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 28-7487-81-2012

CITY OF ALBUQUERQUE, NEW MEXICO PUBLIC WORKS DEPARTMENT

SCANNED BY
 PLANNING

CONSTRUCTION PLANS FOR

VACCUUM SEWER LINE EXTENSION

TRACT 1 LANDS OF ROMERO

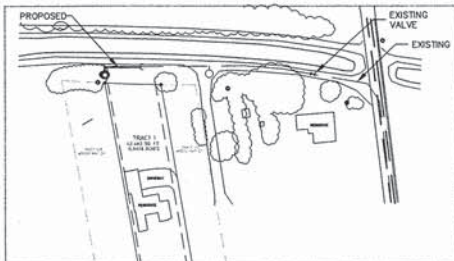
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SHEET NO.	DESCRIPTION
1	COVER SHEET
2	PLAT
3	VACUUM SEWER PLAN AND PROFILE
4	MRGCD - DETAILS AND CONSTRUCTION NOTES

APPROVED AS RECORD DRAWINGS
 DESIGN REVIEW SECTION
 CITY CONSTRUCTION ENGINEER
Anthony Lopez
 DATE: 03/01/12

* Field Verified on 03-01-2012.
 NOT AS-BUILT drawings

For Information Only



VACUUM SEWER VALVE SHUT-OFF PLAN

- NOTES
1. NOTIFY LINE MAINTENANCE DIVISION (873-8906) AT LEAST 7 WORKING DAYS IN ADVANCE OF NEEDED SHUT-OFF.
 2. ONLY CITY CREWS MAY OPERATE VALVES.
 3. SHUT-OFF EXISTING VALVE AS PER THE PLAN.

NOTE: ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA29 CFR 1926.650 PART P.



- NOTES
- 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 UPDATE #7.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING THE EXECUTION OF THE SEWER VALVE SHUT-OFF PLAN WITH LINE MAINTENANCE DIVISION (873-8906) SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING PUBLIC VACUUM SEWER UTILITIES.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALLS SYSTEM (280-1990) 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 IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATIONS DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- 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 SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS 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 GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

- 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 DEPRESSIONED 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.

WILSON & COMPANY
 4900 LANG AVENUE N.E.
 ALBUQUERQUE, NEW MEXICO 87109
 (505) 348-6000

REV	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
1	1	APPROVED	03/01/12	ENGINEER	10/22/07	APPROVED FOR CONSTRUCTION	
ENGINEERS STAMP & SIGNATURE APPROVED <i>Robert A. Pulte</i> 9/26/04 Village of Los Ranchos Municipal Engineer							
APPROVALS City Engineer: <i>Anthony Lopez</i> 9/28/04 City Engineer: <i>Robert A. Pulte</i> 10/16/04							
City Project No. 748781 XXXX Sheet 1 of 4							

748781

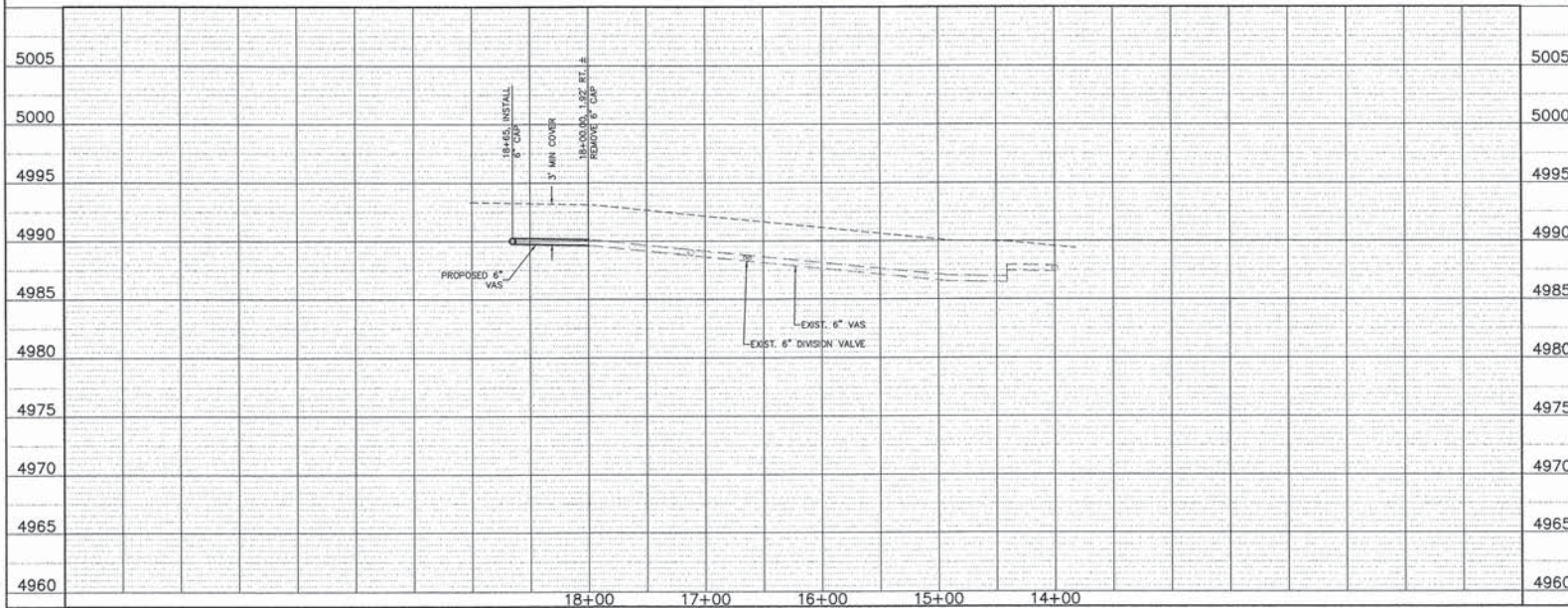
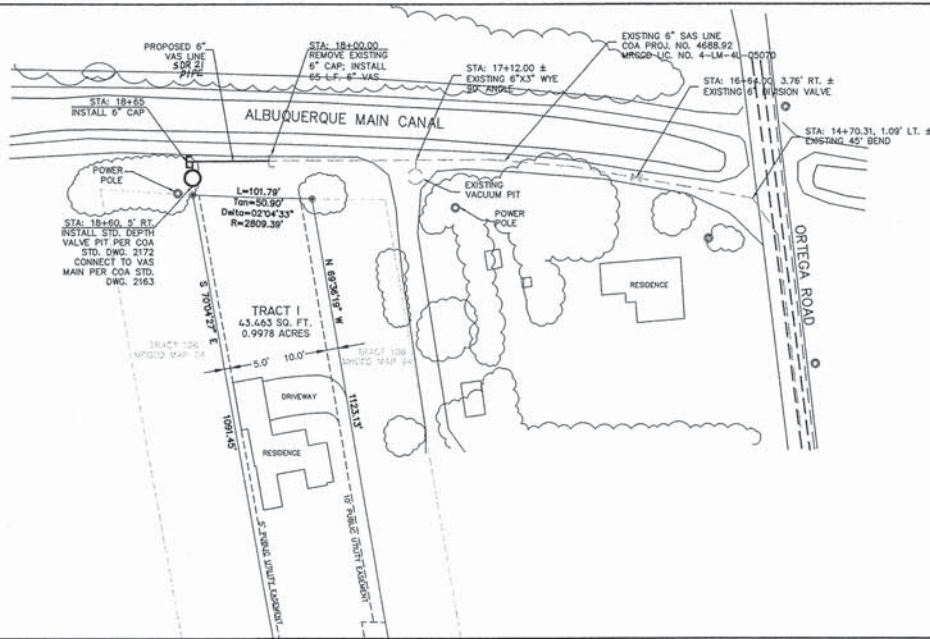
THIS SKETCH PLAT IS NOT TO BE UTILIZED FOR ANY DESIGN PURPOSES OR FOR GRADING AND DRAINAGE PLANS.



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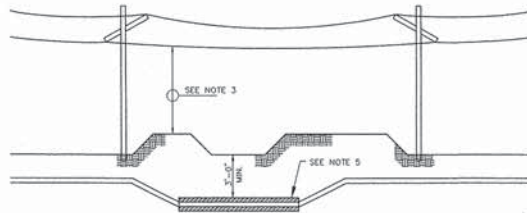


ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE LOCATIONS. VERIFY LOCATION OF ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK.

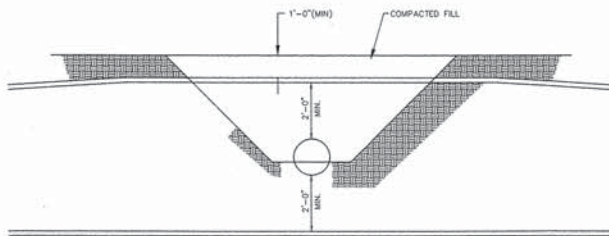
BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		AS-BUILT INFORMATION	
STATION	DESCRIPTION	NO.	DATE	NO.	DATE	NO.	DATE
18+00.00	USGS TRIANGULATION STATION						
17+12.00	USGS TRIANGULATION STATION						
16+54.00	USGS TRIANGULATION STATION						
14+70.31	USGS TRIANGULATION STATION						
NOTE: 1. PLAN & PROFILE HAS BASE OF NORTH VALLEY VACUUM SEWER PROJECT (C.O.A. PROJECT NO. 4688.92) SHEET C-15. CONSTRUCT SEWER LINE AS SHOWN. 2. CONSTRUCT PER C.O.A. STANDARD SPECIFICATIONS FOR CONSTRUCTION LATEST AMENDMENTS.		REVISIONS NO. DATE BY 1 3/12 2 3/12 3 3/12		WILSON & COMPANY, ENGINEERS & ARCHITECTS DESIGNED BY DRAWN BY CHECKED BY		WILSON & COMPANY PROJECT NO. XXXX MAP NO. C-15 SHEET 3 OF 4	

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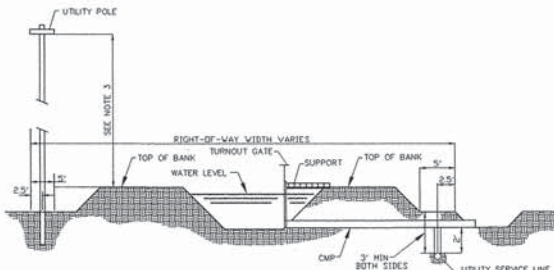
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OPEN CHANNEL CROSSING
NO SCALE



CROSSING AT CULVERTS
NO SCALE



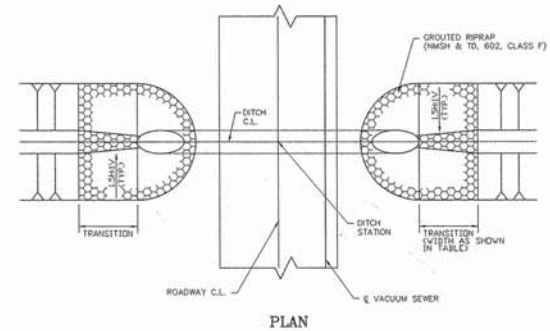
PARALLEL UTILITIES
TO FACILITIES R/W
NO SCALE

UTILITY CROSSING CONSTRUCTION NOTES

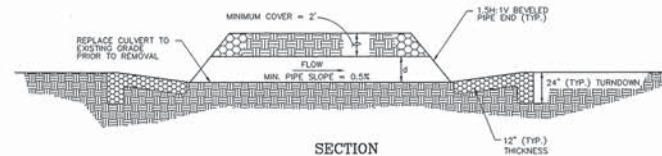
1. NO OPEN CUTS ARE PERMITTED DURING IRRIGATION SEASON, MARCH 1 TO NOVEMBER 1.
2. MAINTENANCE OF ALL UTILITY CROSSINGS SHALL BE THE RESPONSIBILITY OF THE LICENSEE.
3. OVERHEAD UTILITY INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION & AMENDMENTS OF LOCAL & STATE CODES. POWER LINES MUST BE INSTALLED A MINIMUM OF 37' ABOVE ANY DITCH, LATERAL, OR DRAIN. ANY TELECOMMUNICATIONS & CABLE TV MUST BE INSTALLED A MINIMUM OF 25' ABOVE ANY DITCH, LATERAL, OR DRAIN.
4. ALL LINE POLES, GUY POLES, & GUY LINES SHALL BE OUTSIDE THE RIGHT-OF-WAY TO PREVENT INTERFERENCE WITH MAINTENANCE OPERATIONS.
5. STEEL PIPE SHALL BE USED IN PLACE OF PLASTIC PIPE AT WATERWAY CROSSINGS, OR PLASTIC PIPE MAY BE CASED IN STEEL PIPE.
6. UTILITY SERVICE LINES INSTALLED PARALLEL AND WITHIN FACILITY RIGHT-OF-WAYS SHALL BE INSTALLED WITHIN THE OUTSIDE 5' OF THE RIGHT-OF-WAY & SHALL BE BURIED A MINIMUM OF 3' BELOW SURROUNDING NATURAL GROUND.
7. UTILITY CONDUITS SHALL NOT BE HUNG ON CHECKS, CULVERTS, SIPHON HEADWALLS OR FLUMES. TRUNK UTILITY CONDUITS MAY BE PERMITTED ON CONCRETE BRIDGES.
8. UNDER UNLINED WATERWAYS, A PROTECTIVE SLEEVE SHALL BE INSTALLED AROUND PIPE OR CABLE CROSSINGS UNDER CANAL, LATERAL, OR DRAIN PRISMS. THE PROTECTIVE SLEEVE SHALL BE INSTALLED TO ALLOW A MINIMUM OF 3' BETWEEN THE TOP OF THE SLEEVE & DESIGN INVERT, OR EXISTING BOTTOM (WHICHEVER IS LOWER) OF THE WATERWAY.
9. BACKFILL FOR CUTS THROUGH WATERWAYS & ADJACENT TO CULVERTS SHALL BE COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY OF THE SOIL AS DETERMINED BY THE ASTM PROCTOR TEST.
10. UNDER LINED WATERWAYS, A MINIMUM OF 24" SHALL BE PROVIDED BETWEEN THE TOP OF THE UTILITY CONDUIT & THE BOTTOM OF THE WATERWAY LINING. BORING & JACKING METHODS OF INSTALLATION SHALL BE USED TO MINIMIZE THE DISTURBANCE OF CONCRETE OR MEMBRANE-LINED WATERWAYS.
11. TUNNELING, BORING, OR JACKING MAY BE ALLOWED UNDER CANALS, LATERALS, & PIPE CULVERT CROSSINGS WITH THE APPROVAL OF THE DISTRICT ENGINEER. THE CROSSING DIAMETER CANNOT EXCEED 6-INCHES.
12. TUNNELING, BORING, & JACKING IS ALLOWED UNDER DRAINS AT ANY TIMES.
13. THE LICENSEE IS RESPONSIBLE FOR REPAIRING ANY DAMAGES TO ANY CANAL LINING & OR CULVERT CROSSINGS CAUSED BY TUNNELING, BORING, JACKING, OR EXCAVATING.
14. SEEDING OF DISTURBED AREAS WITHIN DISTRICT RIGHT-OF-WAYS IS REQUIRED PER DISTRICT SEEDING SPECIFICATIONS.

GENERAL CONSTRUCTION NOTES

1. ANY WORK TO BE PERFORMED WITHIN THE MIDDLE RIO GRANDE CONSERVANCY DISTRICT (M.R.G.C.D.) RIGHT-OF-WAY SHALL BE CLOSELY COORDINATED WITH THE M.R.G.C.D. ENGINEERING DEPARTMENT & APPROPRIATE FIELD OFFICE. PHONE: (505)247-0234.
2. NO WORK IS TO BE DONE ON FACILITIES OR STRUCTURES BELONGING TO, OR OPERATED BY, THE M.R.G.C.D. BETWEEN MARCH 1 & OCTOBER 31 INCLUSIVE. HOWEVER, WORK MAY BE PERMITTED BY THE M.R.G.C.D. IF IT CAN BE SHOWN THAT THE WORK WILL NOT INTERFERE WITH OPERATIONS OF THE M.R.G.C.D. FACILITY. ALL WORK TO BE DONE WITHIN THE M.R.G.C.D. FACILITIES MUST BE APPROVED BY THE M.R.G.C.D. ENGINEER PRIOR TO COMMENCING WORK.
3. THE CONTRACTOR SHALL NOT STORE EQUIPMENT, NEW MATERIALS OR DEBRIS WITHIN DISTRICT RIGHT-OF-WAY WHICH MAY INTERFERE WITH THE OPERATIONS & MAINTENANCE OF THE M.R.G.C.D. FACILITY.
4. THE CONTRACTOR SHALL NOT SERVICE VEHICLES OR EQUIPMENT WITHIN M.R.G.C.D. RIGHT-OF-WAY.
5. SEEDING OF DISTURBED AREAS WITHIN M.R.G.C.D. RIGHT-OF-WAY IS REQUIRED PER THE M.R.G.C.D. SEEDING SPECIFICATIONS.
6. THE CONTRACTOR MUST MAINTAIN A MINIMUM COVER OF 3' OVER ALL CULVERT CROSSINGS USED FOR ACCESS TO THE PROJECT SITE.
7. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND OR REPLACEMENT OF ANY STRUCTURES REMOVED AND OR DAMAGED DUE TO THE CONTRACTOR'S ACTIVITIES WITHIN THE DISTRICTS RIGHT-OF-WAY. SHOULD ANY TURNOUTS, CULVERT PIPES AND OR STRUCTURES REQUIRE REPLACEMENT DUE TO LEAKAGE AND OR DAMAGE BY THE CONTRACTOR, NEW TURNOUTS, AND NEW CULVERT PIPES AND OR NEW STRUCTURES SHALL REPLACE THE DAMAGED ITEM. REPAIRS AND OR REPLACEMENTS WITHIN THE DISTRICTS RIGHT-OF-WAY MUST COMPLY WITH THE DISTRICTS SPECIFICATIONS.
8. ALL DAMAGED CULVERT CROSSINGS AND CULVERT CROSSINGS REMOVED AND OR DISTURBED MUST BE RESTORED AND/OR REPLACED TO THE SATISFACTION OF THE M.R.G.C.D. AND COMPLY WITH M.R.G.C.D. SPECIFICATIONS.
9. ALL SALVAGEABLE CULVERTS, IRRIGATION GATES, ETC. MUST BE RETURNED TO THE M.R.G.C.D.
10. THE CONTRACTOR IS RESPONSIBLE FOR EXECUTING A "SPECIAL USE LICENSE AGREEMENT" WITH THE M.R.G.C.D. PRIOR TO CONSTRUCTION.
11. ANY DAMAGED ROAD CULVERT PIPES DAMAGED AS A RESULT OF THE CONTRACTOR'S WORK SHALL BE REPLACED WITH NEW PIPE AND MAY BE REQUIRED TO BE UP-SIZED AS DIRECTED BY THE DISTRICT.



PLAN



SECTION

MRCGD DITCH CULVERT DETAIL
N.T.S.

NOTE:
WHERE REQUIRED TO REMOVE/REPLACE EXISTING CULVERT,
REPLACE CULVERT TO MRCGD STD. SHOWN REPLACE CULVERT IF
DAMAGED IN REMOVAL PROCESS.

NOTES:

1. REINFORCED CONCRETE PIPE CULVERT SHALL CONFORM TO A.S.T.M. DESIGNATION C76-72, CLASS II, WALL B, USING "O" RING GASKETED JOINTS.
2. CORRUGATED METAL PIPE CULVERT SHALL CONFORM TO INTERIM FEDERAL SPECIFICATION WW-P-00405, CLASS I AND II, SHAPES 1, 2, AND 3.
3. CULVERT CROSSINGS SHALL BE SET AT AN ELEVATION PROVIDING A MAXIMUM BACK WATER EFFECT OF NOT MORE THAN 0.25' AS DETERMINED BY HYDRAULIC COMPUTATIONS.
4. TRANSITIONS SHALL BE PROVIDED AT BOTH INLET AND OUTLET OF THE PIPE AS SHOWN ON THE DRAWING ABOVE. TRANSITIONS MAY BE CONSTRUCTED OF CONCRETE OR GROUTED RIPRAP.
5. GROUTED RIPRAP PROTECTION SHALL BE USED ADJACENT TO STRUCTURES IN EARTH-SURFACED WATERWAYS WHERE EROSION MAY OCCUR.
6. ALL BACKFILL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE A.S.T.M. PROCTOR TEST.

ENGINEER'S SEAL



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT			
VACUUM SEWER LINE EXTENSION - LANDS OF ROMERO MRCGD LICENSES AND CONSTRUCTION NOTES/DETAILS			
Project Engineer	City Engineer	Inspector	Recorder
Project No. XXXX	Map No. N/A	Sheet 4	Of 4
WILSON & COMPANY			

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