# PLANS FOR CONSTRUCTION

HERITAGE UNIT 1 DRB PROJECT NO. 1003354 DRB APPLICATION NO. 04DRB-00457

HERITAGE UNIT 2 DRB PROJECT NO. 1003353 DRB APPLICATION NO. 04DRB-00452

#### **As-Built Block Information**

Contractor: TLC Company, Inc. Work Staked By: Rio Grande Surveys Inspectors Acceptance By: COA\Bill Woodward\Mike Sedillo Field Verification By: COA Same as Above Drawings Corrected BY: Vector Engineering, Karen Aspelin





#### NOTES:

1. CONTRACTOR SHALL WORK CONTINUOUSLY, 24 HOURS PER DAY, ON ALL ARTERIAL ROADWAYS WHEN TRAFFIC LANES ARE CLOSED TO TRAFFIC UNLESS THE WORK VIOLATES THE CITY'S NOISE ORDINANCE.

2. IF THE CONTRACTOR IS NOT ALLOWED TO WORK AT NIGHT DUE TO THE CITY'S NOISE ORDINANCE. THE CONTRACTOR SHALL OPEN ALL TRAFFIC LANES TO TRAFFIC WITH THE PROPER USE OF TRENCH PLATES DURING NON-WORKING HOURS, AND MUST WORK MINIMUM HOURS FROM 9:00 A.M. TO 3:00 P.M. MONDAY THROUGH SATURDAY.

3. ARTERIAL STREETS ARE AS INDICATED IN THE "LONG RANGE ROADWAY SYSTEM" MAP PUBLISHED BY THE MID-REGION COUNCIL OF GOVERNMENTS (MRCOG).

#### UTILITY COMPANY CONTACTS

#### PNM-ELECTRIC

ANTHONY KOZLOWSKI Project Manager 4625 Edith Blvd., NE Albuquerque, New Mexico 87107 (505) 241-3637

AT&T DAVID STOCKTON AREA MANAGER-GNFO DENVER, CO. (303) 620-2254

#### QWEST

NATALIA ANTONIO Sr. Designer Engineer 201 3rd Street NW Room 700 Albuquerque, New Mexico 87102 (505) 245-6846

#### XSPEDIUS

STEVE BENJAMIN 505 Marguette NE, Suite 1605 Albuquerque, New Mexico 87102 (505) 998-2220

NEW MEXICO GAS CO. MARK BOUCHARD MAIL STOP G S66 4625 Edith Blvd., NE Albuquerque, New Mexico 87107 (505) 697-3144

COMCAST CABLE MIKE MORTUS Construction Coordinator 4611 Montbel Pt., NE Albuquerque, New Mexico 87107 (505) 761-6252

ABC WUA (WATER & SEWER) ANTHONY MONTOYA, PE. SENIOR ENGINEER P.O. Box 1293 Albuquerque, New Mexico 87103 (505) 768-2713

McLeodUSA RICK MUELLER Supervisor of Outside Techs. 505 Marguette NE, Suite 1600 Albuquerque, New Mexico 87102 (505) 217-0038

MCI WORLDCOM ANDY DARNELL Operation Manager 6001 Midway Park, NE Albuquerque, NM 87107

(505) 346-4470

TIME WARNER TELECOM ROYAL HARRISON Plant Manager 3830 Singer Blvd. NE, Suite 1000 Albuquerque, NM 87109 (505) 938-7339

QWEST LONG DISTANCE LARRY KELLY 400 TIJERAS AVE. NW SUITE 570 Albuquerque, New Mexico 87102 (505) 246-0501

RED FLEX BRIAN KORITA 23751 N 23RD AVE. PHOENIX, AZ, 85085 (480) 226-7725



TITLE SHEET & GENERAL NOTES SUMMARY OF QUANTITIES & MISC. SCHEDULES SURVEY CONTROL SHEET TYPICAL SECTIONS & MISC. DETAILS PLAN AND PROFILE SHEET TRAFFIC SIGNAL NOTES SIGNAL PLAN SIGNAL PLAN-FUNCTION CHARTS SIGNAL PLAN-CONDUITS AND CABLES Q SIGNING AND STRIPING PLAN 10

# PASEO DEL NORTE AND RAINBOW BLVD. SIGNAL PLAN PROJECT #738486

# INDEX OF SHEETS

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.

aren mulin

Vector	
Engineering	, LLC

09/12/1 / DATÉ

FINAL SUBMITTAL



GENERAL NOTES

- REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

- SECTION 4.4.
- OTHER PROJECTS IN THE AREA.
- EXISTING UTILITIES.
- UNTIL ALL DATA HAS BEEN RECORDED.
- SHALL REPAIR OR REPLACE, PER STANDARD SPECIFICATIONS.
- WHETHER PERMANENT OR TEMPORARY.
- CITY.

#### **RECORD DRAWINGS**

ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION THROUGH UPDATE #7. INCLUDING AMENDMENT NO. 1, AND WILL BE REFERRED TO HEREIN AS STANDARD SPECIFICATIONS

ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY OR EASEMENTS MUST BE DONE FROM APPROVED WORK ORDER DOCUMENTS FROM THE CITY.

3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, AND

4. CONTRACTOR AGREES THAT HE SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER AND ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE

5. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE ACCOMPLISHED IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.

5. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.

7. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. ONLY THE CITY SURVEYOR SHALL REPLACE SURVEY MONUMENTS. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO STANDARD SPECIFICATIONS

B. SEVEN (7) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL SUBMIT TO OMD CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE DMD CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF STANDARD SPECIFICATIONS. PERMIT REQUESTS MAY BE DENIED OR DELAYED DUE TO CONFLICTS WITH

9. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF

10. CONTRACTOR SHALL ASSIST THE ENGINEER INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES

11. AT HIS OWN EXPENSE, CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENT, PAVEMENT MARKINGS, CURB AND GUTTER, WHEELCHAIR RAMPS, AND SIDEWALK DURING CONSTRUCTION APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS AND

12. ALL STREET STRIPING, ALTERED OR DESTROYED, SHALL BE REPLACED WITH THERMOPLASTIC REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR TO SAME LOCATION AS EXISTING, OR AS INDICATED BY THIS PLAN SET. CONTRACTOR SHALL COORDINATE WITH CITY TRAFFIC OPERATIONS.

13. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT,

14. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND MAINTAIN ALL CONSTRUCTION SIGNING UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE

15. EXISTING UTILITY LINE LOCATIONS ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. THE LOCATION OF ANY SUCH EXISTING LINES IS BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANY, THE OWNER, OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.

16. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES.

17. REMOVALS SHALL BE DISPOSED OF OFF-SITE AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

18. WHEN ABUITING EXISTING PAVEMENT TO NEW, SAWOUT EXISTING PAVEMENT TO A STRAIGHT EDGE AND AT A RIGHT ANGLE, OR AS APPROVED BY THE FIELD ENGINEER. REMOVAL OF BROKEN OR CRACKED PAVEMENT WILL ALSO BE REQUIRED.

19. REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK SHALL BE TO THE NEAREST JOINT OR SAW CUT,

					· · · · · · · · · · · · · · · · · · ·			
REV.	SHEETS	CITY E	NGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINE	ER'S STAMP &	SIGNATURE	APPROVED		ENGINEER	DATE	APPROVED FO	
			DRC Chairman	Allog	dall	11/29/2	CONSTRUCTIO	М
			Transportation	11	Mar	11-9-10		
	UNREN AS	20	ABCWUA	Jum	14	11-9-10		
	+ MEY	14	Hydrology	Cente	a chere	11-9-10		
1	2000	SIA	CIP			1 1		A7
N	E (13293)	1. Bull	AMAFCA			1	no last	11-29-
p	KOK MI	JEJRAN.	Constr. Coord			Fo	OFT ENGINEER	DATE
1	1-07-	10	PROJECT N	UMBER 8485	ZONE ATLAS N		WING NO. 1 OF	10

CITY EM NO.	DESCRIPTION	UNIT	QTY.
	SIGNAL IMPROVEMENTS		
21.010	METER PEDESTAL (SIGNAL, SIX CIRCUIT)	EACH	1
21.015	SERVICE CONNECTION (SIGNAL)	EACH	1
22.003	TRAFFIC SIGNAL PEDESTAL POLE, 13 FEET	EACH	* 4
22.019	TRAFFIC SIGNAL MASTARM, 35-FOOT ARM, TYPE III, TROMBONE	EACH	2
22.021	TRAFFIC SIGNAL MASTARM, 40-FOOT ARM, TYPE III, TROMBONE	EACH	2
23.001	TRAFFIC SIGNAL FOUNDATION FOR PEDESTAL POLE	EACH	X 4
23.002	TRAFFIC SIGNAL MASTARM FOUNDATION	EACH	4
23.003	TRAFFIC SIGNAL CONTROLLER FOUNDATION (TYPE M & P CABINET)	EACH	1
24.011	ELECTRICAL CONDUIT, 3", INCLUDING TRENCHING, BACKFILL, PATCHING, PUSHING, BORING & JACKING	LIN.FT.	1,20010
24.1X	ELECTRICAL CONDUIT, 4", INCLUDING TRENCHING, BACKFILL, PATCHING, PUSHING, BORING & JACKING	LIN.FT.	285
25.003	ELECTRICAL PULL BOX (LARGE)	EACH	6
25.020	TRAFFIC SIGNAL MANHOLE	EACH	1
26.001	SINGLE CONDUCTOR #2	LIN.FT.	2,540 /
26.003	SINGLE CONDUCTOR #6	LIN.FT.	1,760
26.010	MULTI-CONDUCTOR CABLE, #5	LIN.FT.	1,260
	MULTI-CONDUCTOR CABLE, #7	LIN.FT.	280 2
26.014	MULTI-CONDUCTOR CABLE, #20 3 SECTION TRAFFIC SIGNAL ASSEMBLY	EACH	1,285
27.002	5 SECTION TRAFFIC SIGNAL ASSEMBLY	EACH	5
27.0XX	PEDESTRIAN SIGNAL, L.E.D., COUNTDOWN	EACH	8
	3 SECTION BACKPLATE	EACH	5
27.033	5 SECTION BACKPLATE	EACH	3
28.010	PUSH BUTTON STATION	EACH	8
28.050	LOOP LEAD-IN CABLE	LIN.FT.	80
28.071	PHASE SELECTOR MODULE 2 CHANNEL	EACH	1
28.075	OPTICAL DETECTOR 1D/1C	EACH	4
28.078	OPTICAL DETECTOR CABLE	LIN.FT.	1,365 8
28.090	MACHINE VISION VEHICLE DETECTION SYSTEM	EACH	1
28.092	VIDEO COAXIAL CABLE	LIN.FT.	1,360 8
28.093	VIDEO POWER CABLE	LIN.FT.	1,360 8
28.094	VIDEO CAMERA	EACH	4
29.001	TRAFFIC ACTUATED CONTROLLER	EACH	1
29.021	8 PHASE DUAL RING CONTROLLER CABINET	EACH	1
32.001	ROADWAY LUMINAIRE, TYPE 2505	EACH	4
	ROADWAY IMPROVEMENTS		and the second
05.010	FILL, BORROW, HAUL & COMP	CU.YD.	3
01.020	SUBGRADE PREP, 12"	SQ.YD.	55 55
02.01X	AGGREGATE BASE COURSE, CRUSHED, 5" AT 95% COMPACTION	SQ.YD.	¥65 7/
36.022	ASPHALT CONCRETE, SUPERPAVE, 2"	SQ.YD.	288 73
36.120	TACK COAT	SQ.YD.	20 AKT C
40.023	WHEELCHAIR ACCESS RAMP, 4" PCC HEADER CURB, PCC	SQ.YD. LIN.FT.	38
41.010	ASPHALT CONCRETE CURB, MACHINE EXTRUDED	LIN.FT.	13
43.020	EX. PAVEMENT, ASPHALT CONCRETE < 4" THICK, SAWCUT, REMOVE AND DISPOSE	SQ.YD.	DK 18
43.020	EX. CURB, ASPHALT CONCRETE, REMOVE AND DISPOSE	LIN.FT.	X 4
46.110	MEDIAN PAVEMENT, 4" THICK, COLORED PC CONCRETE, INCL. SUBGRADE COMPACTION	SQ.FT.	246/40
41.001	REFLECTORIZED PLASTIC PAVEMENT MARKING, 4" WIDTH	LIN.FT.	35 3
41.004	REFLECTORIZED PLASTIC PAVEMENT MARKING, 12" WIDTH	LIN.FT.	20 9
41.005	REFLECTORIZED PLASTIC PAVEMENT MARKING, 24" WIDTH	LIN.FT.	X
41.010	REFLECTORIZED PLASTIC ARROW, RIGHT	EACH	2
41.011	REFLECTORIZED PLASTIC ARROW, LEFT	EACH	2
41.020	REFLECTORIZED PLASTIC WORD, ONLY	EACH	1
43.101	REMOVAL OF PAVEMENT STRIPE	LIN.FT.	1986
	ALUMINUM PANEL SIGN	SQ.FT.	Xr /
50.001	SIGN POST & BASE POST, REMOVE AND SALVAGE	EACH	8
		EACH	1
50.101 50.102	SIGN POST & BASE POST, REMOVE AND RELOCATE		
50.001 50.101 50.102 XXXXX	DETECTABLE WARNING SURFACE	SQ.FT.	60
50.101 50.102	DETECTABLE WARNING SURFACE		60 60 240

10+00     to     10+85     NEW PAVEMENT FOR       10+00     to     10+85     NEW PAVEMENT FOR       10+85     to     12+02     NEW PAVEMENT FOR       10+85     to     12+02     NEW PAVEMENT FOR       10+85     to     12+02     NEW PAVEMENT FOR       12+02     to     12+51     NEW PAVEMENT ARD       12+02     to     12+51     NEW PAVEMENT ARD       NEW ASPHAL     NEW ASPHALT AT SO	Description R RIGHT TURN TAPER (1ST LIFT) R RIGHT TURN TAPER (2ND LIFT) OR RIGHT TURN LANE (1ST LIFT) OR RIGHT TURN LANE (1ST LIFT) R RIGHT TURN LANE (2ND LIFT) R RIGHT TURN LANE (2ND LIFT)	Length (ft) 85 85	Sub	)1 <u>.02</u> grade rep												104030	N R	ND OF THE		
10+00 to 10+85 NEW PAVEMENT FOR 10+00 to 10+85 NEW PAVEMENT FOR 10+85 to 12+02 NEW PAVEMENT FOR 10+85 to 12+02 NEW PAVEMENT FOR 12+02 to 12+51 NEW PAVEMENT ARD 12+02 to 12+51 NEW PAVEMENT ARD NEW ASPHAL NEW ASPHALT AT SO	R RIGHT TURN TAPER (1ST LIFT) R RIGHT TURN TAPER (2ND LIFT) OR RIGHT TURN LANE (1ST LIFT) R RIGHT TURN LANE (2ND LIFT)	(ft) 85			(	302.01X regate Ba ourse, 5"			[2" LIFT	omplete	MMA SP	36.022 P IV Comi 2" LIFT)		Asphalt for Ta	6.12 Material ck Coat	IARKS	D PASED DEL	ON THE HEADER CUP	TAMPED "5-B9 200. 432.305 NAD 83	
10+00 to 10+85 NEW PAVEMENT FOR 10+85 to 12+02 NEW PAVEMENT FOR 10+85 to 12+02 NEW PAVEMENT FOR 12+02 to 12+51 NEW PAVEMENT ARG 12+02 to 12+51 NEW PAVEMENT ARG NEW ASPHALT ARG NEW ASPHALT AT SO	R RIGHT TURN TAPER (2ND LIFT) OR RIGHT TURN LANE (1ST LIFT) IR RIGHT TURN LANE (2ND LIFT)			Area (SY)	Width (ft)	Depth (in)	Afea (SY)	Width (ft)	Depth (in)	Area (SY)	Width (ft)	Depth (in)	Area (SY)	Width (ft)	Area (SY)	200 3	5-89 C		TTON S	G=1524
10+85 to 12+02 NEW PAVEMENT FO 10+85 to 12+02 NEW PAVEMENT FOR 12+02 to 12+51 NEW PAVEMENT ARG 12+02 to 12+51 NEW PAVEMENT ARG NEW ASPHAL NEW ASPHALT AT SO NEW ASPHALT AT SO	OR RIGHT TURN LANE (1ST LIFT) R RIGHT TURN LANE (2ND LIFT)	00	8.4	79	8.4	5	79	7.1	2	67				7.1	67	Tanon I	UNIVERSE BLVD	W. TRA	TERSEC	DR THING
IO+85         to         12+02         NEW PAVEMENT FOR           12+02         to         12+51         NEW PAVEMENT ARG           12+02         to         12+51         NEW PAVEMENT ARG           NEW ASPHAL         NEW ASPHALT AT SO         NEW ASPHALT AT SO	R RIGHT TURN LANE (2ND LIFT)	117	16.8	218	16.8	5	218	7.1	2	67 183				14.11	183		TEU	= <u>z</u>	<u>Z</u> d	žŭ
NEW ASPHAL NEW ASPHAL NEW ASPHALT AT SO	OUND CURB RADIUS (1ST LIFT)	117	10.0	210	10.8		210	14.11	2	183						A TION	DA			
NEW ASPHAL NEW ASPHALT AT SC NEW ASPHALT AT SC	OUND CURB RADIUS (2ND LIFT)			90		5	90		2 2	90 90		transfer to other			90	INFORMA	Y			
NEW ASPHALT AT SC NEW ASPHALT AT SC	LT TRAIL AT SW CORNER	36	6	24	1		10 )		_		6	2	24			12				
- NEW ASPHALT AT SO	OUTH MEDIAN NOSE (1ST LIFT)	43	0	29			77		2	77	6		29		77	SURVE	Ĕ		- (	
For Contractor's Information Only	OUTH MEDIAN NOSE (2ND LIFT)	-							2	77	-		-			S	NON			
For Contractor's Information Only	<del>In a substantion of the substantion of the</del>	Project Total		\$17			465			835			53		417	AL		1.	14	
		Item Base Cour HMA (SPI Asphalt for Tai Asphalt for Prir OGFC	rse III) ck Coat	6.00%	PG 70-28+	3950 4086 3640	5Y 0.08 0.45	24 24	0	Lime 1.50% 1.00%						ENGINE		BY V	Lave	1 01
·		ENGINEE CERTIFY BASED CONSTR CONSTR DESIGN	ER IN T THAT UPON UCTION UCTION DRAWI	HE STATE THE INDIG INFORM CONTRAC DRAWING NGS. TH	A REGIST OF NEW CATED REC MATION F CTOR IN THI G MARKUP IE TRANSF CORRECT T	MEXICO, CORD DR/ PROVIDED E FORM C S TO TH ER OF I	DO HERI AWINGS BY DF RED-LII HE ORIGI NFORMAT	EBY ARE THE NED NAL TON										ATE REMARKS	REVISIONS	BY KA BN
		KNOWLE THE A INFORM CONTRA ERRORS RESULT OTHERS	EDGE AN CCURAC ATION CTOR CTOR OR OM OF E	ID BELIEF. CY AND/C PROVIDE AND SHAI ISSIONS T RRONEOU INFORMA	HOWEVER DR COMP D BY LL NOT B HAT MAY BI S INFORM TION INCL	I, I HAVE N LETENESS THE CO E RESPO E INCORPO ATION PO JDING VE	NOT VERIF S OF ONSTRUCT ONSIBLE F ORATED A ROVIDED ERTICAL A	FIED THE TON FOR AS A BY AND			FIN AL		CITY ENT C	OF AL	BUQUERQU	UE EVELOP	PMEN	NON		DESIGNED DRAWN BY
		PRIOR T	O USE C		S SHOULD PROJECTS <u>//</u>	i.	D9/12/ D9/12/		TITE	LE:	UNIM A	RY OF	PAS	EO DE	NG DIVISIO EL NORT VD. SIGN NES AND	E AN	ID Plan IC. S	снЕ		
				Ve	ngina	<b>D</b> /	ng, L	LC	Des	ign Review PPR( NOV 2 1	OVEF	tee C	APP	ineer Ap ROV V <b>2 9</b> 201	En s		е. / Бар /	¥r.		<u>i Devi i</u> vi

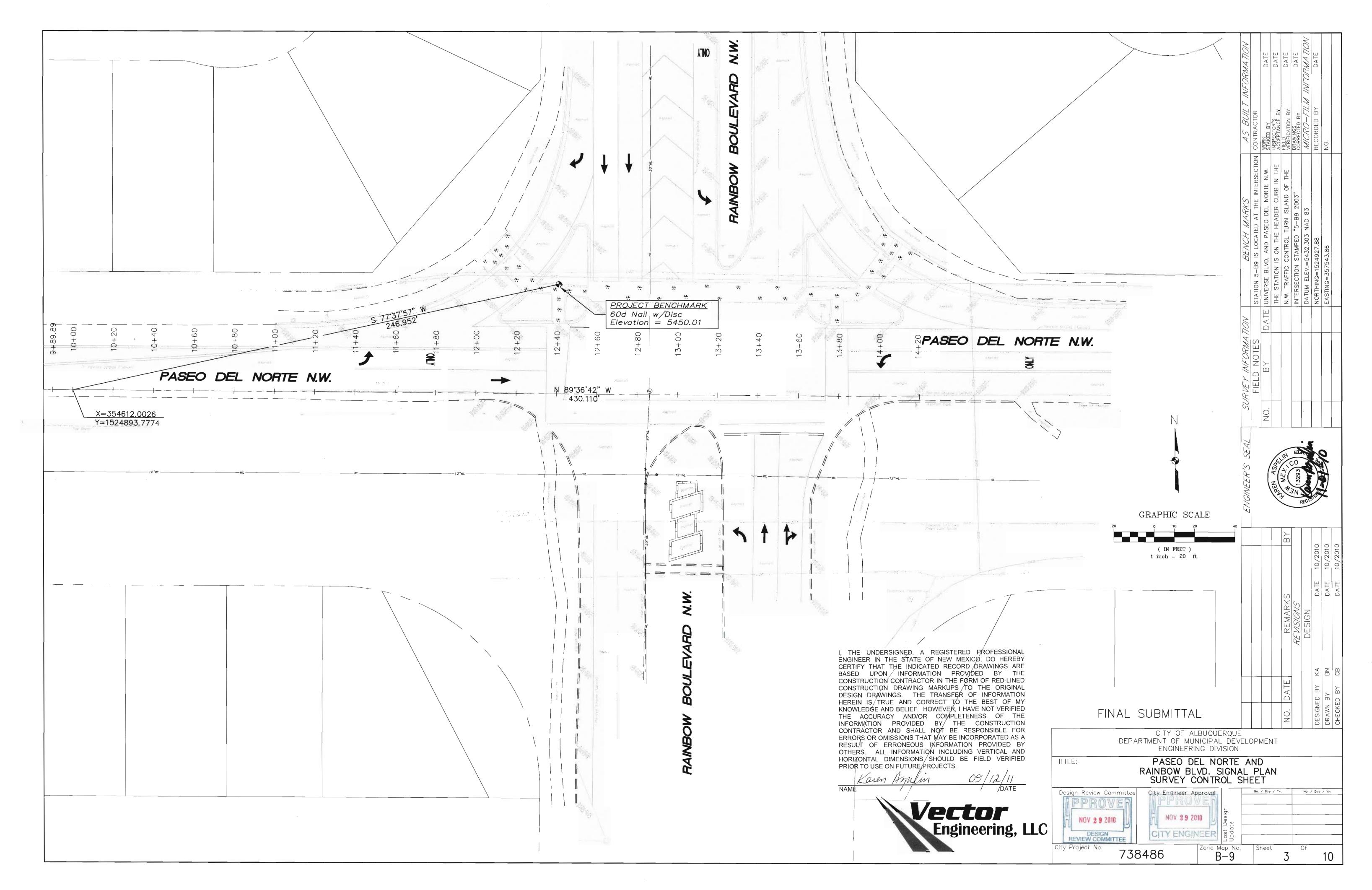
~

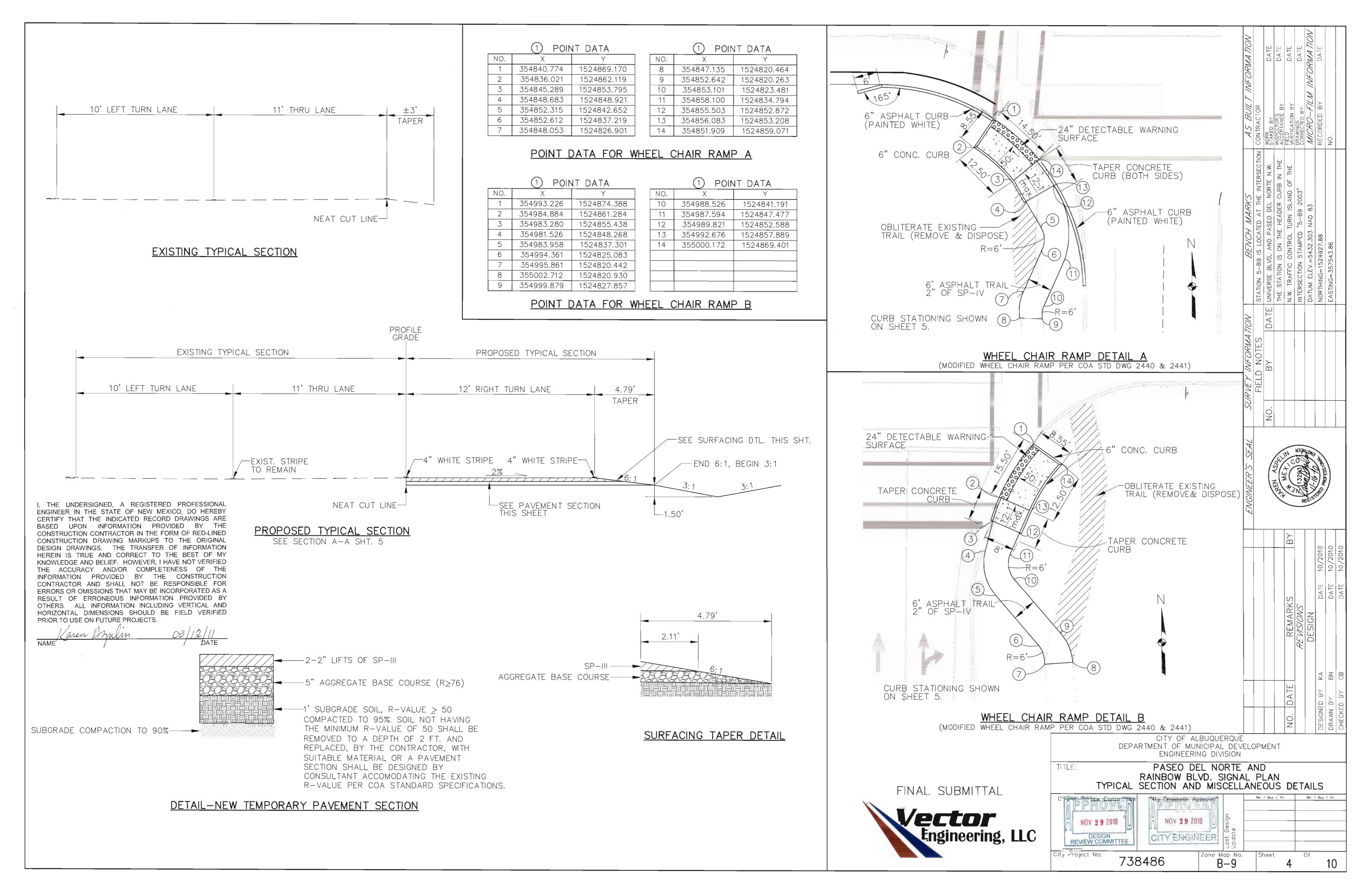
Estimated S Item PG 64-22 PG 70-28+ Base Course HMA (SPIII) 6.00% Asphalt for Tack Coat Asphalt for Prime Coat											
ltem	PG 64-22	PG 70-28+	v (1								
Base Course											
HMA (SPIII)	6.00%										
Asphalt for Tack Coat			1								
Asphalt for Prime Coat											
OGFC		6.50%									



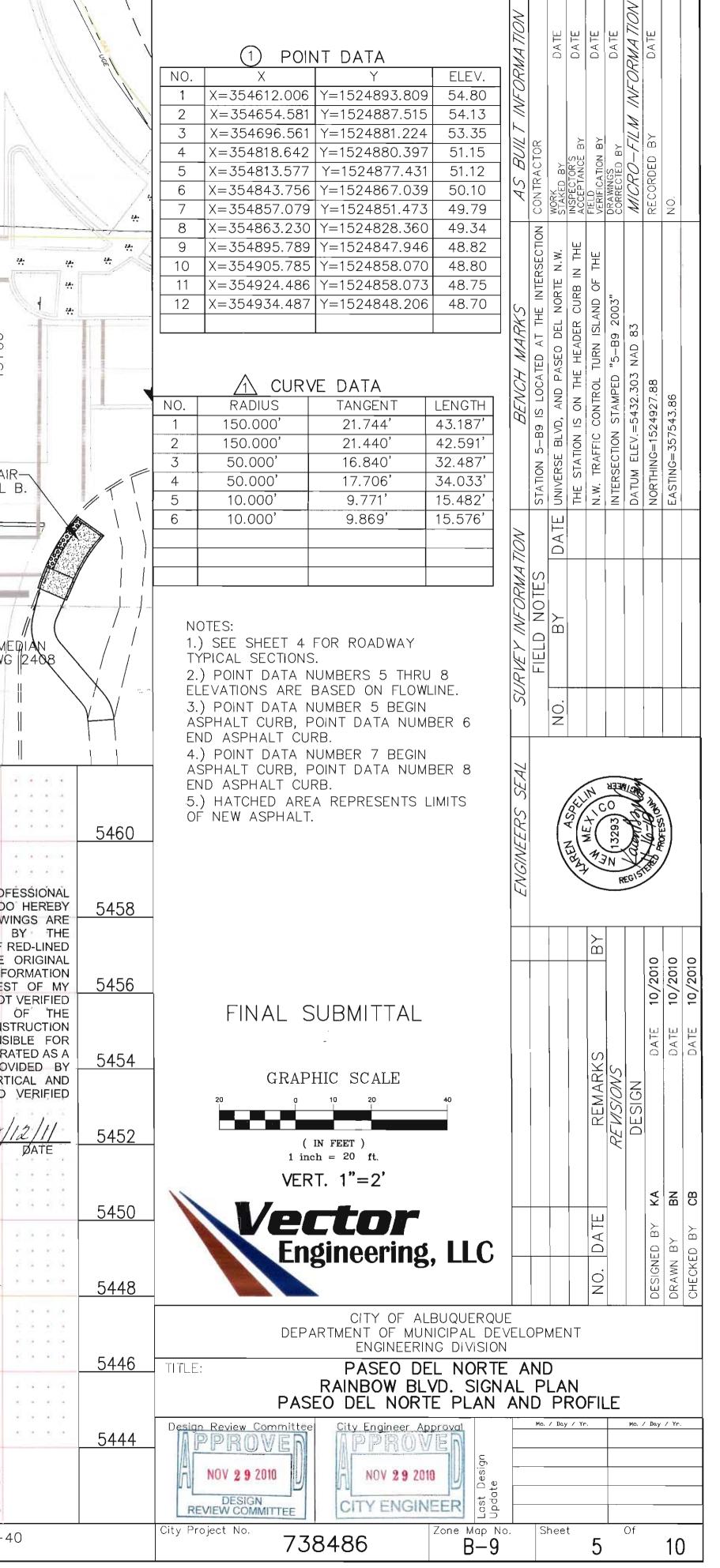
# **RECORD DRAWINGS**

NON





														UGE	* *				25		RAINBOW BLVD. N.W.	
  	PASEC		0 0 + NORTI	ο		10+20	10+40	10+60	10+80	11+00 100	 	с 0 + 1 50' Т	09+ E URN LANE	AW11+80	12+00	12+20	12+40	12+60	12+80	13+00	13+20 	13+60 
	-EXIS	TING EDGE	OF ASPH	ALT									E	IP. ASPHAI DWG. 2415 BUILD NEW RAMP. SEE	WHEEL CH SHT. 4 D	TL. A.	$\mathbf{X}$	D NEW TEMP COA STD. D OVE EXIST. C	ASPHALT WG. 2415B-	-I	19910-0	WHEEL CHAIR- SHT. 4 DTL B.
			)			- CONTRACTO UNCHANGE MIX APPRO INCIDENTAL	D. ALL DIS IVED BY TH	TURBED AF HE PROJEC	REAS SHAL T MANAGEF	L BE RESE R. THIS W ON.	EDED WITH	H A SEED	PER C	NEW TEMF	P. ASPHAL DWG. 2415						3UILD NEW ( VMT, 4' WIE	CONCRETE MEDI DE. COA DWG 2
5460 5458											· · · · ·	* * * * * * * * *						•	 	UNDERSIGN	STATE OF NE	STERED PROFES W MEXICO, DO H RECORD DRAWING
<u>5456</u> 5454		-1.54%						PROP	OSED GROU	JND		A = 11 + 40 $CV = 5452.31$		<ul> <li>8</li> <li>9</li> <li>9&lt;</li></ul>					CONS DESIG HEREI	RUCTION DRA N DRAWINGS. N IS TRUE A LEDGE AND BE ACCÚRACY	IFORMATION ITRACTOR IN AWING MARK	PROVIDED BY THE FORM OF REI (UPS TO THE OI ISFER OF INFOR TO THE BEST /ER, I HAVE NOT VI MPLETENESS OF THE CONSTR BE RESPONSIBL / BE INCORPORATE
5452								-1.759				PVI ELE	-1.8	8%			EXISTI	NG GROUND	. 1	RS. ALL INFO		RMATION PROVID CLUDING VERTICA JLD BE FIELD VI CTS. 09/12
<u>5450</u> 5448						· · · · · · · · · · · · · · · · · · ·															-1.85%	
5446 5444	n ((			) 1000000000000000000000000000000000000	/6 76	.46 .41	0 <mark>9</mark>	71 71	<b>30</b> 0	2 - 2 (2) 4	66 66	.31			<b>18</b>	2.2	ан нан ар 20 ар			.25		N C
یں ج 9 -	+20		1		<b>5454</b> .	5454 5454	<b>5454</b> <b>5454</b>	<b>0</b> 4	<b>545</b> 3. <b>5453</b> . 08+0	5453 5453	<b>2452.</b> <b>5452.</b> 11+50	5452. 5452.	<b>5451</b> .	5451.55 <b>5451.5</b> 6	<b>2451</b> . 12+00	5450.	0 <u>9</u> 12+40	5450.	6445	544	xi 4 4 4 4 4 4 4 4 4 4 4 4 4	i <del>co</del>



#### TRAFFIC SIGNAL GENERAL NOTES

- THIS PROJECT INCLUDES THE INSTALLATION OF A NEW TRAFFIC SIGNAL AT THE PASEO DEL NORTE/ RAINBOW BOULEVARD INTERSECTION.
- ALL WORK ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE CURRENT NATIONAL ELECTRIC CODE, THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS FOR ELECTRICAL WIRING AND APPARATUS, AND THE CITY OF ALBUQUERQUE'S TRAFFIC ENGINEERING OPERATIONS SPECIFICATIONS (CURRENT EDITION).
- 3. LOCATIONS OF CONDUITS, FOUNDATIONS, CONTROL CABINETS, POLES, PULL BOXES, AND MANHOLES SHOWN ON THE PLANS ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD TO MAXIMIZE CLEAR SPACE AVAILABLE FOR PEDESTRIANS AND WHEELCHAIRS TO COMPLY WITH THE AMERICAN WITH DISABILITIES ACT. THE CONTRACTOR SHALL MEET WITH THE CITY'S TRAFFIC ENGINEERING OPERATIONS PERSONNEL IN THE FIELD AT ALL LOCATIONS TO SPOT EQUIPMENT BEFORE BEGINNING THE WORK, ALL SUCH EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY.
- 4. THE CONTRACTOR IS WARNED THAT EXISTING CONDUITS MAY CONTAIN AC POWER AND CAUTION SHALL BE EXERCISED IN INTERCEPTING OR INSTALLING CABLE IN EXISTING CONDUIT.
- 5. THE CONTRACTOR SHALL BORE, DRILL, OR PUSH WHEN CROSSING EXISTING PAVEMENTS AND ANY DRIVEWAYS FOR SIDE STREET CROSSINGS. BEFORE CONDUIT CAN BE BORED, DRILLED, OR PUSHED THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES. THE CONTRACTOR SHALL LOCATE AND EXPOSE GAS LINES WHICH CROSS ANY PROPOSED BORES. THESE EXCAVATIONS SHALL REMAIN OPEN UNTIL AFTER THE BORE IS COMPLETE. CONTRACTOR SHALL REMOVE AND REPLACE IN KIND ANY SIDEWALK OR PAVEMENT REQUIRED TO EXPOSE SUCH LINES. THE CONTRACTOR MAY CUT, TRENCH, AND REPLACE EXISTING PAVEMENT ONLY WHEN APPROVED BY THE PROJECT MANAGER.
- 6. SPLICING OF TRAFFIC SIGNAL MCC WILL BE PERMITTED IN LARGE PULL BOXES, INCLUDING LARGE MEDIAN PULL BOXES. <u>SPLICES IN PULL BOXES WILL BE CONNECTED USING GEL-FILLED WIRE NUTS</u>. SPLICING OF VIDEO DETECTION CABLE WILL NOT BE PERMITTED FROM THE MASTARM BASE TO THE CONTROLLER CABINET. SPLICING OF OPTICAL DETECTOR CABLE WILL NOT BE PERMITTED FROM THE DETECTOR TO THE CONTROLLER CABINET.
- ALL VIDEO DETECTION CABLE SHALL BE TAGGED AT THE CONTROLLER CABINET TO IDENTIFY EACH CABLE BY CAMERA NUMBER AND LOCATION. ALL OPTICAL DETECTOR CABLE SHALL BE TAGGED AT THE CONTROLLER CABINET TO IDENTIFY EACH BY DIRECTION AND LOCATION.
- 8. THE CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS (857-8000) THREE WORKING DAYS IN ADVANCE OF ANY ANTICIPATED WORK ON SIGNALS, LIGHTING, AND POWER SERVICES AT THE INTERSECTION. TRAFFIC ENGINEERING OPERATIONS PERSONNEL WILL ASSIST THE CONTRACTOR IN THE FIELD LOCATION OF EQUIPMENT, COLOR CODING OF WIRING, AND MUST BE PRESENT WHEN SIGNALS AND LIGHTING ARE SHUT OFF OR TURNED ON. THE CONTRACTOR SHALL ALSO NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS EACH TIME A SIGNAL CONTROLLER DOOR IS TO BE OPENED AT THE INTERSECTION.
- THE CONTRACTOR SHALL NOTIFY PNM 30 DAYS IN ADVANCE OF ANY ANTICIPATED POWER SERVICE CONNECTIONS OR MODIFICATIONS. THE CONTRACTOR SHALL COORDINATE WITH PNM TO MAINTAIN ELECTRICAL SERVICE IN THE CITY'S NAME AT THE INTERSECTION.
- THE CONTRACTOR SHALL REMOVE ALL CONFLICTING SIGNING AND DELIVER TO THE CITY TRAFFIC ENGINEERING YARD WHEN TRAFFIC SIGNALS ARE PUT INTO OPERATION. THIS WORK IS CONSIDERED INCIDENTAL TO THE CONTRACT.
- LIVE UNUSED CONDUCTORS WILL NOT BE ALLOWED AT MASTARM POLES AND PEDESTAL POLES. ALL SUCH UNUSED CONDUCTORS SHALL BE DISCONNECTED AT THE LARGE PULL BOX ADJACENT TO THE POLE.
- 12. IF TRENCH WIDTHS LESS THAN 12" ARE PROPOSED BY THE CONTRACTOR, APPROVED COMPACTION METHODS SHALL BE USED DURING BACKFILL TO PREVENT LATENT TRENCH FAILURES. THE CONTRACTOR SHALL USE GROUT OR LEAN FILL AS APPROVED BY THE PROJECT MANAGER IN LIEU OF EARTH BACKFILL.
- 13. THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS WILL PROVIDE TRAFFIC SIGNAL TIMING PLANS AND WILL PROGRAM TRAFFIC SIGNAL CONTROLLERS AT THE INTERSECTION.
- 14. FOR CONDUITS CONTAINING ONLY LOW VOLTAGE COMMUNICATIONS CABLES, THE REQUIREMENTS FOR A SINGLE CONDUCTOR BARE COPPER #8 AWG MAY BE WAIVED WHERE PERMITTED BY THE N.E.C.
- 15. EXISTING CONDUITS TO BE REMOVED OR ABANDONED SHALL HAVE ALL WIRING REMOVED. EXISTING CONDUITS SHALL BE REPAIRED, ADJUSTED, OR REPLACED AS DIRECTED BY THE PROJECT MANAGER WHERE ELECTRICAL PULL BOXES OR TRAFFIC MANHOLES ARE INSTALLED OR REPLACED.
- 16. THE CONTRACTOR SHALL PROVIDE OFF-DUTY POLICE OFFICERS TO DIRECT TRAFFIC IF SIGNALS ARE TURNED OFF.
- 17. ALL DATA SHOWN HEREIN CONCERNING EXISTING UTILITIES HAS BEEN OBTAINED FROM "AS-BUILT" DRAWINGS AND FROM FIELD OBSERVATIONS WHICH MAY OR MAY NOT BE ACCURATE. THE CONTRACTOR WILL BE RESPONSIBLE FOR EXPLORATORY TRENCHING, IF NECESSARY, TO MORE SPECIFICALLY LOCATE UTILITY LINES. COST OF LOCATING LINES INCLUDING EXPLORATORY TRENCHING WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

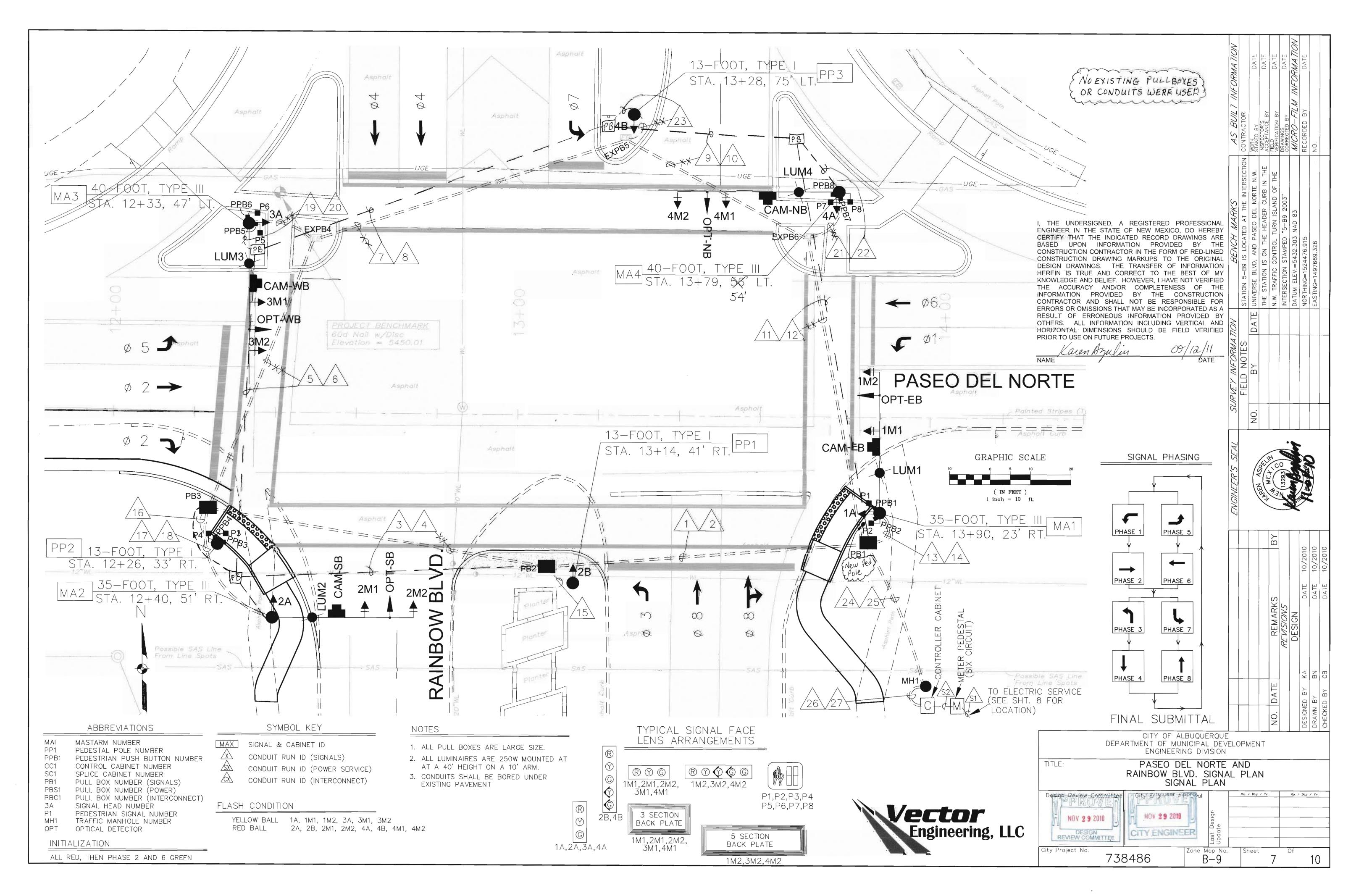
		TRAFI
	TRAFFIC SIGNAL EQUIPMENT REQUIREMENTS	NEW
1.	ALL TRAFFIC SIGNAL EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF ALBUQUERQUE AND SHALL BE APPROVED BY CITY STAFF BEFORE BEING INSTALLED. THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING EQUIPMENT FOR THIS INTERSECTION:	
	<ul> <li>A. ECONOLITE ASC 2S-2100 TRAFFIC SIGNAL CONTROLLER WITH TS-2 CABINET.</li> <li>B. ECONOLITE EIGHT-PHASE DUAL RING "P" SIZE CONTROLLER CABINET WIRED FOR FULL EIGHT-</li> </ul>	•
	PHASE OPERATION, TELEMETRY BOARDS, "IT" TRANSIENT VOLTAGE SURGE SUPPRESSOR	1777
	AND ALL CONNECTING HARNESSES	M
	C. THE CONTROLLER CABINET SHALL BE EQUIPPED WITH A MMU-16LE SMARTMONITOR WITH LCD DISPLAY	C
	D. VIDEO DETECTION CAMERAS SUPPLIED FOR THE PROJECT SHALL BE AUTOSCOPE SOLO TERRA.	Lange of
2	EMERGENCY VEHICLE OPTICAL DETECTOR (EVOD) SYSTEM EQUIPMENT SHALL BE 3M "OPTICOM" MODEL 762 (OR MOST CURRENT ACCEPTABLE MODEL) PHASE SELECTORS MOUNTED ON 3M OPTICOM MODEL 760 RACKS, OR APPROVED EQUAL. ALL RACKS SHALL BE CAPABLE OF PROVIDING FOUR CHANNELS OF DETECTION. PHASE SELECTOR MODULES SHALL BE CAPABLE OF TWO CHANNELS OF DETECTION EACH. OPTICAL DETECTORS SHALL BE 3M "OPTICOM" MODEL 711, ONE CHANNEL, ONE DIRECTION OR APPROVED EQUAL. OPTICAL DETECTOR CABLE SHALL BE 3M "OPTICOM" MODEL 138 OR EQUAL. A MANUFACTURER'S REPRESENTATIVE SHALL ASSIST THE CONTRACTOR IN THE FIELD AS WORK PROGRESSES TO COMPLETE THE INSTALLATION OF ALL EVOD EQUIPMENT AND ASSIST IN SETTING UP, TURNING ON, PROGRAMMING, AND FIELD TESTING PREEMPTION EQUIPMENT, INCLUDING	
	EMITTERS, TO INSURE THAT THE EQUIPMENT IS OPERATIONAL.	
3.	ALL INDICATIONS OF ALL VEHICLE SIGNAL ASSEMBLIES AND ALL PEDESTRIAN SIGNAL INDICATORS SHALL BE L.E.D. SIGNALS OF A TYPE AND MANUFACTURER APPROVED BY THE CITY OF ALBUQUERQUE. PEDESTRIAN SIGNALS SHALL INCLUDE COUNTDOWN INDICATIONS. THE COUNTDOWN SHALL BE FOR	201
	THE CLEARANCE ONLY AND SHALL NOT INCLUDE THE WALK TIME.	私
4.	ALL SIGNAL ASSEMBLIES, PEDESTRIAN SIGNALS, PEDESTRIAN PUSH BUTTONS, CABINETS, AND	
	FITTINGS AT THE INTERSECTION SHALL COMPLY WITH THE CITY OF ALBUQUERQUE TYPE AND COLOR FINISH REQUIREMENTS.	+ i
5.	ALL PULL BOXES SHALL BE REINFORCED POLYMER MORTAR HEAVY DUTY TYPE WITH REINFORCED	
	POLYMER MORTAR HEAVY DUTY COVERS. CONCRETE COVERS, STEEL COVERS, AND CONCRETE PULL BOXES WILL NOT BE ACCEPTABLE.	+ ; *
6.	ALL BACKPLATES SHALL BE LOUVERED.	
7.	TYPE III STANDARDS AT THE INTERSECTION SHALL HAVE 40' CAMERA MOUNTING HEIGHTS AND 10' ARMS.	4
	TRAFFIC SIGNAL INCIDENTAL ITEMS	Ŧ
1.	REMOVAL OF EXISTING PULL BOXES, CONDUITS, OR OTHER SIGNAL AND LIGHTING EQUIPMENT NOT SPECIFICALLY ENUMERATED AS BID ITEMS FOR INSTALLATION OF NEW SIGNAL AND LIGHTING	
2.	EQUIPMENT. CABLE TESTING AND DIAGRAMS.	
3.	BORING, DRILLING, PUSHING, AND TRENCHING, INCLUDING REMOVAL AND REPLACEMENT OF PAVEMENT, SIDEWALKS, DRIVE PADS, VALLEY GUTTERS, WHEELCHAIR RAMPS, CURB & GUTTER, AND	
4	LANDSCAPING (INCLUDING SPRINKLERS) FOR INSTALLATION OF PULL BOXES, CONDUITS, AND SIGNAL FOUNDATIONS, EXCEPT AS NOTED ON THE PLANS. LOCATION OF UTILITY LINES INCLUDING EXPLORATORY TRENCHING AND EXPOSING OF GAS LINES	SC
	WHEN BORING.	
5.	DESIGN, MATERIALS, INSTALLATION AND REMOVAL OF SAFETY BARRIER FOR SHIELDING EQUIPMENT OR MATERIAL.	*
	APPRISING PUBLIC THROUGH THE LOCAL NEWS MEDIA.	
7.	REMOVAL, SALVAGE, AND TRANSPORTATION OF EXISTING EQUIPMENT (INCLUDING SIGNS) TO THE CITY TRAFFIC ENGINEERING OPERATIONS YARD, OR HAULING OF WASTE MATERIALS TO THE CITY LANDFILL, AS APPROPRIATE.	
100	LEAN FILL FOR CONDUIT TRENCHES.	
1000	PULL BOX ADJUSTMENTS TO GRADE. OFF-DUTY POLICE OFFICER FOR TRAFFIC CONTROL	
	REMOVAL AND REPLACEMENT IN KIND OR BETTER OF LANDSCAPING INCLUDING SPRINKLERS, FOR	
	INSTALLATION OF PULL BOXES, CONDUITS, AND SIGNAL AND LIGHTING FOUNDATIONS. CONDUIT TRACE WIRE	
1.000		

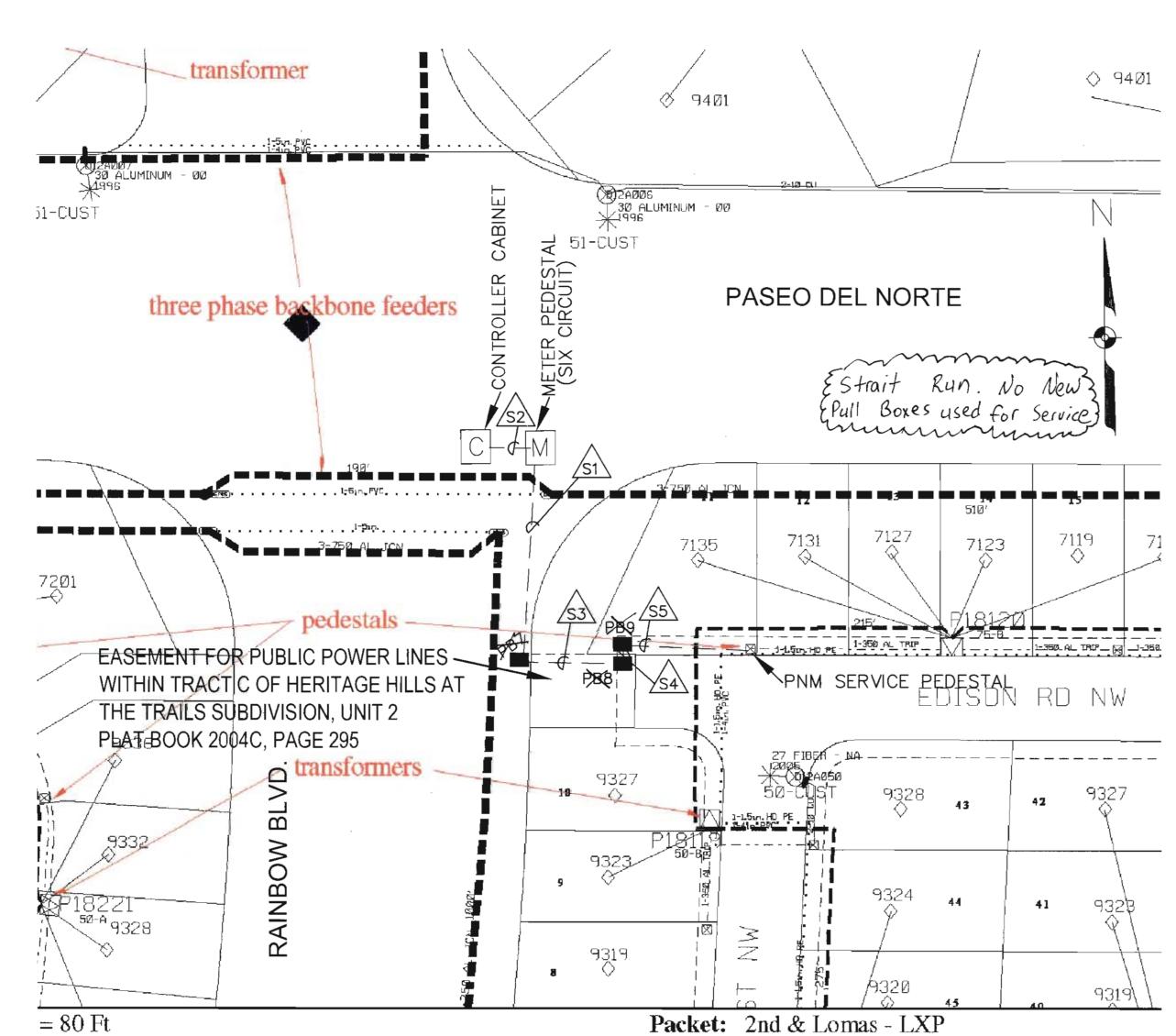
COMPLETE. THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIALS REQUIRED BY TH PROVISIONS SERIALS (STANDARD DETAILS), SUPPLEMENTAL SPECIFICATIONS, OR THE STANDARD SPECIFICATIONS



#### **RECORD DRAWINGS**

SIGNAL	LEGEND	4 TION		DATE	DATE	DATE	a tr	INFORMATION	Dale.	
EXISTING	ITEM	INFORMA TION		9	0	0	9	IF ORA	9	
	PULL BOX	K						AN W		
	SERVICE POLE	BUIL	CT09		ACE BY	RIPCATION BY	0.64	7-171	48 U3	
	METER PEDESTAL	AS	CON FRACTOR	AKED B	SPECTO CCEPTAN	ERIFICAT	DRAVINGS CORPECTED BY	MICRO	RECORDED	0
	CONTROLLER CABINET		-	\$ 11	AC N	14	50	*	3	ON
	CONDUIT RUN (SIGNALS)		INTERSECTION	N.W.	IN THE					
	CONDUIT RUN (INTERCONNECT)	5	THE INTE	NURTE	CURB	ND OF	2003"			
	TRAFFIC SIGNAL PEDESTAL POLE	MARKS	AT TH		HEADER	TURN ISLAND	5-89 20	D 8.3		
	CONDUIT RUN NUMBER (SIGNAL)	BENCH M	LOCATED	AND PASED DEL		VTRUL TUR	AMPED "5-	32.503 NAD	76.915	9.326
	CONDUIT RUN NUMBER (POWER SERVICE)	B	N 5-89 IS	SE BLVD.	A DON IS	N.W. TRAFFIC CONTROL T	ECTION ST	ELEV. = 5432.303	NG=15244	G=1497669 326
	CONDUIT RUN NUMBER (INTERCONNECT)		STATIO	TE UNIVER	THE ST	N.W. T	INTERS	DATUM	NOR TH	EASTING=
	CONDUIT RUN NUMBER (WARNING BEACON)	AA TION	S	DA						
	TYPE II STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACKPLATE, AND OPTICAL DETECTOR	Y INFORMATION	FIELD NOTE	3-						
	TYPE III STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACKPLATE, OPTICAL DETECTOR, LUNIMAIRE, AND CAMERA	SUPVE	FIE	NO.						
	PEDESTRIAN PUSH BUTTON (MOUNTED TO SIDE OF POLE WHERE INDICATED)	S SEAL		1	1000	NA/O	0 8	MELAN	E.	01
	PEDESTRIAN SIGNAL (MOUNTED TO SIDE OF POLE WHERE INDICATED)	ENGINEER'S			E		Z (13293	NAX A	( Allowed a	Hp-
	SPLICE CABINET	E					1	3	-	_
	TRAFFIC MANHOLE					BY				
	VIDEO CAMERA								10/2010	10/2010
EN CE BA CC CC DE HE KN TH INF CO ER	THE UNDERSIGNED, A REGISTERED PROFESSIONAL IGINEER IN THE STATE OF NEW MEXICO, DO HEREBY ERTIFY THAT THE INDICATED RECORD DRAWINGS ARE ASED UPON INFORMATION PROVIDED BY THE DNSTRUCTION CONTRACTOR IN THE FORM OF RED-LINED DNSTRUCTION DRAWING MARKUPS TO THE ORIGINAL ESIGN DRAWINGS. THE TRANSFER OF INFORMATION REIN IS TRUE AND CORRECT TO THE BEST OF MY IOWLEDGE AND BELIEF. HOWEVER, I HAVE NOT VERIFIED IE ACCURACY AND/OR COMPLETENESS OF THE FORMATION PROVIDED BY THE CONSTRUCTION DNTRACTOR AND SHALL NOT BE RESPONSIBLE FOR RORS OR OMISSIONS THAT MAY BE INCORPORATED AS A					REMARKS	REVISIONS	DESIGN		DATE N CATE 1
OT	SULT OF ERRONEOUS INFORMATION PROVIDED BY HERS. ALL INFORMATION INCLUDING VERTICAL AND DRIZONTAL DIMENSIONS SHOULD BE FIELD VERIFIED								K.A.	8 8
	KIOR TO USE ON FUTURE PROJECTS. Karen Brulin 09/12/11					ATE			84	2.00
NA	ME DATE	-	-			0.0			OESKIMED	DRAWN BU
	FINAL SUBMITTAL					ž			S	a f
	DEPARTMENT OF MUNICIPAL I ENGINEERING DIVISI	DEVEL	OPA	MEN	(T					
	RAINBOW BLVD. SIG	<b>SNAL</b>	PI	A	NEN	D				
ing, LLC	Servery Review Comparishee APPROVED NOV 2 9 2010 DESIGN REVIEW COMMITTEE	Uprate	#	i thy					ling.	/ 3e.
	738486 Zone Map B-	-	2)	tee!		6		37		10





#### POWER SERVICE LOCATION (NOT TO SCALE)

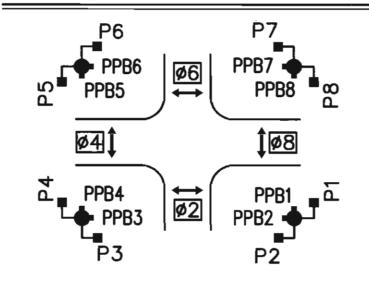
NOTE: PORTIONS OF CONDUIT RUNS S3, S4, AND S5 ARE LOCATED IN UTILITY EASEMENTS ON PRIVATE PROPERTY. THE CONTRACTOR SHALL CONTACT THE HOMEOWNER PRIOR TO WORK IN THESE AREAS AND INFORM HIM/HER OF THE WORK TO BE DONE. THE CONTRACTOR SHALL EXERCISE CAUTION IN PERFORMING THE WORK AND SHALL MINIMIZE DISTURBANCE TO PRIVATE PROPERTY, INCLUDING LANDSCAPING. DISTURBED AREAS SHALL BE REPLACED AS THEY WERE AT THE EXPENSE OF THE CONTRACTOR. THIS SHALL BE INCIDENTAL TO THE ITEM FOR RIGID ELECTRICAL CONDUIT. Traffic Signal Facilities Easement

Doc#: 2010127700 Date: 12/14/10

#### BACK UP TIME SETTING

	<u>ø1</u>	<u>ø2</u>	<u>ø3</u>	<u>ø4</u>	<u>ø5</u>	<u>ø6</u>	<u>ø7</u>	<u>ø8</u>
MINIMUM INITIAL	10	15	10	10	10	15	10	10
VEHICLE EXTENSION	3	3	3	3	3	3	3	3
MAXIMUM 1	30	30	30	30	30	30	30	30
MAXIMUM 2	40	40	40	40	40	40	40	40
YELLOW CHANGE	4	4	4	4	4	4	4	4
RED CLEAR	2	2	2	2	2	2	2	2
WALK	0	7	0	7	0	7	0	7
PEDESTRIAN CLEAR	0	30	0	30	0	30	0	30
OPERATION	OFF	MIN	OFF	OFF	OFF	MIN	OFF	OFF
		RECALL				RECALL		

PEDESTRIAN SIGNAL & PUSHBUTTON IDENTIFICATION



		<u></u>						
			RING 1 - MULTI (				ONDUCTOR CABLE 20 2/	
CONDUCTOR NUMBER	BASE COLOR	TRACER	FUNCTION	FIEL	D CONNECTION 1/	FUNCTION	FIELD CONNECTION	
1	BLACK	-	SPARE	SPARE		SPARE	SPARE	
2	WHITE	-	SPARE	SPARE		SPARE	SPARE	
3	RED	-	SPARE	SPARE		SPARE	SPARE	
4	GREEN	-	PHASE 1 GREEN	GREEN / 3M2	ARROW	PHASE 5 GREEN	GREEN ARROW	
5	ORANGE	-	PHASE 1 YELLOW	YELLOW 3M2	ARROW	PHASE 5 YELLOW	YELLOW ARROW	
6	BLUE	-	SPARE	SPARE		SPARE	SPARE	
7	WHITE	BLACK	SPARE	SPARE		SPARE	SPARE	
8	RED	BLACK	PHASE 2 RED	RED BAL		PHASE 6 RED	RED BALL 3M1, 3M2, 3A	
9	GREEN	BLACK	PHASE 2 GREEN	GREEN E	BALL	PHASE 6 GREEN	GREEN BALL 3M1, 3M2, 3A	
10	ORANGE	BLACK	PHASE 2 YELLOW	YELLOW	BALL	PHASE 6 YELLOW	YELLOW BALL 3M1, 3M2, 3A	
11	BLUE	BLACK	PHASE 2 WALK		NAN WALK	PHASE 6 WALK	PEDESTRIAN WALK P6, P7	
12	BLACK	WHITE	PHASE 2 DON'T WALK		RIAN DON'T WALK	PHASE 6 DON'T WALK		
13	RED	WHITE	SPARE	SPARE		SPARE	SPARE	
14	GREEN	WHITE	PHASE 3 GREEN	GREEN / 4A, 4M2		PHASE 7 GREEN	GREEN ARROW	
15	BLUE	WHITE	PHASE 3 YELLOW	YELLOW 4A, 4M2	ARROW	PHASE 7 YELLOW	YELLOW ARROW	
16	BLACK	RED	PHASE 4 RED	RED BAL		PHASE 8 RED	RED BALL 4A, 4B, 4M1, 4M2	
17	WHITE	RED	PHASE 4 GREEN	GREEN E		PHASE 8 GREEN	GREEN BALL 4A, 4B, 4M1, 4M2	
18	ORANGE	RED	PHASE 4 YELLOW	YELLOW		PHASE 8 YELLOW	YELLOW BALL 4A, 4B, 4M1, 4M2	
19	BLUE	RED	PHASE 4 WALK		RIAN WALK	PHASE 8 WALK	PEDESTRIAN WALK P1, P8	
20	RED	GREEN	PHASE 4 DON'T WALK	•	RIAN DON'T WALK	PHASE 8 DON'T WALK		
			1	, , , , , , , , , , , , , , , , ,		1	<u></u>	
		FUNC	TION CHART	- 24 \	VOLT CIRCU	T 3⁄	7	
CONDUC	TOR	RING 1-	MULTI CONDUCTOR	CABLE 5	RING 2-MULTI	CONDUCTOR CABLE 5	1	
NUMBER	BASE COLOR	FUNCTION	FIELD CONNEC	TION	FUNCTION	FIELD CONNECTION	1	
	COLUR					SPARE		

PPB1, PPB6, PPB7, PPB8

TI TLE:

Asign Review Committee

NOV 2 9 2010

DESIGN REVIEW COMMITTEE

City Project No.

SPARE

PPB6 & PPB7

PPB1 & PPB8

		FUNCTION	I CHART – 24 V	OLT CIRCU
CONDUC	TOR	RING 1-MULTI	CONDUCTOR CABLE 5	RING 2-MULTI
NUMBER	BASE COLOR	FUNCTION	FIELD CONNECTION	FUNCTION
1	BLACK	PHASE 2 PPB	PPB2 & PPB3	SPARE
2	WHITE	COMMON	PPB2, PPB3, PPB4, PPB5	COMMON
3	RED	PHASE 4 PPB	PPB4 & PPB5	SPARE
4	GREEN	SPARE	SPARE	PHASE 6 PPB
5	ORANGE	SPARE	SPARE	PHASE 8 PPB

#### NOTES:

Karen Bonlin

NAME

1/ IDENTIFY CONDUCTORS LISTED AS "115 VOLTS".

2/ WRAP RING 2 CABLE AT EACH SPLICE POINT WITH COLORED ELECTRICAL TAPE. THE IDENTIFICATION MARKING SHALL BE PROVIDED ON EACH RING 2 CABLE AT EACH SPLICE AND LOCATED 6" BACK FROM THE END.

3/ IDENTIFY CONDUCTORS LISTED AS "PPB - LOW VOLTAGE" AT EACH SPLICE POINT. FIVE (5) CONDUCTOR CABLE SHALL BE 24 VOLTS AND USED FOR PUSH BUTTONS ONLY.

09/12/11

/ DATE

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.



# . ∢ 0 N B /2010 /2010 01010 DATE

EMARKS SYONS SIGN

DATE

N N

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

Of

8

10

Sheet

NED VN

**RECORD DRAWINGS** 

Constructed under Work Order Project No. 800832

Zone Map No. **B—9** 

FINAL SUBMITTAL

City Engineer Approval

NOV 29 2010

CITY ENGINEER

738486

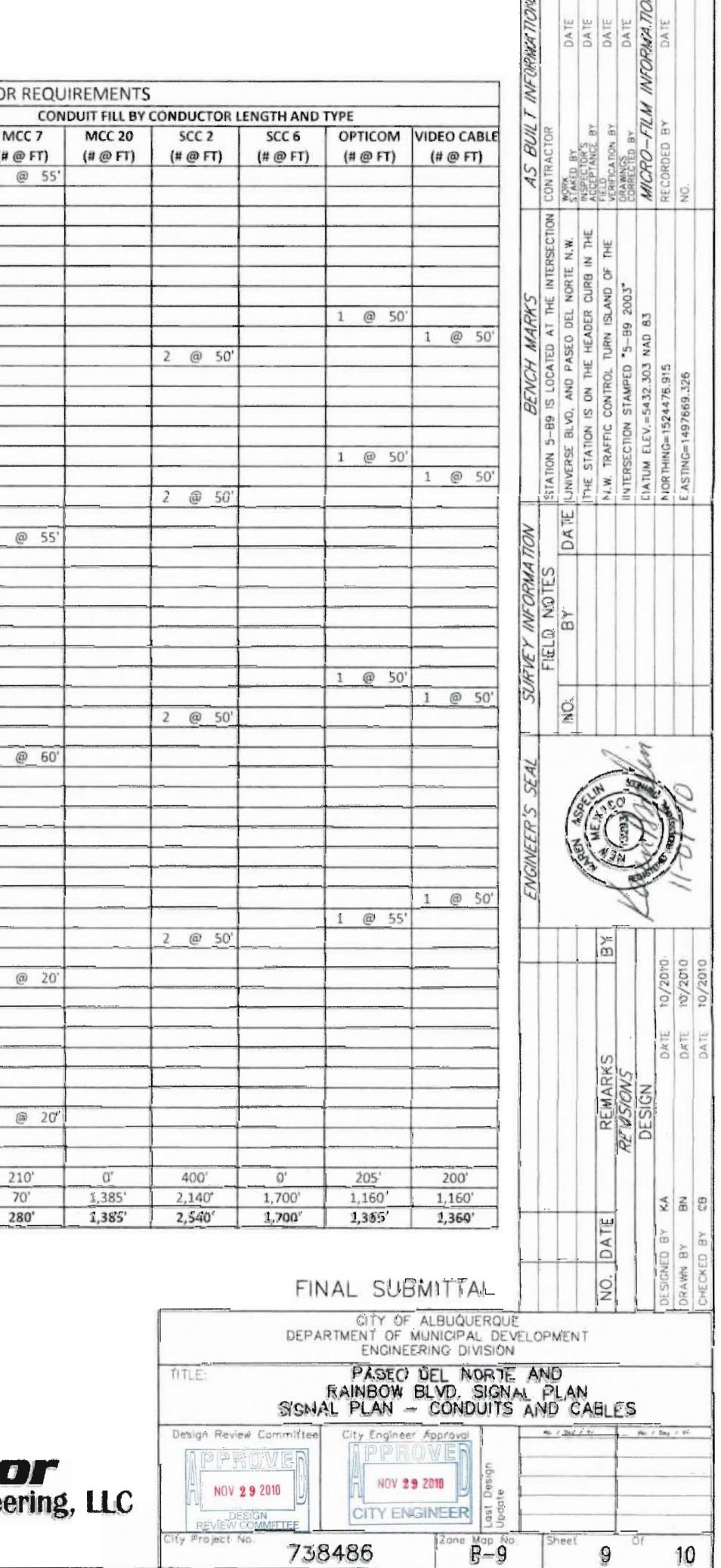
CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION

PASEO DEL NORTE AND RAINBOW BLVD. SIGNAL PLAN SIGNAL PLAN – FUNCTION CHARTS

				C	ONDU	TAND	CONDUCTOR	REQU	IREME	NTS		• • · · ·										CONDUIT AN	D CONDU	ICTOR
CONDUIT	ENGTH,	SIZE &	TYPE				CONDUIT FILL	BY CON	DUCTOR	LENG	GTH AND	TYPE				CONDU	JIT LENG	GTH, SI	ZE & 1	YPE				
					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CC 5	MCC 7		C 20		SCC 2		SCC 6*	OPTICOM	VIDEO CABLE			E/LENG	-	_		LOOP CABLE	MCC 5	M
RUN ID	3"	4"	TYPE	REMARKS		PFT)	(#@FT)		9 FT)	(	(#@FT)		(#@FT)	(# @ FT)	(#@FT)	RUN ID	2"	3"	4"	TYPE	and the second se	(#@FT)	(#@FT)	(# @
1	80'		REC	PB1 TO PB2	1 (	@ 85'		2	@ 85'	2	@ 8	5 2	@ 85'			MA1		-	-	-	BASE TO 1M2			1 1
2	80'		REC	PB1 TO PB2	ļ			·			-	-		2 @ 8	5' Z @ 85'		<u> </u>		+	+	BASE TO 1M1		1 @ 45	
3	90'		REC	PB2 TO PB3	1 (	@ 95'		2	@ 95'	2	@ 9	5 2	@ 95'	tar z z szszanaguti szynet					-	1	BASE TO 1A		1 @ 20	
4	90'		REC	PB2 TO PB3	B + it = + Alter an addres a							-		2 @ 9	5' 2 @ 95'			-	-		BASE TO P1		1 @ 20	4
5	80'		REC	PB3 TO PB4	1 (	@ 85'		2	@ 85'	2	@ 8	5 2	@ 85'		-						BASE TO PPB1	1 @ 10'		
6	80'		REC	PB3 TO PB4								_		1 @ 8	5' 1 @ 85'	- Louise v.			-		BASE TO P2		1 @ 20	1
7	-EXIST	ING-	REC	PMPB4 TO PMPB5	1 (	@ 85'		2	@ 85'			2	@ 85'								BASE TO PPB2	1 @ 10'		
8	EXIST	ING-	REC	№РВ4 ТО №РВ5				1			EMPTY					39		1	1		BASE TO OPT-EB	1		-
9	-EXIST	ING -	REC	PXPB5 TO PXPB6	1 (	@ 55'		2	@ 55'			2	@ 55'				L	1			BASE TO CAM-EB			
10	-EXIST	ING-	REC	KKPB5 TO KKPB6							EMPTY							-	1		BASE TO LUM1			
11	70'		REC	₽¥PB6 TO PB1	1 (	@ 75'		2	@ 75'	2	@ 7	5' 2	@ 75'											
12	70'		REC	PB6 TO PB1										1 @ 7	5' 1 @ 75'	MA2					BASE TO 2M2		1 @ 55	'
13	30'		REC	PB1 TO MA1	1 0	@ 35'		1	@ 35'	2	@ 3	5' 2	@ 35'								BASE TO 2M1		1 @ 45	'
14	30'		REC	PB1 TO MA1										1 @ 3	5' 1 @ 35'						BASE TO ZA		1 @ 20	/
15	30'		REC	PB2 TO PP1			1 @ 35'		a antiques reproduction of the distribution	And the second sec		2	@ 35'								BASE TO OPT-SB			
16	30'		REC	PB3 TO PP2	1 (	@ 35'		1	@ 35'			2	@ 35'		196 M 1999 C. 24 (2007)						BASE TO CAM-SB			T
17	30'		REC	PB3 TO MA2		@ 35'		1	@ 35'	2	@ 3	5' 2	@ 35'				1	1		1	BASE TO LUM2	1		
18	30'		REC	PB3 TO MA2							700 16 11 C 19 200 (11 - 11		<b></b>	1 @ 3	5' 1 @ 35'		1		-	1		1		
19	30'		REC	PB4 TO MA3	1 (	@ 35'		1	@ 35'	2	@ 3	5' 2	@ 35'			MA3	-	1	+	1	BASE TO 3M2		Tooland 2000 Tool	1 (
20	30'	E	REC	PB4 TO MA3				+	100 00 100 000 100	-	10 m 11 m			1 @ 3	5' 1 @ 35'		+	1	1	and the second second	BASE TO 3M1	1	1 @ 45'	
21	30'		REC	PKPB6 TO MA4	1	@ 35'		1	@ 35'	2	@ 3	5' 2	@ 35'					1	1	1	BASE TO 3A	++	1 @ 20'	terini di seconda da s
22	30'		REC	BXPB6 TO MA4	-	e			6 33	-	0.0		6	1 @ 3	5' 1 @ 35'			+	+	-	BASE TO P5		1 @ 20'	
23	30'		REC	KPB5 TO PP3			1 @ 35'				an de metros addas e o carrano d	2	@ 35'					1	+	-	BASE TO PPB5	1 @ 10'	1 @ 20	1
24	100'		REC	MH1 TO PB1	1	@ 105'	*	2	@ 105'	2	@ 10	15' 2	@ 105'					+	-		BASE TO P6	1 @ 10	1 @ 20'	
24	100		REC	MH1 TO PB1	-	e 105	weine Konnellingen im State in	-	e 105	-	e 11		<u>e</u> 103	4 @ 10	5' 4 @ 105'		-	+		-	BASE TO PB6	1 @ 10'	1 @ 20	+
	15'	<u> </u>	REC	CC TO MH1	1	@ 20'		2	@ 20'	2	@ 2	0' 2	@ 20'	4 6 1	10 4 @ 100			4 <u></u> -	+	+	BASE TO OPT-WB			+
26			-		1 (	<u>w</u> 20	8	2	e 20	4	<u></u>		<u>w</u> 20	4 @ 2	0' 4 @ 20'			+	+	-	the second se			+
27	15'		REC	CC TO MH1									nataria a state da para tara atti parana da da da	- @ z	0 4 @ 20		+		+		BASE TO CAM-WB		and the state of t	+
64		150	REC	ANETEO 70 007		and the second second	·			2	0 11							+		+	BASE TO LUM3	1		
S1		150'	REC	METER TO PB7				<u> </u>	and the second	3	@ 15						<u> </u>	+	+	+		+		+
S2		40'	REC	METER TO CC	<u> </u>					3	@ 4					MA4		+			BASE TO 4M2			1 0
\$3		35'	REC	PB7 TO PB8						3	@ 4								-		BASE TO 4M1		1 @ 50'	
\$4		10'	REC	PB8 TO PB9						3	and the second s	5'							-	1	BASE TO 4A		1 @ 20	-
S5		50'	REC	PB9 TO ELECTRIC SERVICE	<u> </u>		a and a second sec		10000 000000 DE1100100 00-11	3	@ 5	5'					1		1	1	BASE TO P7		1 @ 20	
			REC						or	L			····				-	-	-		BASE TO PPB7	1 @ 10'		
			REC					-									1			-	BASE TO P8		1 @ 20	1
UBTOTALS	1,200'	285'			7	80'	70'	1,	385'		2,140'		1,700'	1,160'	1,160'			1			BASE TO PPB8	1 @ 10'		-
ONE SCC 6	SHALL I	BE GRE	EN (BO	ND) AND ONE SHALL BE W	HITE (N	EUTRAL	)														BASE TO CAM-NB			
																					BASE TO OPT-NB			
																					BASE TO LUM4			
																	1							
																PP1					BASE TO 2B			1 (
																PP2				1	BASE TO P3		1 @ 20'	1
																	1		1		BASE TO PPB3	1 @ 10'		1
																1		1	1		BASE TO P4		1 @ 20	1
																	1		1	1	BASE TO PPB4	1 @ 10'		1
																10		1	1	12103 - North Contraction				+
																PP3	1	and a strategy	+	-	BASE TO 4B	Target of an entry of the second seco		1 (
																				-		+		1
																	-	1	+	1		1		+
															SUBTOTAL, THIS TAB	E	0	0'	0			80'	480'	2
															DTAL, PREVIOUS TAB		0'	1,200	285	-		0'	780'	7
														3001				and the second division of the local divisio			······································			-
														1	TOT	art	19	1,200	285			80'	1,260	28

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. Karen Anlin 09/12/11 DATE

**Vector** Engineering, LLC



## **RECORD DRAWINGS**

