TRACT 3-A INTERSTATE BUSINESS PARK FIRE LINE IMPROVEMENTS

EASEMENT KEYED NOTES

(14) A TEN FOOT (10') PUBLIC UTILITY EASEMENT, AND INCIDENTAL PURPOSES THERETO RESERVED ALONG THE STREET RIGHT-OF-WAY OF THE INSURED PREMISES, AS SHOWN ON THE RECORDED PLAT, RECORDED IN PLAT BOOK 2000C, PAGE 131, RECORDS OF BERNALILLO COUNTY, NEW MEXICO. GRAPHICALLY SHOWN HEREON

(15) A TWENTY-FIVE FOOT (25') PUBLIC WATER, SANITARY SEWER AND DRAINAGE EASEMENT, AND INCIDENTAL PURPOSES THERETO RESERVED ALONG THE SOUTHWESTERLY LOT LINE OF THE INSURED PREMISES, AS SHOWN ON THE RECORDED PLAT, RECORDED IN PLAT BOOK 2000C, PAGE 131, RECORDS OF BERNALILLO COUNTY, NEW MEXICO. GRAPHICALLY SHOWN HEREON

NOTE:
THIS IS NOT A BOUNDARY SURVEY. APPARENT PROPERTY CORNERS ARE SHOWN FOR ORIENTATION ONLY. BOUNDARY AND EASEMENT DATA SHOWN IS FROM THE "PLAT OF TRACTS 2-A THRU 3-A, INTERSTATE BUSINESS PARK" BY WAYJOHN SURVEYING DATED FEBRUARY 2004. TOPOGRAPHIC INFORMATION SHOWN IS FROM "TOPOGRAPHIC SURVEY FOR INTERSTATE BUSINESS PARK, TRACT 3" CONDUCTED BY ALDRICH LAND SURVEYING AND DATED 01/03/04. DOMESTIC WATERLINE, PRIVATE SANITARY SEWER, ELECTRIC GAS AND PHONE LINES SHOWN HEREON ARE FROM SHEET U.1 OF THE BUILDING PERMIT PLANS AND ARE TO BE CONSTRUCTED BY SEPARATE PERMIT.

1

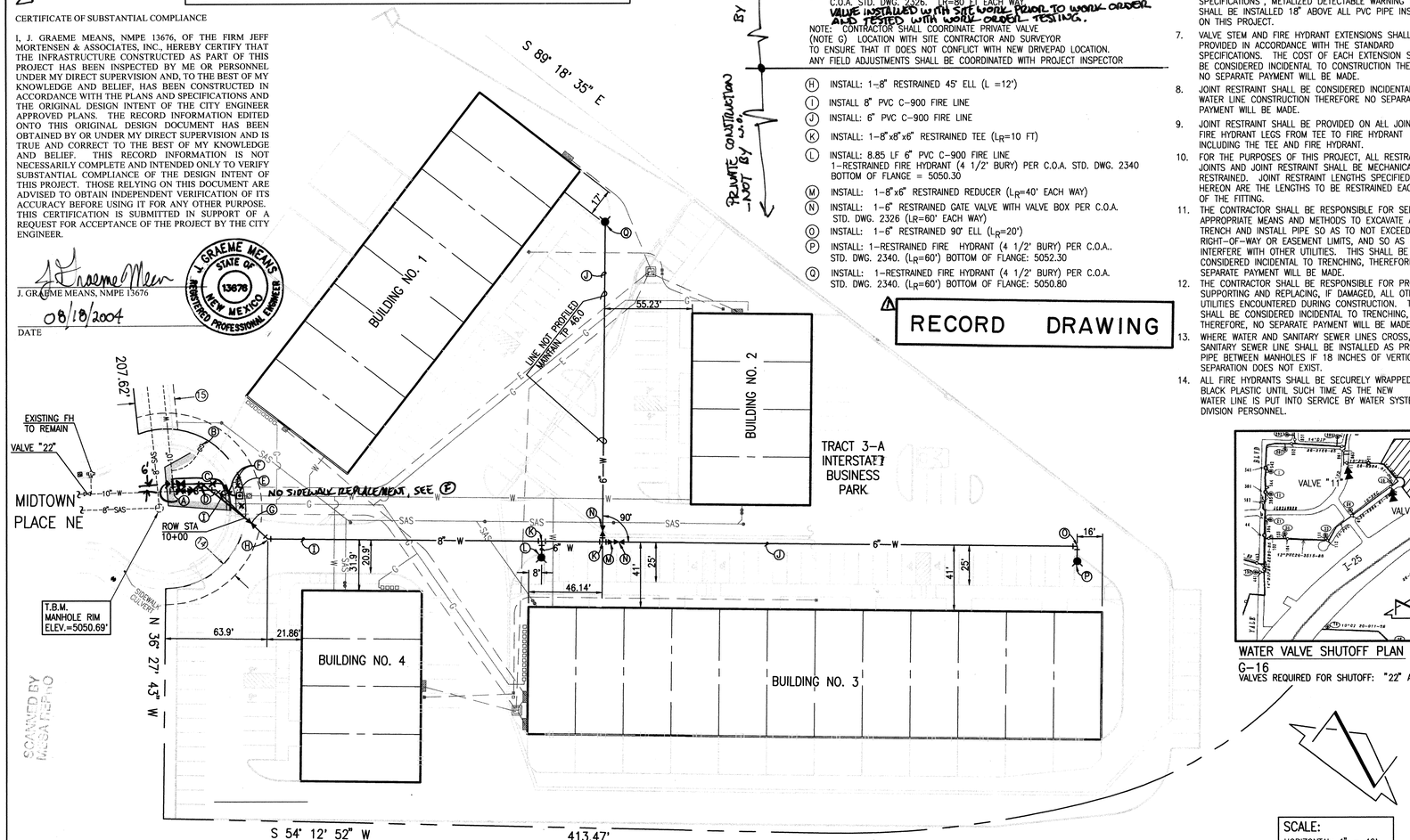
CERTIFICATE OF SUBSTANTIAL COMPLIANCE

I, J. GRAEME MEANS, NMPE 13676, OF THE FIRM JEFF MORTENSEN & ASSOCIATES, INC., HEREBY CERTIFY THAT THE INFRASTRUCTURE CONSTRUCTED AS PART OF THIS PROJECT HAS BEEN INSPECTED BY ME OR PERSONNEL UNDER MY DIRECT SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE AND BELIEF, HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND THE ORIGINAL DESIGN INTENT OF THE CITY ENGINEER APPROVED PLANS. THE RECORD INFORMATION EDITED ONTO THIS ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY OR UNDER MY DIRECT SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS RECORD INFORMATION IS NOT NECESSARILY COMPLETE AND INTENDED TO VERIFY SUBSTANTIAL COMPLIANCE OF THE DESIGN INTENT OF THIS PROJECT. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR ACCEPTANCE OF THE PROJECT BY THE CITY ENGINEER.

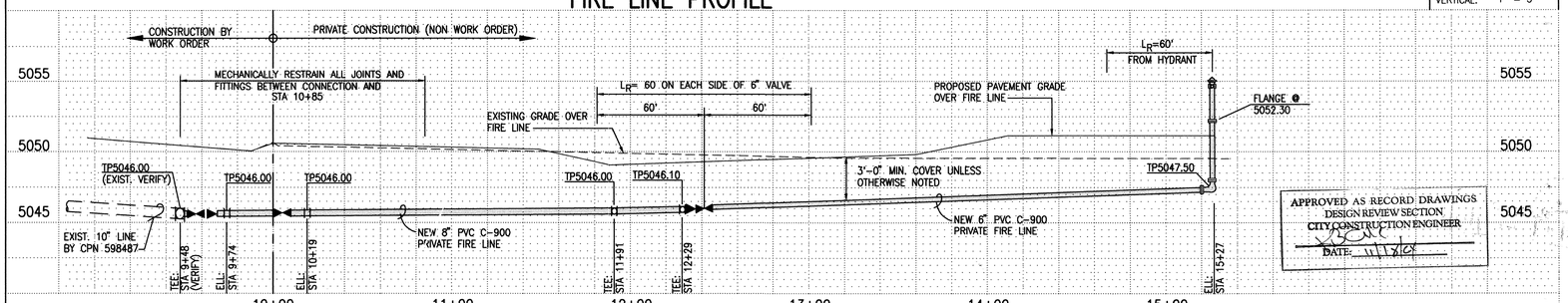
J. GRAEME MEANS, NMPE 13676

08/18/2004
DATE

J. GRAEME MEANS STATE OF NEW MEXICO 13676 REGISTERED PROFESSIONAL ENGINEER



FIRE LINE PROFILE



ELEVATIONS ARE IN NGVD 1929

SCALE:
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 5'

KEYED CONSTRUCTION NOTES

1

(A) NON PRESSURE CONNECTION. ~~REMOVE AND DISPOSE OF EXISTING 10" 90 DEGREE ELL~~ INSTALL: 4
1-10"X10"X6" RESTRAINED TEE
1-6" RESTRAINED GATE VALVE WITH VALVE BOX PER C.O.A. STD DWG 2326
~~1-10"X6" RESTRAINED REDUCER (N.E)~~
1-10" RESTRAINED SLEEVE
NOTE: CONNECTION MADE 6' WEST OF EXISTING 90° ELL
(B) CONCRETE BLOCKING (DRY)
(C) REMOVE AND DISPOSE OF EXISTING WATER SERVICE
(D) CONSTRUCTED BY CPN 598481. CAP SERVICE LINE AT MAIN.
(E) NEATLY SAWCUT, REMOVE, DISPOSE AND REPLACE EXISTING AC PAVEMENT PER C.O.A. STD. DWG. 2465.
~~INSTALL:~~ 1-8" RESTRAINED 45 DEGREE ELL (L_R=20')
~~INSTALL:~~ 1-2" WATER SERVICE AND METER BOX PER C.O.A. STD. DWG. 2363. CONNECT SERVICE TO MAIN.
(F) NEATLY SAWCUT, REMOVE, DISPOSE AND REPLACE EXISTING ~~SIDEWALK PER C.O.A. STD DWG 2430~~ AND STANDARD CURB AND GUTTER PER C.O.A. STD DWG 2415 ~~2A~~ (15 LF)
NOTE: SIDEWALK WORK TO BE ACCOMPLISHED UNDER BUILDING PERMIT.
(G) INSTALL: 1-8" PRIVATE GATE VALVE WITH VALVE BOX PER C.O.A. STD. DWG. 2326. L_R=80 FT EACH WAY.
VALVE INSTALLED WITH SITE WORK PRIOR TO WORK ORDER AND TESTED WITH WORK ORDER TESTING.
NOTE: CONTRACTOR SHALL COORDINATE PRIVATE VALVE (NOTE G) LOCATION WITH SITE CONTRACTOR AND SURVEYOR TO ENSURE THAT IT DOES NOT CONFLICT WITH NEW DRIVEPAD LOCATION. ANY FIELD ADJUSTMENTS SHALL BE COORDINATED WITH PROJECT INSPECTOR

BY WORK ORDER

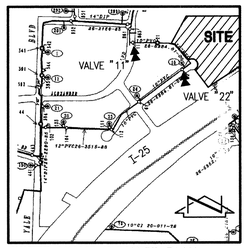
PRIVATE CONSTRUCTION NOT BY C.O.A.

(H) INSTALL: 1-8" RESTRAINED 45° ELL (L =12')
(I) INSTALL 8" PVC C-900 FIRE LINE
(J) INSTALL: 6" PVC C-900 FIRE LINE
(K) INSTALL: 1-8"x8"x6" RESTRAINED TEE (L_R=10 FT)
(L) INSTALL: 8.85 LF 6" PVC C-900 FIRE LINE
1-RESTRAINED FIRE HYDRANT (4 1/2' BURY) PER C.O.A. STD. DWG. 2340
BOTTOM OF FLANGE = 5050.30
(M) INSTALL: 1-8"x6" RESTRAINED REDUCER (L_R=40' EACH WAY)
(N) INSTALL: 1-6" RESTRAINED GATE VALVE WITH VALVE BOX PER C.O.A. STD. DWG. 2326 (L_R=60' EACH WAY)
(O) INSTALL: 1-6" RESTRAINED 90° ELL (L_R=20')
(P) INSTALL: 1-RESTRAINED FIRE HYDRANT (4 1/2' BURY) PER C.O.A.. STD. DWG. 2340. (L_R=60') BOTTOM OF FLANGE: 5052.30
(Q) INSTALL: 1-RESTRAINED FIRE HYDRANT (4 1/2' BURY) PER C.O.A. STD. DWG. 2340. (L_R=60') BOTTOM OF FLANGE: 5050.80

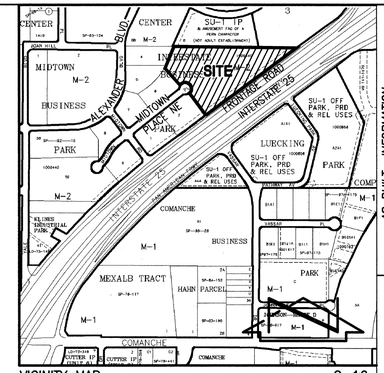
RECORD DRAWING

WATER LINE CONSTRUCTION NOTES:

1. ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.
2. FOR ALL LINES 12" AND SMALLER, WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.
3. FOR ALL LINES 14" AND LARGER, WATER MAIN SHALL BE DUCTILE IRON OR PVC C-905 OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. CONCRETE CYLINDER IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF DUCTILE IRON.
4. WATER LINE SHALL HAVE A MINIMUM COVER OF 3'-0" (FINISHED GRADE TO TOP OF PIPE). EXTRA DEPTH TRENCHING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
5. ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
6. IN ACCORDANCE WITH SECTION 801 OF THE "STANDARD SPECIFICATIONS", METALIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.
7. VALVE STEM AND FIRE HYDRANT EXTENSIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE COST OF EACH EXTENSION SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
8. JOINT RESTRAINT SHALL BE CONSIDERED INCIDENTAL TO WATER LINE CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
9. JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE HYDRANT LEGS FROM TEE TO FIRE HYDRANT INCLUDING THE TEE AND FIRE HYDRANT.
10. FOR THE PURPOSES OF THIS PROJECT, ALL RESTRAINED JOINTS AND JOINT RESTRAINT SHALL BE MECHANICALLY RESTRAINED. JOINT RESTRAINT LENGTHS SPECIFIED HEREON ARE THE LENGTHS TO BE RESTRAINED EACH SIDE OF THE FITTING.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
13. WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE INSTALLED AS PRESSURE PIPE BETWEEN MANHOLES IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.
14. ALL FIRE HYDRANTS SHALL BE SECURELY WRAPPED IN BLACK PLASTIC UNTIL SUCH TIME AS THE NEW WATER LINE IS PUT INTO SERVICE BY WATER SYSTEM DIVISION PERSONNEL.



WATER VALVE SHUTOFF PLAN
G-16
VALVES REQUIRED FOR SHUTOFF: "22" AND "11"



VICINITY MAP
SCALE: 1" = 750'±
G-16

GENERAL NOTES:

1. 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-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 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. CONTRACTOR SHALL COORDINATE WITH THE WATER SYSTEM 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. THE WATER SYSTEM DIVISION PHONE NUMBER IS 857-8200.
11. WITHIN FIVE (5) DAYS AFTER RECEIPT OF CONTRACTOR'S SHUTOFF REQUEST, TRIAL SHUTOFFS WILL BE CONDUCTED. CITY TO FURNISH LABOR AND APPURTENANCES NECESSARY TO VERIFY COMPLETENESS OF SHUTOFFS.
12. THE CONTRACTOR SHALL HAVE ALL FITTINGS, MATERIALS AND EQUIPMENT ON SITE PRIOR TO VALVE SHUTOFF. ALL EXCAVATION SHALL BE COMPLETE EXCEPT AS NECESSARY TO MAINTAIN SAFE SYSTEM OPERATION WHILE UNDER PRESSURE.
13. THE CONTRACTOR SHALL PROVIDE ALL RESTRAINTS AND THRUST BLOCKS NECESSARY TO EFFECT ALL NECESSARY SHUTOFFS AND CONNECTIONS.
14. AT THE TIME OF WATER SHUTOFF APPLICATION, THE CONTRACTOR SHALL REQUEST THAT WATER SYSTEMS DIVISION NOTIFY ALL AFFECTED PROPERTY OWNERS AT LEAST TWENTY-FOUR (24) HOURS IN ADVANCE OF THE RESPECTIVE SHUTOFFS.
15. 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.
16. FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION CO-ORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION CO-ORDINATION 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.
17. 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.
18. 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.
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.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	ALDRICH LAND SURVEYING	0/03/04

BENCH MARKS
NMSHC BRASS CAP STAMPED "1-25-20" LOCATED 0.50 MILES SOUTH-WEST OF THE INTERSECTION OF MONTANO ROAD N.W. AND PAN AMERICAN FREEWAY (I-25 WEST FRONTAGE ROAD) 45 FEET FROM THE CENTERLINE OF THE WEST FRONTAGE ROAD ON THE RIGHT.
ELEVATION = 5079.46 FEET (NGVD 1929)

AS BUILT INFORMATION
CONTRACTOR TT-C
WORK STAKED BY ~~NOT REQUIRED~~ DATE 08/04
INSPECTED/ACCEPTED BY JMA
FIELD LOCATION BY JMA DATE 08/04
DRAWINGS CORRECTED BY JMA DATE 08/04

MICRO-FILM INFORMATION
RECORDED BY DATE
COA Inspector: R. Rutledge

NO.	REMARKS / Revisions	DATE	DESIGN
			Designed By G.M.
			Drawn By S.G.H.
			Checked By G.M.

Date 03-04
Date 03-04
Date 03-04

2004.003.2

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
1			08/04				

ENGINEERS STAMP & SIGNATURE

J. GRAEME MEANS NEW MEXICO 13676 REGISTERED PROFESSIONAL ENGINEER
04/05/04

APPROVALS	ENGINEER	DATE
DRC Chairman		4-19-04
Transportation		4/05/04
Water/Wastewater		4/05/04
Hydrology		4/5/04
C.I.P.		
Const. Mngmt.		
Const. Coord.		4-19-04

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER
DATE: 11/1/04

APPROVED FOR CONSTRUCTION
6-11-04
City Engineer Date

City Project No. 735881

SHEET 1 OF 1

JEFF MORTENSEN & ASSOCIATES, INC.
6010-B MIDWAY PARK BLVD. N.E.
ALBUQUERQUE NEW MEXICO 87109
ENGINEERS SURVEYORS (505) 345-4250
FAX: 505 345-4254 ESTABLISHED 1977

File Path: E:\WORK\PROJECTS\2004\2004003\DWG\2004003P1L2.DWG
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Plot Date: 03-31-2004
Plot Time: 2:25 pm

SCANNED BY MEGA METRO