



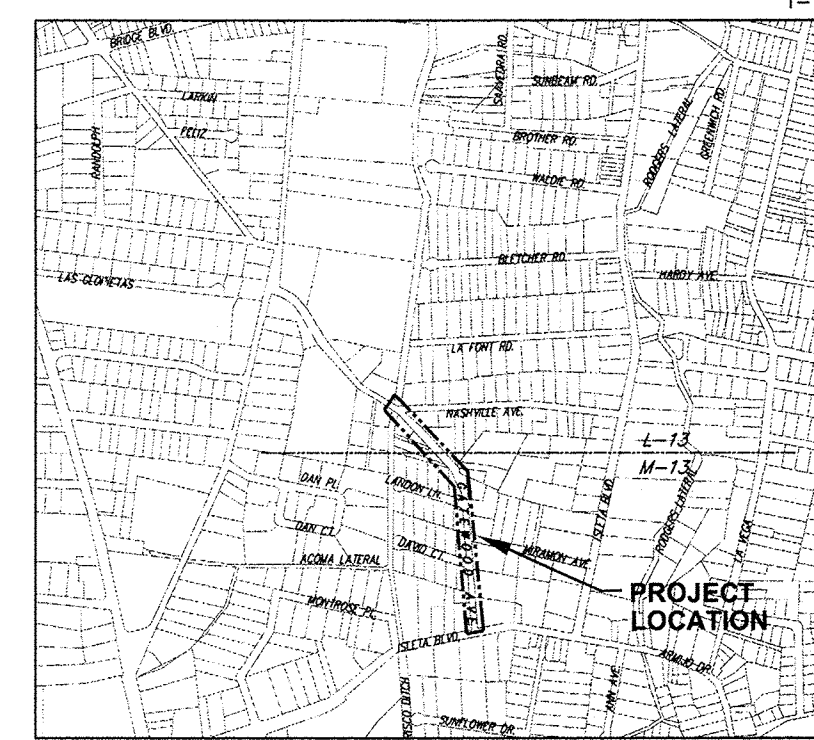
SHEET
No.

1-1

GATEWOOD AVENUE DRAINAGE PROJECT

PUBLIC WORKS DIVISION
COUNTY OF BERNALILLO, NEW MEXICO

BCPWD-ES98-04



VICINITY MAP

ZONE ATLAS L-13 & M-13
SCALE: 1" = 600'

FOR INFORMATION ONLY

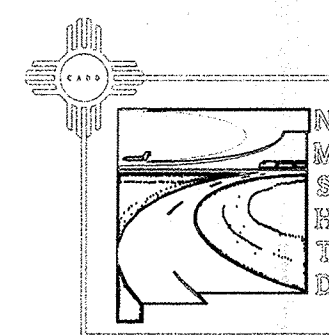
As-builts and Closeout package not submitted.
Bernalillo County Jurisdiction.

By: Jim Roeder Date: 12-17-2019

**CITY OF
ALBUQUERQUE**




NMSHTD












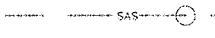



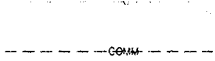




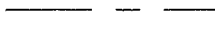
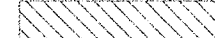
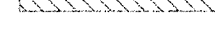
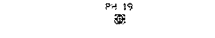
LARKIN GROUP, INC.
CONSULTING ENGINEERS AND SURVEYORS
8500 MENAUL NE, SUITE A440
ALBUQUERQUE, NEW MEXICO 87112
TELEPHONE (505) 275-7500
FAX (505) 275-0748

SET NUMBER

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE		
ENGINEER'S STAMP & SIGNATURE			APPROVALS	ENGINEER	DATE	*****			
 <i>Jan 17, 2003</i>			DRC Chairman	<i>[Signature]</i>	9-12-03	APPROVED FOR CONSTRUCTION			
			Transportation	N/A					
			Water/Wastewater	<i>[Signature]</i>	7-31-3				
			Hydrology	N/A					
			Parks						
			Constr. Coord.	N/A					
City Project No.					Sheet				
721881					1-1				


[illegible]

LEGEND

EXIST. BUILDING	
EXIST. CONTOURS	
EXIST. GATE	
EXIST. DRIVEWAY	
EXIST. BRICK WALL	
EXIST. IRON FENCE	
EXIST. EDGE OF PAVEMENT	
EXIST. CURB AND GUTTER	
EXIST. SAS W/ MH	
EXIST. SD W/ MH	
EXIST. WATERLINE W/ HYDRANT METER & VALVE	
EXIST. GAS LINE	
EXIST. COMM UTILITIES	
EXIST. OVERHEAD ELECTRIC W/ UTILITY POLE	
PROPOSED SD	
PROPOSED SD INLET	
CONSTRUCTION BASELINE	
PAVEMENT REMOVAL LIMITS	
POTHOLE LOCATIONS	
EXIST. SIGN	
EXIST. TREES	
HYDRAULIC GRADE LINE	

LIST OF ABBREVIATIONS

SD	STORM DRAIN
SAS	SANITARY SEWER
RCP	REINFORCED CONCRETE PIPE
WL	WATERLINE
BOP	BEGINNING OF PROJECT
EOP	END OF PROJECT
EP	EDGE OF PAVEMENT
ROW	RIGHT-OF-WAY
MH	MANHOLE
PH	POTHOLE
TP	TOP OF PIPE ELEVATIONS
LF	LINEAR FEET
EXIST.	EXISTING
R _L	CONSTRUCTION BASELINE
C _L	APPROXIMATE CENTERLINE OF ROADWAY
UP	UTILITY POLE
CATV	CABLE TV
COMM.	COMMUNICATIONS/ TELEPHONE
CONC.	CONCRETE
OHE	OVERHEAD ELECTRIC
DI	DUCTILE IRON
FL	FLOWLINE
BC	BACK OF CURB
HGL	HYDRAULIC GRADE LINE
PI	POINT OF INTERSECTION

BENCHMARK INFORMATION			
ALBUQUERQUE CONTROL SURVEY B.M. NO. 9-M12			
LOCATED IN THE SOUTHWEST CORNER OF THE			
INTERSECTION OF ISLETA BLVD. AND ARENAL RD.			
AN ACS 1 3/4" ALUMINUM DISK STAMPED "ACS			
BM, 9-M12", EPOXIED TO TOP OF CONCRETE			
CURB, AT THE WSW CURB RETURN, ELEV.=4940.91			
		ENGINEER'S SEAL	
3.			
2.			
1.			
REVISION	DATE	DESCRIPTION	BY
REVISIONS (OR CHANGE NOTICES)			
BERNALILLO COUNTY, PUBLIC WORKS DIV.			
GATEWOOD AVENUE DRAINAGE PROJECT			
BCPDW-ES38-04			
<i>INDEX OF SHEETS AND LEGEND</i>			
LARKIN GROUP NM, INC.			
CONSULTING ENGINEERS			
ALBUQUERQUE		NEW MEXICO	
FILE No.	DRAWN:	CHECKED:	DATE
01-0002	AB/GC/KH	JW	JULY 2003
		SHEET	1-2

GENERAL NOTES:

1. THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS, " 1986 EDITION, THROUGH UPDATE NO. 6 SHALL BE USED FOR ALL WORK INVOLVING INSTALLATION OF REINFORCED CONCRETE PIPE STORM DRAIN, STORM DRAIN MANHOLES, CATCH BASINS, STORM DRAIN LATERALS, TRENCHING AND BACKFILL, WATERLINE, AND SEWER SERVICES. ALL OTHER CONSTRUCTION WORK SHALL BE IN ACCORDANCE WITH THE NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, EDITION 2000.
2. CONTRACTOR SHALL DISPOSE OF ALL EXCAVATED DIRT FROM CONSTRUCTION SITE WHICH IS NOT REQUIRED FOR REUSE UNDER THIS CONTRACT. NO SEPARATE PAYMENT WILL BE MADE FOR ANY HAULING OR DISPOSAL OF MATERIALS. THE TRANSPORTATION AND/OR DISPOSAL OF MATERIAL SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM TO WHICH THE WORK PERTAINS.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL DEMOLITION DEBRIS. WORK MATERIALS SHALL BE DISPOSED OF IN CITY APPROVED WASTE AREAS, SECURED BY AND AT THE EXPENSE OF THE CONTRACTOR.
4. REINFORCED CONCRETE STRUCTURES SHALL HAVE REINFORCING STEEL CONTINUOUS AT ALL CORNERS.
5. DOWELS SHALL BE PROVIDED AT ALL CONNECTIONS OF REINFORCED CONCRETE CONSTRUCTION.
6. ALL TRAFFIC SIGNAGE ALONG GATEWOOD AVENUE AND WITHIN PROJECT LIMITS SHALL BE RELOCATED OR REMOVED AND REINSTALLED WHERE NECESSARY DUE TO CONFLICTS WITH CONSTRUCTION. REQUIRED RELOCATION OF SIGNAGE SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO SEPARATE PAYMENT SHALL BE MADE THEREFOR.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS NECESSARY FOR CONSTRUCTION. PERMITS SHALL BE ACQUIRED PRIOR TO CONSTRUCTION. CONTACT THE BERNALILLO COUNTY PUBLIC WORKS DIVISION (848-1500) FOR INFORMATION.
8. THE BERNALILLO COUNTY INSPECTOR SHALL BE NOTIFIED 48-HOURS PRIOR TO ANY WORK WITHIN CONSTRUCTION AREA LIMITS. TELEPHONE THE BERNALILLO COUNTY PUBLIC WORKS DIVISION AT 848-1500.
9. THE BERNALILLO COUNTY INSPECTOR WILL BE NOTIFIED 48 HOURS PRIOR TO FINAL INSPECTION OF ANY FACILITIES WITHIN THE CONSTRUCTION AREA LIMITS.
10. WHEN RELOCATING EXISTING WATER SERVICE METERS, CONTRACTOR SHALL REMOVE EXISTING METER BOX AND DELIVER TO THE CITY OF ALBUQUERQUE SALVAGE YARD AND FURNISH AND INSTALL A NEW CITY OF ALBUQUERQUE STANDARD METER BOX, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
11. ALL METER BOXES FOR NEW WATER SERVICES LINES SHALL BE CITY OF ALBUQUERQUE STANDARD METER BOX.
12. CONTRACTOR SHALL PROVIDE TEMPORARY WATER SERVICE LINES TO PROPERTIES WHEN WATER SERVICE IS INTERRUPTED FOR MORE THAN A FEW HOURS. PROPERTIES SHALL NOT BE WITHOUT WATER SERVICE OVERNIGHT. THE PROVIDANCE OF TEMPORARY WATER SERVICE SHALL BE CONSIDERED INCIDENTAL TO THIS PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE THEREFOR.
13. CERTAIN EXISTING HOUSES WITHIN THE PROJECT MAY HAVE MAILBOXES AT THE SIDE OF THE STREETS WHICH WILL REQUIRE RELOCATION IN ORDER TO CONSTRUCT THE NEW STREETS. CONTRACTOR SHALL CONTACT THE PROPERTY OWNER TO ALLOW THE OWNER TO MOVE THEIR MAILBOX OUT OF THE CONSTRUCTION AREA. SHOULD THE PROPERTY OWNER NOT REMOVE AND REPLACE THEIR MAILBOX THE CONTRACTOR SHALL PERFORM THE RELOCATION. WORK WILL INCLUDE THE RELOCATION OF THE MAILBOX FROM ITS EXISTING TO THE FINAL LOCATION TO BEHIND THE EDGE OF PAVEMENT ONLY. CONTRACTOR SHALL COORDINATE MAIL DELIVERY DURING THE CONSTRUCTION OF THE PROJECT WITH THE U.S. POSTAL SERVICE SO THAT THERE IS NO INTERRUPTION OF MAIL SERVICE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE THEREFOR.
14. CONTRACTOR SHALL COORDINATE AND INFORM PROPERTY OWNERS PRIOR TO THE REMOVAL OF LANDSCAPING AND/OR OTHER MISCELLANEOUS IMPROVEMENTS THAT MAY BE ENCOUNTERED ALONG THE STREET RIGHT-OF-WAY ABUTTING PRIVATE PROPERTY THAT ARE REQUIRED TO BE REMOVED TO CONSTRUCT THE PROJECT. CONTRACTOR SHALL GIVE PROPERTY OWNER OPPORTUNITY TO REMOVE ANY LANDSCAPING THAT THE PROPERTY OWNER MAY DESIRE TO REMOVE. PAYMENT FOR LANDSCAPING AND OTHER MISCELLANEOUS ITEMS REMOVED BY THE CONTRACTOR ALONG THE RIGHT-OF-WAY AS REQUIRED TO CONSTRUCT THE PROJECT WILL BE MADE UNDER THE BID ITEM FOR SITE CLEARING AND GRUBBING.
15. REPLACEMENT AND REPAIR OF LANDSCAPING DURING AND UPON COMPLETION OF THE PROJECT WILL BE CONSIDERED INCIDENTAL TO REMOVAL AS PROVIDED FOR IN THE BID ITEM FOR SITE CLEARING AND GRUBBING, AND NO SEPARATE PAYMENT WILL BE MADE.
16. THE CONTRACTOR SHALL HAND DELIVER SPECIAL NOTICES TO EACH RESIDENT OR BUSINESS ADJACENT TO THE CONSTRUCTION AREA AND TO OTHERS WHO MAY BE AFFECTED BY THE CONSTRUCTION ACTIVITIES. NOTICES SHALL PROVIDE INFORMATION WHENEVER ACCESS, UTILITY SERVICES OR OTHER SERVICES TO PROPERTIES MAY BE IMPAIRED.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR:
 - DELIVERY OF SPECIAL NOTICES NOT MORE THAN SEVEN (7) DAYS NOR LESS THAN FOUR (4) DAYS PRIOR TO PHYSICAL CONSTRUCTION THAT WILL AFFECT THE PROPERTY.
 - DELIVER CORRECTED NOTICES IF CONSTRUCTION DOES NOT START WITHIN 48 HOURS OF THE DATE GIVEN ON THE NOTICE.
 - THE WRITTEN NOTICE SHALL STATE:
 1. CONTRACTORS NAME, ADDRESS AND LOCAL TELEPHONE NUMBER.
 2. NATURE OF WORK TO BE DONE.
 3. TYPE OF DISRUPTION TO EXPECT.
 4. EXPECTED DURATION OF CONSTRUCTION AND START DATE.
 5. CONTRACTORS LOCAL PHONE NUMBER WHERE EMERGENCY CONDITIONS CAN BE REPORTED DURING NORMAL WORKING HOURS.
 6. CONTRACTORS LOCAL PHONE NUMBER WHERE EMERGENCY CONDITIONS CAN BE REPORTED DURING NON-WORKING HOURS.
18. CONTRACTOR SHALL PROVIDE ACCESS TO PROPERTIES WITHIN THE PROJECT AREA DURING CONSTRUCTION.
19. IT IS THE CONTRACTOR'S RESPONSIBILITY TO KNOW AND COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970", AS AMENDED.
20. ALL EXCAVATION SHALL BE GOVERNED BY FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH. OSHA 29 CFR 1926.650. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650.
21. THE CONTRACTOR WILL BE RESPONSIBLE TO REPLACE AT HIS OWN EXPENSE ANY AND ALL PROPERTY CORNERS DESTROYED IN THE PROCESS OF CONSTRUCTION. ALL PROPERTY CORNERS MUST BE SET BY A REGISTERED PROFESSIONAL SURVEYOR.
22. CONSTRUCTION EQUIPMENT & MATERIAL STORAGE: THE CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIAL WITHIN 30 FEET FROM THE EDGE OF THE DRIVING LANE UNLESS THE EQUIPMENT OR MATERIAL IS PROPERLY SHIELDED UTILIZING CURRENT SAFETY DESIGN AND INSTALLATION METHODS. THE SAFETY DESIGN FOR SHIELDING SHALL BE PROVIDED BY THE CONTRACTOR AND MUST BE APPROVED BY THE PROJECT MANAGER BEFORE IMPLEMENTING THE WORK. INCLUDING DESIGN, INSTALLATION AND REMOVAL OF THE SHIELDING. SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.

23. REMOVALS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED TO COMPLETE THE PROJECT. THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE PROJECT. "THE REMOVAL OF EXISTING ROADWAY SURFACING" WILL BE A SEPARATE BID ITEM WHICH INCLUDES REMOVAL OF ASPHALT PAVEMENT ON GATEWOOD AVENUE.
24. PUBLIC NOTIFICATION OF THE LANE CLOSURES: THROUGHOUT THE LIFE OF THIS PROJECT THE CONTRACTOR SHALL KEEP THE LOCAL NEWS MEDIA INFORMED OF LANE CLOSURES WHICH WILL RESTRICT THE NORMAL FLOW OF TRAFFIC. THERE WILL BE NO DIRECT MEASUREMENT OR PAYMENT MADE FOR THESE ADVISORIES.
25. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENT OR CURB AND GUTTER DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS AND SHALL REPAIR OR REPLACE SAME AT HIS OWN EXPENSE.
26. WHERE REMOVAL OF EXISTING CURB AND GUTTER IS REQUIRED, SUCH REMOVAL SHALL BE MADE BACK TO THE NEAREST JOINT BEYOND THE REMOVAL REQUIRED.
27. WHEN CONSTRUCTION UNDER THIS PROJECT CONNECTS TO EXISTING IMPROVEMENTS, THE CONTRACTOR SHALL PROVIDE A SMOOTH RIDING CONNECTION.
28. SEWER SERVICES ON THE EAST SIDE OF GATEWOOD AVENUE ARE SHOWN FOR REMOVAL AND REPLACEMENT BECAUSE CONFLICTS WITH THE PROPOSED STORM DRAIN ARE ANTICIPATED. IF A SEWER SERVICE IS NOT IN CONFLICT WITH THE PROPOSED STORM DRAIN, NO REPLACEMENT AND REMOVAL OF THE SEWER SERVICE WILL BE REQUIRED.
29. ALL SEWER MANHOLES AND WATER VALVE BOXES IN THE CONSTRUCTION AREA ARE TO BE ADJUSTED TO MATCH NEW FINISHED GRADE UNDER THIS CONTRACT.
30. THE CONTRACTOR SHALL AVOID DAMAGE TO ANY FENCING ALONG GATEWOOD AVENUE AND CONNECTING SIDE STREETS. ANY DAMAGED FENCING WILL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
31. BERNALILLO COUNTY INSPECTOR TO VERIFY EXISTING PAVEMENT THICKNESS ON ALL CUTS.
32. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING INTERIM DRAINAGE DURING CONSTRUCTION TO CONTROL STORM WATER NUISANCE FLOWS. CONTRACTOR SHALL BE REQUIRED TO REMOVE WATER AFTER ANY SIGNIFICANT PONDING THAT DEVELOPS AFTER A RAINSTORM BY PUMPING OR BY OTHER MEANS OR MEASURES. PAYMENT FOR THIS WORK SHALL BE MADE UNDER THE BID ITEM FOR "PROTECTION OF PROJECT FROM WATER DURING CONSTRUCTION".
33. CONTRACTOR SHALL PROVIDE WHATEVER MEANS NECESSARY TO PROTECT EXISTING STRUCTURES THAT MAY BE AFFECTED BY CONSTRUCTION. ANY DAMAGE TO EXISTING STRUCTURES SHALL BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL RESTRICT USE OF VIBRATORY COMPACTION EQUIPMENT WITHIN THE VICINITY OF EXISTING STRUCTURES WHICH WOULD BE SUBJECT TO DAMAGE.
34. CONTRACTOR SHALL COORDINATE WITH THE CITY OF ALBUQUERQUE WATER SYSTEMS DIVISION (857-8200) SEVEN (7) 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 SEVEN (7) WORKING DAYS IN ADVANCE TO NEEDING VALVES TURNED ON OR OFF.
35. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK ON WATERLINE IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB THE 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 ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED. CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT TO COVER THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE C.O.A. STANDARD SPECIFICATIONS.
36. MATCH ALL NEW PAVING ELEVATIONS AT EXISTING, ABUTTING AREAS, WHEN ABUTTING NEW PAVEMENT TO EXISTING. SAW CUT EXISTING PAVEMENT TO A NEAT STRAIGHT LINE AS REQUIRED TO REMOVE ANY BROKEN OR CRACKED PAVEMENT AND MATCH NEW TO EXISTING. TACK COAT SHALL BE APPLIED TO EDGES OF EXISTING PAVEMENT PRIOR TO BEGINNING NEW PAVEMENT OPERATIONS. SUCH WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OF THE PROJECT.
37. THE CONTRACTOR SHALL BE REQUIRED TO CONFINE HIS WORK WITHIN THE CONSTRUCTION LIMITS AND/OR R/W TO PRESERVE EXISTING VEGETATION AND PRIVATE PROPERTY. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAY OPENINGS. CONTRACTOR SHALL COORDINATE THE LOCATION OF EQUIPMENT PARKING WITH BERNALILLO COUNTY PUBLIC WORKS. USING A 25 MPH SPEED LIMIT. A MINIMUM OF SEVEN FEET FROM THE TRAVELED LANES SHALL BE PROVIDED. REASONABLE ACCESS TO ALL PROPERTIES SHALL BE MAINTAINED AT ALL TIMES, AND REASONABLE ARRANGEMENT FOR ACCESS SHALL BE COORDINATED WITH PROPERTY OWNERS WHEN CONSTRUCTION IS BEING PERFORMED DIRECTLY IN FRONT OF THEIR PROPERTIES.
38. THE CONTRACTOR SHALL MEET WITH APPLICABLE REPRESENTATIVES OF PRIVATE UTILITY COMPANIES, INCLUDING THE ELECTRIC COMPANY, GAS COMPANY, TELEPHONE COMPANY, AND CABLE TELEVISION COMPANY PRIOR TO BEGINNING CONSTRUCTION TO DETERMINE WHERE CONFLICTS WITH THEIR FACILITIES EXIST. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT THESE FACILITIES DURING CONSTRUCTION OPERATIONS OF THIS PROJECT AND MAINTAIN THEIR SERVICES. THE CONTRACTOR IS ADVISED THAT ALL DATA FOR UNDERGROUND UTILITIES SHOWN HEREIN CONCERNING EXISTING UTILITIES HAS BEEN COMPILED FROM THE RECORDS OF THE OWNERS OF THE UTILITIES, THE CITY OF ALBUQUERQUE AND FROM FIELD OBSERVATIONS. THESE MAY OR MAY NOT BE ACCURATE. HE IS CAUTIONED THAT HE IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS OF, FOR PROVIDING PROTECTION FOR AND MAINTAINING IN OPERATION, ALL SUCH LINES DURING CONSTRUCTION. THE CONTRACTOR SHALL GIVE ALL PUBLIC UTILITY COMPANIES NOTICE IN WRITING, NO LESS THAN 48 HOURS, PRIOR TO ANY WORK THAT WOULD INTERFERE IN ANY WAY WHATSOEVER WITH THE SERVICE OF ANY EXISTING PUBLIC UTILITIES, CITY-OWNED FACILITIES OR COUNTY OWNED FACILITIES.
39. THE CONTRACTOR SHALL EMPLOY SHORING, SHEETING AND OTHER MEANS OF SUPPORT TO PREVENT DAMAGE OR LOSS OF ANY EXISTING UTILITIES. BEAM AND CABLE OR OTHER ADEQUATE SUPPORTS SHALL BE USED FOR TEMPORARY SUPPORT OF ALL UTILITY LINES WHICH CROSS THE TRENCH. ANY DAMAGE TO EXISTING UTILITIES SHALL BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE. THE PROJECT MANAGER SHALL BE IMMEDIATELY NOTIFIED OF ANY SIGNIFICANT DEVIATION OF EXPOSED UTILITIES FROM THE LOCATIONS SHOWN ON THE PLANS SO THAT THE CONFLICTS MAY BE RESOLVED IN A TIMELY MANNER. NO DIRECT PAYMENT WILL BE MADE FOR SUPPORTING EXISTING UTILITIES DURING CONSTRUCTION. THIS WORK IS CONSIDERED INCIDENTAL.
40. PRIOR TO COMMENCING WORK IN A SPECIFIC AREA, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER SO THAT THE CONFLICT MAY BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THIS WORK SHALL BE CONSIDERED INCIDENTAL AND NO DIRECT PAYMENT SHALL BE MADE THEREFOR.
41. ALL DATA SHOWN HEREIN CONCERNING EXISTING UTILITIES HAS BEEN OBTAINED FROM OWNERS OF UTILITIES, RECORDS OF THE CITY OF ALBUQUERQUE, FROM FIELD OBSERVATION, AND FROM RECENT POT-HOLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT LOCATIONS OF UTILITIES. ALL POT-HOLING FOR DETERMINATION OF UNDERGROUND UTILITIES SHALL BE CONSIDERED INCIDENTAL TO THIS CONTRACT.
42. THE CONTRACTOR SHALL COORDINATE ANY WORK REQUIRED BY OTHERS IN THE CONSTRUCTION AREA WITH THE CONSTRUCTION OF THIS PROJECT INCLUDING (BUT NOT LIMITED TO) OTHER CONTRACTORS AND UTILITY COMPANIES. IT MAY BE REQUIRED TO RESCHEDULE ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCE CAUSED BY UTILITY COMPANY WORK CREWS.
43. PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE-CALL SYSTEM INC. (260-1990) TWO (2) WORKING DAYS IN ADVANCE FOR LOCATION OF EXISTING UTILITIES.

44. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PAVEMENT OR CURB AND GUTTER DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND SHALL REPAIR OR REPLACE SAME AT HIS OWN EXPENSE.
45. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED UTILITY LINES WHICH ARE EXPOSED AS A RESULT OF CONSTRUCTION UNLESS OTHERWISE DIRECTED.
46. MAINTENANCE OF AS-BUILT PLANS: THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THESE PLANS SHALL BE KEPT CURRENT, WITHIN TWO WEEKS, AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY THE PROJECT MANAGER THROUGHOUT THE PROJECT AND WILL BE REVIEWED BY THE P.M. FOR ACCURACY AND COMPLETENESS AT LEAST ONCE EVERY 30 DAYS. THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED TO THE PROJECT MANAGER PRIOR TO FINAL PAYMENT.
47. CONTRACTOR SHALL BE RESPONSIBLE FOR VIDEO TAPING ALL EXISTING BUILDINGS AND OTHER STRUCTURES WITHIN 200 FEET OF CONSTRUCTION LIMITS PRIOR TO STARTING CONSTRUCTION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THIS CONTRACT.
48. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A TRAFFIC CONTROL PLAN FOR ANY WORK TO BE PERFORMED WITHIN OR ADJACENT TO EXISTING ROADWAYS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE TRAFFIC CONTROL PLAN PRIOR TO CONSTRUCTION, PROVIDING FLAGMEN, AND PROVIDING ALL OF THE NECESSARY TRAFFIC CONTROL DEVICES INCLUDING SIGNAGE, STRIPING, AND THE REMOVAL AND RESETING OF THESE TRAFFIC CONTROL DEVICES. THIS WORK SHALL BE PAID FOR UNDER THE LUMP SUM BID ITEM FOR "TRAFFIC CONTROL".
49. THE CONTRACTOR SHALL COORDINATE TRAFFIC CONTROL PLANS WITH THE COUNTY OF BERNALILLO (CONTACT: RICHARD MODARAK) 848-1500, AND THE ALBUQUERQUE PUBLIC SCHOOLS.
50. THE CONTRACTOR SHALL VERIFY EXISTING INVERT ELEVATIONS FOR EXISTING STORM DRAIN IN GATEWOOD AVENUE WITHIN PROJECT LIMITS PRIOR TO CONSTRUCTION OF STORM DRAIN.
51. THE GRATE ELEVATIONS CALLED OUT ON THE PLANS ARE INTENDED TO BE WITHIN 2" TO 7" BELOW THE EXISTING EDGE OF ROADWAY AND BELOW EXISTING GROUND TO PROVIDE DRAINAGE TO THE GRATES. IF FIELD CONDITIONS INDICATE OTHERWISE, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER.
52. WHERE REMOVAL OF THE EXISTING CURB AND GUTTER IS REQUIRED, SUCH REMOVAL SHALL BE MADE BACK TO THE NEAREST JOINT BEYOND THE REMOVAL REQUIRED.
53. MATCH FLOWLINES OF GUTTER WHEN CONNECTING NEW CURB AND GUTTER TO EXISTING.
54. ANY EXISTING STRIPING AT THE INTERSECTION OF GATEWOOD AVENUE AND NASHVILLE AVENUE WHERE PAVEMENT REPLACEMENT IS REQUIRED SHALL BE REPLACED. (THIS INCLUDES ANY CENTERLINE STRIPING AND STOP BARS.) THIS WORK SHALL BE PAID FOR UNDER THE LUMP SUM BID ITEM FOR "ROADWAY STRIPING".

ENVIRONMENTAL NOTES

1. DISPOSAL OF UNSUITABLE MATERIALS & DEBRIS: THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER, IN WRITING, OF THE DETAILS OF THE DISPOSAL OPERATIONS, BORROW MATERIALS, ROCK WASTE, VEGETATIVE DEBRIS, ETC., SHALL NOT BE PLACED IN WETLAND AREAS OR AREAS WHICH MAY IMPACT ENDANGERED SPECIES OR ARCHAEOLOGICAL RESOURCES. AN ARCHAEOLOGICAL SURVEY AND ENVIRONMENTAL CLEARANCE SHALL BE OBTAINED BY THE CONTRACTOR BEFORE DISPOSAL SITES ARE ACCEPTED IN ACCORDANCE WITH SECTION 107.14.
2. DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, ASPHALT PAVING, CONCRETE PAVING, CURB & GUTTER, SIDEWALKS, DRIVEWAYS AND OTHER REMOVAL ITEMS SHALL BE LOCATED BY THE CONTRACTOR. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO DIRECT PAYMENT WILL BE MADE THEREFOR. THE DISPOSAL SITE SHALL BE ENVIRONMENTALLY ACCEPTABLE AND APPROVED BY THE PROJECT MANAGER. ALSO, A PERMITTED FACILITY FOR DISPOSABLE HAZARDOUS WASTE SHALL BE LOCATED AND APPROVED BY THE PROJECT MANAGER.
3. CONTRACTOR'S ACTIVITIES IN THE VICINITY OF WATERWAYS: ALL WORK IN THE VICINITY OF LIVE STREAMS, WATER IMPROVEMENTS, WETLANDS OR IRRIGATION SUPPLIES SHALL BE EFFECTED IN SUCH A MANNER AS TO MINIMIZE VEGETATION REMOVAL, SOILS DISTURBANCES AND EROSION. CROSSINGS OF LIVE STREAMS WITH HEAVY EQUIPMENT SHALL BE MINIMIZED, AS DETERMINED BY THE PROJECT MANAGER, EQUIPMENT REFUELING, MAINTENANCE AND CEMENT DUMPING IN THE VICINITY OF WATER CROSSINGS IS STRICTLY PROHIBITED AND SHALL BE PERFORMED IN PROPER CONTAINMENT AREAS.
4. THE CONTRACTOR SHALL ENSURE THAT DAMAGE TO OR REMOVAL OF VEGETATION WILL BE KEPT TO A MINIMUM AND THAT NO EXTRANEIOUS CLEARING, GRUBBING, LAND DISTURBANCE OR EXCAVATIONS WILL TAKE PLACE. CONSISTANT WITH THE REQUIREMENTS OF THE DEPARTMENT'S STANDARD SPECIFICATIONS SECTION 107.29 PROTECTION & RESTORATION OF PROPERTY & LANDSCAPING, SECTION 201: CLEARING & GRUBBING, AND SUBSECTION B03.32 CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL SEE TO IT THAT TREES AND SHRUBS WITHIN THE RIGHT OF WAY AND ALONG THE FENCE LINES ARE NOT OVERRUN OR DAMAGED BY CONSTRUCTION EQUIPMENT UNNECESSARILY. ALL AREAS DISTURBED BY THE CONTRACTOR SHALL HAVE TEMPORARY AND PERMANENT EROSION CONTROL MEASURES IMPLEMENTED BY THE CONTRACTOR IN ACCORDANCE WITH THE NPDES REGULATIONS. THE CONTRACTOR IS AT ALL TIMES RESPONSIBLE FOR COMPLIANCE WITH THE NEW MEXICO WATER QUALITY ACT AND APPLICABLE CLEAN WATER ACT PERMITS AND REGULATIONS. THE CONTRACTOR SHALL BEAR THE FULL COST OF IMPLEMENTATION OF EROSION CONTROL MEASURES AND VEGETATION REMEDIATION NECESSARY DUE TO THE CONTRACTOR'S NEGLIGENCE AS DETERMINED BY THE PROJECT MANAGER AND THE ENVIRONMENTAL PROGRAM MANAGER'S REPRESENTATIVE. THIS WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO MEASUREMENT OR PAYMENT WILL BE MADE.

UTILITY CONTACTS

UTILITY	UTILITY OWNERS	CONTACT PERSON	TELEPHONE NUMBER
CABLE TELEVISION	COMCAST INTERCABLE	RITA ERICKSON	761-6235
ELECTRIC LINES	PUBLIC SERVICE COMPANY OF N.M.	ROBERT GARCIA	241-3334
GAS LINES	PUBLIC SERVICE COMPANY OF N.M.	ELISABETH GABEL	241-7745
TELEPHONE LINES	QWEST COMMUNICATIONS	DAVID MULLER	245-8706
WATER AND SEWER	CITY OF ALBUQUERQUE	GREG OLSON	768-2719

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN NPDES PERMIT DURING CONSTRUCTION, FILLING OUT THE NOTICE OF INTENT (NOI) APPLICATION, NOTICE OF TERMINATION APPLICATION, AND FULFILLING ALL OTHER NECESSARY NPDES REQUIREMENTS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE SUBMITTAL OF A POLLUTION PREVENTION PLAN AND INSPECTION REPORTS. THESE ITEMS SHALL BE PAID FOR UNDER THE BID ITEM FOR "NPDES STORM WATER PERMITTING AND SWPPP".
- ANY CHECK DAMS OR SILT FENCES THAT ARE CALLED FOR ON THE REQUIRED POLLUTION PREVENTION PLAN SHALL BE PAID UNDER THE BID ITEM FOR "NPDES STORM WATER PERMITTING AND SWPPP", AND ANY ADDITIONAL MEASURES NEEDED FOR THE POLLUTION PREVENTION PLAN SHALL BE PAID FOR UNDER THE BID ITEM FOR "PROTECTION OF PROJECT FROM WATER DURING CONSTRUCTION".
6. THE CONTRACTOR SHALL PROPERLY HANDLE AND DISPOSE OF ALL CLEAN ASPHALT PAVEMENT AND CONCRETE MATERIAL TO BE REMOVED ACCORDING TO THE PLANS. CLEAN ASPHALT IS CLASSIFIED AS FILL MATERIAL AND IS NOT SUBJECT TO THE SOLID WASTE MANAGEMENT REGULATIONS OF THE NEW MEXICO ENVIRONMENTAL DEPARTMENT. CLEAN IS DEFINED AS BEING FREE OF SOLID WASTE OR CONTAMINANTS WHICH HAVE THE POTENTIAL OF MIGRATE INTO SURFACE OR GROUND WATER. THE MATERIAL SHALL BE COVERED WITH TWO FEET OF CLEAN EARTH IMMEDIATELY AFTER DEPOSITION. THE MATERIAL CANNOT BE PLACED IN A WATERCOURSE, ARROYO OR WITHIN 10 FEET OF GROUNDWATER. IF THE ASPHALT AND CONCRETE MATERIAL IS NOT CLEAN IT IS SUBJECT TO THE SOLID WASTE ACT AND MUST BE PLACED IN AN APPROVED LANDFILL. ALL DISPOSAL SITES ARE SUBJECT TO THE APPROVAL OF THE RESPECTIVE LANDOWNER AND THE PROJECT MANAGER.

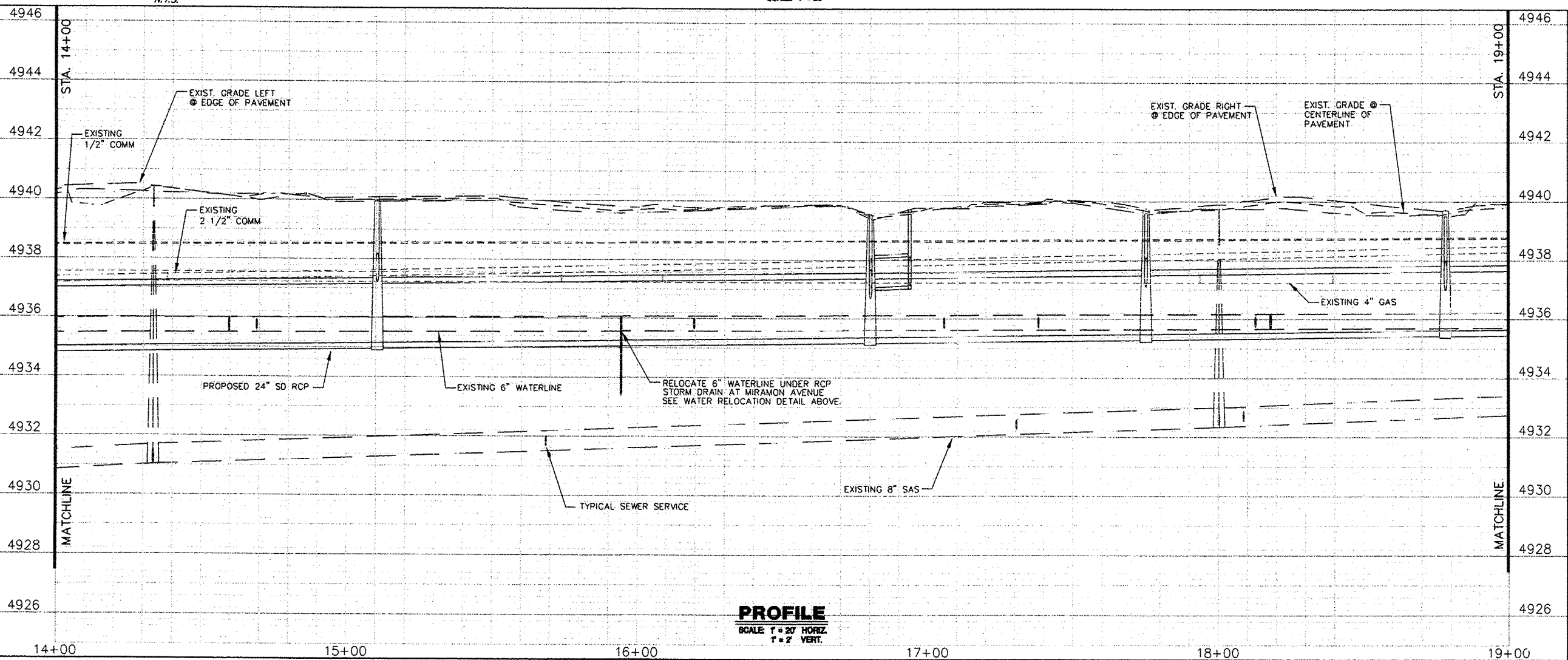
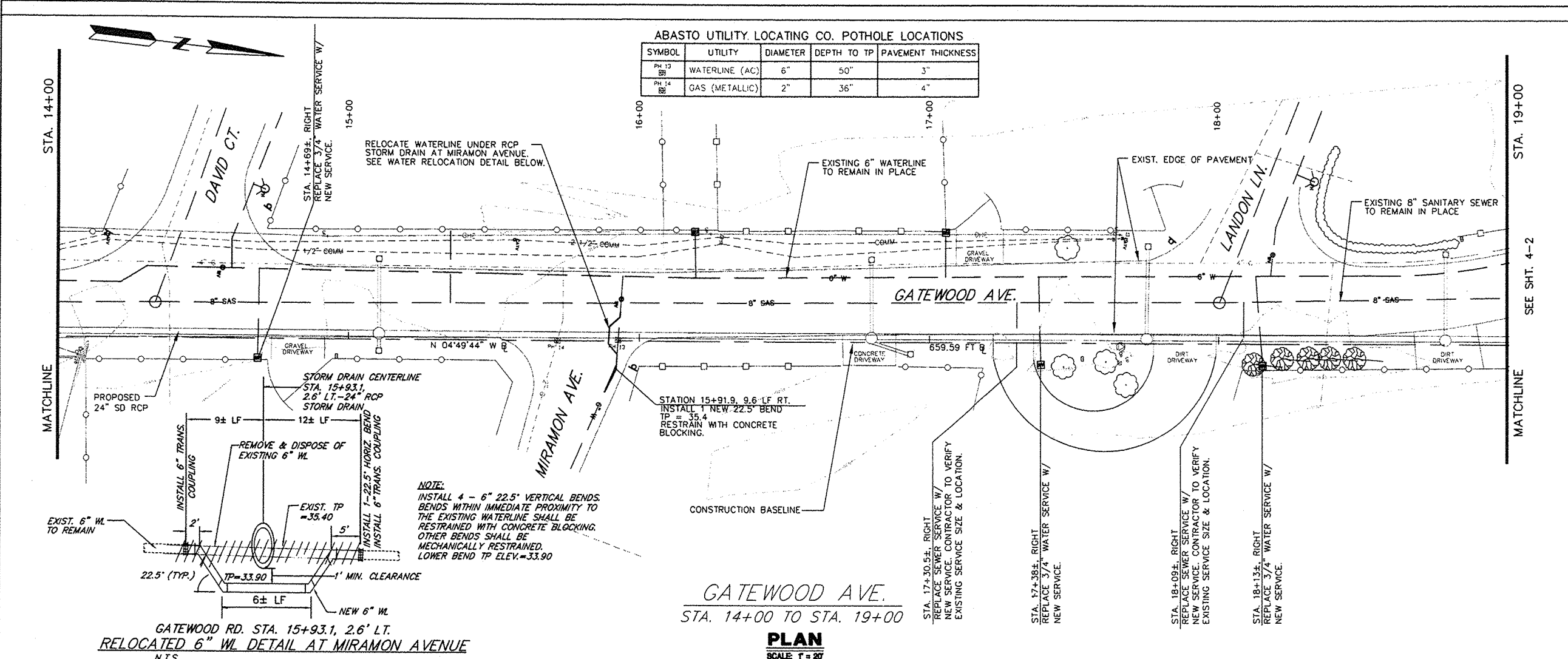
ASBESTOS CEMENT PIPE REMOVAL AND DISPOSAL

1. DESCRIPTION OF WORK: REMOVE, TRANSPORT AND DISPOSAL ALL ASBESTOS CEMENT (AC) PIPE, IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. THE WORK SPECIFIED HEREIN SHALL BE THE REMOVAL OF ALL AC PIPE BY COMPETENT PERSONS IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ASBESTOS PIPELINE BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE SUCCESSFUL CONTRACTOR TO MAKE PROPER ARRANGEMENT WITH AUTHORIZED AGENCY FOR HANDLING BUT NOT LIMITED TO REMOVAL, TRANSPORT AND DISPOSAL OF ALL ASBESTOS PIPES.
2. SUBMITTALS: PROOF, SATISFACTORY TO THE ENGINEER, THAT REQUIRED PERMITS TO HAVE BEEN OBTAINED AND THE ARRANGEMENTS FOR TRANSPORT AND DISPOSAL OF ASBESTOS CONTAINING WASTE MATERIALS HAVE BEEN MADE. ALL DUMP RECEIPTS, TRIP TICKETS, TRANSPORTATION MANIFESTS OR OTHER DOCUMENTATION OF DISPOSAL SHALL BE DELIVERED TO THE PROJECT ENGINEER FOR HIS/HER RECORDS. USE A RECORD KEEPING FORMAT THAT UTILIZES A CHAIN OF CUSTODY FORM WHICH INCLUDES THE NAMES AND ADDRESSES OF THE GENERATOR (OWNER), CONTRACTOR, PICKUP SITE, AND DISPOSAL SITE, THE ESTIMATED QUANTITY OF THE ASBESTOS WASTE AND TYPE OF CONTAINER, AND THE DISPOSAL SITE OPERATOR, AS THE RESPONSIBILITY FOR THE MATERIAL CHANGES HANDS. IF A SEPARATE HAULER IS EMPLOYED, HIS NAME, ADDRESS, TELEPHONE NUMBER AND SIGNATURE MUST BE ALSO APPEAR ON THE FORM. EACH COPY OF THE WASTE MANIFEST IS TO BE SIGNED BY ALL PERSONS INVOLVED IN THE CHAIN OF CUSTODY OF THE ASBESTOS WASTE.
3. MEASUREMENT AND PAYMENT: THE ASBESTOS PIPES SHALL BE REMOVED, TRANSPORTED AND DISPOSED OF BY AN AUTHORIZED AND REGISTERED AGENCY. IF THE CONTRACTOR IS NOT AUTHORIZED TO HANDLE ASBESTOS PIPES, HE/SHE SHALL MAKE ARRANGEMENT WITH AUTHORIZED AND REGISTERED AGENCY FOR HANDLING ASBESTOS PIPES. THE PAYMENT FOR REMOVAL, TRANSPORTATION AND DISPOSAL SHALL BE MADE ON A UNIT PRICE PER LINEAR FOOT.

RELEVANT NEW MEXICO REGULATIONS AND OFFICE:

NEW MEXICO/SOLID WASTE MANAGEMENT REGULATIONS/TITLE 20-CHAPTER 9-PART 1
WEB SITE ADDRESS -- www.nmenv.state.nm.us

BENCHMARK INFORMATION	
ALBUQUERQUE CONTROL SURVEY S.M. NO. 9-M12 LOCATED IN THE SOUTHWEST CORNER OF THE INTERSECTION OF ISLETA BLVD. AND ARENAL RD. AN ACS 1 3/4" ALUMINUM DISK STAMPED "ACS RM. 9 M12", EPOXIED TO TOP OF CONCRETE CURB, AT THE WSW CURB RETURN, ELEV.=4940.91	
15543	
ENGINEER'S SEAL	
3	
2	
1	
REVISION DATE	DESCRIPTION
BY	
REVISIONS (OR CHANGE NOTICES)	
BERNALILLO COUNTY, PUBLIC WORKS DIV.	
GATEWOOD AVENUE DRAINAGE PROJECT BCPWD-ES98-04	
GENERAL NOTES	
LARKIN GROUP NM, INC. CONSULTING ENGINEERS	
01-0007 AB/OC/KH JW JULY 2003 SHEET 1-3	



NOTES:

- CONTRACTOR SHALL VERIFY EXISTING PIPE SIZE PRIOR TO STARTING THIS WORK.
- CONTRACTOR MUST MAINTAIN WATER SERVICE TO ALL USERS AT ALL TIMES DURING CONSTRUCTION. WATER SERVICE LINES TO PRIVATE PROPERTIES THAT ARE CALLED OUT FOR REMOVAL ARE TO BE REMOVED AND REPLACED FROM THE MAIN LINE TO THE METER BOX. WATER METER BOXES ARE TO REMAIN UNLESS THEY ARE CALLED OUT FOR REPLACEMENT.
- IN PROXIMITY OF EXISTING PIPE WHICH MAY NOT BE RESTRAINED, CONCRETE BLOCKING IS REQUIRED TO ENSURE RESTRAIN WITHIN RESTRAIN LENGTH OF THE TIE-IN.
- FITTINGS INSTALLED IN NEW WATERLINES SHALL BE MECHANICALLY RESTRAINED.
- CONCRETE BLOCKING AND/OR MECHANICAL RESTRAINTS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE WATERLINE.
- SANITARY SEWER SERVICES CALLED OUT FOR REPLACEMENT ARE TO BE REPLACED PER C.O.A. STD. 2134. LOCATION OF EXISTING SANITARY SEWER SERVICE IS OBTAINED FROM EXISTING AS-BUILT INFORMATION. CONTRACTOR TO VERIFY EXACT LOCATION OF SERVICES. ALL EXISTING SERVICE LINES THAT ARE CALLED OUT FOR REPLACEMENT MUST BE REPLACED FROM THE PROPERTY LINE TO THE EXISTING SANITARY SEWER LINE. (SEWER SERVICES ARE NOT REQUIRED FOR REPLACEMENT IF THEY ARE NOT IN CONFLICT WITH THE NEW STORM DRAIN.)
- REFER TO GENERAL NOTES SHEET 1-3, FOR ASBESTOS CEMENT WATERLINE DISPOSAL.
- SEE SHEET 4-4 FOR WATER SHUTOFF PLAN AND RESTRAINED JOINT LENGTH TABLES.

AS BUILT INFORMATION

CONTRACTOR	DATE

BENCH MARKS

ALBUQUERQUE CONTROL SURVEY B.M. NO. 9-M12	LOCATED IN THE SOUTHWEST CORNER OF THE INTERSECTION OF ISLETA BLVD. AND ARNAL RD.	AN ACS 1 3/4" ALUMINUM DISK STAMPED "ACS	DATE

SURVEY INFORMATION

NO.	DATE	BY
1		
2		
3		
4		
5		
6		
7		

ENGINEER'S SEAL

LARKIN GROUP, INC.
CONSULTING ENGINEERS AND SURVEYORS
8500 MENAUL BLVD. NE A-440 (505) 275-7500

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

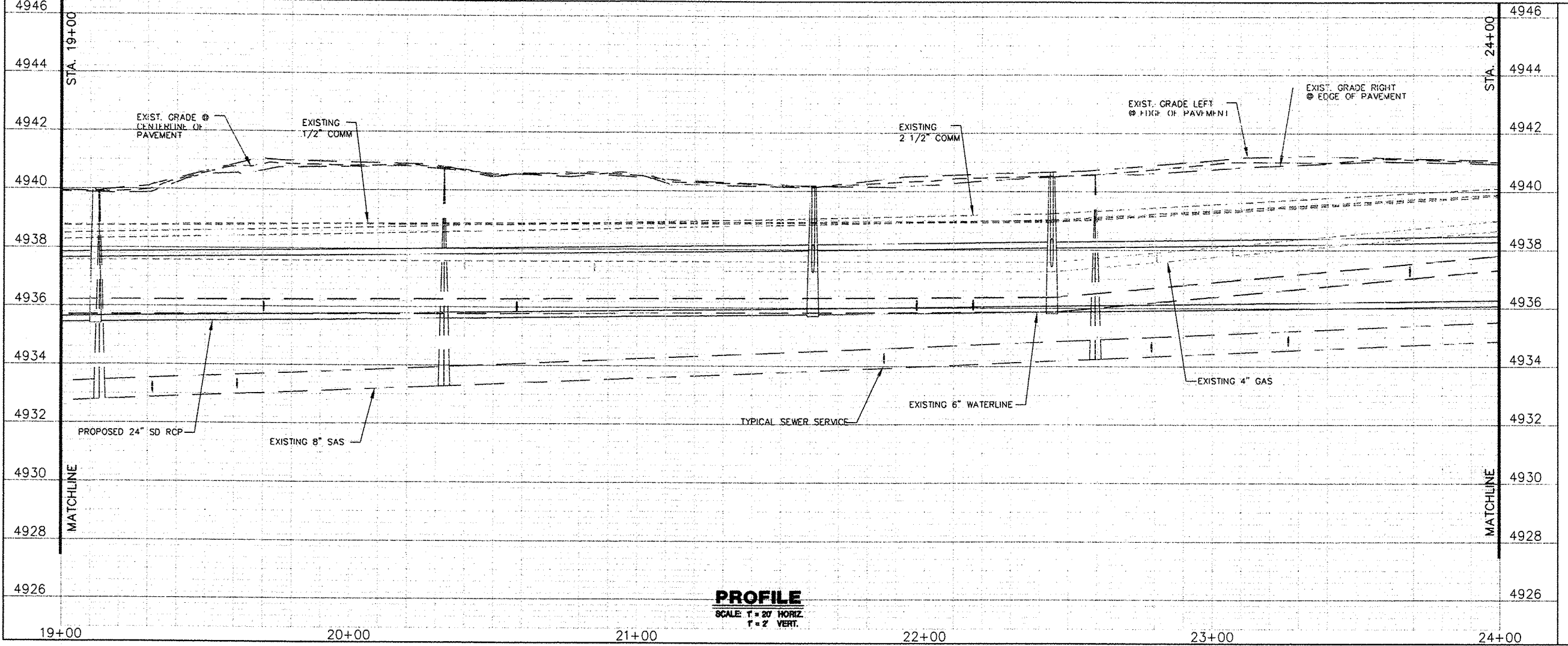
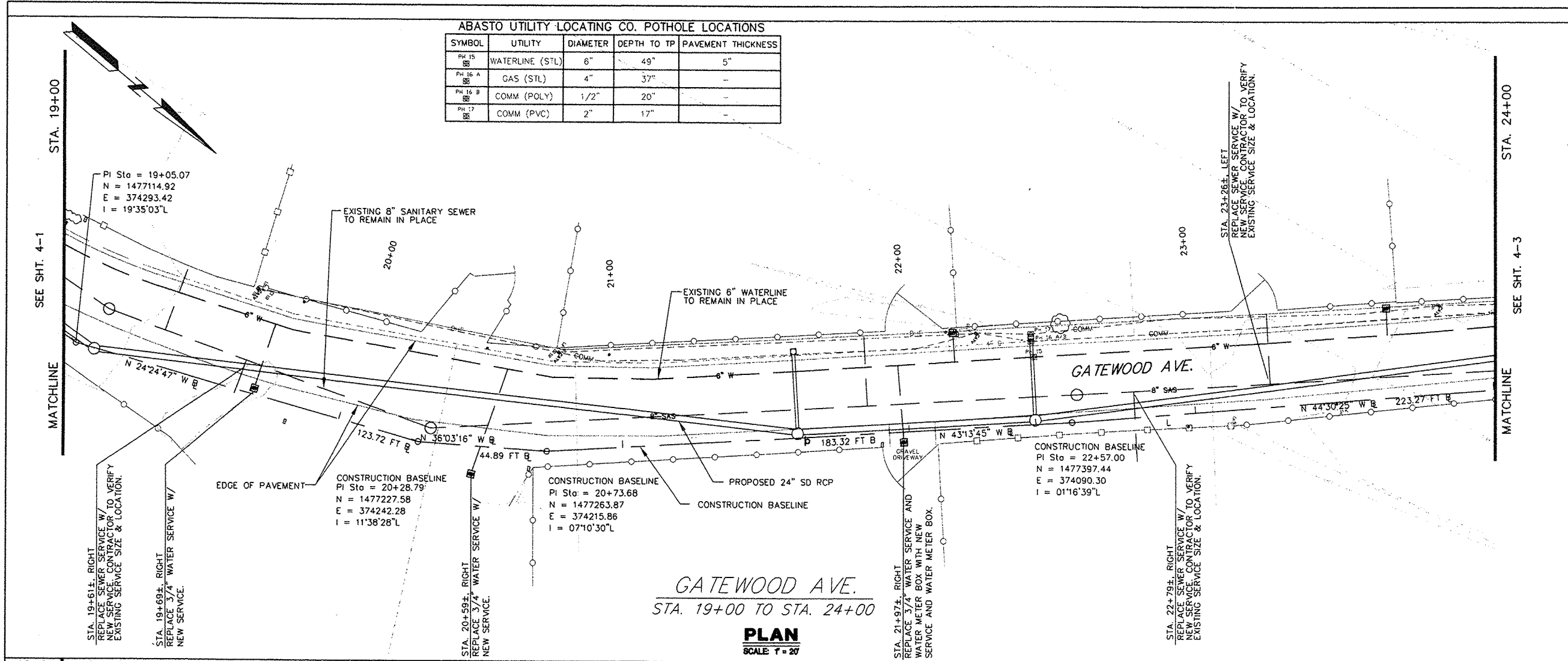
TITLE: **GATEWOOD AVENUE DRAINAGE PROJECT**
COMBINED UTILITY PLAN & PROFILE
STA. 14+00 TO STA. 19+00

DESIGN	DATE	BY	REMARKS

DESIGNED BY: J.W.
DRAWN BY: A.B.
CHECKED BY: J.E.M.

Project No. **7 2183/01-0002** Zone Map No. **L&M-13** Sheet **4-1**

ABASTO UTILITY LOCATING CO. POTHOLE LOCATIONS table with columns: SYMBOL, UTILITY, DIAMETER, DEPTH TO TP, PAVEMENT THICKNESS. Rows include WATERLINE (STL), GAS (STL), COMM (POLY), and COMM (PVC).



NOTES: 1. CONTRACTOR SHALL VERIFY EXISTING PIPE SIZE PRIOR TO STARTING THIS WORK. 2. CONTRACTOR MUST MAINTAIN WATER SERVICE TO ALL USERS AT ALL TIMES DURING CONSTRUCTION. 3. IN PROXIMITY OF EXISTING PIPE WHICH MAY NOT BE RESTRAINED, CONCRETE BLOCKING IS REQUIRED TO ENSURE RESTRAIN WITHIN RESTRAIN LENGTH OF THE TIE-IN. 4. FITTINGS INSTALLED IN NEW WATERLINES SHALL BE MECHANICALLY RESTRAINED. 5. CONCRETE BLOCKING AND/OR MECHANICAL RESTRAINTS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE WATERLINE. 6. SANITARY SEWER SERVICES CALLED OUT FOR REPLACEMENT ARE TO BE REPLACED PER C.O.A. STD. 2154. 7. REFER TO GENERAL NOTES SHEET 1-3, FOR ASBESTOS CEMENT WATERLINE DISPOSAL.

AS BUILT INFORMATION table with columns: NO., DATE, BY, REMARKS. Includes rows for 1 through 7.

ENGINEER'S SEAL: J. WOLFENBARGER, REGISTERED PROFESSIONAL ENGINEER, No. 19543, State of New Mexico.

LARKIN GROUP, INC. CONSULTING ENGINEERS AND SURVEYORS. 8500 MENAUL BLVD., NE A-440 (505) 275-7500.

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT. TITLE: GATEWOOD AVENUE DRAINAGE PROJECT COMBINED UTILITY PLAN & PROFILE STA. 19+00 TO STA. 24+00.

Project No. 01-0002, Zone Map No. L&M-13, Sheet 4-2.

WATER SHUTOFF PLAN



SHEET
No.
4-4

THE PURPOSE OF THIS WORK IS TO ALLOW FOR RELOCATION OF THE WATERLINE IN GATEWOOD AVENUE BELOW THE PROPOSED STORM DRAIN PIPE AS REQUIRED AND TO ALLOW FOR WATER SERVICE REPLACEMENTS. TEN (10) DAYS BEFORE ANY VALVES ARE CLOSED, THE CONTRACTOR SHALL CONTACT THE BERNALILLO COUNTY FIRE DEPARTMENT.

NOTES:

1. CLOSE VALVES "M-13-121", "M-13-71", "L-13-1093" & "L-13-862" FOR WATERLINE RELOCATION AT THE INTERSECTION OF GATEWOOD AVE. WITH NASHVILLE AVE. FROM STATIONS 24+50 TO 25+40.
 2. CLOSE VALVES "M-13-M1", "M-13-121", AND "L-13-863" FOR WATERLINE RELOCATION AT THE INTERSECTION OF GATEWOOD AVE. WITH NASHVILLE AVE. MIRAMON AVENUE AT APPROXIMATELY STATION 15+90.
- * "M-13-M1" - NEW GATE VALVE ON MIRAMON AVENUE PER ISLETA BLVD. ROADWAY IMPROVEMENTS, PHASE I (COA PROJECT 684891)
- * "M-13-M2" - NEW FIRE HYDRANT ON MIRAMON AVENUE PER ISLETA BLVD. ROADWAY IMPROVEMENTS, PHASE I (COA PROJECT 684891)

UTILITY SERVICE
REPLACEMENT RECORD

ADDRESS	SANITARY SEWER SERVICE & SIZE	WATER SERVICE & SIZE
1632 Gatewood Ave.		
1612 Gatewood Ave.		
1608 Gatewood Ave.		
99999 Gatewood Ave.		
1532 Gatewood Ave.		
1508 Gatewood Ave.		
1112 Gatewood Ave.		
1513 Gatewood Ave.		
1501 Gatewood Ave.		

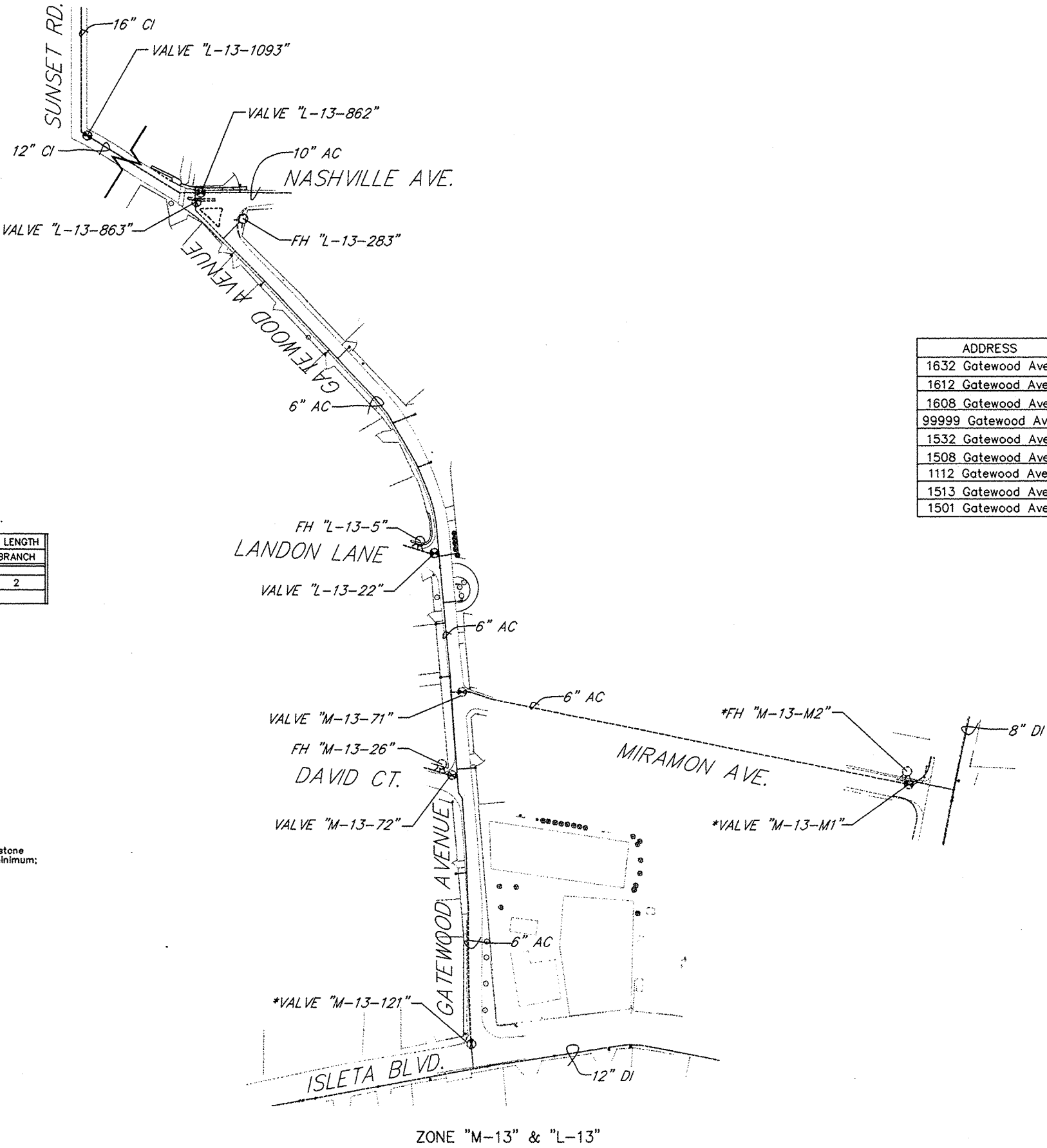
RESTRAINED JOINT LENGTHS, Lr.
FOR TEES, (FT.)
ALL JOINTS AT THE TEE MUST BE RESTRAINED.

SIZE	MINIMUM RUN LENGTH		MINIMUM RUN LENGTH	
	RUN	BRANCH	RUN	BRANCH
6x6x6	6	20	10	2

RESTRAINED JOINT LENGTHS, Lr.
FOR BENDS (FT.)

SIZE	HORIZONTAL BENDS	
	45°	22-1/2°
6"	7	3

Note:
This table is based upon the following criteria:
Depth of Bury 3.0 ft. minimum
Factor of Safety 1.25
Material PVC Pipe
Soil Type GM/SM-Silty gravels & silty sands,
gravel-sand-silt mixtures.
Test Pressure 150 psi
Trench Type 4 Pipe bedded in sand, gravel, or crushed stone
to depth of 1/8 pipe diameter, 4 inch minimum;
backfill compacted to top of pipe



BENCHMARK INFORMATION		
ALBUQUERQUE CONTROL SURVEY B.M. NO. 9-M12 LOCATED IN THE SOUTHWEST CORNER OF THE INTERSECTION OF ISLETA BLVD. AND ARENAL RD. AN ACS 1 3/4" ALUMINUM DISK STAMPED "ACS BM, 9-M12", EPOXY TO TOP OF CONCRETE CURB, AT THE WSW CURB RETURN, ELEV.=4940.91		
3.		
2.		
1.		
REVISION	DATE	DESCRIPTION BY
REVISIONS (OR CHANGE NOTICES)		
BERNALILLO COUNTY, PUBLIC WORKS DIV.		
GATEWOOD AVENUE DRAINAGE PROJECT BCPHD-ES98-04		
GATEWOOD AVENUE WATER SHUT-OFF PLAN		
LARKIN GROUP NM, INC. CONSULTING ENGINEERS		
FILE No.	DRAWN	CHECKED
01-0002	AB/GC/KH	JW
DATE	JULY 2003	
SHEET	4-4	