

PLANS FOR CONSTRUCTION OF

GOLDEN EAGLE DRIVE

16" WATERLINE RELOCATION

AND PRIVATE DRAINAGE CHANNEL

DECEMBER 1993

CITY PROJECT NO. 4815.90

BEI PROJECT NO.: 90463

INDEX TO DRAWINGS

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1	TITLE SHEET & VICINITY MAP
2	SUBDIVISION PLAN
3	WATERLINE PLAN AND PROFILE LAYOUT
4	CHANNEL DETAILS AND SHUTOFF PLAN

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR THE CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS INSTRUMENT ARE OWNED BY AND THE PROPERTY OF BRASHER ENGINEERING, INC., AND WERE CREATED AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. THESE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL NOT BE USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN CONSENT OF BRASHER ENGINEERING, INC.

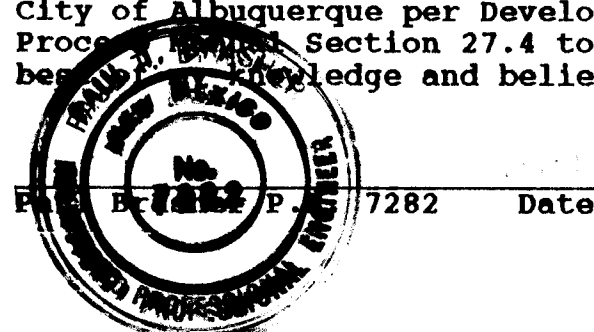
CERTIFICATION:

I, PAUL T. BRASHER, REGISTERED PROFESSIONAL ENGINEER, NO 7282, HEREBY CERTIFY THAT THE FOLLOWING PLANS AND DESIGNS WERE MADE UNDER MY SUPERVISION AND DIRECTION AND THAT SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Paul T. Brasher 12-21-93
N.M.P.E. NO. 7282

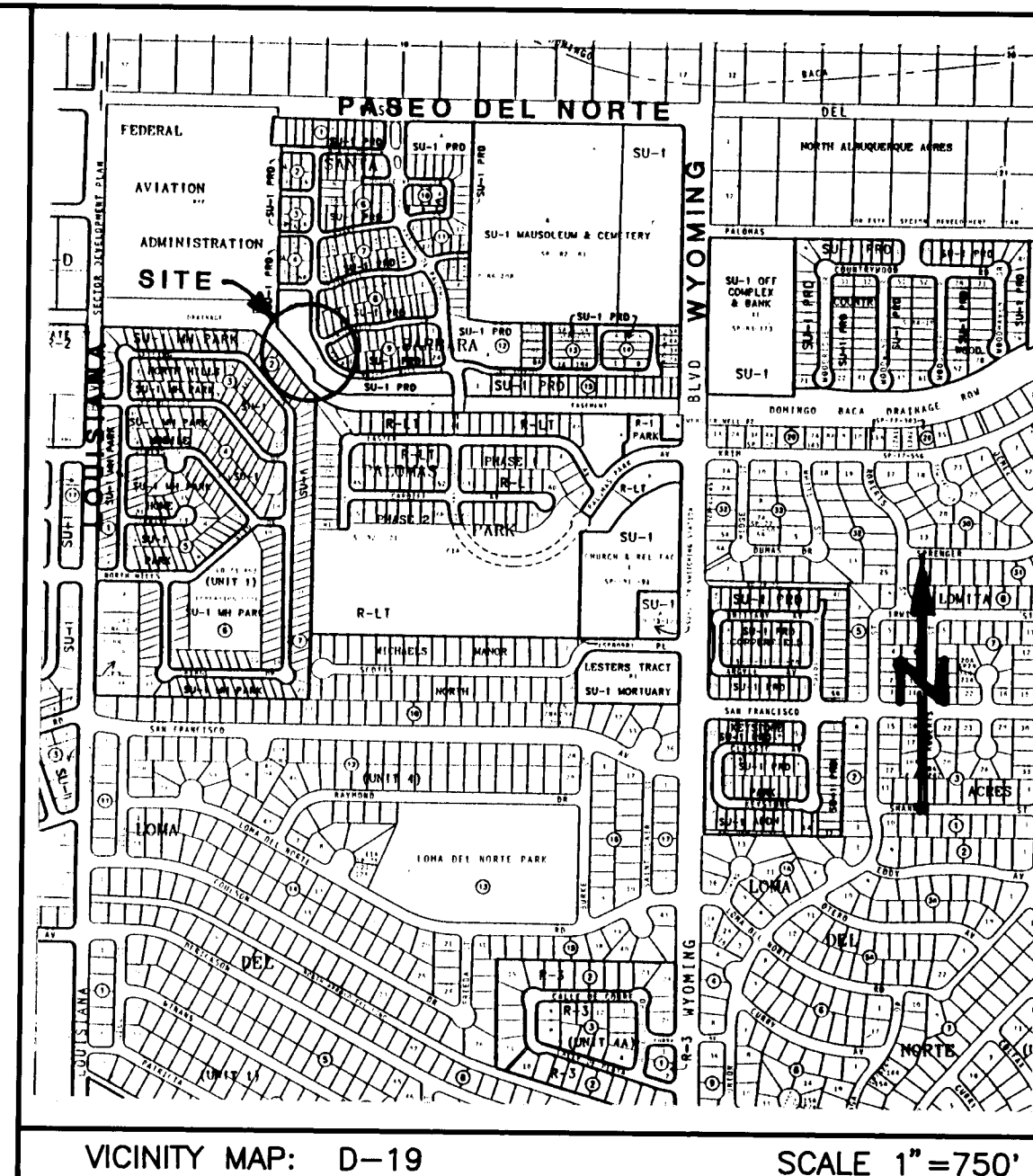
RECORD DRAWING

This drawing as modified shows public improvements as constructed. These modifications have been made using information and measurements obtained by Brasher Engineering, Inc. and Doug Smith Surveying, Inc. The modifications conform to the minimum requirements for record drawing criteria as required by the City of Albuquerque per Development Procedure Section 27.4 to the best of my knowledge and belief.



SCANNED BY LASON

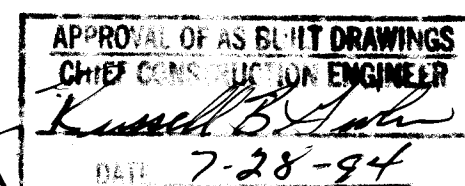
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GENERAL NOTES:

- 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 FOR PUBLIC WORKS CONSTRUCTION, 1992 (COA STD), 1986 EDITION AS AMENDED WITH UPDATE #4, 1992.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 280-1990, FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
- 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. THE CONTRACTOR SHALL INFORM HIMSELF 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 HIS 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.
- THE CONTRACTOR SHALL SECURE A "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE OWNERS FOR THE PREPARATION OF "RECORD DRAWINGS". THE CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
- CONTRACTOR SHALL PROVIDE THE CITY 72 HOURS ADVANCE NOTICE FOR SYSTEM SHUTDOWN. CALL WATER SYSTEMS DIVISION (857-8200).
- ELECTRONIC MARKER DISCS SHALL BE PLACED IN ACCORDANCE WITH SECTION 170 OF THE CITY OF ALBUQUERQUE, STANDARD SPECIFICATIONS, PUBLIC WORKS CONSTRUCTION.
- WATERLINE CONNECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY STD. DWG. 2301.
- ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY OR EASEMENTS MUST BE DONE FROM APPROVED WORK ORDER DOCUMENTS FROM THE CITY OF ALBUQUERQUE AND PREPARED BY BRASHER ENGINEERING, INC.
- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING, IN ADVANCE OF HIS CONSTRUCTION, IF OVERHEAD UTILITY LINES SUPPORT STRUCTURES, POLES, GUYS, ETC. ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTION OPERATIONS IS EVIDENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY OWNER TO REMOVE OR SUPPORT THE UTILITY OBSTRUCTION. ANY COST ASSOCIATED WITH THIS EFFORT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR IS TO SUPPORT AND MAINTAIN THE INTEGRITY OF ALL UNDERGROUND TELEPHONE, ELECTRIC CABLES, AND CABLE TELEVISION UTILITIES AT NO ADDITIONAL COST TO THE OWNER. CABLE IS TO BE SUPPORTED EVERY 15' (MINIMUM). CONTRACTOR SHALL COORDINATE WITH AND MAKE NECESSARY PAYMENT (IF ANY) TO UTILITY OWNER FOR DE-ENERGIZATION OF CABLES OR SUPPORT OF CABLES BY THE UTILITY OWNER.

26 4815.900194

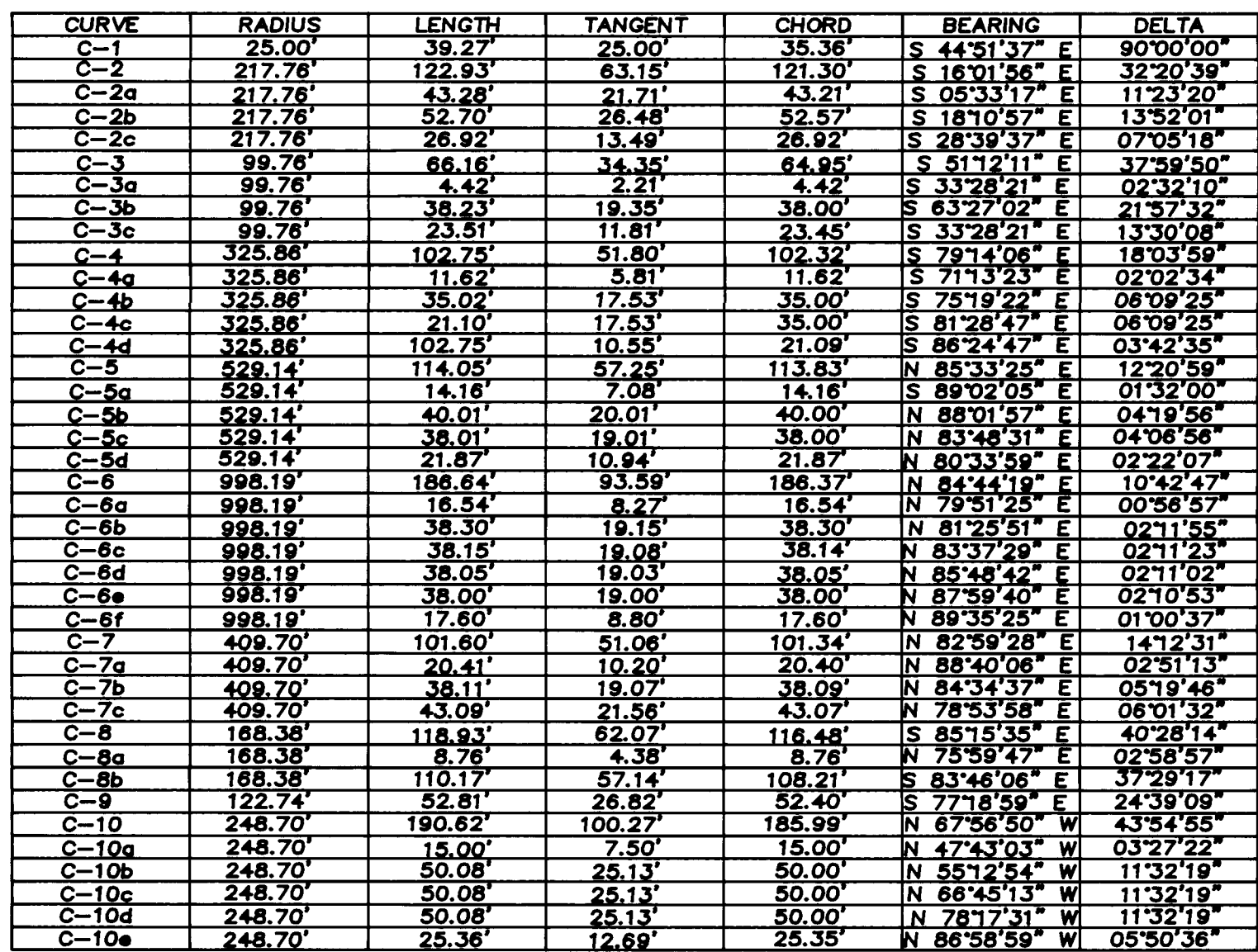


REV.	SHEETS	CITY ENGINEER	DATE	USER	DEPARTMENT	DATE	USER	DEPARTMENT	DATE

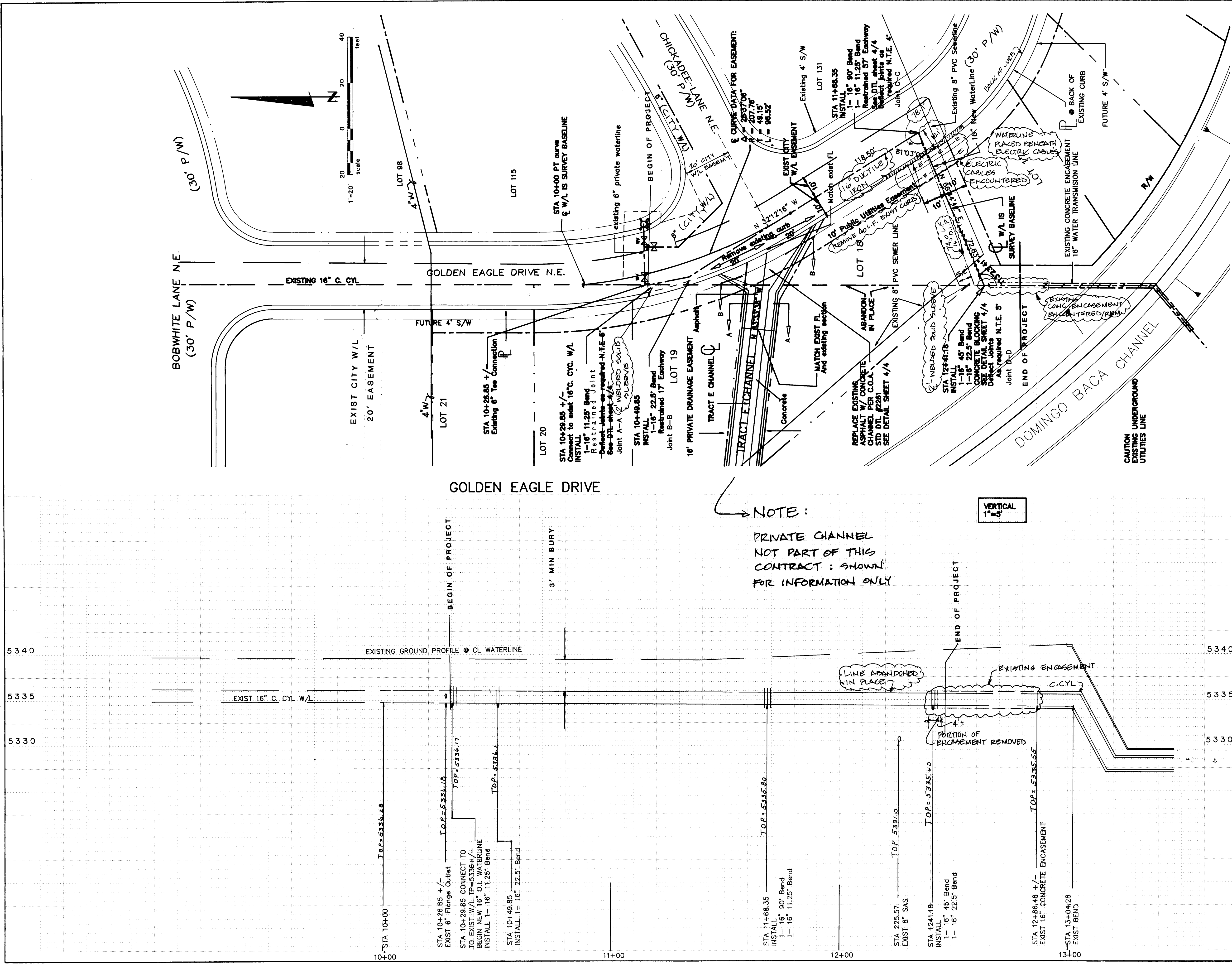
APPROVAL OF REVISIONS

ENGINEER'S SEAL 	APPROVED FOR CONSTRUCTION <i>William L. Smith</i> 12-21-93 C.E.
BRASHER ENGINEERING, INC.	
PROJECT NUMBER 4815.90	SHEET 1 OF 4

A vertical north arrow with a decorative swirl and the word "NORTH" written vertically. Below it is a graphic scale bar with alternating black and white segments, marked with 50, 100, and 200 feet. The text "(IN FEET)" and "1 inch = 50 ft." is centered below the scale bar.



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
26		48	15		90	02	94							



LEGEND

- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING CURB
- PROPERTY LINE
- EXISTING EASEMENT
- EXISTING WATERLINE
- PROPOSED WATERLINE
- EXISTING SIDEWALK
- EXISTING SEWERLINE
- AS-BUILT NOTE

RECORD DRAWING

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DATE: 12/28/93

ENGINEER'S SEAL

Professional Engineer Seal for R.W. Kane, State of New Mexico, No. 7282.

SURVEY INFORMATION			BENCH MARKS			AS BUILT INFORMATION		
NO.	BY	DATE	U.M. is C.O.A. Station "Heaven" Station is located on S. side Pasco Del Norte Approx. 800' west of Wyoming. Station is a USC&GS brass tablet stamped "Heaven 1909" Station elevation is 5378.787 feet MSL.	CONTRACTOR	WORK	DATE		
				Doug Smith Surveying, Inc.	AS BUILT	12/28/93		

REVISIONS		
NO.	DATE	REMARKS
1	12/28/93	DESIGN

DESIGNED BY MDT			DRAWN BY MDT			CHECKED BY PB		
DATE	DATE	DATE	DATE	DATE	DATE			
12/28/93	12/28/93	12/28/93	12/28/93	12/28/93	12/28/93			

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: SANTA BARBARA SUBDIVISION
GOLDEN EAGLE DRIVE

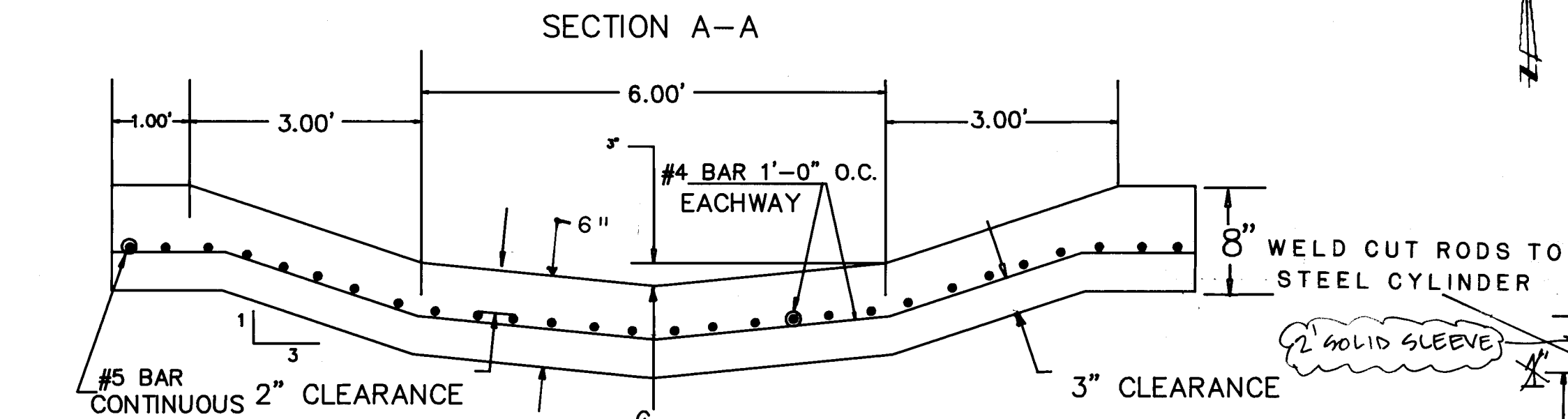
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	R.W. Kane	1-3-94	WATER	R.W. Kane	1-3-94
TRANSPORTATION	R.W. Kane	12/28/93	WASTE WATER	R.W. Kane	12/28/93
HYDROLOGY	R.W. Kane	12-28-93			

PROJECT NO. 4815.90 MAP NO. D 19 SHEET 3 OF 4

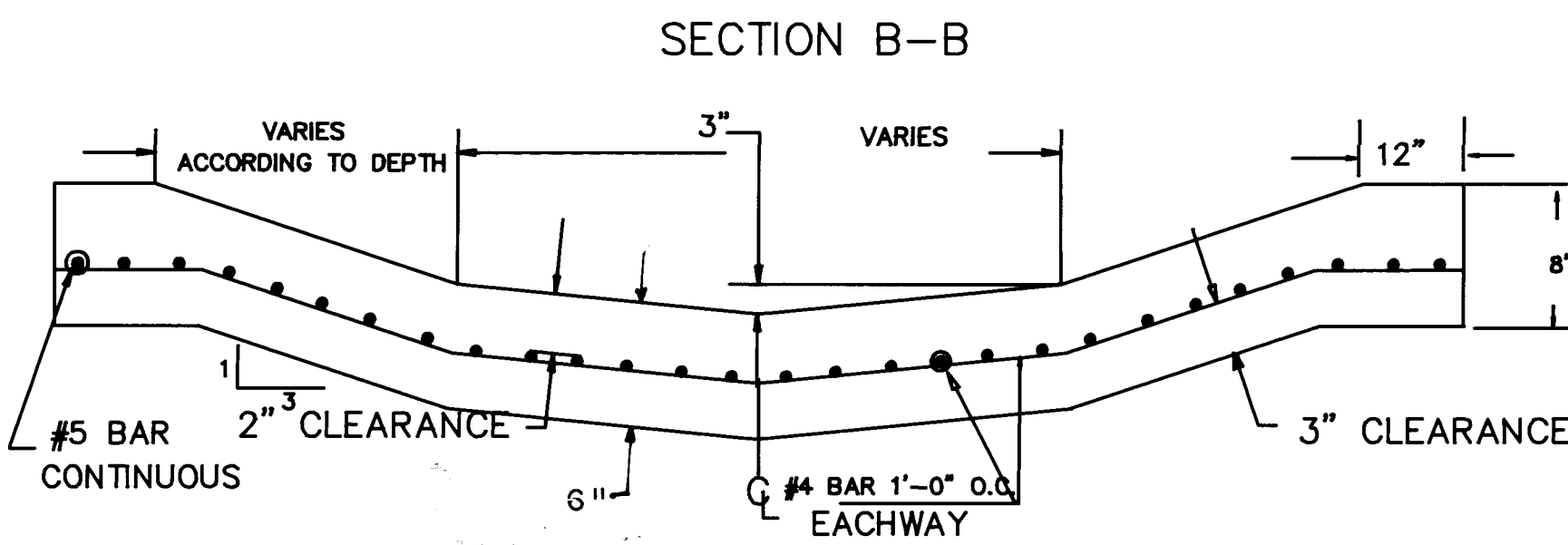
SCANNED BY
BY LAGON

CHANNEL DETAIL

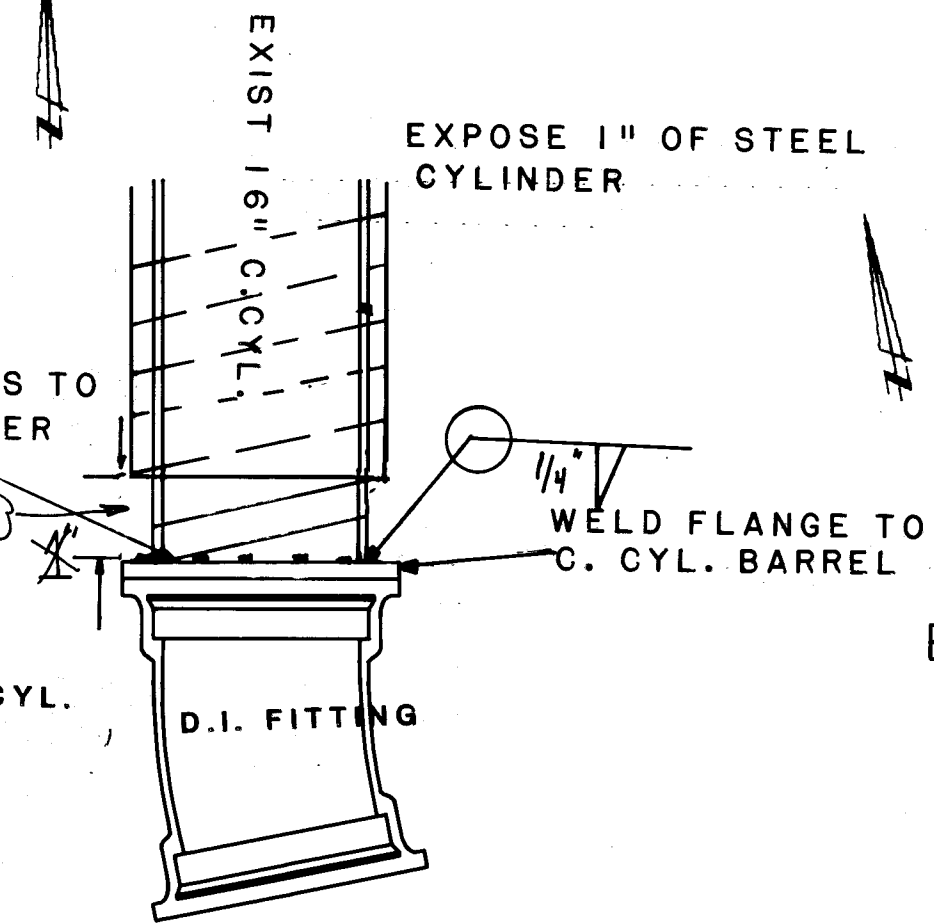
JOINT DETAIL



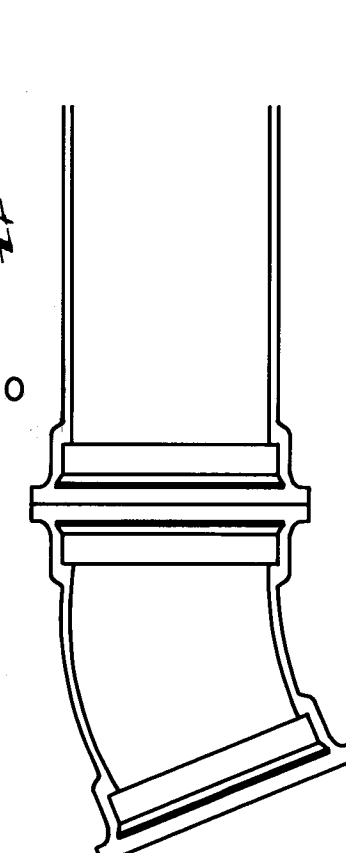
DRAWING N.T.S.



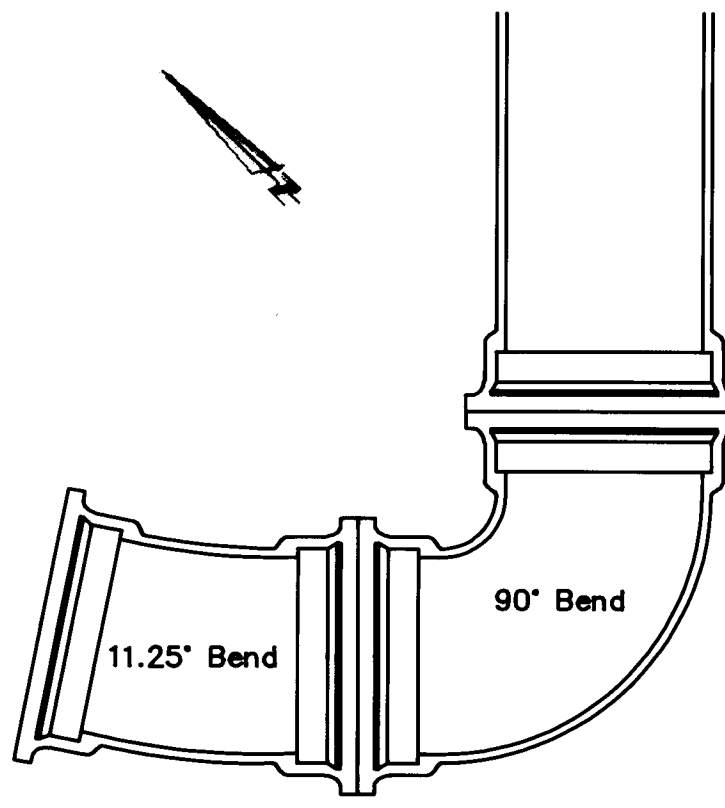
DRAWING N.T.S.



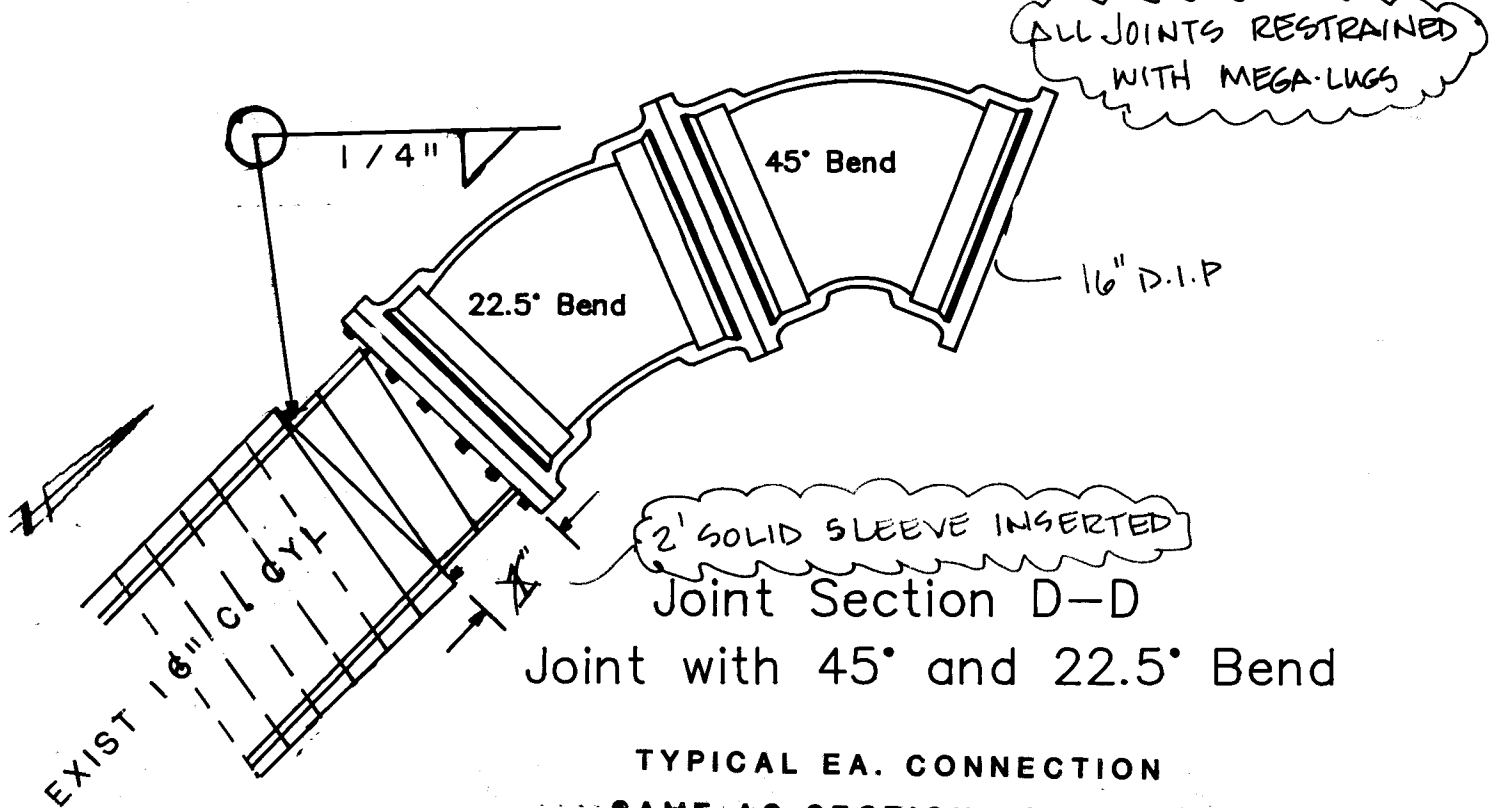
Joint Section A-A
Joint with 11.25° Bend
TYPICAL EA. CONNECTION



Joint Section C-C
Joint with 22.5° Bend



Joint Section B-B
Joint with 90° and 11.25° Bend

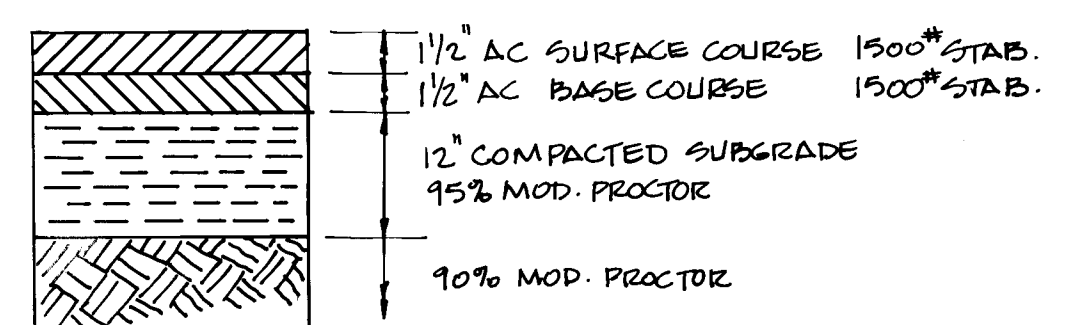


TYPICAL EA. CONNECTION
SAME AS SECTION JOINT A A

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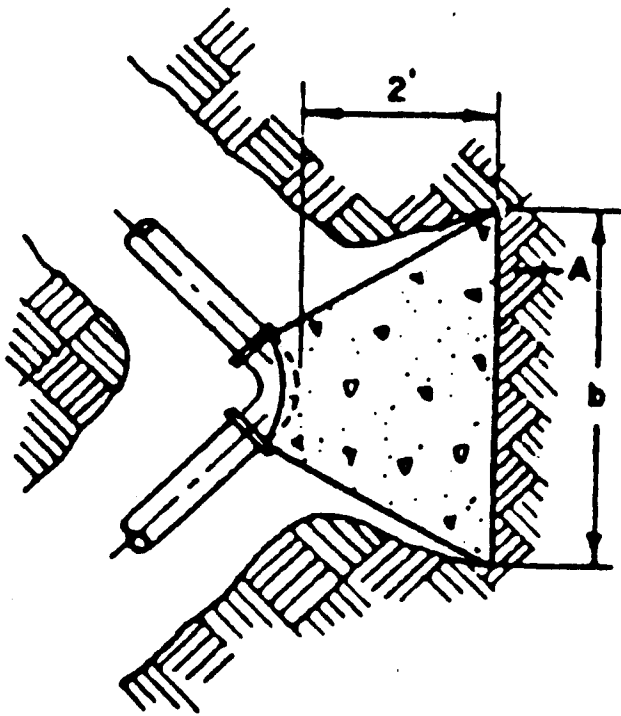
Paul Brasher P.E. 7282 Date

NOTE: Contractor has the option to weld a skirt to the cylinder, in lieu of the flange, and transition to ductile iron with a solid sleeve.
ID skirt = OD cylinder
OD skirt = OD ductile iron

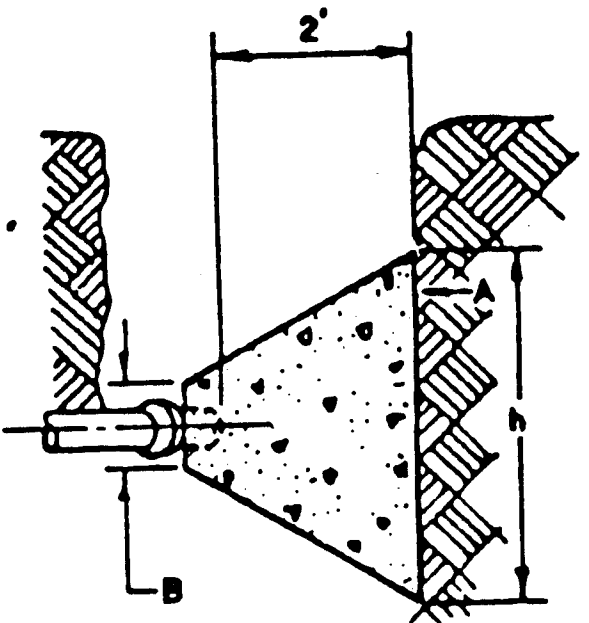


RESIDENTIAL PAVEMENT
REPLACEMENT SECTION

CONCRETE BLOCKING JOINT D-D



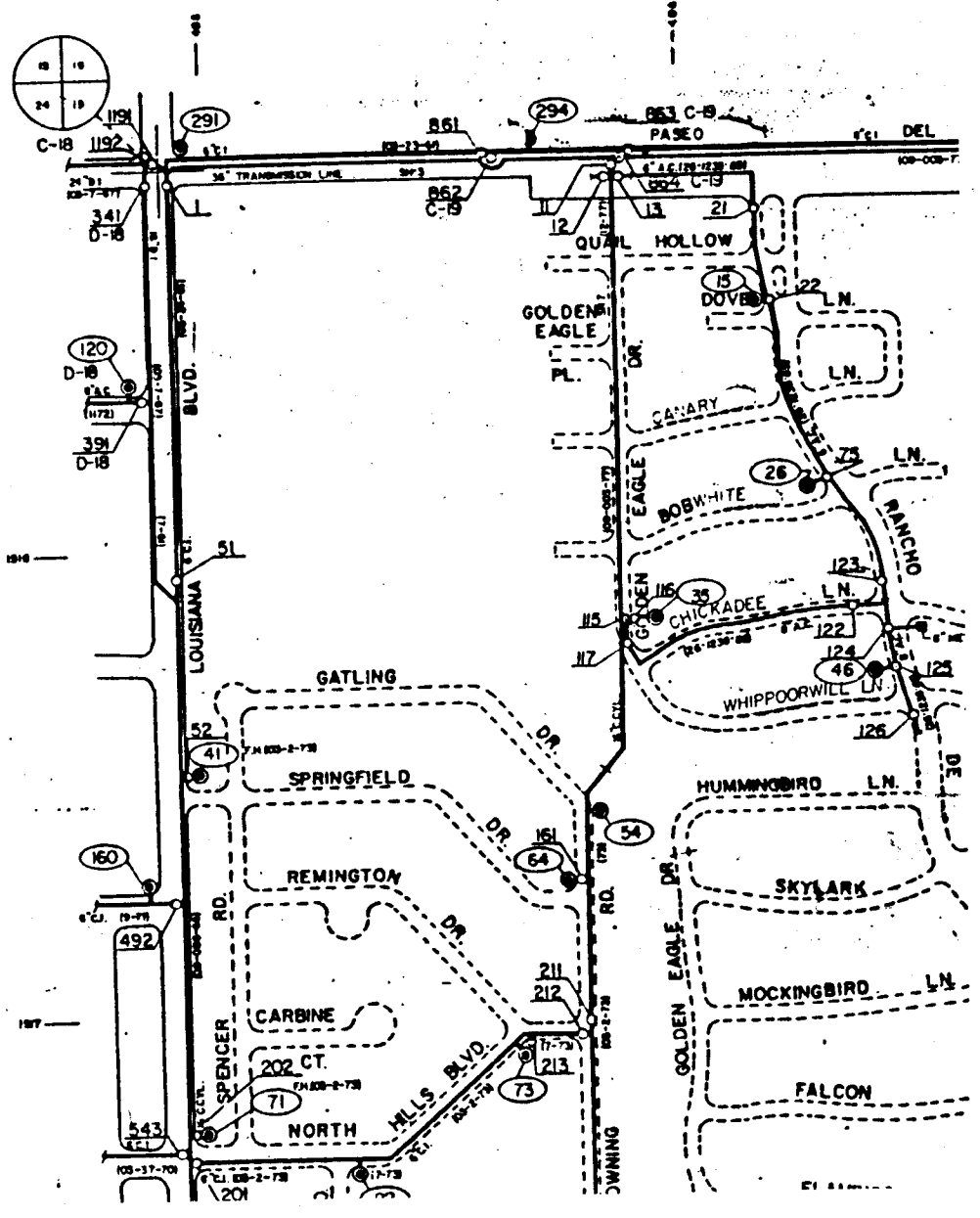
PLAN



ELEVATION
CONCRETE BLOCKING
FOR ELBOW

CONCRETE BLOCKING DESIGN				
PIPE SIZE	ELBOW ANGLE	ELBOW (b) DIM	ELBOW (h) DIM	
16"	45° 22.5°	6'	6'	

- CONSTRUCTION NOTES:
- A. UNDISTURBED EARTH
 - B. O.D. of pipe +8"
 - C. O.D. of cap or plug, min 12"x 12"
 - D. Provide HDPE liner to prevent conc. bond to pipe



- Valves, hydrants and Appurtenances of the city water system shall be operated by city personnel only.
- Contractor shall provide the city 72 hours advance notice of need for system shutdown. Call Water Systems Division (857-8200)
- System shutdown shall be accomplished by closing existing valves 11, 13, 115, and 211.
- Anticipated shutdown duration is eight (8) hours.

WATER SHUT-OFF PLAN

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 48 15 9 0 0 9 9 4

BRASHER ENGINEERING, INC.

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: GOLDEN EAGLE DRIVE 16" WATER RELOCATION CHANNEL DETAIL AND WATER SHUT-OFF PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIR	B.G. Brasher	12-28-93	WATER	R.W. Kane	12-28-93
TRANS. DEV.	V.A. RHO	12-28-93	WASTEWATER	R.W. Kane	12-28-93
HYDROLOGY	Paul Brasher	12-28-93			
PROJECT NO.	4815.90	MAP NO. D-19	SHEET 4	OF 4	