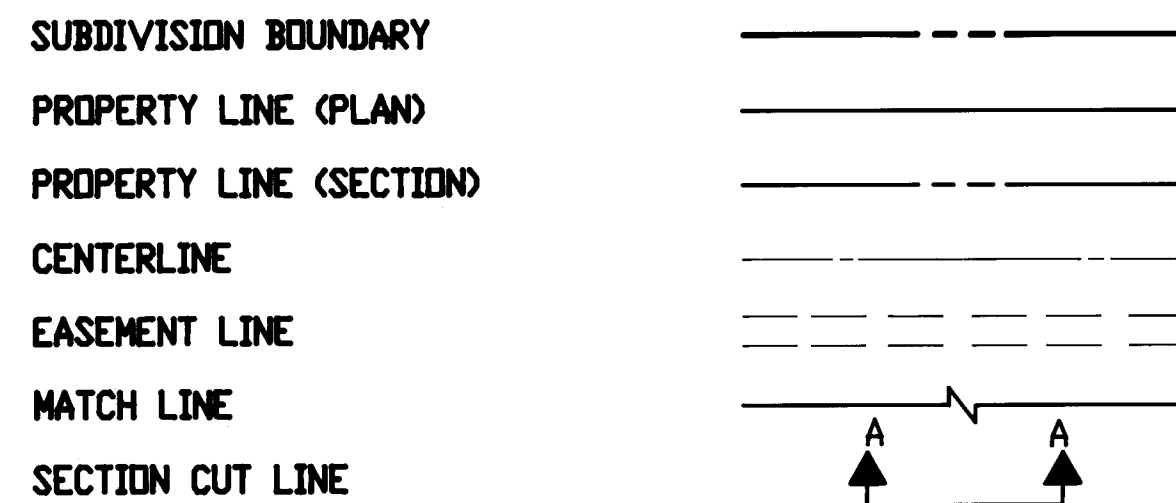


• L E G E N D •

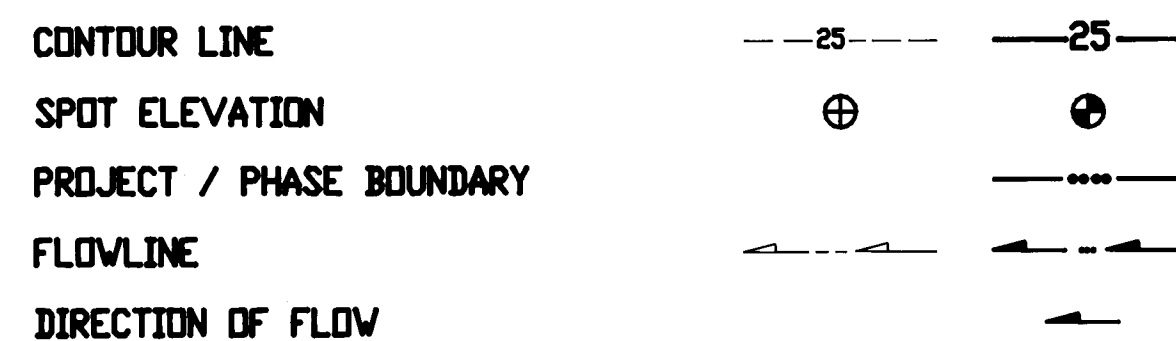
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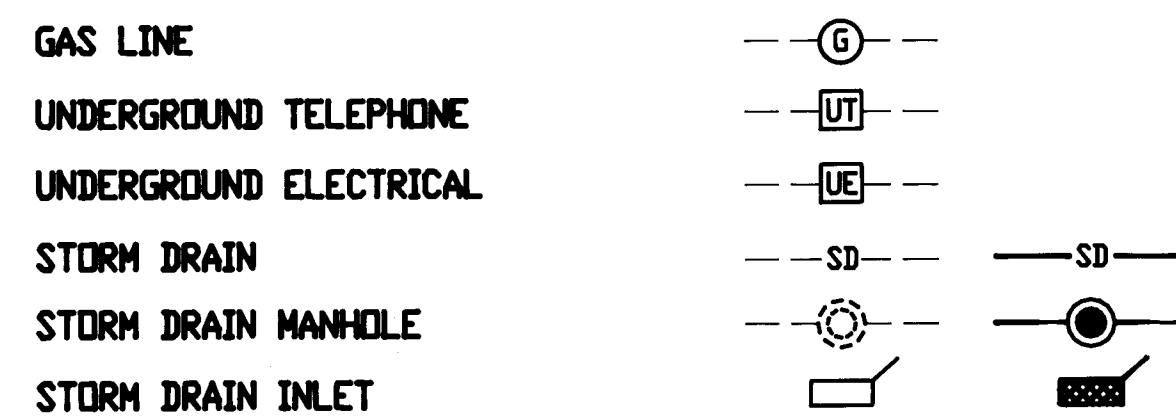
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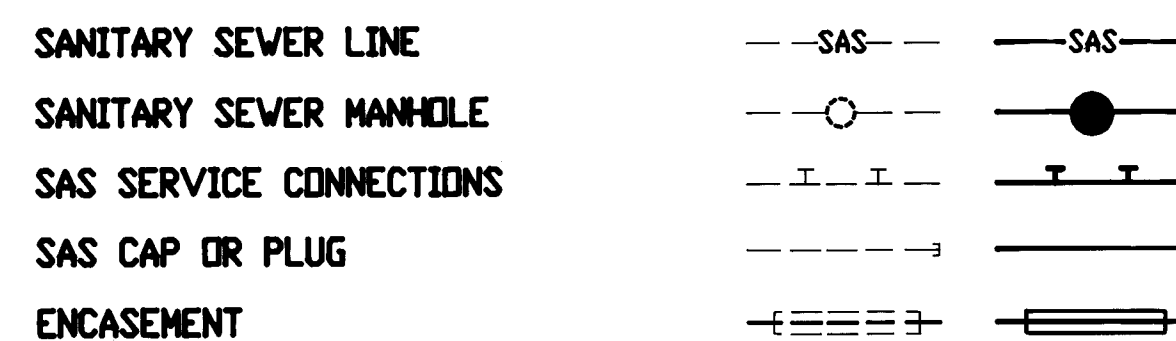
EARTHWORK



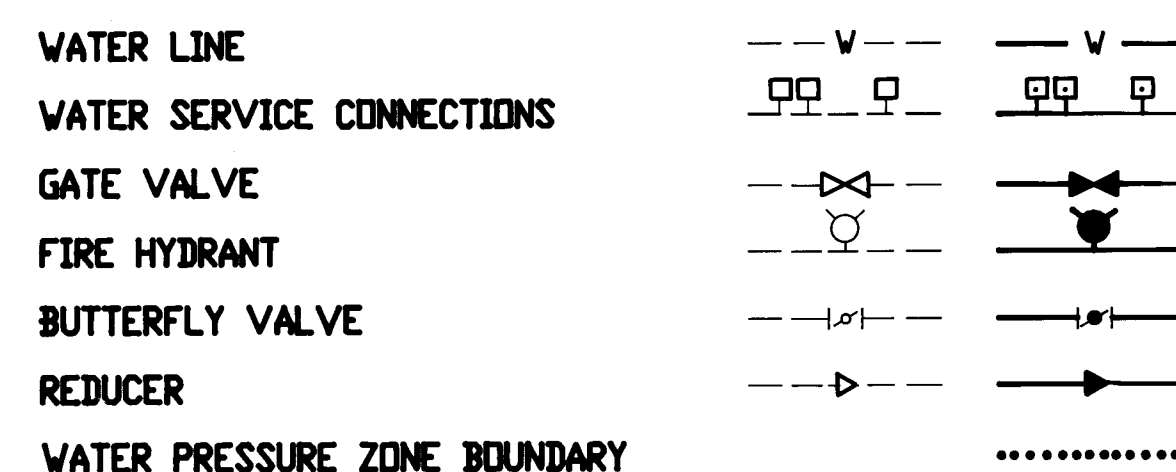
MISCELLANEOUS UTILITIES



SANITARY SEWER



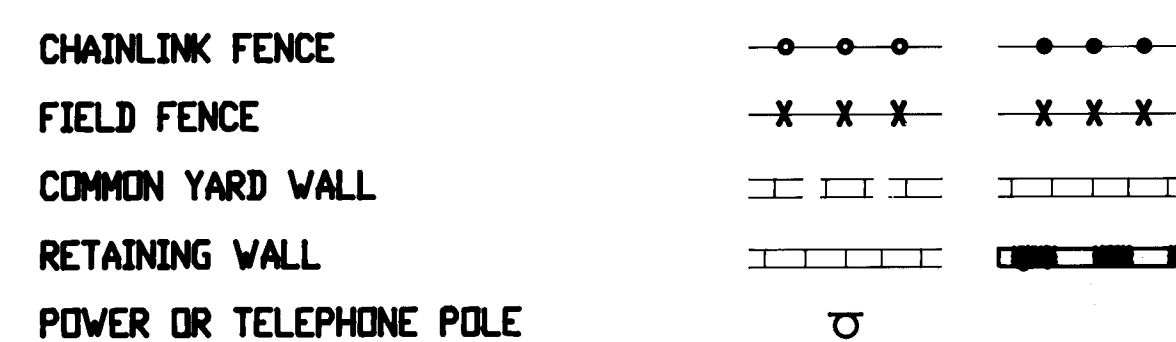
WATER



WATER FITTINGS



MISCELLANEOUS

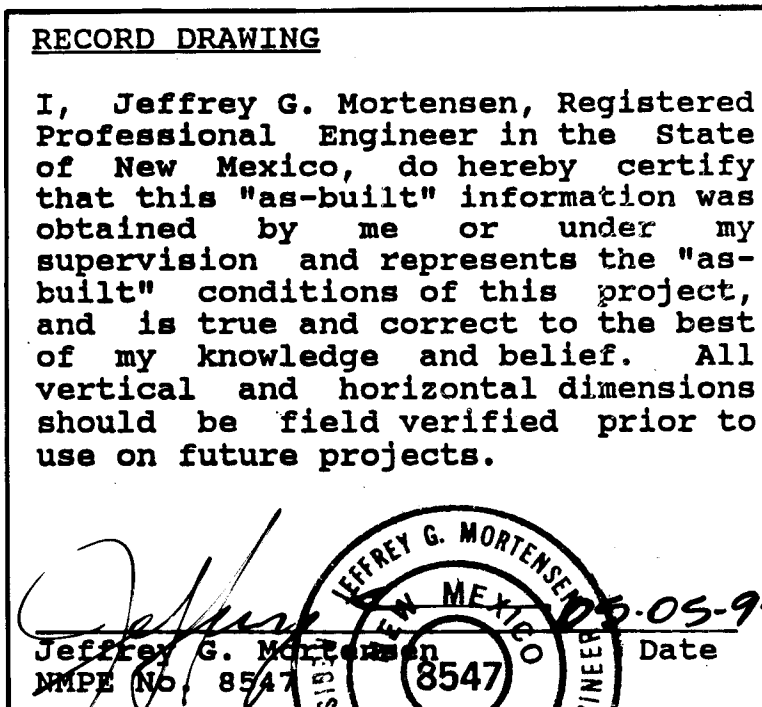


CONSTRUCTION PLANS  
for

COMANCHE BUSINESS PARK  
VASSAR DRIVE EXTENSION

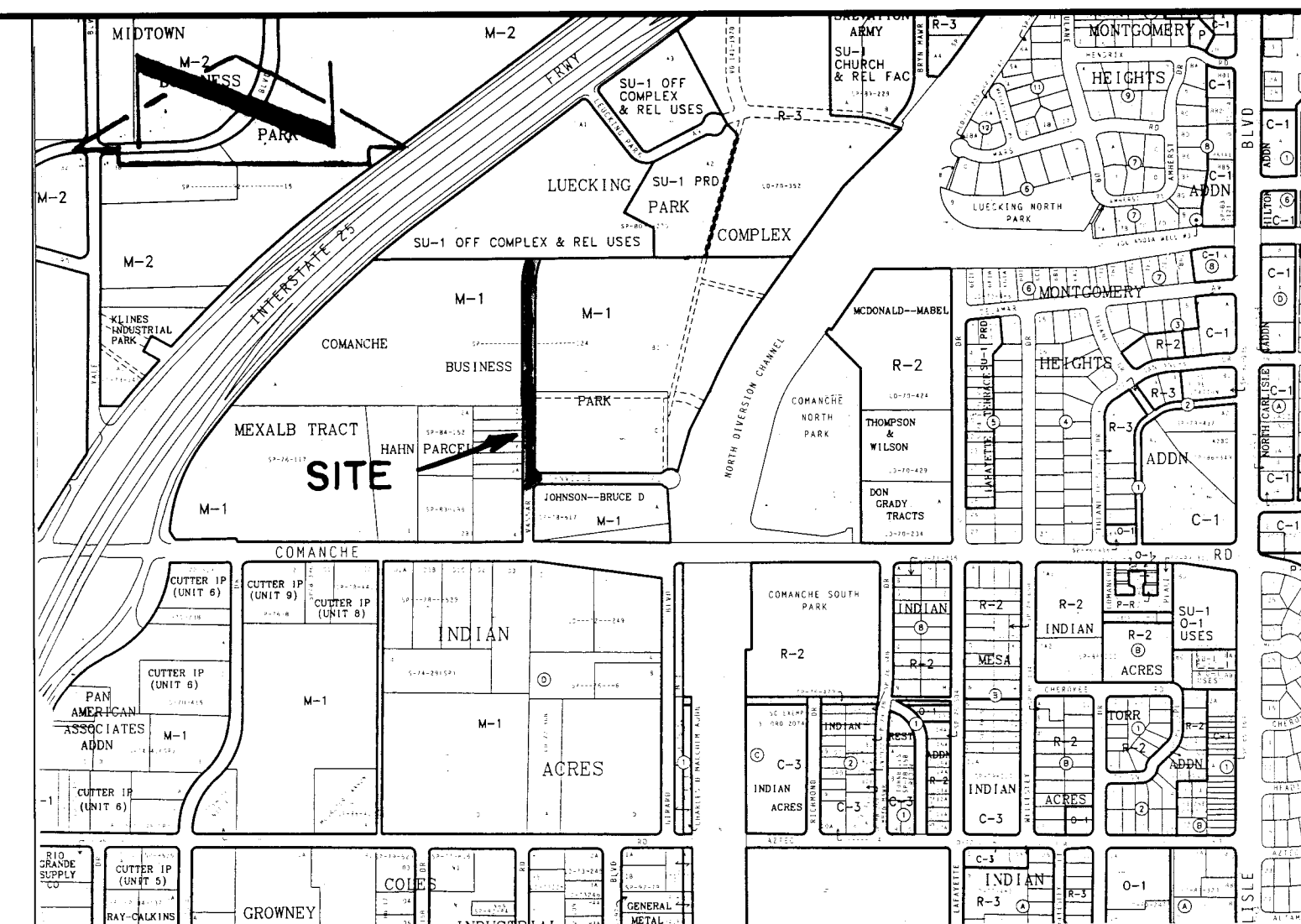
ALBUQUERQUE,  
NEW MEXICO  
JULY 1994

RECORD DRAWING



INDEX OF DRAWINGS

SHEET	DESCRIPTION
1	COVER SHEET, VICINITY MAP, GENERAL NOTES, LEGEND AND INDEX OF DRAWINGS
2	SUBDIVISION PLAT
3	REPLAT
4	PAVING AND STORM DRAINAGE SITE PLAN
5	PAVING AND STORM DRAINAGE IMPROVEMENTS PLAN & PROFILE - STA. 5+63.5 TO STA. 7+00.00
6	PAVING AND STORM DRAINAGE IMPROVEMENTS PLAN & PROFILE - STA. 7+00.00 TO STA. 11+60.00
7	PAVING IMPROVEMENTS PLAN & PROFILE - STA. 11+60.00 TO STA. 16+08.33
8	WATER & SANITARY SEWER SITE PLAN
9	WATER & SANITARY SEWER EXTENSIONS PLAN & PROFILE - STA. 5+63.5 TO STA. 7+00.00
10	WATER & SANITARY SEWER EXTENSIONS PLAN & PROFILE - STA. 7+00.00 TO STA. 11+60.00
11	WATER & SANITARY SEWER EXTENSIONS PLAN & PROFILE - STA. 11+60.00 TO STA. 16+10.00
12	SECTIONS & DETAILS
13	SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS
14	TYPICAL TRAFFIC CONTROL AND SIGNING EXAMPLES (REF. M.U.T.C.D.)
15	DEMOLITION PLAN



VICINITY MAP

SCALE: 1" = 750' (APPROX.)

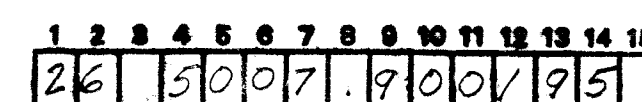
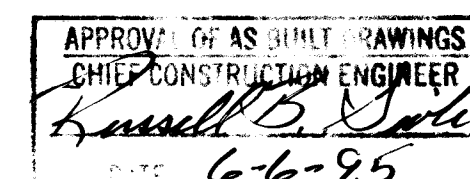
G - 16

GENERAL NOTES:

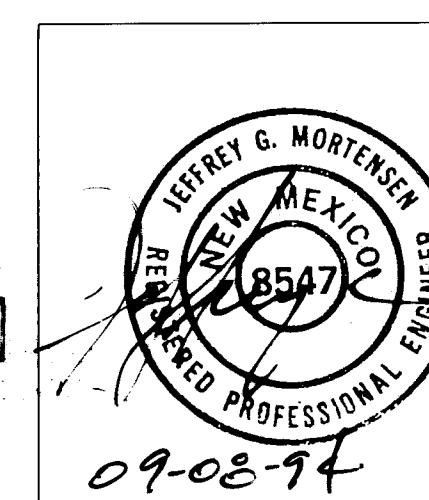
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS - PUBLIC WORKS CONSTRUCTION - 1986. (UPDATE NO.4)
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
- 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.
- 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.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.
- 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 DURING CONSTRUCTION BY THE PROJECT ENGINEER.
- SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- IF CURB IS DEPRESSED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
- ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- CONTRACTOR SHALL COORDINATE WITH THE WATER SYSTEM DIVISION FOR THE EXECUTION OF THE VALVE SHUT OFF PLAN, NOT LESS THAN THREE (3) 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 SPECIFICATION. THE WATER SYSTEM DIVISION PHONE NUMBER IS 857-8200.
- 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 TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE SPECIFICATIONS.
- THREE (3) 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 BARRICADE PERMIT FROM THE CONSTRUCTION CO-ORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. CONTRACTOR MUST REFER TO SECTION 19 OF THE STANDARD SPECIFICATION FOR TRAFFIC CONTROL.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED IN KIND BY CONTRACTOR TO LOCATION AND IN KIND AS EXISTING OR AS INDICATED BY THIS PLAN SET.
- CAUTION: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

1-15	3/95				
REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE

APPROVAL OF REVISIONS



900055



JEFF MORTENSEN & ASSOCIATES, INC.  
6000-B MIDWAY PARK BLVD. N.E.  
ALBUQUERQUE, N.M. 87109  
ENGINEERS & SURVEYORS (505) 945-4200

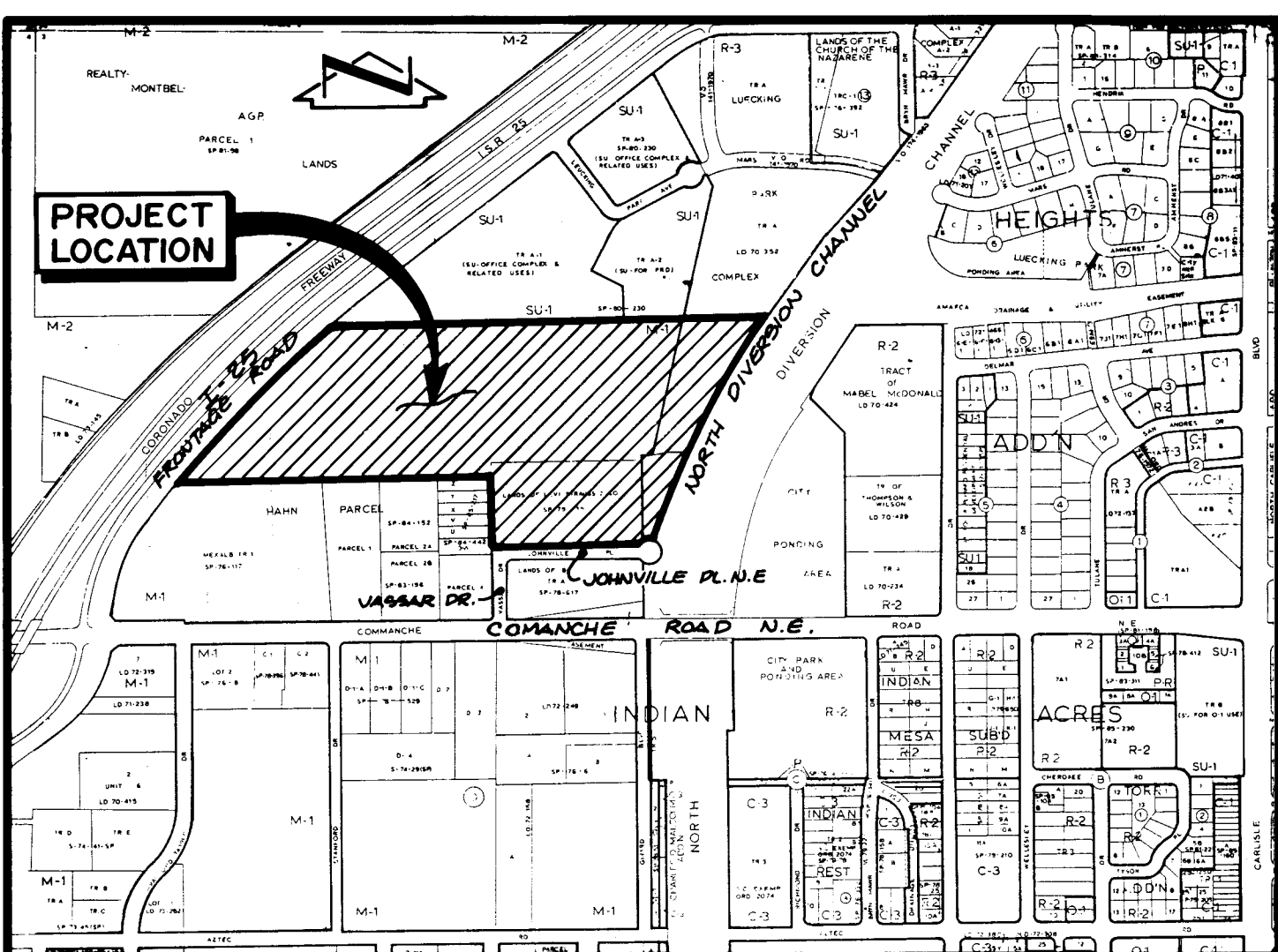
APPROVED FOR  
CONSTRUCTION

C.E.

PROJECT NO.

5007.90

SHEET 1 OF



VICINITY MAP

SCALE: 1" = 800'

G-16

## Notes:

1. A field survey was performed on 10-23-1988. Corners were found or set as shown.
2. 0.19 mi. full-width street created.
3. All distances are ground distances.
4. Site located within Section 03, T10N, R3E, N.M.P.M.
5. Bearings on Boundary are grid bearings.
6. The purpose of this plat is to dedicate the public right-of-way for Vassar Drive N.E. and establish Tracts A through D from the existing four parcels, plus grant the necessary easements as shown.
7. Bearings and distances shown in parenthesis are derived from record information.
8. This plat has been prepared pursuant to current resolutions and ordinances, where applicable, of the City of Albuquerque. However, be advised that approval(s) of this plat does not imply that City owned and operated water and sanitary sewer service is readily available for development, nor does it obligate the city to make these services available if and when development is desired. Further subdivision(s) of this property, if any, must comply with those resolutions, ordinances, and policies then in effect for any specific proposal. The plat herein approved does not represent any acceptance of, or concurrence with future subdivision or development proposals.
9. A blanket public drainage easement is hereby granted by this plat with the understanding that the specific alignment and location will be determined upon the development of any of the lots subdivided hereon, or the construction of Vassar Drive N.E. as dedicated hereon, whichever occurs first.
10. Location of the existing sanitary sewer line derived from Record drawings of the City of Albuquerque, New Mexico, Department of Public Works Field and Design Division, for "Sanitary Sewer Assessment District No. 4" dated 7-22-1959 and "Hahn Trunk Sewer" dated 4-10-59.

RECORD DRAWING

# CORRECTED PLAT OF COMANCHE BUSINESS PARK ALBUQUERQUE, NEW MEXICO JUNE, 1988

PLAT CORRECTED  
TO AMEND MISLABELED  
EASEMENT DISTANCE  
AND CENTERLINE BEARING  
OF VASSAR DRIVE N.E.

## DESCRIPTION

A certain tract of land located within the Corporate Limits of the City of Albuquerque, New Mexico, comprising Land of Levi Strauss and Company, as shown on the plat filed in the Office of the County Clerk of Bernalillo County, New Mexico on June 27, 1979, Book B16, Page 144, a portion of land situate in the NW 1/4 of Section 3, Township 10 N, Range 3 East, N.M.P.M., as conveyed by Warranty Deed filed July 8, 1981, Book D146-A, Pages 165-166, the NW 1/2 of the NW 1/4 of the SW 1/4 of the NE 1/4 of Section 3, Township 10 N, Range 3 East, N.M.P.M., as conveyed by warranty deed filed May 11, 1982, Book D162-A, Page 528, excepting therefrom that portion of property described in Warranty Deed filed November 1, 1966, Book D817, Page 218, and A.M.A.F.C.A. Parcel E.L. N-16-4, and N-16-7, as conveyed by Warranty Deed filed May 11, 1982, Book D162-A, Pages 529-530, and being more particularly described as follows:

Beginning at the northeast corner of the parcel herein described, being the southeast corner of Tract A Luecking Park Complex, as shown on the plat filed in the Office of the County Clerk of Bernalillo County, New Mexico, on December 8, 1970, Book C7, Page 176 and also being a point on the west right-of-way line of the A.M.A.F.C.A. North Diversion Channel; thence S 35°35'46" W a distance of 262.19 feet along said right-of-way line; thence along the arc of a curve to the left with DELTA = 12°09'47", R = 2089.86 feet, L = 443.65 feet, Chord Bearing = S 29°31'38" W, Chord Length = 442.81 feet along said right-of-way line; thence S 27°21'49" W a distance of 209.72 feet along said right-of-way line; thence S 16°48'17" W a distance of 201.21 feet along said right-of-way line to a point on the north right-of-way line of Johnville Place N.E.; thence along the arc of a curve to the left with DELTA = 89°59'31", R = 45.00 feet, L = 70.68 feet, Chord Bearing = N 8°59'11" W and Chord Length = 63.64 feet along said right-of-way line to a point of reverse curvature to the right with DELTA = 44°24'55", R = 25.00 feet and L = 19.38 feet, Chord Bearing = S 68°13'31" W and Chord Length = 18.90 feet along said right-of-way line; thence N 89°34'01" W a distance of 624.24 feet along said right-of-way line to the southwest corner of said Land of Levi Strauss and Company; thence N 00°27'59" E a distance of 305.21 feet; thence N 89°38'19" W a distance of 1344.45 feet to a point on the east right-of-way line of the I-25 Frontage Road; thence along the arc of a curve to the right with DELTA = 09°36'31", R = 5606.99 feet, L = 940.30 feet, Chord Bearing = N 45°10'46" E and Chord Length = 939.20 feet along said right-of-way line to the northwest corner of the parcel herein described, being the southwest corner of Tract A-1 Luecking Park Complex No. 2 and 3, as shown on the plat filed in the Office of the County Clerk of Bernalillo County, New Mexico on July 3, 1980, Book C17, Page 9; thence N 89°54'54" E a distance of 1906.56 feet to the point of beginning and containing 36.6189 acres more or less.

DEDICATION & FREE CONSENT  
The undersigned owners of the land shown hereon do hereby consent to the subdivision of said land in the manner shown on this plat and do hereby dedicate the public street right-of-way and grant easements as shown.

*Joan Shaffer*  
JOAN SHAFFER, VICE-PRESIDENT, ABQ DEVELOPMENT 11-21-88  
DATE

## ACKNOWLEDGEMENT

STATE OF NEW MEXICO )  
COUNTY OF BERNALILLO )



OFFICIAL SEAL  
CHARLES G. CALA, JR.  
NOTARY PUBLIC - STATE OF NEW MEXICO  
My Commission Expires 5-6-89

The foregoing instrument was acknowledged before me this  
21<sup>st</sup> day of November, 1988.

*Charles H. Haff*  
Notary Public

APPROVALS: DRB 08-414 5P-89-124

*Jack Cloud* 5-3-89  
Planning Director, City of Albuquerque, N.M. Date

*John J. Aguirre* 4-28-89  
Water Utilities, City of Albuquerque, N.M. Date

*John J. Aguirre* 11/22/88  
City Engineer, City of Albuquerque Date

*John J. Aguirre* 11/22/88  
A.M.A.F.C.A. Date

*David W. Harmon* 11/22/88  
Traffic Engineer, City of Albuquerque, N.M. Date

*John J. Aguirre* 11-22-88  
Parks and Recreation, City of Albuquerque, N.M. Date

*John J. Aguirre* 11/24/88  
Chief City Surveyor, City of Albuquerque, N.M. Date

*Rose Shuell* 11-21-88  
Property Manager, City of Albuquerque, N.M. Date

CERTIFICATION  
I, Gordon J. Douglas, a registered Professional Surveyor under the laws of the State of New Mexico, do hereby certify that this plat was prepared by me on under my supervision, shows all easements noted in an easement search prepared by TITLE USA.

meets the minimum requirements of monumentation and surveys of the Albuquerque Subdivision Ordinance, and is true and correct to the best of my knowledge and belief.

*Gordon J. Douglas* 11/21/88  
Gordon J. Douglas, N.M. S No. 6054 Date

2/6/90

## ACKNOWLEDGEMENT

STATE OF NEW MEXICO )  
COUNTY OF BERNALILLO )



OFFICIAL SEAL  
CHARLES G. CALA, JR.  
NOTARY PUBLIC - STATE OF NEW MEXICO  
My Commission Expires 5-6-89

The foregoing instrument was acknowledged before me on this  
21<sup>st</sup> day of November, 1988.

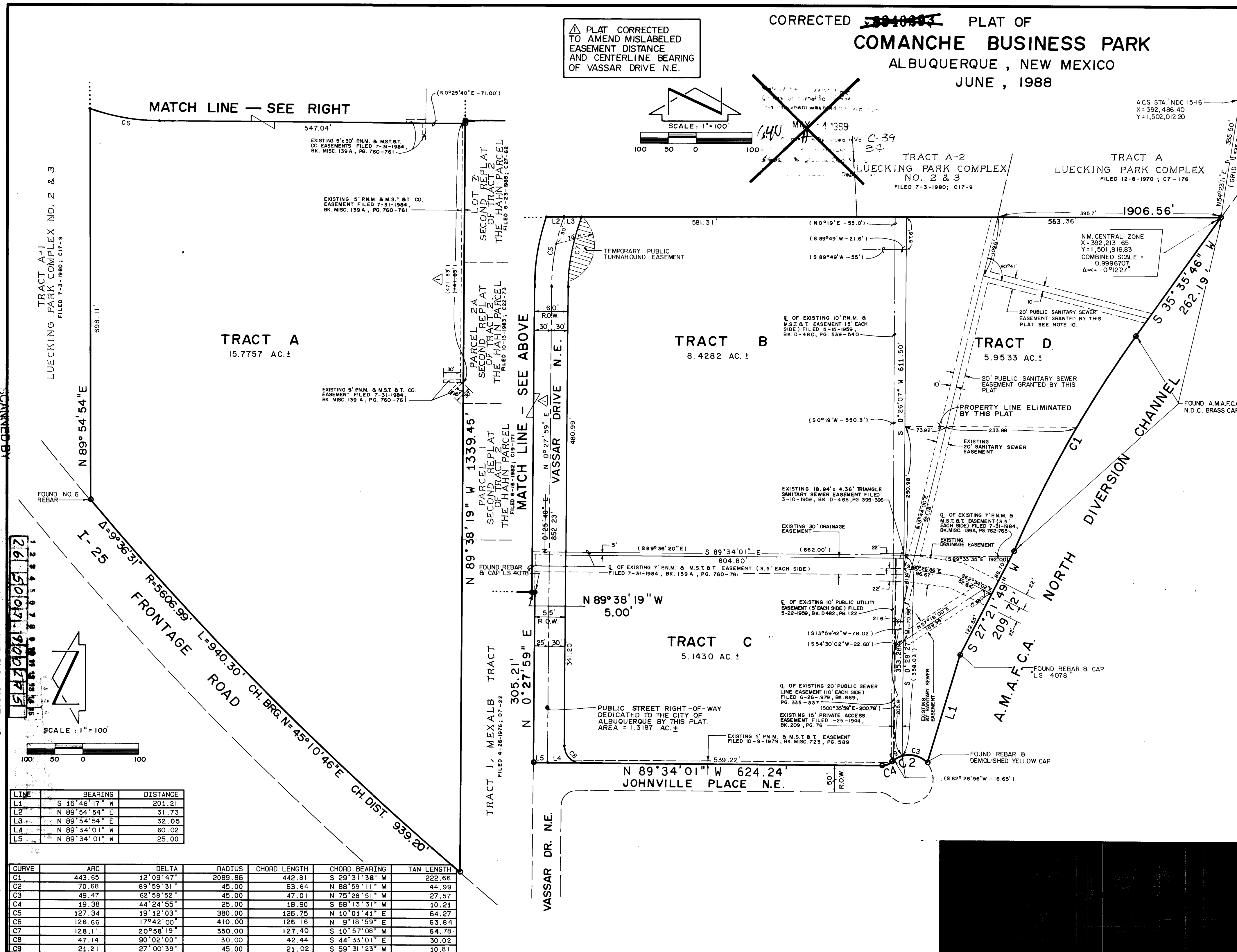
*Charles H. Haff*  
Notary Public



JEFF MORTENSEN & ASSOCIATES, INC.  
811 DALLAS, N.E. ALBUQUERQUE, NM 87110  
ENGINEERS & TELEPHONE (505) 265-3611

880471

SHEET 1 OF 2



LINE	BEARING	DISTANCE
L1	S 16°48'17" W	201.21
L2	N 89°54'54" E	31.73
L3	N 89°54'54" E	32.05
L4	N 89°34'01" W	60.02
L5	N 89°34'01" W	25.00

CURVE	ARC	DELTA	RADIUS	CHORD LENGTH	CHORD BEARING	TAN LENGTH
C1	443.65	12°09'47"	2089.86	442.81	S 29°31'38" W	222.66
C2	70.68	89°59'31"	45.00	63.64	N 88°59'11" W	44.99
C3	49.47	62°58'52"	45.00	47.01	N 75°28'51" W	27.57
C4	19.38	44°24'55"	25.00	19.90	S 68°13'31" W	10.21
C5	127.34	19°12'03"	380.00	126.75	N 10°01'41" E	64.27
C6	126.66	17°42'00"	410.00	126.16	N 9°18'59" E	63.84
C7	128.11	20°58'19"	350.00	127.40	S 10°57'08" W	64.78
C8	47.14	90°02'00"	30.00	42.44	S 44°33'01" E	30.02
C9	21.21	27°00'39"	45.00	21.02	S 59°31'23" W	10.81

SHEET 2 OF 2



93014024

PLAT OF  
TRACT B-1  
COMANCHE BUSINESS PARK  
ALBUQUERQUE, NEW MEXICO  
MAY, 1992

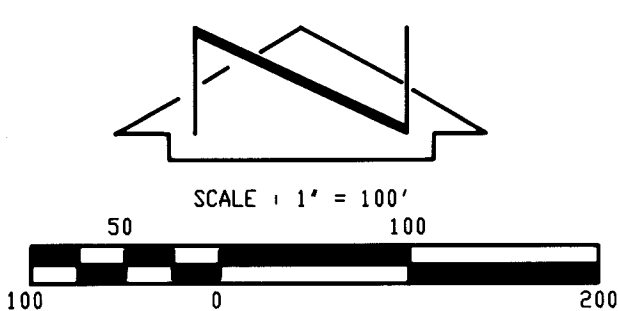
State of New Mexico } SS  
County of Bernalillo  
This instrument was filed for record on

FEB 10 1993  
ALBUQUERQUE, N.M. Recorded in Vol. 93-C  
of records of said County Folio 35

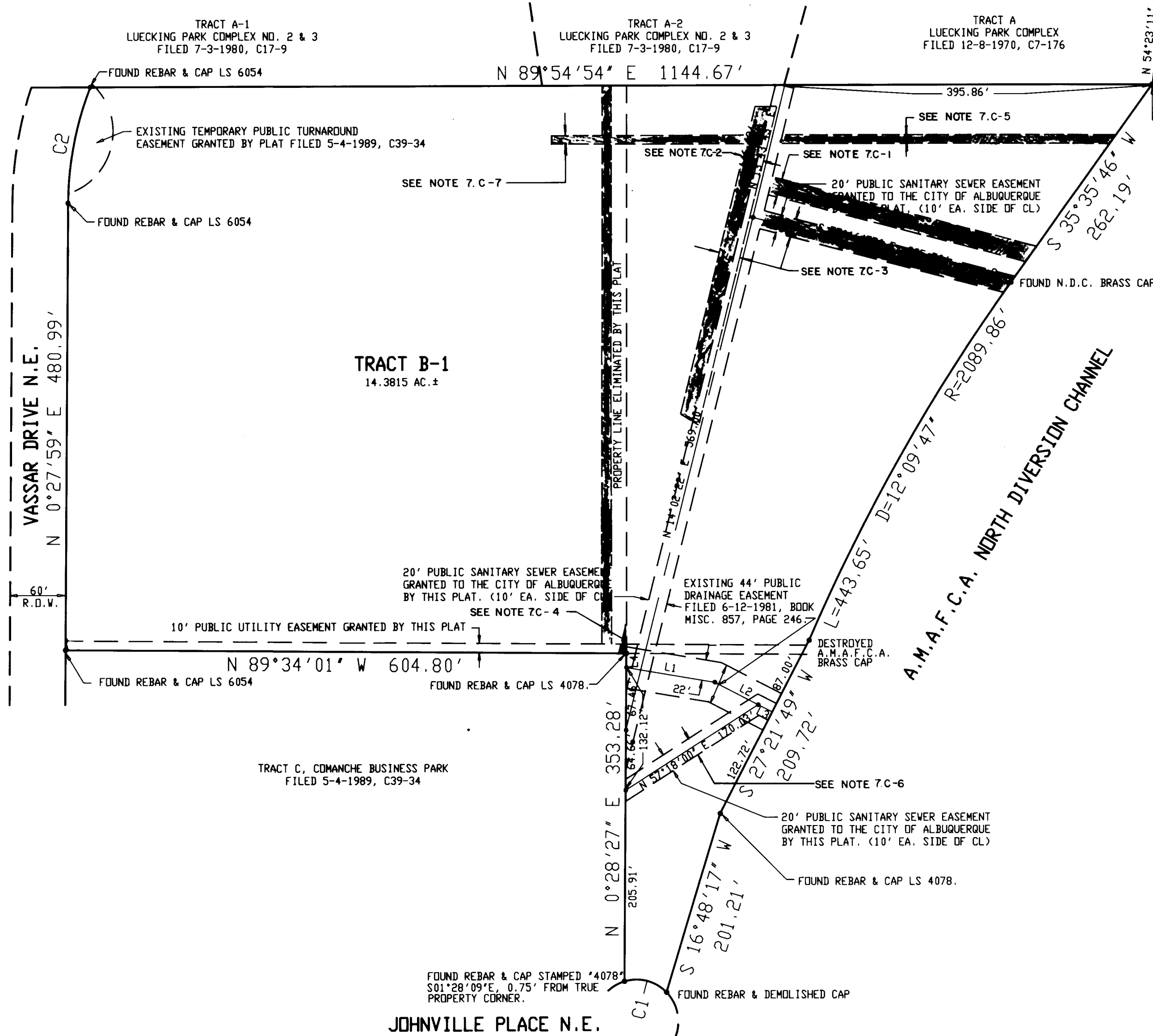
Jeff Mortensen & Associates, Inc.  
Notary Public  
Deputy Clerk

A.C.S. STA. "NDC 15-16"  
X = 392,486.40  
Y = 1,502,912.20

FOUND N.D.C. BRASS CAP  
N.M. CENTRAL ZONE NAD-1927  
X = 392,486.40  
Y = 1,501,816.83  
COMB. FACTOR = 0.9996707  
DELTA ALPHA = -0.127"



RECORD  
DRAWING



LINE	BEARING	DISTANCE
L1	S 80°26'36\"	96.67
L2	S 62°34'02\"	69.81
L3	S 62°34'02\"	17.24
L4	N 0°28'27\"	15.25

CURVE	ARC	DELTA	RADIUS	CHORD LENGTH	CHORD BEARING	TAN LENGTH
C1	49.47	62°58'52\"	45.00	47.01	N 75°28'51\"	27.57
C2	128.11	20°58'19\"	350.00	127.40	N 10°57'08\"	64.78
C3	2.96	0°04'52\"	2089.86	2.96	S 35°34'07\"	1.48

**Jma**

JEFF MORTENSEN & ASSOCIATES, INC.  
6010-B MIDWAY PARK BLVD. NE.  
ALBUQUERQUE, NEW MEXICO 87109  
ENGINEERS SURVEYORS (SOS) 345-4250

SHEET 2 OF 2.

93014024 PLAT OF  
TRACT B-1  
COMANCHE BUSINESS PARK  
ALBUQUERQUE, NEW MEXICO  
MAY, 1992

## DESCRIPTION

A certain tract of land located within the Corporate Limits of the City of Albuquerque, New Mexico, comprising Tracts B and D, Comanche Business Park, as the same is shown and designated on the plat filed in the Office of the County Clerk of Bernalillo County, New Mexico, on May 04, 1989, Book C39, Page 34, and being more particularly described as follows:

Beginning at the northwest corner of the parcel herein described, being the northeast corner of said Tract B, and also being the northeast corner of Vassar Drive N.E.; thence N 89°54'54\"

- Public utility easements shown on this plat are ten (10) feet wide and are granted for the common and joint use of:
- The Public Service Company of New Mexico for the installation, maintenance, and service of overhead and underground electrical lines, transformers, poles and other equipment, fixtures, structures and related facilities reasonably necessary to provide electrical service.
  - The Gas Company of New Mexico for installation, maintenance, and service of natural gas lines, valves and other equipment and facilities reasonably necessary to provide natural gas.
  - U.S. West for the installation, maintenance, and service of buried and aerial communication lines and other related equipment and facilities reasonably necessary to provide communication services including, but not limited to, above ground pedestals and closures.
  - Jones Interchange for the installation, maintenance, and service of such lines, cables, and other related equipment and facilities reasonably necessary to provide Cable TV service.

Included, is the right to build, rebuild, construct, reconstruct, locate, relocate, change, remove, modify, renew, operate, and maintain facilities for the purposes described above, together with free access to, from, and over said easements, including sufficient working area space for electric transformers, with the right and privilege to trim and remove trees, shrubs or bushes which interfere with the purposes set forth herein. No building, sign, pool (aboveground or subsurface), hot tub, concrete or wood pool decking, or other structure shall be erected or constructed on said easements, nor shall any well be drilled or operated thereon. Property owners shall be solely responsible for correcting any violations of the National Electric Safety Code caused by construction or pools, decking, or any structures adjacent to within or near easements shown on this plat.

## DISCLAIMER

By executing this plat, PMA does not warrant, release, and hold harmless or assume any liability for any errors or omissions which may have been granted by prior plat, replat, or document.

## FREE CONSENT

The undersigned owners of the land shown hereon do hereby consent to the subdivision of said land in the manner shown on this plat and do hereby grant the easements as shown including the rights of ingress and egress and the right to trim interfering trees.

Edward L. McCausland, President  
Date 2/10/93

ACKNOWLEDGMENT  
JUAN M. CALA  
NOTARY PUBLIC STATE OF NEW MEXICO  
My Commission Expires 7-17-94

STATE OF NEW MEXICO } SS  
COUNTY OF BERNALILLO }

The foregoing instrument was acknowledged before me on this 24th day of August, 1992.

Notary Public  
Date 8-9-93

APPROVALS  
DRB CASE NO. 92-0066, V-92-7

PLANNING DIRECTOR, CITY OF ALBUQUERQUE, NEW MEXICO  
DATE 2-10-93

UTILITY DEVELOPMENT, CITY OF ALBUQUERQUE, NEW MEXICO  
DATE 1-26-93

CITY ENGINEER, CITY OF ALBUQUERQUE, NEW MEXICO  
DATE 2-2-93

A.M.A.F.C.A.  
DATE 2-2-93

TRANSPORTATION DEVELOPMENT, CITY OF ALBUQUERQUE, NEW MEXICO  
DATE 1-29-93

PARKS AND RECREATION, CITY OF ALBUQUERQUE, NEW MEXICO  
DATE 1/24/93

CITY SURVEYOR, CITY OF ALBUQUERQUE, NEW MEXICO  
DATE 08/25/92

REAL PROPERTY, CITY OF ALBUQUERQUE, NEW MEXICO  
DATE 2/4/93

PUBLIC SERVICE COMPANY OF NEW MEXICO  
DATE 1/27/93

U.S. WEST COMMUNICATIONS  
DATE 1/21/93

GAS COMPANY OF NEW MEXICO  
DATE 2-5-93

JONES INTERCHANGE  
DATE 1-29-93

## CERTIFICATION

I, Charles G. Cala, Jr., a registered Professional Surveyor under the laws of the State of New Mexico, do hereby certify that this plat was prepared by me or under my direct supervision, shows all easements noted in the title policy prepared by Chicago Title Insurance Company dated December 6, 1991, Policy #09 32 022 60 000822, meets the minimum requirements of nonumentation and surveys of the Albuquerque Subdivision Ordinance, and is true and correct to the best of my knowledge and belief.

Charles G. Cala, Jr., N.M.P.S. 11184  
Date 2-24-1992

PMA EASEMENT RELEASE APPROVAL

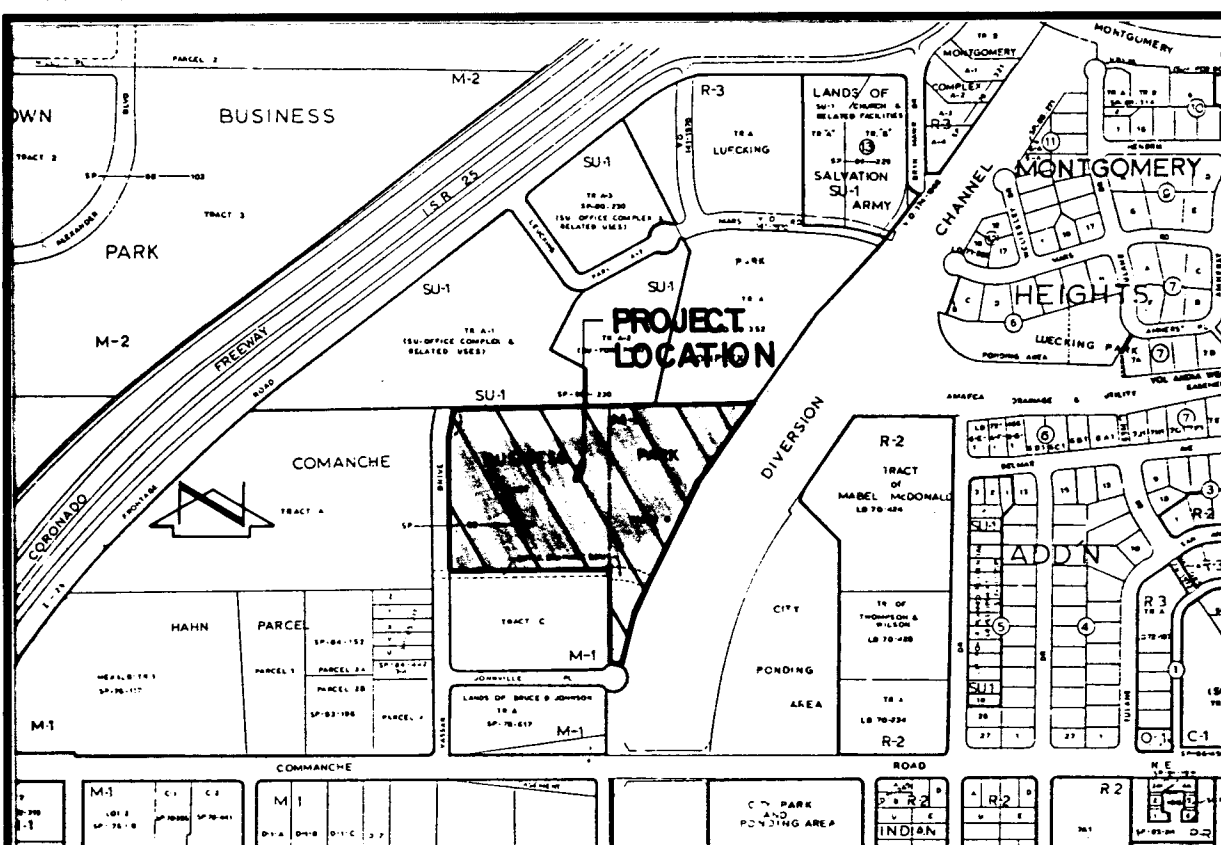
Public Service Company of New Mexico does hereby release, waive, quitclaim and discharge its right, title, and interest in the easements (granted by prior plat, replat or document) shown on this plat.

PUBLIC SERVICE COMPANY OF NEW MEXICO  
By: [Signature]  
Date 8-9-93

STATE OF NEW MEXICO } SS  
COUNTY OF BERNALILLO }

The foregoing instrument was acknowledged before me on this 24th day of January, 1992 by [Signature] of the Public Service Company of New Mexico, a New Mexico Corporation, on behalf of said corporation.

Notary Public  
My Commission Expires 8-9-93



VICINITY MAP

G-16

NOT TO SCALE

## Notes:

- A boundary survey was performed on May 04, 1992. Property corners were found as indicated.
- No street mileage was created.
- All distances are ground distances.
- Site located within Section 3, Township 10 North, Range 3 East, N.M.P.M.
- Bearings shown hereon are Grid Bearings based on New Mexico State Plane Grid System, Central Zone.
- An existing blanket private drainage easement was granted by the plat of Comanche Business Park, filed May 04, 1989, Book C39, Page 34, with the understanding that the specific alignment and location will be determined upon the development of any of the parcel subdivided on said plat or the construction of Vassar Drive N.E. as designated by said plat, whichever occurs first.
- The purpose of this plat is to:
  - Eliminate the common property line between Tracts B and D, Comanche Business Park as shown.
  - Grant the public utility easement as shown.
  - Eliminate the following easements vacated by V-92-7 (shaded on Sheet 2 of 2):
    - Existing 20' sanitary sewer easement granted by plat filed May 04, 1989, Book C39, Page 34.
    - Existing water, sewer, and other public utility easements per easement document filed 4-14-1960, Book D537, Pages 581-585.
    - Existing sanitary sewer easement per easement document filed 4-14-1960, Book D537, Pages 585-587.
    - Existing sanitary sewer easement per easement document filed 3-10-1959, Book D468, Pages 395-396.
    - Existing 10' PNM and MST & T easement per easement document filed 3-25-1960, Document No. 60-63105.
    - Existing 20' sanitary sewer easement per easement document filed 7-31-1984, Book Misc. 1394, Pages 762-765.
    - Existing 10' PNM and MST & T easement per easement document filed 5-15-1959, Book 1480, Pages 539-540.
  - Grant a 20' public sanitary sewer easement centered upon the true location of the existing public sanitary sewer line as shown hereon.
- Prior to development, City of Albuquerque Water and Sanitary Sewer Service to Tract B-1 must be verified and coordinated with the Public Works Department, City of Albuquerque, via a request for a water and sanitary sewer availability statement.

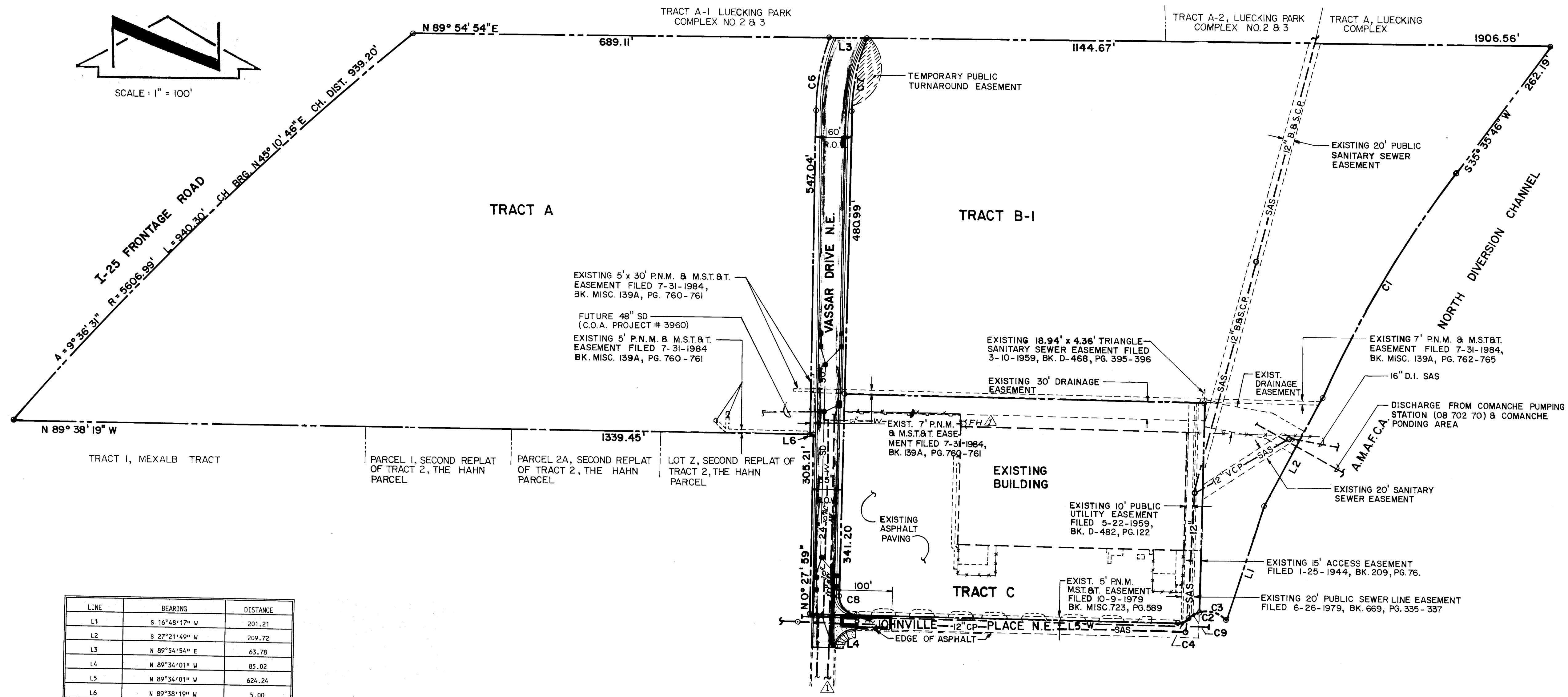
SCANNED BY RY LASGN

PROJECT NO. 5007.90

SHEET 3 OF 15 900055

**Jma**

JEFF MORTENSEN & ASSOCIATES, INC.  
6010-B MIDWAY PARK BLVD. NE.  
ALBUQUERQUE, NEW MEXICO 87109  
ENGINEERS SURVEYORS (SOS) 345-4250  
JOB #900055a



LINE	BEARING	DISTANCE
L1	S 16°48'17" W	201.21
L2	S 27°21'49" W	209.72
L3	N 89°54'54" E	63.78
L4	N 89°34'01" W	85.02
L5	N 89°34'01" W	624.24
L6	N 89°38'19" W	5.00

CURVE	ARC	DELTA	RADIUS	CHORD LENGTH	CHORD BEARING	TAN. LENGTH
C1	443.65	12°09'47"	2089.86	442.81	S 29°31'38" W	222.66
C2	70.68	89°59'31"	45.00	63.64	N 88°59'11" W	44.99
C3	69.47	62°58'52"	45.00	47.01	N 75°28'51" W	27.57
C4	19.38	44°24'55"	25.00	18.90	S 68°13'31" W	10.21
C5	-----	-----	-----	-----	-----	-----
C6	126.66	17°42'00"	410.00	126.16	N 09°18'59" E	63.84
C7	128.11	20°58'15"	350.00	127.40	S 10°57'08" W	64.78
C8	47.14	90°02'00"	30.00	42.44	S 44°33'01" E	30.02
C9	21.21	27°00'39"	45.00	21.02	S 59°31'23" W	10.81



# RECORD DRAWING


SCANNED BY  
BY LASON

900055

**RECORD DRAWING**

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

*Jeffrey G. Mortensen*  
 Jeffrey G. Mortensen  
 NMPE No. 8547  
 Date 05-05-95



CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: COMANCHE BUSINESS PARK  
VASSAR DRIVE EXTENSION  
PAVING AND STORM DRAINAGE SITE PLAN

APPROVALS			APPROVALS		
ENGINEER	DATE		ENGINEER	DATE	
DRC CHAIRMAN	B. G. Gentry	12/3/94	WATER	Gentry	11/10/94
TRANSPORTATION	B. G. Gentry	11/16/94	WASTE WATER		
HYDROLOGY	C. Monte-ye	11-17-94			

PROJECT NO.	5007.90	MAP NO.	G16	SHEET	4	OF	15
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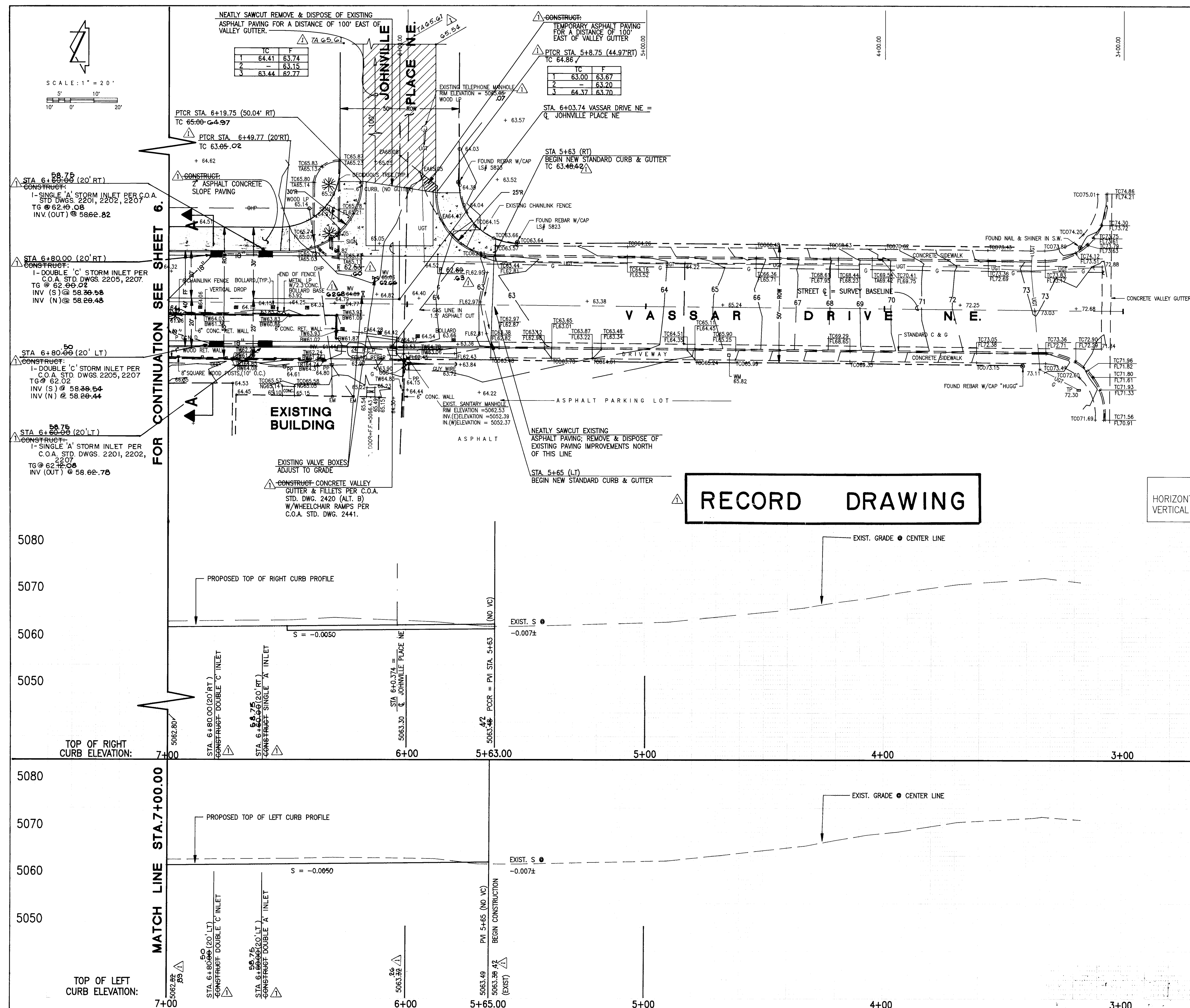
<b><i>AS BUILT INFORMATION</i></b>					
N°TRACTOR	R.M.C.I.	J.R.K.	J.M.A.	DATE	03/95
SPECIFICATIONS	DIRECTED BY	M.D.S.	DATE	03/95	
ELECTRICAL	BY	M.D.S.	DATE	03/95	
PLUMBING	CHECKED BY	M.D.S.	DATE	03/95	
CORRECTED BY	M.D.S.	DATE	03/95		
<b><i>MICRO-FILM INFORMATION</i></b>					
CODER BY	DATE				

BENCH	MARKS
THE STATION IS A STANDARD NIMSHC BRASS TABLET, STAMPED "STA M-6", SET IN TOP OF A CONCRETE POST FLUSH W/ THE GROUND. TO REACH THE STATION FROM THE INTERSECTION OF MONTGOMERY BLVD. & CARLISLE BLVD., N.E. GO WEST ON MONTGOMERY BLVD. 0.1 MILES TO THE CHANNEL & THE STATION. THE STATION IS LOCATED AT THE EAST END OF THE BRIDGE CROSSING THE NORTH DIVERSION CHANNEL.	

[illegible]

01	AS-BUILT AND CERTIFY	DATE	07/94
02		DATE	07/94
03		DATE	07/94
04		DATE	07/94
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100		DATE	07/94





# COMANCHEE ROAD N.E.

HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 10'

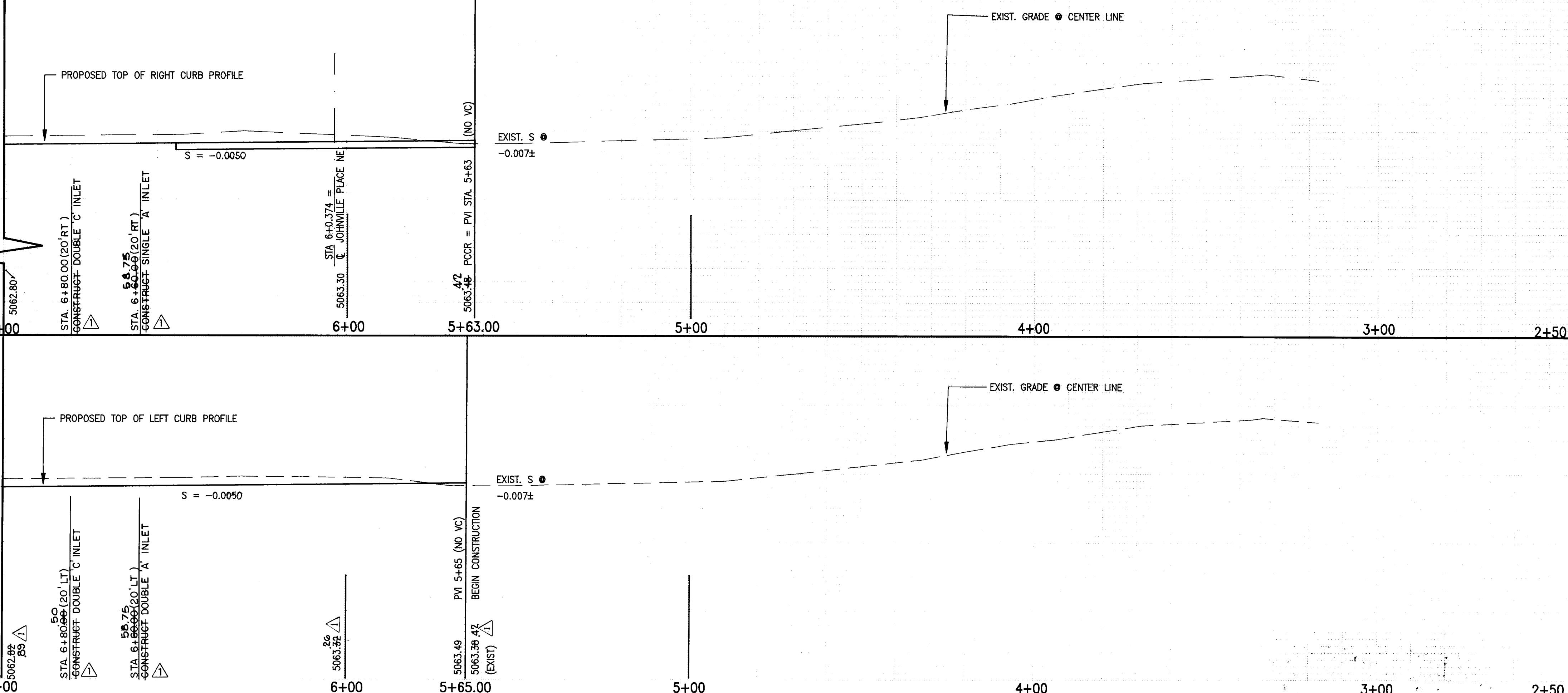
STREET PAVING IMPROVEMENTS

1. ALL SLOPES AS SHOWN ON PROFILES ARE BASED ON STREET CENTERLINE.
2. WHERE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK OR PAVEMENT IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. CURB AND GUTTER SHALL BE REPAIRED AS EXISTING AND TO BE REFINISHED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REPAIRED AND REFINISHED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
3. ALL DIMENSIONS OF CURB AND CURB RETURNS ARE SHOWN TO FACE--OF-CURB.
4. ALL WHEELCHAIR RAMPS MUST BE CONSTRUCTED UNDER THIS WORK ORDER.
5. ALL CURB AND GUTTER SHOWN HEREON SHALL BE STANDARD CURB AND GUTTER CITY OF ALBUQUERQUE STANDARD DRAWING 2415.

STORM DRAIN NOTES:

1. ALL STORM DRAIN TO BE CLASS II REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE NOTED.
2. ALL MANHOLES SHALL BE 4' DIAMETER TYPE 'C' PER C.O.A. STANDARD DRAWING 2101 UNLESS OTHERWISE NOTED.
3. ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS OTHERWISE NOTED. SLOPES ARE BASED ON TRUE LENGTH OF PIPE.
4. ALL STORM INLETS SHALL BE TEMPORARILY BLOCKED UNTIL THE DOWNSTREAM IMPROVEMENTS ARE IN PLACE AND OPERATIONAL. AS PART OF THIS CONTRACT, THE CONTRACTOR SHALL INSTALL A PLYWOOD BAFFLE WITHIN THE INLET CHAMBER TO BLOCK THE INLET/OUTLET PIPE OPENINGS, FILL THE INLET CHAMBER WITH SANDBAGS TO WITHIN 6 INCHES OF THE BOTTOM OF GRATE FRAME, COMPACT SIX INCHES CLEAN SAND OVER SANDBAGS TO BOTTOM OF GRATE FRAME, THEN INSTALL FOUR INCHES TEMPORARY ASPHALTIC CONCRETE PAVING WITHIN GRATE FRAME AREA (DO NOT INSTALL GRATES). THE INLET THROAT SHALL BE PACKED WITH SANDBAGS AND SEALED WITH FOUR INCHES TEMPORARY ASPHALTIC CONCRETE PAVING TO PROJECTED FACE OF CURB. ALL OF THE ABOVE IS INCIDENTAL TO THE CONSTRUCTION OF THE STORM INLETS. THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.

RECORD      DRAWING



RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: COMANCHE BUSINESS PARK  
VASSAR DRIVE EXTENSION  
PAVING AND STORM DRAINAGE IMPROVEMENTS PLAN & PROFILE  
STA. 5+63.5 TO STA. 7+00.00

SHE 010000 TO SHE 710000					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>B. J. [Signature]</i>	12/3/94	WATER	<i>[Signature]</i>	11/14/94
TRANSPORTATION	<i>[Signature]</i>	11/14/94	WASTE WATER		
HYDROLOGY	<i>C. [Signature]</i>	11-17-94			

PROJECT NO.	5007.90	MAP NO.	G16	SHEET	5	OF	15
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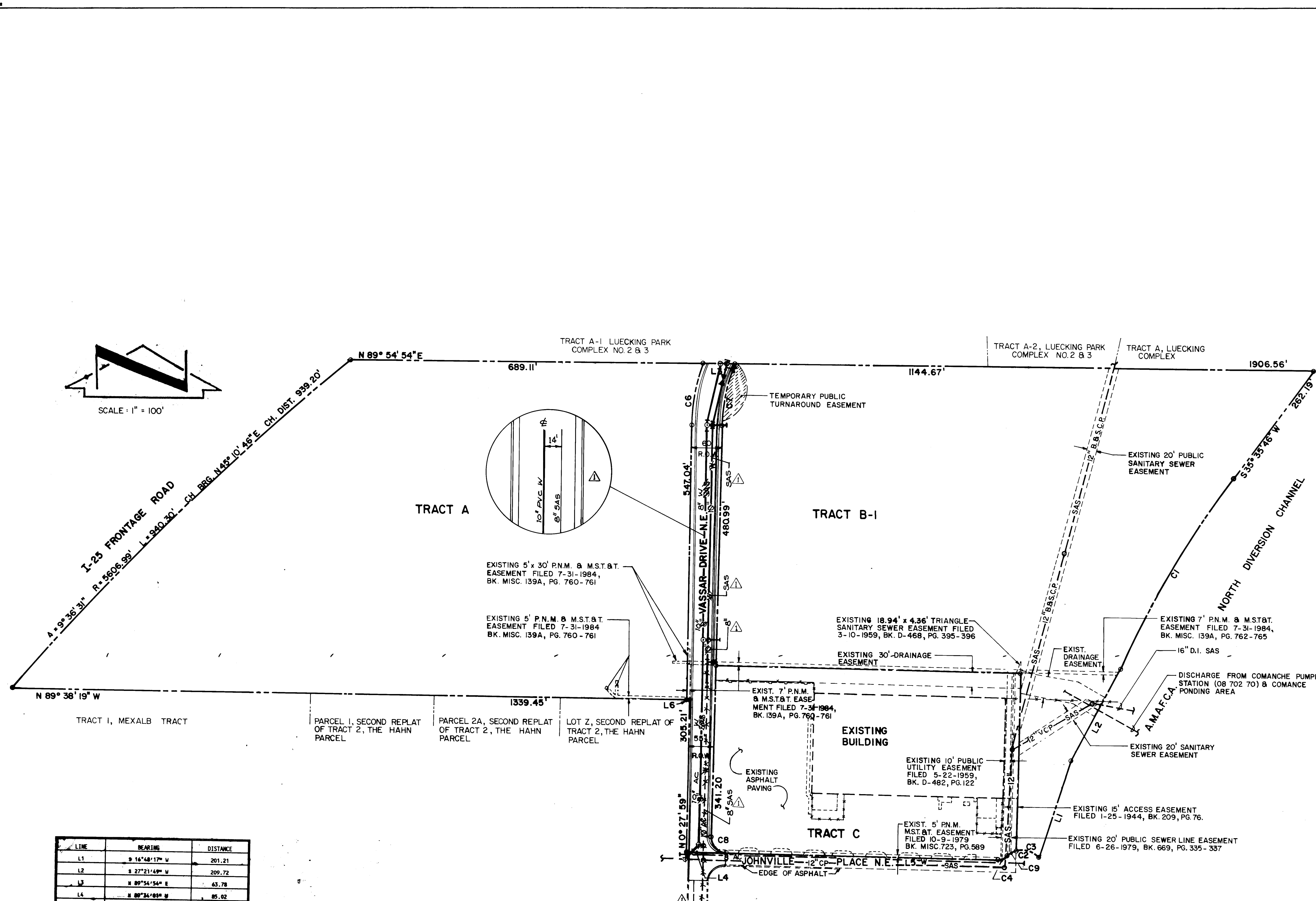
SCANNED BY  
BY LASON











LINE	BEARING	DISTANCE
L1	S 16°48'17" W	201.21
L2	S 27°21'49" W	209.72
L3	N 89°54'54" E	63.78
L4	N 89°54'09" E	85.02
L5	N 89°54'01" E	624.24
L6	N 89°58'19" W	5.00

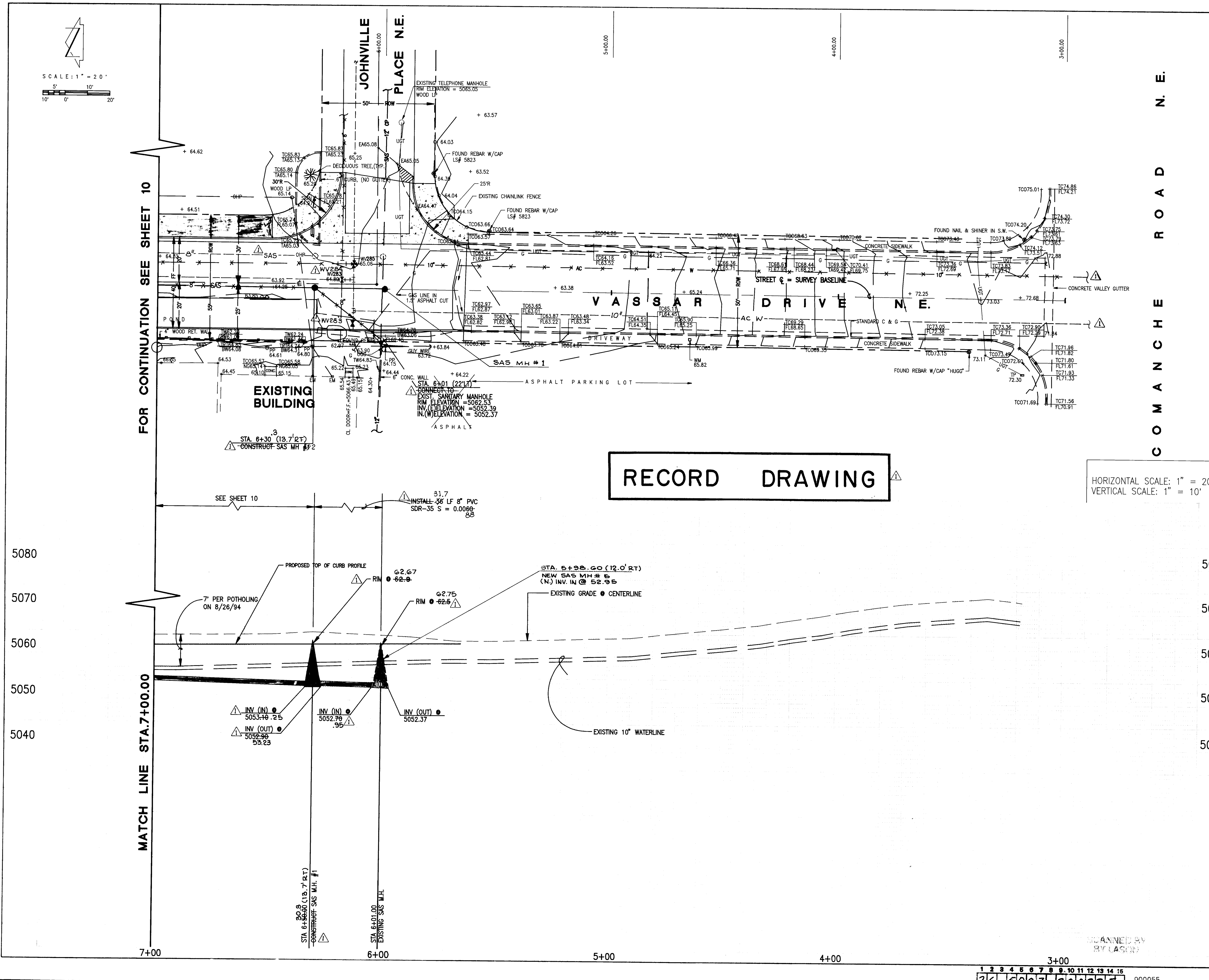
CURVE	ARC	DELTA	RADIUS	CHORD LENGTH	CHORD BEARING	TAN LENGTH
C1	443.65	12°09'47"	2089.86	442.81	S 29°31'38" W	222.66
C2	70.68	89°59'31"	45.00	63.64	N 88°59'11" W	44.99
C3	49.47	62°58'52"	45.00	47.01	N 75°28'51" W	27.57
C4	19.38	44°24'55"	25.00	18.90	S 68°13'31" W	10.21
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C6	126.66	17°42'00"	410.00	126.16	N 09°18'59" E	63.84
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C8	47.14	90°02'00"	30.00	42.44	S 44°33'01" E	30.02
C9	21.21	27°00'39"	45.00	21.02	S 59°31'23" W	10.81

RECORD DRAWING

26 5002.900895

ENGINEER'S SEAL		AS BUILT INFORMATION	
THE STATION IS A STANDARD NMHC BRASS TABLET, STAMPED "STA M-6" SET IN TOP OF A CONCRETE POST FLUSH W/ THE GROUND TO REACH THE STATION FROM THE INTERSECTION OF MONTGOMERY BLVD. & CARLISLE BLVD., N.E. GO WEST ON MONTGOMERY BLVD. 0.1 MILES TO THE CHANNEL & THE STATION. THE STATION IS LOCATED AT THE EAST END OF THE BRIDGE CROSSING THE NORTH DIVERSION CHANNEL. ELEVATION = 510.49' (M.S.L.D.)		CONTRACTOR WORKED BY INSPECTED BY ACCEPTANCE BY DATE J.M.A. DATE 03/95	
RECORD DRAWING		M.D.S.	
I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.		BY DATE 07/94	
DESIGNED BY JGM		DATE 07/94	
DRAWN BY MSC		DATE 07/94	
CHECKED BY JGM		DATE 07/94	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: COMANCHE BUSINESS PARK VASSAR DRIVE EXTENSION WATER & SANITARY SEWER SITE PLAN			
APPROVALS	ENGINEER	DATE	APPROVALS
DRG CHAIRMAN	12/3/94	12/3/94	WATER
TRANSPORTATION	11/14/94	11/14/94	WASTE WATER
HYDROLOGY	11/17/94	11/17/94	
PROJECT NO.	5007.90	MAP NO.	G16
SHEET	8	OF	15





- WATER VALVE SHUTOFF PLAN REQUIREMENTS:**
- AS A MINIMUM, THE FOLLOWING VALVES SHALL BE CLOSED TO FACILITATE THE CONNECTIONS SHOWN HEREON:  
283, 284, 285
  - THE CONTRACTOR SHALL NOTIFY WATER SYSTEMS, THREE (3) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING WATERLINES. ALL SHUTOFFS SHALL BE PERFORMED BY THE WATER SYSTEM DIVISION PERSONNEL (857-8200).
  - THE CONTRACTOR SHALL PROVIDE ALL RESTRAINTS AND THRUST BLOCKS NECESSARY TO EFFECT THE NECESSARY SHUTOFFS AND CONNECTIONS.
  - EXISTING WATER VALVE AND WATERLINE INFORMATION OBTAINED FROM CITY OF ALBUQUERQUE AUTOMATED WATER DISTRIBUTION SYSTEM SECTIONAL MAPS, PLATE G-16, AND SUPPLEMENTED WITH LIMITED FIELD INVESTIGATION.
  - AT THE TIME OF WATER SHUTOFF APPLICATION, THE CONTRACTOR SHALL REQUEST THAT THE WATER SYSTEM DIVISION NOTIFY ALL AFFECTED PROPERTY OWNERS AT LEAST 24 HOURS IN ADVANCE OF THE RESPECTIVE SHUTOFFS.

- SANITARY SEWER EXTENSION:**
- ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.
  - ALL SEWER PIPE SHALL BE PVC (SDR 35).
  - SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
  - ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE 'E' AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.
  - SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125. EMD SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
  - WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE CONCRETE ENCASED FOR A DISTANCE OF 10 FEET EACH SIDE OF THE CROSSING IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.

- WATERLINE EXTENSION:**
- ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS NOTED OTHERWISE.
  - 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.
  - WATERLINE SHALL HAVE A MINIMUM COVER OF 4'-0" (TOP OF CURB TO TOP OF PIPE). EXTRA DEPTH TRENCHING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
  - ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
  - IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, METALLIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.
  - 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.
  - JOINT RESTRAINT SHALL BE CONSIDERED INCIDENTAL TO WATERLINE CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
  - JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE HYDRANT INCLUDING THE TEE AND FIRE HYDRANT.

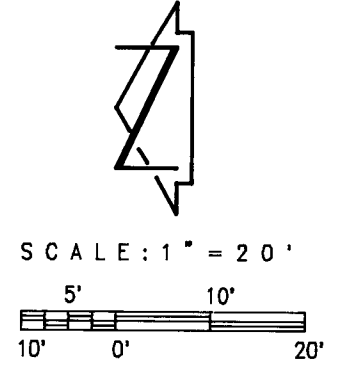
**RECORD DRAWING**

I, **Jeffrey G. Mortensen**, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

**Jeffrey G. Mortensen**  
Professional Engineer  
No. 8547  
Date 12/13/94

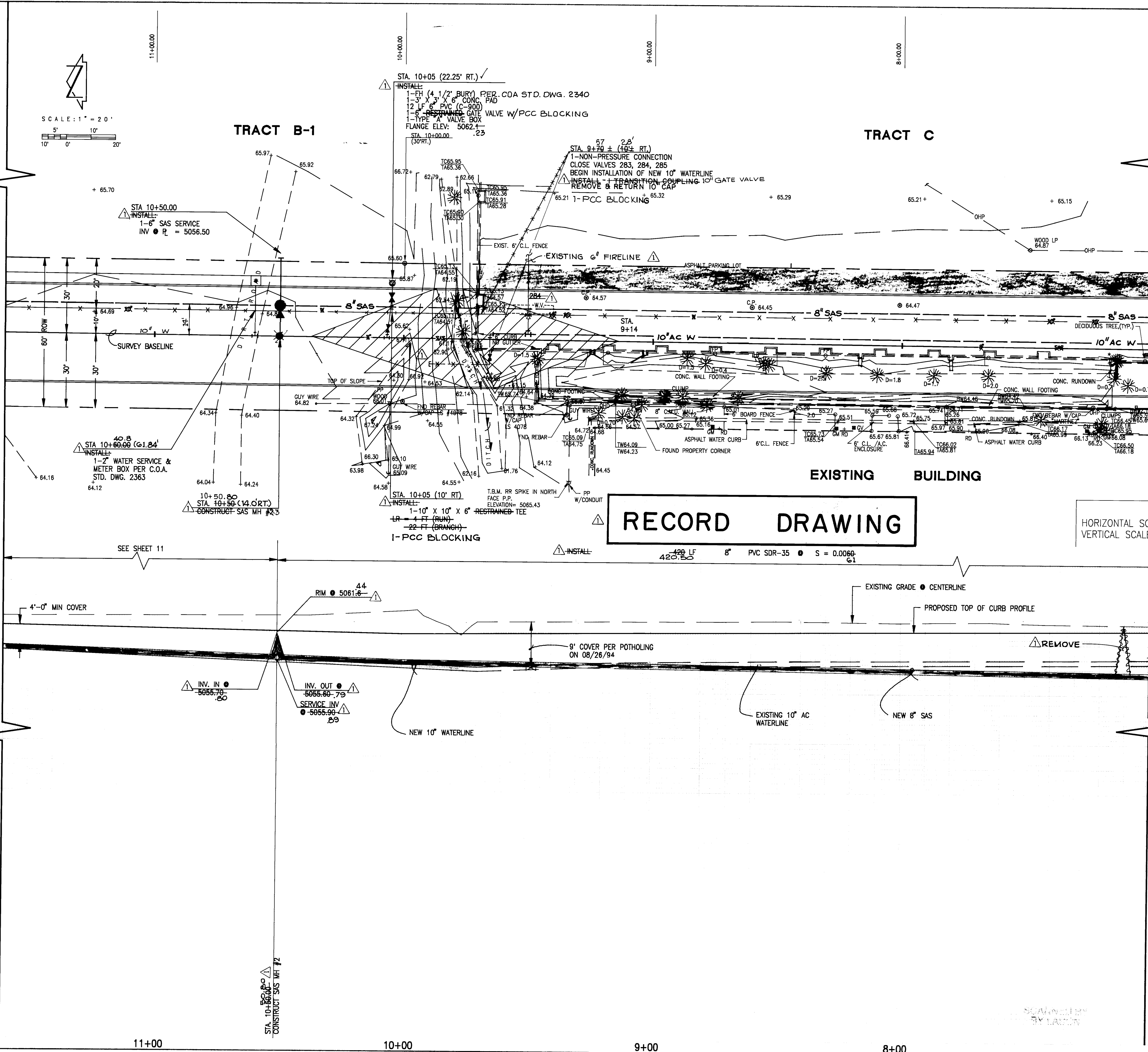
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: COMANCHE BUSINESS PARK VASSAR DRIVE EXTENSION WATER & SANITARY SEWER EXTENSION PLAN & PROFILE STA. 5+83.5 TO 7+40.00					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	<i>[Signature]</i>	12/13/94	WATER	<i>[Signature]</i>	12/13/94
TRANSPORTATION	<i>[Signature]</i>	11/24/94	WASTE WATER	<i>[Signature]</i>	11/24/94
HYDROLOGY	<i>[Signature]</i>	11-17-94			
PROJECT NO. 5007.90			MAP NO. G16		
SHEET 9			OF 15		

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	R.M.C.I.	THE STATION IS A STANDARD INCH/8 BRASS TABLET, STAMPED STA. M-6, SET IN TOP OF A CONCRETE POST FLUSH W/ THE GROUND.	DATE	NO.	BY		09-08-94
WORKED BY	J.M.A.	TO REACH THE STATION FROM THE INTERSECTION OF MONTGOMERY BLVD. & CARLISLE BLVD., N.E. GO WEST ON MONTGOMERY BLVD. 0.1 MILES TO THE CHANNEL & THE STATION IS LOCATED @ THE EAST END OF THE BRIDGE CROSSING THE NORTH DIVERSION CHANNEL. ELEV. = 5110.49 (M.S.L.P.)	6/94	N/A	J.M.A.		
INSPECTED BY	M.D.S.						
DATE	03/95						
AS-BUILT AND CERTIFY		REVISIONS		DESIGN		CHECKED BY	
NO.	DATE	NO.	DATE	DESIGNED BY	DATE	DESIGNED BY	DATE
				J.G.M.	7-94	J.G.M.	7-94
				DRAWN BY	DATE	DRAWN BY	DATE
				C.J.H.	7-94	C.J.H.	7-94
				CHECKED BY	DATE	CHECKED BY	DATE



FOR CONTINUATION SEE SHEET 11

MATCH LINE STA. 11+60.00



FOR CONTINUATION SEE SHEET 9

MATCH LINE STA. 7+00.00

RECORD DRAWING

HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 10'

- WATER VALVE SHUTOFF PLAN REQUIREMENTS:**
- AS A MINIMUM, THE FOLLOWING VALVES SHALL BE CLOSED TO FACILITATE THE CONNECTIONS SHOWN HEREON:  
283, 284, 285
  - THE CONTRACTOR SHALL NOTIFY WATER SYSTEMS THREE (3) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING WATERLINE; ALL SHUTOFFS SHALL BE PERFORMED BY THE WATER SYSTEM DIVISION PERSONNEL (857-8200).
  - THE CONTRACTOR SHALL PROVIDE ALL RESTRAINTS AND THRUST BLOCKS NECESSARY TO EFFECT THE NECESSARY SHUTOFFS AND CONNECTIONS.
  - EXISTING WATER VALVE AND WATERLINE INFORMATION OBTAINED FROM CITY OF ALBUQUERQUE AUTOMATED WATER DISTRIBUTION SYSTEM SECTIONAL MAPS, PLATE G-16, AND SUPPLEMENTED WITH LIMITED FIELD INVESTIGATION.
  - AT THE TIME OF WATER SHUTOFF APPLICATION, THE CONTRACTOR SHALL REQUEST THAT THE WATER SYSTEM DIVISION NOTIFY ALL AFFECTED PROPERTY OWNERS AT LEAST 24 HOURS IN ADVANCE OF THE RESPECTIVE SHUTOFFS.

- SANITARY SEWER EXTENSION:**
- ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.
  - ALL SEWER PIPE SHALL BE PVC (SDR 35).
  - SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
  - ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE 11 AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.
  - SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125. END SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
  - WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE CONCRETE ENCASED FOR A DISTANCE OF 10 FEET EACH SIDE OF THE CROSSING IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.

- WATERLINE EXTENSION:**
- ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS NOTED OTHERWISE.
  - 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.
  - WATERLINE SHALL HAVE A MINIMUM COVER OF 4'0" TOP OF CURB TO TOP OF PIPE. EXTRA DEPTH TRENCHING IF REQUIRED SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION. THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
  - ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
  - IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, METALIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 12" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.
  - 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.
  - JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE HYDRANT INCLUDING THE TEE AND FIRE HYDRANT.
  - JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE HYDRANT INCLUDING THE TEE AND FIRE HYDRANT.

**RECORD DRAWING**

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

*Jeffrey G. Mortensen*  
JEFFREY G. MORTENSEN  
REGISTERED PROFESSIONAL ENGINEER  
NEW MEXICO  
8547  
Date: 05-95

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: COMANCHE BUSINESS PARK  
VASSAR DRIVE EXTENSION  
WATER & SANITARY SEWER EXTENSIONS PLAN & PROFILE  
STA. 7+00.00 TO STA. 11+60.00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	<i>S. J. ...</i>	12/13/94	WATER		
TRANSPORTATION	<i>C. ...</i>	11/6/94	WASTE WATER	<i>C. ...</i>	11/6/94
HYDROLOGY	<i>C. ...</i>	12-17-94			

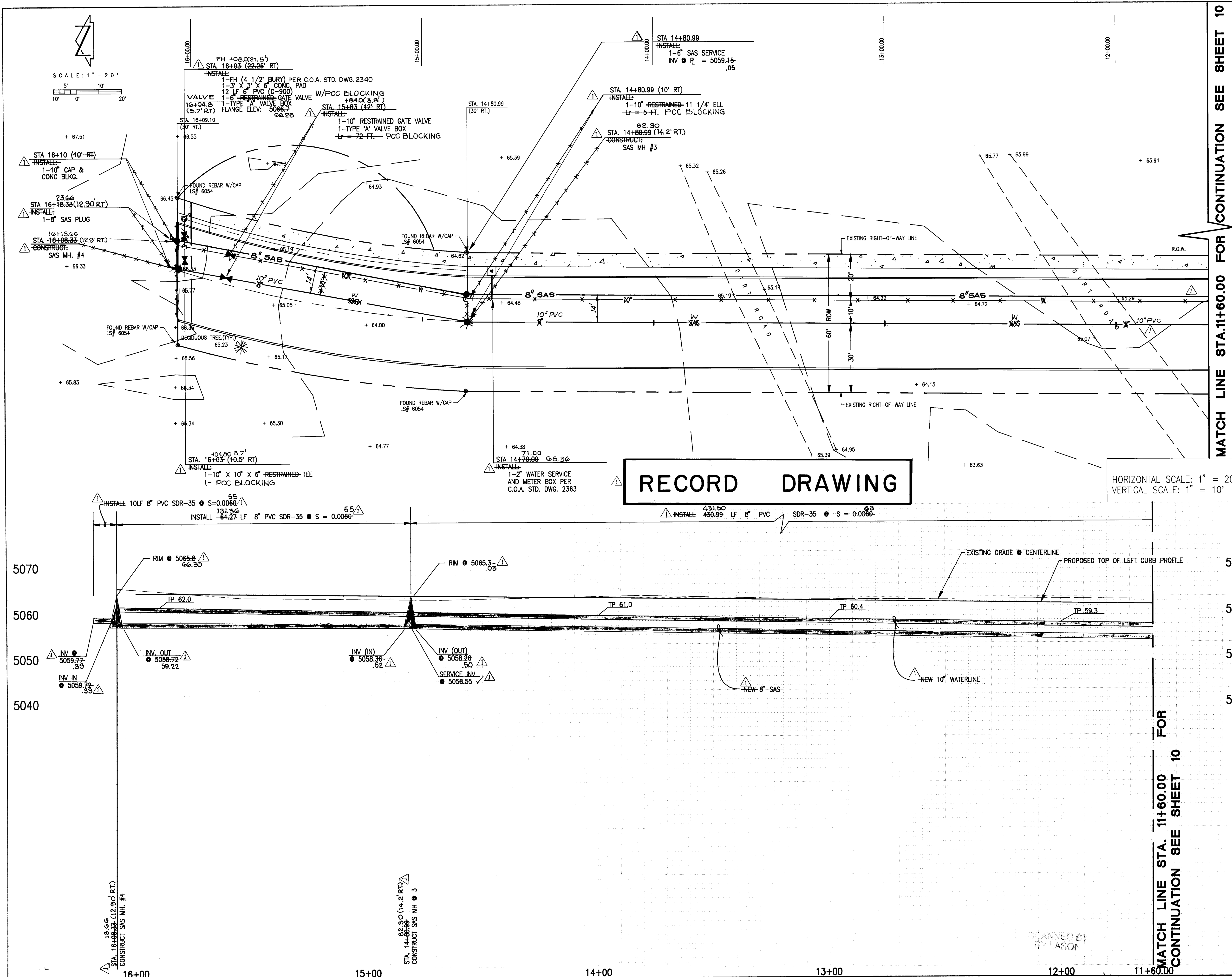
PROJECT NO. 5007.90  
MAP NO. G16  
SHEET 10 OF 15

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	R.M.C.I.	THE STATION IS A STANDARD MUSIC BRASS TABLET, STAMPED	DATE	NO.	BY	M.D.S.	BY
WORKMAN	J.M.A.	"STA. M-6", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND.	6/94	7/A	J.M.A.		
INSPECTOR	M.D.S.	TO REACH THE STATION FROM THE INTERSECTION OF MONTGOMERY					
ACCEPTANCE	M.D.S.	BLVD. & CARLEISLE BLVD., N.E. 60 WEST OF MONTGOMERY BUD.					
DATE	DATE 03/95	1/2 MILES TO THE CHANNEL & THE STATION. THE STATION IS					
		LOCATED @ THE EAST END OF THE BRIDGE CROSSING THE NORTH					
		DIVERSION CHANNEL. ELEV. = 5110.49 (M.S.L.P.)					
		RECORDED BY					
		NO					

REVISIONS		DESIGN	
NO.	DATE	NO.	DATE
1	7-94	1	7-94
2	7-94	2	7-94
3	7-94	3	7-94

DESIGNED BY J.C.M.  
DRAWN BY C.J.H.  
CHECKED BY J.C.M.





MATCH LINE STA. 11+60.00 FOR CONTINUATION SEE SHEET 10

MATCH LINE STA. 11+60.00 FOR CONTINUATION SEE SHEET 10

RECORD DRAWING

HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 10'

- WATER VALVE SHUTOFF PLAN REQUIREMENTS:**
- AS A MINIMUM, THE FOLLOWING VALVES SHALL BE CLOSED TO FACILITATE THE CONNECTIONS SHOWN HEREON:  
283, 284, 285
  - THE CONTRACTOR SHALL NOTIFY WATER SYSTEMS, THREE (3) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING WATERLINE. ALL SHUTOFFS SHALL BE PERFORMED BY THE WATER SYSTEM DIVISION PERSONNEL (857-8200).
  - THE CONTRACTOR SHALL PROVIDE ALL RESTRAINTS AND THRUST BLOCKS NECESSARY TO EFFECT THE NECESSARY SHUTOFFS AND CONNECTIONS.
  - EXISTING WATER VALVE AND WATERLINE INFORMATION OBTAINED FROM CITY OF ALBUQUERQUE AUTOMATED WATER DISTRIBUTION SYSTEM SECTIONAL MAPS, PLATE G-16, AND SUPPLEMENTED WITH LIMITED FIELD INVESTIGATION.
  - AT THE TIME OF WATER SHUTOFF APPLICATION, THE CONTRACTOR SHALL REQUEST THAT THE WATER SYSTEM DIVISION NOTIFY ALL AFFECTED PROPERTY OWNERS AT LEAST 24 HOURS IN ADVANCE OF THE RESPECTIVE SHUTOFFS.
- SANITARY SEWER EXTENSION:**
- ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.
  - ALL SEWER PIPE SHALL BE PVC (SDR 35).
  - SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
  - ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE 1-AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.
  - SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125. EMD SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
  - WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION. THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- WATERLINE EXTENSION:**
- ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS NOTED OTHERWISE.
  - 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.
  - WATERLINE SHALL HAVE A MINIMUM COVER OF 4'-0" (TOP OF CURB TO TOP OF PIPE) EXTRA DEPTH TRENCHING IS REQUIRED. SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION. THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
  - ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
  - IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, METALLIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.
  - 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.
  - JOINT RESTRAINT SHALL BE CONSIDERED INCIDENTAL TO WATERLINE CONSTRUCTION. THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
  - JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE HYDRANT INCLUDING THE TEE AND FIRE HYDRANT.

**RECORD DRAWING**

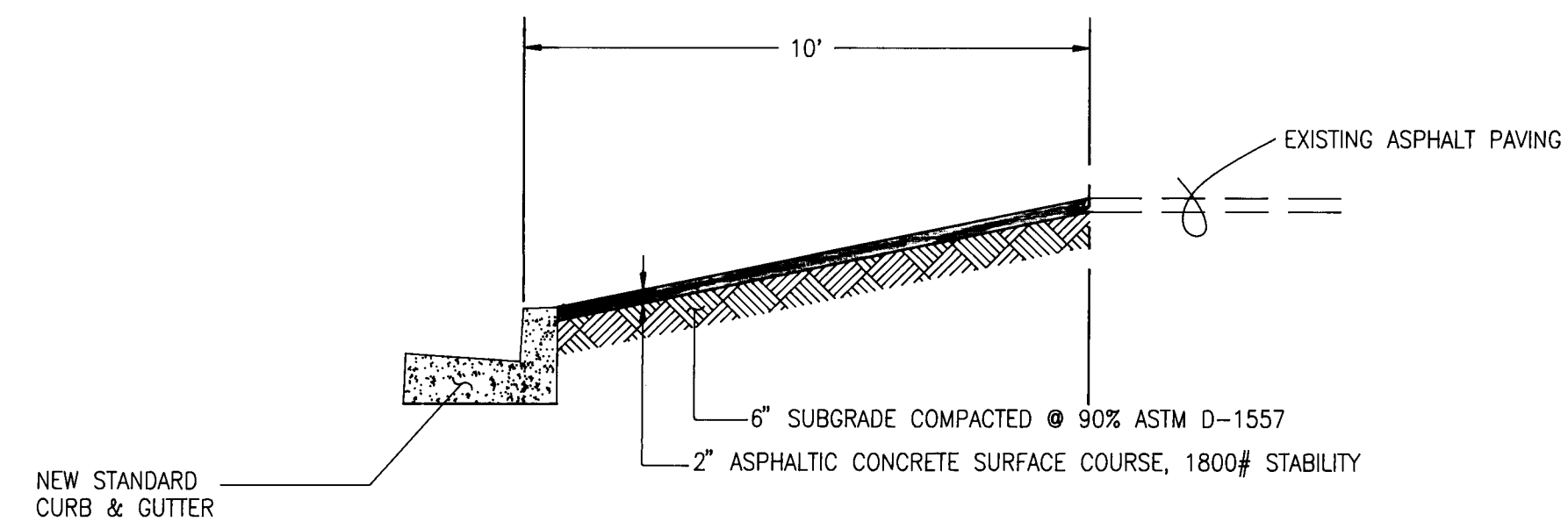
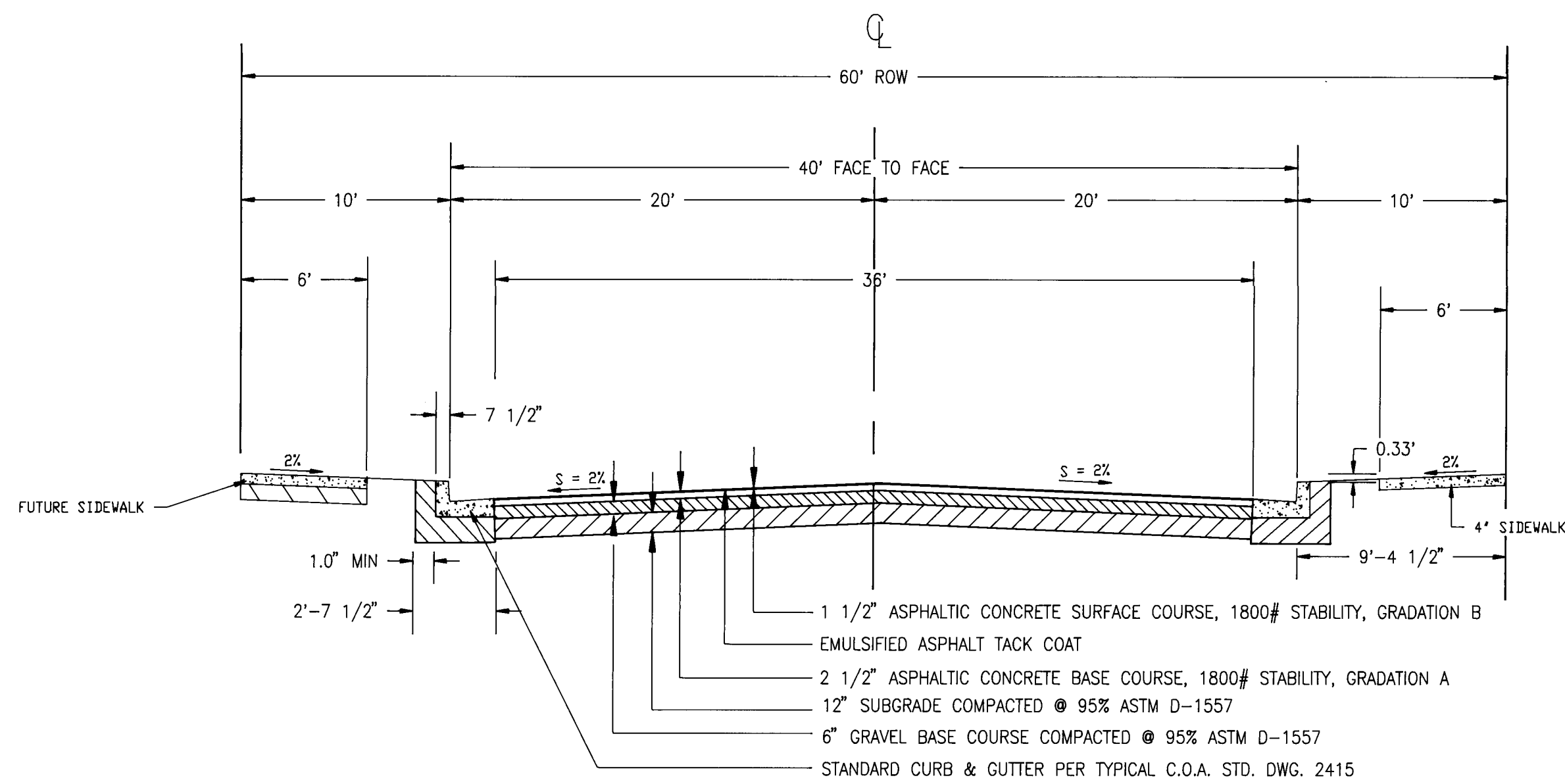
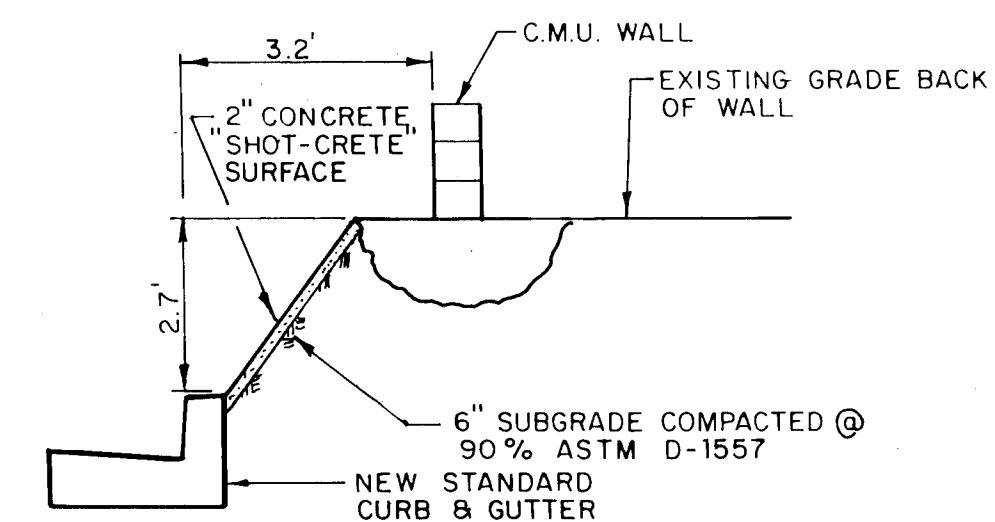
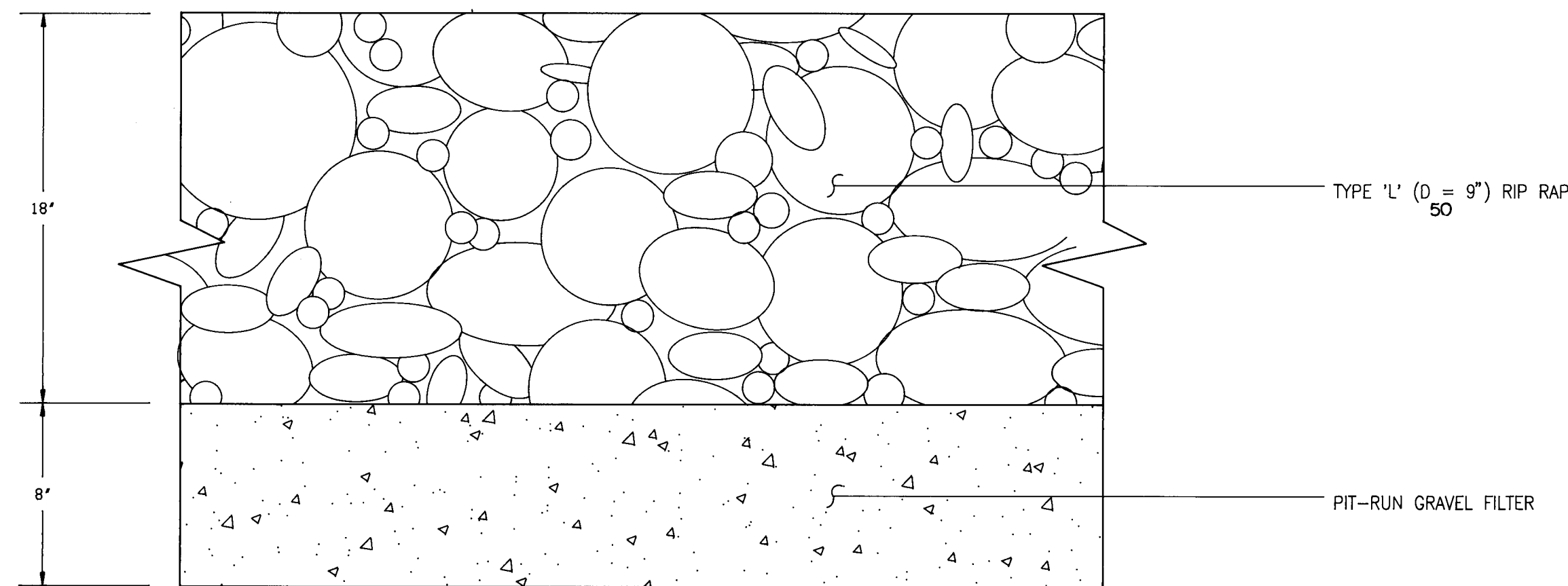
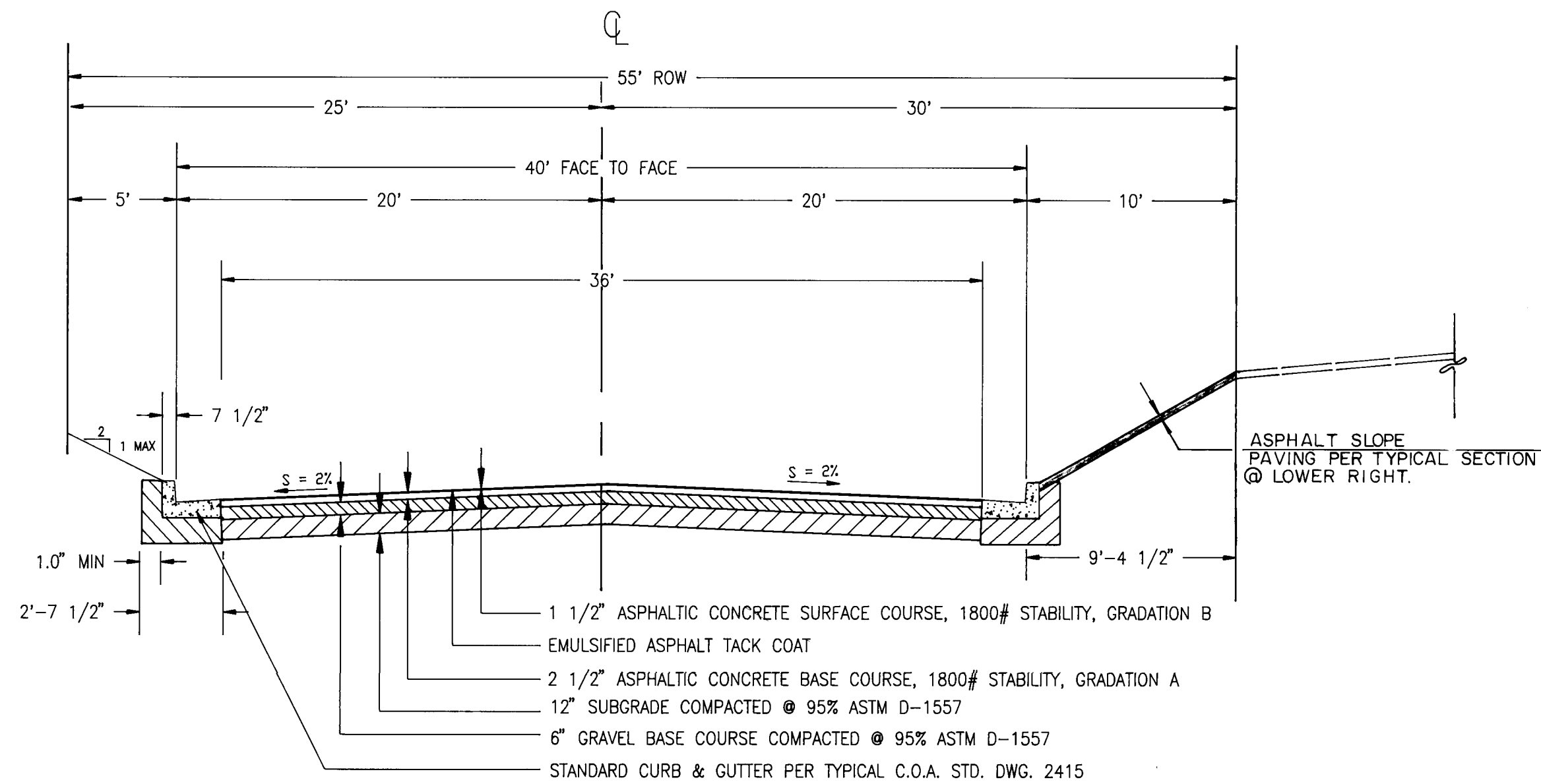
I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

Date: 03/95

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: COMANCHE BUSINESS PARK VASSAR DRIVE EXTENSION WATER & SANITARY SEWER PLAN & PROFILE STA. 11+60.00 TO 16+10.00					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		11/13/94	WATER		11/10/94
TRANSPORTATION		11/16/94	WASTE WATER		
HYDROLOGY		11-17-94			
PROJECT NO.	5007.90	MAP NO.	G16	SHEET	11 OF 15

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACT NO.	R.M.C.I.	STATION	THE STATION IS A STANDARD INCH BRASS TABLET, STAMPED "STA. M-6", SET IN TOP OF A CONCRETE POST FLUSH W/ THE GROUND.	DATE	BY	 09-08-94	RECEIVED PROJECT
DATE		DATE	TO REACH THE STATION FROM THE INTERSECTION OF MONTGOMERY BLVD. & CARLISLE BLVD., N.E. CO. WEST ON MONTGOMERY BLVD.	DATE	BY		
			1.01 MILES TO THE CHANNEL & THE STATION IS LOCATED @ THE EAST END OF THE BRIDGE CROSSING THE NORTH DIVERSION CHANNEL. ELEV. = 5110.48 (M.S.L.P.)				

NO.	DATE	REMARKS	BY
1	03/95	AS-BUILT AND CERTIFY	
2	03/95	DESIGN	



**RECORD DRAWING**

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

Jeffrey G. Mortensen  
Professional Engineer  
No. 8547  
Date 03/95

DESIGNED BY J.G.M. DATE 7-94  
DRAWN BY C.J.H. DATE 7-94  
CHECKED BY J.G.M. DATE 7-94

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: COMANCHE BUSINESS PARK  
VASSAR DRIVE EXTENSION  
SECTIONS & DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	J.G.M.	12/3/94	WATER	C.J.H.	11/16/94
TRANSPORTATION	C.J.H.	11/16/94	WASTE WATER		
HYDROLOGY	C.J.H.	11-17-94			

PROJECT NO. 5007.90 MAP NO. G16 SHEET 12 OF 15

**RECORD DRAWING**

26 5007.90 1295

900055



## CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.

2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.

3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.

4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.

5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.

6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.

8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.

9. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.

10. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.

11. CONTRACTOR SHALL NOT BEGIN WORK BEFORE 8:30 A.M. OR END WORK AFTER 4:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.

13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELLED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.

16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.

18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

19. 24 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:  
1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.  
2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.  
3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

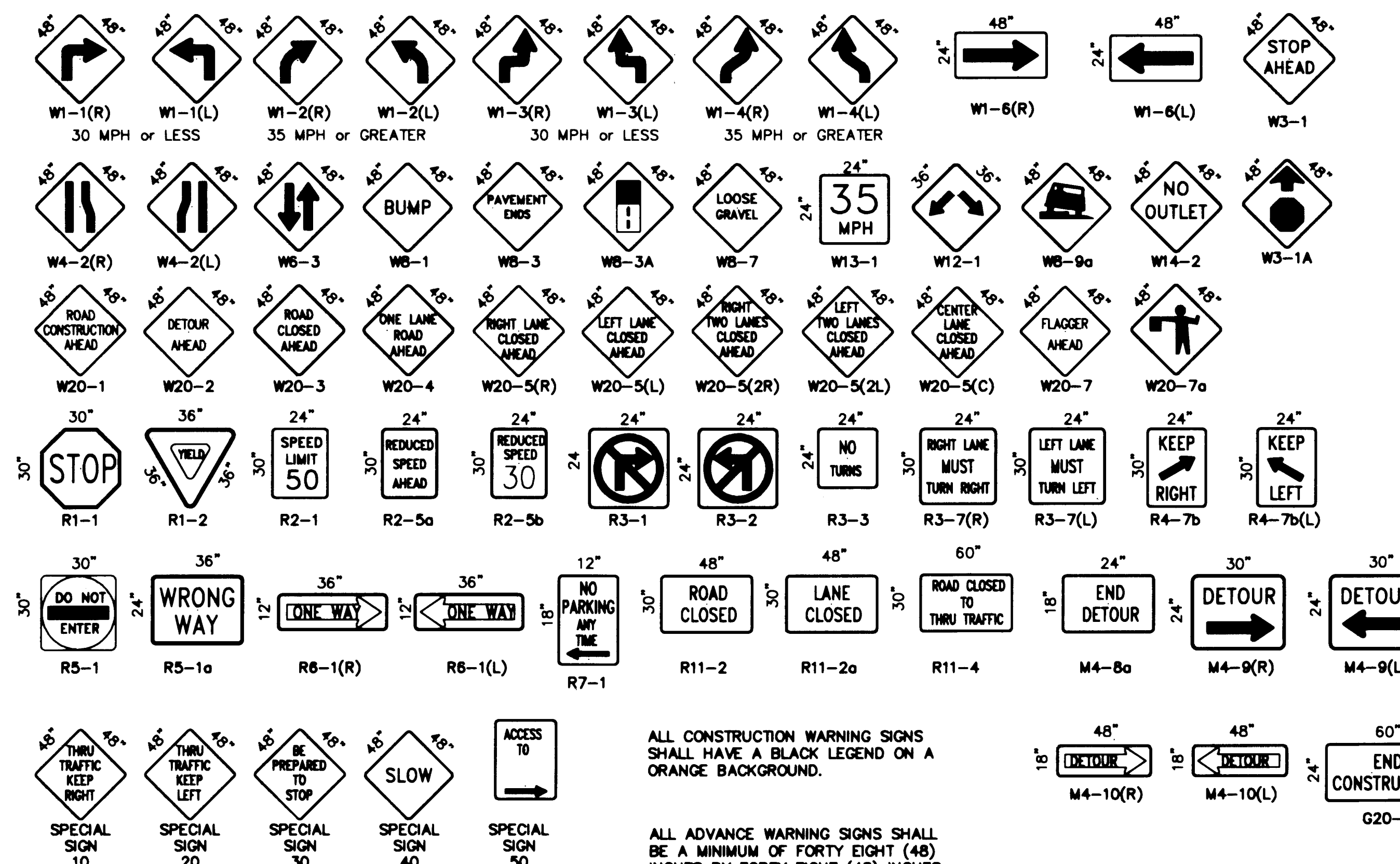
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO ITS PLACEMENT AND MAINTENANCE.

25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

## PROJECT CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

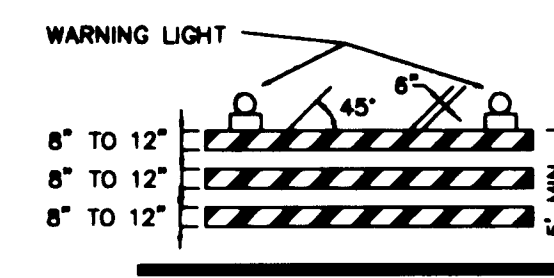
RECORD DRAWING

## SIGN FACE DETAILS

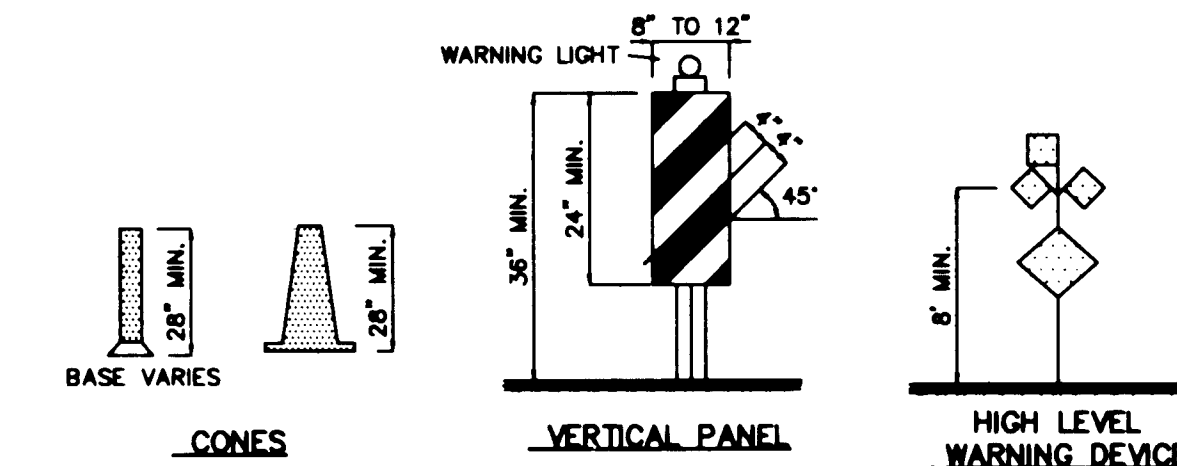


ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF FORTY EIGHT (48) INCHES BY FORTY EIGHT (48) INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.



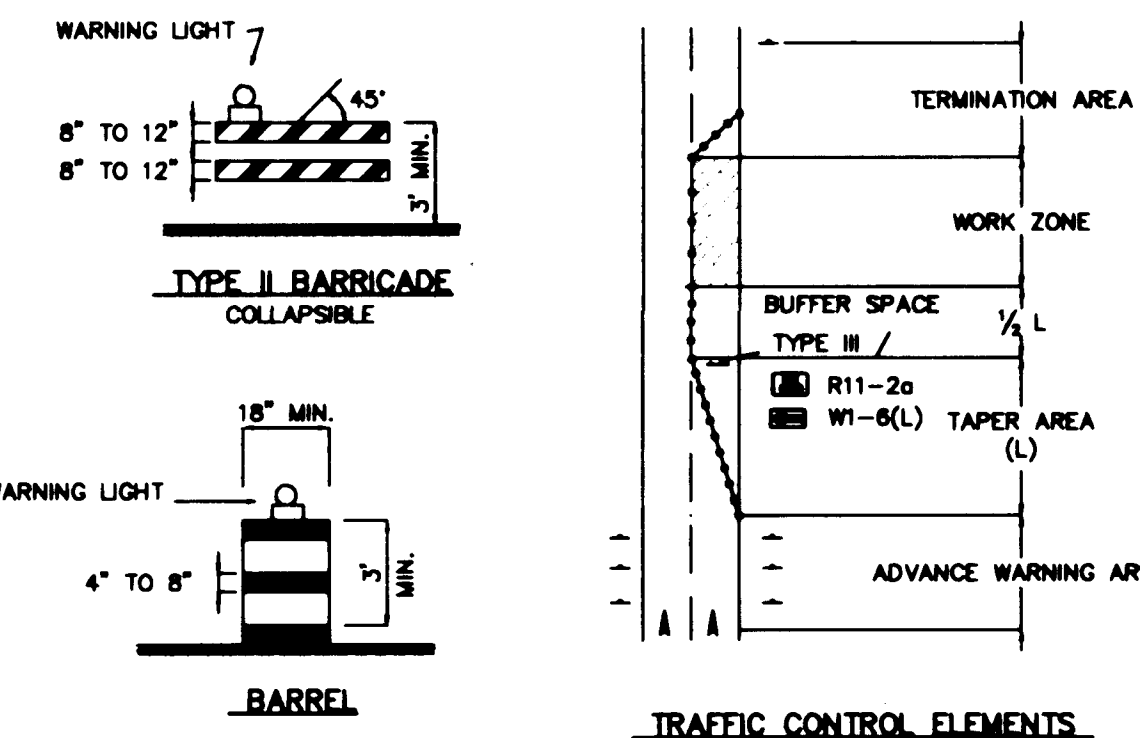
TYPE III BARRICADE



CONES

VERTICAL PANEL

HIGH LEVEL WARNING DEVICE



BARREL

TRAFFIC CONTROL ELEMENTS

## LEGEND

WORK AREA  
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  
SPACING BETWEEN BARRICADES - A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET  
TAPER LENGTH - SEE CHART BELOW  
THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

## TAPER REQUIREMENTS

SPEED LIMIT (MPH)	TAPER LENGTH (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	485	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

## RECOMMENDED SIGN SPACING FOR ADVANCE WARNING SIGN SERIES

SPEED MILES PER HOUR	MINIMUM DISTANCE IN FEET	
	BETWEEN SIGNS	FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

## TAPER CRITERIA

TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSIDE TAPERS	100 FEET PER LANE

## TAPER LENGTH COMPUTATION

SPEED LIMIT	L =
40 MPH OR LESS	$L = \frac{W \times S^2}{60}$
45 MPH OR GREATER	$L = W \times S$

L = TAPER LENGTH  
W = WIDTH OF OFFSET IN FEET  
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: COMANCHE BUSINESS PARK VASSAR DRIVE EXTENSION SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
ORC CHAIRMAN	B. J. [Signature]	12/3/94	WATER	[Signature]	11/10/94
TRANSPORTATION	[Signature]	11/10/94	WASTE WATER	[Signature]	
HYDROLOGY	[Signature]	11-12-94			
PROJECT NO.	5007.90	MAP NO.	G16	SHEET OF	13 15

