		(AREA 8)	(AREA 5)	

KEY PLAN

- NOTES:
- A ALL PVC SOLVENT WELD FITTINGS SHALL BE MADE UP, STORED OUTSIDE IN OPEN SUNLIGHT FOR A MINIMUM OF 48 HOURS PRIOR TO INSTALLATION.
 - B CLASS 150 10" FLANGED PVC WITH CONNECTION INSIDE BUILDING. SEE DETAIL BELOW.
 - C ALL PVC FITTINGS SHALL BE MOLDED.
 - D ALL FLUSHING WATER TO BE DISPOSED OF IN SANITARY SEWER IMMEDIATELY WEST OF RODI.



MATCHLINE E940 SEE AREA 4

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BOHANNAN-HUSTON, INC. ENGINEERS ARCHITECTS PHOTOGRAMMETRISTS SURVEYORS Courtyards 1, 7500 Jefferson NE, Albuquerque, NM 87109			
NEW MEXICO FCT			
INTEL New Mexico			
EAST WATERLINE TO RODI			
APPROVALS	DATE		
R.L.G.	5/10/94		
PROJECT	WL-RODI5	WL-RODI5	
DATE	1 = 40	1 = 40	5 7

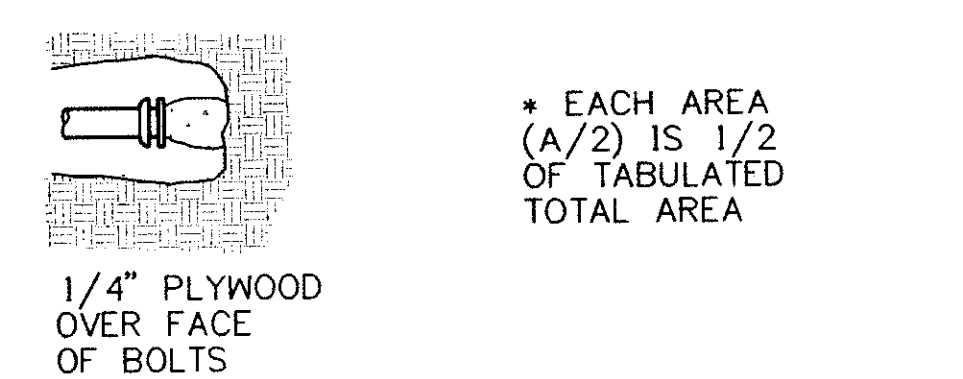
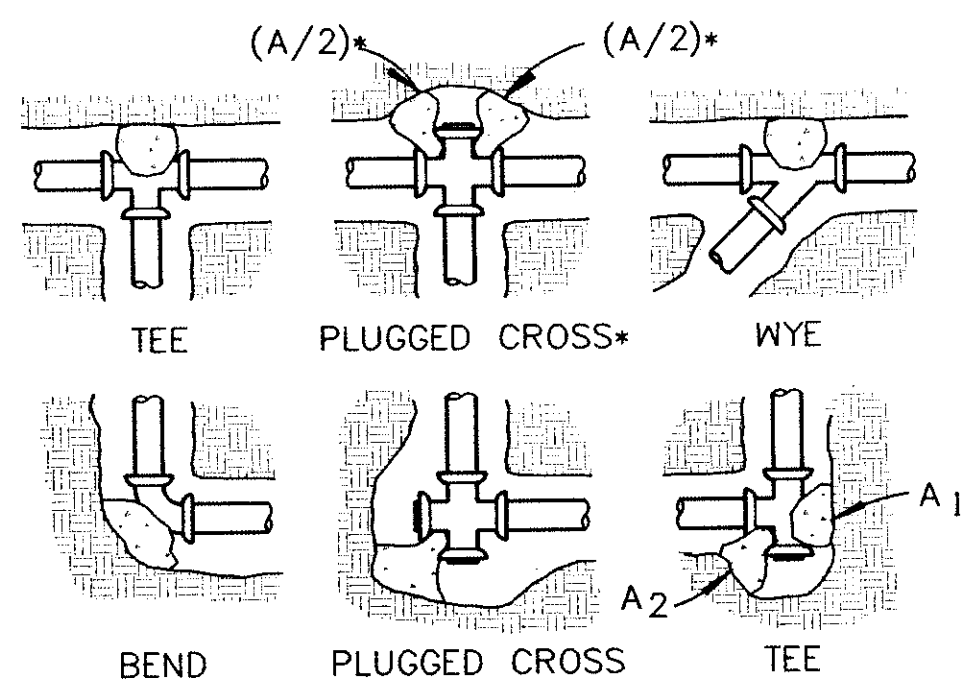
VOLUME OF THRUST BLOCK IN CUBIC YARDS (VERTICAL BENDS)				
FITTING SIZE	BEND ANGLE			
	45°	22 1/2°	11 1/4°	11 1/4°
4	1.1	0.4	0.2	
6	2.7	1.0	0.4	
8	4.0	1.5	0.6	
10	6.0	2.3	0.9	
12	8.5	3.2	1.3	
14	11.5	4.3	1.8	
16	14.8	5.6	2.3	

GALVANIZED RODS OVER
FITTING AND EMBEDDED
IN CONCRETE (SEE
TABLE FOR SIZES)

PROFILE
NTS

FITTING SIZE	ROD SIZE	EMBEDMENT
12" AND LESS	#6	30"
14" - 16"	#8	36"

BEARING AREA OF THRUST BLOCKS IN SQ. FT. (HORIZONTAL BENDS)									
FITTING SIZE	TEE, WYE, PLUG, OR CAP	90° BEND PLUGGED CROSS	TEE PLUGGED ON RUN		BEND ANGLE				
			A1	A2	45°	22 1/2°	11 1/4°	11 1/4°	
4	1.0	1.4	1.9	1.4	1.0	—	—	—	
6	2.1	3.0	4.3	3.0	1.6	1.0	—	—	
8	3.8	5.3	7.6	5.4	2.9	1.5	1.0	—	
10	5.9	8.4	11.8	8.4	4.6	2.4	1.2	—	
12	8.5	12.0	17.0	12.0	6.6	3.4	1.7	—	
14	11.5	16.3	23.0	16.3	8.9	4.6	2.3	—	
16	15.0	21.3	30.0	21.3	11.6	6.0	3.0	—	
18	19.0	27.0	38.0	27.0	14.6	7.6	3.8	—	
20	23.5	33.3	47.0	33.3	18.1	9.4	4.7	—	
24	34.0	48.0	68.0	48.0	26.2	13.6	6.8	—	



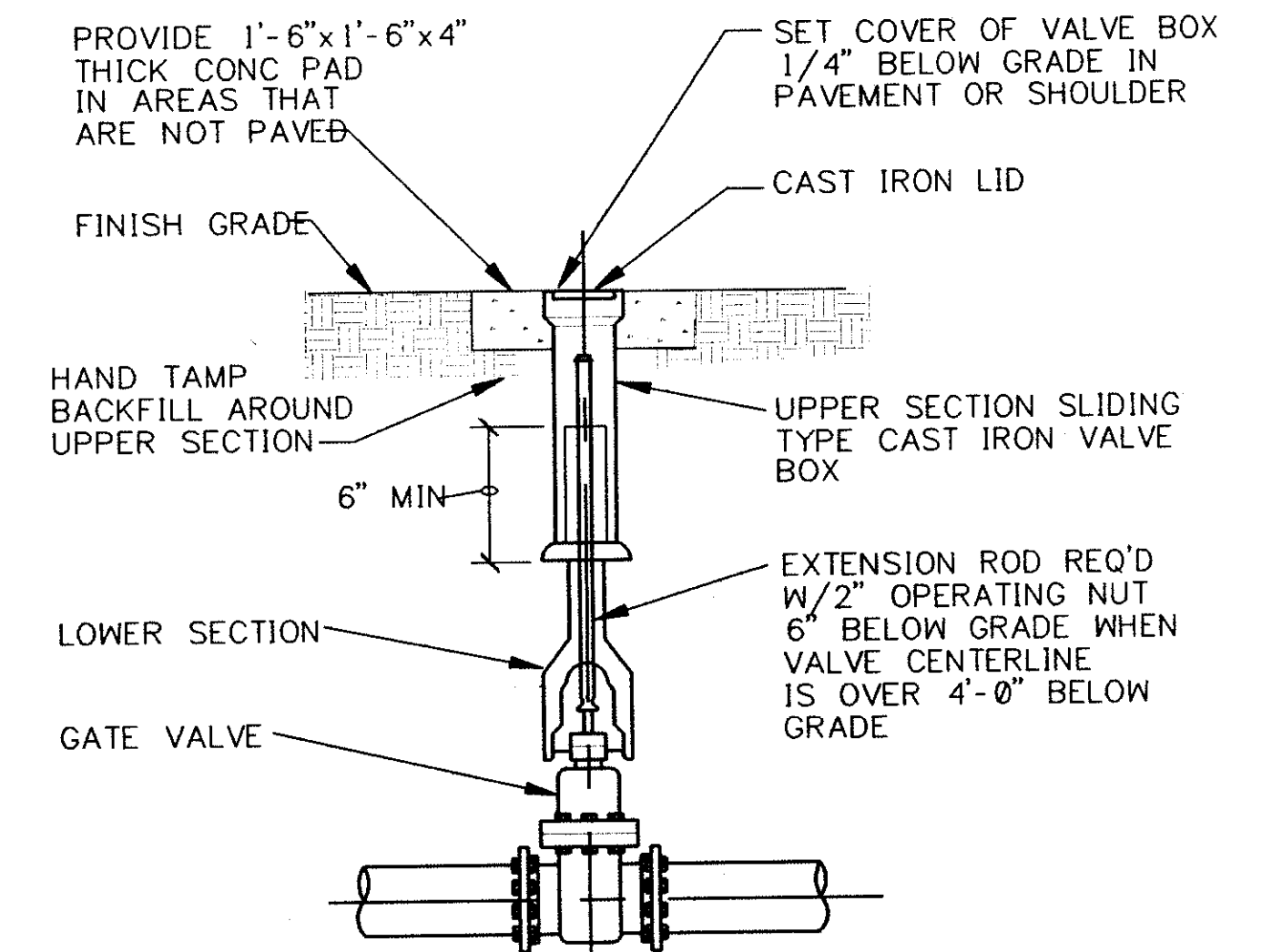
THRUST BLOCK DETAILS

NTS

1. KEEP CONCRETE CLEAR OF JOINT AND JOINT ACCESSORIES.
2. CONCRETE THRUST BLOCKING SHALL BE POURED AGAINST UNDISTURBED EARTH.
3. REQUIRED VOLUMES OR BEARING AREAS AT FITTINGS SHALL BE AS SPECIFIED, AND ADJUSTED AS NECESSARY, TO CONFORM TO THE TEST PRESSURE(S) AND ALLOWABLE SOIL BEARING STRESS(ES) STATED IN THE SPECIFICATIONS.
4. THRUST BLOCK VOLUMES FOR VERTICAL BENDS HAVING UPWARD RESULTANT THRUSTS ARE BASED ON TEST PRESSURES OF 150 PSIG AND THE WEIGHT OF CONCRETE = 4050 LBS/CU YD. TO COMPUTE VOLUMES FOR DIFFERENT TEST PRESSURES, USE THE FOLLOWING EQUATION :
VOLUME = (TEST PRESS./150) x (TABLE VALUE)
5. BEARING AREAS FOR HORIZONTAL BEND THRUST BLOCKS ARE BASED ON TEST PRESSURE OF 150 PSIG AND AN ALLOWABLE SOIL BEARING STRESS OF 2000 LBS/SQ FT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION: BEARING AREA = (TEST PRESS./150) x (2000/SOIL BEARING STRESS) x (TABLE VALUE).
6. THRUST BLOCKS FOR VERTICAL BENDS HAVING DOWNWARD RESULTANT THRUSTS SHALL BE THE SAME AS FOR HORIZONTAL BENDS.
7. BEARING AREAS, VOLUMES, AND SPECIAL BLOCKING DETAILS SHOWN ON PLANS TAKE PRECEDENCE OVER THIS STANDARD.
8. BEARING AREA OF THRUST BLOCK SHALL NOT BE LESS THAN 1.0 SQ FT.
9. VERTICAL BENDS THAT REQUIRE A THRUST BLOCK VOLUME EXCEEDING 5 CUBIC YARDS REQUIRE SPECIAL BLOCKING. SEE PLANS.
10. PLEASE NOTE THAT ALL FIRELINES, ICW LINES, WELL LINES, COLD WATER LINES AND PUMPED LINES REQUIRE RESTRAINED JOINTS. THE USE OF THRUST BLOCKING SHALL BE RESTRICTED TO IRRIGATION LINE WHERE NOT IN UTILITY CORRIDORS.

THRUST BLOCK NOTES

NTS

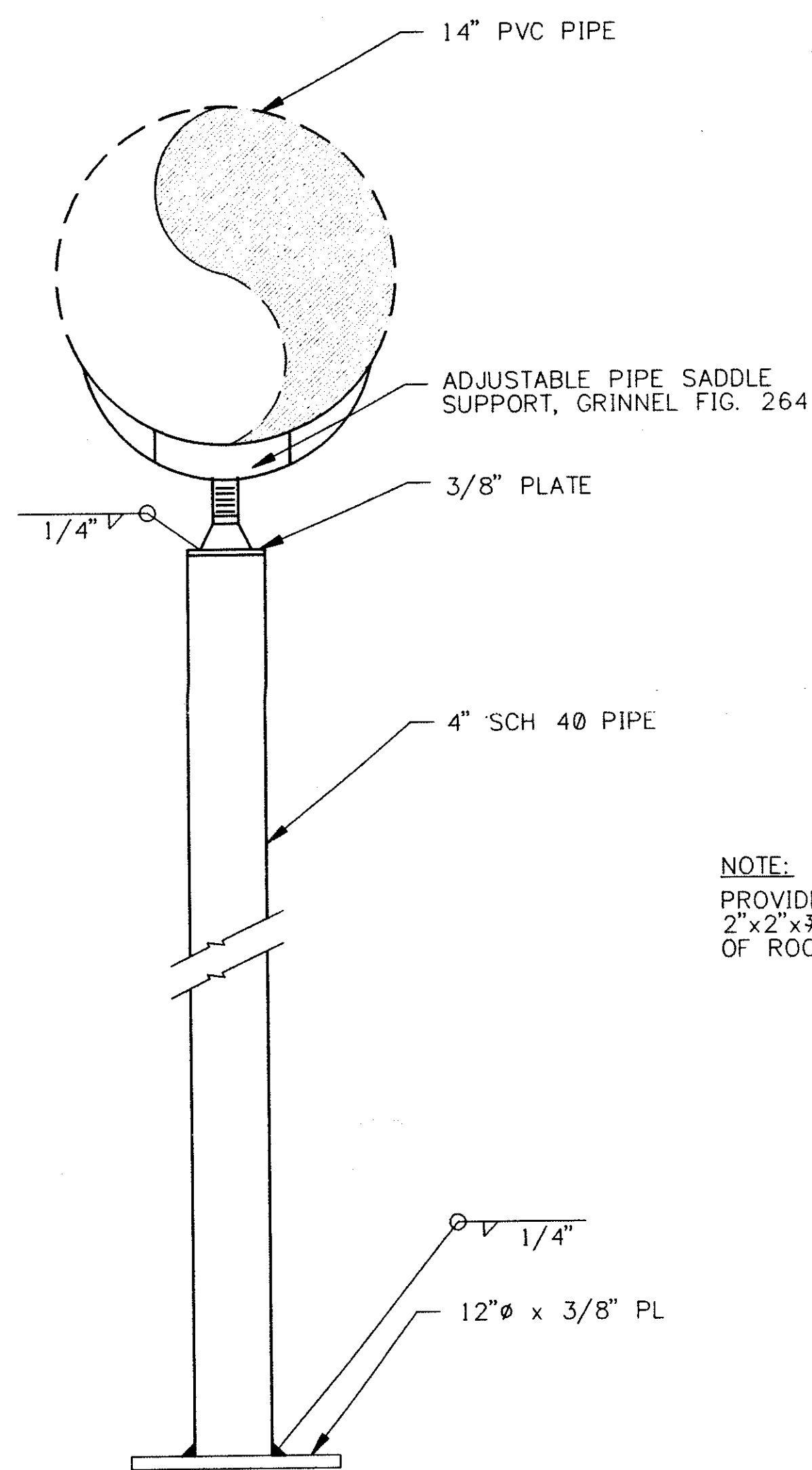


VALVE BOX DETAIL

NTS

THRUST BLOCK DETAILS AND NOTES

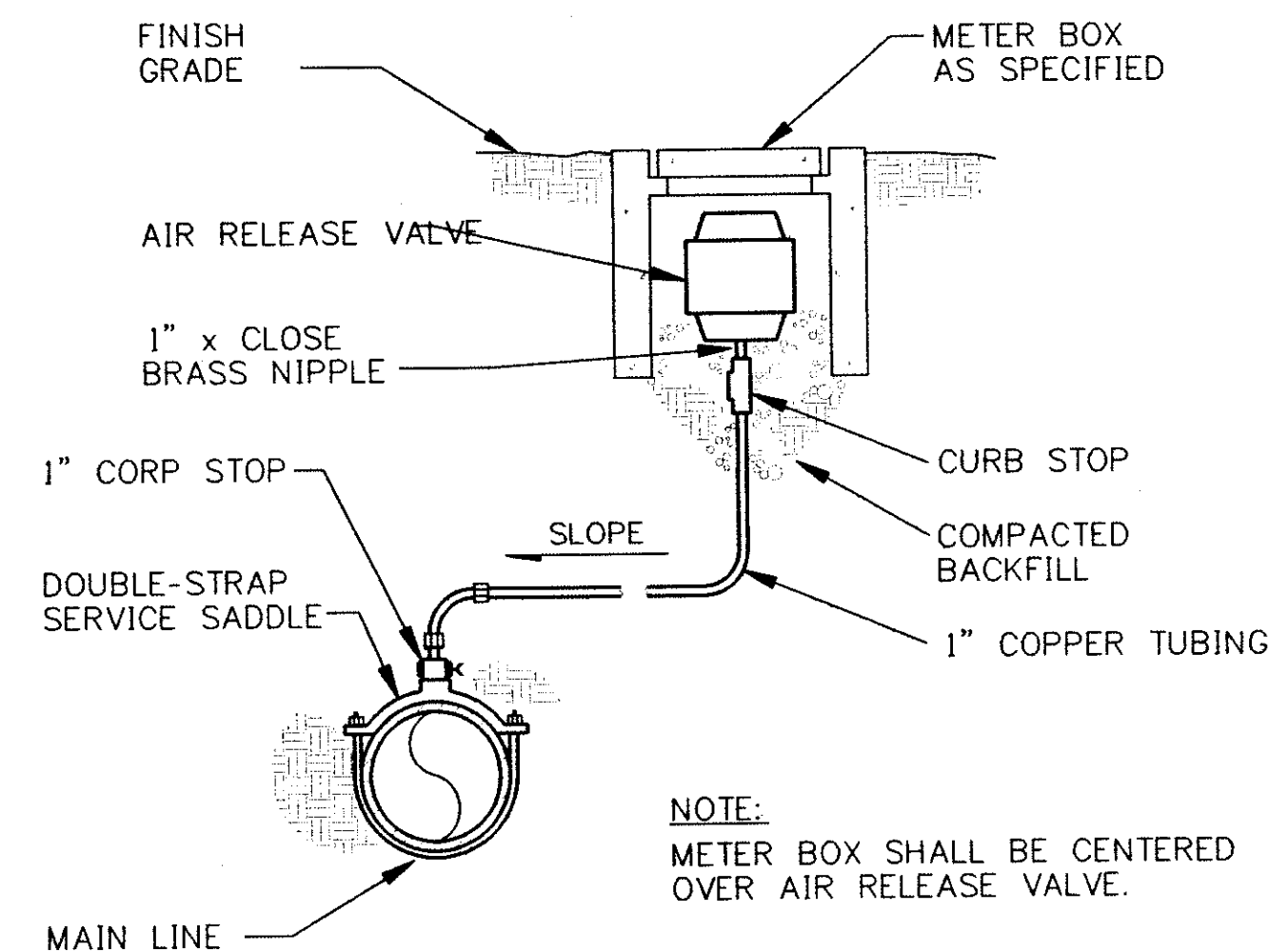
NTS



NOTE:
PROVIDE LATERAL SUPPORT WITH (4)
2"x2"x96" ANGLE & PLATE TO BOTTOM
OF ROOF DOUBLE TEES. CUT TO FIT IN FIELD.

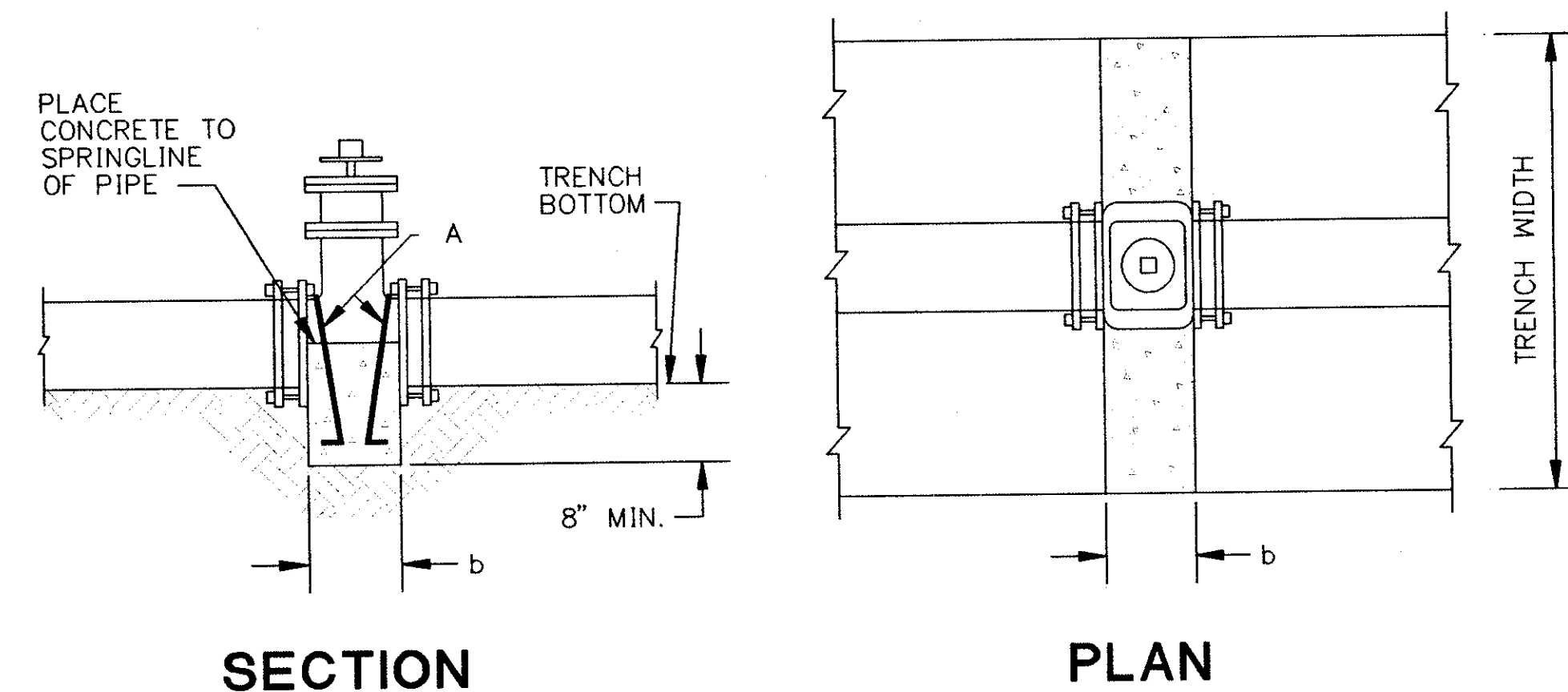
ADJUSTABLE PIPE SUPPORT

NTS



AIR RELEASE VALVE ASSEMBLY

NTS



WATER VALVE ANCHORAGE

NTS

GENERAL NOTES:

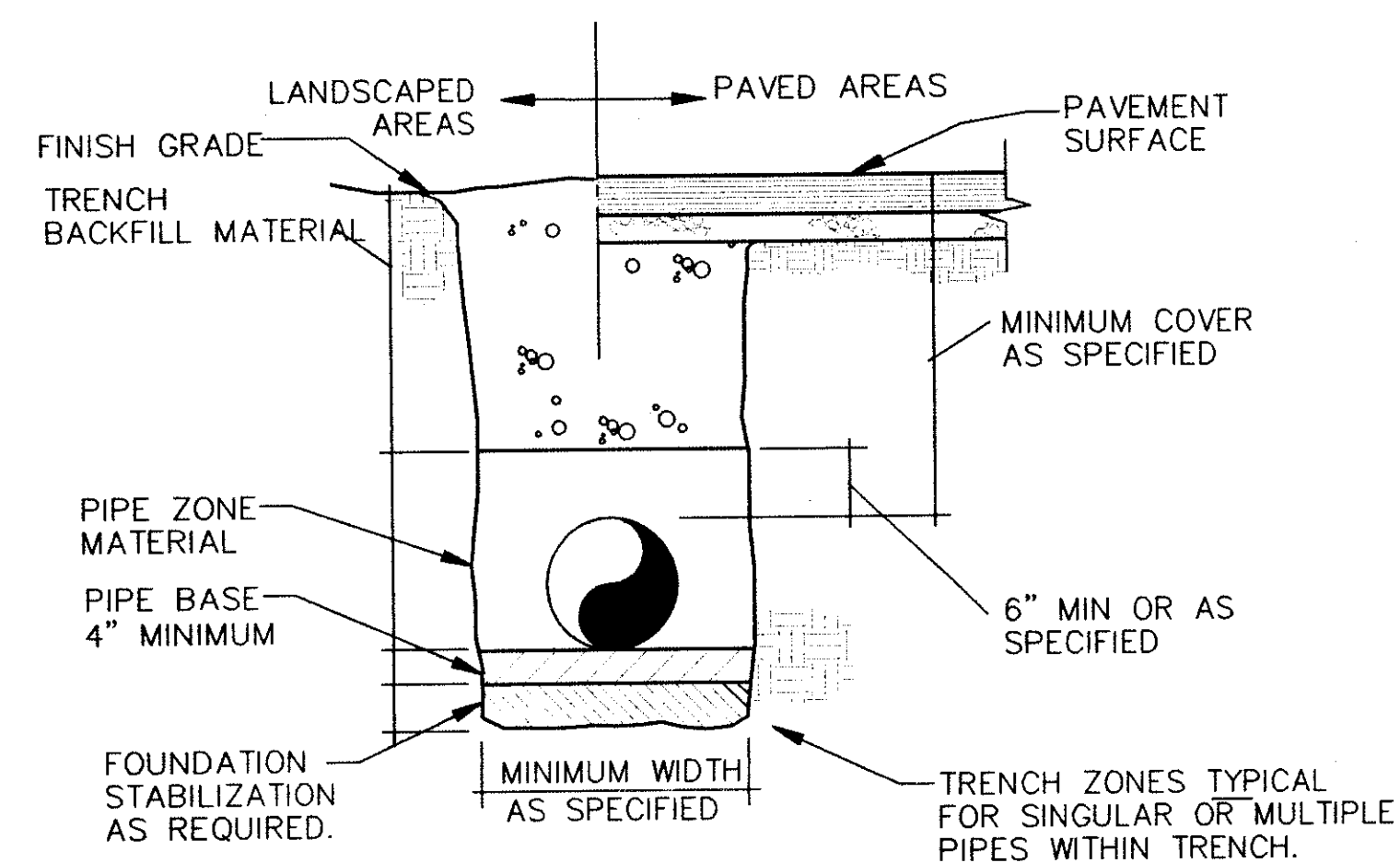
1. THE ENGINEER SHALL PROVIDE DESIGN FOR ALL VALVES GREATER THAN 12".

PIPE SIZE	DIM. b
6"	8"
8"	9"
10"	10"
12"	10"
16"	12"

CONSTRUCTION NOTES:

- A. TWO NO. 4 BARS FOR VALVE STRAPS WITH 3" HOOKS. HOOKS TO BE EMBEDDED BELOW BOTTOM OF PIPE. BARS TO BE COATED WITH BITUMINOUS MATERIAL TO PREVENT CORROSION.

NOTE: THERE WERE NO CHANGES MADE TO THIS SHEET.



TYPICAL TRENCH

NTS

REVISION 2 - FIELD BULLETIN No. 1		R.L.G.	5/9/94
REVISION 1 - ADDENDUM No. 1		R.L.G.	5/2/94
ISSUED FOR CONSTRUCTION BID PKG. 1		R.L.G.	4/27/94
BOHANNAN-HUSTON, INC. ENGINEERS ARCHITECTS PHOTOGRAMMETRISTS SURVEYORS Courtyard I, 7500 Jefferson NE, Albuquerque, NM 87109			
NEW MEXICO FCT			
INTEL New Mexico 4100 Santa Fe Blvd. N.E. P.O. Box 100, Santa Fe, N.M. 87512-0100 505.843.7000 Fax 505.843.7004			
APPROVALS	DATE		
[Signature]	5/1/94		
PROJECT: WL-ROD17		SHEET: 7	
DRAWN BY: 1		AS NOTED	