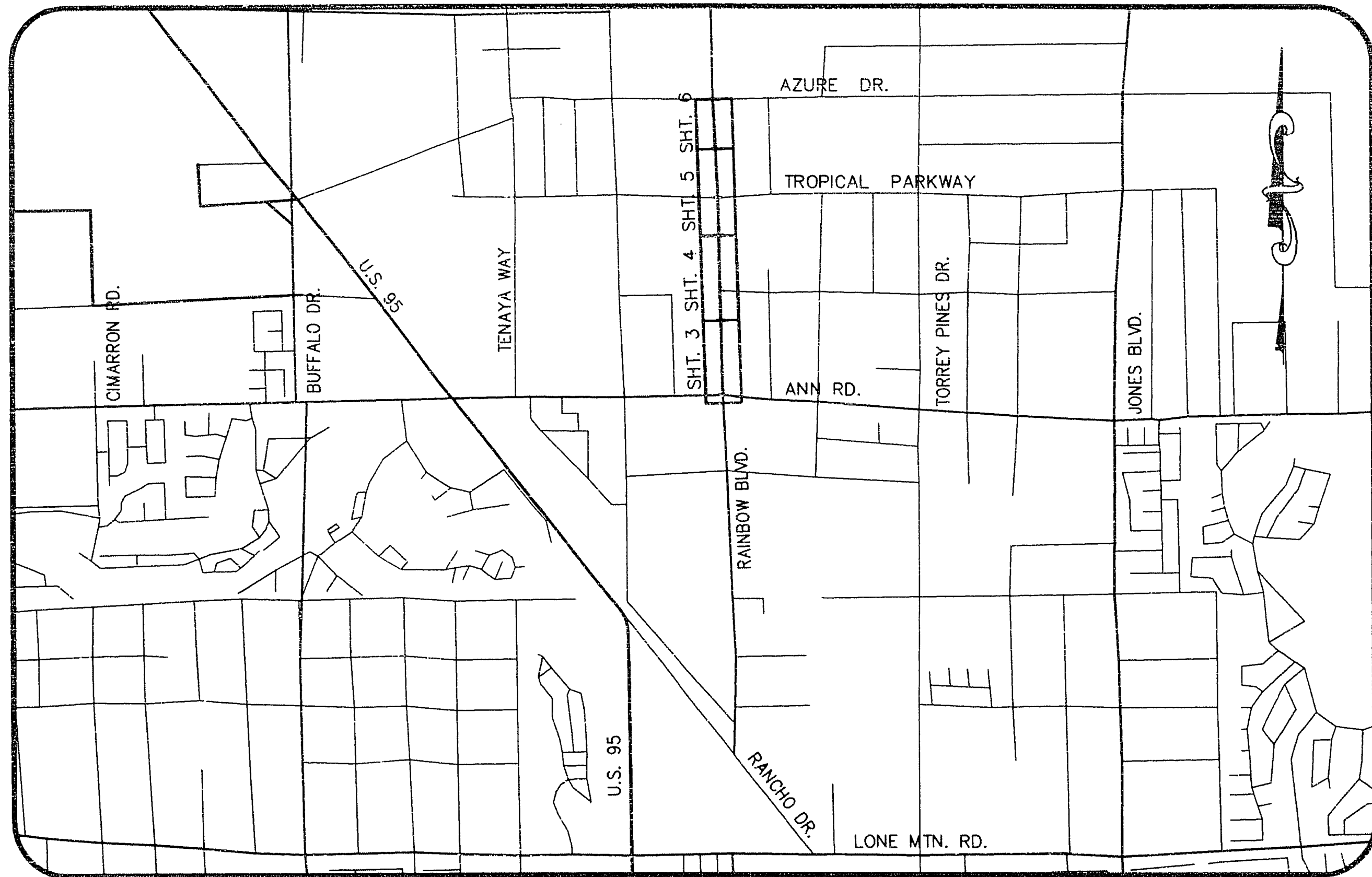


LEGEND

----- 8" W -----	EXISTING WATER LINE (SIZE VARIES)
----- 4" GAS -----	EXISTING GAS LINE (SIZE VARIES)
----- 21" S -----	EXISTING SAN. SEWER LINE (SIZE VARIES)
----- UG ELEC -----	EXISTING UNDERGROUND ELECTRIC LINE(S)
----- 10- 3 1/2 TEL -----	EXISTING UNDERGROUND TELEPHONE CONDUIT(S) (SIZE VARIES)
----- EX. 60" SD -----	EXISTING STORM DRAIN (SIZE VARIES)
----- TR.C. -----	EXISTING TRAFFIC CONTROL CONDUIT
-----	EXISTING RIGHT-OF-WAY LINE
Y	EXISTING FIRE HYDRANT
X	EXISTING STREET LIGHT
o	EXISTING TRAFFIC OR PEDESTRIAN LIGHT
M	EXISTING WATER VALVE
-----	EXISTING MANHOLE ON UTILITY LINE
o	EXISTING POWER/TELEPHONE POLE
1943-19	EXISTING SURVEY CONTROL POINT w/ ELEVATION
=====	WATER VALVE IN NEW WATER LINE
=====	REDUCER IN NEW WATER LINE
=====	WATER LINE
• M	ACCESS MANHOLE
---C---	CATHODIC PROTECTION TEST STATION
---B---	BLOW-OFF
---A---	COMBINATION AIR/VACUUM RELIEF ASSEMBLY
□ MB	MAIL BOX
⊞	WATER METER

SHEET INDEX MAP



SHEET INDEX

30-5-129

1. COVER SHEET
2. GENERAL NOTES, LEGEND & ABBREVIATIONS
3. PLAN & PROFILE - STA. 0+03.50 TO STA. 10+50.00
4. PLAN & PROFILE - STA. 10+50.00 TO STA. 20+00.00
5. PLAN & PROFILE - STA. 20+00.00 TO STA. 30+00.00
6. PLAN & PROFILE - STA. 30+00.00 TO STA. 35+40.00
7. VALVE VAULT DETAILS
8. MISCELLANEOUS DETAILS AND STEEL PIPE DETAILS
9. PIPE CONNECTION & ACCESS MANHOLE DETAILS
10. CATHODIC PROTECTION DETAILS

OVERSIZING DATA

OVERSIZED NO. OVA2 - 101097
PHASE I
STA. 0+03.50 TO STA. 23+80.83 - 36" OVERSIZED FROM 12"
OVERSIZED NO. OVA2 - 101437
PHASE II
STA. 23+80.83 TO STA. 30+48.91 - 36" OVERSIZED FROM 12"
STA. 30+48.91 TO STA. 35+40.00 - 36" BOLSTERING PIPELINE

ABBREVIATIONS

AC	ASPHALTIC CONCRETE	LVVWD	LAS VEGAS VALLEY WATER DISTRICT
@	AT	MH	MANHOLE
ACP	ASBESTOS CEMENT PIPE	MLCP	MORTAR LINED AND COATED STEEL PIPE
AVE.	AVENUE	M.J.	MECHANICAL JOINT
BC	BACK OF CURB	MIN.	MINIMUM
BLVD.	BOULEVARD	N	NORTH
BO	BLOW-OFF	NDOT	NEVADA DEPARTMENT OF TRANSPORTATION
C	CENTERLINE	PAVE	PAVEMENT
CL	CLASS	PE	POLYETHYLENE OR PLAIN END
C&G	CURB AND GUTTER	PSI	POUNDS PER SQUARE INCH
CLV	CITY OF LAS VEGAS	PVC	POLYVINYL CHLORIDE
COMB	COMBINATION	RCP	REINFORCED CONCRETE PIPE
CONC	CONCRETE	RCB	REINFORCED CONCRETE BOX
DIP	DUCTILE IRON PIPE	RD.	ROAD
DI	DROP INLET	RT.	RIGHT
DR	DRIVE	R/W	RIGHT-OF-WAY
D/W	DRIVEWAY	S	SLOPE or SOUTH
E	EAST	SHT.	SHEET
EXIST.	EXISTING	STD.	STANDARD
EA.	EACH	STA.	STATION
EL	ELEVATION	STL.	STEEL
FLG	FLANGE	UG	UNDERGROUND
FH	FIRE HYDRANT	VCP	VITRIFIED CLAY PIPE
FT.	FOOT	VERT.	VERTICAL
HORIZ.	HORIZONTAL	W	WEST
INV	INVERT	WM	WATER METER
LF	LINEAR FOOT	w/	WITH
LN	LANE		
LT.	LEFT		

Call before you Dig

1-800-227-2600

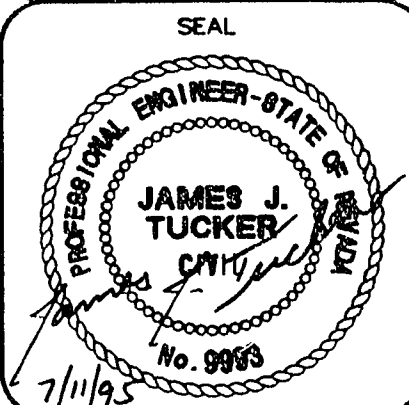
CONTRACT NO. 727

GENERAL NOTES

- 1.) ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; "THE UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".
- 2.) THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES, THE CITY OF LAS VEGAS, NEVADA DEPARTMENT OF TRANSPORTATION, CLARK COUNTY AND "CALL BEFORE YOU DIG" 1-800-227-2600 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
- 3.) LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM INFORMATION RECEIVED FROM THE APPLICABLE UTILITY COMPANIES. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES OR STRUCTURES NOT SHOWN, OR NOT IN THE LOCATION SHOWN ON THE DRAWING. EXISTING GAS AND SEWER LATERALS HAVE NOT BEEN SHOWN ON THE DRAWINGS.
- 4.) THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES, AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS, SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER OR OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
- 5.) ALL BARRICADING AND TEMPORARY TRAFFIC CONTROL DEVICES OR METHODS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST ISSUES OF "WORK ZONE TRAFFIC CONTROL HANDBOOK", PUBLISHED BY THE STATE OF NEVADA, DEPARTMENT OF TRANSPORTATION, AND THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION, EXCEPT AS OTHERWISE PROVIDED IN THE CONTRACT SPECIFICATIONS OR REQUIRED BY THE ENGINEER AND APPROVED BY CITY OF LAS VEGAS AND / OR CLARK COUNTY PUBLIC WORKS DEPARTMENTS.
- 6.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERTICAL ADJUSTMENT OF ALL WATER VALVE BOXES TO THE EXISTING FINISH GRADES.
- 7.) PIPELINE STATIONING IS BASED ON HORIZONTAL DISTANCE ALONG THE CENTERLINE OF THE PIPE.
- 7.) PIPELINE STATIONING IS BASED ON HORIZONTAL DISTANCE ALONG THE CENTERLINE OF THE PIPE.
- 8.) CONCRETE ENCASUREMENT CONSTRUCTION TO CONFORM TO CLARK COUNTY SANITATION DISTRICT STANDARD 2.2.21 AND CLARK COUNTY UNIFORM STANDARD DRAWING NUMBER 505.
- 9.) THE LVVWD STANDARD PLATES THAT ARE MADE A PART OF THESE DRAWINGS ARE INCLUDED IN THE CONTRACT VOLUME FOR THE WORK AND ARE A PART OF THESE DRAWINGS AS IF ATTACHED HERETO.
- 10.) BENCHMARK:
1LV90-34E4 - 9/4" REBAR 50'± WEST AND 5'± NORTH OF THE INTERSECTION OF RAINBOW BLVD. AND WELCOME LANE.
ELEVATION = 2319.05 (NATIONAL GEODETIC VERTICAL DATUM OF 1929)
- 11.) BASIS OF BEARINGS:
THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 27, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, COUNTY OF CLARK, STATE OF NEVADA, ALSO BEING THE CENTERLINE OF TROPICAL PARKWAY, BEARING N 87°19'35" W, AS SHOWN ON THE MAP ON FILE IN THE OFFICE OF THE COUNTY RECORDER, SAID COUNTY, IN FILE 76 OF PARCEL MAPS AT PAGE 82.
- 12.) COORDINATE BASIS:
NEVADA COORDINATE SYSTEM OF 1983, EAST ZONE (NORTH AMERICAN DATUM OF 1983).
STATE PLANE COORDINATE CONVERSION FACTORS (M = METERS)
MEAN RADIUS OF CURVATURE = 6,371,662.064 M
MEAN GEOD HEIGHT = -27.5 M
MEAN SURFACE ELEVATION = 710.0 M
MAXIMUM ELEVATION = 719.4 M
MINIMUM ELEVATION = 700.2 M
MEAN ELEVATION FACTOR = 0.99989296
MEAN SCALE FACTOR = 0.99991187
COMBINED FACTOR = 0.99980485
MEAN CONVERGENCE = 00° 11' 51"
TO CONVERT A NEVADA COORDINATE SYSTEM DISTANCE TO A SURFACE DISTANCE, MULTIPLY BY 1.00019519
1 METER = 3.28083333 FEET (U.S. SURVEY FOOT)
- 13.) CONTRACTOR TO NOTIFY OWNERS OF PROPERTY ADJACENT TO THE PIPELINE A MINIMUM OF 2 (TWO) DAYS PRIOR TO ANY CONSTRUCTION ACTIVITIES THAT COULD AFFECT ACCESS TO THEIR PROPERTY. THE CONTRACTOR SHALL MAINTAIN INGRESS AND EGRESS TO AND FROM ALL OCCUPIED PROPERTIES AND BUSINESSES ADJACENT TO THE WORK, ALSO SEE SECTION 1031 OF THE SPECIAL CONDITIONS OF THE SPECIFICATIONS.
- 14.) ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE LVVWD AND CLV.
- 15.) PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
- 16.) THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.550.
- 17.) THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCES WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD OR UNDERGROUND POWER, GAS, AND/OR OTHER UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COSTS AND LIABILITY IN CONNECTION THEREWITH.

GENERAL NOTES, LEGEND & ABBREVIATIONS

RAINBOW BLVD. 2538 ZONE PIPELINE
PHASE I AND PHASE II



WO NO.	4508-W
BY	WBM,DJB
DATE	7/10/95
SCALE	HORIZ. NONE VERT.
SHEET	2 OF 10 SHEETS

565-272

N0727002.TIF