

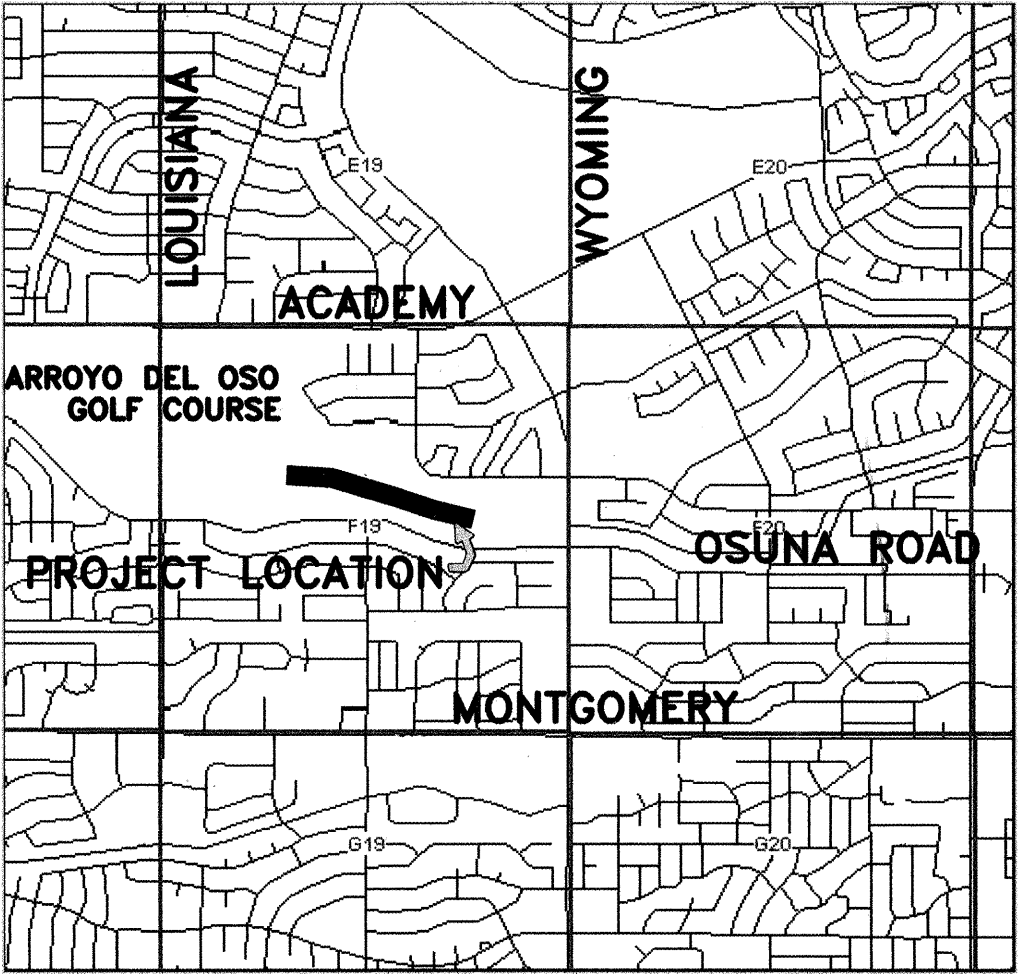
CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
HYDROLOGY DIVISION

CONSTRUCTION PLANS  
FOR  
BEAR CANYON ARROYO  
WEST OF WYOMING

SEPTEMBER 2003

INDEX OF DRAWINGS

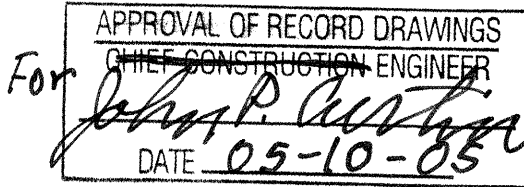
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VICINITY MAP  
ZONE ATLAS MAP F-19  
NOT TO SCALE

UTILITY COMPANY CONTACTS  
DATE LAST EDITED: 7-28-2003

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OLSON, GREG	OFFICE PHONE: (505) 768-2719 OFFICE FAX: (505) 768-3629 golson@cabq.gov	CITY OF ALBUQUERQUE PRINCIPAL ENGINEER, UTILITY DEVELOPMENT P.O. BOX 1293 ALBUQUERQUE, NM 87103
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KETTERER, JEFF	OFFICE PHONE: (317) 633-5562 OFFICE FAX: (317) 633-4824 Jeffery.ketterer@genuity.com	GENUITY SUPERVISOR-OSP MAINTENANCE 175 NORTH COLLEGE AVE. INDIANAPOLIS, IN 46202
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**RECORD DRAWING CERTIFICATION**  
I, W. Pierce Runnels III of the firm ASCG Incorporated, hereby certify that this project has been constructed in substantial compliance with and in accordance with the design intent of the approved plans dated September 2003. The record information edited onto the original design document has been obtained by Larry W. Medrano, NMPS 11993, of Precision Surveys Inc. All vertical and horizontal dimensions should be field verified prior to use on future projects.

*Pierce Runnels* 10.12.5  
W. PIERCE RUNNELS III DATE  
NMPE 13690

**RECORD DRAWING**  
Date 12/13/04  
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS' STAMP & SIGNATURE		APPROVALS	ENGINEER	DATE	* * * * *		
		DRC Chairman	<i>[Signature]</i>	9-14-03	APPROVED FOR CONSTRUCTION <i>[Signature]</i> 9/16/03 City Engineer Date		
		Transportation	<i>[Signature]</i>	9/16/03			
		Water/Wastewater	<i>[Signature]</i>	9/16/03			
		Hydrology	<i>[Signature]</i>	9-12-03			
		Parks & Recreation	<i>[Signature]</i>				
Open Space Division		Const Coord	<i>[Signature]</i>	9-14-03			
City Project No.		689502	Sheet		1	Of 13	



(SEE PLANS FOR ITEMS WITHIN THIS PROJECT)

LEGEND

PROPOSED	EXISTING	DESCRIPTION	PROPOSED	EXISTING	DESCRIPTION
		SANITARY SEWER MANHOLE			STORM DRAIN MANHOLE
		WATER MANHOLE			TELEPHONE MANHOLE
		SANITARY SEWER LINE WITH SIZE AND TYPE			STORM DRAIN LINE WITH SIZE AND TYPE
		WATER LINE WITH SIZE AND TYPE			OVERHEAD ELECTRICAL LINE
		UNDERGROUND ELECTRICAL/TRAFFIC CONTROL			UNDERGROUND TELEPHONE
		GAS LINE WITH SIZE AND TYPE			CABLE TELEVISION LINE
		ENCASEMENT			CATCH BASIN
		GATE VALVE			BUTTERFLY VALVE
		FIRE HYDRANT			REDUCER
		SANITARY SEWER SERVICE CONNECTION			WATER SERVICE CONNECTION
		TEE			CROSS
		BEND			CAP AND PLUG
		WATER METER			DOUBLE WATER METER
		VALVE BOX			POWER POLE
		LIGHT POLE			TRAFFIC LIGHT
		TRAFFIC CONTROL BOX			PULL BOX
		TELEPHONE BOOTH			

ABBREVIATIONS

AB	ANCHOR BOLT	DWG	DRAWING	MH	MANHOLE	SD	STORM DRAIN
AC	ASPHALTIC CONCRETE	E	EAST	MIN	MINIMUM	SF	SQUARE FEET
AHD	AHEAD	EA	EACH	MISC	MISCELLANEOUS	SIM	SIMILAR
APPROX	APPROXIMATELY	EF	EACH FACE	MO	MASONRY OPENING	SM	SUCTION MANIFOLD
BK	BACK	EG	EXISTING GRADE	MOV	MOTOR OPERATED VALVE	SQ	SQUARE
BLDG	BUILDING	EJ	EXPANSION JOINT	N	NORTH	STA	STATION
BLK	BLOCK	EL	ELEVATION	NIC	NOT IN CONTRACT	STD DWG	STANDARD DRAWING
BM	BEAM/BENCH MARK	ELEC	ELECTRICAL	NO	NUMBER	SY	SQUARE YARDS
BOP	BOTTOM OF PIPE	EP	EDGE OF PAVEMENT	NTS	NOT TO SCALE	SYM	SYMMETRICAL
BOT	BOTTOM	EWC	ELECTRIC WATER COOLER	OD	OUTSIDE DIAMETER	TA	TOP OF ASPHALT
BRG	BEARING	EXIST	EXISTING	OPP	OPPOSITE	TAN	TANGENT
CATV	CABLE TELEVISION	FD	FLOOR DRAIN	PC	POINT OF CURVE	TC	TOP OF CONCRETE
CB	STORM CATCH BASIN/INLET	F-F	FACE-TO-FACE	PED	PEDESTAL	TG	TOP OF GRAVEL
CCY	CONCRETE CYLINDER PIPE	FF	FINISH FLOOR	PI	POINT OF INTERSECTION	THC	TOP OF HEADER CURB
CFM	CUBIC FEET PER MINUTE	FG	FINISH GRADE	PL/B	PLATE	THK	THICK/THICKNESS
CFS	CUBIC FEET PER SECOND	FL	FLOW LINE ELEVATION/FLANGE	POL	POINT ON LINE	TOC	TOP OF CURB
CI	CAST IRON	FOC	FACE OF CURB	ROW	RIGHT OF WAY	T.O.P.	TOP OF PIPE
CJ	CONSTRUCTION JOINT	FPS	FEET PER SECOND	PRC	POINT REVERSE CURVE	TOS	TOP OF STEEL
CL	CENTERLINE	FT	FOOT/FEET	PRV	PRESSURE REDUCING VALVE	TOW	TOP OF WALL
CL CONST	CENTERLINE OF CONSTRUCTION	GA	GAGE	PSF	POUNDS PER SQUARE FOOT	TP	TOP OF PAVEMENT
CLG	CEILING	GPM	GALLONS PER MINUTE	PSI	POUNDS PER SQUARE INCH	TYP	TYPICAL
CLR	CLEAR	HB	HOSE BIB	PT	POINT OF TANGENT	T&B	TOP AND BOTTOM
CMU	CONCRETE MASONRY UNIT	HC	HOLLOW CORE	PVC	POLY VINYL CHLORIDE	TW	TOP OF WALL
CO	CLEANOUT	HGL	HYDRAULIC GRADE LINE	Q	FLOW RATE	UE	UNDERGROUND ELECTRICAL
COA	CITY OF ALBUQUERQUE	HORIZ	HORIZONTAL	QTY	QUANTITY	V	VELOCITY
COL	COLUMN	HP	HIGH PRESSURE	R	RADIUS	VERT	VERTICAL
CONC	CONCRETE	IN	INCH	RCP	REINFORCED CONCRETE PIPE	VRT	VENT THROUGH ROOF
CONST	CONSTRUCTION	INV	INVERT	ROD	RESERVOIR OVERFLOW DRAIN	W	WEST
CP	CONTROL POINT	LB	POUND	RD	ROOF DRAIN	WC	WELL COLLECTOR
CY	CUBIC YARDS	LLH	LONG LEG HORIZONTAL	RT	RIGHT	WL	WATER LINE
DET	DETAIL	LLV	LONG LEG VERTICAL	S	SOUTH		
DI	DUCTILE IRON	LT	LIGHT/LEFT	SAS	SANITARY SEWER		
DIA	DIAMETER	MAX	MAXIMUM				
DM	DISCHARGE MANIFOLD	MFR	MANUFACTURER				
DN	DOWN						

GENERAL NOTES

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS 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 (REFERRED TO HEREAFTER AS THE STANDARD SPECIFICATIONS AS UPDATED THROUGH UPDATE NO. 6.)
- SEVEN (7) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTACT NEW MEXICO ONE-CALL SYSTEM, PH. 260-1990, FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- COORDINATE CONSTRUCTION ACTIVITIES WITH OTHER CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME AREA.
- ALL PERMANENT R.O.W. AND CONSTRUCTION EASEMENTS ON PRIVATE PROPERTY WILL BE OBTAINED BY THE CITY OF ALBUQUERQUE PRIOR TO THE BEGINNING OF CONSTRUCTION. AS APPLICABLE.
- WHEN ABUTTING NEW PAVEMENT TO EXISTING, SAWCUT EXISTING PAVEMENT TO A STRAIGHT LINE, AS REQUIRED, TO REMOVE ANY BROKEN OR CRACKED PAVEMENT AND MATCH NEW TO EXISTING.
- EXERCISE DUE CARE TO AVOID DISTURBING EXISTING UNDERGROUND UTILITIES. COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION.
- SEVEN (7) WORKING DAYS PRIOR TO CONSTRUCTION IN PAVED AREAS, OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING STREET.
- REPLACE ALL STREET STRIPING ALTERED OR DESTROYED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS TO EXISTING LOCATION OR AS INDICATED BY THIS PLAN SET.
- NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) CALENDAR DAYS PRIOR TO STARTING WORK SO THAT THE ENGINEER MAY TAKE NECESSARY MEASUREMENTS TO INSURE PRESERVATION OF SURVEY MONUMENTS. DO NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER. NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY SURVEY MONUMENTS THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT WILL 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, ADJUST, AT THE CONTRACTOR'S EXPENSE, THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- PLACE EXCAVATED MATERIALS AS APPROVED BY THE ENGINEER OR PROJECT ADMINISTRATOR.
- THE REMOVAL AND REPLACEMENT OF PRIVATE SIGNS AND OBSTRUCTIONS SHALL BE PERFORMED BY THE RESPECTIVE PROPERTY OWNERS UNLESS OTHERWISE NOTED. COORDINATION SHALL BE THE RESPONSIBILITY OF THE ENGINEER.
- WHERE TRENCHING EXPOSES EXISTING UTILITY LINES, THE CONTRACTOR IS RESPONSIBLE FOR SUPPORTING THE LINE DURING CONSTRUCTION AND ASSURE THAT IT IS BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- CONTRACTOR MUST COMPLY WITH CORPS OF ENGINEERS 404 PERMIT FOR THE PROJECT.
- BACKFILL AND COMPACT IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND SUPPLEMENTAL TECHNICAL SPECIFICATIONS.
- ANY AREA NOT PAVED OR LANDSCAPED WHICH IS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED WITH NATIVE GRASS PER CITY OF ABQ "SANDY SOILS" SPECIFICATION. THE COST OF SEEDING SHALL BE CONSIDERED INCIDENTAL TO THE WORK.
- ALL EXISTING REGULATORY SIGNS THAT NEED TO BE REMOVED, RELOCATED OR REINSTALLED WILL BE PERFORMED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT CONSTRUCTION COORDINATOR. NOTIFY THE CITY CONSTRUCTION COORDINATOR THREE (3) WORKING DAYS IN ADVANCE OF ANY REQUIRED WORK.
- REPLACE ALL TRAFFIC SIGNS REMOVED IN KIND TO ORIGINAL LOCATIONS OR AS INDICATED BY THIS PLAN SET. THE CONTRACTOR SHALL NOTIFY THE CITY CONSTRUCTION COORDINATOR THREE (3) WORKING DAYS IN ADVANCE OF ANY REQUIRED WORK.
- COORDINATE WITH CITY OF ALBUQUERQUE SEVEN (7) WORKING DAYS PRIOR TO ANY WORK NEEDING THE EXECUTION OF THE WATER VALVE SHUT-OFF AND TO OBTAIN A WATER SHUT-OFF PERMIT.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES, PAVEMENTS, PAVEMENT MARKINGS, CURB AND GUTTER, DRIVEPADS, WHEELCHAIR RAMPS, SIDEWALK, GATES FENCING, ANY OTHER IMPROVEMENTS DURING CONSTRUCTION EXCEPT FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS. REPAIR OR REPLACE DAMAGED IMPROVEMENTS PER COA STANDARDS AT CONTRACTOR'S EXPENSE.
- MAINTAIN A GRAFFITI-FREE WORK SITE. PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- PERFORM ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES IN ACCORDANCE WITH OSHA 29CFR1926.650 SUBPART P, OR CURRENT OSHA STANDARD.
- PRIOR TO THE REMOVAL OF ANY PAVEMENT, CURB AND GUTTER, AND OTHER IMPROVEMENTS, SURVEY TO ENSURE RESTORATION OF PROPER GRADES, CROWN AND ELEVATIONS. REMOVE AND REPLACE SHORT (LESS THAN 6') EXISTING SECTIONS OF PAVEMENT AND CURB AND GUTTER REMAINING AFTER PRIMARY REMOVALS ARE COMPLETED.
- MINOR ADJUSTMENTS TO HORIZONTAL AND VERTICAL LOCATIONS OF IMPROVEMENTS AND RELATED COMPONENTS IS CONSIDERED INCIDENTAL TO THE WORK.

ASCG  
INCORPORATED

6501 AMERICAS PARKWAY NE, SUITE 400  
ALBUQUERQUE, NEW MEXICO 87110-5372  
PHONE 505.247.0294 • FAX 505.242.4845

J:\COA\20355\BEAR CANYON\DWG\DWG\2035501.DWG\08-27-03.MDL

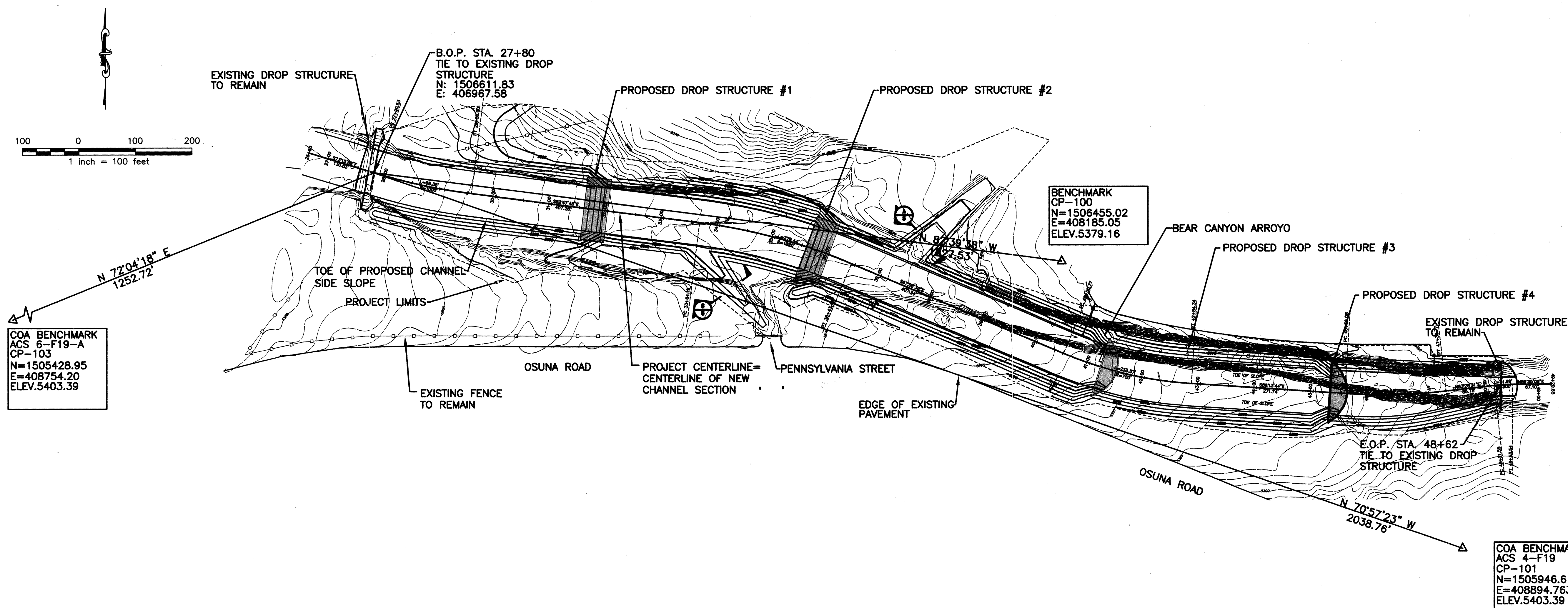
RECORD DRAWING

Date 12/13/04  
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT HYDROLOGY DIVISION			
TITLE: BEAR CANYON ARROYO WEST OF WYOMING GENERAL NOTES, ABBREVIATIONS AND LEGEND			
Design Review Committee APPROVED SEP 16 2003	City Engineer Approval APPROVED SEP 16 2003 CITY ENGINEER	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 689502	Zone Map No. F-19	Sheet 2	Of 13



SCANNED BY  
MESA REPRO



**ASCG**  
INCORPORATED

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PHONE 505 247 0294 • FAX 505 242 4811

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CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
HYDROLOGY DIVISION

TITLE: BEAR CANYON ARROYO  
WEST OF WYOMING  
PROJECT LAYOUT PLAN

Design Review Committee	City Engineer Approval	Update
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SEP 16 2003  
CITY ENGINEER

City Project No.	689502	Zone Map No.	F-19
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**THIS SHEET SUPERSEDED BY  
SIMILAR SHEET MARKED  
"REDRAWN FOR RECORD PURPOSES"**

[illegible]

EXISTING DROP STRUCTURE TO REMAIN

B.O.P. STA. 27+80  
TIE TO EXISTING DROP STRUCTURE  
N: 1506611.83  
E: 406967.58

PROPOSED DROP STRUCTURE #1

PROPOSED DROP STRUCTURE #2

200' OF SILT FENCE AND 2 SIGNS

BENCHMARK CP-100  
N=1506455.02  
E=408185.05  
ELEV.5379.16

BEAR CANYON ARROYO

PROPOSED DROP STRUCTURE #3

PROPOSED DROP STRUCTURE #4

EXISTING DROP STRUCTURE TO REMAIN

E.O.P. STA. 48+62  
TIE TO EXISTING DROP STRUCTURE

OSUNA ROAD

PENNSYLVANIA STREET

EDGE OF EXISTING PAVEMENT

TOE OF PROPOSED CHANNEL SIDE SLOPE

PROJECT LIMITS

PROJECT CENTERLINE = CENTERLINE OF NEW CHANNEL SECTION

COA BENCHMARK ACS 6-F19-A  
CP-103  
N=1505428.95  
E=408754.20  
ELEV.5403.39

COA BENCHMARK ACS 4-F19  
CP-101  
N=1505946.61  
E=408894.763  
ELEV.5403.39

100 0 100 200  
1 inch = 100 feet

N 72°04'18" E  
1252.72

N 82°39'38" W  
1427.53

N 70°57'23" W  
2038.76

6501 AMERICAS PARKWAY NE, SUITE 400  
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Date 12/13/04  
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

Subject No. 689502

Zone Map No.  
F-19

Sheet 3 Of 13

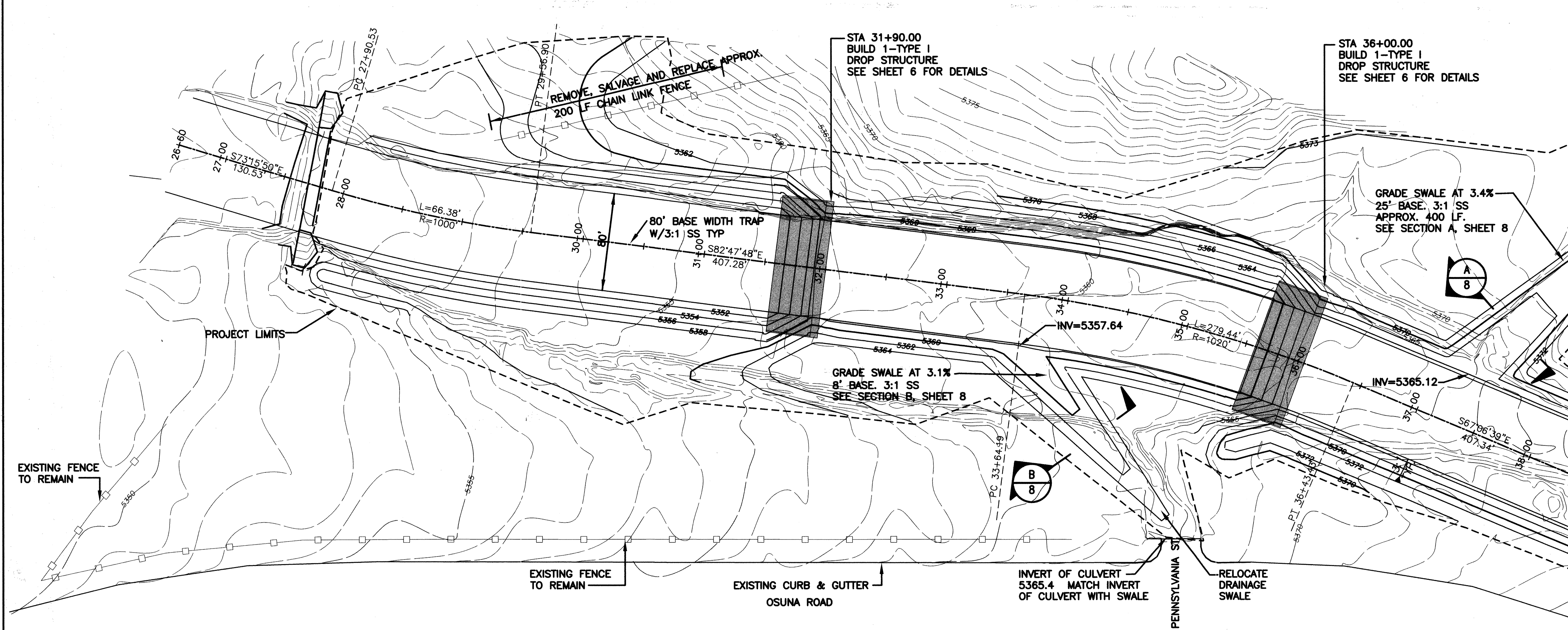
A	12/13/04	REPLACE 10" WL TO PROVIDE REGD. COVER @
		CHANNEL CROSSING. ADD FH AT USINA ROAD.
A	12/13/04	ADD 200' OF SILT FENCE WITH 2 SIGNS
A	12/13/04	ADD EARTHEN BERM
A	12/13/04	ADD SILT FENCE
NO.	DATE	REMARKS
REVISED		
DESIGN		
DESIGNED BY BC, PR		
DRAWN BY RL		
CHECKED BY PR		
		DATE 08/03
		DATE 08/03
		DATE 08/03

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
HYDROLOGY DIVISION

TITLE: BEAR CANYON ARROYO  
WEST OF WYOMING  
PROJECT LAYOUT PLAN

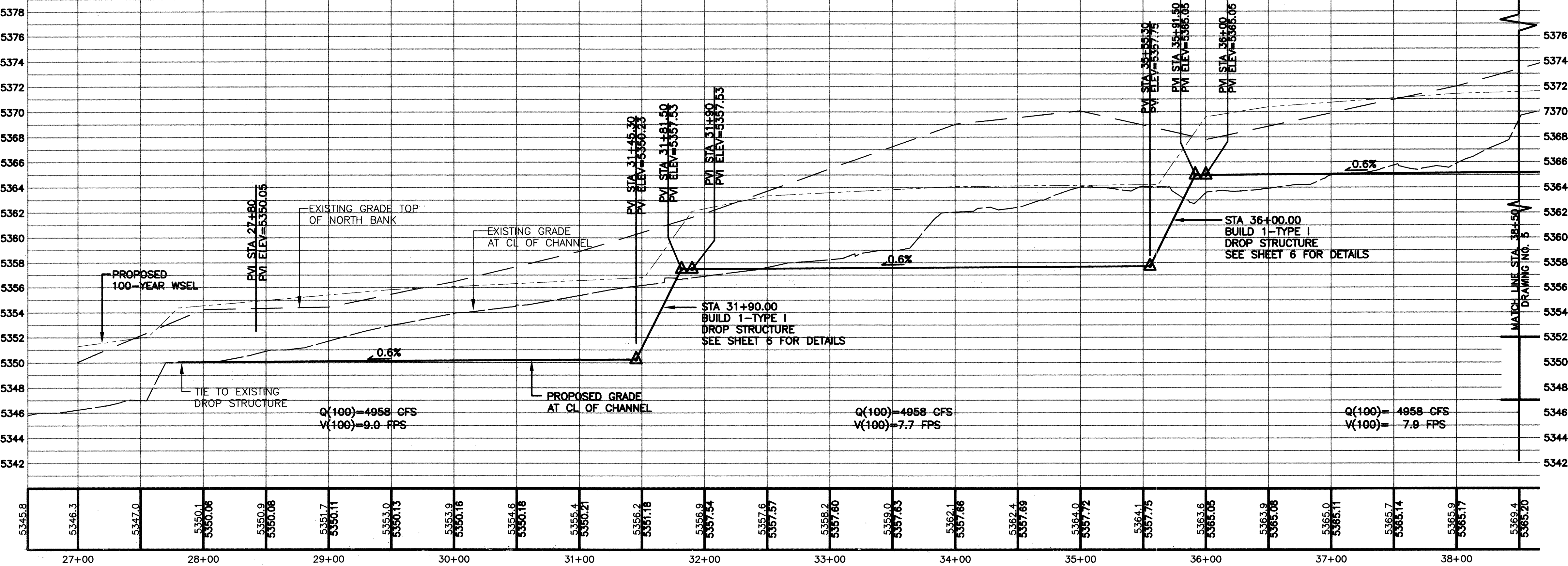
Design Review Committee	City Engineer Approval	Last Design Update _____ _____ _____ _____ _____	Mo./Day/Yr.	Mo./Day/Yr.			
City Project No.	689502	Zone Map No.	E-19	Sheet	3	Of	13





## NOTES

- EXISTING CONTOURS ARE AT 1' INTERVALS.
- PROPOSED CONTOURS ARE SHOWN AT 2' INTERVALS.
- EXISTING CHANNEL HAS CONCRETE RUBBLE ON THE SIDE SLOPES AND BOTTOM. RUBBLE SHALL BE BURIED IN BOTTOM AND SIDES OF NEW CHANNEL. MOVING OF CONCRETE RUBBLE FROM EXISTING CHANNEL TO NEW CHANNEL BOTTOM AND SIDES SHALL BE INCLUDED IN EXCAVATION, BACKFILL AND COMPACTION FOR CHANNELS.
- FOR CROSS SECTIONS, SEE SHEETS 9, 10 AND 11.
- ALL AREAS WITHIN THE GRADING LIMITS SHOWN, EXCEPT FOR THE CHANNEL BOTTOM SHALL BE RESEDED WITH NATIVE GRASS PER COA STD SPEC 1012.
- EARTH CHANNEL TO BE CONSTRUCTED IN ACCORDANCE WITH COA STD SPEC SECTION 601. ALL EXCESS MATERIAL SHALL BE DISPOSED OF BY CONTRACTOR, OFFSITE. EARTHWORK WILL BE MEASURED BY THE CUBIC YARD IN PLACE AT THE TIME OF EXCAVATION. PAYMENT FOR CUBIC YARDS OF EXCAVATION SHALL INCLUDE ALL EXCAVATION, HAULING, FILL, DISPOSAL, COMPACTION, WATER, AND ANY OTHER WORK NECESSARY TO COMPLETE THE EARTHWORK.



**ASCG**  
INCORPORATED

ENGINEERS - ARCHITECTS - SURVEYORS - PLANNERS  
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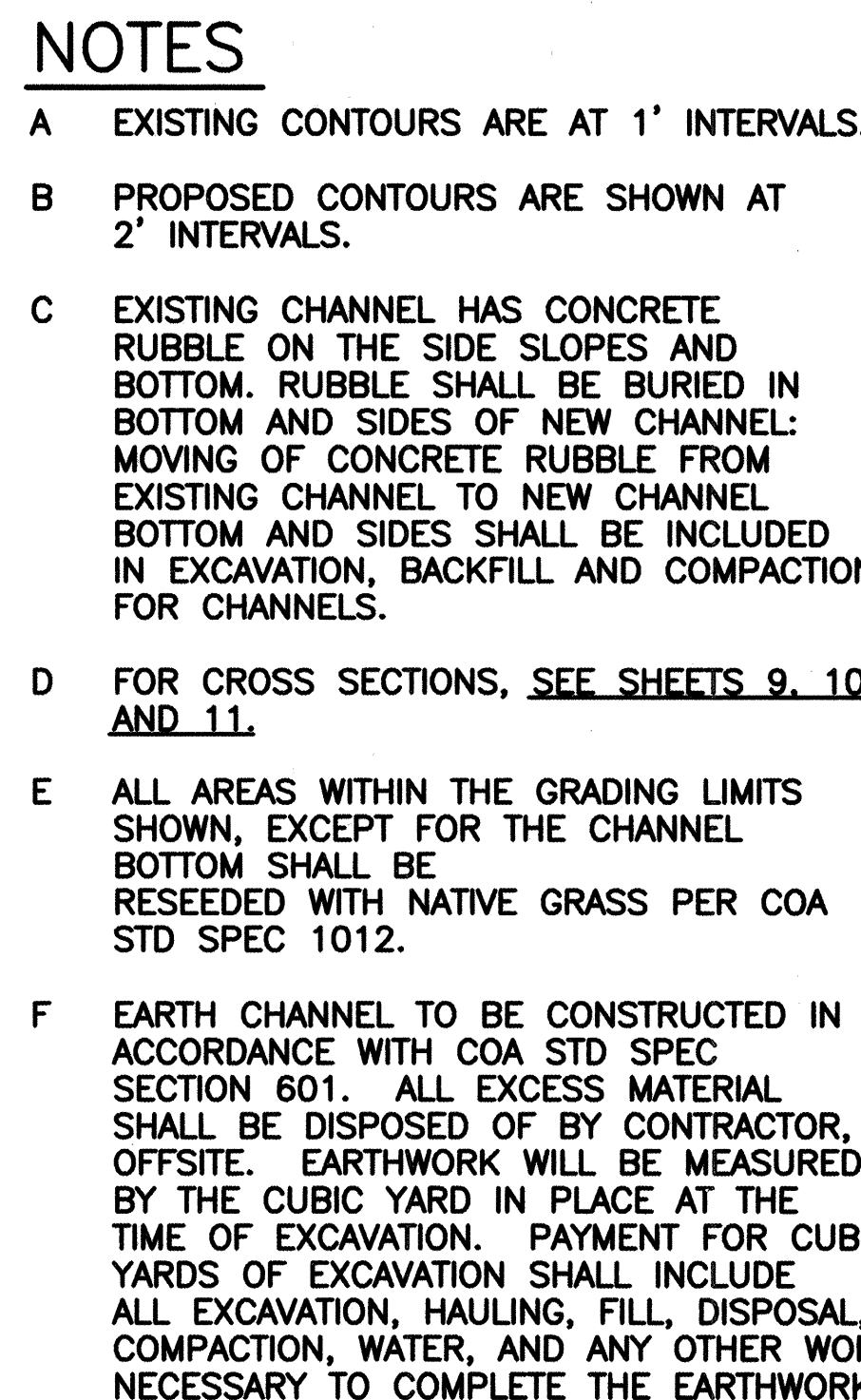
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT HYDROLOGY DIVISION			
TITLE: <b>BEAR CANYON ARROYO WEST OF WYOMING PLAN AND PROFILE - LOWER REACH</b>			
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED SEP 16 2003	APPROVED SEP 16 2003		
City Project No.	Zone Map No.	Sheet	Of
689502	F-19	4	13

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SCANNED BY  
MESA REPRO

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEERS SEAL	
CONTRACTOR	WORK	CITY OF ALBUQUERQUE STD. BRASS TABLET	DATE	FIELD NOTES	NO.	REVISIONS	DATE
STAMPED BY	ACCEPTANCE BY	STAMPED 4-F19, LOCATED ON THE NORTH CURB OF OSUNA RD. 92' WEST OF BRENDA ST. EL=5403.389 (SLD 1929)				DESIGN	DATE 08/03
FIELD LOCATION BY	DRAWINGS					DRAWN BY RL	DATE 08/03
CORRECTED BY	NO.					CHECKED BY PR	DATE 08/03
MICRO-FILM INFORMATION		CITY OF ALBUQUERQUE STD. BRASS TABLET		STAMPED 6-F19A, LOCATED ON THE NORTH CURB OF OSUNA RD. 238' EAST OF VISTA DEL ARROYO. EL=5346.22 (SLD 1929)			





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CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
HYDROLOGY DIVISION

TITLE: BEAR CANYON ARROYO  
WEST OF WYOMING  
PLAN AND PROFILE - LOWER REACH

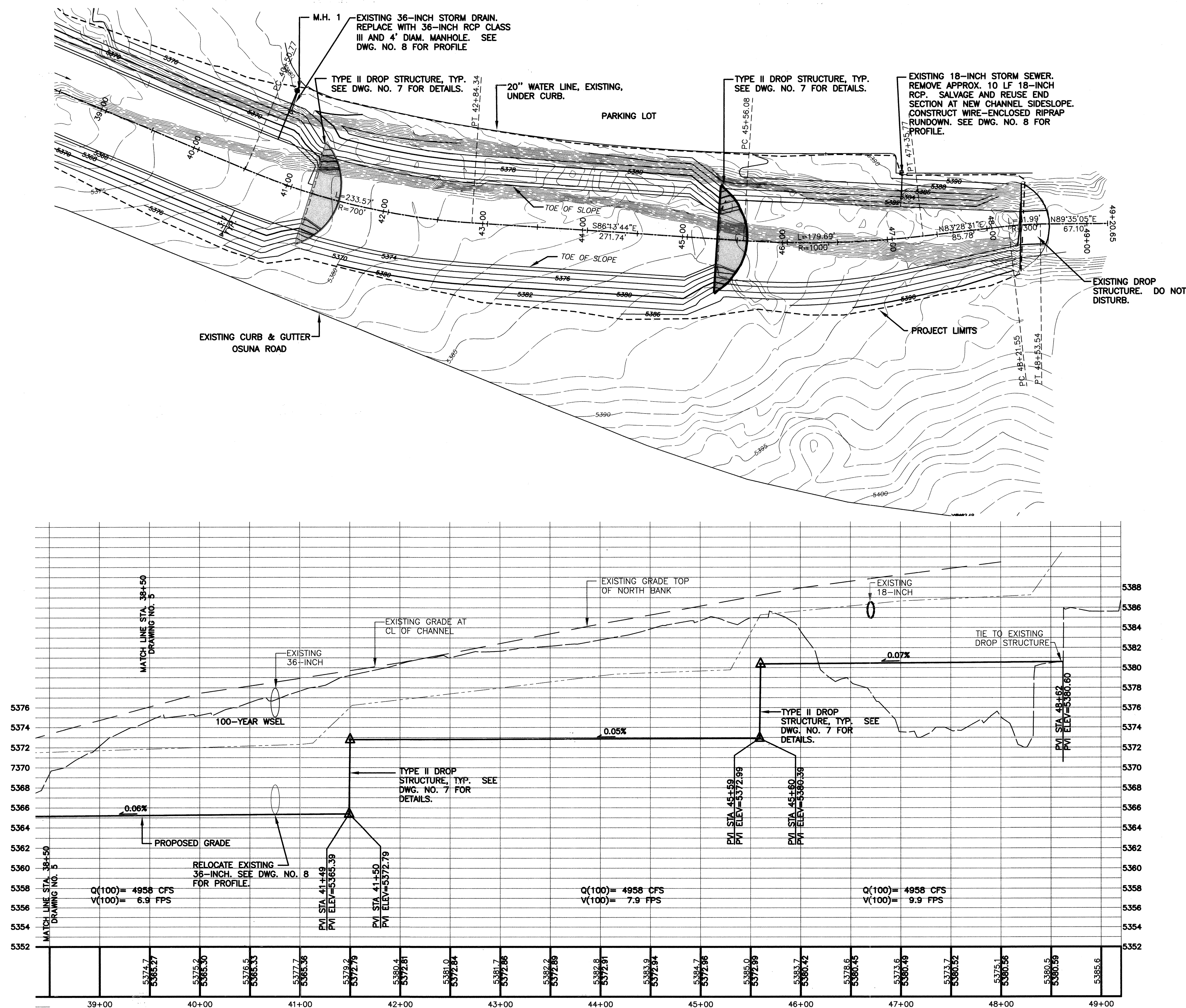
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 689502		Zone Map No. F-19	Sheet 4	Of 13

REDRAWN FOR RECORD PURPOSES

RECORD DRAWING

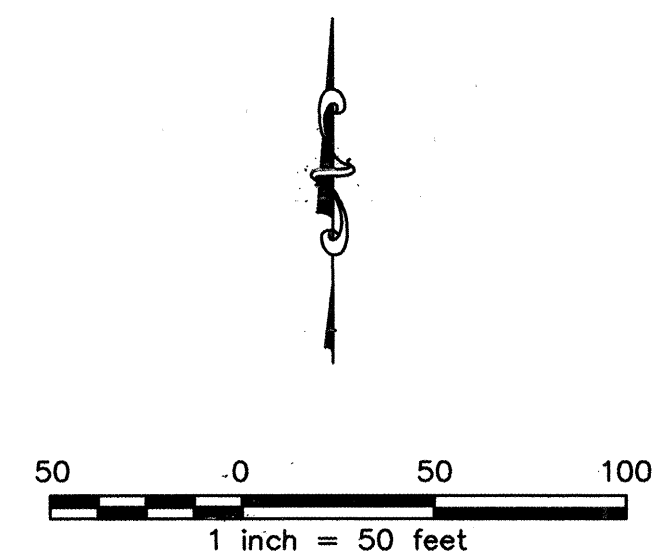
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- PROPOSED CONTOURS ARE SHOWN AT 2' INTERVALS.
- EXISTING CHANNEL HAS CONCRETE RUBBLE ON THE SIDE SLOPES AND BOTTOM. RUBBLE SHALL BE BURIED IN BOTTOM AND SIDES OF NEW CHANNEL. MOVING OF CONCRETE RUBBLE FROM EXISTING CHANNEL TO NEW CHANNEL BOTTOM AND SIDES SHALL BE INCLUDED IN EXCAVATION, BACKFILL AND COMPACTION FOR CHANNELS.
- FOR CROSS SECTIONS, SEE SHEETS 9, 10 AND 11.
- ALL AREAS WITHIN THE GRADING LIMITS SHOWN, EXCEPT FOR THE CHANNEL BOTTOM SHALL BE RESEDED WITH NATIVE GRASS PER COA STD SPEC 1012.
- EARTH CHANNEL TO BE CONSTRUCTED IN ACCORDANCE WITH COA STD SPEC SECTION 601. ALL EXCESS MATERIAL SHALL BE DISPOSED OF BY CONTRACTOR, OFFSITE. EARTHWORK WILL BE MEASURED BY THE CUBIC YARD IN PLACE AT THE TIME OF EXCAVATION. PAYMENT FOR CUBIC YARDS OF EXCAVATION SHALL INCLUDE ALL EXCAVATION, HAULING, FILL, DISPOSAL, COMPACTION, WATER, AND ANY OTHER WORK NECESSARY TO COMPLETE THE EARTHWORK.



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PHONE 505.247.0294 • FAX 505.242.4645

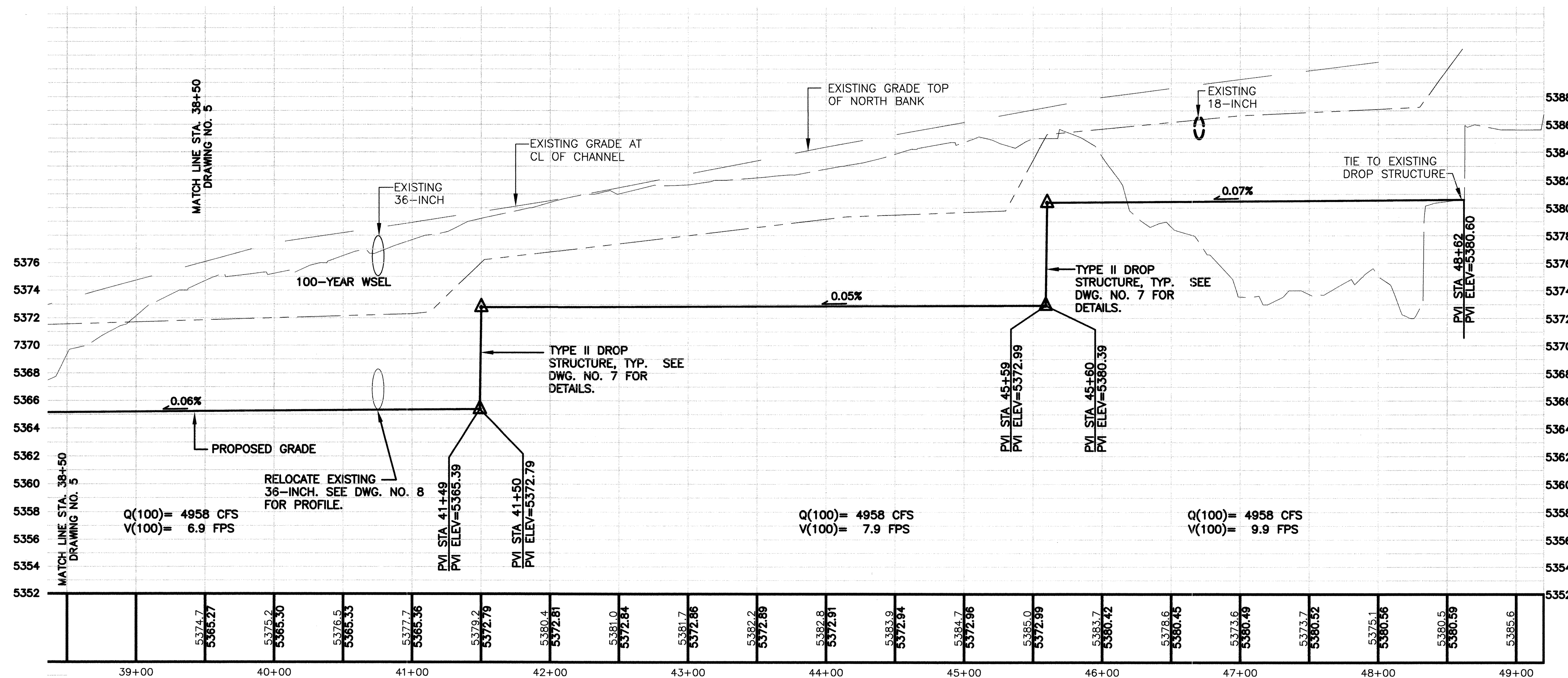
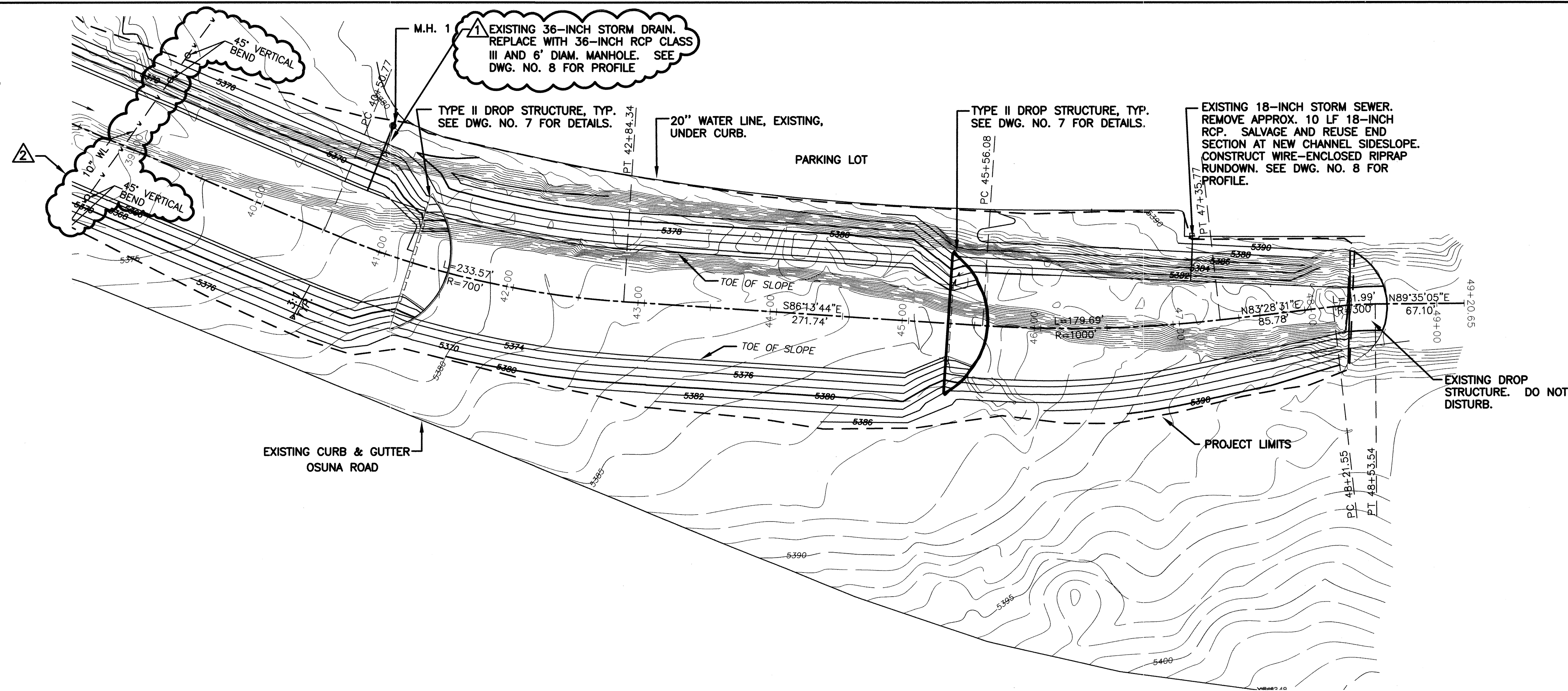
J:\COA\20355\BEAR CANYON\DWG\BEAR CANYON\_FINAL.DWG\09-10-03 MDJ

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT HYDROLOGY DIVISION	
TITLE: <b>BEAR CANYON ARROYO WEST OF WYOMING PLAN AND PROFILE - UPPER REACH</b>	
Design Review Committee APPROVED SEP 16 2003	City Engineer Approval APPROVED SEP 16 2003
City Project No. 689502	Zone Map No. F-19
Sheet 5	Of 13

**THIS SHEET SUPERSEDED BY  
SIMILAR SHEET MARKED  
"REDRAWN FOR RECORD PURPOSES"**

BENCH MARKS		AS BUILT INFORMATION	
CITY OF ALBUQUERQUE STD. BRASS TABLET	CONTRACTOR	CONTRACTOR	CONTRACTOR
STAMPED 4-F19, LOCATED ON THE NORTH CURB OF OSUNA RD, 92' WEST OF BRENDA ST. EL=5403.389 (SLD 1929)	WORK STATION	WORK STATION	WORK STATION
	INSPECTOR	INSPECTOR	INSPECTOR
	DATE	DATE	DATE
	REMARKS	REMARKS	REMARKS
	NO.	NO.	NO.
	DATE	DATE	DATE
	DESIGNED BY BC, PR	DESIGNED BY BC, PR	DESIGNED BY BC, PR
	DRAWN BY CAB	DRAWN BY CAB	DRAWN BY CAB
	CHECKED BY PR	CHECKED BY PR	CHECKED BY PR
	DATE 08/03	DATE 08/03	DATE 08/03
	DATE 08/03	DATE 08/03	DATE 08/03
	DATE 08/03	DATE 08/03	DATE 08/03





RECORD DRAWING  
Date 12/13/04

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

REDRAWN FOR RECORD PURPOSES

## NOTES

- EXISTING CONTOURS ARE AT 1' INTERVALS.
- PROPOSED CONTOURS ARE SHOWN AT 2' INTERVALS.
- EXISTING CHANNEL HAS CONCRETE RUBBLE ON THE SIDE SLOPES AND BOTTOM. RUBBLE SHALL BE BURIED IN BOTTOM AND SIDES OF NEW CHANNEL: MOVING OF CONCRETE RUBBLE FROM EXISTING CHANNEL TO NEW CHANNEL BOTTOM AND SIDES SHALL BE INCLUDED IN EXCAVATION, BACKFILL AND COMPACTION FOR CHANNELS.
- FOR CROSS SECTIONS, SEE SHEETS 9, 10 AND 11.
- ALL AREAS WITHIN THE GRADING LIMITS SHOWN, EXCEPT FOR THE CHANNEL BOTTOM SHALL BE RESEDED WITH NATIVE GRASS PER COA STD SPEC 1012.
- EARTH CHANNEL TO BE CONSTRUCTED IN ACCORDANCE WITH COA STD SPEC SECTION 601. ALL EXCESS MATERIAL SHALL BE DISPOSED OF BY CONTRACTOR, OFFSITE. EARTHWORK WILL BE MEASURED BY THE CUBIC YARD IN PLACE AT THE TIME OF EXCAVATION. PAYMENT FOR CUBIC YARDS OF EXCAVATION SHALL INCLUDE ALL EXCAVATION, HAULING, FILL, DISPOSAL, COMPACTION, WATER, AND ANY OTHER WORK NECESSARY TO COMPLETE THE EARTHWORK.

50 0 50 100  
1 inch = 50 feet

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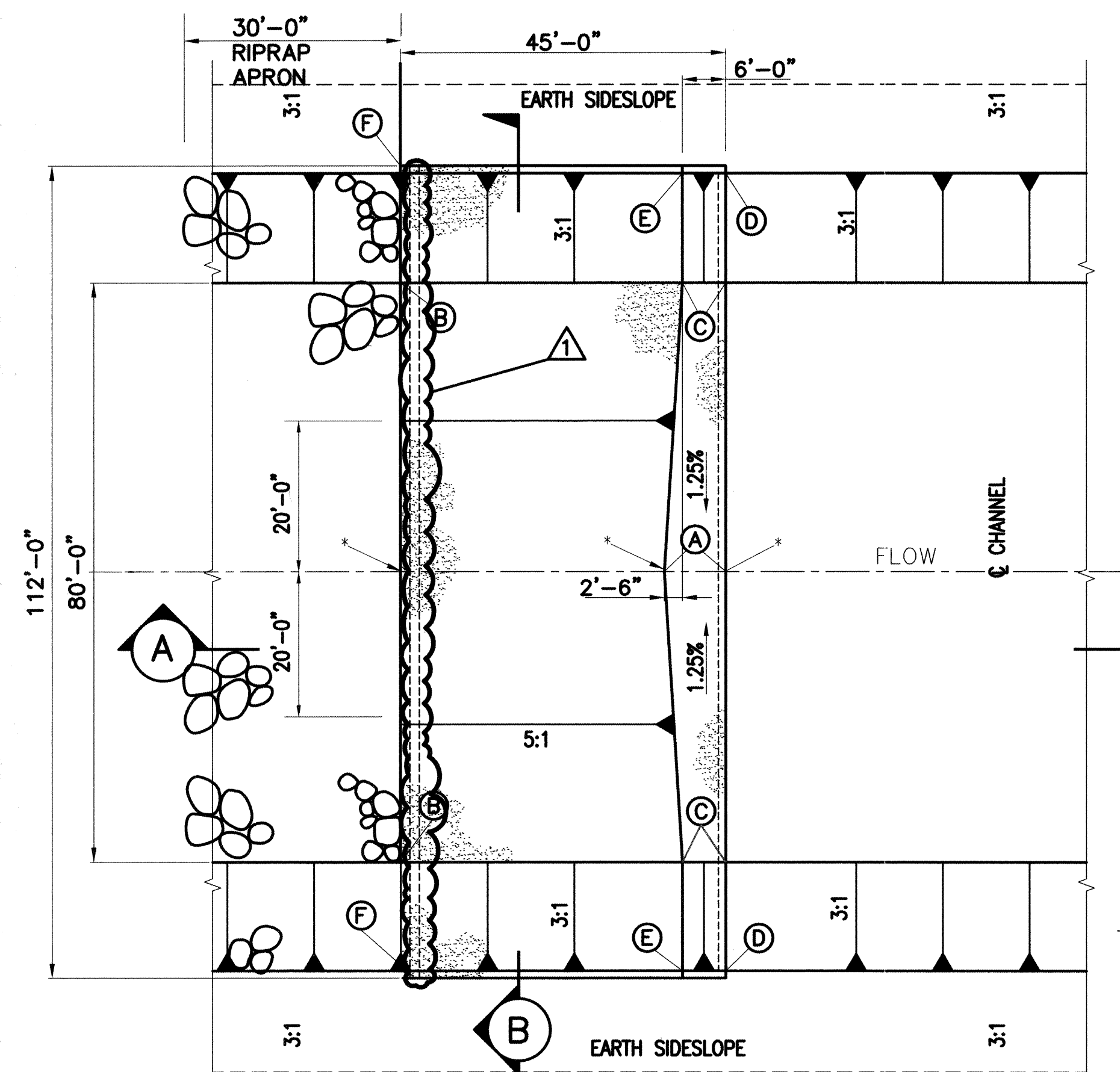
\\COA\20355\BEAR CANYON\DWG\DWG\BEAR CANYON FINAL.DWG\09-10-03.MDI

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT HYDROLOGY DIVISION	
TITLE: BEAR CANYON ARROYO WEST OF WYOMING PLAN AND PROFILE - UPPER REACH	
Design Review Committee	City Engineer Approval
Date	Mo./Day/Yr.
City Project No.	Zone Map No.
689502	F-19
Sheet	Of
5	13



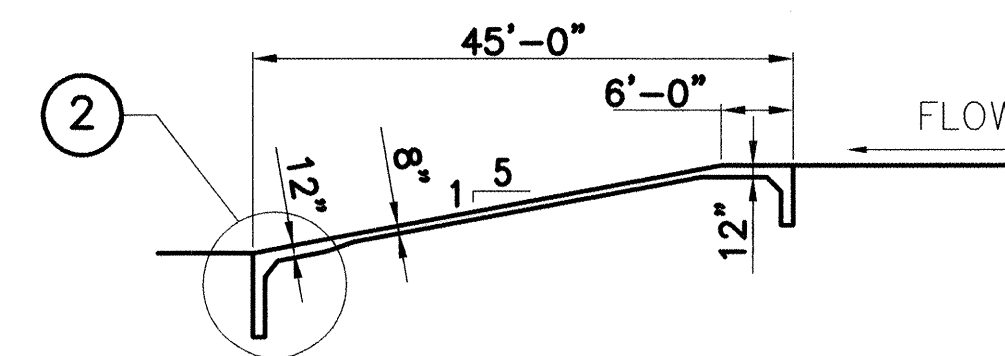


SCANNED BY  
MESA REPRO

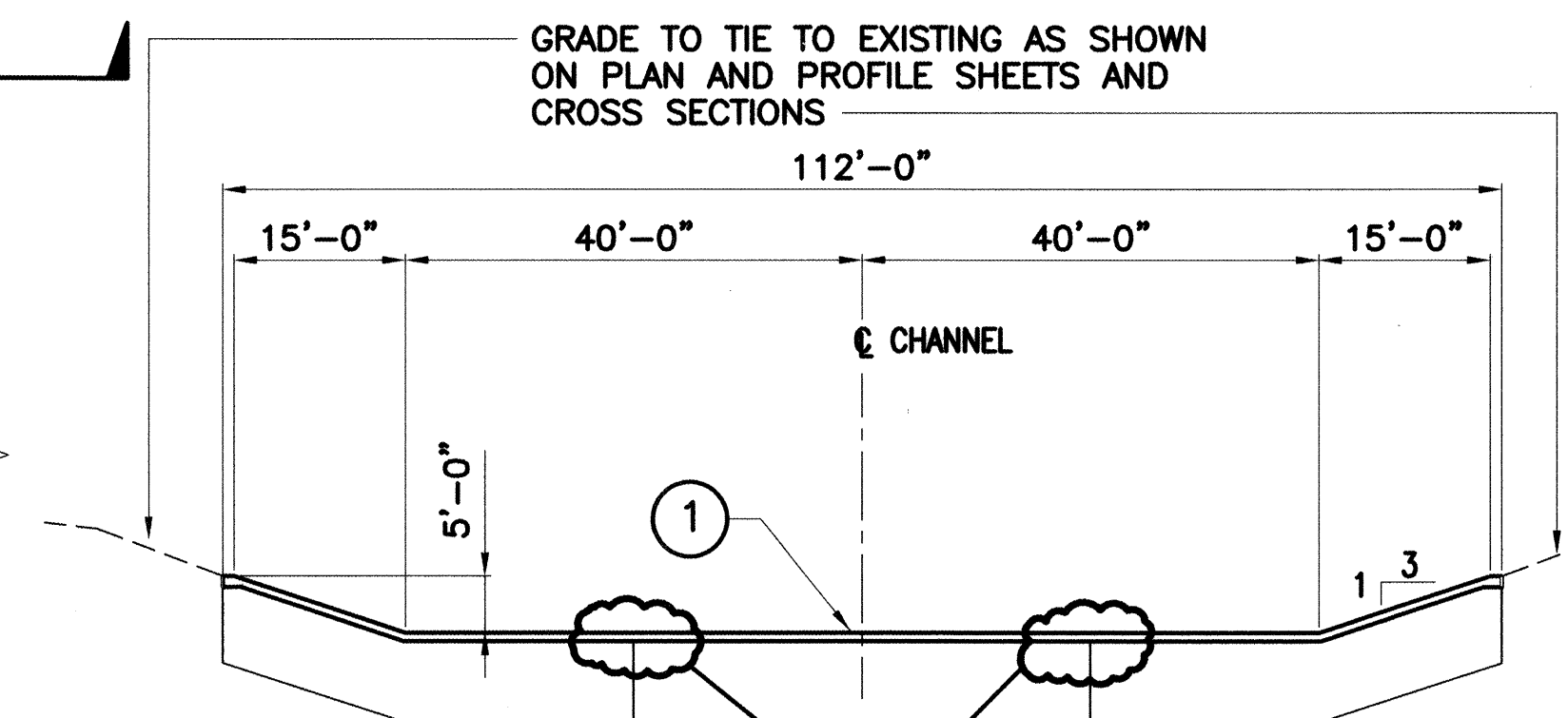


\* PVI LOCATIONS SHOWN ON PLAN  
AND PROFILE SHEETS

PLAN  
SCALE: 1/16"=1'-0"



**SECTION**  
**SCALE:** 1/16"=1'-0"

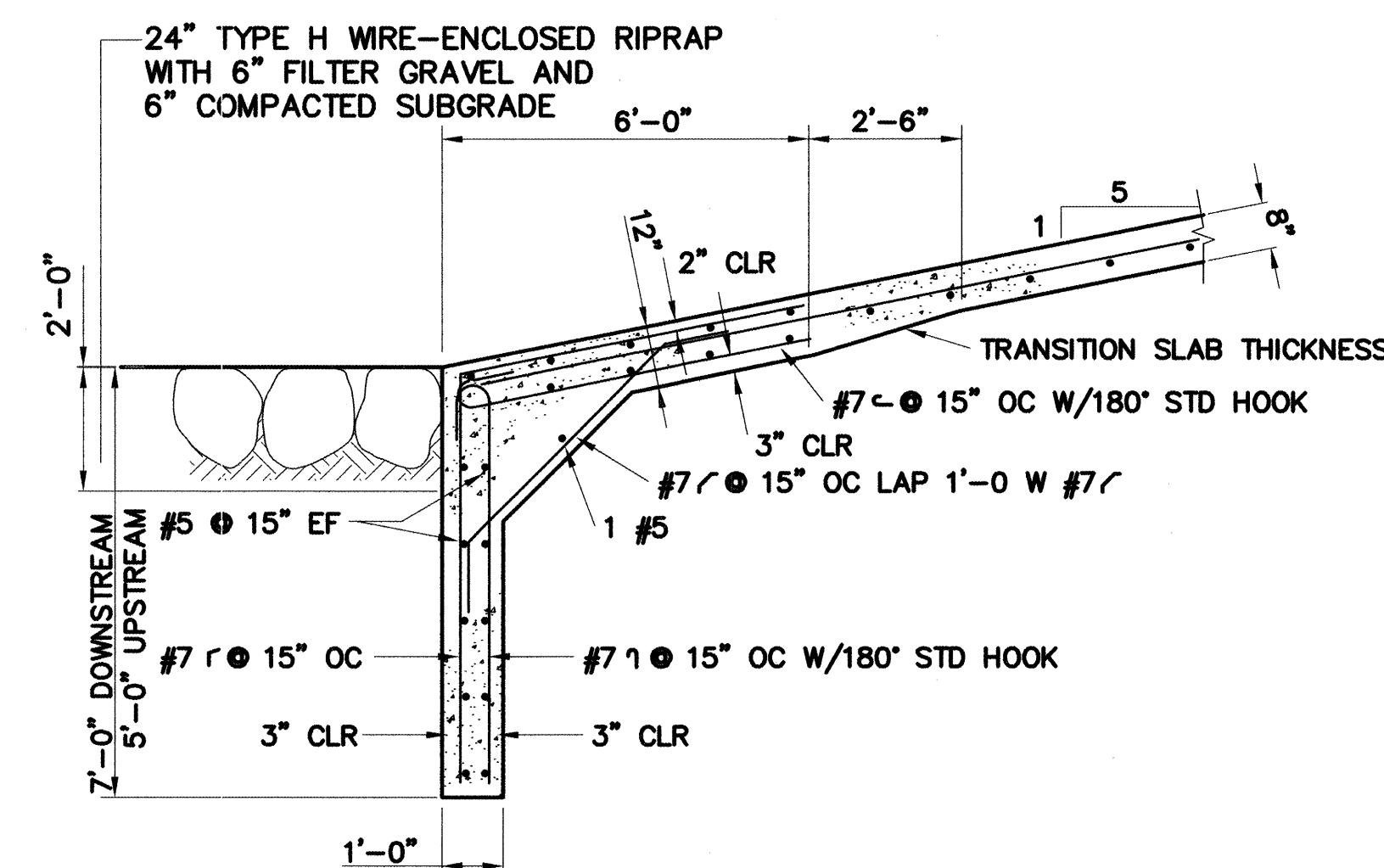


**SECTION**  
**SCALE:** 1/16"=1'-0"

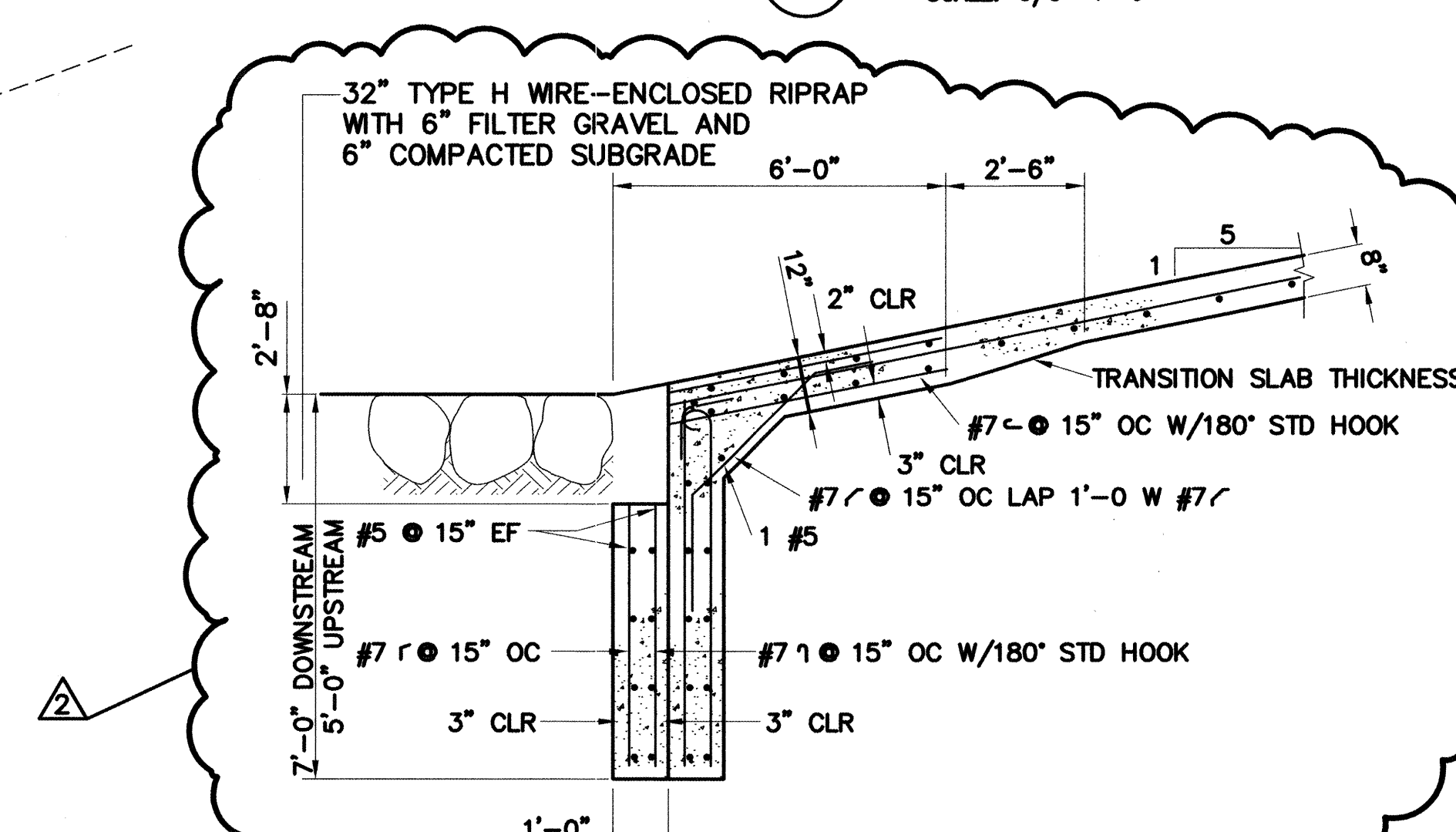
POINTS (ELEVATION) TABLE		
Point	Drop Crest Station	
	31+90	36+00
A	5357.53	5365.05
B	5350.23	5357.75
C	5358.03	5365.55
D	5363.03	5370.55
E	5363.03	5370.55
F	5355.23	5362.75
Drop Ht	7.30	7.30

CONSTRUCTION NOTES:

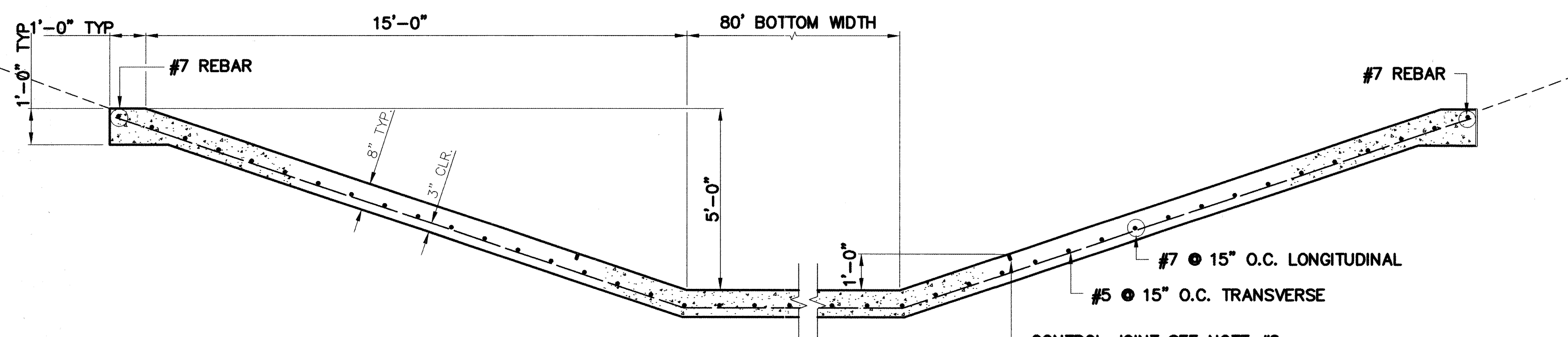
1. CONCRETE SHALL BE 4000 PSI 28 DAY STRENGTH FLYASH WITH MAX. AGGREGATE SIZE AS STATED IN THE SPECIFICATIONS.
2. ALL REINFORCING STEEL SHALL BE GRADE 60 DEFORMED BARS, UNLESS OTHERWISE SHOWN.
3. SPLICES IN REBAR IN TYPICAL CHANNEL SECTION SHALL BE 1'-0" OR GREATER FOR #3 & #4 BARS, 1'-3" FOR #5 BARS & 2'-9" FOR #6 BARS, UNLESS OTHERWISE SHOWN.
4. ALL STEEL SPACING IS GIVEN TO THE CENTERLINE OF THE BARS, UNLESS OTHERWISE SHOWN.
5. ALL EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER, UNLESS OTHERWISE SHOWN.
6. CHANNEL REBAR SHALL BE SUPPORTED ON 4 1/2" SAND CHAIRS AT A MAX. SPACING OF 5' PERPENDICULAR TO THE CHANNEL CENTERLINE.
7. MIN. SUBGRADE COMPACTION SHALL BE 90% PER ASTM D 1557.
8. SAW CUT CONTROL JOINT 1/4" WIDE, 2" DEEP AND APPLY POLYURETHANE SEALANT OR ENGINEER APPROVED EQUAL, TYPICAL BOTH SIDES.
9. ENGINEER SHALL APPROVE HORIZONTAL LOCATION OF DROP STRUCTURES BEFORE CONSTRUCTION.



2 — **DETAIL**  
SCALE: 3/8"=1'-0"



3 DS #2 DETAIL  
SCALE: 3/8"=1'-0"



1 DETAIL  
SCALE: 3/8"=1'-0"

RECORD DRAWING

Date 12/13/04  
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

REDRAWN FOR RECORD PURPOSES

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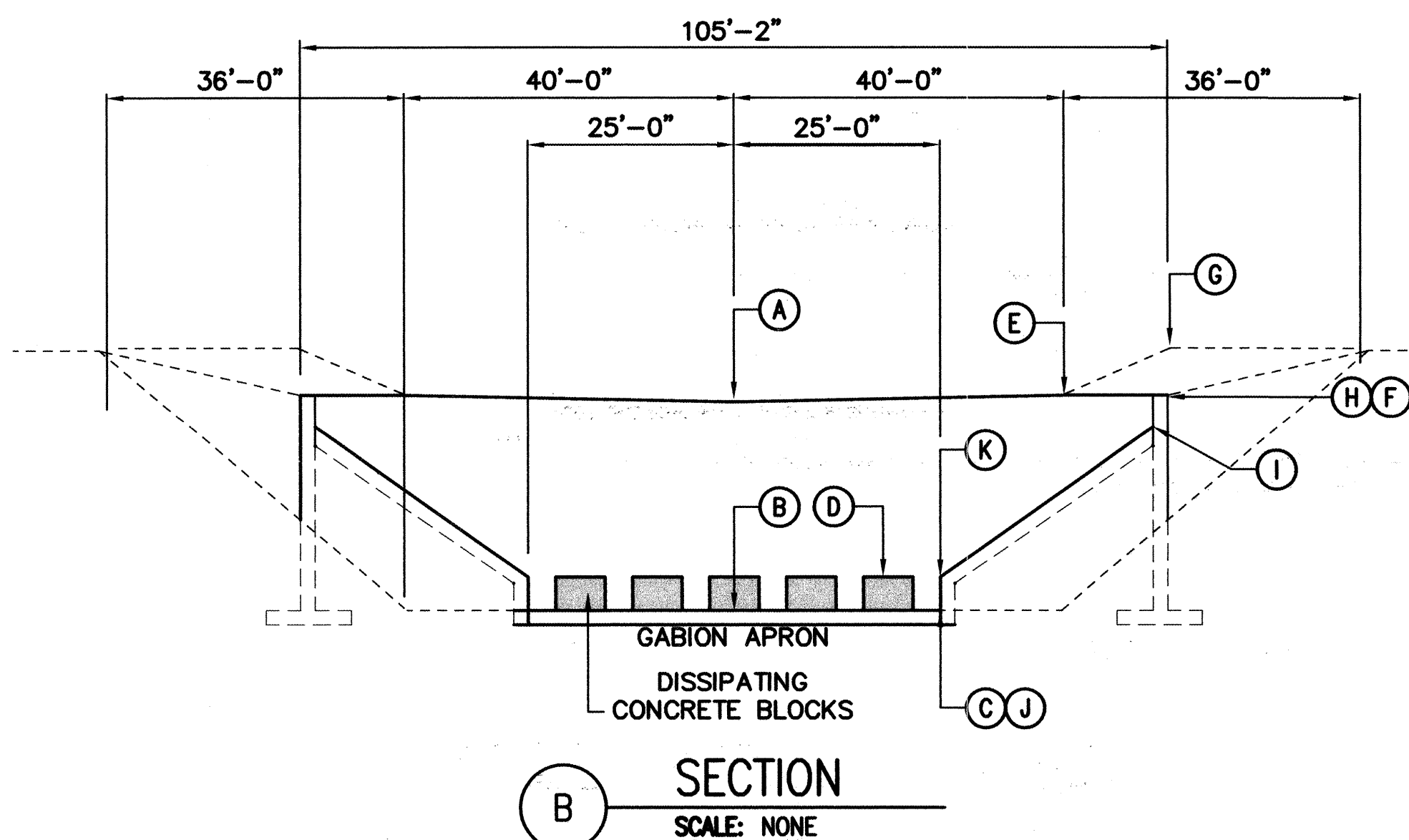
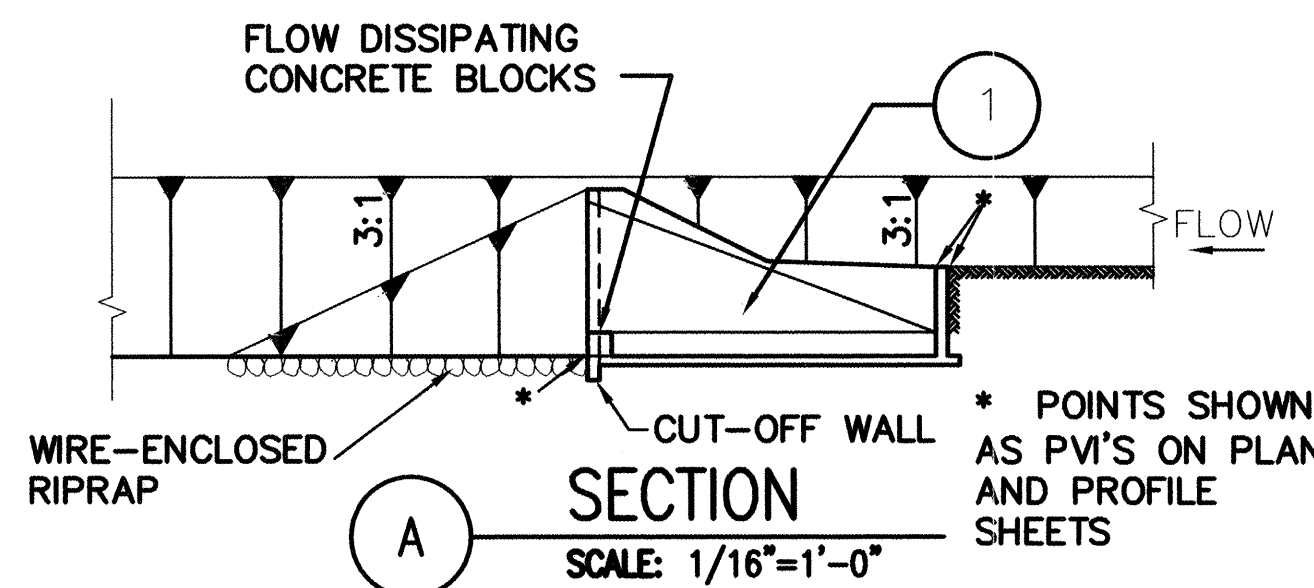
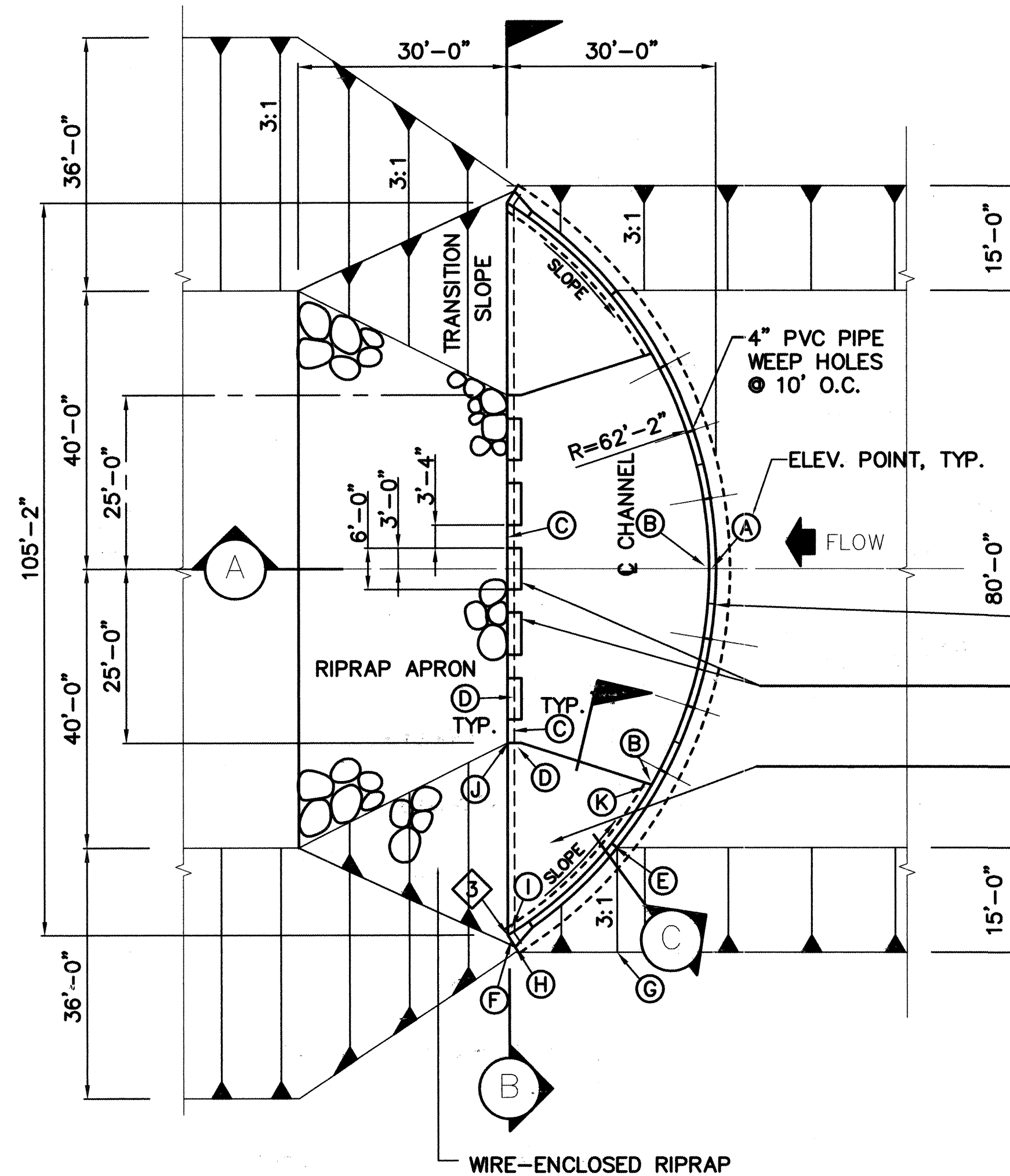
J:\COA\20355(BEAR CANYON)\DWG\DWG\BC DROP STRUCT STRAIGHT.DWG\09-09-03 MDJ

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
HYDROLOGY DIVISION

TITLE: BEAR CANYON ARROYO  
WEST OF WYOMING  
TYPE I DROP STRUCTURE DETAILS

Design Review Committee		City Engineer Approval		Last Design Update	Mo./Day/Yr.		Mo./Day/Yr.	
City Project No.		689502		Zone Map No.	F-19	Sheet	6	Of 13



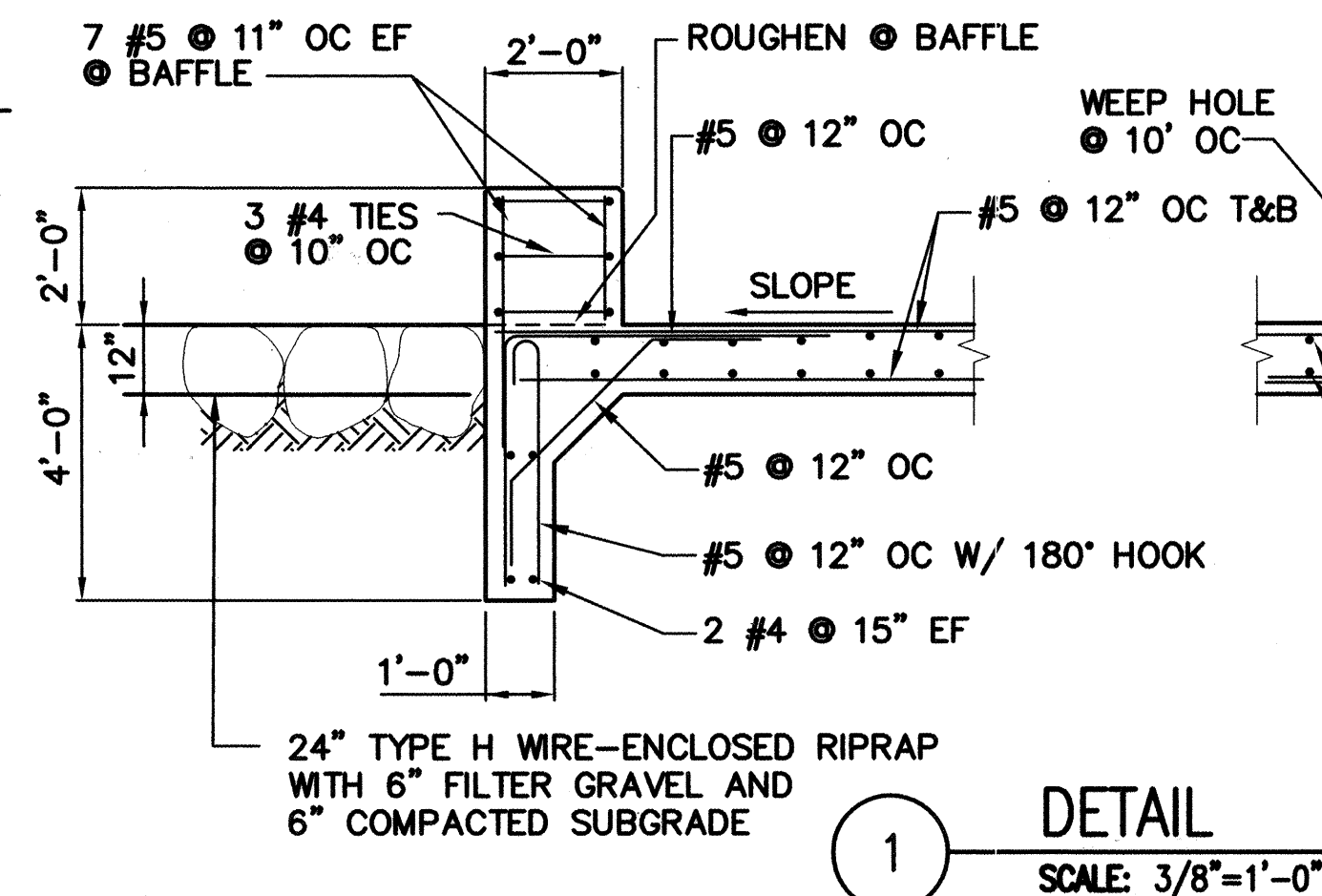


## TYPE 'H' RIPRAP GRADATION TABLE

MAXIMUM DIMENSIONS INCHES	% SMALLER
30	100
24	50-70
18	35-50
6	2-10

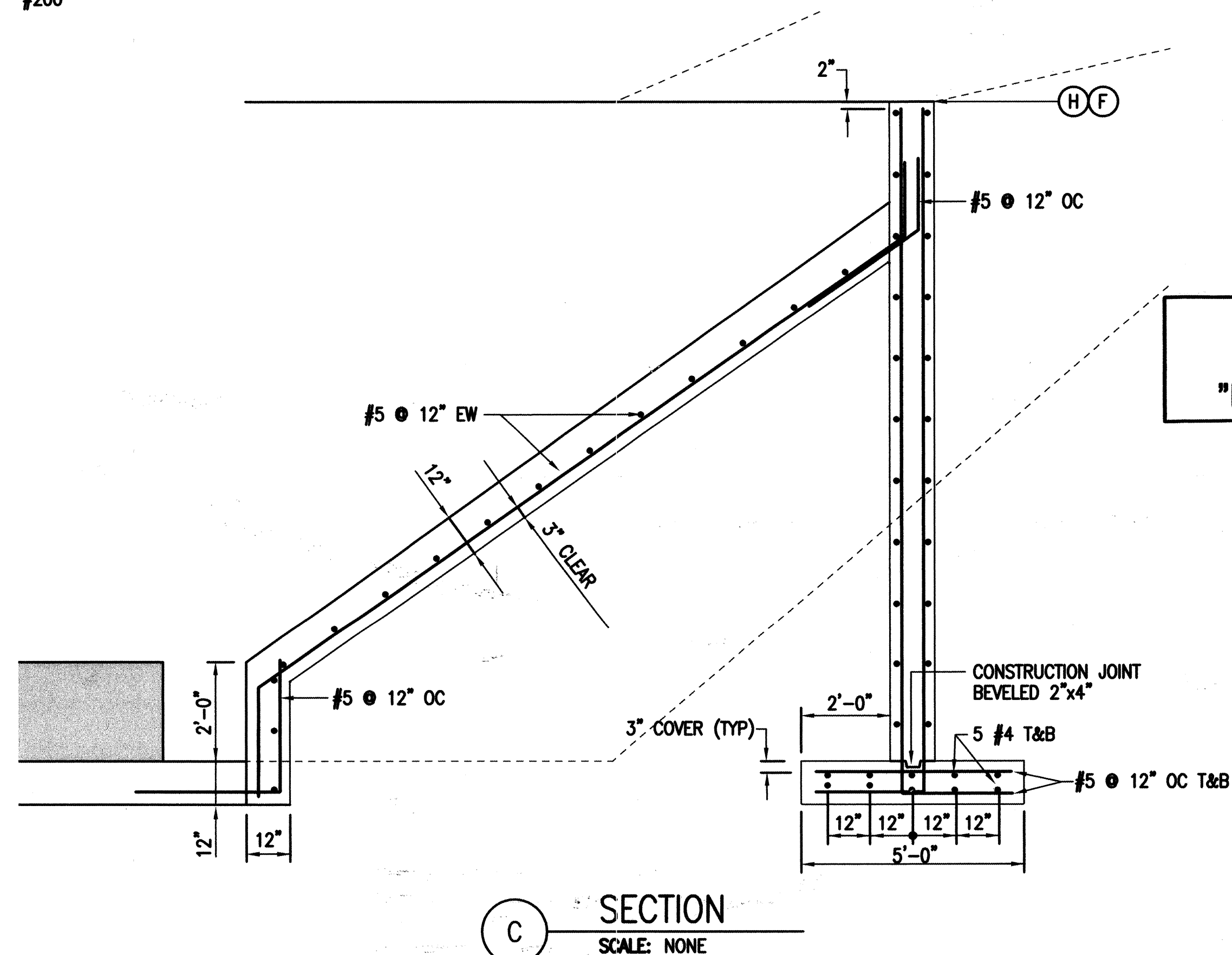
DETAIL 2  
SCALE: NONE

CUT EVERY OTHER HORIZ. BAR-TYP EF  
3/4" CHAMFER  
CRACK CENTRAL JOINT @ 20" MAX, SEE DETAIL 2  
FLOW DISSIPATING CONCRETE BLOCKS  
CONCRETE FILLET WITH #4 DOWELS @ 24" O.C. INTO WALL



## FILTER GRAVEL GRADATION TABLE

SIEVE SIZE	% PASSING
1 1/2"	100
3/4"	70-100
1/2"	60-80
3/8"	50-70
#4	40-60
#40	0-20
#200	0-6



## CONSTRUCTION NOTES:

1. CONCRETE SHALL BE 4000 PSI 28 DAY STRENGTH FLYASH WITH MAX. AGGREGATE SIZE AS STATED IN THE SPECIFICATIONS.
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3. SPLICES IN REBAR IN TYPICAL CHANNEL SECTION SHALL BE 1'-0" OR GREATER FOR #3 & #4 BARS, 1'-3" FOR #5 BARS & 2'-9" FOR #6 BARS, UNLESS OTHERWISE SHOWN.
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8. SAW CUT CONTROL JOINT 1/4" WIDE, 2" DEEP & APPLY POLYURETHANE SEALANT TYPICAL BOTH SIDES. SEE TYPICAL SECTION.
9. ENGINEER SHALL APPROVE HORIZONTAL LOCATION OF DROP STRUCTURES BEFORE CONSTRUCTION.

## POINT (ELEVATION) TABLE

Point	Drop Crest Station	
	41+50	45+60
A	5372.79	5380.39
B	5365.39	5372.99
C	5365.37	5372.97
D	5367.37	5374.97
E	5373.29	5380.89
F	5377.29	5384.89
G	5378.29	5385.89
H	5377.29	5384.89
I	5376.29	5383.89
J	5365.37	5372.97
K	5367.39	5374.99
Drop Ht	7.40	7.40

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SIMILAR SHEET MARKED  
"REDRAWN FOR RECORD PURPOSES"

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J:\COA\20355\BEAR CANYON\DWG\BC DROP STRUCT CURVE.DWG \09-09-03 MDJ

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT HYDROLOGY DIVISION			
TITLE: <b>BEAR CANYON ARROYO WEST OF WYOMING TYPE II DROP STRUCTURE DETAILS</b>			
Design Review Committee <b>APPROVED</b> SEP 16 2003	City Engineer Approval <b>APPROVED</b> SEP 16 2003	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 689502	Zone Map No. F-19	Sheet 7	Of 13



Pierce Runnels

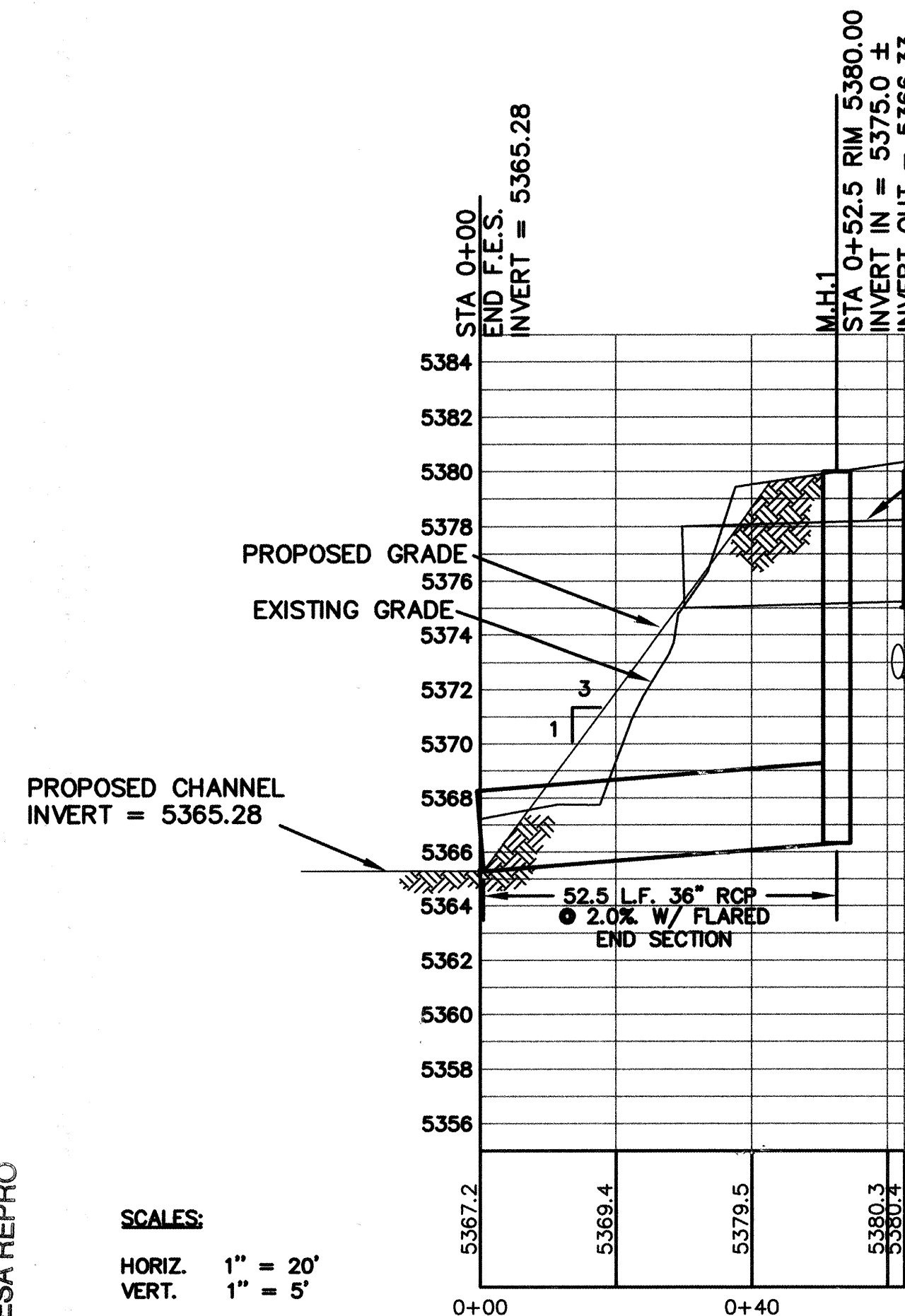




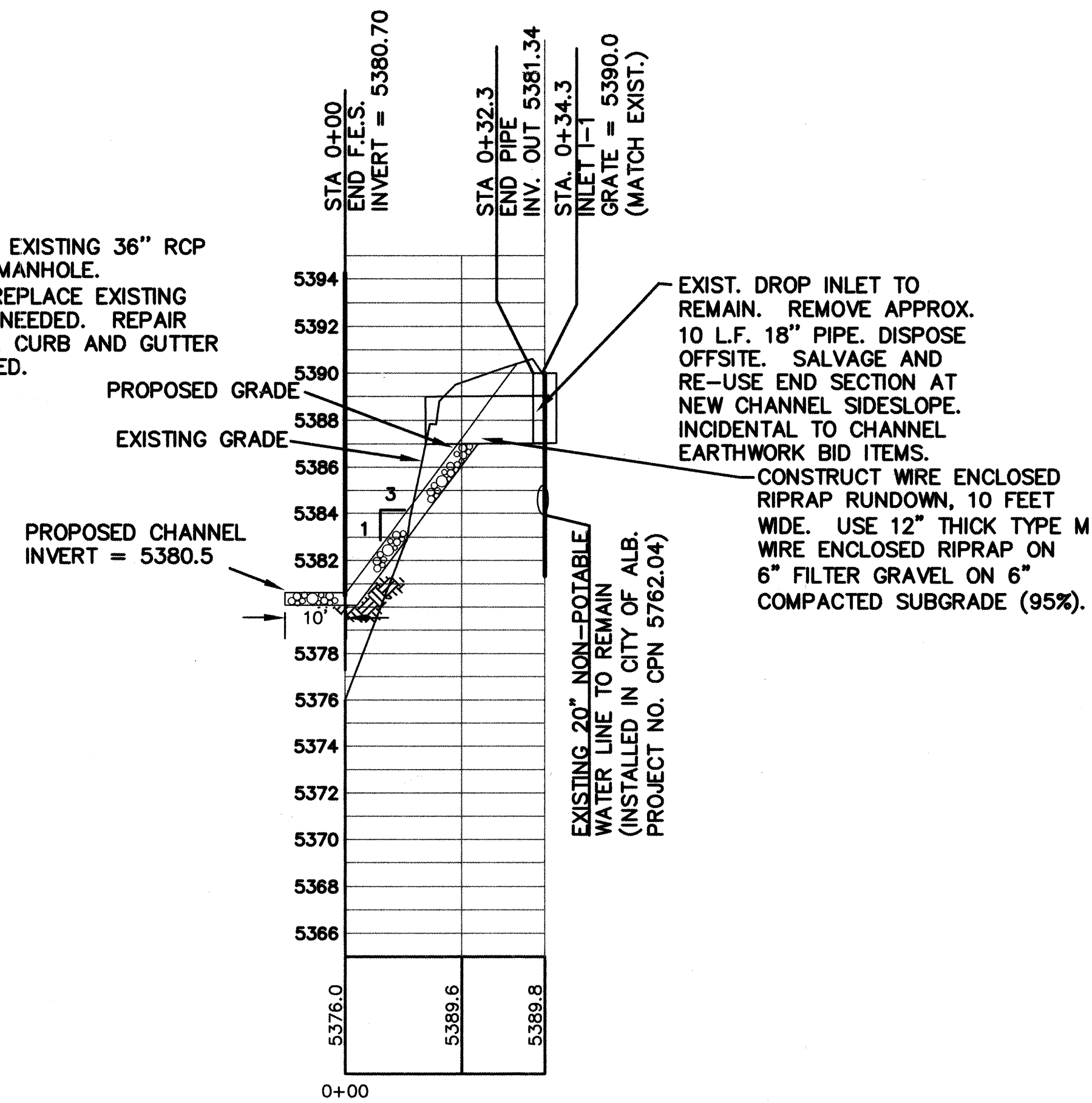
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MESA REPRO

## TYPE 'M' RIPRAP GRADATION TABLE

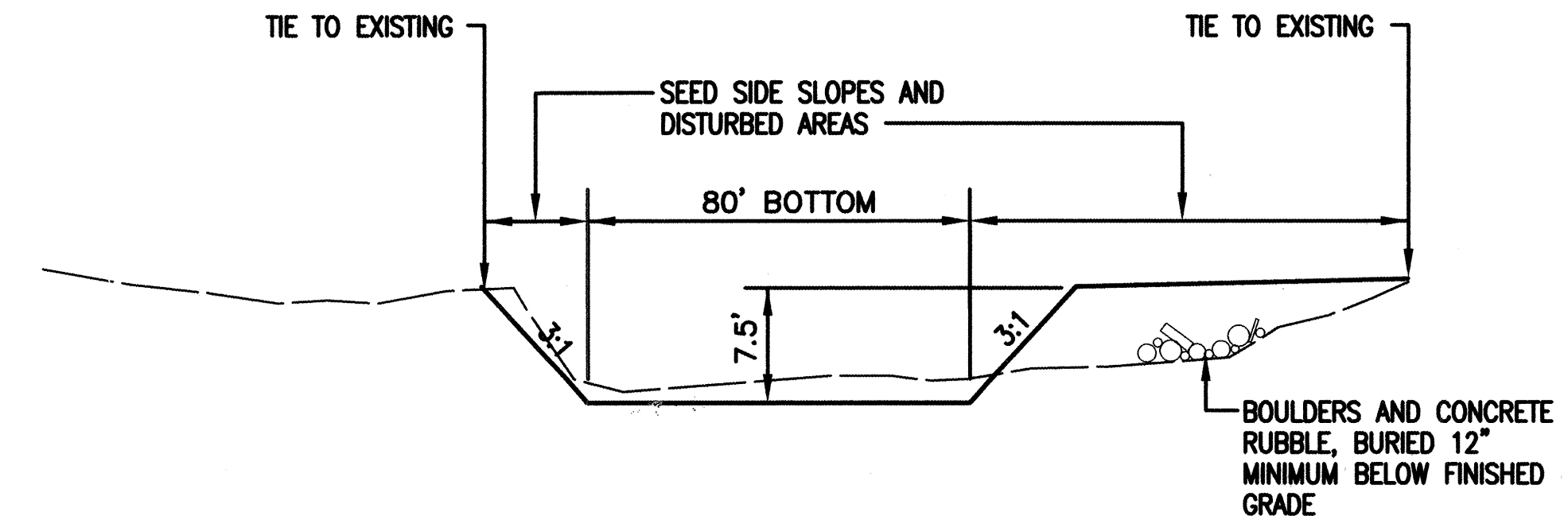
MAXIMUM DIMENSIONS INCHES	% SMALLER
18	100
12	35-55
10	3



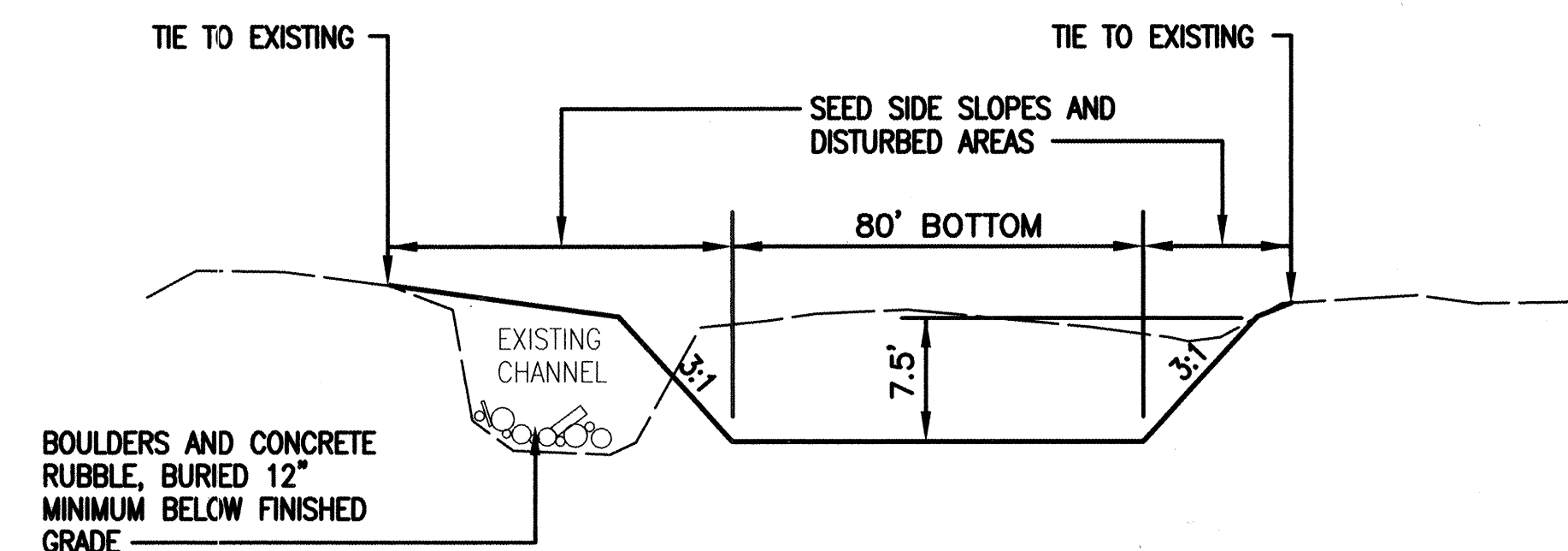
36" RCP PROFILE



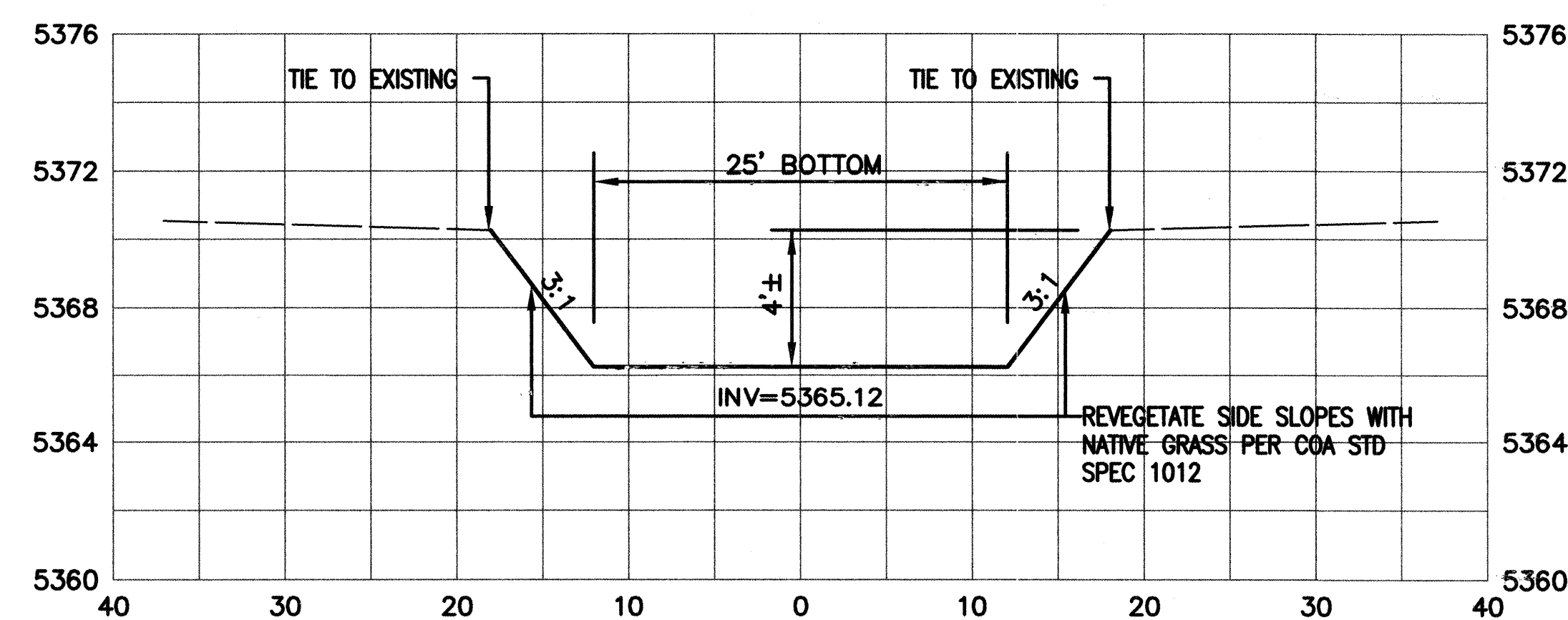
18" RCP PROFILE



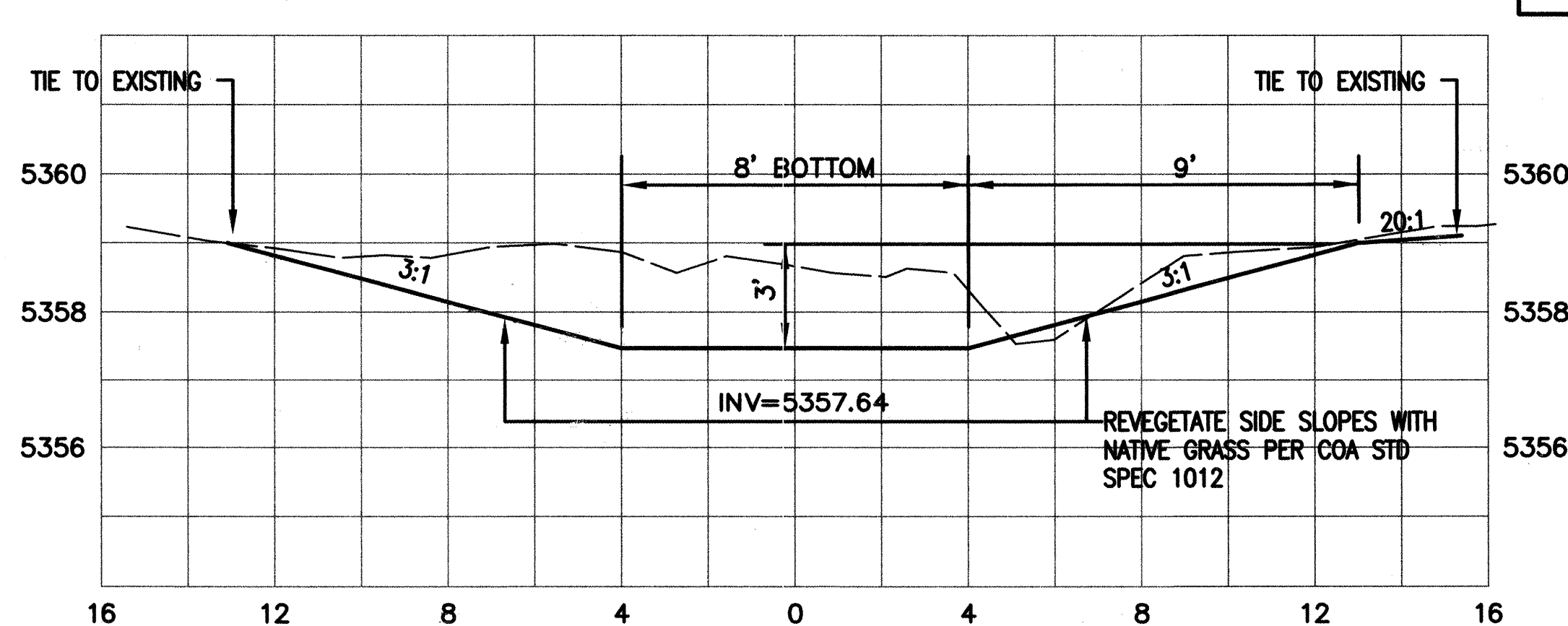
CHANNEL TYPICAL SECTION  
LOWER REACH



CHANNEL TYPICAL SECTION  
UPPER REACH



SECTION A-SIDE CHANNEL  
CL STA 37+25±~40' LT



SECTION B-SIDE CHANNEL  
CL STA 33+30~40' RT

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SIMILAR SHEET MARKED  
"REDRAWN FOR RECORD PURPOSES"

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J:\COA\20355\BEAR CANYON\DWG\DWG\BEAR CANYON PIPE PROFILES.DWG\09-10-03.MDI

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
HYDROLOGY DIVISION

TITLE: **BEAR CANYON ARROYO  
WEST OF WYOMING  
PIPE PROFILES**

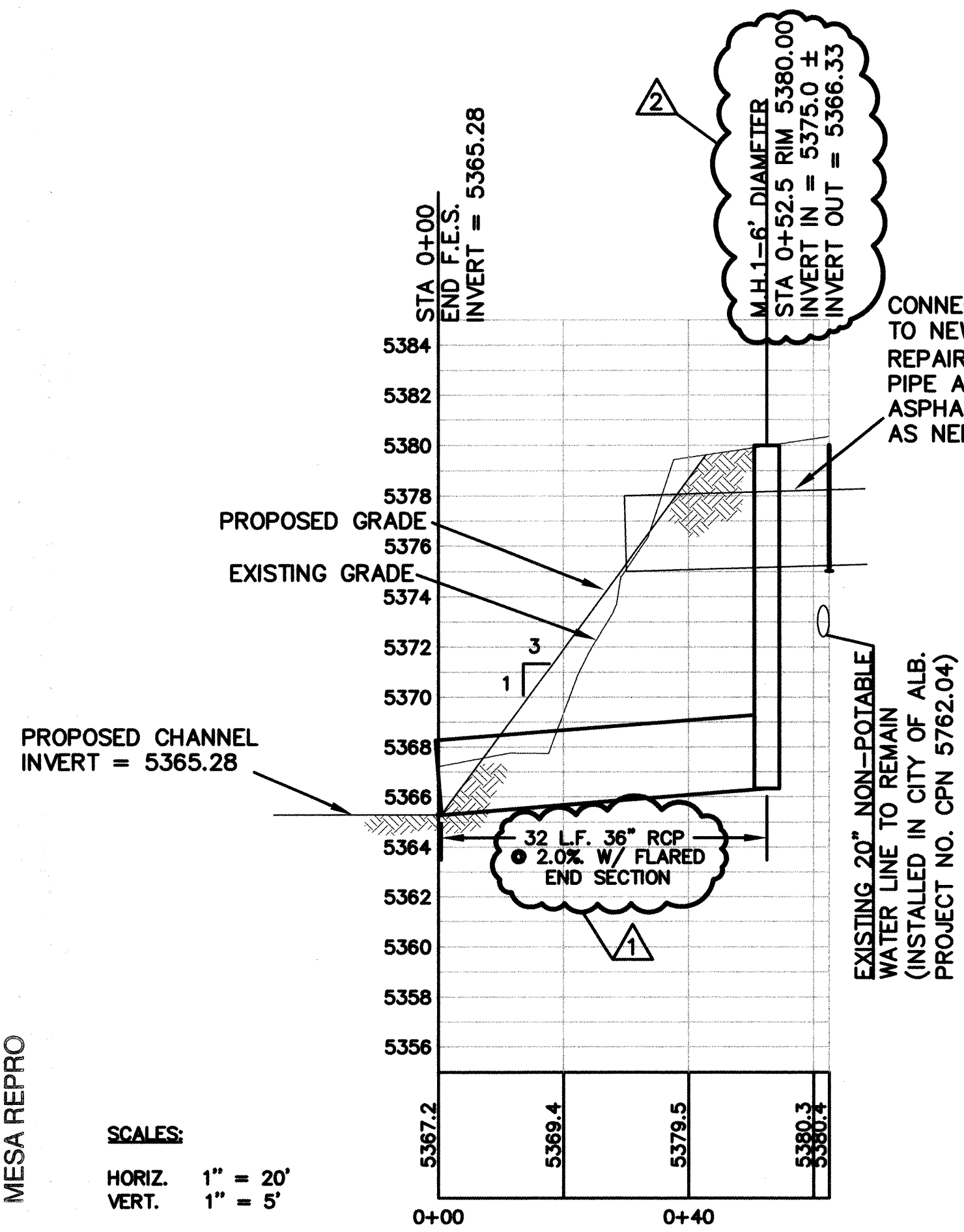
Design Review Committee: **APPROVED** SEP 16 2003  
City Engineer Approval: **APPROVED** SEP 16 2003  
Last Design Update: \_\_\_\_\_

City Project No. 689502 Zone Map No. F-19 Sheet 8 Of 13

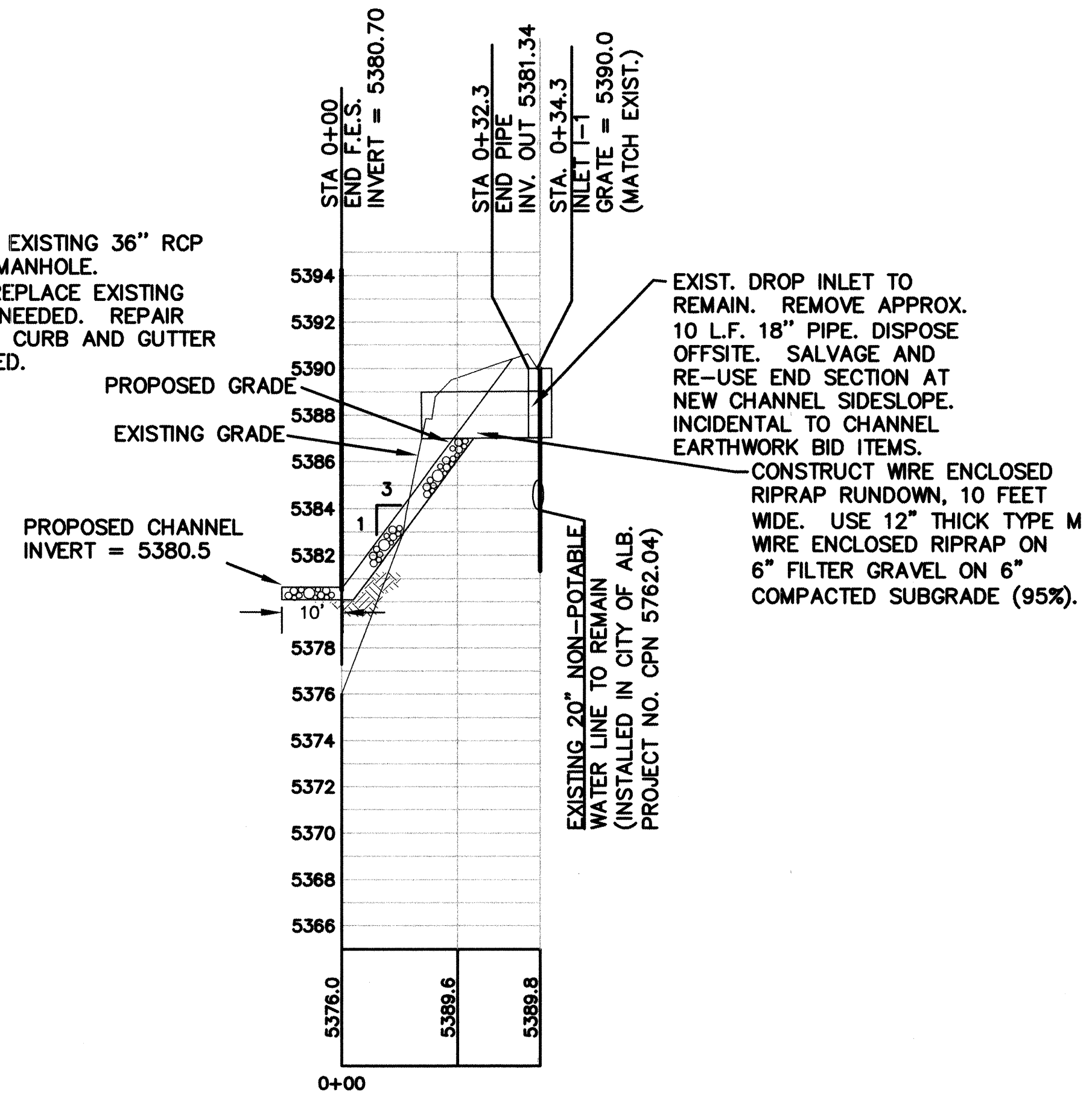
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INSPECTOR'S ACCEPTANCE BY	INSPECTOR'S VERIFICATION BY	DATE	NO.	DATE	NO.	DATE	NO.
DRAWINGS CORRECTED BY	RECORDED BY	DATE	NO.	DATE	NO.	DATE	NO.
MICRO-FILM INFORMATION		REVISIONS		DESIGN		DESIGNED BY BC, PR	
DATE		NO.		NO.		DATE 06/03	
NO.		NO.		NO.		DRAWN BY RL	
NO.		NO.		NO.		DATE 06/03	
NO.		NO.		NO.		CHECKED BY PR	
NO.		NO.		NO.		DATE 06/03	
NO.		NO.		NO.		NO.	



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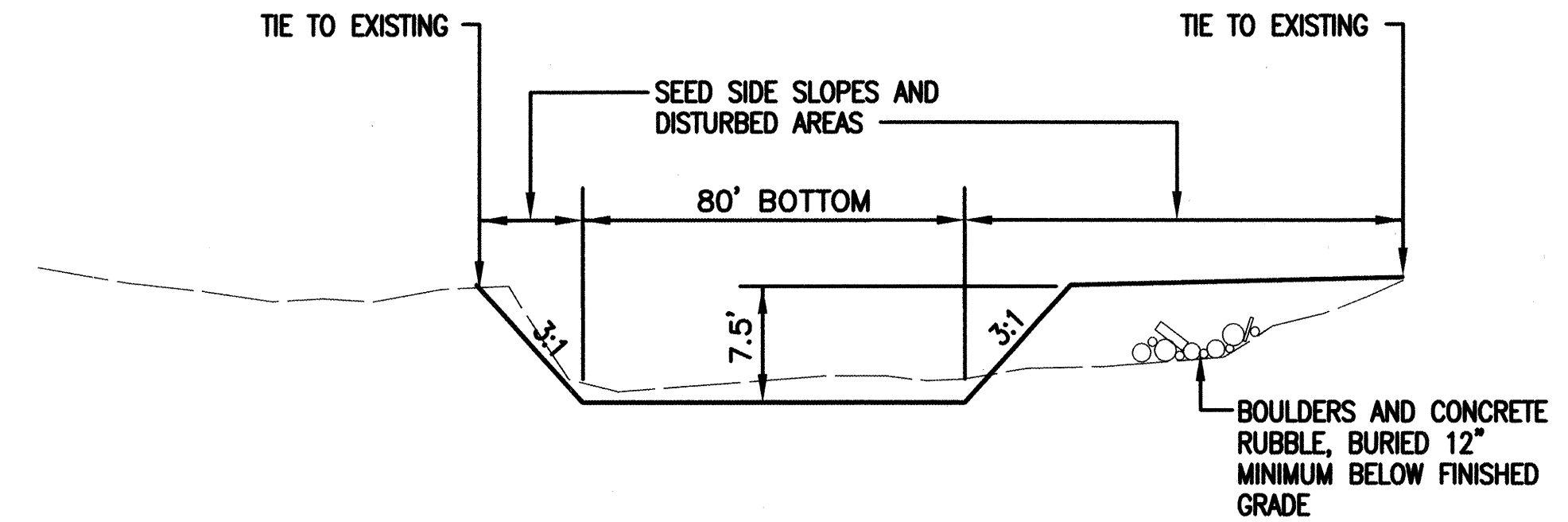
36" RCP PROFILE



18" RCP PROFILE

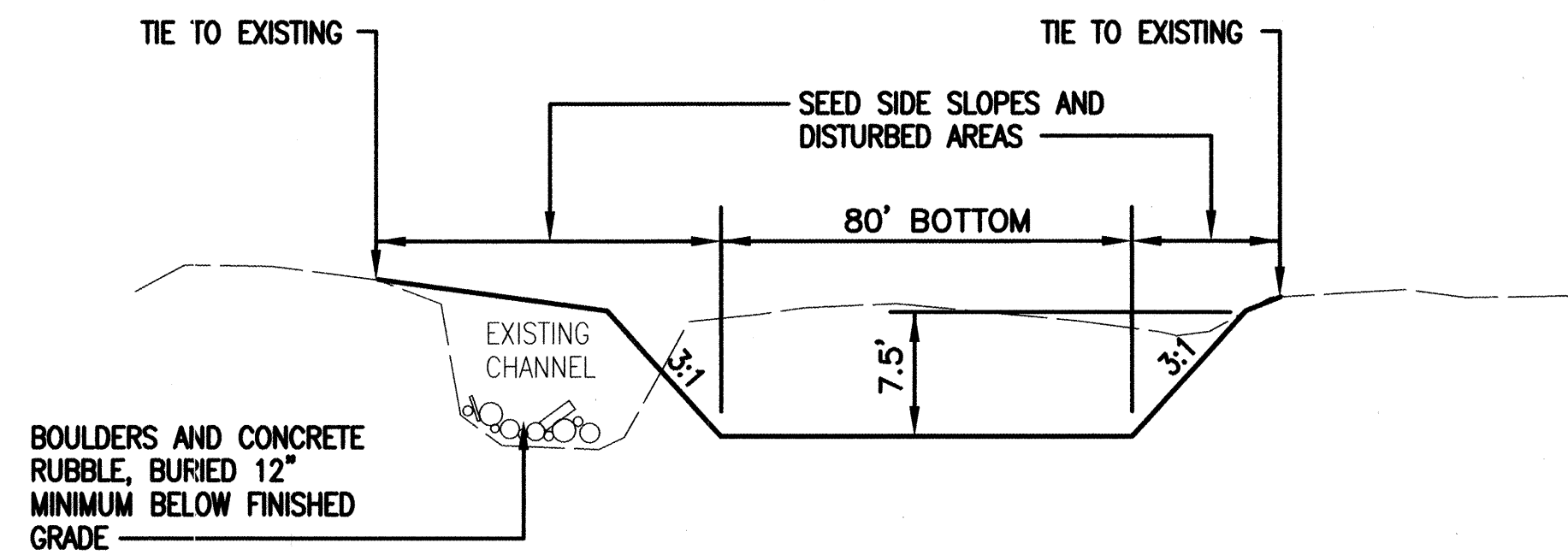


<u>MAXIMUM DIMENSIONS</u> <u>INCHES</u>	<u>% SMALLER</u>
18	100
12	35-55
10	3



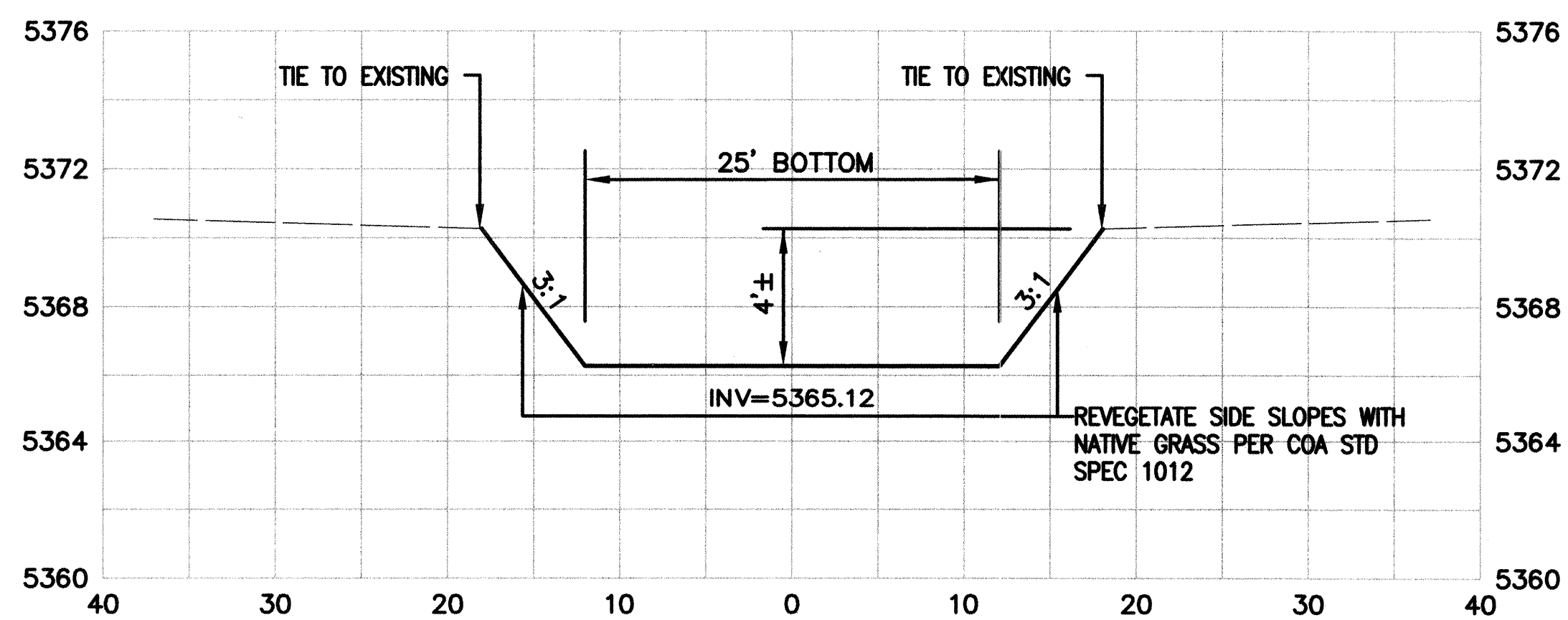
## CHANNEL TYPICAL SECTION

### LOWER REACH

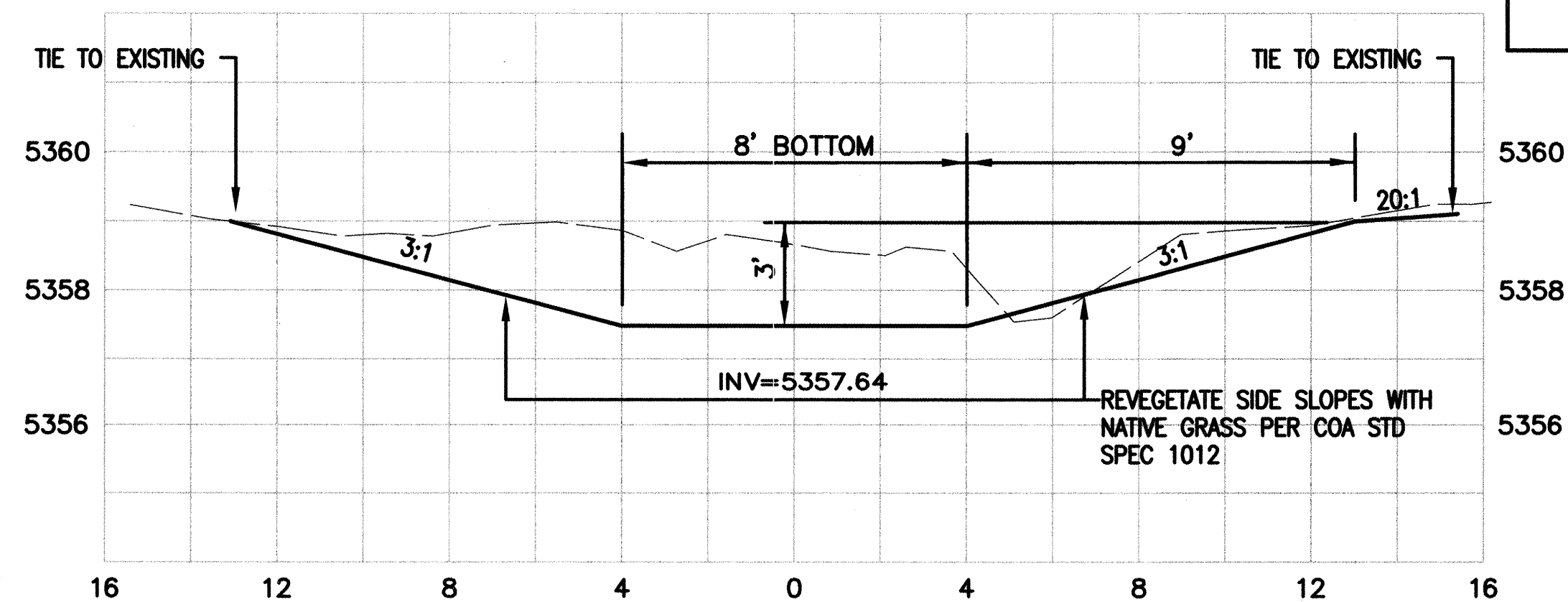


### CHANNEL TYPICAL SECTION

#### UPPER REACH



SECTION A-SIDE CHANNEL  
CL STA 37+25±~40' LT



SECTION B—SIDE CHANNEL  
CL STA 33+30~40' RT

RECORD DRAWING

Date 12/13/04  
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

REDRAWN FOR RECORD PURPOSES

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J:\COA\20355(BEAR CANYON)\DWG\DWG\BEAR CANYON PIPE PROFILES.DWG\09-10-03 MDJ

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
HYDROLOGY DIVISION

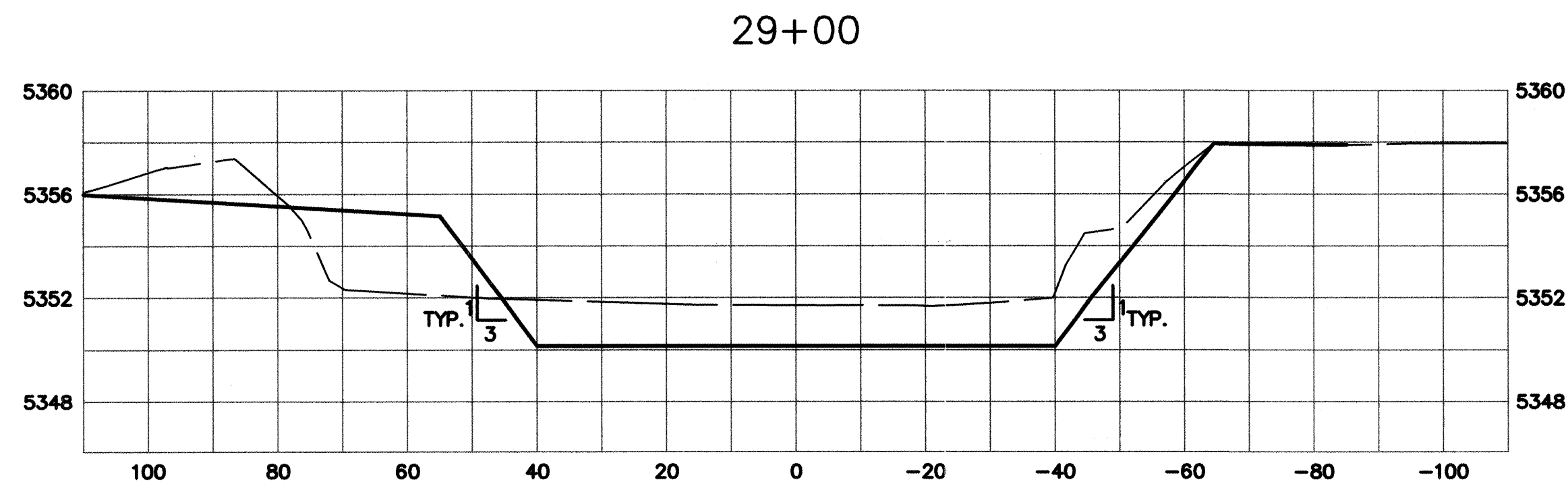
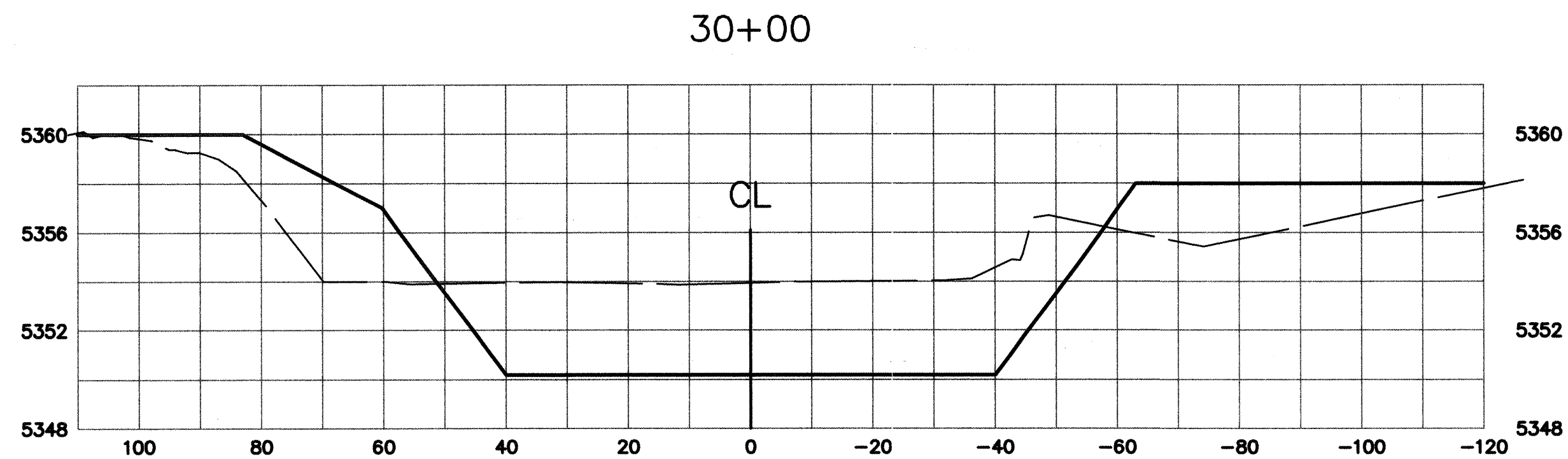
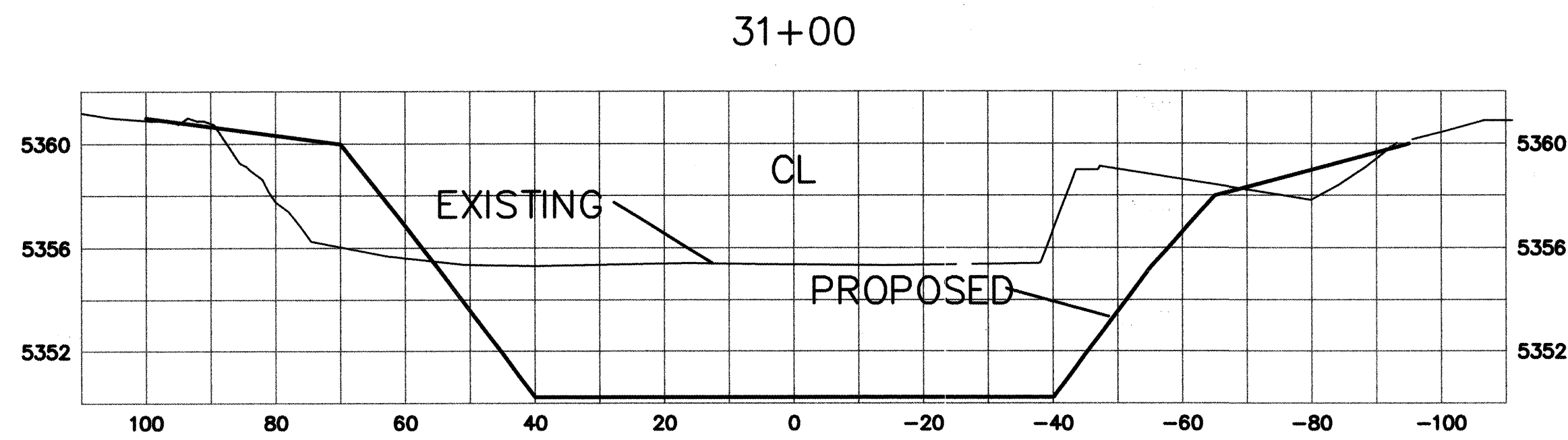
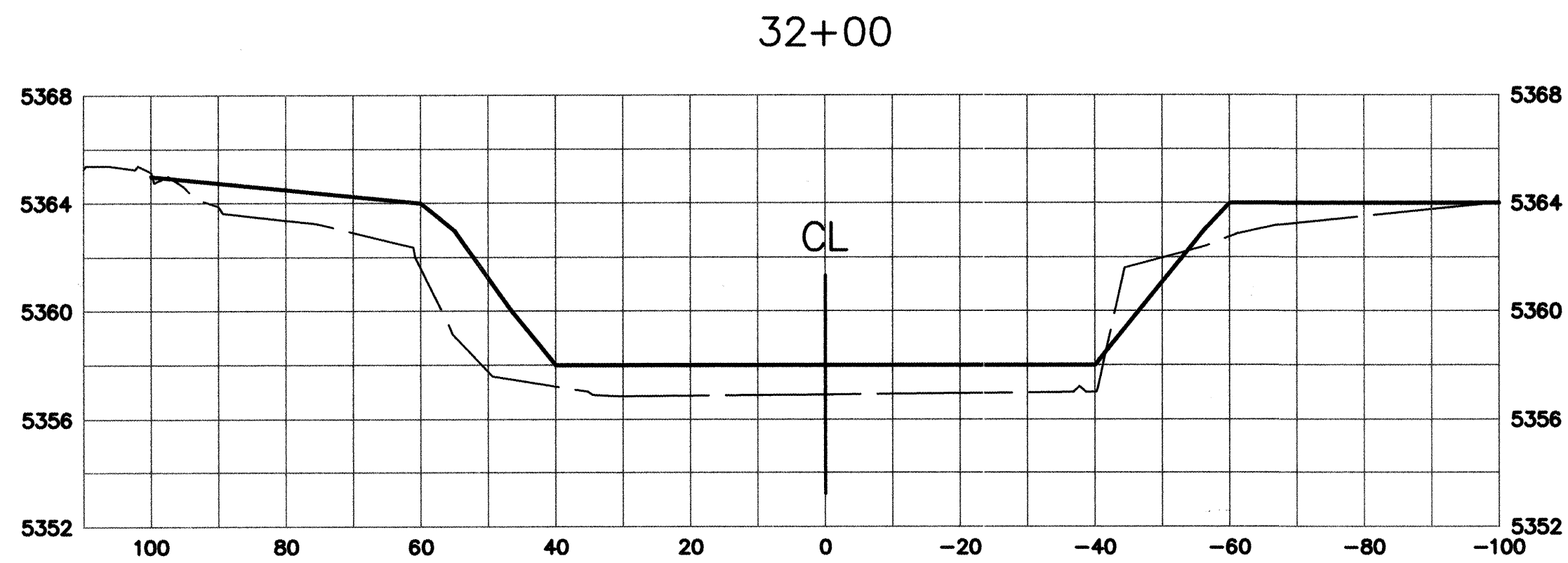
TITLE:	BEAR CANYON ARROYO WEST OF WYOMING PIPE PROFILES
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Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.			
City Project No.	689502	Zone Map No.	F-19	Sheet	8	Of	13

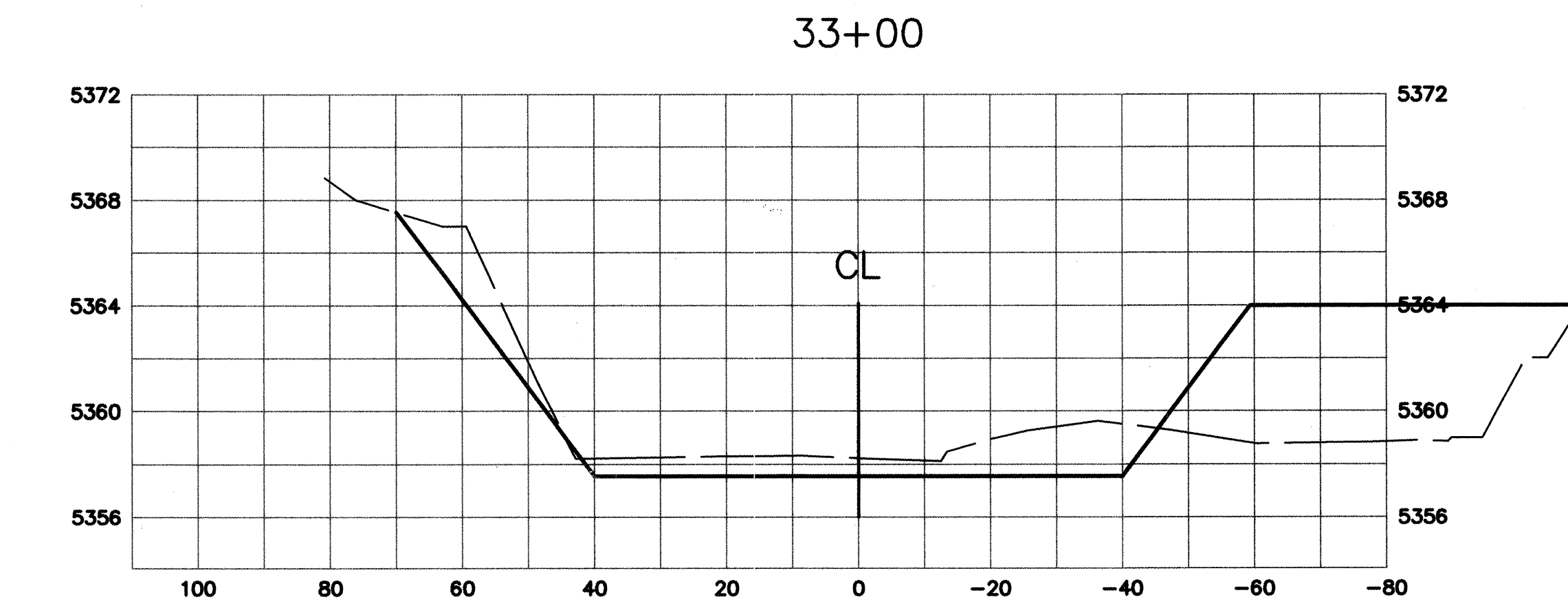
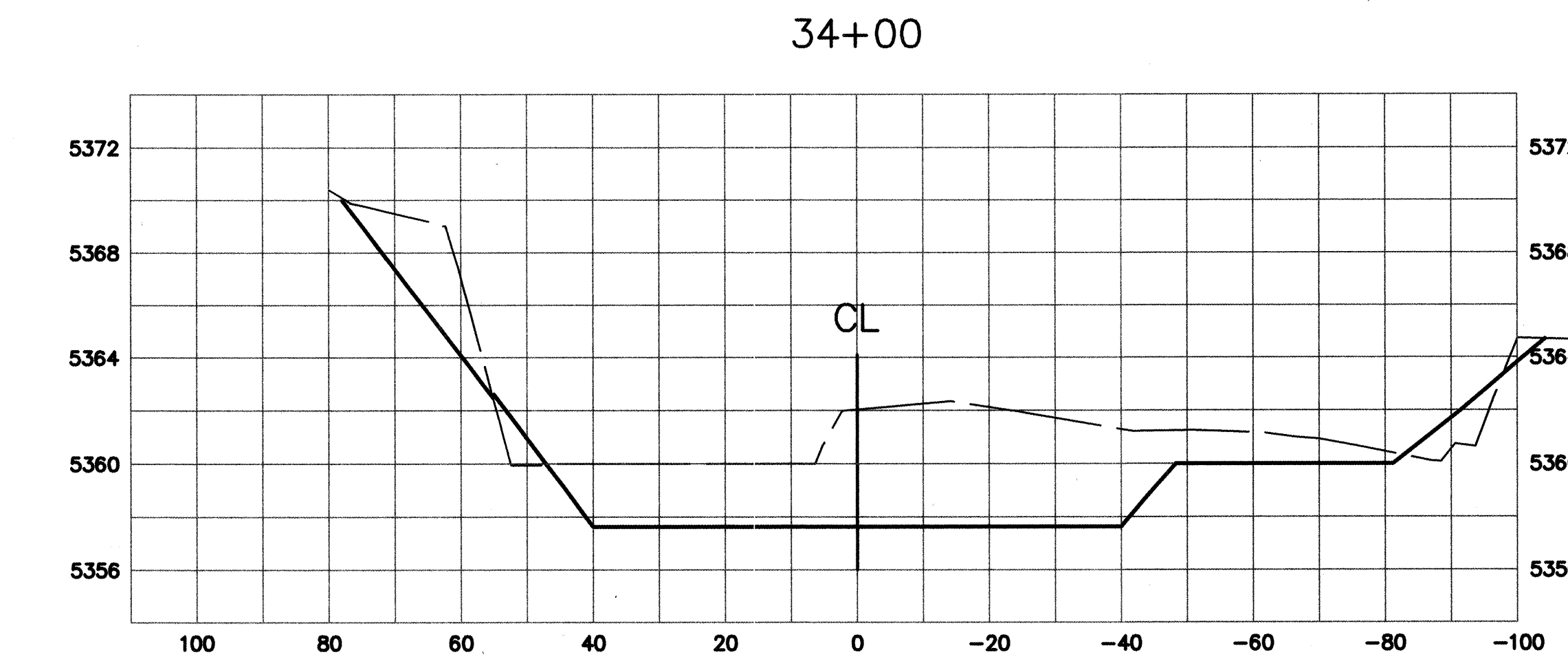
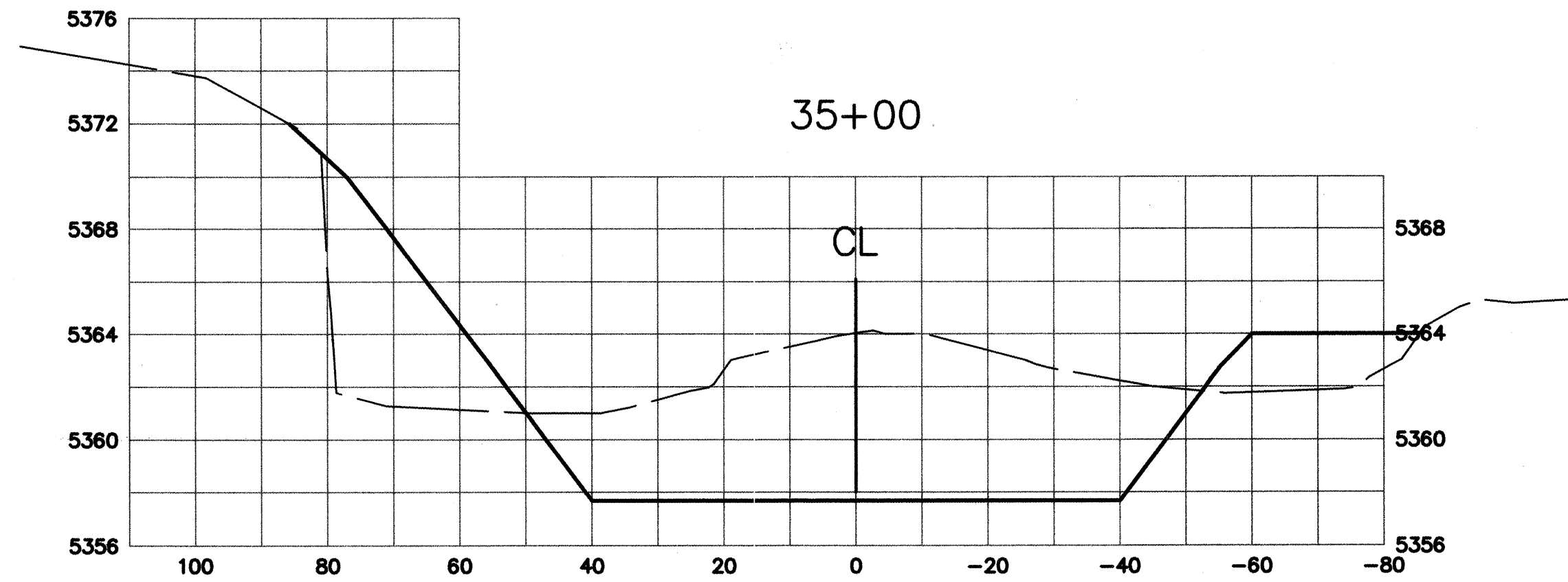
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SCANNED BY  
MESA REPRO



1" = 20' HORIZONTAL  
1" = 5' VERTICAL



RECORD DRAWING

Date 12/13/04  
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J:\COA\20355\BEAR\_CANYON\DWG\DWG\BEAR\_CANYON\_SECTIONS.F.DWG\08-26-03.MDI

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT HYDROLOGY DIVISION			
TITLE: <b>BEAR CANYON ARROYO WEST OF WYOMING CROSS SECTIONS - STA 29+00 TO STA 35+00</b>			
Design Review Committee APPROVED SEP 16 2003	City Engineer Approval APPROVED SEP 16 2003	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 689502	Zone Map No. F-19	Sheet 9	Of 13

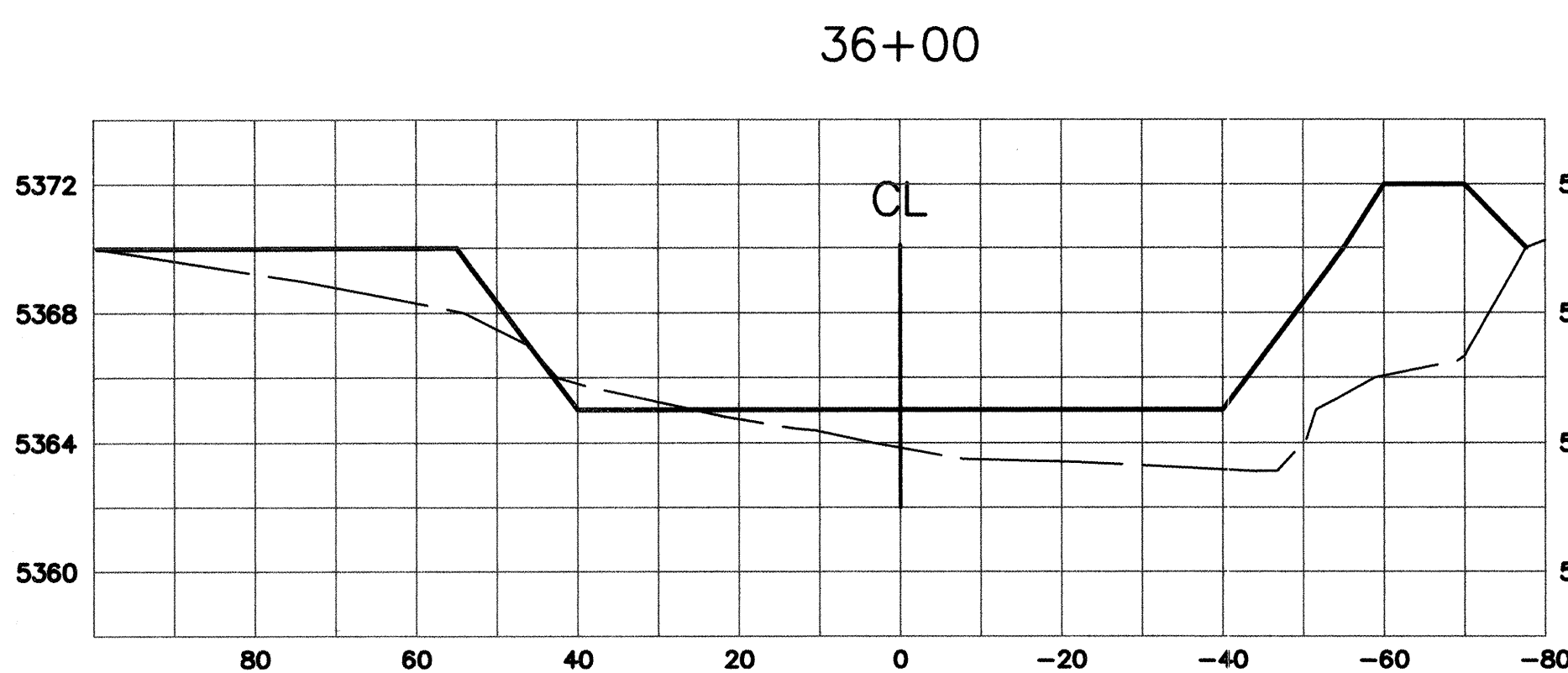
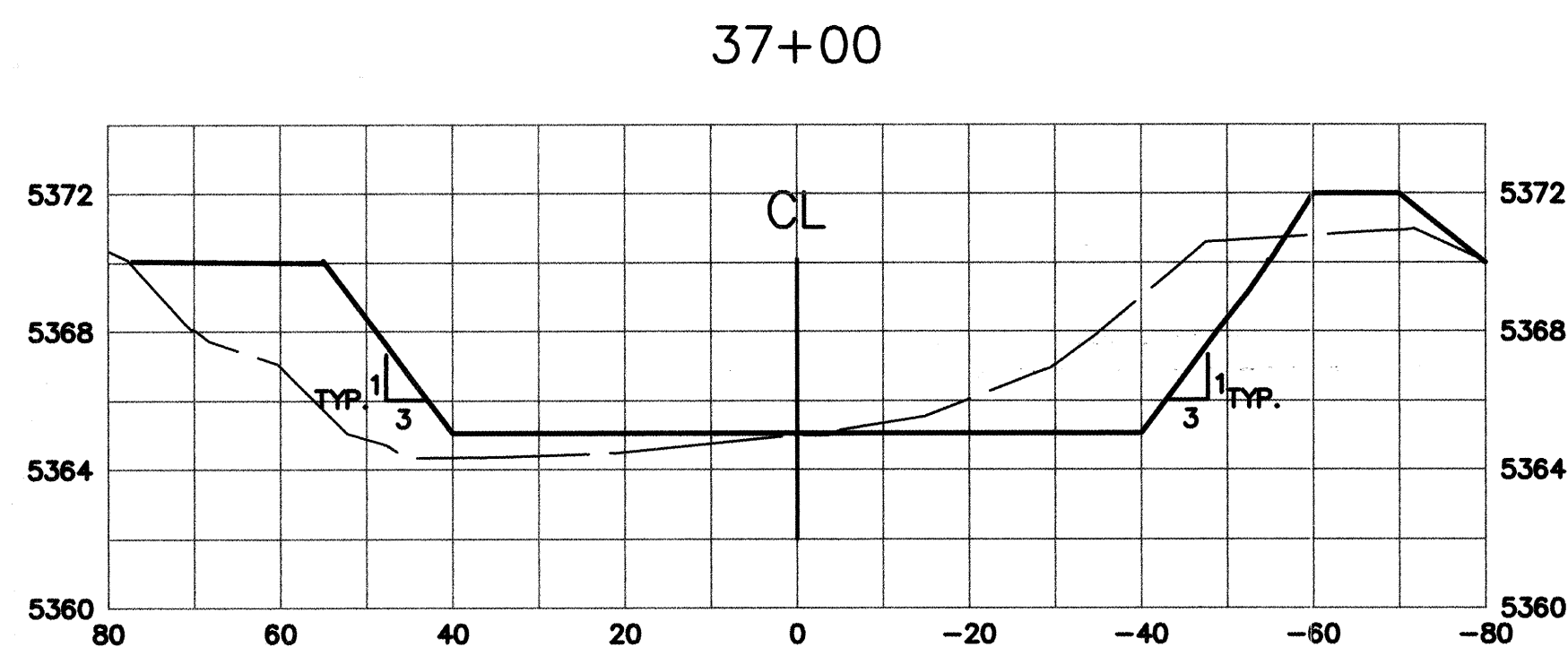
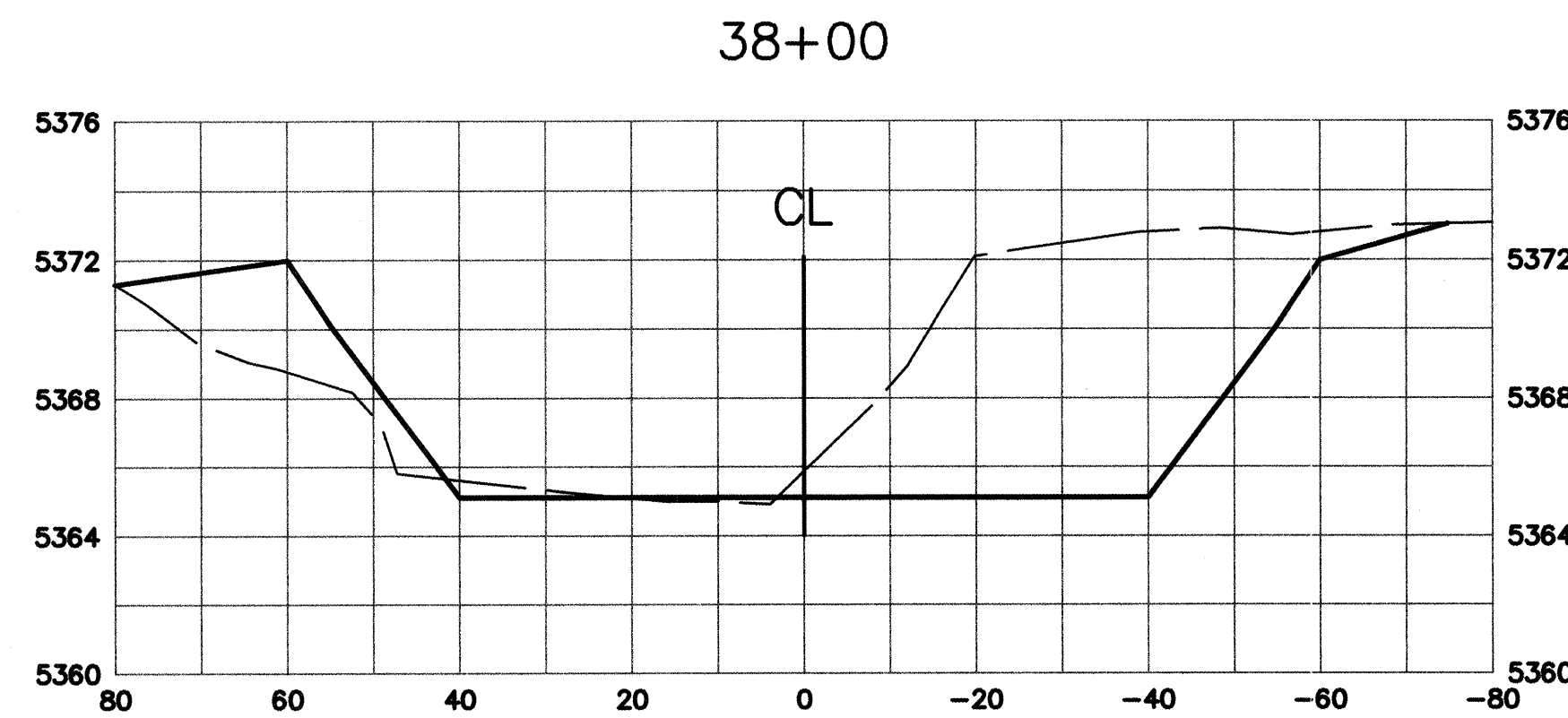


NO.	DATE	REMARKS	DATE
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		DRAWN BY RL	08/03
		CHECKED BY PR	08/03

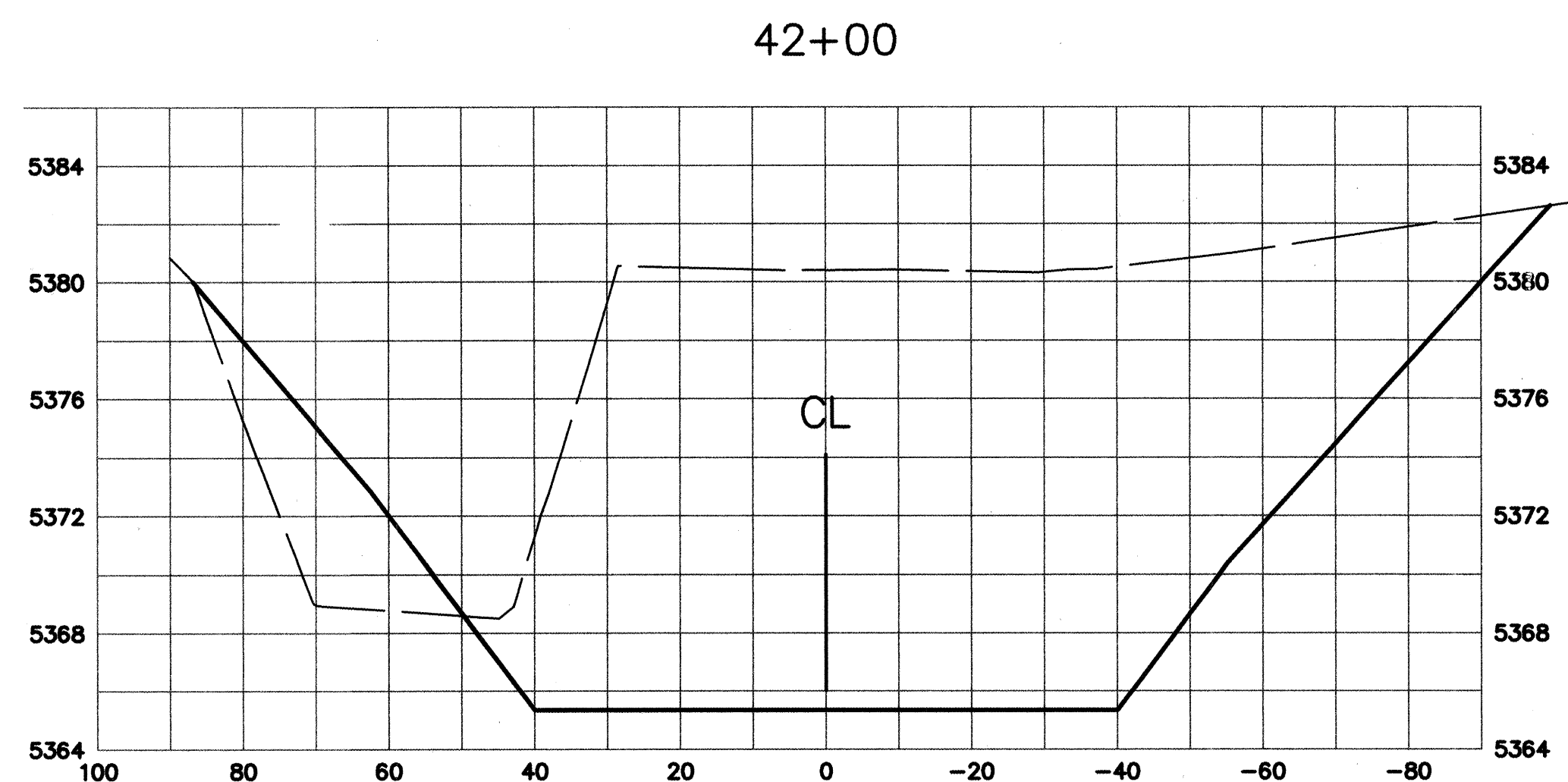
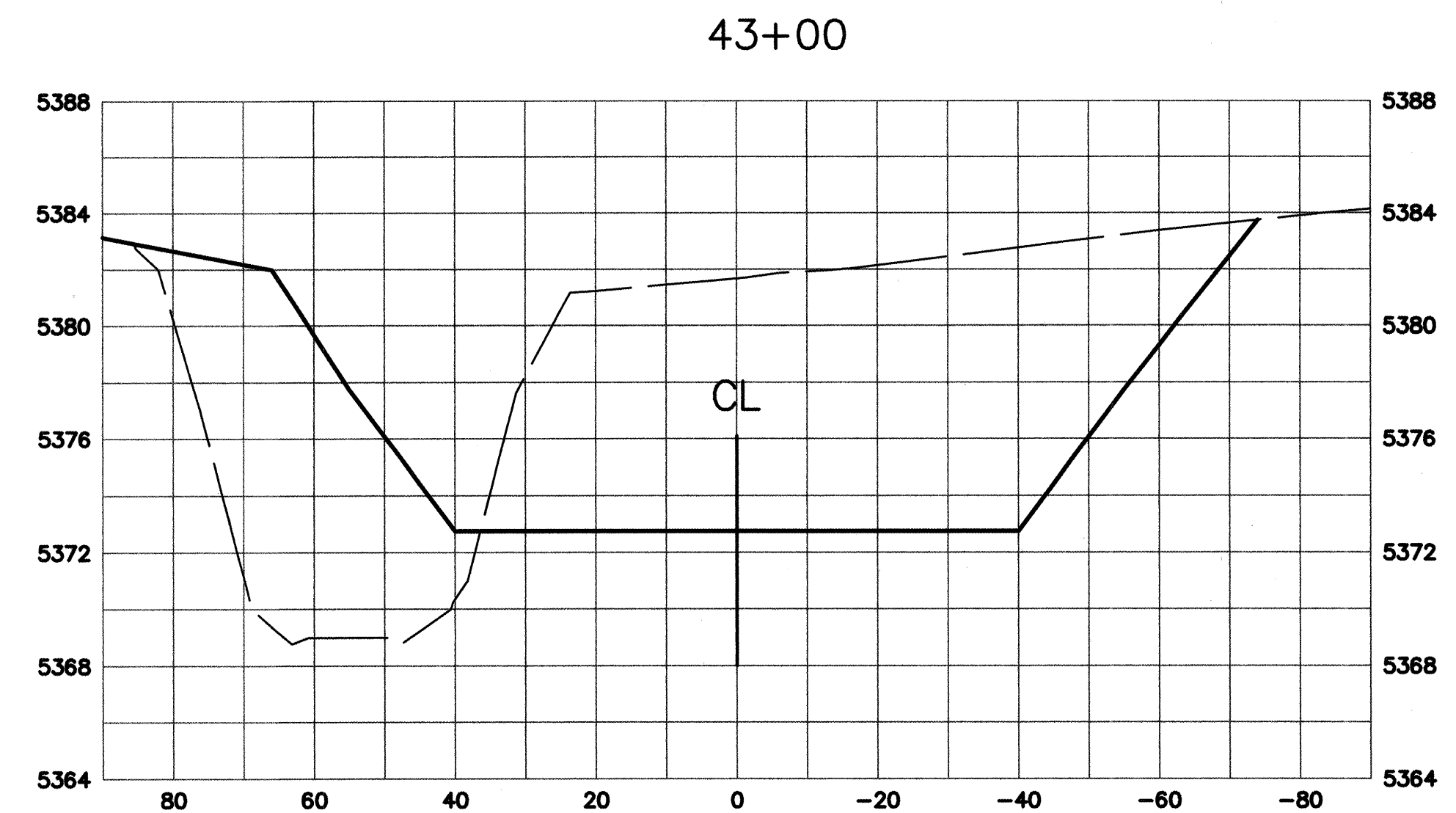
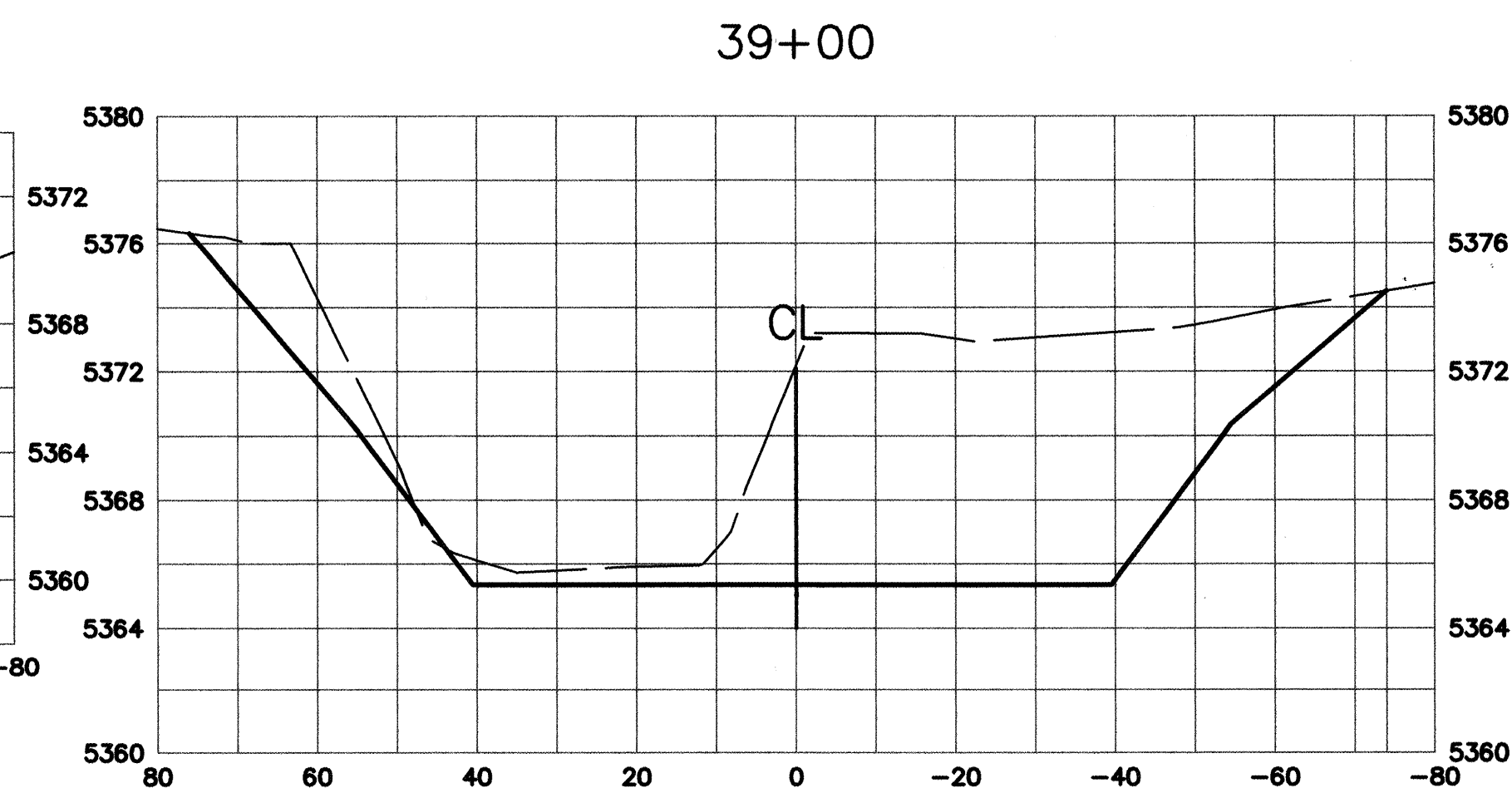
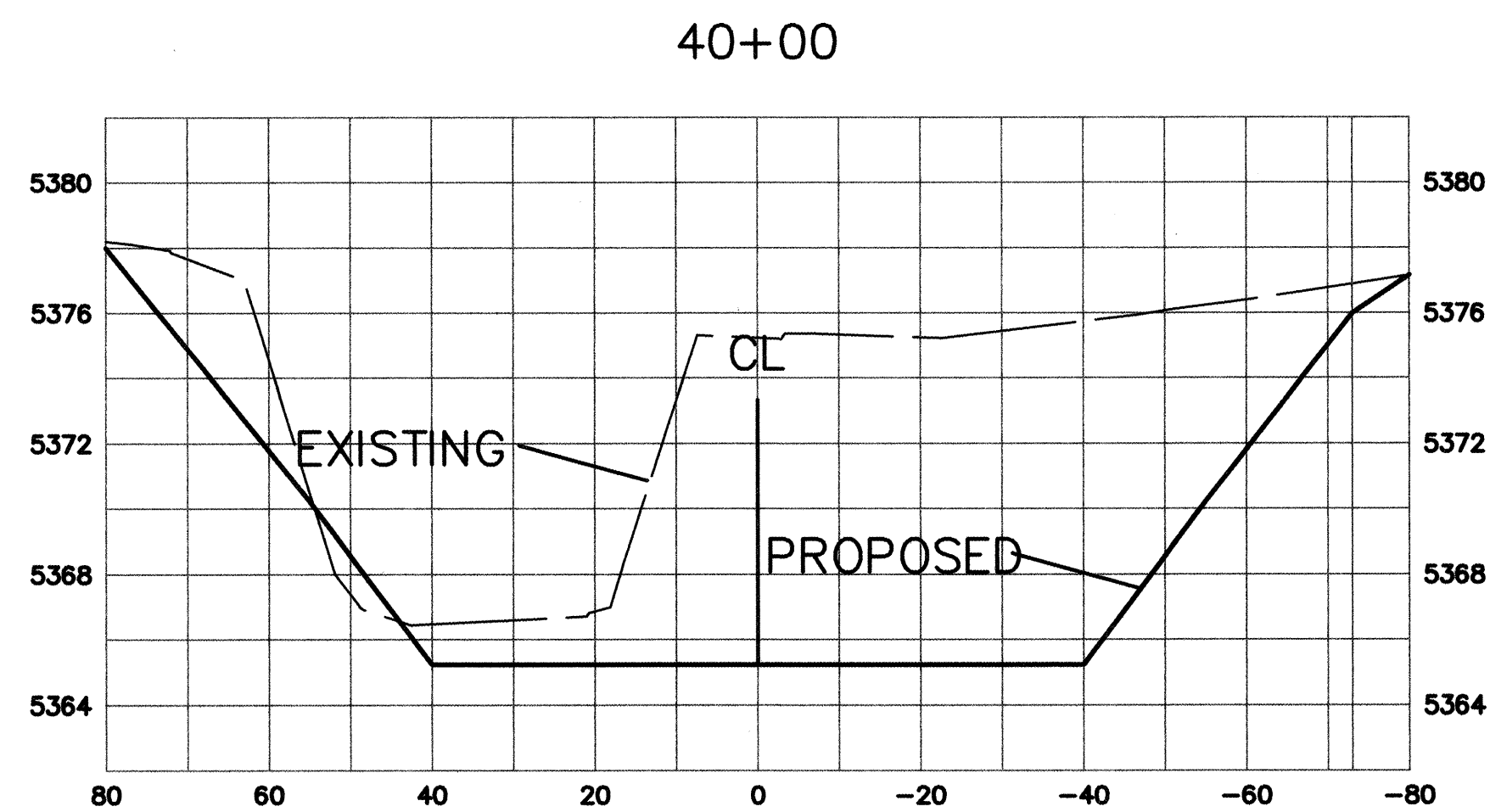
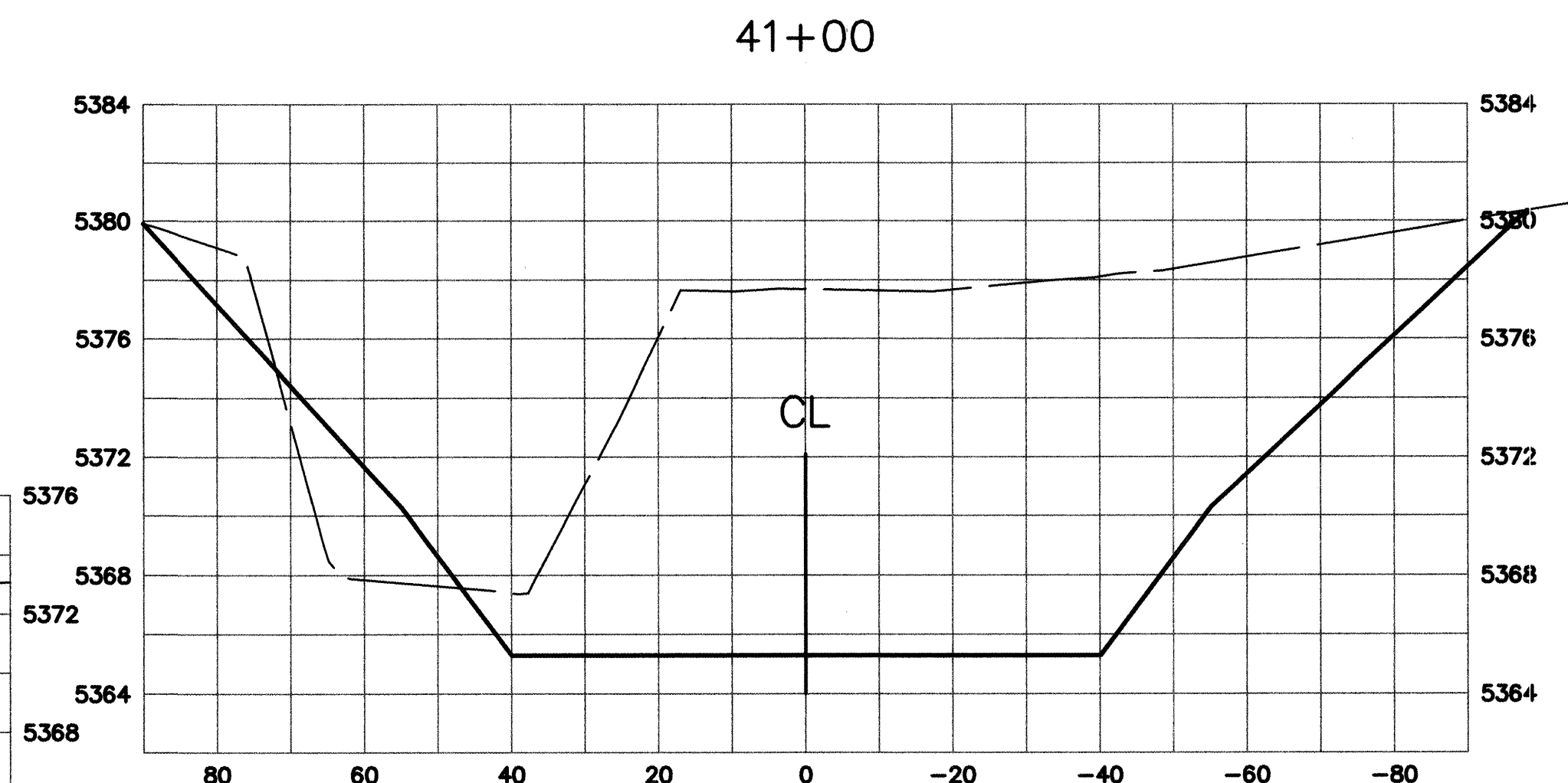
SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
FIELD NOTES		CITY OF ALBUQUERQUE STD. BRASS TABLET STAMPED 4-F19, LOCATED ON THE NORTH CURB OF OSUNA RD, 92' WEST OF BRENDA ST EL=5403.389 (SLD 1929)		CONTRACTOR WORK INSPECTED BY ACCEPTANCE BY VERIFICATION BY DRAWINGS COMPUTED BY	
		CITY OF ALBUQUERQUE STD. BRASS TABLET STAMPED 6-F19A, LOCATED ON THE NORTH CURB OF OSUNA RD, 238' EAST OF VISTA DEL ARROYO. EL=5346.22 (SLD 1929)		MICRO-FILM INFORMATION RECORDED BY DATE NO.	



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1" = 20' HORIZONTAL  
1" = 5' VERTICAL



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**6501 AMERICAS PARKWAY NE, SUITE 400  
ALBUQUERQUE, NEW MEXICO 87110-5372  
PHONE 505.247.0294 • FAX 505.242.4845**

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CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
HYDROLOGY DIVISION

TITLE: BEAR CANYON ARROYO  
WEST OF WYOMING  
CROSS SECTIONS - STA 36+00 TO STA 43+00

Design Review Committee

APPROVED

SEP 16 2003

DESIGN  
REVIEW COMMITTEE

City Engineer Approval

**APPROVED**

SEP 16 2003

CITY ENGINEER

Last Design Update

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

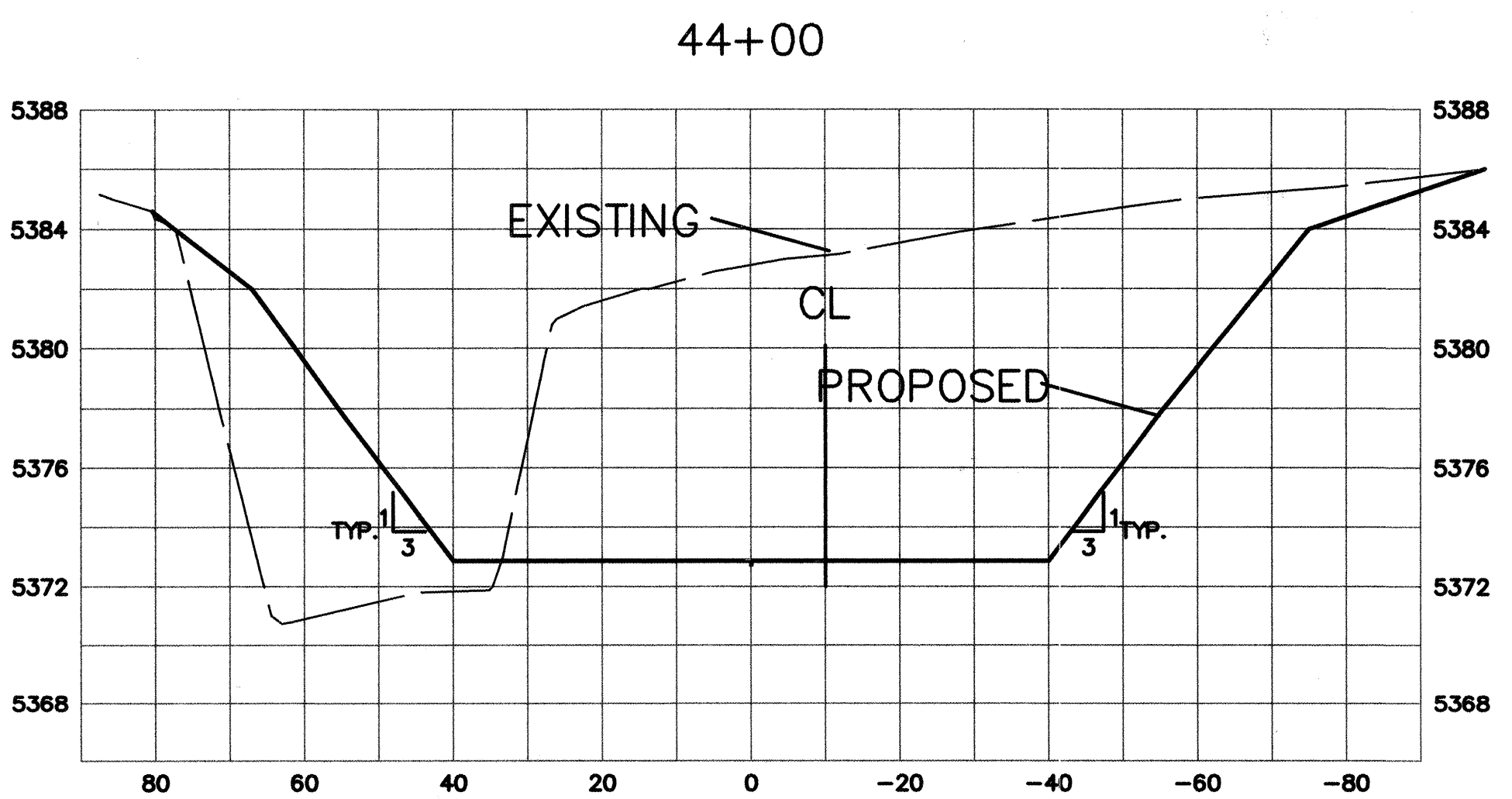
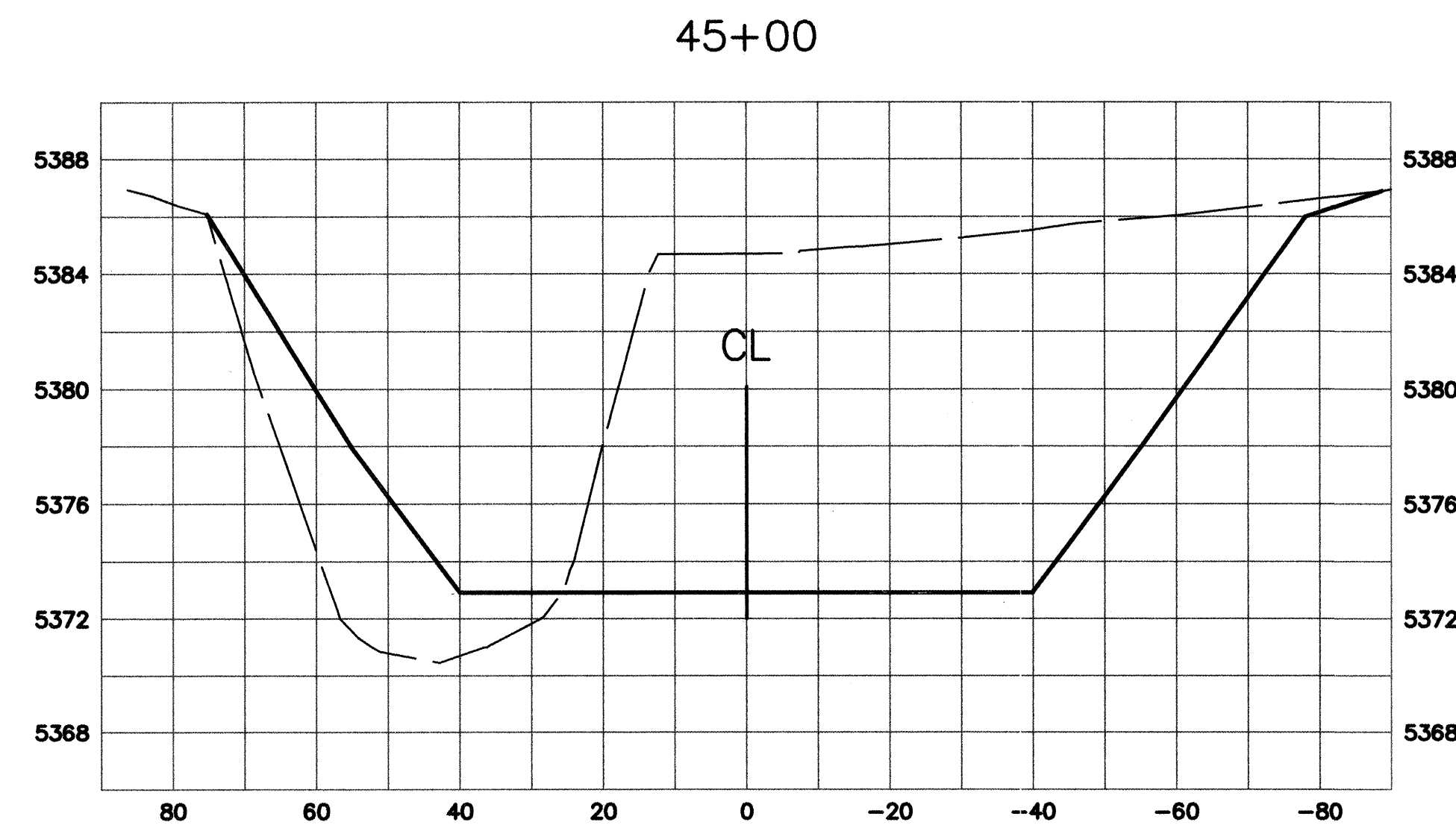
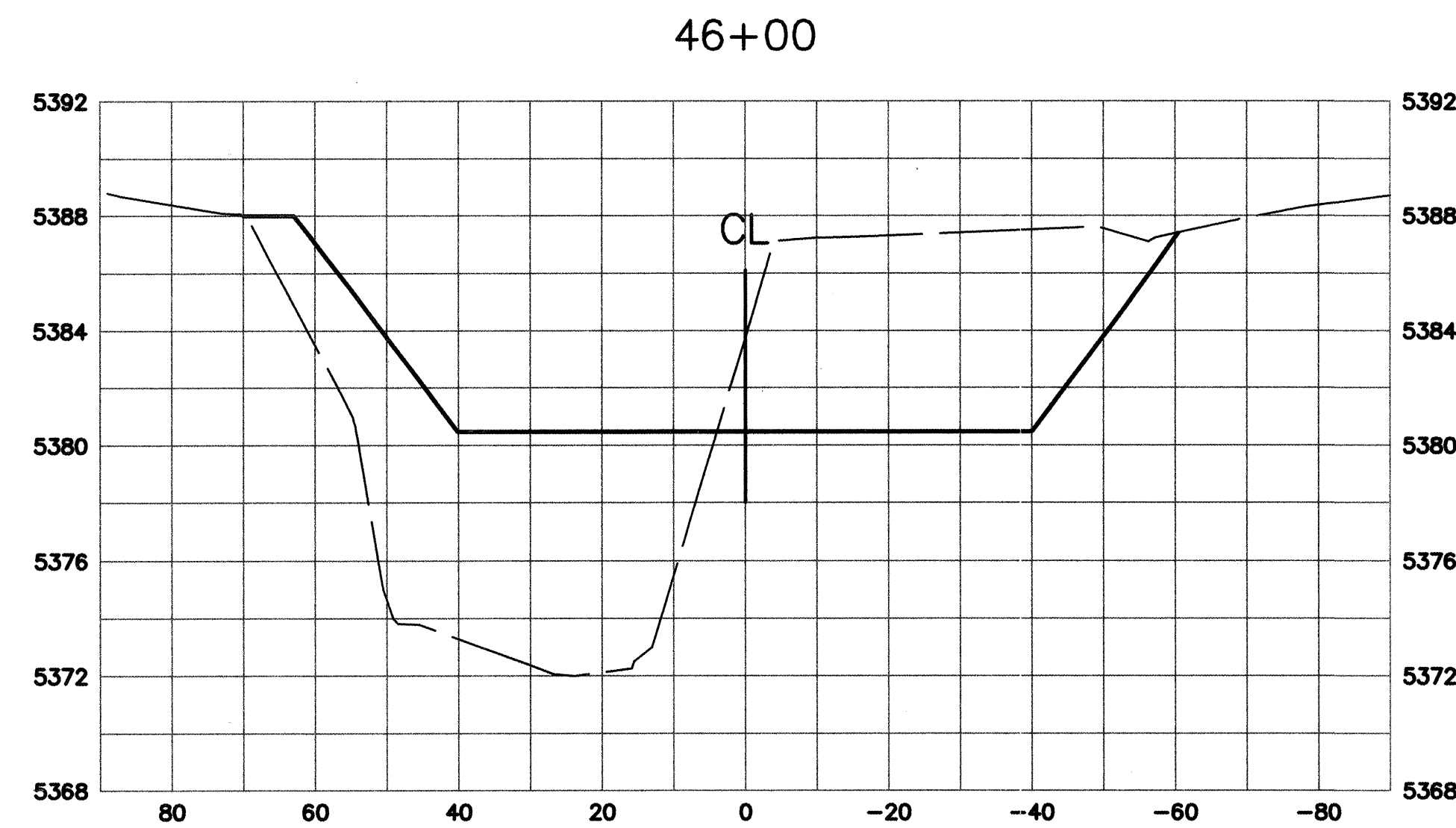
City Project No.	689502	Zone Map No.	F-19	Sheet	10	Of	13
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RECORD DRAWING

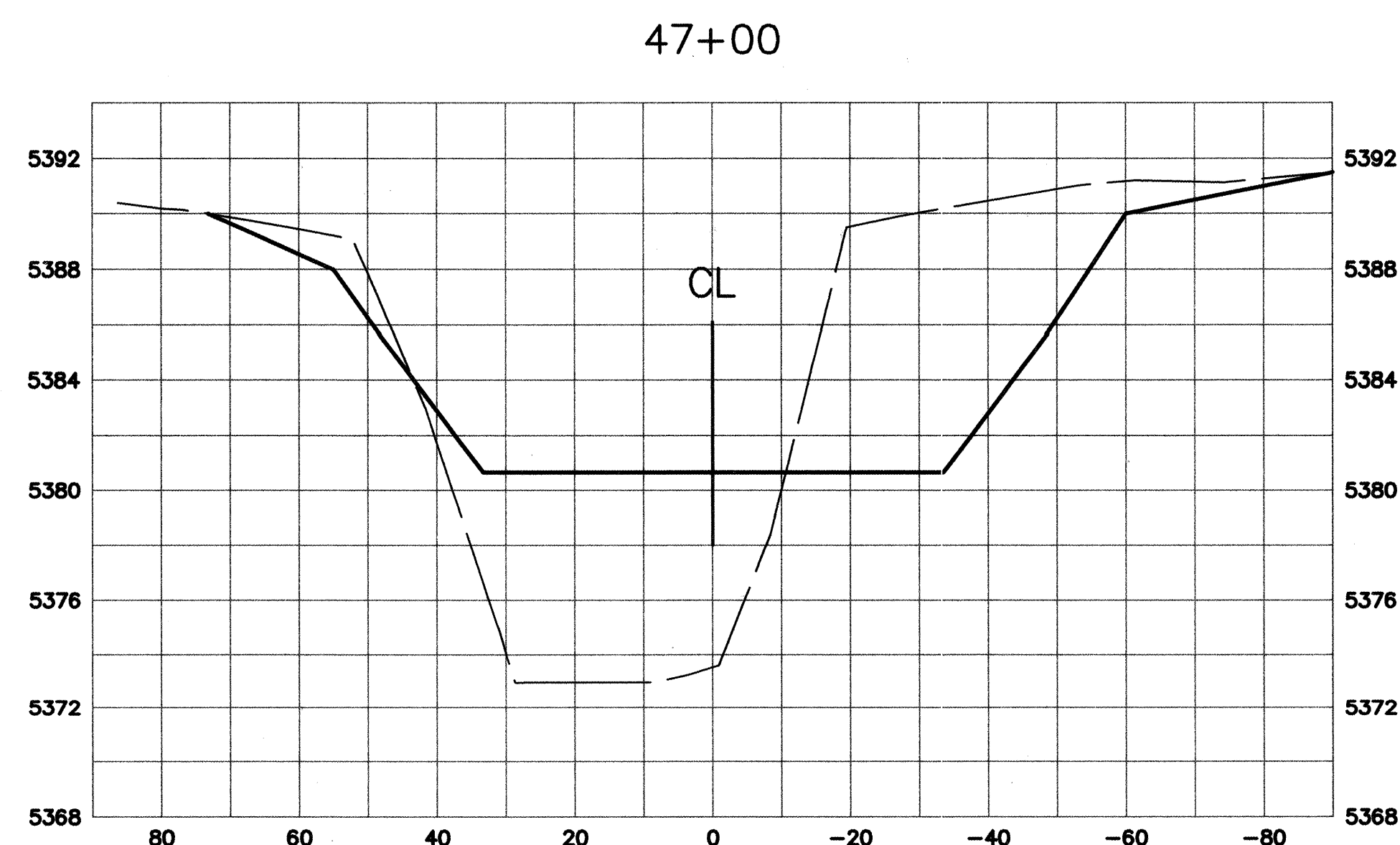
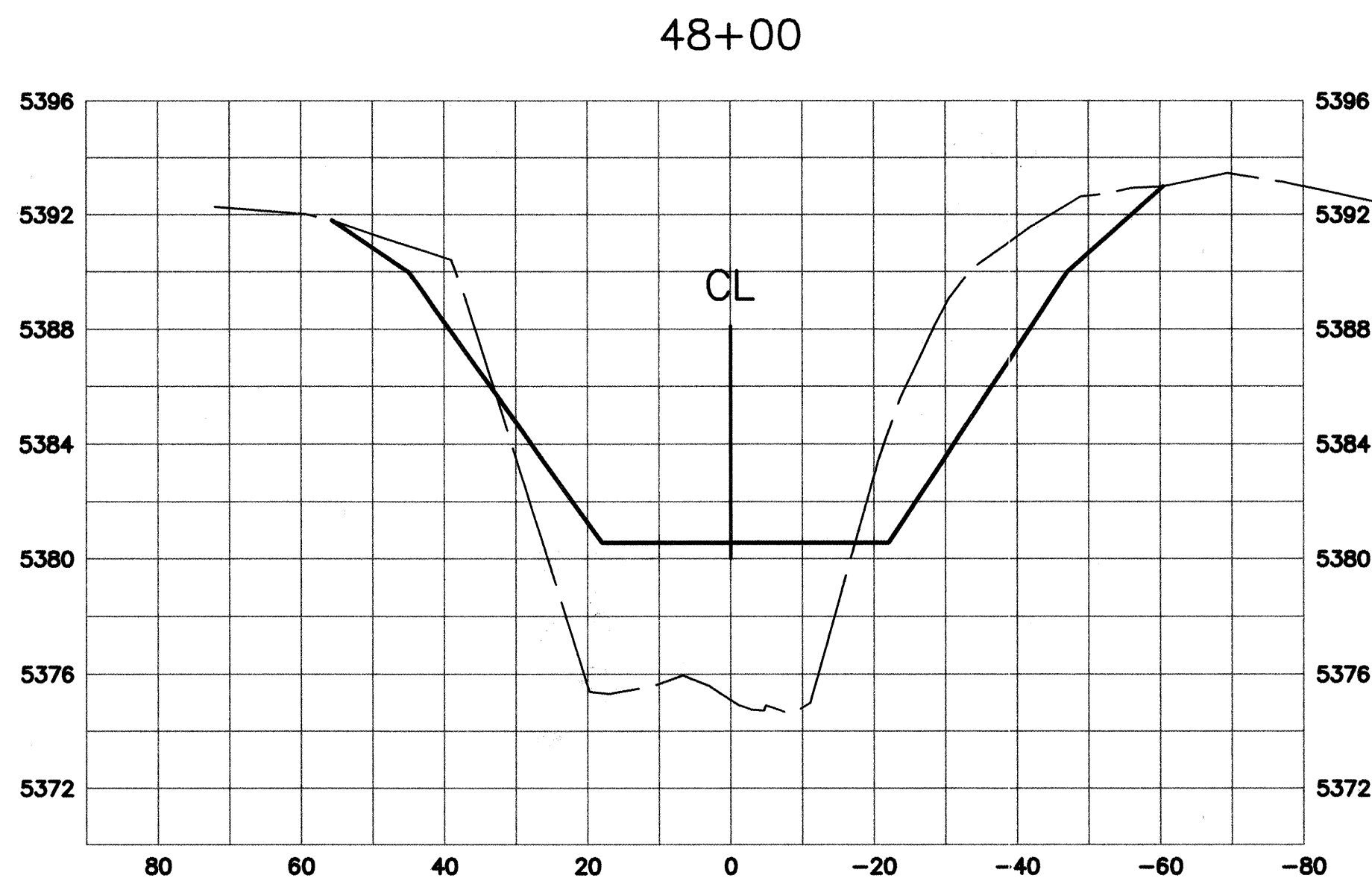
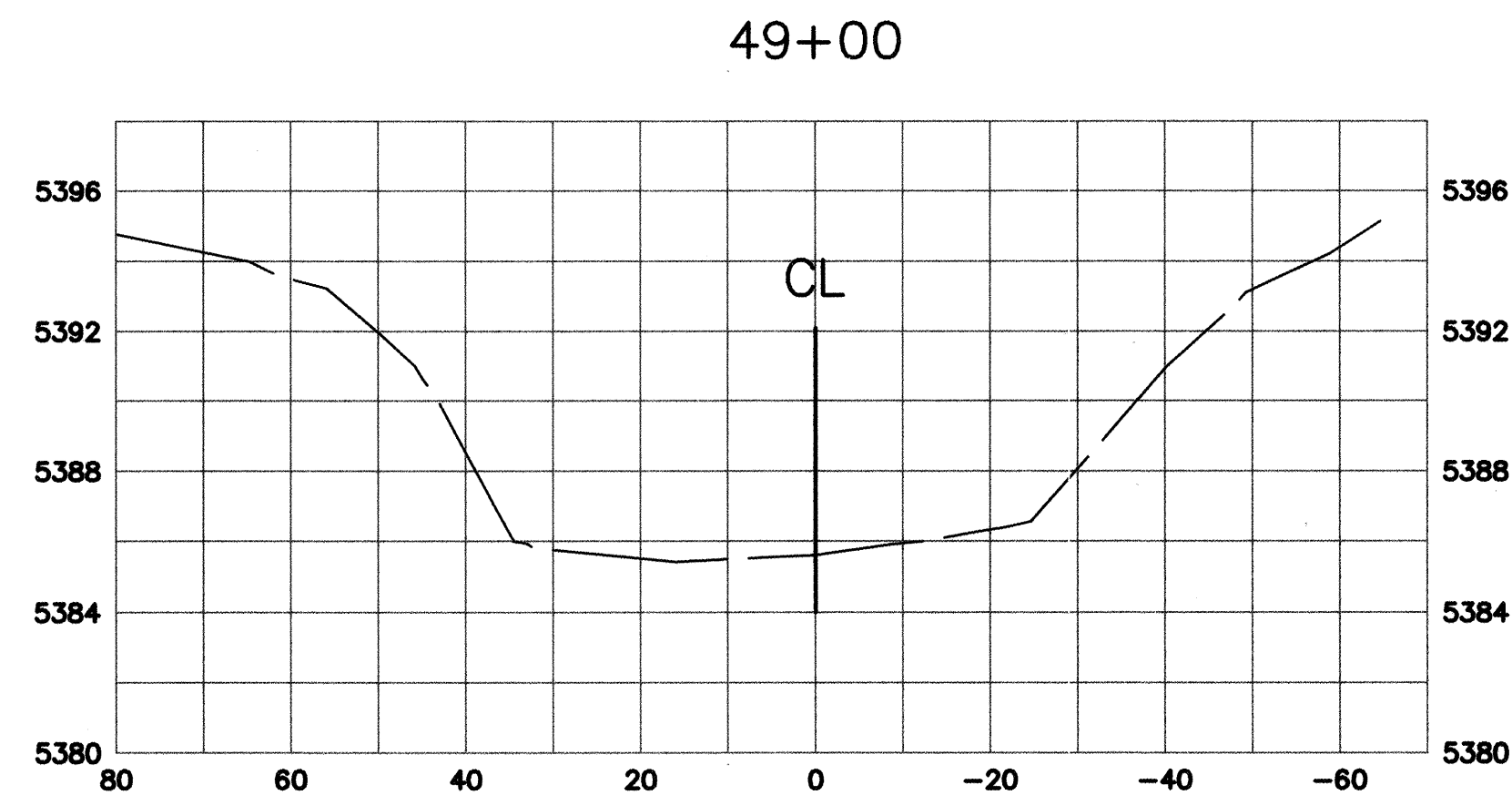
Date 12/13/04  
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.



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MESA REPRC



1" = 20' HORIZONTAL  
1" = 5' VERTICAL



# RECORD DRAWING

Date 12/13/04  
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT HYDROLOGY DIVISION	
TITLE: <b>BEAR CANYON ARROYO WEST OF WYOMING CROSS SECTIONS - STA 44+00 TO STA 49+00</b>	
Design Review Committee	City Engineer Approval
Mo./Day/Yr.	Mo./Day/Yr.
City Project No. <b>689502</b>	Zone Map No. <b>F-19</b>
Sheet <b>11</b>	Of <b>13</b>



Pierce Runnels

NO.	DATE	REVISIONS
1	08/03	DESIGN
2	08/03	DESIGNED BY BC, PR
3	08/03	DRAWN BY RL
4	08/03	CHECKED BY PR

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	DATE	CITY OF ALBUQUERQUE STD. BRASS TABLET STAMPED 4-F19, LOCATED ON THE NORTH CURB OF OSUNA RD, 92' WEST OF BRENDA ST. EL=5403.389 (SLD 1929)	CONTRACTOR	WORKED BY	RECORDED BY
				INSPECTOR'S ACCEPTANCE BY	
				VERIFICATION BY	
				DRAWINGS CORRECTED BY	
				W/PRO-FILM INFORMATION	
					DATE
					NO.



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