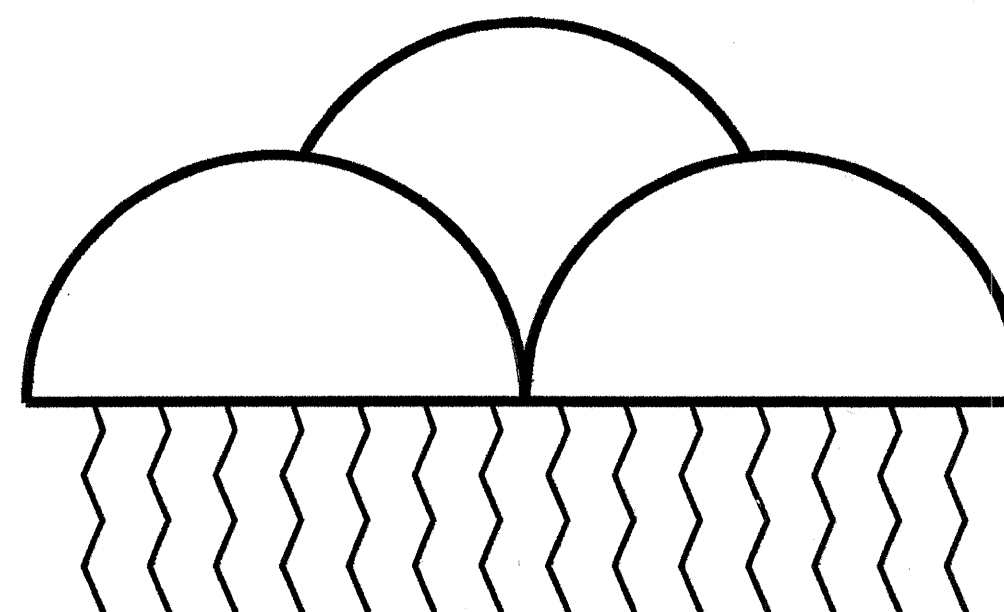
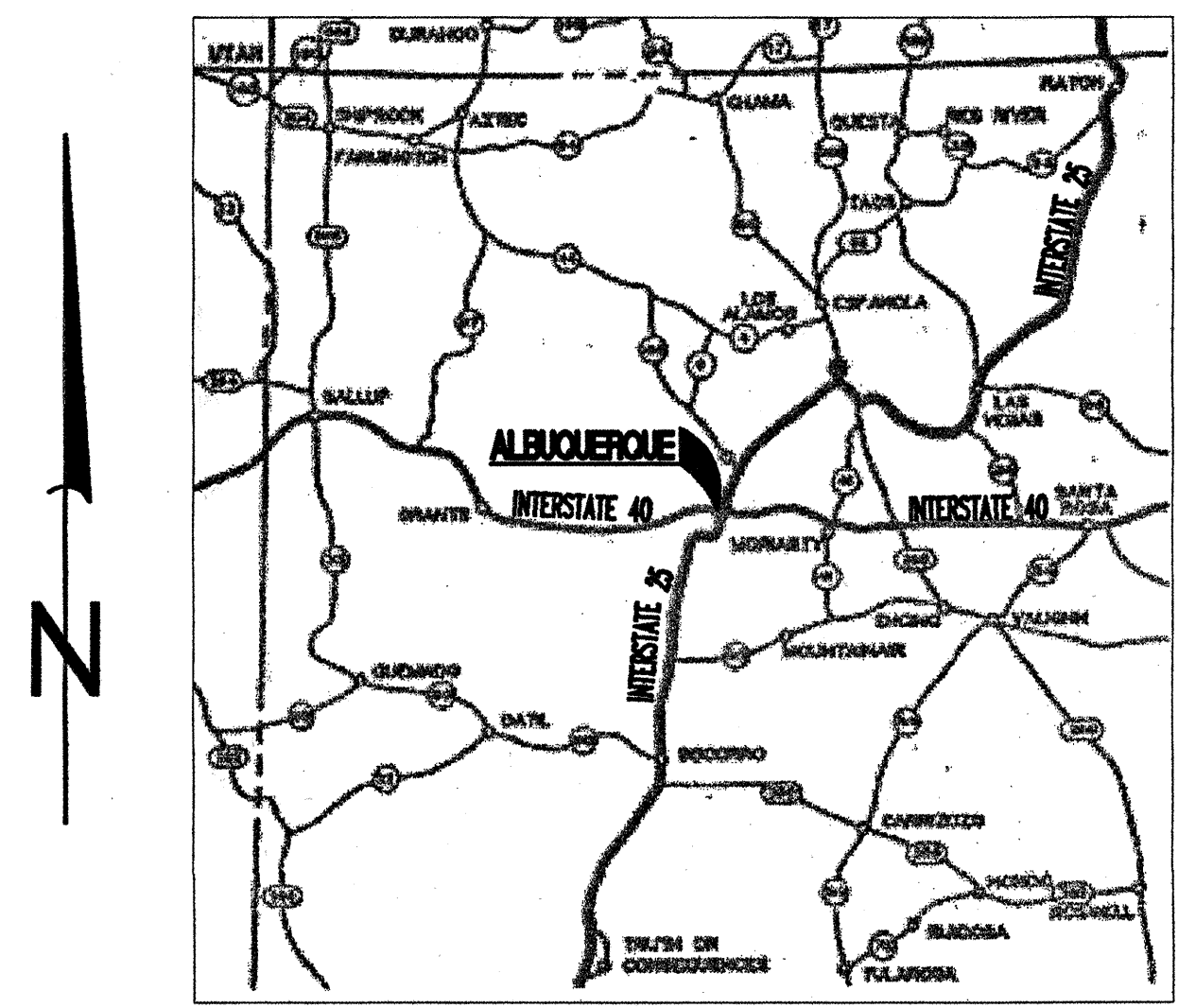




A lbuquerque
M etropolitan
A rroyo
F lood
C ontrol
A uthority



VICINITY MAP

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

NORTH VALLEY DRAINAGE IMPROVEMENTS - AREAS 1 & 2 AND OLD EL CAMINO / NORTH EDITH RETENTION POND

DRAWING LIST

SHEET NO.	DESCRIPTION
1	TITLE SHEET, INDEX & VICINITY MAP
2	LOCATION MAP AND GENERAL NOTES
3	ORTEGA RD. - AREA 2 STA 1+84.83 TO STA 7+50.00
4	ORTEGA RD. - AREA 2 STA 7+50.00 TO STA 15+06.19
5	PUEBLO LUNA DR. AREA 1 STA 40+00.00 TO STA 47+50.00
6	PUEBLO LUNA DR. AREA 1 STA 47+50.00 TO STA 52+46.80
7	PUEBLO SOLANO DR. AREA 1 STA 20+00.00 TO STA 28+00.00
8	PUEBLO SOLANO DR. AREA 1 STA 28+00.00 TO STA 38+00.00
9	OLD EL CAMINO/NORTH EDITH RETENTION POND GRADING PLAN
10	MISCELLANEOUS DETAILS
11	MISCELLANEOUS DETAILS
12	WATER SHUT-OFF PLANS

APPROVED FOR CONSTRUCTION:

John P. Kelly JAN. 6, 2000
DATE

JOHN P. KELLY P.E.
EXECUTIVE ENGINEER, AMAFCA

Paul 1/6/00
DATE

COUNTY OF BERNALILLO

[Signature] 1/7/00
DATE

NEW MEXICO STATE HIGHWAY & TRANSPORTATION DEPARTMENT

APPROVED FOR CONSTRUCTION:

[Signature] 1/11/00
DATE

MIDDLE RIO GRANDE CONSERVANCY DISTRICT

RECORD SET

David J. Lanow
9-8-00

HN
Holmes & Narver
6501 AMERICAS PARKWAY, NE
SUITE 700 (505)889-4100
ALBUQUERQUE, NM 87110

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE	
		DRC Chairman		K. [Signature]		1/6/2000	
		Transportation		N/A COUNTY			
		Water/Wastewater		B. [Signature]		1/6/2000	
		Hydrology		N/A COUNTY			
		Parks					
Constr. Mngmt.							
Constr. Coord.		N/A COUNTY					
City Project No.				Sheet Of			
630391				1 12			

Paul 1-6-00
City Engineer Date

GENERAL NOTES

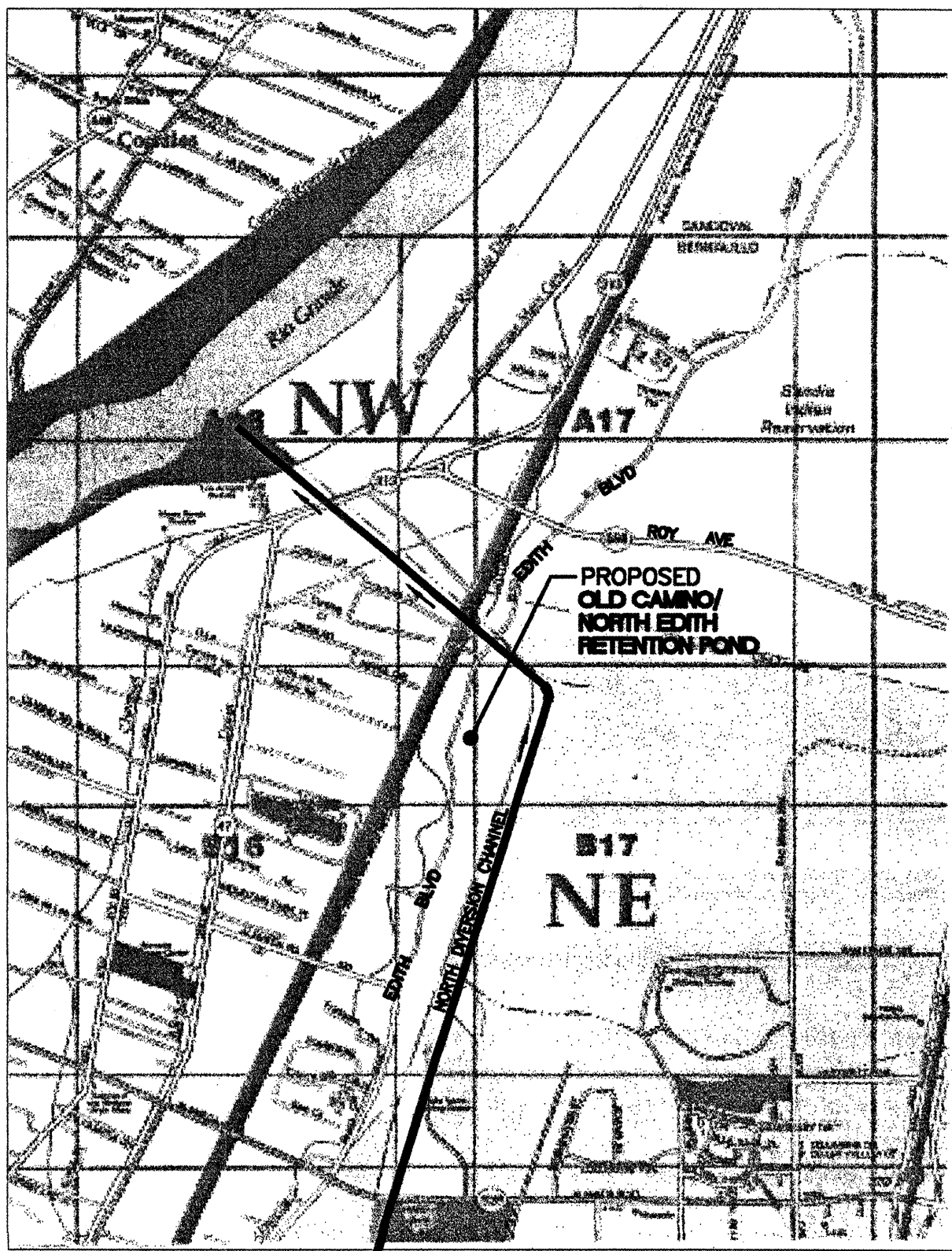
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION EDITION 1994".
- ALL WATER LINE AND SEWER LINE WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #6.
- REFERENCES MADE TO STANDARD DRAWINGS REFER TO NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT DRAWINGS OR CITY OF ALBUQUERQUE AS DESIGNATED.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT N.M. ONE CALL LOCATING SERVICE, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUPPORT ALL UTILITIES EXPOSED DURING CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGE TO ALL UTILITIES, INCLUDING SERVICE LINES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR WILL NOTIFY THE PROJECT MANAGER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- TACK COAT REQUIREMENTS SHALL BE DETERMINED BY ENGINEER.
- CONTRACTOR SHALL PROVIDE 12" SUBGRADE PREPARATION UNDER ALL NEW PAVEMENT.
- WHEN ABUTTING NEW PAVEMENT TO EXISTING, CUT BACK EXISTING PAVEMENT TO A NEAT STRAIGHT LINE AS REQUIRED TO REMOVE ANY BROKEN OR CRACKED PAVEMENT, AND MATCH NEW TO EXISTING. NO SEPARATE PAYMENT SHALL BE MADE FOR SUCH CUTTING OF EXISTING PAVEMENT CUT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. CUTTING OF PAVEMENT SHALL BE IN CONFORMANCE WITH THE SPECIFICATIONS.
- WHEN ROAD PAVEMENT CONSTRUCTION UNDER THIS PROJECT CONNECTS TO EXISTING IMPROVEMENTS, THE CONTRACTOR SHALL PROVIDE AN EASY RIDING CONNECTION.
- ALL WATER VALVE BOXES AND SEWER MANHOLES IN THE CONSTRUCTION AREA ARE TO BE ADJUSTED TO FINISH GRADE UNDER THE CONTRACT.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL OBJECTIONABLE MATERIAL FROM THE CONSTRUCTION SITE. A DISPOSAL SITE FOR ALL REMOVAL ITEMS SHALL BE OBTAINED BY THE CONTRACTOR. THE SITE SHALL BE IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY AMAFCA AND THE COUNTY OF BERNALILLO PUBLIC WORKS DEPARTMENT. ALL COSTS INCURRED THERETO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OF THE PROJECT.
- ALL PERMANENT PAVEMENT MARKING AND TRAFFIC SIGNING WILL BE PERFORMED BY THE COUNTY OF BERNALILLO PUBLIC WORKS DEPARTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH COUNTY.
- CONTRACTOR SHALL RECORD DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING. FINAL SURFACE COURSE SHALL BE INSTALLED AFTER FULL APPROVAL AND ACCEPTANCE OF THE UTILITY LINES.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DEFECTIVE OR DETERIORATED CONDITION UPON VISUAL INSPECTION OF EXISTING SERVICE LINES. THE ENGINEER OR THE CONTRACTOR AS DIRECTED BY THE ENGINEER SHALL NOTIFY PROPERTY OWNERS OF SUCH SITUATION AND SHALL PROVIDE THE PROPERTY OWNERS WITH THE OPPORTUNITY TO VISUALLY OBSERVE AND REPLACE THE SERVICE LINE WITHIN A REASONABLE AMOUNT OF TIME.
- WATER SHUT-OFF PLANS ARE FOR CITY USE ONLY. CONTRACTOR SHALL COORDINATE WITH THE CITY OF ALBUQUERQUE WATER SYSTEMS DIVISION (857-8200) FIVE (5) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING PUBLIC WATER OR SEWER UTILITIES, EXISTING VALVES TO BE OPERATED BY CITY PERSONNEL ONLY. CONTRACTOR SHALL CONTACT THE WATER SYSTEMS DIVISION THREE (3) WORKING DAYS PRIOR TO NEEDING VALVES TURNED ON OR OFF.
- EXISTING WATERLINES THAT ARE REPLACED SHALL BE REMOVED, EXCEPT AS OTHERWISE INDICATED ON THE PLANS.
- ALL WATERLINE REPLACEMENT CONNECTIONS SHALL BE PER CITY OF ALBUQUERQUE STANDARD DRAWING 2301.
- ALL CONCRETE BLOCKING FOR WAERLINES SHALL BE PER CITY OF ALBUQUERQUE STANDARD DRAWING 2320. ALL NEW WATERLINE FITTINGS SHALL REQUIRE RESTRAINED JOINTS. RESTRAINED JOINTS SHALL CONFORM TO THE TABLE SHOWN ON THE DRAWINGS.
- CONTRACTOR SHALL COORDINATE WITH THE GAS COMPANY OF NEW MEXICO (761-7775) TWO WEEKS PRIOR TO NEEDING A GAS LINE SEGMENT RELOCATED.

CONSTRUCTION SIGNING:

- ALL BARRICADES AND SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION, MOST RECENT EDITION.
 - CONTRACTOR SHALL PREPARE A CONSTRUCTION SIGNING PLAN AND OBTAIN APPROVAL OF SUCH A PLAN FROM THE COUNTY OF BERNALILLO, PUBLIC WORKS DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
 - ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A MOUNTED HEIGHT OF SEVEN (7) FEET.
 - CONTRACTOR SHALL MAINTAIN ALL BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADES AT THE END AND BEGINNING OF EACH DAY.
- ALL DISTURBED AREAS ADJACENT TO THE RETENTION PUN SHALL BE RESEEDD WITH NATIVE VEGETATION ACCORDING TO AMAFCA STANDARDS.
- PROJECT SIGNAGE TO IDENTIFY AMAFCA AS THE SOURCE OF FUNDING FOR THE PROJECT. - SEE CONTRACT DOCUMENTS.
- WATER OR SANITARY SERVICES LINES THAT REQUIRE RELOCATION SHALL BE RELOCATED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS.
- ALL EXCAVATION, TRENCHING, AND SHURING ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

TRAFFIC CONTROL GENERAL NOTES:

- PROJECT IS SUBJECT TO THE REQUIREMENTS OF COUNTY ORDINANCE NO. 95-12 AND ORDINANCE NO. 96-3. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL PERMITS NECESSARY. CONTRACTOR SHALL CALL 848-1500 FOR MORE INFORMATION.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE COUNTY TRAFFIC CONTROL MANAGER AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK. TRAFFIC CONTROL PLANS SHALL BE PREPARED IN ACCORDANCE WITH MUTCD REQUIREMENTS AND BY CERTIFIED PERSONNEL AND MUST BE APPROVED PRIOR TO COMMENCEMENT OF WORK ON THE PROJECT. CALL 848-1504 FOR FURTHER INFORMATION.
- A DAILY TRAFFIC CONTROL LOG SHALL BE MAINTAINED BY THE CONTRACTOR REFLECTING THE TYPES AND LOCATIONS OF ALL TRAFFIC CONTROL DEVICES, SIGNS, BARRICADES, ETC. BEING USED ON THE PROJECT IN COMPLIANCE WITH THE APPROVED TRAFFIC CONTROL PLAN. THIS LOG SHALL BE SUBMITTED TO THE BERNALILLO COUNTY TRAFFIC CONTROL MANAGER UPON COMPLETION OF THE PROJECT CONSTRUCTION OR WHEN SO REQUESTED BY THE PROJECT MANAGER OR THE BERNALILLO COUNTY TRAFFIC CONTROL MANAGER.
- CONTRACTOR SHALL PROVIDE A WEEKLY CONSTRUCTION ACTIVITY SCHEDULE TO BERNALILLO COUNTY PUBLIC WORKS DEPARTMENT, ATTN: HOSS FOSTER.
- THE CONTRACTOR SHALL FILE WEEKLY WRITTEN REPORT TO THE TRAFFIC CONTROL MANAGER DESCRIBING THE TRAFFIC CONTROL PLAN THAT WILL BE IN EFFECT THE FOLLOWING WEEK.
- CONTRACTOR SHALL PROVIDE PROPER SIGNAGE AND PERSONNEL TO ASSURE PROPER SAFETY TO THE TRAVELING PUBLIC ON ALL AFFECTED ROADS. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL PRIVATE AND PUBLIC PROPERTY AT ALL TIMES, EXCEPT WHEN GRADING, EXCAVATION, AND BACKFILL OPERATIONS, ARE BEING CONDUCTED IMMEDIATELY IN FRONT OF THE PROPERTY, IN WHICH CASE ACCESS WILL NOT BE DENIED FOR MORE THAN 4 HOURS WITHOUT APPROVAL BY THE COUNTY.
- TRAFFIC LANES PROVIDED DURING CONSTRUCTION SHALL BE MAINTAINED IN SUCH A CONDITION UNDER ALL WEATHER CONDITIONS SO AS TO PERMIT THE REASONABLE PASSAGE OF PASSENGER VEHICLES, AND SHALL BE KEPT GRADED AND SMOOTH, AND WATERED SEVERAL TIMES DAILY TO CONTROL DUST.



LOCATION MAP 2

BERNALILLO COUNTY
MAP NO. B-17



LOCATION MAP 1

BERNALILLO COUNTY
MAP NO. C-16, & D-15

LEGEND

EXISTING	PROPOSED	
—5040—	—5025—	CONTOUR—MAJOR
—	—	CONTOUR—MINOR
—10"—AC—W—	—30"—SD—	STORM DRAIN
—8"—PVC—SAS—		WATER LINE
—2"—HP—GAS—		SANITARY SEWER LINE
—ROW—		GAS LINE
		RIGHT—OF—WAY LINE
		18" RCP
	□	MEDIAN DROP INLET
	—	CONCRETE TRAINING WALL
	⊗	RIP—RAP
	—	CONCRETE RUNDOWN
	—	PAVEMENT LINE
	⊞	DOUBLE 'D' INLET
	⊞	'C' INLET
	●	MANHOLE
	⊙	MANHOLE WITH GRATED LID

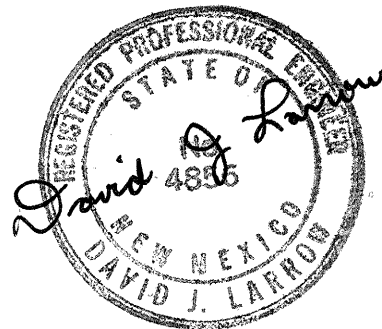
LENGTH OF RESTRAINED PIPE (FEET)						
PIPE SIZE	90° ⁽¹⁾	45° ⁽²⁾	22-1/2° ⁽¹⁾	11-1/2° ⁽¹⁾	TEE ⁽¹⁾	VALVE ⁽¹⁾
4"	21'	9'	5'	3'	21'	52'
6"	26'	11'	6'	3'	37'	74'
8"	31'	13'	7'	4'	54'	97'
10"	34'	15'	7'	4'	69'	107'
12"	54'	23'	11'	6'	85'	120'
(1) TEE BRANCH—EACH RUN PIPE SHALL BE MINIMUM 10' W/O JOINTS.						
(2) DISTANCE SHOWN IS EACH DIRECTION FOR VALVES AND BENDS.						
(3) ALL DEAD END CAPS SHALL BE CONCRETE BLOCKED.						

FOR INFORMATION ONLY

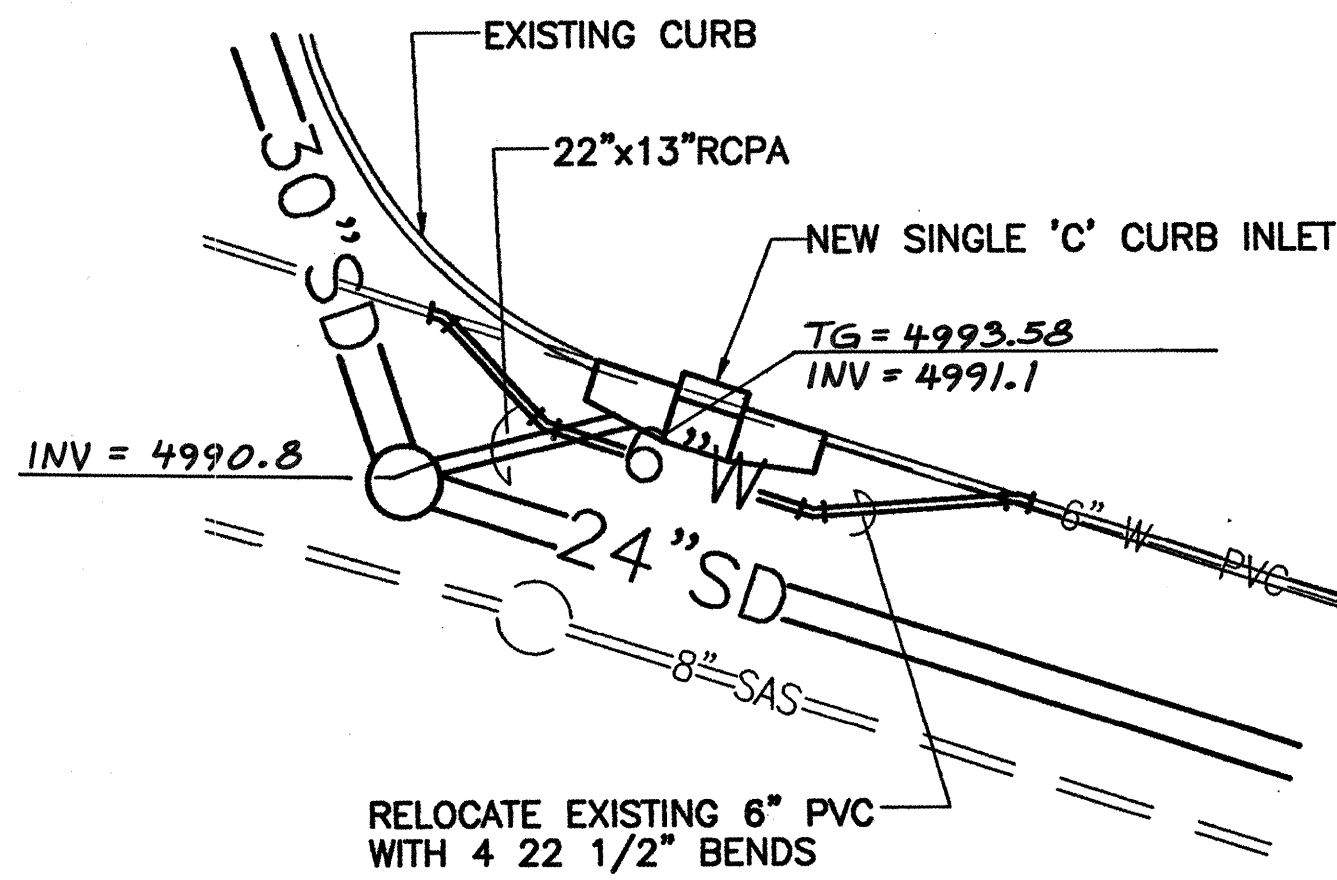
RECORD SET

David J. Larrow

9-8-00



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP				ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY			
TITLE: (SEE AT RIGHT)				NORTH VALLEY DRAINAGE IMPROVEMENTS - AREAS 1 & 2 OLD EL CAMINO/NORTH EDITH RETENTION POND			
Design Review Committee JAN 6 2001		City Engineer Approval JAN - 6 2000		Mo./Day/Yr.		Mo./Day/Yr.	
City Project No. 630391		Zone Map No. C-16, D-15		Sheet Of (SEE AT RIGHT)		FILE No. DRAWN 5333MP01 J.L.M.	
Checked D.J.L.		DATE JAN. 2000		Sheet 2 Of 12		HOLMES & NARVER 6501 AMERICAS PARKWAY, N.E. SUITE 700 ALBUQUERQUE, NEW MEXICO 87110	

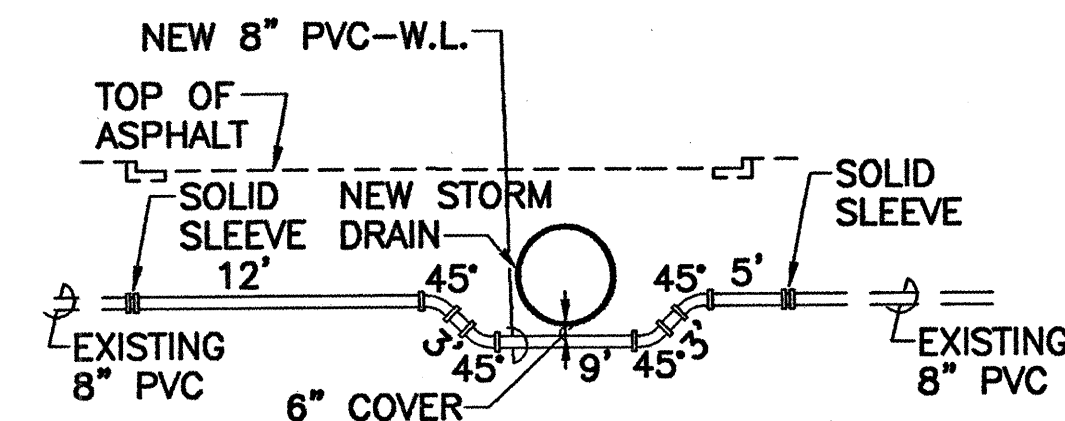


DETAIL PLAN
SCALE: 1" = 10'

STA 1+84.83
REMOVE EXISTING SLOTTED BUILT MH
DRAIN. CONNECT 30" SD OVER EXIST. 24" SD
INTO EXISTING INLET

STA 3+38.13
BUILD SINGLE 'C' INLET
4.00' LT
GRATE = 4993.75 .71
INV. = 4990.58 .1
W/22"x13"x15.80" RCPC
6.0' COV TO EDGE D.I.

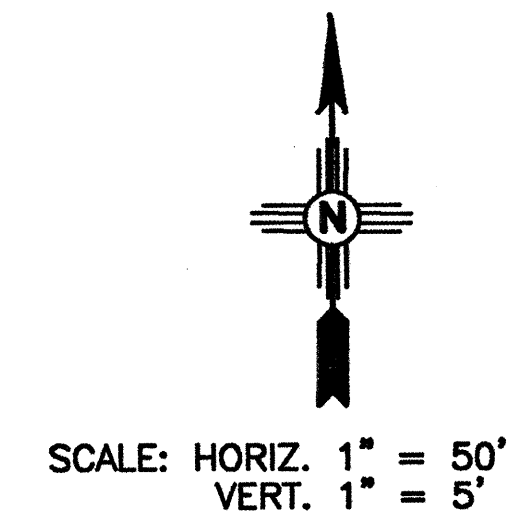
STA 5+74.82
BUILD SINGLE 'C' INLET
7.00' LT
GRATE = 4993.60
INV. = 4990.43 91.1
W/22"x13"x16.48" RCPC
14.0' COV TO EDGE D.I.



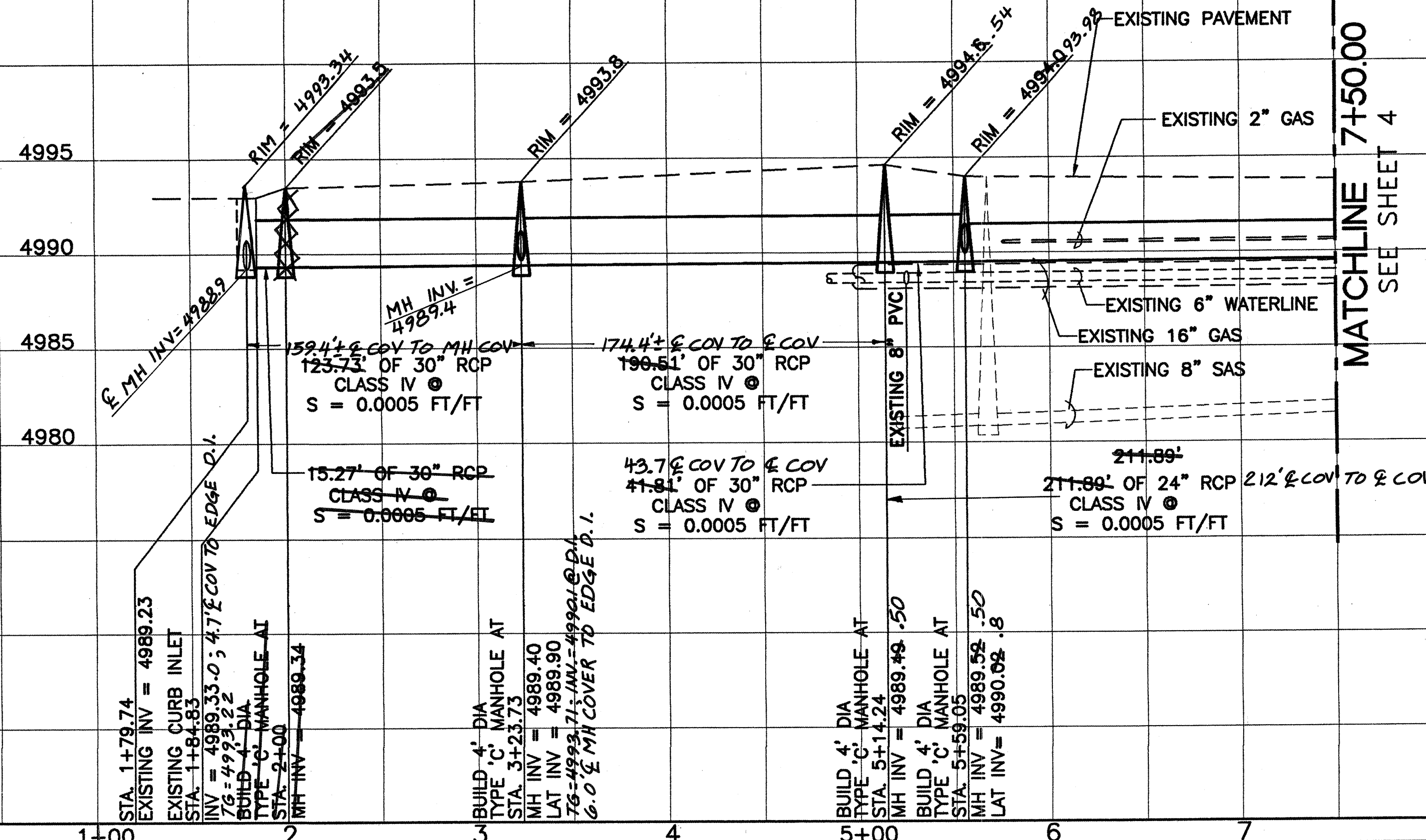
DETAIL

KEYED NOTES:

- 1 RELOCATE EXISTING 6" PVC WATER LINE AROUND NEW CURB INLET.
- 2 LOWER EXISTING 8" P.V.C. BELOW NEW 30" R.C.P.

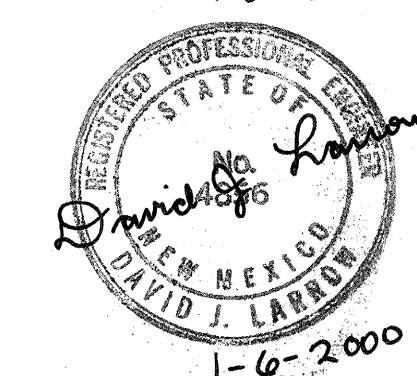


SCANNED BY
MESA REPRO



RECORD SET

FOR INFORMATION ONLY
9-8-00



BENCH MARK

STANDARD NMSHC BRASS TABLET
STAMPED "NM47-2"
ELEVATION = 4994.908
LOCATED 625' NORTH & 30' EAST
OF THE INTERSECTION OF ORTEGA
RD AND SECOND STREET.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: (SEE BELOW)

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
JAN 6 2000	JAN 6 2000		

City Project No. 630391 Zone Map No. C-16, D-15 Sheet 3 Of 12 (SEE BELOW)

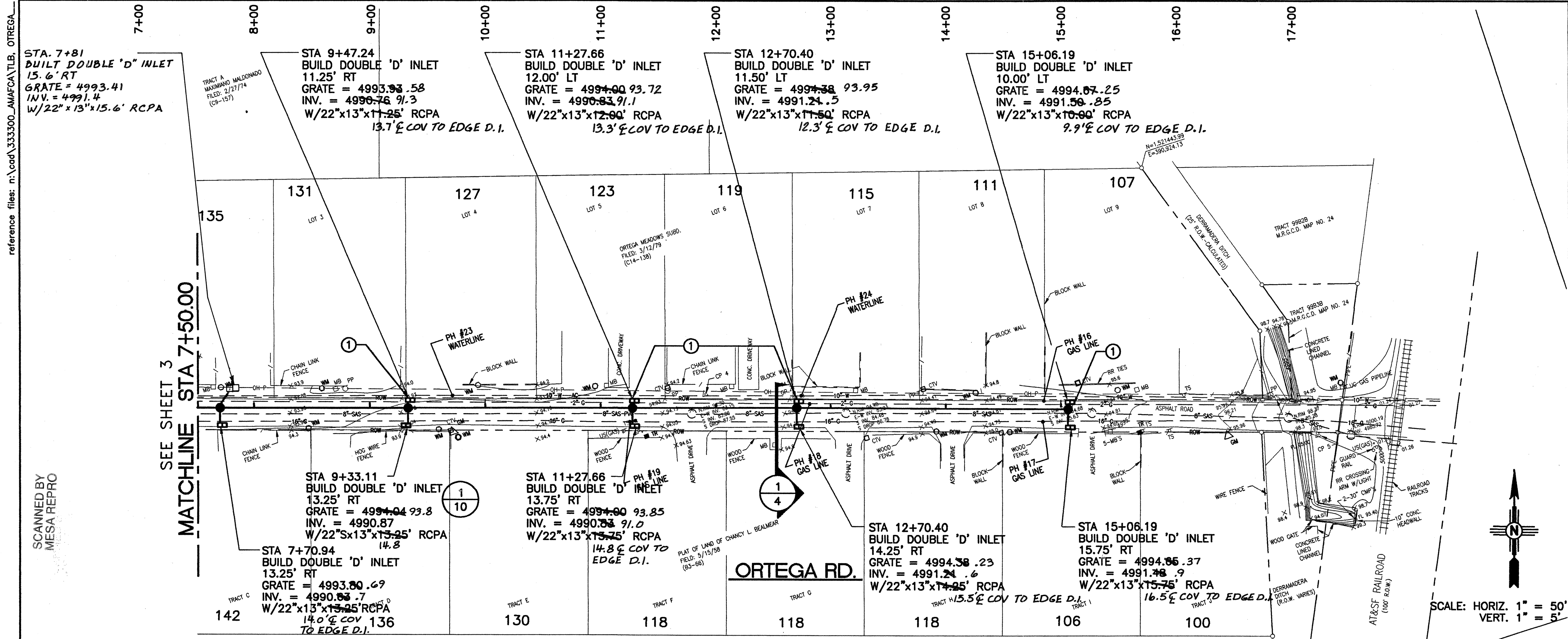
ALBUQUERQUE METROPOLITAN ARROYO
FLOOD CONTROL AUTHORITY

NORTH VALLEY DRAINAGE IMPROVEMENTS - AREAS 1 & 2
OLD EL CAMINO/NORTH EDITH RETENTION POND
ORTEGA RD - AREA 2
STA 1+84.83 TO STA 7+50.00



HOLMES & NARVER
6501 AMERICAS PARKWAY, N.E. SUITE 700
ALBUQUERQUE, NEW MEXICO 87110

FILE No.	DRAWN	CHECKED	DATE	Sheet	Of
			JAN. 2000	3	12



KEYED NOTES: ○

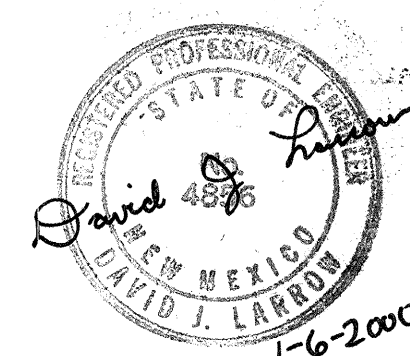
- EXISTING 2" GAS LINE TO BE LOWERED BY OTHERS.

FOR INFORMATION ONLY

RECORD SET

David J. Lerner

9-8-00



BENCH MARK

STANDARD NMSHC BRASS TABLET
STAMPED "NM47-2"
ELEVATION = 4994.908
LOCATED 625' NORTH & 30' EAST
OF THE INTERSECTION OF ORTEGA
RD AND SECOND STREET.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: (SEE BELOW)

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
JAN 6 2000	JAN 6 2000		
DESIGN REVIEW COMMITTEE	CITY ENGINEER	Last Design Update	

City Project No. 630391 Zone Map No. C-16, D-15 Sheet Of (SEE BELOW)

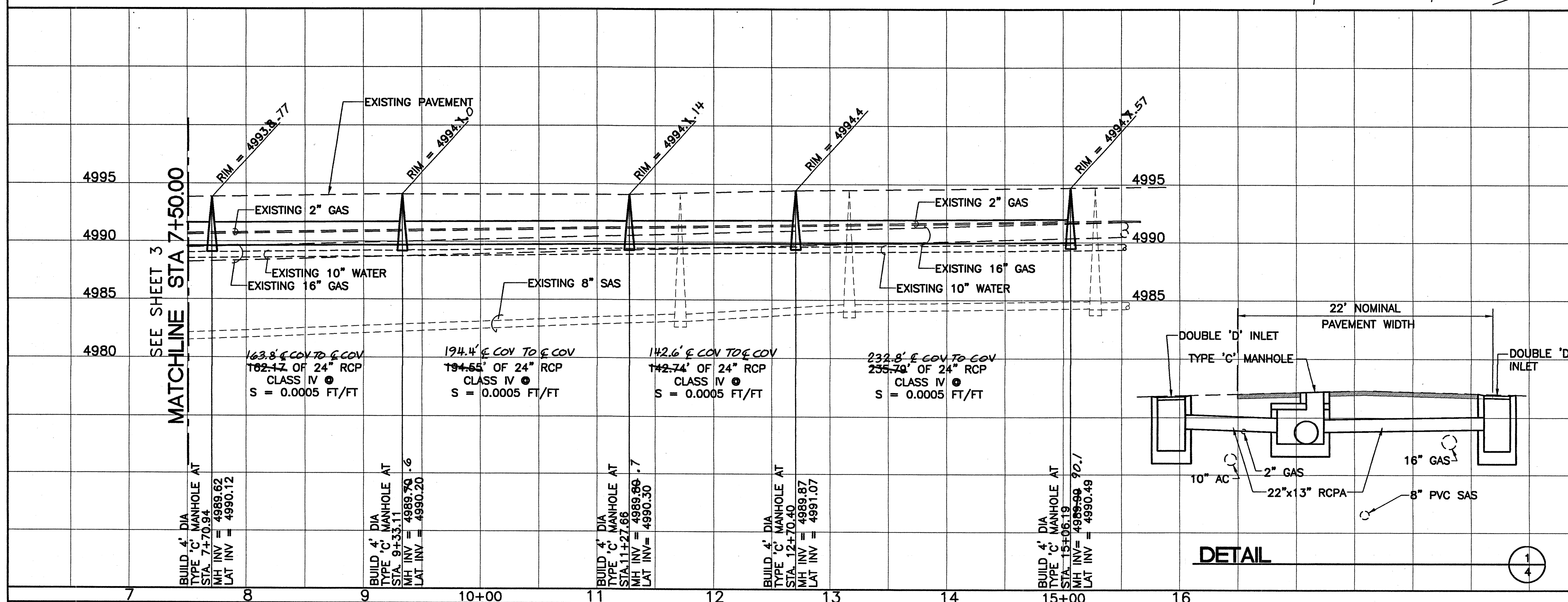
ALBUQUERQUE METROPOLITAN ARROYO
FLOOD CONTROL AUTHORITY

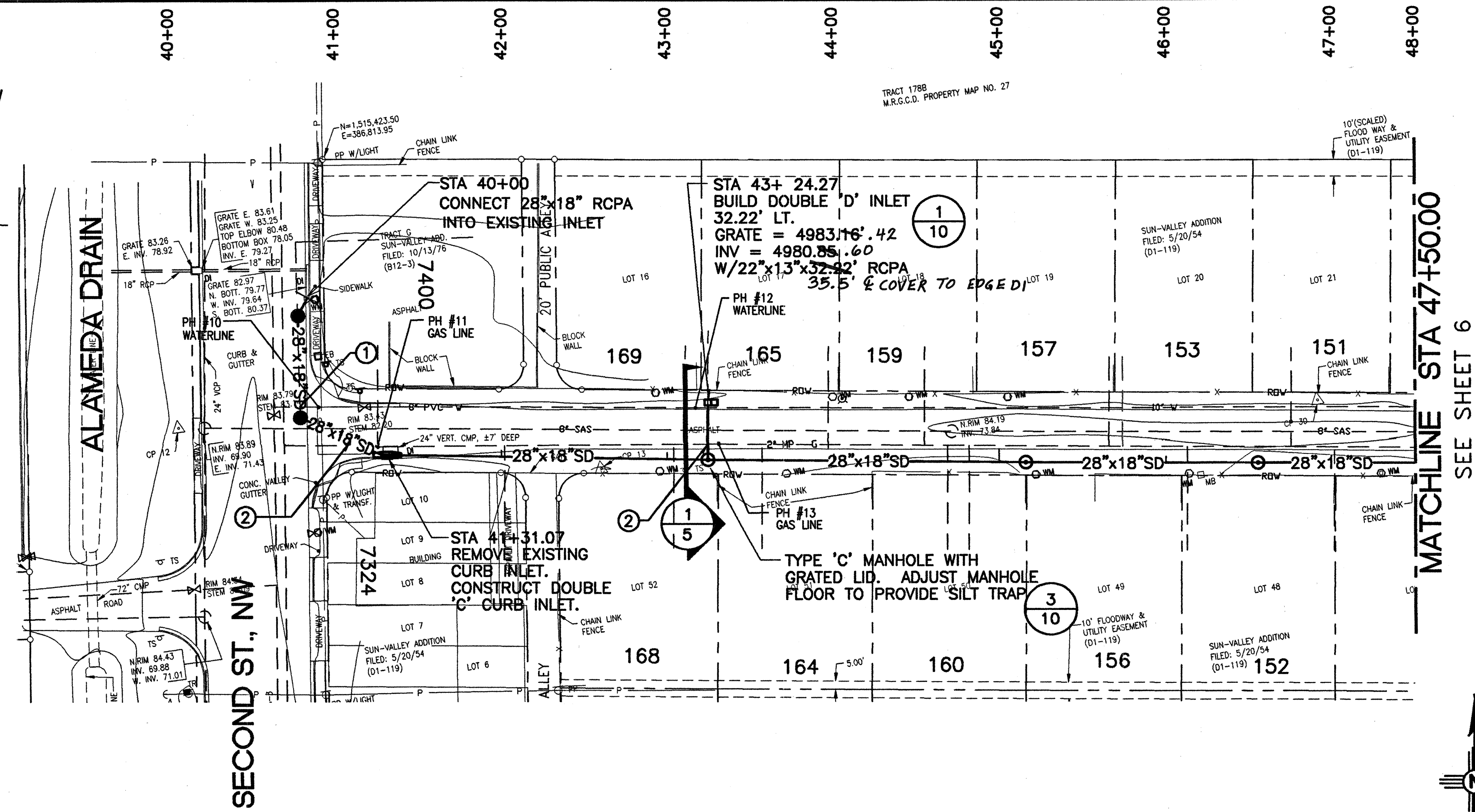
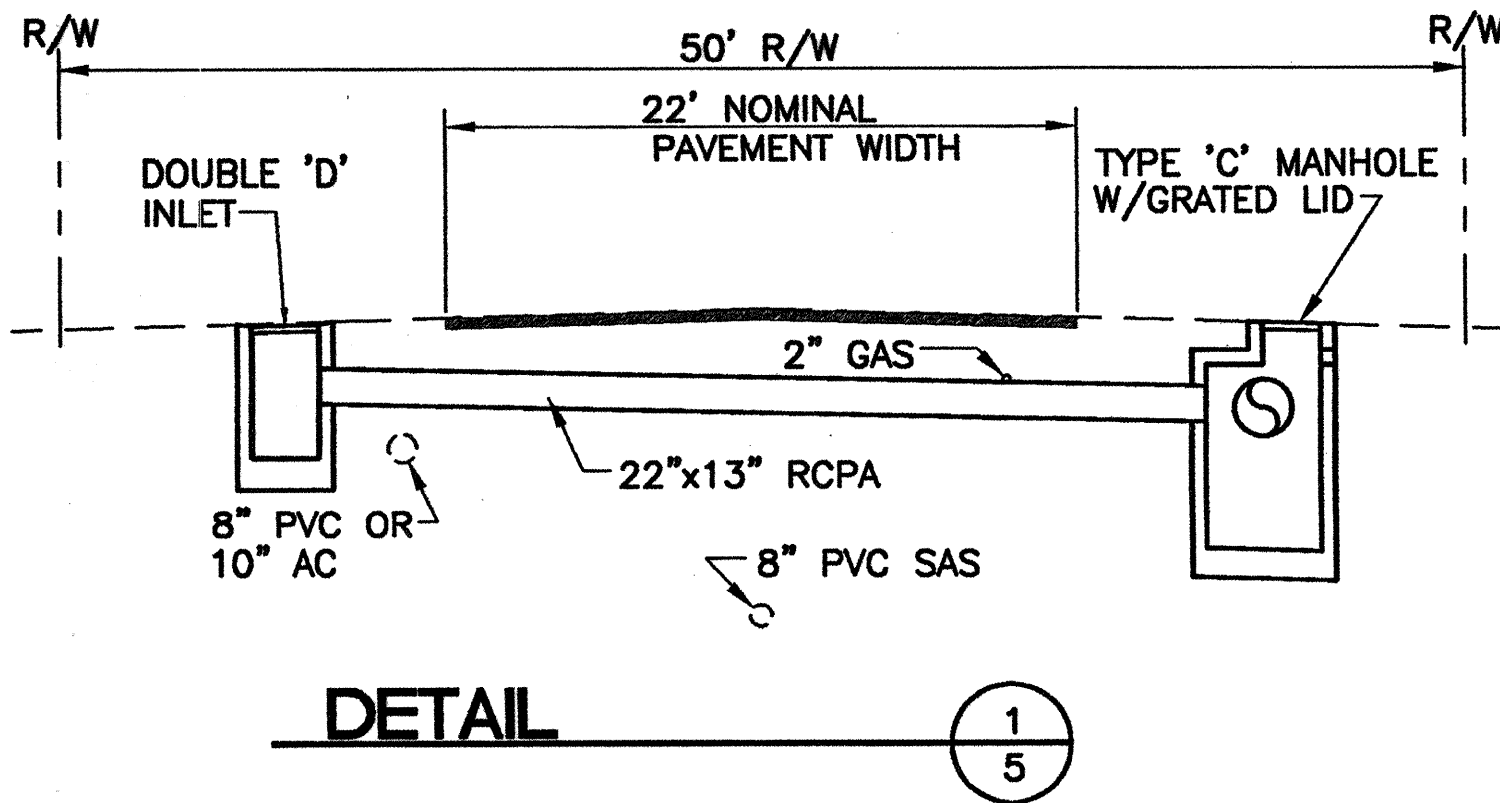
NORTH VALLEY DRAINAGE IMPROVEMENTS - AREAS 1 & 2
OLD EL CAMINO/NORTH EDITH RETENTION POND
ORTEGA RD - AREA 2
STA 7+50.00 TO STA 15+06.19



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			JAN. 2000	4	12



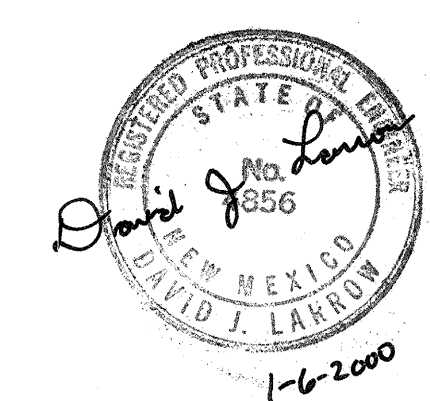


KEYED NOTES: ○

1. LOWER EXISTING 8" PVC WATER LINE BELOW NEW 28"x18" RCPA. SEE 1/3
2. EXISTING 2" GAS LINE TO BE LOWERED BY OTHERS.

RECORD SET

David J. Larson
9-8-00



BENCH MARK
ACS 1 3/4" ALUMINUM DISK
STAMPED "BM 20-E15"
ELEVATION = 4981.034
LOCATED IN THE SSE QUADRANT
OF SECOND STREET & GREEN
VALLEY ROAD, NW.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: (SEE BELOW)

Design/Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
JAN 6 2000	JAN 6 2000		
City Project No. 630391	Zone Map No. C-16, D-15	Sheet 5	Of 12

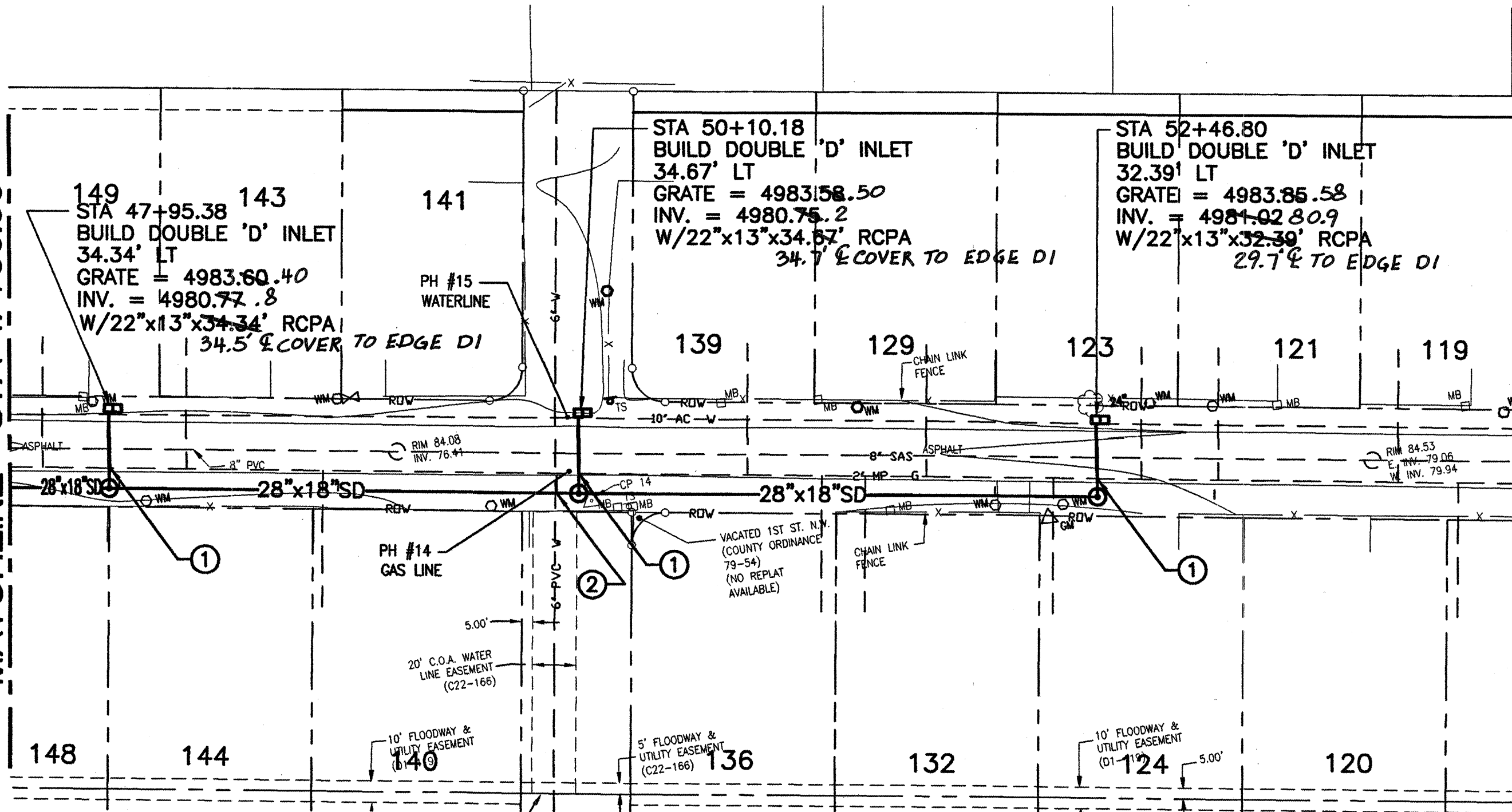
ALBUQUERQUE METROPOLITAN ARROYO
FLOOD CONTROL AUTHORITY
NORTH VALLEY DRAINAGE IMPROVEMENTS - AREAS 1 & 2
OLD EL CAMINO/NORTH EDITH RETENTION POND
PUEBLO LUNA DR
STA. 40+00.00 TO STA. 47+50.00

Holmes & Narver
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ALBUQUERQUE, NEW MEXICO 87110

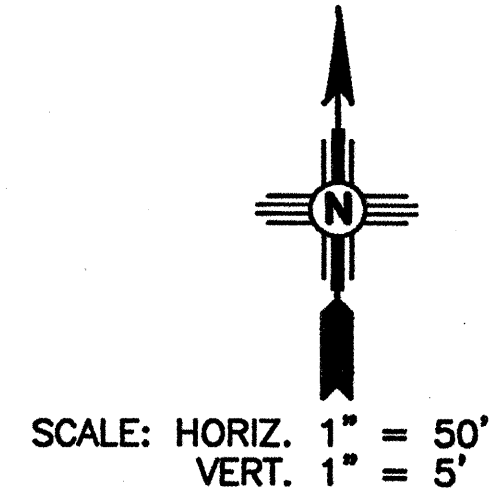
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			JAN. 2000	5	12

SCANNED BY
MESA REPRO

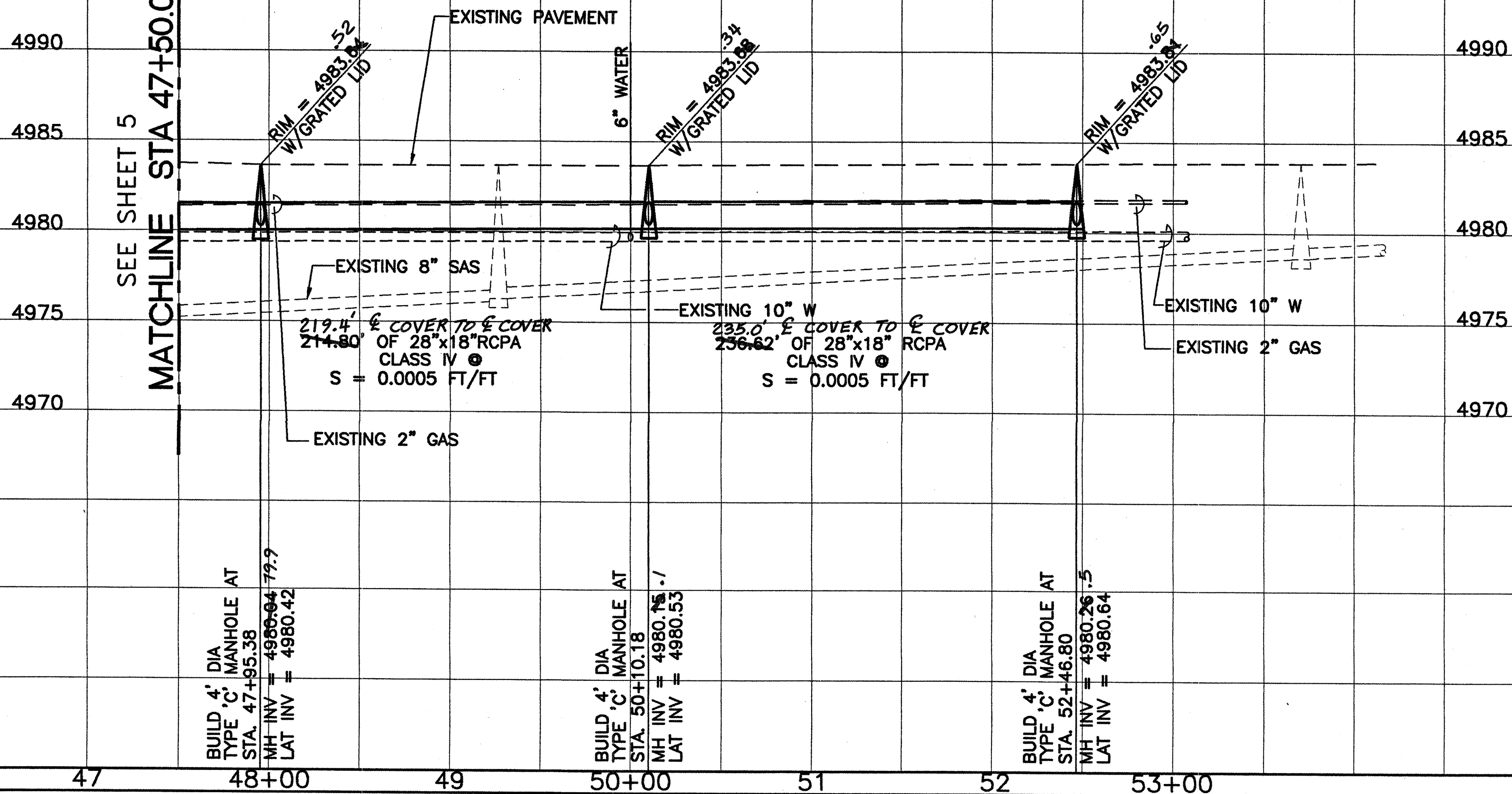
SEE SHEET 5
MATCHLINE STA 47+50.00



PUEBLO LUNA DR.



SEE SHEET 5
MATCHLINE STA 47+50.00



KEYED NOTES: ○

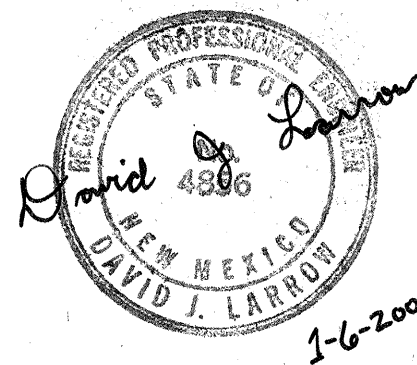
- EXISTING 2" GAS LINE TO BE LOWERED BY OTHERS.
- LOWER EXISTING 6" WATERLINE BELOW NEW 28"x18"RCPA. SEE ○

1
3

FOR INFORMATION ONLY

RECORD SET

David J. Larron
9-8-00



BENCH MARK
ACS 1 3/4" ALUMINUM DISK
STAMPED "BM 20-E15"
ELEVATION = 4981.034
LOCATED IN THE SSE QUADRANT
OF SECOND STREET & GREEN
VALLEY ROAD, NW.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:
(SEE BELOW)

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
JAN 6 2000	JAN - 6 2000		
DESIGN	CITY ENGINEER		

City Project No. **630391** Zone Map No. C-16, D-15 Sheet **6** Of **12** (SEE BELOW)

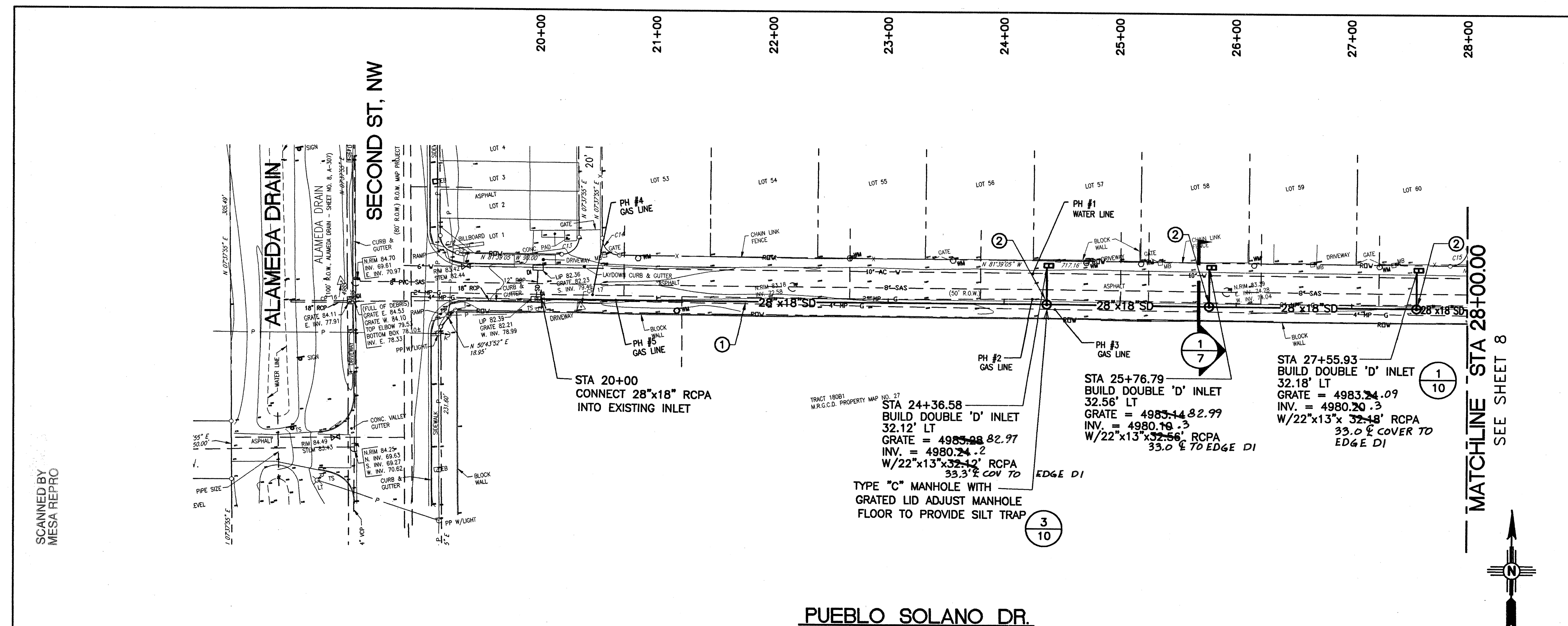
ALBUQUERQUE METROPOLITAN ARROYO
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NORTH VALLEY DRAINAGE IMPROVEMENTS - AREAS 1 & 2
OLD EL CAMINO/NORTH EDITH RETENTION POND
PUEBLO LUNA DR
STA. 47+50.00 TO STA. 52+46.80

Holmes & Narver
6501 AMERICAS PARKWAY, N.E. SUITE 700
ALBUQUERQUE, NEW MEXICO 87110

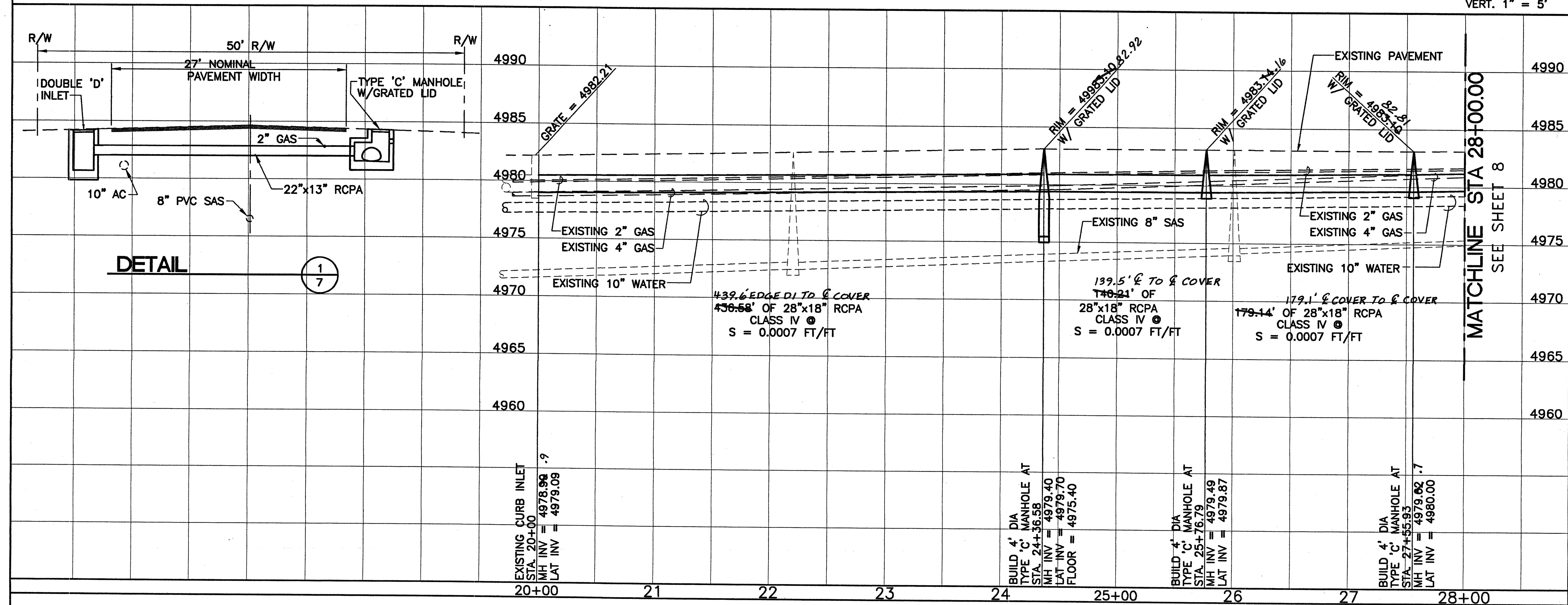
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			JAN. 2000	6	12

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KEYED NOTES:

- 1 RELOCATE APPROXIMATELY 400 L.F. OF EXISTING 4" GAS LINE, BY OTHERS.
- 2 EXISTING 2" GAS LINE TO BE LOWERED BY OTHERS.



FOR INFORMATION ONLY
FOR INFORMATION ONLY

RECORD SET

David J. Larrow
9-8-00



1-6-2000

BENCH MARK

ACS 1 3/4" ALUMINUM DISK
STAMPED "BM 20-E15"
ELEVATION = 4981.034
LOCATED IN THE SSE QUADRANT
OF SECOND STREET & GREEN
VALLEY ROAD, NW.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: (SEE BELOW)

Design Review Committee City Engineer Approval
JAN 6 2000 JAN - 6 2000

City Project No. 630391 Zone Map No. C-16, D-15 Sheet Of (SEE BELOW)

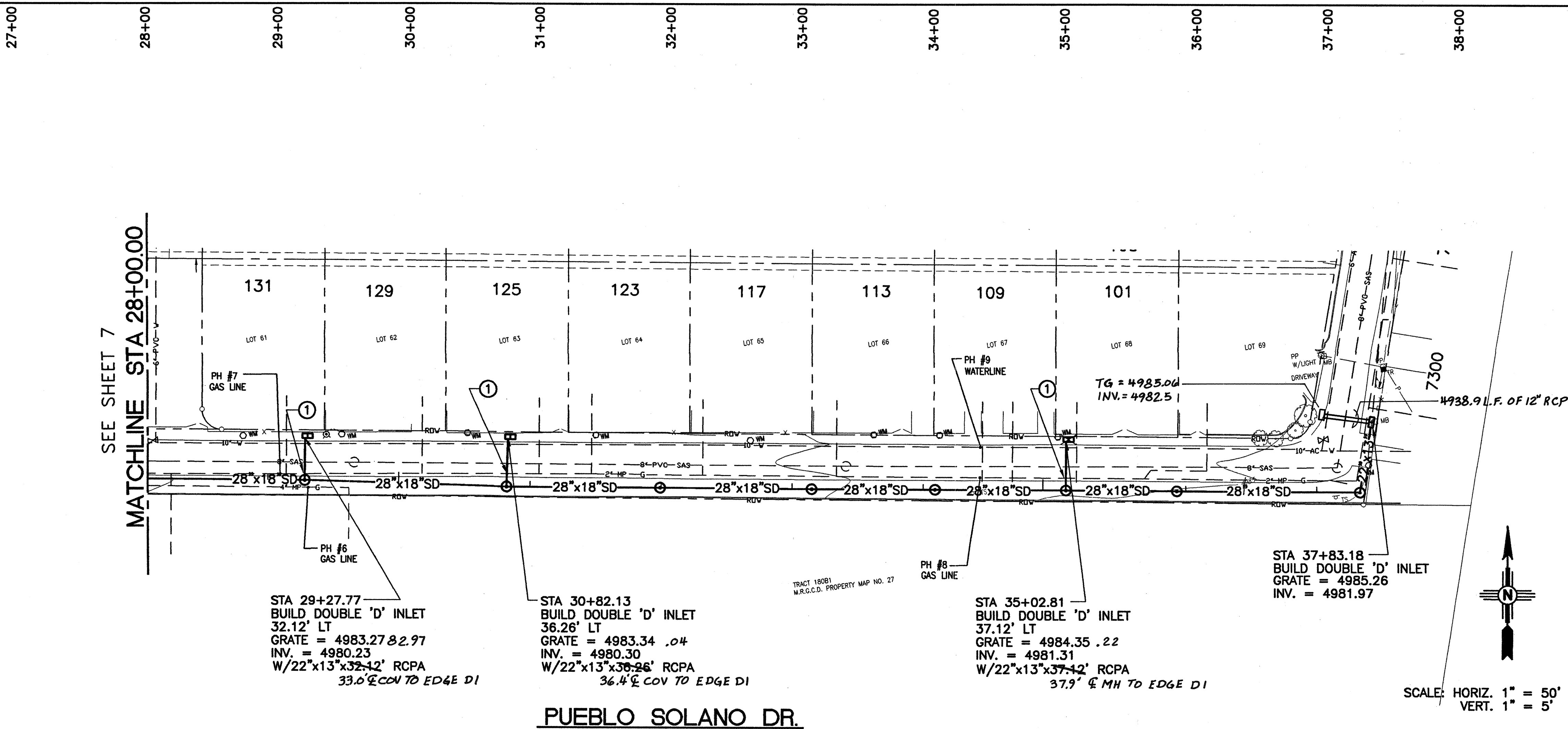
ALBUQUERQUE METROPOLITAN ARROYO
FLOOD CONTROL AUTHORITY

NORTH VALLEY DRAINAGE IMPROVEMENTS - AREAS 1 & 2
OLD EL CAMINO/NORTH EDITH RETENTION POND
PUEBLO SOLANO DR - AREA 1
STA. 20+00.00 TO STA. 28+00.00

HOLMES & NARVER
6501 AMERICAS PARKWAY, N.E. SUITE 700
ALBUQUERQUE, NEW MEXICO 87110

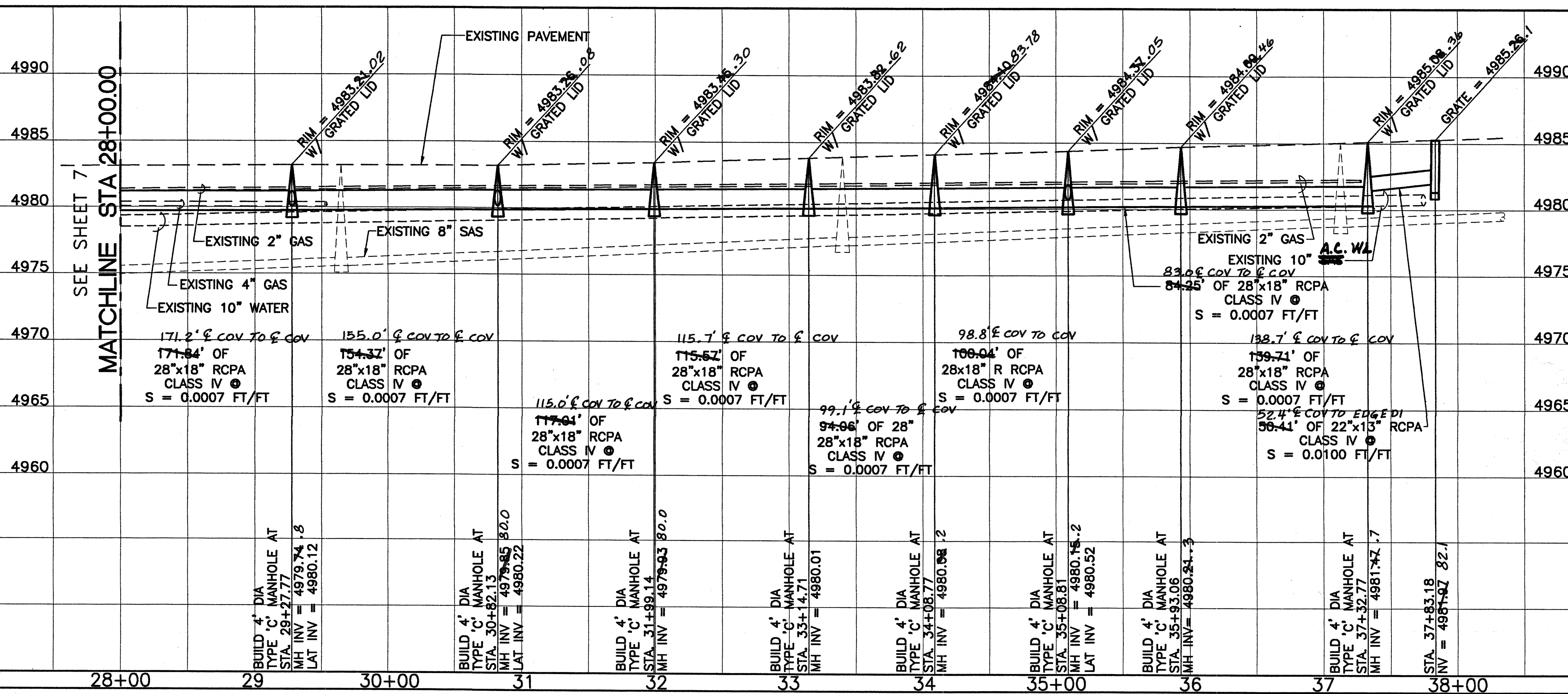
FILE No. DRAWN CHECKED DATE JAN. 2000 Sheet 7 Of 12

SCANNED BY
MESA REPRO



KEYED NOTES:

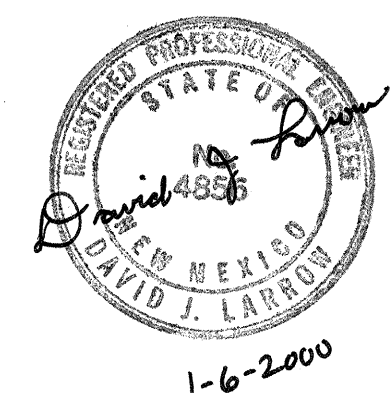
- EXISTING 2" GAS LINE TO BE LOWERED BY OTHERS.



FOR INFORMATION ONLY

RECORD SET

David G. Lannon
9-8-00



BENCH MARK

ACS 1 3/4" ALUMINUM DISK
STAMPED "BM 20-E15"
ELEVATION = 4981.034
LOCATED IN THE SSE QUADRANT
OF SECOND STREET & GREEN
VALLEY ROAD, NW.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: (SEE BELOW)

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
1-6-2000	1-6-2000		

City Project No. 630391 Zone Map No. C-16, D-15 Sheet Of (SEE BELOW)

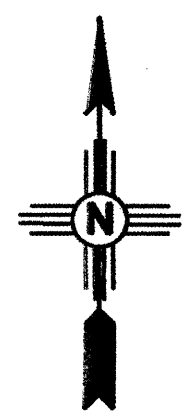
ALBUQUERQUE METROPOLITAN ARROYO
FLOOD CONTROL AUTHORITY

NORTH VALLEY DRAINAGE IMPROVEMENTS - AREAS 1 & 2
OLD EL CAMINO/NORTH EDITH RETENTION POND
PUEBLO SOLANO DR - AREA 1
STA 28+00.00 TO STA. 37+83.18



HOLMES & NARVER
6501 AMERICAS PARKWAY, N.E. SUITE 700
ALBUQUERQUE, NEW MEXICO 87110

FILE No. DRAWN CHECKED DATE JAN. 2000 Sheet 8 Of 12



SCALE: HORIZ. 1" = 50'

KEYED NOTES: ○

1. INSTALL TRAINING WALL SEE

2
11
2. INSTALL CONCRETE RUNDOWN SEE

1
11
3. INSTALL MEDIAN DROP INLET AS SHOWN. SEE

3
11
4. LOWER EXISTING 2" GAS LINE UNDER NEW 18" RCP.
5. SEED ALL DISTURBED AREAS WITH CLASS A SEEDING WITH STRAW MULCH.
6. INSTALL 4' HIGH CHAIN LINK FENCE TO THE LIMITS SHOWN. SEE CITY STANDARD DWG. 2252.
7. INSTALL 12' WIDE x 4' HIGH SQUARE TUBE GATE. SEE CITY STANDARD DWG. 2253.
8. CLEAR AND GRUB DIKE AREAS PRIOR TO PLACING FILL. COMPACT AREAS BENEATH FILL TO 6" DEEP AT 95% COMPACTION.
9. CONTRACTOR SHALL PROVIDE DISPOSAL SITE FOR EXCESS EXCAVATION.
10. INSTALL MEDIAN DROP INLET AS SHOWN SEE

5
11

Hydrologic Data

Fully developed Volume Calculations for Retention Pond per AHYMO:

- | | Land Treatment |
|------------------------------|----------------|
| 1. Assume A-1 Development: | 17% (D) |
| For Basins A-1, A-2, B & C-2 | 38% (C) |
| | 23% (B) |
| | 22% (A) |
-
- | | 100-yr. - 6 hr Excess Precip. (in) |
|-----------------|------------------------------------|
| 2. AHYMO ZONE 2 | A = .53 |
| | B = .78 |
| | C = 1.13 |
| | D = 2.12 |
-
- | | |
|-------------|---|
| 3. Vol 6 hr | = .22(.53) + .23(.78) + .38(.78) + .17(2.12) = .953 in. |
| | = .08 Ac-Ft/Acre |
-
- | | |
|---------------|---------------|
| 4. Total Area | A-1 = 2.2 Ac. |
| | A-2 = 2.4 Ac. |
| | B = 2.2 Ac. |
| | C-2 = 1.4 Ac. |
| Total | = 8.2 Ac |
-
- | | |
|-------------|-----------------------|
| 5. Vol 6 hr | 8.2(.08) = .656 Ac-Ft |
|-------------|-----------------------|
-
- | | |
|-------------|---|
| 6. Vol 24 | = .656 + 1.4(2.75-2.35)/12 = .703 Ac-Ft |
| Where A_D | = 1.4 Ac. |
-
- | | |
|---------------|---|
| 7. Vol 10-day | = .656 + 1.4(3.95-2.35)/12 = .843 Ac-Ft |
|---------------|---|
-
- | | |
|--------------|-------------------------------|
| 8. 2x Vol 24 | = 2x .703 Ac-Ft = 1.406 Ac-Ft |
|--------------|-------------------------------|

Use 1.4 Ac-Ft as min. volume of pond.

RECORD SET

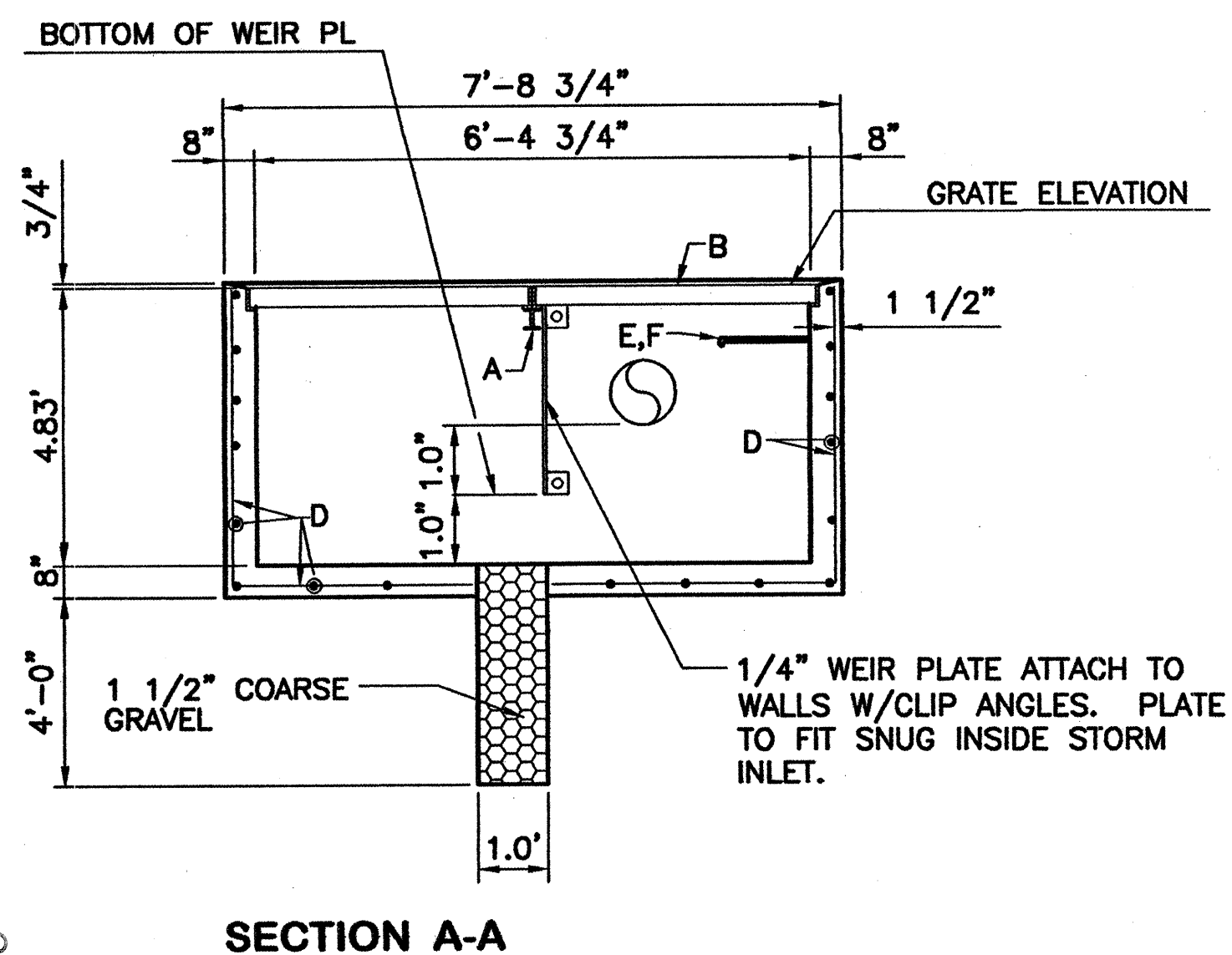
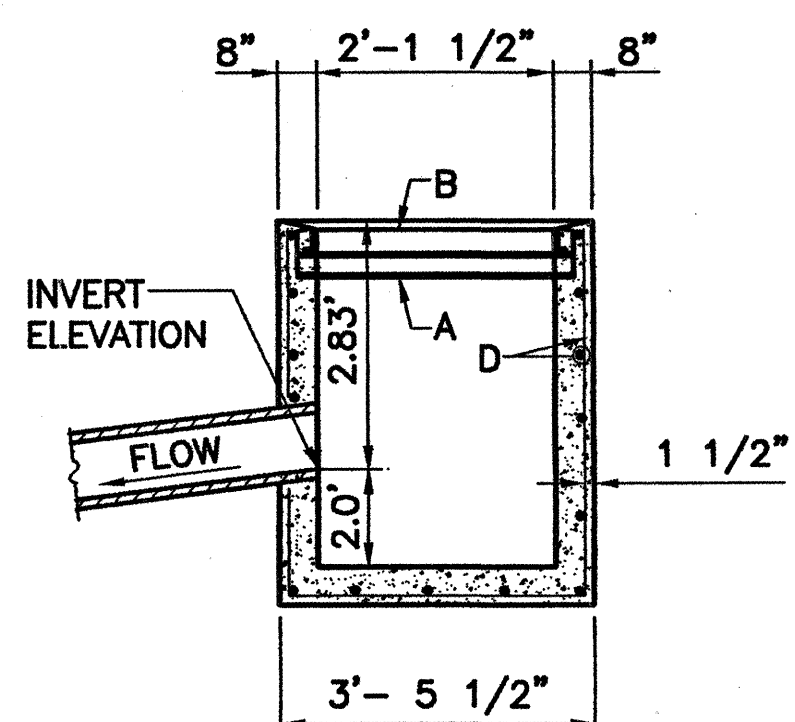
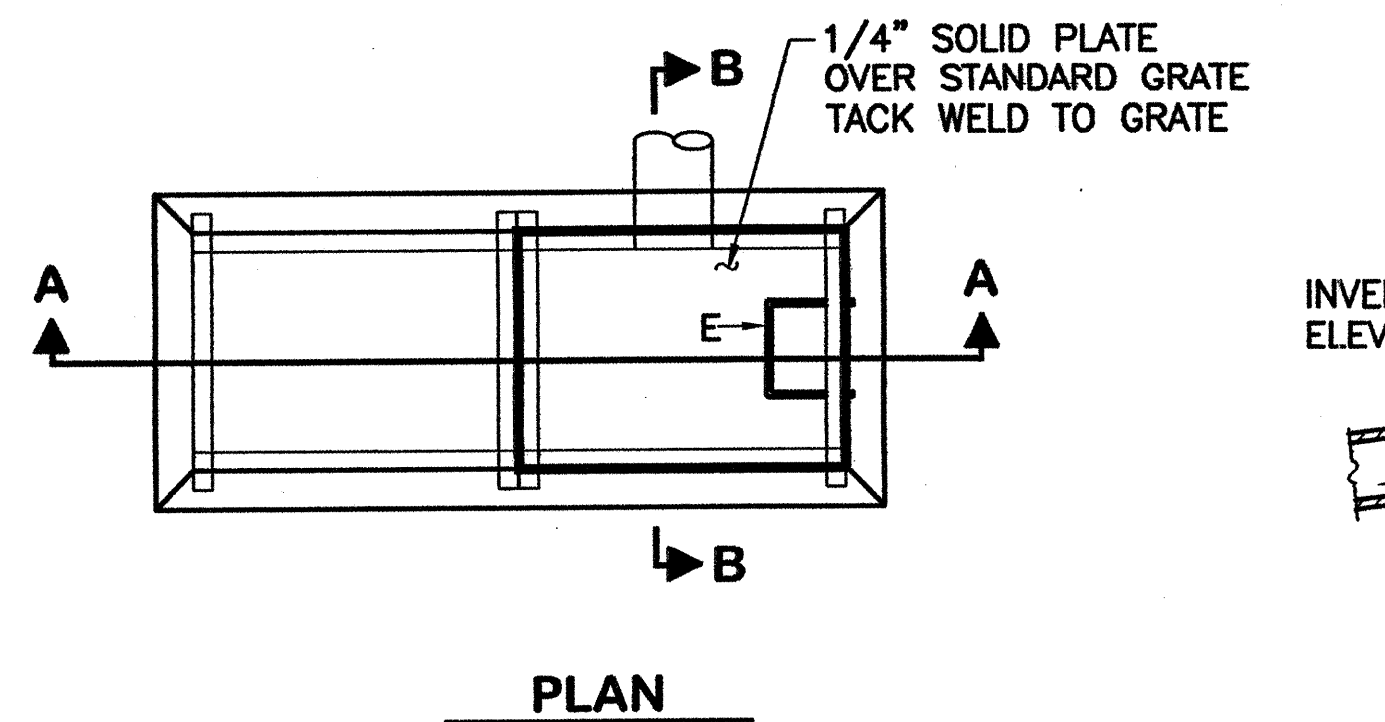
David J. Lanza
9-8-00



BENCH MARK
STAINLESS STEEL ROD STAMPED
"E-438-1984" ELEV. = 4996.617
LOCATED IN THE NEW QUADRANT
OF ORTEGA RD., N.W. 1.3' EAST
OF THE FENCE.

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY				
NORTH VALLEY DRAINAGE IMPROVEMENTS - AREAS 1 & 2 OLD EL CAMINO/NORTH EDITH RETENTION POND				
GRADING PLAN				
HOLMES & NARVER				
6501 AMERICAS PARKWAY, N.E. SUITE 700 ALBUQUERQUE, NEW MEXICO 87110				
FILE No.	DRAWN	CHECKED	DATE	Sheet 9 of 12
			JAN. 2000	

SCANNED BY
MESA REPRO



SECTION B-B

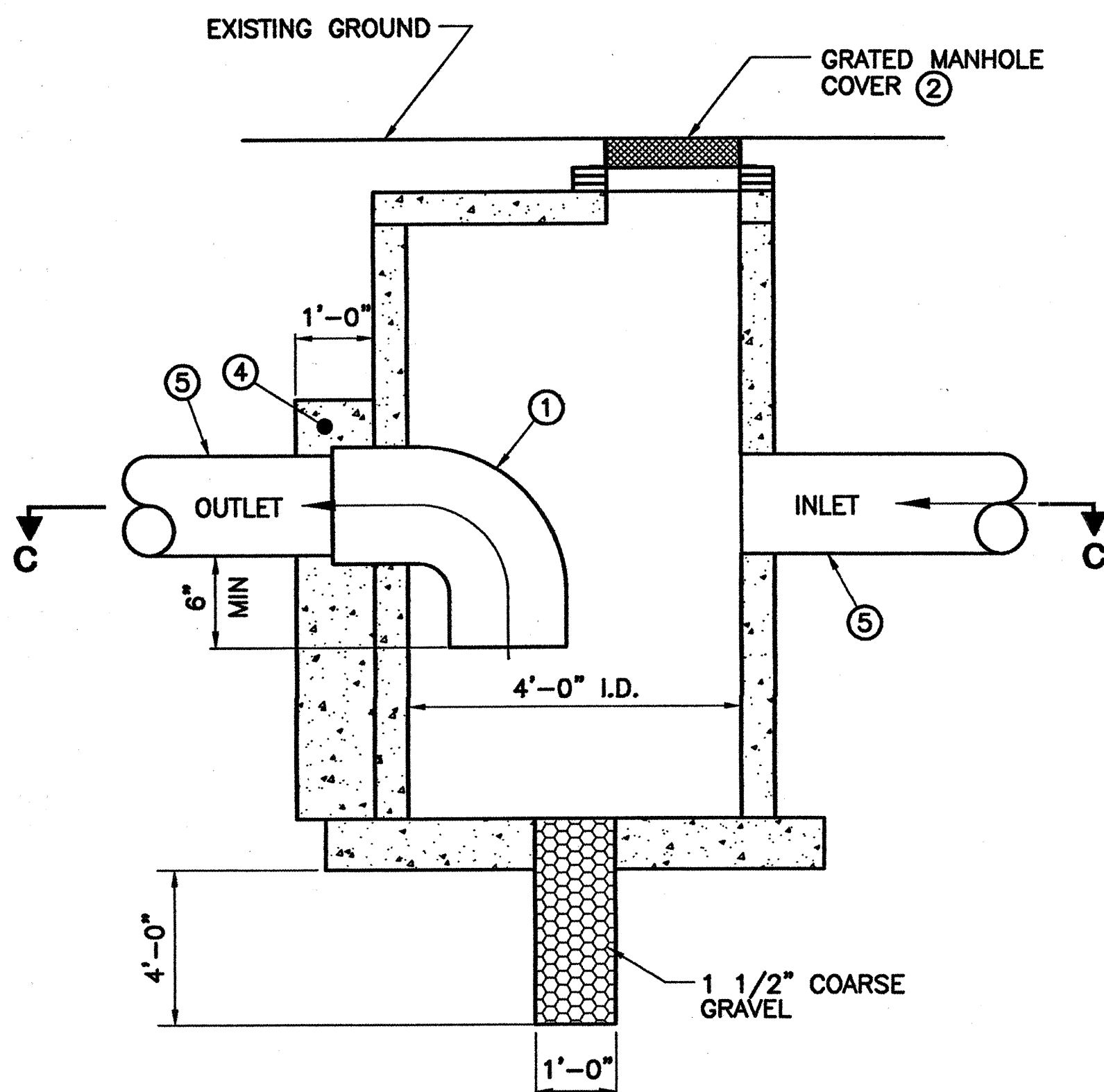
INLET NOTES:

- A. FOR CENTER SUPPORT ASSEMBLY. SEE CITY OF ALBUQUERQUE DWG. 2215.
- B. FOR FRAME & GRATING. SEE CITY OF ALBUQUERQUE DWGS. 2216, 2220 & 2221.
- C. CUT ONE HORIZONTAL AND ONE VERTICAL BAR MAX. AT PIPE OPENINGS.
- D. NO. 4 BARS AT 6" O.C. EACH WAY.
- E. USE STANDARD STEPS. SEE CITY OF ALBUQUERQUE STANDARD DWG. 2229.
- F. INSTALL STEPS ON DOWNSTREAM FACE.

**DOUBLE 'D'
MODIFIED STORM INLET**

SCALE: NONE

1
10



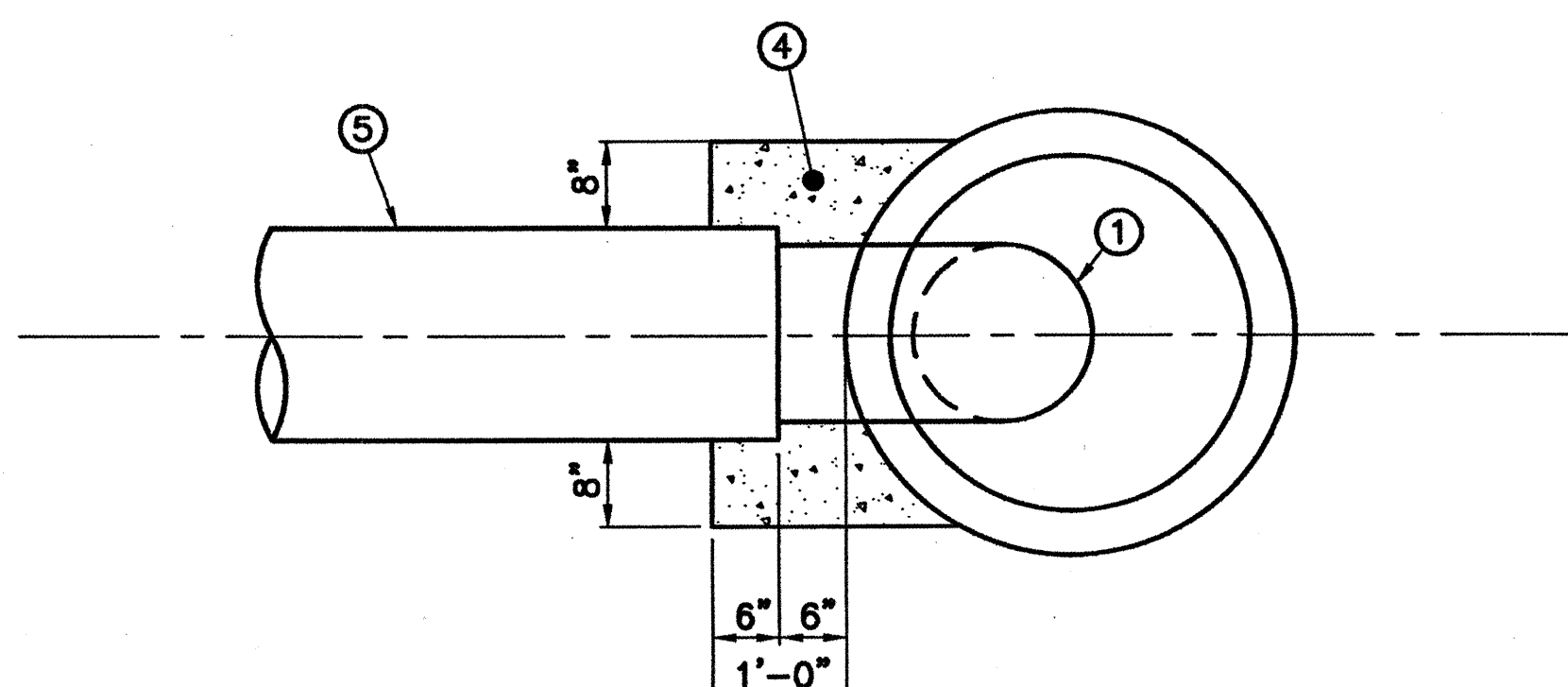
TYPE 'C' MANHOLE SILT TRAP

SCALE: NONE

3
3

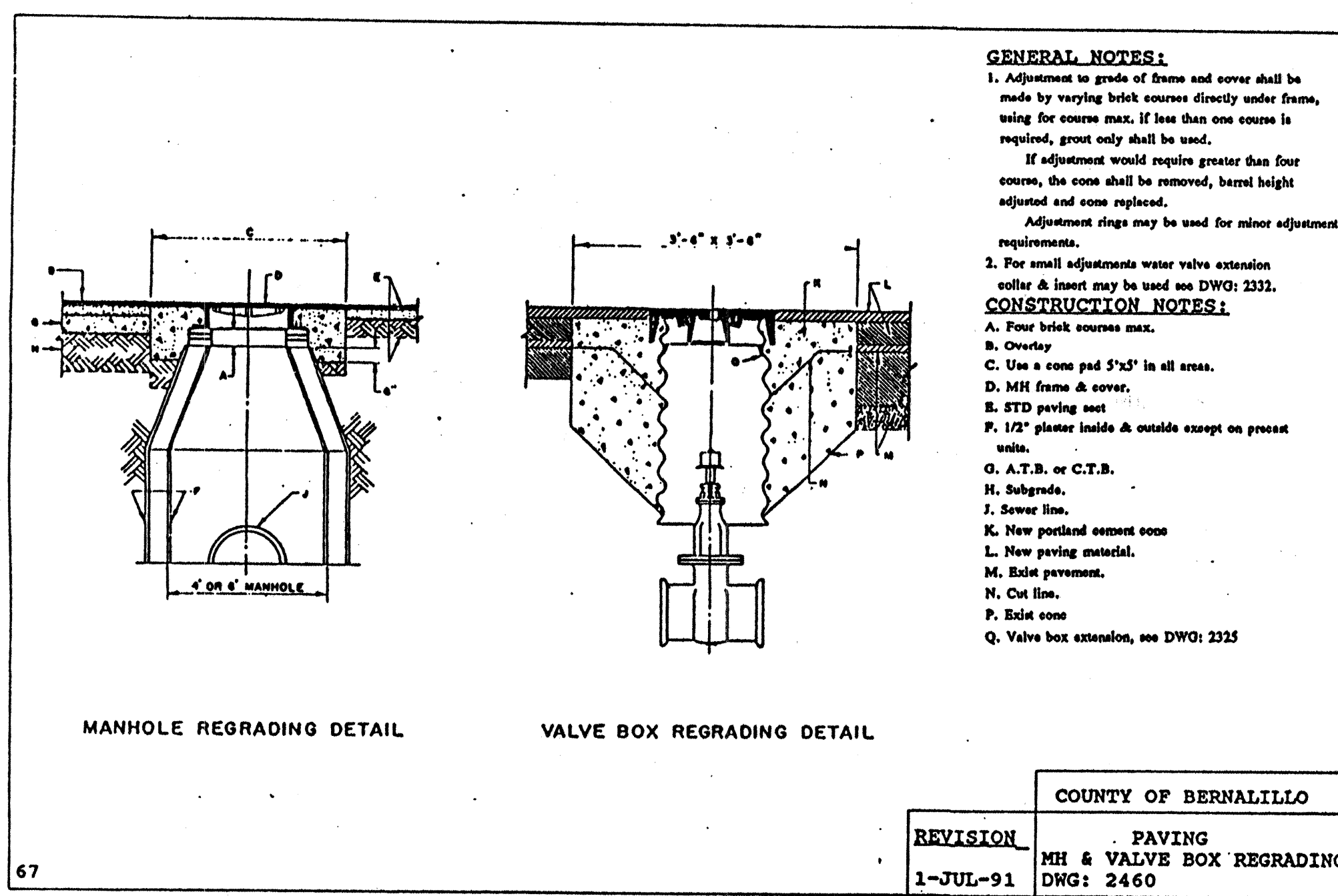
MANHOLE NOTES:

- 1 STEEL ELBOW 24" DIAMETER.
- 2 NEENAH R-2668 OR EQUAL.
- 3 FOR ADDITIONAL DETAILS SEE CITY OF ALBUQUERQUE DWG'S 2101, 2107, 2110.
- 4 CONCRETE COLLAR
- 5 28"x18" RCPA



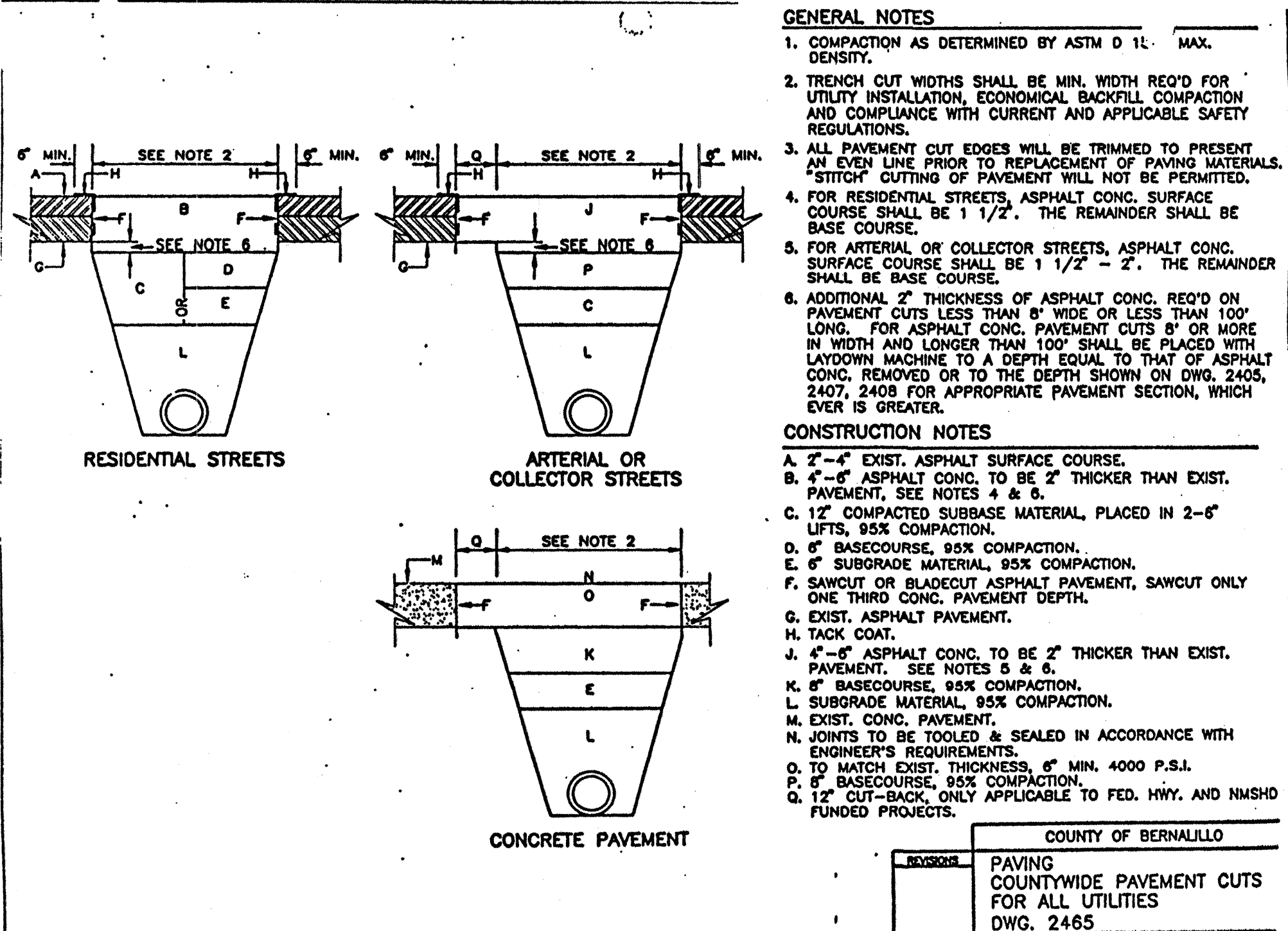
SECTION C-C

SCALE: NONE



GENERAL NOTES:

1. Adjustment to grade of frame and cover shall be made by varying brick courses directly under frame, using for course max. If less than one course is required, grout only shall be used. If adjustment would require greater than four courses, the cone shall be removed, barrel height adjusted and cone replaced. Adjustment rings may be used for minor adjustment requirements.
 2. For small adjustments water valve extension collar & insert may be used see DWG: 2332.
- CONSTRUCTION NOTES:**
- A. Four brick courses max.
 - B. Overlay.
 - C. Use a cone pad 5'x5' in all areas.
 - D. MH frame & cover.
 - E. STD paving seat.
 - F. 1/2" planer inside & outside except on present units.
 - G. A.T.B. or C.T.B.
 - H. Subgrade.
 - I. Sewer line.
 - K. New portland cement conc.
 - L. New paving material.
 - M. Exist. pavement.
 - N. Cut line.
 - P. Exist. cone.
 - Q. Valve box extension, see DWG: 2332.



GENERAL NOTES:

1. COMPACTION AS DETERMINED BY ASTM D 15. MAX. DENSITY.
2. TRENCH CUT WIDTHS SHALL BE MIN. WIDTH REQ'D FOR UTILITY INSTALLATION, ECONOMICAL BACKFILL COMPACTION AND COMPLIANCE WITH CURRENT AND APPLICABLE SAFETY REGULATIONS.
3. ALL PAVEMENT CUT EDGES WILL BE TRIMMED TO PRESENT AN EVEN LINE PRIOR TO REPLACEMENT OF PAVING MATERIALS. "STITCH" CUTTING OF PAVEMENT WILL NOT BE PERMITTED.
4. FOR RESIDENTIAL STREETS, ASPHALT CONC. SURFACE COURSE SHALL BE 1 1/2". THE REMAINDER SHALL BE BASE COURSE.
5. FOR ARTERIAL OR COLLECTOR STREETS, ASPHALT CONC. SURFACE COURSE SHALL BE 1 1/2" - 2". THE REMAINDER SHALL BE BASE COURSE.
6. ADDITIONAL 2" THICKNESS OF ASPHALT CONC. REQ'D ON PAVEMENT CUTS LESS THAN 8' WIDE OR LESS THAN 100' LONG. FOR ASPHALT CONC. PAVEMENT CUTS 8' OR MORE IN WIDTH AND LONGER THAN 100' SHALL BE PLACED WITH LAYDOWN MACHINE TO A DEPTH EQUAL TO THAT OF ASPHALT CONC. REMOVED OR TO THE DEPTH SHOWN ON DWG. 2405, 2407, 2408 FOR APPROPRIATE PAVEMENT SECTION, WHICH EVER IS GREATER.

CONSTRUCTION NOTES:

- A. 2'-4" EXIST. ASPHALT SURFACE COURSE.
- B. 4'-6" ASPHALT CONC. TO BE 2" THICKER THAN EXIST. PAVEMENT, SEE NOTES 4 & 5.
- C. 12" COMPACTED SUBBASE MATERIAL, PLACED IN 2'-6" LIFTS, 95% COMPACTION.
- D. 6" BASECOURSE, 95% COMPACTION.
- E. 6" SUBGRADE MATERIAL, 95% COMPACTION.
- F. SAWCUT OR BLADECUT ASPHALT PAVEMENT, SAWCUT ONLY ONE THIRD CONC. PAVEMENT DEPTH.
- G. EXIST. ASPHALT PAVEMENT.
- H. TACK COAT.
- J. 4'-6" ASPHALT CONC. TO BE 2" THICKER THAN EXIST. PAVEMENT, SEE NOTES 5 & 6.
- K. 6" BASECOURSE, 95% COMPACTION.
- L. SUBGRADE MATERIAL, 95% COMPACTION.
- M. EXIST. CONC. PAVEMENT.
- N. JOINTS TO BE TOOLED & SEALED IN ACCORDANCE WITH ENGINEER'S REQUIREMENTS.
- O. TO MATCH EXIST. THICKNESS, 6" MIN. 4000 P.S.I.
- P. 6" BASECOURSE, 95% COMPACTION.
- Q. 12" CUT-BACK, ONLY APPLICABLE TO FED. HWY. AND NMHD FUNDED PROJECTS.

COUNTY OF BERNALILLO	
REVISION	PAVING
1-JUL-91	MH & VALVE BOX REGRADING
	DWG: 2460

FOR INFORMATION ONLY

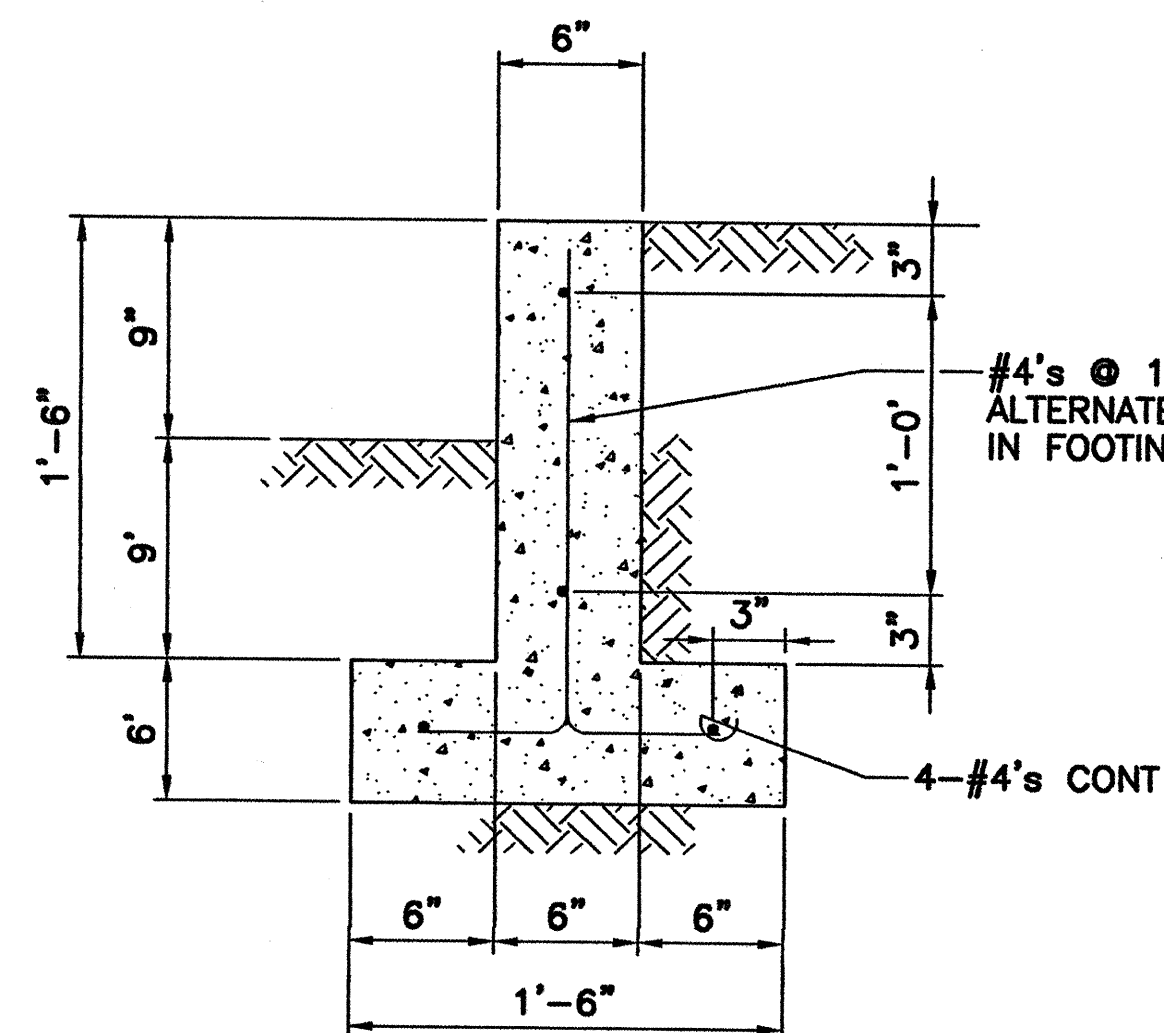
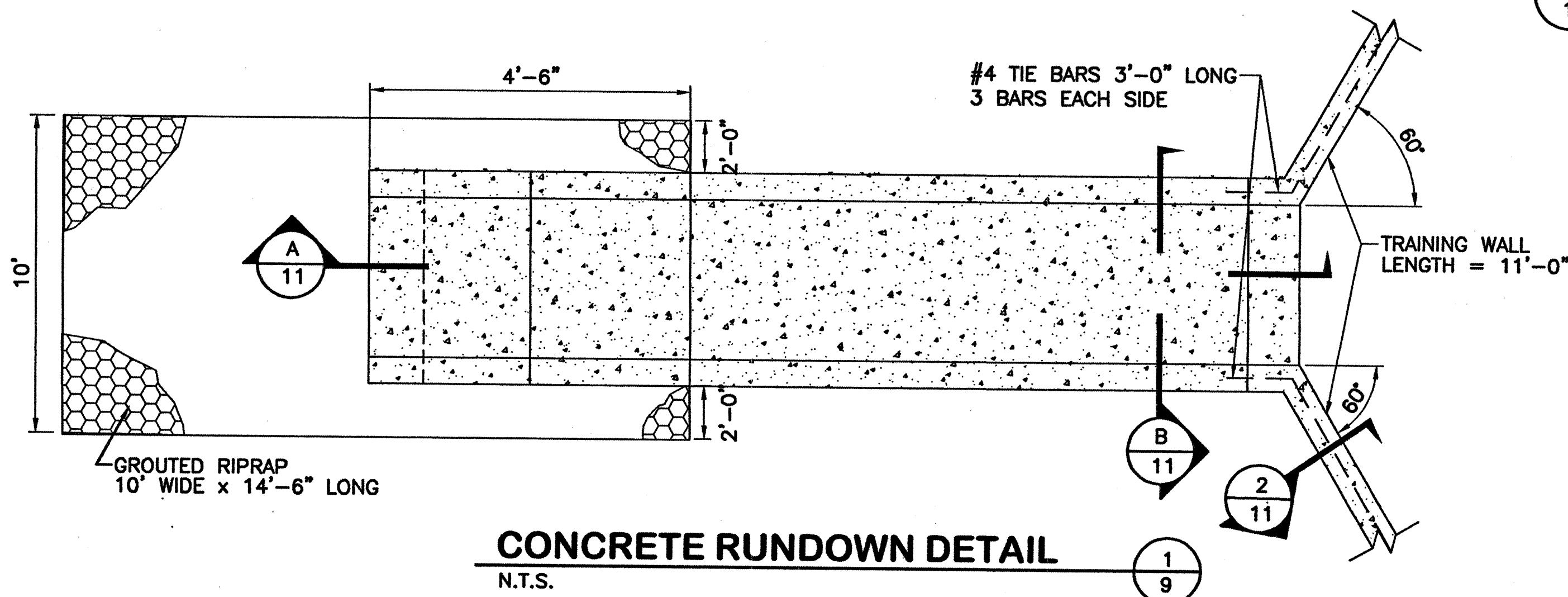
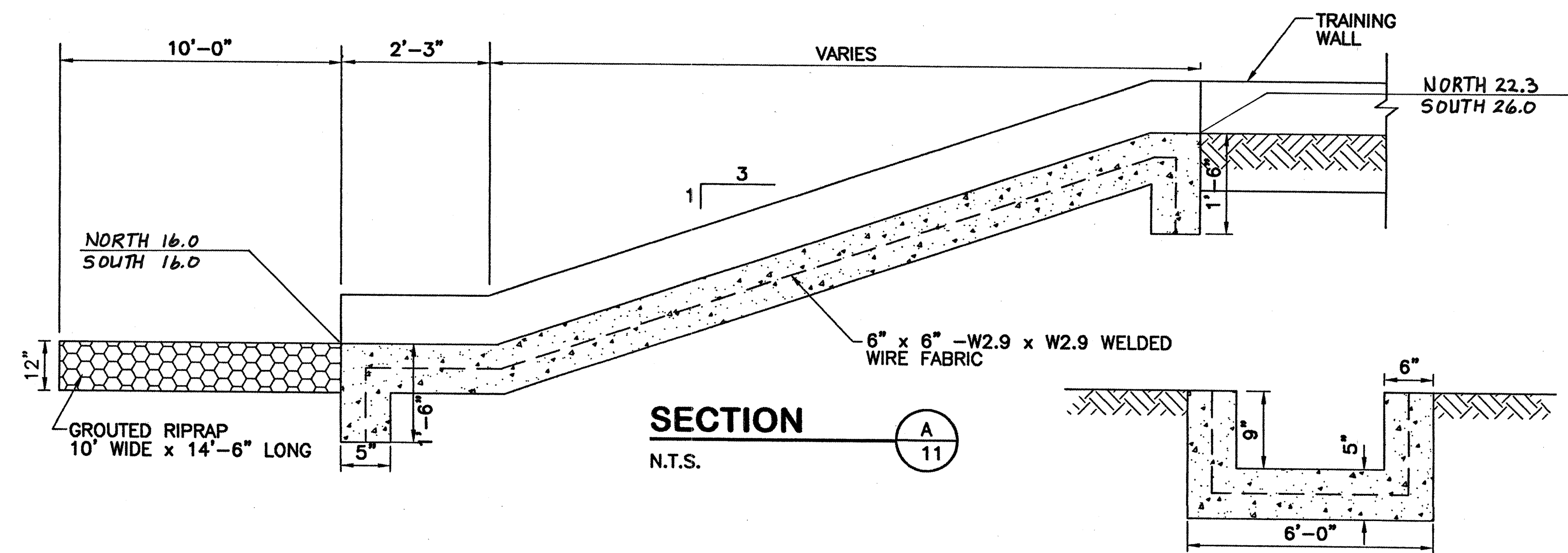
RECORD SET

David J. Larran
9-8-00



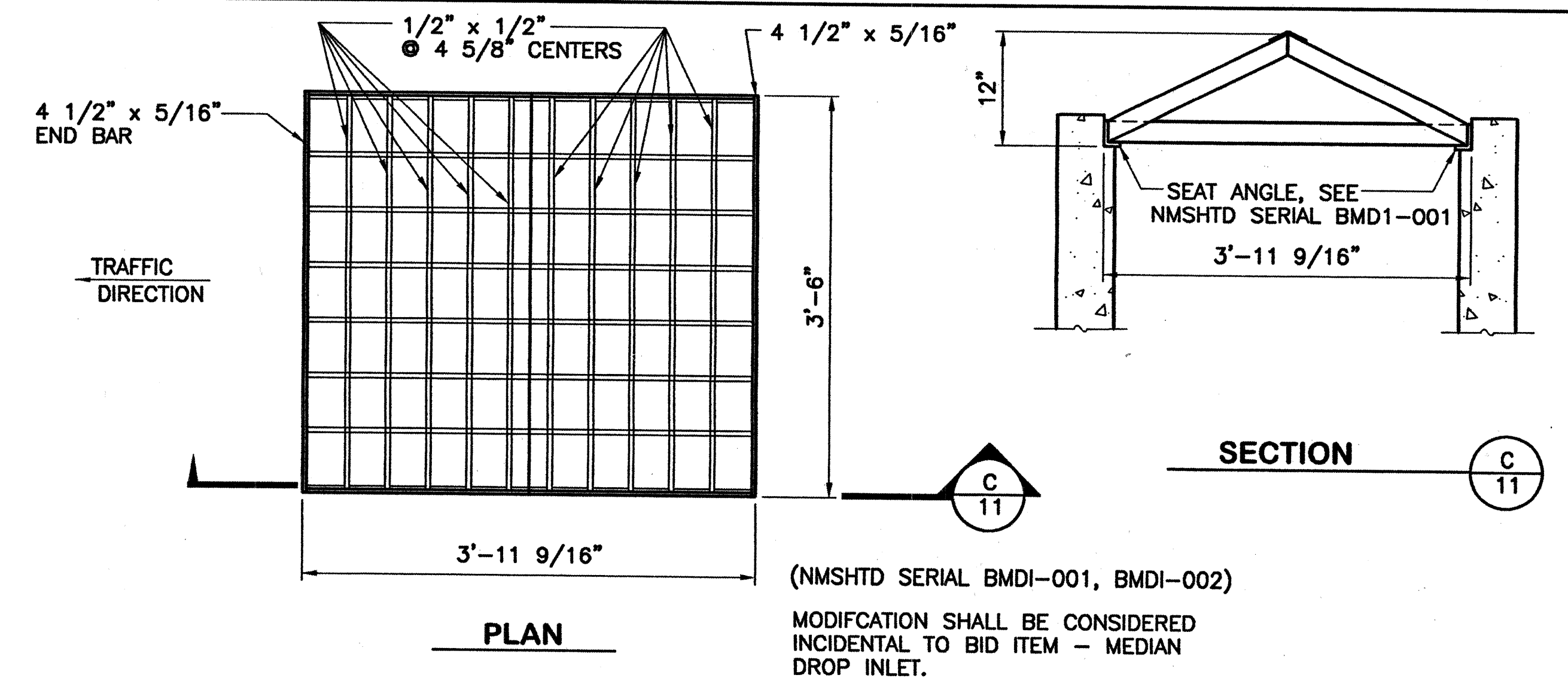
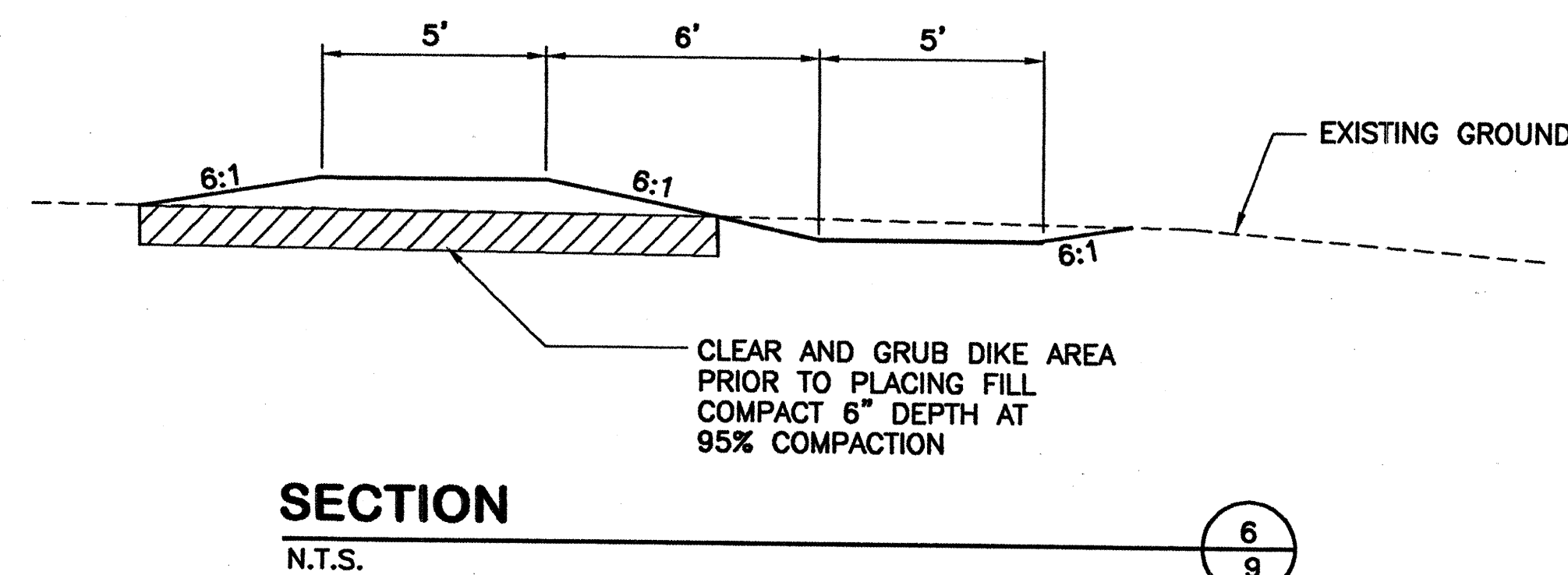
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP				ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY			
TITLE: (SEE AT RIGHT)				NORTH VALLEY DRAINAGE IMPROVEMENTS – AREAS 1 & 2 OLD EL CAMINO/NORTH EDITH RETENTION POND			
Design Review Committee		City Engineer Approval		Update		Mo./Day/Yr.	
APPROVED JAN 6 2000		APPROVED JAN - 6 2000		Last Design		Mo./Day/Yr.	
DESIGN REVIEW COMMITTEE		CITY ENGINEER					
City Project No.		Zone Map No.		Sheet Of		FILE No.	
		C-16, D-15		(SEE AT RIGHT)		DRAWN	
						CHECKED	
						DATE	
						JAN 2000	
						Sheet 10 Of 12	
				MISCELLANEOUS DETAILS			
				 Holmes & Narver			
				HOLMES & NARVER 6501 AMERICAS PARKWAY, N.E. SUITE 700 ALBUQUERQUE, NEW MEXICO 87110			

SCANNED BY
MESA REPRO



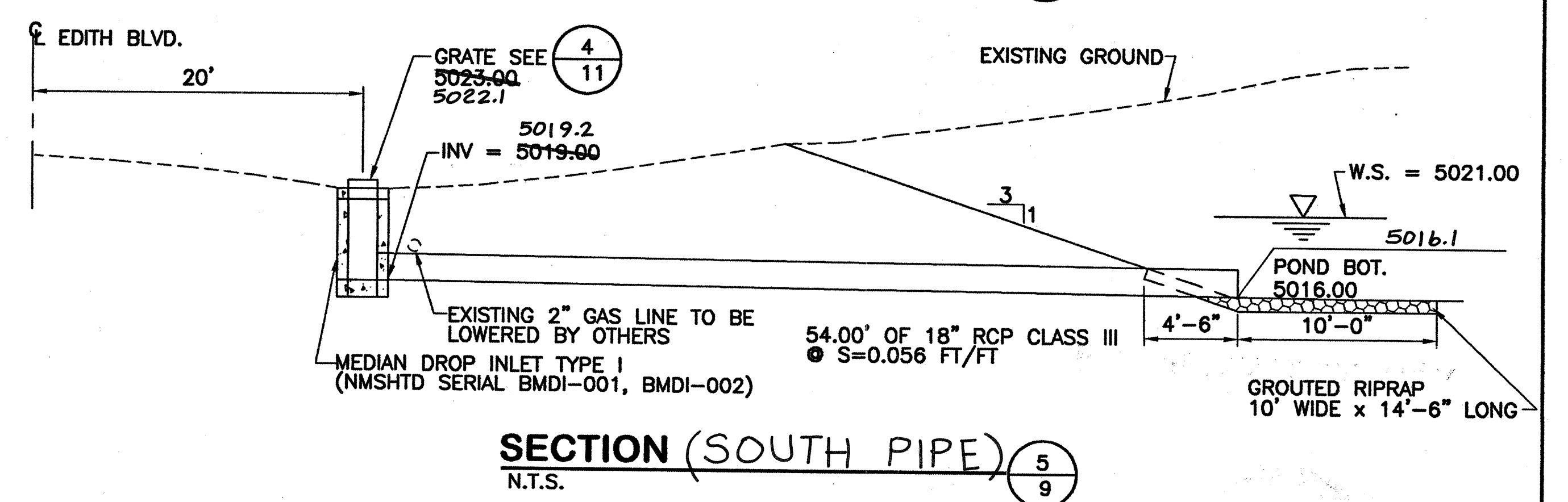
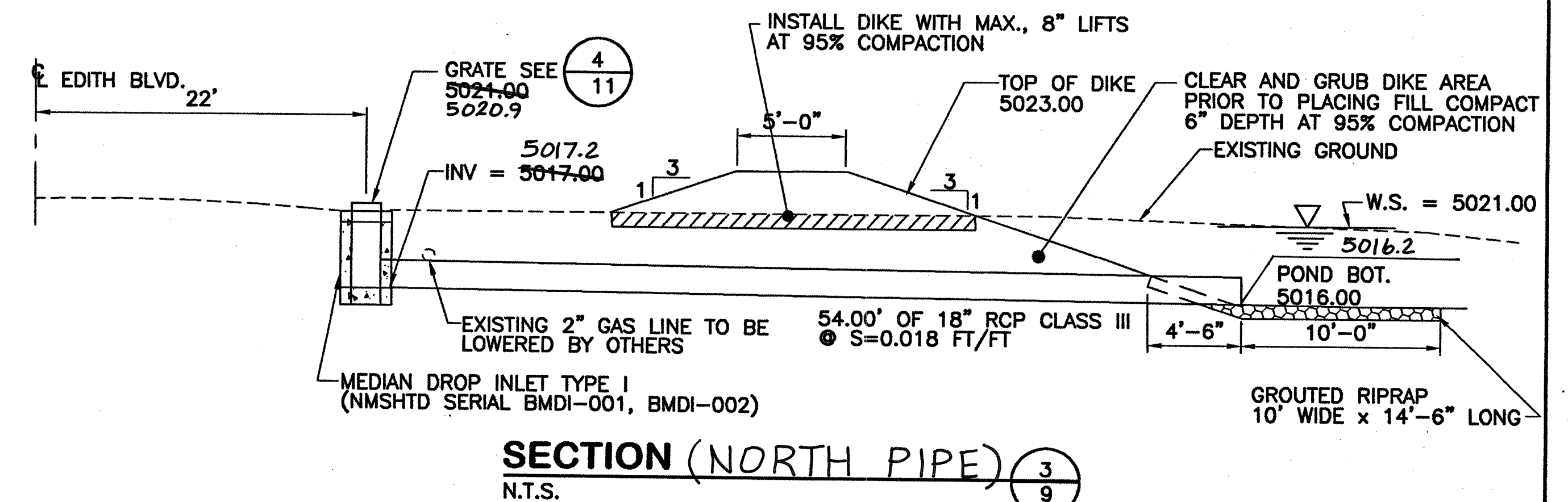
TRAINING WALL
N.T.S.

2/11



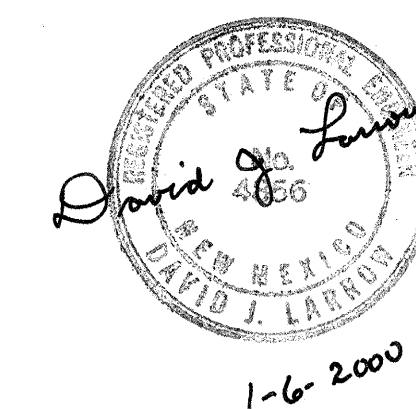
**MEDIAN DROP INLET
MODIFIED GRATE DETAIL**
N.T.S.

4/11



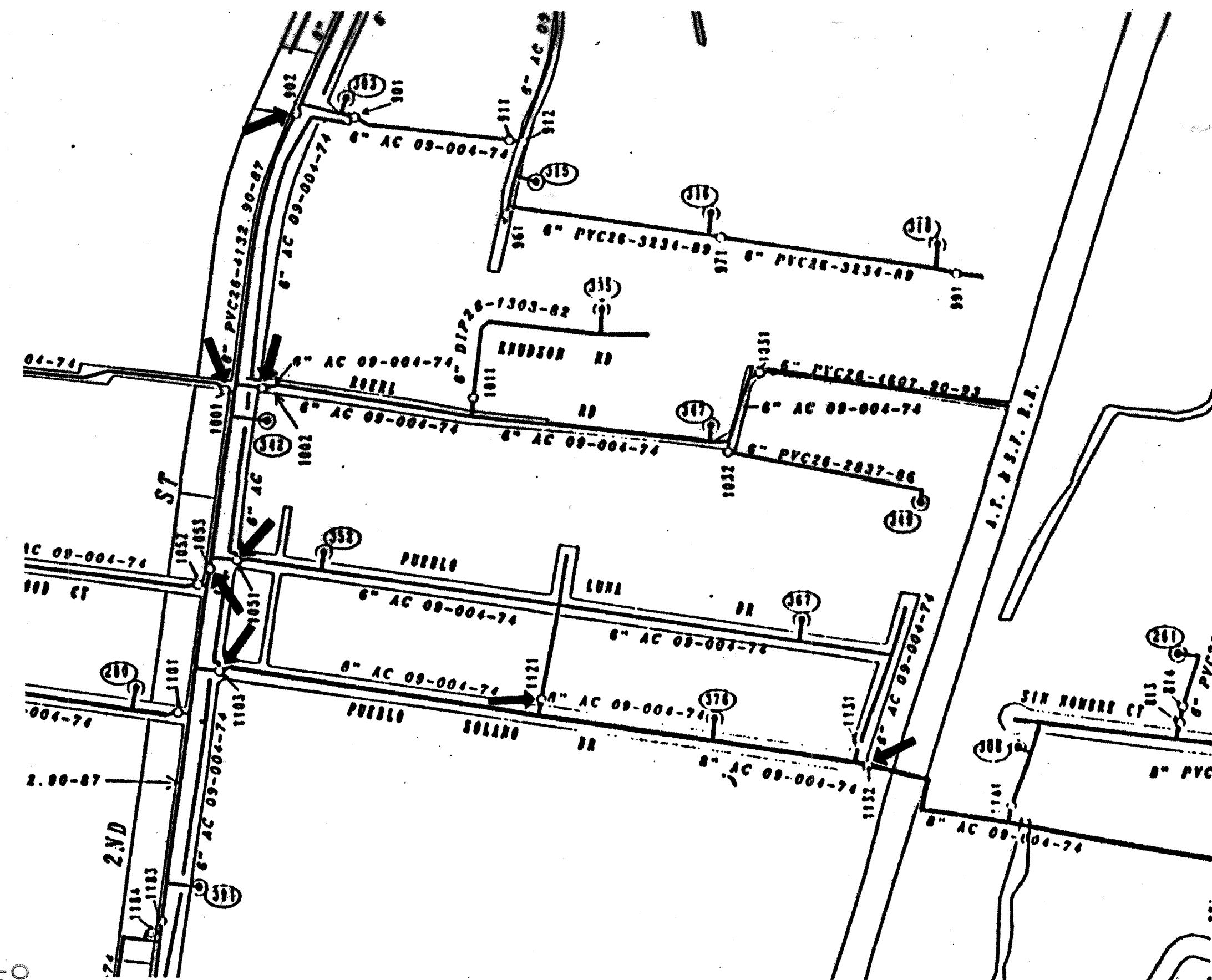
RECORD SET
David J. Larson
9-8-00

FOR INFORMATION ONLY



ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY			
NORTH VALLEY DRAINAGE IMPROVEMENTS - AREAS 1 & 2 OLD EL CAMINO/NORTH EDITH RETENTION POND RETENTION POND			
MISCELLANEOUS DETAILS			
HOLMES & NARVER 6501 AMERICAS PARKWAY, N.E. SUITE 700 ALBUQUERQUE, NEW MEXICO 87110			
FILE No.	DRAWN	CHECKED	DATE
			JAN. 2000
Sheet 11		Of 12	

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MESA REPRO

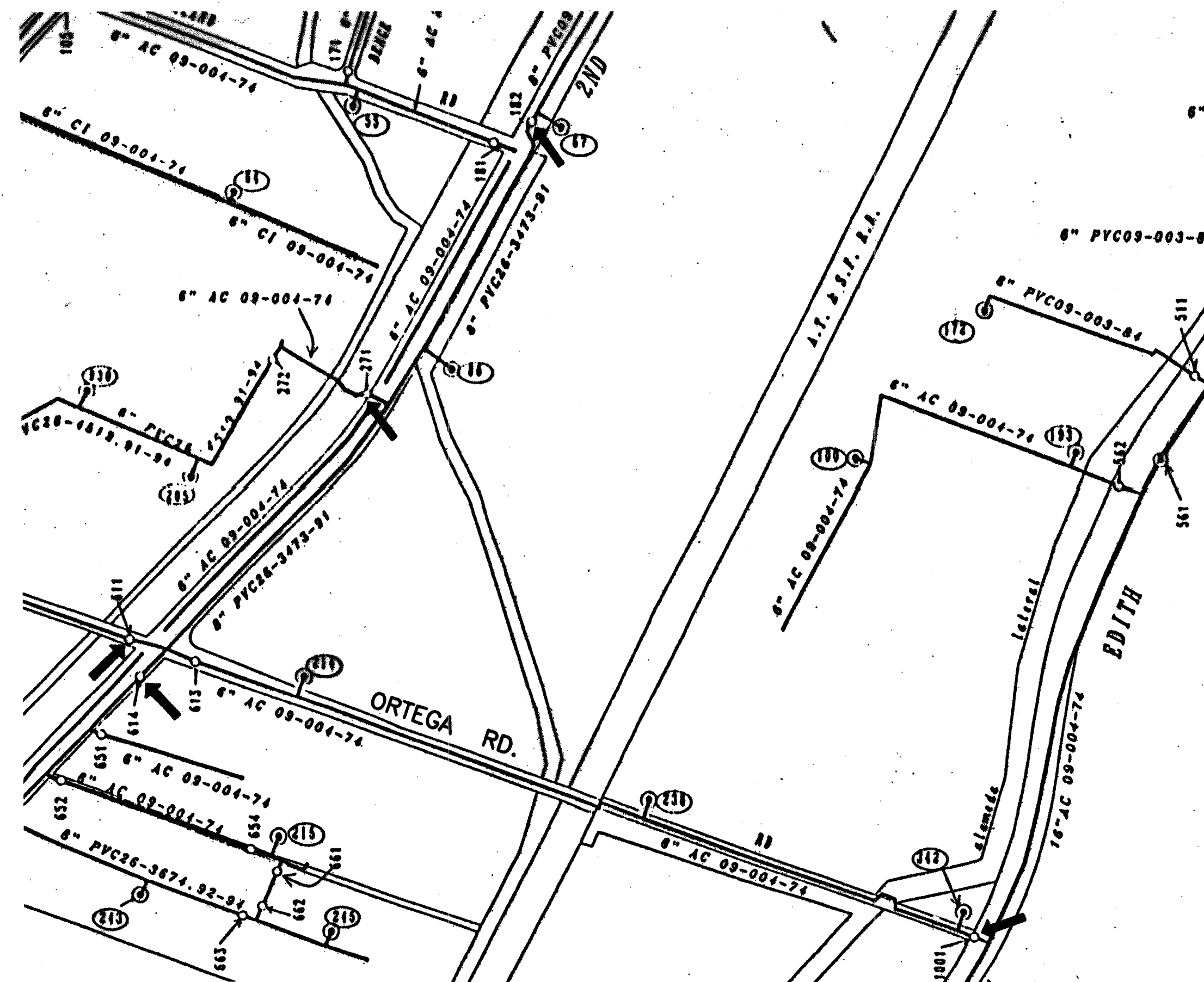


PUEBLO LUNA DR. AND PUEBLO SOLANO DR.

WATER SHUT-OFF REQUIREMENTS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR TIMING AND COORDINATION OF WATER SHUTOFF. AT LEAST FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CONTACT THE WATER SYSTEMS DIVISION, 857-8200, TO INITIATE IMPLEMENTATION OF THE NON-PRESSURIZED CONNECTION PLAN. IN ORDER TO COMPLETE THIS CONNECTION, THE FOLLOWING VALVES MUST BE CLOSED BY WATER SYSTEMS PERSONNEL.

MAP NO.	VALVE NO.
D-15	902
D-15	1001
D-15	1002
D-15	1051
D-15	1053
D-15	1103
D-15	1121
D-15	1132



ORTEGA RD.

WATER SHUT-OFF REQUIREMENTS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR TIMING AND COORDINATION OF WATER SHUTOFF. AT LEAST FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CONTACT THE WATER SYSTEMS DIVISION, 857-8200, TO INITIATE IMPLEMENTATION OF THE NON-PRESSURIZED CONNECTION PLAN. IN ORDER TO COMPLETE THIS CONNECTION, THE FOLLOWING VALVES MUST BE CLOSED BY WATER SYSTEMS PERSONNEL.

MAP NO.	VALVE NO.
C-16	182
C-16	271
C-16	611
C-16	614
C-16	1001

FOR INFORMATION ONLY

RECORD SET

David J. Larrow
9-8-00



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP				ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY			
TITLE: (SEE AT RIGHT)				NORTH VALLEY DRAINAGE IMPROVEMENTS - AREAS 1 & 2 OLD EL CAMINO/NORTH EDITH RETENTION POND			
Design Review Committee	City Engineer Approval	Lead Design Update	Mo./Day/Yr.	Mo./Day/Yr.	WATER SHUT-OFF PLANS		
					HOLMES & NARVER 6501 AMERICAS PARKWAY, N.E. SUITE 700 ALBUQUERQUE, NEW MEXICO 87110		
City Project No.	Zone Map No. C-16, D-15	Sheet (SEE AT RIGHT)	FILE No.	DRAWN	CHECKED	DATE JAN. 2000	Sheet 12 Of 12