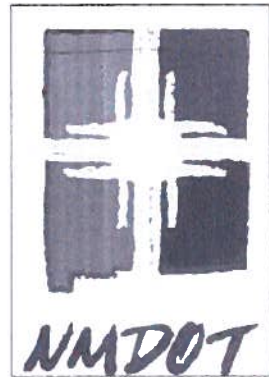
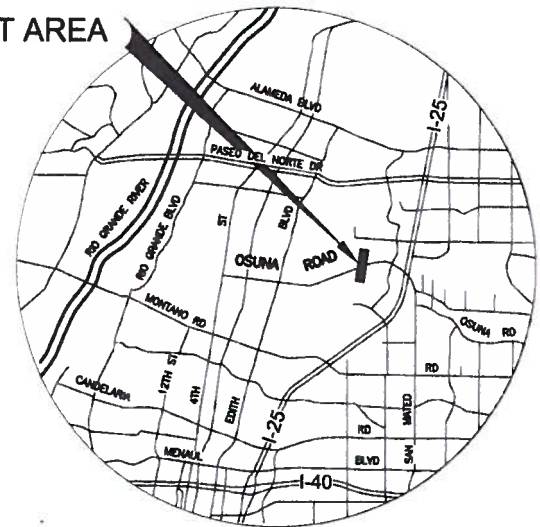


CITY OF ALBUQUERQUE NEW MEXICO
DEPARTMENT OF MUNICIPAL DEVELOPMENT CONSTRUCTION PLANS
FOR



PROJECT AREA



VICINITY MAP
N.T.S.
ZONE ATLAS - E16 - E17

OSUNA ROAD CHANNEL NOTCH
FEDERAL CONTROL NO. A300950
COA PROJECT NO. 5575.93

I, THE UNDERSIGNED, A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO DO HEREBY CERTIFY THAT THE INDICATED RECORD DRAWINGS ARE BASED UPON INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR IN THE FORM OF RED-LINED CONSTRUCTION DRAWING MARKUPS TO THE ORIGINAL DESIGN DRAWINGS. THE TRANSFER OF INFORMATION HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. HOWEVER, I HAVE NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THE INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND SHALL NOT BE RESPONSIBLE FOR ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. ALL INFORMATION INCLUDING VERTICAL AND HORIZONTAL DIMENSIONS SHOULD BE FIELD VERIFIED PRIOR TO USE ON FUTURE PROJECTS.

9/7/12

DATE

NAME



TY LIN INTERNATIONAL
engineers | planners | scientists
500 4th Street NW Suite 403
Bank of America Centre
Albuquerque, NM 87102

APPROVED FOR RECORD DRAWINGS

David Harrison 9-18-12
CITY CONSTRUCTION ENGINEER

CITY INSPECTOR: RAUL VASQUEZ
CITY PROJECT MANAGER: RICHARD COSTALES
CONTRACTOR: DAVID MONTOYA CONSTRUCTION INC.
SURVEYOR: ALBUQUERQUE SURVEYING COMPANY
CITY URBAN PROGRAM SUPERVISOR: ADAM BERGSTRASSER
LETTER OF ACCEPTANCE DATE:
CONSTRUCTION ENGINEER: DAVID HARRISON

APPROVED FOR CONSTRUCTION
IN AMAFCA RIGHT-OF-WAY:

David Harrison
AMAFCA ENGINEER

APPROVED FOR RECORD DRAWING:

N/A

ABCWUA ENGINEER

UTILITY COMPANY CONTACTS:

COMMUNICATION:

COMCAST
4611 MONTBEL PLACE NE
ALBUQUERQUE, NM 87107
CONTACT: MIKE MORTUS
(505) 271-3644

QWEST
400 TIJERAS AVE. NW SUITE 570
ALBUQUERQUE, NM 87102
CONTACT: NATALIA ANTONIO
(505) 245-6846

TW TELECOM OF NEW MEXICO LLC.
5411 JEFFERSON ST. NE SUITE 200
ALBUQUERQUE, NM 87109
CONTACT: ROYAL HARRISON
(505) 938-7339

ELECTRIC:

PNM ELECTRIC
4201 EDITH BLVD. NE
ALBUQUERQUE, NM 87107
CONTACT: ANTHONY KOZLOWSKI
(505) 241-3637

FLOOD CONTROL:

AMAFCA
2600 PROSPECT AVE. NE
ALBUQUERQUE, NM 87107
CONTACT: KURT WAGENER
(505) 884-2215

GAS:

NEW MEXICO GAS
MAIL STOP GS66
4625 EDITH BLVD. NE
ALBUQUERQUE, NM 87107
CONTACT: EARL HOSKINS
(505) 697-3140

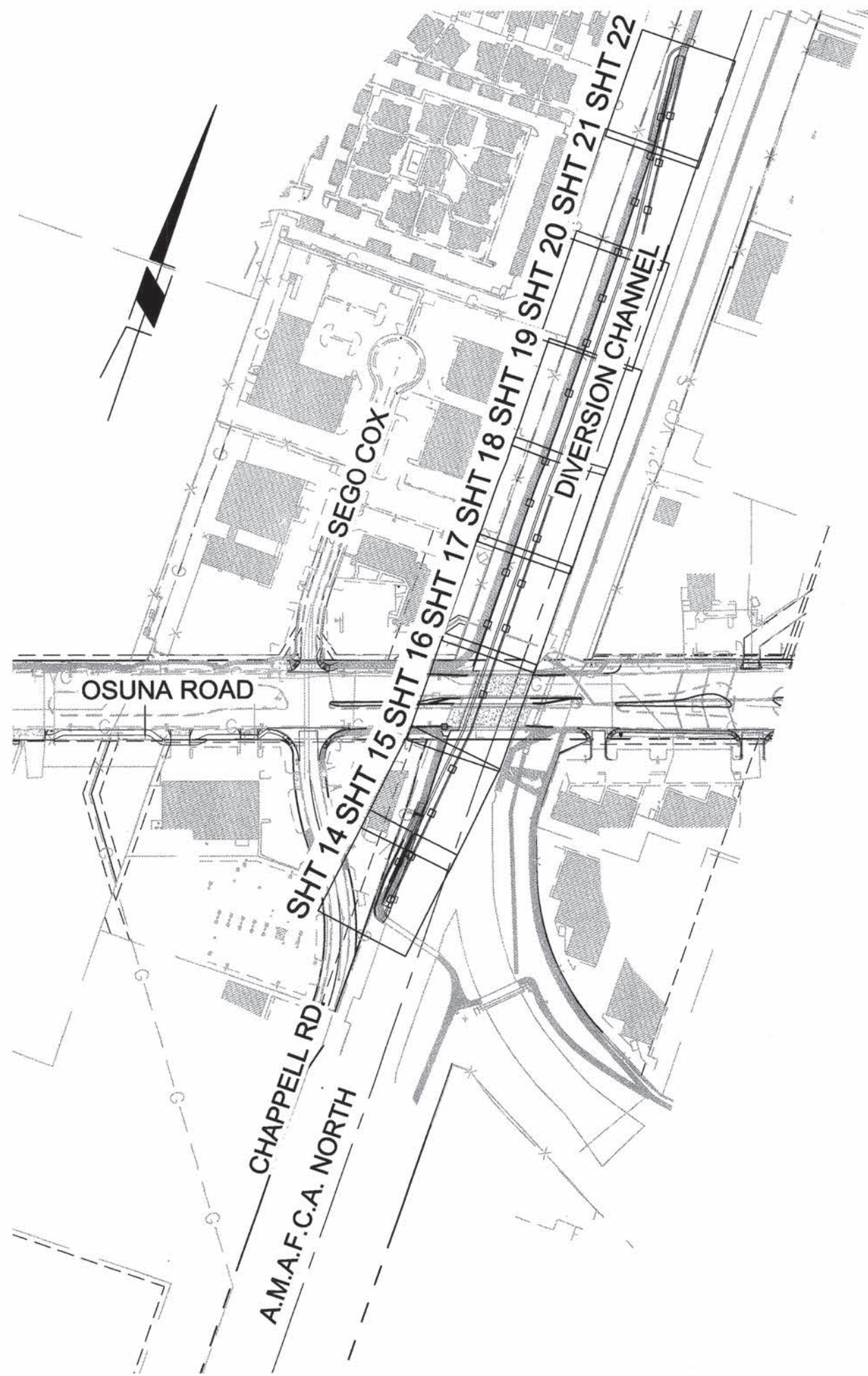
WATER / SEWER:

ABCWUA
P.O. BOX 1293
ALBUQUERQUE, NM 87103
CONTACT: ANTHONY MONTOYA
(505) 768-2713

REV.	DATE	CITY ENGINEER	DATE	USER DEPARTMENT DATE	USER DEPARTMENT DATE
ENGINEERS STAMP & SIGNATURE					
APPROVALS		ENGINEER	DATE	*****	
DCR Chairman		<i>David Harrison</i>	10-7-11	APPROVED FOR CONSTRUCTION	
Transportation		<i>David Harrison</i>	8-2-11		
Water/Wastewater		<i>David Harrison</i>	8-5-11		
Hydrology		<i>David Harrison</i>	8-16-11		
Parks					
Federal Control No.		A300950		City Engineer Date	
City Project No.		5575.93		Sheet 1 of 25	

RECORD DRAWING

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SHEET INDEX:

- 1 COVER SHEET
- 2 GENERAL NOTES
- 3-4 TYPICAL SECTIONS
- 5 QUANTITY SUMMARY SHEET
- 6-7 PLAN AND PROFILES
- 8-9 RETAINING WALLS PLAN AND PROFILES
- 10-15 DETAILS
- 16-24 PLANS
- 25 TEMPORARY BIKE DETOUR (FOR INFORMATION ONLY)

KEY MAP

SCALE: 1"=250'

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS.
2. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR CONSTRUCTION OBSERVER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
3. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
4. DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE CONSTRUCTION OBSERVER. IDENTIFICATION OF A SITE AND VERIFICATION OF SITE SUITABILITY IS CONSIDERED INCIDENTAL TO THE COST OF PROJECT BID ITEM.
5. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.

6. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY COSTS INCURRED FOR REPAIRS SHALL BE THE COST OF THE CONTRACTOR.

7. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.

8. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E. BARRICADING, SURFACE DISTURBANCE).

9. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE AT HIS EXPENSE ANY AND ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.

10. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE M.U.T.C.D., U.S. DEPARTMENT OF TRANSPORTATION, LATEST EDITION.

11. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.

12. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, CURB & GUTTER, DRIVEPADS, WHEELCHAIR RAMPS, AND SIDEWALK DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS AND SHALL REPAIR OR REPLACE PER COA STANDARDS, AT HIS OWN EXPENSE.

13. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P AND COA STD. DWG. 2465.

14. CONTRACTOR IS RESPONSIBLE FOR DRAINAGE MANAGEMENT AND EROSION CONTROL AT ALL TIMES DURING THE CONSTRUCTION PERIOD.

15. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.

16. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.

17. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE PROJECT SITE INTO PUBLIC RIGHT-OF-WAY.

18. CONTRACTOR SHALL COMPLETELY COVER OPEN SECTION OF CHANNEL WITH 20 MIL PLASTIC OR CONCRETE BLANKETS AT ALL TIMES WHEN NOT WORKING IN AREA. WATER OF ANY KIND OR SOURCE SHALL NOT BE ALLOWED TO GET UNDER CHANNEL LINING. ANCHOR COVER WITH SUFFICIENT SANDBAGS TO RETAIN COVER IN PLACE WITHOUT EXCEPTION. CONTRACTOR SHALL TAKE ANY AND ALL MEASURES TO KEEP WATER FROM FLOWING DOWN TRENCH PATH/OPEN EXCAVATION AND GETTING UNDER CHANNEL LINING.

AMAFCA GENERAL NOTES:

1. AMAFCA FIELD ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY WORK WITHIN THE AMAFCA R/W. TELEPHONE (505) 884-2215.
2. NO CONSTRUCTION WITHIN THE NORTH DIVERSION CHANNEL IS PERMITTED BETWEEN MAY 15 AND OCTOBER 15 WITHOUT WRITTEN PERMISSION.
3. ALL SUBGRADE, BACKFILL, AND EMBANKMENT SHALL BE COMPACTED TO 95% ($\pm 2\%$ OF OPTIMUM MOISTURE PER ASTM D-1557) WITHIN THE AMAFCA R/W. TESTING REPORTS SHALL BE PROVIDED TO AMAFCA FIELD ENGINEER.
4. AMAFCA FIELD ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO FINAL INSPECTION OF ANY FACILITIES WITHIN THE AMAFCA R/W.
5. ALL DISTURBED GROUND AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SECTION 1012 NATIVE GRASS SEEDING, AS CURRENTLY UPDATED.
6. ANY MONUMENTS DISTURBED OR DESTROYED SHALL BE REPLACED BY A NM LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE. AMAFCA SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY MONUMENT PLACEMENT.
7. THE MAXIMUM WHEEL LOAD ALLOWED IN AMAFCA CHANNELS IS 12,000 POUNDS.
8. NO TRACKED VEHICLES ARE ALLOWED IN AMAFCA CHANNELS REGARDLESS OF LOCATION WITHOUT WRITTEN PERMISSION FROM AMAFCA.

9. CRANES OPERATING IN AMAFCA CHANNELS WITH OUTRIGGERS SHALL LIMIT OUTRIGGER FOOTPRINT LOAD AREA TO LESS THAN 12,000 POUNDS.

10. TO ENSURE REPAIRS OF DAMAGES CAUSED BY CONSTRUCTION ACTIVITIES, THE CONTRACTOR IS REQUIRED TO PURCHASE STANDARD FORM OWNER'S PROTECTIVE LIABILITY INSURANCE NAMING AMAFCA AS ADDITIONALLY NAMED INSURED IN THE AMOUNTS SPECIFIED IN SECTION 5.2.3 OF THE COA STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.

11. ALL CONSTRUCTION DEBRIS, INCLUDING REMOVAL ITEMS, SHALL BE REMOVED FROM THE BOTTOM OF THE CHANNEL PRIOR TO THE END OF EACH DAY. DEBRIS SHALL NOT REMAIN IN THE CHANNEL OVERNIGHT OR WHEN FLOW IS PRESENT IN THE CHANNEL.

GENERAL NOTES:

1. TYPICAL SECTIONS ON SHEETS 3 & 4 ARE MEANT TO SHOW EXTENT OF POSSIBLE GROUT STABILIZATION REQUIRED AT SUBGRADE BEHIND WALL OF TRAIL NOTCH, AND TO PROVIDE GENERAL INFORMATION ABOUT THE GEOMETRY OF THE TRAIL WITH RESPECT TO THE GEOMETRY OF THE EXISTING AND FUTURE BRIDGE ABUTMENTS. SEE SHEETS 8 & 9 FOR SECTIONS SHOWING SPECIFIC DETAILS OF NOTCH CONSTRUCTION.

2. GRADE ELEVATIONS, WHERE NOTED, ARE FOR FINISHED TRAIL SURFACE AT CENTER LINE CONST, UNLESS NOTED OTHERWISE.

3. ALL WORK WITHIN THE EXISTING NORTH DIVERSION CHANNEL CROSS-SECTION MUST BE COMPLETED BETWEEN OCTOBER 15 AND MAY 1 OF ANY GIVEN YEAR, IN ACCORDANCE WITH THE SPECIFICATIONS. CONSTRUCTION WINDOW CANNOT BE EXTENDED IN EITHER DIRECTION.

4. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED TRAIL GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.

5. COHESIONLESS STRATA (I.E. CLEAN SANDS AND SIMILAR MATERIAL) LOCATED WITHIN THE GROUT STABILIZATION ZONES INDICATED ON THE PROJECT PLANS MUST BE GROUT STABILIZED PRIOR TO CONSTRUCTION OF TRAIL. SEE GEOTECHNICAL ENGINEERING REPORT PREPARED BY TERRACON CONSULTANTS, INC. ON JULY 1, 2011 FOR DETAILED INFORMATION. SEE SUPPLEMENTAL TECHNICAL SPECIFICATION 720 FOR GENERAL INFORMATION AND REQUIREMENTS PRIOR TO TRAIL EXCAVATION.

6. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

7. SEE SPECIFICATIONS SECTION 200 FOR GENERAL EARTHWORK REQUIREMENTS. AT SUBGRADE BENEATH SURFACE OF TRAIL, SCARIFY TO A MINIMUM DEPTH OF 8 INCHES AND CONDITION TO A MOISTURE CONTENT WITHIN + OR - 2% OF OPTIMUM. COMPACT TO A MINIMUM OF 95% MAXIMUM DRY DENSITY PER ASTM D1557. AT SECTIONS OF NOTCH THAT ARE SLOPED 2V:1H AND 1V:2H COMPACTION IS NOT REQUIRED. PROVIDE A CLEAN, SMOOTH, FINISHED SURFACE BENEATH NEW CONCRETE/SHOTCRETE.

8. AT LIMITS OF REMOVAL OF EXISTING CONCRETE CHANNEL LINING, SAWCUT A MINIMUM OF 2" DEPTH. BREAK OUT CONCRETE AS REQUIRED. PROTECT EXISTING TRANSVERSE CHANNEL REINFORCING WHICH WILL EXTEND INTO NEW CONCRETE. SEE DETAIL L (SHEET 11 OF 25) FOR JOINT AT EXISTING AND NEW CONCRETE TRANSITIONS.

9. SEE DETAIL K (SHEET 11 OF 25) FOR JOINT AT CENTERLINE OF TRAIL.

10. SUPPORT REINFORCING AS REQUIRED TO ELIMINATE UNACCEPTABLE MOVEMENT DURING CONCRETE PLACEMENT OPERATIONS. AS A MINIMUM, PROVIDE METAL CHAIRS WITH SAND PLATES @ 5'-0" ON CENTER MAXIMUM. BRICKS, CONCRETE BLOCKS, OR CONCRETE MASONRY BLOCKS SHALL NOT BE USED AS REBAR SUPPORTS.

11. EACH REGULATORY AND WARNING SIGN FACE SHOWN ON PLANS SHALL MEET THE SPECIFICATIONS IN THE M.U.T.C.D. (CURRENT EDITION) FOR PROPER ARRANGEMENT, LETTER SPACING, HEIGHT, AND SERIES, SYMBOLS, AND BORDERS. MOUNTED SIGN SUPPORTS ARE TO BE INCIDENTAL TO SIGN PAY ITEM.

12. CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL CONSTRUCTION SIGNING UNTIL PROJECT HAS BEEN ACCEPTED BY THE COA.

SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
FIELD NOTES		ALBUQUERQUE GEOGRAPHIC REFERENCE SYSTEM		CONTRACTOR	
NO.	BY	DATE	15.F16 (1 3/4" ALUMINUM DISK)	WORK	DATE
1	PRECISION SURVEYS	2009	NM STATE PLANE COORDINATES CENTRAL ZONE NAD 1983 ELEVATION= 5092.856 (NAVD 1988) SW QUADRANT OF OSUNA RD. NE. & THE NORTH DIVISION CHANNEL EXPOSED TO TOP OF CONCRETE BASE OF STREET	CONTRACTOR SIGNED BY ACCEPTANCE BY FIELD DRAWING BY CORRECTED BY	DATE DATE DATE DATE DATE
				MICRO-FILM INFORMATION	
				RECORDED BY	DATE
				NO.	

ENGINEER'S SEAL

18764
JAMES BARR
NEW MEXICO U.S.A.
Exp. 12/31/12

REVISIONS		DESIGN	
NO.	DATE	BY	DATE
		J.HALL	07/29/2011
		D.RAY	07/29/2011
		J.BARR	07/29/2011

Two working days before you file
CALL NEW MEXICO ONE CALL SYSTEM
260-1990

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engineers | planners | scientists
500 4th Street NW Suite 403
Bank of America Centre
Albuquerque, NM 87102

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: **OSUNA ROAD CHANNEL NOTCH
GENERAL NOTES**

Design Review Committee
APPROVED
OCT 07 2011
DESIGN REVIEW COMMITTEE

City Engineer Approval
APPROVED
OCT 07 2011
CITY ENGINEER

Mo./Day/Yr.

Mo./Day/Yr.

Federal Control No.
A300950

City Project No.
5575.93

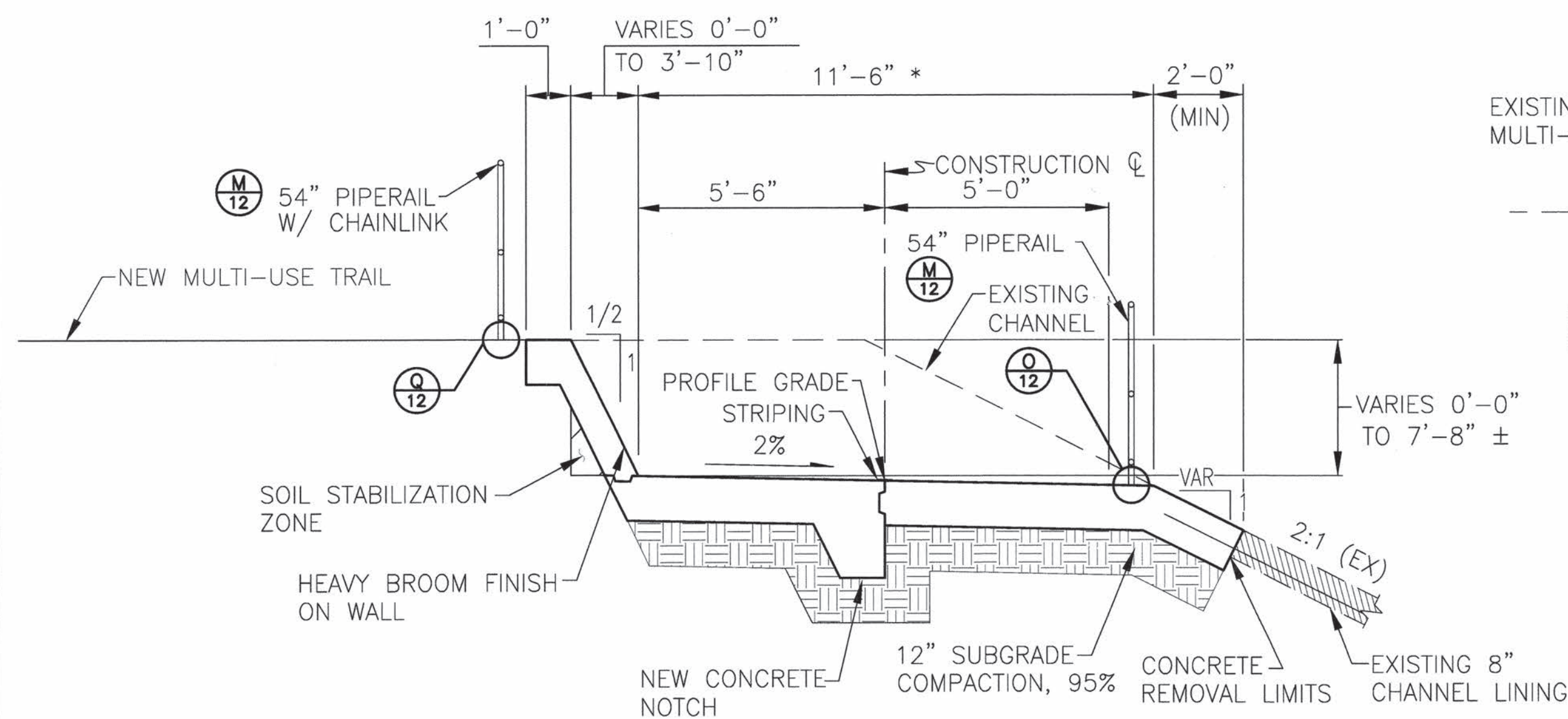
Zone Map No.
E16, E17

Sheet
2

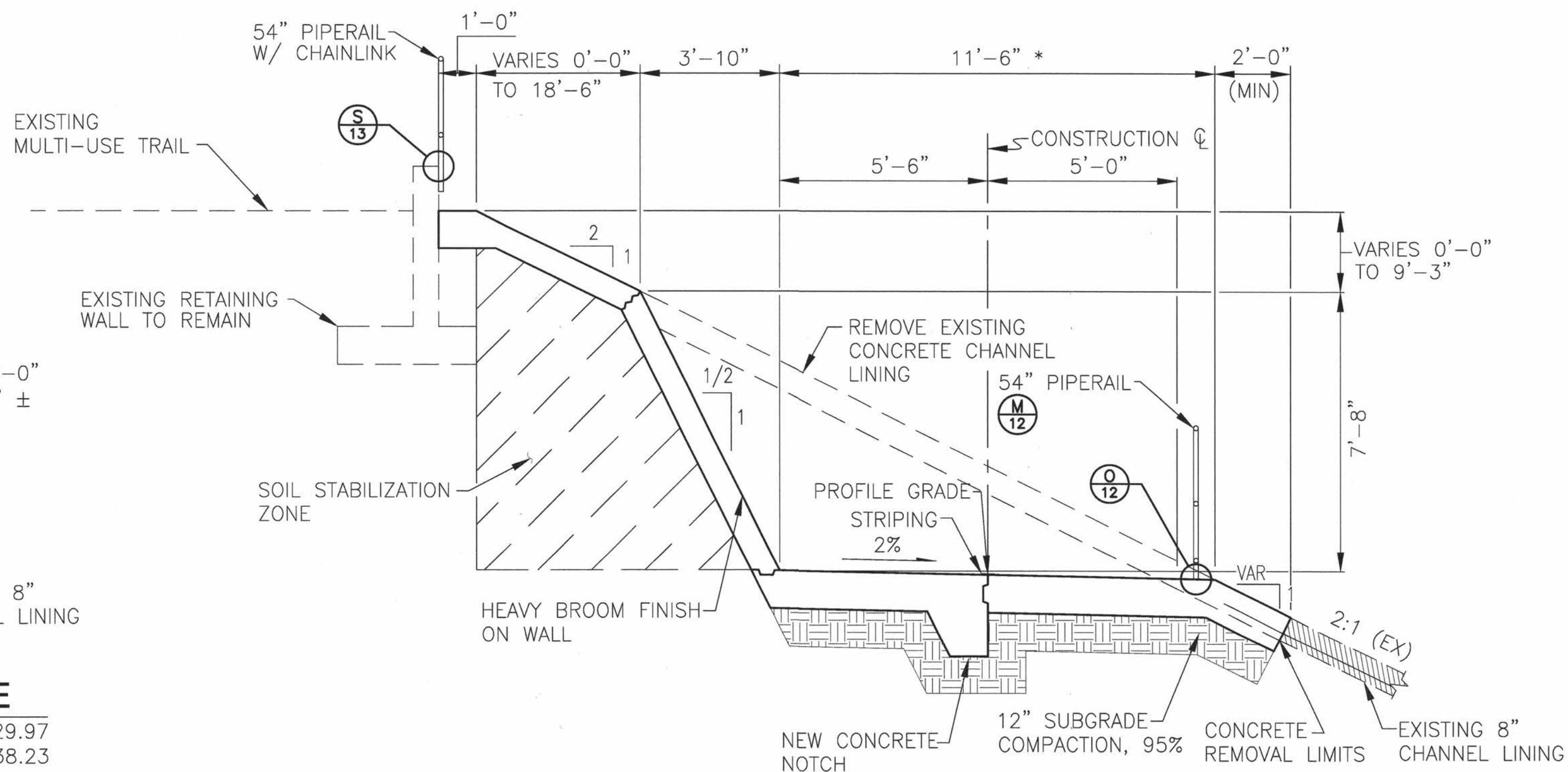
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25

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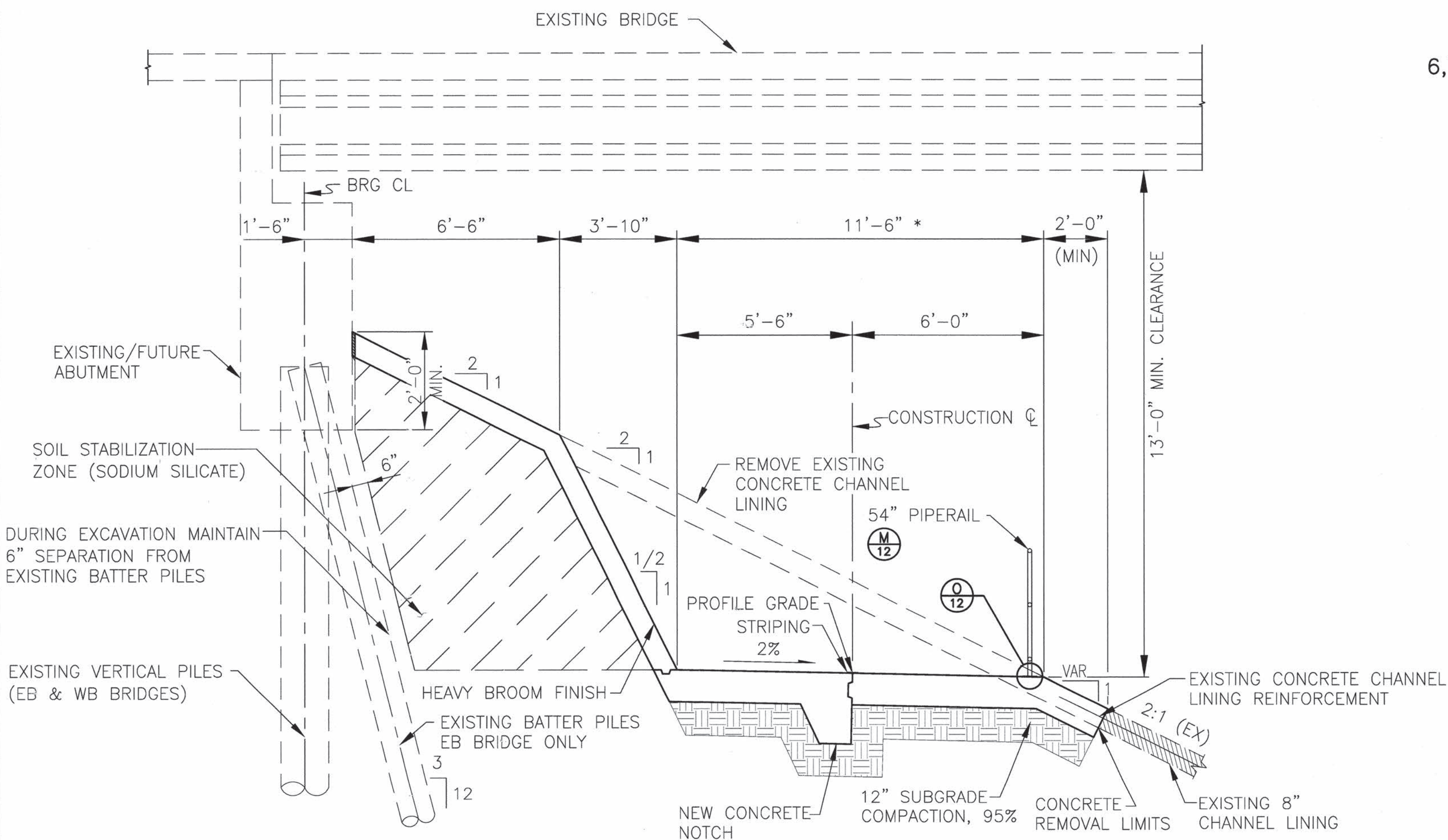
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1
SCALE: 3/8" = 1'-0"
STA 10+29.97 TO STA 12+29.97
STA 25+11.14 TO STA 27+38.23
6,7,16,17,23,24



2
SCALE: 3/8" = 1'-0"
STA 12+29.97 TO STA 13+95
STA 15+10 TO STA 25+11.14
6,7,17 THRU 23

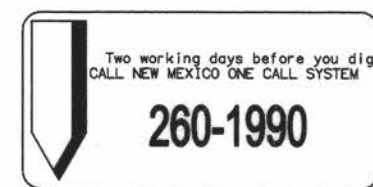


3
SCALE: 3/8" = 1'-0"
STA 13+95 TO STA 15+10
6,18

NOTES - SOIL GROUT STABILIZATION:

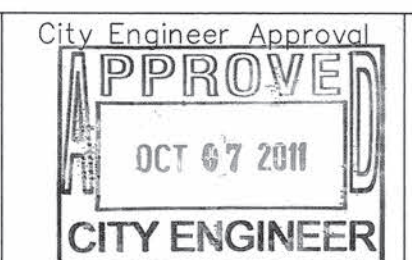
1. THE SUBCONTRACTOR PERFORMING THE SOIL GROUT STABILIZATION SHALL MEET THE PREQUALIFICATION REQUIREMENTS AS STATED IN THE SUPPLEMENTAL TECHNICAL SPECIFICATION FOR CHEMICAL GROUT UNDERPINNING. IF REQUESTED BY THE OWNER, CONTRACTOR SHALL PROVIDE REFERENCES FOR PREVIOUSLY COMPLETED PROJECTS.
2. A DETAILED SOIL GROUT STABILIZATION WORK PLAN SHALL BE SUBMITTED TO THE COA 30 DAYS PRIOR TO INITIATING THE WORK. THE WORK PLAN SHALL SHOW THE LOCATION AND GROUT-PIPE INSTALLATION PROCEDURES. THE WORK PLAN SHALL ALSO SHOW THE BASIS FOR ESTABLISHING GROUT TARGET VOLUMES AT EACH PRIMARY AND SECONDARY GROUT PORT AND THE EQUIPMENT TO BE USED IN THE MIXING AND GROUTING PROCEDURES. CERTIFICATION OF THE GROUT MIXTURE AND CHEMICAL COMPOSITION SHALL BE INCLUDED.
3. THE GROUTING CONTRACTOR SHALL PERFORM GROUT DESIGN STUDIES TO DEMONSTRATE AN END PRODUCT OF THE STABILIZED SOIL WHICH ACHIEVES A MINIMUM UNCONFINED STRENGTH OF 50 PSI BUT A MAXIMUM UNCONFINED STRENGTH OF 100 PSI AS TO ALLOW FOR EXCAVATION OPERATIONS. RESULTS OF THESE TESTS SHALL BE SUBMITTED TO THE COA FOR REVIEW AND APPROVAL.
4. THE COA SHALL BE NOTIFIED 30 DAYS PRIOR TO THE SCHEDULED DATE OF THE GROUTING OPERATIONS. THE COA ENGINEER SHALL BE PRESENT AT THE SITE DURING THE INITIAL GROUTING OPERATIONS.

* TRANSVERSE BULL FLOAT TINE
GROOVE FINISH, 1/4" DEPTH



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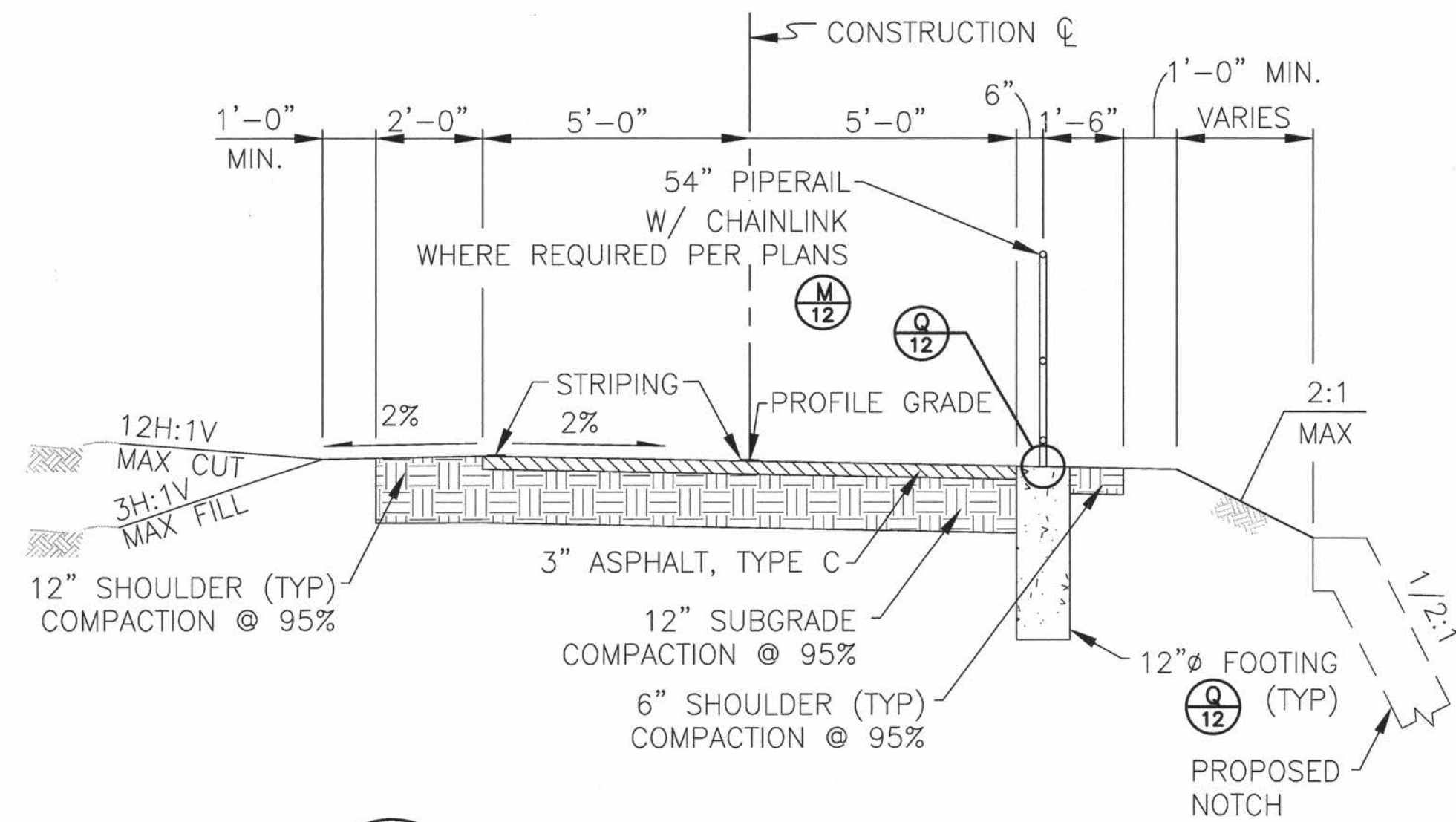
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
TITLE: **OSUNA ROAD CHANNEL NOTCH
TYPICAL SECTIONS**



Federal Control No. A300950 City Project No. 5575.93 Zone Map No. E16, E17 Sheet 3 of 25

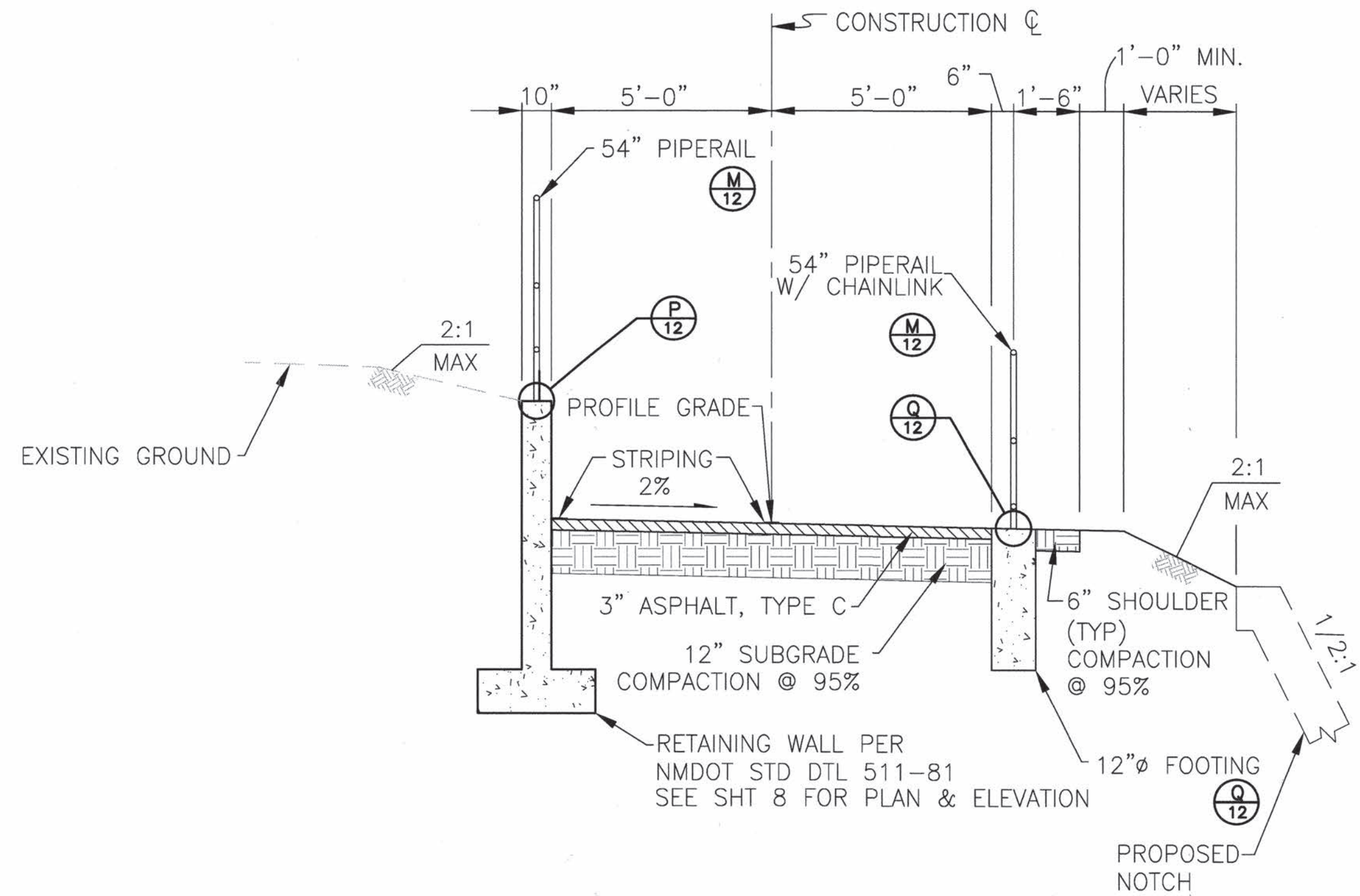
RECORD DRAWING

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	DATE	BY	DATE	ALBUQUERQUE GEOGRAPHIC REFERENCE SYSTEM	CONTRACTOR	WORK DATE	DATE
1	2009	PRECISION SURVEYS	2009	15-E16 (1 3/4" ALUMINUM DISK)	15-E16 (1 3/4" ALUMINUM DISK)	15-E16 (1 3/4" ALUMINUM DISK)	15-E16 (1 3/4" ALUMINUM DISK)
				NM STATE PLANE COORDINATES			
				CENTRAL ZONE NAD 1983			
				ELEVATION= 5092.856 (NAVD 1988)			
				SW QUADRANT OF OSUNA RD. NE. &			
				THE NORTH DIVISION CHANNEL EXPOSED			
				TO TOP OF CONCRETE BASE OF STREET			
				LIGHT STANCHION			



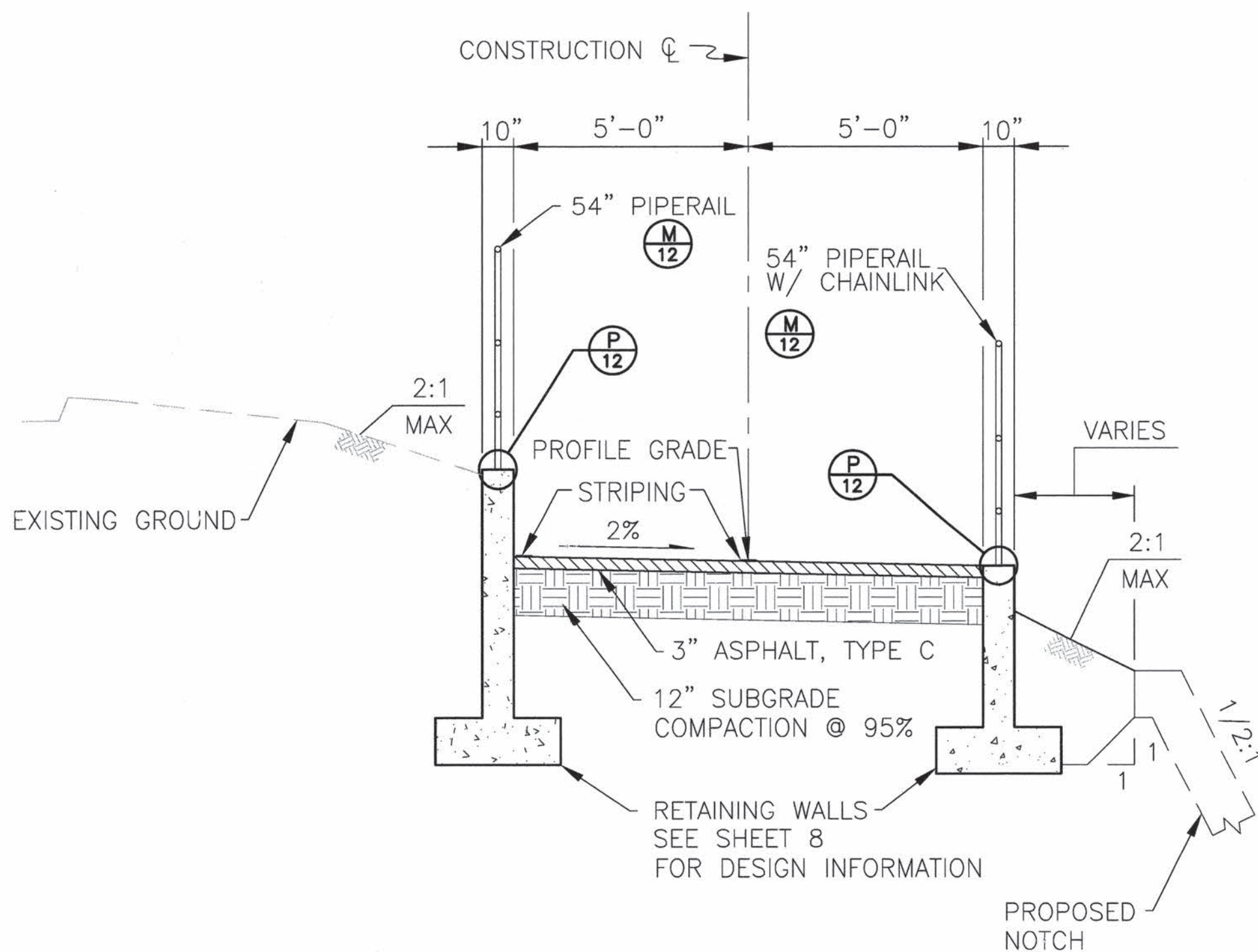
4 MULTI-USE TRAIL TYPICAL SECTION
SCALE: 3/8" = 1'-0"
SOUTH TRAIL STA 1+00 TO STA 1+18.66
NORTH TRAIL STA 1+20 TO STA 3+01.67

11,16,24



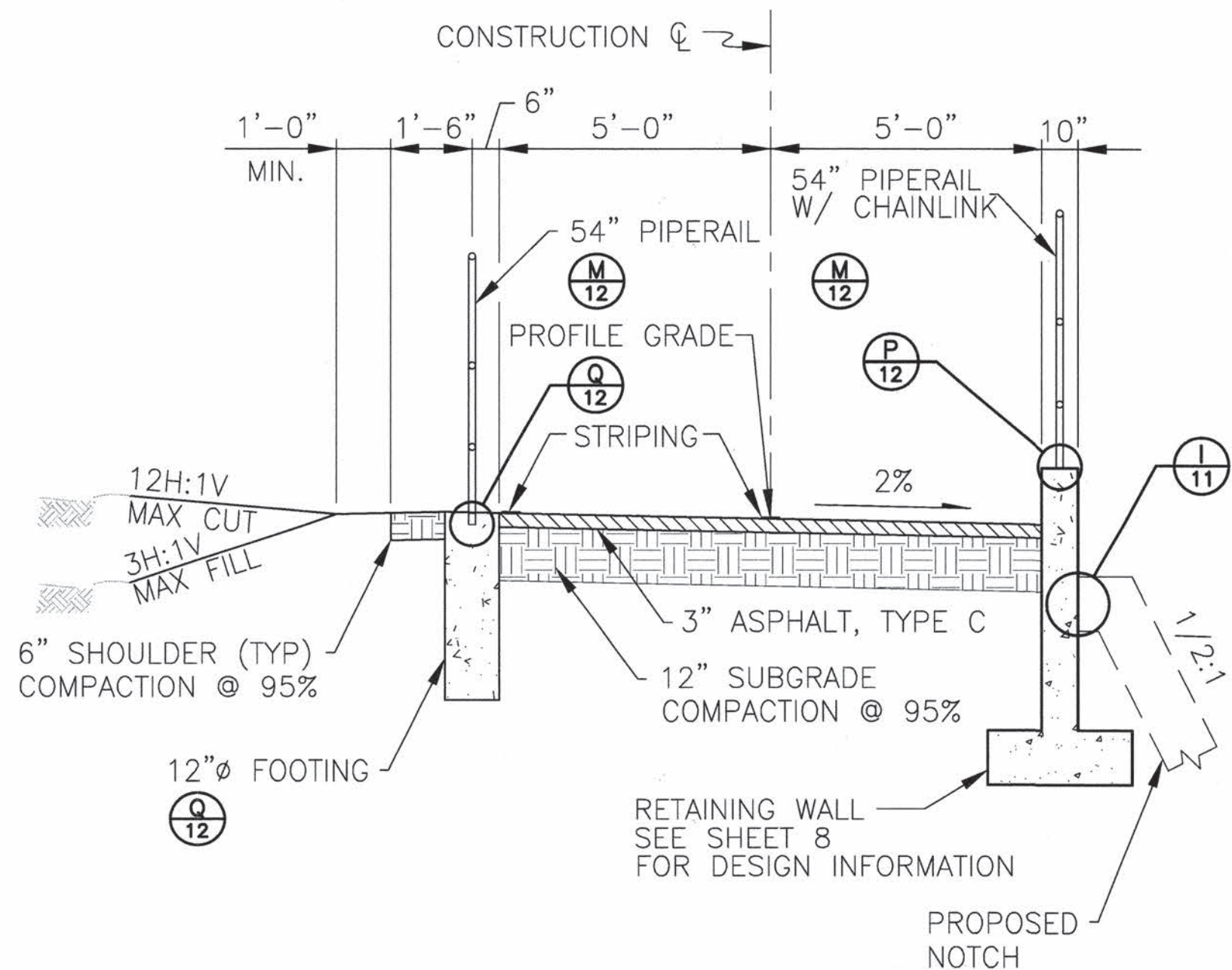
5 MULTI-USE TRAIL TYPICAL SECTION
SCALE: 3/8" = 1'-0"
SOUTH TRAIL STA 1+18.66 TO STA 1+84.69

8,16



6 MULTI-USE TRAIL TYPICAL SECTION
SCALE: 3/8" = 1'-0"
SOUTH TRAIL STA 1+84.69 TO STA 2+66.91

8,16,17



7 MULTI-USE TRAIL TYPICAL SECTION
SCALE: 3/8" = 1'-0"
SOUTH TRAIL STA 2+66.91 TO STA 3+44.56

8,17

260-1990

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Albuquerque, NM 87102

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: **OSUNA ROAD CHANNEL NOTCH TYPICAL SECTIONS**

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED OCT 07 2011 DESIGN REVIEW COMMITTEE	APPROVED OCT 07 2011 CITY ENGINEER		
Federal Control No. A300950	City Project No. 5575.93	Zone Map No. E16, E17	Sheet 4 of 25

RECORD DRAWING



NO.	DATE	REVISIONS	BY
1		DESIGN	
		DESIGNED BY: JHALL	DATE: 07/29/2011
		DRAWN BY: DGRAY	DATE: 07/29/2011
		CHECKED BY: JBARR	DATE: 07/29/2011

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	FIELD NOTES	ALBUQUERQUE GEOGRAPHIC REFERENCE SYSTEM	CONTRACTOR	DATE	DATE
1	PRECISION SURVEYS	15-E16 (1 3/4" ALUMINUM DISK)	WORK BY	DATE	DATE
		NM STATE PLANE COORDINATES	FIELD ACCEPTANCE BY	DATE	DATE
		CENTRAL ZONE NAD 1983	FIELD CORRECTION BY	DATE	DATE
		ELEVATION = 5092.856 (NAVD 1988)	DRAWINGS BY	DATE	DATE
		SW QUADRANT OF OSUNA RD. NE. &	CORRECTED BY	DATE	DATE
		THE NORTH DIVISION CHANNEL EXPOSED	RECORDED BY	DATE	DATE
		TO TOP OF CONCRETE BASE OF STREET	NO.		
		LIGHT STANCHION			

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ESTIMATED QUANTITIES				NOTCH SHEETS										
ITEM ID NO.	ITEM DESCRIPTION	UNIT	TOTAL	6	7	16	17	18	19	20	21	22	23	24
301.020	SUBGRADE PREP. 12" AT 95% COMPACTION, CIP	SY	767	—	—	274	153	—	—	—	—	—	—	340
336.05X	BIKE TRAIL ASPHALT CONCRETE, TYPE C, 3" THICK, CIP.	SY	624	—	—	210	122	—	—	—	—	—	—	292
343.030	EXISTING PAVEMENT, ASPHALT CONCRETE, MORE THAN 4" THICK, SAWCUT, REMOVE & DISPOSE, COMPL.	SY	565	—	—	198	109	—	—	—	—	—	—	258
441.001	REFLECTORIZED PLASTIC PAVEMENT MARKINGS, 4" WIDTH YELLOW	LF	2,198	1,000	1,198	—	—	—	—	—	—	—	—	—
441.001	REFLECTORIZED PLASTIC PAVEMENT MARKINGS, 4" WIDTH WHITE	LF	384	240	144	—	—	—	—	—	—	—	—	—
450.001	ALUMINUM PANEL SIGN	SF	24	12	12	—	—	—	—	—	—	—	—	—
450.01	SQUARE TUBE STEEL POSTS & BASE POSTS FOR ALUMINUM PANEL SIGN	LF	80	40	40	—	—	—	—	—	—	—	—	—
451.102	SIGN, POST & BASE POST, REMOVE & RELOCATE	EA	1	—	—	1	—	—	—	—	—	—	—	—
511.300	REINFORCED CONCRETE CLASS A, 3500 PSI, INCL. FORMWORK, CIP.	CY	1,732	247	200	78	174	207	253	252	247	200	206	115
540.020	CONCRETE BLOCK MASONRY RETAINING WALL, CONCRETE—FILLED CORE, NMDOT STD DTL 511—81, CIP.	SF	1,824	—	—	1,391	433	—	—	—	—	—	—	—
540.020	CONCRETE BLOCK MASONRY SINGLE HEADWALL, CONCRETE—FILLED CORE, NMDOT STD DTL 511—03, CIP.	SF	100	—	—	—	100	—	—	—	—	—	—	—
540.020	CONCRETE BLOCK MASONRY RETAINING WALL, CONCRETE—FILLED CORE, DETAIL PER PROJECT PLANS, CIP.	SF	350	—	—	—	—	350	—	—	—	—	—	—
540.060	REINFORCING BARS, GRADE 60	LB	185,280	—	—	7,435	16,930	21,381	27,400	27,256	26,649	26,033	21,109	11,088
543.10X	PIPE RAILING, PEDESTRIAN PER DETAILS ON PROJECT PLANS, CIP.	LF	1,889	—	—	265	235	200	200	200	200	200	201	188
543.10X	PIPE RAILING, PEDESTRIAN PER DETAILS ON PROJECT PLANS, W/ CHAIN LINK FENCE, CIP.	LF	1,601	—	—	121	201	88	200	200	200	200	200	191
540.030	CONCRETE BLOCK MASONRY RETAINING WALL, INCL. FOUNDATION, REMOVE & DISPOSE, COMPL.	SF	1,130	—	—	784	346	—	—	—	—	—	—	—
543.10X	EXISTING SAFETY HANDRAIL, REMOVE & SALVAGE, COMPL.	LF	1,661	—	—	121	201	150	200	200	200	200	200	189
570.00X	EXISTING CHANNEL LINING REMOVAL, COMPL.	CY	1,233	—	—	9	116	158	202	201	197	143	156	51
910.005	DRAINLINE, 10" TO 18", REMOVE & DISPOSE, TRENCHING NOT INCL. CIP. SD 2125	LF	17	—	—	—	17	—	—	—	—	—	—	—
910.103	18" REINFORCED CONCRETE PIPE, CLASS III, FURNISH & PLACE IN OPEN TRENCH, CIP.	LF	17	—	—	—	17	—	—	—	—	—	—	—
XXX.XXX	18" RCP PIPE PENETRATION	EA	1	—	—	—	1	—	—	—	—	—	—	—

Two working days before you dig
CALL NEW MEXICO ONE CALL SYSTEM
260-1990

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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: **OSUNA ROAD CHANNEL NOTCH**
QUANTITY SUMMARY SHEET

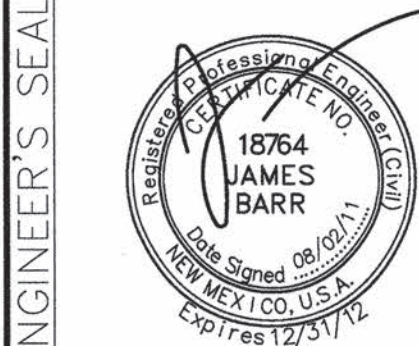
Design Review Committee

City Engineer Approval

Last Design Update

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

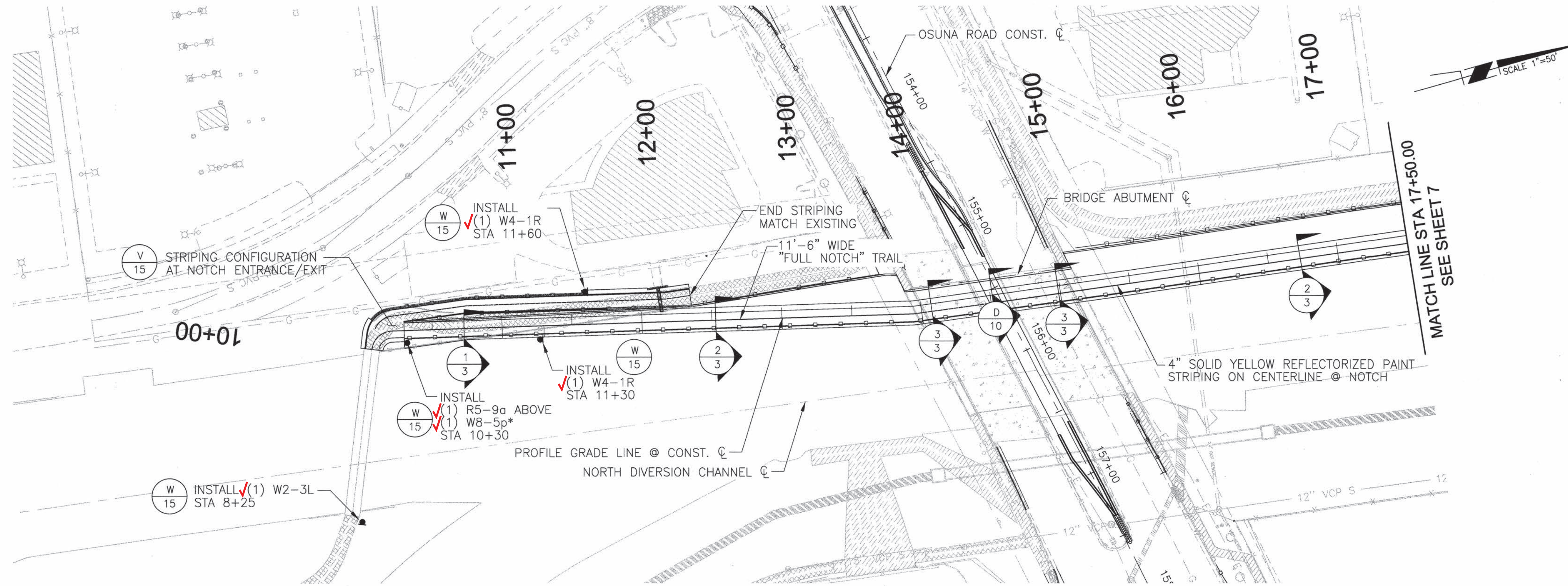
Federal Control No. A300950 City Project No. 5575.93 Zone Map No. E16, E17 Sheet 5 of 25



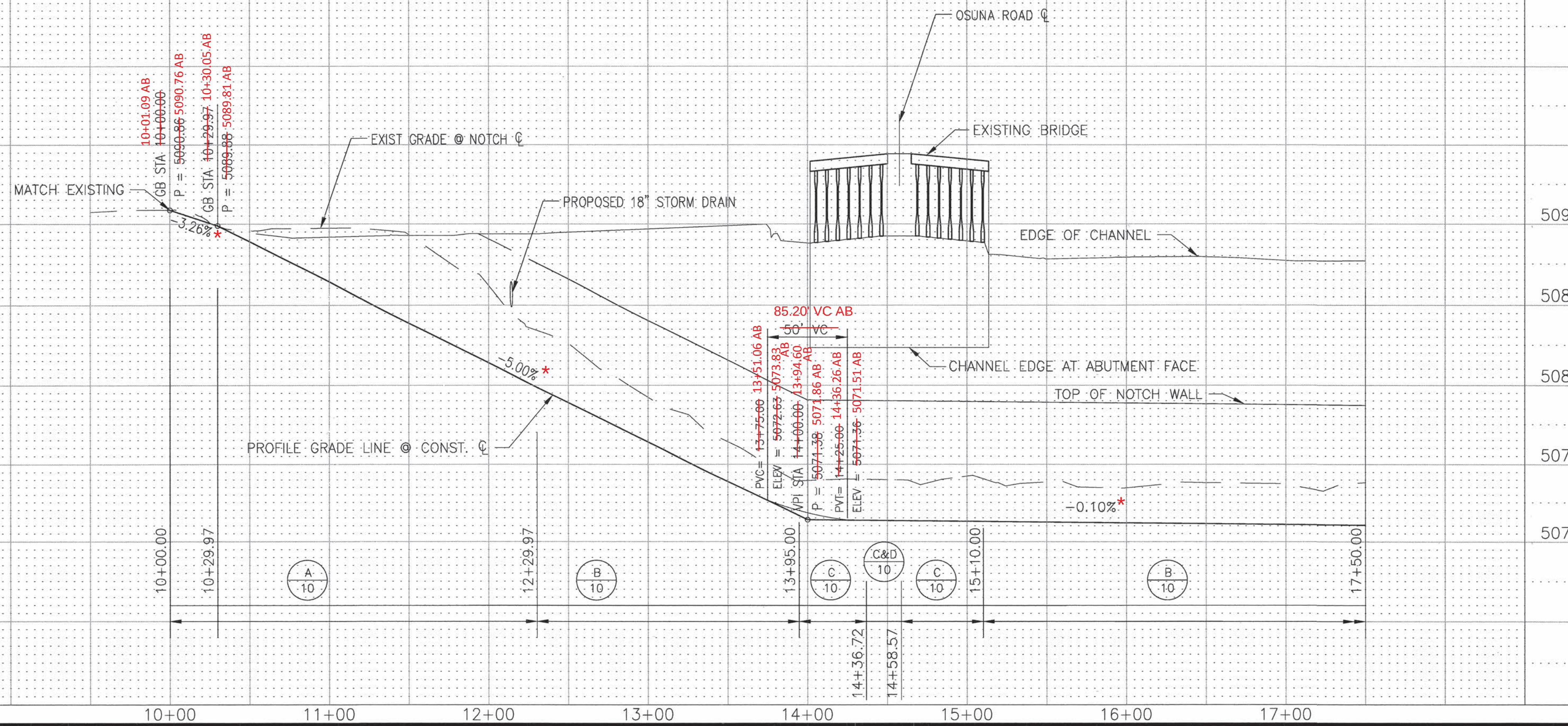
SURVEY INFORMATION				BENCH MARKS				AS BUILT INFORMATION			
FIELD NOTES		NO. DATE		ALBUQUERQUE GEOGRAPHIC REFERENCE SYSTEM		CONTRACTOR		DATE		DATE	
1	PRECISION SURVEYS	2009		15.F16 (1 3/4" ALUMINUM DISK)		WORK BY		DATE		DATE	
				NM STATE PLANE COORDINATES		INSPECTOR'S		DATE		DATE	
				CENTRAL ZONE NAD 1983		ACCEPTANCE BY		DATE		DATE	
				ELEVATION= 5092.856 (NAVD 1988)		FIELD		DATE		DATE	
				SW QUADRANT OF OSUNA RD. NE. &		ACCEPTATION BY		DATE		DATE	
				THE NORTH DIVISION CHANNEL EPOXIED		CORRECTED BY		DATE		DATE	
				TO TOP OF CONCRETE BASE OF STREET		RECORDED BY		DATE		DATE	
				LIGHT STANCHION		NO.					

RECORD DRAWING

G:\221706.00 - Osuna Road City of Albuquerque\CADD\DL\Natch\1706-PH-P06.dwg



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



DANGER!
DO NOT ENTER
CHANNEL IF
WATER IS OVER
TRAIL SURFACE

**SLIPPERY
WHEN WET**

✓ R5-9a
9"x12"
B/W, RB
TOTAL=2

✓ W8-5P*
12"x9"
B/Y, RB
TOTAL=2

W2-3R
18"x18"
B/Y, RB
TOTAL=1

✓ W2-3L
18"x18"
B/Y, RB
TOTAL=1

W4-1L
24"x24"
B/Y, RB
TOTAL=2

✓ W4-1R
24"x24"
B/Y, RB
TOTAL=2

* FOR LONGITUDINAL AND CROSS SLOPES,
REFER TO THE ATTACHED SURVEY SHEETS.

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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: **OSUNA ROAD CHANNEL NOTCH
PLAN & PROFILE
STA 10+00.00 TO STA 17+50.00**

Design Review Committee
APPROVE
OCT 07 2011
DESIGN
REVIEW COMMITTEE

City Engineer Approval
APPROVE
OCT 07 2011
CITY ENGINEER

Federal Control No.
A300950

City Project No.
5575.93

Zone Map No.
E16, E17

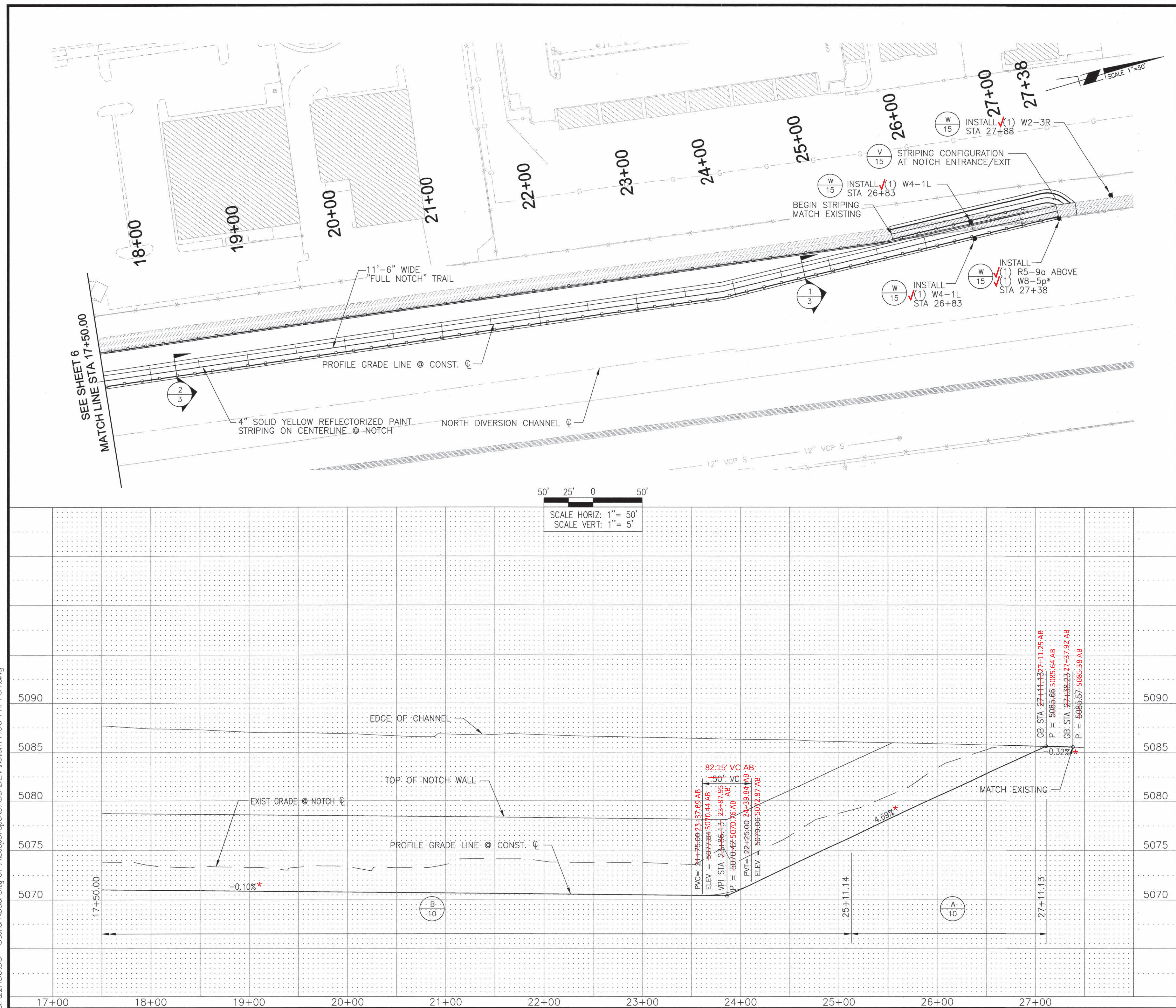
Sheet 6 of 25

RECORD DRAWING

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
FIELD NOTES		ALBUQUERQUE GEOGRAPHIC REFERENCE SYSTEM		CONTRACTOR	
NO. 1		15_E16 (1 3/4" ALUMINUM DISK)		WORK	
PRECISION SURVEYS		NM STATE PLANE COORDINATES		STATIONED BY	
DATE		CENTRAL ZONE NAD 1983		FIELD	
ELEVATION= 5092.856 (NAVD 1988)		DRAWINGS		DATE	
SW QUADRANT OF OSUNA RD. NE. &		CORRECTED BY		DATE	
THE NORTH DIVISION CHANNEL EXPOSED		MICRO-FILM INFORMATION		RECORDED BY	
TO TOP OF CONCRETE BASE OF STREET		NO.		DATE	
LIGHT STANCHION					



REVISIONS		REMARKS	
NO.		DATE	
DESIGNED BY: JHALL		DATE: 07/29/2011	
DRAWN BY: DRAY		DATE: 07/29/2011	
CHECKED BY: JBARR		DATE: 07/29/2011	



DANGER!
DO NOT ENTER
CHANNEL IF
WATER IS OVER
TRAIL SURFACE

SLIPPERY
WHEN WET

✓R5-9a
9"x12"
B/W, RB
TOTAL=2

✓ W8-5P*
12"x9"
B/Y, RB
TOTAL=2



* FOR LONGITUDINAL AND CROSS SLOPES,
REFER TO THE ATTACHED SURVEY SHEETS.



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CITY OF ALBUQUERQUE

MUNICIPAL DEVELOPMENT DEPARTMENT

ENGINEERING DIVISION

TITLE: **OSUNA ROAD CHANNEL NOTCH
PLAN & PROFILE
STA 17+50.00 TO STA 27+38.00**

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo.
-------------------------	------------------------	-------------	-----

Design Review Committee

APPROVED

OCT 07 2011

DESIGN
REVIEW COMMITTEE

City Engineer Approval

APPROVED

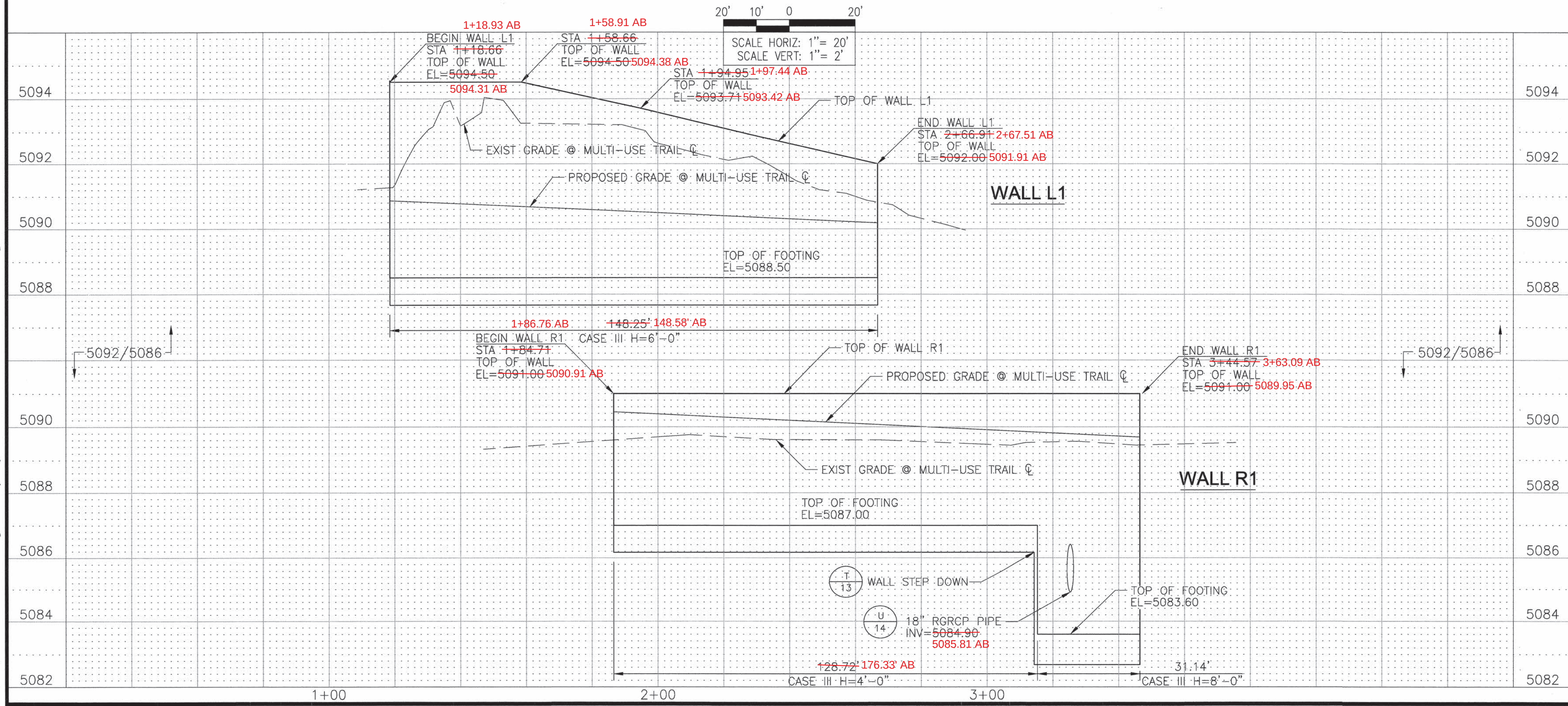
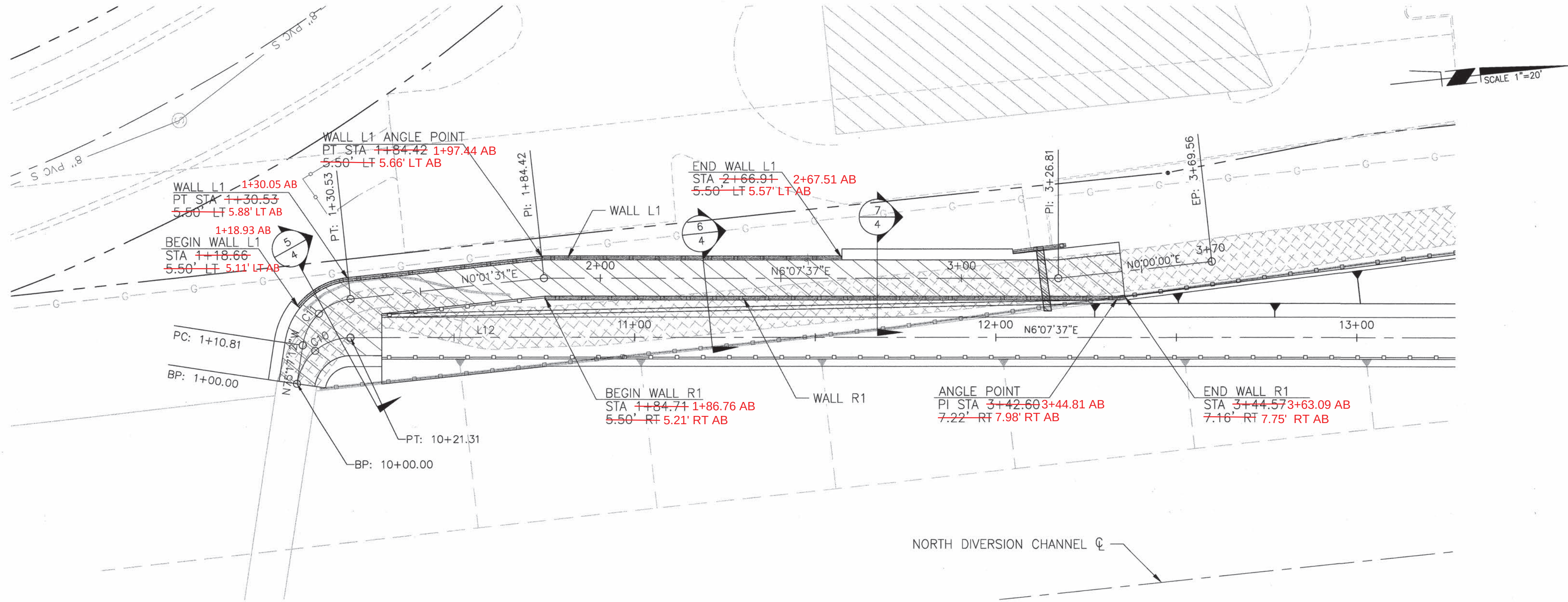
OCT 07 2011

CITY ENGINEER

Federal Control No.	City Project No.	Zone Map No.	Sheet	Of
A300950	5575.93	E16, E17	7	25

RECORD DRAWING

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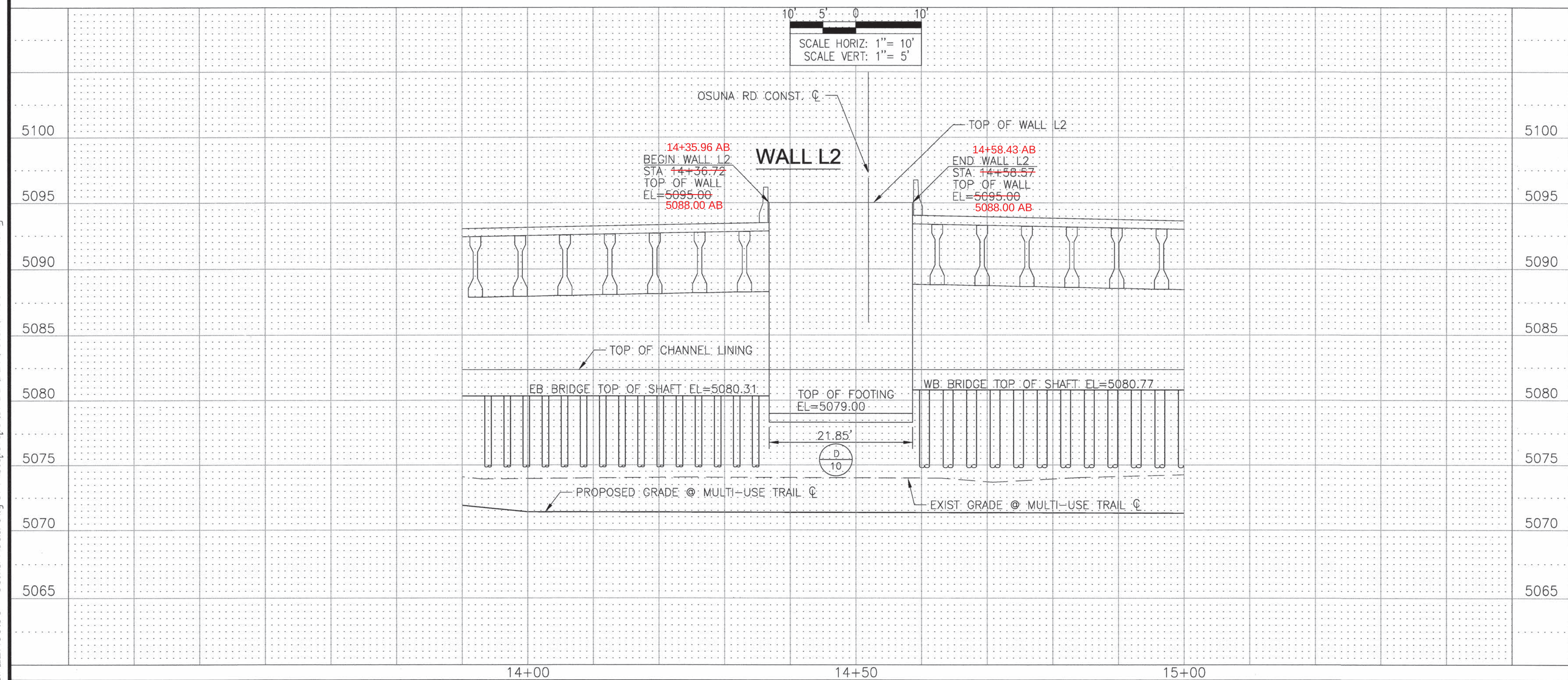
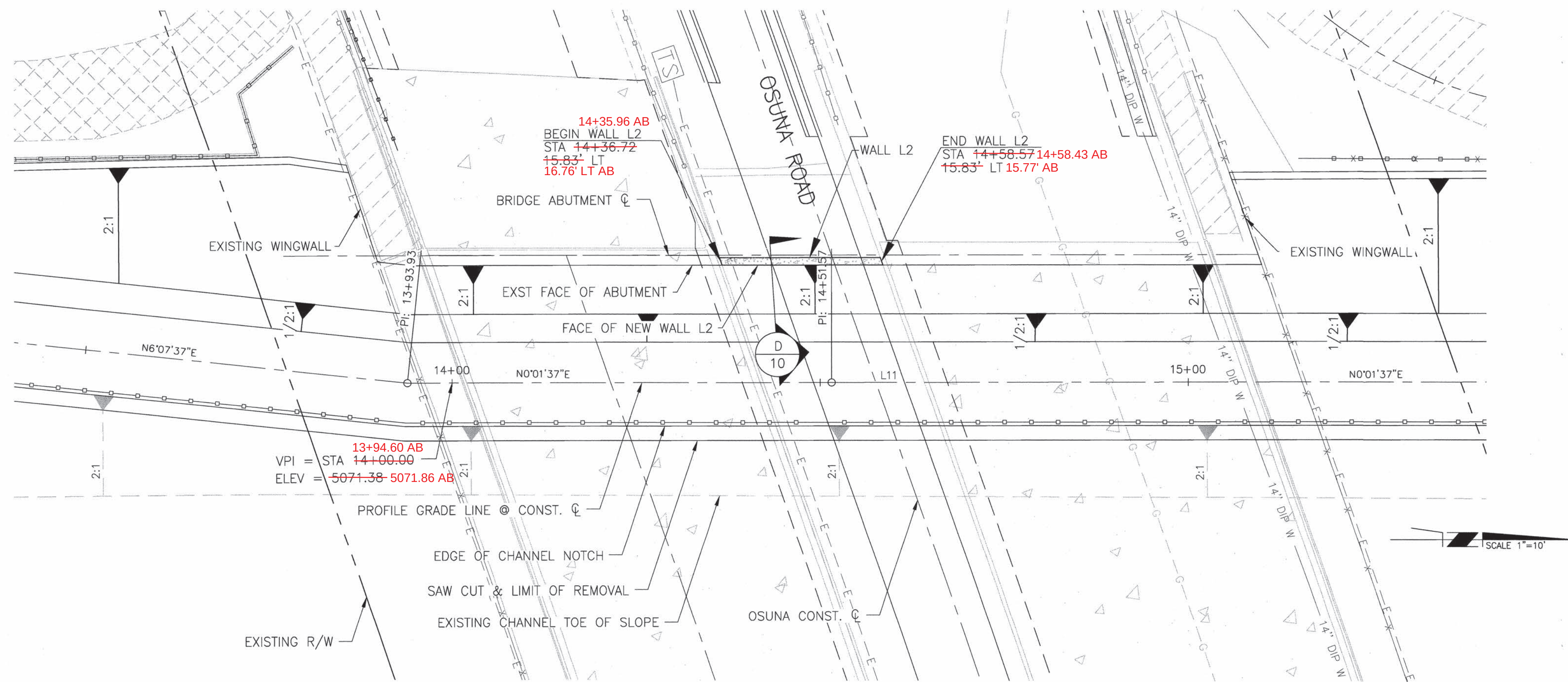
NOTE:
1. RETAINING WALL PER NMDOT
STD DWG 511-82-1 THRU 3



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CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION	
TITLE: OSUNA ROAD CHANNEL NOTCH MULTI-USE TRAIL RETAINING WALL PLAN AND PROFILE STA 1+18.66 TO STA 3+44.57	
Design Review Committee APPROVED OCT 07 2011 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED OCT 07 2011 CITY ENGINEER
Federal Control No. A300950	City Project No. 5575.93
Zone Map No. E16, E17	Sheet 8 of 25

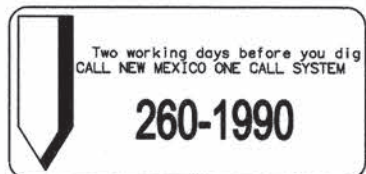
RECORD DRAWING

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		NO.	BY	DATE	ALBUQUERQUE GEOGRAPHIC REFERENCE SYSTEM 15_E16 (1 3/4" ALUMINUM DISK)	CONTRACTOR DATE	DATE
		1	PRECISION SURVEYS	2009	NM STATE PLANE COORDINATES CENTRAL ZONE NAD 1983 ELEVATION= 5092.856 (NAVD 1988) SW QUADRANT OF OSUNA RD. NE. & THE NORTH DIVISION CHANNEL EXPOSED TO TOP OF CONCRETE BASE OF STREET	WORK DATE	DATE
						REVISIONS DATE	DATE
						NO. DATE	DATE
						DESIGNED BY: JHALL DATE: 07/29/2011	DATE: 07/29/2011
						DRAWN BY: D.RAY DATE: 07/29/2011	DATE: 07/29/2011
						CHECKED BY: JBARR DATE: 07/29/2011	DATE: 07/29/2011



NOTES:

1. FRONT FACE OF WALL L2 SHOULD BE FLUSH WITH FACE OF EXISTING ABUTMENTS
2. PROVIDE 1/2" BIT. JOINT FILLER BETWEEN NEW WALL AND EXISTING ABUTMENT



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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: **OSUNA ROAD CHANNEL NOTCH
L2 RETAINING WALL PLAN AND PROFILE
STA 14+36.72 TO STA 14+58.57**

Design Review Committee

APPROVED

OCT 07 2011

DESIGN
REVIEW COMMITTEE

City Engineer Approval

APPROVED

OCT 07 2011

CITY ENGINEER

Federal Control No. A300950	City Project No. 5575.93	Zone Map No. E16, E17	Sheet 9	Of 25
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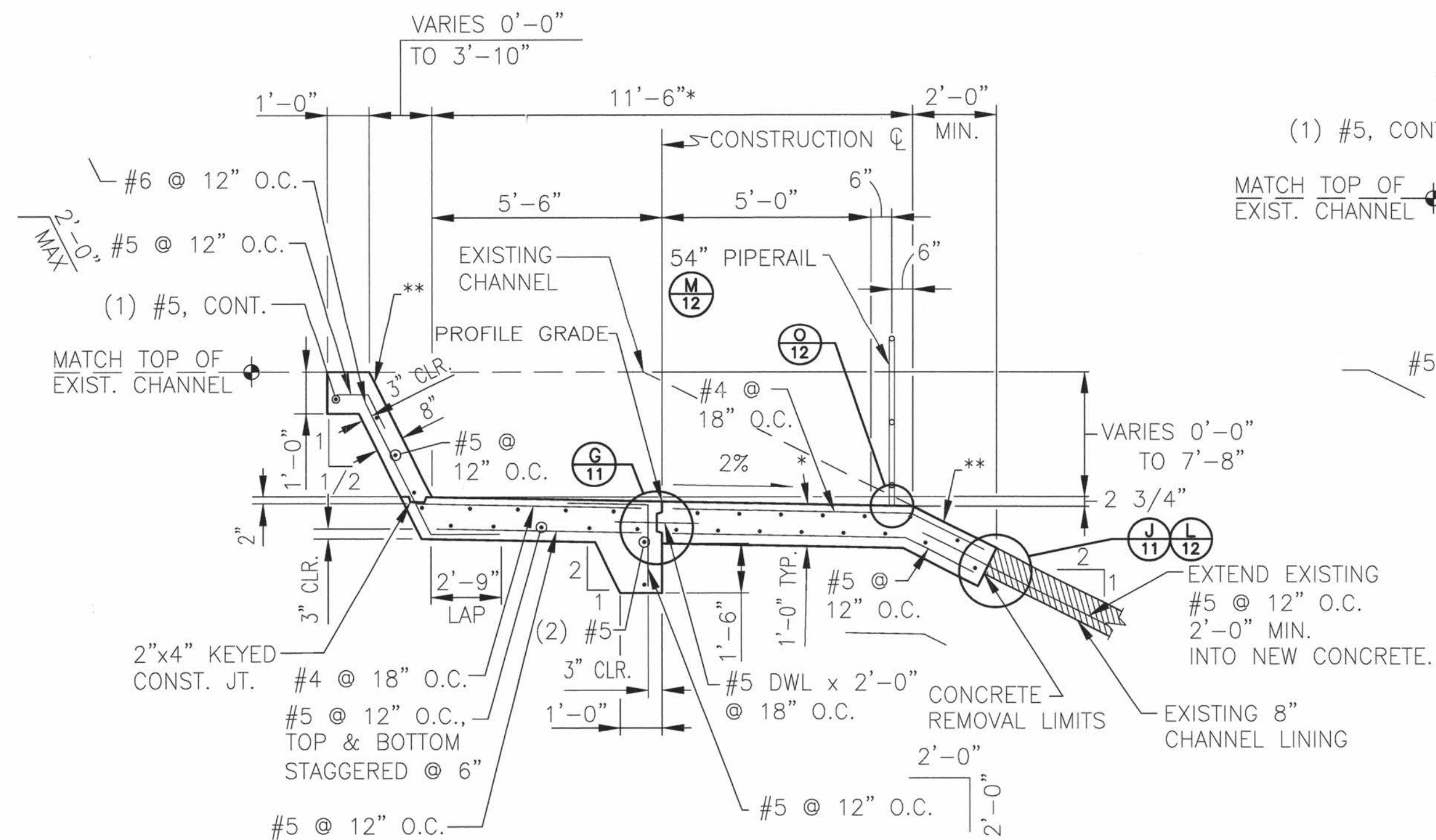
City Project No
5575.93

Zone Map No.
E16, E17

9 of 25

RECORD DRAWING

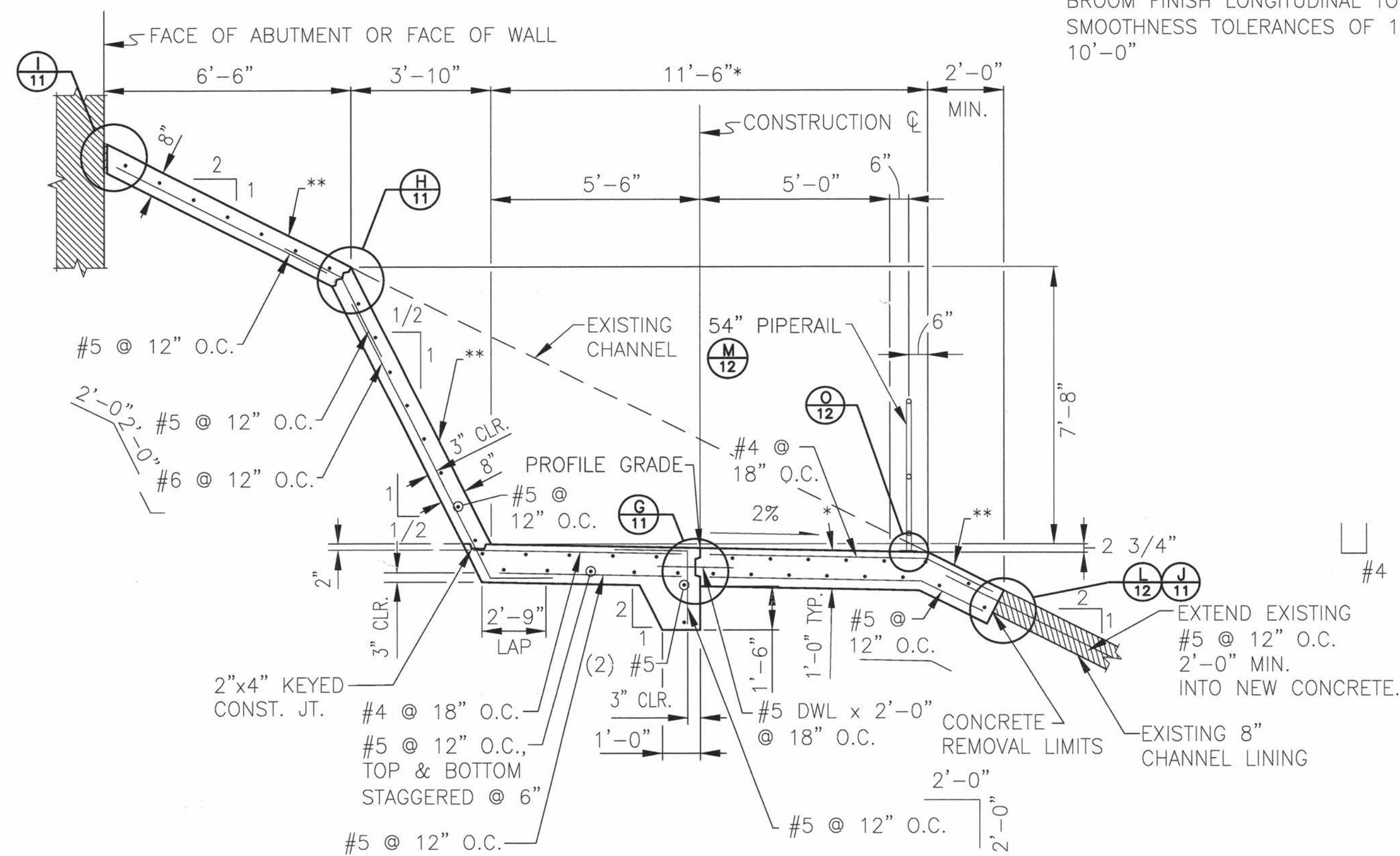
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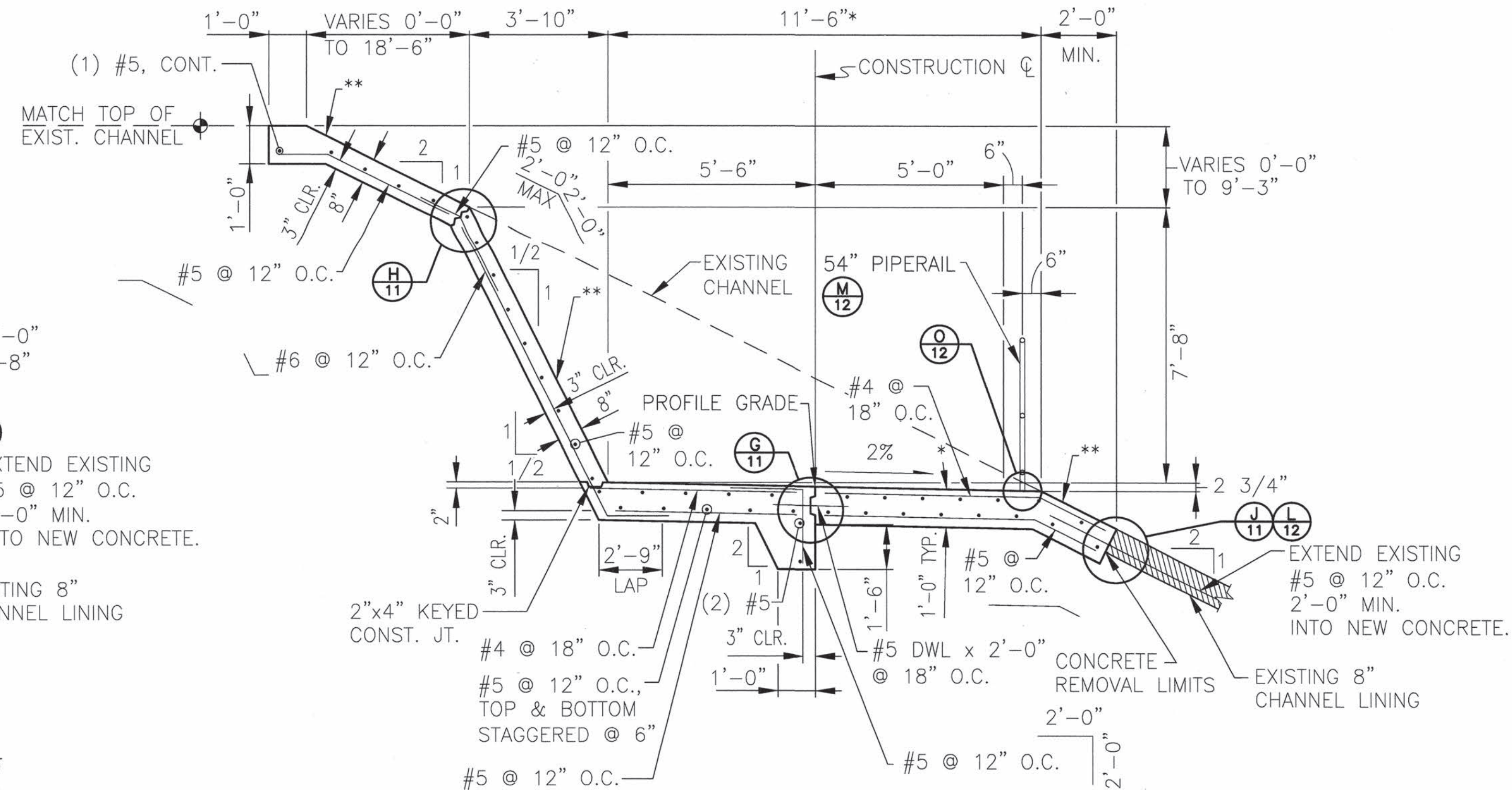
A
6,7
DETAIL SECTION AT CHANNEL EDGE
SCALE: 3/8" = 1'-0" STA 10+29.97 TO STA 12+29.97
STA 25+11.14 TO STA 27+38.23

* BULL FLOAT-GROOVE TINE FINISH 1/4" DEPTH

** NOTCH WALL SHALL BE PNEUMATICALLY PLACED CONCRETE w/ TROWELED & HEAVY BROOM FINISH LONGITUDINAL TO TRAIL w/ SMOOTHNESS TOLERANCES OF 1/2" PER 10'-0"

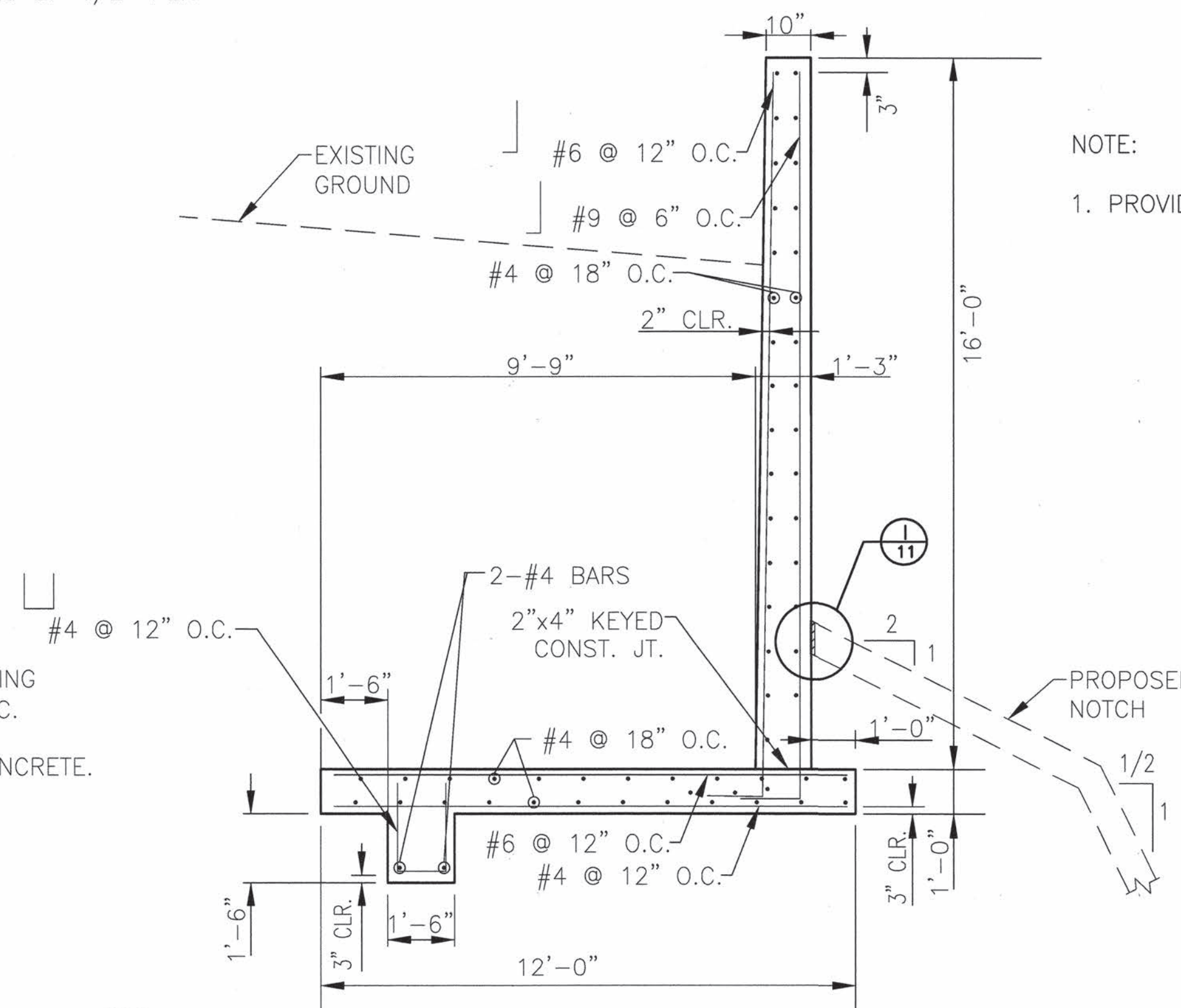


C
6
DETAIL SECTION AT BRIDGES
SCALE: 3/8" = 1'-0" STA 13+95 TO STA 15+10



B
6,7
DETAIL SECTION AT CHANNEL EDGE
SCALE: 3/8" = 1'-0" STA 12+29.97 TO STA 13+95
STA 15+10 TO STA 25+11.14

NOTE:
1. PROVIDE 2" CLEAR COVER TO REINFORCEMENT U.N.O.



D
6,9,18
DETAIL SECTION OF L2 RETAINING WALL
SCALE: 3/8" = 1'-0" STA 14+36.72 TO STA 14+58.57

NOTE: TRAIL SLAB PLACED IN SINGLE POUR.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	ALBUQUERQUE GEOGRAPHIC REFERENCE SYSTEM	DATE	FIELD NOTES	DATE		REMARKS
WORK	DATE	15 E16 (1 3/4" ALUMINUM DISK)	DATE	NO.	DATE		
STAKED BY	DATE	NM STATE PLANE COORDINATES	DATE	1	2009	BY	DESIGN
ACCEPTANCE BY	DATE	CENTRAL ZONE NAD 1983	DATE			DATE: 07/29/2011	REVISIONS
FIELD DRAWING BY	DATE	ELEVATION= 5092.856 (NAVD 1988)	DATE			DRAWN BY: DRAY	
CORRECTED BY	DATE	SW QUADRANT OF OSUNA RD. NE. &	DATE			CHECKED BY: JBARR	
MICRO-FILM INFORMATION		THE NORTH DIVISION CHANNEL EXPOSED	RECORDED BY		DATE: 07/29/2011		
		TO TOP OF CONCRETE BASE OF STREET	NO.		DATE: 07/29/2011		
		LIGHT STATION					

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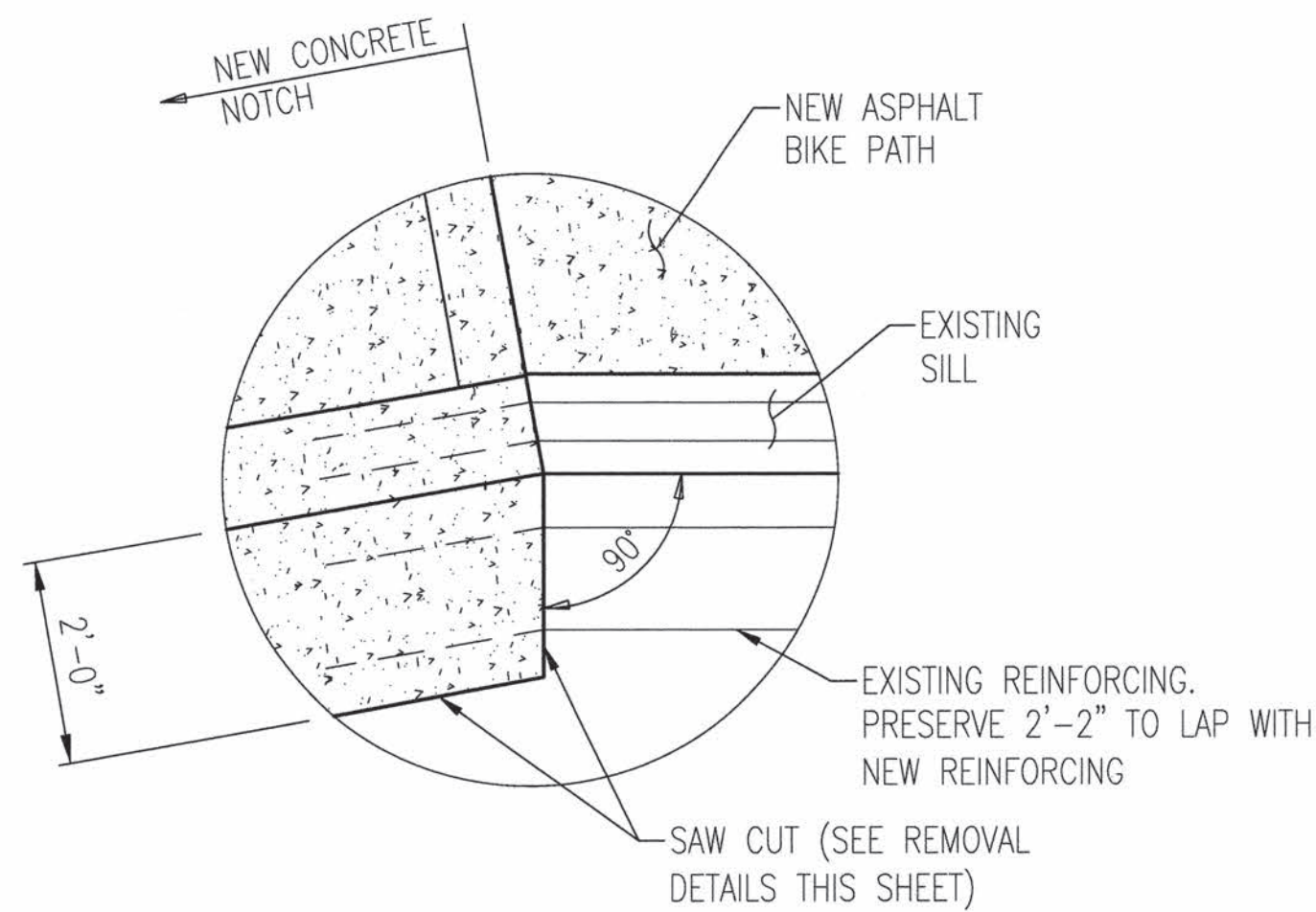
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: **OSUNA ROAD CHANNEL NOTCH SECTION DETAILS**

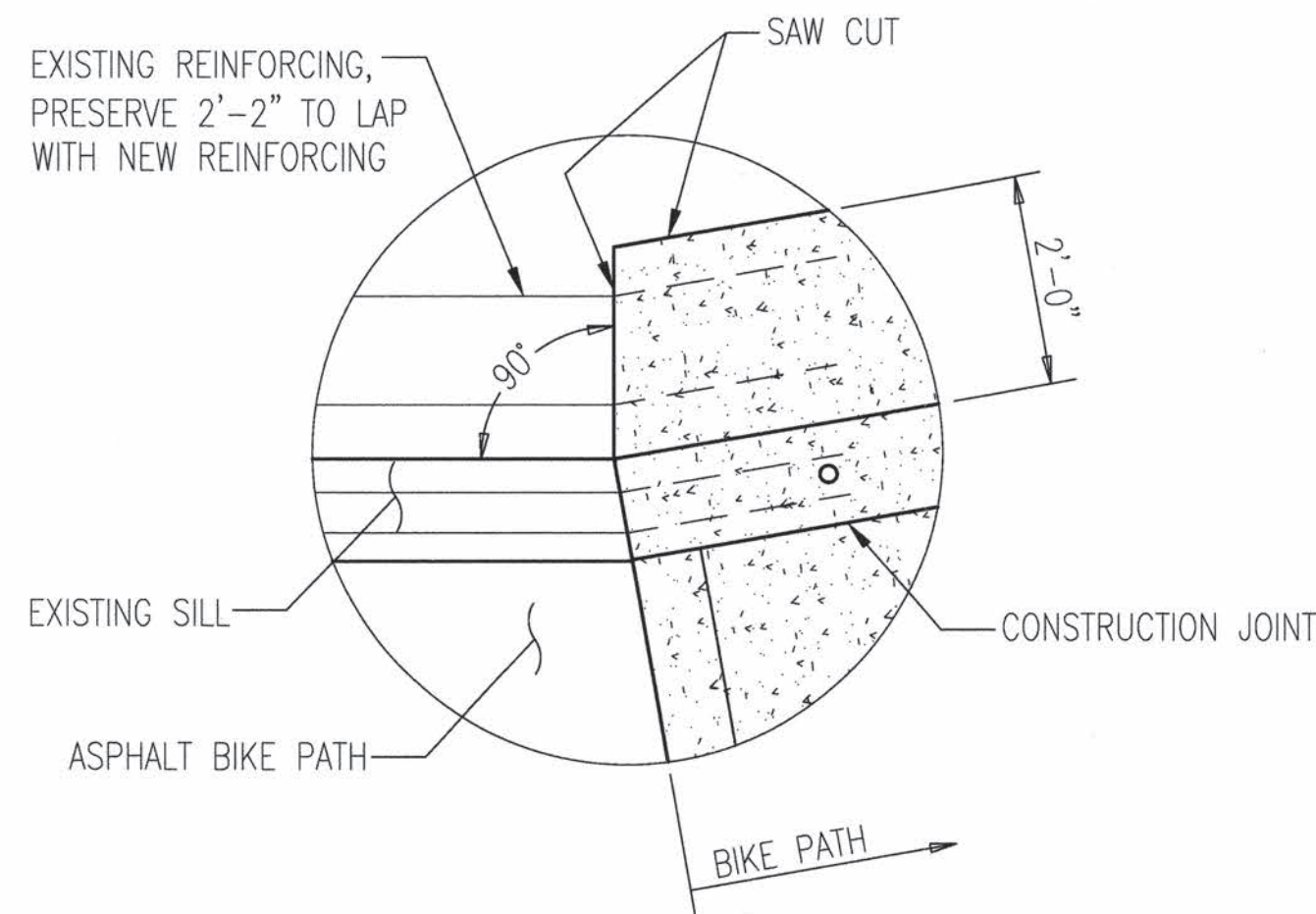
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
 OCT 07 2011 DESIGN REVIEW COMMITTEE	 OCT 07 2011 CITY ENGINEER		

Federal Control No.	City Project No.	Zone Map No.	Sheet	Of
A300950	5575.93	E16, E17	10	25

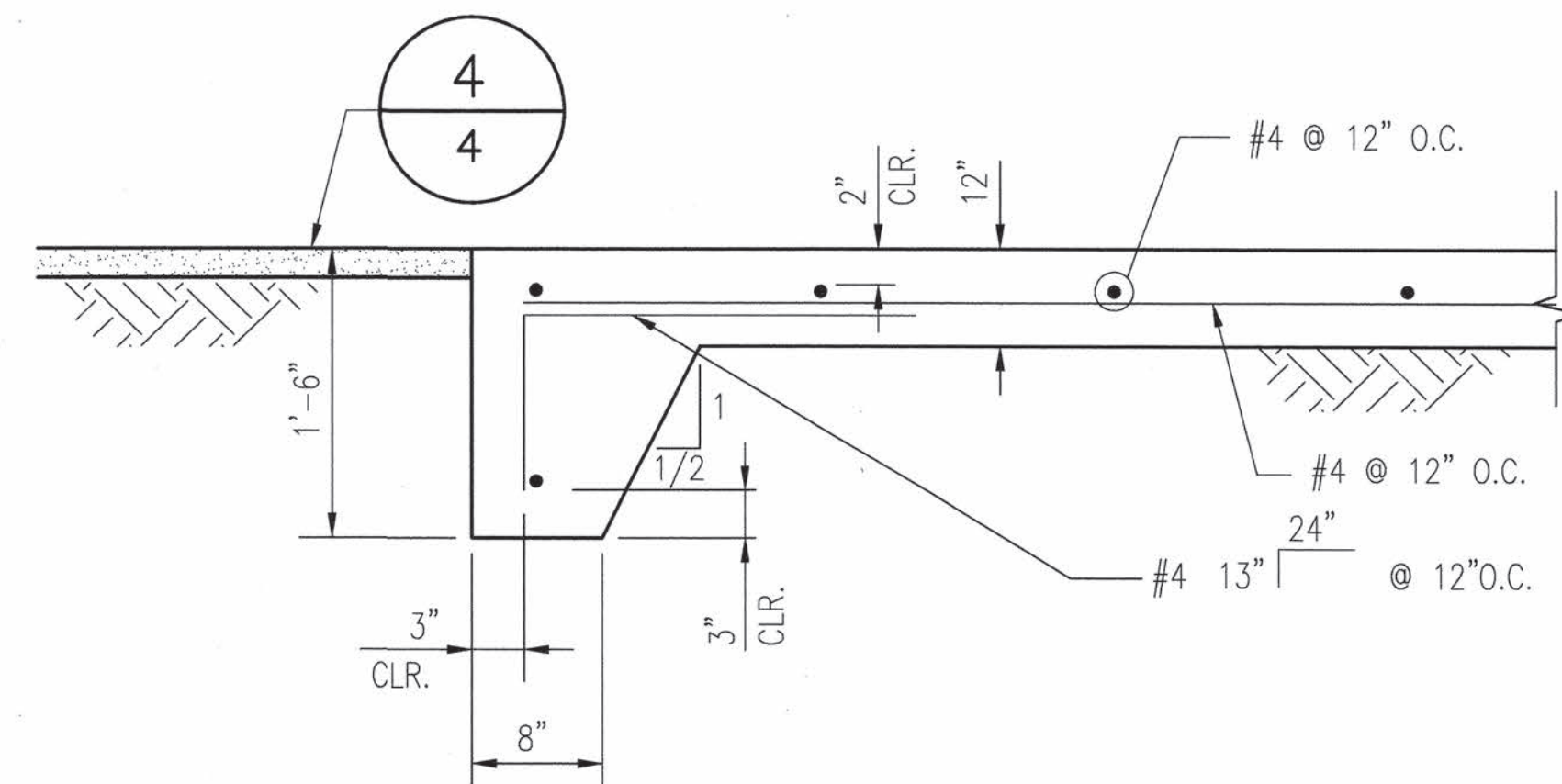
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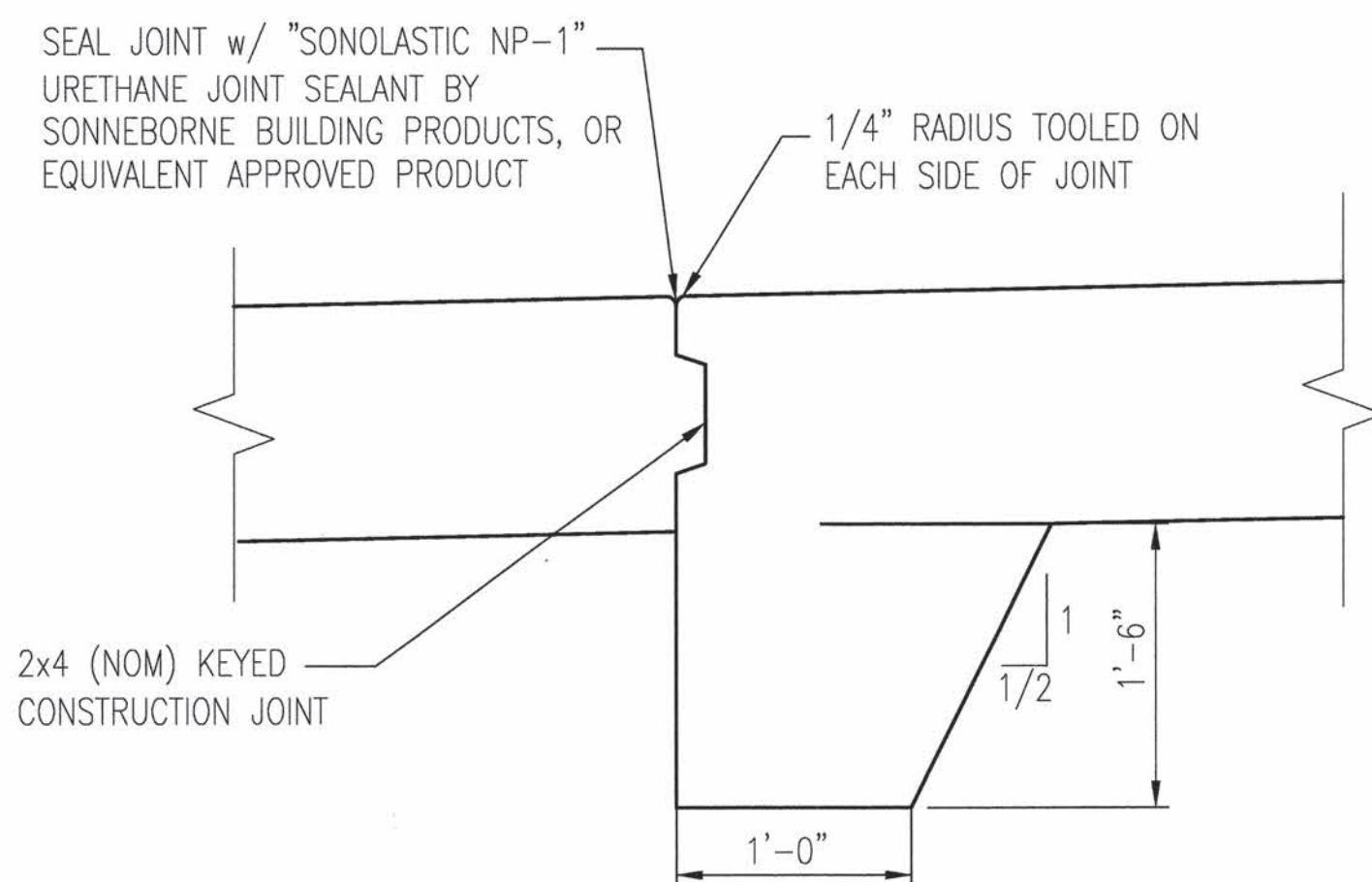
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16,24
JOINT PLAN DETAIL
NO SCALE



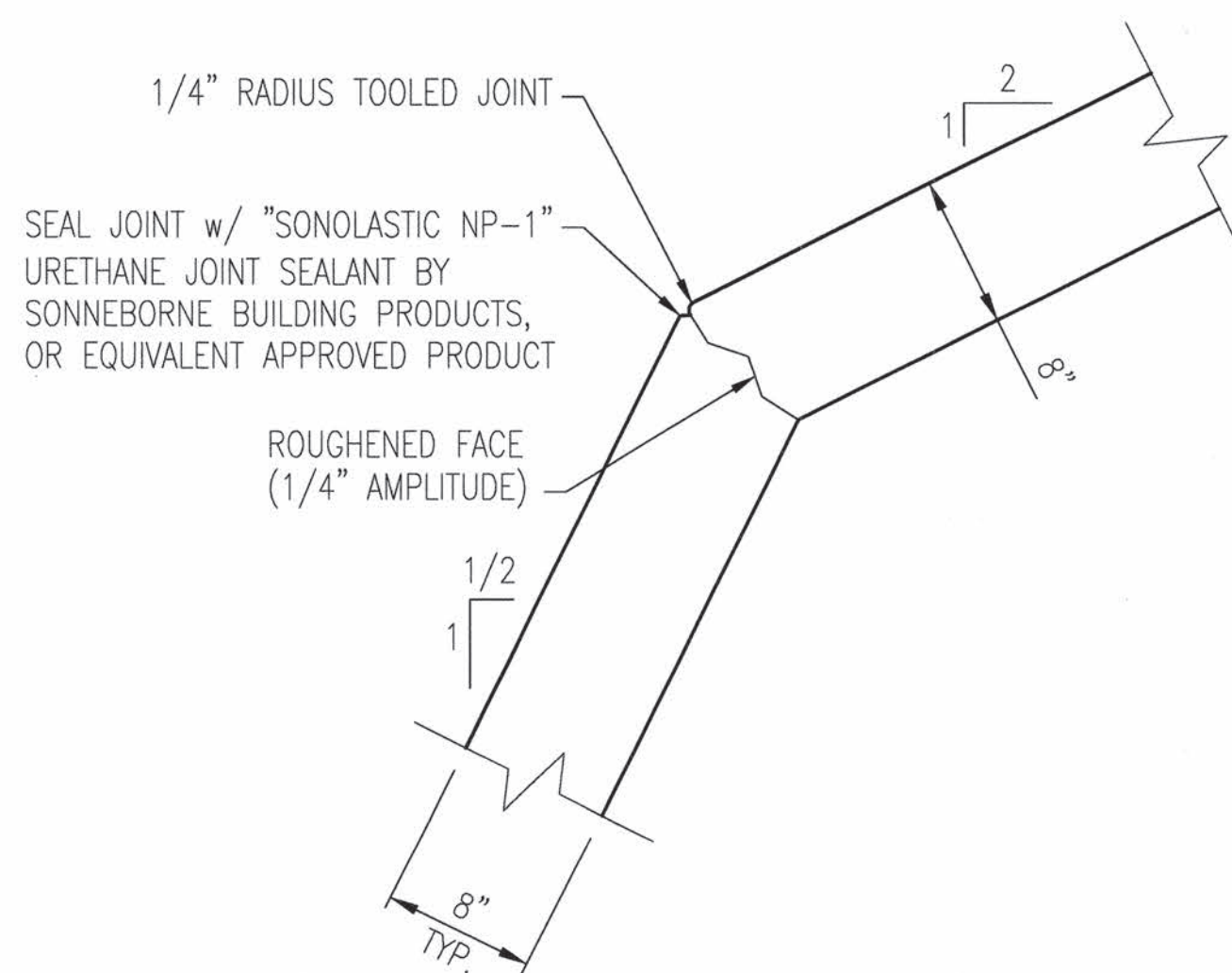
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16,24
JOINT PLAN DETAIL
NO SCALE



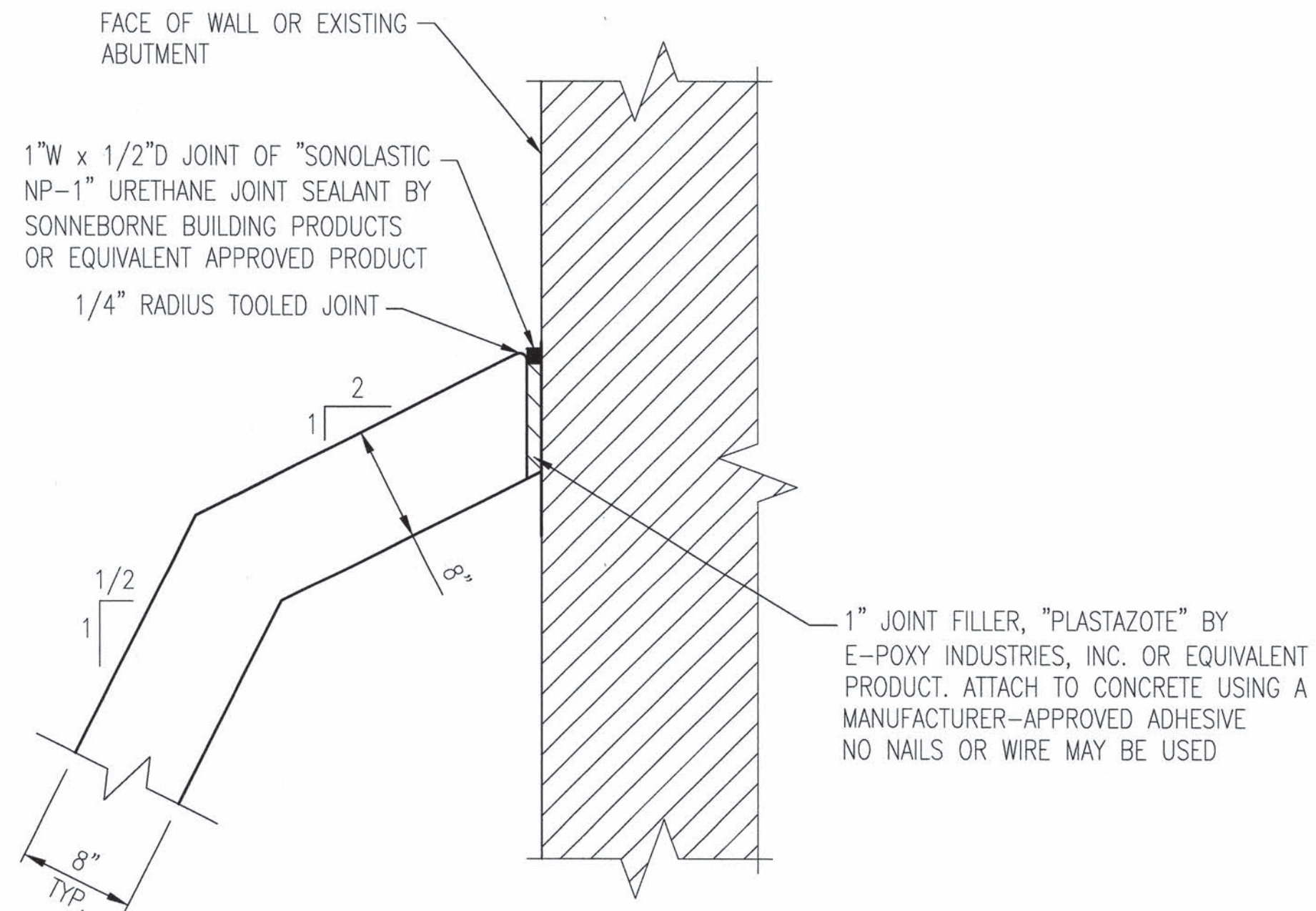
F
16,24
TURN DOWN EDGE SECTION
NO SCALE



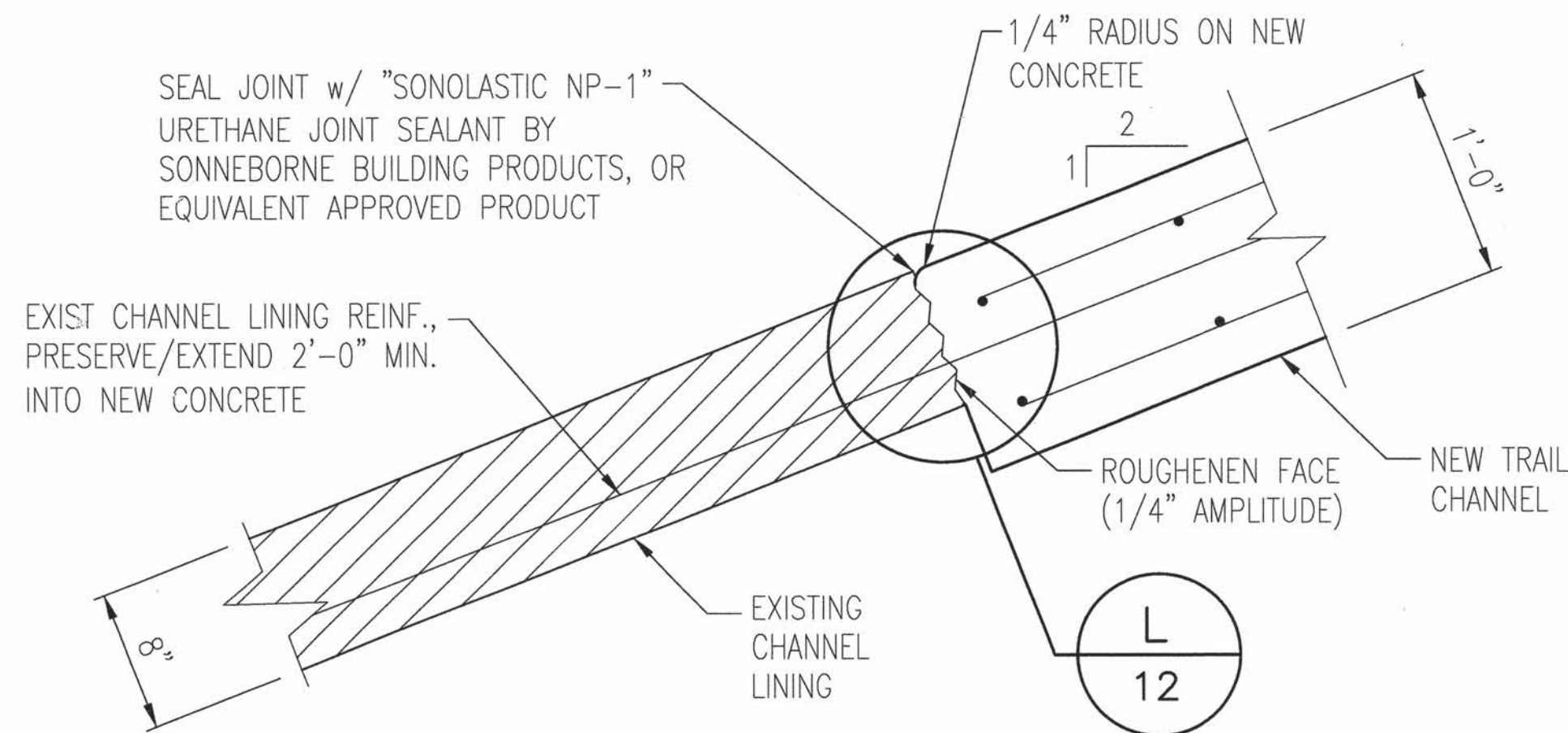
G
10
JOINT DETAIL
NO SCALE



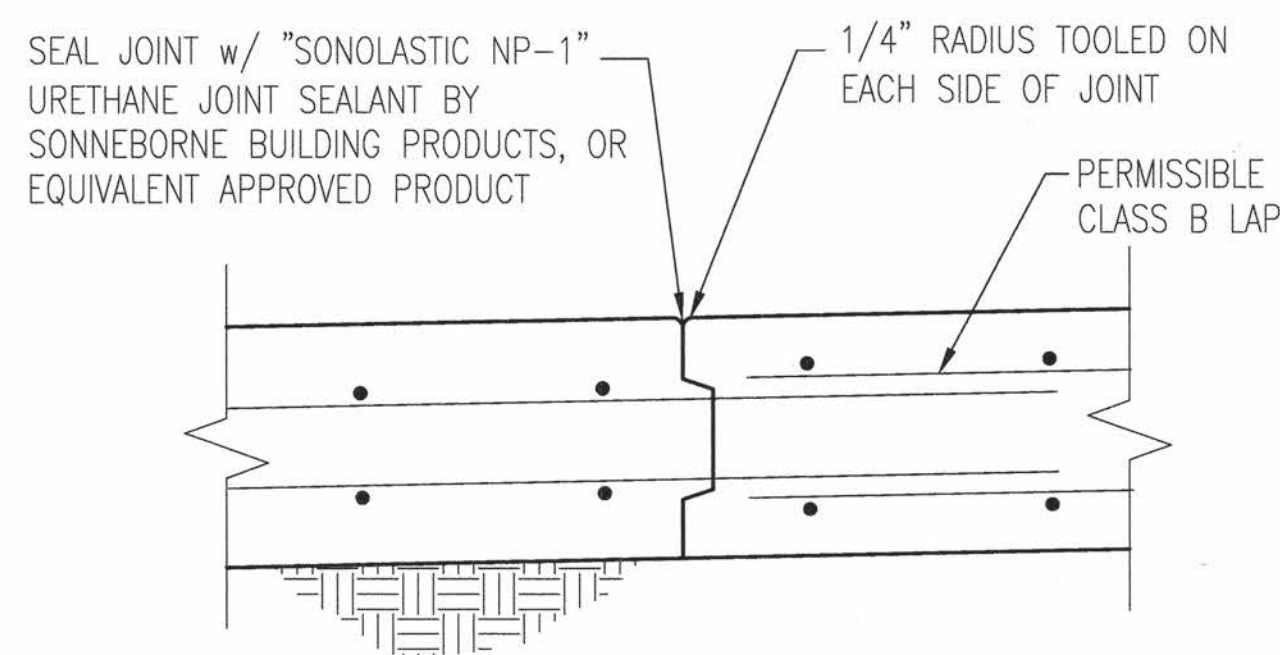
H
10
JOINT DETAIL
NO SCALE



I
10
JOINT DETAIL
NO SCALE (TYPICAL AROUND ABUTMENTS)



J
10
JOINT DETAIL
NO SCALE



K
10
TRANSVERSE CONSTRUCTION JOINT
NO SCALE

ALBUQUERQUE GEOGRAPHIC REFERENCE SYSTEM										BENCH MARKS										AS BUILT INFORMATION																			
15.1616 (1 3/4" ALUMINUM DISK)																				CONTRACTOR										DATE									
NM STATE PLANE COORDINATES																				INSPECTOR'S										DATE									
CENTRAL ZONE NAD 1983																				ACCEPTANCE BY										DATE									
ELEVATION= 5092.856 (NAVD 1988)																				DRAWINGS										DATE									
SW QUADRANT OF OSUNA RD. NE. &																				VERIFICATION BY										DATE									
THE NORTH DIVISION CHANNEL EPOXYED																				CORRECTED BY										DATE									
TO TOP OF CONCRETE BASE OF STREET																				RECORDED BY										DATE									
TO TOP OF CONCRETE BASE OF STREET																				NO.										MICRO-FILM INFORMATION									
LIGHT STATION																																							

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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

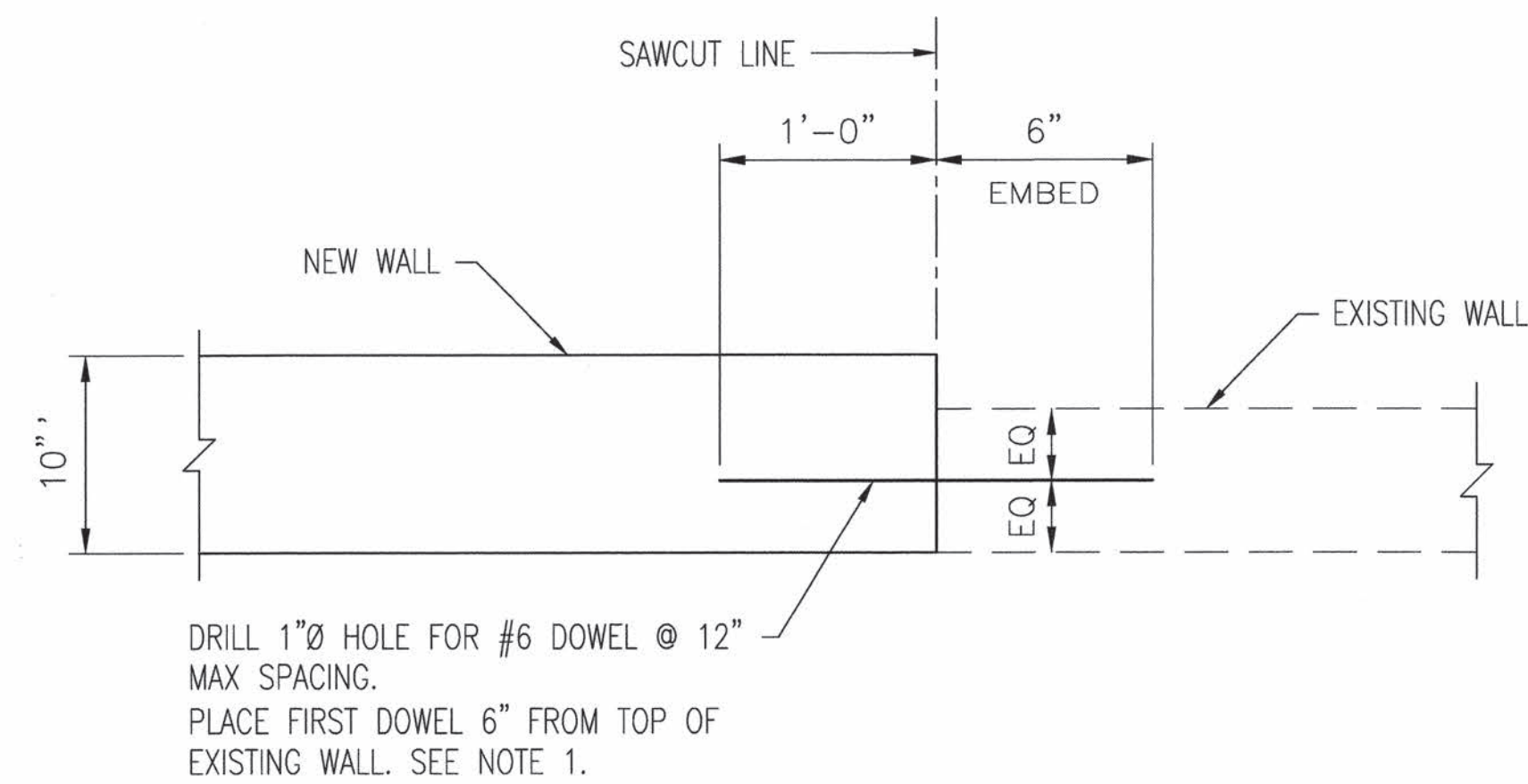
TITLE: OSUNA ROAD CHANNEL NOTCH SECTION DETAILS

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

Federal Control No. A300950 City Project No. 5575.93 Zone Map No. E16, E17 Sheet 11 of 25

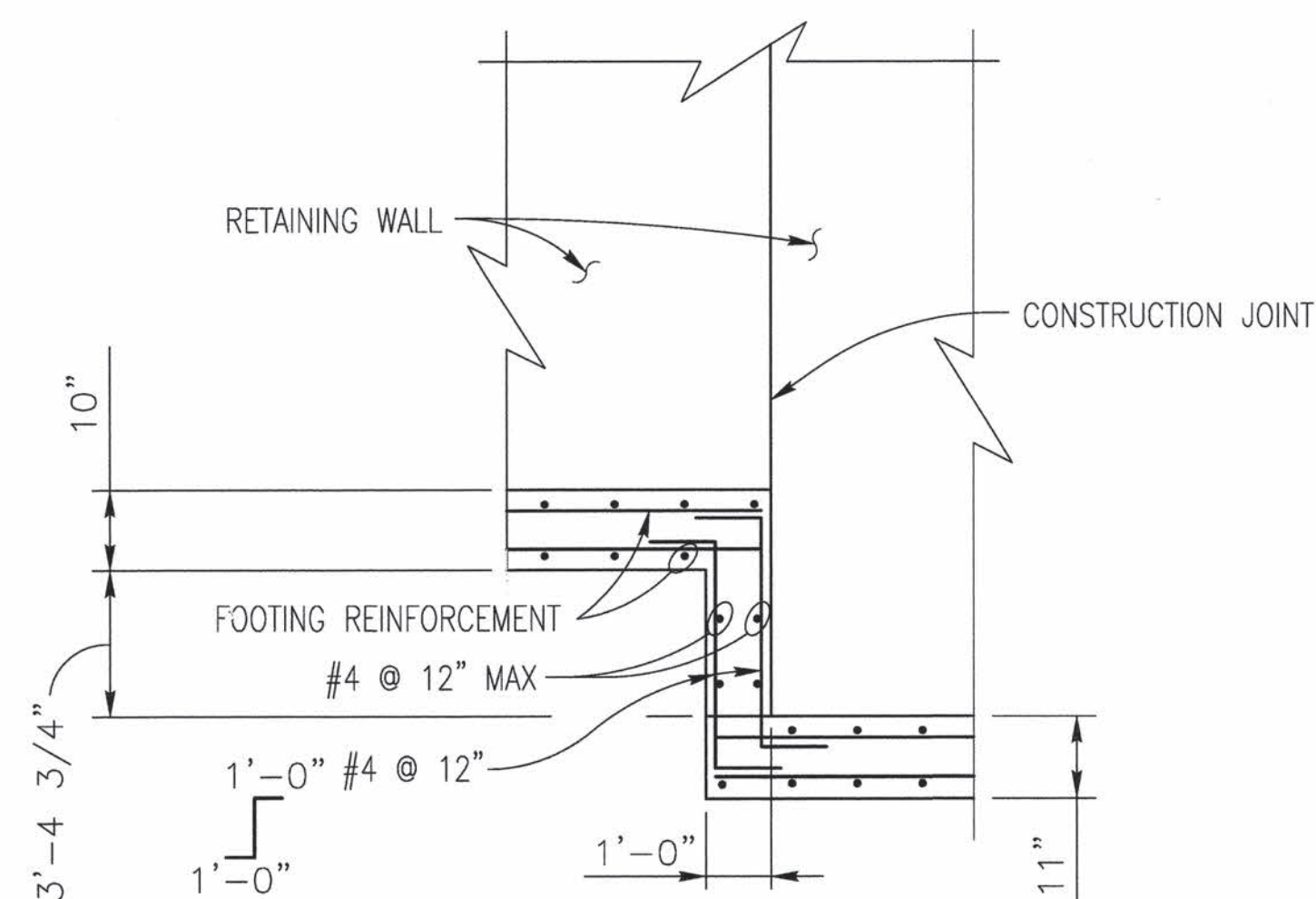
RECORD DRAWING

1. EPOXY DOWEL/ROD IN HOLE WITH AN APPROVED EPOXY ADHESIVE. EPOXY SYSTEM SHALL DEVELOP A TENSILE PULLOUT STRENGTH OF 26 KIPS FOR #6 DOWEL AND 7 KIPS FOR 1/2"Ø RODS. DETAILS OF THE ANCHORAGE SYSTEM SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

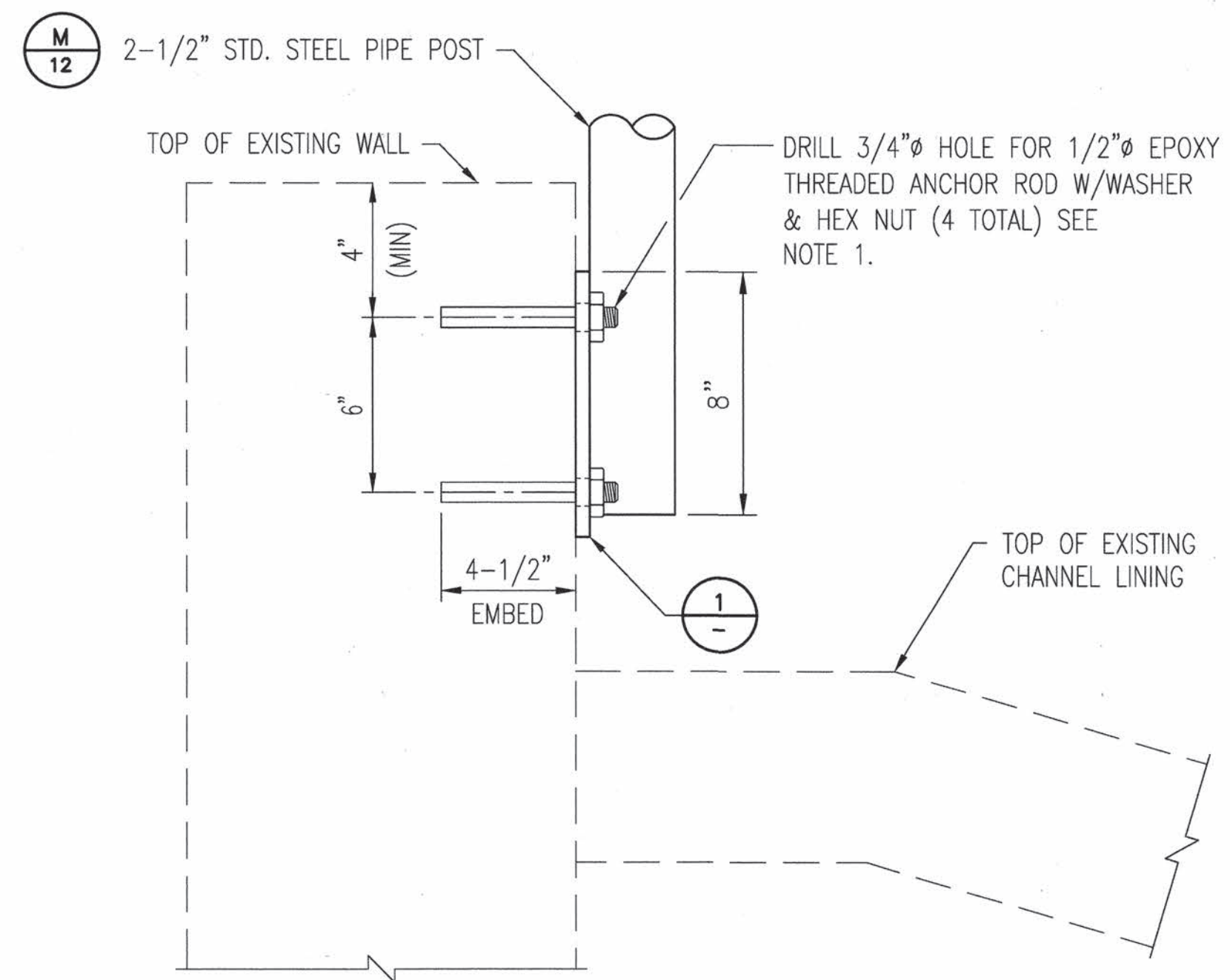


R
17

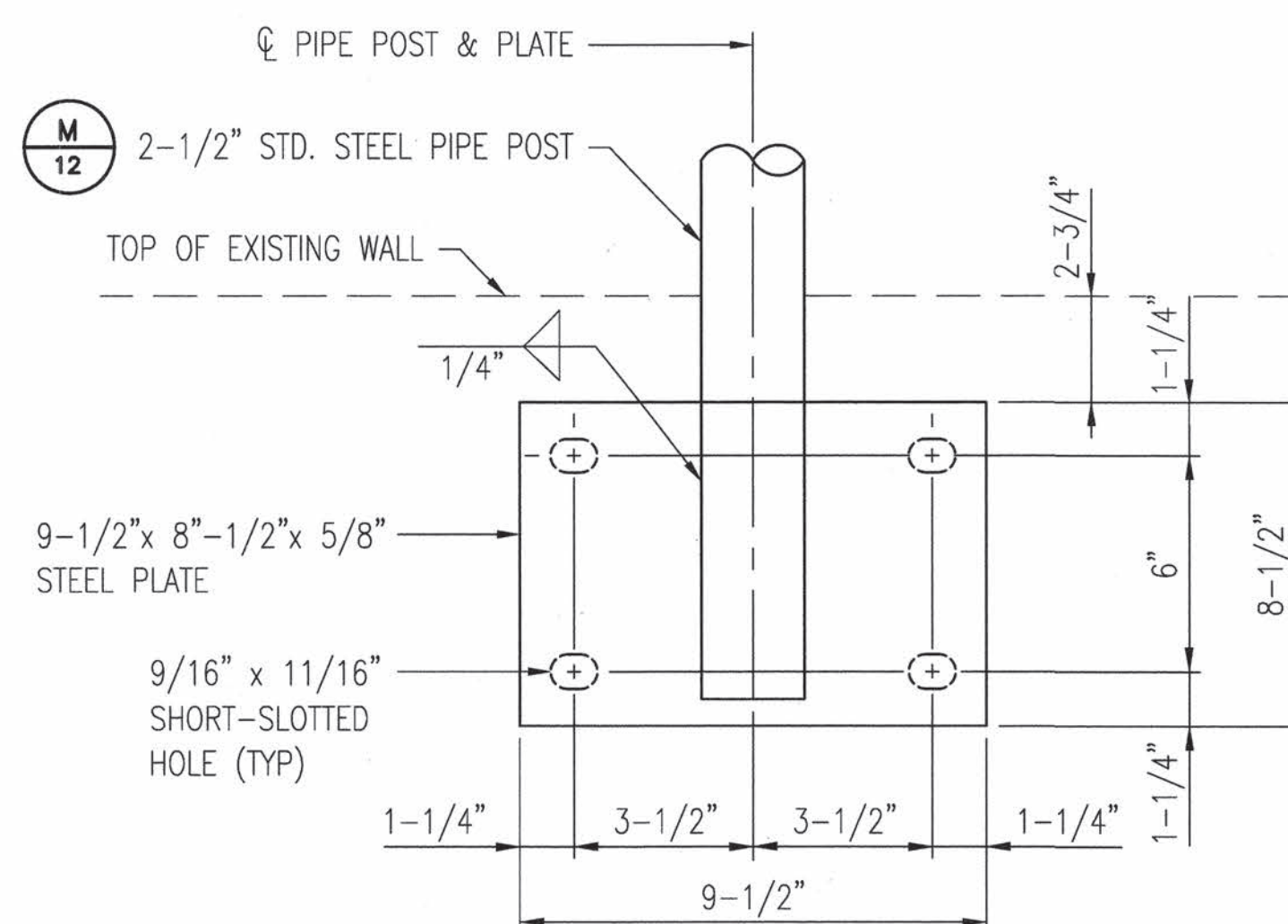
NEW TO EXISTING WALL CONNECTION DETAIL
NO SCALE



WALL FOOTING STEP DETAIL



S RAILING SUPPORT ON EXISTING WALL



1 ELEVATION VIEW
— NO SCALE

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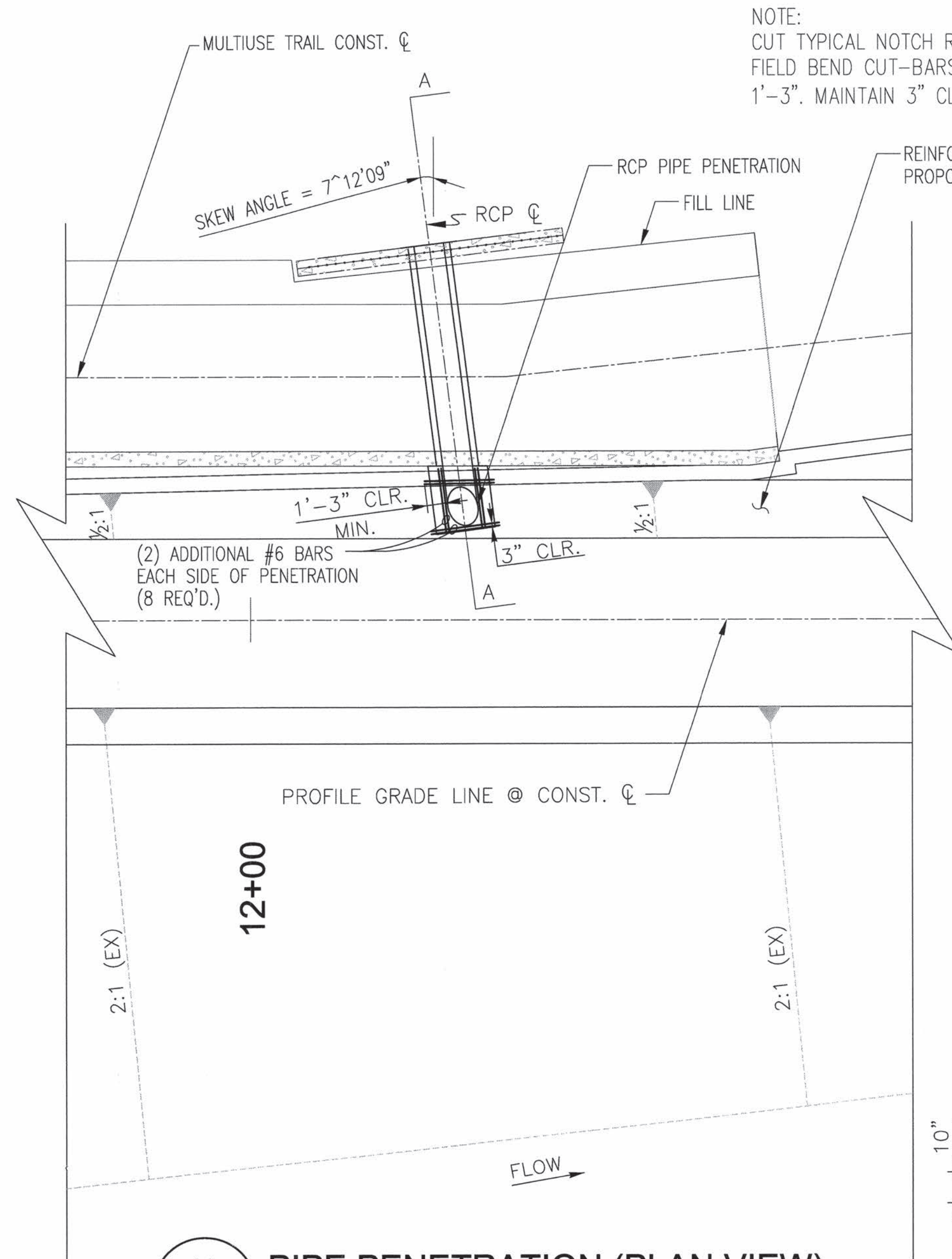

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: **OSUNA ROAD CHANNEL NOTCH
MISCELLANEOUS DETAILS**

Design Review Committee		City Engineer Approval				Mo./Day/Yr.		Mo./Day/Yr.	
				Lost Design Update					
Federal Control No. A300950		City Project No. 5575.93		Zone Map No. E16, E17		Sheet 13		Of 25	

RECORD DRAWING

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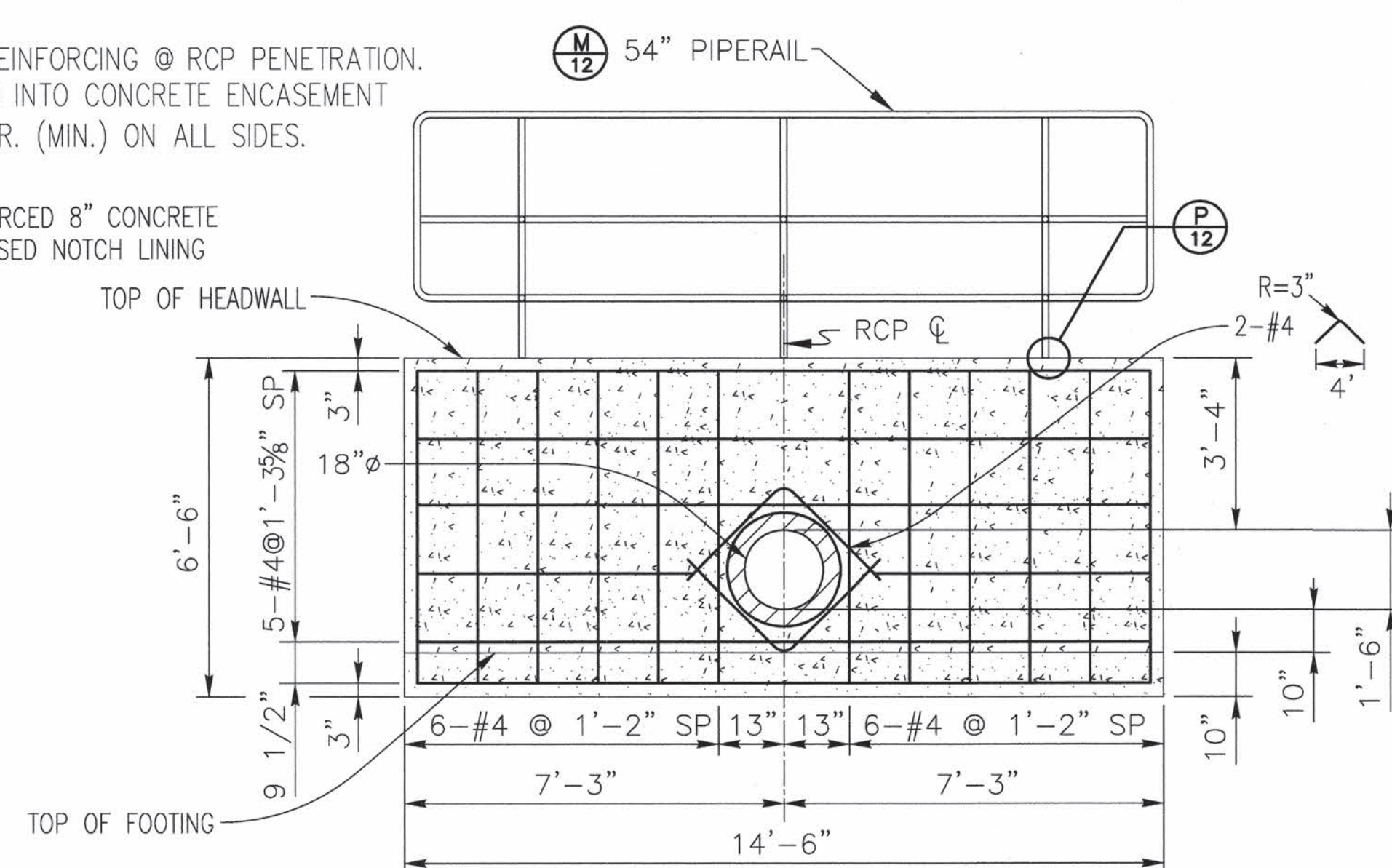


U
8,17

PIPE PENETRATION (PLAN VIEW)

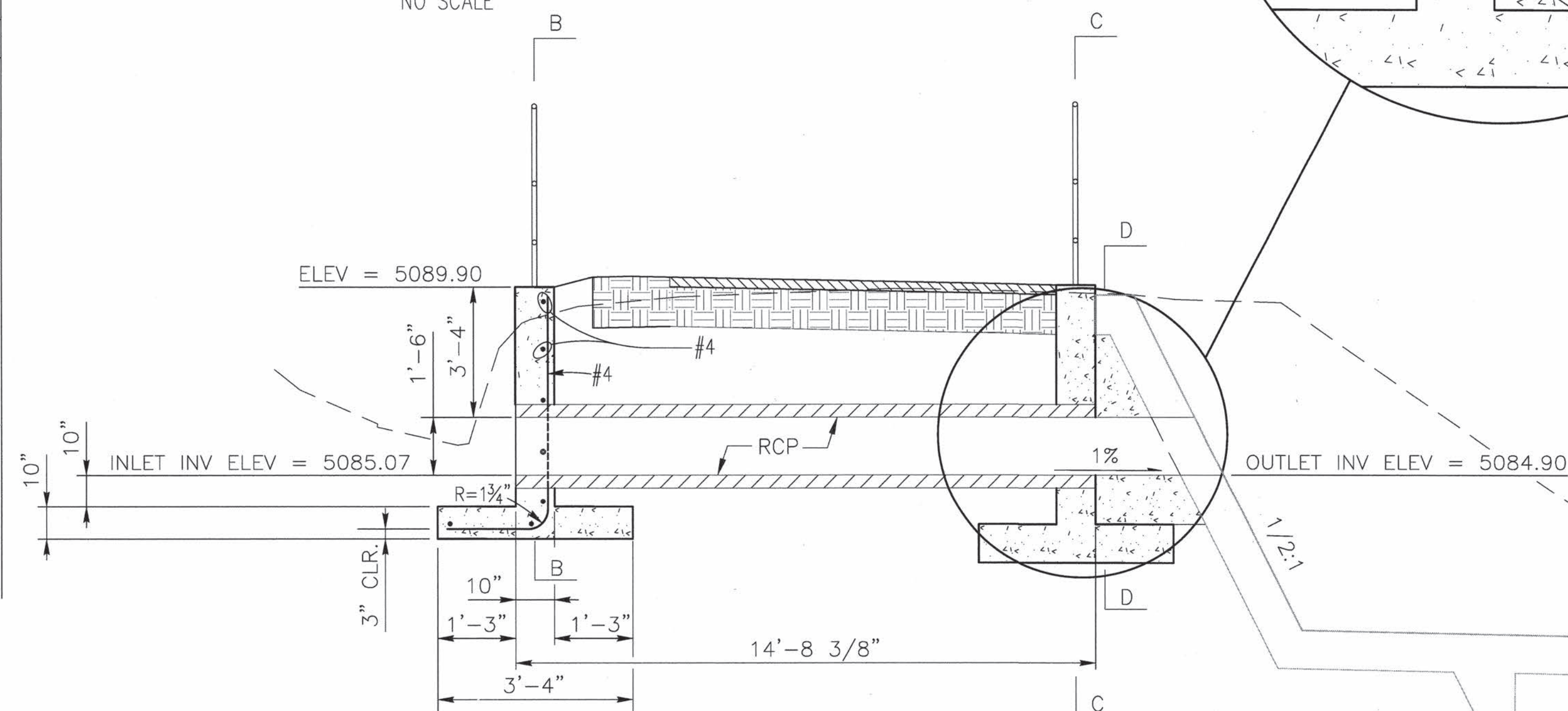
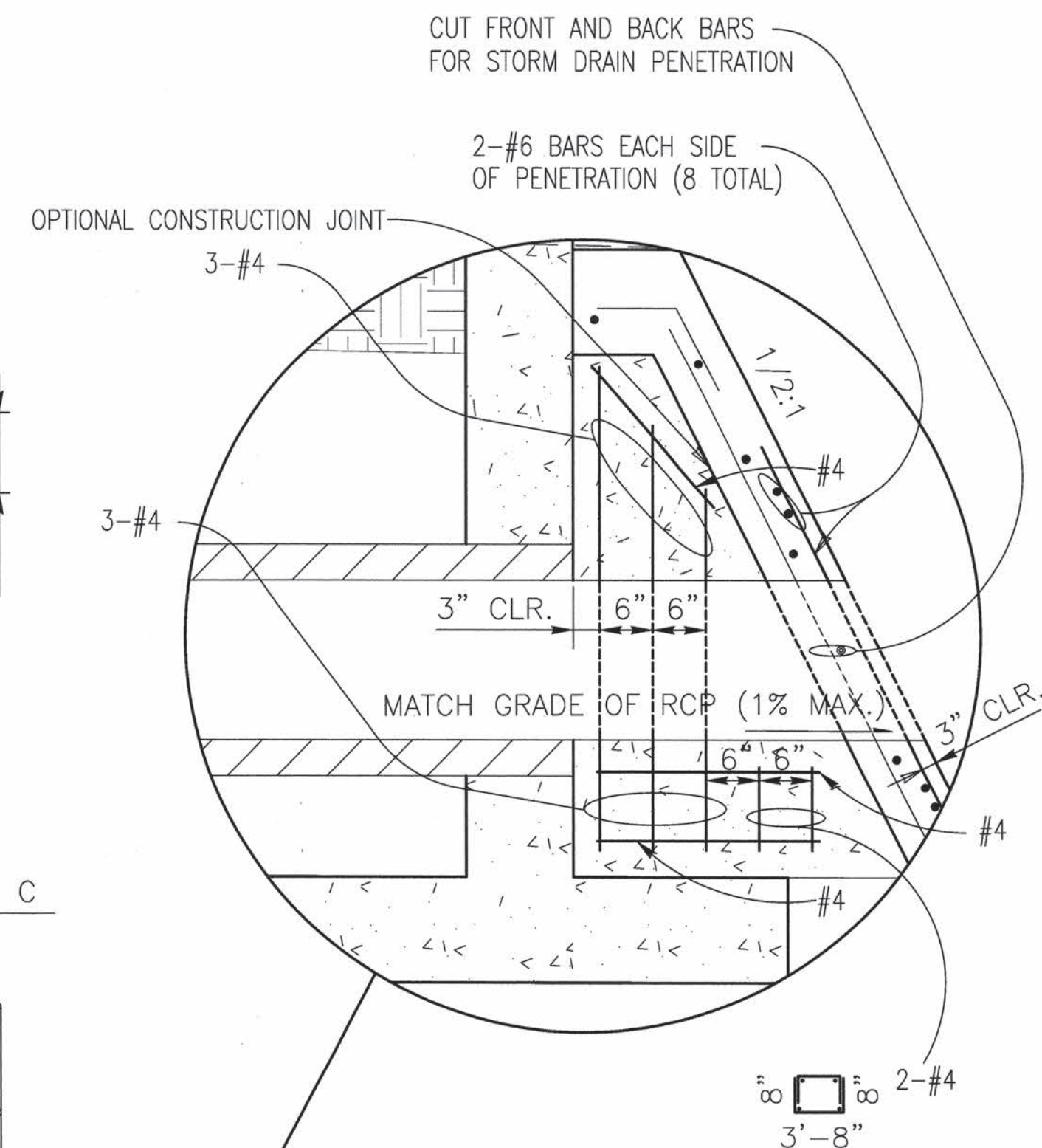
NO SCALE

NOTE:
CUT TYPICAL NOTCH REINFORCING @ RCP PENETRATION.
FIELD BEND CUT-BARS INTO CONCRETE ENCASEMENT
1'-3". MAINTAIN 3" CLR. (MIN.) ON ALL SIDES.



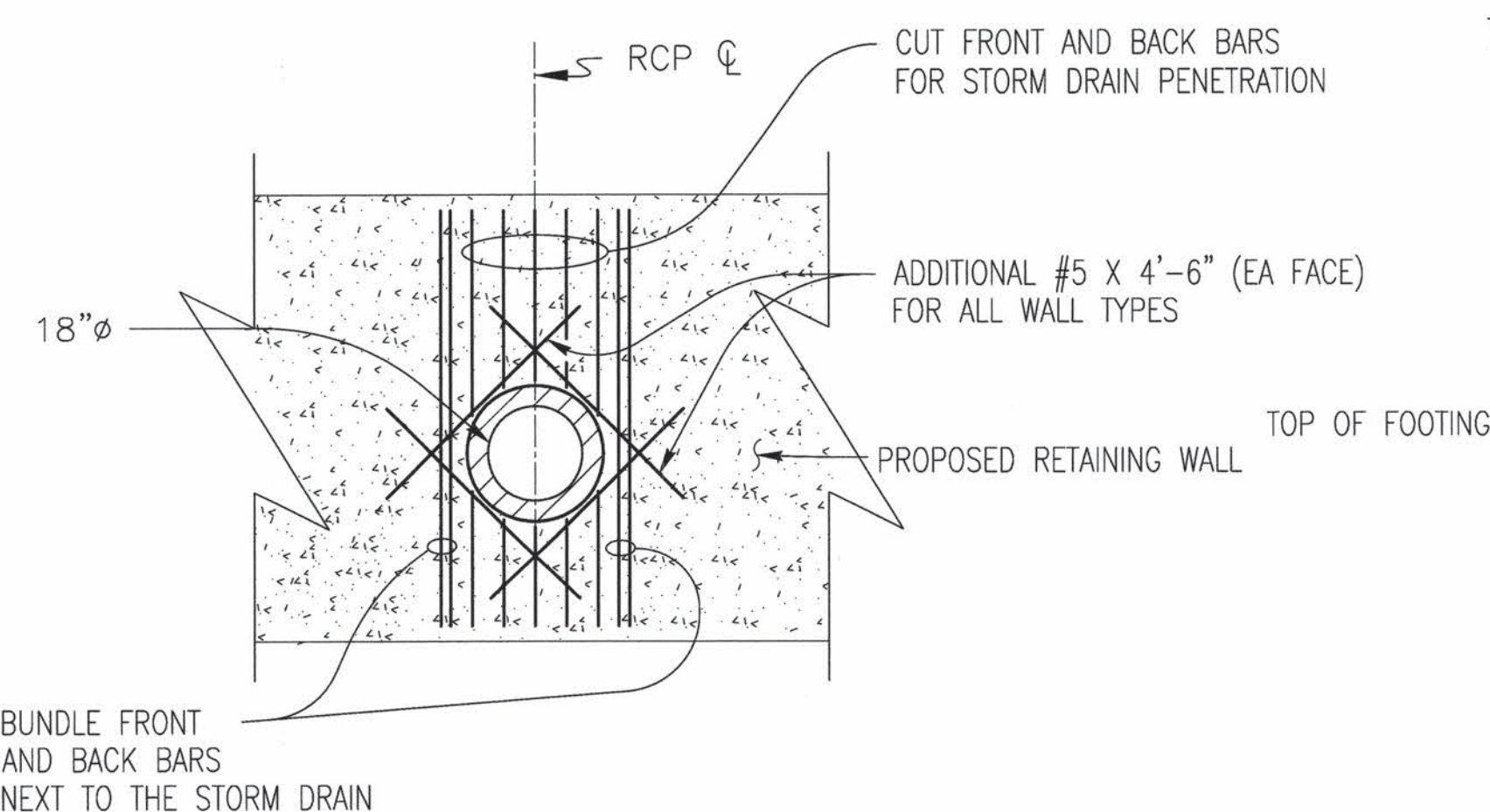
SECTION B-B (HEADWALL)

NO SCALE



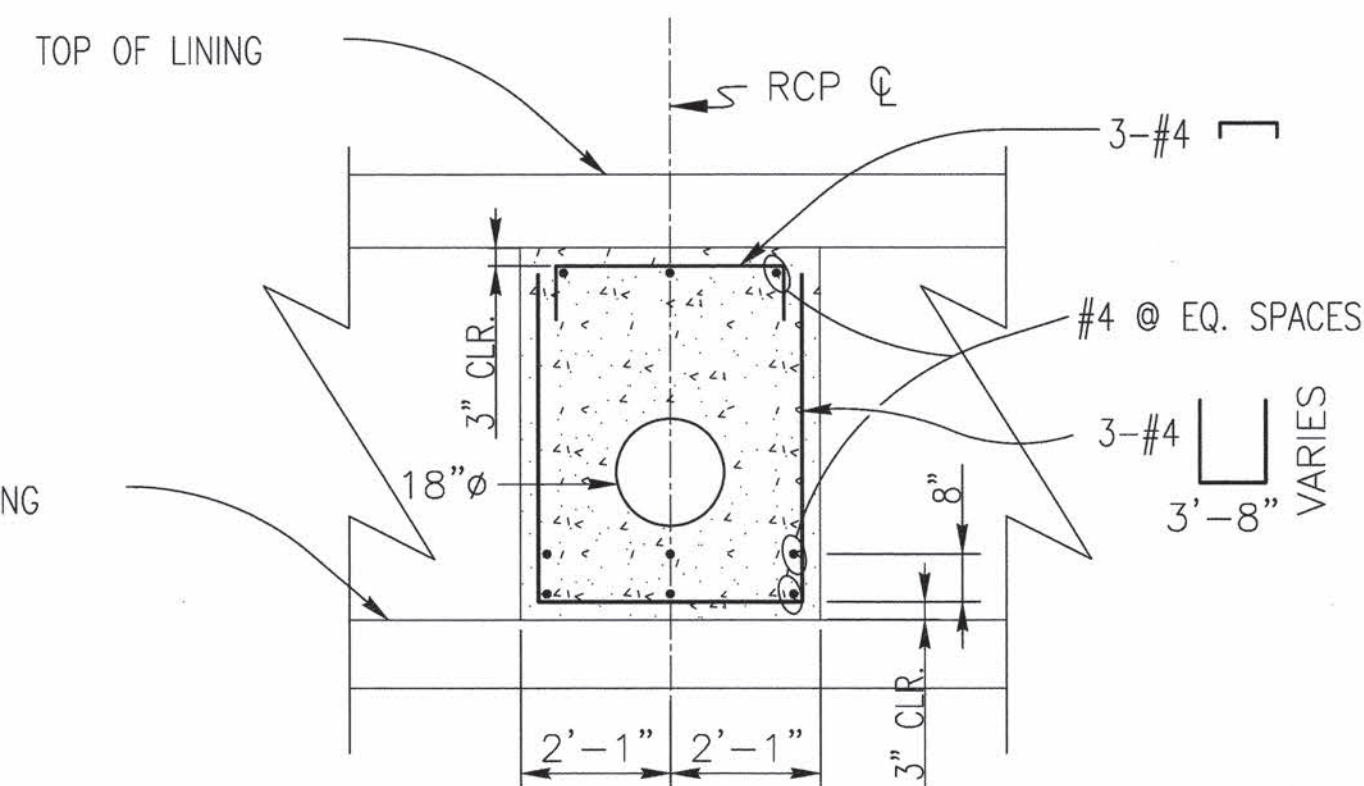
SECTION A-A

NO SCALE



SECTION C-C

NO SCALE



SECTION D-D

NO SCALE

NOTES:

1. THE PIPE PENETRATION DETAILED HEREIN SHALL BE PAID FOR UNDER LUMP SUM AND SHALL BE COMPENSATION FOR THE PENETRATION COMPLETE AND IN PLACE. INCLUDED IN THIS WORK (BUT NOT LIMITED TO) IS GRADING, SUBGRADE PREPARATION, REINFORCED CONCRETE, CONSTRUCTION JOINTS, CONCRETE PLACEMENT AND FINISHING. NOTE THE MEASUREMENT FOR 8" CHANNEL LINING IS CONTINUOUS AND UNINTERRUPTED AT THE PENETRATION LOCATION.
2. ALL CULVERT PIPE PLACED UNDER THE CHANNEL LINING OR WITHIN AMAFCA RIGHT-OF-WAY SHALL BE RCP CLASS III MIN.



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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: **OSUNA ROAD CHANNEL NOTCH
MISCELLANEOUS DETAILS**

Design Review Committee

APPROVED
OCT 07 2011
DESIGN
REVIEW COMMITTEE

City Engineer Approval

APPROVED
OCT 07 2011
CITY ENGINEER

Last Design Update

Federal Control No.
A300950

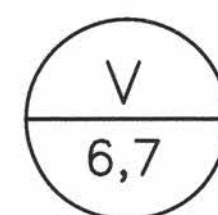
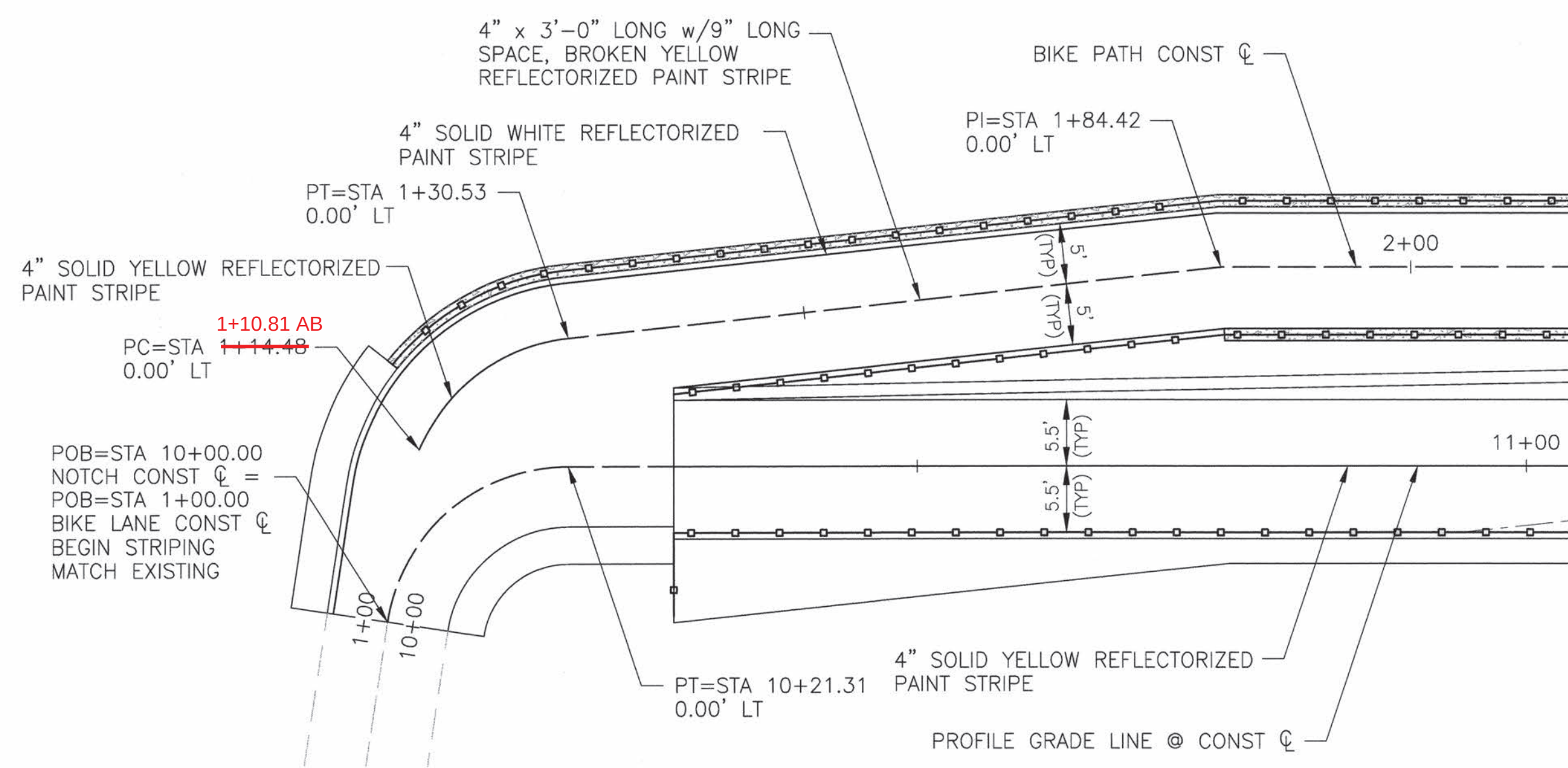
City Project No.
5575.93

Zone Map No.	E16, E17
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Sheet 14 Of 25

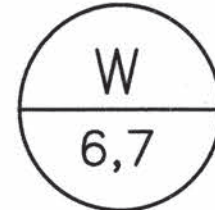
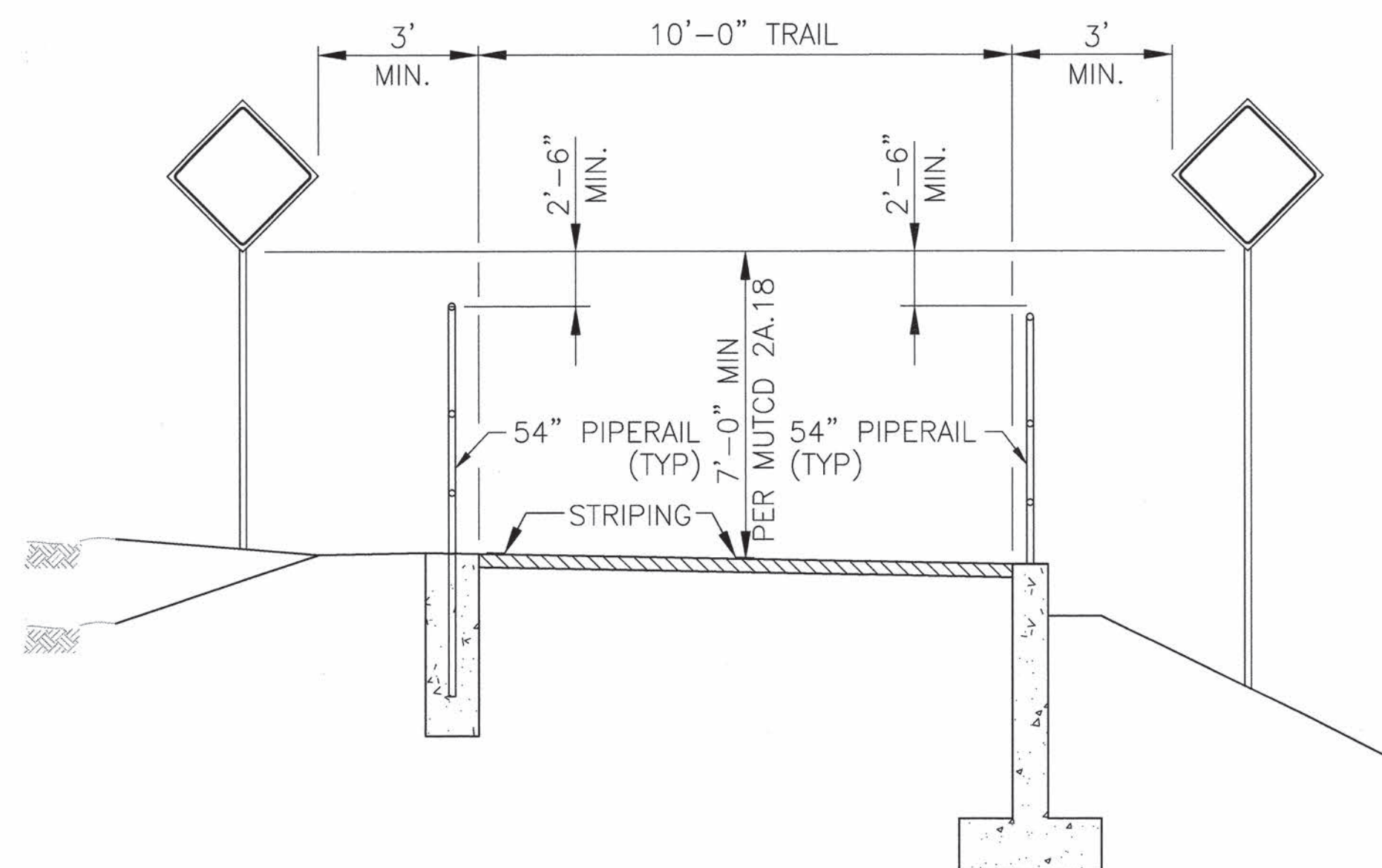
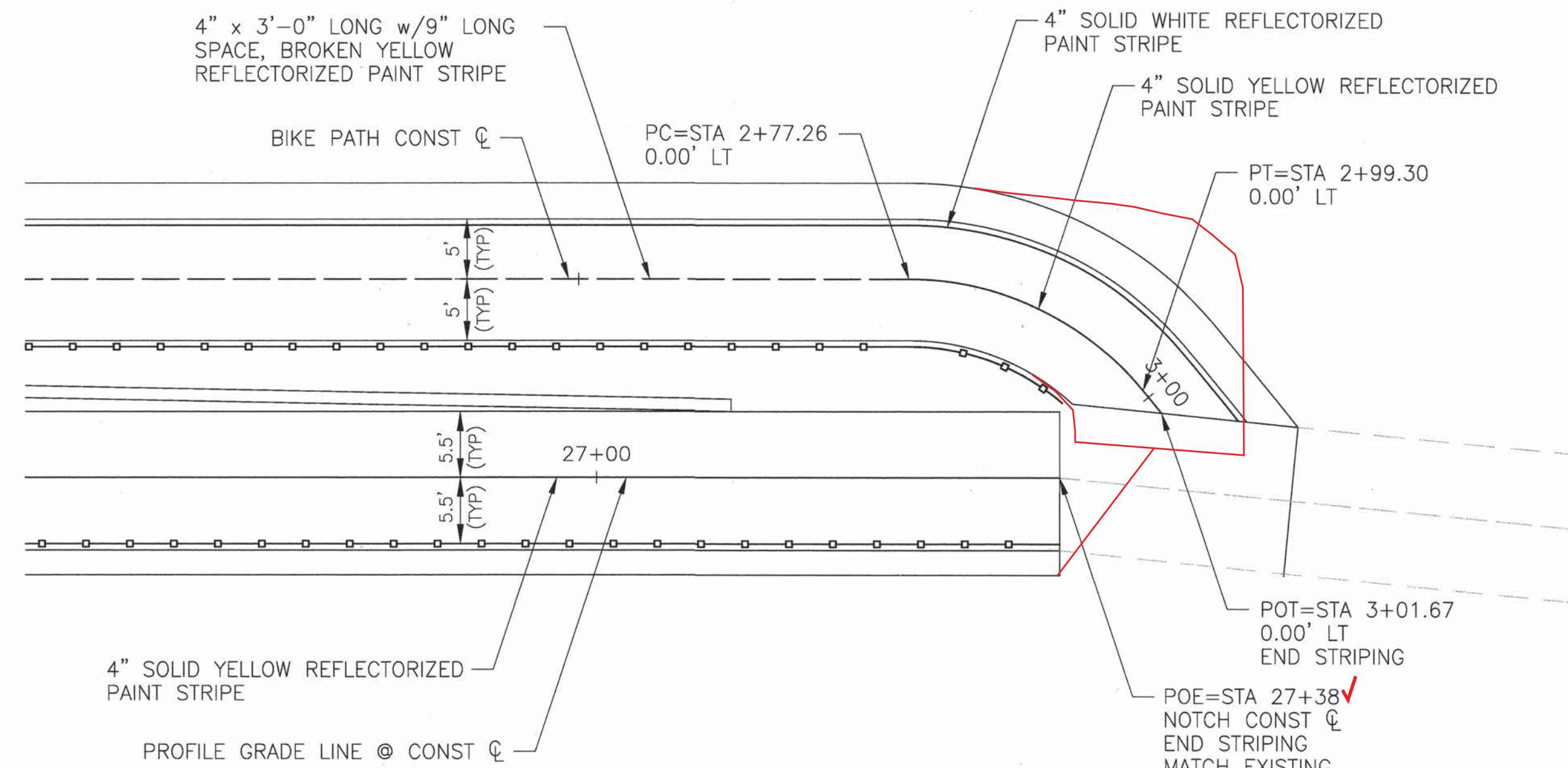
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STRIPING DETAILS @ NOTCH ENTRANCE / EXIT

NO SCALE

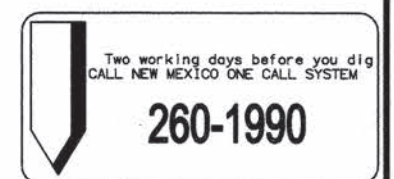


TYPICAL SIGN PLACEMENT

NO SCALE

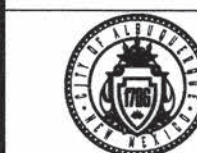
SIGNING AND PAVEMENT MARKING NOTES:

- ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS, AND THESE PLANS.
- ALL SIGNS SHALL BE MADE OF TYPE IV PRISMATIC SHEETING WITH SHEETING TYPE ASTM D4956-04 AS PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION.



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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: **OSUNA ROAD CHANNEL NOTCH**
MISCELLANEOUS DETAILS



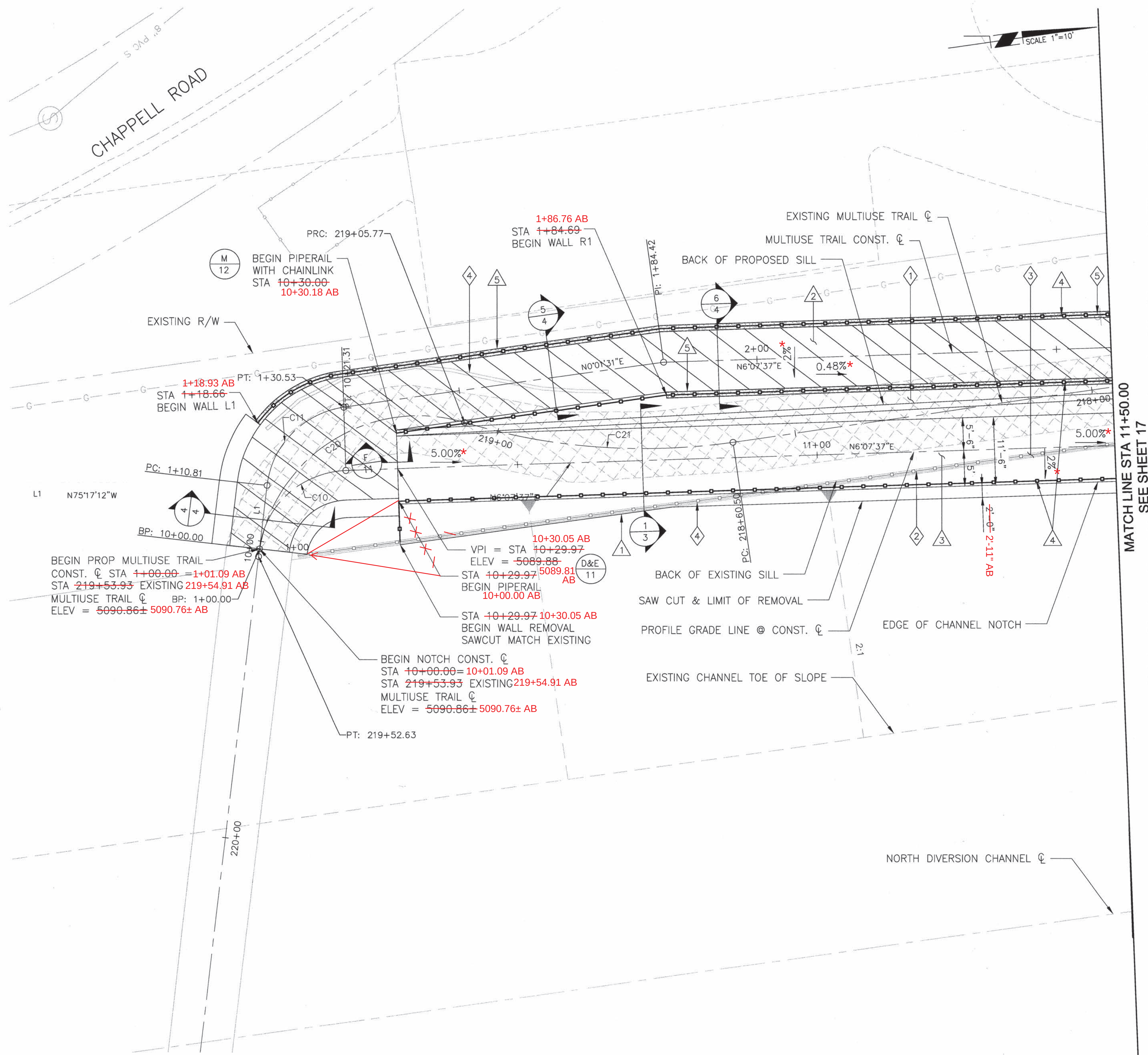
Mo./Day/Yr.	Mo./Day/Yr.

Federal Control No. A300950 City Project No. 5575.93 Zone Map No. E16, E17 Sheet 15 of 25

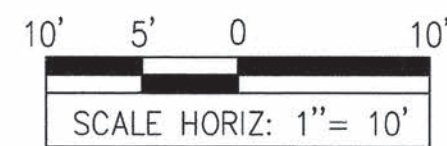
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	ALBUQUERQUE GEOGRAPHIC REFERENCE SYSTEM	DATE	FIELD NOTES	DATE		
WORK	DATE	15-E16 (1 3/4" ALUMINUM DISK)	DATE	BY	DATE		
DESIGNED BY	DATE	NM STATE PLANE COORDINATES	DATE	NO.	DATE	REVISIONS	
ACCEPTANCE BY	DATE	CENTRAL ZONE NAD 1983	DATE	1	PRECISION SURVEYS		
FIELD	DATE	ELEVATION= 5092.856 (NAVD 1988)	DATE			NO.	DATE
DRAWINGS	DATE	SW QUADRANT OF OSUNA RD. NE. &	DATE			DATE	DATE
CORRECTED BY	DATE	THE NORTH DIVISION CHANNEL EXPOSED	DATE			DESIGNED BY: JHALL	DATE: 07/29/2011
MICRO-FILM INFORMATION	DATE	TO TOP OF CONCRETE BASE OF STREET	DATE			DRAWN BY: DRAY	DATE: 07/29/2011
	DATE	LIGHT STANCHION	DATE			CHECKED BY: JBARR	DATE: 07/29/2011

RECORD DRAWING

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PLAN VIEW - OSUNA ROAD CHANNEL NOTCH



REMOVAL/RELOCATE		AS BUILT INFORMATION	
1	SAWCUT AND REMOVE ASPHALT PVMT BIKE PATH	198 SY	DATE
2	REMOVE EXISTING SAFETY HANDRAIL	121 LF	DATE
3	REMOVE CONCRETE CHANNEL LINING	9 CY	DATE
4	REMOVE EXISTING RETAINING WALL	784 SF	DATE
5	REMOVE AND REPLACE EXISTING SIGN	1 EA	DATE

CONSTRUCTION NOTES		BENCH MARKS	
1	SAWCUT AND MATCH EXISTING	ALBUQUERQUE GEODATUM REFERENCE SYSTEM	CONTRACTOR
2	CONSTRUCT NEW MULTIUSE TRAIL PAVEMENT PER TYPICAL SECTIONS 3" ASPHALT, TYPE C SUBGRADE PREPARATION	210 SY 274 SY	DATE
3	CONSTRUCT CHANNEL NOTCH PER TYPICAL SECTION STRUCTURAL CONCRETE (3,500 PSI) STEEL REINFORCEMENT	78 CY 7,435 LBS	DATE
4	FURNISH & INSTALL PIPERAIL FURNISH & INSTALL PIPERAIL W/ CHAINLINK PER DETAIL ON SHEET 12	265 LF 121 LF	DATE
5	CONSTRUCT RETAINING WALL	1,391 SF	DATE

* FOR LONGITUDINAL AND CROSS SLOPES, REFER TO THE ATTACHED SURVEY SHEETS.

LEGEND:

3" ASPHALT, TYPE C

CURVE TABLE	
CURVE	RADIUS
C10	15.00
C11	15.00
C20	26.85
C21	103.75

REVISIONS	
NO.	DATE
1	07/29/2011
2	07/29/2011
3	07/29/2011

DESIGNED BY: J.HALL
DRAWN BY: D.RAY
CHECKED BY: J.BARR

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Albuquerque, NM 87102

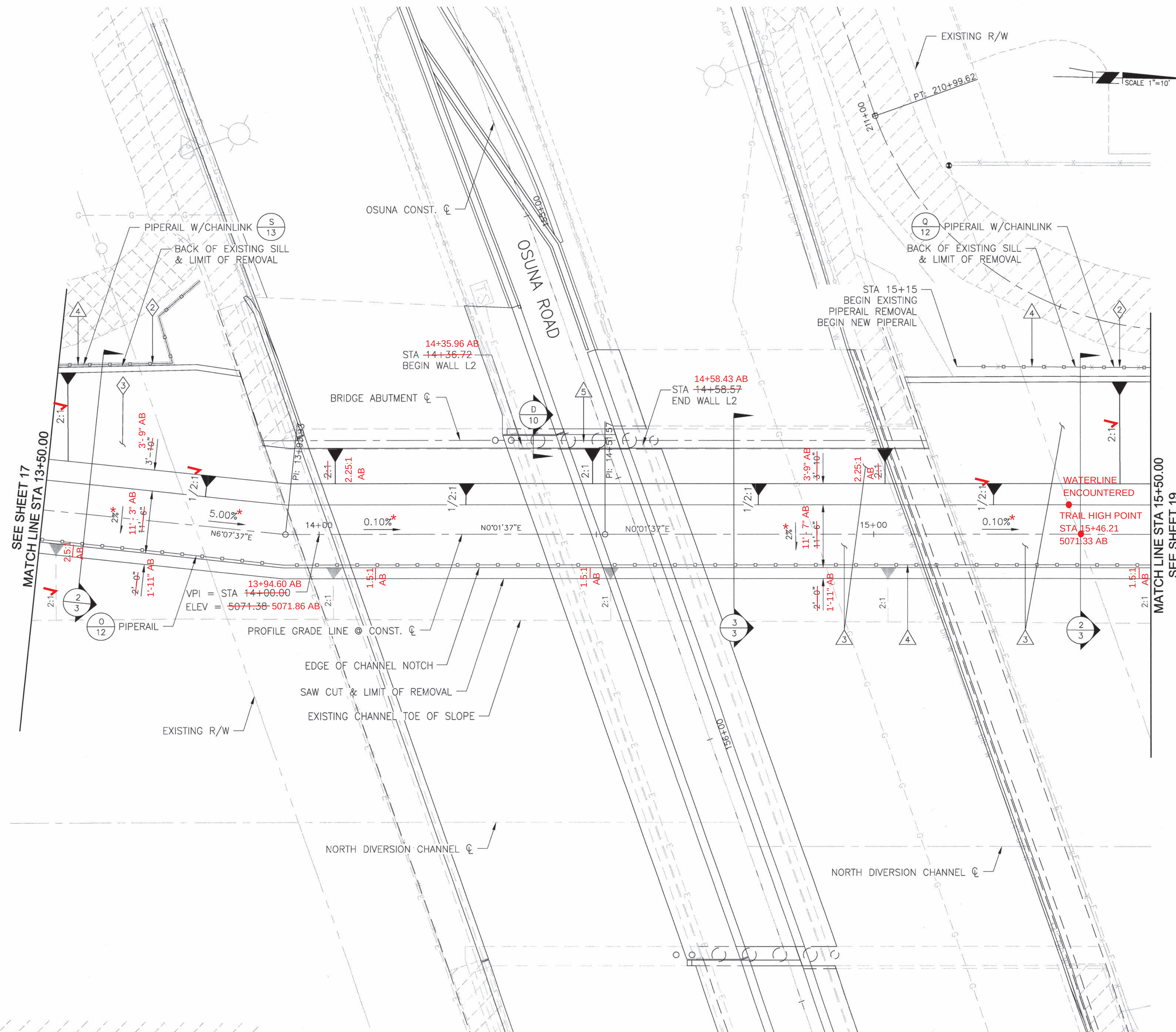
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: **OSUNA ROAD CHANNEL NOTCH PLAN**
STA 10+00.00 TO STA 11+50.00

Design Review Committee: APPROVED OCT 07 2011
City Engineer Approval: APPROVED OCT 07 2011
Last Design Update: _____

Federal Control No. A300950
City Project No. 5575.93
Zone Map No. E16, E17
Sheet 16 Of 25

RECORD DRAWING

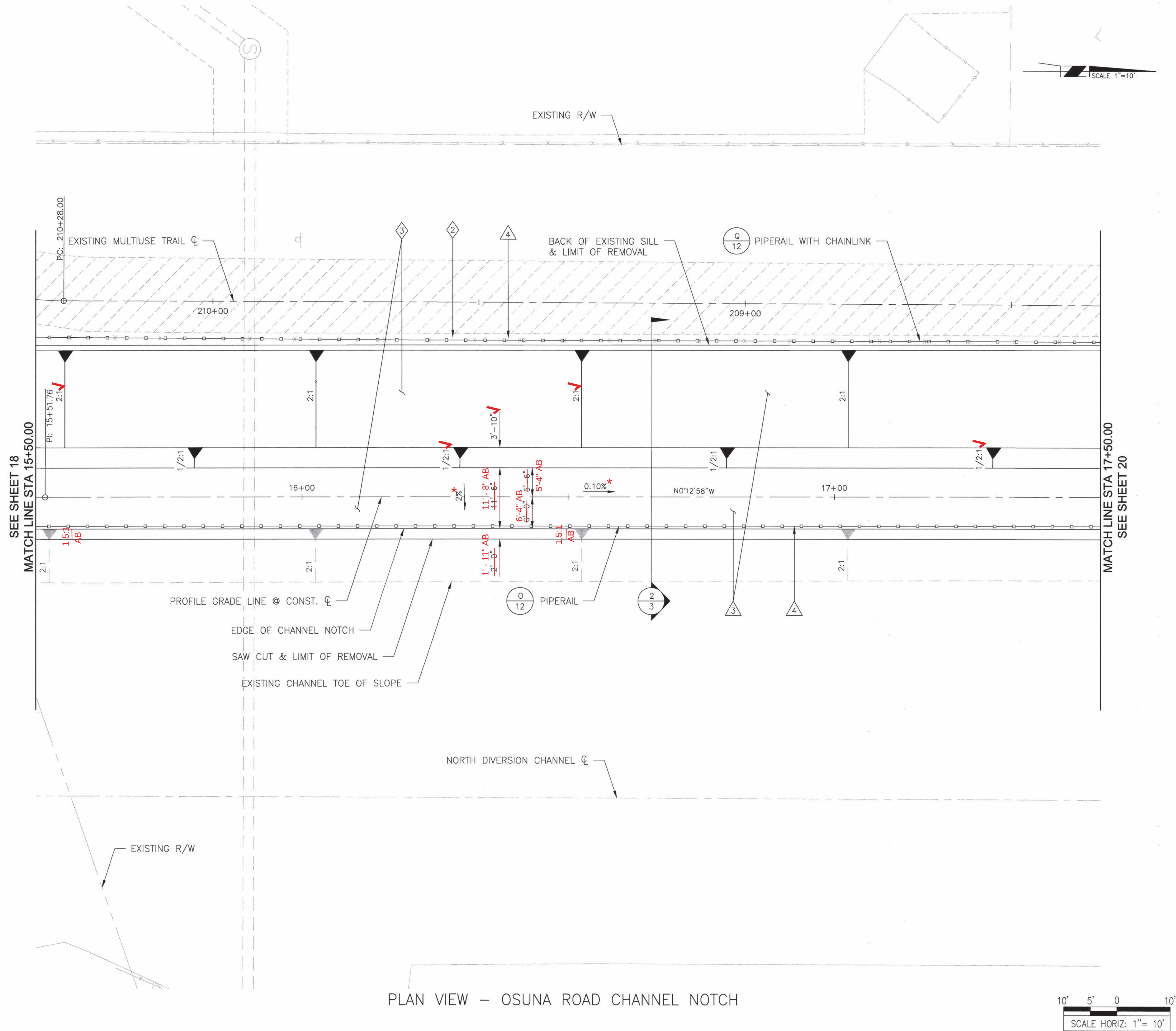


	REMOVAL/RELOCATE	
2	REMOVE EXISTING SAFETY HANDRAIL	150 LF
3	REMOVE CONCRETE CHANNEL LINING	158 CY
	CONSTRUCTION NOTES	
3	CONSTRUCT CHANNEL NOTCH PER TYPICAL SECTION STRUCTURAL CONCRETE (3,500 PSI) STEEL REINFORCEMENT	207 CY 21,381 LBS
4	FURNISH & INSTALL PIPERAIL FURNISH & INSTALL PIPERAIL W/ CHAINLINK PER DETAIL ON SHEET 12	200 LF 88 LF
5	CONSTRUCT RETAINING WALL	350 SF

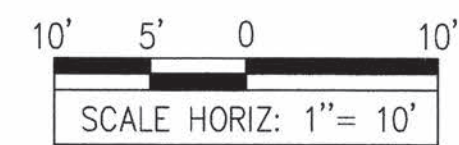
BENCH MARKS		AS BUILT INFORMATION			
ALBUQUERQUE GEOGRAPHIC REFERENCE SYSTEM	WORK	CONTRACTOR	DATE	DATE	DATE
15.216 (1 3/4" ALUMINUM DISK)	STAKED BY				
NM STATE PLANE COORDINATES	ACCEPTANCE BY				
CENTRAL ZONE NAD 1983	FIELD				
	ADJUSTMENT BY				
ELEVATION= 5092.856 (NAVD 1988)	REWORKING				
SW QUADRANT OF OSUNA RD. NE. &	CORRECTED BY				
THE NORTH DIVISION CHANNEL EPOXYED	RECORDED BY				
TO TOP OF CONCRETE BASE OF STREET	NO.				
LIGHT STANCHION					

RECORD DRAWING

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PLAN VIEW - OSUNA ROAD CHANNEL NOTCH



REMOVAL/RELOCATE	
2	REMOVE EXISTING SAFETY HANDRAIL 200 LF
3	REMOVE CONCRETE CHANNEL LINING 202 CY

CONSTRUCTION NOTES	
3	CONSTRUCT CHANNEL NOTCH PER TYPICAL SECTION STRUCTURAL CONCRETE (3,500 PSI) 253 CY STEEL REINFORCEMENT 27,400 LBS
4	FURNISH & INSTALL PIPERAIL 200 LF FURNISH & INSTALL PIPERAIL W/ CHAINLINK 200 LF PER DETAIL ON SHEET 12

AS BUILT INFORMATION	
CONTRACTOR	DATE
STAKED BY	DATE
FIELD ASSESSMENT BY	DATE
CONSTRUCTION BY	DATE
CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	TO TOP OF CONCRETE BASE OF STREET
LIGHT STANCHION	

BENCH MARKS	
ALBUQUERQUE GEOGRAPHIC REFERENCE SYSTEM	DATE
15 EIR (1 3/4\"/>	

SURVEY INFORMATION	
FIELD NOTES	DATE
NO. 1	PRECISION SURVEYS 2009

ENGINEER'S SEAL	

REVISIONS	
NO.	DATE
1	DESIGN
2	DESIGN
3	DESIGN
4	DESIGN
5	DESIGN
6	DESIGN
7	DESIGN
8	DESIGN
9	DESIGN
10	DESIGN
11	DESIGN
12	DESIGN
13	DESIGN
14	DESIGN
15	DESIGN
16	DESIGN
17	DESIGN
18	DESIGN
19	DESIGN
20	DESIGN
21	DESIGN
22	DESIGN
23	DESIGN
24	DESIGN
25	DESIGN

* FOR LONGITUDINAL AND CROSS SLOPES, REFER TO THE ATTACHED SURVEY SHEETS.

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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: **OSUNA ROAD CHANNEL NOTCH**
PLAN
STA 15+50.00 TO STA 17+50.00

Design Review Committee	
APPROVED	DATE: OCT 07 2011

City Engineer Approval	
APPROVED	DATE: OCT 07 2011

Last Design Update	
Mo./Day/Yr.	Mo./Day/Yr.

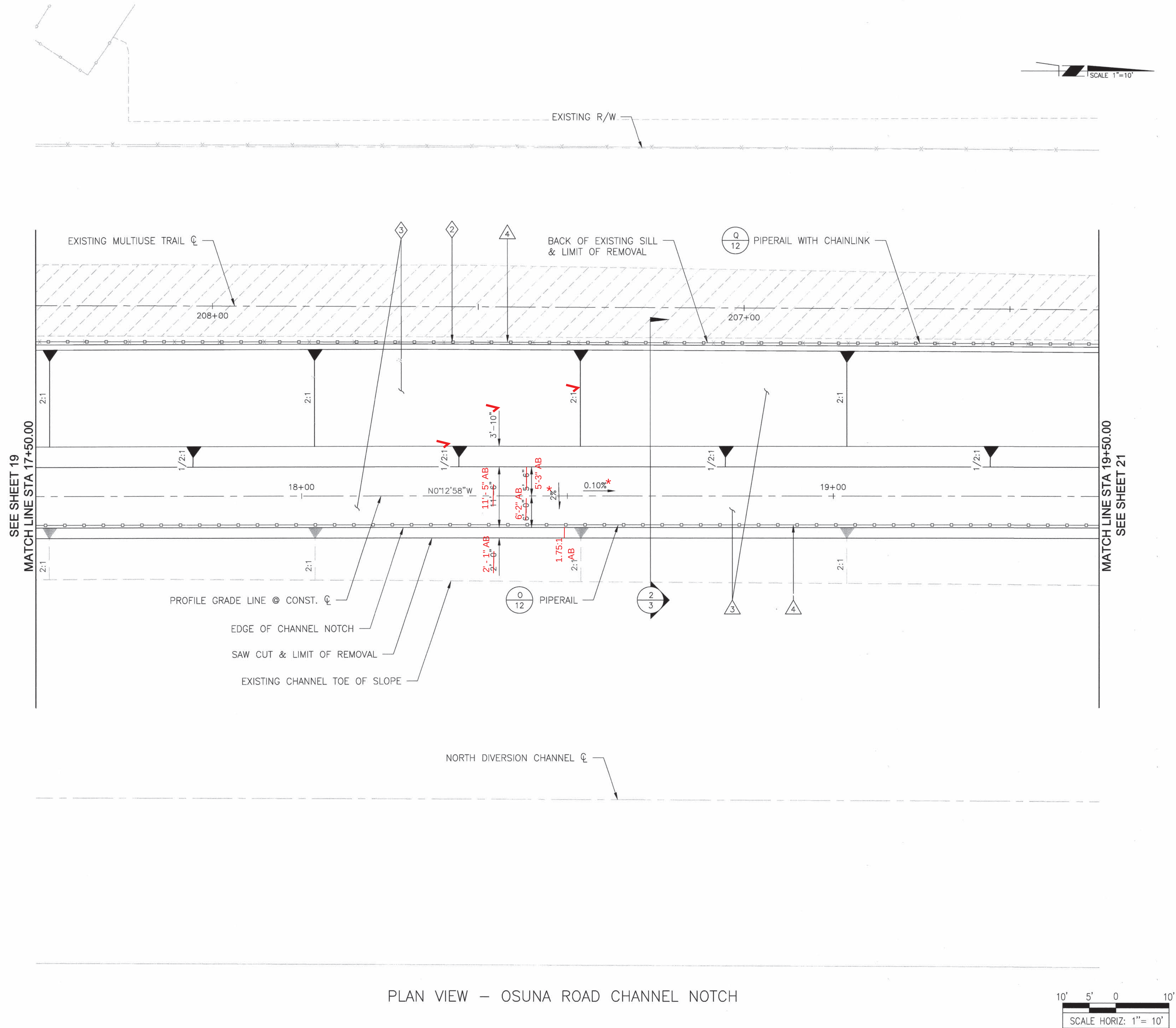
Federal Control No.	
A300950	5575.93

Zone Map No.	
E16, E17	19

Sheet	
19	25

RECORD DRAWING

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REMOVAL/RELOCATE		AS BUILT INFORMATION	
2	REMOVE EXISTING SAFETY HANDRAIL	200 LF	DATE
3	REMOVE CONCRETE CHANNEL LINING	201 CY	DATE
CONSTRUCTION NOTES		DATE	
3	CONSTRUCT CHANNEL NOTCH PER TYPICAL SECTION	252 CY	DATE
	STRUCTURAL CONCRETE (3,500 PSI)	27,256 LBS	DATE
	STEEL REINFORCEMENT		DATE
4	FURNISH & INSTALL PIPERAIL	200 LF	DATE
	FURNISH & INSTALL PIPERAIL W/ CHAINLINK	200 LF	DATE
	PER DETAIL ON SHEET 12		DATE

BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
ALBUQUERQUE GEOGRAPHIC REFERENCE SYSTEM	DATE	NO.	BY	18764 JAMES BARR	
15-E16 (1 3/4" ALUMINUM DISK)	DATE	1	PRECISION SURVEYS	Exp 1 res 12/31/12	
NM STATE PLANE COORDINATES	DATE				
CENTRAL ZONE NAD 1983	DATE				
ELEVATION= 5092.856 (NAVD 1988)	DATE				
SW QUADRANT OF OSUNA RD. NE. & MICRO-FILM INFORMATION	DATE				
THE NORTH DIVISION CHANNEL EXPOSED	DATE				
TO TOP OF CONCRETE BASE OF STREET	DATE				
LIGHT STANCHION	DATE				

* FOR LONGITUDINAL AND CROSS SLOPES, REFER TO THE ATTACHED SURVEY SHEETS.

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MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

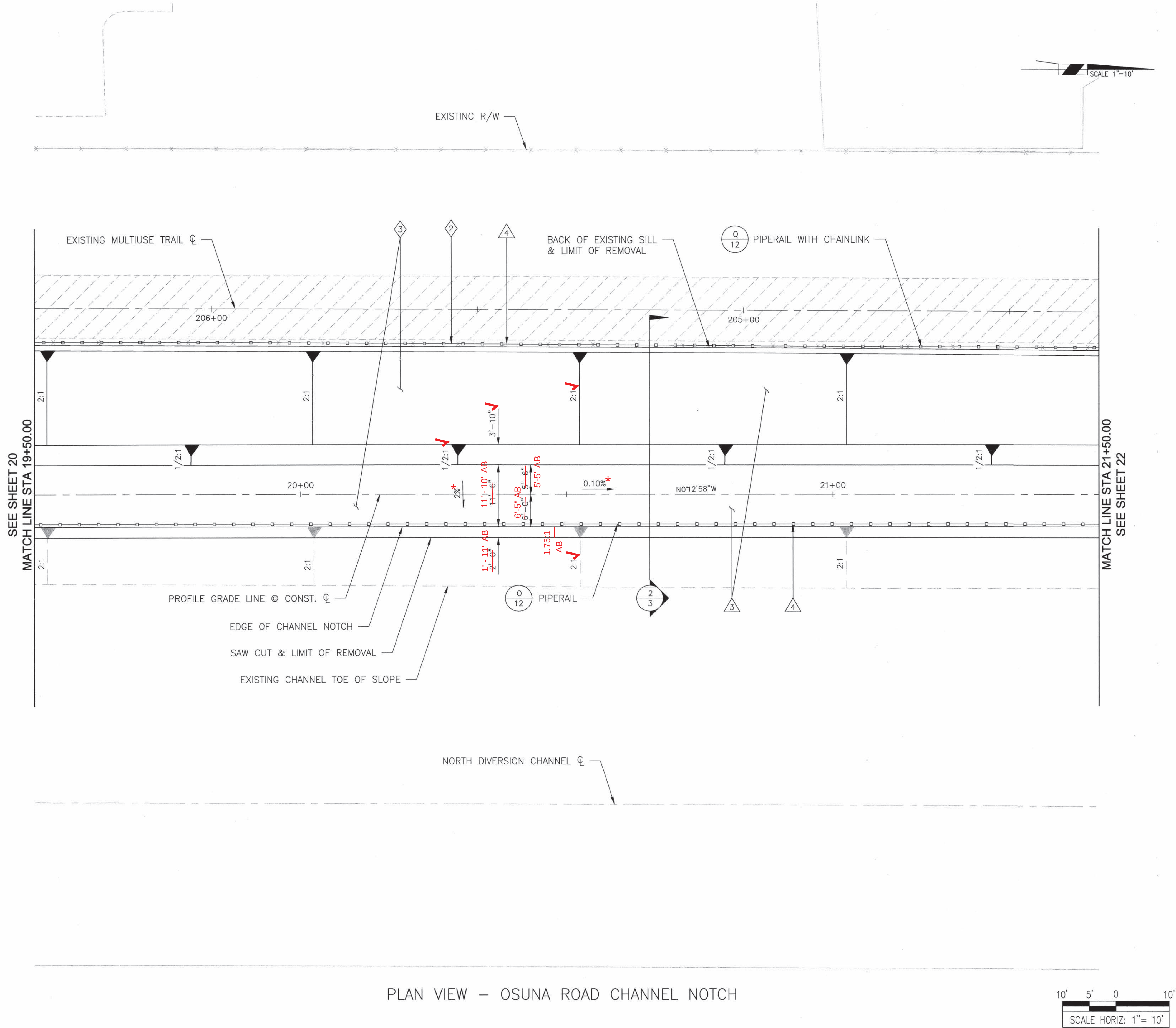
TITLE: **OSUNA ROAD CHANNEL NOTCH PLAN**
STA 17+50.00 TO STA 19+50.00

Design Review Committee	City Engineer Approval	Ms./Day/Yr.	Ms./Day/Yr.
APPROVED OCT 07 2011 DESIGN REVIEW COMMITTEE	APPROVED OCT 07 2011 CITY ENGINEER		

Federal Control No.	City Project No.	Zone Map No.	Sheet	Of
A300950	5575.93	E16, E17	20	25

RECORD DRAWING

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REMOVAL/RELOCATE	
2	REMOVE EXISTING SAFETY HANDRAIL 200 LF
3	REMOVE CONCRETE CHANNEL LINING 197 CY

CONSTRUCTION NOTES	
3	CONSTRUCT CHANNEL NOTCH PER TYPICAL SECTION STRUCTURAL CONCRETE (3,500 PSI) 247 CY STEEL REINFORCEMENT 26,649 LBS
4	FURNISH & INSTALL PIPERAIL 200 LF FURNISH & INSTALL PIPERAIL W/ CHAINLINK 200 LF PER DETAIL ON SHEET 12

AS BUILT INFORMATION	
CONTRACTOR	DATE
STARTED BY	DATE
ACCEPTANCE BY	DATE
FIELD CORRECTION BY	DATE
DRAWINGS	DATE
CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS	
ALBUQUERQUE GEOGRAPHIC REFERENCE SYSTEM	
15-E16 (1 3/4" ALUMINUM DISK)	
NM STATE PLANE COORDINATES	
CENTRAL ZONE NAD 1983	
ELEVATION= 5092.856 (NAVD 1988)	
SW QUADRANT OF OSUNA RD. NE. &	
THE NORTH DIVISION CHANNEL EXPOSED	
TO TOP OF CONCRETE BASE OF STREET	
LIGHT STATION	

SURVEY INFORMATION	
FIELD NOTES	DATE
NO. 1	PRECISION SURVEYS 2009
BY	

ENGINEER'S SEAL	

REVISIONS	
NO.	DATE
BY	
DESIGNED BY: JHALL	DATE: 07/29/2011
DRAWN BY: D.RAY	DATE: 07/29/2011
CHECKED BY: JBARR	DATE: 07/29/2011

* FOR LONGITUDINAL AND CROSS SLOPES, REFER TO THE ATTACHED SURVEY SHEETS.

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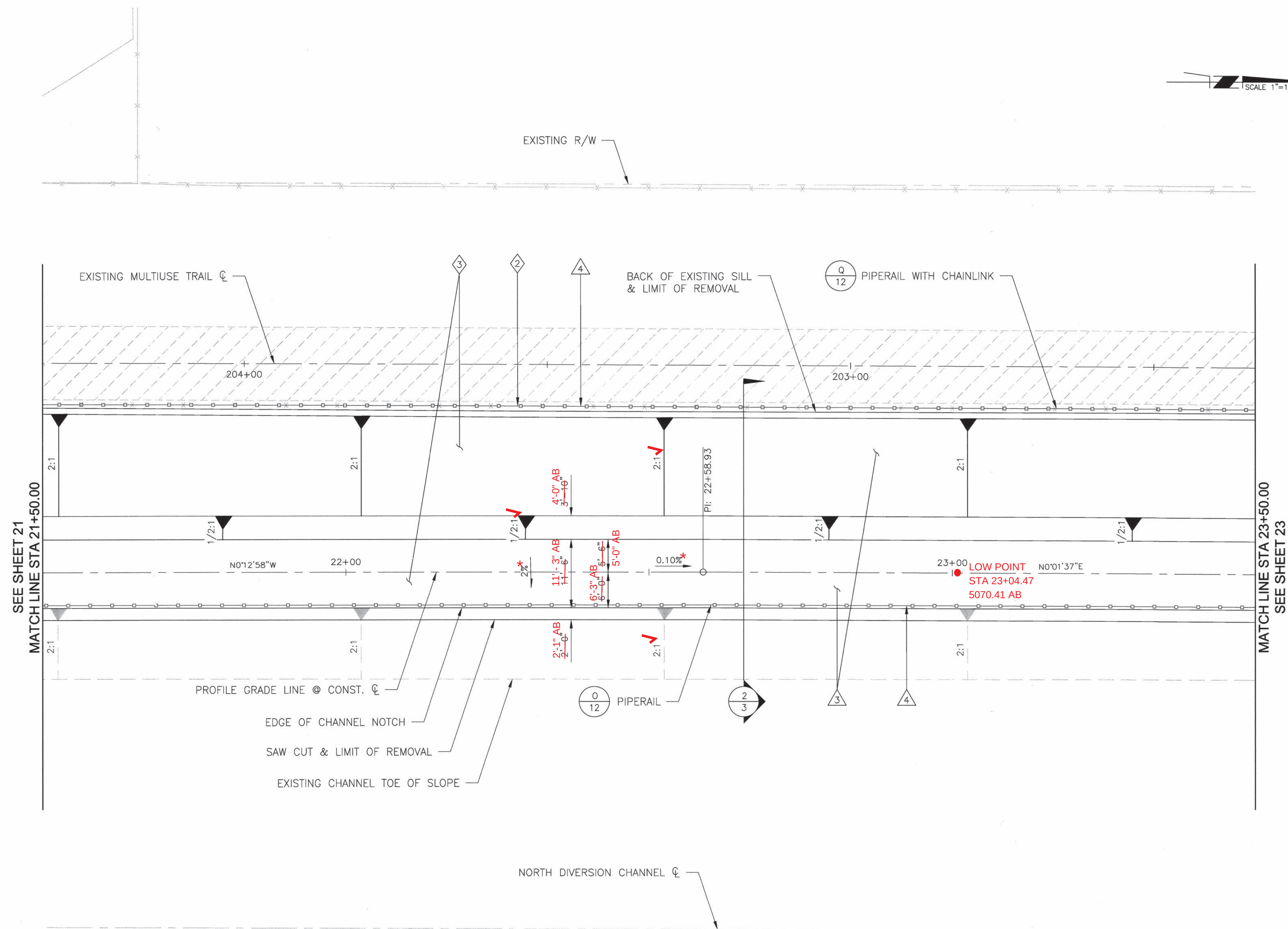
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: **OSUNA ROAD CHANNEL NOTCH PLAN**
STA 19+50.00 TO STA 21+50.00

Design Review Committee	City Engineer Approval	Ms./Day/Yr.	Ms./Day/Yr.

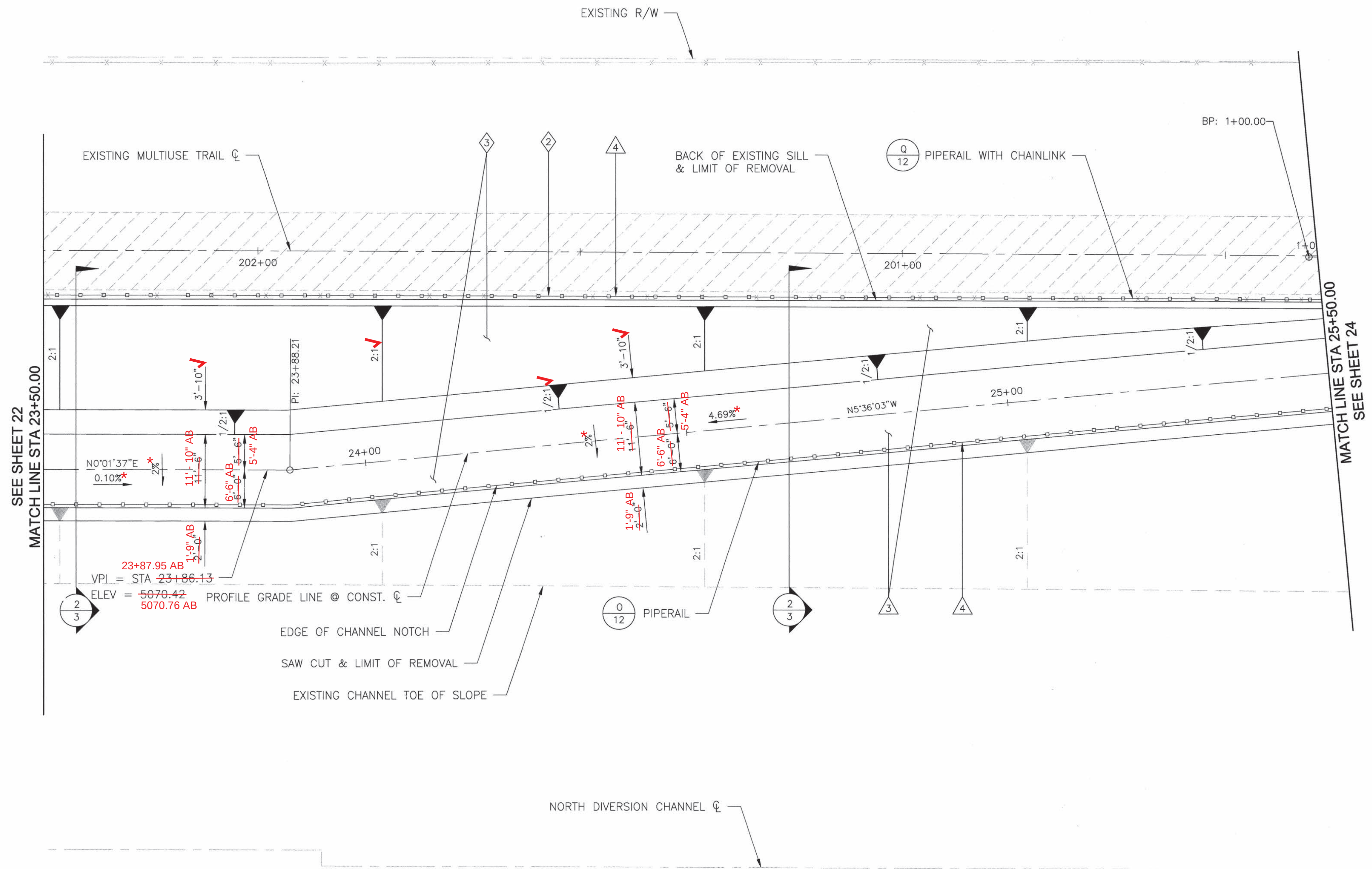
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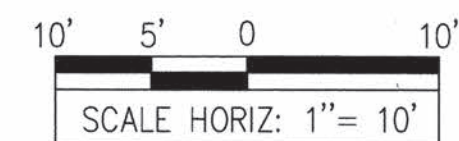


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PLAN VIEW - OSUNA ROAD CHANNEL NOTCH



REMOVAL/RELOCATE	
2 REMOVE EXISTING SAFETY HANDRAIL	200 LF
3 REMOVE CONCRETE CHANNEL LINING	156 CY

CONSTRUCTION NOTES	
1 SAWCUT AND MATCH EXISTING	
3 CONSTRUCT CHANNEL NOTCH PER TYPICAL SECTION STRUCTURAL CONCRETE (3,500 PSI) 206 CY STEEL REINFORCEMENT 21,109 LBS	
4 FURNISH & INSTALL PIPERAIL 201 LF FURNISH & INSTALL PIPERAIL W/ CHAINLINK 200 LF PER DETAIL ON SHEET 12	

AS BUILT INFORMATION	
CONTRACTOR	DATE
WORK	DATE
STAGED BY	DATE
ACCEPTANCE BY	DATE
FIELD ACTION BY	DATE
DRAWING CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS	
ALBUQUERQUE GEOGRAPHIC REFERENCE SYSTEM	
15.E16 (1 3/4" ALUMINUM DISK)	
NM STATE PLANE COORDINATES	
CENTRAL ZONE NAD 1983	
ELEVATION= 5092.856 (NAVD 1988)	
SW QUADRANT OF OSUNA RD. NE. &	
THE NORTH DIVISION CHANNEL EPOXYED	
TO TOP OF CONCRETE BASE OF STREET	
LIGHT STANCHION	

SURVEY INFORMATION	
FIELD NOTES	DATE
NO.	1
PRECISION SURVEYS	2009

ENGINEER'S SEAL	

REVISIONS	
NO.	DATE
DESIGNED BY: J.HALL	DATE: 07/29/2011
DRAWN BY: D.RAY	DATE: 07/29/2011
CHECKED BY: J.BARR	DATE: 07/29/2011

* FOR LONGITUDINAL AND CROSS SLOPES, REFER TO THE ATTACHED SURVEY SHEETS.

260-1990

TY LIN INTERNATIONAL
engineers | planners | scientists
500 4th Street NW Suite 403
Bank of America Centre
Albuquerque, NM 87102

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

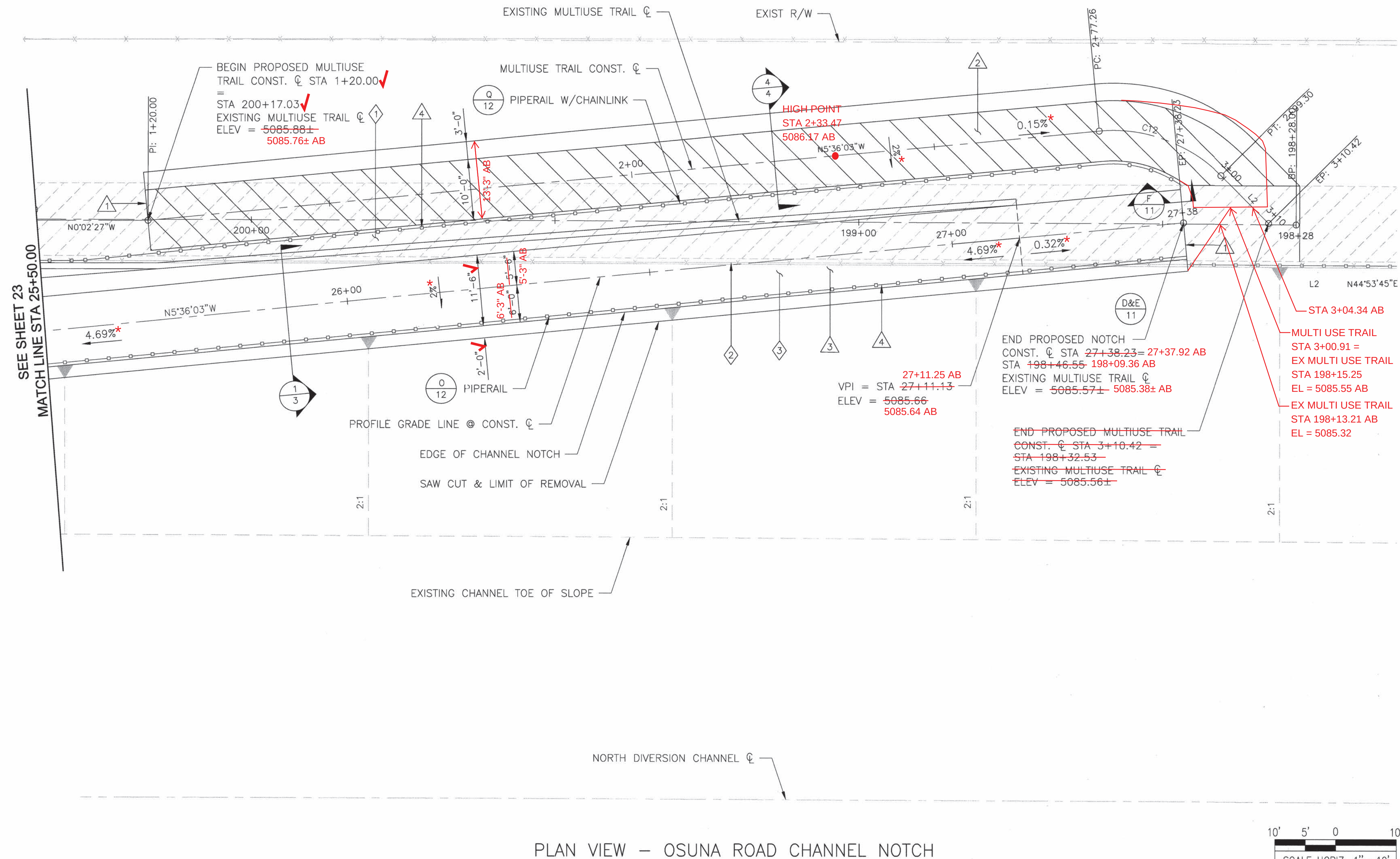
TITLE: **OSUNA ROAD CHANNEL NOTCH**
PLAN
STA 23+50.00 TO STA 25+50.00

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.

Federal Control No.	City Project No.	Zone Map No.	Sheet	Of
A300950	5575.93	E16, E17	23	25

RECORD DRAWING

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PLAN VIEW - OSUNA ROAD CHANNEL NOTCH



REMOVAL/RELOCATE	
1 SAWCUT AND REMOVE ASPHALT PAVT BIKE PATH	258 SY
2 REMOVE EXISTING SAFETY HANDRAIL	189 LF
3 REMOVE CONCRETE CHANNEL LINING	51 CY

CONSTRUCTION NOTES	
1 SAWCUT AND MATCH EXISTING	
2 CONSTRUCT NEW MULTIUSE TRAIL PAVEMENT PER TYPICAL SECTIONS 3\" ASPHALT, TYPE C SUBGRADE PREPARATION	292 SY 340 SY
3 CONSTRUCT CHANNEL NOTCH PER TYPICAL SECTION STRUCTURAL CONCRETE (3,500 PSI) STEEL REINFORCEMENT	115 CY 11,088 LBS
4 FURNISH & INSTALL PIPERAIL FURNISH & INSTALL PIPERAIL W/ CHAINLINK PER DETAIL ON SHEET 12	188 LF 191 LF

AS BUILT INFORMATION	
CONTRACTOR	DATE
WORK	DATE
DESIGNED BY	DATE
ACCEPTANCE BY	DATE
FIELD	DATE
DRAWING	DATE
CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS	
ALBUQUERQUE GEOGRAPHIC REFERENCE SYSTEM	
15.116 (1 3/4\" ALUMINUM DISK)	
NM STATE PLANE COORDINATES	
CENTRAL ZONE NAD 1983	
ELEVATION= 5092.856 (NAVD 1986)	
SW QUADRANT OF OSUNA RD. NE. &	
THE NORTH DIVISION CHANNEL EPOXYED	
TO TOP OF CONCRETE BASE OF STREET	
LIGHT STANCHION	

SURVEY INFORMATION	
FIELD NOTES	DATE
NO. 1	PRECISION SURVEYS
DATE	2009
NO.	
DATE	
NO.	
DATE	
NO.	
DATE	
NO.	
DATE	

ENGINEER'S SEAL	
18764 JAMES BARR	
EXPIRES 12/31/12	

REVISIONS	
NO.	DATE
DESIGNED BY: J.HALL	DATE: 07/29/2011
DRAWN BY: D.RAY	DATE: 07/29/2011
CHECKED BY: J.BARR	DATE: 07/29/2011

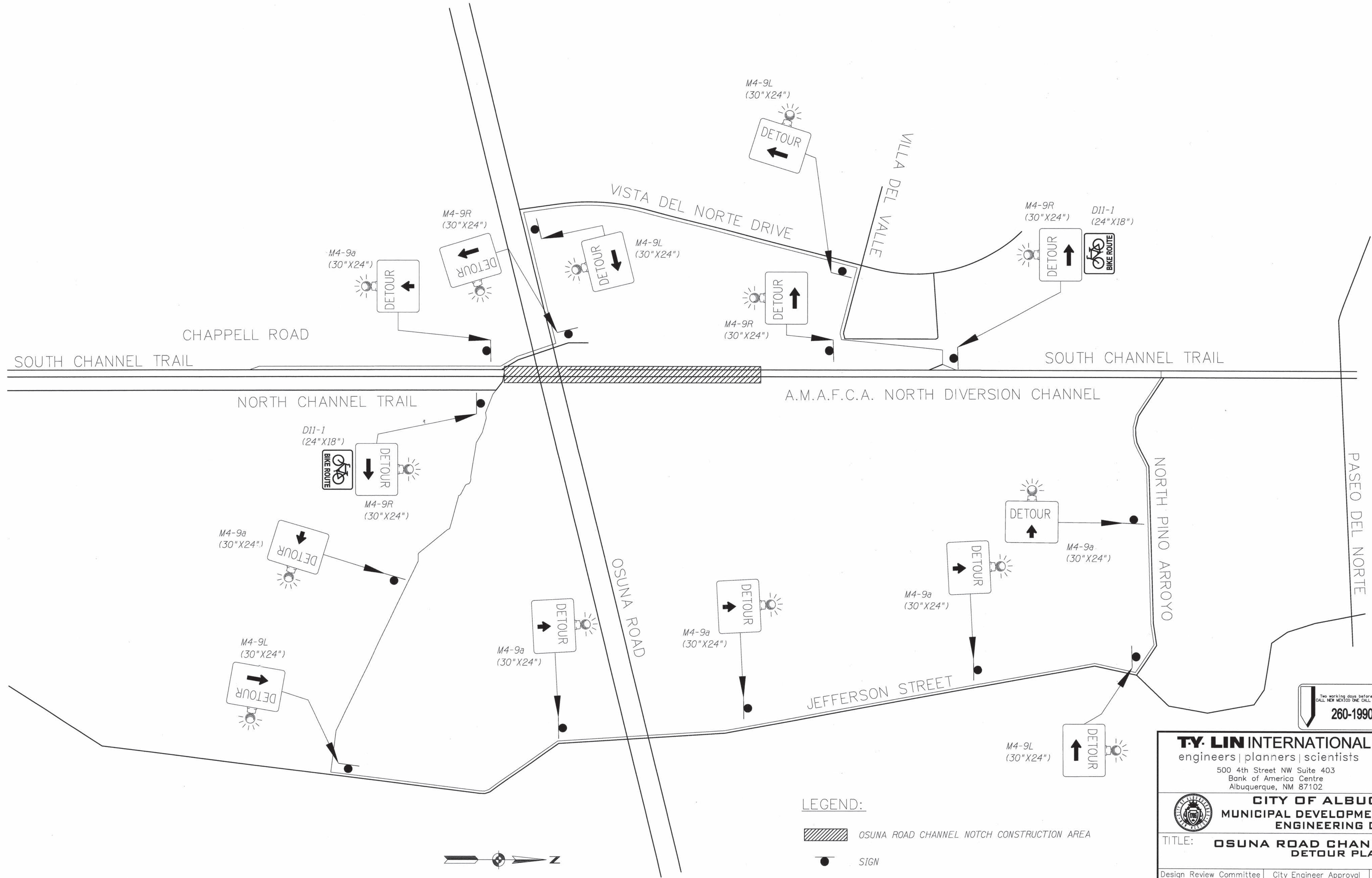
CURVE TABLE	
CURVE	RADIUS
C12	25.00
LENGTH	22.03
STATION	2+89.05
DELTA	50°29'47\"

TY LIN INTERNATIONAL	
engineers planners scientists	
500 4th Street NW Suite 403	
Bank of America Centre	
Albuquerque, NM 87102	

CITY OF ALBUQUERQUE	
MUNICIPAL DEVELOPMENT DEPARTMENT	
ENGINEERING DIVISION	
TITLE: OSUNA ROAD CHANNEL NOTCH PLAN STA 25+50.00 TO STA 27+38.23	
Design Review Committee	City Engineer Approval
Mo./Day/Yr.	Mo./Day/Yr.
APPROVED	APPROVED
DESIGN REVIEW COMMITTEE	CITY ENGINEER
Lost Design Update	
Federal Control No. A300950	City Project No. 5575.93
Zone Map No. E16, E17	Sheet 24 of 25

RECORD DRAWING

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OSUNA ROAD CHANNEL NOTCH - DETOUR PLAN
NOT TO SCALE

LEGEND:

- OSUNA ROAD CHANNEL NOTCH CONSTRUCTION AREA
- SIGN
- TEMPORARY DETOUR

FOR INFORMATION ONLY

TY LIN INTERNATIONAL engineers planners scientists 500 4th Street NW Suite 403 Bank of America Centre Albuquerque, NM 87102	
CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION	
TITLE: OSUNA ROAD CHANNEL NOTCH DETOUR PLAN	
Design Review Committee 	City Engineer Approval
Last Design Update Mo./Day/Yr. _____	
Federal Control No. A300950	City Project No. 5575.93
Zone Map No. E16, E17	Sheet 25 of 25

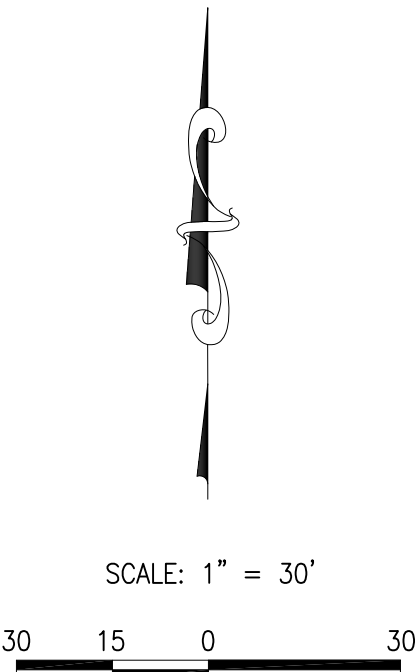
RECORD DRAWING

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES		ALBUQUERQUE GEOGRAPHIC REFERENCE SYSTEM		CONTRACTOR	
NO. DATE		BY DATE		15-E16 (1 3/4" ALUMINUM DISK)		WORK	
REMARKS		PRECISION SURVEYS		NM STATE PLANE COORDINATES		STANDARD BY	
DESIGN		2009		CENTRAL ZONE NAD 1983		ACCEPTANCE BY	
DATE: 07/29/2011				ELEVATION= 5092.856 (NAVD 1988)		FIELD DRAWINGS	
DRAWN BY: DRAY				SW QUADRANT OF OSUNA RD. NE. &		CORRECTED BY	
CHECKED BY: JBARR				THE NORTH DIVISION CHANNEL EXPOSED		MICRO-FILM INFORMATION	
DATE: 07/29/2011				TO TOP OF CONCRETE BASE OF STREET		RECORDED BY	
DATE: 07/29/2011				LIGHT STATION		NO.	

TOPOGRAPHY SURVEY
OSUNA ROAD CHANNEL NOTCH
ALBUQUERQUE, NEW MEXICO
JULY 2012

LEGEND

X 5049.00 SPOT ELEVATION



CONTROL POINT TABLE				
PNT. #	NORTHING	EASTING	ELEVATION	DESCRIPTION
10	1,511,275.9430	1,534,669.7450	5,091.06	CP-10
15	1,512,095.9210	1,534,675.3940	5,088.15	CP-15
50	1,509,902.5510	1,540,298.8210	5,208.13	ACS "15_E17"
53	1,511,755.0700	1,153,464.9910	5,092.86	ACS "15_E16"
55	1,511,591.0888	1,526,679.1960	5,092.86	ACS "17_E15"

NOTES

- COORDINATES ARE GROUND/PROJECT VALUES BASED ON NEW MEXICO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NAD83 DATUM. BASIS OF COORDINATES ARE GPS/RTK TIE TO THE CITY OF ALBUQUERQUE CONTINUOUSLY OPERATING GPS/RTK STATIONS, AND LOCAL CONTROL POINT "2_F16". USE GROUND -TO-GRID FACTOR = 0.999672517140 TO OBTAIN GRID COORDINATES.
- ELEVATIONS ARE NAVD88 DATUM VALUES BASED ON CITY OF ALBUQUERQUE CONTROL POINTS "15_E16". ELEVATION = 5092.856 FEET. CONTOUR INTERVAL IS 1.0 FOOT ELEVATIONS OF ALL SURVEYED POINTS WERE DETERMINED BY GPS/RTK SURVEY METHODS
- FIELD SURVEY WA PREFORMED ON JUNE 13, 2012. COORDINATES AND ELEVATION OF ALL SURVEYED POINTS WERE DETERMINED USING TOPCON GPS/RTK SYSTEM AND GEODIMETER/TRIMBLE 600 SERIES TOTAL STATIONS.



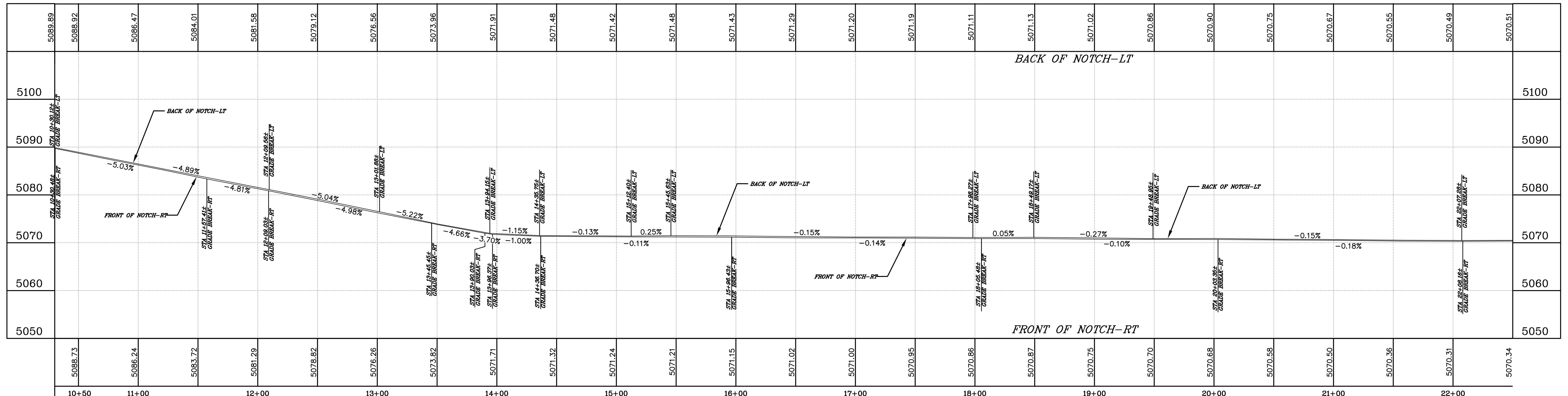
Fred Sanchez
FRED SANCHEZ, NMPS NO. 4078 DATE

JUNE 25, 2012

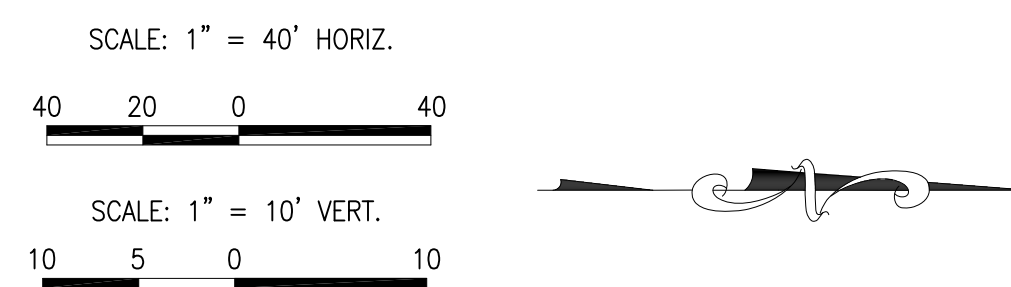
Plat & Survey By:

SHEET 1 OF 1
11035_ASB_7_25_2012

TOPOGRAPHY SURVEY
OSUNA ROAD CHANNEL NOTCH
ALBUQUERQUE, NEW MEXICO
SEPTEMBER 2012



STATION	BACK OF TRAIL LT	FRONT OF TRAIL RT	DIFFERENCE IN ELEVATION	SLOPE
10+50	5088.92	5088.73	0.19	1.7%
11+00	5086.47	5086.24	0.23	2.0%
11+50	5084.01	5083.72	0.29	2.5%
12+00	5081.58	5081.29	0.29	2.5%
12+50	5079.12	5078.82	0.30	2.6%
13+00	5076.56	5076.26	0.30	2.6%
13+50	5073.96	5073.82	0.14	1.2%
14+00	5071.91	5071.71	0.20	1.7%
14+50	5071.48	5071.32	0.16	1.4%
15+00	5071.42	5071.24	0.18	1.6%
15+50	5071.48	5071.21	0.27	2.3%
16+00	5071.43	5071.15	0.28	2.4%
16+50	5071.29	5071.02	0.27	2.3%
17+00	5071.20	5071.00	0.20	1.7%
17+50	5071.19	5070.95	0.24	2.1%
18+00	5071.11	5070.86	0.25	2.2%
18+50	5071.13	5070.87	0.26	2.3%
19+00	5071.02	5070.75	0.27	2.3%
19+50	5070.86	5070.70	0.16	1.4%
20+00	5070.90	5070.68	0.22	1.9%
20+50	5070.75	5070.58	0.17	1.5%
21+00	5070.67	5070.50	0.17	1.5%
21+50	5070.55	5070.36	0.19	1.7%
22+00	5070.49	5070.31	0.18	1.6%
22+50	5070.51	5070.34	0.17	1.5%



CONTROL POINT TABLE					
PNT.	#	NORTHING	EASTING	ELEVATION	DESCRIPTION
10	1,511,275.9430	1,534,669.7450	5,091.06	CP-10	
15	1,512,095.9210	1,534,675.8940	5,088.15	CP-15	
50	1,509,902.5510	1,540,298.8210	5,208.13	ACS "15_E17"	
53	1,511,755.0700	1,534,464.9910	5,092.86	ACS "15_E16"	
5.5	1,511,591.0888	1,526,679.1960	5,092.86	ACS "17_E15"	

NOTES

1. COORDINATES ARE GROUND/PROJECT VALUES BASED ON NEW MEXICO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NAD83 DATUM. BASIS OF COORDINATES ARE GPS/RTK TIE TO THE CITY OF ALBUQUERQUE CONTINUOUSLY OPERATING GPS/RTK STATIONS, AND LOCAL CONTROL POINT "2_F16". USE GROUND -TO- GRID FACTOR = 0.999672517140 TO OBTAIN GRID COORDINATES.
2. ELEVATIONS ARE NAVD88 DATUM VALUES BASED ON CITY OF ALBUQUERQUE CONTROL POINTS "15_E16". ELEVATION = 5092.85 FEET. CONTOUR INTERVAL IS 1.0 FOOT ELEVATIONS OF ALL SURVEYED POINTS WERE DETERMINED BY GPS/RTK SURVEY METHODS
3. FIELD SURVEY WA PERFORMED ON JUNE 13, 2012. COORDINATES AND ELEVATION OF ALL SURVEYED POINTS WERE DETERMINED USING TOPCON GPS/RTK SYSTEM AND GEODIMETER/TRIMBLE 600 SERIES TOTAL STATIONS.



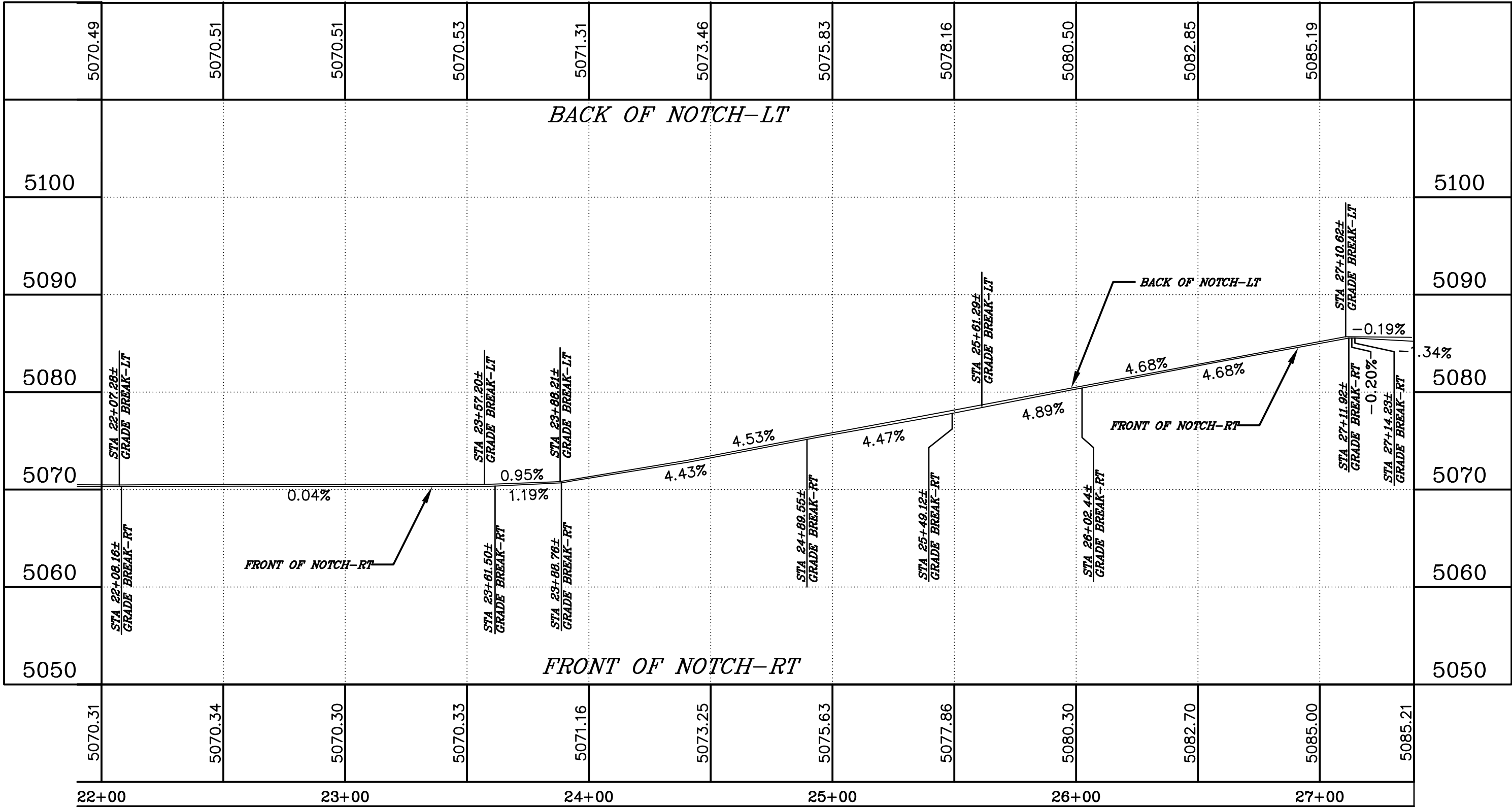
Fred Sanchez
FRED SANCHEZ NMPS NO. 4078 DATE

JUNE 25, 2012

Plat & Survey By:

SHEET 2 OF 3
11035_ASB_9-4_2012

TOPOGRAPHY SURVEY
OSUNA ROAD CHANNEL NOTCH
ALBUQUERQUE, NEW MEXICO
SEPTEMBER 2012



STATION	BACK OF TRAIL LT	FRONT OF TRAIL RT	DIFFERENCE IN ELEVATION	SLOPE
23+00	5070.51	5070.30	0.21	1.8%
23+50	5070.53	5070.33	0.20	1.7%
24+00	5071.31	5071.16	0.15	1.3%
24+50	5073.46	5073.25	0.21	1.8%
25+00	5075.83	5075.63	0.20	1.7%
25+50	5078.16	5077.86	0.30	2.6%
26+00	5080.50	5080.30	0.20	1.7%
26+50	5082.85	5082.70	0.15	1.3%
27+00	5085.19	5085.00	0.19	1.7%

CONTROL POINT TABLE				
PNT. #	NORTHING	EASTING	ELEVATION	DESCRIPTION
10	1,511,275.9430	1,534,669.7450	5,091.06	CP-10
15	1,512,095.9210	1,534,675.3940	5,088.15	CP-15
50	1,509,902.5510	1,540,298.8210	5,208.13	ACS "15_E17"
53	1,511,755.0700	1,153,464.9910	5,092.86	ACS "15_E16"
55	1,511,591.0888	1,526,679.1960	5,092.86	ACS "17_E15"

NOTES

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- FIELD SURVEY WA PREFORMED ON JUNE 13, 2012. COORDINATES AND ELEVATION OF ALL SURVEYED POINTS WERE DETERMINED USING TOPCON GPS/RTK SYSTEM AND GEODIMETER/TRIMBLE 600 SERIES TOTAL STATIONS.



Fred Sanchez
FRED SANCHEZ, NMPS NO. 4078 DATE _____

Plat & Survey By: