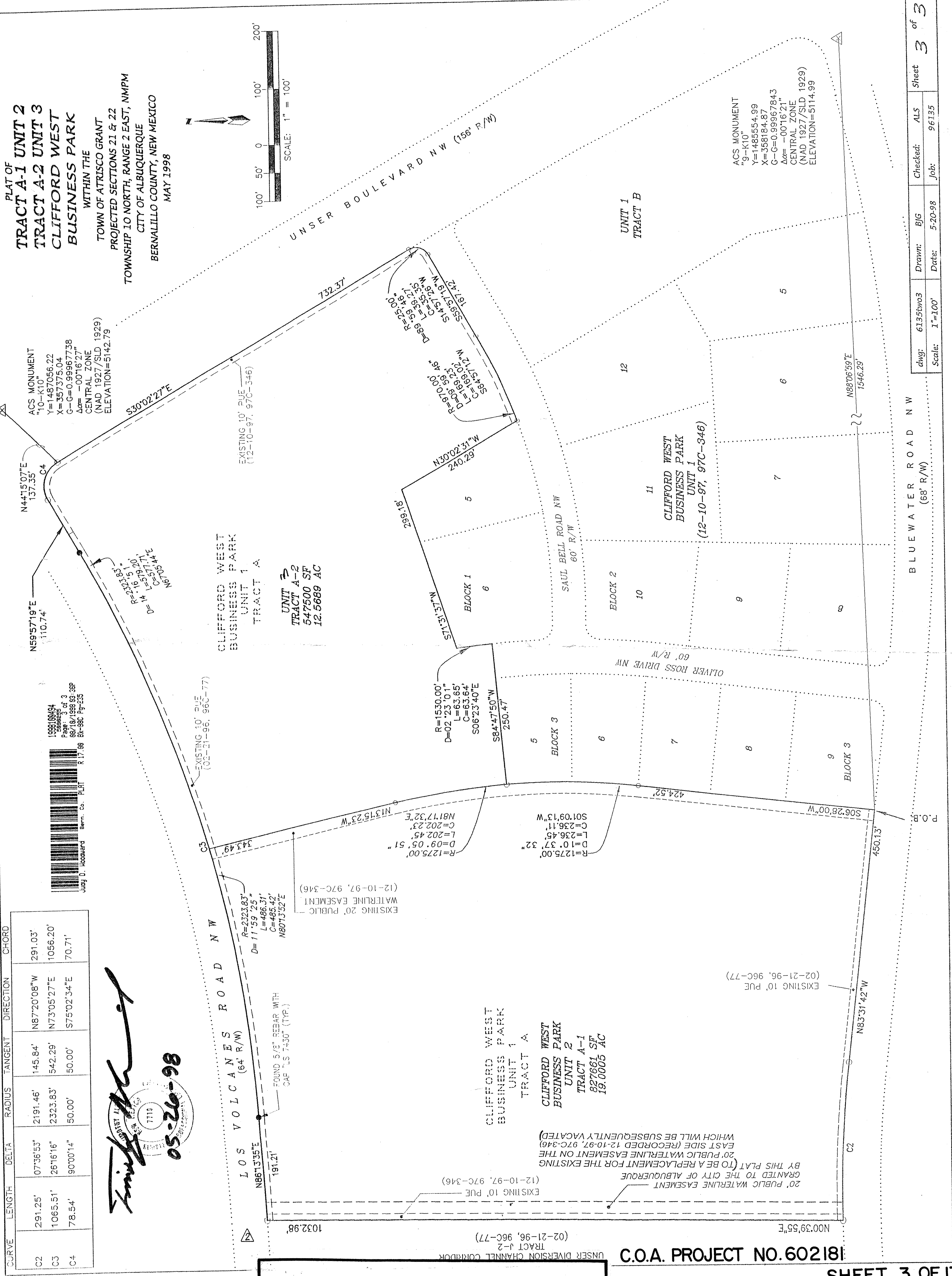


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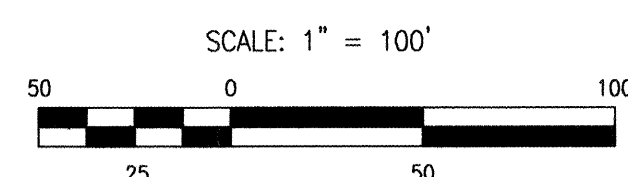
CURVE	LENGTH	DELTA	RADIUS	TANGENT	DIRECTION	CHORD
C2	291.25'	07°36'53"	2191.46'	145.84'	N87°20'08"W	291.03'
C3	1065.51'	26°16'16"	2323.83'	542.29'	N73°05'27"E	1056.20'
C4	78.54'	90°00'14"	50.00'	50.00'	S75°02'34"E	70.71'

Final

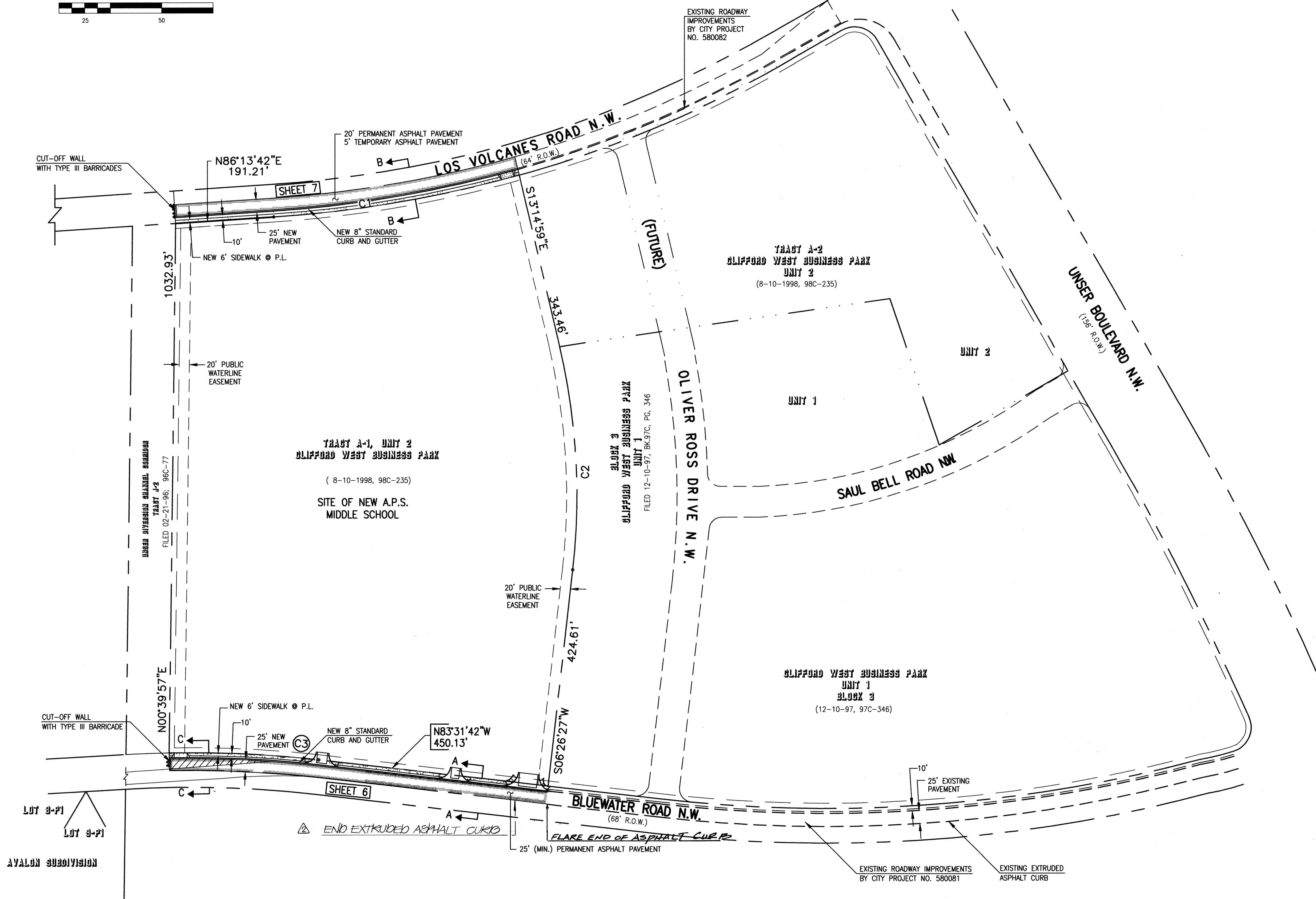
05-26-98



RECORD DRAWING



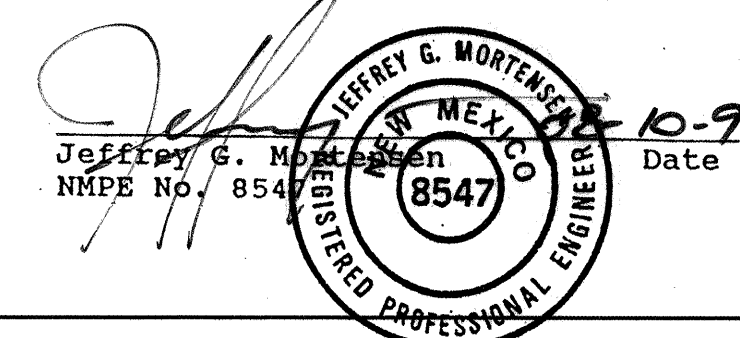
RECORD DRAWING



CURVE	RADIUS	LENGTH	CHORD	BEARING	DELTA
C1	2323.83'	486.23'	485.34'	N80°13'21"E	11°59'18"
C2	1275.00'	438.84'	436.68'	S03°23'28"E	19°43'14"
C3	2191.46'	291.34'	291.12'	N87°20'28"W	07°37'01"

RECORD DRAWING

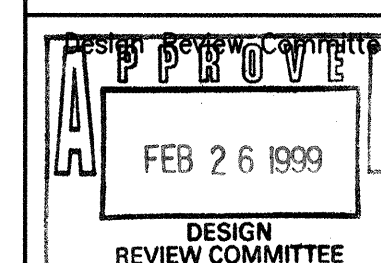
I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief.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



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☐ ALBUQUERQUE ☐ NEW MEXICO 87109
☐ ENGINEERS ☐ SURVEYORS (505) 345-4251

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: WESTSIDE SOUTH MIDDLE SCHOOL INFRASTRUCTURE
PAVING SITE PLAN



City Engineer Approval

Last Design Update

Mo./Da.

fr.

City Project No. _____

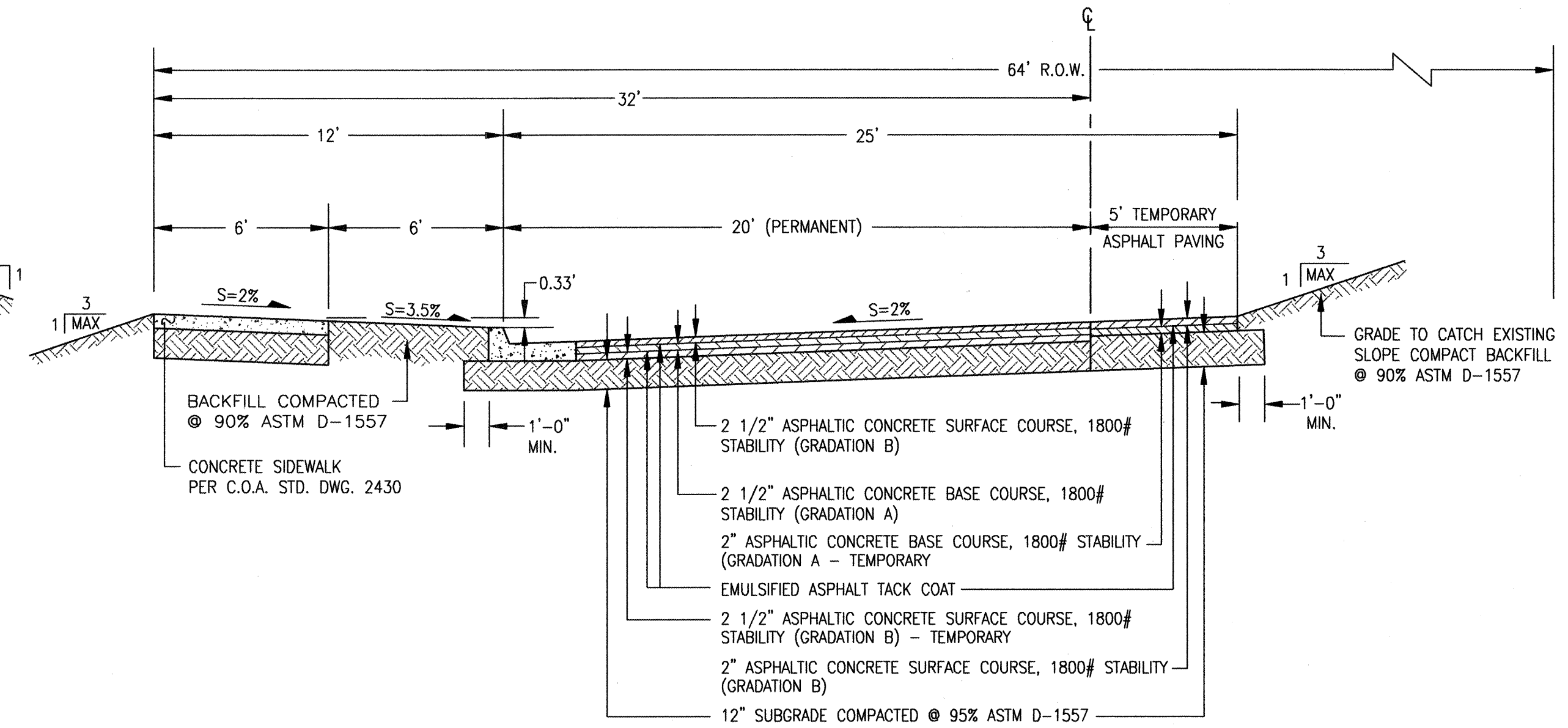
602181

Zone Map No.	K-9
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Sheet	
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4

Of 17



SECTION B-B (LOS VOLCANES ROAD N.W. - THIS CONTRACT)

SCALE: 1"=4'-0"

68' R.O.W.

34'

1.0' MIN.

EDGE OF ASPHALT

6

1

GRADE TO CATCH EXISTING SLOPE. COMPACT BACKFILL @ 90% ASTM D-1557.

BACKFILL COMPACTED @ 95% ASTM D-1557 (6" LIFTS) - INCIDENTAL TO SUBGRADE PREPARATION

2 1/2" ASPHALTIC CONCRETE SURFACE COURSE, 1800# STABILITY (GRADATION B)

EMULSIFIED ASPHALT TACK COAT

2 1/2" ASPHALTIC CONCRETE BASE COURSE, 1800# STABILITY (GRADATION A)

2 1/2" ASPHALTIC CONCRETE BASE COURSE, 1800 # STABILITY (GRADATION A)

12" SUBGRADE COMPACTED @ 95% ASTM D-1557

8" STANDARD CURB & GUTTER PER COA STD. DWG. 2415

S=2%

25'

0.33'

4'

6'

10'

1.0' MIN.

BACKFILL COMPACTED @ 90% ASTM D-1557

CONCRETE SIDEWALK PER C.O.A. STD. DWG. 2430

GRADE TO CATCH EXISTING SLOPE COMPACT BACKFILL @ 90% ASTM D-1557

3' MAX

S=5.25%

S=2%

68' R.O.W.

48' FACE TO FACE

34'

10'

4'

6'

0.33'

S=2%

S=5.25%

24'

24'

0.33'

S=5.25%

S=2%

10'

4'

6'

1.0' MIN.

CONCRETE SIDEWALK
PER C.O.A. STD. DWG. 2430

2 1/2" ASPHALTIC CONCRETE SURFACE COURSE, 1800# STABILITY (GRADATION B)

EMULSIFIED ASPHALT TACK COAT

2 1/2" ASPHALTIC CONCRETE BASE COURSE, 1800# STABILITY (GRADATION A)

2 1/2" ASPHALTIC CONCRETE BASE COURSE, 1800 # STABILITY (GRADATION A)

12" SUBGRADE COMPACTED @ 95% ASTM D-1557

8" STANDARD CURB & GUTTER PER COA STD. DWG. 2415

CONCRETE SIDEWALK
PER C.O.A. STD. DW. 2430

RECORD DRAWING

I, Jeffrey
Professional
of New Mexico
that this

SCALE: 1" = 4'-0"

RECORD DRAWING

1" MIN.

2'-7 1/2"

2'

8"

6"

7 1/2"

STANDARD CURB AND GUTTER
PER C.O.A. STD. DWG. 2415

S=2%

2 1/2" ASPHALTIC CONCRETE SURFACE COURSE
1800# STABILITY (GRADATION 'B')

EMULSIFIED ASPHALT TACK COAT

2 1/2" ASPHALTIC CONCRETE BASE COURSE
1800# STABILITY (GRADATION 'A')

12" SUBGRADE COMPACTED
95% ASTM D-1557
(2-6" LIFTS)

50'

64' R.O.W.

32' 32'

40' FACE TO FACE

12' 12'

6' 6'

20' 20'

8' 4'

0.33' 0.33'

S=2% S=3.5% S=2% S=2% S=3.13% S=2%

1.0' MIN. 1.0' MIN.

CONCRETE SIDEWALK
PER C.O.A. STD. DWG. 2430.

CONCRETE SIDEWALK
PER C.O.A. STD. DWG. 2430.

2 1/2" ASPHALTIC CONCRETE SURFACE COURSE, 1800# STABILITY (GRADATION B)

EMULSIFIED ASPHALT TACK COAT

2 1/2" ASPHALTIC CONCRETE BASE COURSE, 1800# STABILITY (GRADATION A)

2 1/2" ASPHALTIC CONCRETE BASE COURSE, 1800 # STABILITY (GRADATION A)

12" SUBGRADE COMPACTED @ 95% ASTM D-1557

8" STANDARD CURB & GUTTER PER COA STD. DWG. 2415

2'-1 1/4"

10'-0"

8'-0"

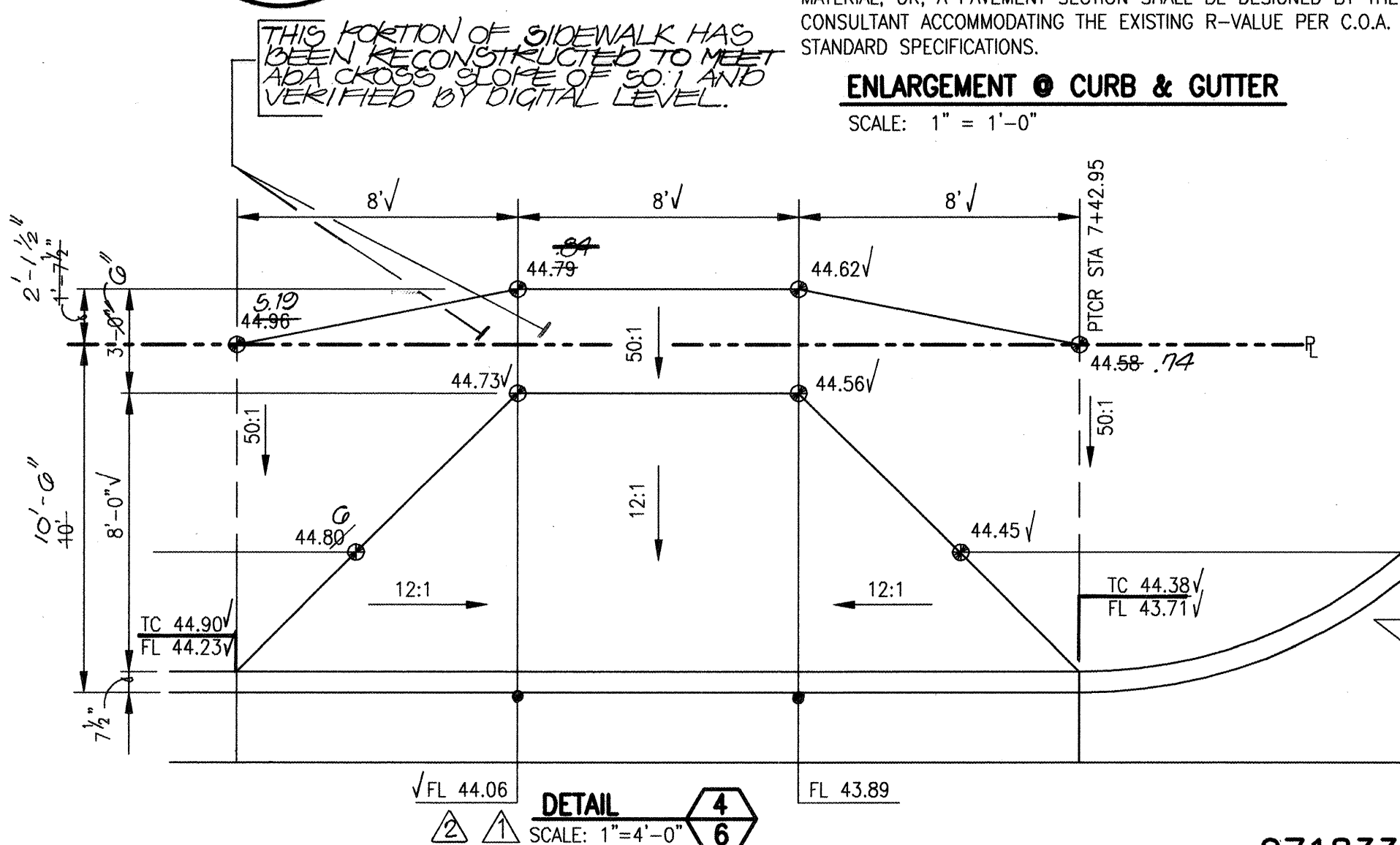
ENLARGEMENT @ CURB & GUTTER

Jeffrey G. Mortensen
NMEP No. 8547

NEW MEXICO
8547
REGISTERED PROFESSIONAL ENGINEER

08-10-97 Date

THIS PORTION OF SIDEWALK HAS
BEEN RECONSTRUCTED TO MEET
ADA CROSS SLOPE OF 30:1 AND
VERIFIED BY DIGITAL LEVEL.



JEFF MORTENSEN & ASSOCIATES, INC.
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☐ ENGINEERS ☐ SURVEYORS (505) 345-4250

ENGINEER'S SEAL
ADDENDUM No. 1

01-21-99

04

PROFESSIONAL ENGINEER
NEW MEXICO
8547
JEFFREY G. MORFITT REGISTERED

		MBS		Date 01-1999
		J.G.M.		Date 01-1999
		BY		Date 01-1999

AS-BUILT & CERTIFY	
ADD DETAIL 4	
	REMARKS
	Revisions
	DESIGN
	JAP./G.R.B./M.D.S.
	J.Y.R.
	J.G.M.

[illegible]

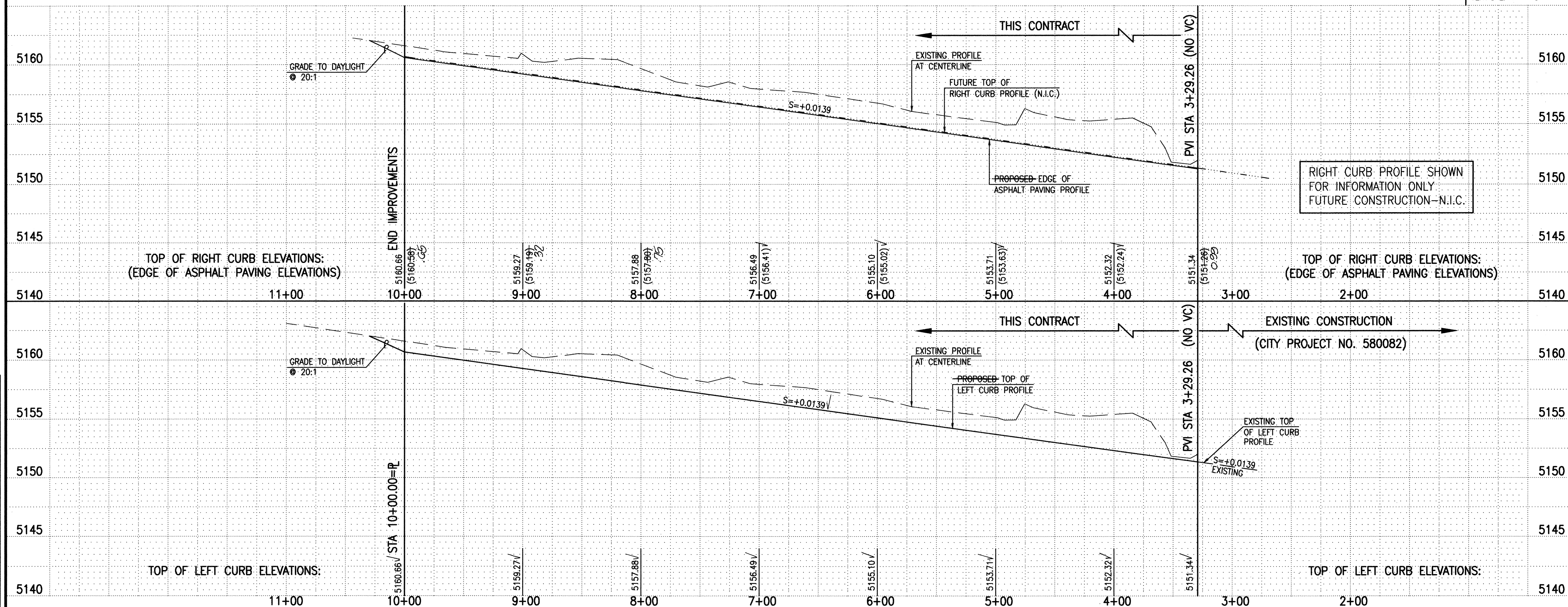
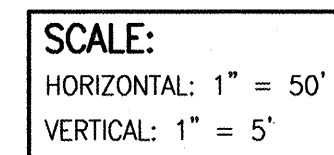
NT
GROUP

INFRASTRUCTURE
DETAILS

Mo./Day/Yr.	Mo./Day/Yr.

Sheet	Of
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RECORD DRAWING



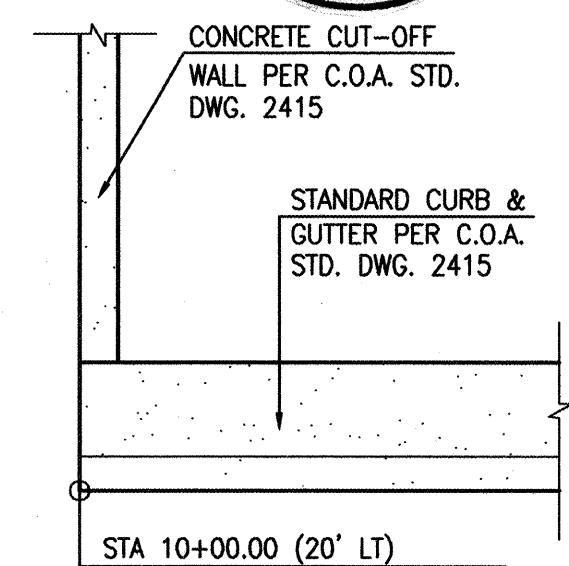
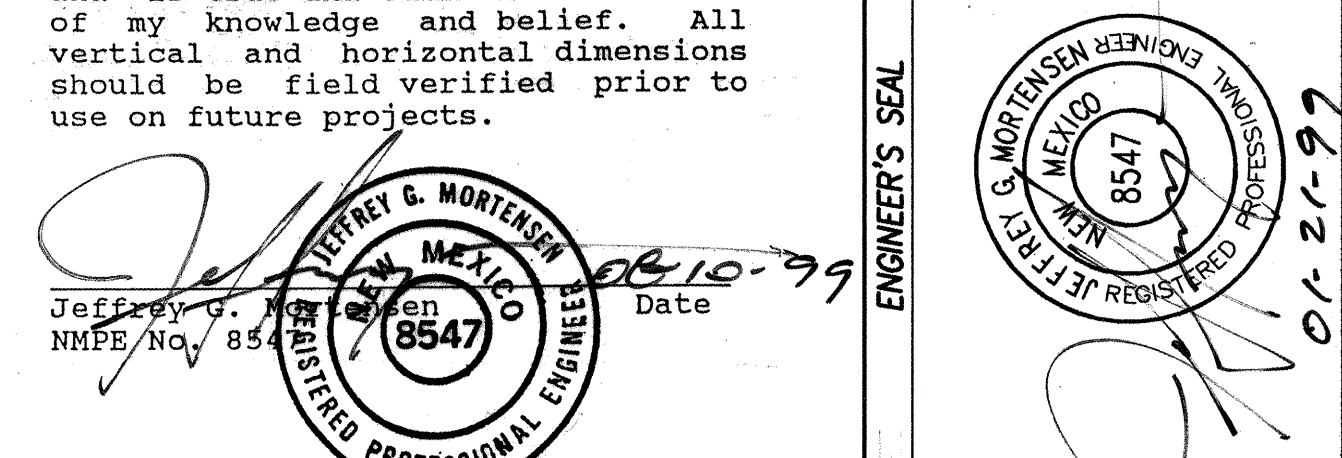
STREET PAVING IMPROVEMENTS:

1. ALL SLOPES AS SHOWN ON PROFILES ARE BASED ON STREET CENTERLINE STATIONING UNLESS OTHERWISE NOTED.
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 SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
3. ALL DIMENSIONS OF CURB AND CURB RETURNS ARE SHOWN TO FACE OF CURB.

SURVEY INFORMATION			BENCH MARKS		AS BUILT INFORMATION	
FIELD NOTES						
NO.	BY	DATE				
980623	J.M.A.	8/10/98	STATION IS AN ACS 3 3/4" ALUMINUM CAP SET FLUSH IN TOP OF A CURB AND IS STAMPED "10-K10, 1988". THE STATION IS IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF UNSER BLVD. N.W. AND LOS VOLCANES ROAD N.W. IN A TRAFFIC ISLAND AND IS SHOWN ON THE DRAWING.		CONTRACTOR <u>FRANKLINS EARTHMOVING</u> DRAWN BY <u>J.M.A.</u> DATE <u>08/19/98</u> INSPECTOR'S ACCEPTANCE BY <u>M.D.B./R. Paro</u> DATE <u>08/19/98</u> FIELD VERIFICATION BY <u>M.D.B./J.M.A.</u> DATE <u>08/19/98</u> DRAWINGS CORRECTED BY <u>J.M.A.</u> DATE <u>08/19/98</u>	
			ELEVATION = 5142.79 (M.S.L.D.)		MICRO-FILM INFORMATION	
					RECORDED BY _____ DATE _____	
					INDEXED BY _____ DATE _____	

RECORD DRAWING

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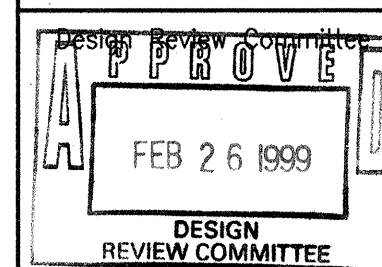
DETAIL
SCALE: 1"=4'



971833

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: WESTSIDE SOUTH MIDDLE SCHOOL INFRASTRUCTURE
LOS VOLCANES RD. NW PAVING IMPROVEMENTS PLAN AND PROFILE
STA. 3+29.26 TO STA. 10+00.00



City Engineer Approval

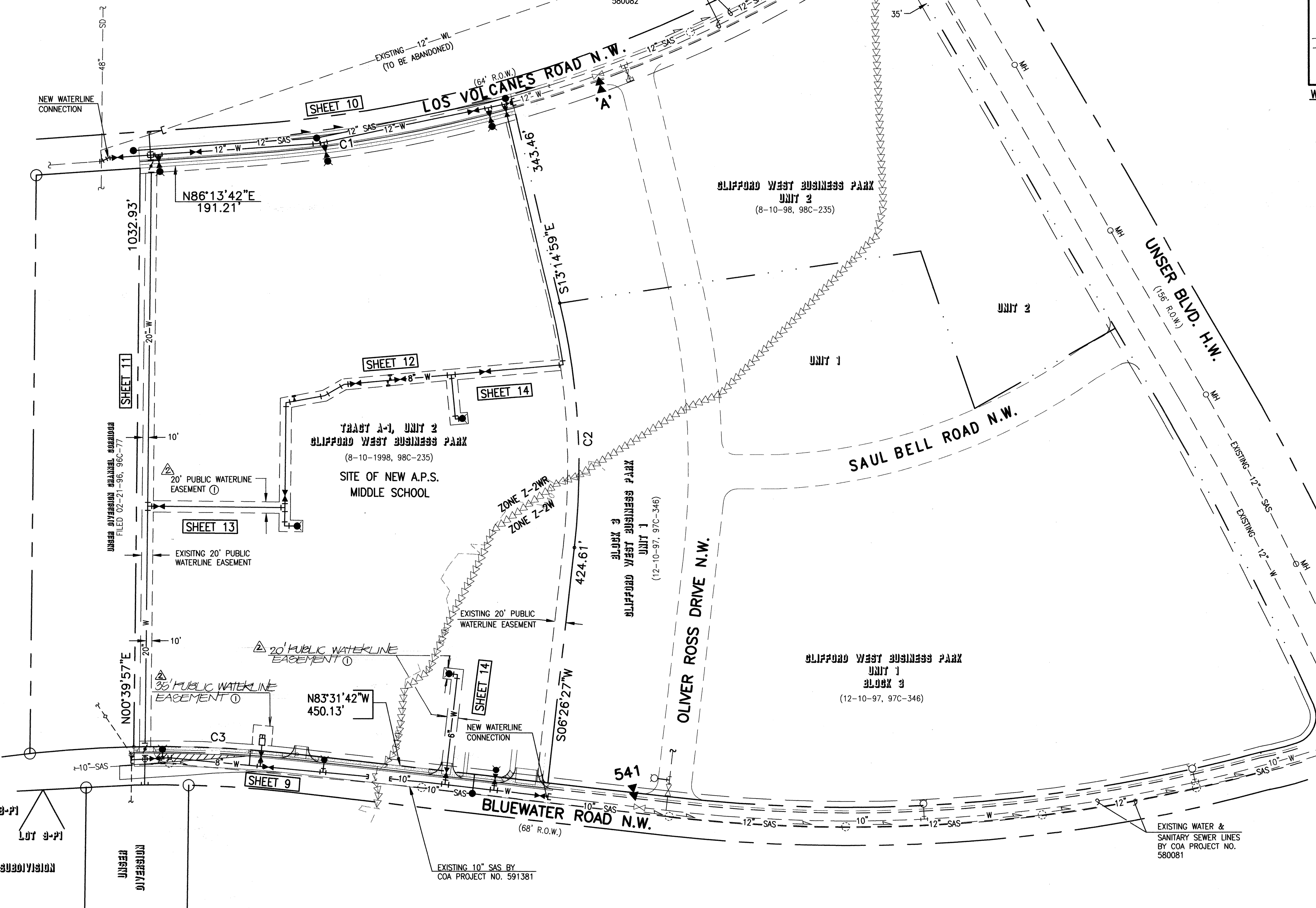
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Mo./Day/Yr.

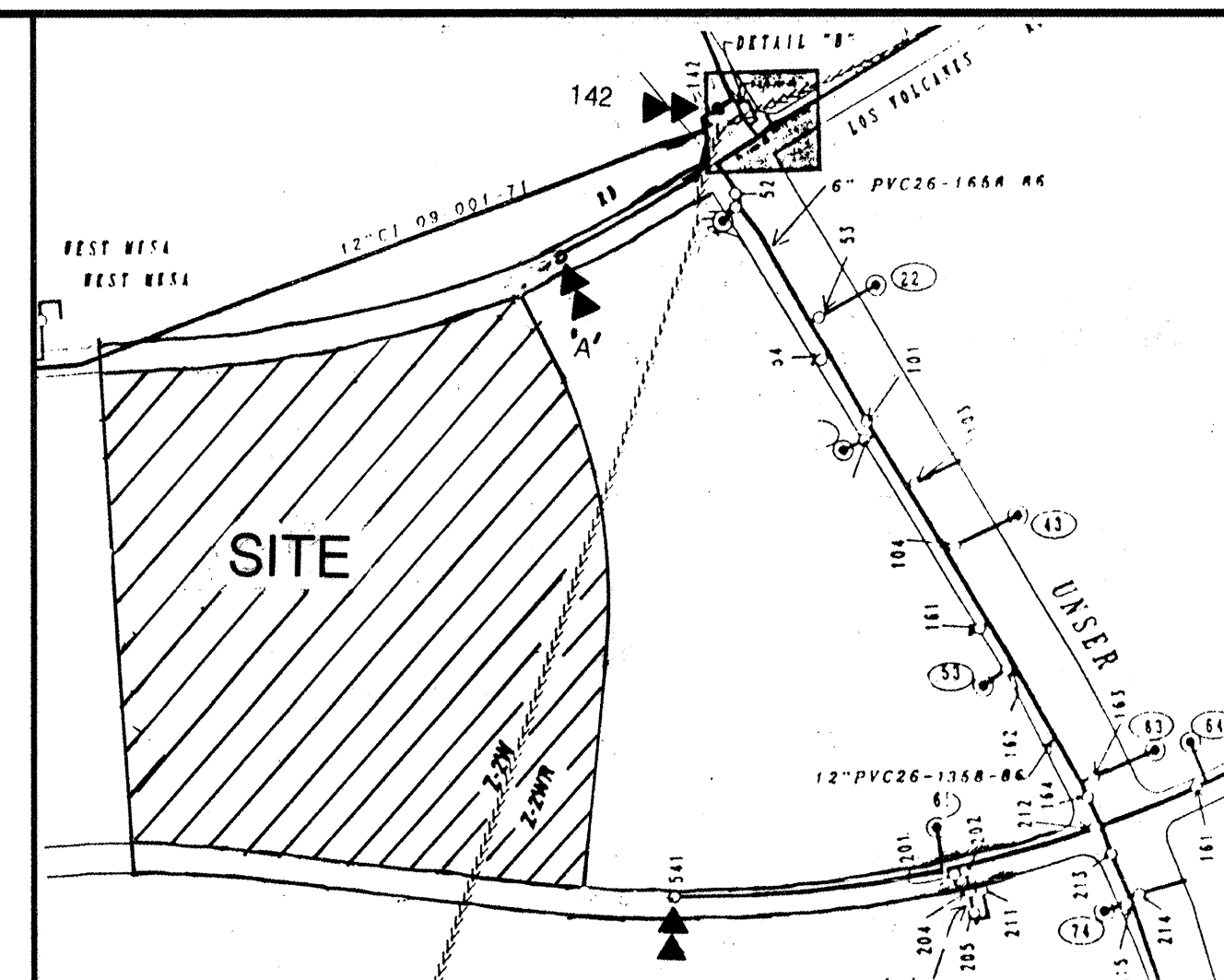
City Project No.	602181
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Zone Map No.
K-9

Sheet 7 Of 17



RECORD DRAWING



WATER VALVE SHUTOFF PLAN K-9/K-1

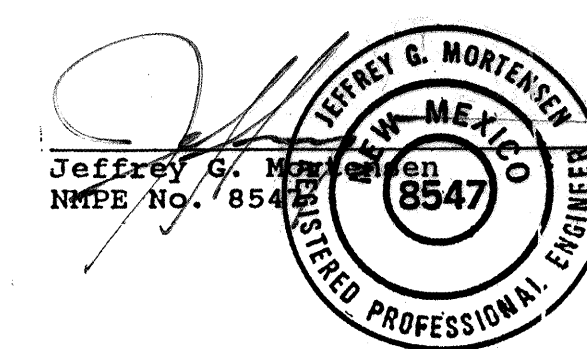
- WATER VALVE SHUTOFF PLAN:**
1. AS A MINIMUM, THE FOLLOWING VALVES SHALL BE CLOSED TO FACILITATE THE PROPOSED CONNECTIONS:
 - A. LOS VENTOSAS ROAD NW: 142, A
 - B. BLUEWATER ROAD NW: 541
 2. THE CONTRACTOR SHALL NOTIFY WATER SYSTEMS FIVE (5) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING WATERLINES. THE WATER SYSTEM DIVISION PERSONNEL (857-8200) SHALL PERFORM ALL SHUTOFFS.
 3. THE CONTRACTOR SHALL PROVIDE ALL RESTRAINTS AND THRUST BLOCKS NECESSARY TO EFFECT ALL NECESSARY SHUTOFFS AND CONNECTIONS.
 4. EXISTING WATER VALVE AND WATERLINE INFORMATION OBTAINED FROM THE CITY OF ALBUQUERQUE AUTOMATED WATER SYSTEM SECTIONAL MAPS AND DESIGN DRAWING FOR CLIFFORD WEST BUSINESS PARK UNITS 1 & 2 PREPARED BY MARK GOODWIN & ASSOCIATES, P.A. (COA PROJECT NOS. 580081 & 580082, RESPECTIVELY).
 5. AT THE TIME OF WATER SHUTOFF APPLICATION, THE CONTRACTOR SHALL REQUEST THAT WATER SYSTEM DIVISION NOTIFY ALL AFFECTED PROPERTY OWNERS AT LEAST TWENTY-FOUR (24) HOURS IN ADVANCE OF THE RESPECTIVE SHUTOFFS.

△ KEYED NOTES:

① PUBLIC WATERLINE EASEMENT GRANTED BY ALBUQUERQUE PUBLIC SCHOOLS TO THE CITY OF ALBUQUERQUE BY DOC. # 199903037348, FILED: 03/18/1999 IN BOOK 2204, PAGE 7233, RECORDS OF BERNALILLO COUNTY

RECORD DRAWING

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☐ ALBUQUERQUE ☐ NEW MEXICO 87109
☐ ENGINEERS ☐ SURVEYORS (505) 345-4250

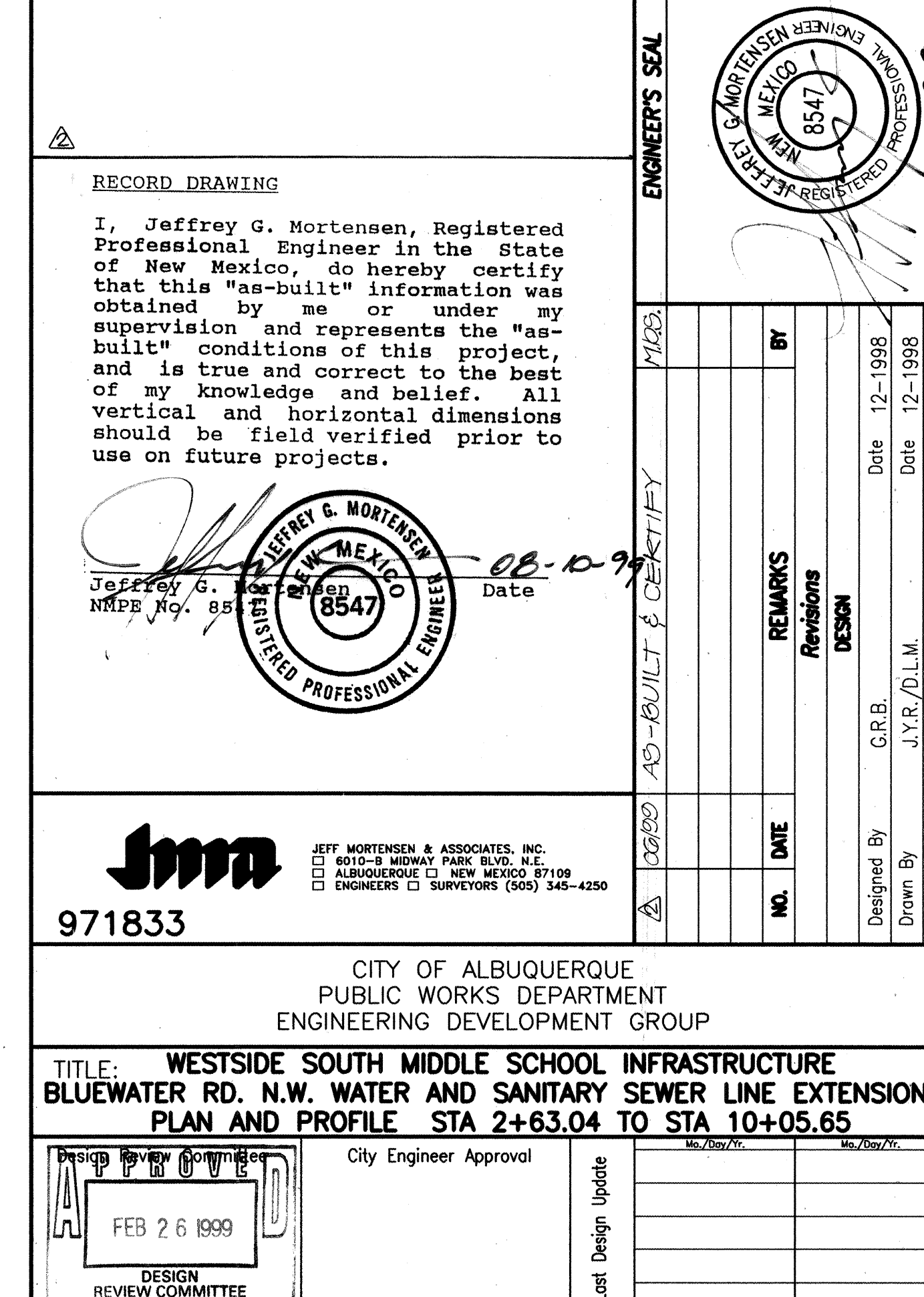
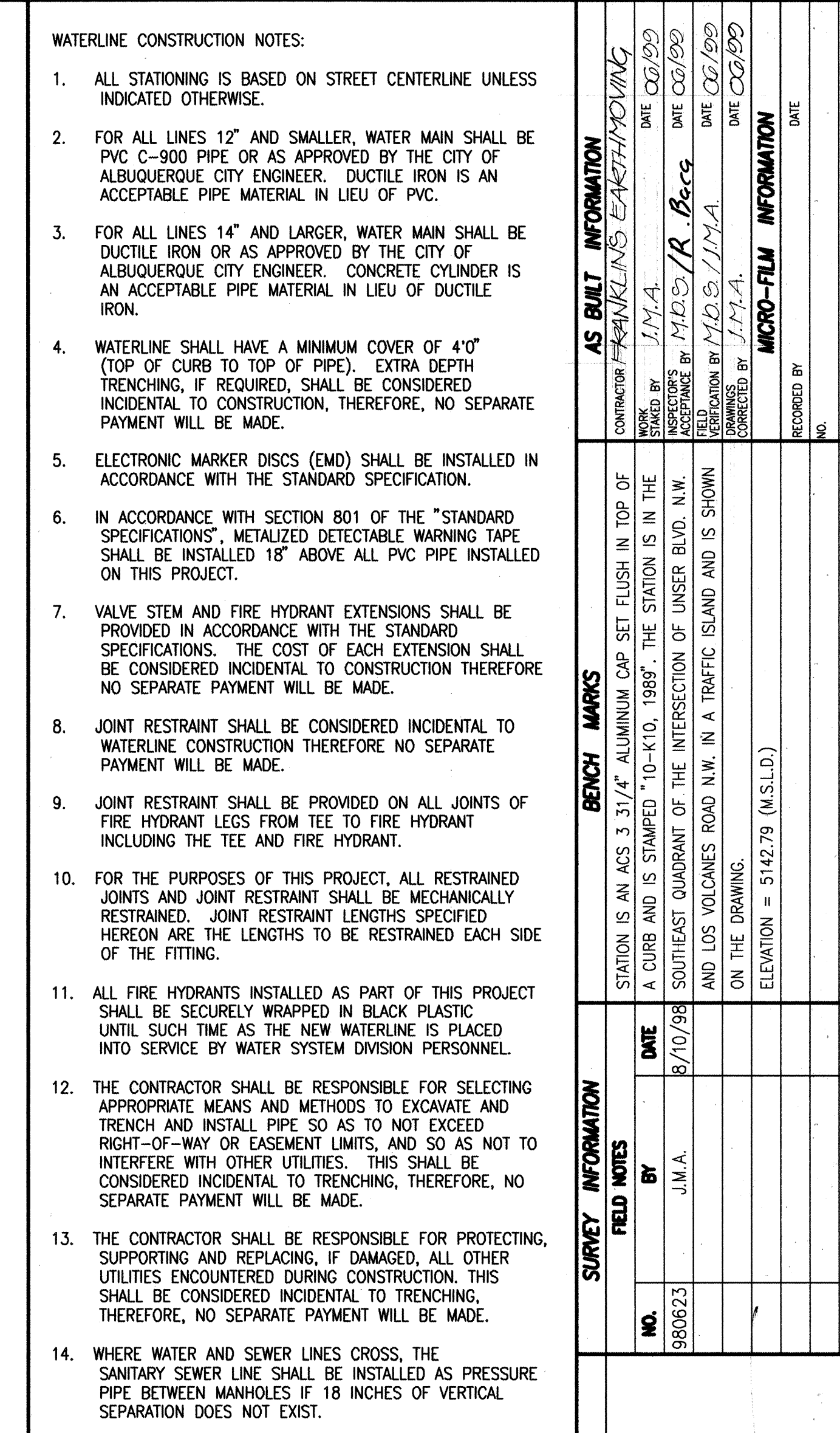
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: WESTSIDE SOUTH MIDDLE SCHOOL INFRASTRUCTURE
WATER AND SANITARY SEWER LINE EXTENSIONS
SITE PLAN

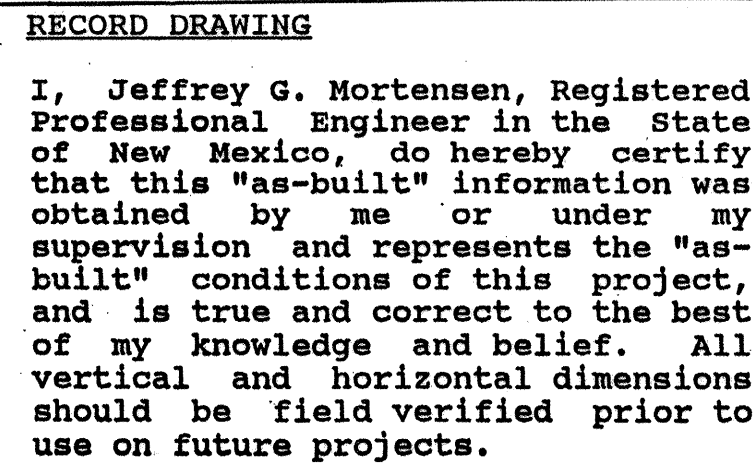


City Engineer Approval

City Project No. 602181	Zone Map No. K-9	Sheet 8 Of 17
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RECORD DRAWING



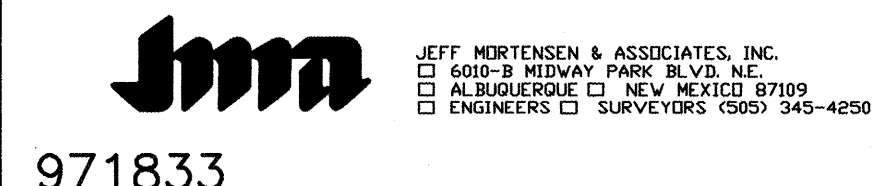
LOS VOLCANES ROAD N.W.

WATERLINE CONSTRUCTION NOTES:

1. ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.
2. 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.
3. FOR ALL LINES 14" AND LARGER, WATER MAIN SHALL BE DUCTILE IRON OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. CONCRETE CYLINDER IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF DUCTILE IRON.
4. 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.
5. ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
6. IN ACCORDANCE WITH SECTION 801 OF THE "STANDARD SPECIFICATIONS", METALIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.
7. 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.
8. JOINT RESTRAINT SHALL BE CONSIDERED INCIDENTAL TO WATERLINE CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
9. JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE HYDRANT LEGS FROM TEE TO FIRE HYDRANT INCLUDING THE TEE AND FIRE HYDRANT.
10. FOR THE PURPOSES OF THIS PROJECT, ALL RESTRAINED JOINTS AND JOINT RESTRAINT SHALL BE MECHANICALLY RESTRAINED. JOINT RESTRAINT LENGTHS SPECIFIED HEREON ARE THE LENGTHS TO BE RESTRAINED EACH SIDE OF THE FITTING.
11. ALL FIRE HYDRANTS INSTALLED AS PART OF THIS PROJECT SHALL BE SECURELY WRAPPED IN BLACK PLASTIC UNTIL SUCH TIME AS THE NEW WATERLINE IS PLACED INTO SERVICE BY WATER SYSTEM DIVISION PERSONNEL.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
14. WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE INSTALLED AS PRESSURE PIPE BETWEEN MANHOLES IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.

SANITARY SEWER CONSTRUCTION NOTES:

1. ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.
2. ALL SEWER PIPE SHALL BE PVC (SDR-35).
3. SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
4. ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE "E" AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED. MANHOLE STEPS SHALL BE DELETED FROM THIS CONTRACT.
5. SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS (EMD) AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125. EMD SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE:	WESTSIDE SOUTH MIDDLE SCHOOL INFRASTRUCTURE LOS VOLCANES RD. NW WATER AND SANITARY SEWER LINE EXTENSIONS PLAN AND PROFILE STA. 3+29.26 TO STA. 10+10.00

Design Review Committee

APPROVED

FEB 26 1999

**DESIGN
REVIEW COMMITTEE**

City Engineer Approval

City Project No.	602181	Zone Map No.	K-9	Sheet	10	Of	17
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[illegible]

RECORD DRAWING

WATERLINE CONSTRUCTION NOTES:

- ALL STATIONING IS BASED ON EASEMENT CENTERLINE UNLESS INDICATED 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.
- FOR ALL LINES 14" AND LARGER, WATER MAIN SHALL BE DUCTILE IRON OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. CONCRETE CYLINDER IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF DUCTILE IRON.
- WATERLINE SHALL HAVE A MINIMUM COVER OF 6' (EXISTING GRADE TO TOP OF PIPE). EXTRA DEPTH TRENCHING, IF REQUIRED, UNLESS OTHERWISE NOTED, 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, UNLESS OTHERWISE NOTED.
- JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE HYDRANT LEGS FROM TEE TO FIRE HYDRANT INCLUDING THE TEE AND FIRE HYDRANT.
- FOR THE PURPOSES OF THIS PROJECT, ALL RESTRAINED JOINTS AND JOINT RESTRAINT SHALL BE MECHANICALLY RESTRAINED. JOINT RESTRAINT LENGTHS SPECIFIED HEREON ARE THE LENGTHS TO BE RESTRAINED EACH SIDE OF THE FITTING.
- ALL FIRE HYDRANTS INSTALLED AS PART OF THIS PROJECT SHALL BE SECURELY WRAPPED IN BLACK PLASTIC UNTIL SUCH TIME AS THE NEW WATERLINE IS PLACED INTO SERVICE BY WATER SYSTEM DIVISION PERSONNEL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- WHERE WATER AND SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE INSTALLED AS PRESSURE PIPE BETWEEN MANHOLES IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.

RECORD DRAWING

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Jeffrey G. Mortensen
N.M.P.E. No. 8547
REGISTERED PROFESSIONAL ENGINEER

971833

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: WESTSIDE SOUTH MIDDLE SCHOOL INFRASTRUCTURE
20" MASTER PLAN WATERLINE
PLAN AND PROFILE STA 9+32.00 TO STA 20+97.89

DESIGN REVIEW COMMITTEE
FEB 26 1999

City Engineer Approval

Last Design Update

City Project No. 602181 Zone Map No. K-9 Sheet 11 of 17

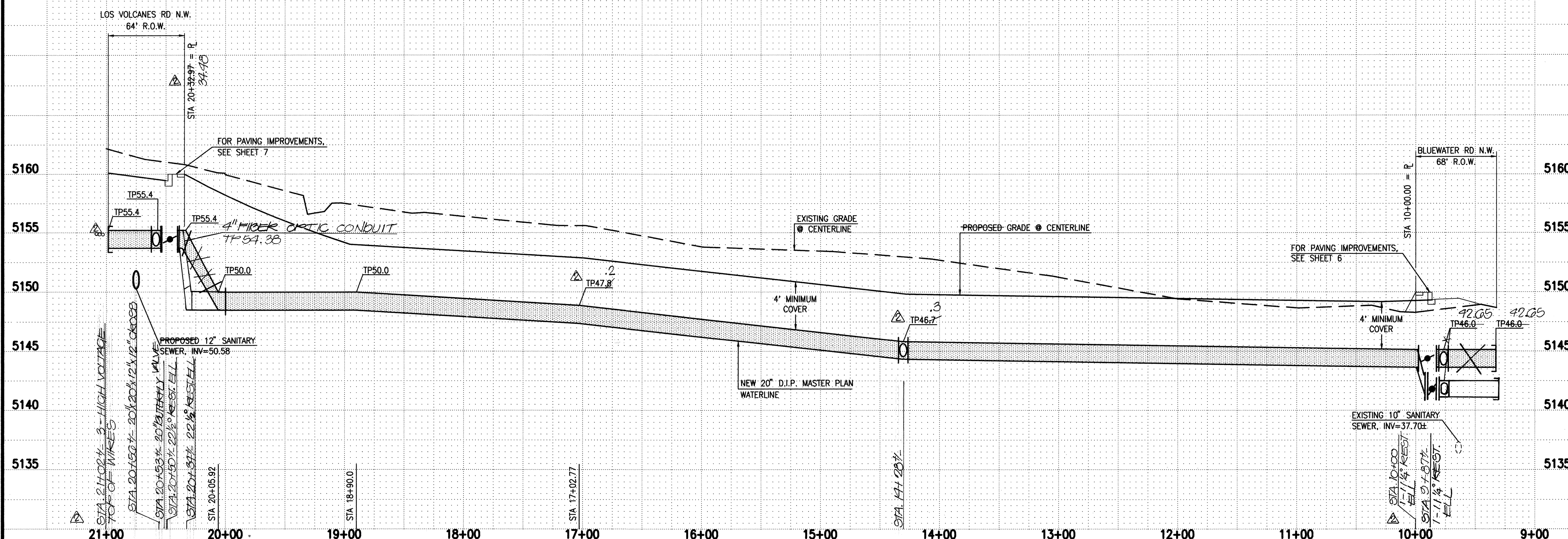
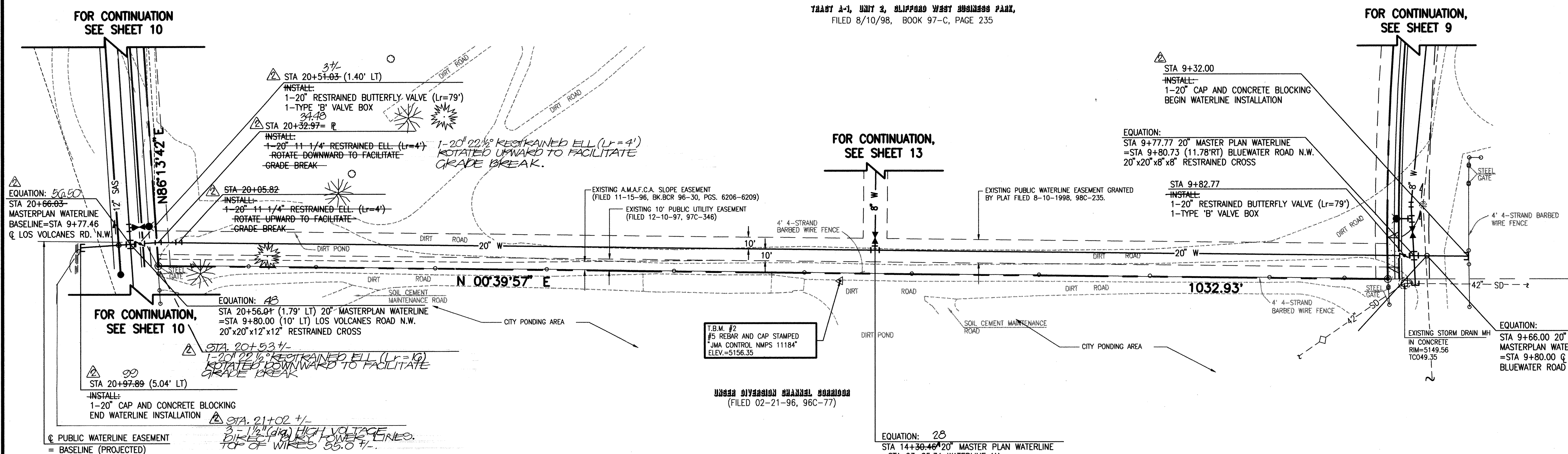
FUTURE MIDDLE SCHOOL SITE
TRACET 1-1, UNIT 2, BLIFFSIDE WEST BUSINESS PARK,
FILED 8/10/98, BOOK 97-C, PAGE 235

FOR CONTINUATION,
SEE SHEET 13

FOR CONTINUATION,
SEE SHEET 9

20" MASTER PLAN WATERLINE

SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



RECORD DRAWING

WATERLINE CONSTRUCTION NOTES:

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- JOINT RESTRAINT SHALL BE CONSIDERED INCIDENTAL TO WATERLINE CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE, UNLESS OTHERWISE NOTED.
- JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE HYDRANT LEGS FROM TEE TO FIRE HYDRANT INCLUDING THE TEE AND FIRE HYDRANT.
- FOR THE PURPOSES OF THIS PROJECT, ALL RESTRAINED JOINTS AND JOINT RESTRAINT SHALL BE MECHANICALLY RESTRAINED. JOINT RESTRAINT LENGTHS SPECIFIED HEREON ARE THE LENGTHS TO BE RESTRAINED EACH SIDE OF THE FITTING.
- ALL FIRE HYDRANTS INSTALLED AS PART OF THIS PROJECT SHALL BE SECURELY WRAPPED IN BLACK PLASTIC UNTIL SUCH TIME AS THE NEW WATERLINE IS PLACED INTO SERVICE BY WATER SYSTEM DIVISION PERSONNEL.
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- WHERE WATER AND SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE INSTALLED AS PRESSURE PIPE BETWEEN MANHOLES IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.

RECORD DRAWING

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Jeffrey G. Mortensen
N.M.P.E. No. 8547
REGISTERED PROFESSIONAL ENGINEER
Date 06-10-99

Jma
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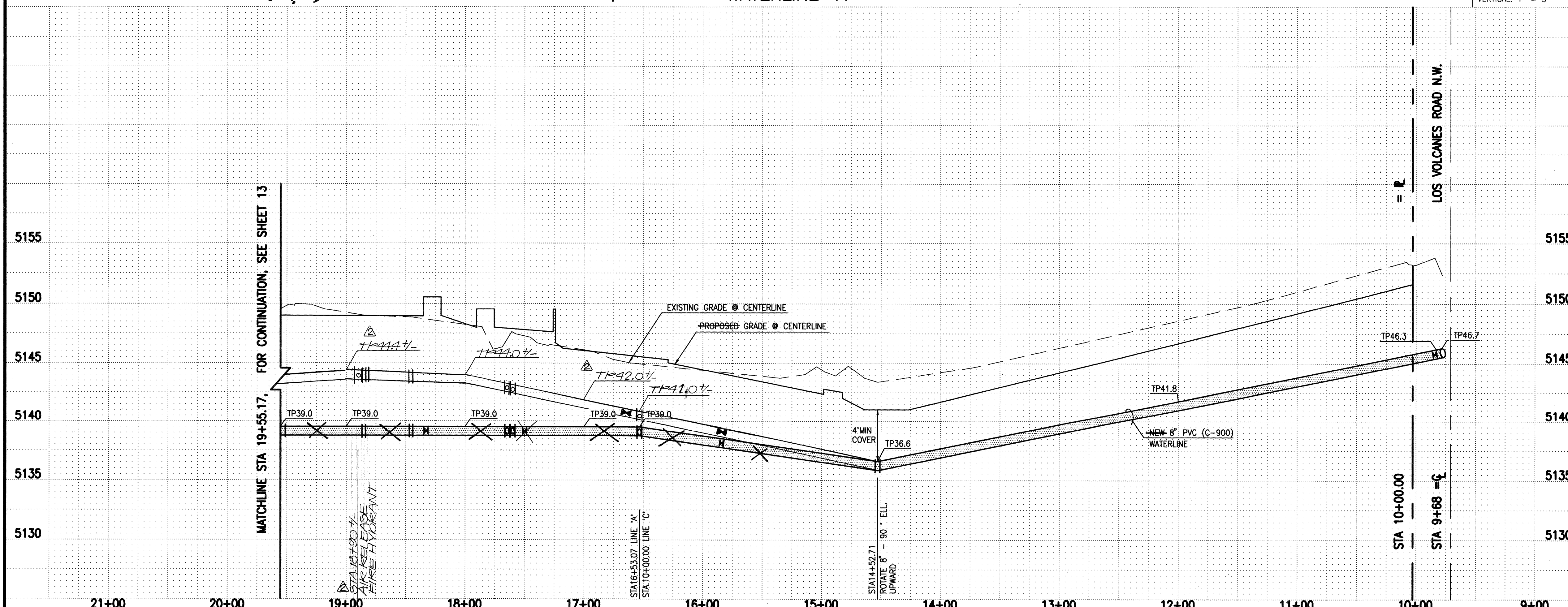
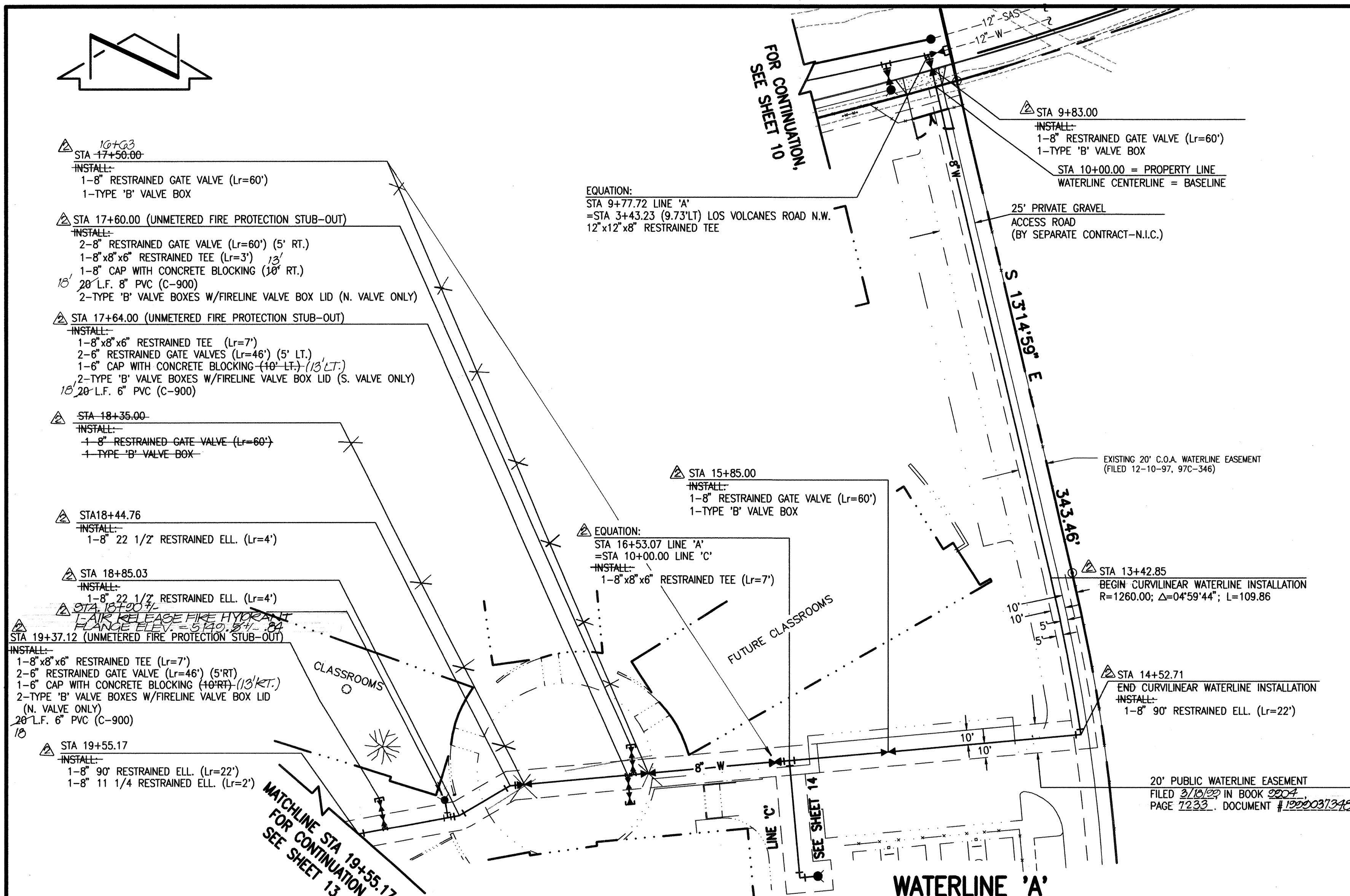
JEFF MORTENSEN & ASSOCIATES, INC.
600 S. HIGHWAY 100, SUITE 100
ALBUQUERQUE, NEW MEXICO 87102
ENGINEERS & SURVEYORS (505) 345-4200

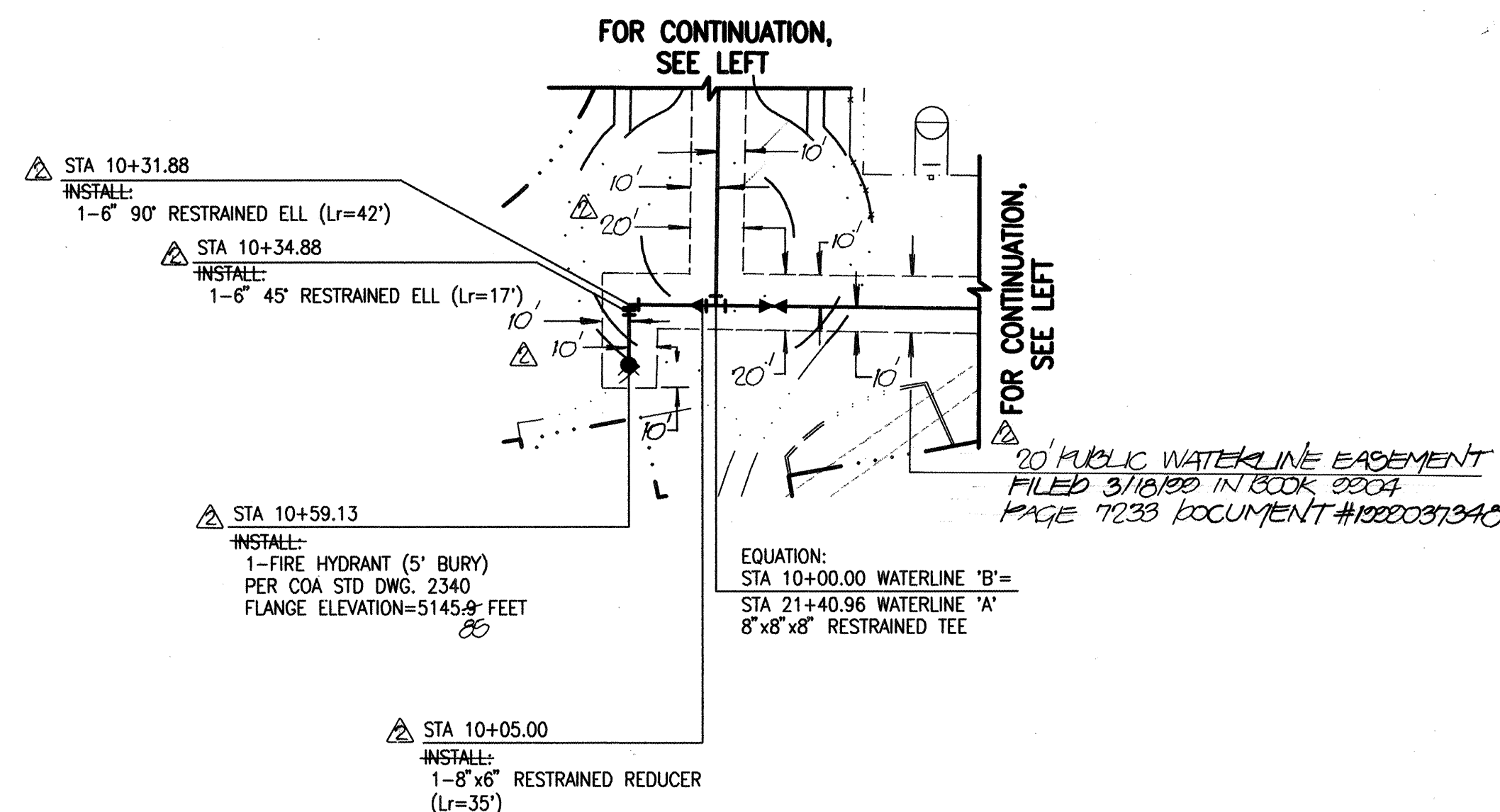
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: WESTSIDE SOUTH MIDDLE SCHOOL INFRASTRUCTURE IMPROVEMENTS
WATERLINE 'A' PLAN AND PROFILE
STA 9+77.72 TO STA 19+55.17

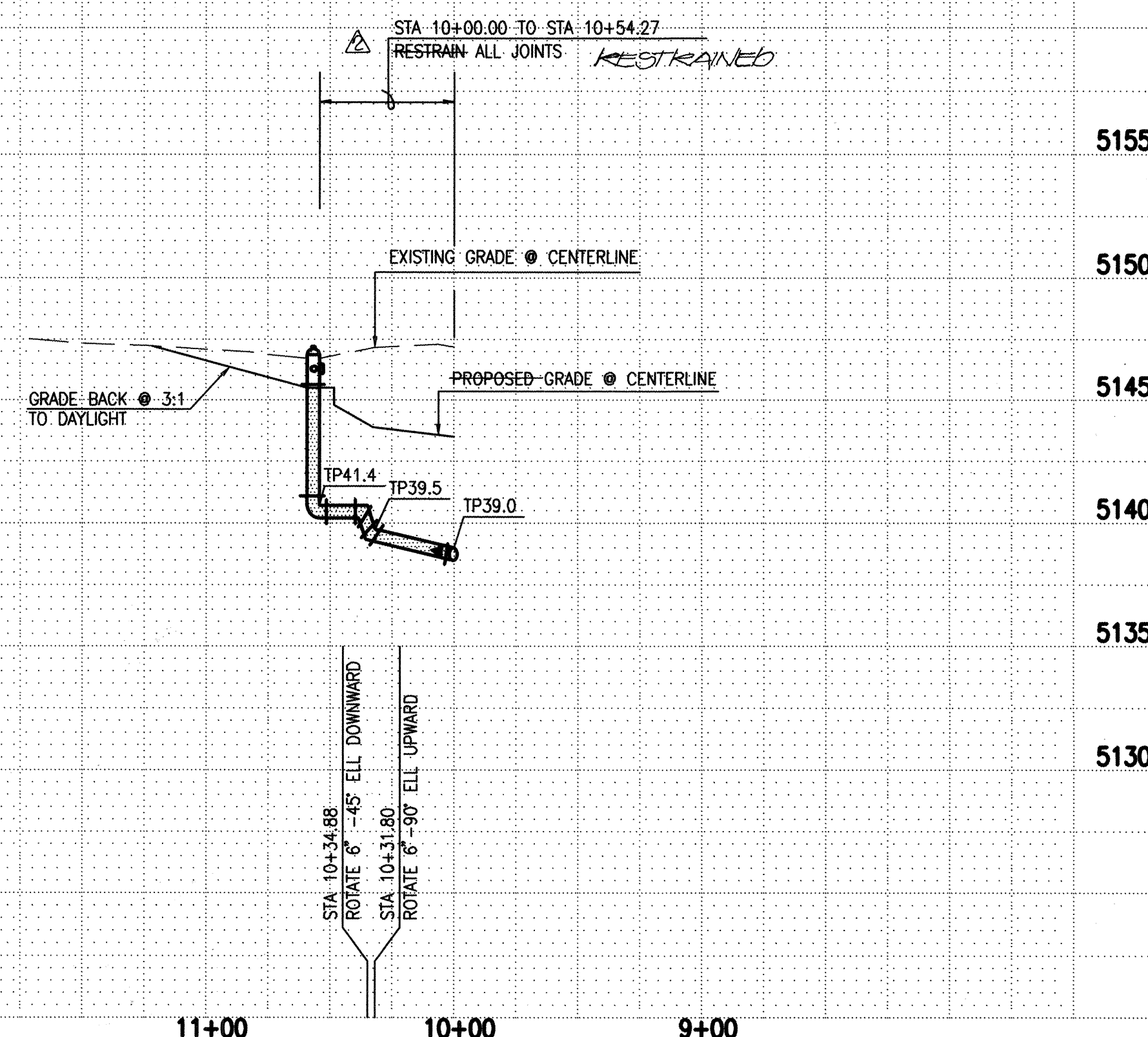
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REVIEW	City Engineer Approval	City Engineer
COMMITTEE	City Engineer Approval	City Engineer

City Project No. 602181 Zone Map No. K-9 Sheet 12 of 17






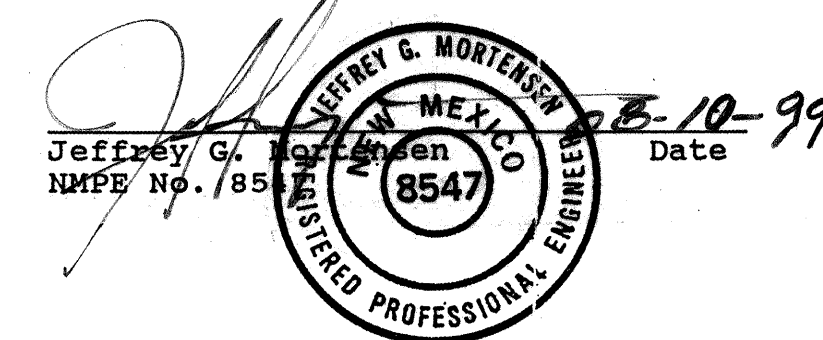
WATERLINE 'B'



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 14. WHERE WATER AND SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE INSTALLED AS PRESSURE PIPE BETWEEN MANHOLES IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.

RECORD DRAWING

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JEFF MORTENSEN & ASSOCIATES, INC.
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☐ ALBUQUERQUE ☐ NEW MEXICO 87109
☐ ENGINEERS ☐ SURVEYORS (505) 345-4250

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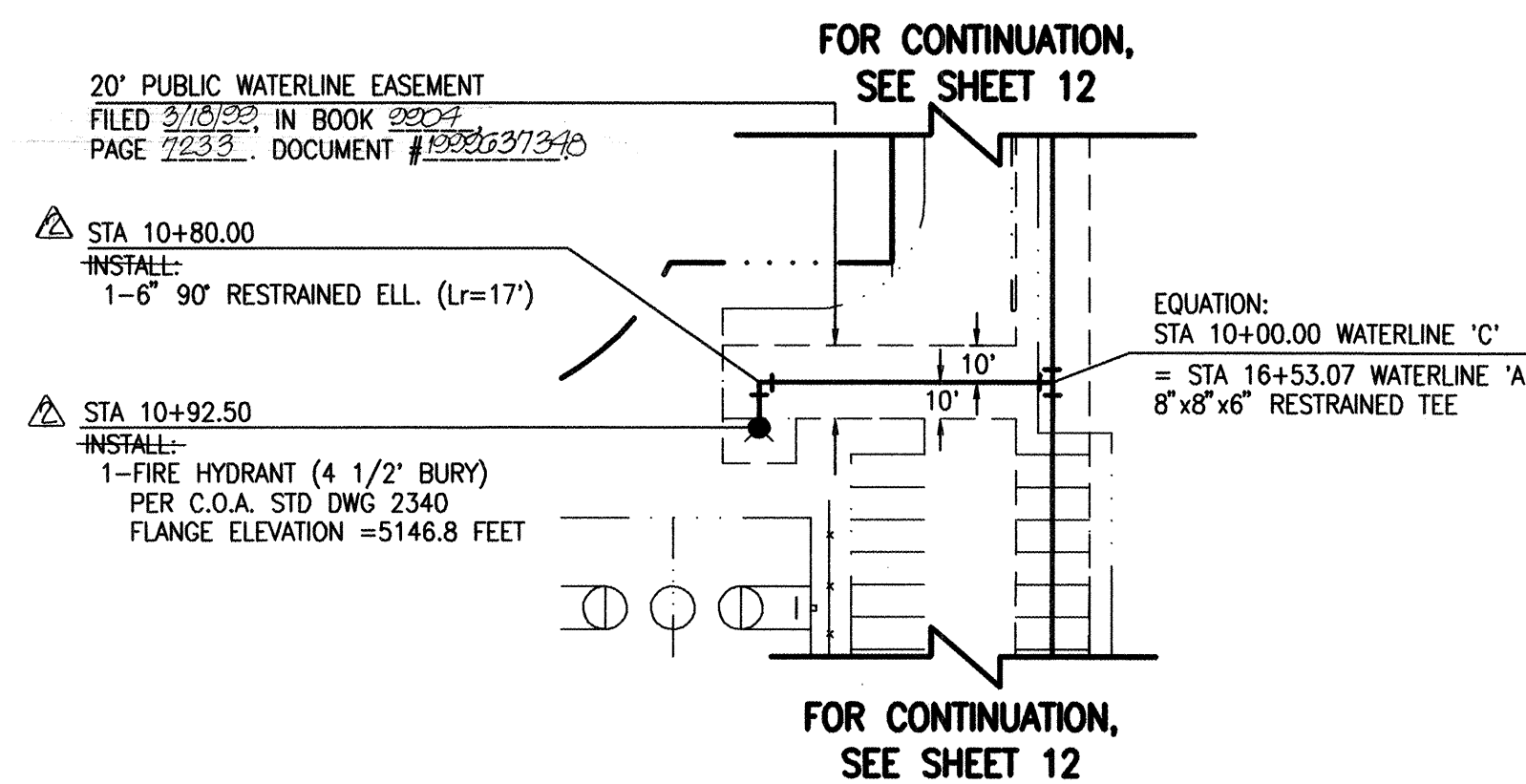
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: WESTSIDE SOUTH MIDDLE SCHOOL INFRASTRUCTURE	
WATERLINE 'A' PLAN AND PROFILE STA 19+55.17 TO STA 23+85.31	
WATERLINE 'B' PLAN AND PROFILE STA 10+00.00 TO STA 10+54.27	

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City Project No.	602181	Zone Map No.	K-9	Sheet	13	Of	17
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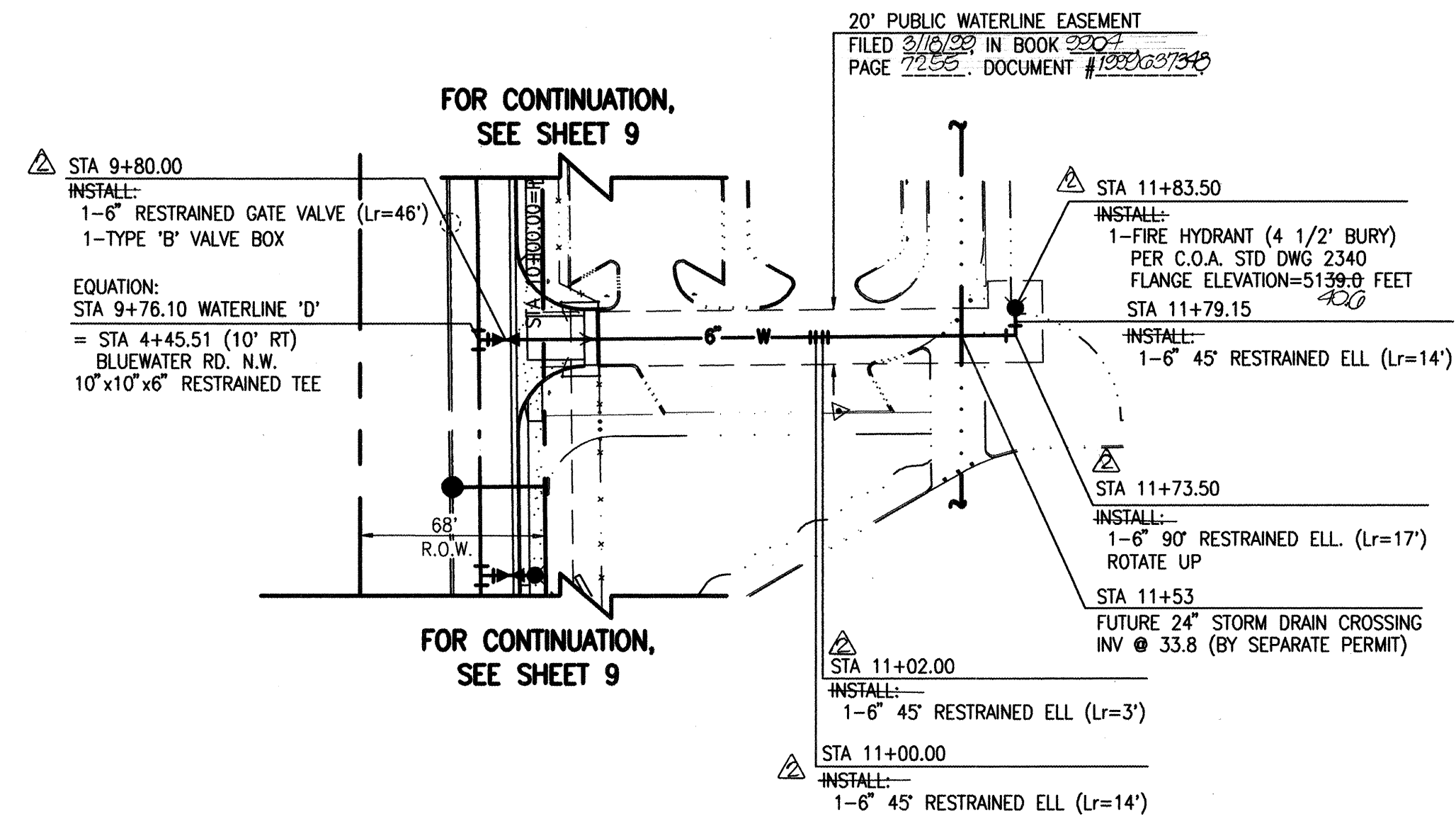
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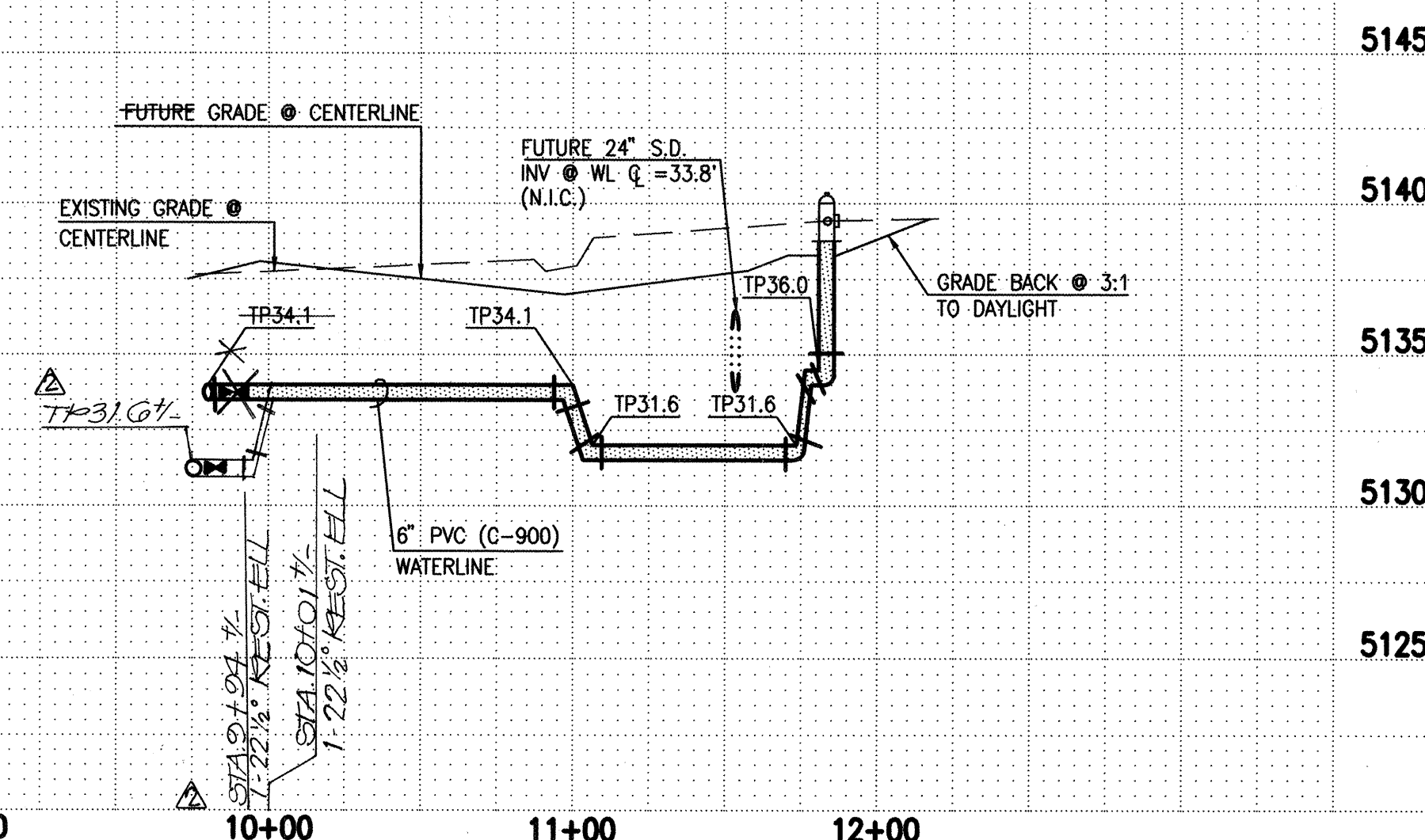
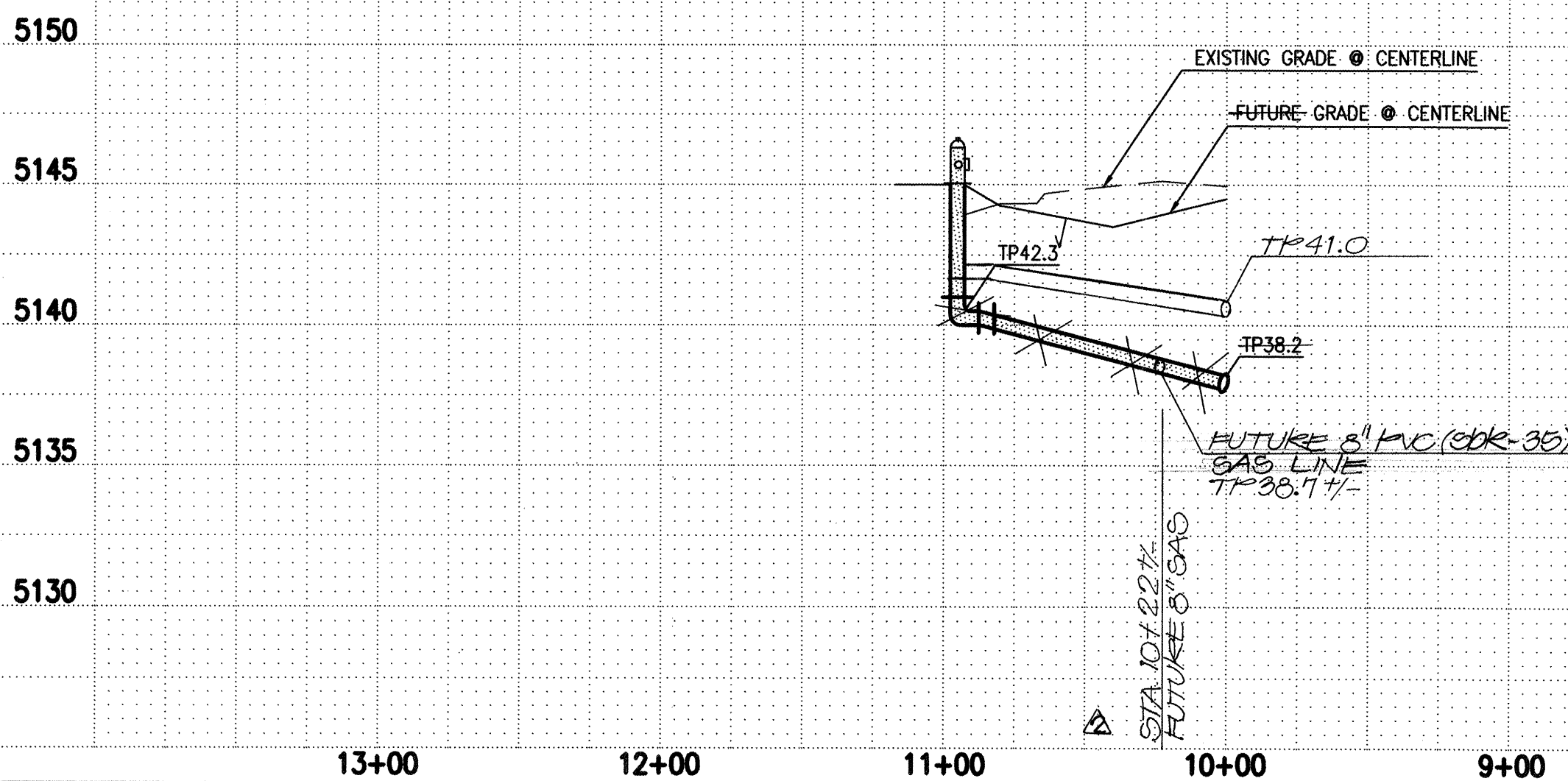
WATERLINE 'C'

SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



WATERLINE 'D'

SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: WESTSIDE SOUTH MIDDLE SCHOOL INFRASTRUCTURE
WATERLINE 'C' PLAN AND PROFILE-STA10+00.00 TO STA10+92.50
WATERLINE 'D' PLAN AND PROFILE STA9+76.10 TO STA11+83.50

Design Review Committee
APPROVE
FEB 26 1999
**DESIGN
REVIEW COMMITTEE**

City Engineer Approval

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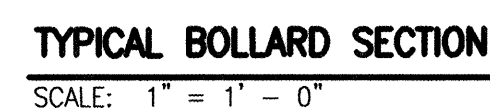
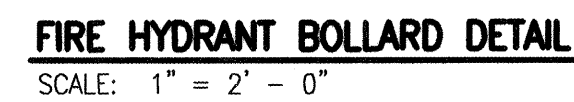
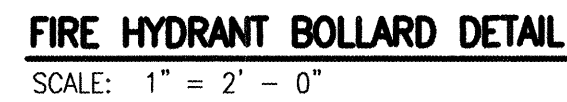
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:	WESTSIDE SOUTH MIDDLE SCHOOL INFRASTRUCTURE IMPROVMENTS WATERLINE SECTIONS AND DETAILS
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Last Design Update

Mo./Day/Yr.	Mo./Day/Yr.

City Project No.

Zone Map No.	
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Sheet _____ Of _____

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Sheet 15 of 17

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REMARKS:

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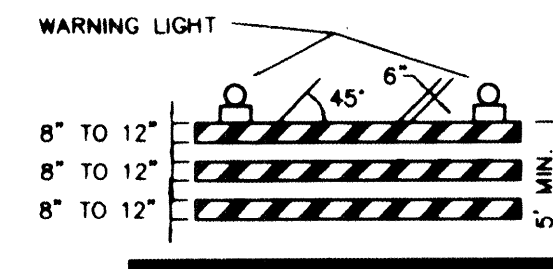
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CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

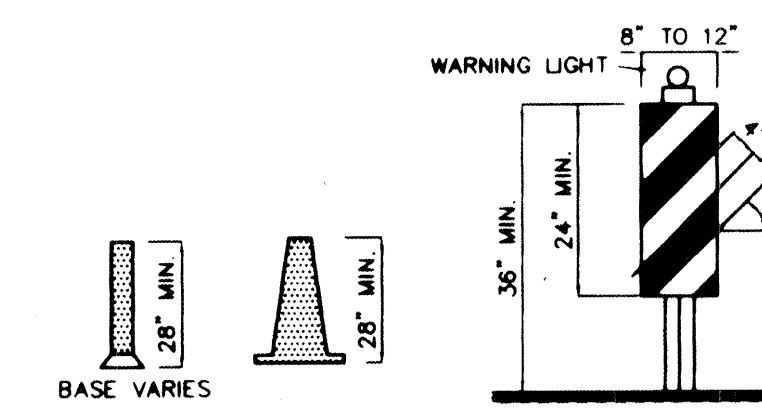
1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT 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. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.
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. 48 HOURS PRIOR TO OCCUPANCY 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.

26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.
27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.



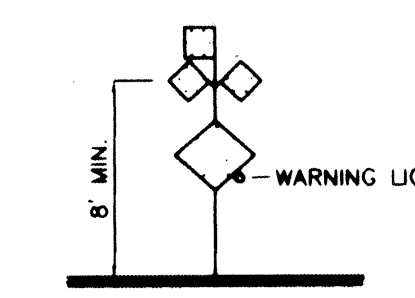
TYPE II BARRICADE



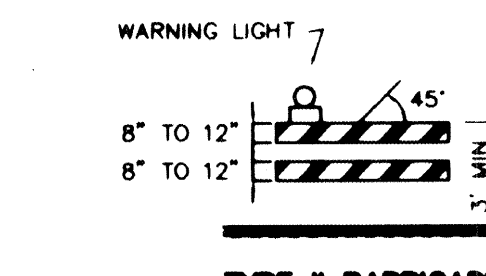
VERTICAL PANEL



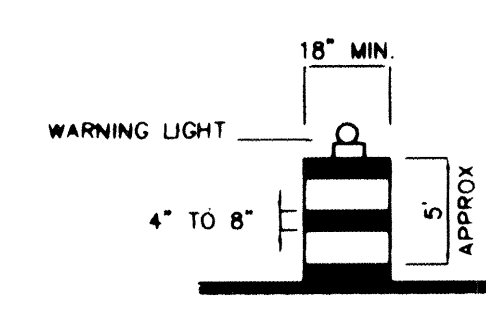
CONES



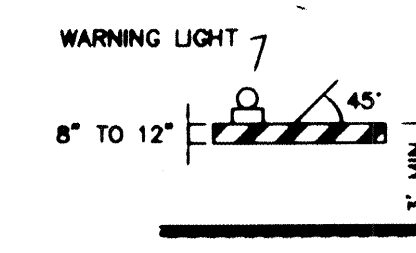
HIGH LEVEL WARNING DEVICE



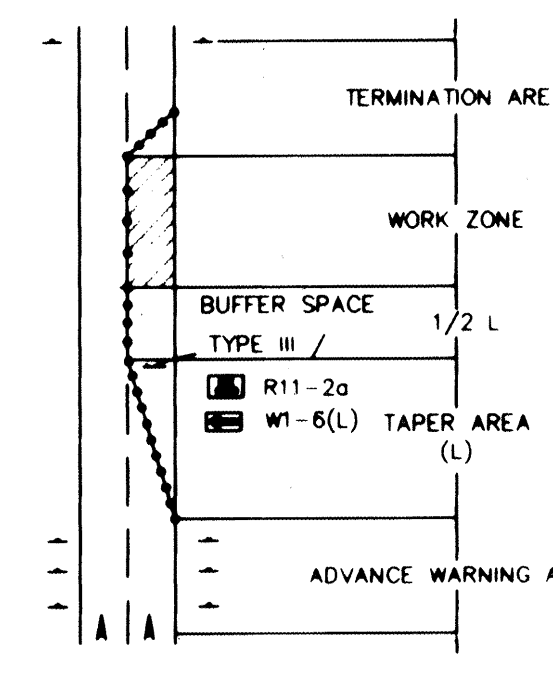
TYPE II BARRICADE COLLAPSIBLE



BARREL



TYPE I BARRICADE COLLAPSIBLE



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 (L) (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	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

SPEED LIMIT (MPH)	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

40 MPH OR LESS $L = W \times S$

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

SIGN FACE DETAILS

RECORD DRAWING

