

2 3 4 5 6 7 8 9 10 11 12 13 14 15
26-17577.811-2008

SCANNED BY
PLANNING

CONSTRUCTION PLANS FOR LA CUEVA ARROYO

CHANNEL IMPROVEMENTS

CITY OF ALBUQUERQUE AND AMAFCA
NEW MEXICO
FEBRUARY 2005

R
G
E

INDEX TO DRAWINGS

1. TITLE SHEET
2. MASTER CHANNEL PLAN
3. CHANNEL IMPROVEMENTS #1
4. CHANNEL IMPROVEMENTS #2
5. 55A OAKLAND AVENUE PAVING IMPROVEMENTS
6. ALAMEDA AVENUE PAVING IMPROVEMENTS
7. 7A OAKLAND AVENUE STORM IMPROVEMENTS
8. 8K TRAINING BERM DETAILS
9. DETAIL SHEET
10. DETAIL SHEET
11. 11A/11B CHANNEL SECTIONS

CERTIFICATE OF SUBSTANTIAL COMPLIANCE

I, J. GRAEME MEANS, NMPE 13676, OF THE FIRM HIGH MESA CONSULTING GROUP, HEREBY CERTIFY THAT THE INFRASTRUCTURE CONSTRUCTED AS PART OF THIS PROJECT HAS BEEN INSPECTED BY ME OR PERSONNEL UNDER MY DIRECT SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE AND BELIEF, HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND THE ORIGINAL DESIGN INTENT OF THE CITY ENGINEER APPROVED PLANS. THE RECORD SURVEY INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT WAS PROVIDED BY WILL PLOTTNER, NMPS 14271, OF THE FIRM CARTESIAN SURVEYS. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE NUMEROUS TIMES DURING AND AFTER CONSTRUCTION AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THESE RECORD DRAWINGS ARE NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE DESIGN INTENT OF THE PROJECT. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR ACCEPTANCE OF THE PROJECT BY THE CITY ENGINEER.

J. Graeme Means 8/09/2007
J. GRAEME MEANS, NMPE 13676 DATE



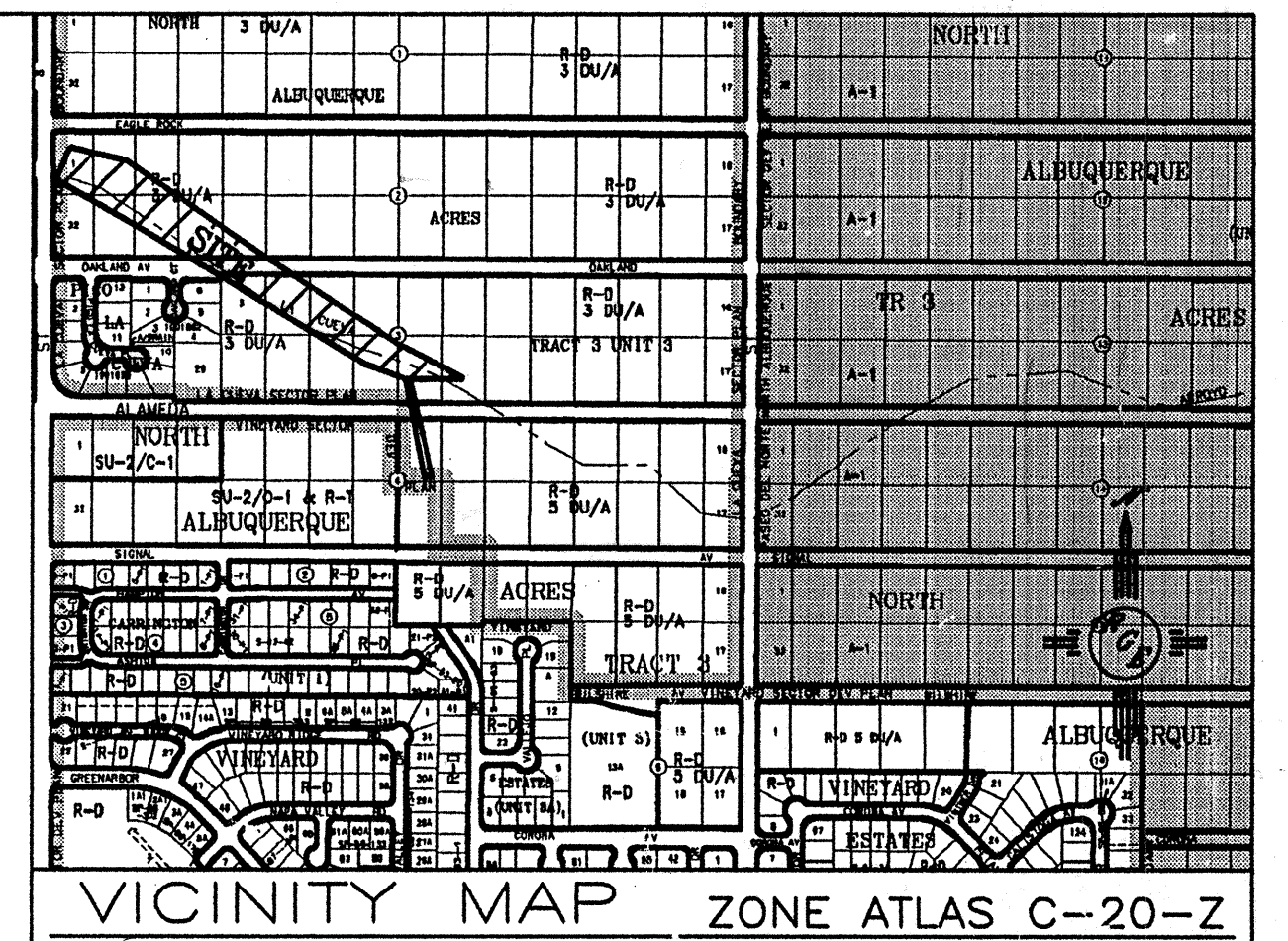
RECORD DRAWING

REFERENCE:

- LA CUEVA/CAMINO ARROYOS DMP, RTE, 1996
- COA NAA DUP, RTE, 1998
- LA CUEVA ARROYO CLOMR
Resource Technologies Inc DATE
- LA CUEVA ARROYO DESIGN ANALYSIS Report
Resource Technologies Inc DATE

APPROVED FOR CONSTRUCTION
WITHIN AMAFCA ROW
John P Kelly 3-20-06
JOHN KELLY, P.E.
EXECUTIVE ENGINEER DATE

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY ENGINEER
Anthony Lopez
DATE 02/21/08



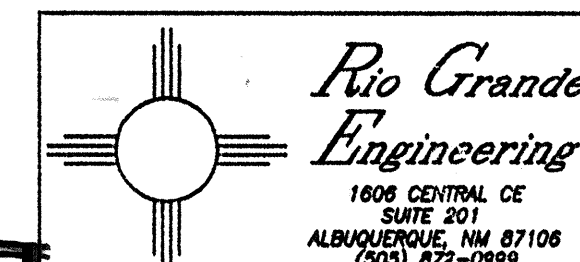
VICINITY MAP ZONE ATLAS C-20-Z

NOTICE TO CONTRACTORS

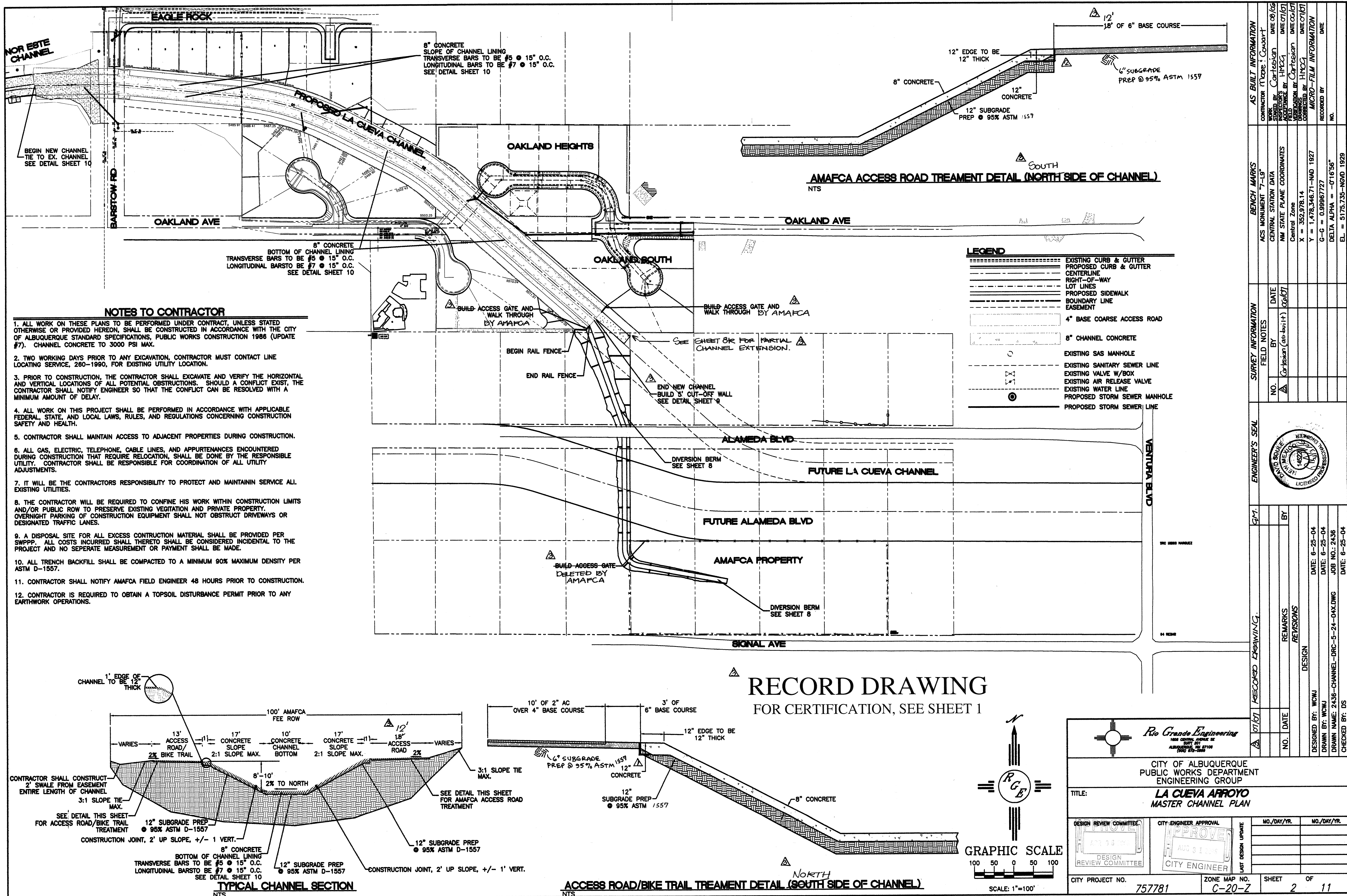
1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED, OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION (UPDATE #7).
2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
3. ANY WORK AFFECTING AN ADJACENT ROADWAY REQUIRES 24-HOUR CONSTRUCTION.
4. 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 IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. SEVEN (7) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATIONS DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (324-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO STANDARD SPECIFICATIONS.
6. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKING BY THE CONTRACTOR TO LOCATION OF EXISTING OR AS INDICATED BY THIS PLAN SET.
7. 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 CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS 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 GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS. ANY PERMANENT SURVEY MONUMENT LOCATED WITHIN 50' OF THIS PROJECT THAT IS NOT SHOWN ON THE PLAN AND IS DESTROYED DURING CONSTRUCTION WILL BE REPLACED AT THE DESIGNER'S EXPENSE.
8. FOR STORM DRAIN CONSTRUCTION, RCP PIPE JOINTS SHALL NOT BE GROUDED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUDED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.
9. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH A 29 CFR 1926.650 END PART F.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

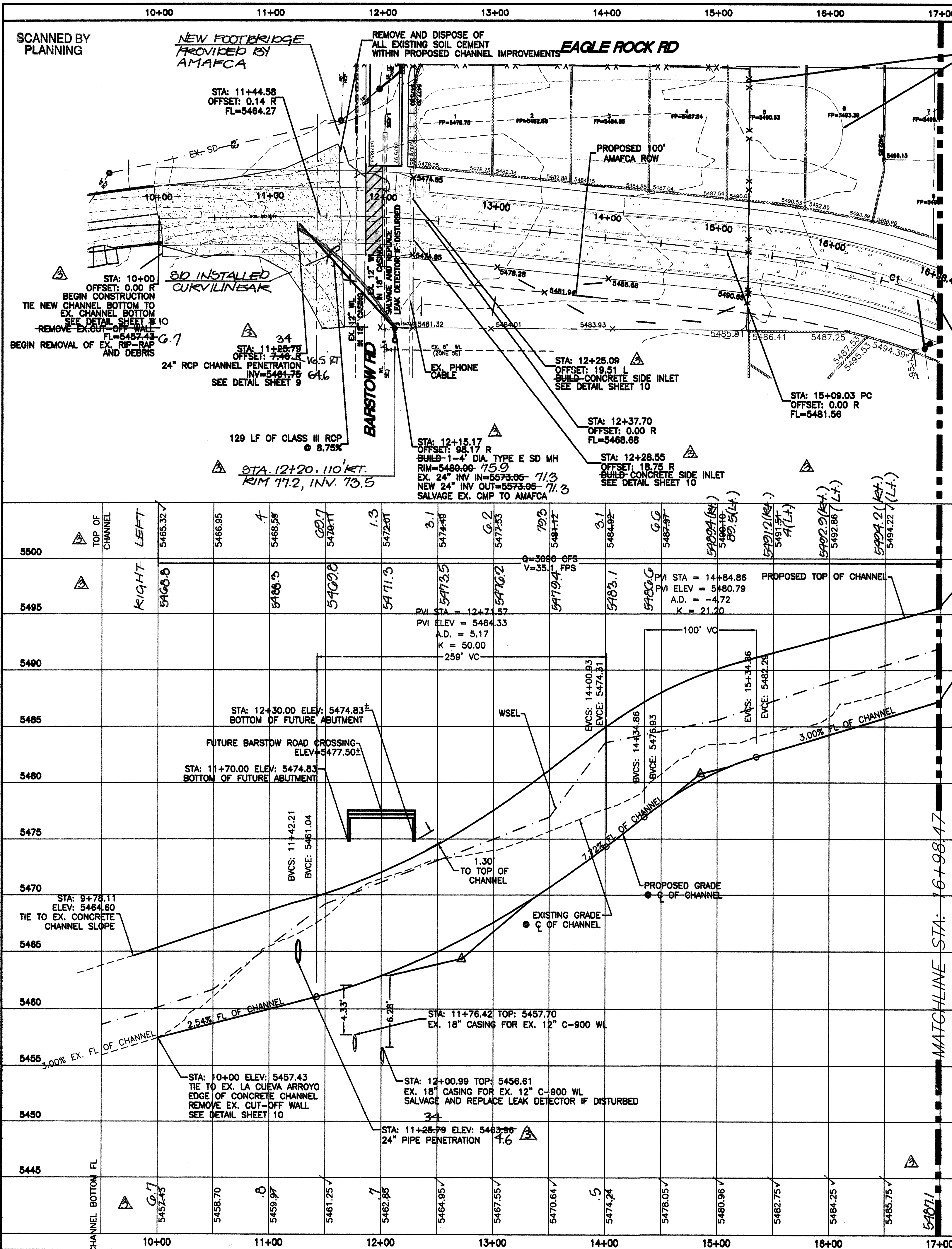
- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☒ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☒ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☐ IF CURB IS DEPRESSIONED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.



REV	SHEETS	CITY ENGINEER	DATE	USER DEPT.	DATE	USER DEPT.	DATE
1	11						
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE	
DRC Chairman		[Signature]		[Signature]		7/1/06	
Transportation		[Signature]		[Signature]		7/1/06	
Water/Wastewater		[Signature]		[Signature]		7/1/06	
Hydrology		[Signature]		[Signature]		7/1/06	
AMAFCA		[Signature]		[Signature]		7/1/06	
CITY PROJECT NO.				SHEET			
757781				1 OF 11			



LAST DESIGN UPDATE		NO. 1-2		SHEET 2		OF 11	
NO. / DAY / YR.		NO. / DAY / YR.		NO. / DAY / YR.		NO. / DAY / YR.	
DATE		DATE		DATE		DATE	
TIME		TIME		TIME		TIME	
BY		BY		BY		BY	
REMARKS		REMARKS		REMARKS		REMARKS	
REVISIONS		REVISIONS		REVISIONS		REVISIONS	
DESIGN		DESIGN		DESIGN		DESIGN	
DRAWN BY: WCMU		DATE: 6-25-04		DRAWN BY: WCMU		DATE: 6-25-04	
CHECKED BY: DS		JOB NO.: 2436		DRAWN NAME: 2436-CHANNEL-DR-5-24-OAX.DWG		JOB NO.: 2436	
DATE: 6-25-04		DATE: 6-25-04		DATE: 6-25-04		DATE: 6-25-04	
EL = 5175.735-NVD		EL = 5175.735-NVD		EL = 5175.735-NVD		EL = 5175.735-NVD	
DELTA ALPHA = -016'56"		DELTA ALPHA = -016'56"		DELTA ALPHA = -016'56"		DELTA ALPHA = -016'56"	
G-G = 0.99967727		G-G = 0.99967727		G-G = 0.99967727		G-G = 0.99967727	
X = 352.978.14		X = 352.978.14		X = 352.978.14		X = 352.978.14	
Y = 1,478,346.71-NAD 1927		Y = 1,478,346.71-NAD 1927		Y = 1,478,346.71-NAD 1927		Y = 1,478,346.71-NAD 1927	
MICRO-FILM INFORMATION		MICRO-FILM INFORMATION		MICRO-FILM INFORMATION		MICRO-FILM INFORMATION	
CORRECTED BY: HMCQ		CORRECTED BY: HMCQ		CORRECTED BY: HMCQ		CORRECTED BY: HMCQ	
DATE: 07/01		DATE: 07/01		DATE: 07/01		DATE: 07/01	
FIELD NUMBER		FIELD NUMBER		FIELD NUMBER		FIELD NUMBER	
INSPECTOR'S NAME		INSPECTOR'S NAME		INSPECTOR'S NAME		INSPECTOR'S NAME	
DATE: 08/06		DATE: 08/06		DATE: 08/06		DATE: 08/06	
DRAWN BY: Cartesion		DATE: 08/06		DRAWN BY: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	
CONTRACTOR: Cartesion		DATE: 08/06		CONTRACTOR: Cartesion		DATE: 08/06	

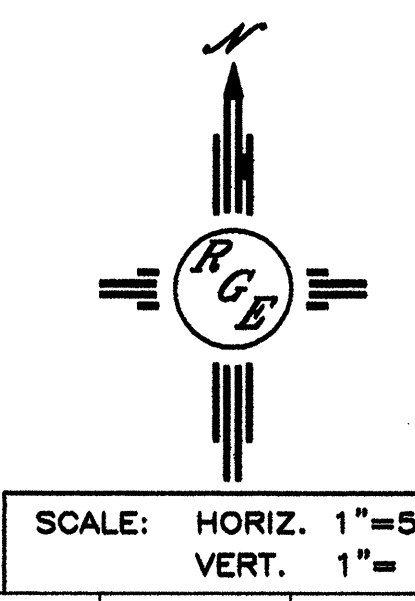


CURVE TABLE (SEE SHEET 4 FOR C1 CONTINUATION)					
CURVE	LENGTH	RADIUS	DELTA ANGLE	CHORD DIRECTION	CHORD
C1	284.79	750.00	21°45'23"	N73°19'27"W	283.08

RECORD DRAWING

FOR CERTIFICATION, SEE SHEET 1

LA CUEVA ARROYO #1
STA: 10+00.00 TO 16+98.47
*ALL STATIONING BASED UPON PROPOSED CENTERLINE



AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL				REVISIONS			
CONTRACTOR	MOORE & CO.	DATE	01/01/01	ACS MONUMENT	7-19"	DATE	01/01/01	NO.	1	BY	Cartesian	DATE	01/01/01		DESIGNED BY: WCMJ DATE: 9-30-04 DRAWN BY: WCMJ DATE: 9-30-04 CHECKED BY: DS DATE: 9-30-04	CITY PROJECT NO. 757781	ZONE MAP NO. C-20-Z	SHEET 3	OF 11
WORK	CONSTRUCTION	DATE	01/01/01	CENTRAL STATION DATA		DATE	01/01/01	NO.	1	BY	Cartesian	DATE	01/01/01						
FIELD	CONSTRUCTION	DATE	01/01/01	NM STATE PLANE COORDINATES		DATE	01/01/01	NO.	1	BY	Cartesian	DATE	01/01/01						
REVISIONS				Central Zone		DATE	01/01/01	NO.	1	BY	Cartesian	DATE	01/01/01						
MICRO-FILM INFORMATION				MICRO-FILM INFORMATION				MICRO-FILM INFORMATION				MICRO-FILM INFORMATION				MICRO-FILM INFORMATION			
RECORDED BY		DATE		RECORDED BY		DATE		RECORDED BY		DATE		RECORDED BY		DATE		RECORDED BY		DATE	
NO.				NO.				NO.				NO.		DATE		NO.		DATE	

Rio Grande Engineering
1606 CENTRAL AVENUE SE
SUITE 201
ALBUQUERQUE, NM 87108
(505) 272-0888

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

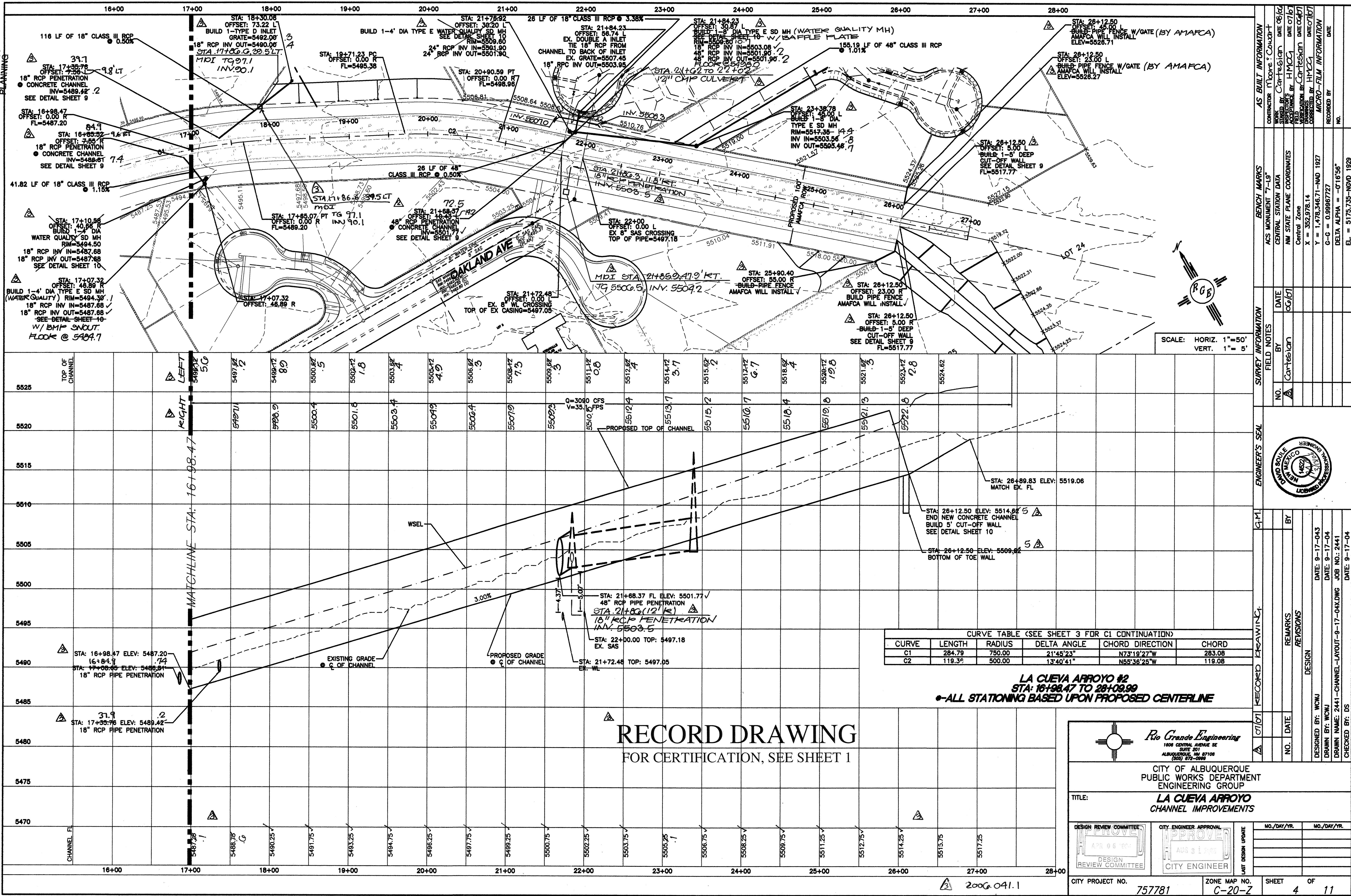
LA CUEVA ARROYO
CHANNEL IMPROVEMENTS

DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

CITY PROJECT NO. 757781
ZONE MAP NO. C-20-Z
SHEET 3 OF 11

SCANNED BY
PLANNING



RECORD DRAWING
FOR CERTIFICATION, SEE SHEET 1

CURVE TABLE (SEE SHEET 3 FOR C1 CONTINUATION)				
CURVE	LENGTH	RADIUS	DELTA ANGLE	CHORD DIRECTION
C1	284.79	750.00	21°45'23"	N73°18'27"W
C2	119.35	500.00	13°40'41"	N55°36'25"W

LA CUEVA ARROYO #2
STA: 16+98.47 TO 28+09.99
ALL STATIONING BASED UPON PROPOSED CENTERLINE

Rio Grande Engineering
1800 CENTRAL AVENUE SE
SUITE 201
ALBUQUERQUE, NM 87106
(505) 872-0000

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

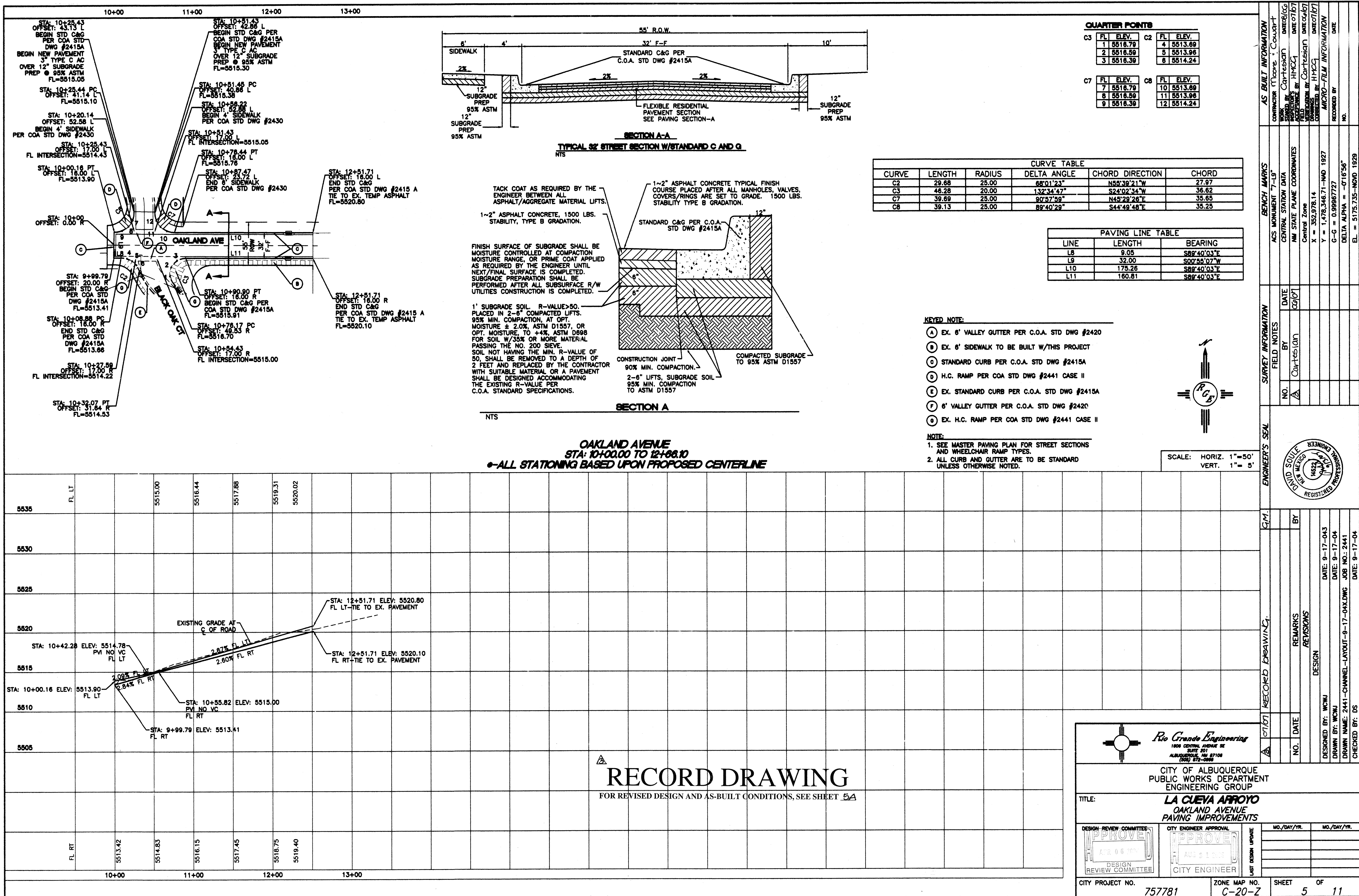
TITLE: **LA CUEVA ARROYO
CHANNEL IMPROVEMENTS**

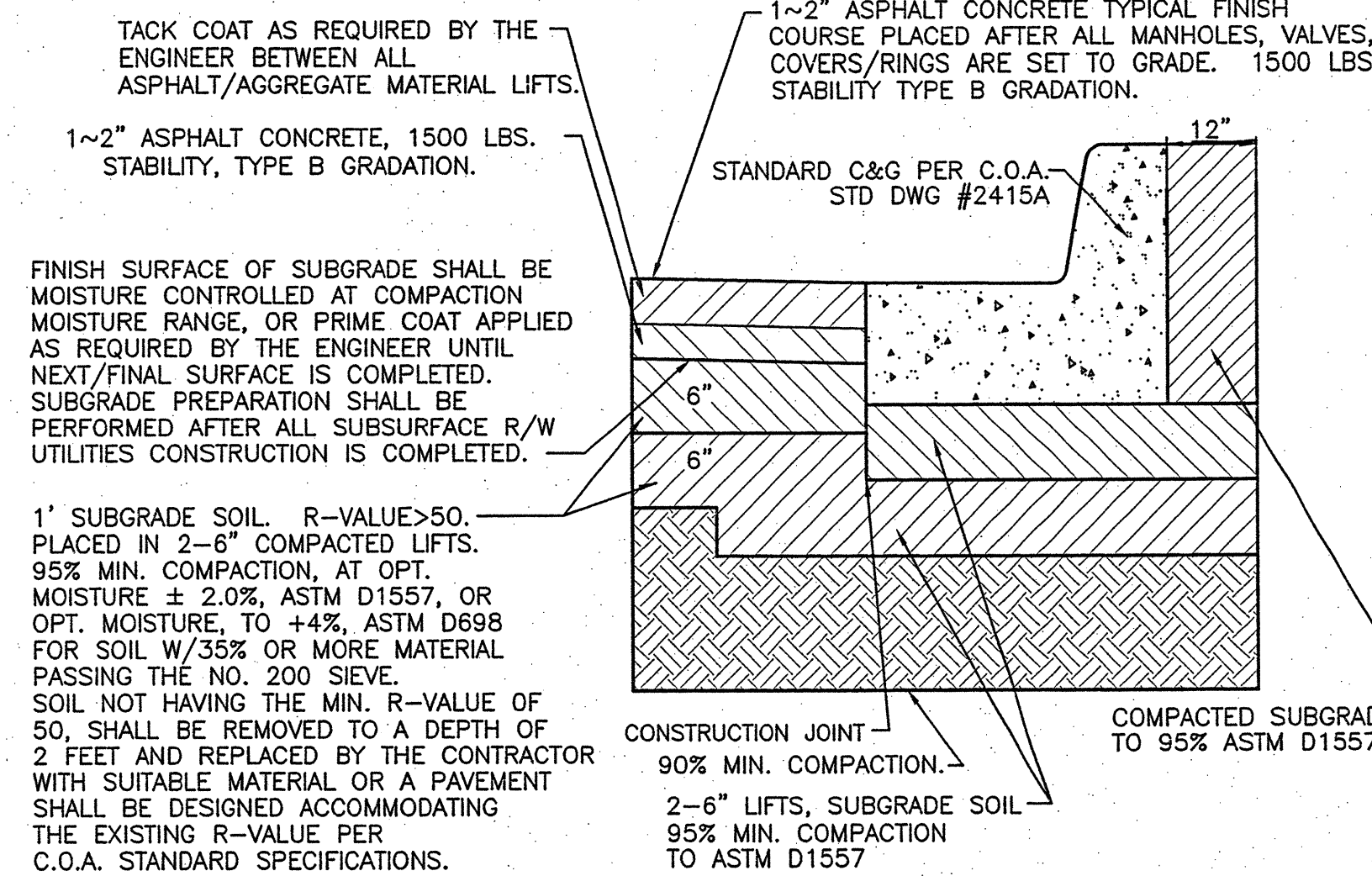
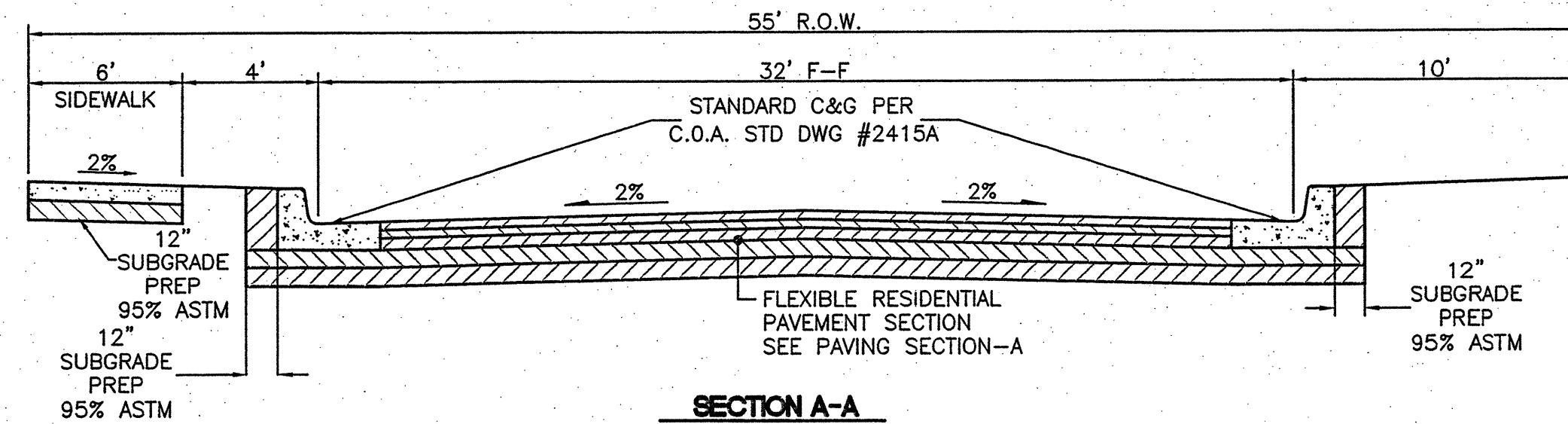
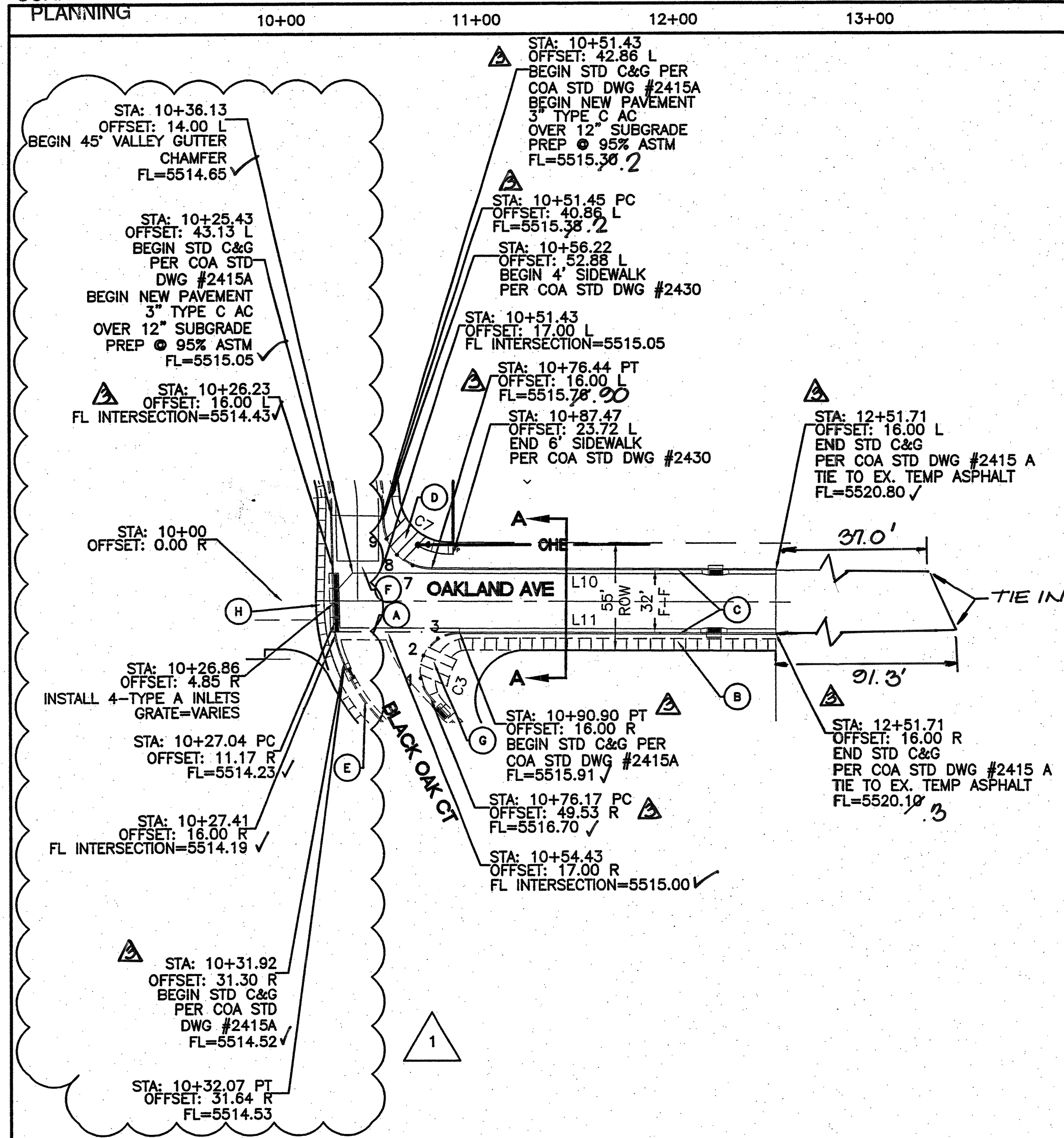
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	NO./DAY/YR.	NO./DAY/YR.
APPROVE APR 06 2006 DESIGN REVIEW COMMITTEE	APPROVE AUG 01 2006 CITY ENGINEER		

CITY PROJECT NO. **757781**

ZONE MAP NO. **C-20-Z**

SHEET **4** OF **11**





OAKLAND AVENUE
STA: 10+00.00 TO 12+66.10
*ALL STATIONING BASED UPON PROPOSED CENTERLINE

CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA ANGLE	CHORD DIRECTION	CHORD
C3	46.28	20.00	132°34'47"	S24°02'34"W	36.82
C7	39.69	25.00	90°57'59"	N45°29'26"E	35.65
C8	39.12	25.00	89°40'03"E	S44°49'48"E	35.25

PAVING LINE TABLE		
LINE	LENGTH	BEARING
L10	175.26	S89°40'03"E
L11	160.81	S89°40'03"E

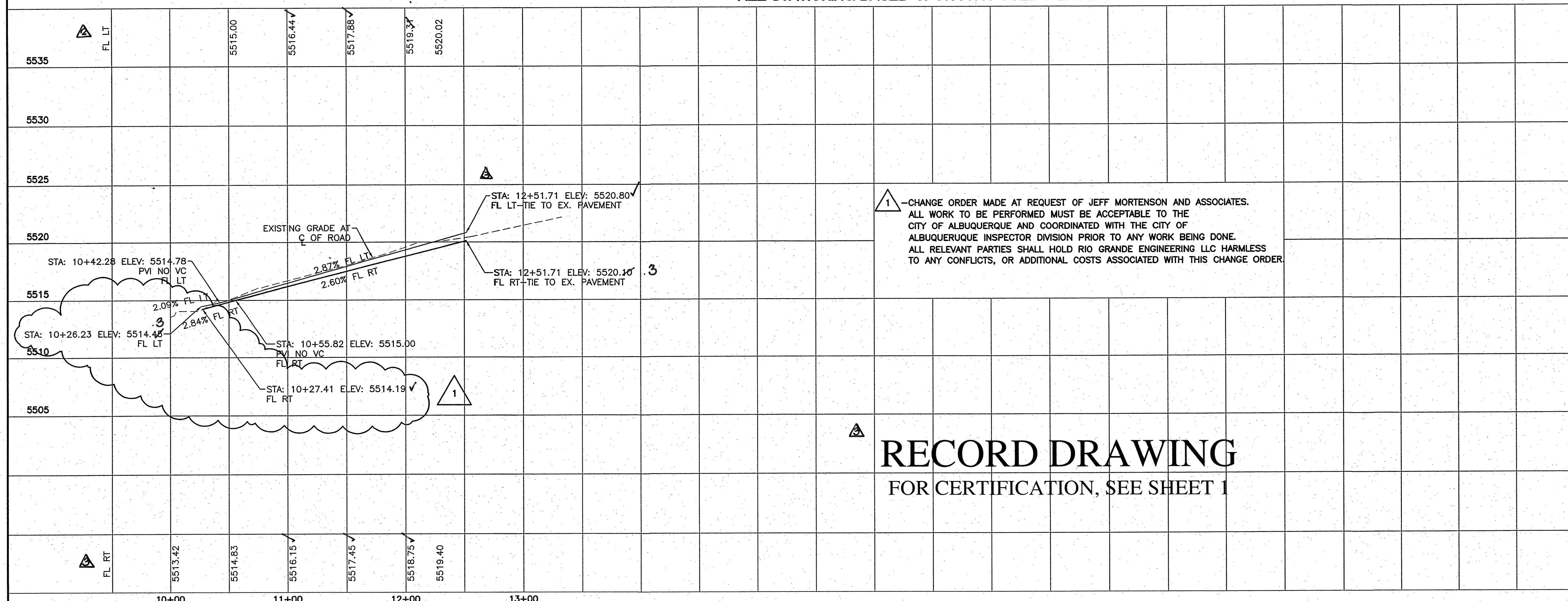
KEYED NOTE:

- (A) EX. 6" VALLEY GUTTER PER C.O.A. STD DWG #2420
- (B) EX. 6" SIDEWALK TO BE BUILT W/THIS PROJECT
- (C) STANDARD CURB PER C.O.A. STD DWG #2415A
- (D) H.C. RAMP PER COA STD DWG #2441 CASE II
- (E) EX. STANDARD CURB PER C.O.A. STD DWG #2415A
- (F) 6" VALLEY GUTTER PER C.O.A. STD DWG #2420
- (G) EX. H.C. RAMP PER COA STD DWG #2441 CASE II
- (H) 4" SIDEWALK TO BE BUILT W/THIS PROJECT

NOTE:

- SEE MASTER PAVING PLAN FOR STREET SECTIONS AND WHEELCHAIR RAMP TYPES.
- ALL CURB AND GUTTER ARE TO BE STANDARD UNLESS OTHERWISE NOTED.

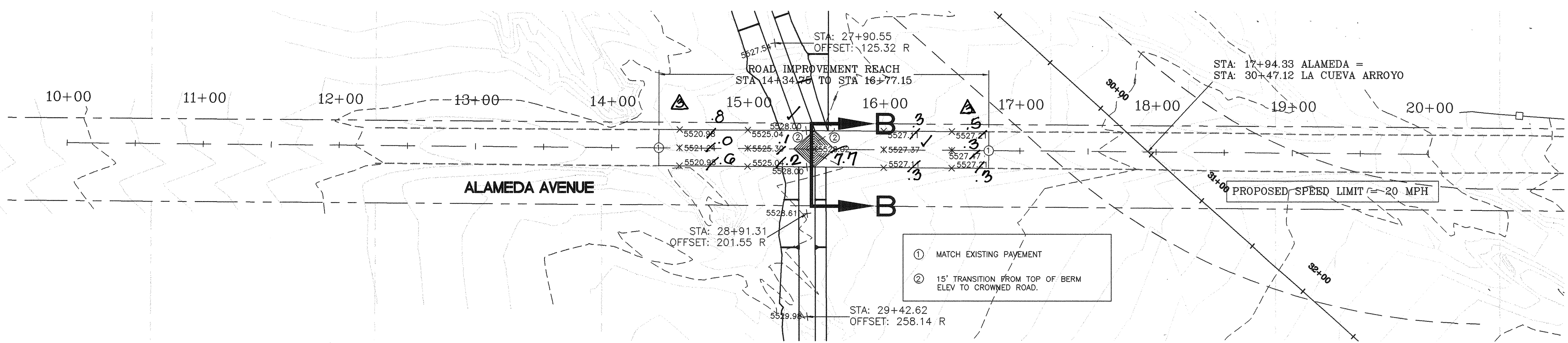
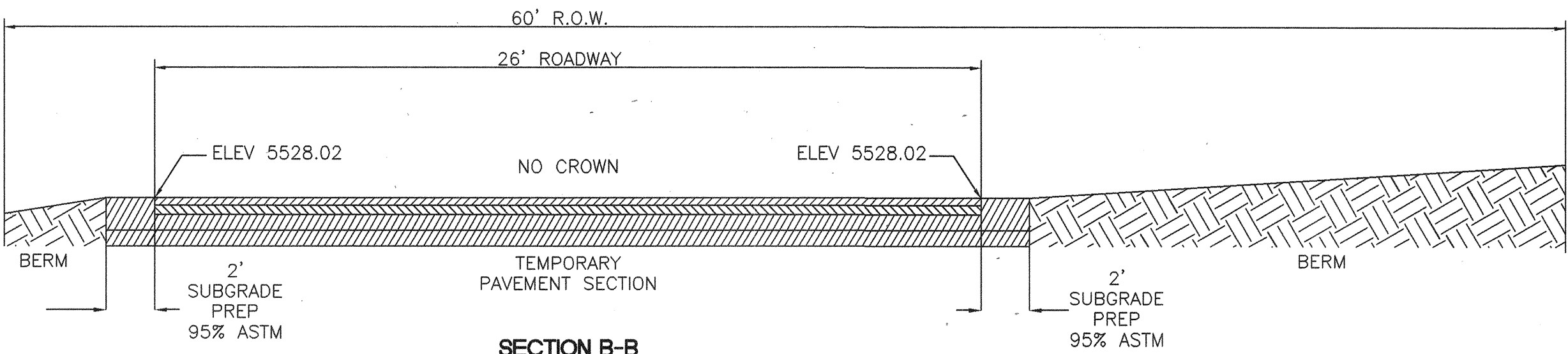
SCALE: HORIZ. 1"=50'
VERT. 1"= 5'



RECORD DRAWING
FOR CERTIFICATION, SEE SHEET 1

 Rio Grande Engineering 1806 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87108 (505) 872-0999		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: LA CUEVA ARROYO OAKLAND AVENUE PAVING IMPROVEMENTS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
LAST DESIGN UPDATE		SHEET 5A OF 11	CITY PROJECT NO. 757781 ZONE MAP NO. C-20-2

SCANNED BY
PLANNING

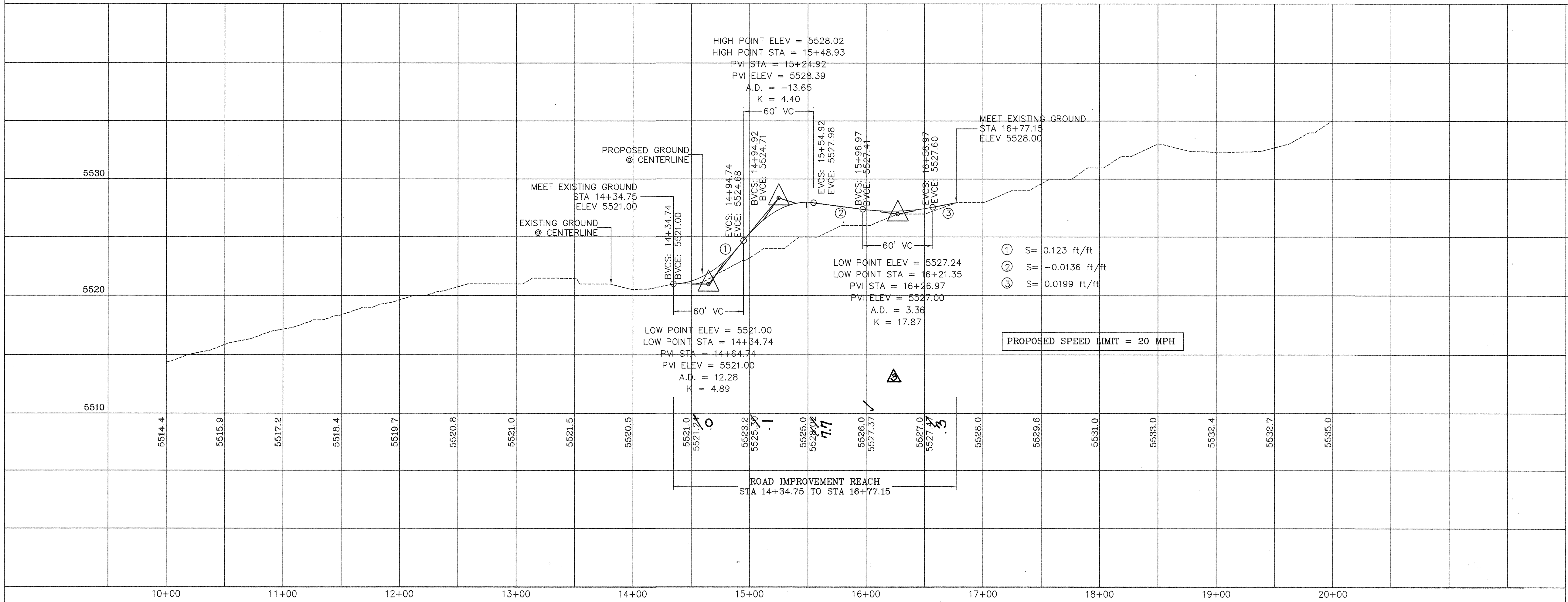
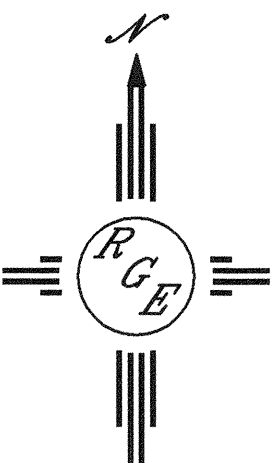


ALAMEDA AVENUE
STA: 10+00.00 TO 20+00.00
*ALL STATIONING BASED UPON EXISTING ROAD CENTERLINE

RECORD DRAWING

FOR CERTIFICATION, SEE SHEET 1

SCALE: HORIZ. 1"=50'
VERT. 1"= 5'

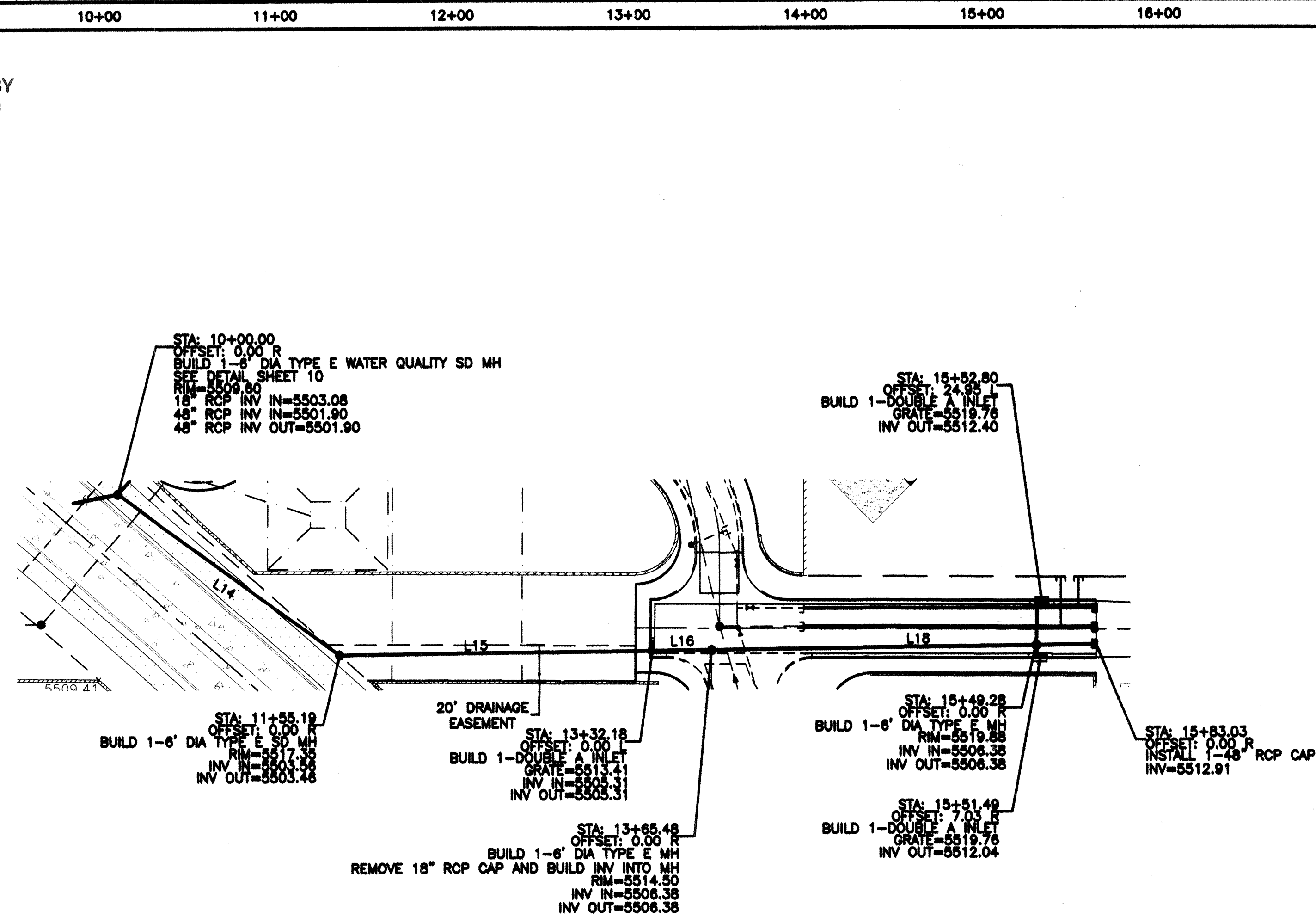


Resource Technology, Inc.
Rio Grande Engineering
1806 CENTRAL AVENUE SE
SUITE 201
ALBUQUERQUE, NM 87106
(505) 874-0999

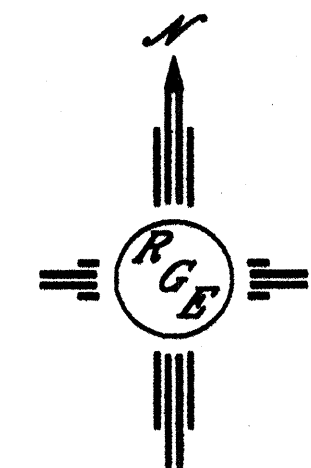
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: LA CUEVA ARROYO ALAMEDA AVENUE TEMPORARY PAVING IMPROVEMENTS	
DESIGN REVIEW COMMITTEE APR 06 2006 DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL AUG 31 2006 CITY ENGINEER
DESIGNED BY: WCM, EVO DRAWN BY: WCM, RW DRAWN NAME: 05060PMP1.DWG CHECKED BY: DS	NO. DATE REVISIONS DESIGN DATE: 9-17-04 DATE: 9-17-04 JOB NO.: 05060 DATE: 9-17-04
CITY PROJECT NO. 757781	ZONE MAP NO. C-20-Z
SHEET 6 OF 11	

2006.09.11

SCANNED BY
PLANNING



SD LINE TABLE		
LINE	LENGTH	BEARING
L14	155.19	N53°59'32\"W
L15	176.93	N89°19'49\"E
L16	33.36	N89°19'49\"E
L18	217.15	N89°19'49\"E

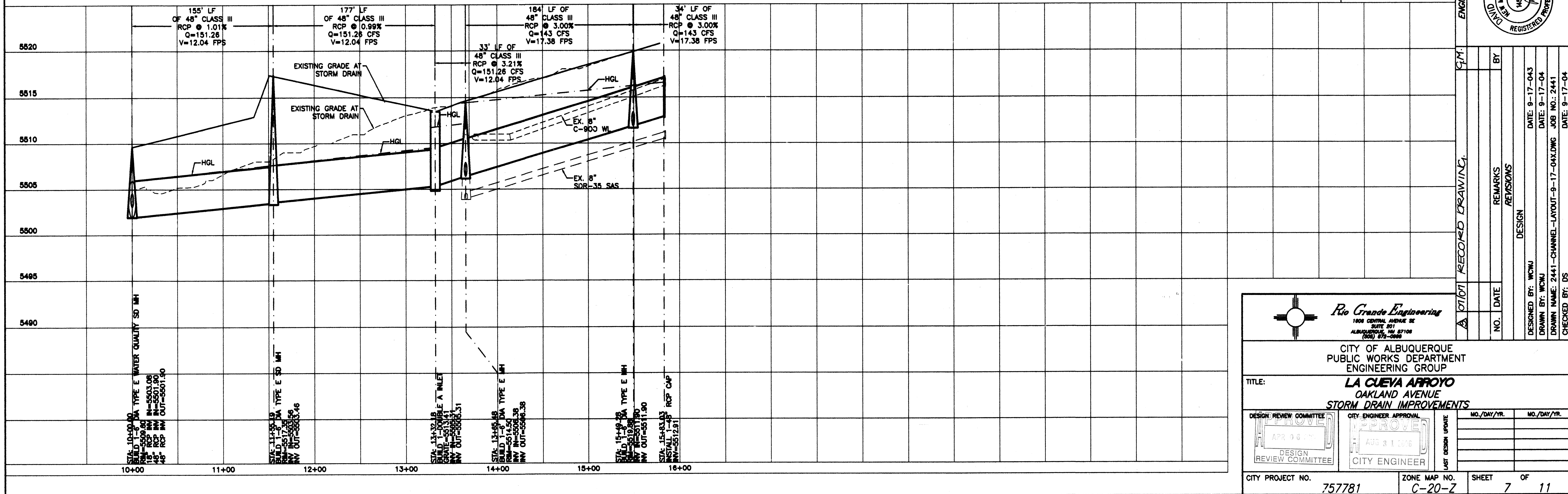


SCALE: HORIZ. 1\"=50'
VERT. 1\"= 5'

OAKLAND AVENUE
STA: 10+00.00 TO 15+78.67
•ALL STATIONING BASED UPON STORM DRAIN

RECORD DRAWING

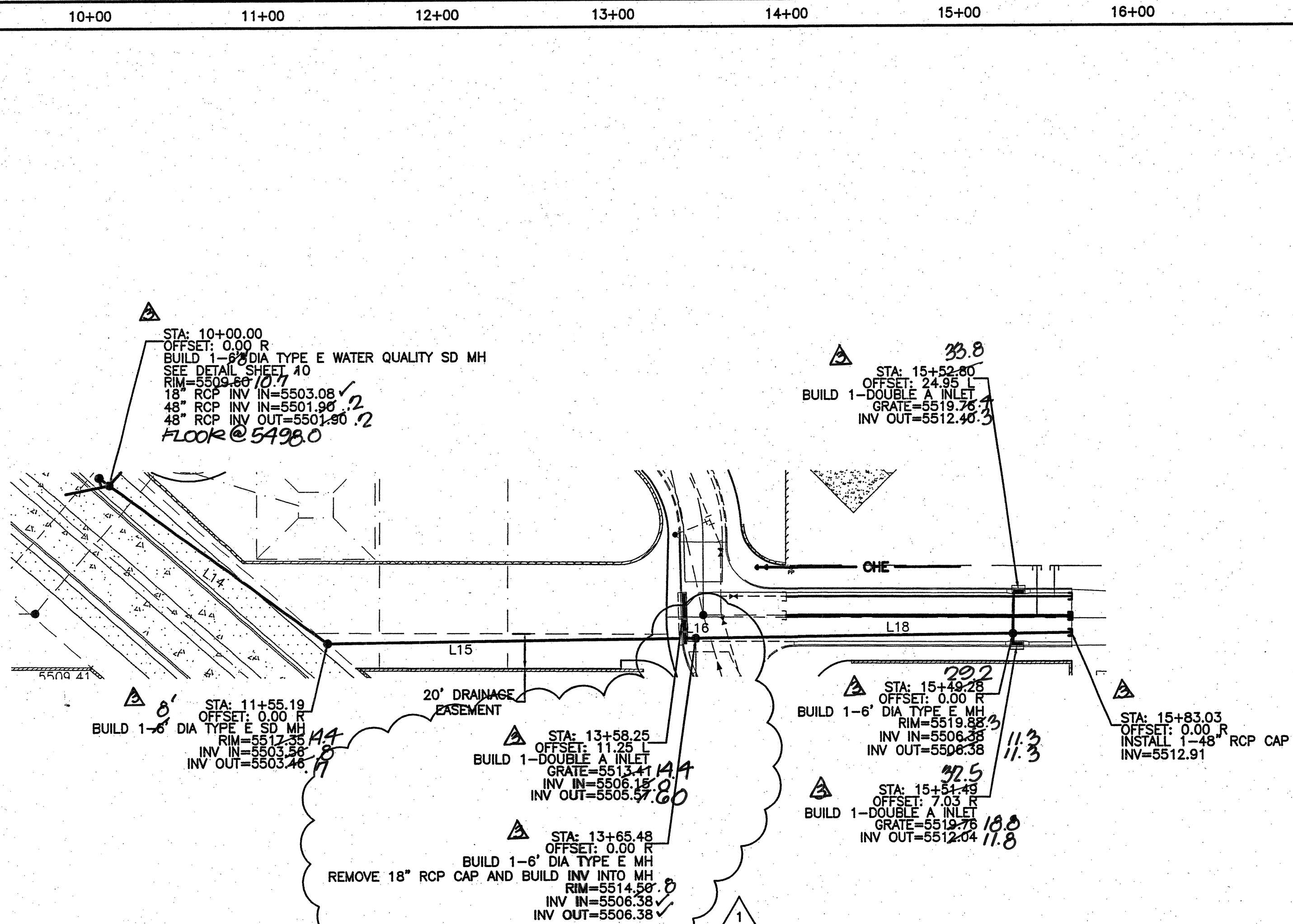
FOR REVISED DESIGN AND AS-BUILT CONDITIONS, SEE SHEET 7A.



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: LA CUEVA ARROYO OAKLAND AVENUE STORM DRAIN IMPROVEMENTS	
DESIGN REVIEW COMMITTEE 	CITY ENGINEER APPROVAL
CITY PROJECT NO. 757781	ZONE MAP NO. C-20-Z
SHEET 7 OF 11	

2006.04.1

SCANNED BY
PLANNING



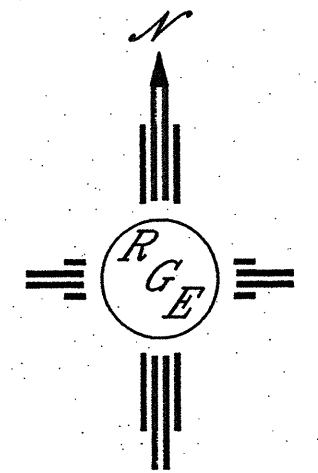
OAKLAND AVENUE
STA: 10+00.00 TO 15+78.67
*ALL STATIONING BASED UPON STORM DRAIN

RECORD DRAWING

FOR CERTIFICATION, SEE SHEET 1

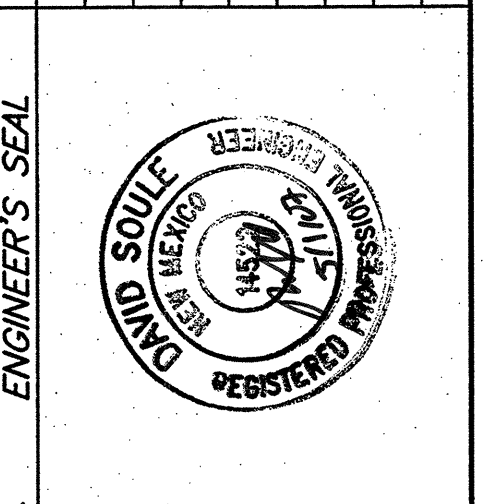
SCALE: HORIZ. 1"=50'
VERT. 1"= 5'

SD LINE TABLE		
LINE	LENGTH	BEARING
L14	155.19	N53°59'32"W
L15	200.96	N89°19'49"E
L16	4.58	N89°19'49"E
L18	217.15	N89°19'49"E



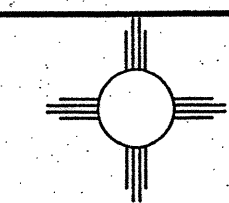
AS BUILT INFORMATION			
CONTRACTOR	More: Conant	DATE	06/06/10
WORK	STAKED BY	DATE	07/07/10
INSPECTOR'S	DATE	DATE	07/07/10
FIELD	DATE	DATE	07/07/10
CORRECTED BY	DATE	DATE	07/07/10
MICRO-FILM INFORMATION			
RECORDED BY	DATE	DATE	DATE
NO.			

BENCH MARKS		SURVEY INFORMATION	
ACS MONUMENT	"7-L9"	FIELD NOTES	DATE
CENTRAL STATION DATA		BY	07/07
NM STATE PLANE COORDINATES		NO.	07/07
Central Zone			
X = 352,978.14			
Y = 1,478,346.71			
G-G = 0.9996727			
DELTA ALPHA = -0°16'56"			
EL = 5175.735-NGVD 1929			



ENGINEER'S SEAL		RECORD DRAWING	
DATE	07/07	REMARKS	BY
NO.		REVISIONS	DATE
		DESIGN	
DESIGNED BY:	WCWJ	DATE:	9-17-04
DRAWN BY:	WCWJ	DATE:	9-17-04
DRAWN NAME:	2441-CHANNEL-LAYOUT-9-17-04.DWG	JOB NO.:	2441
CHECKED BY:	DS	DATE:	9-17-04

1 - CHANGE ORDER MADE AT REQUEST OF JEFF MORTENSON AND ASSOCIATES.
ALL WORK TO BE PERFORMED MUST BE ACCEPTABLE TO THE
CITY OF ALBUQUERQUE AND COORDINATED WITH THE CITY OF
ALBUQUERQUE INSPECTOR DIVISION PRIOR TO ANY WORK BEING DONE.
ALL RELEVANT PARTIES SHALL HOLD RIO GRANDE ENGINEERING LLC HARMLESS
TO ANY CONFLICTS, OR ADDITIONAL COSTS ASSOCIATED WITH THIS CHANGE ORDER.



Rio Grande Engineering
1606 CENTRAL AVENUE SE
SUITE 201
ALBUQUERQUE, NM 87106
(505) 872-0999

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

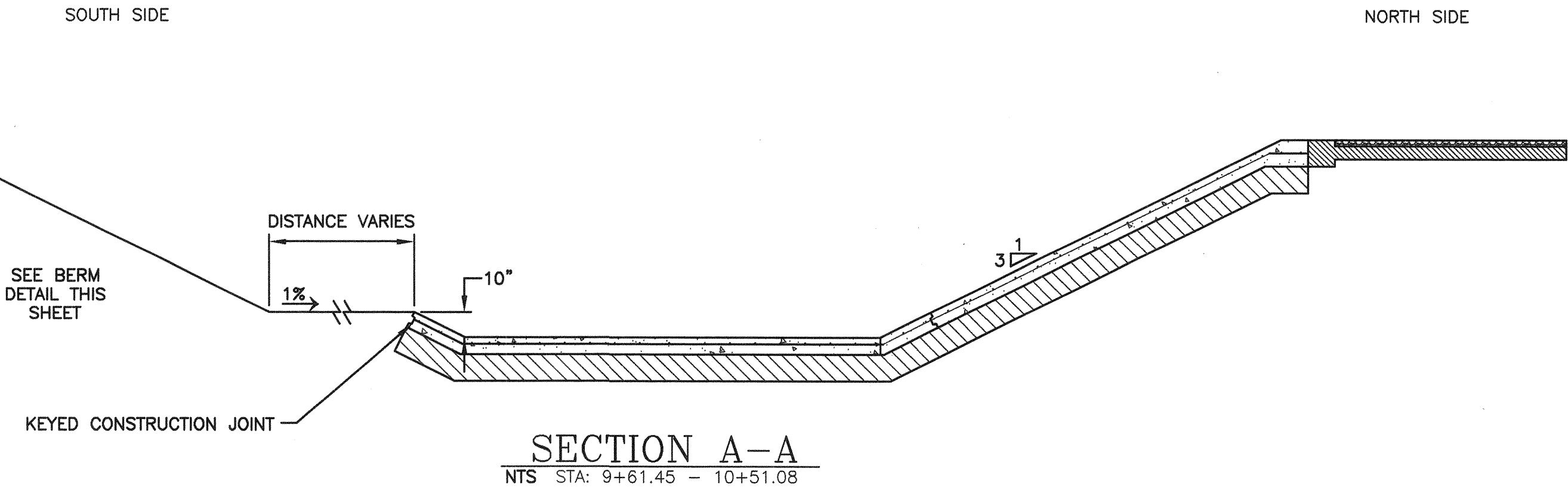
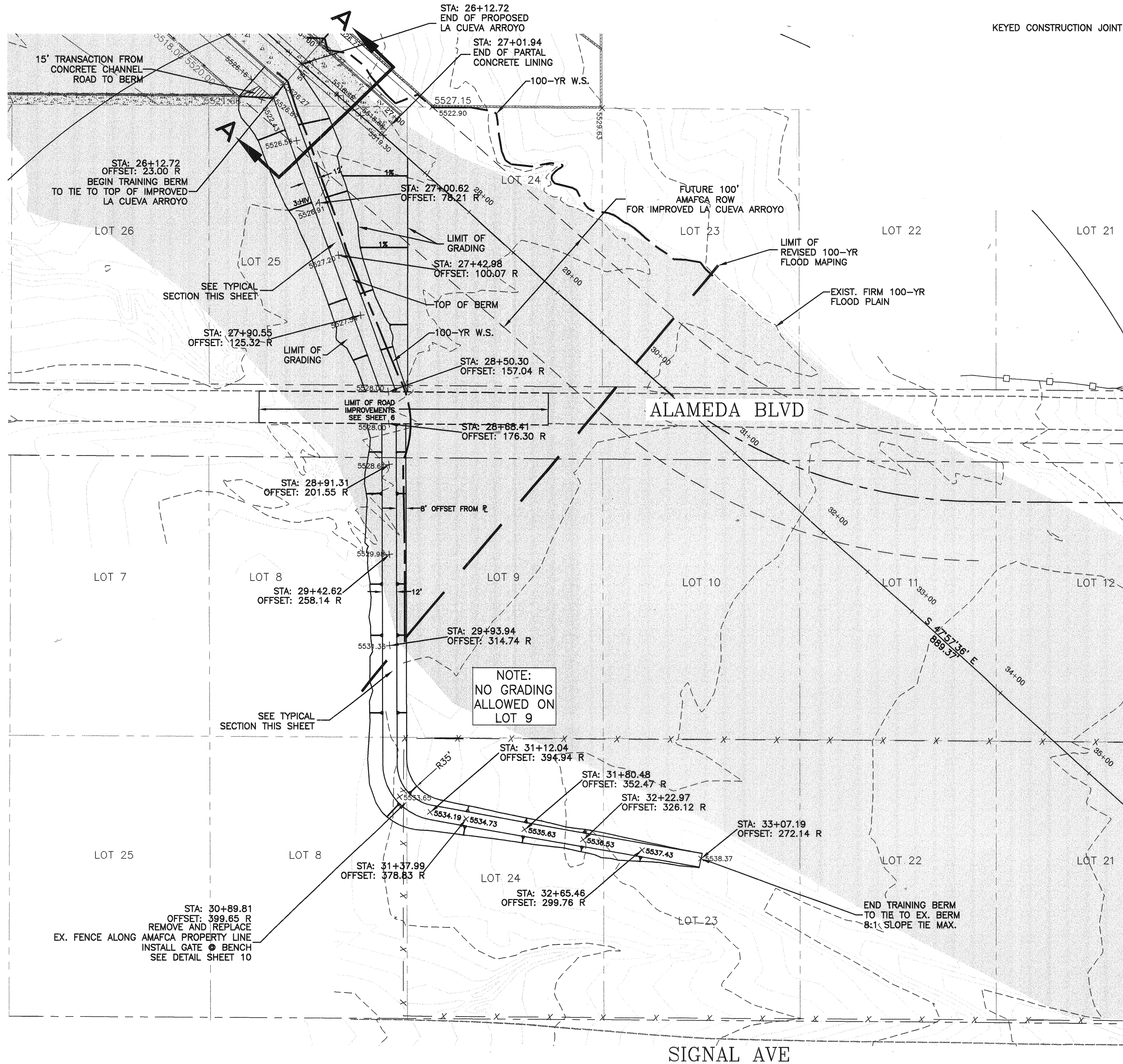
TITLE: **LA CUEVA ARROYO**
OAKLAND AVENUE
STORM DRAIN IMPROVEMENTS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

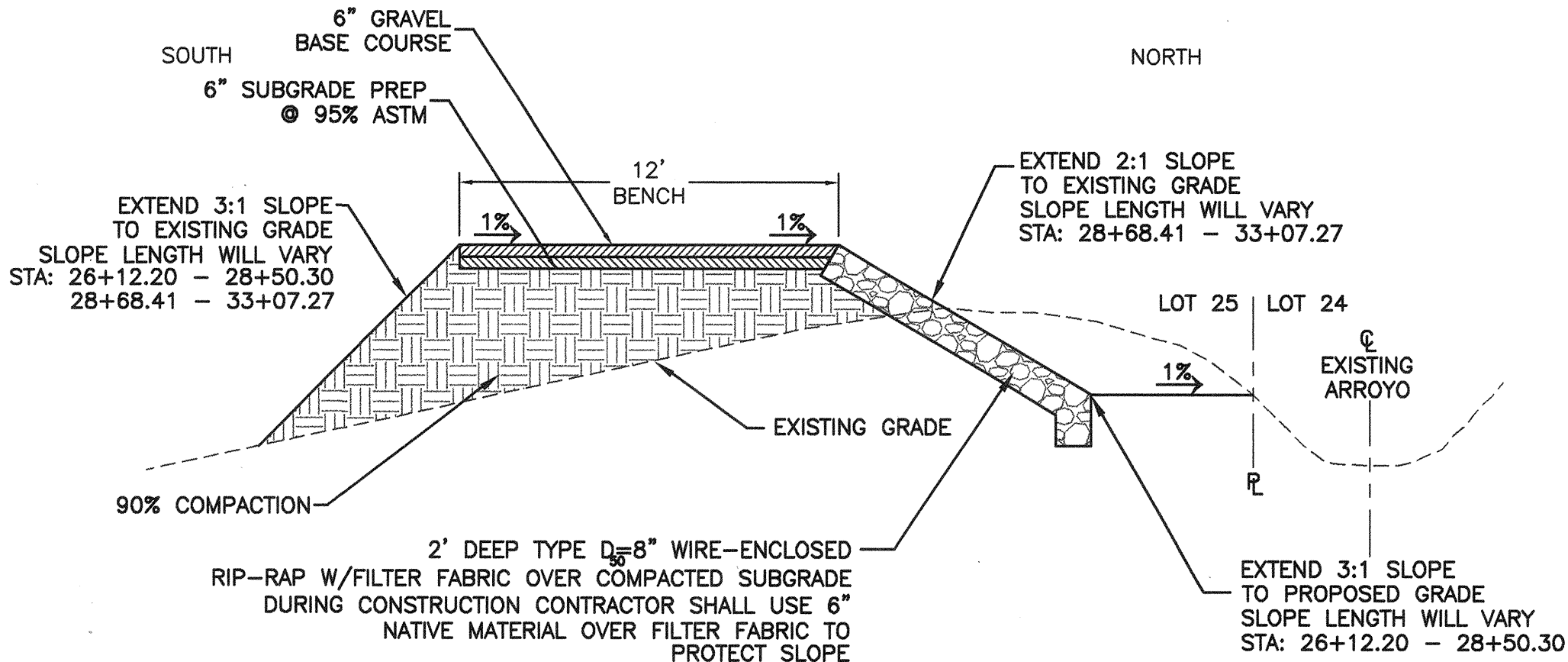
CITY PROJECT NO. 757781 ZONE MAP NO. C-20-Z SHEET 74 OF 11

2006.04.1

SCANNED BY
PLANNING



RECORD DRAWING
FOR REVISED DESIGN AND AS-BUILT CONDITIONS, SEE SHEET *8K*

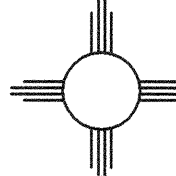
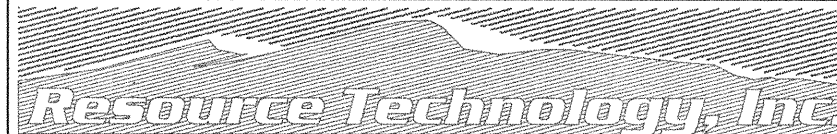


TYPICAL BERM SECTION



LEGEND

===== EXISTING CURB & GUTTER
 _____ PROPOSED CURB & GUTTER
 _____ BOUNDARY LINE
 ----- EASEMENT
 5501 EXISTING CONTOUR
 5500 EXISTING INDEX CONTOUR
 —————> FLOW ARROW
 1
 5048.25 EXISTING SPOT ELEVATION
 X 5048.25 PROPOSED SPOT ELEVATION
 ----- CENTERLINE
 _____ RIGHT-OF-WAY
 _____ 100-YR WATER SURFACE



Rio Grande Engineering
1806 CENTRAL AVENUE SE
SUITE 201
ALBUQUERQUE, NM 87106
(505) 872-0999

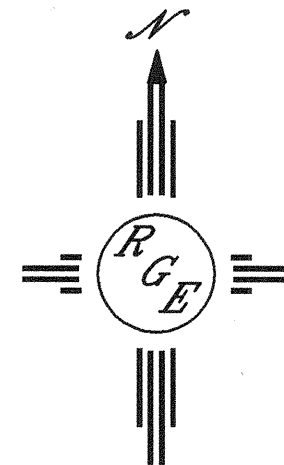
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: *LA CUEVA ARROYO*
BERM GRADING AND DETAIL

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LATEST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED APR 06 2006	APPROVED AUG 31 2006			
CITY ENGINEER				

CITY PROJECT NO.	757781	ZONE MAP NO.	C-20-Z	SHEET	8	OF	11
------------------	--------	--------------	--------	-------	---	----	----

2006.041.1

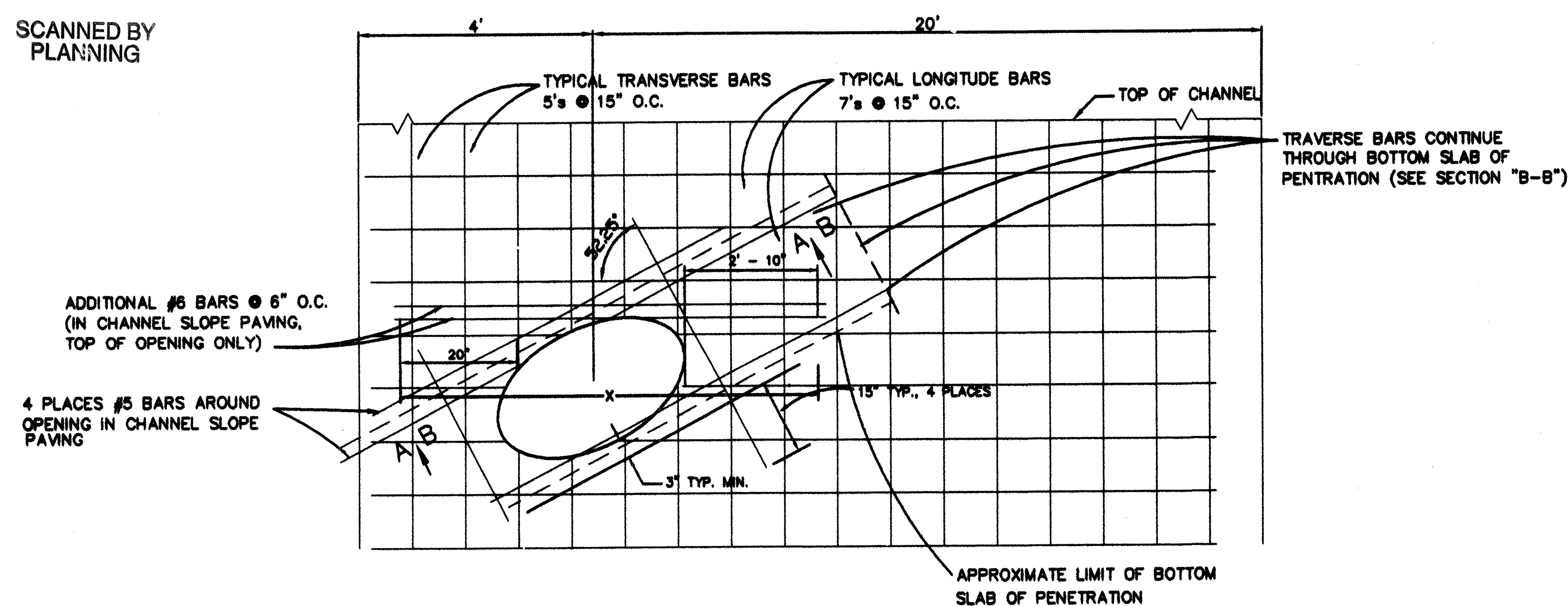


GRAPHIC SCALE



SCALE: 1"=50'

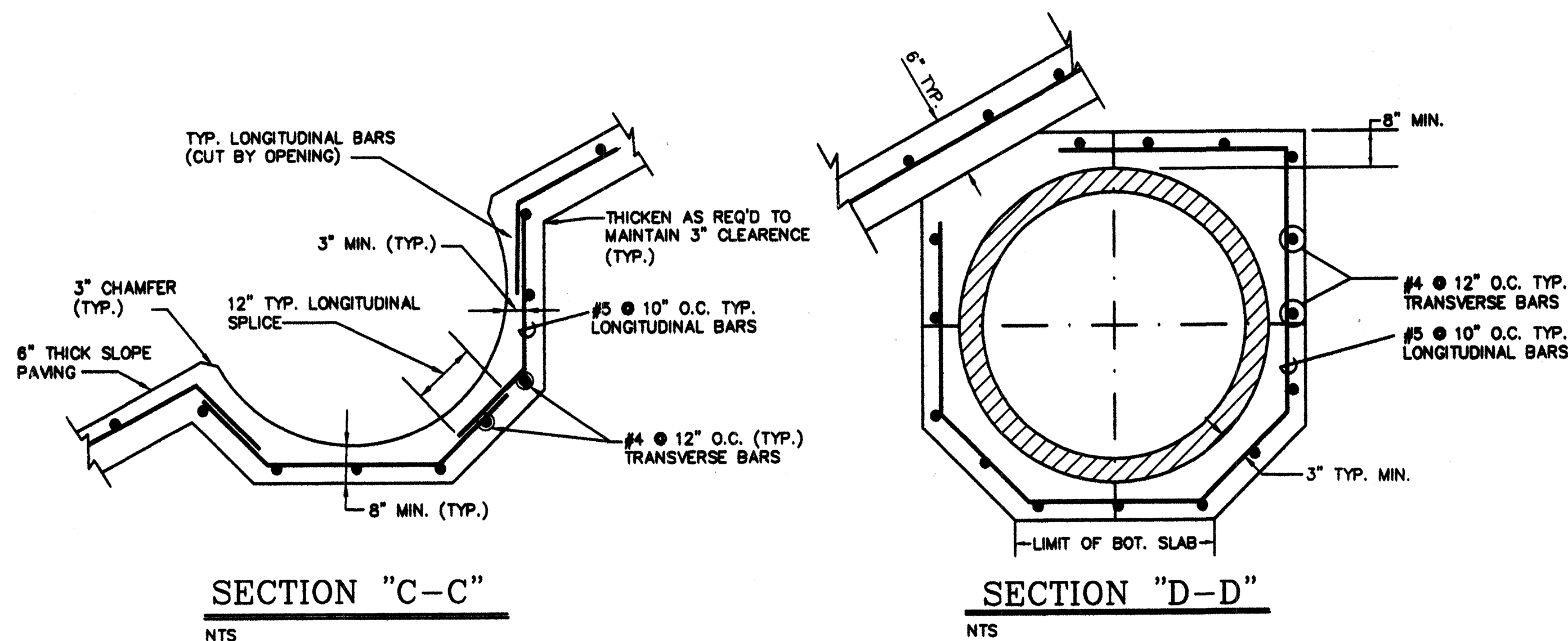
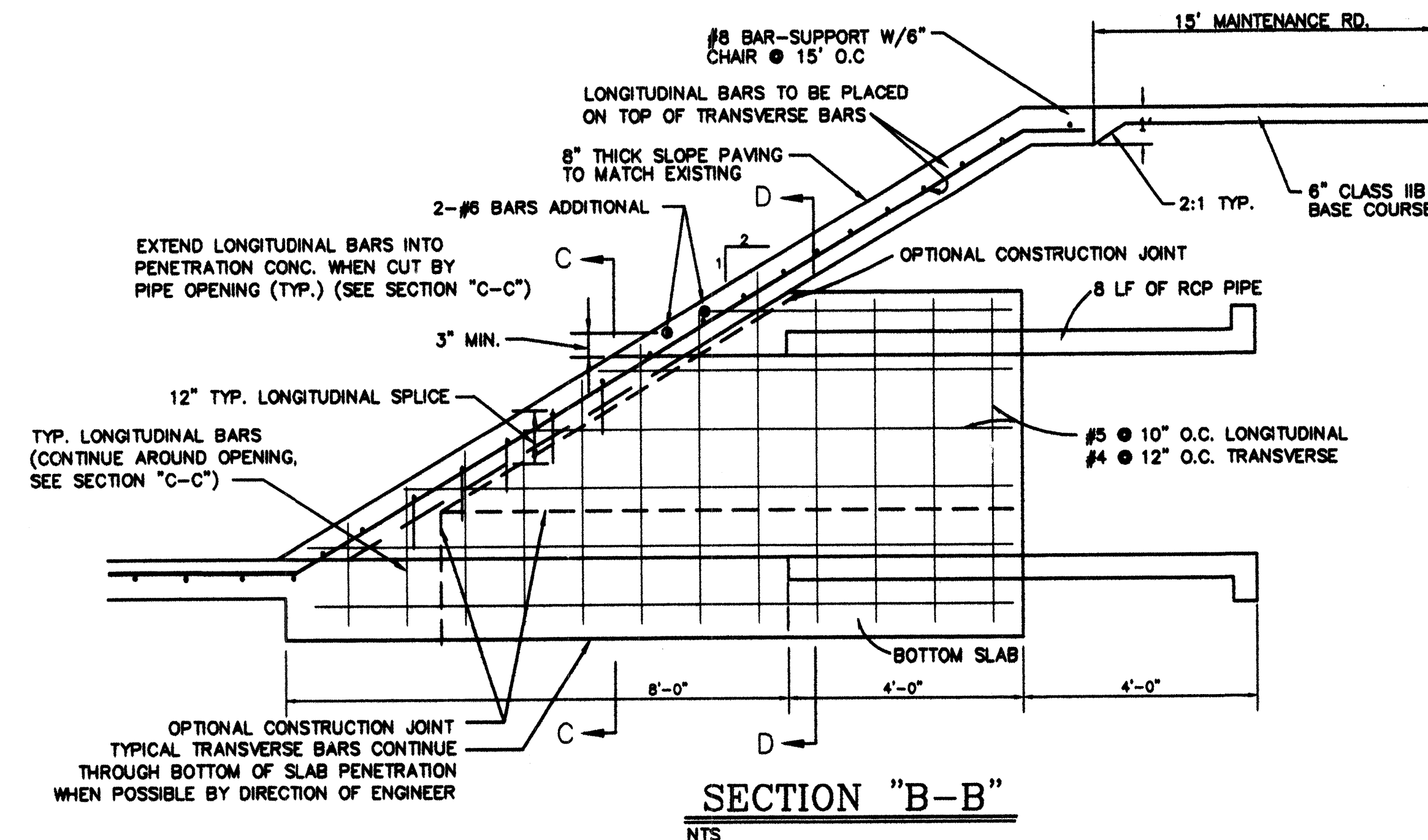
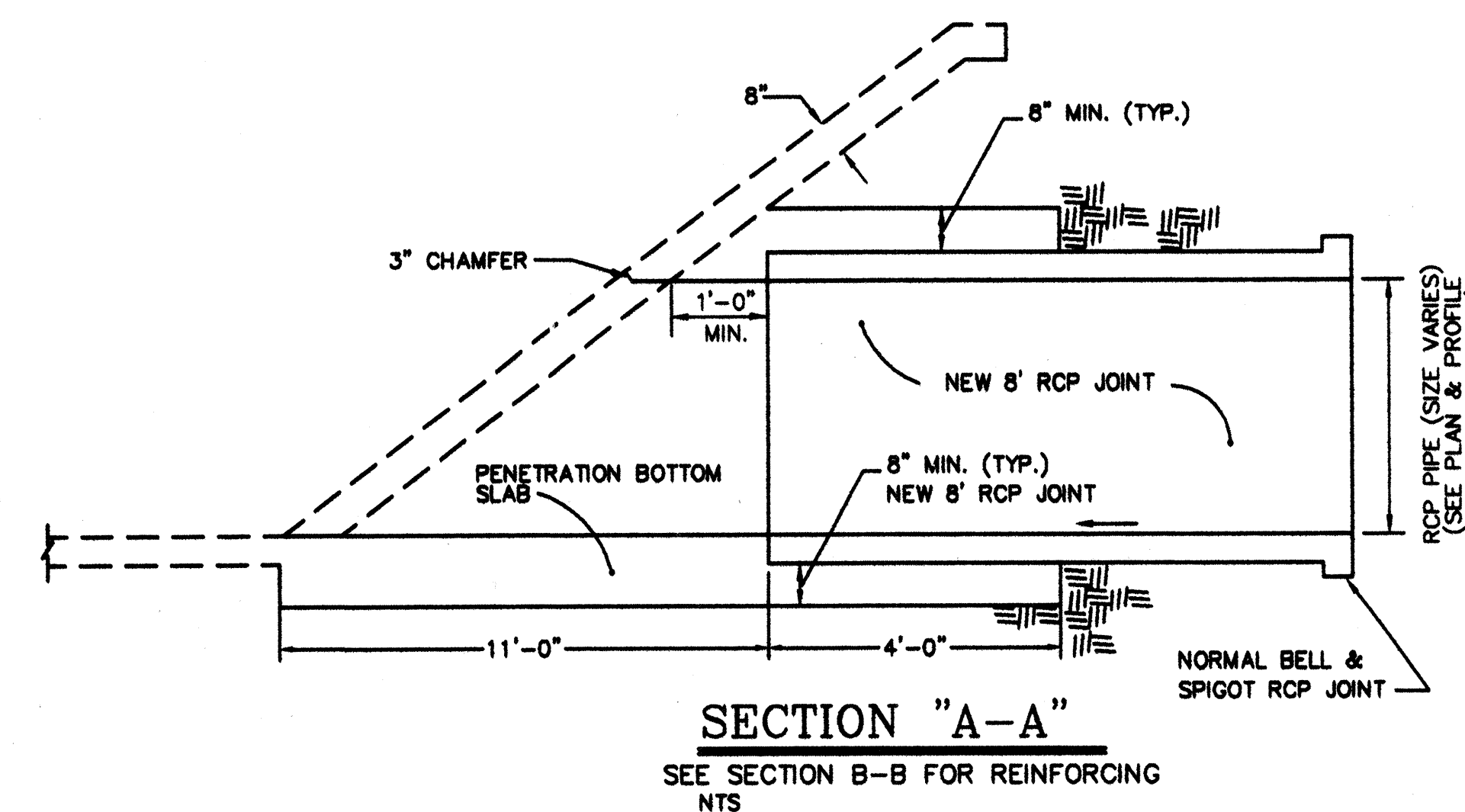
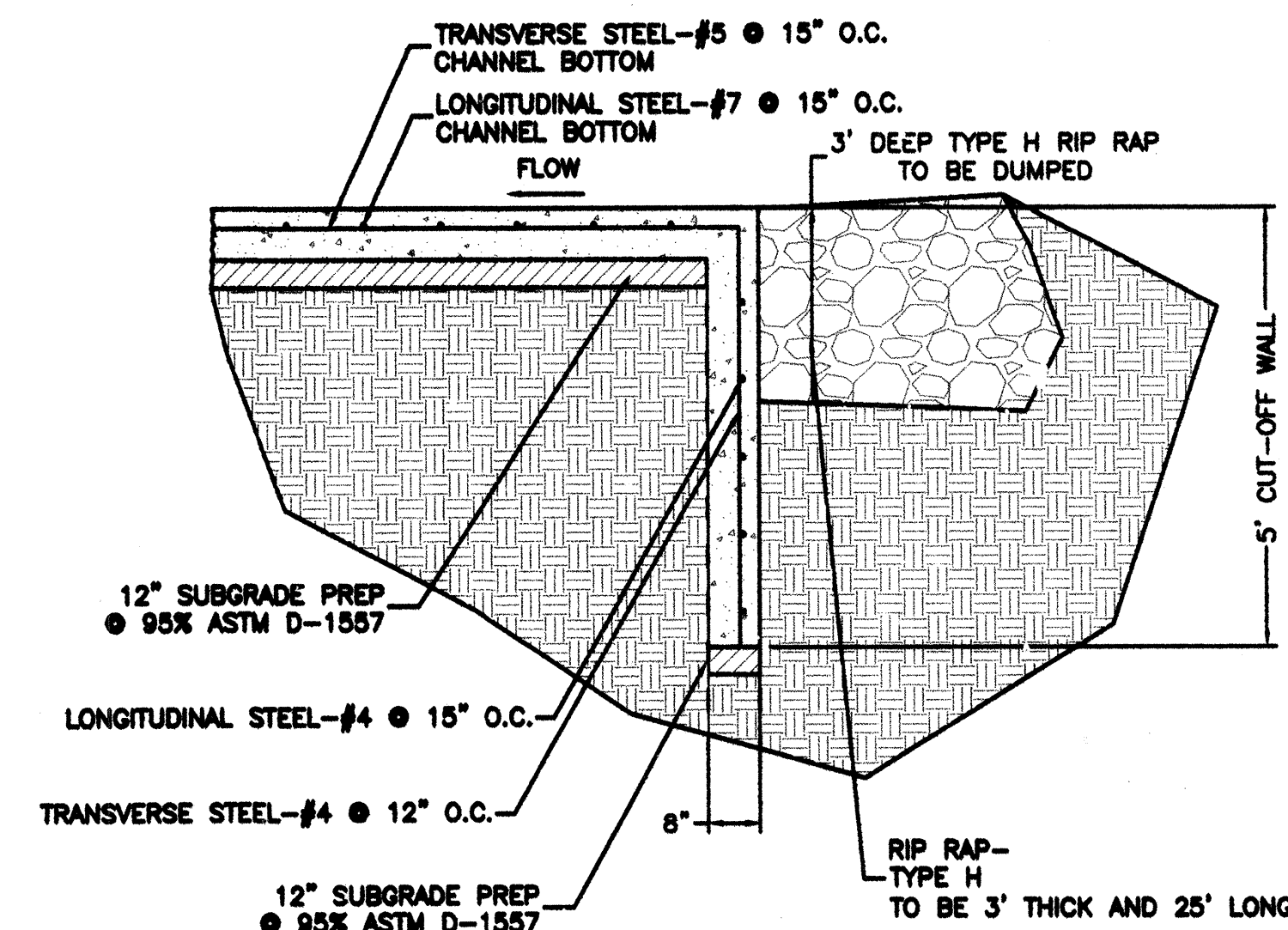
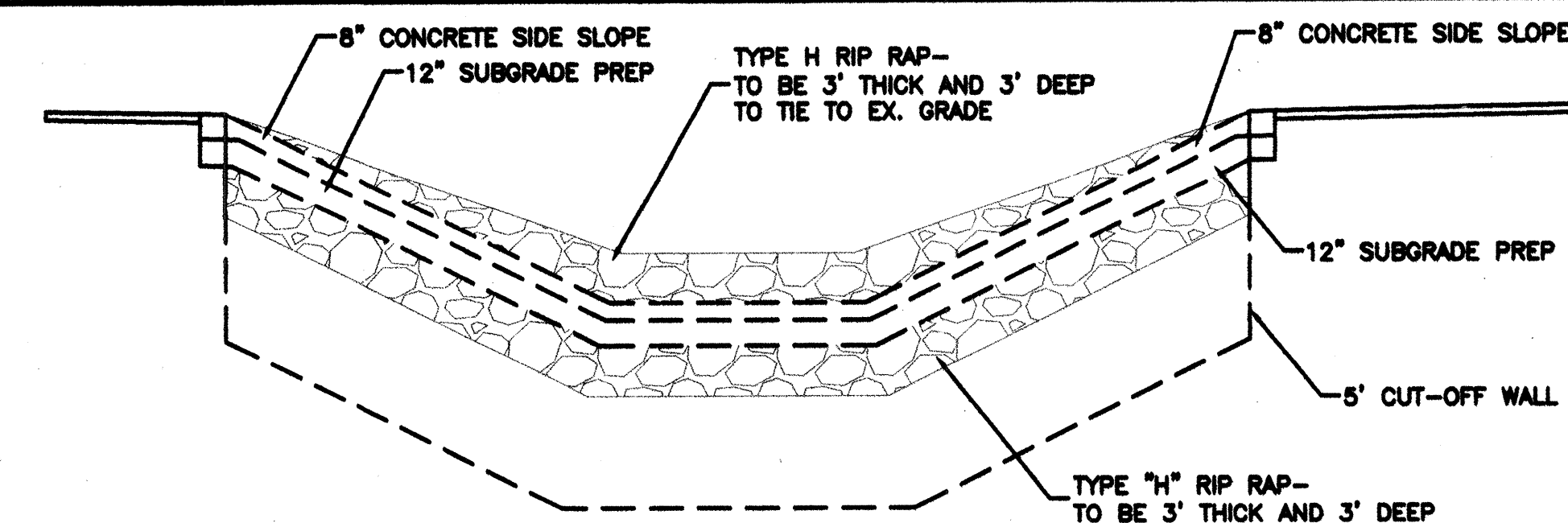
SCANNED BY
PLANNING



PIPE CHART	
PIPE SIZE	X
18" RCP	72"
24" RCP	78"
48" RCP	102"

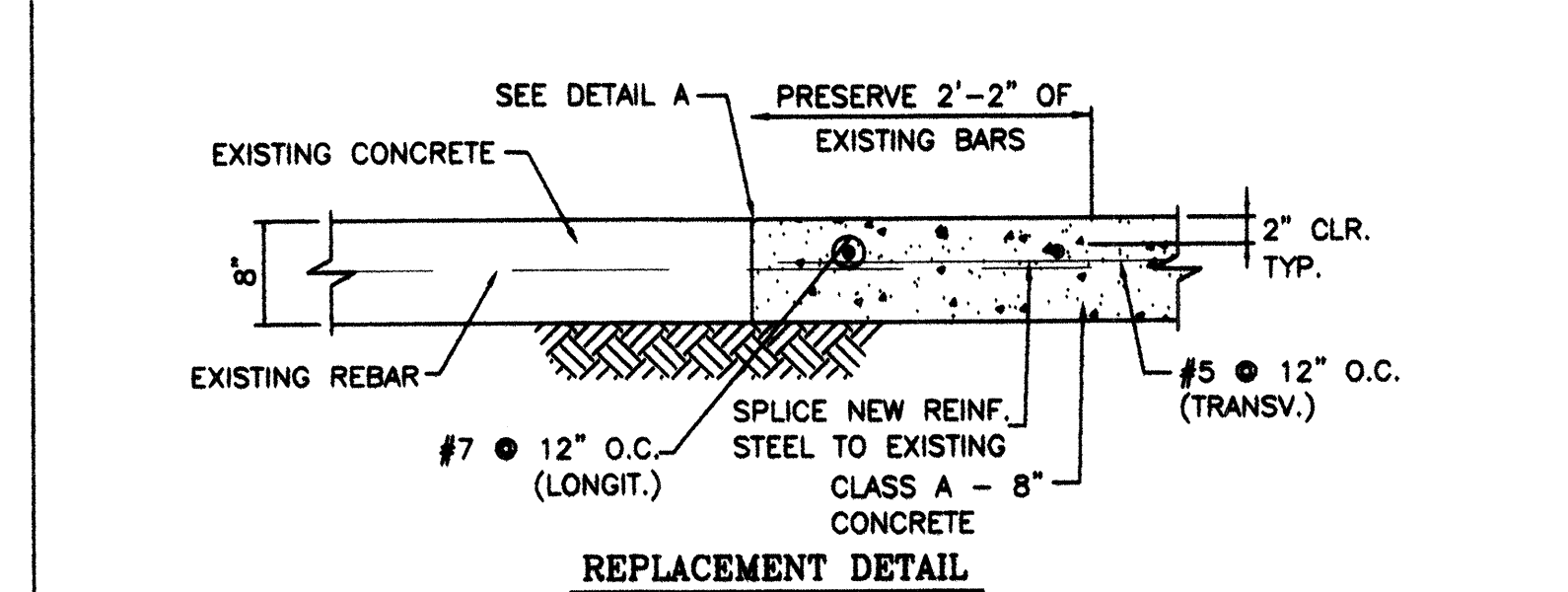
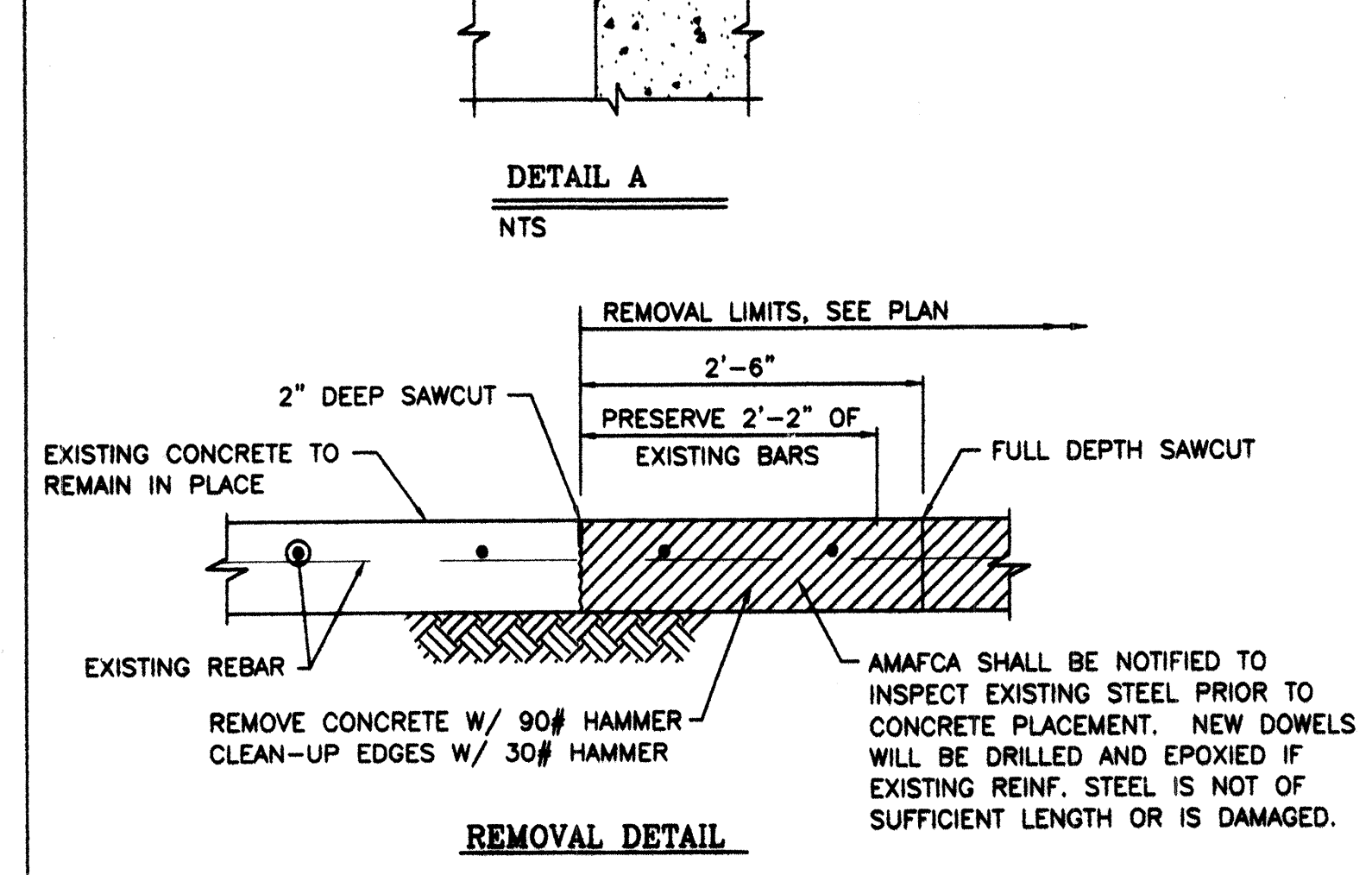
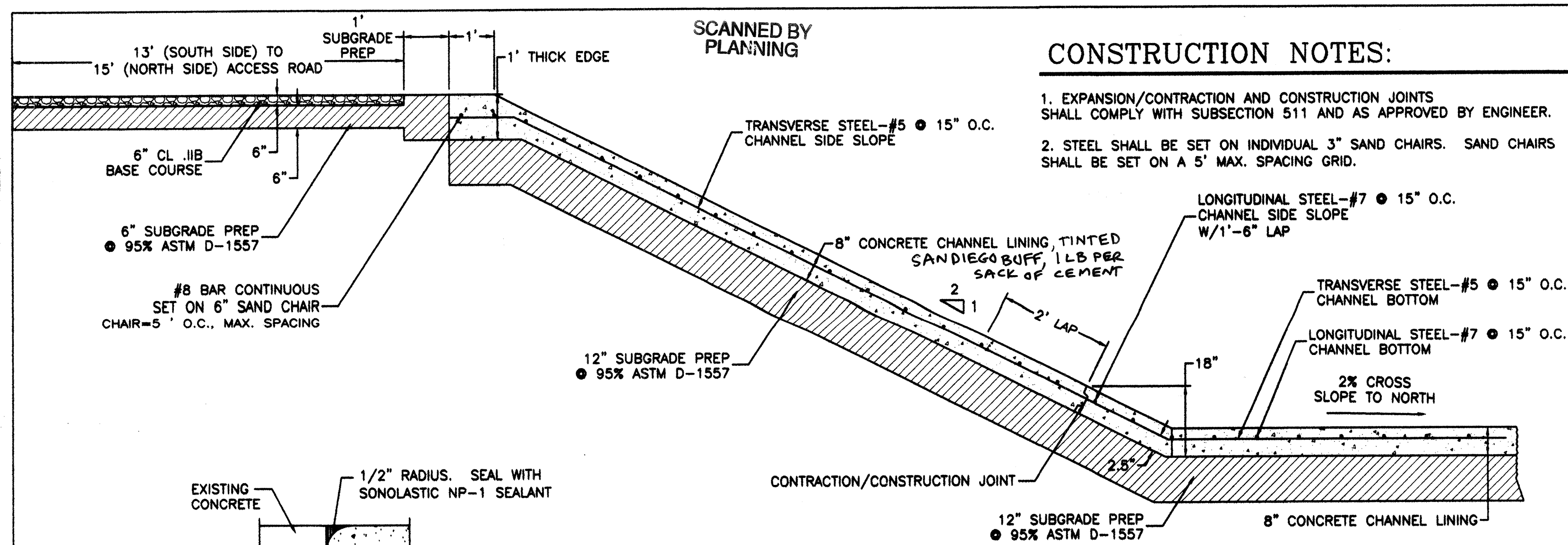
CONCRETE SPECIFICATIONS:

3000 PSI CONC.
4- 6% AIR INTRINMENT
20% FLYASH BY WEIGHT OF CEMENT

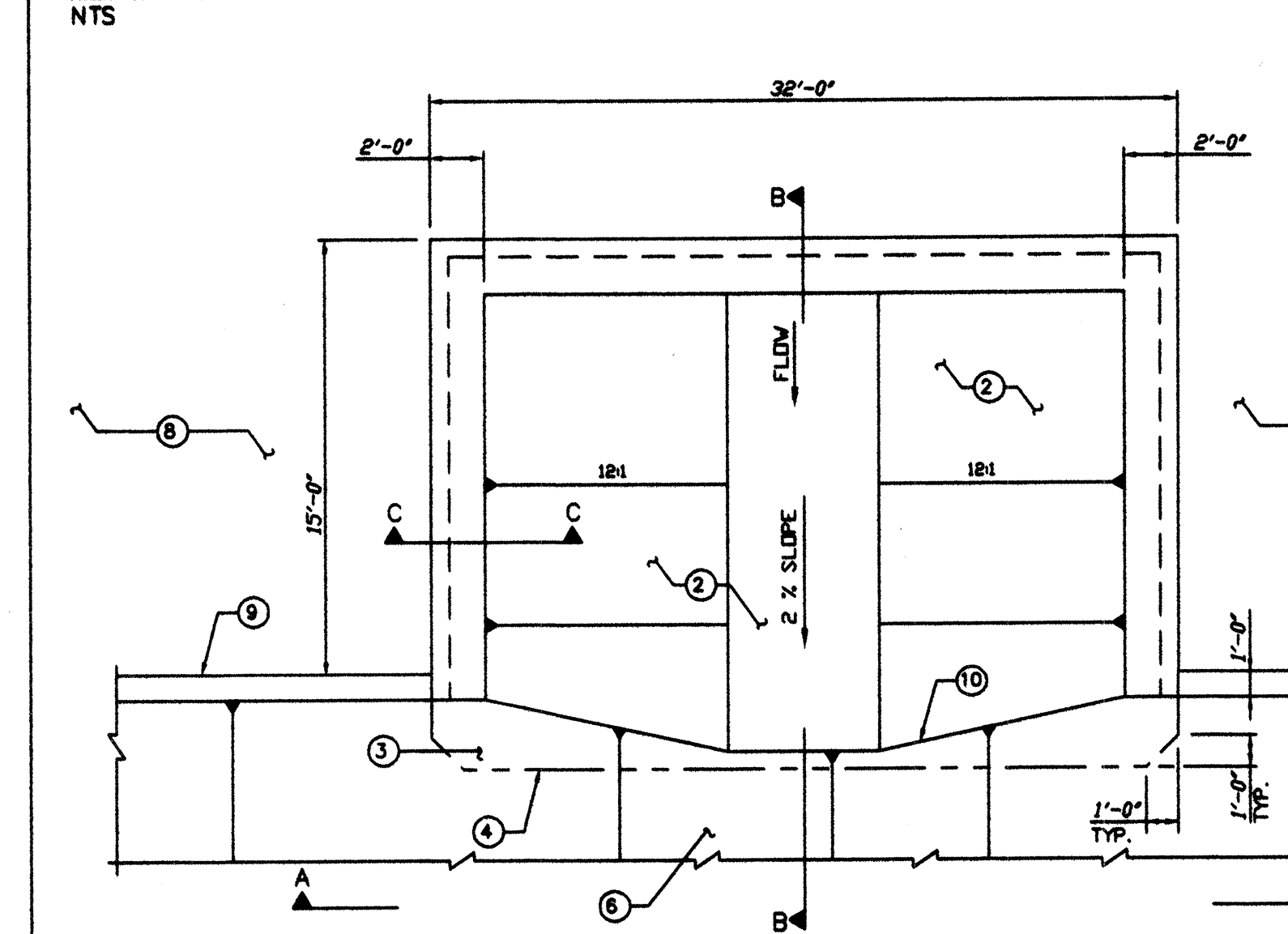


RECORD DRAWING
FOR CERTIFICATION, SEE SHEET 1

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: LA CUEVA ARROYO DETAILS	
DESIGN REVIEW COMMITTEE 	CITY ENGINEER APPROVAL
CITY PROJECT NO. 757781	ZONE MAP NO. C-20-Z
SHEET 9	OF 11



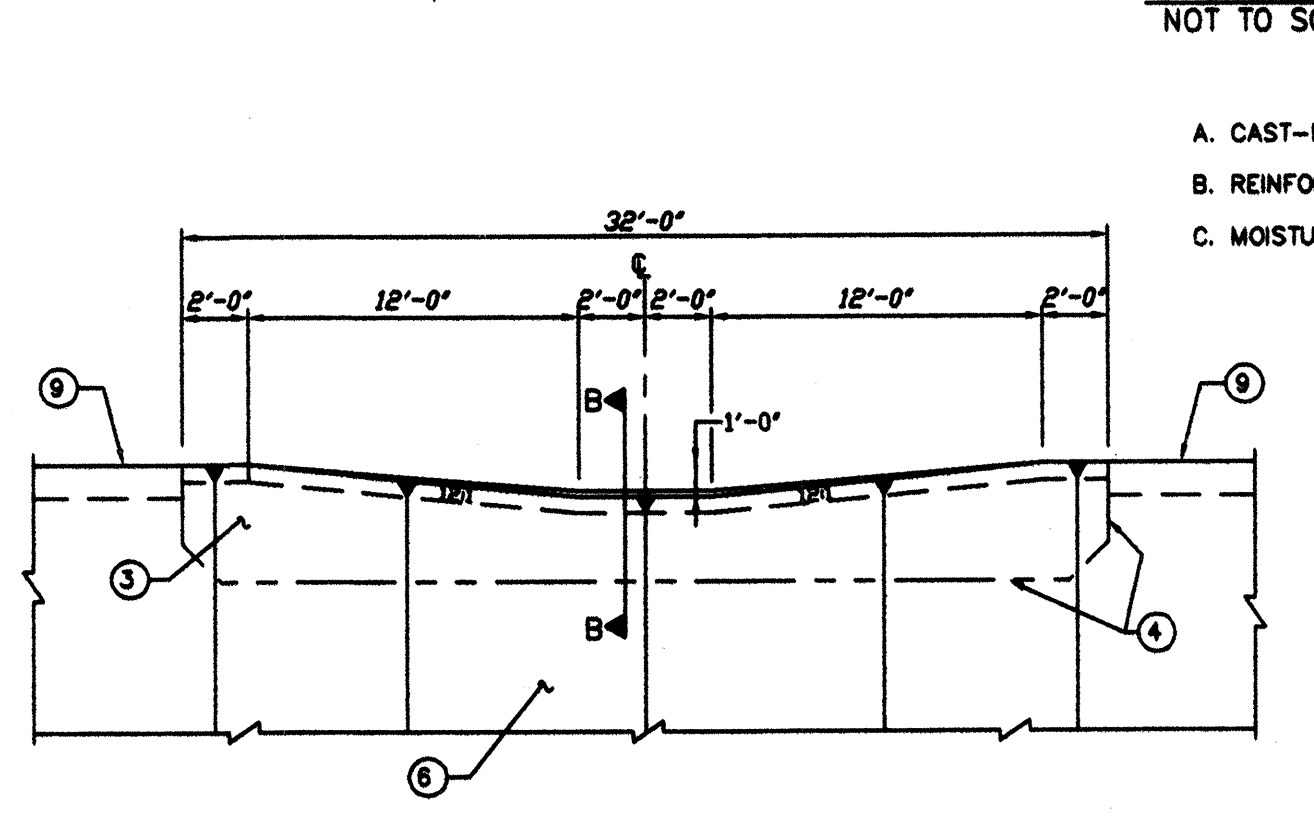
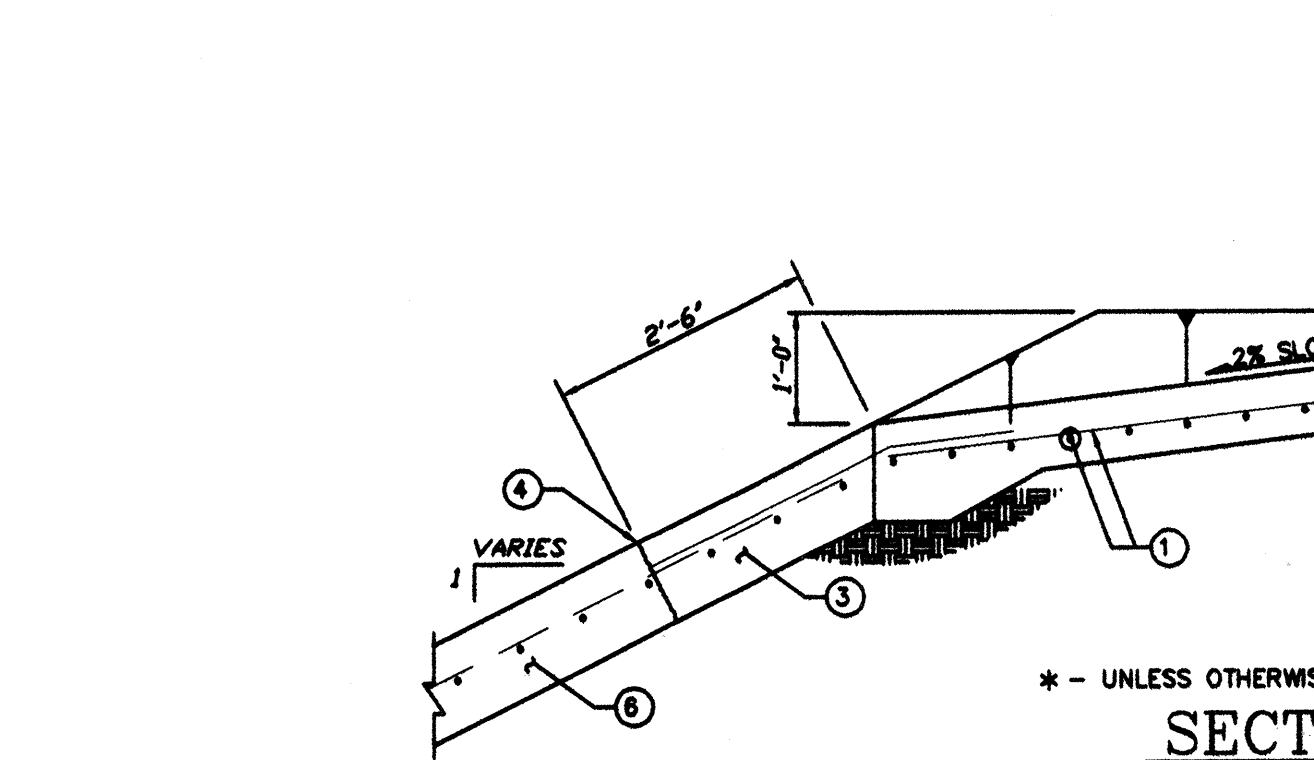
TRANSITION FOR NEW TO EX. CHANNEL DETAIL



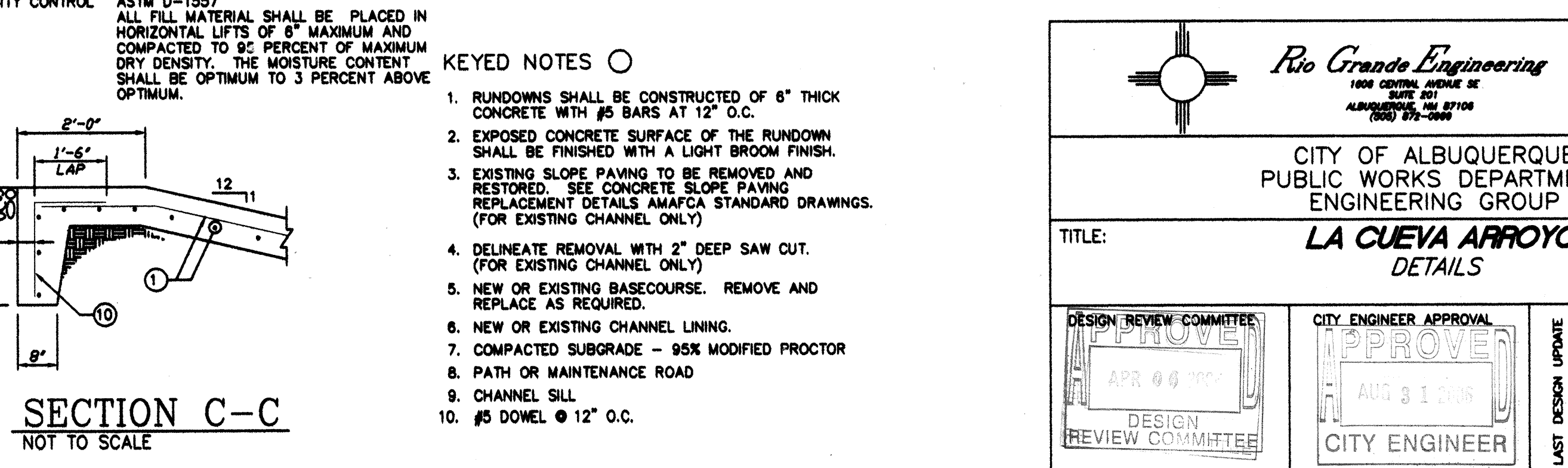
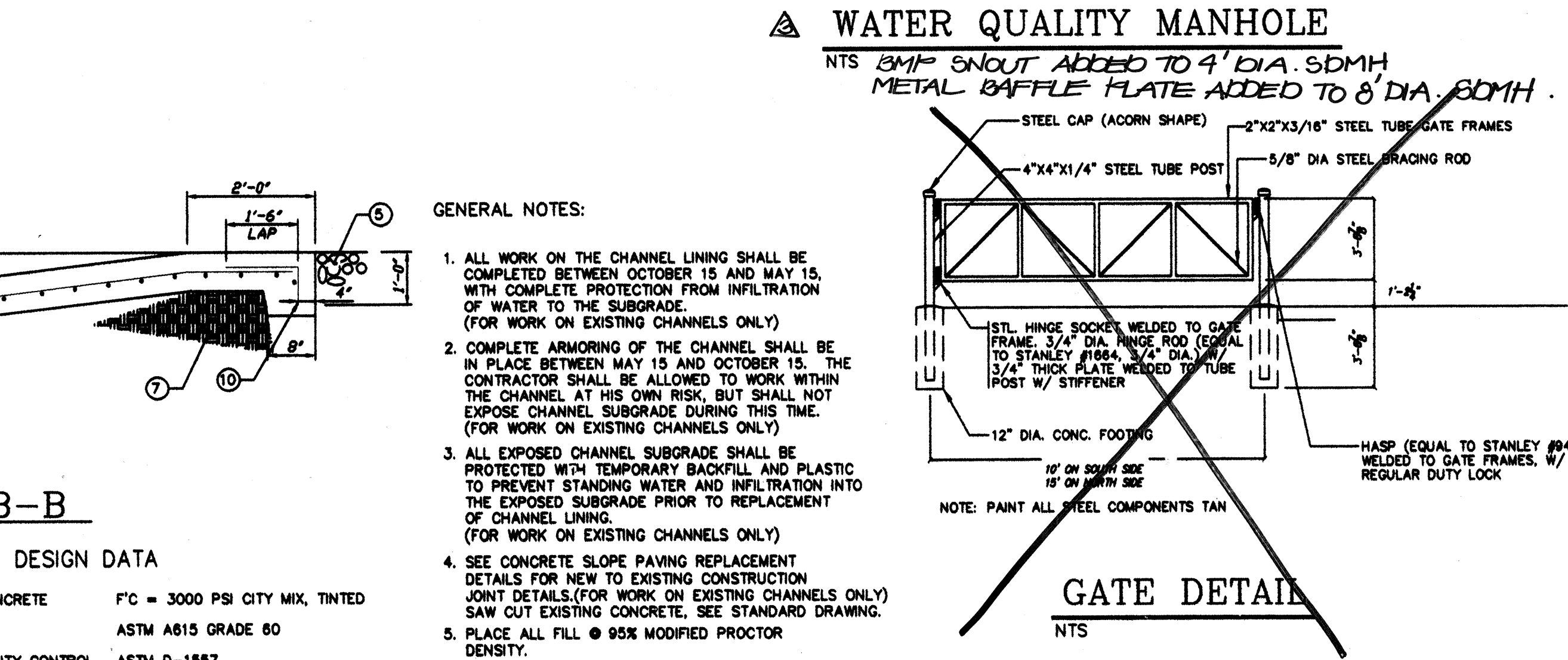
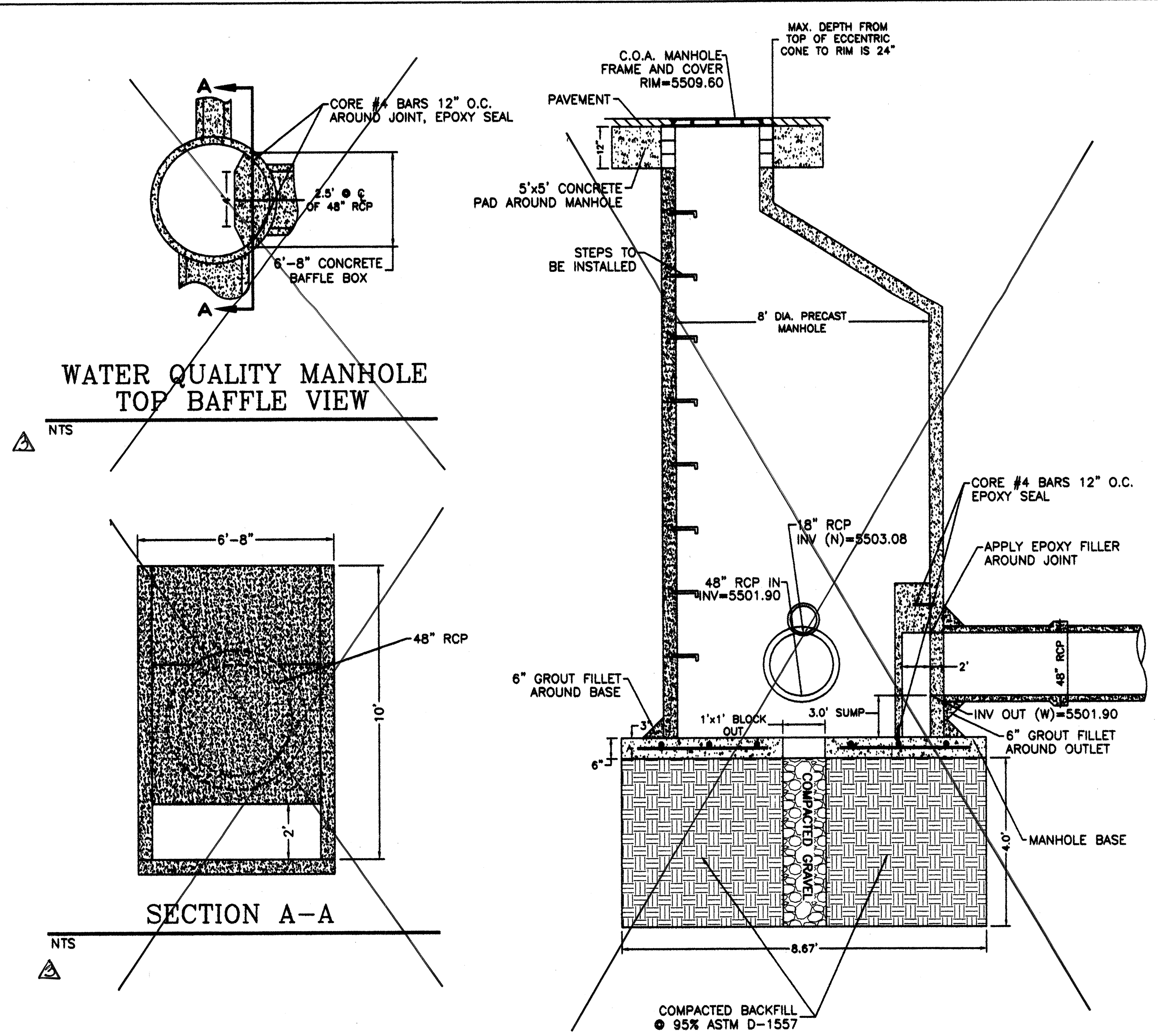
NOT TO SCALE

RECORD DRAWING

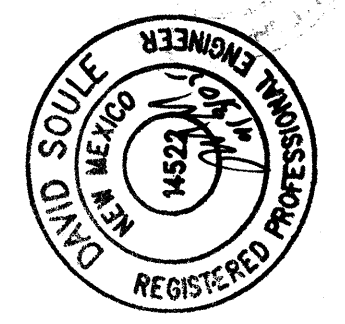
FOR CERTIFICATION, SEE SHEET 1



NOT TO SCALE



AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	THEORE & COMPANY	DATE	08/08/04	ACS MONUMENT	7-13"	DATE	08/08/04	NO.	1	BY	Cartesian	NO.	1	BY	Cartesian
DESIGNED BY	WCMJ	DATE	6-25-04	CENTRAL STATION DATA		DATE	08/08/04	NO.	1	BY	Cartesian	NO.	1	BY	Cartesian
DRAWN BY	WCMJ	DATE	6-25-04	NM STATE PLANE COORDINATES		DATE	08/08/04	NO.	1	BY	Cartesian	NO.	1	BY	Cartesian
CHECKED BY	DS	DATE	6-25-04	UTM ZONE	Central Zone	DATE	08/08/04	NO.	1	BY	Cartesian	NO.	1	BY	Cartesian
				X	352,978.14	DATE	08/08/04	NO.	1	BY	Cartesian	NO.	1	BY	Cartesian
				Y	1,478,346.71	DATE	08/08/04	NO.	1	BY	Cartesian	NO.	1	BY	Cartesian
				G-G	0.99967727	DATE	08/08/04	NO.	1	BY	Cartesian	NO.	1	BY	Cartesian
				DELTA ALPHA	-0.1656"	DATE	08/08/04	NO.	1	BY	Cartesian	NO.	1	BY	Cartesian
				EL	5175.735	DATE	08/08/04	NO.	1	BY	Cartesian	NO.	1	BY	Cartesian



Rio Grande Engineering
1000 CENTRAL AVENUE SE
SUITE 201
ALBUQUERQUE, NM 87102
(505) 274-2666

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

**LA CUEVA ARROYO
DETAILS**

DESIGN REVIEW COMMITTEE
APR 29 2004
DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL
APR 29 2004
CITY ENGINEER

MO./DAY/YR. MO./DAY/YR.

CITY PROJECT NO. 757781 ZONE MAP NO. C-20-Z SHEET 10 OF 11

Profile view of a road cross-section. The profile line starts at an elevation of 5470.00' on the left. It descends over a horizontal distance of 20' to a point at elevation 5465.12'. From there, it descends further over 10' to a point at elevation 5464.93'. The profile then rises over 15' to a point at elevation 5469.00'. It continues to rise over 10' to a point at elevation 5469.41'. Finally, it descends over 20' to a point at elevation 5468.41'. The centerline of the road is indicated by a dashed line labeled '2% TO NORTH'. The finished ground elevation is marked as FL=5457.43' at the bottom center.

Profile view of the proposed driveway. The diagram shows a cross-section with the following dimensions and elevations:

- Left Easement Line: 2.5' width.
- Segment 1: 14' horizontal distance, elevation 5483.04.
- Segment 2: 15' horizontal distance, elevation 5482.74.
- Segment 3: 17' horizontal distance, elevation 5482.74.
- Segment 4: 10' horizontal distance, elevation 5483.10.
- Segment 5: 17' horizontal distance, elevation 5483.10.
- Segment 6: 18' horizontal distance, elevation 5484.50.
- Segment 7: 5.5' horizontal distance, elevation 5484.50.
- Right Easement Line: 5.5' width.
- Vertical Curve: 2% TO NORTH, FL=5474.24.
- Labels: "6' SCREEN WALL" and "SCREEN WALL" are indicated.
- Ground Elevation: 5479.10 on the left, 5479.01 at the start of the driveway.

Profile view of the proposed road showing elevations and horizontal distances. The profile starts at an elevation of 5498.00 on the left, rises to 5498.98, then to 5499.11, 5498.75, 5498.75, 5499.11, and ends at 5498.00 on the right. Horizontal distances between points are 2.5', 14', 17', 15', 10', 17', 17', and 28'. Vertical curve data includes a 2% grade to the north and a final elevation of FL=5490.25.

Profile view of the proposed road section. The diagram shows a cross-section with elevations and dimensions. The centerline elevation is 5502.25. The road width is 20 feet, with 10 feet on each side of the centerline. The side slopes are 2% to the north. The elevations at the edges of the road are 5504.91 on the left and 5509.71 on the right. The elevations at the corners are 5510.95 and 5510.75. The elevations at the ends of the section are 5504.96 and 5509.73. The dimensions are 2.5' at the ends, 14' and 15' on the left side, and 17' and 10' on the right side.

Profile view of the proposed road showing elevations and dimensions. The profile starts at an elevation of 5521.68 on the left, rises to 5521.63, then to 5524.30, 5522.75, and 5522.76. It then drops to a low point of 5514.25 (labeled FL=5514.25) before rising to 5524.30 on the right. Horizontal dimensions are 2.5', 14', 15', 17', 12', 17', and 22'. A vertical curve is indicated with "2% TO NORTH" and "FL=5514.25". Easement lines are marked on both ends.

Profile view of the bridge deck showing a cross-section with a central 2% northward slope. The deck width is 100 feet, divided into segments of 28', 17', 10', 17', 17', and 21'. Elevation points are marked at 5469.00, 5468.59, 5468.57, and 5476.00. The finished floor level (FL) is 5459.97.

Profile view of the proposed road showing elevations and stationing. The profile starts at an elevation of 5498.00' on the left, rises to a peak of 5497.98', then descends to a low point of 5501.75'. It then rises to a peak of 5501.75', descends to a low point of 5501.95', and finally rises to an elevation of 5493.75' on the right. The profile is defined by a series of points with elevations: 5498.00, 5497.98, 5501.95, 5501.75, 5501.75, 5501.95, and 5493.75. The horizontal distances between these points are: 2.5', 14', 15', 17', 10', 17', 17', and 24'. The profile is labeled with 'EASEMENT LINE' at both ends. The centerline is labeled '2% TO NORTH' and 'FL=5493.25'.

Profile view of the bridge deck. The deck is shown with a 2% downward slope to the north. Key elevations and dimensions are as follows:

- Left Abutment Line: 5507.96
- Left End of Deck: 5507.91
- Deck Segment 1: 14' horizontal distance, elevation 5513.95
- Deck Segment 2: 15' horizontal distance, elevation 5513.75
- Deck Segment 3: 17' horizontal distance, elevation 5505.25 (at the bottom of the 2% slope)
- Deck Segment 4: 10' horizontal distance, elevation 5505.25
- Deck Segment 5: 17' horizontal distance, elevation 5513.75
- Deck Segment 6: 17' horizontal distance, elevation 5513.95
- Right End of Deck: 7.5' horizontal distance, elevation 5515.42
- Right Abutment Line: 5515.42

Profile view of the proposed road section. The diagram shows a cross-section with various elevations and dimensions. The left side is labeled "EASEMENT LINE" and the right side is labeled "EASEMENT LINE". The profile starts at an elevation of 5522.75 on the left, rises to 5526.05, then to 5525.75, and finally to 5525.75. The right side starts at 5525.75 and rises to 5526.19. The profile is defined by several segments with horizontal dimensions: 2.5', 14', 15', 17', 12', 17', and 22'. A vertical dimension of 2' is indicated for the segment between the 12' and 17' horizontal segments. The centerline elevation is marked as FL=5517.25.

Profile view of a road cross-section. The horizontal axis shows segments with dimensions: 2.5', 10', 15', 17', 10', 17', 15', 13', and 2.5'. The vertical axis shows elevations: 5473.00, 5472.98, 5472.31, 5472.01, 5472.01, 5472.31, 5476.00, and 5476.25. A central vertical line is labeled '2% TO NORTH' and 'FL=5462.85'.

Profile view of the proposed 2% to north gutter. The diagram shows a cross-section of the gutter with a 2% slope to the north. Key elevations include 5503.50, 5504.95, 5504.75, 5504.75, 5504.95, and 5497.46. Distances between points are marked as 2.5', 14', 15', 17', 10', 17', 17', and 24'. The centerline elevation is FL=5498.25. Easement lines are indicated on both sides.

Profile view of the proposed road showing elevations and horizontal distances. The vertical axis represents elevation in feet, and the horizontal axis represents distance in feet. The profile starts at an elevation of 5512.03 on the left, rises to a peak of 5516.95, then descends to a low point of 5511.98, rises to a peak of 5518.75, descends to a low point of 5508.25, rises to a peak of 5518.75, descends to a low point of 5516.95, and finally rises to an elevation of 5518.50 on the right. The horizontal distances between points are: 2.5', 14', 15', 17', 10', 17', 17', and 7.5'. A 2% grade is indicated from the low point of 5508.25 to the peak of 5518.75. The vertical axis is labeled 'EASEMENT LINE' at both ends.

Point	Elevation (ft)	Horizontal Distance (ft)
1	5512.03	0
2	5516.95	2.5
3	5511.98	16.5
4	5518.75	31.5
5	5508.25	41.5
6	5518.75	58.5
7	5516.95	75.5
8	5518.50	82.5

Profile view of a proposed road section. The diagram shows a cross-section with various elevations and dimensions. The left side is labeled "EASEMENT LINE" and the right side is labeled "EASEMENT LINE". The profile starts at an elevation of 5476.50 on the left, rises to 5477.89 at a 2.5' distance, then to 5477.53 at a 14' distance. It then drops to 5476.48 at a 15' distance, and further to 5475.55 at a 17' distance. The lowest point is labeled "FL=5467.55". The profile then rises to 5477.53 at a 10' distance, and to 5477.89 at a 17' distance. The right side of the profile is labeled "6' SCREEN WALL" and "SCREEN WALL". The elevation at the right end is 5478.75. The distance from the lowest point to the right end is 18' + 5.5' = 23.5'. The diagram also indicates a "2% TO NORTH" slope.

Profile view of the bridge deck. The left side is labeled 'EASEMENT LINE'. The right side is labeled 'EASEMENT LINE' and '6' SCREEN WALL'. The profile shows a series of horizontal segments with the following elevations and dimensions:

- Left end elevation: 5496.00
- Segment 1: 2.5' horizontal, 14' horizontal, 15' horizontal, 17' horizontal, 10' horizontal
- Elevation at 10' segment end: 5495.75
- Segment 2: 17' horizontal, 18' horizontal, 5.5' horizontal
- Elevation at 18' segment end: 5495.75
- Elevation at 5.5' segment end: 5496.11
- Right end elevation: 5496.94
- Vertical drop from 10' segment end to 17' segment start: 2% TO NORTH
- Bottom center elevation: FL=5487.25
- Bottom right label: SCREEN WALL

Profile view of a proposed road section. The diagram shows a cross-section with a centerline and two easement lines. The centerline has a 2% upward slope. The elevations at the ends of the section are 5503.00' on the left and 5508' on the right. The centerline elevation is 5499.25'. The horizontal distances between points are 2.5', 14', 15', 17', 10', 17', 17', and 6'. The elevations at the points along the centerline are 5507.95', 5507.75', and 5507.95'. The elevation at the left end of the centerline is 5502.98'.

Profile view of the bridge deck. The deck is divided into segments with the following horizontal dimensions from left to right: 2.5', 14', 15', 17', 10', 17', and 25'. The vertical axis shows elevations: 5518.05' at the left end, 5518.00' at the first segment boundary, 5520.15' at the second boundary, 5519.75' at the third boundary, 5519.75' at the fourth boundary, and 5520.30' at the right end. A central vertical line is labeled '2% TO NORTH' and 'FL=5511.25'.

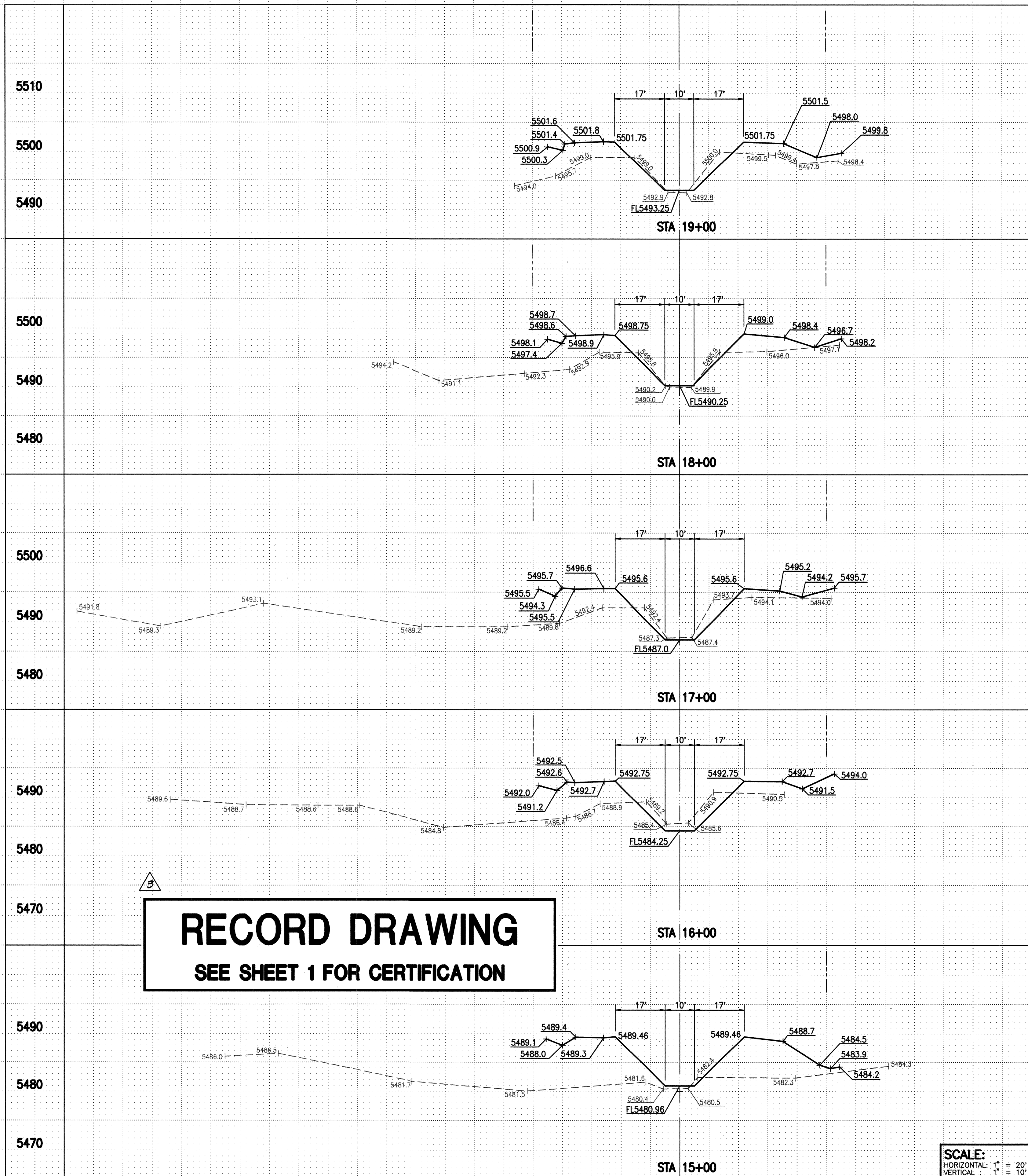
2

	3000 COMMERCIAL ROAD NE ALBUQUERQUE, NM 87107 (505) 875-0000
	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP
TITLE:	LA CUEVA APPLICANT CHANNEL SECTION
DESIGN REVIEW COMMITTEE 	CITY ENGINEER APPROVAL 

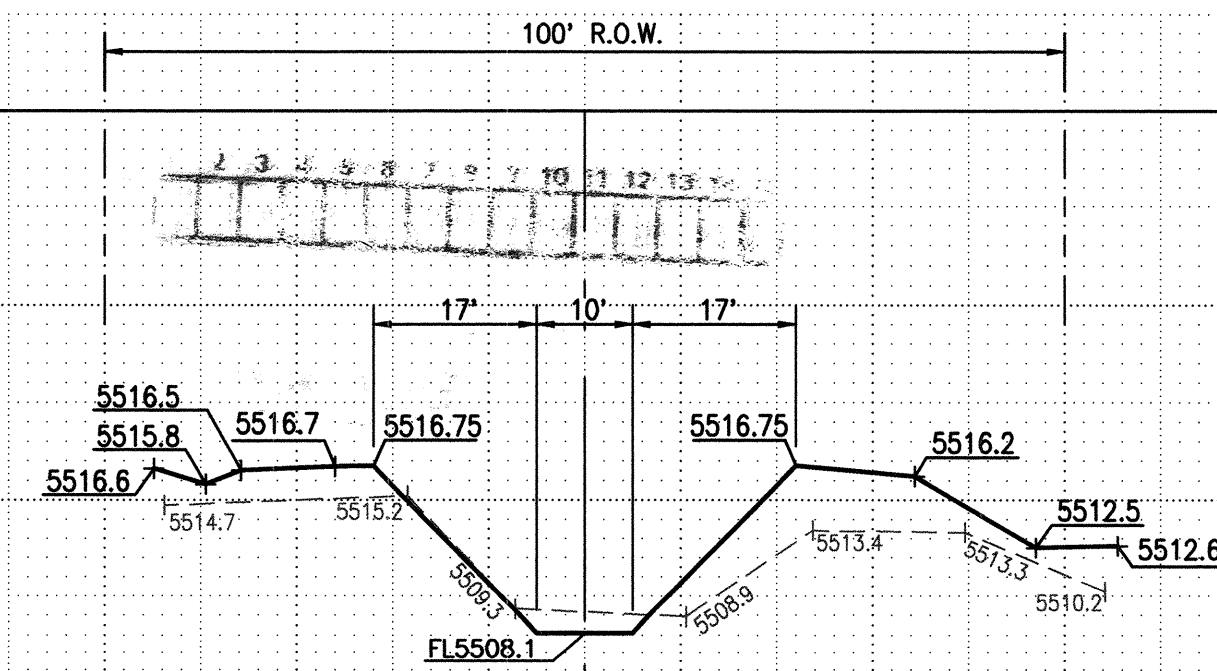
[illegible]

2006. 04.1

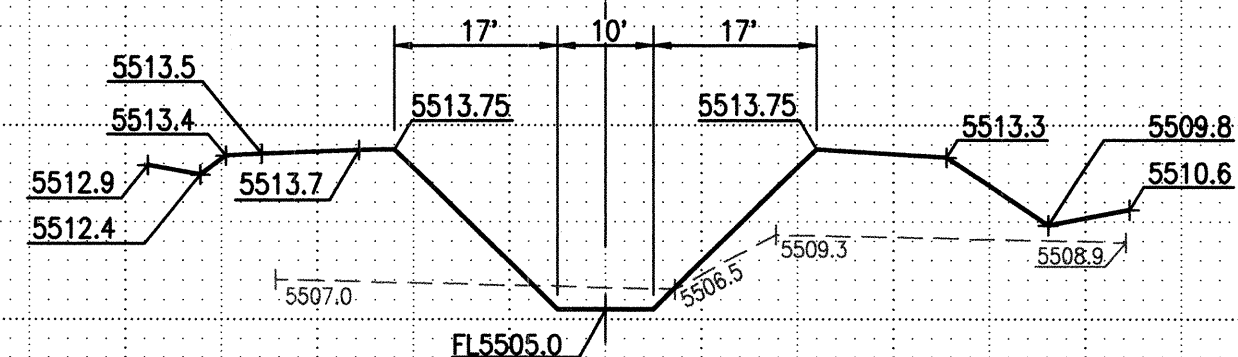
File Path:	E:\DATA\CDU\1\2005.04.1\	Plot Date:	07-18-2007
File Name:	60411CS1AB_R.DWG	Plot Time:	08:37 am



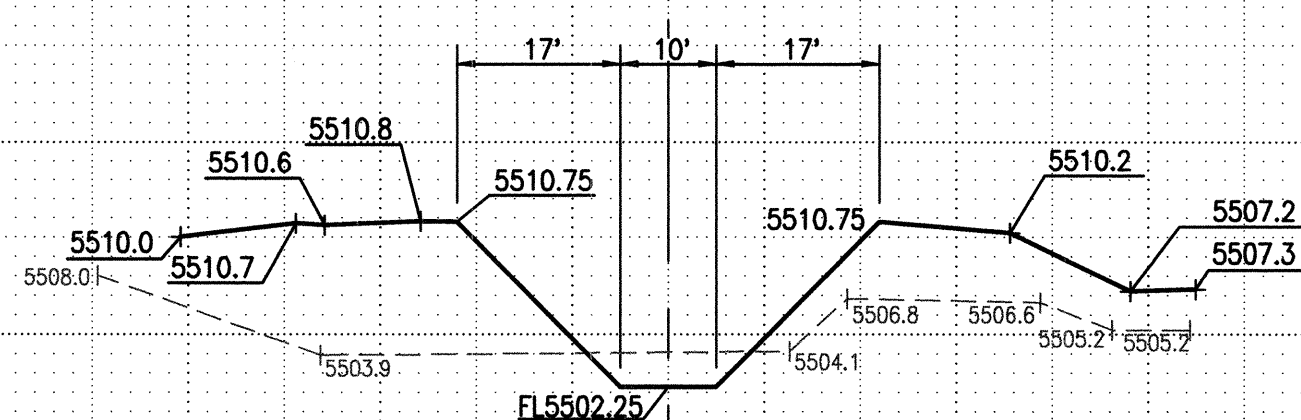
SCALE:
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 10'



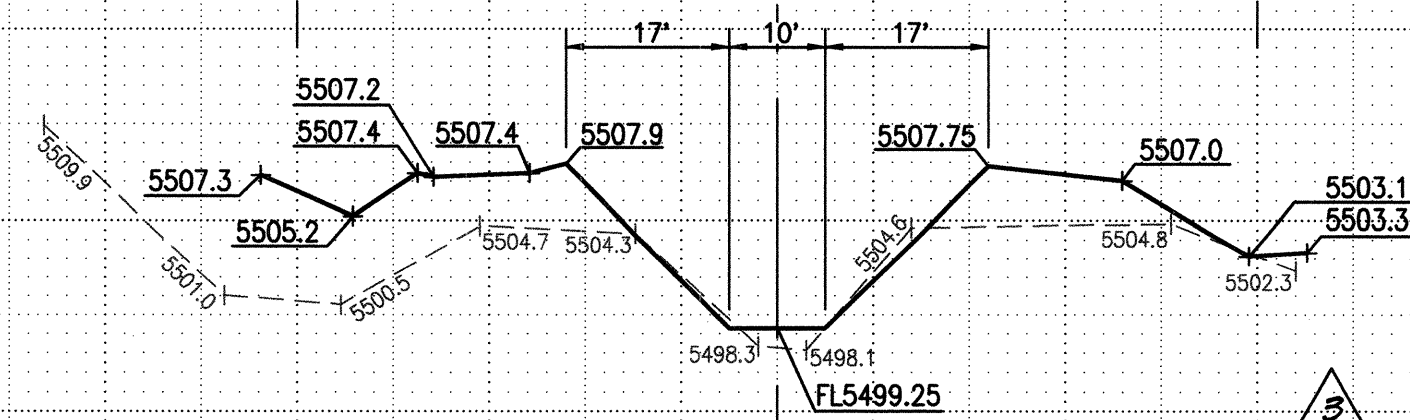
STA 24+00



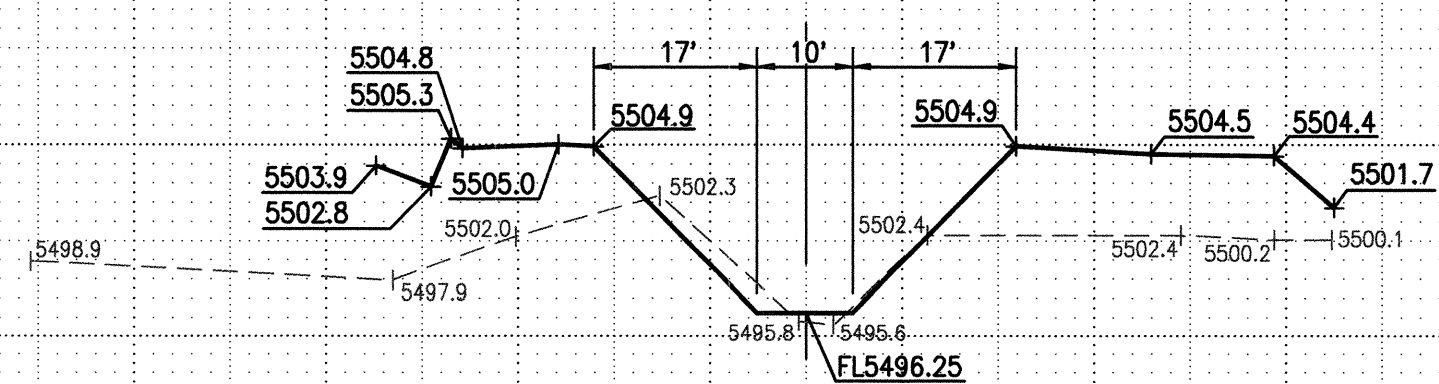
STA 23+00



STA 22+00

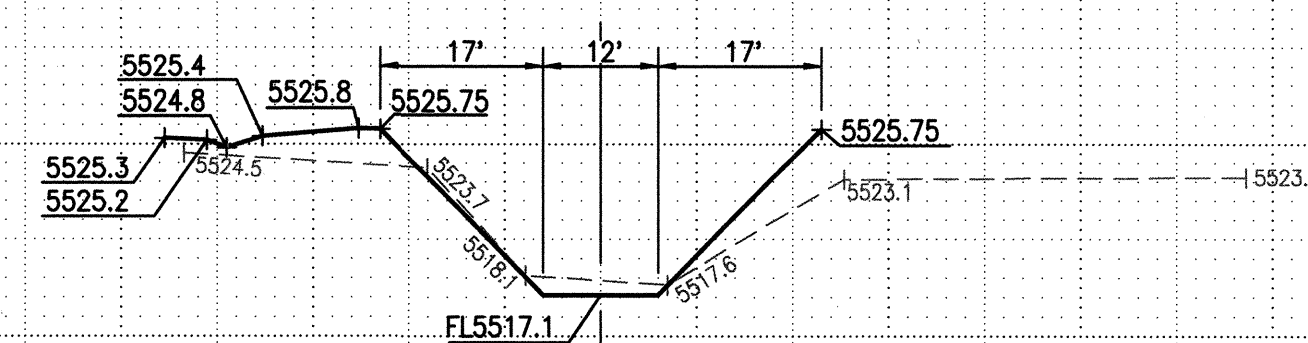


STA 21+00

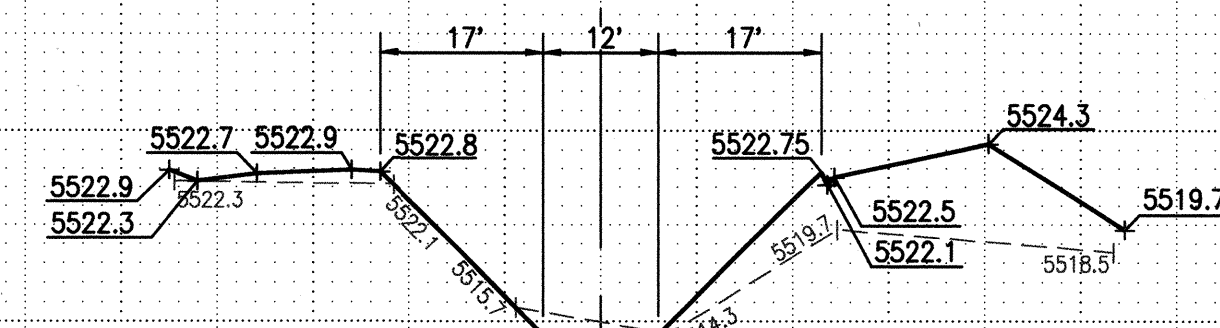


STA 20+00

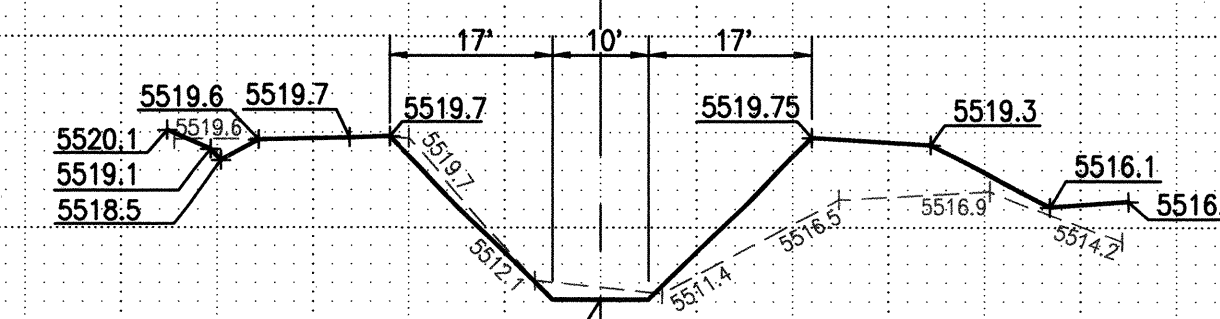
RECORD DRAWING
SEE SHEET 1 FOR CERTIFICATION



STA 27+00



STA 26+00



STA 25+00

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