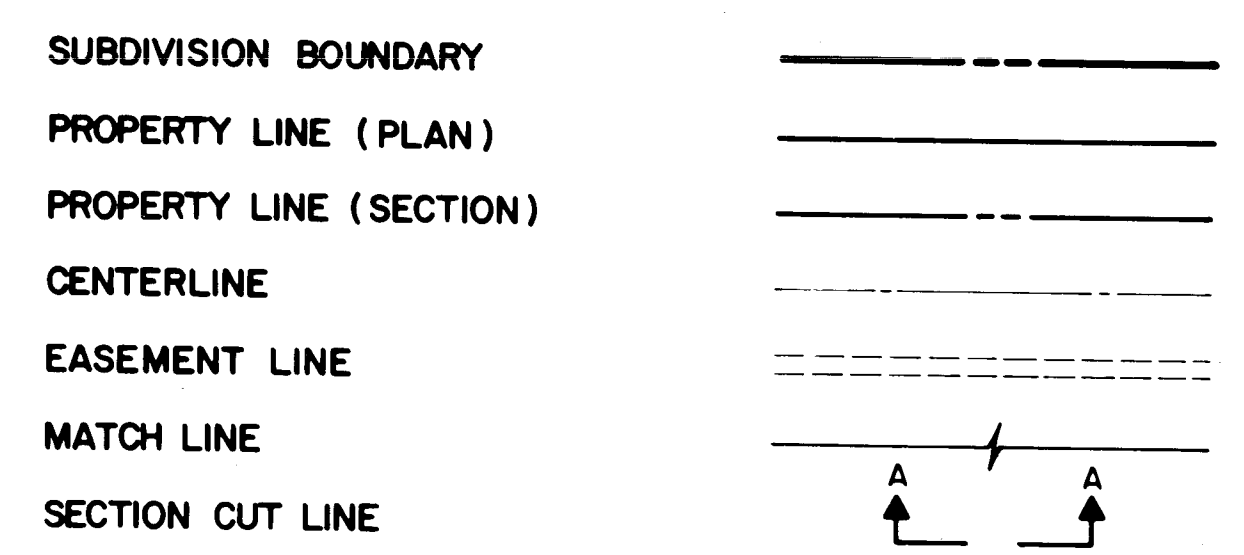


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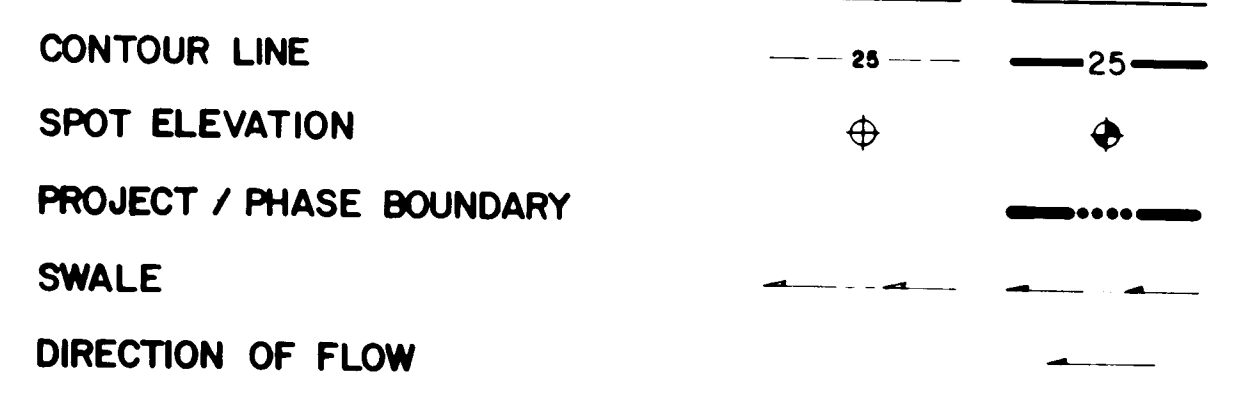
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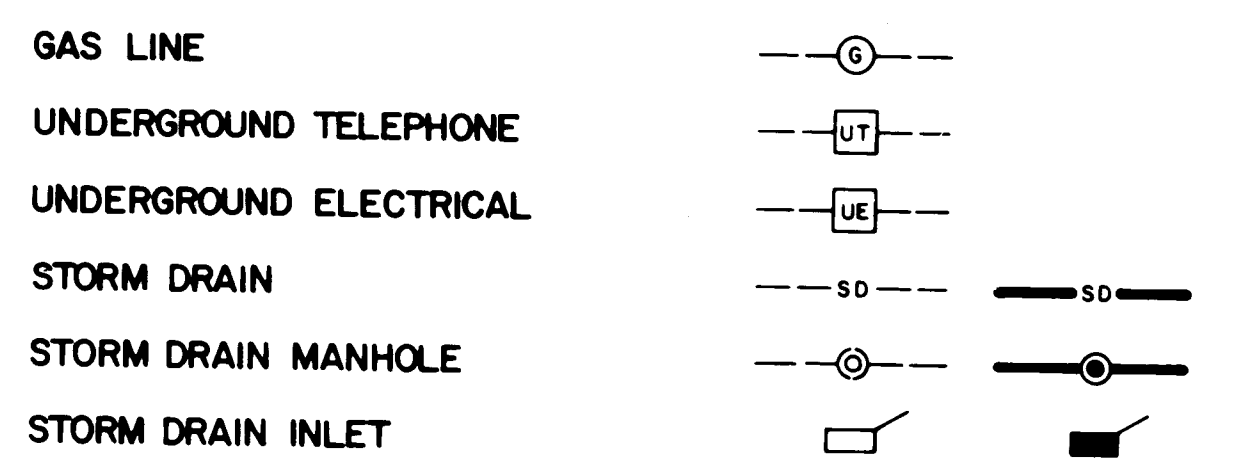
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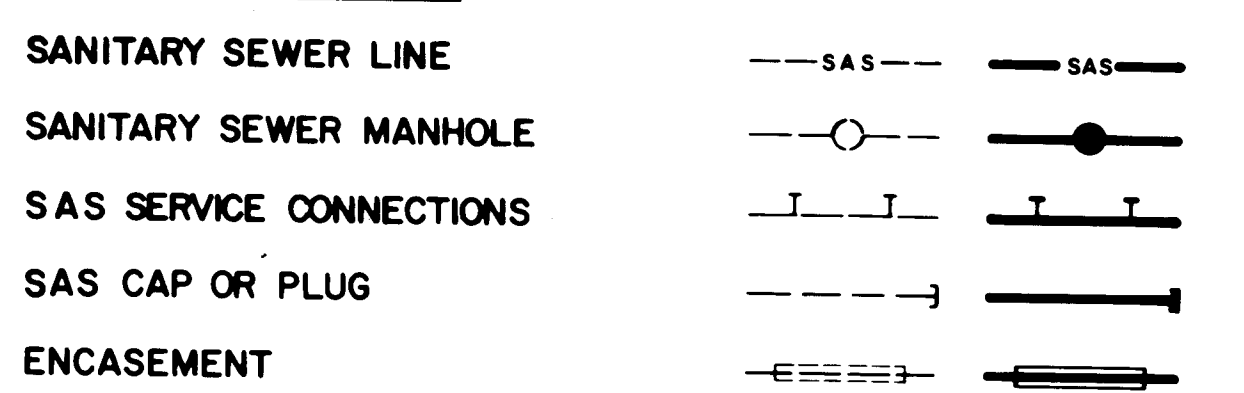
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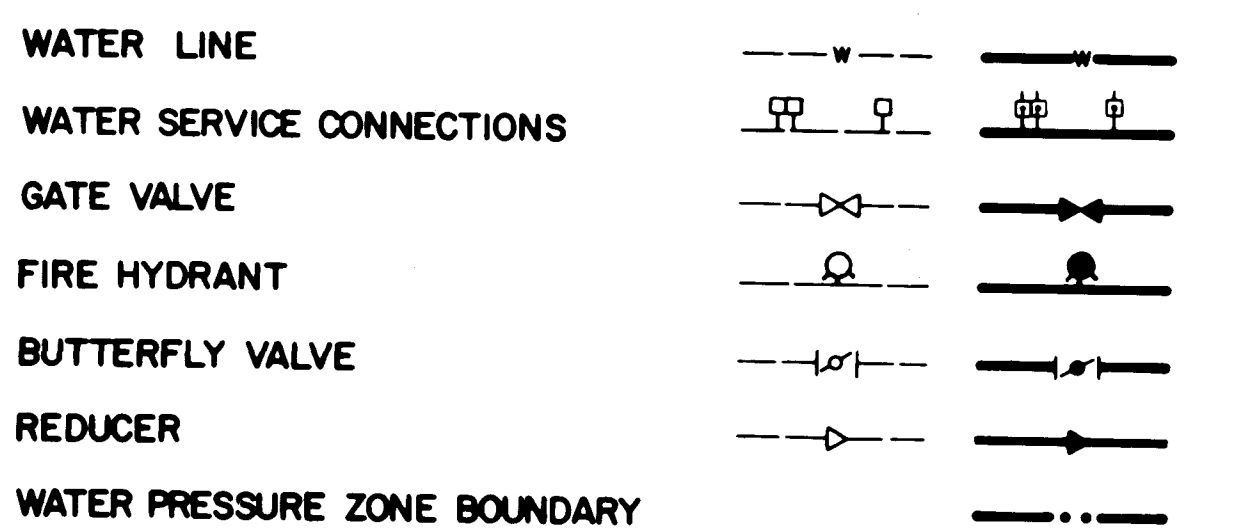
MISCELLANEOUS UTILITIES



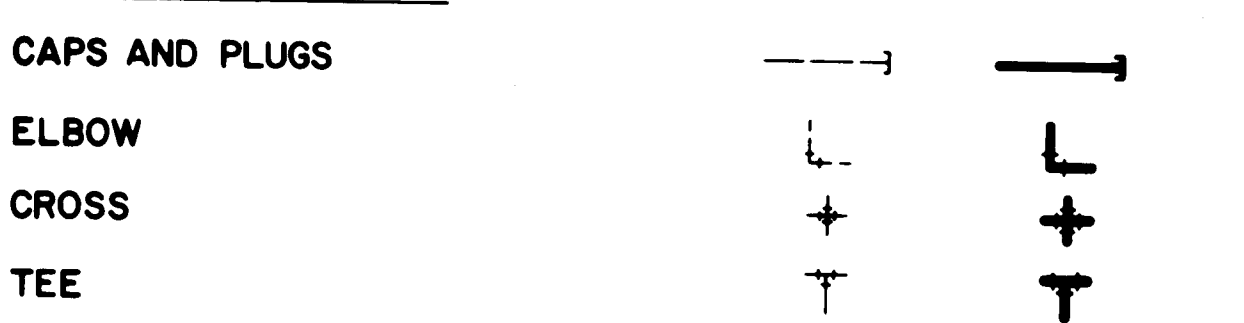
SANITARY SEWER



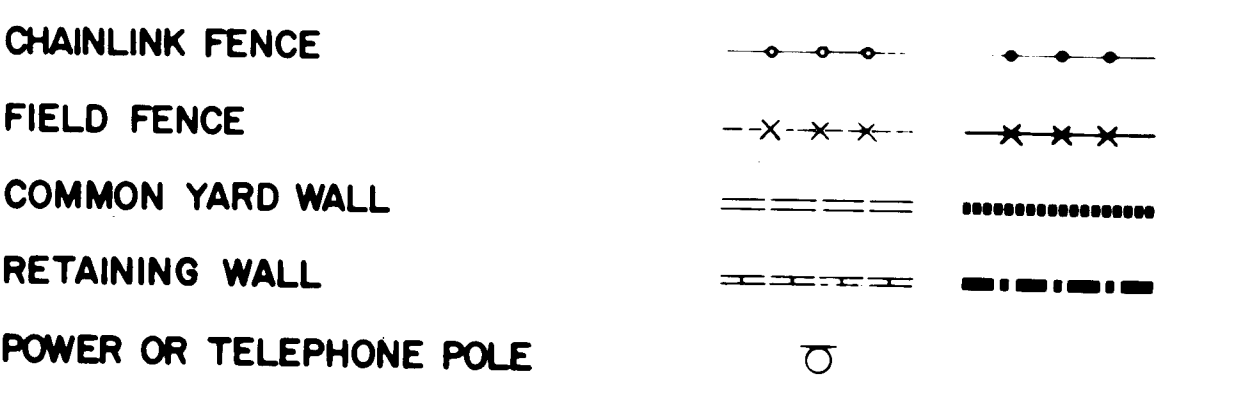
WATER



WATER FITTINGS



MISCELLANEOUS



RECORD DRAWING

CONSTRUCTION PLANS

FOR

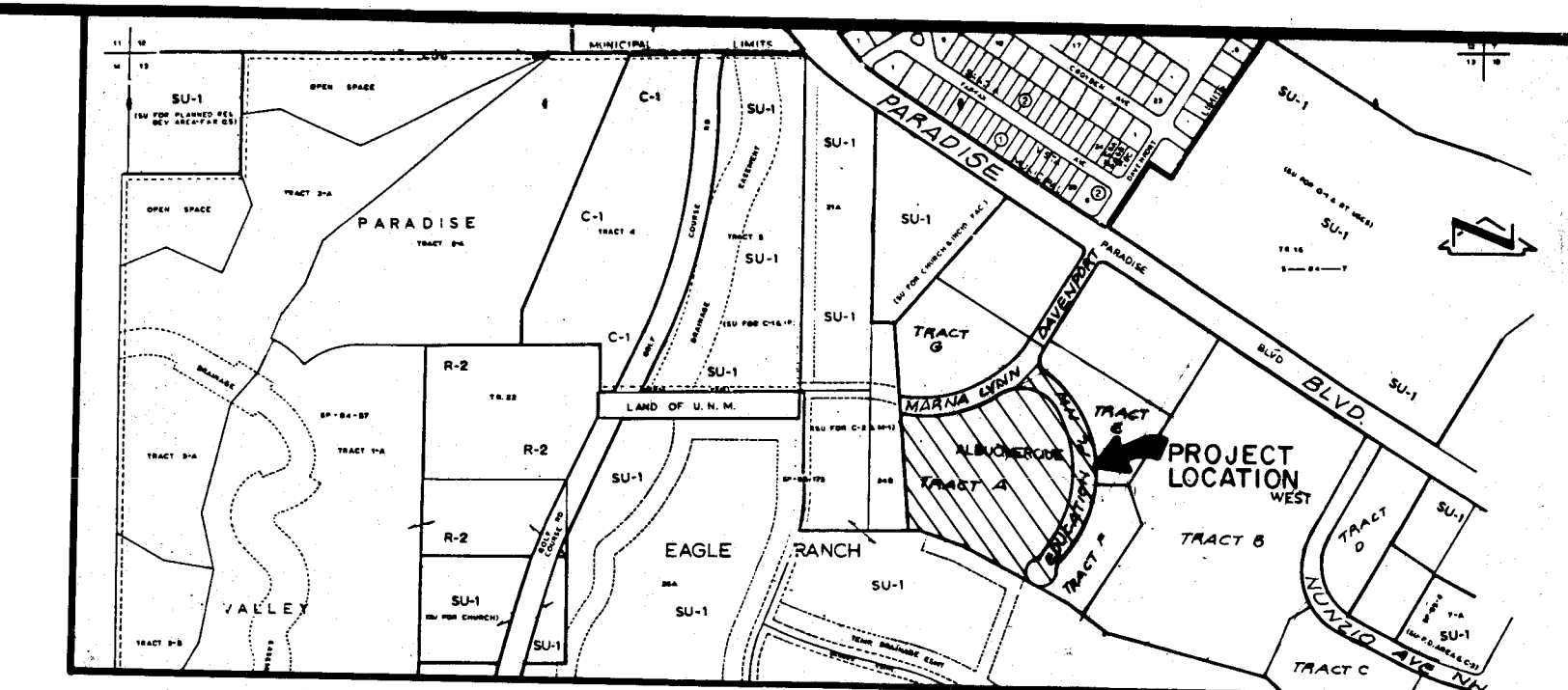
EDUCATION PLACE NW

ALBUQUERQUE, NEW MEXICO

MAY, 1991

INDEX OF DRAWINGS

- COVER SHEET, LEGEND, VICINITY MAP, GENERAL NOTES AND INDEX OF DRAWINGS
- SUBDIVISION PLAT
- SITE PLAN & BID SCHEDULE SUMMARY
- ALTERNATE PAVING SITE PLAN
- SECTIONS AND DETAILS
- PAVING IMPROVEMENTS PLAN & PROFILE
- EDUCATION PLACE N.W.
- WATERLINE EXTENSION PLAN & PROFILE
- EDUCATION PLACE N.W.
- ONSITE EASEMENT
- STORM DRAINAGE
- STORM DRAIN PLAN & PROFILE
- DRAINAGE EASEMENTS CROSS-SECTIONS
- HYDROLOGIC & HYDRAULIC CALCULATIONS



VICINITY MAP

NO SCALE

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. WATER IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NEW MEXICO UTILITIES, INC. - SPECIFICATIONS FOR WATER AND WASTE WATER FACILITIES - MARCH 2, 1990.
- 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 THEREON, 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 NEW MEXICO UTILITIES, INC. (898-2661) FOR THE LOCATION OF EXISTING UTILITIES AND 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.
- CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE ENGINEER. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE SPECIFICATIONS.
- 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 BARRICADING 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. REFER TO SECTION 19 OF THE SPECIFICATIONS.
- 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.

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
N.M.P.E. No. 8547

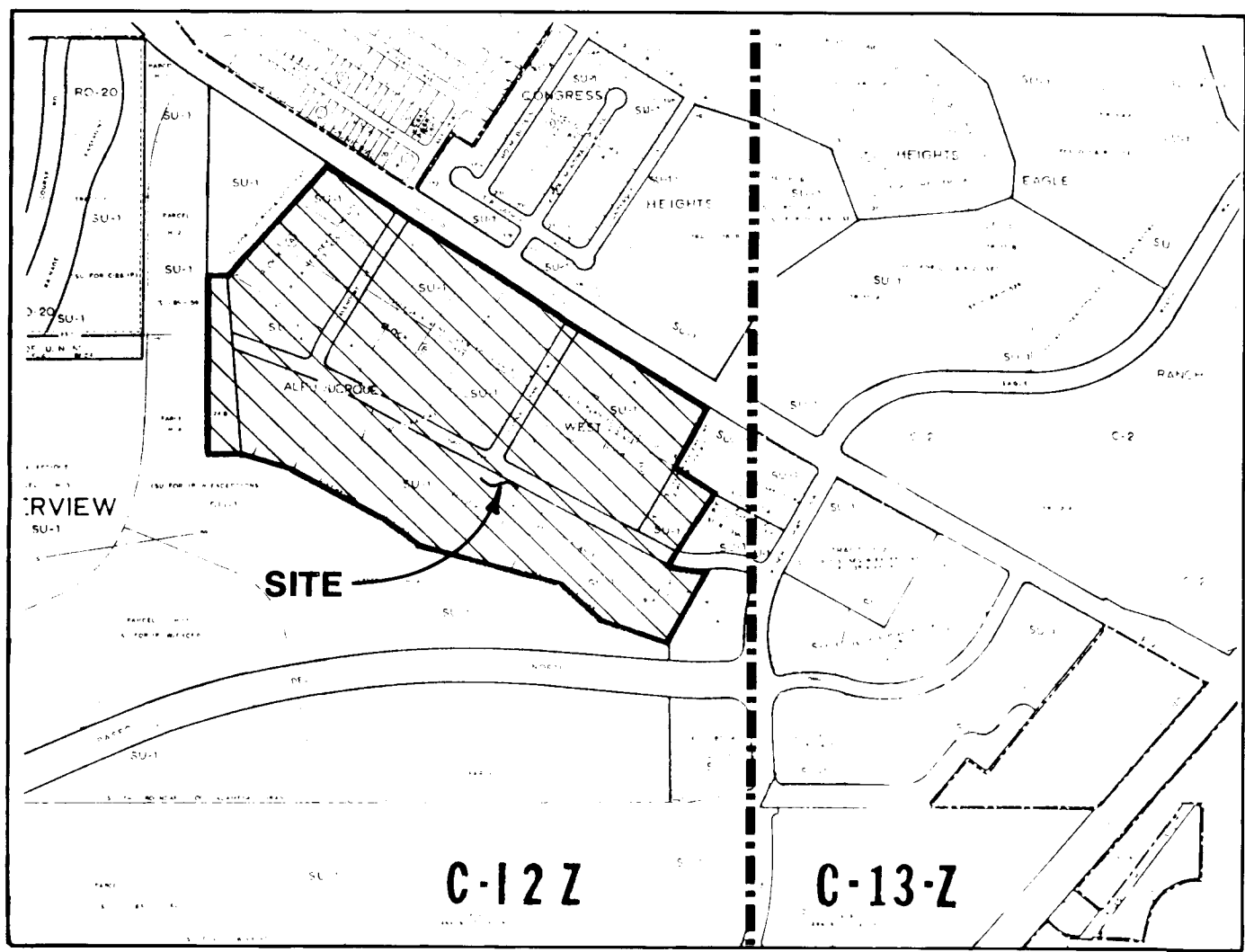
APPROVED FOR AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
Date 7/10/91

CAUTION:

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
26	37	97	19	10	19	1								

REV	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
APPROVAL OF REVISIONS							
APPROVED FOR CONSTRUCTION							
PROJECT NO. 3791.91							
SHEET 1 OF 12							



VICINITY MAP (C-12,13)

SUBDIVISION DATA

- Gross parcel area: 49.3335 ac.
- Number of existing lots: 27
- Number of tracts/lots created: 8
- Length of roadways vacated: 2,705 LF
- Length of roadways dedicated: 1,915 LF
- Bearing base used to prepare this plat is from the plat entitled "A Subdivision of RIVERVIEW and including the vacation and relocation of prior easements and right-of-way", filed in the Bernalillo County Clerk's Office, NM on June 27, 1986 in Book C30, Page 178.
- Distances shown are horizontal ground distances
- Curved lines are addressed numerically in curve tables where applicable
- Field survey was performed during January 1990

NOTES

A variance or waiver from certain subdivision requirements has been granted by the City and the Albuquerque Metropolitan Arroyo Flood Control Authority in connection with this plat. Details of the variance or waiver were filed in the office of the County Clerk of Bernalillo County, New Mexico, on 3-8-90, in Book 70-4, page 5574-5575.

Future subdivision of lands within this plat, zoning site development plan approvals, and development permits may be conditioned upon dedication of rights-of-way and easements, and/or upon infrastructure improvements by the owner for water, sanitary sewer, streets, drainage, grading and parks in accordance with current resolutions, ordinances and policies in effect at the time for any specific proposal.

The City (and AMAFCA with reference to drainage) may require and/or permit easements to be added, modified or removed when future plats or site development plans are approved.

By its approval the City makes no representation or warranties as to availability of utilities, or final approval of all requirements including (but not limited to) the following items: water and sanitary sewer availability; future street dedications and/or improvements; park and open space requirements; drainage requirements and/or improvements and excavation, filling or grading requirements. Any person intending development of lands within this subdivision is cautioned to investigate the status of these items.

DESCRIPTION

THAT CERTAIN PARCEL OF LAND SITUATE WITHIN THE TOWN OF ALAMEDA GRANT (PROJECTED SECTION 13) T. 11 N., R. 2 E., N.M.P.M. AND BEING COMPRISED OF THE FOLLOWING TRACTS:

LOTS 3 AND 4, BLOCK A; LOTS 4 THROUGH 10, BLOCK B; LOTS 1 THROUGH 6, R AND 9, BLOCK C; LOTS 1 THROUGH 8, BLOCK D; ALL OR PORTIONS OF NUNZIO AVENUE AND DAVENPORT STREET AND MARNA LYNN DRIVE AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT ENTITLED "ALBUQUERQUE WEST, A SUBDIVISION IN PARADISE HILLS DEVELOPMENT WITHIN THE TOWN OF ALAMEDA GRANT, BERNALILLO COUNTY, NEW MEXICO," FILED FOR RECORD IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON NOVEMBER 21, 1984, IN BOOK C25, PAGE 138.

TRACT 24B, EAGLE RANCH, ALBUQUERQUE, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE "REPLAT OF TRACTS 21, 24 AND 26, EAGLE RANCH, TO TRACTS 21A, 24A, 24B AND 26A, EAGLE RANCH," FILED FOR RECORD IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON APRIL 17, 1985, IN BOOK C27, PAGE 4.

LOT 9-A, BLOCK D, AS THE SAME IS SHOWN AND DESIGNATED ON THE REPLAT OF LOT 7-A-3, BLOCK C AND LOTS 9 AND 10, BLOCK D, ALBUQUERQUE WEST, TOGETHER WITH A VACATED PORTION OF NUNZIO AVENUE, RM, ALBUQUERQUE, NEW MEXICO, JUNE 1987, AS FILED FOR RECORD IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON DECEMBER 7, 1987, IN BOOK C35, PAGE 64.

BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF SAID LOT 9-A, BLOCK D, ALBUQUERQUE WEST, FROM WHENCE THE CORPS OF ENGINEERS METAL TABLE STAMPED R, ALAMEDA B. NO. 2 BEARS S 23°31'40" E, A DISTANCE OF 1,584.70 FEET;
THENCE, N 69°44'41" W, A DISTANCE OF 300.00 FEET ALONG THE SOUTHERLY LINE OF SAID LOT 9-A, BEING THE SAME AS THE NORTHERLY BOUNDARY OF PARCEL H-4, RIVERVIEW SUBDIVISION, TO THE SOUTHWEST CORNER OF SAID LOT 9-A, BLOCK D;
THENCE, N 45°44'41" W, A DISTANCE OF 200.00 FEET TO THE SOUTHWEST CORNER OF SAID LOT 8;
THENCE, N 74°14'41" W, A DISTANCE OF 625.00 FEET TO AN ANGLE POINT ON THE SOUTHERLY BOUNDARY OF SAID LOT 5;
THENCE, N 51°44'41" W, A DISTANCE OF 185.00 FEET TO THE SOUTHWEST CORNER OF SAID LOT 5;
THENCE, N 62°29'21" W, A DISTANCE OF 473.25 FEET TO AN ANGLE POINT ON THE SOUTHERLY BOUNDARY OF SAID LOT 2;
THENCE, N 71°35'07" W, A DISTANCE OF 231.20 FEET TO THE SOUTHWEST CORNER OF SAID LOT 1, BLOCK D AND BEING COMMON WITH THE SOUTHEAST CORNER OF SAID TRACT 24B, EAGLE RANCH;
THENCE, N 89°20'29" W, A DISTANCE OF 132.09 FEET TO THE SOUTHWEST CORNER OF SAID TRACT 24B;
THENCE, N 00°20'12" E, A DISTANCE OF 798.38 FEET TO THE NORTHWEST CORNER OF SAID TRACT 24B;
THENCE, S 89°39'48" E, A DISTANCE OF 91.41 FEET TO THE NORTHEAST CORNER OF SAID TRACT 24B ALSO BEING COMMON WITH THE SOUTHWEST CORNER OF SAID LOT 3, BLOCK A;
THENCE, N 41°25'48" E, A DISTANCE OF 210.02 FEET TO THE NORTHWEST CORNER OF SAID LOT 3;
THENCE, S 57°32'20" E, A DISTANCE OF 502.56 FEET TO A POINT ON THE WESTERLY BOUNDARY OF SAID LOT 4, BLOCK B;
THENCE, N 32°27'40" E, A DISTANCE OF 35.95 FEET TO THE NORTHWEST CORNER OF SAID LOT 4;
THENCE, S 57°32'20" E, A DISTANCE OF 518.47 FEET TO THE NORTHEAST CORNER OF SAID LOT 6;
THENCE, N 32°53'54" E, A DISTANCE OF 363.58 FEET TO THE NORTHWEST CORNER OF SAID LOT 10 BEING ON THE SOUTHERLY RIGHT-OF-WAY LINE OF PARADISE BOULEVARD;
THENCE, ALONG THE ARC OF A CURVE TO THE RIGHT A DISTANCE OF 56.06 FEET, SAID CURVE HAVING A CENTRAL ANGLE OF 00°29'40", A RADIUS OF 6,495.09 FEET, A CHORD BEARING OF S 55°28'40" E AND A CHORD LENGTH OF 56.06 FEET;
THENCE, S 55°13'50" E, A DISTANCE OF 503.05 FEET ALONG SAID RIGHT-OF-WAY TO THE NORTHWEST CORNER OF SAID LOT 9, BLOCK C, ALSO BEING THE BEGINNING OF A CURVE TO THE LEFT HAVING A CENTRAL ANGLE OF 04°14'36" AND A RADIUS OF 2,917.79 FEET;
THENCE, ALONG THE ARC OF THE CURVE A DISTANCE OF 216.09 FEET TO THE NORTHEAST CORNER OF SAID LOT 9;
THENCE, S 59°28'26" E, A DISTANCE OF 226.24 FEET TO THE NORTHEAST CORNER OF SAID LOT 8;
THENCE, S 30°31'35" W, A DISTANCE OF 307.00 FEET TO THE SOUTHEAST CORNER OF SAID LOT 8;
THENCE, S 55°33'08" E, A DISTANCE OF 200.47 FEET TO THE NORTHEAST CORNER OF SAID LOT 6;
THENCE, S 30°31'35" W, A DISTANCE OF 355.79 FEET TO A POINT OF NON-TANGENCY AND THE BEGINNING OF A CURVE TO THE LEFT HAVING A CENTRAL ANGLE OF 25°18'50", A RADIUS OF 410.00 FEET, A CHORD BEARING OF S 82°52'45" E, AND A CHORD LENGTH OF 179.67 FEET;
THENCE, ALONG THE ARC OF THE CURVE A DISTANCE OF 181.14 FEET, SAID ARC BEING ALONG A PORTION OF THE SOUTHERLY RIGHT-OF-WAY LINE OF NUNZIO AVENUE;
THENCE, S 28°54'49" W, A DISTANCE OF 383.91 FEET ALONG THE EASTERLY PROPERTY LINE OF SAID LOT 9-A, BLOCK D, TO THE SOUTHEAST CORNER AND POINT OF BEGINNING OF THE TRACT HEREIN DESCRIBED, CONTAINING 49.3335 ACRES MORE OR LESS.

ACKNOWLEDGEMENT

ON THIS 29th DAY OF January, 1990, THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME BY THOMAS O. ISAACSON, N.M.P.E & L.S. NO. 3895 FOR ISAACSON & ARFMAN, P.A.

Nancyann Allen
NOTARY PUBLIC

8-29-92

9018004
PLAT OF
ALBUQUERQUE WEST, UNIT 1
WITHIN PROJECTED SECTION 13, T 11 N, R 2 E, N.M.P.M.
TOWN OF ALAMEDA GRANT
ALBUQUERQUE NEW MEXICO
JANUARY 1990

SUBDIVISION CASE NO. 7-90-61

APPROVALS

J. P. White 1-19-90
NEW MEXICO UTILITIES, INC. DATE
Rob Roberts 1-23-90
PUBLIC SERVICE CO. OF NEW MEXICO DATE
Joseph A. Rice 1-11-90
SAS CO. OF NEW MEXICO DATE
J. B. Henderson 1-16-90
U.S. WEST COMMUNICATIONS DATE
Karen Jaramila 1-11-90
JONES INTERCABLE DATE
David W. Thomas 1-11-90
TRAFFIC ENGINEER, TRANSPORTATION DEV. DIV. DATE
James M. Kline 2-6-90
PARK AND RECREATION DEPT. DATE
David Clark 02-04-90
CHIEF CITY SURVEYOR, ENGINEERING DIV. DATE
W. J. Altman 2-6-90
UTILITY DEVELOPMENT DIV., PUBLIC WORKS DEPT. DATE
Rosie Shull 2-6-90
REAL PROPERTY DIV. DATE
Tom J. Leggett 2-21-90
A.M.A.F.C.A. DATE
Tom J. Leggett 2-21-90
CITY ENGINEER, PUBLIC WORKS DEPT. DATE

APPROVAL AND CONDITIONAL ACCEPTANCE AS SPECIFIED BY THE ALBUQUERQUE SUBDIVISION ORDINANCE, ARTICLE XI OF CHAPTER 7 OF THE REVISED ORDINANCES OF ALBUQUERQUE, N.M.

James M. Kline 2-6-90
CITY PLANNER, ALBUQUERQUE PLANNING DIV. DATE

CERTIFICATION

I, THOMAS O. ISAACSON, A REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR, UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THIS PLAT WAS PREPARED BY ME OR UNDER MY SUPERVISION; SHOWS ALL EASEMENTS NOTED IN A TITLE REPORT PREPARED BY ALBUQUERQUE TITLE CO., INC. DATED DECEMBER 5, 1989, 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. THE BOUNDARY SURVEY USED FOR THE PREPARATION OF THIS PLAT WAS ACCOMPLISHED BY SKIP CARLTON, OF COMMUNITY SCIENCES CORP., LS #7270, SEE CERTIFICATION ON SHEET 2.

Thomas O. Isaacson 1/29/90
THOMAS O. ISAACSON DATE
N.M.P.E & L.S. #3895
FOR ISAACSON & ARFMAN, P.A.

PUBLIC UTILITY EASEMENTS

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 ANY OTHER EQUIPMENT, FIXTURES, STRUCTURES AND RELATED FACILITIES REASONABLY NECESSARY TO PROVIDE ELECTRICAL SERVICE.
- U.S. WEST FOR THE INSTALLATION, MAINTENANCE AND SERVICE OF ALL 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 INTERCABLE FOR THE INSTALLATION, MAINTENANCE, AND SERVICE OF SUCH LINES, CABLE, AND OTHER RELATED EQUIPMENT AND FACILITIES REASONABLY NECESSARY TO PROVIDE CABLE TV SERVICE.
- GAS COMPANY OF NEW MEXICO FOR THE INSTALLATION, MAINTENANCE AND SERVICE OF SUCH DISTRIBUTION AND SERVICE LINES AND FACILITIES REASONABLY NECESSARY TO PROVIDE GAS 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 OR OTHER STRUCTURE SHALL BE ERRECTED 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 NATIONAL ELECTRIC SAFETY CODE CAUSED BY CONSTRUCTION OF POOLS, DECKING, OR ANY STRUCTURES ADJACENT TO OR NEAR EASEMENTS SHOWN ON THIS PLAT.

WATER & SANITARY SEWER

THESE PROPERTIES ARE WITHIN THE NEW MEXICO UTILITIES, INC. (NMU, INC.) FRANCHISE AREA. WATER AND SANITARY SEWER SYSTEM CAPABILITIES ARE BASED ON THE NMU, INC. FACILITIES, NOT THE CITY OF ALBUQUERQUE. WATER AND SANITARY SEWER INFRASTRUCTURE IMPROVEMENTS MUST, HOWEVER, BE APPROVED BY BOTH CITY OF ALBUQUERQUE AND NMU, INC.

PNM EASEMENT RELEASE

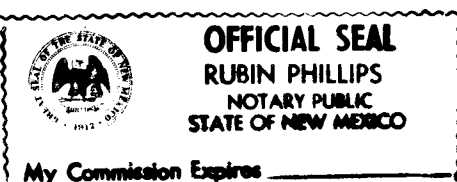
PUBLIC SERVICE COMPANY OF NEW MEXICO DOES HEREBY RELEASE, WAIVE, QUITCLAIM AND DISCHARGE ITS RIGHT, TITLE AND INTEREST IN THE EASEMENTS SHOWN TO BE VACATED ON THIS PLAT.

PUBLIC SERVICE COMPANY OF NEW MEXICO

BY: Rob Roberts

STATE OF NEW MEXICO
COUNTY OF BERNALILLO

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS 23rd DAY OF January, 1990, BY Rob Roberts OF THE PUBLIC SERVICE COMPANY OF NEW MEXICO, A NEW MEXICO CORPORATION, ON BEHALF OF SAID CORPORATION.



Ruben Phillips
NOTARY PUBLIC
MY COMMISSION EXPIRES: 8-9-93

FREE CONSENT & DEDICATION

THE UNDERSIGNED OWNERS AND PROPRIETORS OF THE PROPERTY DESCRIBED HEREON DO HEREBY CONSENT TO THE PLATTING OF SAID PROPERTY AS SHOWN HEREON AND DO HEREBY DEDICATE THE RIGHTS-OF-WAY FOR PUBLIC THOROUGHFARES AS INDICATED AND GRANT THOSE EASEMENTS AS SHOWN HEREON IN ACCORDANCE WITH THEIR APPLICABLE DEDICATION STATEMENTS AS SHOWN HEREON AND THE SAME IS WITH THE FREE CONSENT AND IN ACCORDANCE WITH THEIR DESIRES AND DO HEREBY REPRESENT THAT THE UNDERSIGNED INDIVIDUALS ARE AUTHORIZED TO SO ACT.

Tr. 24B, EAGLE RANCH; & A PORTION OF ALBUQUERQUE WEST EXCLUDING LOT 6, BLK C: OWNERS: GRAND ALLIANCE I, A NEW MEXICO GENERAL PARTNERSHIP, R.J. SCHAEFER, MANAGING GENERAL PARTNER
GRAND ALLIANCE II, A NEW MEXICO GENERAL PARTNERSHIP, R.J. SCHAEFER, MANAGING GENERAL PARTNER

R.J. Schaefer 1/8/90
R.J. SCHAEFER, MANAGING DATE
GENERAL PARTNER

LOT 6, BLOCK C, ALBUQUERQUE WEST:
OWNER: ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

Larry A. Blair 30 January 1990
EXECUTIVE ENGINEER DATE

ACKNOWLEDGEMENTS

ON THIS 8th DAY OF January, 1990, THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME BY R.J. SCHAEFER, KNOWN TO ME TO BE THE MANAGING GENERAL PARTNER OF GRAND ALLIANCE I & GRAND ALLIANCE II, NEW MEXICO GENERAL PARTNERSHIPS.

Nancyann Allen 8/29/92
NOTARY PUBLIC

ON THIS 30 DAY OF January, 1990, THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME BY LARRY A. BLAIR KNOWN TO ME TO BE THE EXECUTIVE ENGINEER OF ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY, A POLITICAL SUBDIVISION OF THE STATE OF NEW MEXICO.

Larry A. Blair 24 May 1992
My Commission Expires 24 May 1992
NOTARY PUBLIC

DISCLOSURE STATEMENT

THE INTENT OF THIS PLAT IS TO VACATE PORTIONS OF NUNZIO AVE., DAVENPORT ST., AND MARNA LYNN DR., A PORTION OF THE NORTHWEST MESA SEWER EASEMENT, A PORTION OF N.M.U.I.'S 30 FOOT SANITARY SEWER EASEMENT, TEMPORARY PONDING EASEMENTS, DRAINAGE, AND UTILITY EASEMENTS. LOT LINES ARE BEING ELIMINATED TO CREATE LARGER TRACTS, AND RIGHTS-OF-WAY ARE BEING DEDICATED. TRACT 24B OF EAGLE RANCH IS BEING INCORPORATED INTO ALBUQUERQUE WEST BY THIS PLAT.

SURVEYOR'S CERTIFICATE

I, L.A. CARLETON, JR., HEREBY CERTIFY THAT THE BOUNDARY SURVEY SHOWN HEREON WAS PREPARED BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



L.A. Carleton, Jr. 2/6/90
L.A. CARLETON, JR. DATE
N.M.L.S. NO. 7270

ACKNOWLEDGEMENT

ON THIS 6th DAY OF February, 1990, THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME BY L.A. CARLETON, JR.

L.A. Carleton, Jr.
NOTARY PUBLIC

5-24-93

9018004
PLAT OF
ALBUQUERQUE WEST, UNIT 1
WITHIN PROJECTED SECTION 13, T 11 N, R 2 E, N.M.P.M.
TOWN OF ALAMEDA GRANT
ALBUQUERQUE NEW MEXICO
JANUARY 1990

JANUARY 1990

4-23 A 67 90

SURVEYOR'S CERTIFICATE

I, L.A. CARLETON, JR., HEREBY CERTIFY THAT THE BOUNDARY SURVEY SHOWN HEREON WAS PREPARED BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



L.A. Carleton, Jr. 2/6/90
L.A. CARLETON, JR. DATE
N.M.L.S. NO. 7270

ACKNOWLEDGEMENT

ON THIS 6th DAY OF February, 1990, THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME BY L.A. CARLETON, JR.

L.A. Carleton, Jr.
NOTARY PUBLIC

5-24-93

PARCEL H-2
RIVERVIEW SUBDIVISION

MARNA LYNN AVENUE

TRACT G

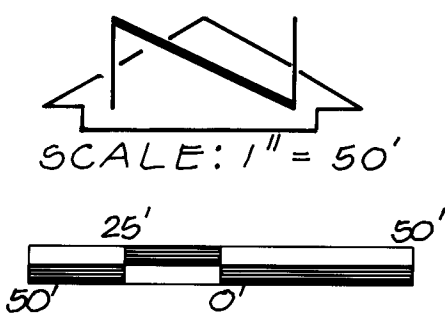
TRACT A
(ALBUQUERQUE PUBLIC SCHOOLS ELEMENTARY SCHOOL SITE)

TO PARADISE
BLVD. N.W.

EDUCATION
PLACE N.W.

TRACT E

TRACT F



EXISTING IMPROVEMENTS
PER CITY PROJECT
No. 3791.90 (SEE NOTE 2)

EXIST. 6" SAS
SERVICE
(CITY PROJECT
NO. 3791.90)

20' SAS EASEMENT

NEW 20' WATERLINE EASEMENT

NEW 20' WATERLINE EASEMENT

DETAIL 1/6 SIM.

RECORD DRAWING

BID SCHEDULE SUMMARY			
Bid Schedule	Base Bid	Work Description	Other
A	Yes	Paving and Drainage	N/A
B	Yes	Paving	N/A
C	Yes	Water	N/A
D	No	Paving	Add. Alt. No. 1
E	No	Paving	Add. Alt. No. 2

CURVE	ARC	DELTA	RADIUS	CHORD LENGTH	CHORD BEARING	TAN LENGTH	LINE	BEARING	DISTANCE
C1	43.02	82°09'45"	30.00	39.43	S 85°10'31" E	26.15	L1	S 44°05'39" E	78.90
C2	38.84	14°50'05"	150.00	38.73	S 36°40'36" E	19.53	L2	S 25°54'21" W	88.69
C3	38.84	14°50'06"	150.00	38.73	S 36°40'33" E	19.53	L3	N 32°27'40" E	9.66
C4	38.84	14°50'06"	150.00	38.73	S 18°29'18" W	19.53	L4	N 64°05'39" W	20.00
C5	38.84	14°50'06"	150.00	38.73	S 18°29'18" W	19.53	L5	N 0°20'12" E	30.00
C6	33.31	63°36'44"	30.00	31.62	S 57°42'43" W	18.61	L6	N 0°20'12" E	30.00
C7	159.18	192°00'26"	60.00	116.44	S 13°30'53" W	240.70	L7	N 32°27'40" E	9.66
C8	14.28	27°15'58"	30.00	14.14	S 12°16'22" W	7.28	L8	S 57°32'20" E	30.00
							L9	S 57°32'20" E	30.00
							L10	S 32°27'40" W	9.66

NOTES:

- ALL WORK SHALL BE CONSTRUCTED AS PART OF BID SCHEDULE "A" EXCEPT THAT PORTION FOR WHICH COST SHARING HAS BEEN DESIGNATED.
- CITY PROJECT NO. 3791.90 SHALL BE CONSIDERED AS EXISTING FOR THE PURPOSE OF THIS CONTRACT.
- REFER TO SHEET 6 FOR SECTIONS AND DETAILS.
- REFER TO SHEET 5 FOR WORK UNDER ADDITIVE ALTERNATE NO. 2.

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.



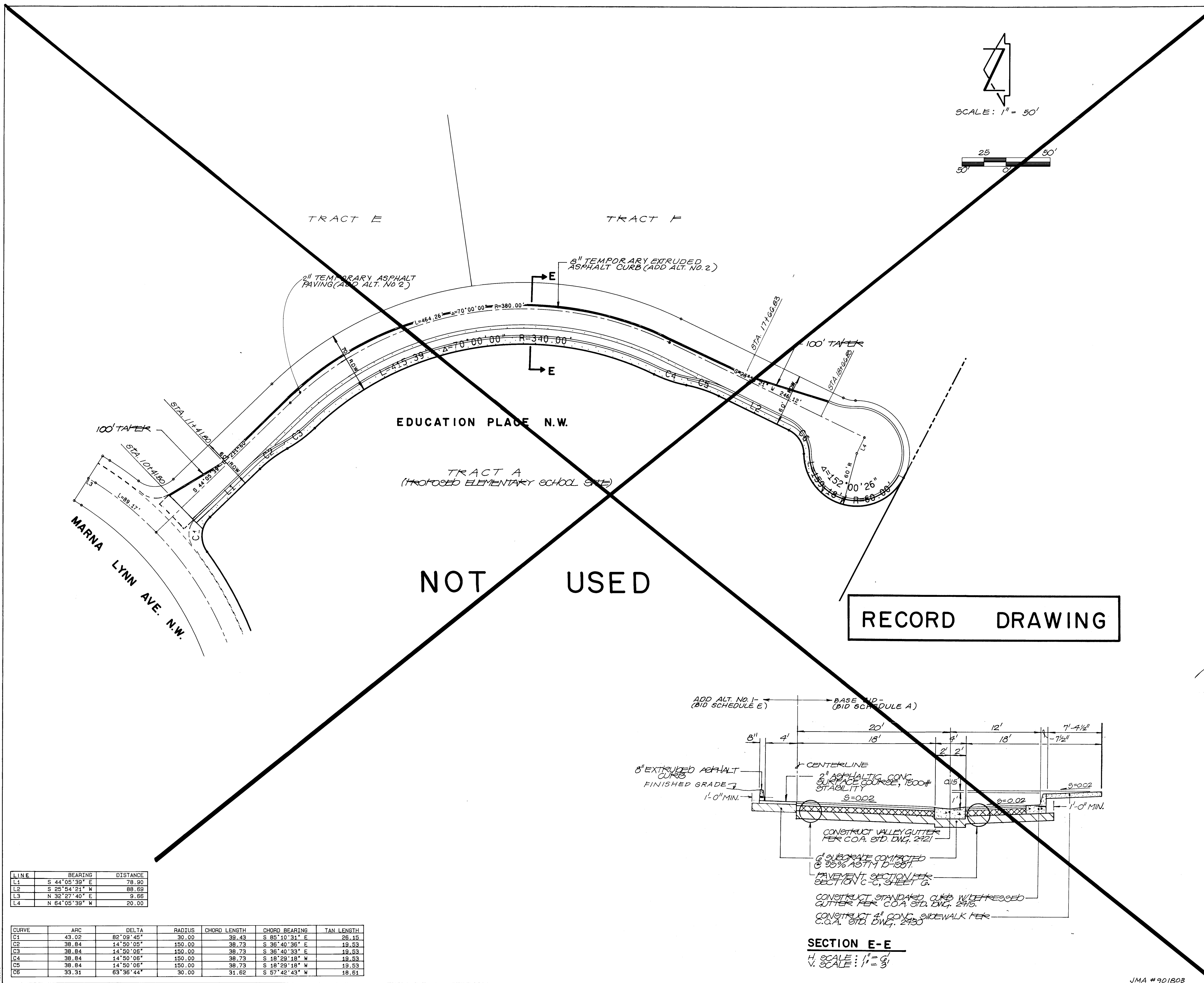
LEGEND

COST SHARING
(BID SCHEDULE B)

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

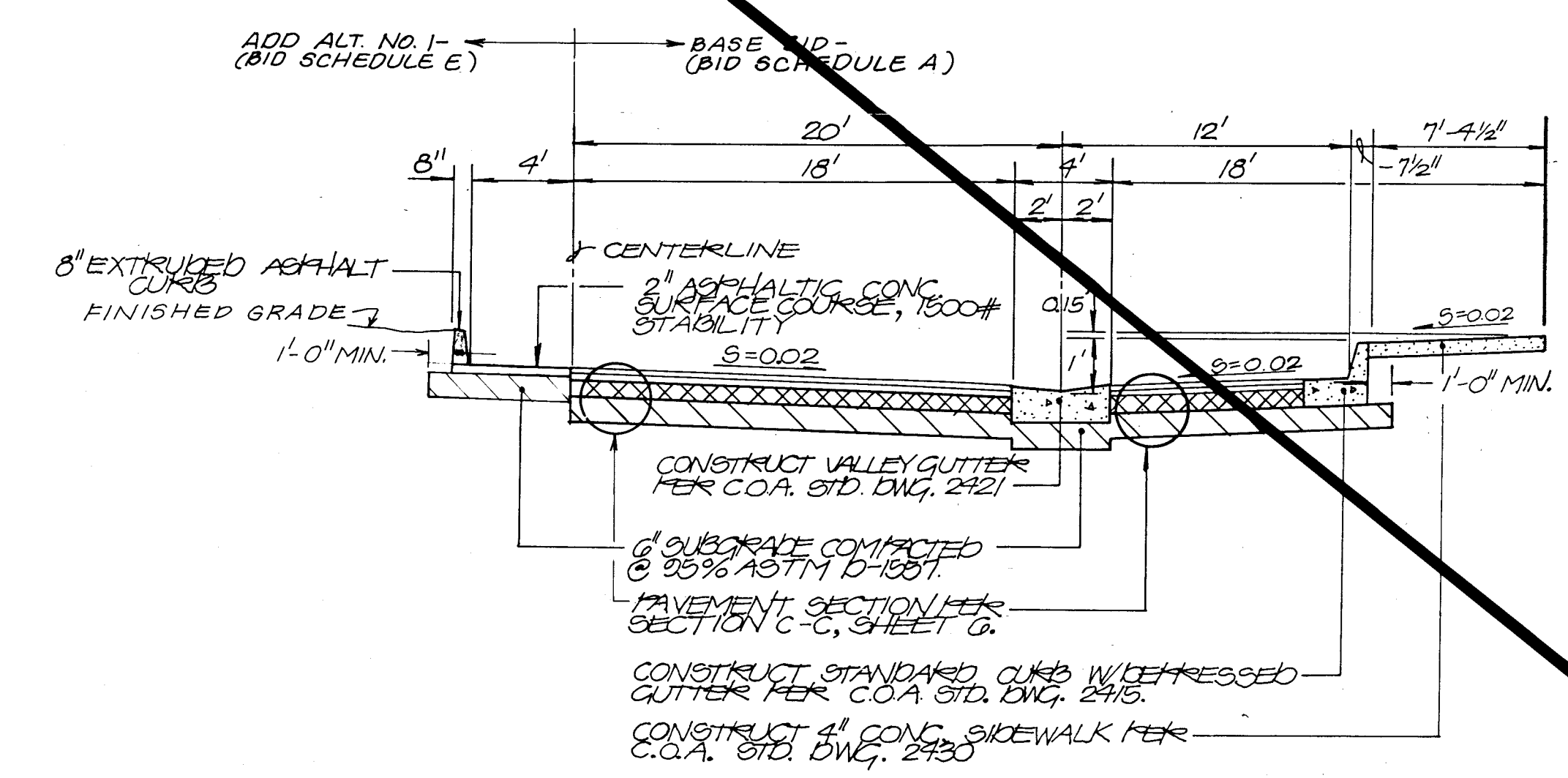
TITLE: EDUCATION PLACE N.W.
SITE PLAN & BID SCHEDULE SUMMARY

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	Rogel Dora	5-31-91	Water	Allen	5-30-91
Trans. Dev.	Blawie	5-30-91	Waste Water	NO	
Hydrology	Allen	5-30-91	N.M.U.I.	Allen	5/14/91
DRAWING NO.	3791.91	MAP NO.	C12	SHEET	4 OF 12



LINE	BEARING	DISTANCE
L1	S 44°05'39" E	78.90
L2	S 25°54'21" W	88.69
L3	N 32°27'40" E	9.66
L4	N 64°05'39" W	20.00

CURVE	ARC	DELTA	RADIUS	CHORD LENGTH	CHORD BEARING	TAN LENGTH
C1	43.02	82°09'45"	30.00	39.43	S 85°10'31" E	26.15
C2	38.84	14°50'06"	150.00	38.73	S 36°40'38" E	19.53
C3	38.84	14°50'06"	150.00	38.73	S 36°40'33" E	19.53
C4	38.84	14°50'06"	150.00	38.73	S 18°29'18" W	19.53
C5	38.84	14°50'06"	150.00	38.73	S 18°29'18" W	19.53
C6	33.31	63°36'44"	30.00	31.62	S 57°42'43" W	18.61



SECTION E-E
H. SCALE: 1" = 3'
V. SCALE: 1" = 3'

- NOTES:
- THIS SHEET PROVIDED FOR INFORMATION AND BIDDING PURPOSES.
 - THE TEMPORARY IMPROVEMENTS SHOWN HEREON ARE ADDITIVE ALTERNATE NO. 2 (BID SCHEDULE E).

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN	
CONTRACTOR	NEW CONCEPTS	AN ACS 1 3/4" ALUMINUM DISK SET	DATE	NO.	BY	U&M	BY	NO.	DATE	DESIGNED BY	CHECKED BY
WORK BY	INSPECTOR'S	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
ACCEPTANCE BY	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
FIELD BY	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
DRAWINGS	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
CONTRACT NO.	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
MICRO-FILM INFORMATION		ELEVATION = 5755.79 M (MGLD)		ELEVATION = 5755.79 M (MGLD)		ELEVATION = 5755.79 M (MGLD)		ELEVATION = 5755.79 M (MGLD)		ELEVATION = 5755.79 M (MGLD)	
RECORDED BY		NO		NO		NO		NO		NO	

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
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
8547

04-25-91

2	3	4	5	6	7	8	9	10	11	12	13	14	15
26	37	91	1	91	05	91							

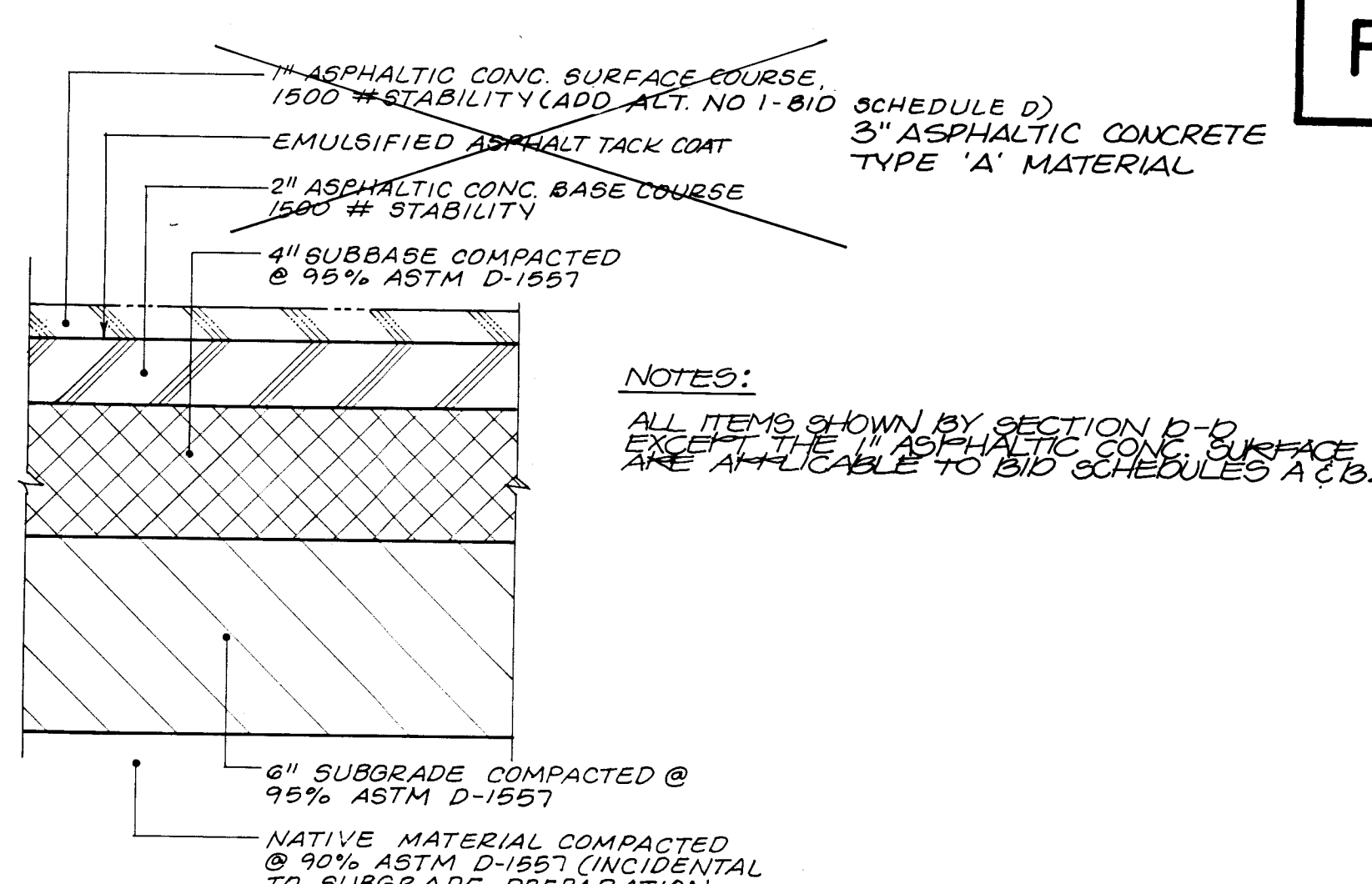
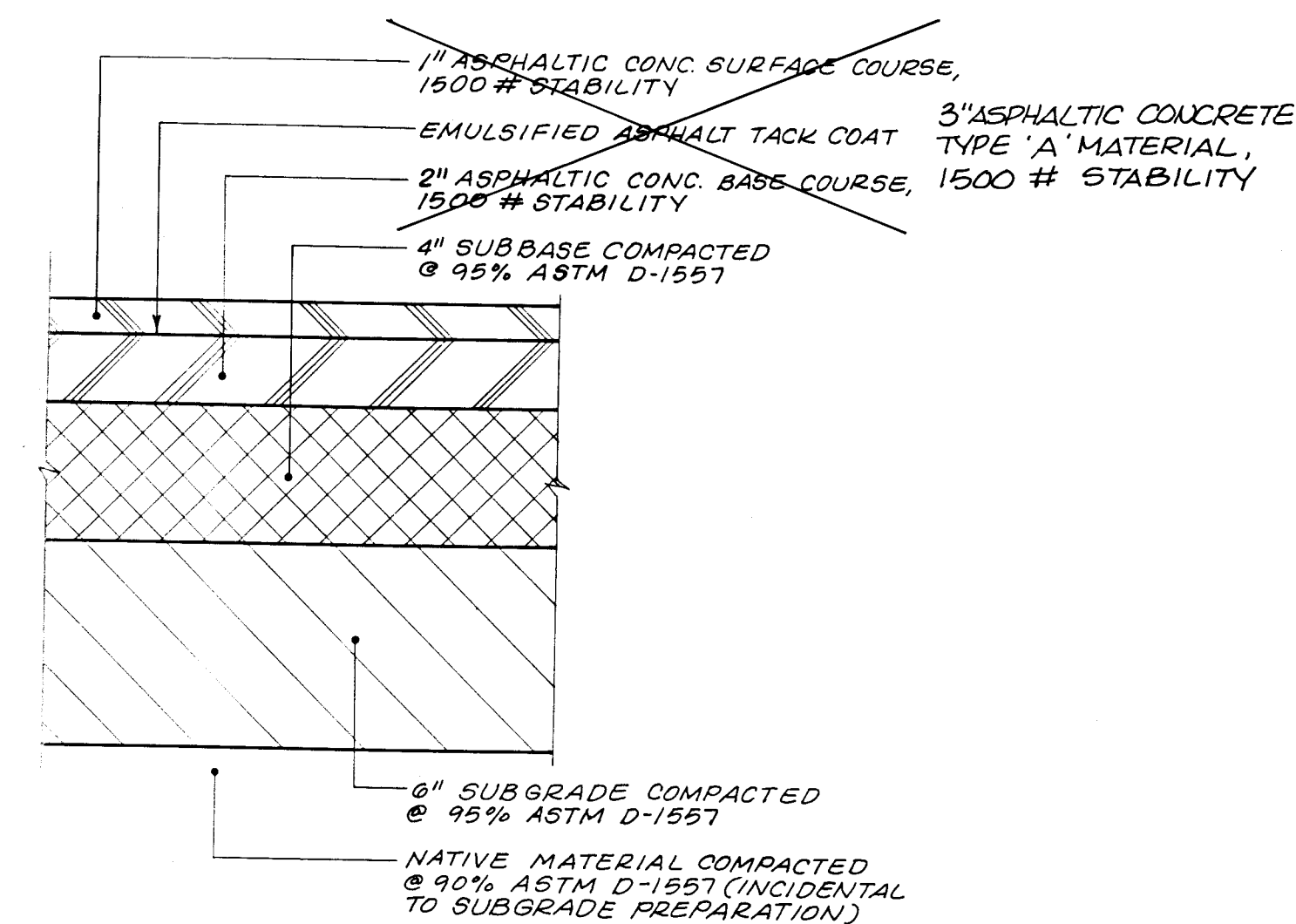
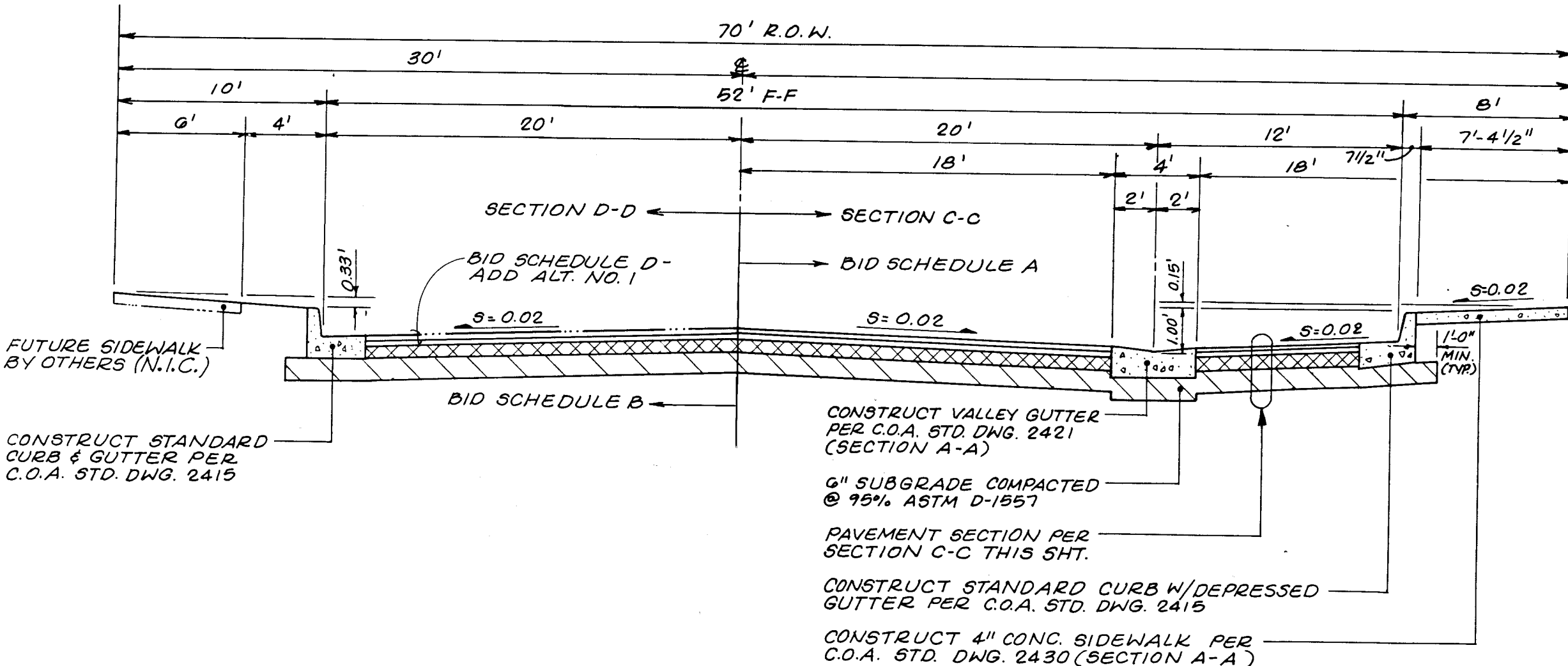
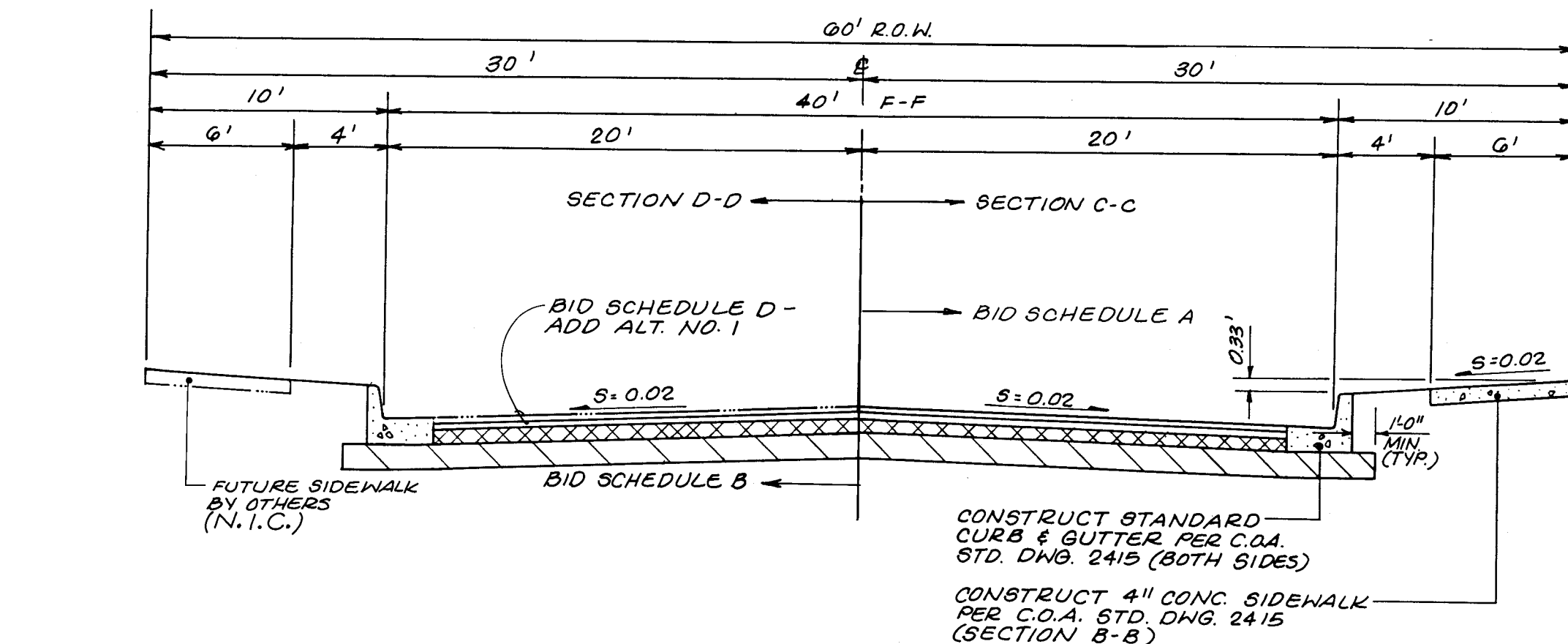
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: ALTERNATE PAVING SITE PLAN
EDUCATION PLACE N.W.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	Roger Allen	5-31-91	Water	Allen	5-30-91
Trans. Dev	Allen	5-30-91	Waste Water	Allen	"
Hydrology	J. Allen	5-30-91	N.M.U.I.	Allen	"

DRAWING NO. 3791.91 MAP NO. C-12 SHEET 5 OF 12

RECORD DRAWING



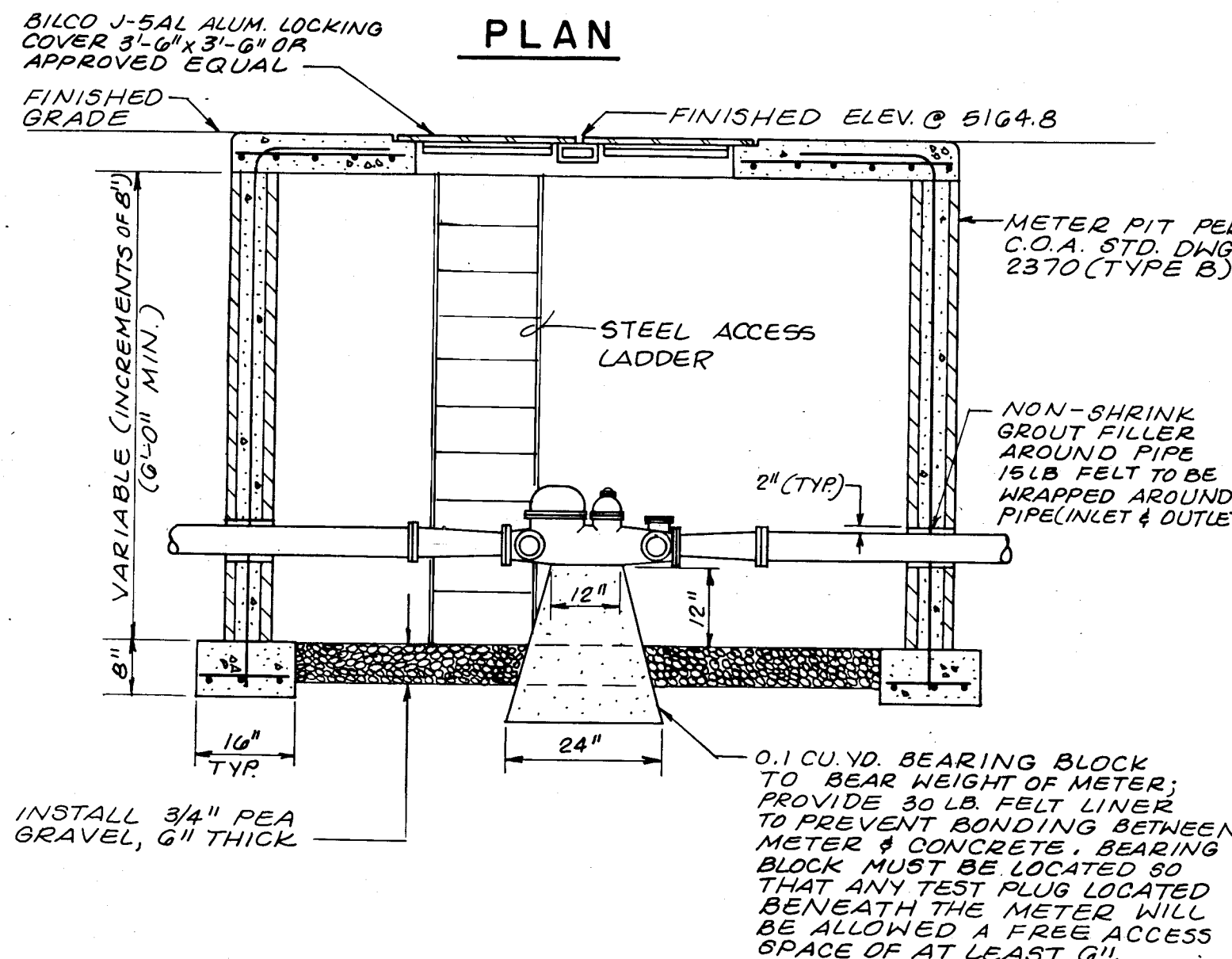
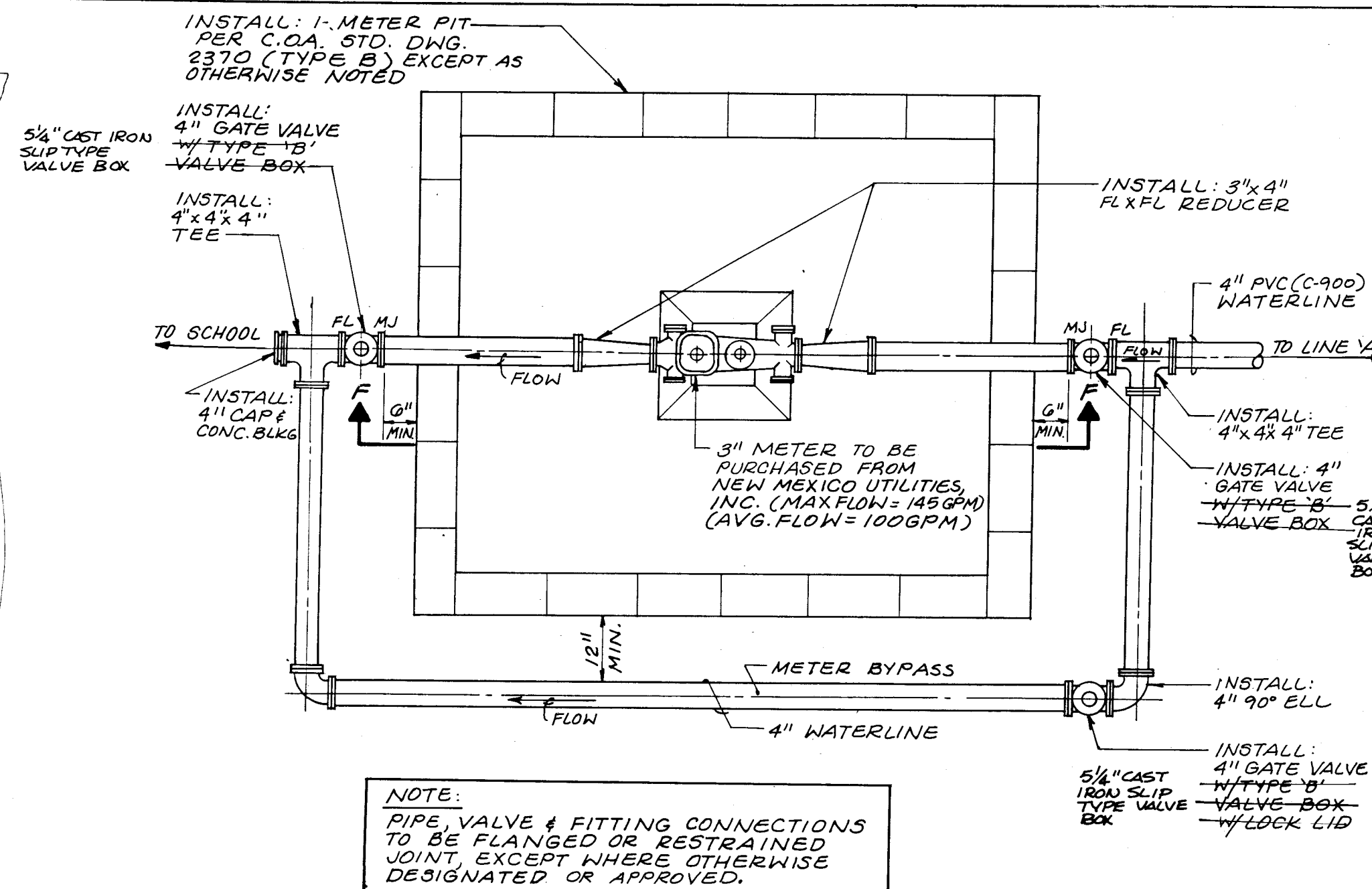
CONSTRUCT STANDARD CURB & GUTTER PER C.O.A. STD. DNG. 2415

TRANSITION FROM STANDARD CURB & GUTTER TO VALLEY GUTTER PER C.O.A. STD. DNG. 2421 (SECTION B-B)

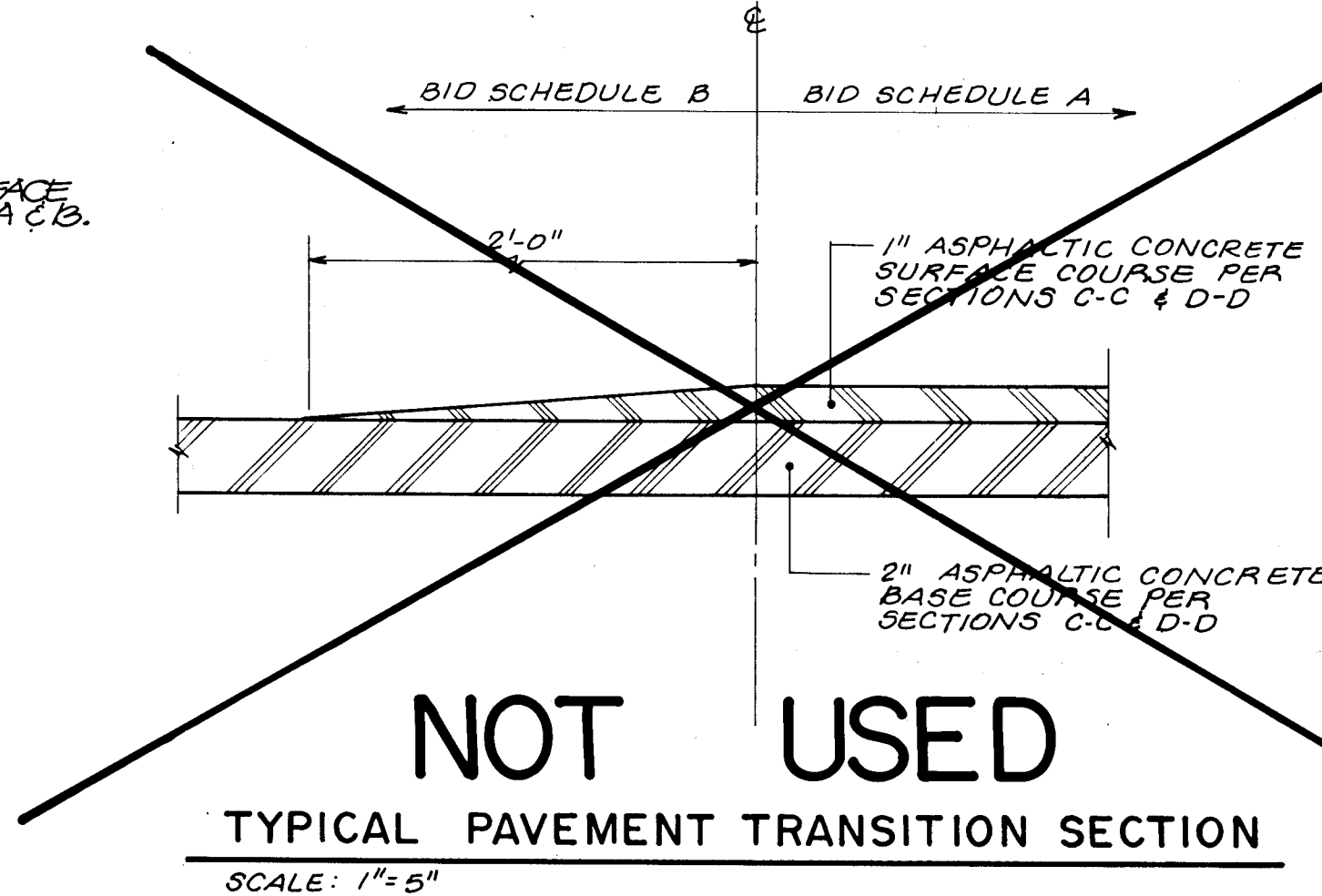
CONSTRUCT 4" CONC. VALLEY GUTTER PER C.O.A. STD. DNG. 2421 (SECTION A-A)
CONSTRUCT STANDARD CURB W/DEPRESSED GUTTER PER C.O.A. STD. DNG. 2415

NEW PAVING PER SECTION C-C, THIS SHEET
NOTE: REVERSE DETAIL @ SOUTH END OF BUSWAY

DETAIL
SCALE: 1"=6'



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.
Date: 5-23-91
JEFFREY G. MORTENSEN
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
No. 8547

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: EDUCATION PLACE NW SECTIONS & DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	Roger Wilson	5-21-91	Water	ALD	5-20-91
Trans. Dev	5-20-91		Waste Water	120	
Hydrology	5-30-91		N.M.U.I.	11/11	5/4/91
DRAWING NO.	3791.91	MAP NO.	C-12	SHEET	6 OF 12

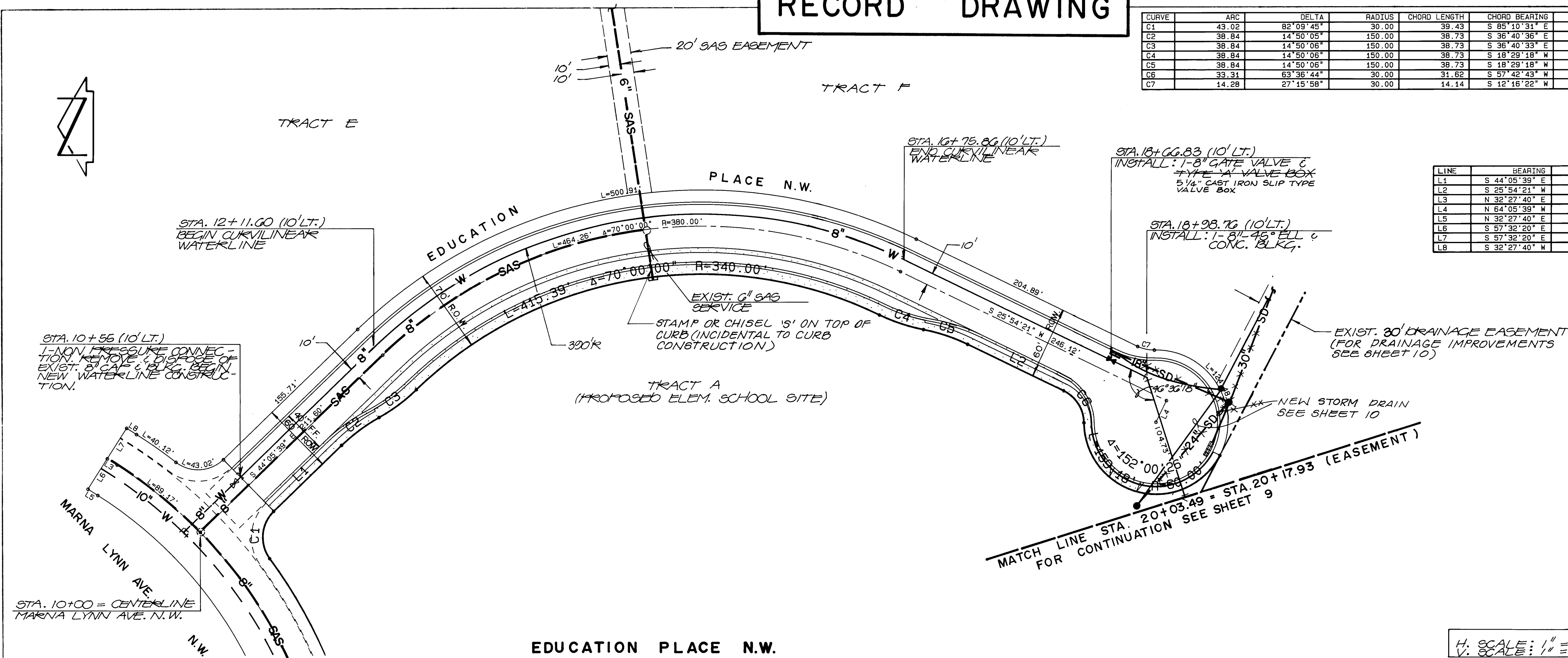
AS BUILT INFORMATION					
CONTRACTOR	NEW CONCEPTS	STARTED BY	J.M.A.	DATE	6-91
INSPECTOR'S	DATE	FILED BY	M.A.S.	DATE	8-22-91
VERIFICATION BY	M.A.S.	DATE	8-22-91	CORRECTED BY	J.M.A.
MICRO-FILM INFORMATION					
RECORDED BY	DATE	NO.			
BENCH MARKS					
BENCHMARK	ACS BM NO. 2-C12	DATE			
SURVEY INFORMATION					
FIELD NOTES	DATE	BY			
NO.					
ENGINEER'S SEAL					
JGM	BY	DATE			
REVISIONS					
NO.	DATE	REVISIONS			
DESIGNED BY	JGM	DATE	01-91		
DRAWN BY	MJT	DATE	01-91		
CHECKED BY	JGM	DATE	01-91		

RECORD DRAWING

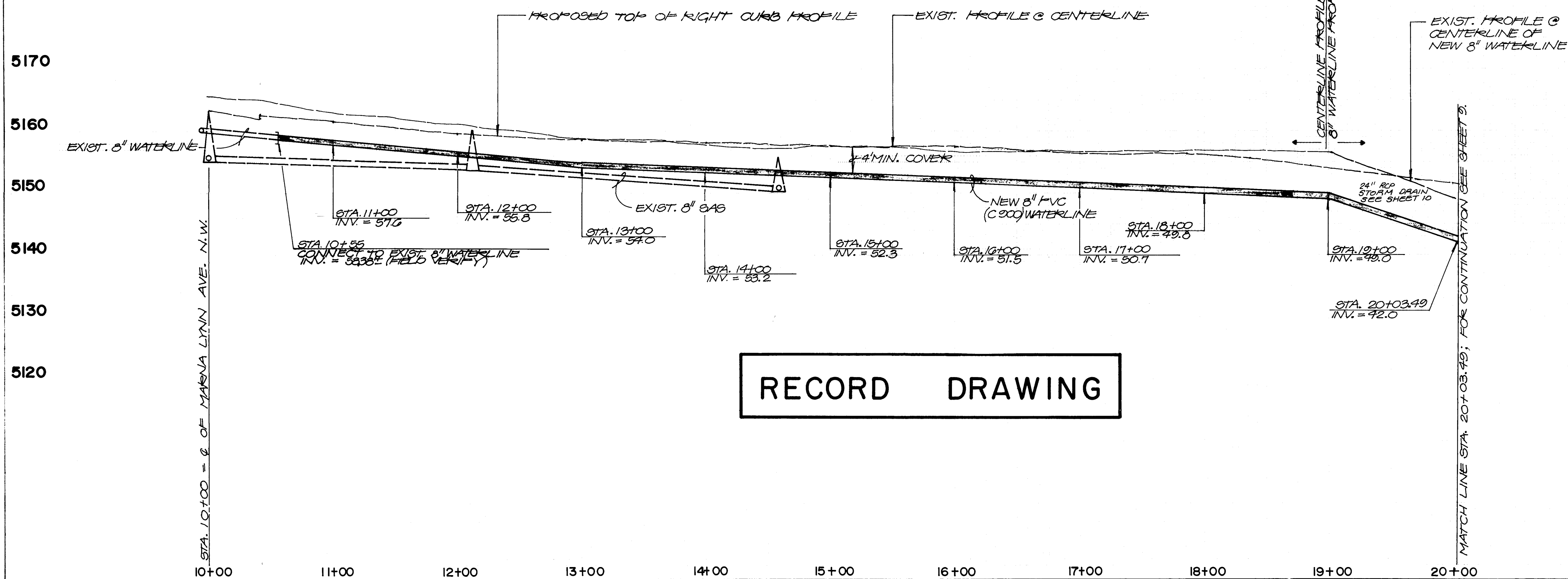
CURVE	ARC	DELTA	RADIUS	CHORD LENGTH	CHORD BEARING	TAN LENGTH
C1	43.02	82°09'45"	30.00	39.43	S 85°10'31" E	26.15
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LINE	BEARING	DISTANCE
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L3	N 32°27'40" E	9.66
L4	N 64°05'39" W	20.00
L5	N 32°27'40" E	9.66
L6	S 57°32'20" E	30.00
L7	S 57°32'20" E	30.00
L8	S 32°27'40" W	9.66

- | <u>WATERLINE EXTENSION NOTES:</u> | | <u>AS BUILT INFORMATION</u> | <u>CONTRACT NO.</u> | <u>NEW CONCEPTS</u> | <u>DRAWN BY</u> | <u>CHECKED BY</u> | <u>DATE</u> | <u>DATE</u> | <u>DATE</u> |
|-----------------------------------|---|-----------------------------|---------------------|---------------------|------------------------|----------------------------|-------------|--------------|--------------|
| 1. | WATERLINE STATIONING IS BASED UPON STREET CENTERLINE WHERE THE WATERLINE PARALLELS SAID CENTERLINE. | | J.M.A. | J.M.A. | M.A.S. | M.A.S. | DATE 6-91 | DATE 8-25-90 | DATE 8-25-90 |
| 2. | WATERLINE STATIONING IS BASED UPON WATERLINE AND/OR EASEMENT CENTERLINE WHERE THE WATERLINE DEVIATES FROM STREET CENTERLINE STATIONS. | | | | VERIFICATION BY M.A.S. | DRAWINGS CHECKED BY J.M.A. | | | |
| 3. | ALL WATERLINE SHALL BE PVC (C-900) UNLESS OTHERWISE APPROVED BY NEW MEXICO UTILITIES, INC. | | | | | | | | |
| 4. | 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. | | | | | | | | |
| 5. | ELECTRONIC MARKER DISKS (EMD'S) SHALL BE PLACED ABOVE ALL FITTINGS IN ACCORDANCE WITH SECTION 170 OF THE "STANDARD SPECIFICATIONS". | | | | | | | | |
| 6. | IN ACCORDANCE WITH SECTION 801 OF THE "STANDARD SPECIFICATIONS", METALIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18 INCHES ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT. | | | | | | | | |
| 7. | REFER TO NEW MEXICO UTILITIES, INC. STANDARD DRAWINGS AS REPRODUCED AND APPEAR IN THE BID DOCUMENTS. | | | | | | | | |
- NO
RECORDED BY
MICRO-FILM INFORMATION
DRAWINGS
VERIFICATION BY M.A.S.
CHECKED BY J.M.A.
J.M.A.
INSPECTOR
ACCEPTANCE BY M.A.S.
DATE 6-91
- BENCH MARKS
3/4" ALUMINUM DISK STAMPED
2" DIA., SET ON TOP OF THE
THE WWW RETURN @ THE
CTION OF PARKSIDE HILLS
DAVENPORT ST., N.W. IN THE
DRAWING OF THE INTERSECTION,
DN - SITS 79 FT. (19.9Lb)



H. SCALE: $1'' = 50'$
V. SCALE: $1'' = 10'$



RECORD DRAWING

5170


5160

5150

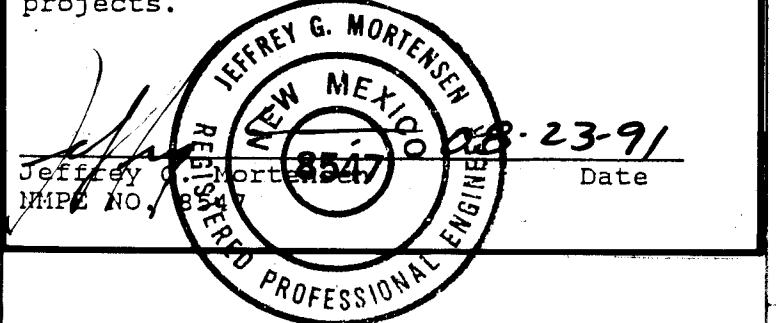
5140

5130

5120

RECORD DRAWING 

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		3	4		6	7	8	9	10	11	12	13	14	15
2	6		3	7	9	1	.	9	1	0	8	9	1	

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP



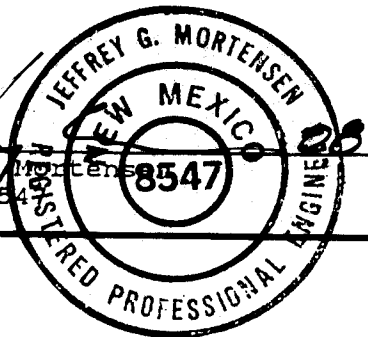
TITLE: EDUCATION PLACE N.W.
WATERLINE EXTENSION PLAN & PROFILE
EDUCATION PLACE N.W. STA.10+55 TO STA.20+03.49

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>Rog. Khan</i>	5-31-91	WATER	<i>ALCO</i>	5-30-91
TRANSPORTATION	<i>Al Bazzaz</i>	5-30-91	WASTE WATER	<i>ALCO</i>	"
HYDROLOGY	<i>S. Alkady</i>	5-30-91	N.M.U.I.	<i>ALCO</i>	5/6/91

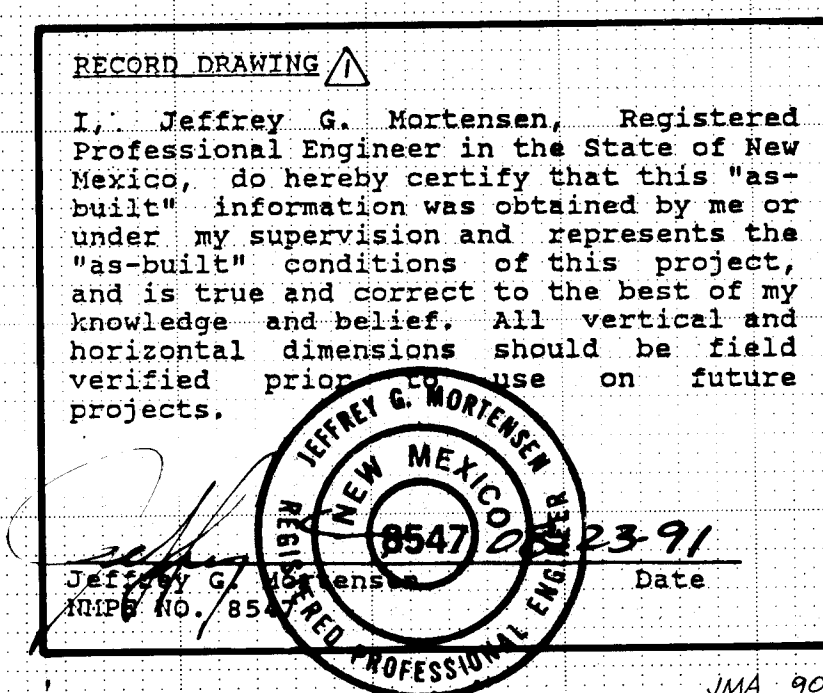
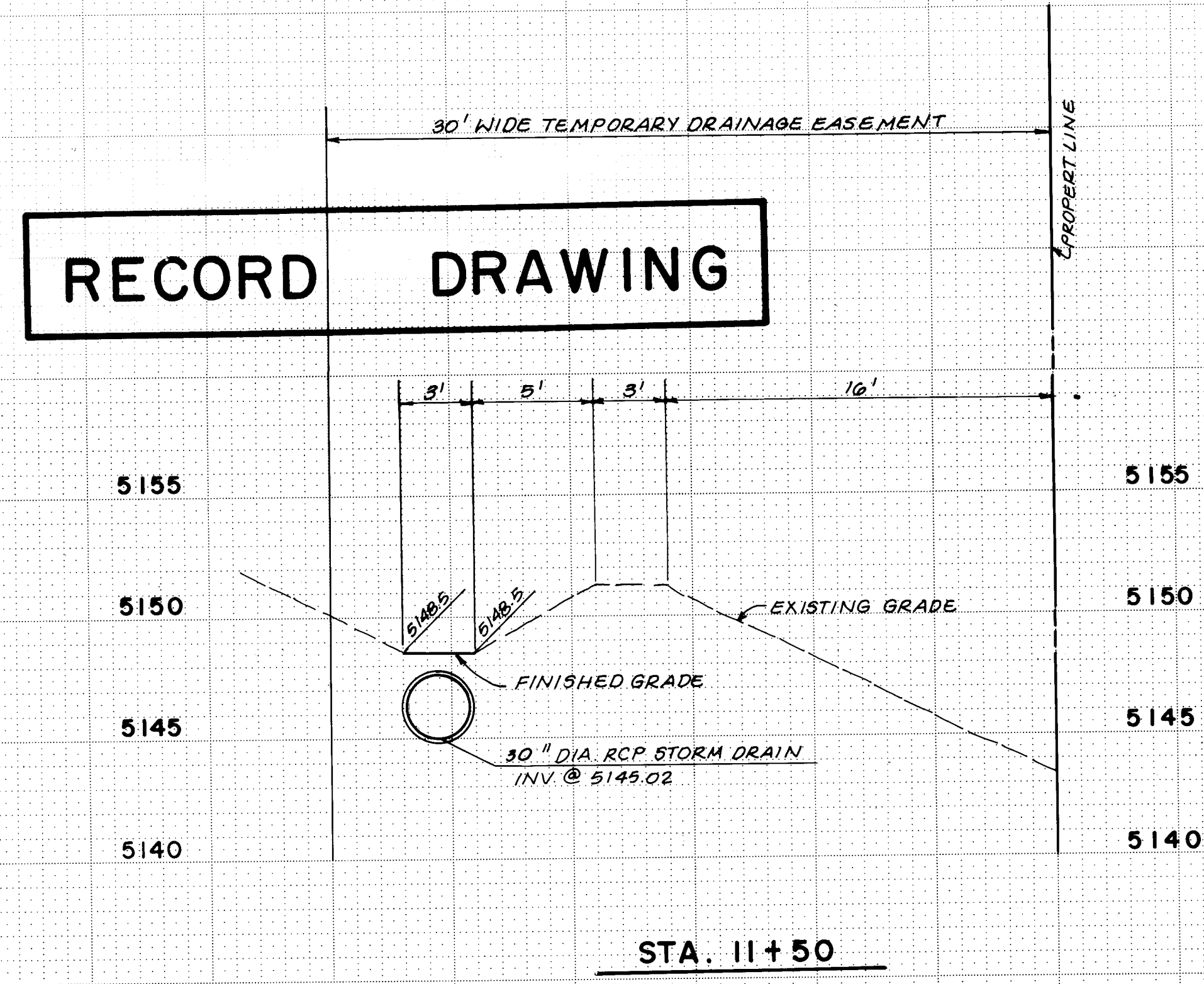
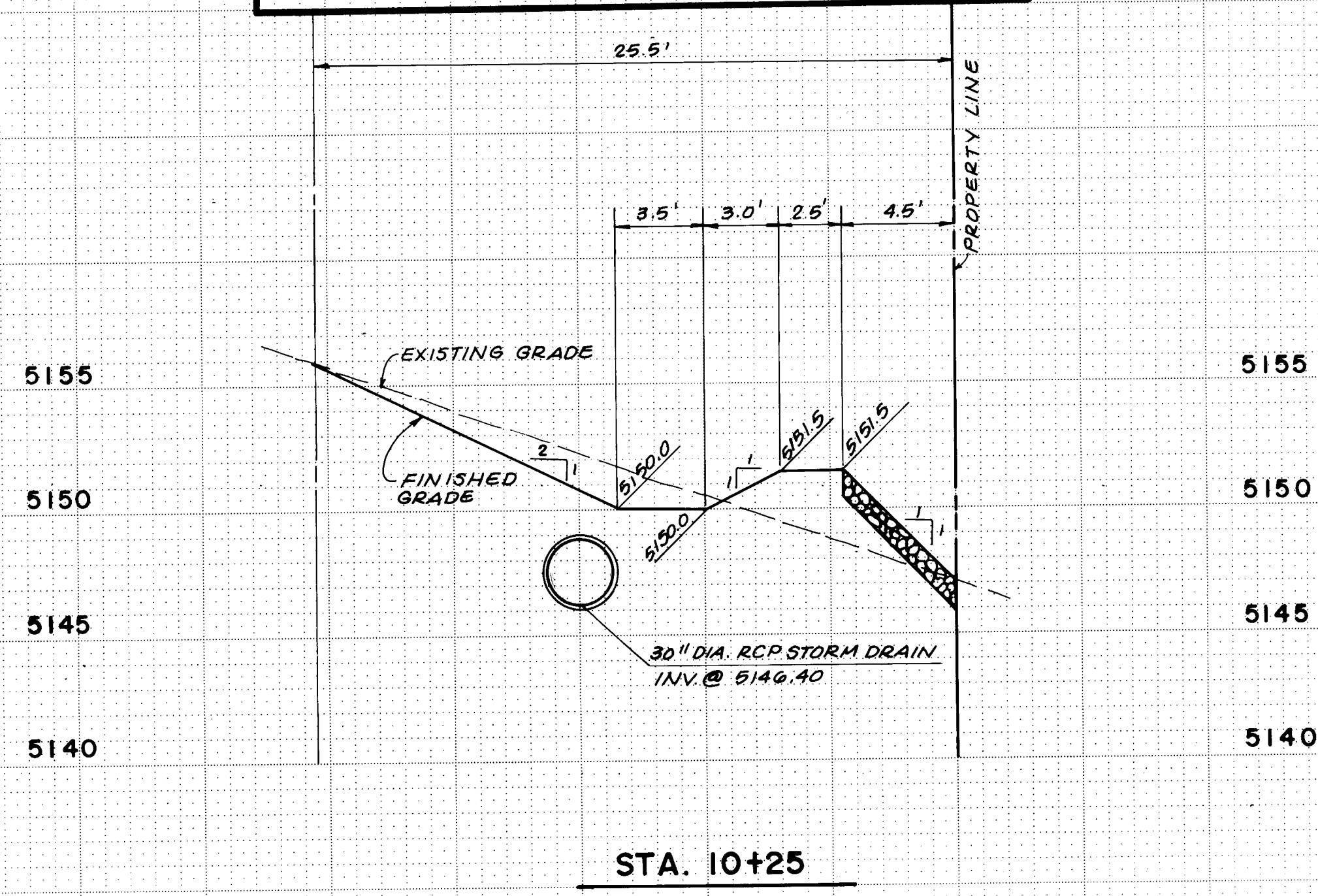
PROJECT NO.	3791.91	MAP NO.	C-12	SHEET	OF	8	12
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H. SCALE: 1" = 50'
 V. SCALE: 1" = 10'

EXIST. PROFILE @ EASEMENT
 LINE 'A'
 PROPOSED GRADE ABOVE WATERLINE
 4' MIN. COVER
 STA. 10+00 (LINE 'A')
 STA. 10+00 INV. = 45.5
 STA. 10+00 INV. = 50.0
 STA. 11+00 INV. = 50.0
 STA. 12+74 4 1/2" BURY FIRE HYDRANT
 NEW 6" PVC - C900 WATERLINE
 10+00 11+00 12+00

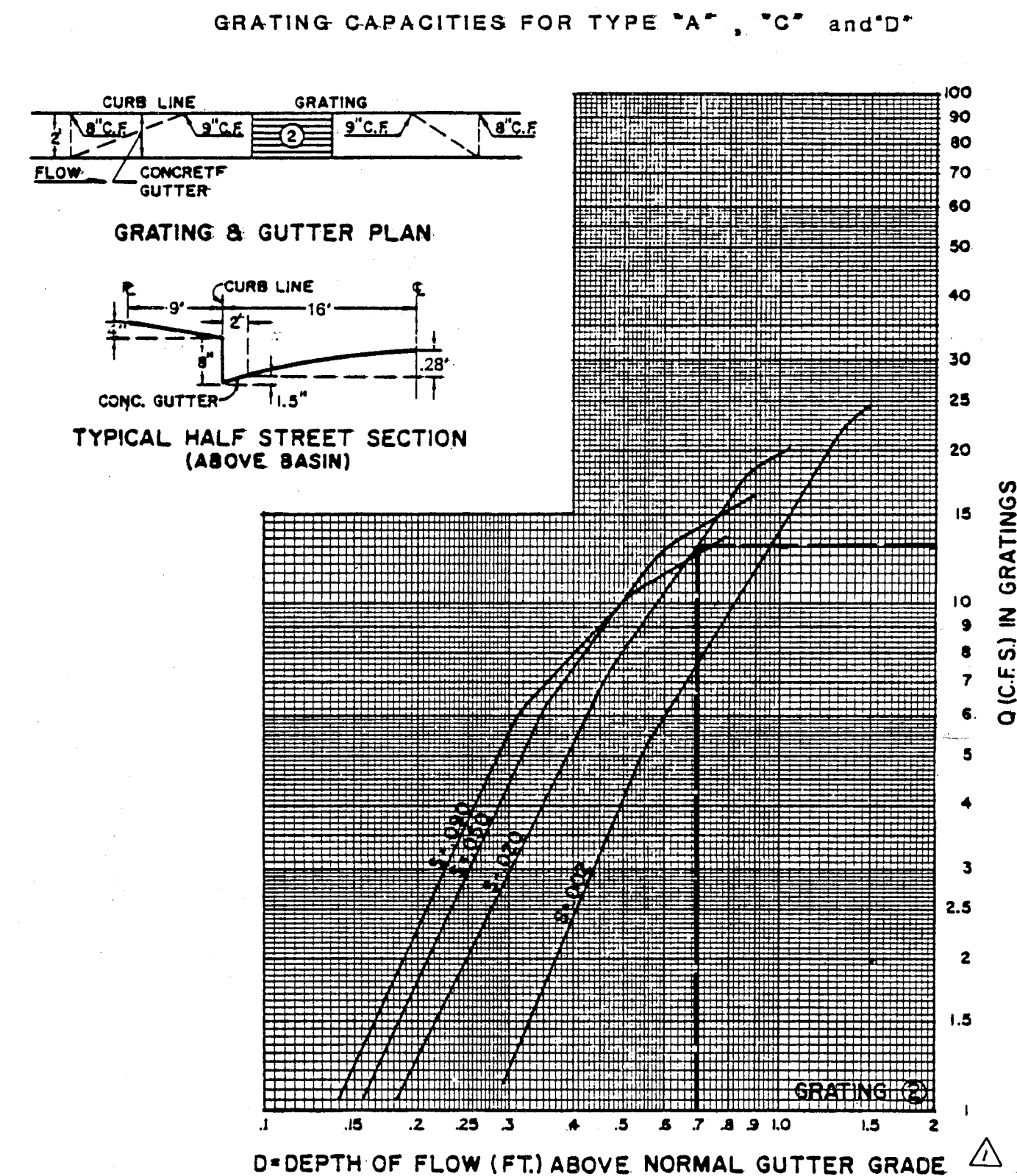
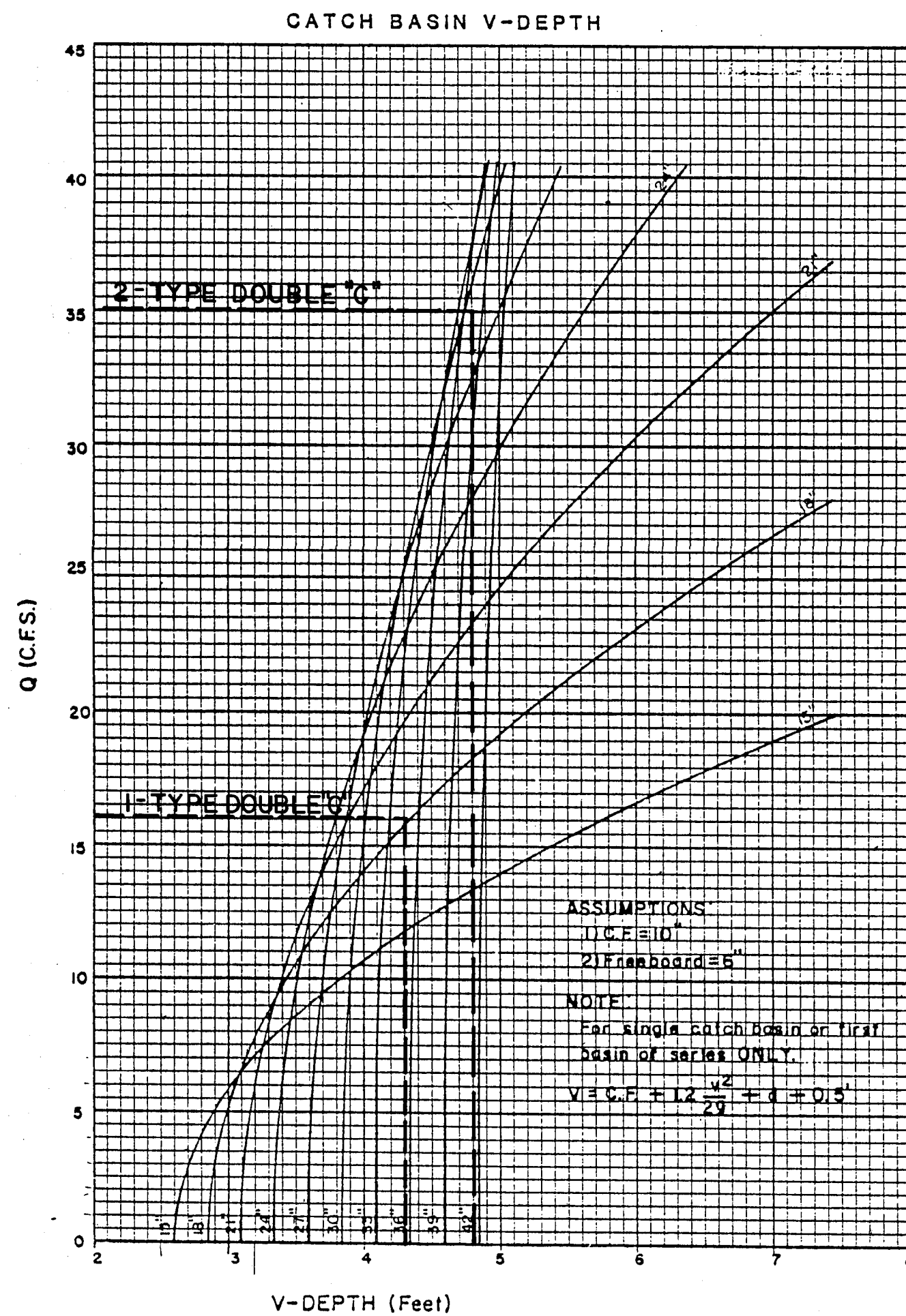
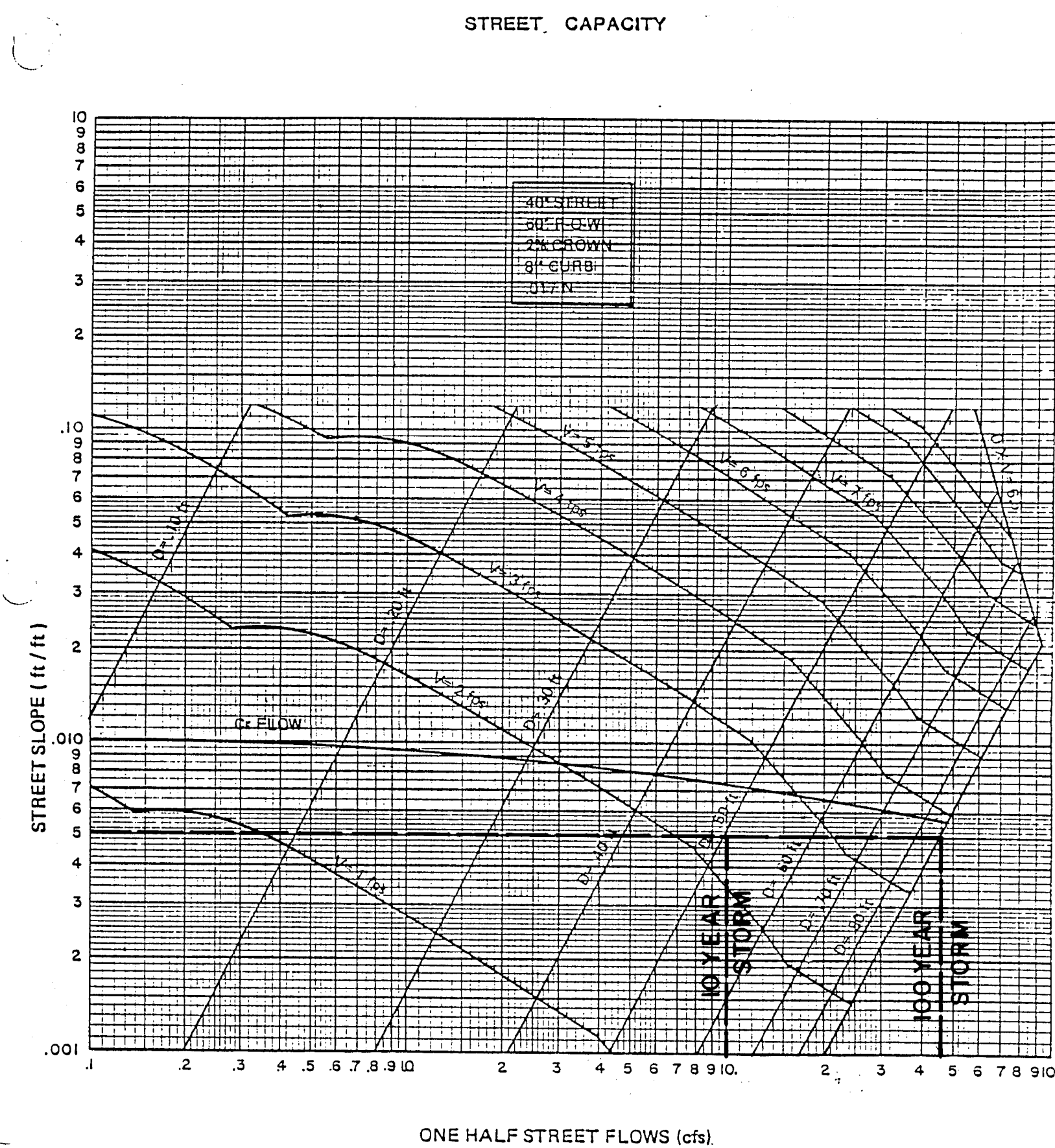
<p>WATERLINE EXTENSION NOTES:</p> <ol style="list-style-type: none"> 1. WATERLINE STATIONING IS BASED UPON STREET CENTERLINE WHERE THE WATERLINE PARALLELS SAID CENTERLINE. 2. WATERLINE STATIONING IS BASED UPON WATERLINE AND/OR EASEMENT CENTERLINE WHERE THE WATERLINE DEVIATES FROM STREET CENTERLINE STATIONS. 3. ALL WATERLINE SHALL BE PVC (C-900) UNLESS OTHERWISE APPROVED BY NEW MEXICO UTILITIES, INC. 4. 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. 5. ELECTRONIC MARKER DISKS (EMD'S) SHALL BE PLACED ABOVE ALL FITTINGS IN ACCORDANCE WITH SECTION 170 OF THE "STANDARD SPECIFICATIONS". 6. IN ACCORDANCE WITH SECTION 801 OF THE "STANDARD SPECIFICATIONS", METALIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18 INCHES ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT. 7. REFER TO NEW MEXICO UTILITIES, INC. STANDARD DRAWINGS AS REPRODUCED AND APPEAR IN THE BID DOCUMENTS. 		<p>AS BUILT INFORMATION</p> <p>CONTRACT NO. NEW CONCEPTS WORK ORDER NO. J.M.A. DATE 6-9-91 CHECKED BY J.M.A. DATE 8-22-91 FIELD NO. J.M.A. DATE 8-22-91 DRAWN BY J.M.A. DATE 8-22-91 CORRECTED BY J.M.A. DATE 8-22-91 MICRO-FILM INFORMATION RECORDED BY DATE NO</p>	
<p>BENCH MARKS</p> <p>AN ACS 1 1/2" ALUMINUM DISK STAFFED 100S BY 2" CIP, SET ON TOP OF THE CURB & THE WWW RETURN @ THE INTERSECTION OF PARADISE HILLS BLVD. & DAVENPORT ST., N.W. IN THE NW QUADRANT OF THE INTERSECTION. ELEVATION - 5175 TO FT. (M.S.L.D.)</p>		<p>SURVEY INFORMATION</p> <p>FIELD NOTES BY DATE NO</p>	
<p>ENGINEER'S SEAL</p> <div style="text-align: center;">  <p>0425-91</p> </div>		<p>RECORD DRAWING </p> <p>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.</p> <div style="text-align: center;">  <p>08-23-91 Date</p> </div>	
<p>AS-BUILT</p> <p>8-22-91</p>		<p>REVISIONS</p> <p>DESIGN</p> <p>DESIGNED BY J.G.M. DRAWN BY J.M.A. CHECKED BY J.G.M.</p> <p>DATE 1/91 DATE 1/91 DATE 1/91</p>	
<p style="text-align: center;">CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP</p>			
<p>TITLE: EDUCATION PLACE N.W. WATERLINE EXTENSION PLAN & PROFILE ONSITE EASEMENT STA. 10+30 TO STA. 20+17.93</p>			
<p>APPROVALS</p> <p>DRC CHAIRMAN <i>Roger Wilson</i> 5-31-91 TRANSPORTATION <i>John Smith</i> 5-30-91 HYDROLOGY <i>J. Kelly</i> 5-30-91</p>		<p>APPROVALS</p> <p>ENGINEER <i>ALD</i> 5-30-91 WASTE WATER <i>ALD</i> N.M.U.I. <i>J. Kelly</i> 5-30-91</p>	
<p>PROJECT NO. 3791.91</p>		<p>MAP NO. C-12</p>	
<p>SHEET 9</p>		<p>OF 12</p>	

ORIGINAL			
SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	REMARKS		



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: EDUCATION PLACE NW DRAINAGE EASEMENT CROSS-SECTIONS STA. 10+00 TO STA. 12+00					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>Reggie [Signature]</i>	6-30-91	WATER	<i>Nelson [Signature]</i>	5-30-91
TRANSPORTATION	<i>[Signature]</i>	6-30-91	WASTE WATER	<i>ADD</i>	"
HYDROLOGY	<i>[Signature]</i>	6-30-91	N.M.U.I.	<i>N/A files.</i>	
PROJECT NO. 3791.91		MAP NO. C-12		SHEET 11 OF 12	

RECORD DRAWING

DRAINAGE PLAN

The following items concerning the Education Place Storm Drain Drainage Plan are contained on the following index of drawings:

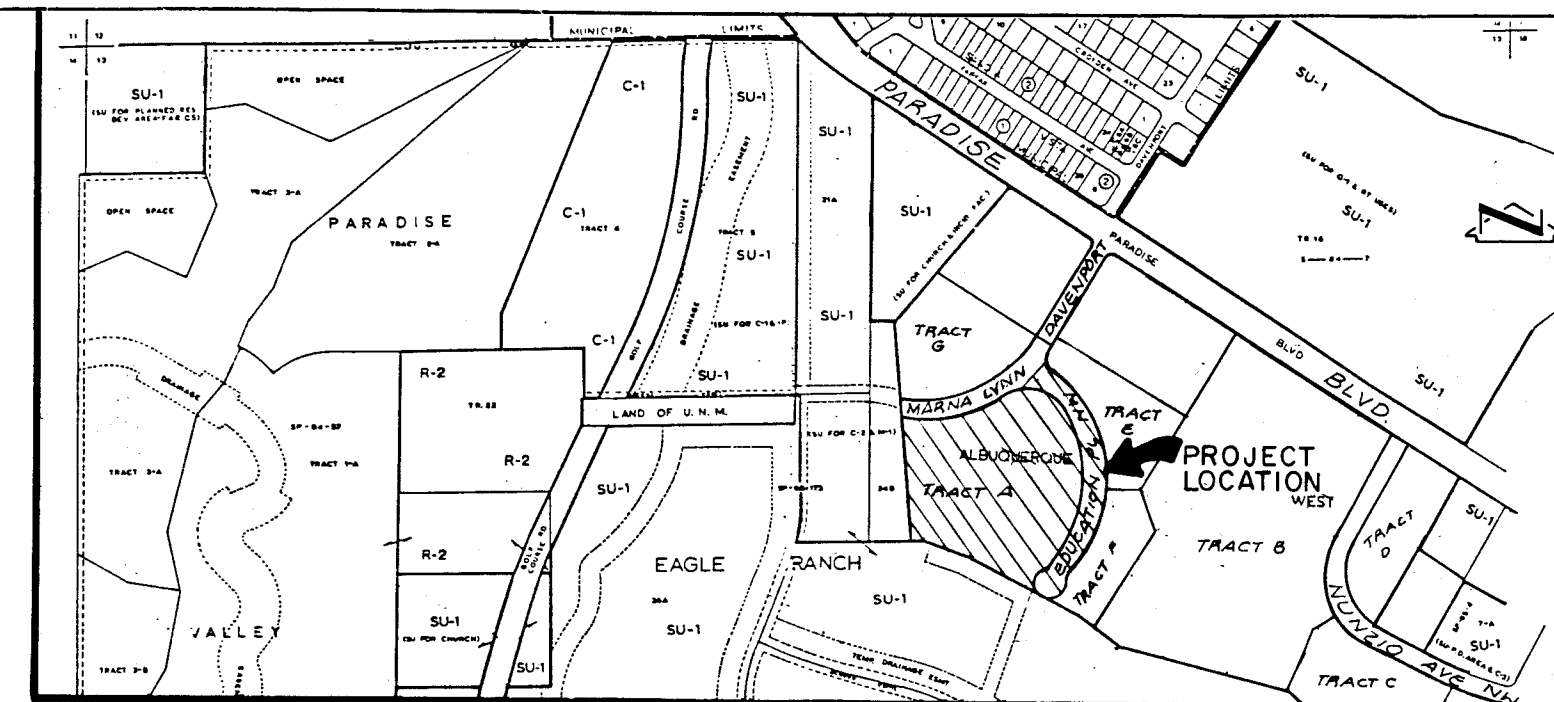
<u>Description</u>	<u>Sheet No.</u>
Vicinity Map	12
Storm Drain Plan and Profile	10
Easement Cross Sections	11
Nomographs and Calculations	12

As shown by the Vicinity Map, the site is located in the Albuquerque West Unit One Subdivision. The criteria and concepts for the treatment of stormwater within the subdivision have been established by the "Drainage Report for the Albuquerque West Unit 1, Phase One Improvements" dated October, 1990, prepared by Isaacson and Arfman, P.A. The purpose of this plan is to demonstrate the capacity of the infrastructure proposed for the completion of Education Place N.W. cul-de-sac to accept and convey the stormwater defined in the previously mentioned Isaacson and Arfman Report.

The Isaacson and Arman Report defines the maximum allowable flow rate at two points which are pertinent to this plan. As development occurs upstream of these points, onsite detention is to be used to achieve these maximum flows. Analysis Point (AP) #2 of the report is located at the low point of the three way intersection of the Lynden and Education Place. The maximum allowed flow rate at AP #2 per the report is 8.8 cfs. Analysis Point #3 of the report is located at the south end of Education Place and includes the runoff from AP #2, the Education Place right-of-way, and the Albuquerque Public Schools (APS) site, Tract "A". The maximum allowed discharge at AP #4, per the Report, is 38.4 cfs. The maximum allowed flows from the Education Place right-of-way and the APS site will not exceed 8.8 cfs, which is the difference of the allowed flows at the above mentioned points.

The infrastructure improvements included in this project consist of curb and gutter and paving in Education Place N.W. and storm drain and storm inlets to intercept and convey runoff from the south end of Education Place N.W. to the temporary drainage channel (Project No. 3791.90). The storm drain includes an extension onto the APS site to accommodate the eventual developed runoff. Regrading in the 30' wide temporary drainage easement located east of Education Place N.W., to form a minor channel as shown on Sheet 11 is intended to intercept nuisance runoff prior to flowing onto the adjacent downhill properties. This channel is not intended to carry major flows. The design flow for the storm drain is based on the allowable discharge of 38.4 cfs per the Isaacson and Arfman Report. Included herein are calculations and copies of plates from the Albuquerque Development Process Manual to demonstrate the capacity of the proposed improvements.

To ensure that the design flow will be taken into the storm drain, excess inlet capacity has been provided. The calculations hereon show that the inlet to be constructed at the south end of Education Place N.W., the low portion of the collection system, has the capacity to handle the entire design flow of the storm drain (38.4 cfs). A type "A" inlet will be constructed upstream of this inlet along the east curb line of Education Place N.W. to intercept a portion of the flow. Additional inlet capacity will be provided upstream when the APS site is developed. The 24" diameter storm drain extension to be constructed into the APS site is designed to convey 21.2 cfs, as shown by the calculations hereon. As the plans for development are not complete for the APS site, the design flow for the extension is based on an estimate of the runoff which will be developed and intercepted in future improvements. The design of the rip-rap channel protection at the inlet of the 30" diameter storm drain into the earthen channel is per the guidelines set forth in the A.M.A.F.C.A. "Preliminary Drainage Criteria Manual", June 1981.



VICINITY MAP

NO SCALE

2-TYPE DOUBLE 'C' INLETS CAPACITY
(SUMP CONDITION)

Assume Effective Grate Area = 0.50 Total Grate Area
Total Grate Area = 2' x 3' x 4 = 24 sf
Effective Area = 24 x 0.50 = 12 sf
Orifice Equation = $Q = CA(2gh)^{1/2}$
h = 0.6'
C = 0.60
A = 12 sf

$$Q = 0.60(12) [(2)(32.2)(0.6)]^{1/2} = 44.76 \text{ cfs}$$

RCP PIPE CAPACITY
(FLOWING FULL)

Use Mannings equation $n = 0.012$
 $Q = (1.486/n)AR^{2/3}S^{1/2}$

30" STORM DRAIN

$$Q = 1.486 / 0.012 (4.909) (0.625^{2/3}) (0.0096^{1/2}) = 43.5 \text{ cfs}$$

24" CONNECTOR PIPE

$$Q = 1.486 / 0.012 (3.142) (0.500^{2/3}) (0.0075^{1/2}) = 21.2 \text{ cfs}$$

18" CONNECTOR PIPE

$$Q = 1.486 / 0.012 (1.767) (0.375^{2/3}) (0.0230^{1/2}) = 17.3 \text{ cfs}$$

30" STORM DRAIN OUTLET VELOCITY

In plotting the HGL the pipe was assumed to be flowing full thus
 $V = Q/A = 38.4/4.909 = 7.82 \text{ fps}$

Under ideal conditions the pipe will flow partially full as demonstrated by the Mannings Equation

$$Q = 1.486 / 0.12(3.84) (0.749^{2/3}) (0.0096^{1/2}) = 38.4 \text{ cfs}$$

Under the partially filled condition $V = Q/A = 38.4/3.84 = 10 \text{ fps}$

$$V_{\max} @ 30" \text{ outlet} = 10 \text{ fps}$$

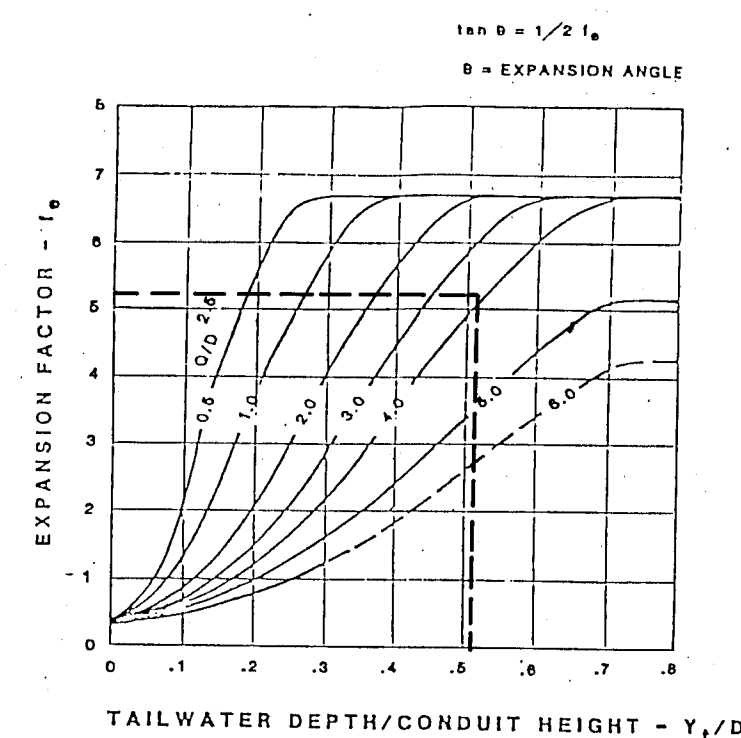
LENGTH OF OUTLET PROTECTION REQUIRED

The normal depth of the existing 3' bottom width trapezoidal channel at the design Q_{100} (38.4 cfs) is approximately 1.3' as demonstrated by the Manning's Equation.

$$\begin{aligned} A &= 1.30(3) + 1.30(1.30 \times 2) = 7.28 \text{ cf} \\ S &= 0.015 \text{ ft/ft} \\ n &= 0.03 \\ W_p &= 3 + 2[(1.30 \times 2)^2 + 1.30^2]^{1/2} = 8.81 \text{ ft} \\ R &= 7.28/8.81 = 0.82 \\ Q &= 1.486/(0.03(7.28)(0.82^{2/3})(0.015^{1/2}) = 38.7 \text{ cfs} \\ V &= 38.7/7.28 = 5.3 \text{ fps} \end{aligned}$$

Per A.M.A.F.C.A. Drainage Criteria Manual $L = f_e [A_t/Y_t - W]$
 Where L = length of protection, W = width or diameter of conduit,
 Y_t = tail water depth, and f_e = the expansion factor. $A_t = Q/v$
 where Q = design discharge and v = the non-eroding velocity for
 the channel

$A_t = 38.4/5.5 = 6.98$ $Y_t = \text{existing normal depth} = 1.3'$
 $w = 2.5'$ $Q/D^{2.5} = 38.4/2.5^{2.5} = 3.89$
 $Y_t/D = 1.3/2.5 = 0.52$
 f_e from chart below = 5.3
 $L = 5.3[6.98/1.3 - 2.6] = 14.7 \text{ ft}$
Design $L = 20 \text{ ft} > 14.7 \text{ ft}$
 $V_{\text{developed}} \approx V_{\text{existing}}$ at end of outlet protection



EXPANSION FACTOR FOR CIRCULAR CONDUITS

RECORD DRAWING

<div>RECORD DRAWING </div> <div>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.</div> <div><div> Jeffrey G. Mortensen REGISTERED PROFESSIONAL ENGINEER</div><div>08-23-91 Date</div></div>												<div>JG/M</div> <div>AS-BUILT</div> <div>BY</div> <div>REMARKS</div> <div>DESIGN</div> <div>DATE 03/91</div> <div>DRAWN BY MJT</div> <div>CHECKED BY JGM</div> <div>DATE 03/91</div> <div>NO. DATE</div> <div>REVISED</div> <div>ENGINEER'S SEAL</div> <div> Jeffrey G. Mortensen REGISTERED PROFESSIONAL ENGINEER</div> <div>04-25-91</div>												<div>SURVEY INFORMATION</div> <div>FIELD NOTES</div> <div>NO.</div> <div>BY</div> <div>DATE</div> <div>BENCH MARKS</div> <div>BENCHMARK: ACS B.M. NO. "2-C12".</div> <div>1 3/4" ALUM. DISK SET ON TOP OF THE CURB AT W/W RETURN OF PARADISE HILLS BLVD. AND DAVENPORT ST. NW.</div> <div>ELEVATION: 5175.79 FEET (MSLD)</div> <div>AS BUILT INFORMATION</div> <div>CONTRACTOR NEW CONCEPTS</div> <div>WORK STALLED BY</div> <div>INSPECTOR'S FIELD CHANGE BY</div> <div>VERIFICATION BY</div> <div>CORRECTED BY</div> <div>J.M.A. DATE 8-22-91</div> <div>MICRO-FILM INFORMATION</div> <div>RECORDED BY</div> <div>DATE</div> <div>NO</div>											
<div><div>1263791.91129112911</div><div>263791.91129112911</div></div>												<div>CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP</div>												<div>TITLE: EDUCATION PLACE NW HYDROLOGIC & HYDRAULIC CALCULATIONS</div>											
<div>APPROVALS</div>				<div>ENGINEER</div>				<div>DATE</div>				<div>APPROVALS</div>				<div>ENGINEER</div>				<div>DATE</div>															
<div>D.R.C. Chair</div>				<div></div>				<div>5-31-91</div>				<div>Water</div>				<div></div>				<div>5-30-91</div>															
<div>Trans. Dev</div>				<div></div>				<div>5-30-91</div>				<div>Waste Water</div>				<div></div>				<div>"</div>															
<div>Hydrology</div>				<div></div>				<div>5-30-91</div>				<div>N.M.U.I.</div>				<div></div>				<div>"</div>															
<div>DRAWING NO. 3791.91</div>												<div>MAP NO. C-12</div>												<div>SHEET 12 OF 12</div>											