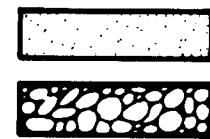


• L E G E N D •

**MATERIALS**

CONCRETE

RIP · RAP



**LINES**

SUBDIVISION BOUNDARY

PROPERTY LINE (PLAN)

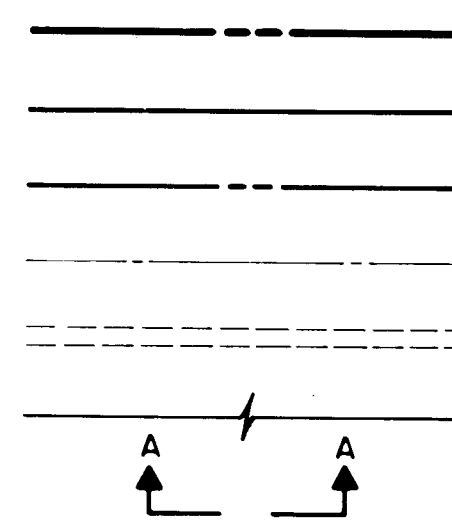
PROPERTY LINE (SECTION)

CENTERLINE

EASEMENT LINE

MATCH LINE

SECTION CUT LINE



**EARTHWORK**

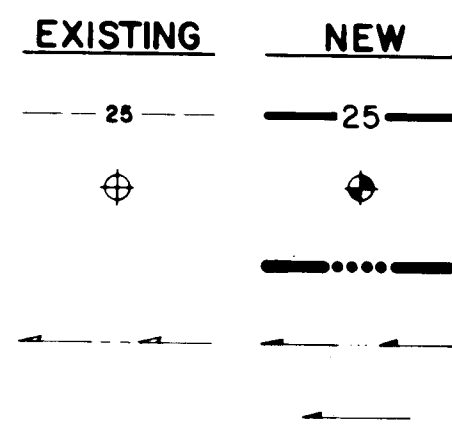
CONTOUR LINE

SPOT ELEVATION

PROJECT / PHASE BOUNDARY

SWALE

DIRECTION OF FLOW



**MISCELLANEOUS UTILITIES**

GAS LINE

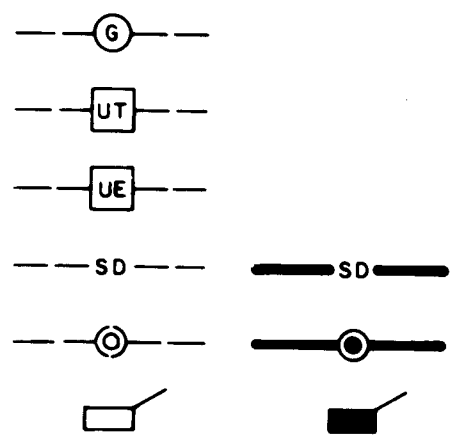
UNDERGROUND TELEPHONE

UNDERGROUND ELECTRICAL

STORM DRAIN

STORM DRAIN MANHOLE

STORM DRAIN INLET



**SANITARY SEWER**

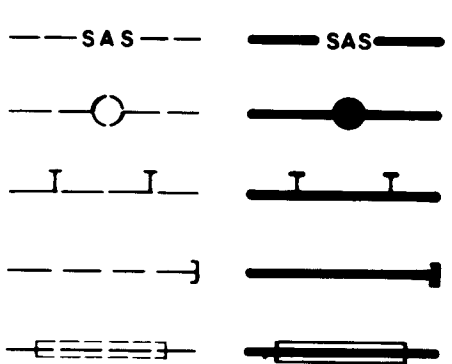
SANITARY SEWER LINE

SANITARY SEWER MANHOLE

SAS SERVICE CONNECTIONS

SAS CAP OR PLUG

ENCASEMENT



**WATER**

WATER LINE

WATER SERVICE CONNECTIONS

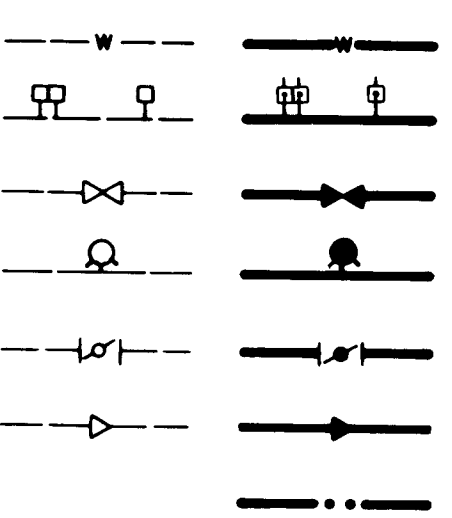
GATE VALVE

FIRE HYDRANT

BUTTERFLY VALVE

REDUCER

WATER PRESSURE ZONE BOUNDARY



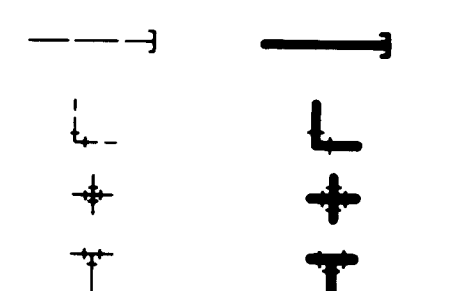
**WATER FITTINGS**

CAPS AND PLUGS

ELBOW

CROSS

TEE



**MISCELLANEOUS**

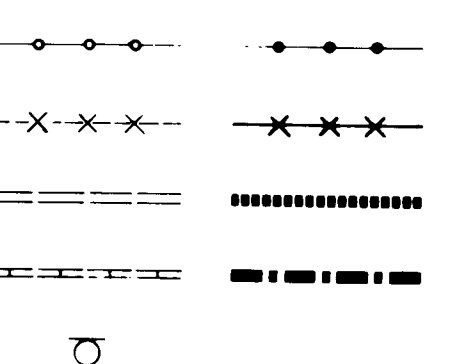
CHAINLINK FENCE

FIELD FENCE

COMMON YARD WALL

RETAINING WALL

POWER OR TELEPHONE POLE



# CONSTRUCTION PLANS FOR LOUISIANA PLACE WATERLINE EXTENSION

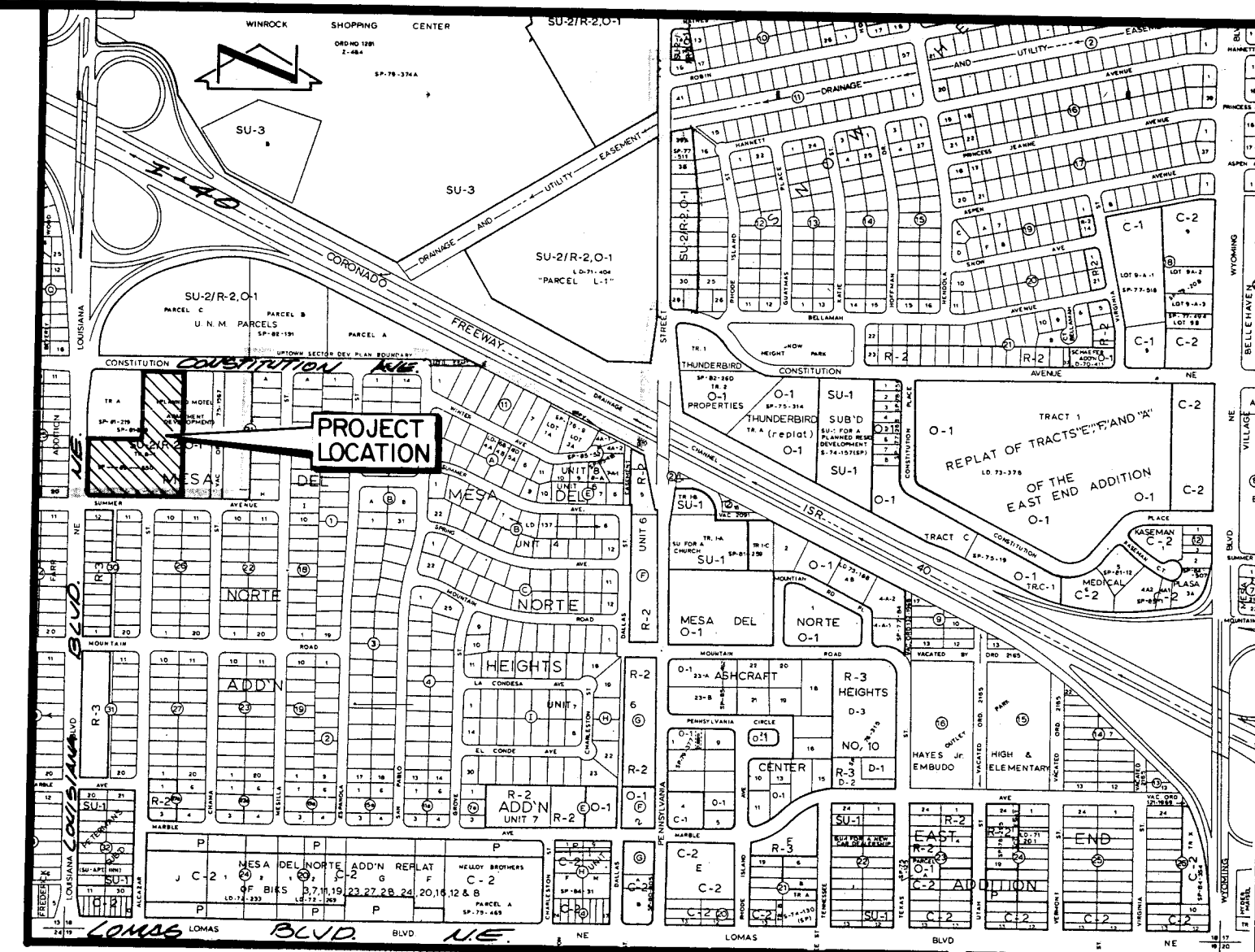
ALBUQUERQUE, NEW MEXICO

JUNE, 1988

**SHEET NO.**

**INDEX OF DRAWINGS**

|   |                                                                           |
|---|---------------------------------------------------------------------------|
| 1 | COVER SHEET, INDEX OF DRAWINGS, VICINITY MAP, GENERAL NOTES, LEGEND       |
| 2 | FINAL PLAT                                                                |
| 3 | GRADING AND DRAINAGE PLAN                                                 |
| 4 | UTILITY SITE PLAN                                                         |
| 5 | LINE 'A' STA 9+40+ TO STA 14+27.9<br>WATERLINE EXTENSION PLAN AND PROFILE |
| 6 | LINE 'B' STA 9+60+ TO STA 15+60<br>WATERLINE EXTENSION PLAN AND PROFILE   |
| 7 | VALVE SHUT-OFF PLAN/TRAFFIC CONTROL DETAILS                               |



**VICINITY MAP**

SCALE: 1" = 800'

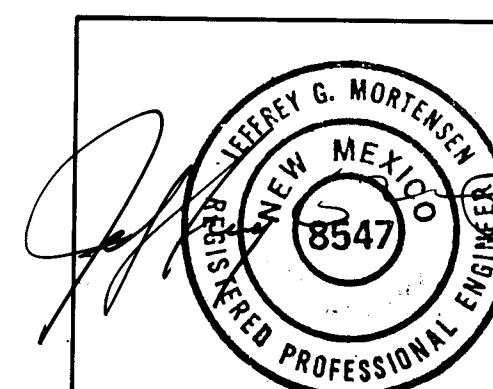
**GENERAL NOTES:**

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.
2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, 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 UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES, 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. THE CONTRACTOR MUST SUBMIT A CONSTRUCTION SIGNING AND BARRICADING PLAN TO TRAFFIC ENGINEERING TO RECEIVE A BARRICADING PERMIT 48 HOURS PRIOR TO CONSTRUCTION.
8. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
9. BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
10. TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
11. SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
12. IF CURB IS DEEPENED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
13. ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
14. CONTRACTOR SHALL COORDINATE WITH THE WATER SYSTEM DIVISION FOR THE EXECUTION OF THE VALVE SHUT OFF PLAN, NOT LESS THAN TWO (2) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT THE EXISTING PUBLIC WATER UTILITIES.

26 35610189

| REV | SHEETS | CITY ENGINEER | DATE | USER DEPARTMENT | DATE | USER DEPARTMENT | DATE |
|-----|--------|---------------|------|-----------------|------|-----------------|------|
|     |        |               |      |                 |      |                 |      |

**APPROVAL OF REVISIONS**



**Jma**  
JEFF MORTENSEN & ASSOCIATES, INC.  
811 DALLAS NE, ALBUQUERQUE, NM 87102  
ENGINEERS - TELEPHONE (505) 265-5611

**APPROVED FOR  
CONSTRUCTION**

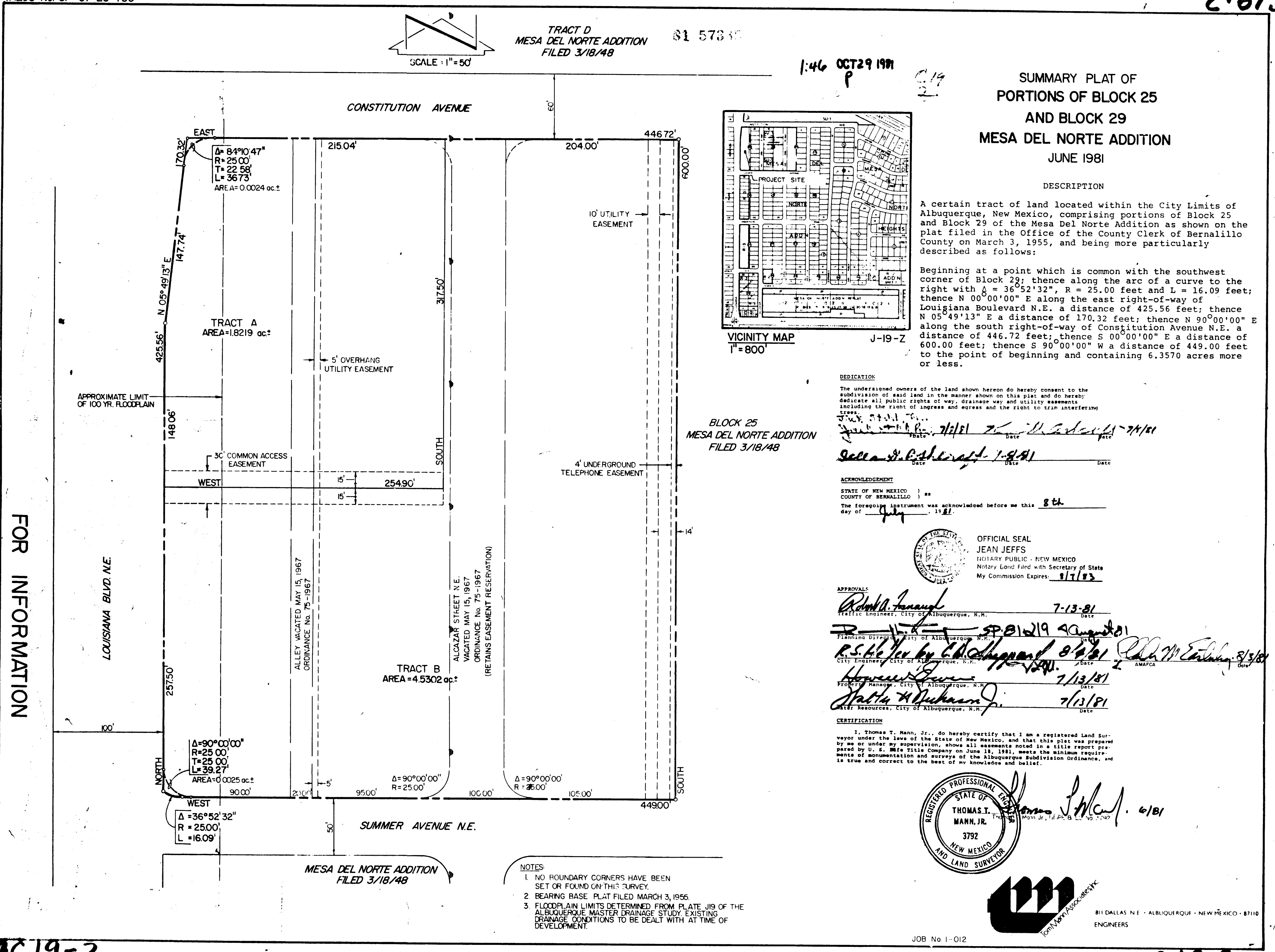
*John J. Mortensen*  
C.E.

3561

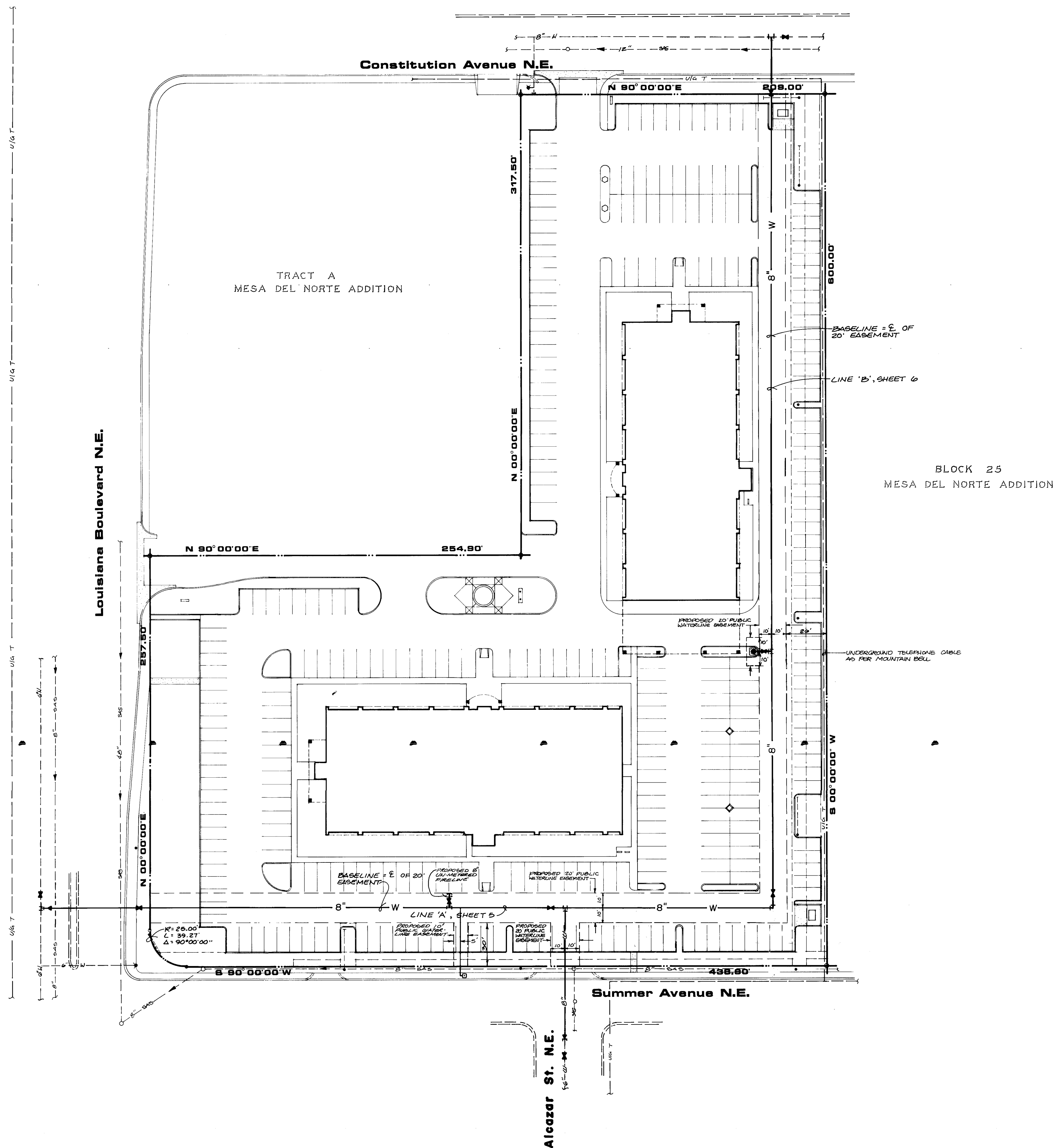
SHEET 1 OF 7

|    |    |    |    |    |   |   |   |   |    |    |    |
|----|----|----|----|----|---|---|---|---|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 26 | 35 | 61 | 02 | 89 |   |   |   |   |    |    |    |

2.615







1. ALL STATIONING IS BASED ON WATERLINE BASEMENT CENTERLINE UNLESS INDICATED OTHERWISE.
2. THE CONTRACTOR SHALL FURNISH ELECTRONIC MARKER DISKS (EMD) ON ALL SEWER AND WATER SERVICE STUBS, CAPS AND PLUGS.
3. WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE WATER RESOURCES DIVISION.
4. WATER LINE SHALL HAVE A MINIMUM COVER OF 4'0" (TOP OF PROPOSED GRADE TO TOP OF PIPE).
5. ALL PIPE SHALL BE FURNISHED WITH CLASS "C" BEDDING UNLESS OTHERWISE NOTED. ALL TRENCH BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 90% OF OPTIMUM, AS PER ASTM D 1557.
6. WHERE SEWER AND WATER LINES CROSS, IF VERTICAL CLEARANCE DOES NOT EXCEED 1'6", THE SEWER LINE SHALL BE CONCRETE ENCASED 10' EACH SIDE OF WATER LINE.
7. FIRE HYDRANTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD DRAWING 2340.
8. WATER SERVICE TO BUILDING 2 AS SHOWN ON SHEET 3 SHALL BE INSTALLED BY ROUTINE PLUMBING CONNECTION (NOT PART OF THIS CONTRACT).
9. 2" WATER SERVICE SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD DRAWING 2363.

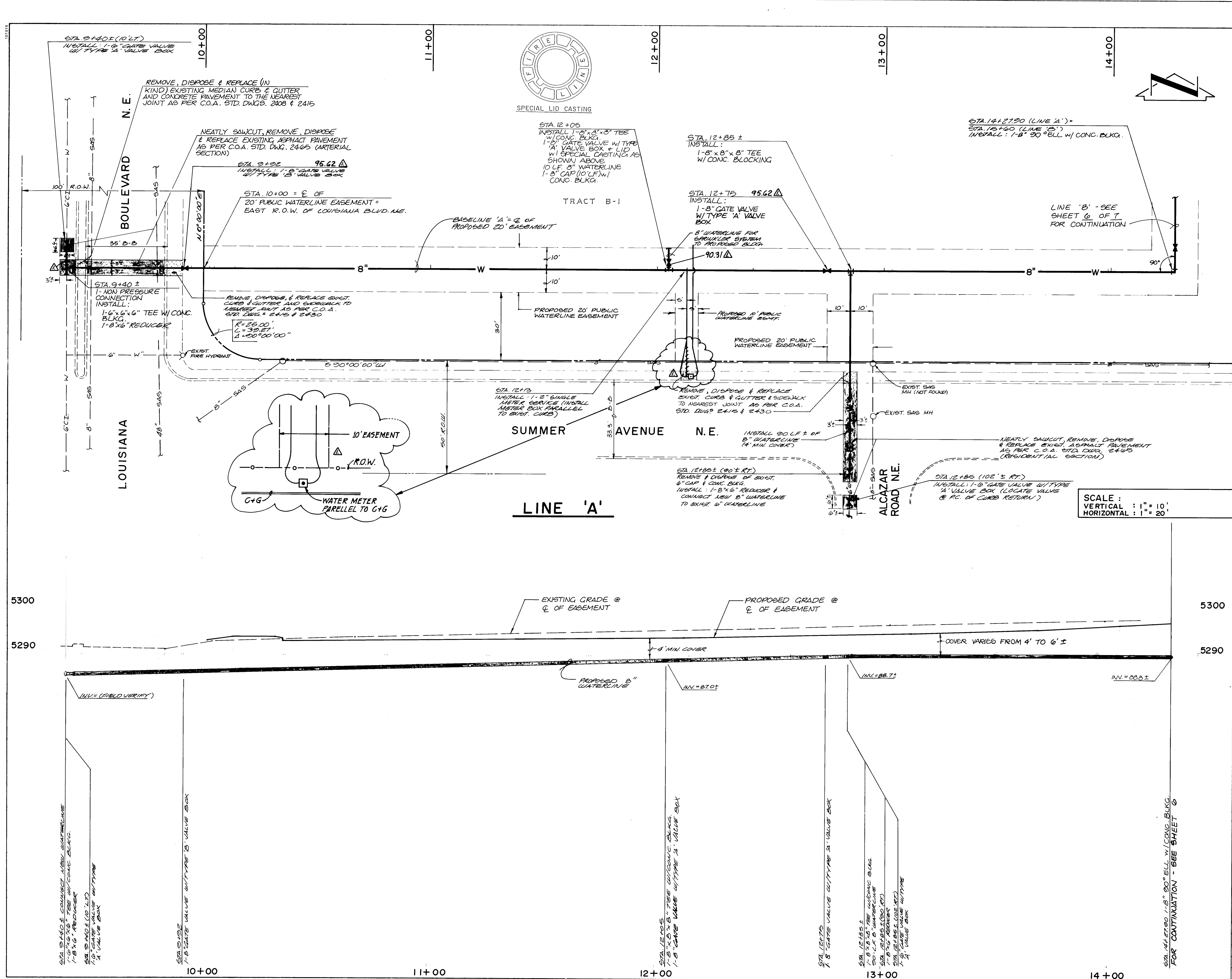
[illegible]

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: LOUISIANA PLACE  
WATERLINE SITE PLAN

| APPROVALS    | ENGINEER           | DATE    | APPROVALS | ENGINEER | DATE |
|--------------|--------------------|---------|-----------|----------|------|
| D.R.C. Chair | <i>[Signature]</i> | 7/25/88 |           |          |      |
| Trans. Dev.  |                    | 7/25/88 |           |          |      |
| Utility Dev. | <i>[Signature]</i> | 7/26/88 |           |          |      |
| Hydrology    | <i>[Signature]</i> | 7/26/88 |           |          |      |

|             |      |         |      |       |   |    |   |
|-------------|------|---------|------|-------|---|----|---|
| DRAWING NO. | 3561 | MAP NO. | J-19 | SHEET | 4 | OF | 7 |
|-------------|------|---------|------|-------|---|----|---|



WATERLINE NOTES:

- ALL STATIONING IS BASED ON WATERLINE EASEMENT CENTERLINE UNLESS INDICATED OTHERWISE.
- THE CONTRACTOR SHALL FURNISH ELECTRONIC MARKER DISKS (EMD) ON ALL SEWER AND WATER SERVICE STUBS, CAPS AND PLUGS.
- WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE WATER RESOURCES DIVISION.
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- 2" WATER SERVICE SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD DRAWING 2363.

| AS BUILT INFORMATION |         | BENCH MARKS |         | SURVEY INFORMATION |         | ENGINEER'S SEAL |         |
|----------------------|---------|-------------|---------|--------------------|---------|-----------------|---------|
| NO.                  | DATE    | NO.         | DATE    | NO.                | DATE    | NO.             | DATE    |
| 1                    | 7/25/88 | 1           | 7/25/88 | 1                  | 7/25/88 | 1               | 7/25/88 |
| 2                    | 7/25/88 | 2           | 7/25/88 | 2                  | 7/25/88 | 2               | 7/25/88 |
| 3                    | 7/25/88 | 3           | 7/25/88 | 3                  | 7/25/88 | 3               | 7/25/88 |
| 4                    | 7/25/88 | 4           | 7/25/88 | 4                  | 7/25/88 | 4               | 7/25/88 |
| 5                    | 7/25/88 | 5           | 7/25/88 | 5                  | 7/25/88 | 5               | 7/25/88 |
| 6                    | 7/25/88 | 6           | 7/25/88 | 6                  | 7/25/88 | 6               | 7/25/88 |
| 7                    | 7/25/88 | 7           | 7/25/88 | 7                  | 7/25/88 | 7               | 7/25/88 |
| 8                    | 7/25/88 | 8           | 7/25/88 | 8                  | 7/25/88 | 8               | 7/25/88 |
| 9                    | 7/25/88 | 9           | 7/25/88 | 9                  | 7/25/88 | 9               | 7/25/88 |
| 10                   | 7/25/88 | 10          | 7/25/88 | 10                 | 7/25/88 | 10              | 7/25/88 |

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

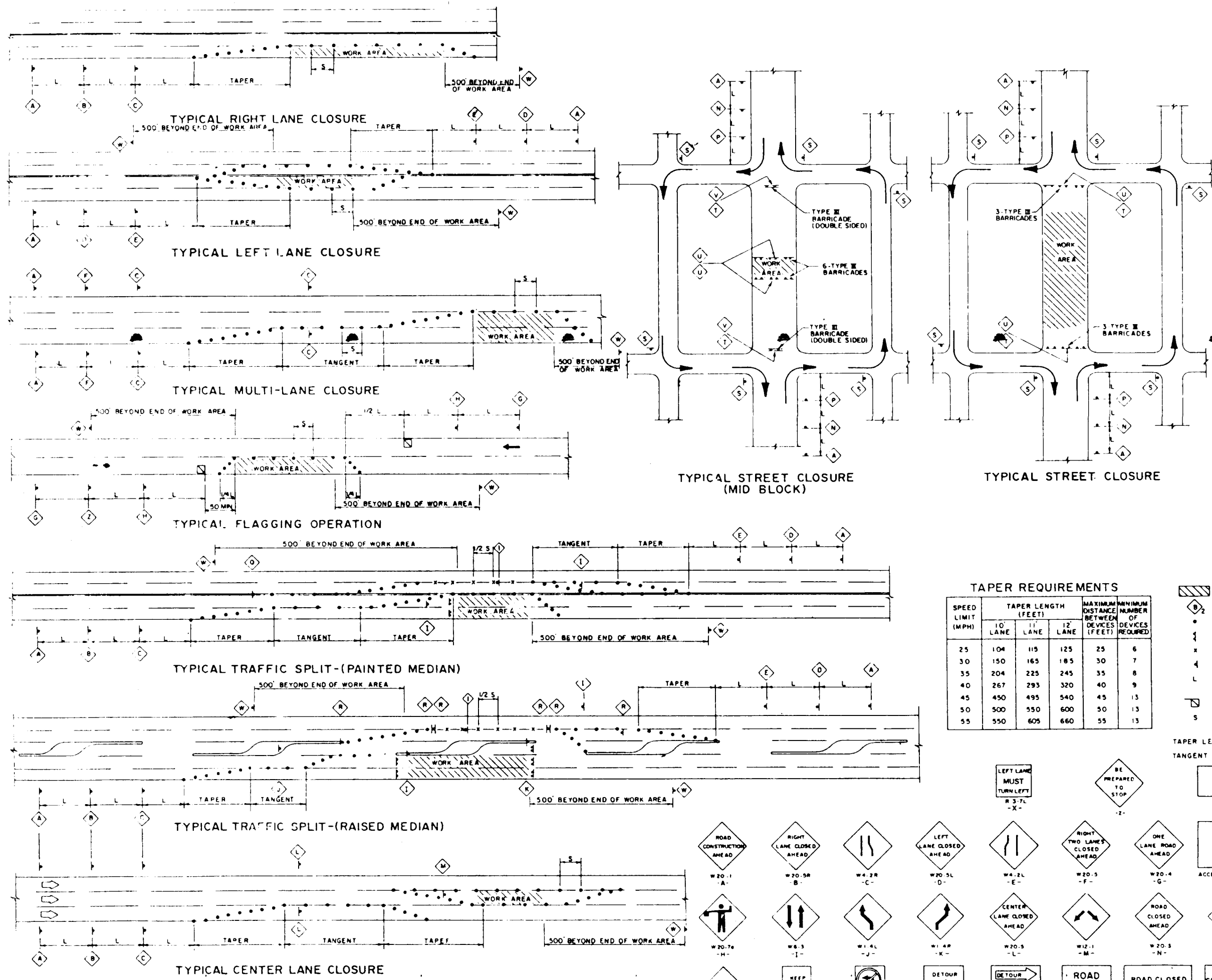
TITLE: WATERLINE EXTENSION PLAN & PROFILE  
LINE 'A'  
STA. 9 + 40.5 TO STA. 14 + 27.90

| APPROVALS    | ENGINEER | DATE    | APPROVALS | ENGINEER | DATE |
|--------------|----------|---------|-----------|----------|------|
| DR. C. Chair |          | 7/25/88 |           |          |      |
| Trans. Dev   |          |         |           |          |      |
| Utility Dev  |          |         |           |          |      |
| Hydrology    |          |         |           |          |      |

DESIGNED BY: L.P.U. DATE: 6-1988  
DRAWN BY: S.G.H. DATE: 6-1988  
CHECKED BY: J.G.M. DATE: 6-1988

DRAWING NO. 3561 MAP NO. J-19 SHEET 5 OF 7





| TAPER REQUIREMENTS |                     |        |        |                                         |
|--------------------|---------------------|--------|--------|-----------------------------------------|
| SPEED LIMIT (MPH)  | TAPER LENGTH (FEET) |        |        | MINIMUM DISTANCE BETWEEN DEVICES (FEET) |
|                    | 1 LANE              | 2 LANE | 3 LANE |                                         |
| 25                 | 104                 | 115    | 125    | 25                                      |
| 30                 | 150                 | 165    | 180    | 30                                      |
| 35                 | 204                 | 225    | 245    | 35                                      |
| 40                 | 267                 | 295    | 320    | 40                                      |
| 45                 | 330                 | 365    | 390    | 45                                      |
| 50                 | 400                 | 445    | 480    | 50                                      |
| 55                 | 470                 | 525    | 560    | 55                                      |

LEGEND

WORK AREA

TRAFFIC SIGN & QUANTITY USE THIS SHEET FOR DESIGNATION

BARRICADE - TYPE I, TYPE II, OR BARREL

BARRICADE - TYPE III

VERTICAL PANEL

WARNING SIGN

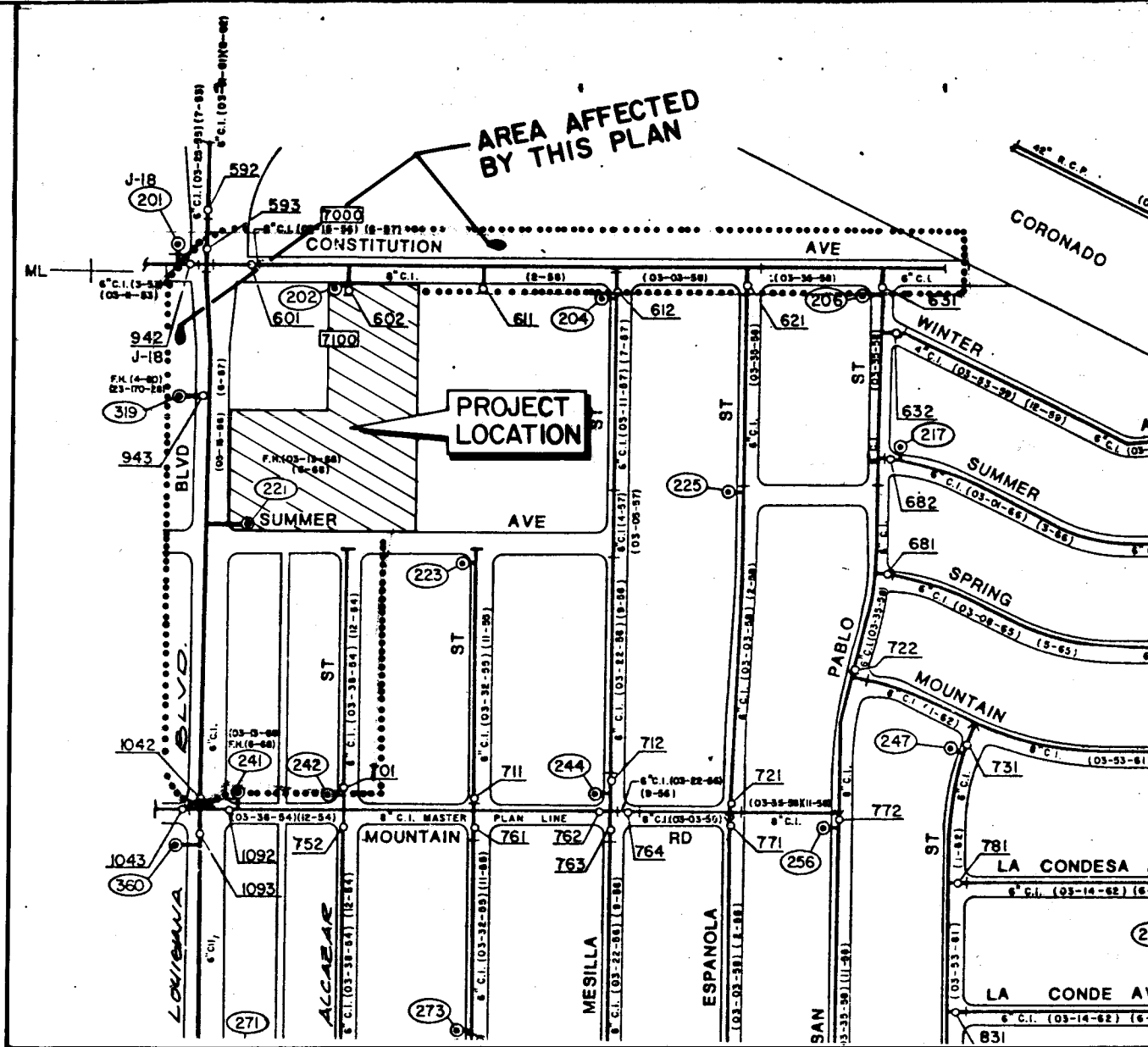
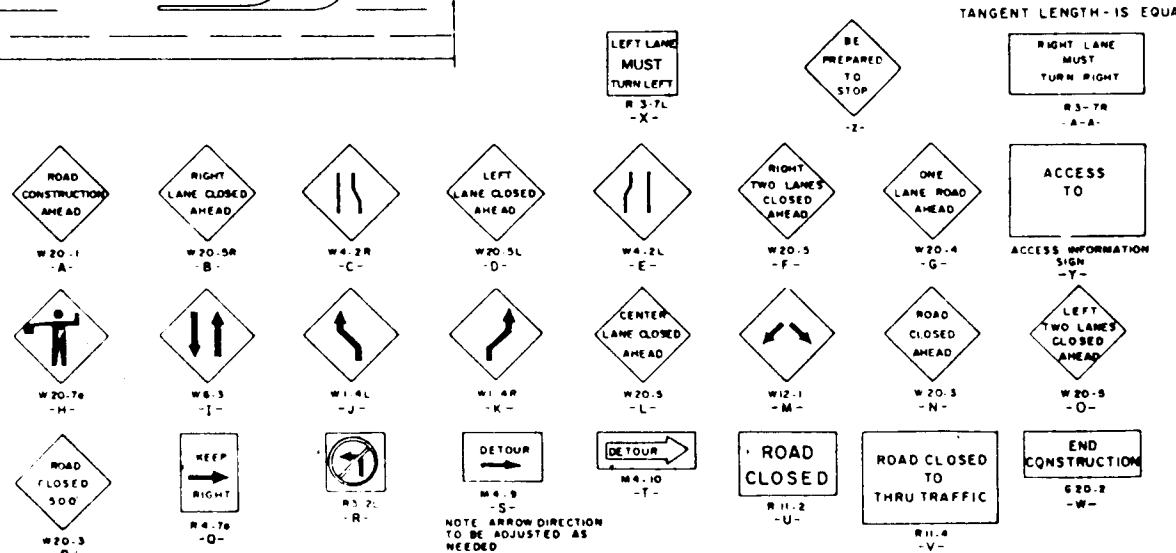
DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET

FLAGMAN POSITION

SACING BETWEEN BARRICADES - A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET

TAPER LENGTH - SEE CHART AT LEFT

TANGENT LENGTH - IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET



VALVE SHUT-OFF PLAN  
SCALE: 1" = 400'

J-19-S

- VALVE SHUT-OFF PLAN
- CLOSE VALVES 593, 601, 942 AND 1042 FOR LINE 'A' (LOUISIANA) CONNECTION.
  - CLOSE VALVES 601, 612, 621 AND 631 FOR LINE 'B' CONNECTION.
  - CLOSE VALVE 701 FOR LINE 'A' (ALCAZAR) CONNECTION.

| ENGINEER'S SEAL |  | BENCH MARKS                                                                                                                                                                                                                                                                               |  | SURVEY INFORMATION |  | AS BUILT INFORMATION |  |
|-----------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------|--|----------------------|--|
|                 |  | A.C.S. STATION 7+19.9, BEING A STANDARD A.C.S. BRASS TABLET STAMPED 7-JUN 1981. STATION IS LOCATED IN THE NE QUADRANT OF THE INTERSECTION OF LOUISIANA BLVD. N.E. AND CONSTITUTION AVE. N.E., SET FLUSH WITH THE GROUND 1.3' BEHIND THE BACK OF CURB. ELEVATION = 5287.07 FEET (M.S.L.D.) |  | FIELD NOTES        |  | CONTRACT INFORMATION |  |
|                 |  | BY                                                                                                                                                                                                                                                                                        |  | NO                 |  | DATE                 |  |
| REMARKS         |  | NO. DATE                                                                                                                                                                                                                                                                                  |  | DESIGNED BY L.P.U. |  | DATE 6-1988          |  |
| REVISIONS       |  | DESIGN                                                                                                                                                                                                                                                                                    |  | DRAWN BY C.V.M.    |  | DATE 6-1988          |  |
|                 |  |                                                                                                                                                                                                                                                                                           |  | CHECKED BY J.G.M.  |  | DATE 6-1988          |  |

1 2 3 4 5 6 7 8 9 10 11 12  
26 3561 07819

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: LOUISIANA PLACE  
VALVE SHUT-OFF PLAN / TRAFFIC CONTROL DETAILS

| APPROVALS    | ENGINEER           | DATE    | APPROVALS | ENGINEER | DATE |
|--------------|--------------------|---------|-----------|----------|------|
| D.R.C. Chair | <i>[Signature]</i> | 7/25/88 |           |          |      |
| Trans. Dev.  | "                  | "       |           |          |      |
| Utility Dev. | <i>[Signature]</i> | 7/20/88 |           |          |      |
| Hydrology    | <i>[Signature]</i> | 7/20/88 |           |          |      |

DRAWING NO. 3561

MAP NO. J-19

SHEET 7 OF 7