

6" WATER MAIN EXTENSION IN LOS SANTOS ROAD, N.W. (9000 RIO GRANDE BOULEVARD)

JANUARY 2001

INDEX TO DRAWINGS

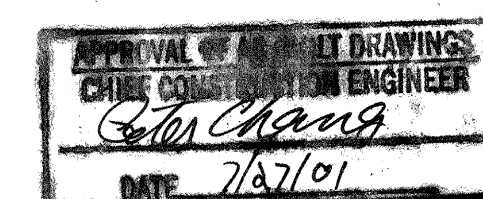
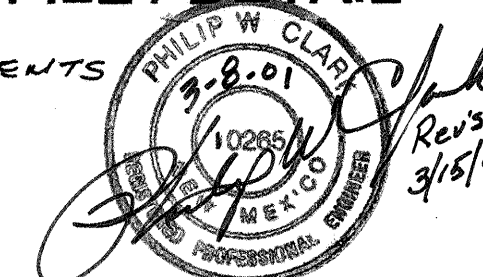
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5 of 5	VACUUM SEWER DETAILS

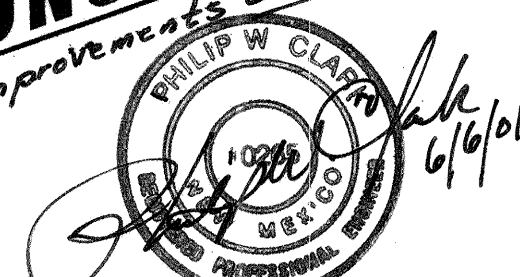
DESCRIPTION

TITLE PAGE
PLAT
WATER MAIN PLAN AND PROFILE
VACUUM SEWER PLAN AND PROFILE / DETAIL

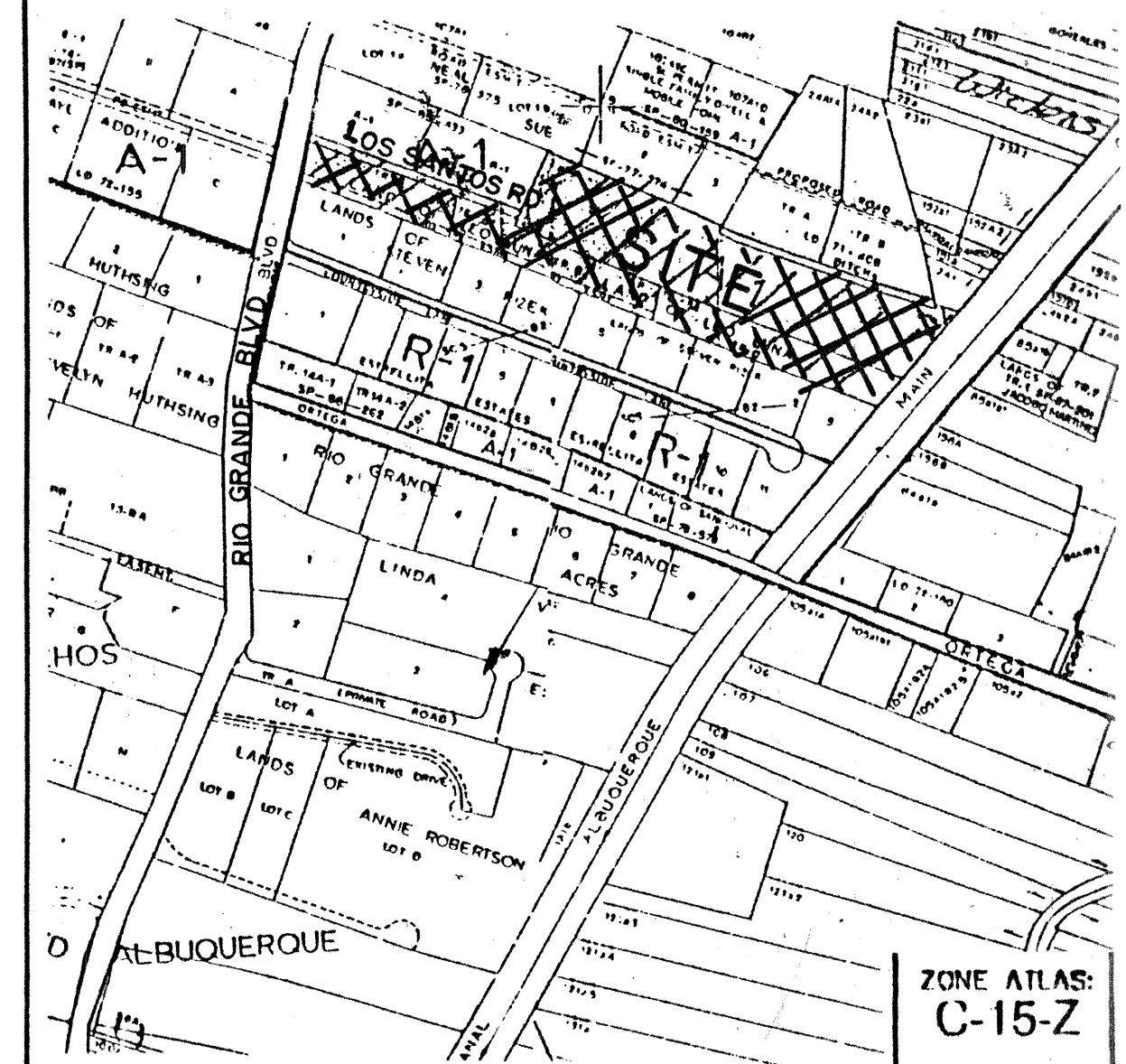
C. Clark Consulting Engineers (SEWER IMPROVEMENTS ONLY)
19 Ryan Road
Edgewood, New Mexico 87015
Tel: (505) 281-2444 Fax: (505) 281-2444



AS-CONSTRUCTED
Waterline Improvements ONLY. SEE Sheet 3/5.



MARVIN R. KORTUM, P.E.
Civil Engineer
NM PE 6519
1605 Speakman Drive, S.E.
Albuquerque, New Mexico 87123
(505) 299-0774

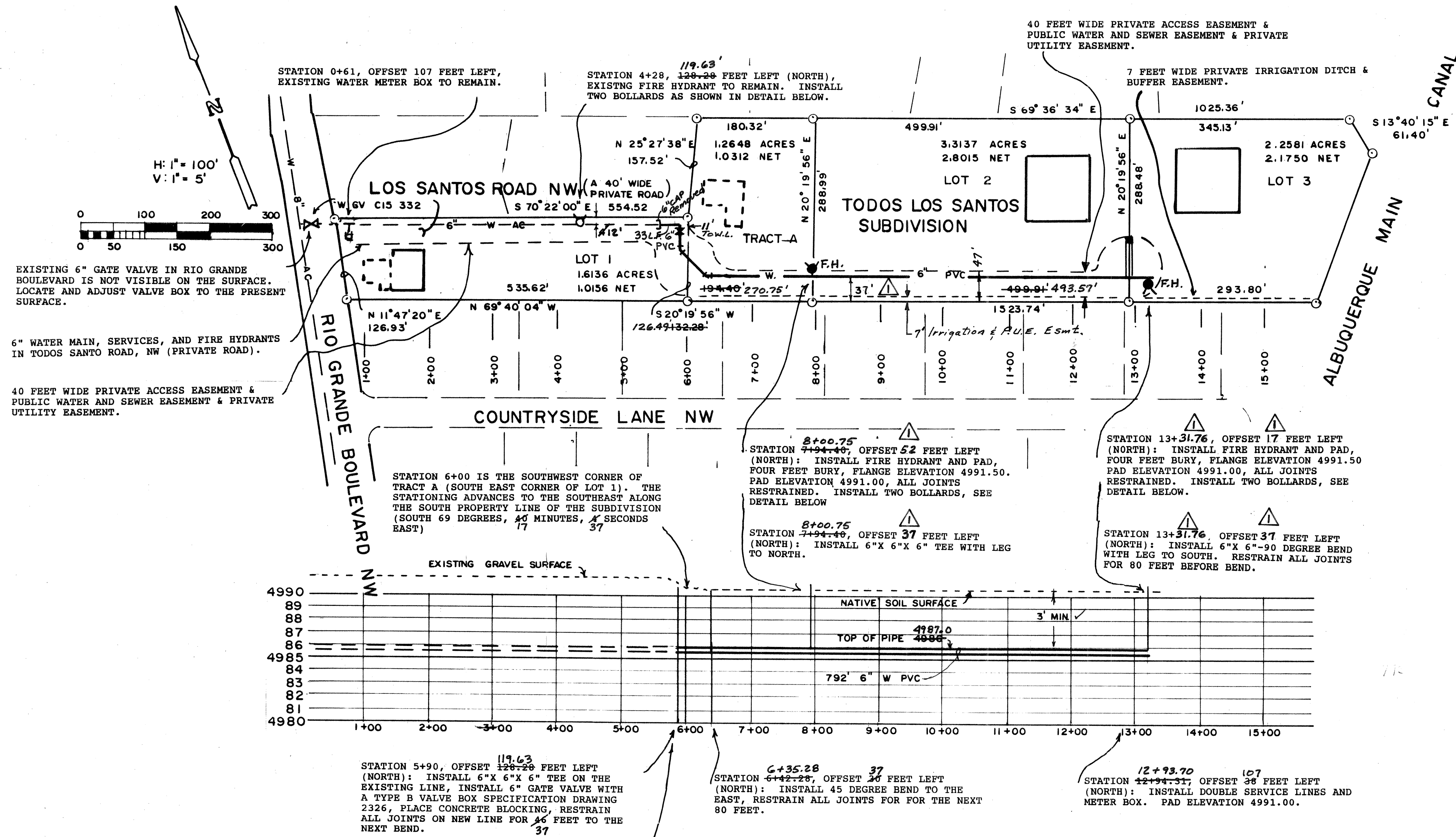


NOTICE TO CONTRACTORS

- ALL 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 AMENDED THROUGH AMENDMENT 6.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE-CALL SYSTEMS, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEY SECTION. 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 GENERAL CONDITIONS OF STANDARD SPECIFICATIONS.
- FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATING DIVISION, A DETAILED CONSTRUCTION SCHEDULE. TWO (2) DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATING DIVISION. CONTRACTOR SHALL NOTIFY THE BARRICADING ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATION.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY THE CONTRACTOR TO LOCATION AS EXISTED OR INDICATED BY THIS PLAN SET.

- | | |
|-------------------------------------|---|
| ☒ | 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 CITY ENGINEER. |
| ☒ | SIDEWALKS AND WHEEL CHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED. |
| ☒ | 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. |
| ☒ | ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE. |

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP, SIGNATURE		APPROVALS		ENGINEER		DATE	
		DRC Chairman		[Signature]		2-19-01	
		Transportation		[Signature]		2-18-01	
		Water/Wastewater		[Signature]		3-16-01	
		Hydrology		[Signature]		2-13-01	
		Parks		[Signature]		2-13-01	
CONSTR. Mngmnt.		N/A		[Signature]		2-19-01	
CONST. COORD.		N/A		[Signature]		2-19-01	
City Project No.		657781		APPROVED FOR CONSTRUCTION		[Signature]	
Sheet		1		Of		3	



EXISTING 6" GATE VALVE IN RIO GRANDE BOULEVARD IS NOT VISIBLE ON THE SURFACE. LOCATE AND ADJUST VALVE BOX TO THE PRESENT SURFACE.

6" WATER MAIN, SERVICES, AND FIRE HYDRANTS IN TODOS SANTO ROAD, NW (PRIVATE ROAD).

40 FEET WIDE PRIVATE ACCESS EASEMENT & PUBLIC WATER AND SEWER EASEMENT & PRIVATE UTILITY EASEMENT.

CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS PROJECTS REFERENCES:

DRAWING #	TITLE
2301	WATER LINE CONNECTION DETAILS
2315	PIPE TRENCH TERMINOLOGY
2320	CONCRETE BLOCKING DESIGN
2326	VALVE BOX TYPE "B"
2328	RING AND COVER FOR VALVE BOX
2332	VALVE BOX ADJUSTMENT COLLAR AND INSERT
2333	WATER VALVE ANCHORAGE
2340	FIRE HYDRANT INSTALLATION
2360	METER BOX LOCATION
2361	TYPICAL METER BOX INSTALLATIONS
2362	METERED SERVICE LINE INSTALLATIONS
2366	DOUBLE METER BOX FOR 3/4" AND 1" METERS
2369	HEAVYWEIGHT METER BOX COVER AND LID

WATER MAIN SHUT-OFF REQUIREMENTS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR TIMING AND COORDINATION OF THE WATER MAIN SHUT-OFF REQUIREMENTS TO CONSTRUCT THIS PROJECT.

AT LEAST FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CONTACT THE PWD/WATER SYSTEMS DIVISION (857-8200) TO START THIS SHUT-OFF PLAN.

THE VALVES LISTED BELOW, SHOWN ON THE PLAN DRAWING, AND LOCATED AT THE INTERSECTION OF TODOS SANTOS ROAD AND RIO GRANDE BOULEVARD, MUST BE CLOSED PRIOR TO A NON-PRESSURE CONNECTION: (VALVES ARE TO BE OPERATED ONLY BY CITY PERSONNEL)

C-15 332

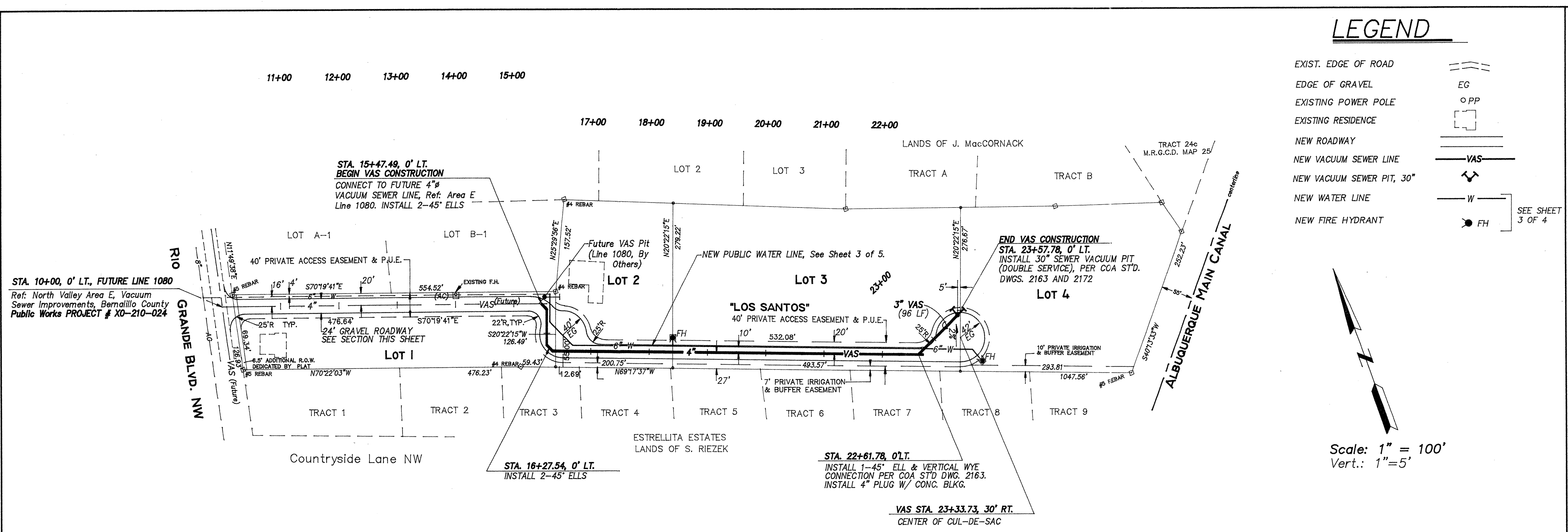
AS-CONSTRUCTED

I, PHILIP W. CLARK, PROFESSIONAL ENGINEER, REGISTERED IN ACCORDANCE WITH THE LAWS IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE WATER LINE IMPROVEMENTS SHOWN ON THIS PLAN ARE IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLAN.

PHILIP W. CLARK, P.E. #10265

MARVIN R. KORTUM, P.E.
Civil Engineer
NM PE 6519
1605 Speakman Drive, S.E.
Albuquerque, New Mexico 87123
(505) 299-0774

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: TODOS LOS SANTOS SUBDIVISION 6" WATER MAIN EXTENSION (9000 RIO GRANDE BOULEVARD)			
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED	APPROVED		
City Project No.	Zone Map No.	Sheet	Of
6577.81	C-15	3	5



LEGEND

- EXIST. EDGE OF ROAD
- EDGE OF GRAVEL
- EXISTING POWER POLE
- EXISTING RESIDENCE
- NEW ROADWAY
- NEW VACUUM SEWER LINE
- NEW VACUUM SEWER PIT, 30"
- NEW WATER LINE
- NEW FIRE HYDRANT

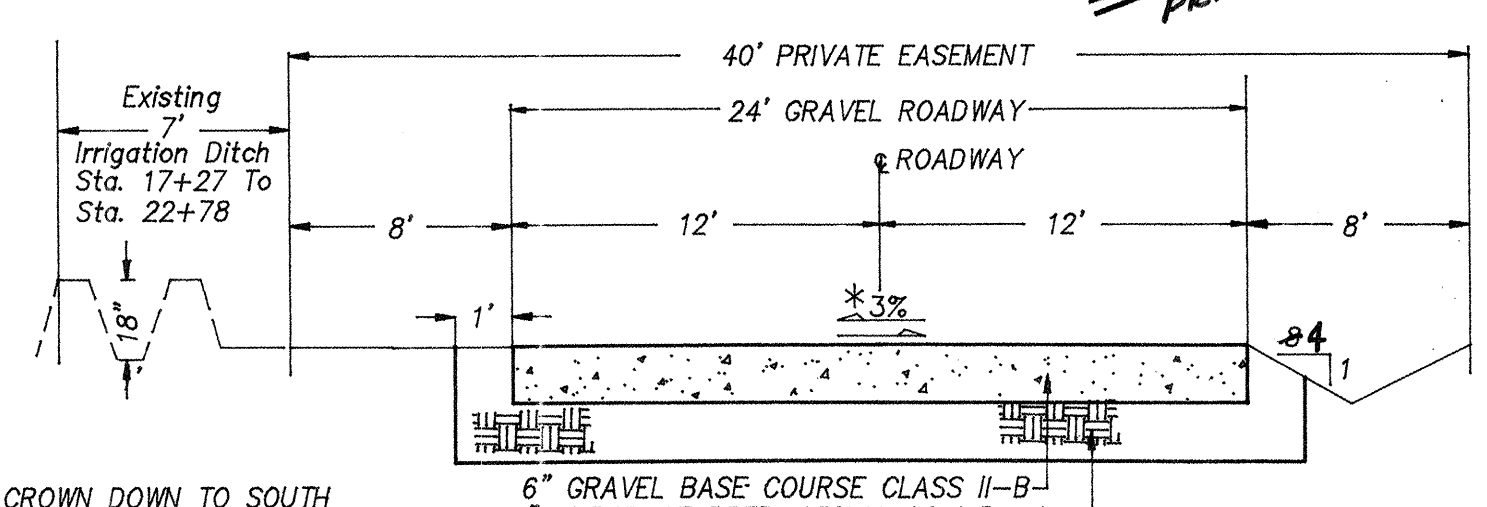
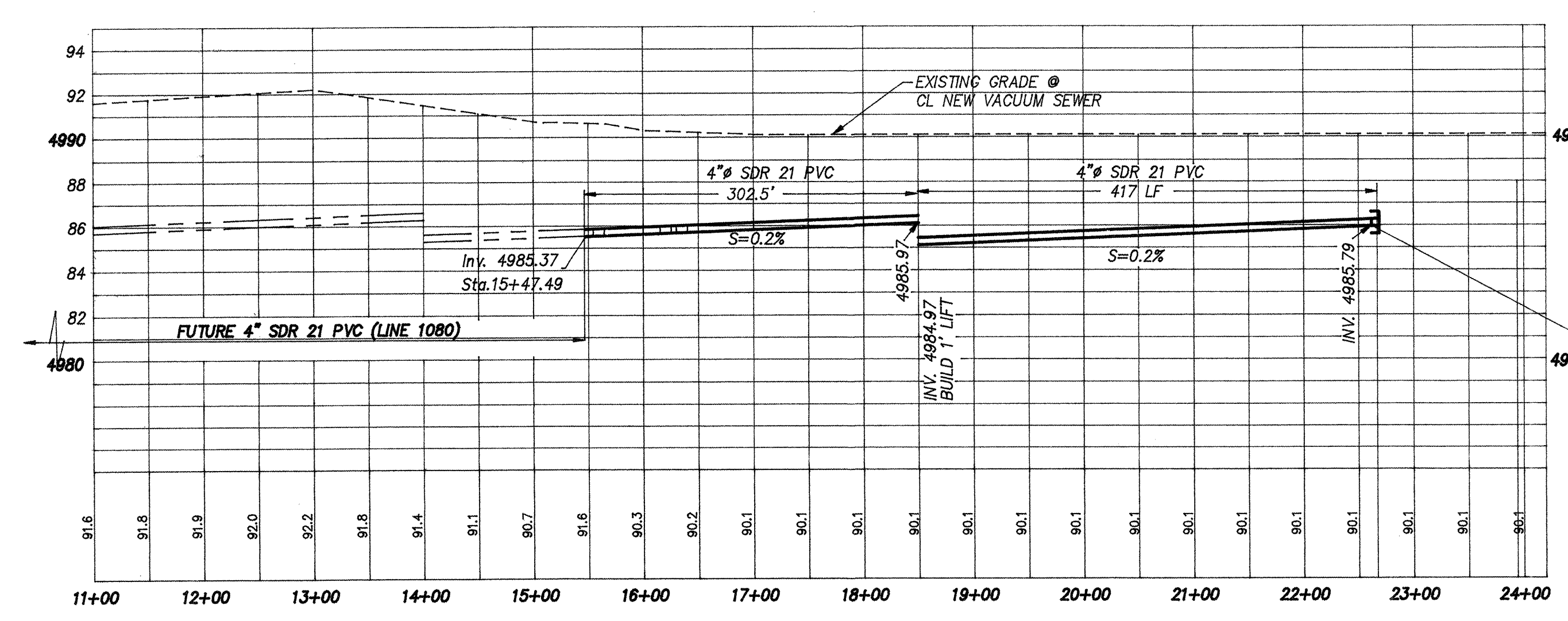
Scale: 1" = 100'
Vert.: 1"=5'

NOTES

- ALL STATIONING IS BASED ON THE CENTER LINE ALIGNMENT OF NEW VACUUM SEWER, AND CORRESPONDS TO THE NORTH VALLEY AREA E, VACUUM SEWER IMPROVEMENTS PROJECT.
- ALL PUBLIC VACUUM SEWER LINE INSTALLATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARD DRAWINGS: #2162, #2163, #2172, 2173...AND STANDARD SPEC. SECTION 925, UPDATED 12/15/2001.
- ALL CITY UTILITIES AND SERVICES SHALL BE INSTALLED AND APPROVED PRIOR TO COMMENCING BACKFILL.

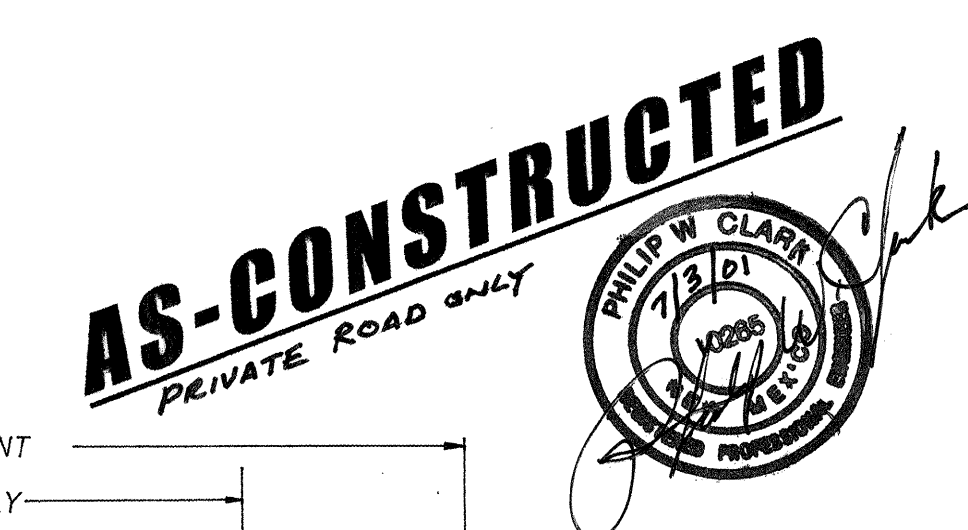
"LOS SANTOS"

For Information only-To be built with County project XD-210-024



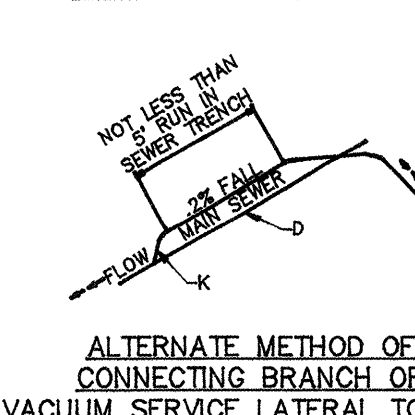
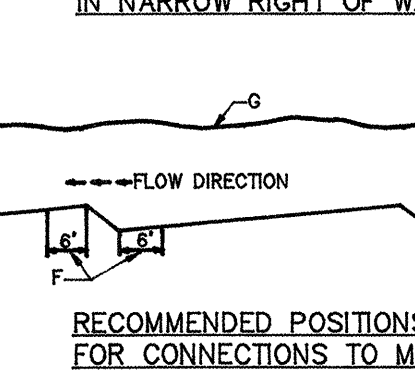
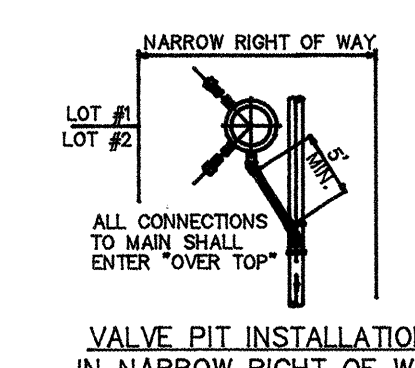
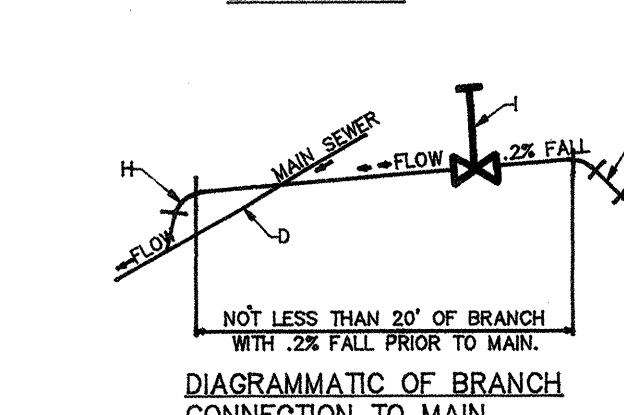
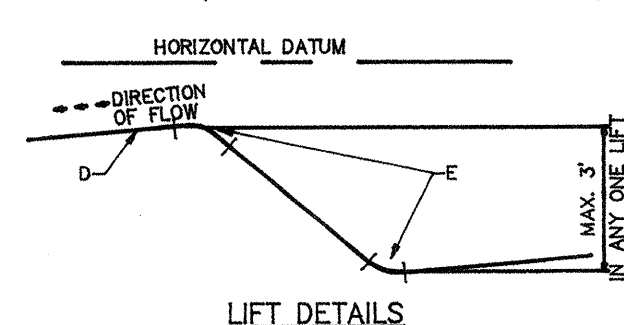
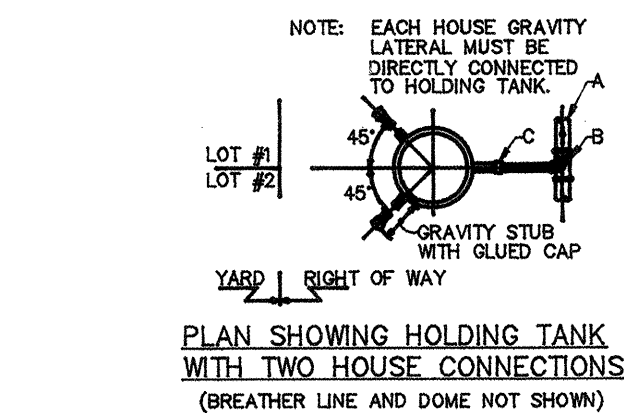
* SLOPE TRANSVERSE CROWN DOWN TO SOUTH ALONG LOT 1 FRONTAGE
SLOPE TRANSVERSE CROWN DOWN TO NORTH ALONG LOTS 2-4 FRONTAGE

TYPICAL STREET SECTION
NO SCALE
SIMILAR TO COUNTY STD 2406A

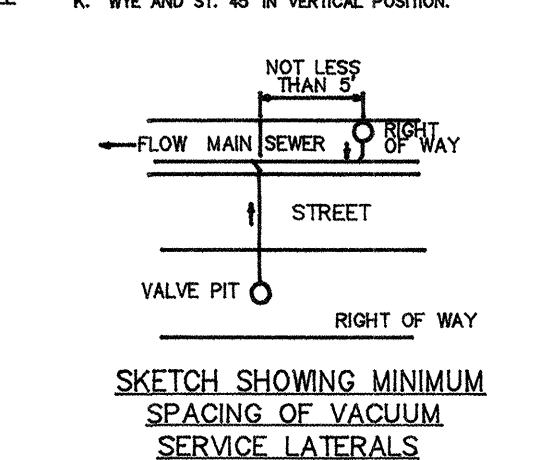


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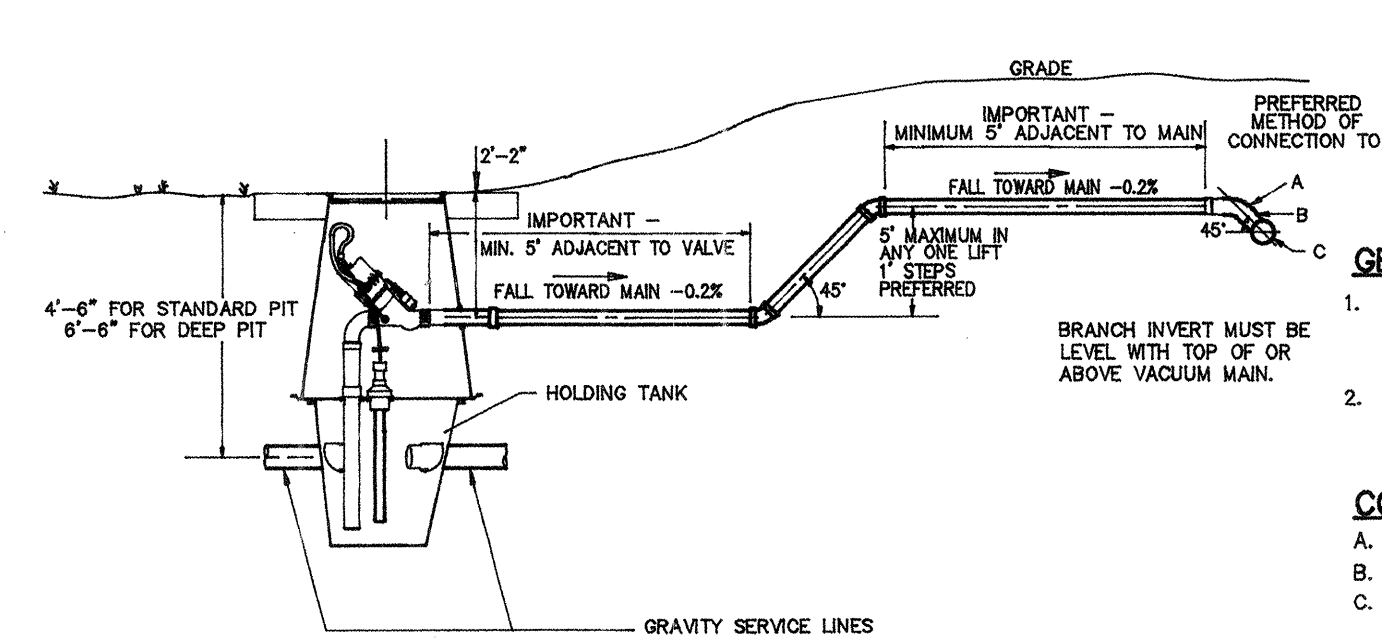
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
PUBLIC VACUUM SEWER LINE EXTENSION OF LINE 1080 PLAN & PROFILE - LOS SANTOS ROAD	
Design Review Committee	City Engineer Approval
Info	only
City Project No. 6577.81	Zone Map No. C-15
SHEET 4 OF 5	



- GENERAL NOTES:**
- ONLY HOMES AND APARTMENTS WHOSE LOWER FLOOR ELEVATION ARE THE SAME SHOULD BE CONNECTED TO A COMMON VACUUM VALVE PIT INSTALLATION. WITH MULTIPLE FLOOR APARTMENTS EACH FLOOR SHOULD BE SERVED BY ITS OWN VACUUM VALVE PIT INSTALLATION.
 - NOT LESS THAN 20' BETWEEN SUCCESSIVE LIFTS.
 - LOWER PORTION OF VALVE PIT IS A WASTE HOLDING TANK.
- CONSTRUCTION NOTES:**
- 4", 6", 8" OR 10" VACUUM SEWER.
 - 10"x10"x3" OR 8"x8"x3" OR 6"x6"x3" D.W.V. WYE.
 - 3" SCHED. 40 PVC.
 - SLOPE: CONSULT DESIGN MANUAL.
 - LONG TURN 45° BENDS IN TWO POSITIONS.
 - DO NOT MAKE ANY INLET CONNECTIONS IN THIS AREA.
 - GRADE.
 - ELL 90° AND WYE, IMPORTANT: WYE SHALL BE IN VERTICAL POSITION.
 - DIVISION VALVE.
 - LIFT.
 - WYE AND ST. 45° IN VERTICAL POSITION.



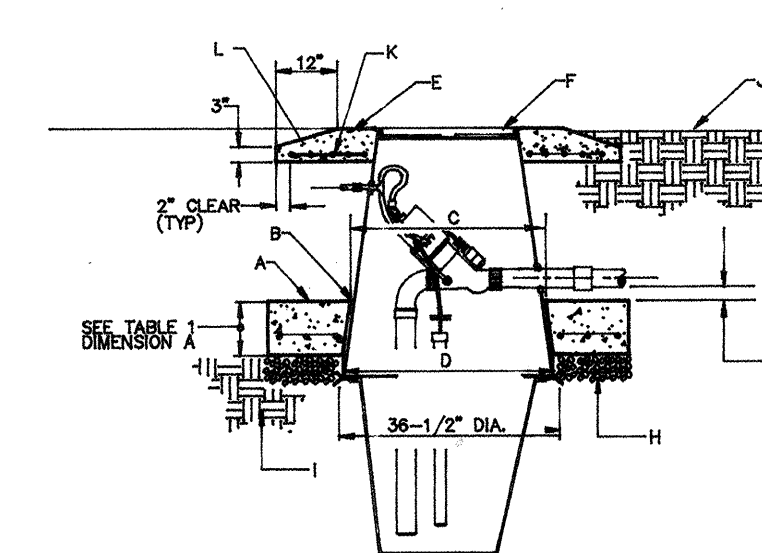
CITY OF ALBUQUERQUE
VACUUM SEWER
STANDARD DETAILS
DWG. 2162 DEC. 1993



- GENERAL NOTES:**
- GRAVITY LINES - IN ALL INSTALLATIONS, SEWAGE SHALL FLOW BY GRAVITY TO THE HOLDING TANK.
 - INSTALL GRAVITY LINES IN ACCORDANCE WITH LOCAL CODES.
- CONSTRUCTION NOTES:**
- 45° ELL.
 - WYE IN VERTICAL POSITION.
 - VACUUM SEWER MAIN.

CITY OF ALBUQUERQUE
VACUUM SEWER
STANDARD DETAILS
DWG. 2163 DEC. 1993

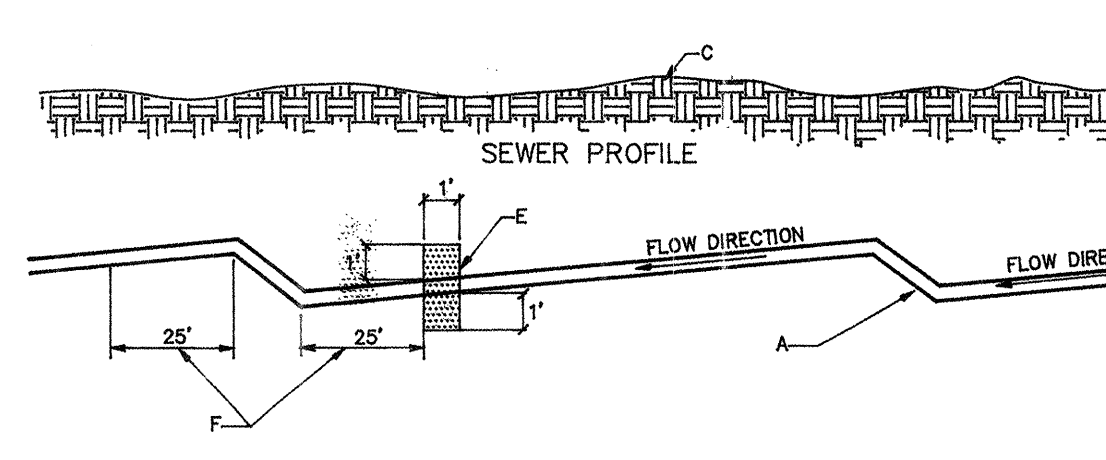
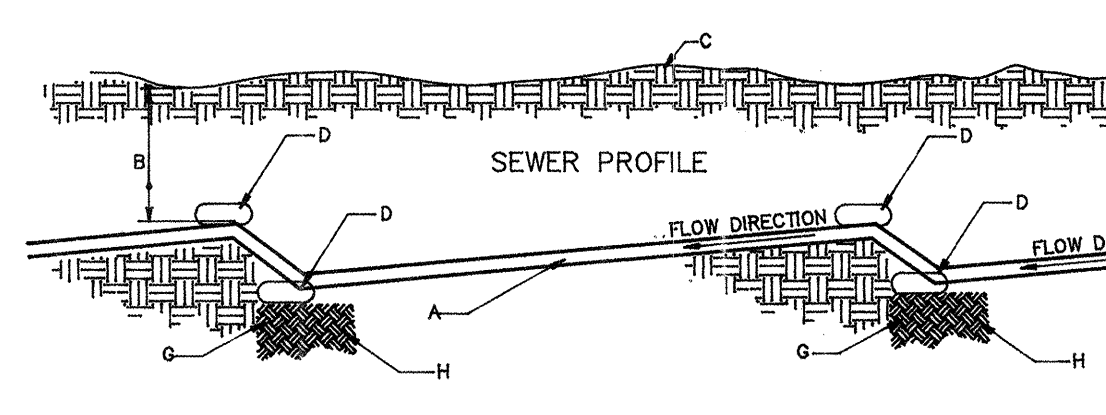
For Information Only- To be built with County project #XD-210-024



DESCRIPTION	QTY.
30" SUMP PACKAGE	1
34" SUMP PACKAGE	1

- GENERAL NOTES:**
- ALL COMPACTION OF SUBGRADE AND BACKFILL FOR INSTALLATION OF VACUUM VALVE PIT TO BE 95% OF MAXIMUM DRY DENSITY PER ASTM D 1557.
 - AVOID EXCESSIVE EXPOSURE TO SUNLIGHT OF OPEN VACUUM VALVE PIT. CLOSE & COMPLETE WITHIN 3 DAYS TO INSURE INTEGRITY OF RUBBER O-RING.
 - SEE STANDARD DRAWING 2165 FOR ADDITIONAL DETAILS.
- CONSTRUCTION NOTES:**
- 6" SQUARE CONC. ANTI-FLOATATION COLLAR WITH 2 REBAR # 4 E.W. 3" FROM EDGE OF CONC. SEE TABLE 1 FOR THICKNESS.
 - CLEARANCE BETWEEN CONCRETE COLLAR AND FIBERGLASS PIT.
 - 35" DIA. OPENING @ TOP OF SLAB.
 - 35-1/2" DIA. OPENING @ BOTTOM OF SLAB.
 - 5" DIA. x 6" THICK OCTAGONAL CONC. PAD AROUND MH OPENING TO MATCH FINISH GRADE W/TAPER AS SHOWN.
 - CAST IRON MANHOLE FRAME AND COVER, SEE C.O.A. STD. DWG. 2165.
 - 1" CLEARANCE TO BOTTOM OF 3" LATERAL.
 - 3" THICK 3/4" GRAVEL.
 - COMPACTED SUBGRADE.
 - FINISH GRADE.
 - 6" x 6" x NO. 6 GA. WIRE MESH.
 - IN UNPAVED AREAS SET FRAME 1" ABOVE GRADE & SLOPE TOP OF PAD DOWN 1" BELOW GRADE.

CITY OF ALBUQUERQUE
VACUUM SEWER
VACUUM VALVE PIT TYPE "B"
FOR USE IN UNPAVED AREAS
DWG. 2172 DEC. 1993



- GENERAL NOTES:**
- BENTONITE COLLAR TO BE INSTALLED EVERY 250' ALONG VACUUM SEWER RUN.
 - BENTONITE SEEPAGE COLLARS ARE FOR VACUUM SEWER MAINS AND FOREBAYS INSTALLED IN UNPAVED IRRIGATION LATERAL RIGHTS-OF-WAY OR AS SHOWN ON CONSTRUCTION DRAWINGS.

- CONSTRUCTION NOTES:**
- 4", 6", 8" OR 10" VACUUM SEWER.
 - DEPTH PER PLANS.
 - FINISH GRADE.
 - 80 LB BAG OF RED-MIX CONCRETE WITH CUT ON TOP.
 - BENTONITE SEEPAGE COLLAR; SEE SPECS. BELOW.
 - MIN. DISTANCE FROM 45° BENDS.
 - UNDISTURBED EARTH.
 - 95% COMPACTED SUBGRADE.

BENTONITE SPECIFICATIONS:

HYDROGEL BENTONITE BY WYC-BEN, INC. OR APPROVED EQUAL	
BARREL YIELD	92
VISCOSITY READING AT 600 R.P.M.	38 +/- 5
WATER LOSS	13.5 +/- 1
3" THRU 200 MESH SCREEN	80 +/- 2
NET SCREEN ANALYSIS RESIDUE ON U.S. SIEVE NO. 200	3.0 +/- .5
% MOISTURE	7 +/- 1
pH	8.1 +/- .1
GEL STRENGTH-10SEC.	18 +/- 2
GEL STRENGTH-10 MIN.	14 +/- 2
PLASTIC VISCOSITY	16 +/- 4
YIELD POINT, LB/200 FT.	

MIX 80 LBS. PER 100 GALLONS OF MAKE-UP WATER.

CITY OF ALBUQUERQUE
VACUUM SEWER
BLOCKING AND SEEPAGE COLLAR DETAIL
DWG. 2173 DEC. 1993

Clark Consulting Engineers
18 First Street
Edgewood, New Mexico 87015
Tel: (505) 281-2444 Fax: (505) 281-2444

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PUBLIC VACUUM SEWER LINE EXTENSION OF LINE 1080 LOS SANTOS ROAD --- DETAILS			
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City Project No. 6577.81	Zone Map No. C-15	SHEET 5	OF 5