

SUMMARY OF QUANTITIES AND INCIDENTAL ITEMS

ITEM NO.	DESCRIPTION	UNIT	ROADWAY		BRIDGE		LANDSCAPING		CONSTRUCTION SIGNING *		PERMANENT SIGNING		CONSTRUCTION ENGINEERING		PROJECT TOTAL	
			ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL
0004.01	CONSTRUCTION STAKING	JOB											1		1	
0004.02	CONSTRUCTION SURVEYING	JOB											1		1	
0006.01	PROJECT CONSTRUCTION SIGN *	EA							2						2	
0006.05	CONSTRUCTION MOBILIZATION	JOB	1												1	
0019.01	TRAFFIC CONTROL/BARRICADING	JOB											1		1	
0030.02	NPDES PLAN/PERMITTING, IMPLEMENTATION AND MONITORING	JOB	1												1	
0201.01	SITE CLEAR & GRUB	AC	2												2	
0204.01	FILL: EXCAVATE, BACKFILL AND COMPACT	CY	80												80	
0205.01	FILL: BORROW, HAUL, BACKFILL, COMPACT	CY	1170												1170	
0301.02	SUBGRADE PREP., 8" DEPTH	SY	2080												2080	
0301.03	SUBGRADE PREP., 6" DEPTH	SY	736												736	
0336.054	BIKE TRAIL ASPH. CONC., TYPE C, 3"	SY	1892												1892	
0337.99	LTWEIGHT FIBER REINF. CONC BRIDGE DECK - W/ SEALANT	SY			154										154	
0340.023	ACCESSIBLE RAMP, 4", P.C.C.	SY	42												42	
0343.02	ASPHALT PVMT; SAWCUT, REM & DISP, <4"	SY	274												274	
0343.08	CONC. CURB & GUTTER, REM & DISPOSE	LF	20												20	
0343.085	4" CONC SIDEWALK; REMOVE & DISPOSE	SY	21												21	
0410.109	2-BAR SAFETY RAILING	LF	977												977	
0440.001	4" REFLECTIVE STRIPING (PAINT APPLIED)	LF	676												676	
0440.021	REFLECTIVE PVMT MARKING "STOP AHEAD"	EA	2												2	
0450.001	ALUMINUM PANEL SIGN	SF									18.4				18.4	
0450.01	STEEL SIGN POST AND BASE	LF									61.5				69	
0501.01	STRUCT. EXCAV., BACKFILL, & COMP.	CY	17												17	
0510.11	REINFORCED STRUCT. CONCRETE, 4000 PSI	CY	10												10	
0510.12	REINF. P.C.C. WALL FOOTING	CY	18												18	
0520.049	PREFABRICATED STEEL BRIDGE, INSTALLED	EA			1										1	
1011.01	CLASS "A" NATIVE SEEDING	AC					1								1	

* INDICATES NON-PARTICIPATING FUNDING ITEM

MISCELLANEOUS QUANTITIES

SURFACING QUANTITIES					301.020 SUBGRADE PREP. 8"		301.030 SUBGRADE PREP. 6"		336.054 3" ASPHALT PAVING		337.099 - 4" CONC. SLAB W/ FIBER REINF.		340.023 4" CONC. CURB RAMP	
DESCRIPTION	BEGIN STATION	END STATION	LOCATION	LENGTH (FT)	WIDTH (FT)	SY	WIDTH (FT)	SY	WIDTH (FT)	SY	WIDTH (FT)	SY	WIDTH (FT)	SY
12' ASPHALT TRAIL	30+00	32+05	PROJECT Q	205	13	296	4	91	12	274				
ASPHALT TRAIL INTERSECTION	10+06	10+15	PROJECT Q	9	VARIES	21	4	4	VARIES	15				
CONCRETE BRIDGE DECK	10+15	10+41	PROJECT Q	126							11	154		
10' ASPHALT TRAIL	11+41	25+83	PROJECT Q	1442	11	1763	4	641	10	1603				
CONC. CURB ACCESS RAMP	25+83.5	25+96	PROJECT Q	12.5									VARIES	42
TOTALS						2080		736		1892		154		42

SURFACING DEMOLITION QUANTITIES					343.020 - ASPHALT SAWCUT, REM & DISP		343.080 - CONC. CURB & GUTTER, R&D		343.085 - CONC. SIDEWALK, REM & DISP	
DESCRIPTION	BEGIN STATION	END STATION	LOCATION	LENGTH (FT)	WIDTH (FT)	SY	LF	WIDTH (FT)	SY	
ASPHALT - SAWCUT, REM. AND DISP.	30+00	32+05	PROJ. CL & LT	205	12	274				
CONC. SIDEWALK, REM. & DISP.	25+96	25+96	15.5' LT & RT	31				6	21	
CONC. CURB & GUTTER, REM. & DISP.	26+02	26+02	7-17' LT & RT	20			20			
TOTALS						274	20		21	

RETAINING WALL QUANTITIES					510.110 STRUCT. CONC.		510.120 REINF. WALL FOOTING	
DESCRIPTION	BEGIN STATION	END STATION	LOCATION	LENGTH (FT)	HEIGHT	CY	CY	
CONCRETE RETAINING WALL	30+65	30+97	CHANNEL EDGE	32	VARIES	1.25	2.25	
CONCRETE RETAINING WALL	31+08	31+40	CHANNEL EDGE	32	VARIES	1.25	2.25	
BRIDGE ABUTMENT	10+15 LT	10+15 RT	CHANNEL EDGE	12	VARIES	2.5	4.5	
BRIDGE ABUTMENT	11+41 LT	11+41 RT	CHANNEL EDGE	12	VARIES	2.5	4.5	
CONCRETE RETAINING WALL	11+43 LT	11+43 RT	CHANNEL EDGE	64	VARIES	2.5	4.5	
TOTALS						10	18	

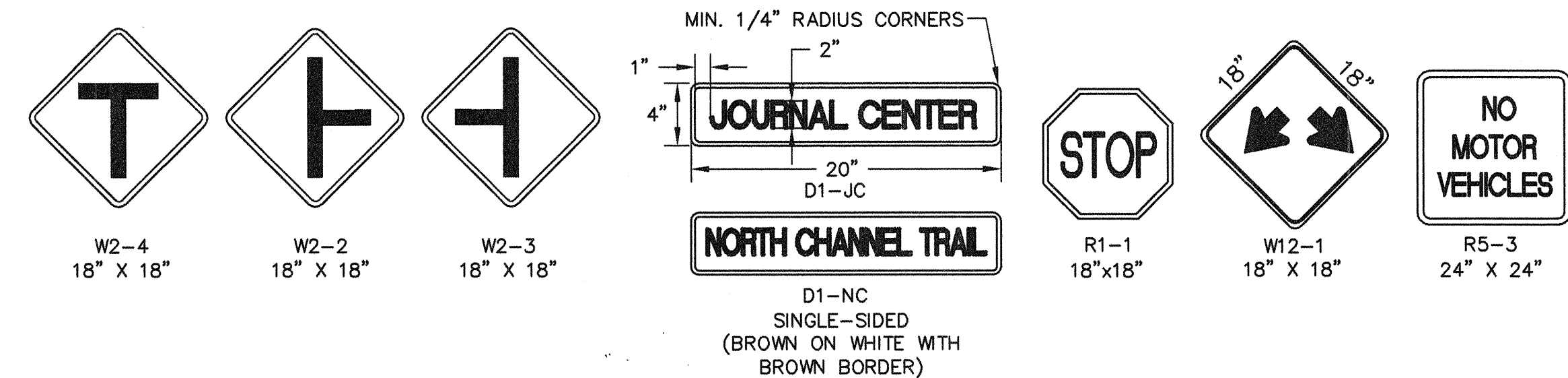
BID ITEM 410.109 - 2-BAR SAFETY RAILING			
BEGIN STATION	END STATION	LOCATION	LF
30+65	30+97	CHANNEL EDGE	32
31+08	31+40	CHANNEL EDGE	32
11+43 LT	11+43 RT	CHANNEL EDGE	64
12+16	18+89	6.5' LT	673
19+24	21+00	6.5' LT	176
TOTAL			977

INCIDENTAL ITEMS		
DESCRIPTION	LOCATION	INCIDENTAL TO BID ITEM NO.
WATER FOR GEN. PROJECT USE	PROJECT	0006.05
12" WIDE ASPHALT PAVEMENT REPLACEMENT ADJACENT TO CONCRETE CURB RAMP WORK (IF NECESSARY)	26+02	0340.023
REMOVE AND REINSTALL EXISTING FENCE	30+00 TO 32+05 (RT)	0205.01
8' TEMPORARY ASPHALT TRAIL DETOUR	30+00 TO 32+05 (RT)	0019.01
MODIFICATIONS TO EXISTING 2-BAR RAIL TO TIE INTO NEW RAIL PER NOTES 4, 5 AND 14, SHEET 4.	30+65 TO 30+97 (TOP OF CHANNEL) 31+08 TO 31+40 (TOP OF CHANNEL) 11+43 (LT. & RT.) (TOP OF CHANNEL)	0410.109
PAINT FOR 2-BAR RAILINGS	30+65 TO 30+97 (TOP OF CHANNEL) 31+08 TO 31+40 (TOP OF CHANNEL) 11+43 (LT. & RT.) (TOP OF CHANNEL) 12+16 TO 18+89 (6.5' LT) 19+24 TO 21+00 (6.5' LT)	0410.109
MISC. PLATES, ANCHOR BOLTS, ETC.	10+15 TO 11+41	0520.049
HAUL, STOCKPILE EXISTING SALVAGEABLE MATERIALS	PROJECT	0201.01
EARTHWORK HAUL	PROJECT	0205.01
URETHANE SEALANT AND WATER REPELLENT TREATMENT	10+00 TO 19+04	0337.009
REINFORCING BARS	PROJECT	0510.11 0510.12
EXPANSION JOINT COVERS, ISOLATION JOINTS	10+00 TO 19+04	0340.023 0337.099

PERMANENT SIGNING/MARKING DETAILS AND QUANTITIES

BID ITEM 450.001 – ALUMINUM PANEL SIGN					BID ITEM 450.010 – STEEL POST AND BASE POST		
STATION	LOCATION	SIGN CODE	NO. OF FACES	TOTAL SQUARE FEET	NO. POSTS (2" SQ.)	POST LENGTH	BASE-POST LENGTH
30+00	9' RT.	W2-3	1	2.25	1	8.5'	3.5'
30+00	9' RT.	D1-JC	1	0.56	*	*	—
31+79.5	9' LT.	W2-2	1	2.25	1	8.5'	3.5'
31+79.5	9' LT.	D1-JC	1	0.56	*	*	—
10+12.75	8' LT.	R1-1	1	1.86	1	9'	3.5'
11+45	9' LT.	W2-4	1	2.25	1	8.5'	3.5'
11+45	9' LT.	D1-NC	1	0.56	*	*	—
25+95.4	15.5' LT.	R1-1	1	1.86	1	6.5'	3.5'
25+95.4	15.5' LT.	R5-3	1	4.0	*	*	—
25+96	Q	W12-1	1	2.25	1	7'	3.5'
TOTAL:				18.4'	SUBTOTAL:	48.0'	SUBTOTAL: 21.0'
					TOTAL LENGTH: 69.0'		

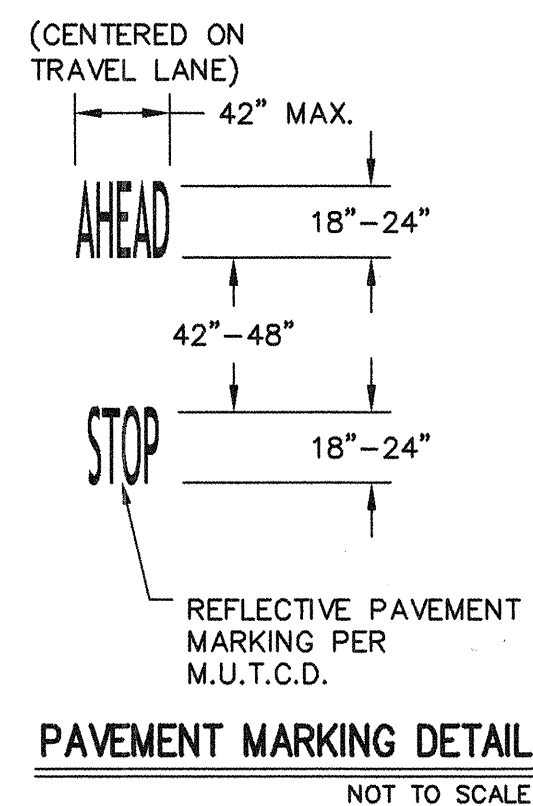
* THESE SIGNS TO BE MOUNTED ON COMMON POST WITH ANOTHER SIGN.

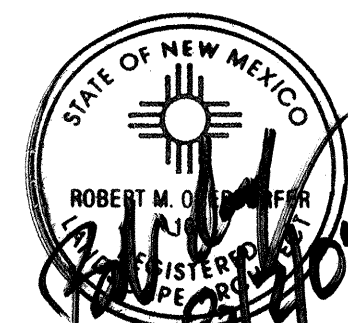


BID ITEM 0440.001 - REFLECTORIZED PAINTED MARKING						
BEGIN STA.	END STA.	4" BROKEN YELLOW**	4" SOLID YELLOW	4" SOLID WHITE	REMARKS	
30+00	32+05	-	205'	-	Q STRIPE	
10+00	10+50	-	50'	-	Q STRIPE	
10+50	25+33.5	371	-	-	Q STRIPE	
25+33.5	25+83.5	-	50'	-	Q STRIPE	
SUBTOTALS:		371	305'	-	TOTAL: 676 L.F.	

** BROKEN STRIPING SHALL BE AT A 1:3 RATIO: 3' STRIPES SEPARATED BY 9' GAPS. PAYMENT WILL BE MADE FOR ACTUAL PAINT APPLIED.

BID ITEM 0440.021 - REFLECTORIZED PAVEMENT MARKING "STOP AHEAD"				
BEGIN STA.	END STA.	LOCATION	"STOP AHEAD"	REMARKS
10+65	10+73	2.5' LT.	1	CENTER ON WEST BOUND SIDE OF TRAIL
25+26	25+34	2.5' RT.	1	CENTER ON SOUTH BOUND SIDE OF TRAIL
TOTAL:			2	





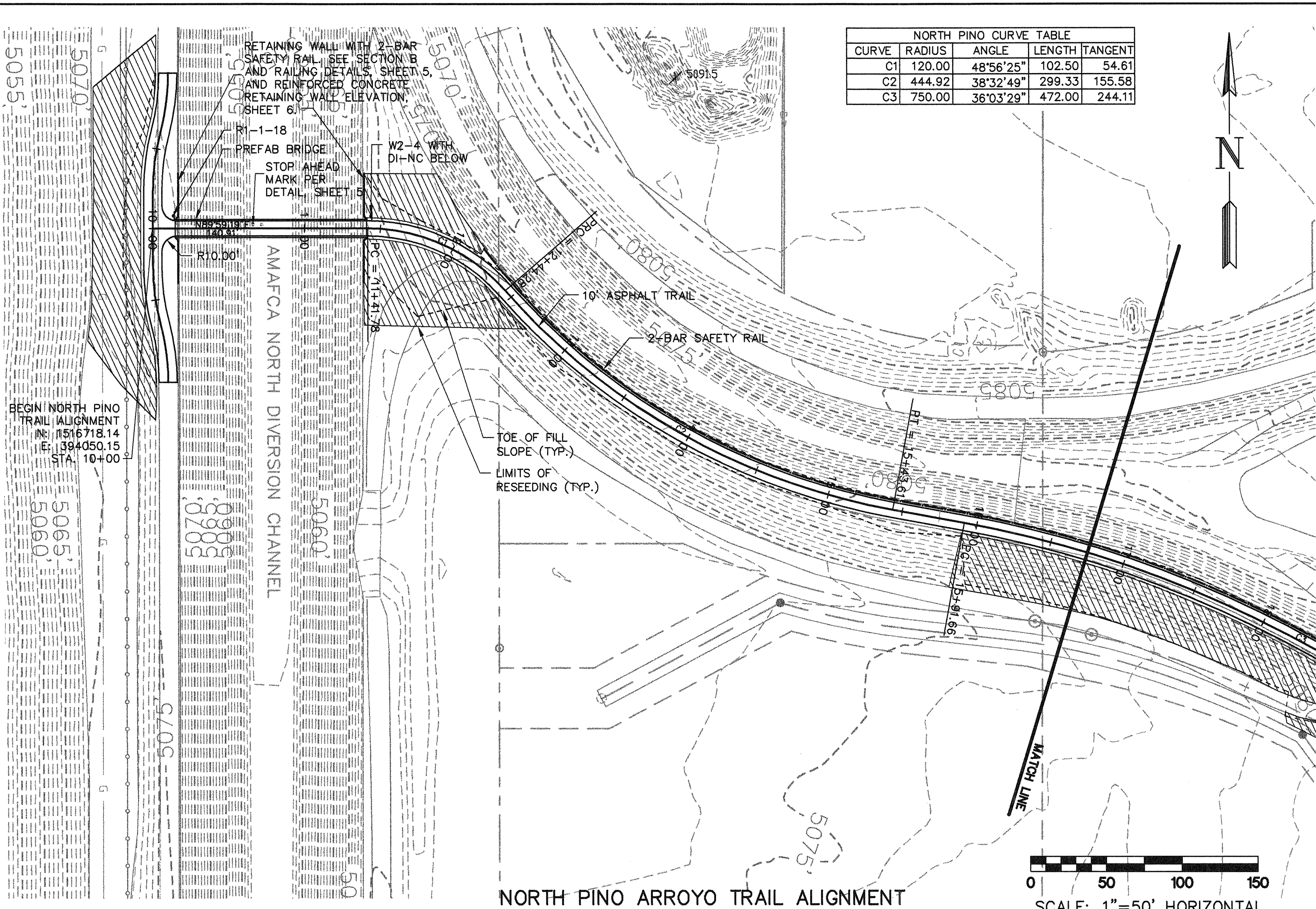
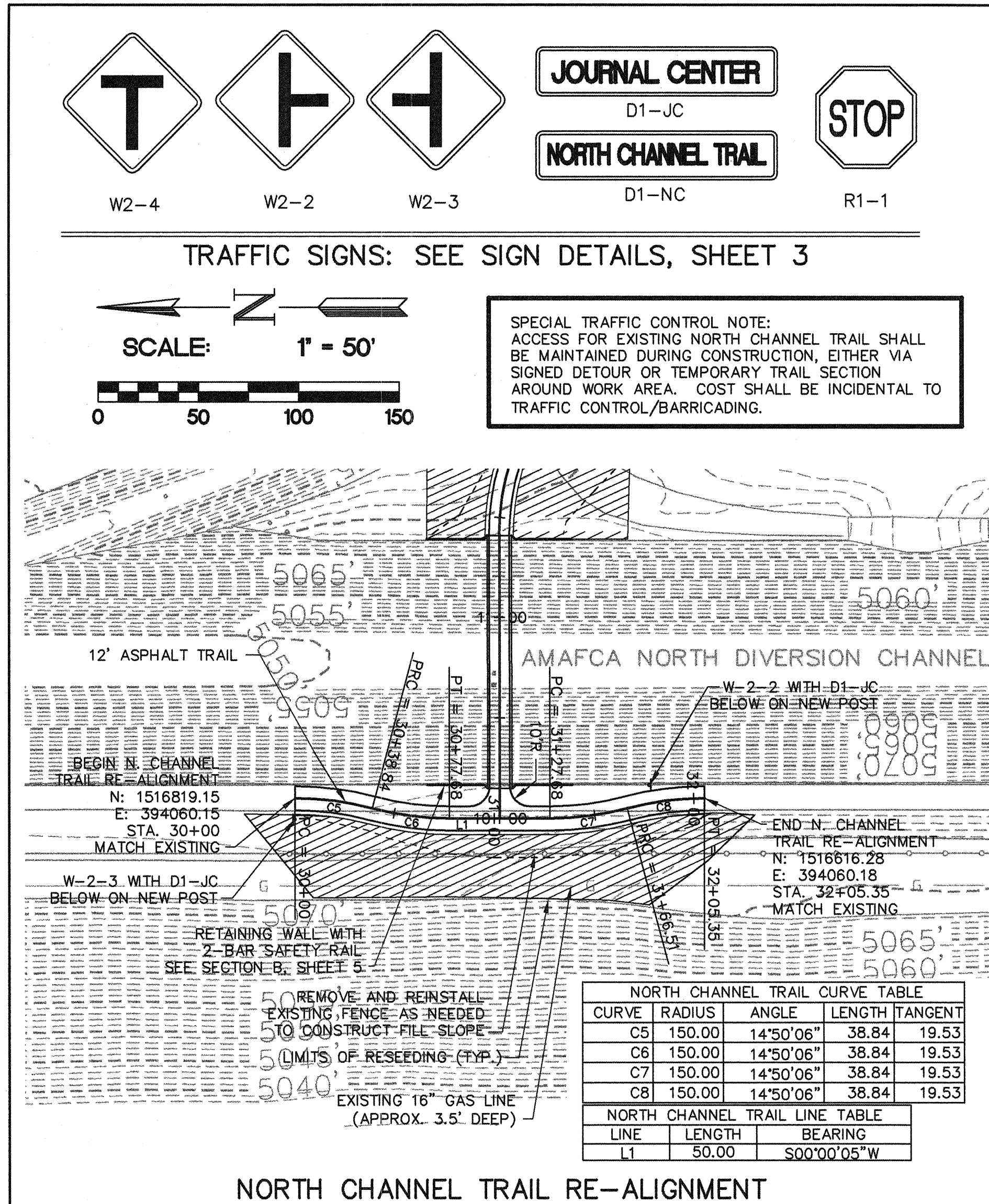
Resource Technology, Inc.
Civil Engineering
Environmental Sciences
Water Resources
Landscape Architecture
Planning
5501 Jefferson Blvd. NE, Suite 200
Albuquerque, New Mexico 87109
E-mail: rti@rti.net
Telephone: (505) 243-7300
Facsimile: (505) 243-7400

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
TRANSPORTATION DIVISION

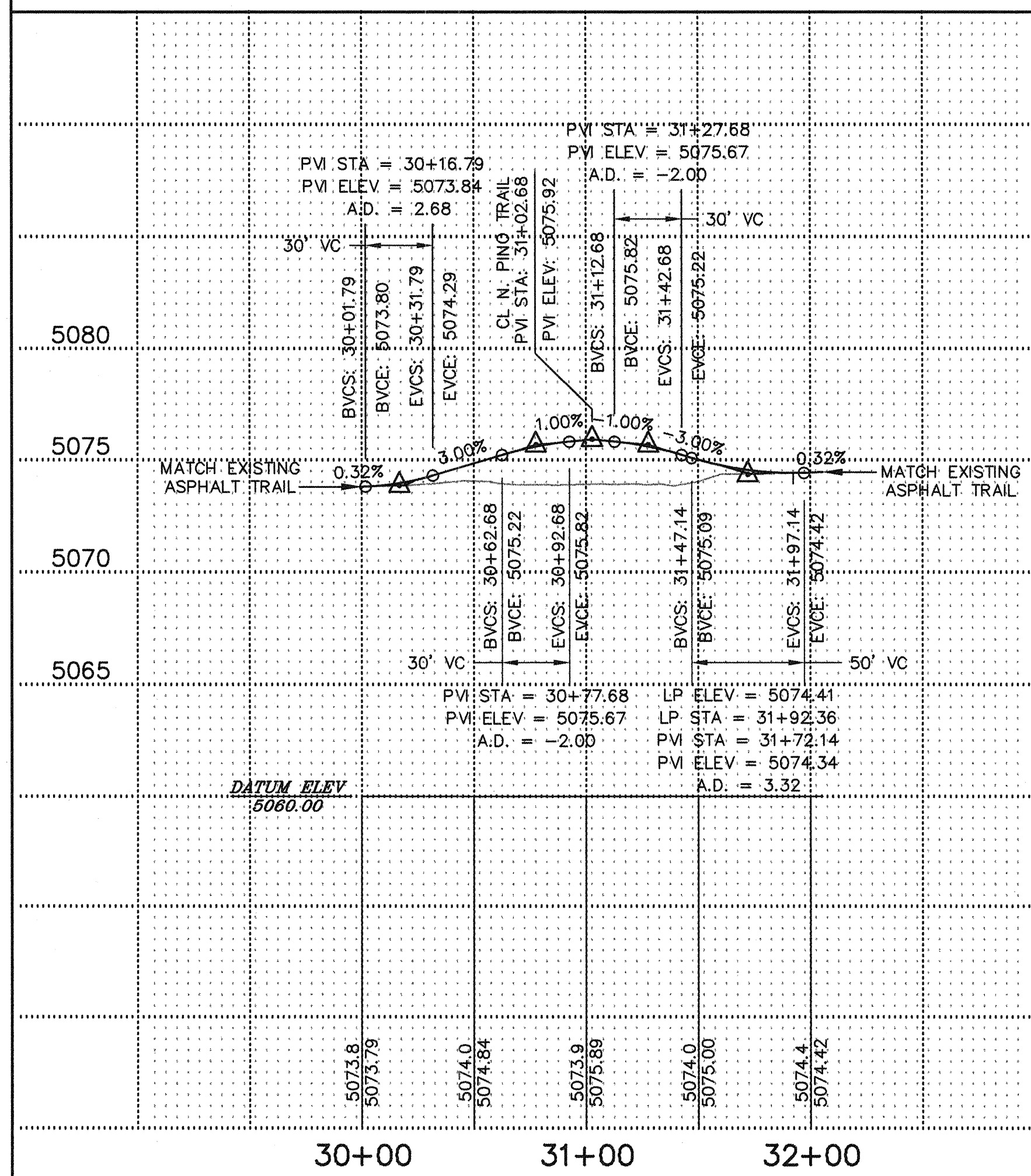
TITLE: **JOURNAL CENTER TRAILS
NORTH PINO ARROYO TRAIL
QUANTITY TABLES**

Design: Approved
Reviewed: Approved
City Engineer: Approved
Last Design Update: SEP 21 2004

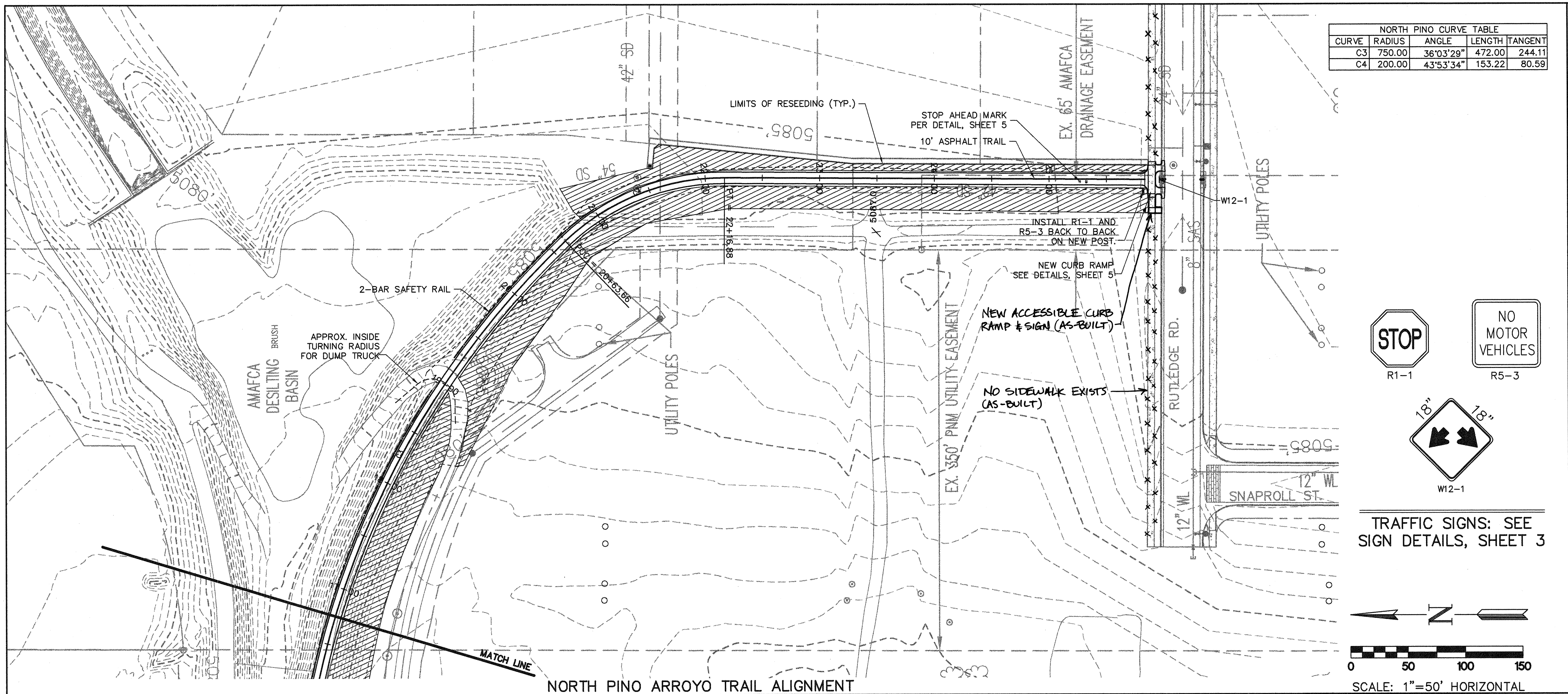
Project No. **630194** Map No. **D-17-Z** Sheet **3** of **9**



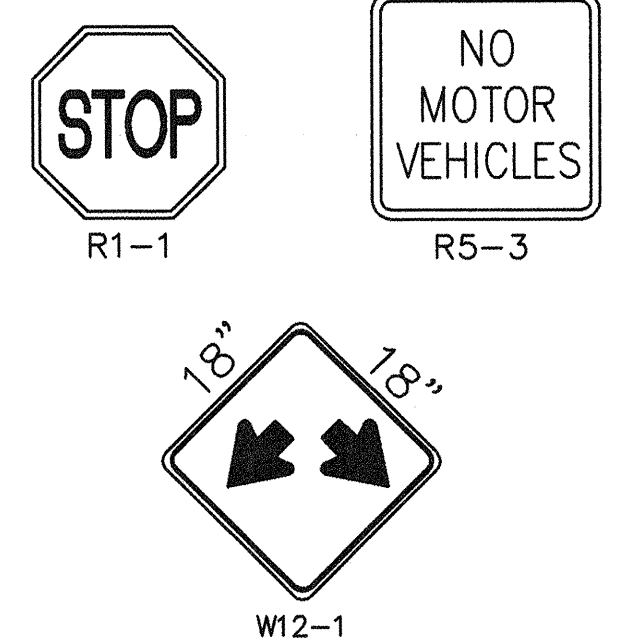
- NOTES:
NORTH CHANNEL TRAIL REALIGNMENT
- STA. 30+00 - SAWCUT EXISTING ASPHALT TO CLEAN STRAIGHT EDGES. APPLY TACK COAT TO CUT SURFACE, BEGIN CONSTRUCTION OF 12' WIDE ASPHALT TRAIL MATCH EXISTING ASPHALT.
 - STA. 30+00 (9' RT.) - INSTALL W2-3 SIGN, WITH D1-JC SIGN BELOW, ON NEW POST PER MUTCD (LATEST EDITION), PART 9.
 - STA. 30+00 TO 32+05 - APPLY 4" SOLID YELLOW REFLECTIVE STRIPE ALONG TRAIL CENTER LINE.
 - STA. 30+65 TO 30+97 (LT.) - BUILD CONCRETE RETAINING WALL AT EDGE OF CHANNEL WITH 2-BAR SAFETY RAILING PER SECTION B AND RAILING DETAILS, SHEET 5, AND REINFORCED CONCRETE RETAINING WALL ELEVATION, SHEET 6. NEW 2-BAR RAILING TO TIE IN TO EXISTING RAILING AT NEAREST POST (EXACT LENGTH TO BE DETERMINED). RAILING POSTS TO BE SPACED EQUALLY, BUT NO MORE THAN 10' ON CENTER, MAXIMUM.
 - STA. 31+08 TO 31+40 (LT.) - BUILD CONCRETE RETAINING WALL AT EDGE OF CHANNEL WITH 2-BAR SAFETY RAILING PER SECTION B AND RAILING DETAILS, SHEET 5, AND REINFORCED CONCRETE RETAINING WALL ELEVATION, SHEET 6. NEW 2-BAR RAILING TO TIE IN TO EXISTING RAILING AT NEAREST POST (EXACT LENGTH TO BE DETERMINED). RAILING POSTS TO BE SPACED EQUALLY, BUT NO MORE THAN 10' ON CENTER, MAXIMUM.
 - STA. 31+79.5 (9' LT) - INSTALL W2-2 WITH D1-JC BELOW, ON NEW POST SET BEHIND EXISTING SAFETY RAIL; PER MUTCD (LATEST EDITION), PART 9.
 - STA. 32+05.35 - SAWCUT EXISTING ASPHALT TO CLEAN STRAIGHT EDGES. APPLY TACK COAT TO CUT SURFACE; END CONSTRUCTION OF 12' WIDE ASPHALT TRAIL MATCH EXISTING ASPHALT.
 - NORTH PINO ARROYO TRAIL
 - STA. 10+00 TO STA 25+83.47 - CONSTRUCT 10' WIDE ASPHALT TRAIL. MATCH NEW NORTH CHANNEL TRAIL ASPHALT. PROVIDE 10' RADII AT INTERSECTION WITH NORTH CHANNEL TRAIL.
 - STA 10+13 (8' LT) - INSTALL STOP SIGN R1-1 PER MUTCD (LATEST EDITION), SECTION 9.
 - STA. 10+15 TO 11+41 - CONSTRUCT CONCRETE ABUTMENTS AND INSTALL PREFABRICATED BRIDGE PER DETAILS ON SHEET 6 OF 8. CONTRACTOR TO COORDINATE ACCESS WITH ENGINEER AND AMAFCA.
 - STA 11+45 (9' LT) - INSTALL W2-4 "T" INTERSECTION SIGN WITH D1-NC BELOW, ON NEW POST.
 - STA 10+65 TO 10+73 (2.5' LT) - APPLY REFLECTIVE "STOP AHEAD" PAVEMENT MARKING IN CENTER OF WEST BOUND TRAVEL PATH PER PAVEMENT LETTERING DETAIL, SHEET 5.
 - STA. 10+00 TO 25+35 - APPLY 4" YELLOW REFLECTIVE STRIPE PER "REFLECTORIZED PAINTED MARKING" TABLE ON SHEET 3.
 - STA. 11+43 (LT. AND RT.) - BUILD CONCRETE RETAINING WALL AT EDGE OF CHANNEL WITH 2-BAR SAFETY RAILING PER SECTION B AND RAILING DETAILS, SHEET 5, AND REINFORCED CONCRETE RETAINING WALL ELEVATION, SHEET 6. NEW 2-BAR RAILING TO TIE IN TO EXISTING RAILING AT NEAREST POST (EXACT LENGTH TO BE DETERMINED). RAILING POSTS TO BE SPACED EQUALLY, BUT NO MORE THAN 10' ON CENTER, MAXIMUM.
 - STA. 12+16 (11' LT) TO 18+89 (6.5' LT) - BUILD 2-BAR SAFETY RAILING ALONG TOP OF CHANNEL PER DETAILS SHEET 5.



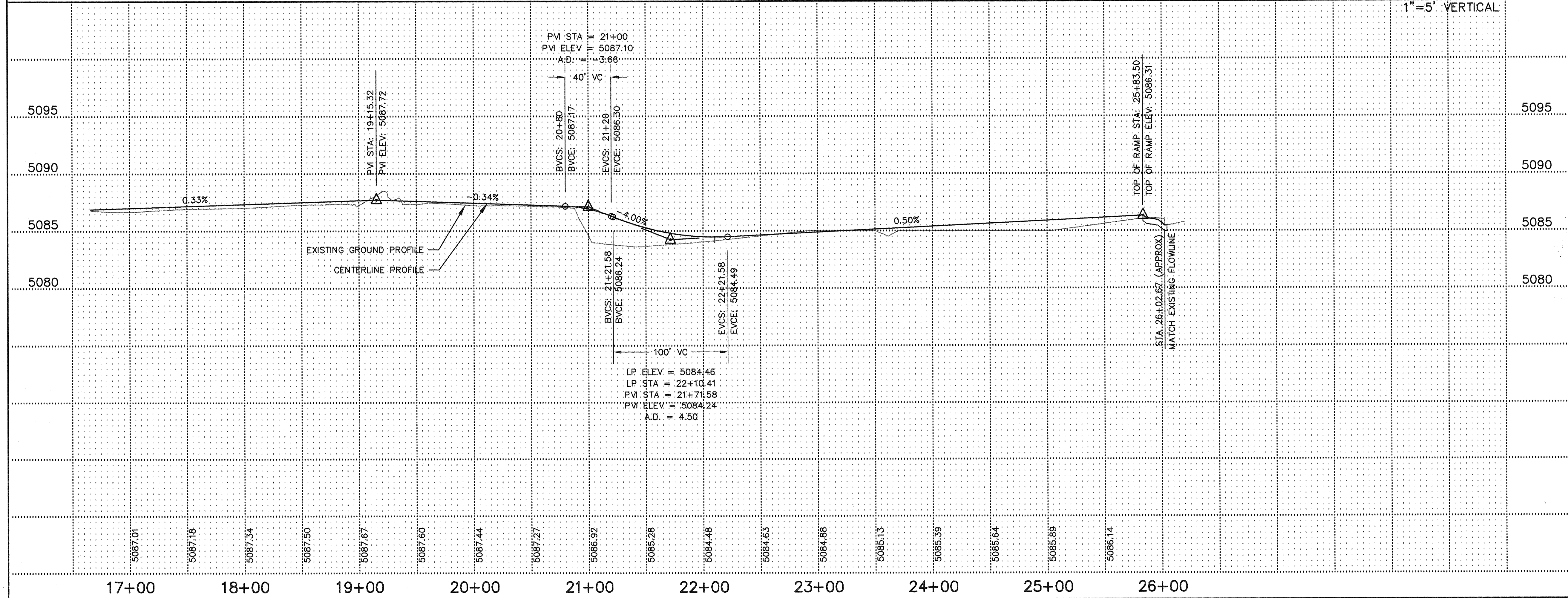
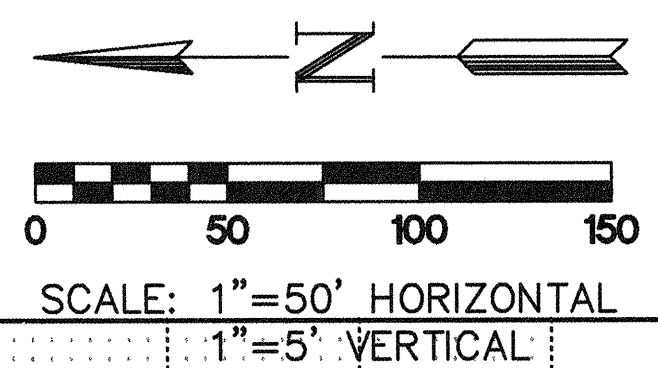
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NORTH PINO CURVE TABLE				
CURVE	RADIUS	ANGLE	LENGTH	TANGENT
C3	750.00	36°03'29"	472.00	244.11
C4	200.00	43°53'34"	153.22	80.59



TRAFFIC SIGNS: SEE SIGN DETAILS, SHEET 3



- NOTES:
- STA. 19+24 (6.5' LT) TO 21+00 (6.5' LT) - BUILD 2-BAR SAFETY RAILING ALONG EDGE OF BASIN PER DETAILS SHEET 5.
 - STA. 25+26 TO 25+34 (2.5' RT.) - APPLY REFLECTIVE "STOP AHEAD" PAVEMENT MARKING IN CENTER OF SOUTH BOUND TRAVEL PATH PER PAVEMENT LETTERING DETAIL, SHEET 5
 - STA. 25+33.5 TO 25+83.5 - APPLY 4" SOLID YELLOW REFLECTIVE STRIPE ALONG TRAIL CENTER LINE TO TOP OF CONCRETE RAMP.
 - STA. 25+82 (8' RT) - INSTALL R1-1 "STOP" SIGN BACK TO BACK WITH R5-3 "NO MOTOR VEHICLES" SIGN ON NEW POST, PER MUTCD (LATEST EDITION), SECTION 9.
 - STA. 25+83.5 TO 25+96.02 - BUILD NEW CONCRETE CURB RAMPS PER DETAILS, SHEET 5.
 - STA 25+96 - INSTALL W12-1 (ARROWS) SIGN MINIMUM 3' BEHIND CURB, FACING NORTH TOWARDS TRAIL TRAFFIC BETWEEN NEW CURB RAMPS.

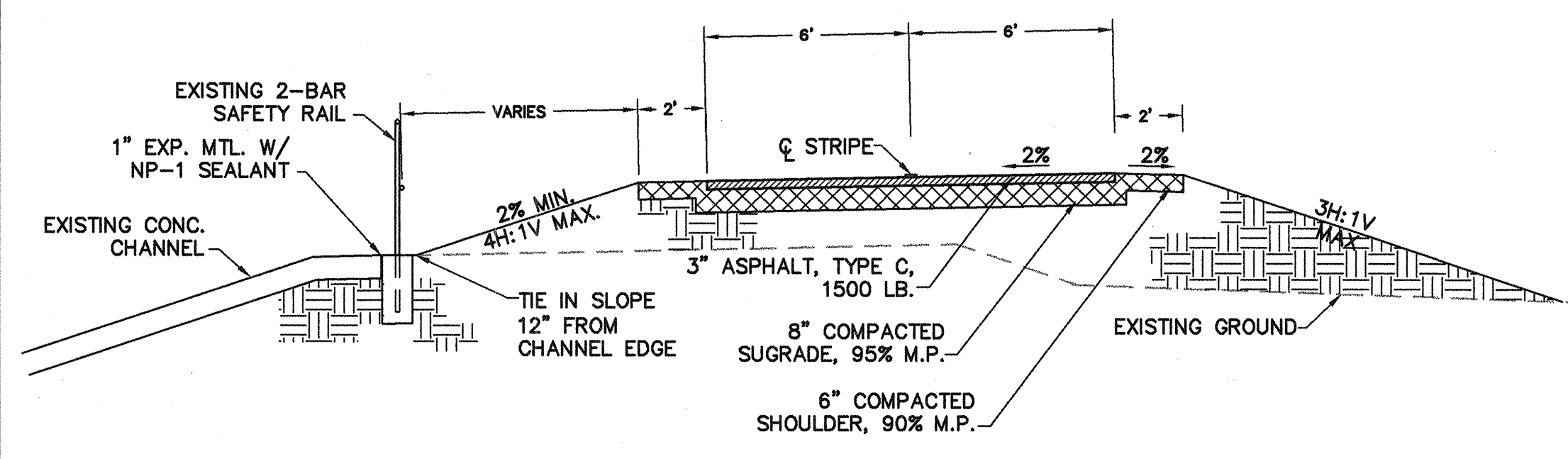
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEERS SEAL	
CONTRACTOR	KLHAI CO.	STATION NAME	REEVES 2	FIELD NOTES	NO.		
STARTED BY	Robert Kahl	LOCATED 6.5 MILES NORTH OF DOWNTOWN ALBUQUERQUE;		DATE	BY		
INSPECTED BY	Robert Kahl	A STANDARD BRASS CAP SET IN A CONCRETE APRON					
FIELD VERIFICATION BY	Robert Kahl	AT THE NORTHEAST CORNER OF THE CONFLUENCE OF THE					
DATE	9/1/04	NORTH PINO ARROYO AND THE NORTH DIVERSION CHANNEL.					
DATE	9/1/04						
DATE	9/1/04						
DATE	9/1/04						
MICRO-FILM INFORMATION		NGVD 29				REVISIONS	
RECORDED BY		NORTHING: 1,516,507.279					
NO.		EASTING: 394,062.557					
		ELEVATION: 5074.0					

FOR INFORMATION ONLY

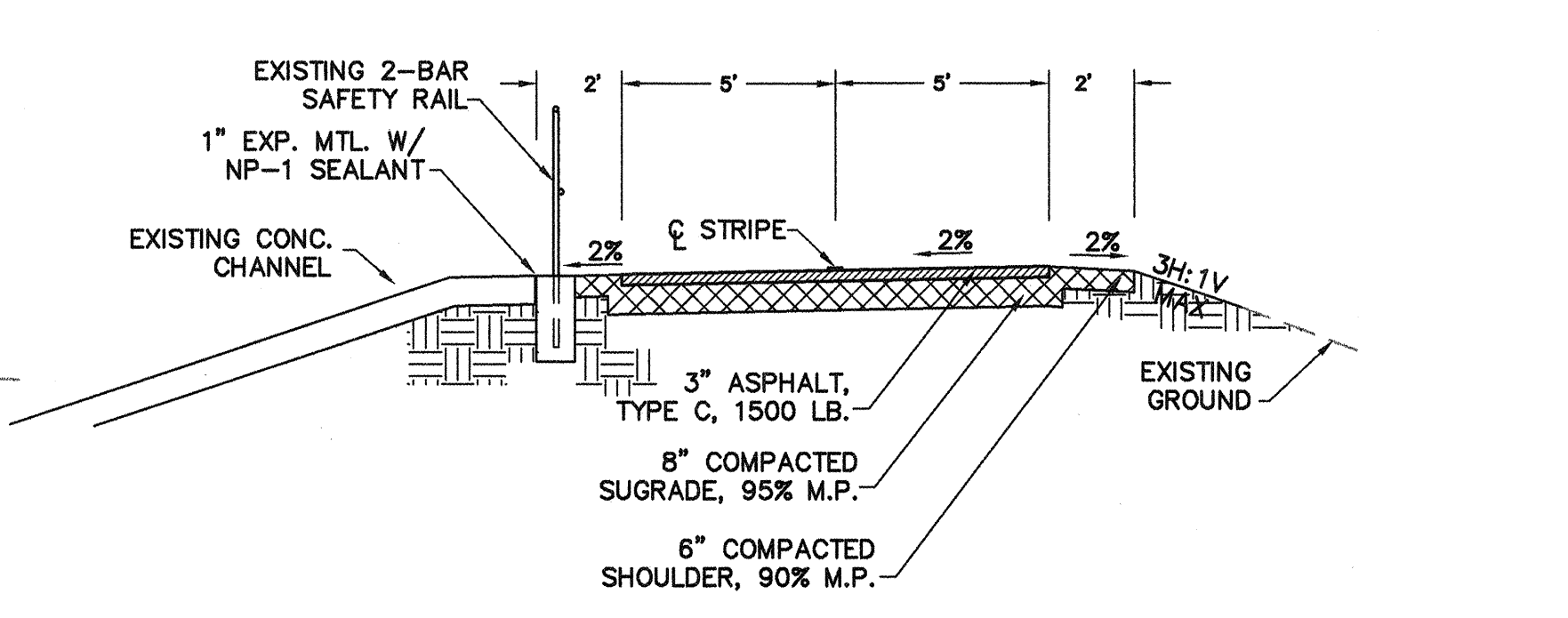
RECORD DRAWINGS
Revisions by: RMO Date: 1/17/06
THESE RECORDS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OR COMPONENT, NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS.

Resource Technology, Inc.
Civil Engineering 5501 Jefferson Blvd., NE, Suite 200
Environmental Sciences Albuquerque, New Mexico 87109
Water Resources E-mail: rti@rti.net
Landscape Architecture Telephone: (505) 243-7300
Planning Facsimile: (505) 243-7400

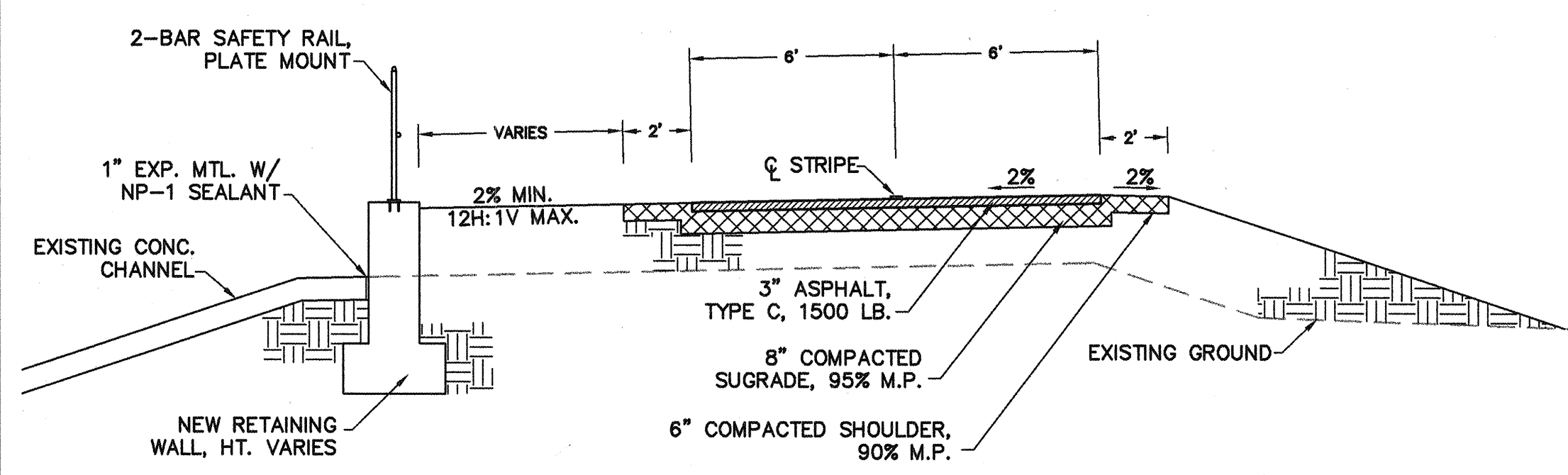
CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT TRANSPORTATION DIVISION			
TITLE: JOURNAL CENTER TRAILS NORTH PINO ARROYO TRAIL PLAN AND PROFILE			
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
PROJECT NO. 630194	MAP NO. D-17-Z	SHEET 5	OF 9



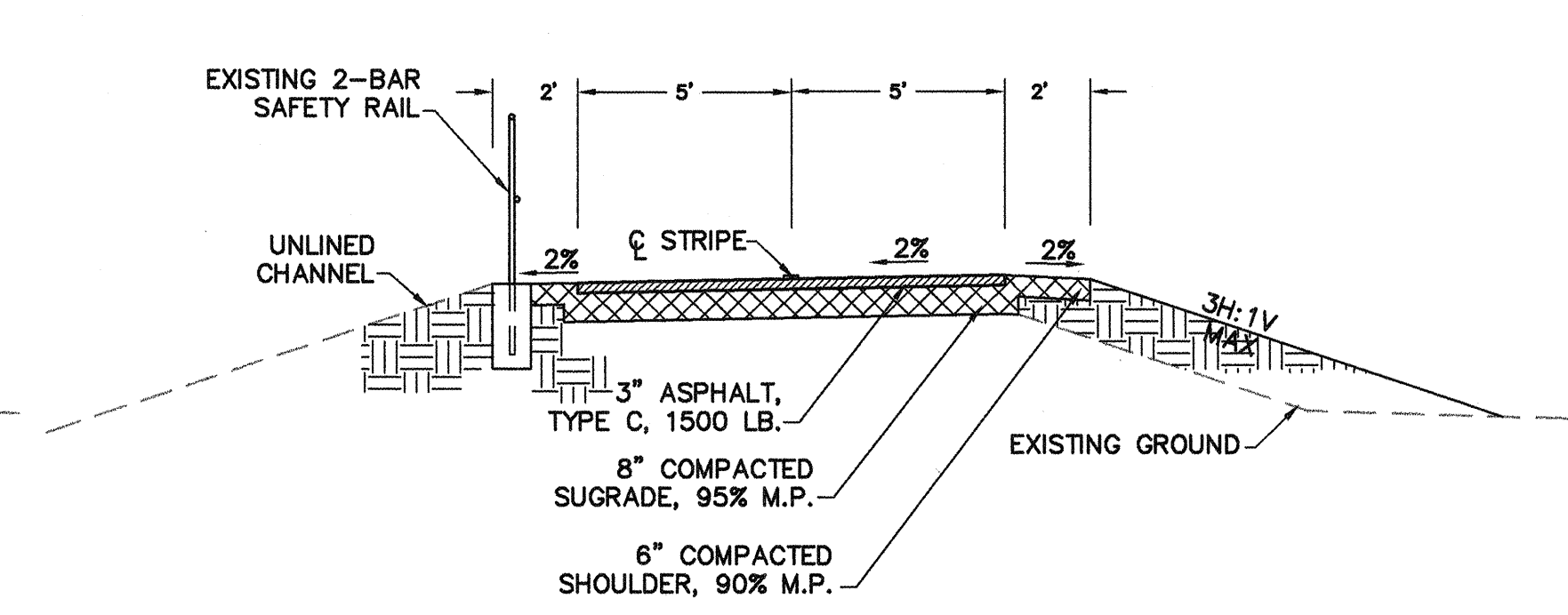
TYPICAL SECTION "A"
STA. 30+00 TO 30+66
STA. 31+39 TO 32+05
NOT TO SCALE



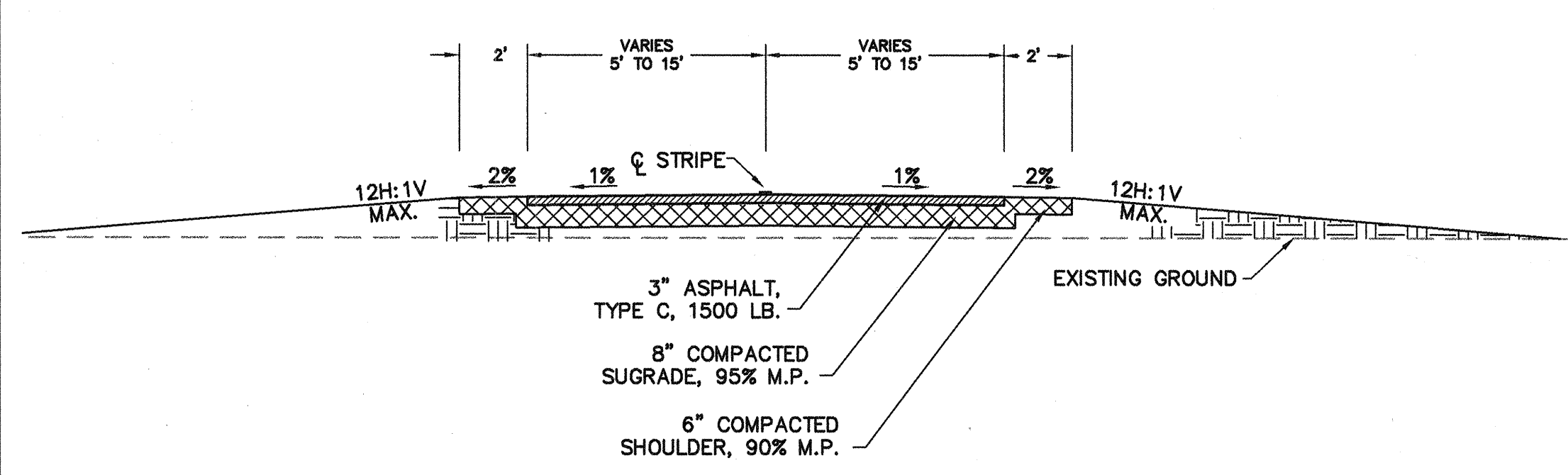
TYPICAL SECTION "E"
STA. 12+25 TO 16+24
NOT TO SCALE



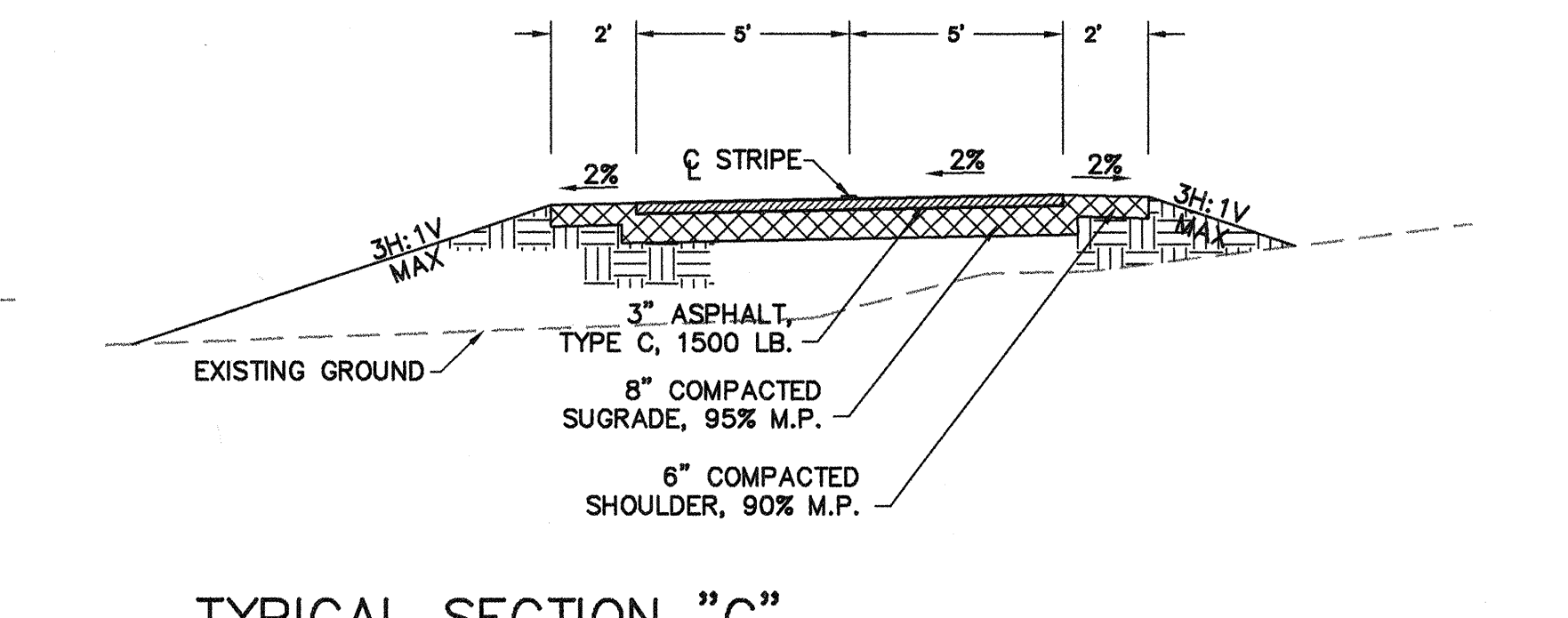
TYPICAL SECTION "B"
STA. 30+66 TO 31+39
NOT TO SCALE



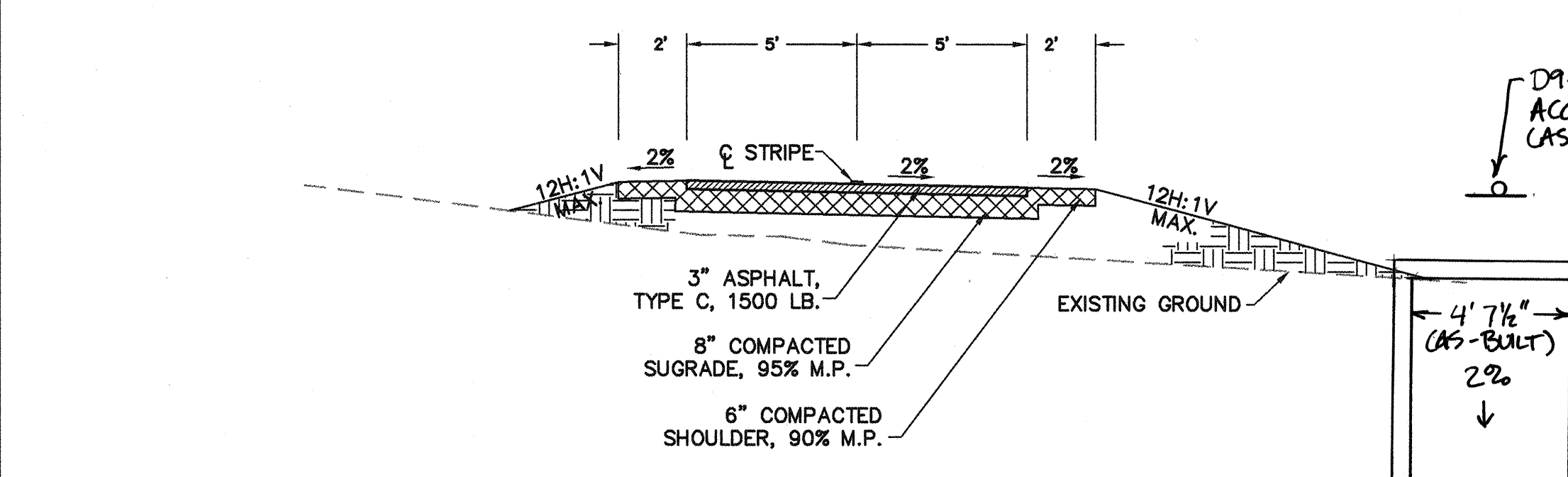
TYPICAL SECTION "F"
STA. 16+24 TO 20+80
NOT TO SCALE



TYPICAL SECTION "C"
STA. 10+06 TO 10+15
NOT TO SCALE

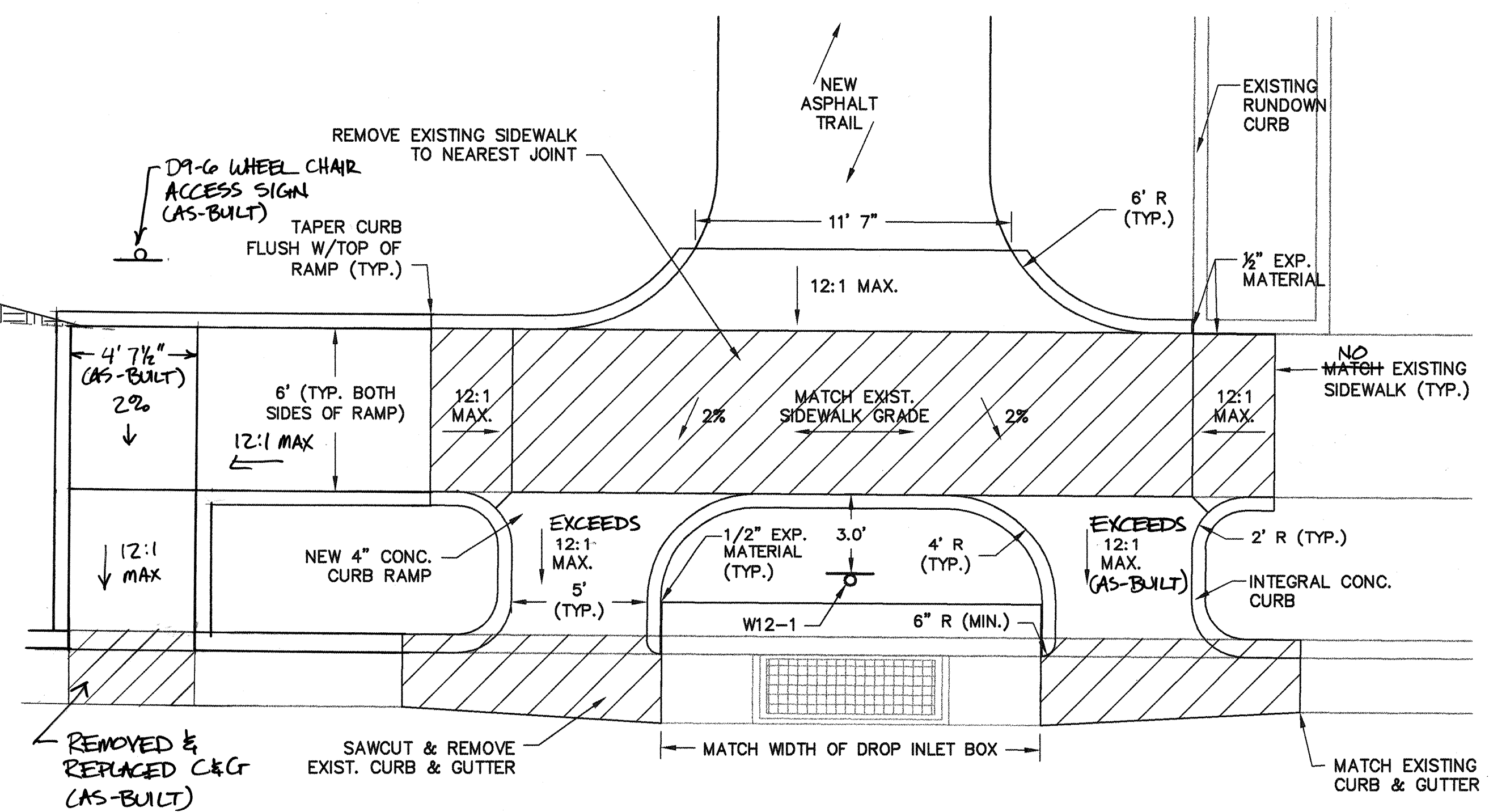


TYPICAL SECTION "G"
STA. 20+80 TO 25+83
NOT TO SCALE

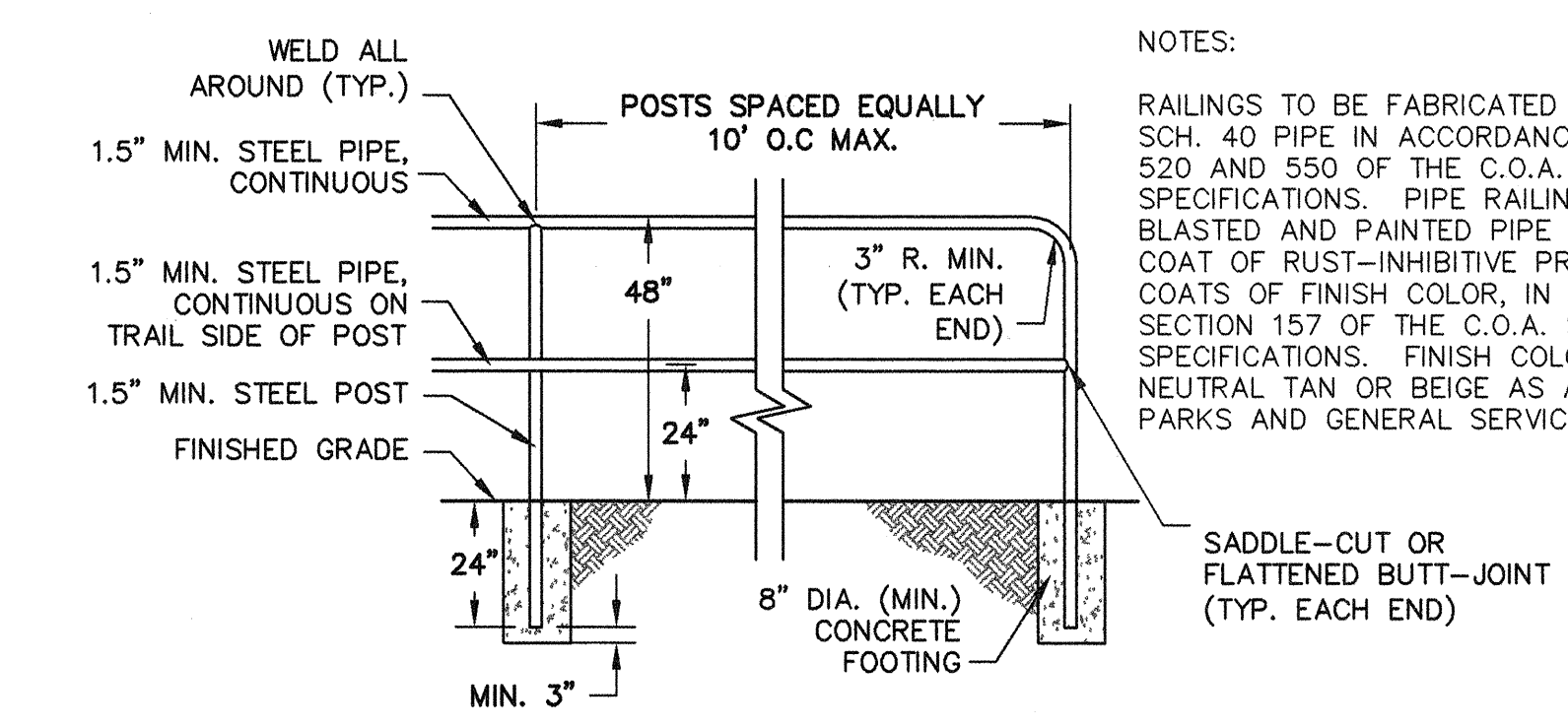


TYPICAL SECTION "D"
STA. 11+41 TO 12+25
NOT TO SCALE

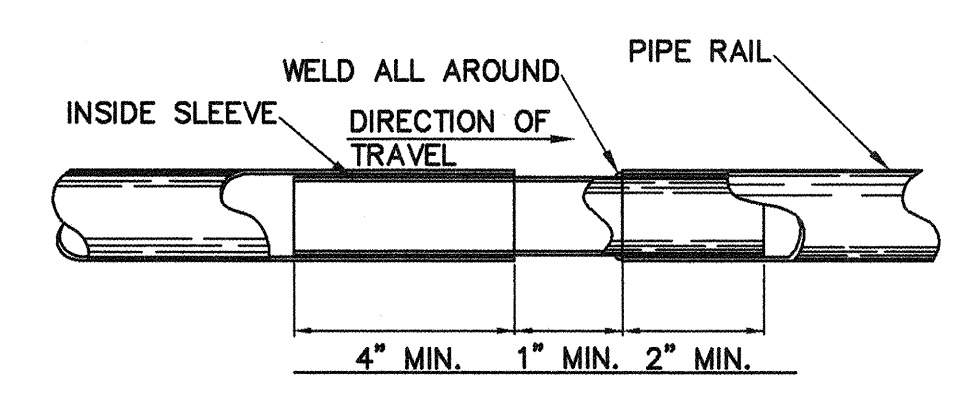
SEE EARTHWORK NOTES
ON SHEET 9 FOR
FILL REQUIREMENTS



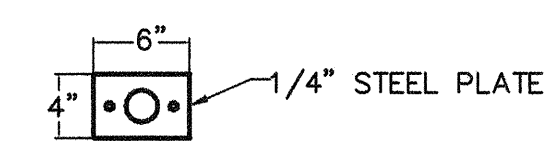
SPLIT CURB RAMP DETAIL
SCALE: 1" = 4'



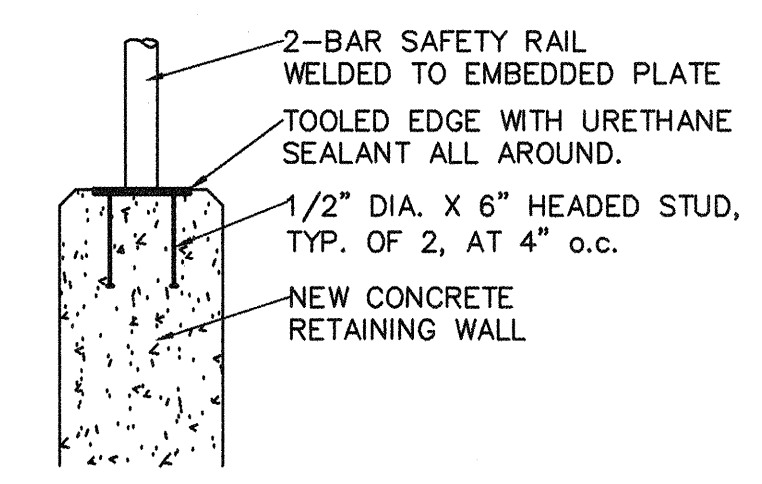
2-BAR RAILING
NOT TO SCALE



RAILING SLIP JOINT DETAIL
NOT TO SCALE



PLAN VIEW OF STEEL PLATE
NOT TO SCALE



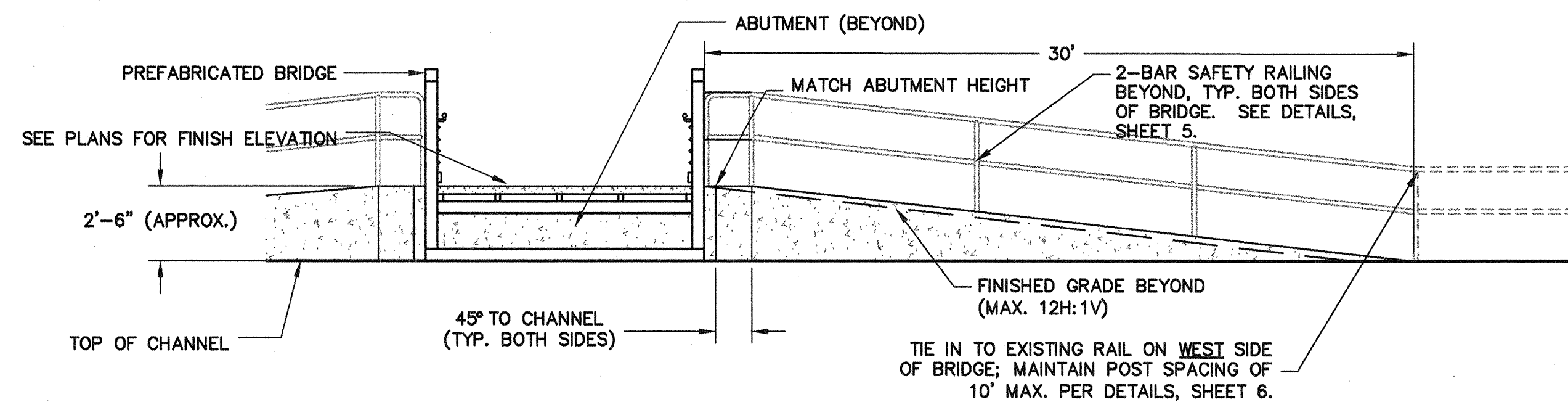
EMBEDDED STEEL PLATE DETAIL
ELEVATION

FOR INFORMATION ONLY

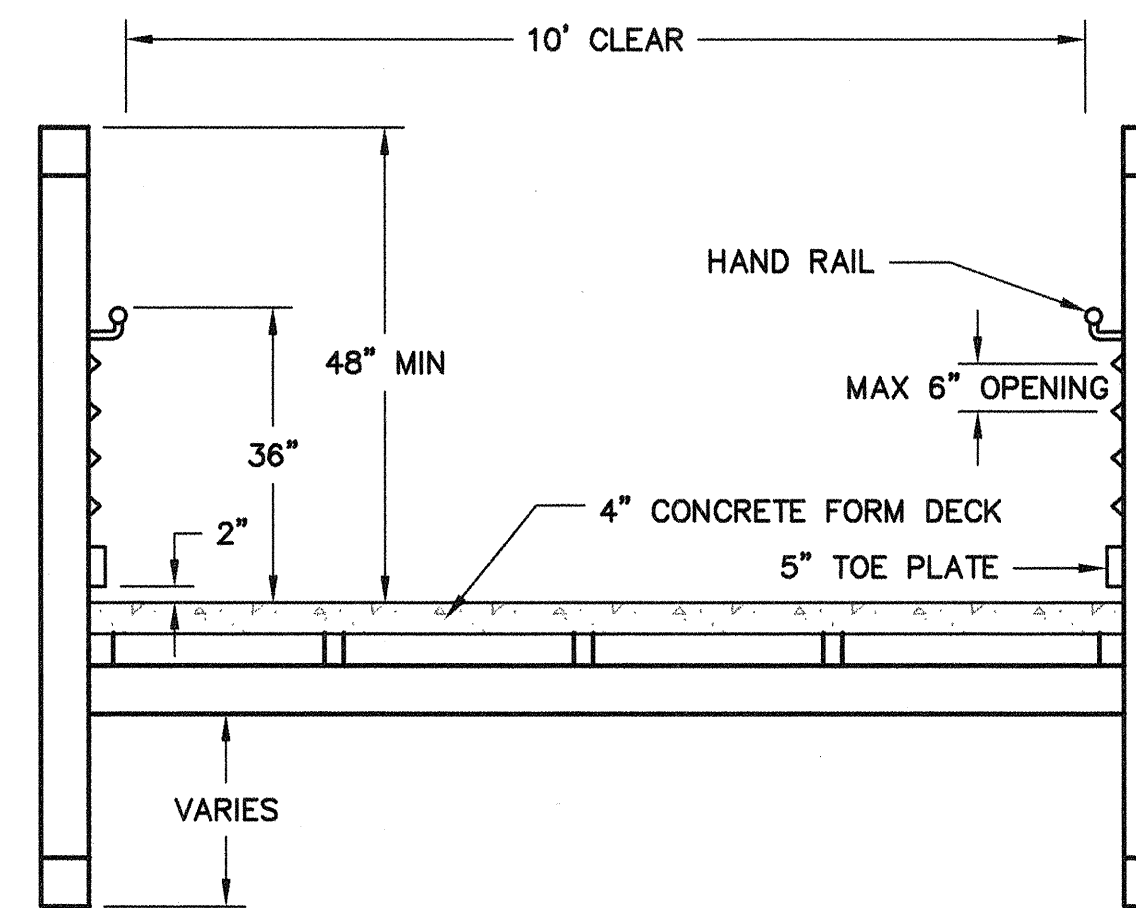
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CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT TRANSPORTATION DIVISION	
TITLE: JOURNAL CENTER TRAILS NORTH PINO ARROYO TRAIL TYPICAL SECTIONS AND DETAILS	
DESIGN REVIEW COMMITTEE SEP 21 2004	CITY ENGINEER SEP 21 2004
PROJECT NO. 630194	MAP NO. D-17-Z
SHEET 6	OF 9

RECORD DRAWINGS
THESE RECORDS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OR COMPONENT, NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS.



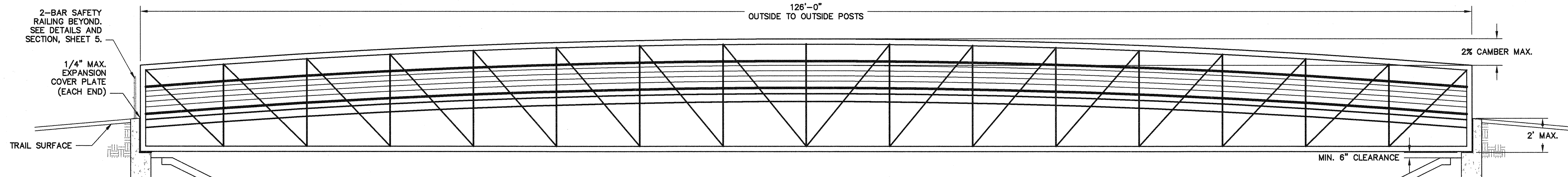
REINFORCED CONCRETE RETAINING WALL ELEVATION
SCALE: 1" = 5'



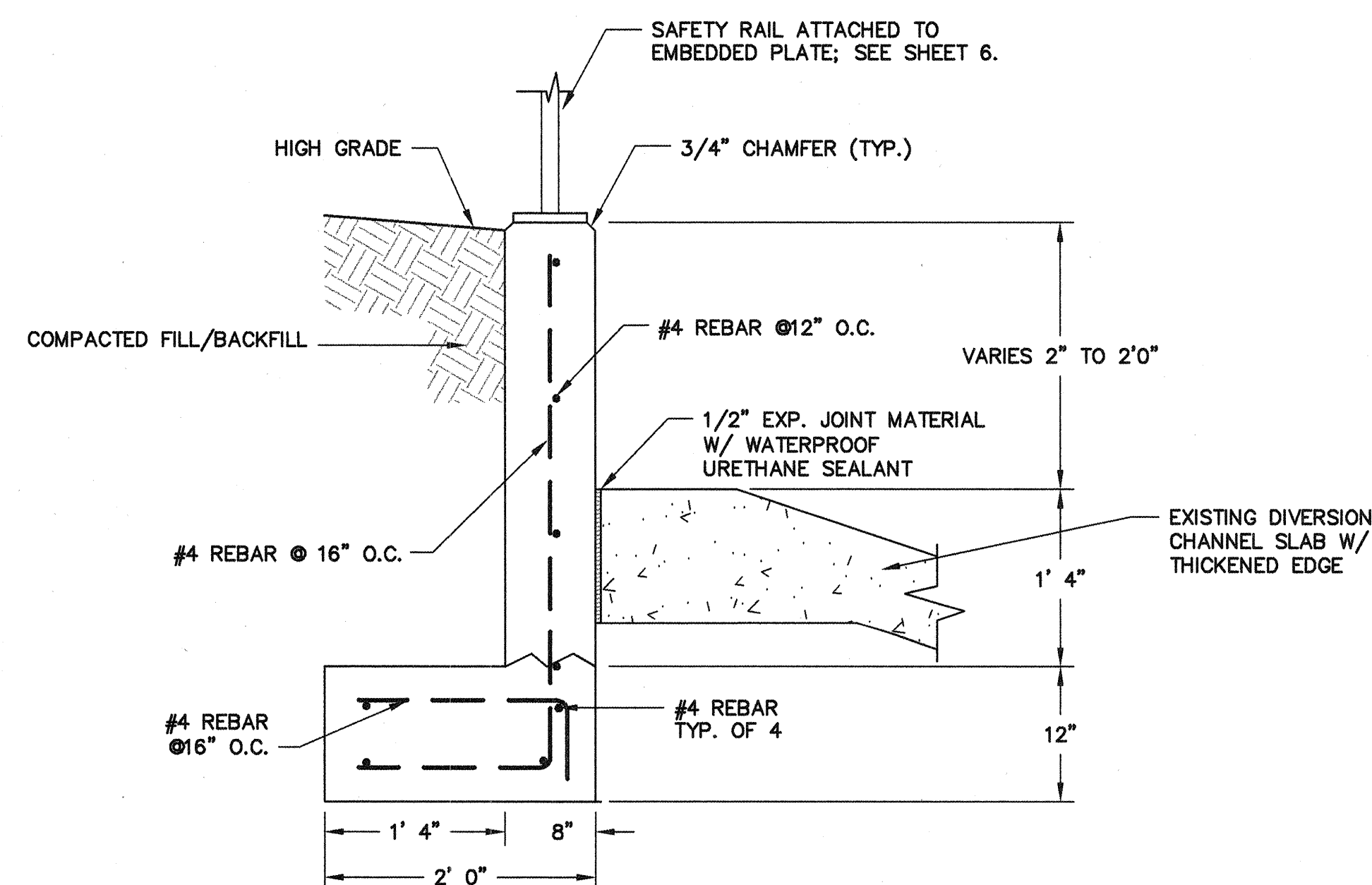
PREFABRICATED BRIDGE SECTION
1" = 2'

STRUCTURAL NOTES – EARTHWORK

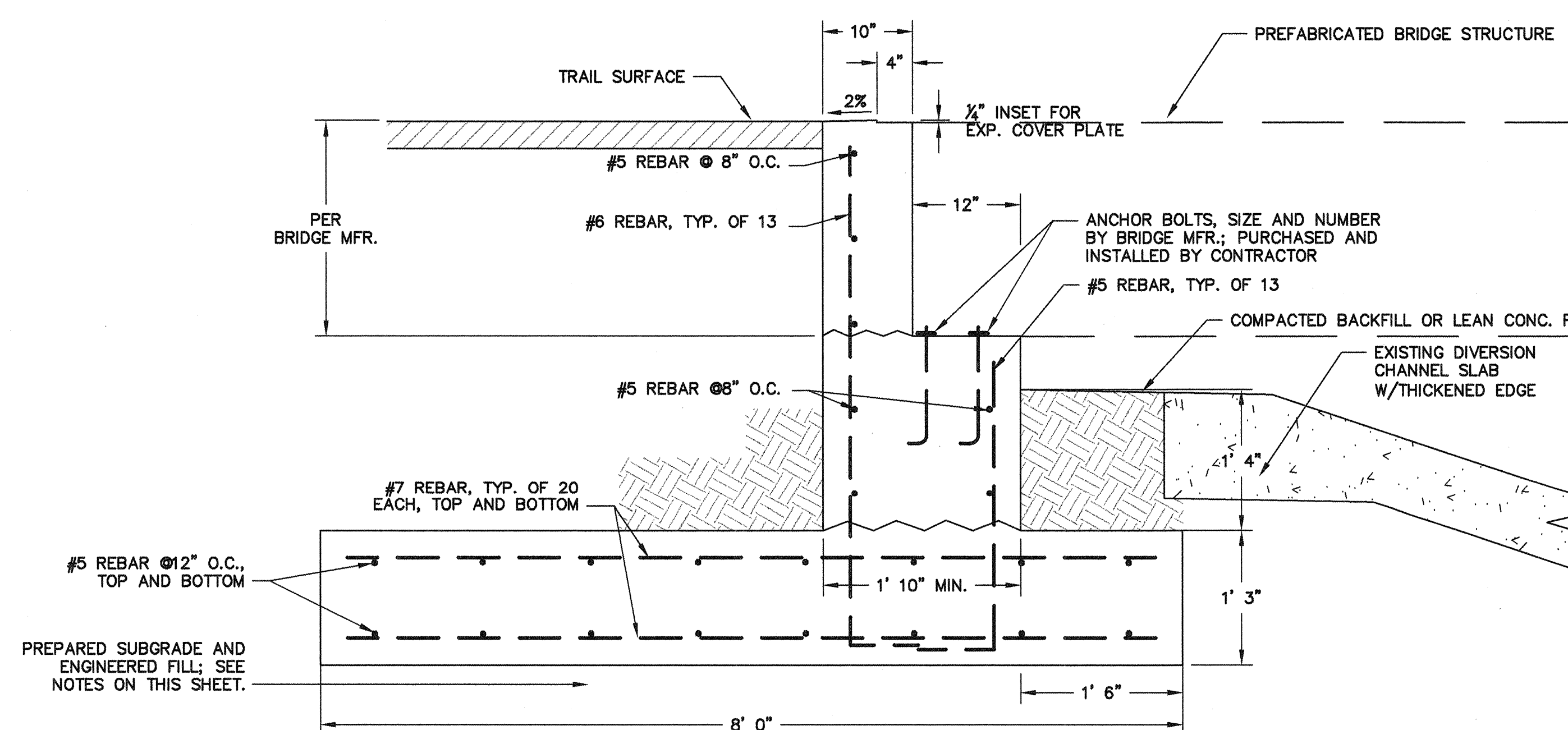
- SEE SPECIFICATIONS SECTIONS 301 AND 501 FOR ADDITIONAL INFORMATION.
- AFTER CLEARING AND GRUBBING, REMOVE EXISTING MATERIAL TO 2' 0" BELOW BOTTOM OF FOOTING AND 1' 0" BEYOND EDGES OF FOOTING. MINIMIZE UNDERCUTTING OF EXISTING CONSTRUCTION. SLOPE SIDES OF EXCAVATIONS AS REQUIRED FOR SLOPE STABILITY.
- PREPARATION OF SUBGRADE. AFTER EXCAVATIONS HAVE BEEN COMPLETED AND/OR SURFACE HAS BEEN CLEANED AND GRUBBED, THE SUBGRADE SHALL BE SCARIFIED, DISCED OR OTHERWISE LOOSENEED TO A MINIMUM DEPTH OF 12 INCHES, MOISTENED OR DRIED AS NECESSARY (TO WITHIN + OR - 2 PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT) AND COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DENSITY.
- FILL AND BACKFILL BENEATH AND ADJACENT TO THE FOOTING, ABUTMENT AND WALL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED 8 INCHES IN THICKNESS BEFORE COMPACTION AND SHALL BE COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DENSITY. ALL COMPACTION SHALL BE PERFORMED WHEN THE MATERIAL TO BE COMPACTED IS AT ITS OPTIMUM MOISTURE CONTENT (+ OR - 2 PERCENTAGE POINTS).



PREFABRICATED BRIDGE CONFIGURATION
SCALE: 1" = 5'

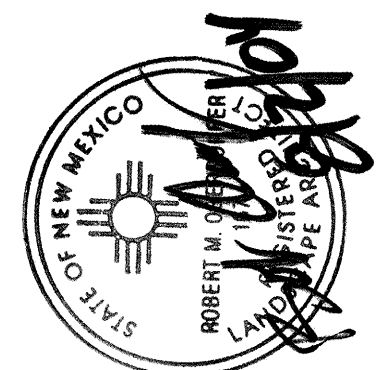


WING CONCRETE RETAINING WALL
1" = 1'



BRIDGE ABUTMENT SECTION
1" = 1'

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	STATION NAME	DATE	NO.	BY	NO.	BY
FLM Co.	2/05	LOCATED 6.5 MILES NORTH OF DOWNTOWN ALBUQUERQUE;	2/05				
SUBMITTAL	DATE	A STANDARD BRASS CAP SET IN A CONCRETE APRON	9/05				
ACCEPTANCE BY	DATE	AT THE NORTHEAST CORNER OF THE CONFLUENCE OF THE	1/06				
VERIFICATION BY	DATE	NORTH PINO ARROYO AND THE NORTH DIVERSION CHANNEL.	1/06				
DRAWINGS	DATE	NGVD 29	1/06				
CORRECTED BY	DATE	NORTHING: 1,516,507.279	1/06				
RECORDED BY	DATE	EASTING: 394,062.557	1/06				
NO.		ELEVATION: 5074.0					



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FOR THE CITY OF ALBUQUERQUE

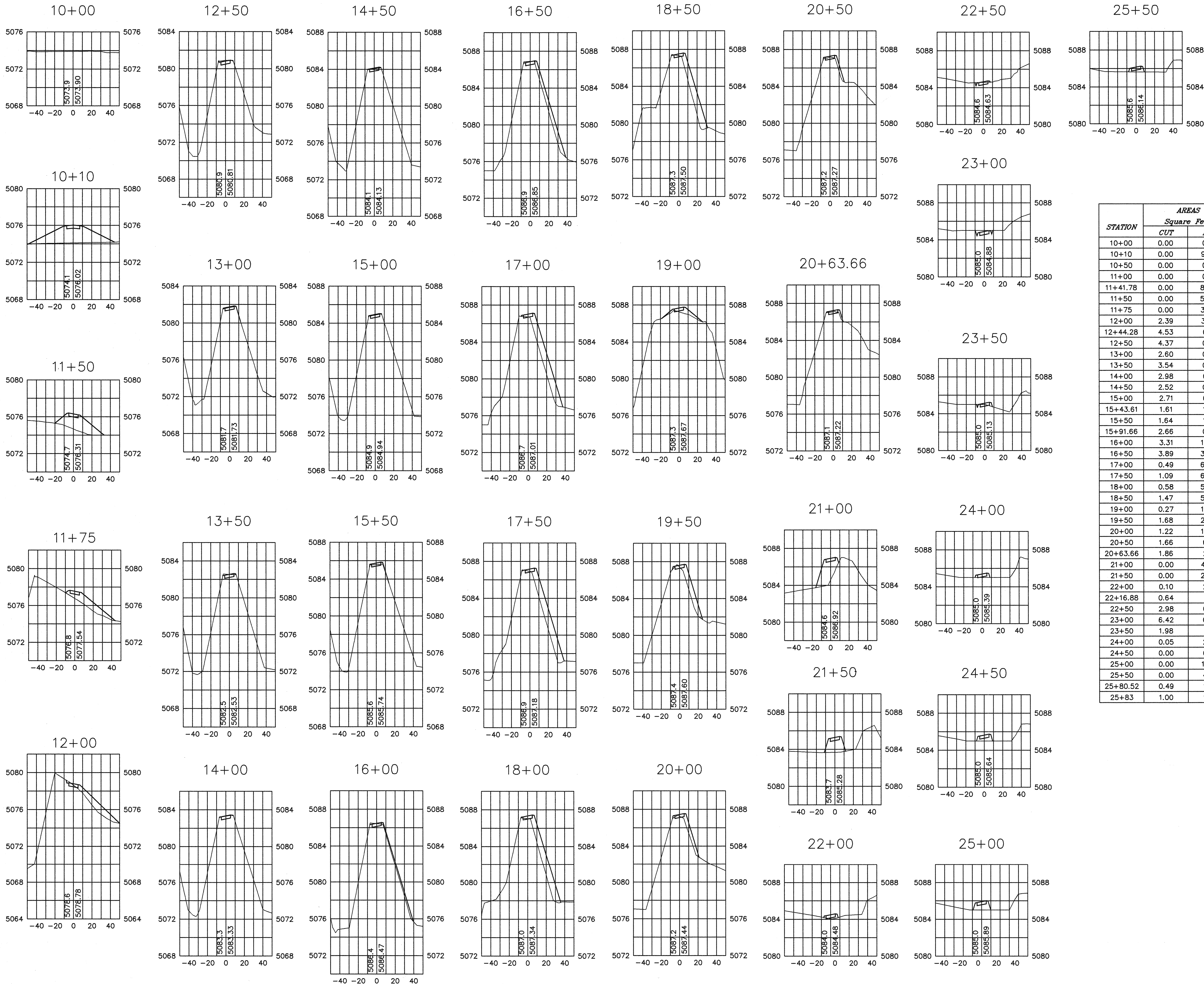
Resource Technology, Inc.
Civil Engineering 5501 Jefferson Blvd. NE, Suite 200
Environmental Sciences Albuquerque, New Mexico 87109
Water Resources E-mail: rti@rti.net
Landscape Architecture Telephone: (505) 243-7300
Planning Facsimile: (505) 243-7400

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
TRANSPORTATION DIVISION
TITLE: **JOURNAL CENTER TRAILS
NORTH PINO ARROYO TRAIL
BRIDGE DETAILS**

Design Review Committee City Engineer Approved
SEP 21 2004 SEP 21 2004
DESIGN REVIEW COMMITTEE CITY ENGINEER

PROJECT NO. 630194 MAP NO. D-17-Z SHEET 7 OF 9

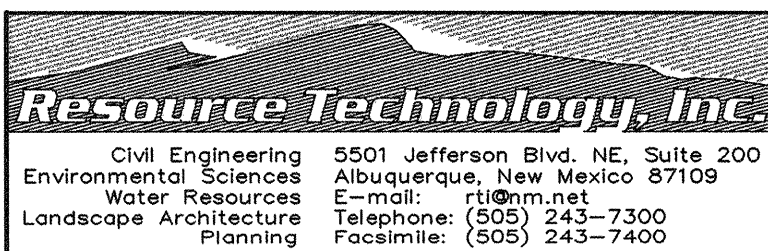
NM PROJECT NO. TPE-7701 (38)



NORTH PINO TRAIL ALIGNMENT SECTIONS
SCALE: 1"=50' HORIZONTAL; 1"=5' VERTICAL

STATION	AREAS Square Feet		VOLUMES Cubic Yards		CUMULATIVE VOLUMES Cubic Yards	
	CUT	FILL	CUT	FILL	CUT	FILL
10+00	0.00	0.00	0.00	18.43	0.00	18.43
10+10	0.00	99.51	0.00	73.71	0.00	92.14
10+50	0.00	0.00	0.00	0.00	0.00	92.14
11+00	0.00	0.00	0.00	0.00	0.00	92.14
11+41.78	0.00	83.89	0.00	64.91	0.00	157.05
11+50	0.00	54.62	0.00	20.59	0.00	177.65
11+75	0.00	34.10	0.00	37.33	0.00	214.98
12+00	2.39	32.21	1.12	25.37	1.12	240.35
12+44.28	4.53	0.12	5.79	23.01	6.91	263.36
12+50	4.37	0.00	0.94	0.01	7.85	263.38
13+00	2.60	0.43	6.45	0.40	14.30	263.78
13+50	3.54	0.25	5.68	0.63	19.98	264.41
14+00	2.98	0.10	6.03	0.33	26.01	264.74
14+50	2.52	0.25	5.10	0.33	31.11	265.07
15+00	2.71	0.18	4.84	0.40	35.95	265.47
15+43.61	1.61	1.28	3.49	1.18	39.44	266.65
15+50	1.64	1.25	0.38	0.30	39.82	266.95
15+91.66	2.66	0.68	3.32	1.49	43.14	268.44
16+00	3.31	12.54	0.92	2.00	44.06	270.44
16+50	3.89	35.22	6.67	42.86	50.73	313.30
17+00	0.49	66.32	4.06	91.44	54.80	404.74
17+50	1.09	66.47	1.47	119.76	56.26	524.50
18+00	0.58	59.85	1.55	113.93	57.82	638.43
18+50	1.47	50.53	1.91	99.72	59.73	738.15
19+00	0.27	10.44	1.62	55.53	61.35	793.68
19+50	1.68	29.29	1.82	36.29	63.16	829.98
20+00	1.22	15.64	2.70	40.93	65.86	870.91
20+50	1.66	6.56	2.68	20.27	68.54	891.19
20+63.66	1.86	2.14	0.89	2.18	69.43	893.36
21+00	0.00	41.23	1.25	29.00	70.68	922.36
21+50	0.00	26.36	0.00	63.14	70.68	985.51
22+00	0.10	2.49	0.09	26.53	70.77	1012.03
22+16.88	0.64	1.01	0.23	1.08	71.00	1013.11
22+50	2.98	0.29	2.22	0.80	73.22	1013.91
23+00	6.42	0.00	8.70	0.27	81.92	1014.18
23+50	1.98	1.11	7.77	1.03	89.69	1015.20
24+00	0.05	2.47	1.88	3.31	91.57	1018.52
24+50	0.00	6.66	0.04	8.45	91.61	1026.97
25+00	0.00	11.27	0.00	16.60	91.61	1043.57
25+50	0.00	4.68	0.00	14.77	91.61	1058.34
25+80.52	0.49	1.38	0.28	3.42	91.89	1061.77
25+83	1.00	1.23	0.06	0.15	91.95	1061.92
			0.00	0.00	91.95	1061.92

FOR INFORMATION ONLY

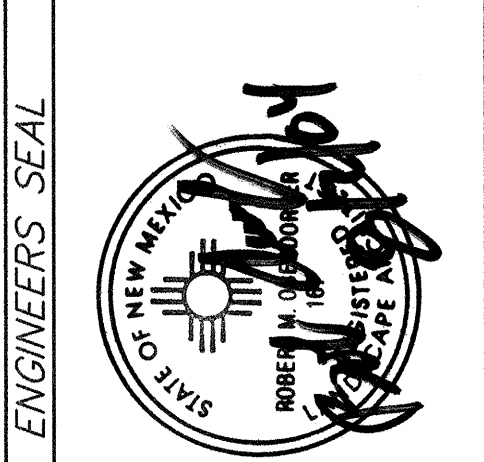


CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT TRANSPORTATION DIVISION	
TITLE: JOURNAL CENTER TRAILS NORTH PINO ARROYO TRAIL EARTHWORK SECTIONS	
Design Review Committee APPROVED SEP 21 2004 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED SEP 21 2004 CITY ENGINEER
PROJECT NO. 630194	MAP NO. D-17-Z
SHEET 8 OF 9	
NM PROJECT NO. TPE-7701 (38)	

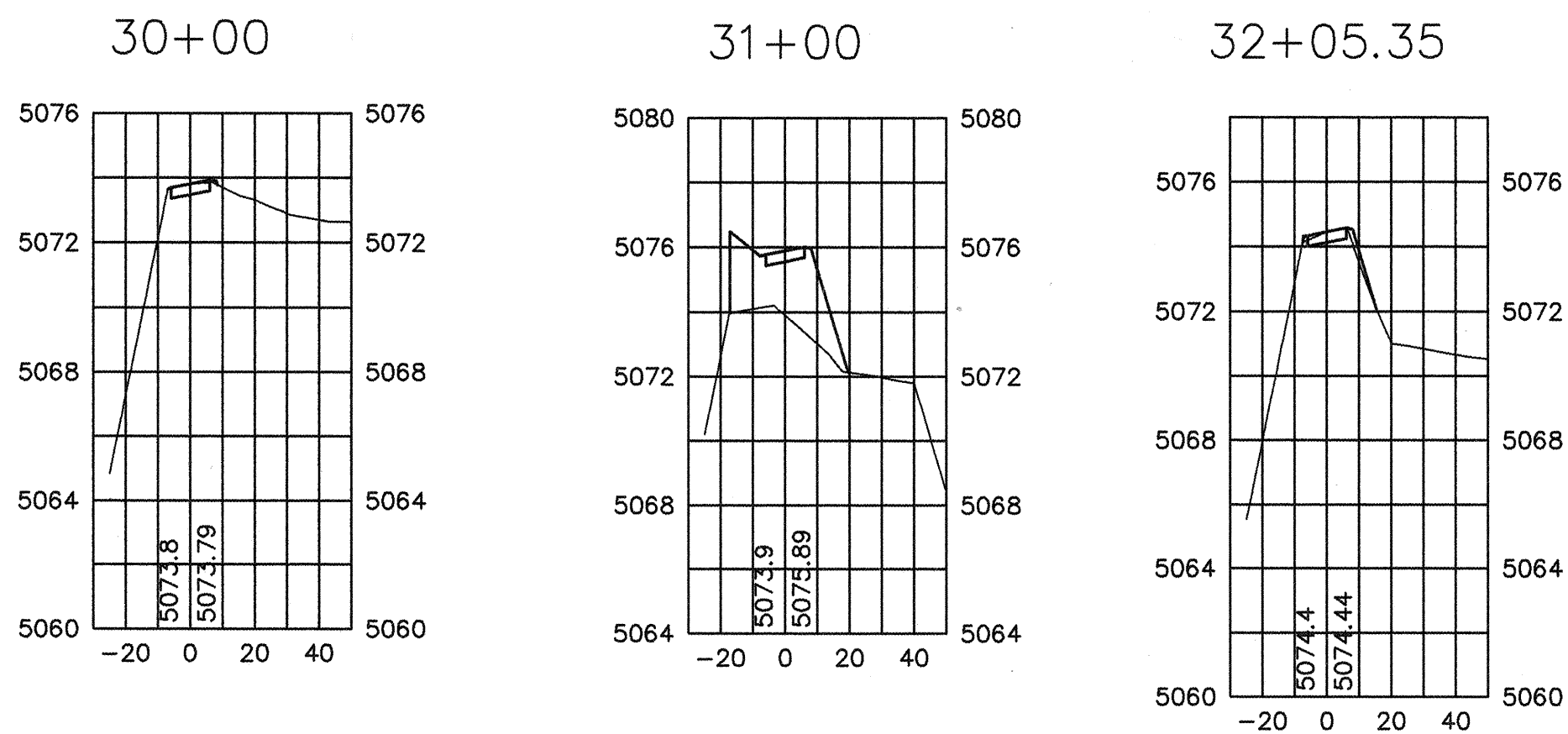
AS BUILT INFORMATION	
CONTRACTOR: Phelan Co.	WORKS BY: Jordan Gallegos
INSPECTOR: L. L. L. L.	DATE: 2/05
APPROVED BY: L. L. L. L.	DATE: 2/05
VERIFIED BY: L. L. L. L.	DATE: 2/05
DESIGNED BY: RMO	DATE: 1/04
DRAWN BY: RMO	DATE: 1/04
CHECKED BY: RMO	DATE: 1/04
MICRO-FILM INFORMATION	
RECORDED BY: RMO	DATE: 1/04
NO.:	NO.:

BENCH MARKS	
STATION NAME: REEVES 2	LOCATED 6.5 MILES NORTH OF DOWNTOWN ALBUQUERQUE;
A STANDARD BRASS CAP SET IN A CONCRETE APRON	
AT THE NORTHEAST CORNER OF THE CONFLUENCE OF THE	
NORTH PINO ARROYO AND THE NORTH DIVERSION CHANNEL.	
NGVD 29	NORTHING: 1,516,507.279
EASTING: 394,062.557	ELEVATION: 5074.0

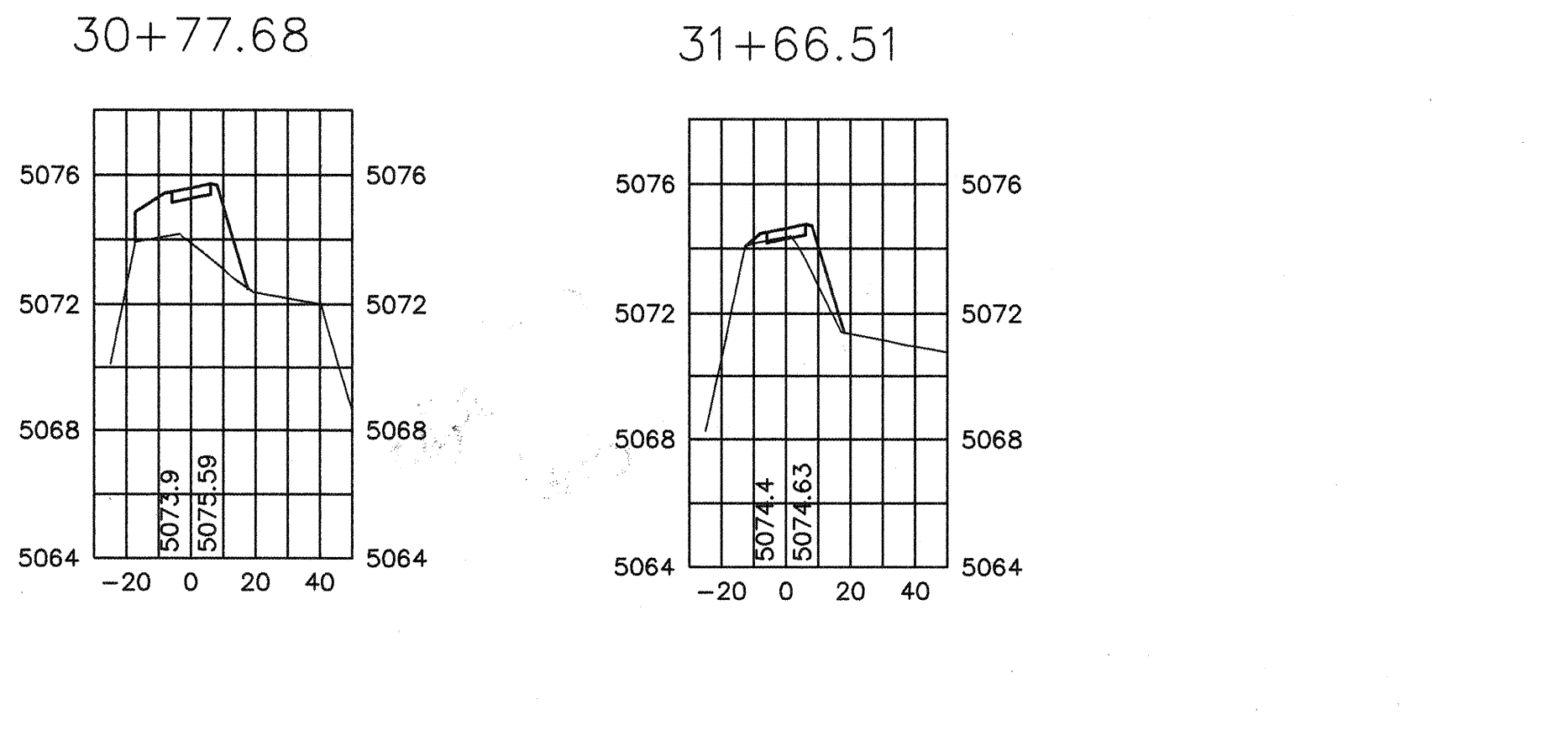
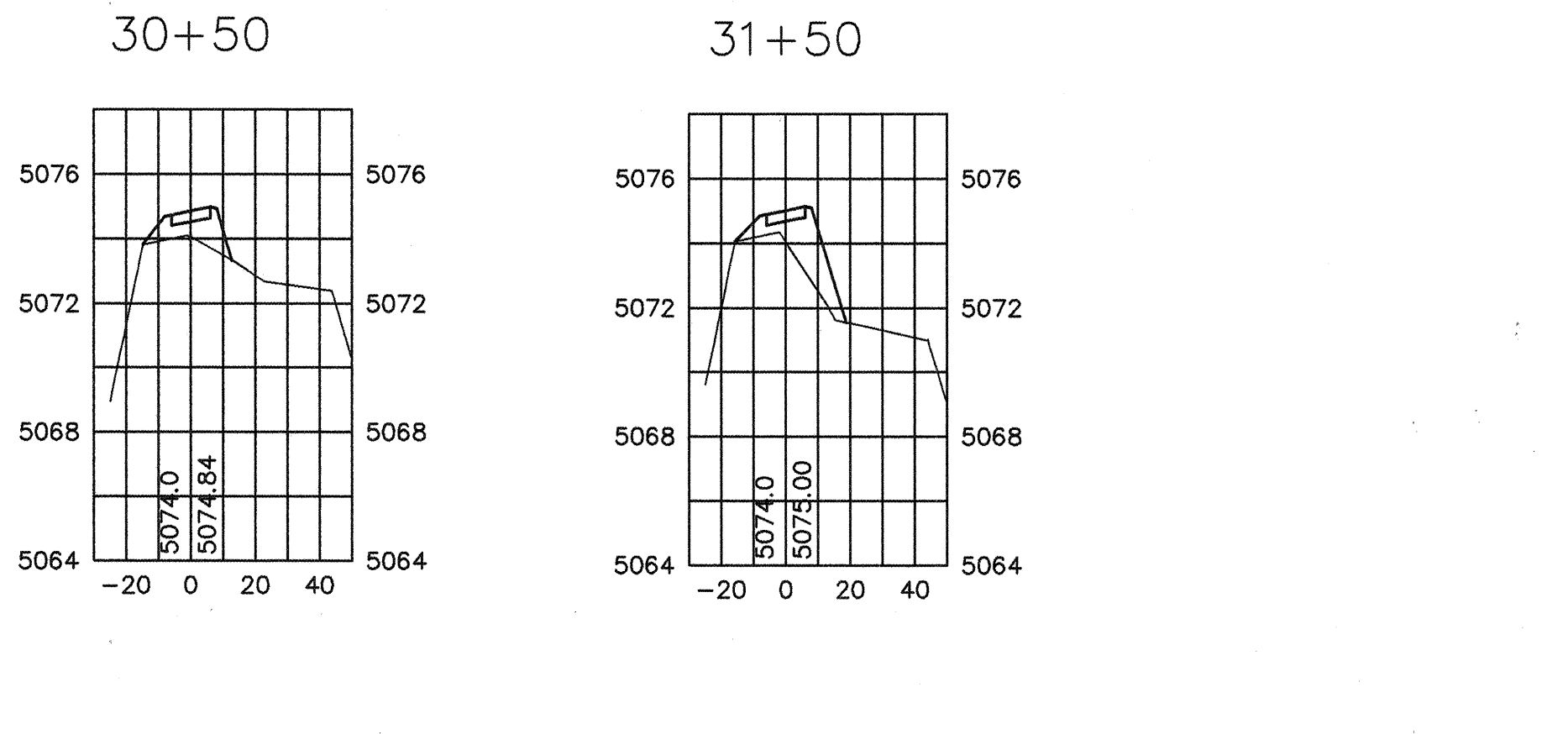
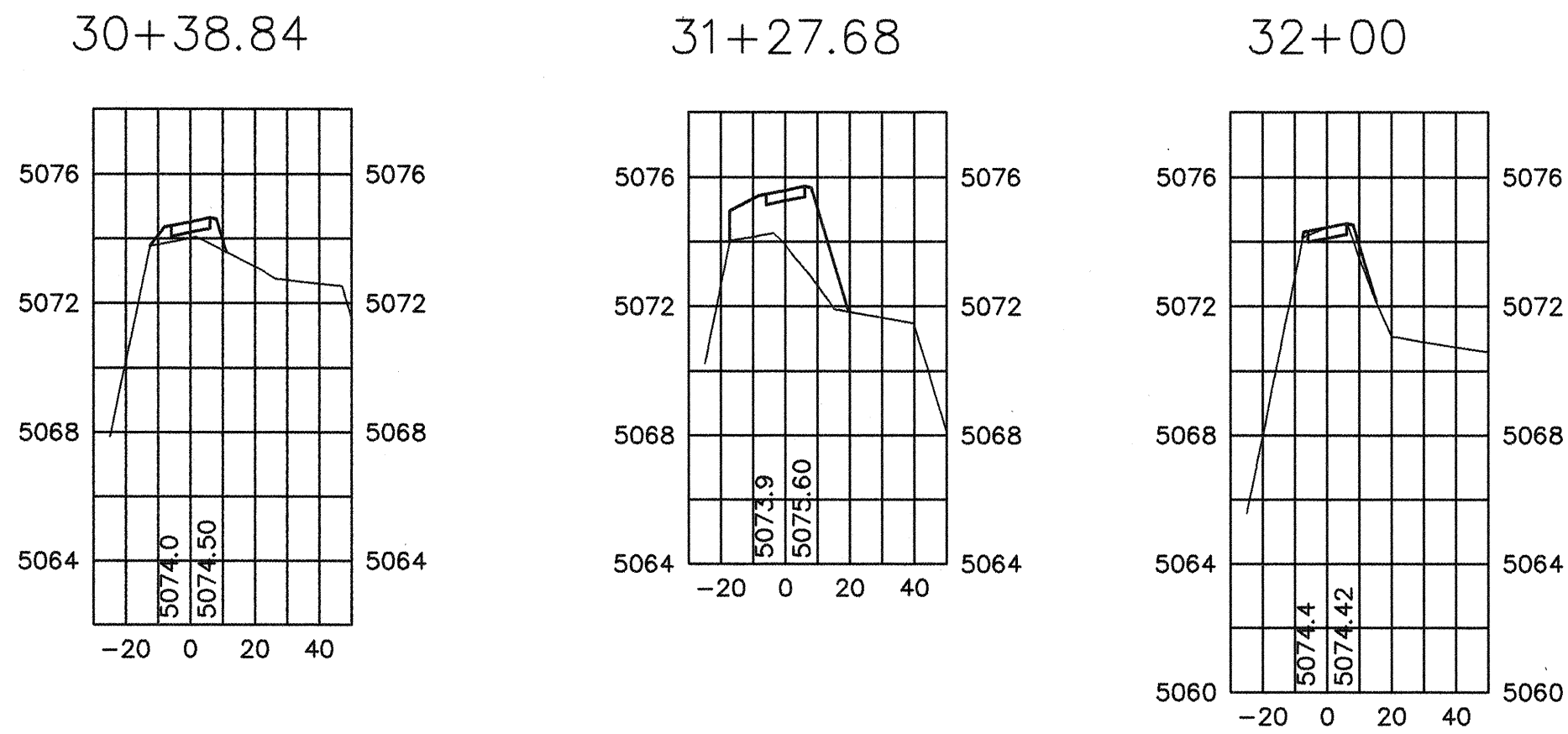
SURVEY INFORMATION	
FIELD NOTES	DATE: 2/05
BY: RMO	DATE: 2/05
NO.:	NO.:



REMARKS	
REVISIONS	
DESIGN	
NO. DATE	BY
DESIGNED BY: RMO	DATE: APRIL, 2004
DRAWN BY: PAE, RMO	DATE: APRIL, 2004
CHECKED BY: RMO	DATE: CHECK DATE



STATION	AREAS Square Feet		VOLUMES Cubic Yards		CUMULATIVE VOLUMES Cubic Yards	
	CUT	FILL	CUT	FILL	CUT	FILL
30+00	3.74	0.42	2.69	5.48	2.69	5.48
30+38.84	0.00	7.19	0.00	4.65	2.69	10.13
30+50	0.00	14.99	0.00	28.82	2.69	38.95
30+77.68	0.00	40.25	0.00	37.66	2.69	76.61
31+00	0.00	50.84	0.00	49.82	2.69	126.43
31+27.68	0.00	46.36	0.00	32.40	2.69	158.82
31+50	0.00	29.15	0.14	13.50	2.84	172.32
31+66.51	0.47	12.83	2.59	9.04	5.42	181.36
32+00	3.68	2.61	0.72	0.49	6.15	181.85
32+05.35	3.64	2.55	0.00	0.00	6.15	181.85



NORTH CHANNEL TRAIL RE-ALIGNMENT SECTIONS
SCALE: 1"=50' HORIZONTAL; 1"=5' VERTICAL

EARTHWORK NOTES

1. EARTH EXCAVATION
- A. GENERAL:
- EARTH EXCAVATION SHALL CONSIST OF THE EXCAVATION AND REMOVAL OF SUITABLE SOILS FOR USE AS EMBANKMENT, AS WELL AS THE SATISFACTORY DISPOSAL OF ALL VEGETATION, DEBRIS, AND DELETERIOUS MATERIAL ENCOUNTERED WITHIN THE AREA TO BE GRADED AND/OR IN A BORROW AREA.
- B. SURFACE MAINTENANCE:
- EXCAVATED AREAS SHALL BE CONTINUOUSLY MAINTAINED SO THAT THE SURFACE SHALL BE SMOOTH AND HAVE SUFFICIENT SLOPE TO ALLOW WATER TO DRAIN FROM THE SURFACE.
2. EMBANKMENT
- A. GENERAL:
- THE EMBANKMENT SHALL CONSIST OF A CONTROLLED FILL CONSTRUCTED IN THE AREAS INDICATED ON THE GRADING PLANS.
- B. EMBANKMENT MATERIALS:
- EMBANKMENT FILL MATERIAL SHALL CONSIST OF SOILS THAT CONFORM TO THE FOLLOWING PHYSICAL CHARACTERISTICS:
- SIEVE SIZE (SQUARE OPENINGS) % PASSING BY WEIGHT
- 1 INCH 100
- NO. 4 40-100
- NO. 200 10-60
- THE PLASTICITY INDEX OF THE MATERIALS, AS DETERMINED IN ACCORDANCE WITH ASTM D-423 AND D-424, SHALL NOT BE MORE THAN 15.
- THE FILL MATERIAL SHALL BE FREE FROM ROOTS, GRASS, OTHER VEGETABLE MATTER, CLAY LUMPS, OR OTHER DELETERIOUS MATERIALS. NESTING OF LARGE COBBLES SHOULD BE AVOIDED.
- SITE SOILS FROM THE CUTS MAY BE USED FOR FILL, PROVIDED THEY MEET THE REQUIREMENTS IN PARAGRAPH B OF EMBANKMENT. IT IS ANTICIPATED THAT SOME BLENDING OF SOILS WILL BE REQUIRED TO MEET SPECIFICATIONS.
- C. CONSTRUCTION:
- COMPACTION: THE FILL SHALL BE SPREAD IN HORIZONTAL LAYERS NOT EXCEEDING 8 INCHES, MOISTURE ADDED AS NECESSARY, AND COMPACTED. THE MOISTURE CONTENT AT THE TIME OF COMPACTION SHALL BE WITHIN 2 PERCENT OF OPTIMUM.
- COMPACTION SHALL BE WITH A VIBRATORY ROLLER TO OBTAIN A DENSITY OF NOT LESS THAN 95 PERCENT OF MAXIMUM DENSITY BENEATH TRAIL AND 90' IN SHOULDER AREAS.
- OPTIMUM MOISTURE AND MAXIMUM DENSITY FOR EACH SOIL USED SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D-1557.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEERS SEAL	
CONTRACTOR	DATE	STATION NAME	REMARKS	NO.	BY	REVISIONS	DESIGN
CONTRACTOR: K. Hall Co.	DATE: 2/2/05	LOCATED 6.5 MILES NORTH OF DOWNTOWN ALBUQUERQUE;	LOCATED 6.5 MILES NORTH OF DOWNTOWN ALBUQUERQUE;				
WORK STAKED BY: J. Gallegos	DATE: 2/2/05	A STANDARD BRASS CAP SET IN A CONCRETE APRON	A STANDARD BRASS CAP SET IN A CONCRETE APRON				
FIELD ACCEPTANCE BY: L. Polke	DATE: 2/2/05	AT THE NORTHEAST CORNER OF THE CONFLUENCE OF THE	AT THE NORTHEAST CORNER OF THE CONFLUENCE OF THE				
FIELD STATION BY: RMO	DATE: 2/2/05	NORTH PINO ARROYO AND THE NORTH DIVERSION CHANNEL.	NORTH PINO ARROYO AND THE NORTH DIVERSION CHANNEL.				
DRAWINGS CORRECTED BY: RMO	DATE: 2/2/05	NGVD 29	NGVD 29				
MICRO-FILM INFORMATION	RECORDED BY	NORTHING: 1,516,507.279	NORTHING: 1,516,507.279				
	NO.	EASTING: 394,082.557	EASTING: 394,082.557				
		ELEVATION: 5074.0	ELEVATION: 5074.0				

FOR INFORMATION ONLY

Resource Technology, Inc.

Civil Engineering 5501 Jefferson Blvd. NE, Suite 200
Environmental Sciences Albuquerque, New Mexico 87109
Water Resources E-mail: rti@rti.net
Landscape Architecture Telephone: (505) 243-7300
Planning Facsimile: (505) 243-7400

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
TRANSPORTATION DIVISION

TITLE: JOURNAL CENTER TRAILS
NORTH PINO ARROYO TRAIL
EARTHWORK SECTIONS

Design Review Committee City Engineer Update

APPROVE SFP 21 2004

DESIGN REVIEW COMMITTEE

CITY ENGINEER

DESIGNED BY RMO DATE APRIL 2004
DRAWN BY PAE, RMO DATE APRIL 2004
CHECKED BY RMO DATE

PROJECT NO. 630194 MAP NO. D-17-Z SHEET 9 OF 9

NM PROJECT NO. IPE-7701 (38)