

Property line	
Building	
Edge of pavement	
Curb & gutter	
Pavement striping	
Fence	
CMU or block wall	
Utility easement	
Underground electric line	
Overhead electric line	
Water line	
Sanitary sewer line	
Storm drain line	
Index contours	
Intermediate contours	
Power pole	
Light pole	
Electrical transformer	
Water valve	
Fire hydrant	
Water meter	
Post indicator valve	
Siamese connection	
Post hydrant	
Backflow preventor	
Sanitary sewer manhole	
Sanitary sewer single cleanout	
Sanitary sewer double cleanout	
Storm drain manhole	
Single storm drain inlet	
Grading spot elevations	

TC=25.00
FL=24.50

ABBREVIATIONS:
BOF

Bottom of footing	BOF
Bottom of wall	BOW
Existing ground	EG
Finish grade	FG
Finish floor	FF
Flowline	FL
Invert	INV
Top of asphalt	TA
Top of curb	TC
Top of footing	TOF
Top of pavement	TP
Top of retaining wall	TOR
Top of sidewalk	TSW
Top of wall	TOW
Rim	RIM

SHEET NUMBER	DESCRIPTION
1	TITLE SHEET, NOTES & VICINITY MAP
2	TOPOGRAPHIC SURVEY
3	BOUNDARY SURVEY
4	DEMOLITION PLAN
5	UTILITY PLAN & PROFILE 1+00 TO 4+50
6	UTILITY PLAN & PROFILE 4+50 TO 7+50
7	JOINT RESTRAINTS DETAILS
6a	Supplemental 16" WATERLINE TAPS

A circular professional engineer seal for Guy C. Jackson, New Mexico. The seal contains the text "GUY C. JACKSON", "NEW MEXICO", "13289", and "7-12-02". The outer ring of the seal reads "REGISTERED PROFESSIONAL ENGINEER".

SURVEYOR'S CERTIFICATION

I, Charles G. Cala, Jr., a duly qualified Registered Professional Land Surveyor under the laws of the State of New Mexico, do hereby certify that the "as-built" information shown on these drawings was obtained from field construction and "as-built" surveys performed by me or under my supervision, that the "as-built" information shown on these drawings was added by me or under my supervision, and that this "as-built" information is true and correct to the best of my knowledge and belief and that I am not responsible for any of the design concepts, calculations, engineering, or intent of the record drawings.

I, Guy C. Jackson of the firm BPLW Architects & Engineers, Inc., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, by survey information provided by Jeff Mortensen & Associates, Inc. NMPS number 11184 and by as-built information obtained and recorded by BPLW Architect's & Engineer's, Inc. and TLC Company during the duration of the project.

Charles G. Cala, Jr., NMPS 11/84 7.9.2004
Date

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	6		7	3	3	4	.	8	1		0	1	0	0

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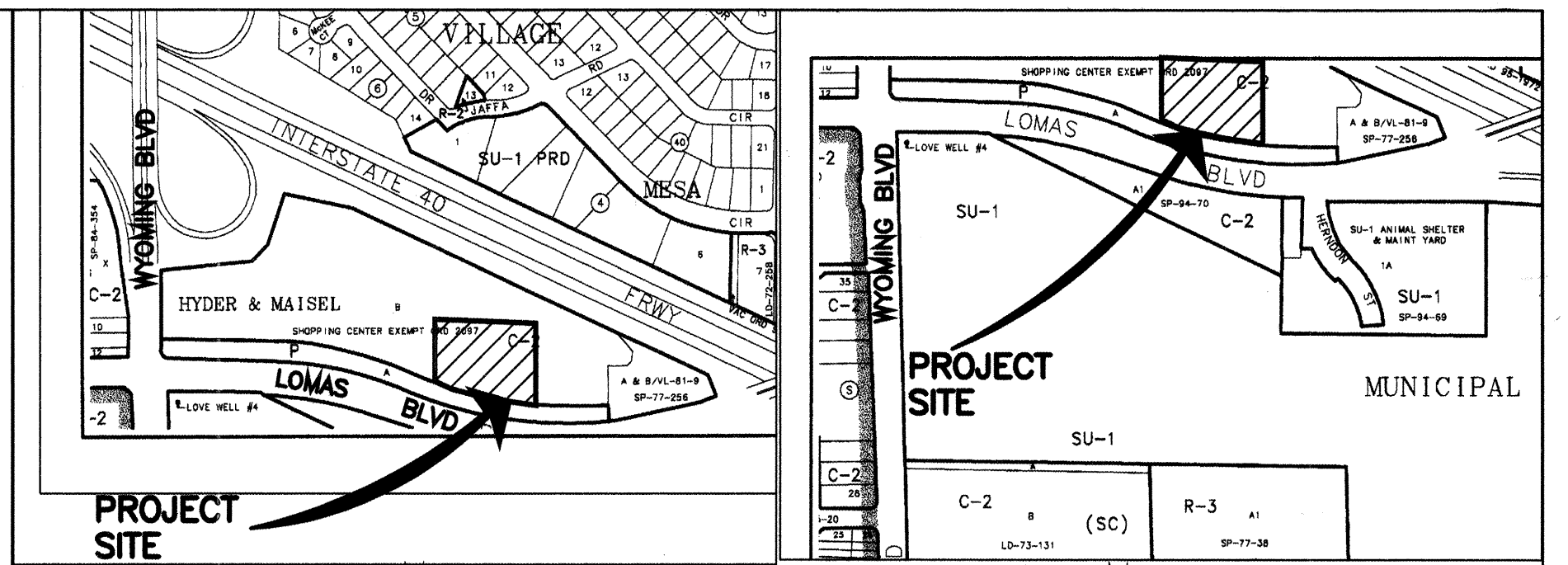
DRB # 1001984

BPLW
Architects & Engineers, Inc.

6200 Uptown Blvd. NE
Suite 400
Albuquerque, New Mexico 87110
(505) 881-2759

49 W. First Street
Suite 100
Mesa, Arizona 85201
(480) 827-2759

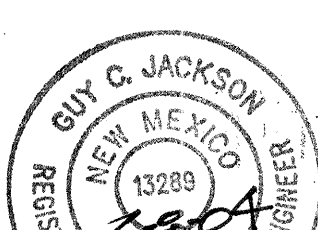
Designing to Shape the Future



VICINITY MAP
NOT TO SCALE
MAP NO. J-20-2

VICINITY MAP
NOT TO SCALE
MAP NO. K-20-Z

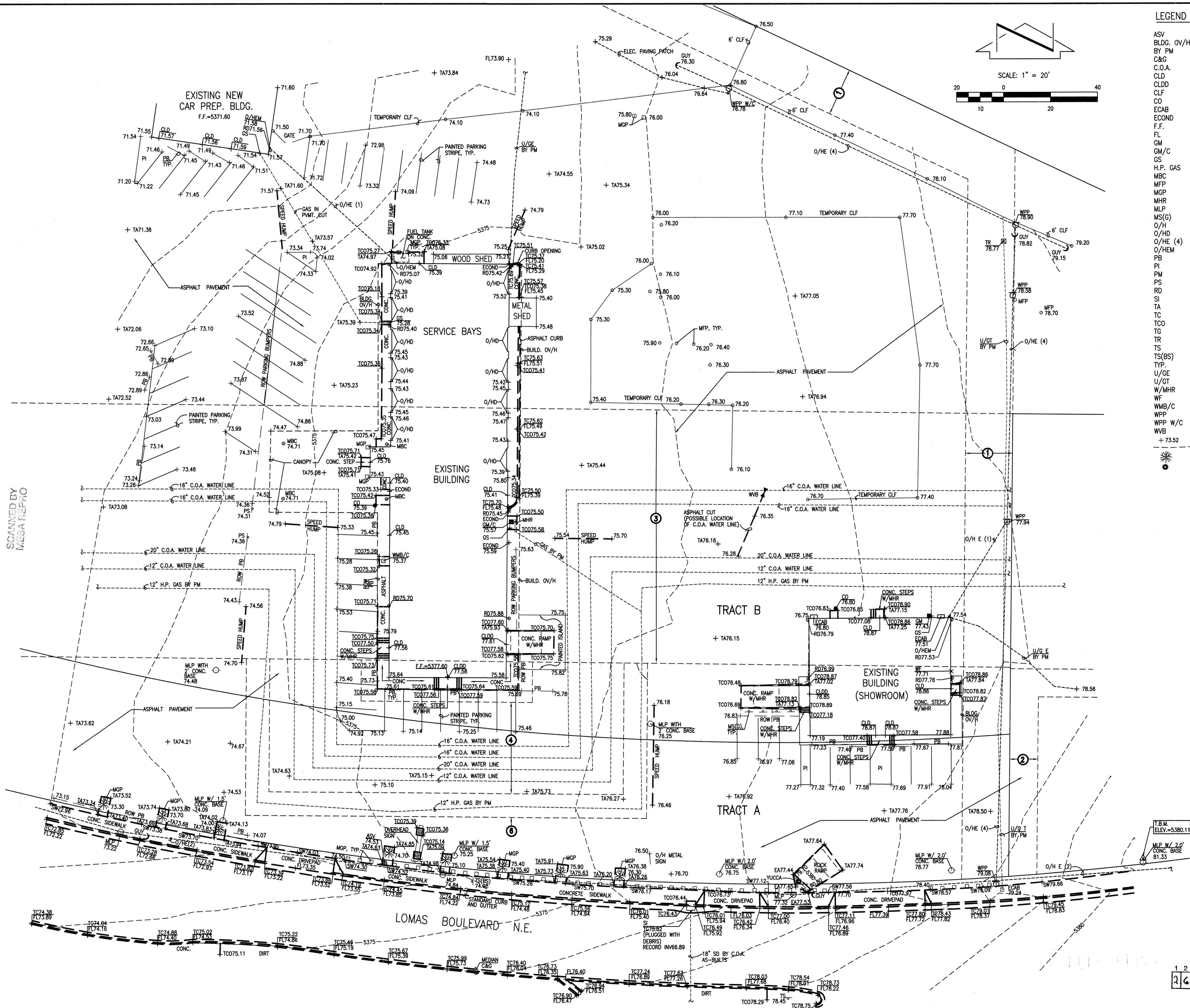
1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS--PUBLIC WORKS CONSTRUCTION--1986--UPDATE NO. 7.
2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 260-1990, (ALBUQUERQUE AREA) 1-800-321-ALERT (2537) (STATEWIDE) FOR LOCATION OF EXISTING UTILITIES.
3. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
4. SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES.
5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
6. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.
7. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
8. BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
9. TACK COAT REQUIREMENTS SHALL BE DETERMINED DURING CONSTRUCTION BY THE PROJECT ENGINEER.
10. SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
11. IF CURB IS DEPRESSED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
12. ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
13. CONTRACTOR SHALL COORDINATE WITH COA PUBLIC WORKS, WATER UTILITY DIVISION FOR THE EXECUTION OF THE VALVE SHUT OFF PLAN, NOT LESS THAN SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT THE EXISTING PUBLIC WATER UTILITIES. ONLY WATER SYSTEM DIVISION PERSONNEL SHALL OPERATE EXISTING VALVES. REFER TO SECTION 18 OF THE SPECIFICATIONS. CONTACT TOM SHOEMAKER AT 857-8200.
14. CONTRACTOR SHALL NOTIFY THE CITY SURVEYOR NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE SPECIFICATIONS.
15. FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADE PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. CONTRACTOR MUST REFER TO SECTION 19 OF THE STANDARD SPECIFICATION FOR TRAFFIC CONTROL.
16. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED STRIPING BY CONTRACTOR TO EXISTING LOCATION OR AS INDICATED BY THIS PLAN SET.
17. CAUTION: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29 CFR 1926, SUBPART P--EXCAVATIONS.
18. ANY WORK OCCURRING WITHIN AN ARTERIAL ROADWAY REQUIRES TWENTY--FOUR HOUR CONSTRUCTION.
19. CONTRACTOR SHALL MAINTAIN A GRAFFITI--FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
20. WHEN APPLICABLE, CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION.

NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION									
1	1,6		7/2004						
2	15,6		7/2004						
3	6a		8/2004						
REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE		
ENGINEER'S STAMP & SIGNATURE			APPROVALS	ENGINEER	DATE	*****			
			DRC Chairman	<i>[Signature]</i>	3-24-04	APPROVED FOR CONSTRUCTION			
			Transportation	<i>[Signature]</i>	3/11/04				
			Water/Wastewater	<i>[Signature]</i>	3/12/04				
			Hydrology	<i>[Signature]</i>	5/12/04				
			C.I.P.						
			Constr. Mngmnt.						
			Constr. Coord.	<i>[Signature]</i>	3-24-04				
City Project No.			733481			Sheet 1 of 7			

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☒ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☒ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE ENGINEER.
- ☐ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☐ IF CURB IS DERESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☐ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- ☒ THE REQUESTER OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

SCANNED BY
MESA REPRO



LEGEND

ASV
BLDG. OV/H
BY PM
C&G
C.O.A.
CLD
CLDD
CLF
CO
ECAB
ECOND
F.F.
FL
GM
GM/C
GS
H.P. GAS
MBC
MFP
MGP
MHR
MLP
MS(G)
O/H
O/HO
O/HE (4)
O/HEM
PB
PI
PM
PS
RD
SI
TA
TC
TCO
TG
TR
TS
TS(BS)
TYP.
U/GE
U/GT
W/MHR
WF
WMB/C
WPP
WPP W/C
WVB
+73.52
YUCCA

ANTI-SIPHON VALVE
BUILDING OVERHANG
BY PAINT MARK
CURB AND GUTTER
CITY OF ALBUQUERQUE
CENTERLINE OF DOOR
CENTERLINE OF DOUBLE DOOR
CHAINLINK FENCE
SANITARY SEWER CLEAN-OUT
ELECTRIC CABINET
ELECTRIC CONDUIT
FINISHED FLOOR ELEVATION
FLOWLINE
GAS METER
GAS METER ON CONCRETE
GAS SERVICE
HIGH PRESSURE GAS
METAL BUILDING COLUMN
METAL FENCE POST
METAL GUARD POST
METAL HANDRAIL
METAL LIGHT POLE
METAL SIGN (GENERAL)
OVERHEAD
OVERHEAD DOOR
OVERHEAD ELECTRIC (NO. OF LINES)
OVERHEAD ELECTRIC MAST
PARKING BUMPER
PAINTED ISLAND
PAINT MARK
PARKING SIGN
ROOF DRAIN
STORM INLET
TOP OF ASPHALT
TOP OF CONCRETE
TOP OF CONCRETE
TOP OF GRATE
TELEPHONE RISER
TRAFFIC SIGN
TRAFFIC SIGN (BUS STOP)
TYPICAL
UNDERGROUND ELECTRIC
UNDERGROUND TELEPHONE
WITH METAL HANDRAIL
WATER FAUCET
WATER METER BOX ON CONCRETE
WOOD POWER POLE
WOOD POWER POLE WITH CONDUIT
WATER VALVE BOX
EXISTING SPOT ELEVATION
EXISTING CONTOUR
SMALL DECIDUOUS TREE
YUCCA

PROJECT BENCHMARK

ACS 1 3/4" ALUMINUM DISK, STAMPED "ACS BM, 12-320" EPOXIED TO THE TOP OF THE CONCRETE DROP INLET IN THE ENE QUADRANT OF LOMAS BLVD. N.E. AND WYOMING BLVD. N.E.
ELEVATION = 5364.009 FEET (NGVD-1929)

T.B.M.

A MAG NAIL IN THE ASPHALT LOCATED SOUTHEAST OF THE SHOWROOM IMMEDIATELY NORTH OF THE CONCRETE SIDEWALK ALONG LOMAS BLVD. N.E. AS SHOWN ON THE DRAWING.
ELEVATION = 5380.11 FEET

LEGAL DESCRIPTION

PORTIONS OF TRACTS A AND B, HYDER AND MAISEL SUBDIVISION

EASEMENT KEYED NOTES

- 20' UTILITY EASEMENT GRANTED BY PLAT C5-111
- 12' ACCESS EASEMENT GRANTED BY PLAT B13-3
- APPROXIMATE LOCATION FOR EASEMENTS RESERVED FOR PUBLIC UTILITIES BY COMMISSION ORDINANCE No. 2098 EXECUTED 04-17-1962
- WATER UTILITIES EASEMENT GRANTED BY DOCUMENT FILED 06-08-1972, BOOK MISC. 263, PAGES 711-712, DOC. #90942
- RIGHT OF WAY AND EASEMENT GRANTED TO SOUTHERN UNION GAS BY DOCUMENT FILED 06-08-1972, BOOK MISC. 263, PAGES 815-816, DOC. #91099

Notes:

- A topographic survey was performed in January and February, 2004. This is not a boundary survey, apparent property corners are shown for orientation only. Boundary data shown is based upon a previous survey conducted by this office.
- All distances are ground distances.
- Site located within Sections 17 & 20, Township 10 North, Range 4 East, N.M.P.M.
- Utility information shown hereon is based upon onsite surface evidence and City of Albuquerque Distribution Maps. Utility lines shown on this drawing are shown in an approximate manner only and such lines may exist where none are shown. If any such existing lines are shown, the location is based upon information provided by the owner of said utility, and the information may be incomplete, or may be obsolete by the time construction commences. The surveyor has conducted only preliminary investigation of the location, depth, size, or type of existing utility lines, pipelines, or underground utility lines. This investigation is not conclusive, and may not be complete, therefore, makes no representation pertaining thereto, and assumes no responsibility or liability therefor. The property owner, developer, or contractor shall inform itself of the location of any utility line, pipeline, or underground utility line in or near the area of the work in advance of and during excavation work. The property owner, developer, or contractor is fully responsible for any and all damage caused by its failure to locate, identify and preserve any and all existing utilities, pipelines, and underground utility lines. In planning and conducting excavation, the contractor shall comply with state statutes, municipal and local ordinances, rules and regulations, if any, pertaining to the location of these lines and facilities.

RECORD DRAWING

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26 3334.81 0204

793481

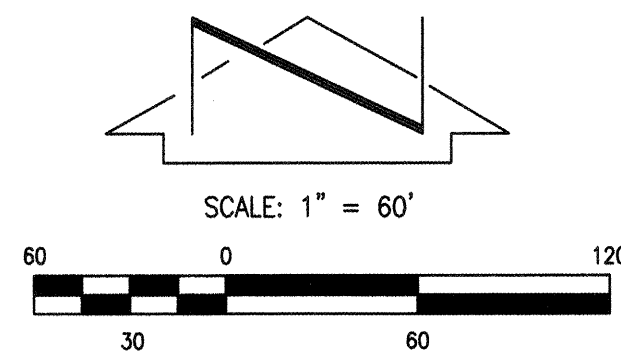


JEFF MORTENSEN & ASSOCIATES, INC.
6010-B MIDWAY PARK BLVD. N.E.
ALBUQUERQUE, N.M. 87109
ENGINEERS & SURVEYORS (C60) 345-4250
FAX: 305 345-4254 E-mail: jma@jma-inc.com

SUPPLEMENTAL TOPOGRAPHIC SURVEY SUBURU BUILDING RICH FORD

SURVEYED BY R.J.E.
DRAWN BY S.G.H.
APPROVED BY C.G.C.

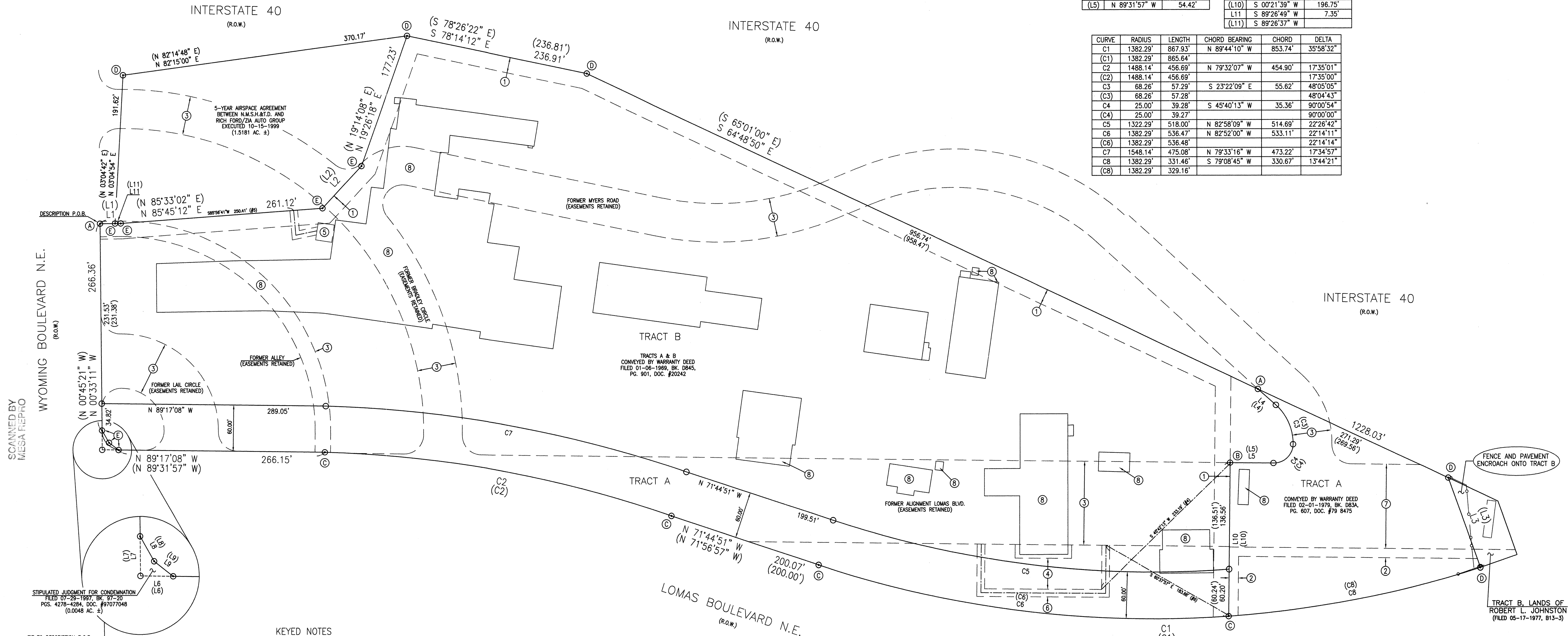
NO.	DATE	BY	REVISIONS	JOB NO.
1	02-2004	R.J.E.		2001.024.6
2	02-2004	S.G.H.		
3		C.G.C.		
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				



BOUNDARY TABLES		
LINE	DIRECTION	DISTANCE
L1	N 89°26'49" E	26.74'
(L1)	N 89°14'39" E	
L2	N 42°37'07" E	74.37'
(L2)	N 42°24'57" E	
L3	S 19°48'50" E	122.12'
(L3)	S 20°01' E	122.50'
L4	S 48°22'10" E	31.09'
(L4)	S 47°36'40" E	29.43'
L5	N 89°25'45" W	55.92'
(L5)	N 89°31'57" W	54.42'

LINE	DIRECTION	DISTANCE
L6	N 89°17'08" W	21.07'
(L6)	N 89°31'57" W	21.05'
L7	N 00°33'11" W	25.19'
(L7)	N 00°45'21" W	
L8	N 29°23'43" W	18.38'
(L8)	N 29°35'53" W	
L9	N 52°28'54" W	15.50'
(L9)	N 52°41'04" W	15.47'
L10	S 00°33'54" W	196.76'
(L10)	S 00°21'39" W	196.75'
L11	S 89°26'49" W	7.35'
(L11)	S 89°26'37" W	

CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA
C1	1382.29'	867.93'	N 89°44'10" W	853.74'	35°58'32"
(C1)	1382.29'	865.64'			
C2	1488.14'	456.69'	N 79°32'07" W	454.90'	17°35'01"
(C2)	1488.14'	456.69'			17°35'00"
C3	68.26'	57.29'	S 23°22'09" E	55.62'	48°05'05"
(C3)	68.26'	57.28'			48°04'43"
C4	25.00'	39.28'	S 45°40'13" W	35.36'	90°00'54"
(C4)	25.00'	39.27'			90°00'00"
C5	1322.29'	518.00'	N 82°58'09" W	514.69'	22°26'42"
C6	1382.29'	536.47'	N 82°52'00" W	533.11'	22°14'11"
(C6)	1382.29'	536.48'			22°14'14"
C7	1548.14'	475.08'	N 79°33'16" W	473.22'	17°34'57"
C8	1382.29'	331.46'	S 79°08'45" W	330.67'	13°44'21"
(C8)	1382.29'	329.16'			



KEYED NOTES

- 20' UTILITY EASEMENT GRANTED BY PLAT C5-111
 - 12' ACCESS EASEMENT GRANTED BY PLAT B13-3
 - APPROXIMATE LOCATION FOR EASEMENTS RESERVED FOR PUBLIC UTILITIES BY COMMISSION ORDINANCE No. 2098 EXECUTED 04-17-1962
 - WATER UTILITIES EASEMENT GRANTED BY DOCUMENT FILED 06-08-1972, BOOK MISC. 263, PAGES 711-712, DOC. #90942
 - P.N.M. AND M.S.T.&T. UNDERGROUND EASEMENT GRANTED BY DOCUMENT FILED 05-18-1989, BOOK MS 750A, PAGE 196, DOC. #8944763
 - RIGHT OF WAY AND EASEMENT GRANTED TO SOUTHERN UNION GAS BY DOCUMENT FILED 06-08-1972, BOOK MISC. 263, PAGES 815-816, DOC. #91099
 - 108' UTILITY EASEMENT AS DEPICTED ON PLAT D6-95
 - BUILDING VIOLATES EASEMENTS RESERVED BY COMMISSION ORDINANCE No. 2098
- (A) FOUND N.M.S.H.&T.D. HWY. T-RAIL
- (B) FOUND #4 REBAR W/CAP STAMPED "LS 6446"
- (C) FOUND NAIL W/WASHER STAMPED "LS 6446"
- (D) SET #5 REBAR W/CAP STAMPED "NEW MEXICO PS 11184"
- (E) SET MAG NAIL W/WASHER STAMPED "NMPS 11184"

RECORD DRAWING

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 7334 81 6364

733481

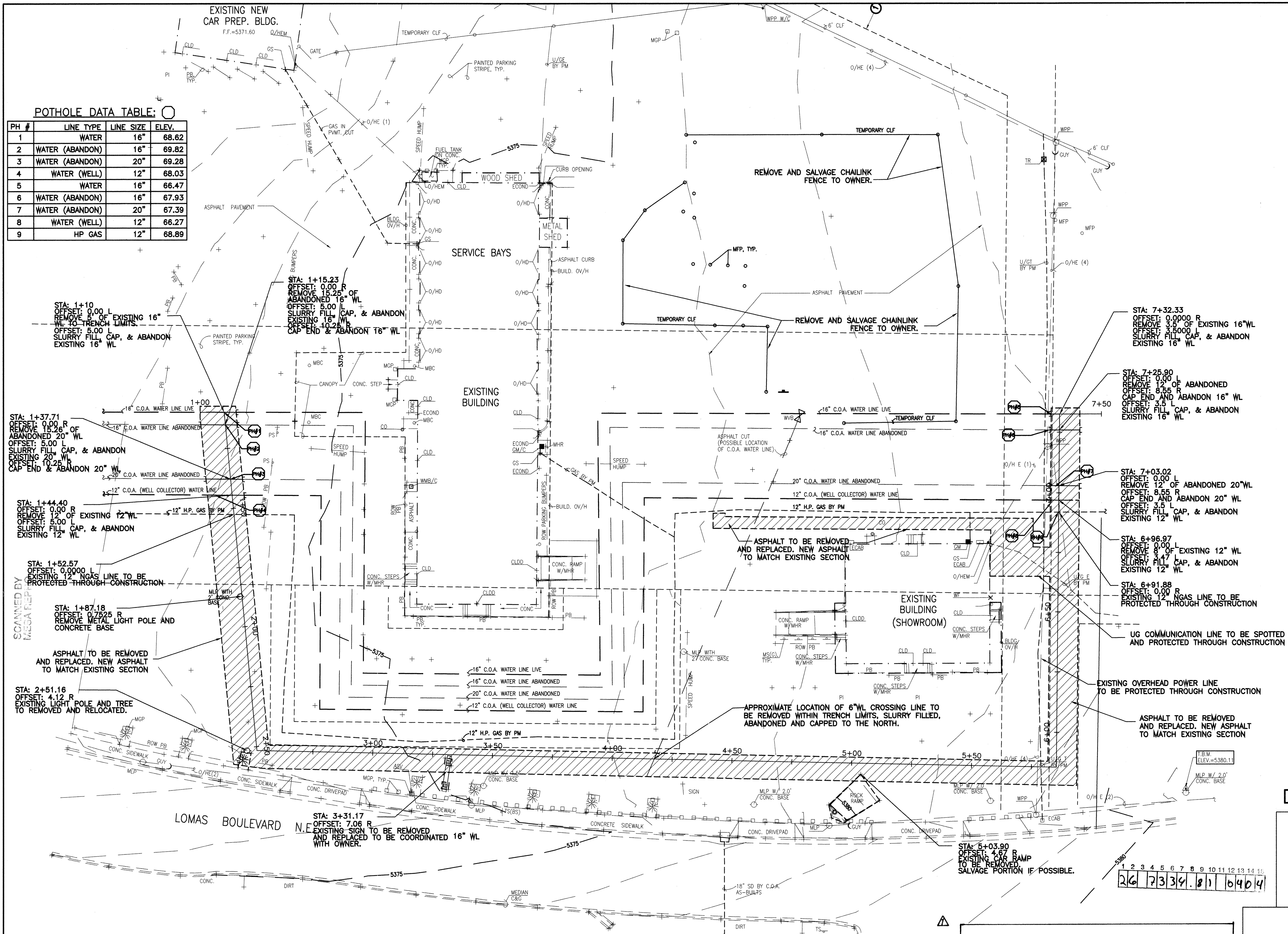


JEFF MORTENSEN & ASSOCIATES, INC.
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ALBUQUERQUE, NM 87109
ENGINEERS & SURVEYORS (SOS) 345-4250
FAX: 505 345-4254 E-MAIL: jma@swcp.com

BOUNDARY SURVEY
TRACTS A AND B, HYDER-MAISEL SUBDIVISION AND
TRACT A, LANDS OF ROBERT L. JOHNSTON

SURVEYED BY	DATE	BY	REVISIONS	JOB NO.
R.J.E.				2001.0241
DRAWN BY	DATE	BY	REVISIONS	SHEET
T.N.T.				07-2001
APPROVED BY	DATE	BY	REVISIONS	SHEET
C.G.C.				3 OF 7

PH #	LINE TYPE	LINE SIZE	ELEV.
1	WATER	16"	68.82
2	WATER (ABANDON)	16"	69.82
3	WATER (ABANDON)	20"	69.28
4	WATER (WELL)	12"	68.03
5	WATER	16"	66.47
6	WATER (ABANDON)	16"	67.93
7	WATER (ABANDON)	20"	67.39
8	WATER (WELL)	12"	66.27
9	HP GAS	12"	68.89



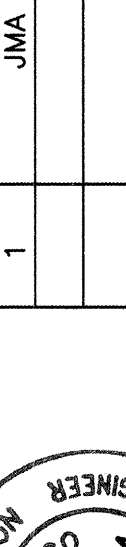
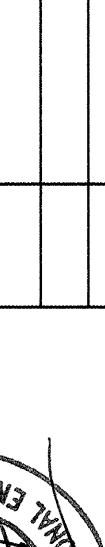
GENERAL NOTES:

- A. The contractor shall field verify all existing utility locations and notify the engineer immediately of any discrepancies.
- B. Contractor is responsible for all repair and/or replacement of all utility conduits & existing lines.
- C. Contractor shall park equipment and vehicles as not to interfere with normal activities of other contractors on site.
- D. Any damage to the existing facilities (curb & gutter, pavement, conduits, landscaping, utility lines, etc.) during construction shall be replaced at the contractors expense.
- E. Topographical & boundary survey provided by Jeff Mortensen and Assoc., inc. BPLW is not responsible for any discrepancies in the surveys.
- F. Contractor to adjust all existing valve covers, manholes, grates to new grades were applicable.
- I. Surface features associated with underground utilities are shown on utility plan for clarity. See applicable utility plans for construction notes and details.

LEGEND:

 ASPHALT REMOVAL LIMITS

 WATERLINE CAP

ENGINEER'S STAMP & SIGNATURE				SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION			
				Field Notes		ACS 1 3/4" ALUMINUM DISK STAMPED "ACS BM. 12-120" EXPOSED TO TOP OF CONCRETE DROP INLET, ENE QUADRANT OF LOMAS BLVD. NE AND WYOMING BLVD NE, CENTERED ON SAID DROP INLET. ELEVATION = 5364.009 FEET (NGVD 1929)		Contractor			
				No.	By			Work Started By	Date		
				1	JMA			02/04			
				Remarks				Field Accepted By		Date	
				No.	Date			JMA, INC.		9/04	
DESIGN				Date: 02/04		Drawings Corrected By		Date			
Designed By: JEP				Date: 02/04		MICRO-BLUM INFORMATION		Recorded By			
Drawn By: JEP				Date: 02/04							
Checked By: GCJ				Date: 02/04							

DRB # 1001984

BPLW
Architects & Engineers, Inc.

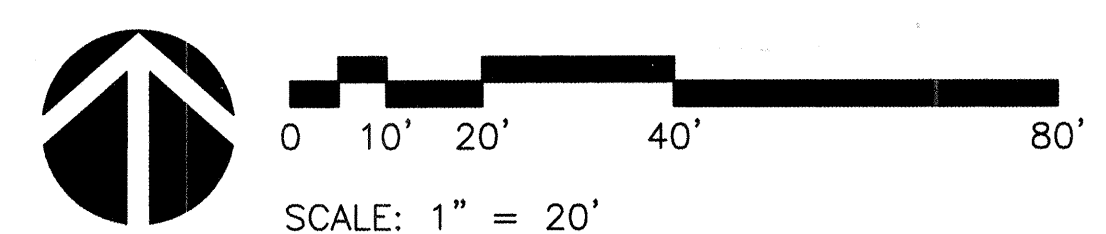
6200 Uptown Blvd. NE
Suite 400
Albuquerque, New Mexico 87110
(505) 881-2759

49 West First Street
Suite 100
Mesa, Arizona 85201
(602) 527-2759

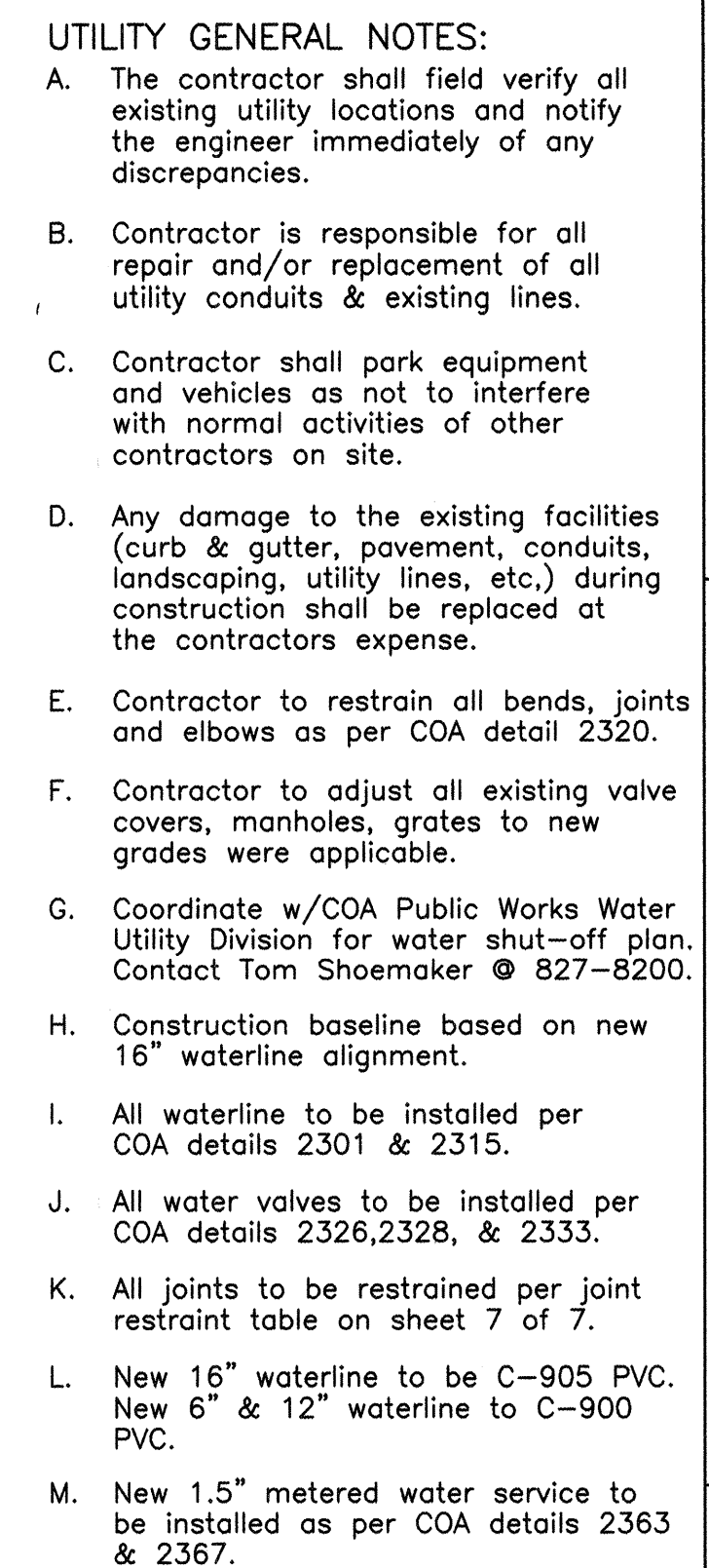
Designing to Shape the Future

RECORD DRAWING

DEMOLITION PLAN



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP													
TITLE: RICH FORD WATERLINE RELOCATION DEMOLITION PLAN													
Design Review Committee APR 24 2004 DESIGN REVIEW COMMITTEE	City Engineer Approved APR - 9 2004 CITY ENGINEER	Design Update Last	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">Mo./Day/Yr.</th> <th style="width: 50%;">Mo./Day/Yr.</th> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>	Mo./Day/Yr.	Mo./Day/Yr.								
Mo./Day/Yr.	Mo./Day/Yr.												
City Project No. 733481	Zone Map No. J-20-Z	Sheet 4	Of 7										



PH #	LINE TYPE	LINE SIZE	ELEV.
1	WATER	16"	68.62
2	WATER (ABANDON)	16"	69.82
3	WATER (ABANDON)	20"	69.28
4	WATER (WELL)	12"	68.03
5	WATER	16"	66.47
6	WATER (ABANDON)	16"	67.93
7	WATER (ABANDON)	20"	67.39
8	WATER (WELL)	12"	66.27
9	HP GAS	12"	68.89

DRB # 1001984

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(505) 881-2759
Designing to Shape

 First Street
Phoenix, Arizona 85201
480-924-2759
Signature _____

I, Guy C. Jackson of the firm BPLW Architects & Engineers, Inc., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the structure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, by survey information provided by Jeff Mortensen & Associates, Inc. NMPS number 11184 and by as-built information obtained and recorded by BPLW Architect's & Engineer's, Inc. and TLC Company during the duration of the project.

WATERLINE PROFILE
SCALE: 1" = 20' HORIZ.
1" = 4' VERT.

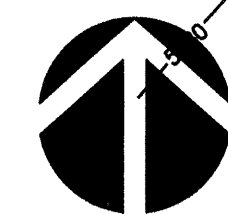
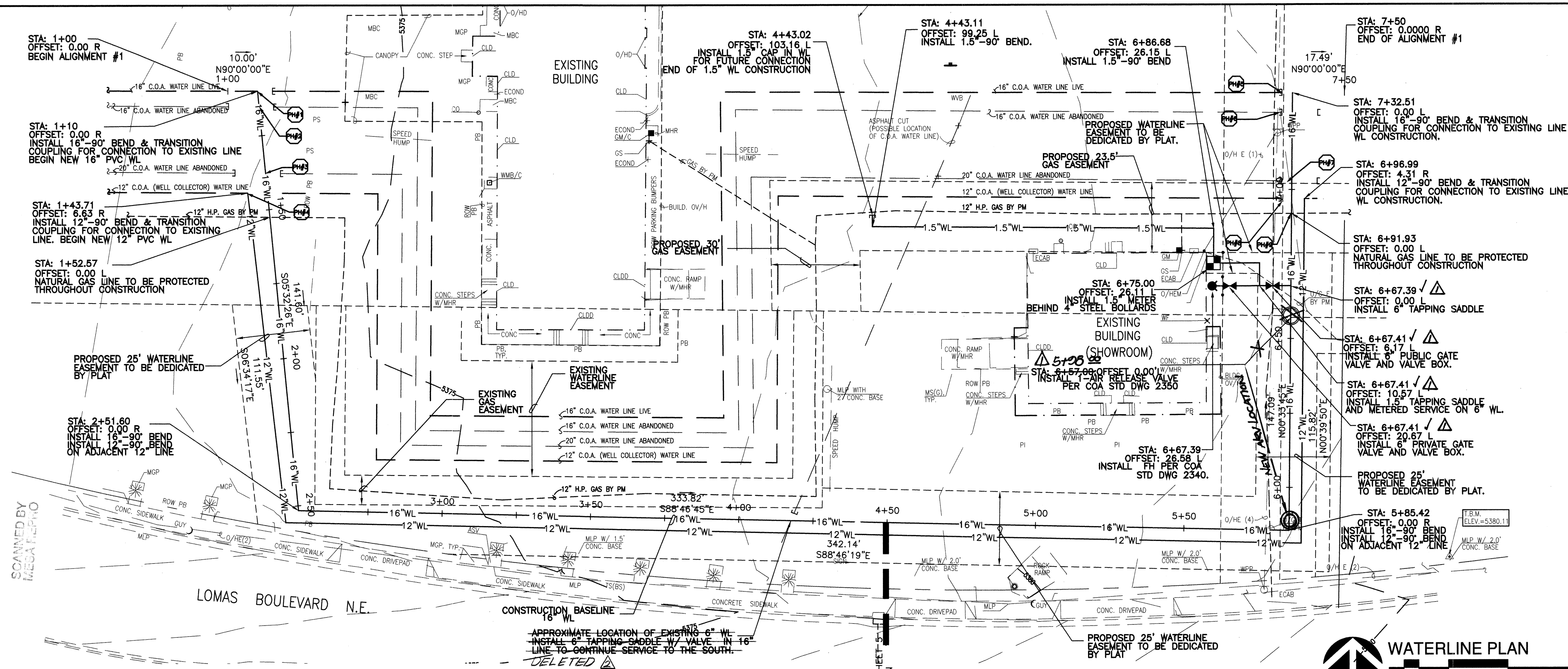
RECORD DRAWING

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: RICH FORD WATERLINE RELOCATION
WATERLINE PLAN & PROFILE 1+50 TO 4+50

Design Review Committee		City Engineer Approval		Last Design Update	
Mo./Day/Yr.		Mo./Day/Yr.		Mo./Day/Yr.	
MAY 24 2004		APR - 9 2004			
DESIGN REVIEW COMMITTEE		CITY ENGINEER			

City Project No.	733481	Zone Map No.	J-20-Z	Sheet	5	Of	7
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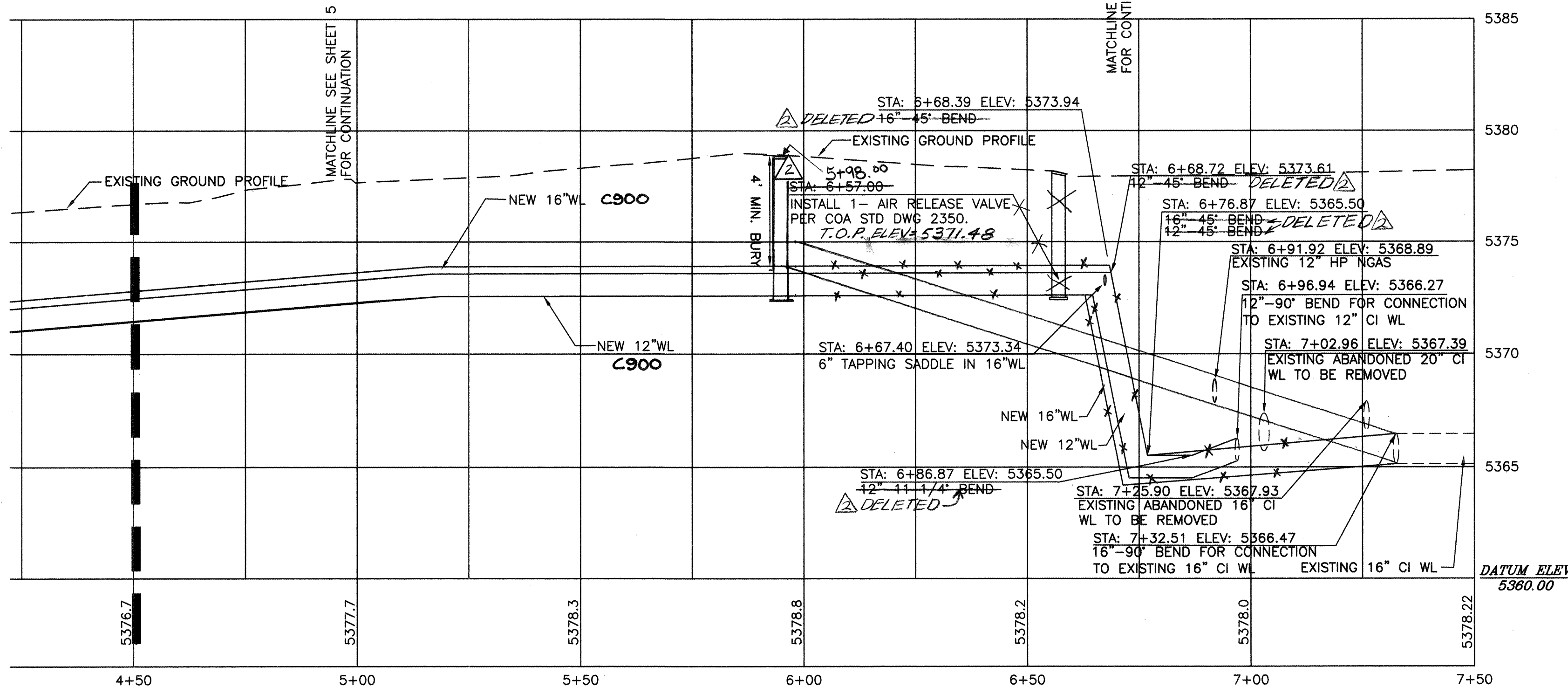
WATERLINE PLAN

0 10' 20' 40' 80'
SCALE: 1" = 20'

POTHOLE DATA TABLE: ○

PH #	LINE TYPE	LINE SIZE	ELEV.
1	WATER	16"	68.62
2	WATER (ABANDON)	16"	69.82
3	WATER (ABANDON)	20"	69.28
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7	WATER (ABANDON)	20"	67.39
8	WATER (WELL)	12"	66.27
9	HP GAS	12"	68.89

DRB # 1001984



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Guy C. Jackson of the firm BPLW Architects & Engineers, Inc., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, by survey information provided by Jeff Mortensen & Associates, Inc. NMPS number 11184 and by as-built information obtained and recorded by BPLW Architect's & Engineers, Inc. and TLC Company during the duration of the project.



WATERLINE PROFILE
SCALE: 1" = 20' HORIZ.
1" = 4' VERT.

RECORD DRAWING

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: RICH FORD WATERLINE RELOCATION WATERLINE PLAN & PROFILE STA 4+50 TO 7+50	
Design Review Committee APPROVE MAR 7 2004	City Engineer APPROVE APR 9 2004
City Project No. 733481	Zone-Map No. J-20-Z
Sheet 6	Of 7

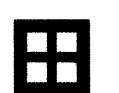
UTILITY GENERAL NOTES:

- The contractor shall field verify all existing utility locations and notify the engineer immediately of any discrepancies.
- Contractor is responsible for all repair and/or replacement of all utility conduits & existing lines.
- Contractor shall park equipment and vehicles as not to interfere with normal activities of other contractors on site.
- Any damage to the existing facilities (curb & gutter, pavement, conduits, landscaping, utility lines, etc.) during construction shall be replaced at the contractors expense.
- Contractor to restrain all bends, joints and elbows as per COA detail 2320.
- Contractor to adjust all existing valve covers, manholes, grates to new grades were applicable.
- Coordinate w/COA Public Works Water Utility Division for water shut-off plan. Contact Tom Shoemaker @ 827-8200.
- Construction baseline based on new 16" waterline alignment.
- All waterline to be installed per COA details 2301 & 2315.
- All water valves to be installed per COA details 2326, 2328, & 2333.
- All joints to be restrained per joint restraint table on sheet 7 of 7.
- New 16" waterline to be C-905 PVC. New 6" & 12" waterline to C-900 PVC.
- New 1.5" metered water service to be installed as per COA details 2363 & 2367.

AS BUILT INFORMATION	
Contractor	JMA, INC.
Drawn By	Jon Rutledge
Checked By	JMA, INC.
Recorded By	JMA, INC.
Date	4/9/04
BENCH MARKS	
Control	ACS 1.3/4" ALUMINUM DISK STAMPED "ACS BM 23-114"
Date	2/04
By	JMA
No.	1
SURVEY INFORMATION	
Field Notes	Return of the Intersection of Lomas Blvd. and 4th Street N.W.
Elevation	4954.89 FEET (NGVD 1929)

ENGINEER'S STAMP & SIGNATURE	
JMA	Survey As-Built
By	By
Date	Date
02/04	02/04
02/04	02/04
02/04	02/04

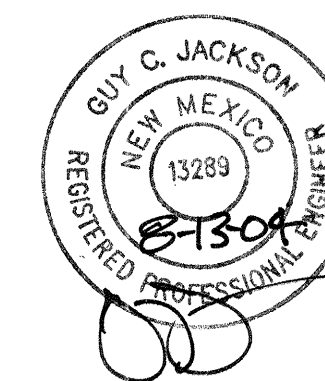
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Albuquerque, New Mexico 87110
(505) 881-2759
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ASPHALT

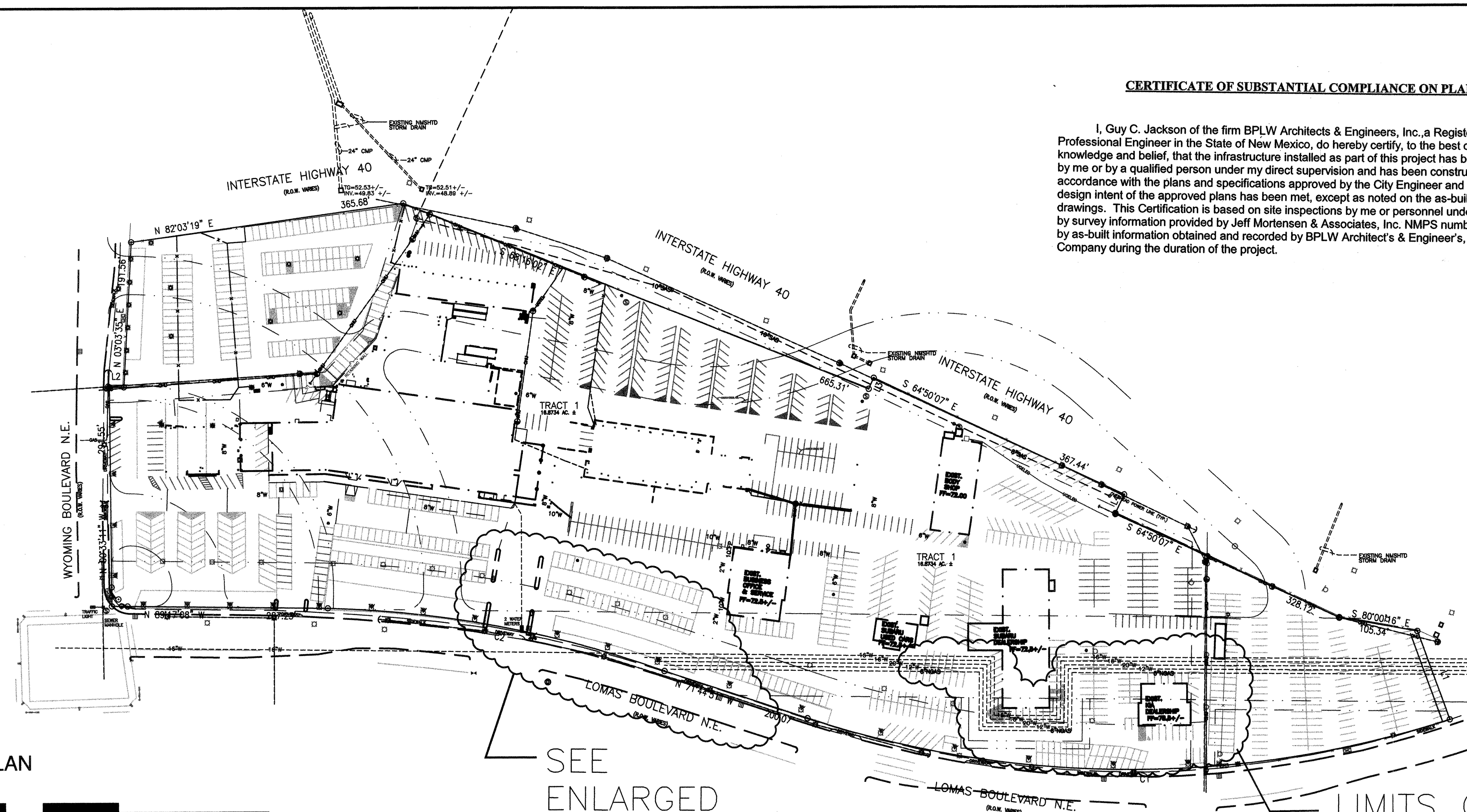
3-8-04

I, Guy C. Jackson of the firm BPLW Architects & Engineers, Inc., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed part of this project has been inspected by me or by a qualified person under my direct supervision and that it has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, by survey information provided by Jeff Mortensen & Associates, Inc. NMPS number 11184 and by as-built information obtained and recorded by BPLW Architect's & Engineer's, Inc. and TLC Company during the duration of the project.



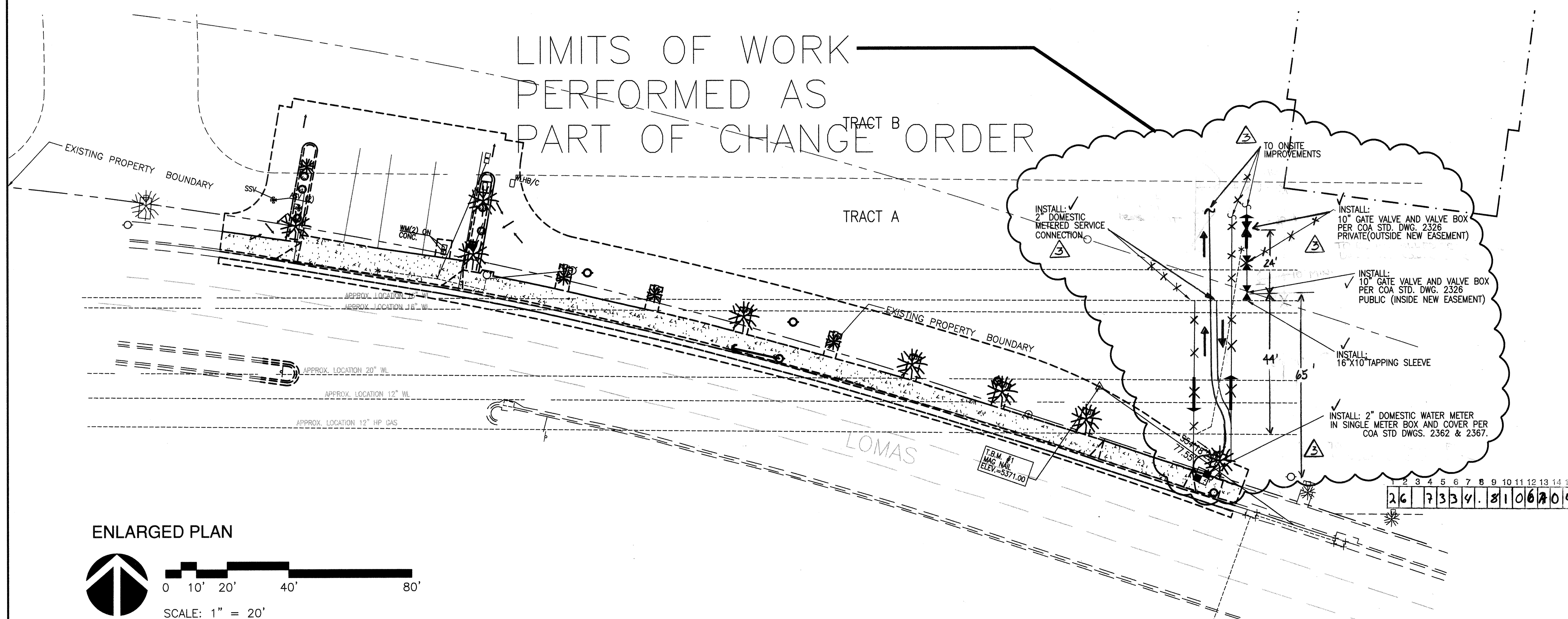
- A. The contractor shall field verify all existing utility locations and notify the engineer immediately of any discrepancies.
- B. Contractor is responsible for all repair and/or replacement of all utility conduits & existing lines.
- C. Contractor shall park equipment and vehicles so not to interfere with normal activities of other contractors on site.
- D. Any damage to the existing facilities (curb & gutter, pavement, conduits, landscaping, utility lines, etc.) during construction shall be replaced at the contractors expense.
- E. Topographical & boundary survey provided by J.E. Mortensen and Assoc., inc. BPLW is not responsible for any discrepancies in the surveys.
- F. Contractor to adjust all existing valve covers, manholes, grates to new grades were applicable.
- I. Surface features associated with underground utilities are shown on utility plan for clarity. See applicable utility plans for construction notes and details,

 ASPHALT REMOVAL LIMITS
 WATERLINE CAP



- SEE
ENLARGED
PLAN BELOW

LIMITS OF ORIGINAL WORK—ORDER WATERLINE RELOCATION



DRB # 1001984

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Designing to Shape the Future

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: RICH FORD WATERLINE RELOCATION
DEMOLITION PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.			
City Project No.	733481	Zone Map No.	11-20-7	Sheet	6a	Of	7

SCANNED BY
MEGAREPRO

REDUCER

Restraining either L_s or L_l length	(L_s) L small	or	(L_l) L large
Size	Unobstructed Straight Run Length, Feet Restrained		Large Side Restrained Length, Feet
6" x 4"	42		28
8" x 4"	39		30
8" x 6"	39		30
10" x 6"	87		53
10" x 8"	36		29
12" x 8"	81		54
12" x 10"	36		30
14" x 10"	78		55

VERTICAL OFFSETS

Additional Design Parameters Shallow end depth = 3.0' Deep end depth = 6.0'				
Line Size	22" Bend		45" Bend	
	Restrained Length			
	Deep end L _s , Feet	Shallow end L _{HS} , Feet	Deep end L _s , Feet	Shallow end L _{HS} , Feet
6"	3	11	5	23
8"	3	14	7	30
10"	4	17	8	36
12"	5	20	10	42
14"	5	23	11	48

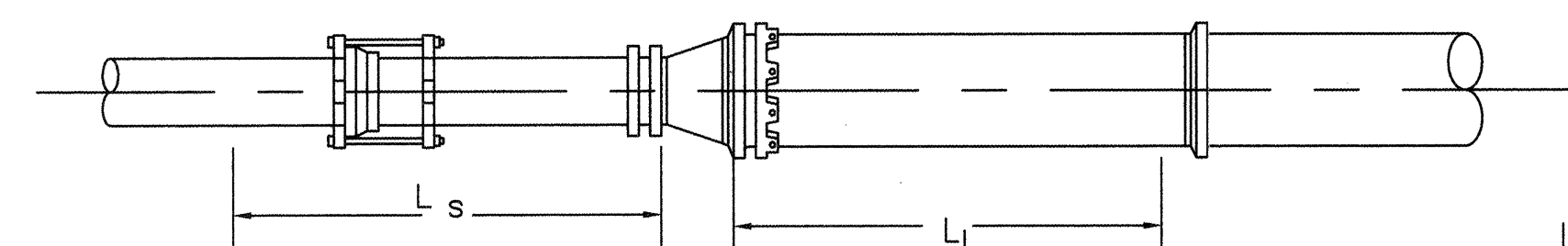
TEES

Line Size	Branch Size 6"				Branch Size 8"				Branch Size 10"				Branch Size 12"			
	$L_r=5'$	$L_r=10'$	$L_r=15'$	$L_r=20'$	$L=5'$	$L_r=10'$	$L_r=15'$	$L_r=20'$	$L=5'$	$L_r=10'$	$L_r=15'$	$L_r=20'$	$L=5'$	$L_r=10'$	$L_r=15'$	$L_r=20'$
6"	36	18	FJO	FJO	58	44	30	16	75	64	53	41	-	-	-	-
8"	30	6	FJO	FJO	53	35	16	FJO	71	56	42	27	-	-	-	-
10"	24	FJO	FJO	FJO	48	24	1	FJO	67	48	29	10	86	70	54	38
12"	17	FJO	FJO	FJO	43	14	FJO	FJO	63	40	17	FJO	83	63	44	25
14"	FJO	FJO	FJO	FJO	21	FJO	FJO	FJO	39	12	FJO	FJO	56	33	11	FJO

FJO: Restraint required at Fitting Joint Only

HORIZONTAL BENDS

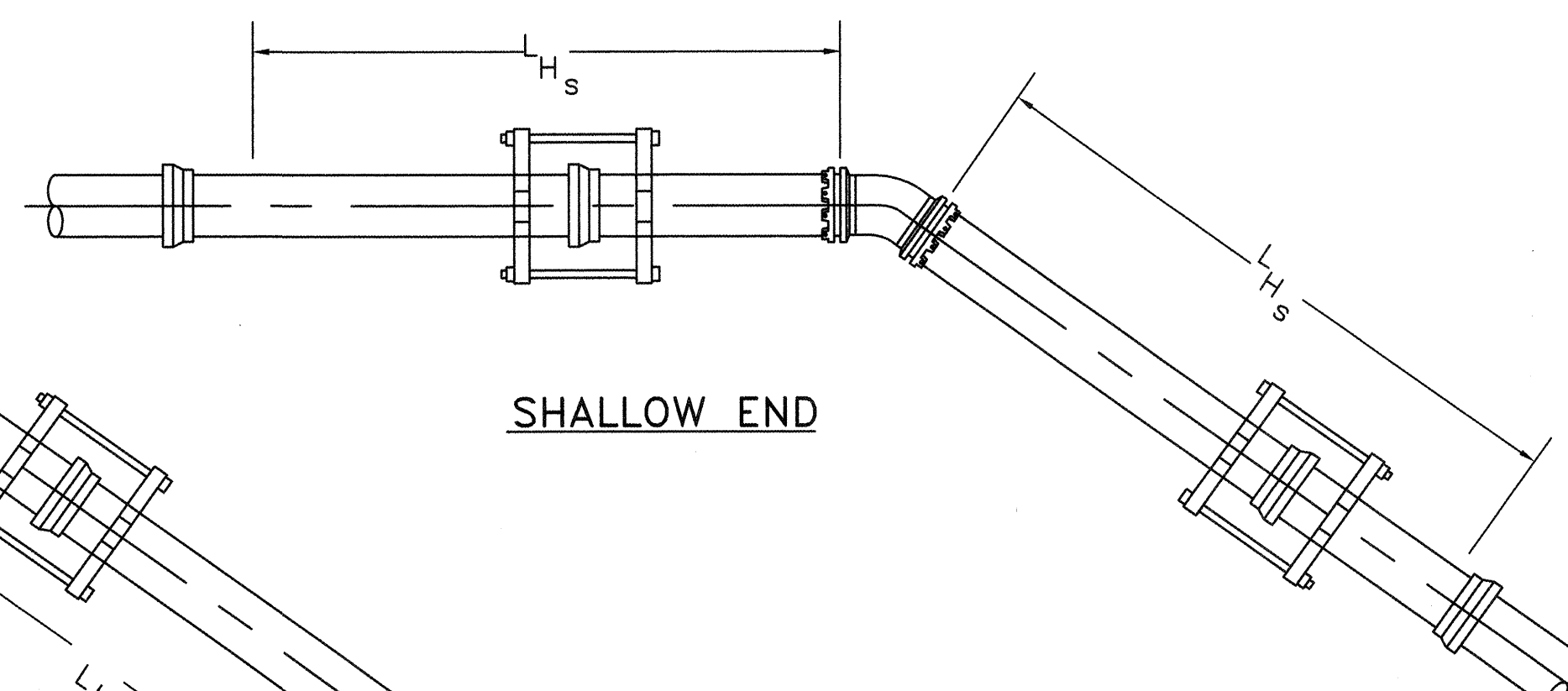
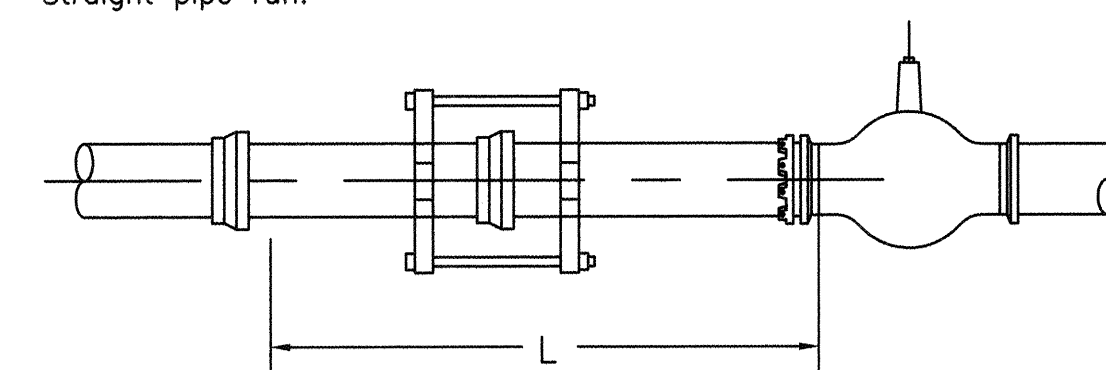
Line Size	Bend Angle			
	11'	22'	45'	90'
6"	2	5	10	25
8"	3	6	13	32
10"	4	8	16	38
12"	4	9	19	45
14"	5	10	21	51



GATE VALVES

Line Size	Restrained Length L , Both Sides of Valve, Feet
4"	39
6"	55
8"	72
10"	86
12"	102
14"	116

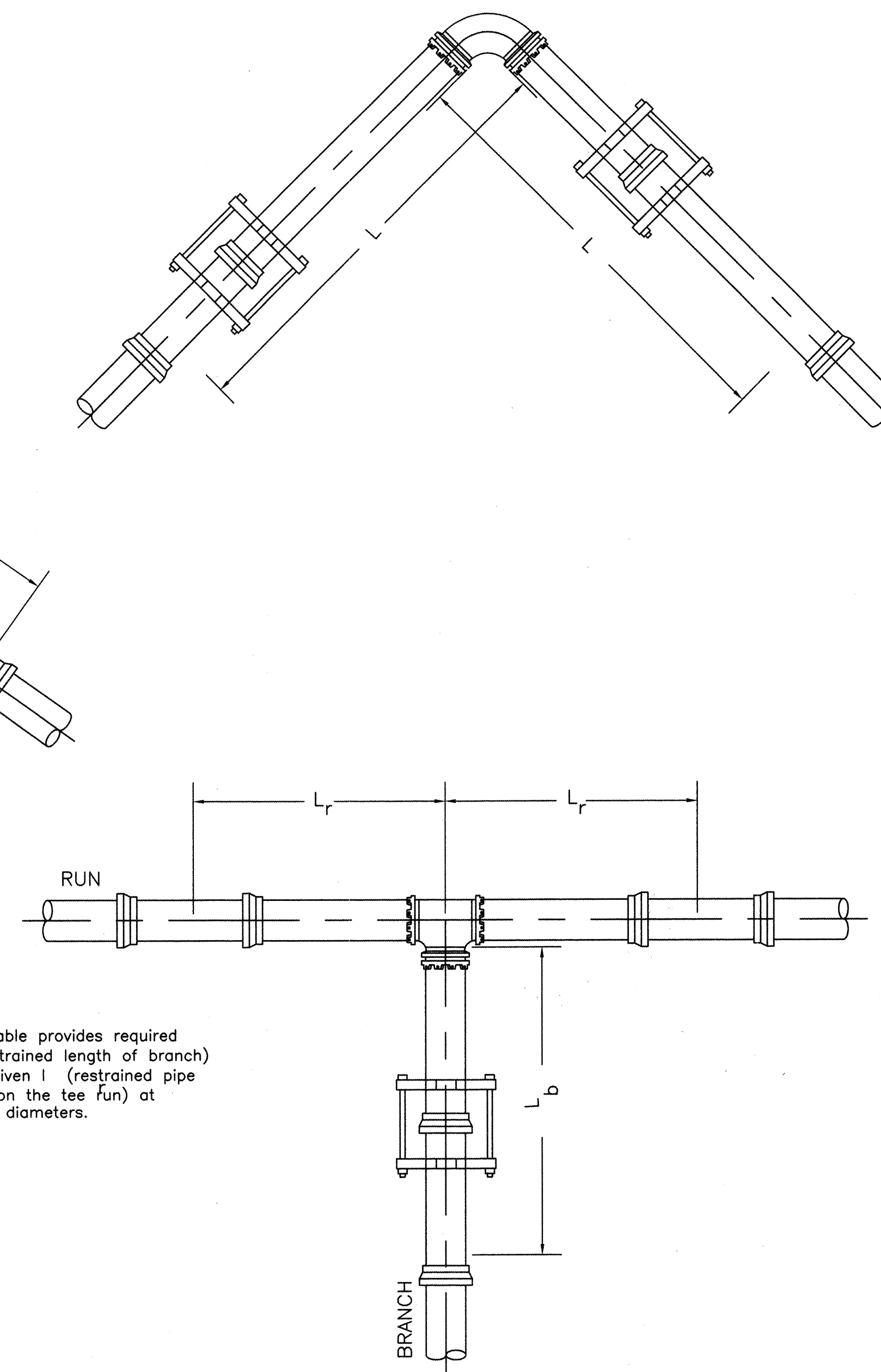
These lengths may be used where
Enough new pipe exists to install
The restraint joints along a
Straight pipe run.



SHALLOW END

DEEP END

THRUST RESTRAINT JOINT LENGTHS NOT TO SCALE



Note: table provides required
 L_b (restrained length of branch)
for a given L (restrained pipe
length on the tee run) at
various diameters.

THRUST RESTRAINT GENERAL NOTES

1. Restrained pipe lengths for pvc using eba iron thrust restraining system.
2. Lengths may overlap to determine greatest restraint length in any one direction.
3. Contractor shall minimize numbers of restrained joints required by using 20' long sections of pipe within the restrained length where possible. divide length by 20 and truncate decimal portion of number to determine the number of required restrained joints.
4. Special consideration may be needed to meet certain field conditions.
5. Restraint lengths may extend into existing water mains, requiring restrained fittings to be placed at existing waterline joints for the length specified in the tables on this sheet.

Design assumptions:
Safety factor: 1.5
Pressure: 150 psi
Soil type: gm & sm - silty gravels and silty sands
Pipe: pvc
Trench type: 3 (pipe bedded in 4 inches minimum loose soil. backfill lightly consolidated to top of the pipe.)

RECORD DRAWING

JOINT RESTRAINTS

DRB # 1001984

BPLW

Architects & Engineers, Inc.

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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: RICH FORD WATERLINE RELOCATION JOINT RESTRAINTS	
Design/Review/Committee	City Engineer Approval
MAN 2 4 2004	APR - 8 2004
DESIGN REVIEW COMMITTEE	CITY ENGINEER
City Project No. 733481	Zone Map No. J-20-Z
Sheet 7	Of 7