26-7246.85-08

SCANNED BY PLANNING

CONSTRUCTION PLANS FOR

LOMAS BOULEVARD / YALE BOULEVARD SIGNAL MODIFICATIONS

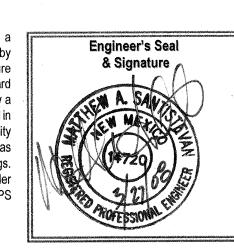
ALBUQUERQUE, NEW MEXICO

INDEX

Sheet No.	Sheet Title
and the state of t	TITLE SHEET
2	PROJECT LAYOUT & SURVEY CONTROL
3	GENERAL NOTES
4	PAVING PLAN - YALE BOULEVARD/ LOMAS BOULEVARD
5	PAVING TYPICAL SECTIONS
6	INTERSECTION GEOMETRY & GRADING PLAN - YALE BOULEVARD / LOMAS BOULEV
7	INTERSECTION GEOMETRY & GRADING PLAN - YALE BOULEVARD / LOMAS BOULEV
8	ADA CURB RAMP DETAILS - YALE BOULEVARD / LOMAS BOULEVARD
9	PERMANENT SIGNING & STRIPING PLAN
10	TRAFFIC SIGNAL NOTES & LEGEND
necessines de pour le partir de la company de la compa 11	TRAFFIC SIGNAL ESTIMATED QUANTITIES
12	TRAFFIC SIGNAL REMOVAL PLAN - YALE BOULEVARD / LOMAS BOULEVARD
13	EXISTING UTILITY PLAN - YALE BOULEVARD / LOMAS BOULEVARD
14	TRAFFIC SIGNAL PLAN - YALE BOULEVARD / LOMAS BOULEVARD
15	CABLES & CONDUITS - YALE BOULEVARD / LOMAS BOULEVARD
16	CABLES & CONDUITS - YALE BOULEVARD / LOMAS BOULEVARD
17	FUNCTIONS & DETECTORS - YALE BOULEVARD / LOMAS BOULEVARD
18	INTERSECTION LIGHTING PLAN - YALE BOULEVARD / LOMAS BOULEVARD
19	LIGHTING NOTES, LEGEND AND QUANTITIES
20	ROADWAY LIGHTING PLAN - YALE BOULEVARD / LOMAS BOULEVARD
21	INTERCONNECT PLAN
22	DRAINAGE PLAN
23	DRAINAGE PROFILES
24	DRAINAGE PROFILES

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Matthew A. Santistevan, of the firm of Bohannan Huston, Inc., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed by RMCI Inc. for the project (Lomas Boulevard/Yale Boulevard Signal Modifications, Sheets 1 to 24) has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction and survey information provided by Lenore R. Armijo, NMPS No. 15511.



I, LENORE ARMIJO, A DULY CERTIFIED, REGISTERED,

PROFESSIONAL LAND SURVEYOR IN NEW MEXICO, DO CERTIFY

THAT THE INFORMATION SHOWN ON THESE DRAWINGS WAS

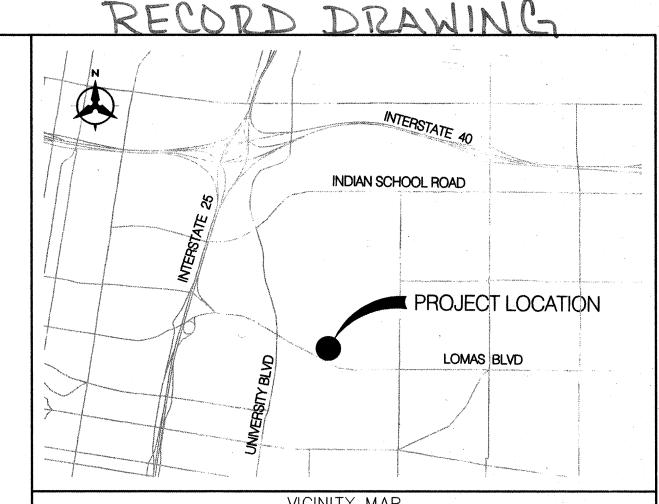
OBTAINED FROM FIELD CONSTRUCTION AND ASBUILT SURVEYS

PERFORMED UNDER MY SUPERVISION, THAT THE AS-BUILT

INFORMATION SHOWN WAS ADDED UNDER MY SUPERVISION, AND

THAT THIS AS-BUILT INFORMATION IS TRUE AND CORRECT TO

THE GEST OF MY KNOWLEDGE.



VICINITY MAP
ZONE MAP NO. J-15, J-16

NOTICE TO CONTRACTORS

AN EXCAVATION/CONSTRUCTION PERMIT TO BE OBTAINED BY THE CONTRACTOR AS PART OF THE NTRACT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT—OF—WAY.

2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT A OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #7 INCLUDING AMENDMENT NO. 1.

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

4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS, SHOULD A CONFLICT EXIST. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

5. WITHIN 10 CALENDAR DAYS OF NOTICE TO PROCEED, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULED. TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION, CONTRACTOR SHALL NOTIFY THE CONSTRUCTION COORDINATION ENGINEER (924–3400) PR OR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.

7. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO THE SAME LOCATION AS WAS EXISTING, OR

8. 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 ENSURE 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. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVEF TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.

9. CONTRACTOR SHALL RECORD 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 UNTIL ALL DATA HAS BEEN RECORDED.

10. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

11. CONTRACTOR SHALL COORDINATE WITH THE ABCWUA WATER UTILITY DIVISION (857-8200) SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING PUBLIC WATER OR SEWER UTILITIES. EXISTING VALVES TO BE OPERATED BY CITY PERSONNEL ONLY. CONTRACTOR SHALL CONTACT THE WATER SYSTEMS DIVISION SEVEN (7) WORKING DAYS PRIOR TO NEEDING VALVES TURNED ON OR OFF.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

X ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.

X BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.

X TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE ENGINEER.

SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.

IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.

ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

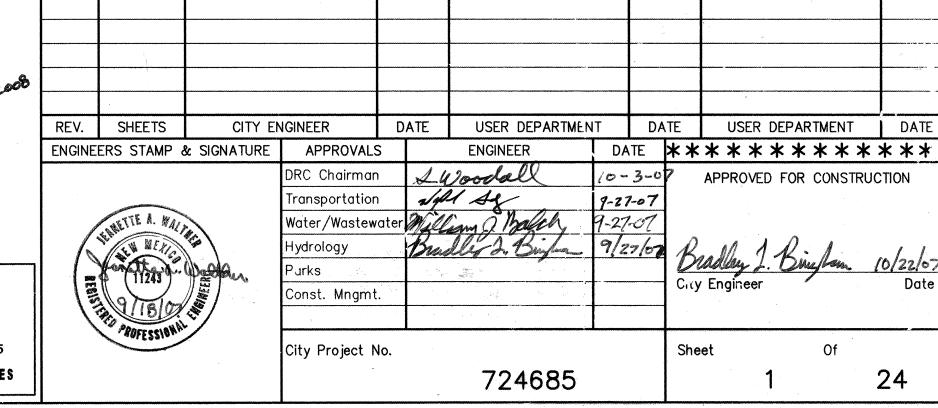
THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.



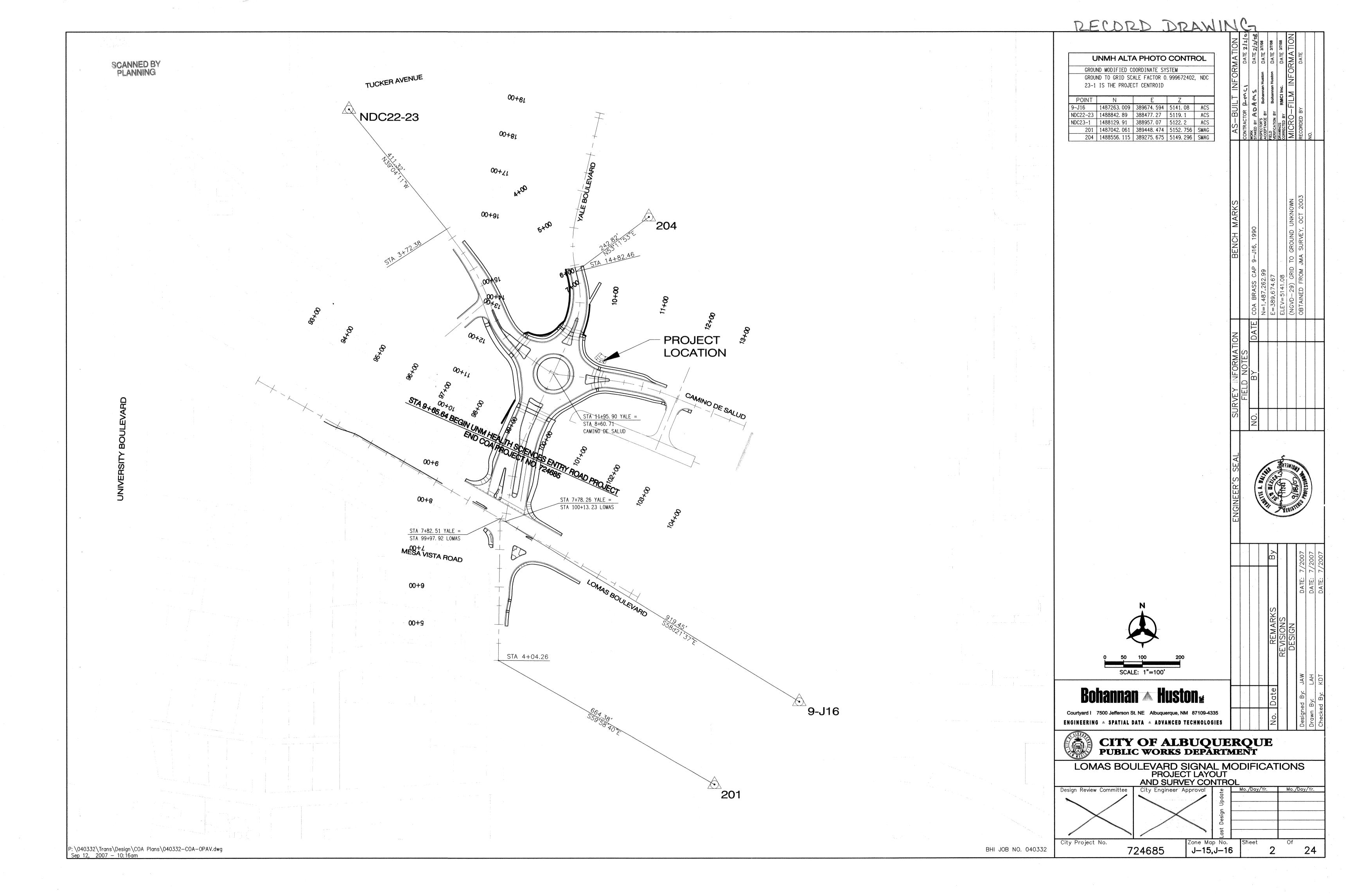
Bohannan A Hustons

Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

ENGINEERING A SPATIAL DATA A ADVANCED TECHNOLOGIES



P:\040332\Trans\Design\COA Plans\040332-COA-Title.dwg Sep 17, 2007 - 3:39pm



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. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
- 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 PERMANENT PAVEMENT MARKING AND TRAFFIC SIGNING SHALL BE FURNISHED BY THE CONTRACTOR PER PLAN.
- 11. THE CONTRACTOR SHALL FOLLOW THE CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN PROVIDED HEREIN. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF ALBUQUERQUE, PERMIT SECTION, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
- 12. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- 13. 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.
- 14. ALL SAWCUT PAVEMENT SHALL HAVE A UNIFORM EDGE AND BE SPRAYED WITH TACK.
- 15. WHEN ABUTTING NEW CURB AND GUTTER TO EXISTING PAVEMENT, A 1' WIDE SECTION OF EXISTING PAVEMENT ADJACENT TO THE CURB AND GUTTER SHALL BE SAWCUT, REMOVED, AND REPLACED AS PER THE STANDARD SPECIFICATIONS.
- 16. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, CURB & GUTTER, DRIVE PADS, 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.
- 17. FOR STORM DRAIN CONSTRUCTION, RCP PIPE JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.
- 18. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
- 19. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL CONSTRUCTION SIGNING UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE COA.
- 20. IF A PAVEMENT DROP-OFF IS CREATED DURING CONSTRUCTION, THE CONTRACTOR SHALL INITIATE PROTECTIVE MEASURES TO PREVENT ABRUPT PAVEMENT CHANGES. THE WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- 21. PAVEMENT DESIGN R-VALUE IS 43. THE CONTRACTOR SHALL CONFIRM THAT MATERIAL IN THE "SUBGRADE ZONE" (UPPER 2' BELOW FINISH SUBGRADE ELEVATION) IS EQUAL TO OR GREATER THAN THE DESIGN R-VALUE. SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH SECTION 301.

UTILITY CONTACTS

CITY OF ALBUQUERQUE WATER UTILITY AUTHORITY P.O. BOX 1293 ALBUQUERQUE, NM 87103 CONTACT: NANCY MUSINSKI OFFICE: 505-768-2729 FAX: 505-798-3629

PNM ELECTRIC CO. 4201 EDITH BLVD, NW ALBUQUERQUE, NM 87107 CONTACT: JOEL DAVIS OFFICE: 505-241-3336 FAX: 505-241-0559

PNM GAS CO. 4625 EDITH BLVD, NW ALBUQUERQUE, NM 87114 CONTACT: JOE DUNLOP OFFICE: 505-241-7771 FAX: 505-241-7753

MCI WORLDCOM 6001 MIDWAY PARK NE ALBUQUERQUE, NM 87109 CONTACT: ANDY DARNELL OFFICE: 505-346-4470 FAX: 505-348-8666

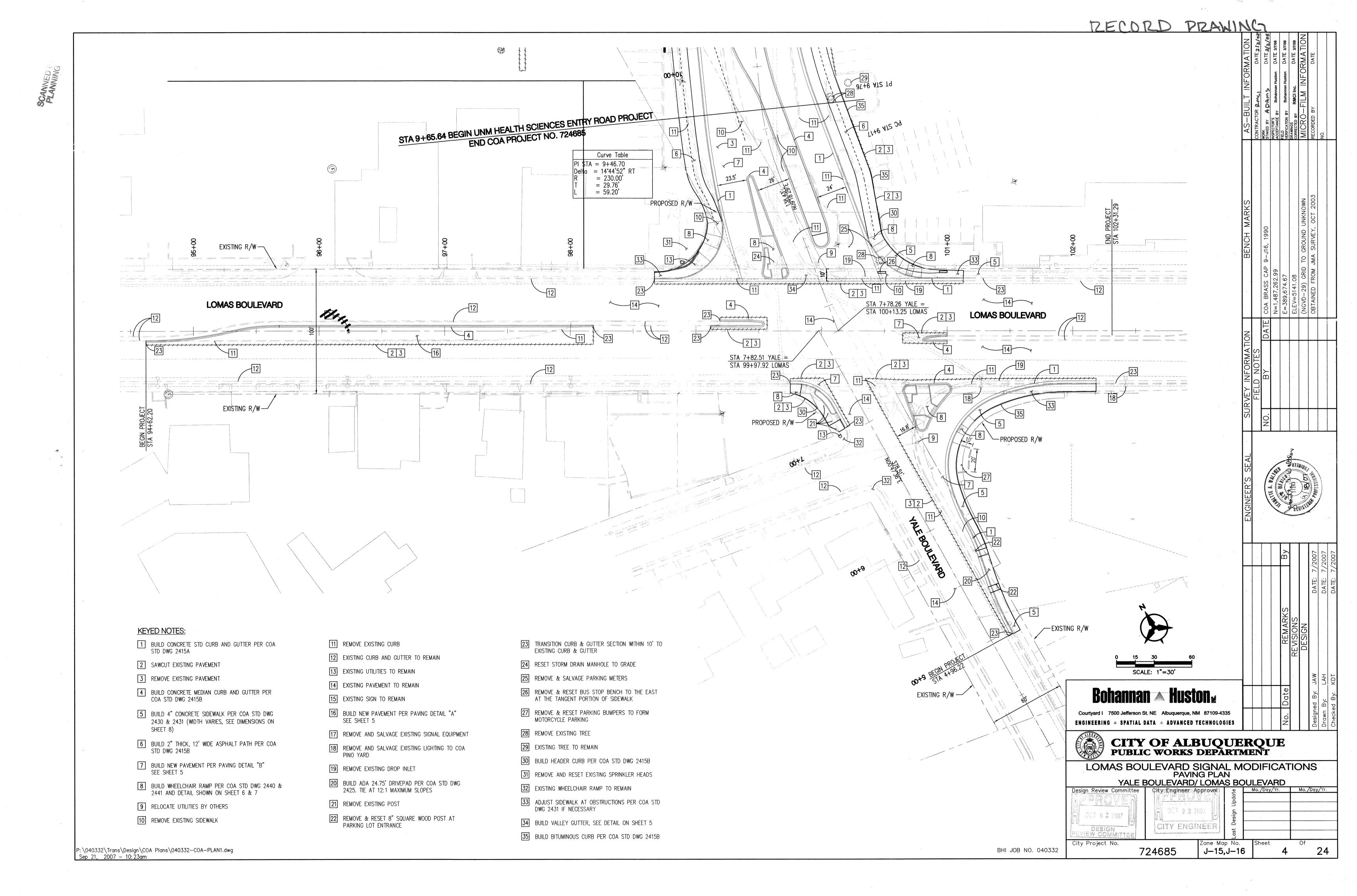
4611 MONTBEL PLACE NE ALBUQUERQUE, NM 87107 CONTACT: RITA ERICKSON OFFICE: 505-761-6235 FAX: 505-761-0599

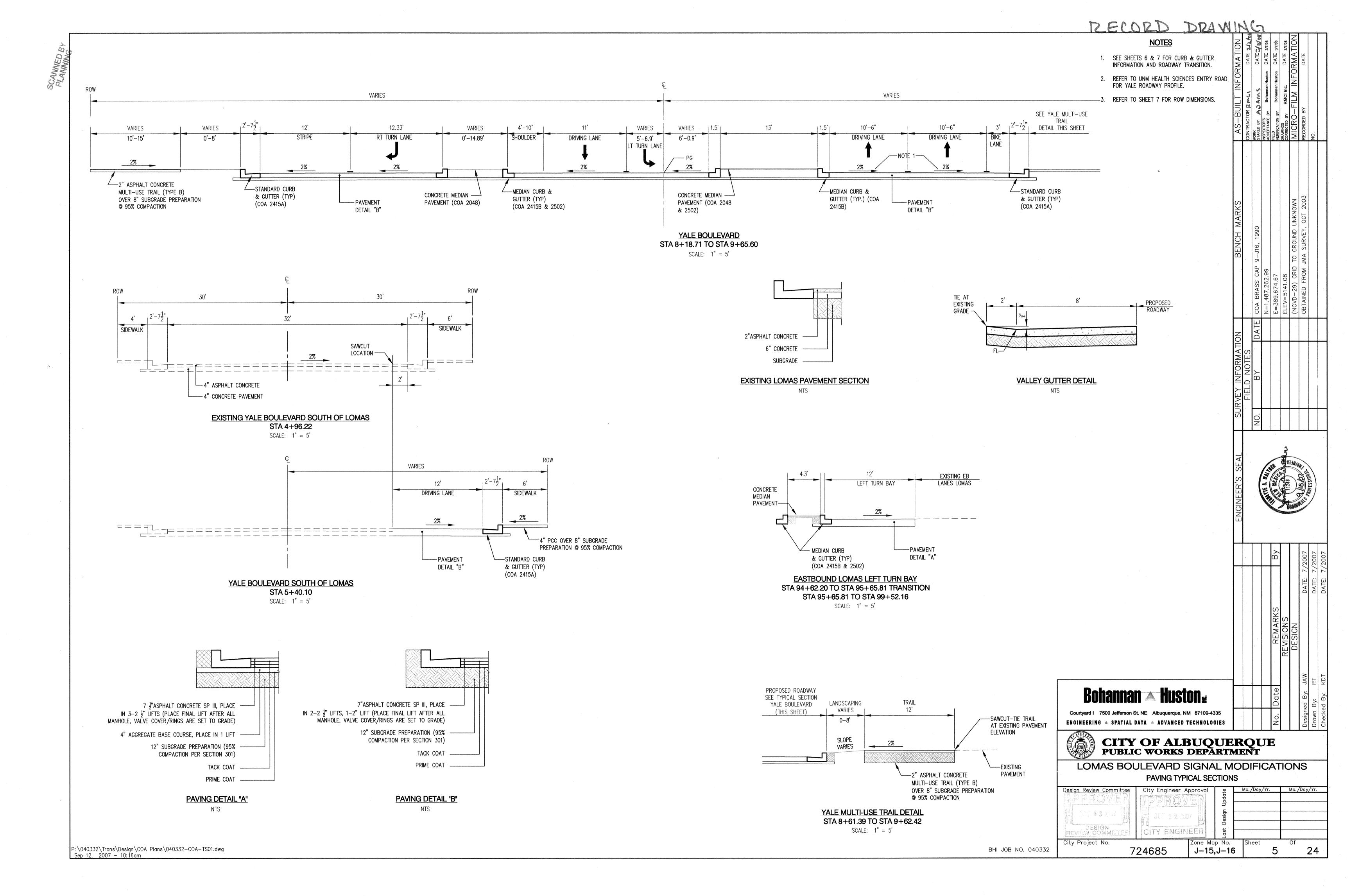
TIME WARNER TELECOM 3830 SINGER BLVD NE, SUITE 1000 ALBUQUERQUE, NM 87109 CONTACT: ROYAL HARRISON OFFICE: 505-938-7339 FAX: 505-938-7380

			, (INFORMATION DATE 2/2 /4	DATE 2/2/08	DATE 3/7/08	DATE 377/08	INFORMATION	DATE		
		W.	1	INFOR	Ş	Bohannan Huston DATE 3/7/08	RMCI Inc.	_M INFOF			
				AS-BUILT CONTRACTOR (2) MC)	BY ADAMS	INSPECTOR'S ACCEPTANCE BY Boh	-	느	RECORDED BY		-
				CONT	WORK STAKED BY	NSPEC ACCEPT FIELD	DRAWIN CORREC	MIC	RECO	NO.	
											* *
				MARKS				KNOWN	OCT 2003		
				핑	6, 1990			TO GROUND UNKNOWN	SURVEY, O(
				DEN BEN	CAP 9-J16,	2.99	80		FROM JMA S		
					COA BRASS	N=1,487,262.99 E-380,674,67	ELEV=5141.08	(NGVD-29) GRID	OBTAINED F		
				8	DATE	Z L	ı lu		0		Ì
				INFORMATION NOTES							-
			1.	SURVEY INF	ВҮ						
				SUR	NO.						
				SEAL			A Constitution				
		· •		ER'S SE		ANTE A. MALINE		SINE S	NO SOLUTION OF THE PARTY OF THE	Uresan	
				ENGINE	• \	E STATE OF THE PARTY OF THE PAR	No.	E BY S			
		er P				<u>~</u>			/2007	107	107
				,					DATE: 7/20		DATE: 7/2007
						0/10			Q		
						DEMADE	REVISIONS	DESIGN			-
							X		JAW	LAH	KDT
Bohannai Courtyard 1 7500 Jefferson St						, t	1		By:	By:	Checked By: K
Courtyard 7500 Jefferson St ENGINEERING A SPATIAL D						2			Designed	Drawn	Chect
CITY PUBLIC	OF AL	BUQU DEPAI	UE RTM	RC)[Ti	J E					
LOMAS BOL	JLEVARD	SIGNAI	_ M(OD	IFI	CA	TIC	N	S		

GENERAL NOTES

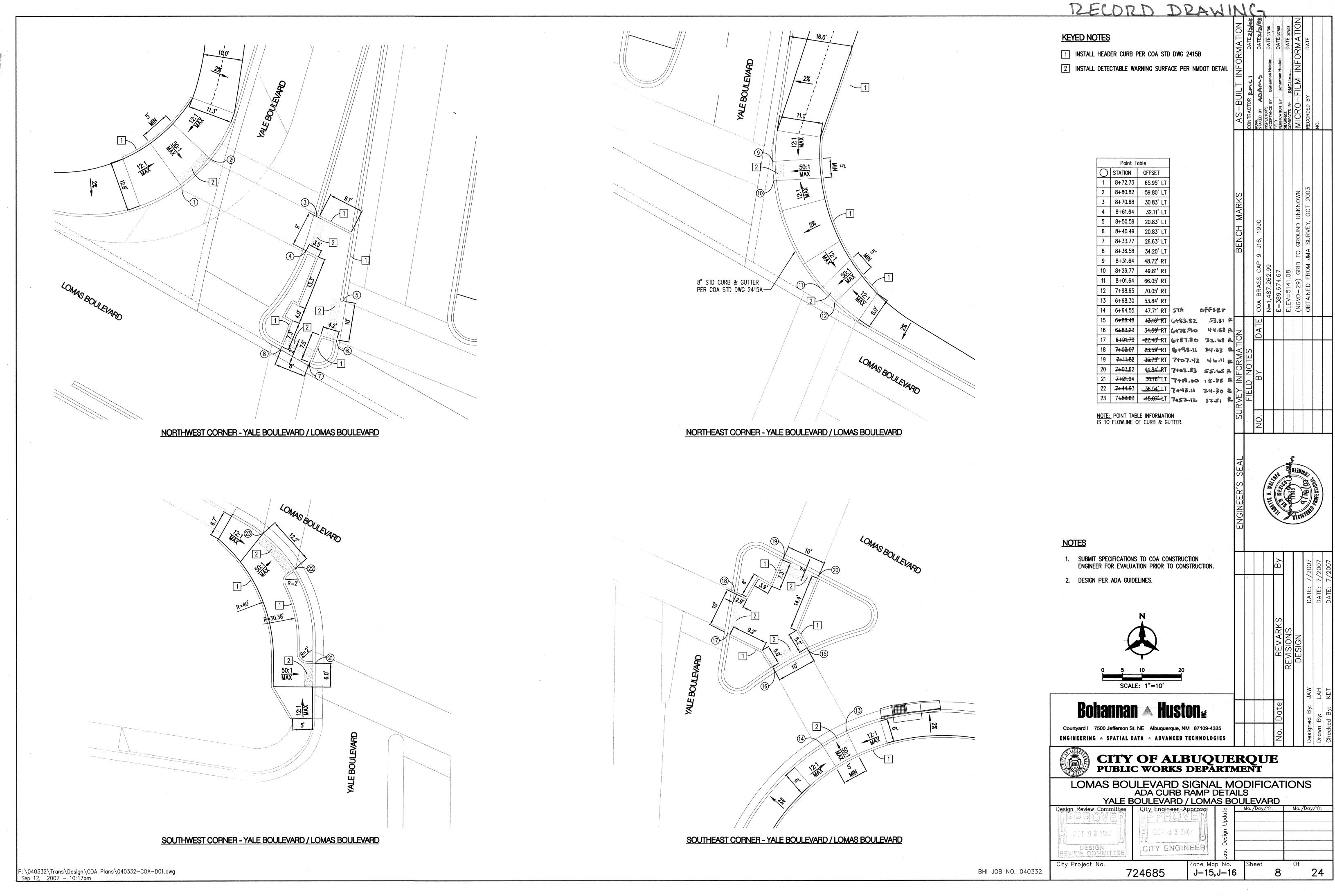
Design Review Committee	City Engineer A	pproval	te	Mo./Day/	Yr.	Mo./D	ay/Yr.
L MPPROVER	MPPRAV	/EN	pdate				
		<u> </u>					
OCT 0 3 2007	007 9 2 70		Design				
The state of the s	The control of the state of the state of the state of the control of the control of the state of		1				**************************************
ENTERNATION OF THE PARTY OF THE	GITY ENGIN	English H	Last				
City Project No.	195 	Zone Mar		Sheet		Of	
7	24685	J-15,	J-16		3		24





J-15,J-16

BHI JOB NO. 040332



SIGNAL NOTES:

- 1. 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'S TRAFFIC ENGINEERING OPERATIONS THIRD DRAFT SPECIFICATIONS (JUNE 1994).
- 2. LOCATIONS OF CONDUITS, FOUNDATIONS, METER PEDESTALS, CONTROL CABINETS, POLES, PULL BOXES, MANHOLES, AND SPLICE CABINETS 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 AMERICANS 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.
- 3. THE CONTRACTOR IS WARNED THAT EXISTING CONDUITS MAY CONTAIN AC POWER AND CAUTION SHALL BE EXERCISED IN INTERCEPTING OR INSTALLING CABLE IN EXISTING CONDUIT.
- 4. 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
- 5. SPLICING OF COMMUNICATIONS CABLE WILL NOT BE PERMITTED IN PULL BOXES. SPLICING OF COMMUNICATIONS CABLE (CONNECTIONS) WILL BE PERMITTED ONLY AT SPLICE CABINETS OR CONTROLLER CABINETS WITH SPLICE BARS. SPLICING OF TRAFFIC SIGNALS MCC WILL BE PERMITTED IN LARGE PULL BOXES INCLUDING LARGE MEDIAN PULL BOXES. SPLICING OF VIDEO DETECTION COAXIAL 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.
- 6. ALL VIDEO DETECTION COAXIAL AND POWER CABLES SHALL BE TAGGED AT THE CONTROL CABINET TO IDENTIFY EACH CABLE BY CAMERA NUMBER AND LOCATION. ALL OPTICAL DETECTOR CABLE SHALL BE TAGGED AT THE CONTROL CABINET TO IDENTIFY EACH BY DIRECTION AND LOCATION.
- 7. 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.
- 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. TRAFFIC ENGINEERING OPERATIONS PERSONNEL WILL ASSIST THE CONTRACTOR IN 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 TRAFFIC SIGNAL CONTROL DOOR IS OPENED.
- 9. THE CONTRACTOR SHALL NOTIFY PUBLIC SERVICE COMPANY 30 DAYS IN ADVANCE OF ANTICIPATED POWER SERVICE CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WITH PUBLIC SERVICE COMPANY TO ESTABLISH ELECTRICAL SERVICE IN THE CITY'S NAME. THE CONTRACTOR SHALL PAY THE LOCAL POWER COMPANY ALL COSTS TO PROVIDE ELECTRICAL SERVICE. THIS WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- 10. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING SIGNING AND DELIVER TO THE CITY TRAFFIC ENGINEERING YARDS (5501 PINO) WHEN TRAFFIC SIGNALS ARE PUT INTO OPERATION.
- 11. 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 . 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 NATIONAL ELECTRIC CODE.
- 14. THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS PERSONNEL WILL PROVIDE TRAFFIC SIGNAL TIMING PLANS AND WILL PROGRAM TRAFFIC SIGNAL CONTROLLERS.
- 15. EXISTING CONDUITS TO BE REMOVED OR ABANDONED SHALL HAVE ALL WIRING REMOVED.
- 16. EXISTING CONDUITS SHALL BE REPAIRED, ADJUSTED, OR REPLACED AS DIRECTED BY THE PROJECT MANAGER WHERE ELECTRICAL PILLBOXES OR TRAFFIC MANHOLES ARE INSTALLED OR REPLACED.
- 17. CONTRACTOR SHALL COIL EXCESS INTERCONNECT CABLE AT ALL NEW OR EXISTING TRAFFIC MANHOLES BETWEEN SPLICE CABINET OR CONTROL CABINETS WITH SPLICE BARS. IF MORE THAN ONE MANHOLE EXISTS BETWEEN SPLICE CABINETS OR CONTROL CABINETS WITH SPLICE BARS, THEN COILING IS ONLY REQUIRED AT ONE OF THE MANHOLES. THE FOLLOWING QUANTITIES OF COMMUNICATION CABLE SHALL BE COILED:
 - 12 PAIR 50 FT. 25 PAIR - 50 FT.
 - 50 PAIR 25 FT.
 - 75 PAIR 25 FT.
- 18. THE CONTRACTOR SHALL PROVIDE OFF-DUTY POLICE OFFICERS TO DIRECT TRAFFIC WHEN SIGNALS ARE TURNED OFF.
- 19. 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 UTILITY LINES INCLUDING EXPLORATORY TRENCHING WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- 20. THE CONTRACTOR SHALL VIDEO TAPE THE EXISTING TRAFFIC SIGNAL EQUIPMENT IN VHS FORMAT AND REVIEW THE TAPE WITH CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS PERSONNEL PRIOR TO BEGINNING ANY REMOVALS OF SIGNAL EQUIPMENT. THE TAPE SHALL BECOME THE PROPERTY OF THE CITY AND MAY BE USED TO RESOLVE ANY QUESTIONS RELATED TO THE ORIGINAL CONDITION AND QUALITY OF EXISTING EQUIPMENT. THE EXISTING TRAFFIC SIGNAL EQUIPMENT INCLUDING POLES, CONTROLLER CABINETS, CONFLICT MONITORS, AND DETECTORS SHALL BE DELIVERED TO THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING YARD ON PINO ROAD NE.

TRAFFIC SIGNAL EQUIPMENT REQUIREMENTS FOR LOMAS BLVD / YALE BLVD

- THIS PROJECT IS AN EXTENSION OF AN EXISTING SIGNAL SYSTEM. THEREFORE THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING: FOR THE INTERSECTION OF LOMAS BOULEVARD/YALE BOULEVARD.
 - A. ALL TRAFFIC SIGNAL CONTROLLERS SUPPLIED FOR THIS PROJECT SHALL BE AS DIRECTED BY THE COA.
 - B. ALL TRAFFIC SIGNAL CONTROLLER CABINETS SUPPLIED FOR THIS PROJECT SHALL BE AS DIRECTED BY THE COA.
- SPLICE CABINETS SHALL BE AS DETAILED ON THE PLANS. LOW VOLTAGE SPLICE BLOCKS SHALL BE 50 UNITS TO THE FOOT, WITH EACH SPLICE BLOCK CAPABLE OF HANDLING 25 PAIR CABLE (NUMBER OF SPLICE BLOCKS IN EACH CABINET CAPABLE OF HANDLING NUMBER OF CONDUCTORS SHOWN ON PLANS). SPLICE BLOCKS SHALL BE BELL SYSTEMS PART #66B3-50 OR APPROVED EQUAL. ALL COMMUNICATION CABLE PAIRS SHALL BE TERMINATED AT THE SPLICE BLOCK INCLUDING INACTIVE PAIRS.
- INTERCONNECT CABLES SHALL COMPLY WITH REA SPECIFICATION PE-22. INTERCONNECT CABLE SHALL CONTAIN THE NUMBER OF WIRE PAIRS SHOWN ON THE PLANS AND THE INDIVIDUAL CONDUCTORS SHALL BE 19 AWG SOLID.
- EMERGENCY VEHICLE PRE-EMPT EQUIPMENT SHALL BE 3M "OPTICOM" MODEL 562 OR LATEST MODEL PHASE SELECTORS MOUNTED ON 3M "OPTICOM" MODEL 560 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 511, ONE(1) CHANNEL, ONE(1) DIRECTION OR APPROVED EQUAL. OPTICAL DETECTOR CABLE SHALL BE 3M "OPTICOM" MODEL 138 OR EQUAL. OPTICAL EMITTERS SHALL BE 3M "OPTICOM" MODEL 592 WITH POWER SUPPLY, CABLE, AND SWITCHES, OR APPROVED EQUAL. A MANUFACTURERS REPRESENTATIVE SHALL ASSIST THE CONTRACTOR IN THE FEILD AS WORK PROGRESSES TO COMPLETE THE INSTALLATION OF ALL PRE-EMPTION EQUIPMENT AND ASSIST IN SETTING UP, TURNING ON, PROGRAMMING AND FIELD TESTING PRE-EMPTION EQUIPMENT INCLUDING EMITTERS TO INSURE THAT THE EQUIPMENT IS OPERATIONAL.
- THIS PROJECT INVOLVES THE INSTALLATION OF A VIDEO CAMERA VEHICLE DETECTION SYSTEM. THEREFORE THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:
 - LATEST COA APPROVED VEHICAL VIDEO DETECTION SYSTEM SUCH AS ECONOLITE SOLO PRO II, ITERIS VANTAGE PLUS, OR TRAFICOM VIDEO DETECTIONS UNIT, AND ALL NECESSARY CABLES, HARNESSES, MATERIALS, FITTINGS, AND MISCELLANEOUS COMPONENT NECESSARY TO PROVIDE A COMPLETE AND OPERATING SYSTEM AT ONE (1) SIGNALIZED INTERSECTION @ LOMAS BOULEVARD/YALE BOULEVARD.
 - B . ZOOM LENS VIDEO CAMERAS SHALL HAVE ZOOM LENSES.
 - COMPUTER SOFTWARE AND HARNESSES TO CONNECT AND OPERATE THE NEW
 - D. VIDEO POWER CABLE SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
- ALL SIGNAL INDICATORS AND PEDESTRIAN SIGNALS SHALL BE LED. AS APPROVED BY THE CITY. PEDESTRIAN SIGNAL SHALL BE COUNTDOWN MODEL AS APPROVED BY THE CITY.

TRAFFIC SIGNAL LEGEND

NEW	EXISTING	ITEM
		PULL BOX
•	\bigcirc	SERVICE POLE
M	M	METER PEDESTAL
	C	CONTROLLER CABINET
	AMERICAN MONOGOROUS ASSESSMENT WITH THE PROPERTY OF THE PROPER	CONDUIT RUN (SIGNALS)
Anapos secure capos secure secure baselo especial		CONDUIT RUN (LIGHTING)
		CONDUIT RUN (INTERCONNECT)
		LOOP DETECTOR
←●	$\!$	TRAFFIC SIGNAL PEDESTAL POLE
\triangle	X	CONDUIT RUN NUMBER (SIGNAL)
Ś	SX	CONDUIT RUN NUMBER (POWER SERVICE)
# 1	# 1	TYPE II STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACKPLATE, AND OPTICAL DETECTOR
* * **********************************	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	TYPE III STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACKPLATE, OPTICAL DETECTOR, LUNIMAIRE, AND CAMERA
•	С	PEDESTRIAN PUSH BUTTON (MOUNTED TO SIDE OF POLE WHERE INDICATED)
•	£\$\frac{1}{\chi_0}	PEDESTRIAN SIGNAL (MOUNTED TO SIDE OF POLE WHERE INDICATED)
SC	SC	SPLICE CABINET
•	\oslash	TRAFFIC MANHOLE
-		VIDEO CAMERA
★	·()	LIGHTING STANDARD WITH LUMINAIRE AS INDICATED
LC	LC	LIGHTING CONTROL CABINET

DEFINITIONS

1. "ENGINEER" — FOR THE PURPOSES OF THIS PROJECT, THE TERM "ENGINEER" IS SYNONYMOUS WITH THE TERM "PROJECT MANAGER".

	BE		DATE COA BRASS CAP 9-J1	N=1,487,262.99	E=389,674.67	ELEV=5141.08	(NGVD-29) GRID TO GI	OBTAINED FROM JMA S			
* .	NO		DATE								
	SURVEY INFORMATION	FIELD NOTES	ВҮ								
	INS	,	NO.			٠					
	ENGINEER'S SEAL					entrantina de la constanta de	Glav6				
					By			DATE: 7/2007	DATE: 7/2007	DATE: 7/2007	
•.					REMARKS	REVISIONS	DESIGN	,			
35					o. Date			signed By: PFS	IWN By: LAH	ecked By: KDT	

RECORD DRAWING

Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-433 ENGINEERING A SPATIAL DATA A ADVANCED TECHNOLOGIES

	CITY (OF AI WORK	BUQ S DEPA	UERQUE ARTMENT	,
--	--------	---------------	---------------	-------------------	---

LOMAS	BOULE	VARD	SIGNAL	MODIFI	CATIONS
	TRAFFIC	SIGNA	L NOTES	& LEGENI	D

Design Review Committee	City Engineer Approval	O)	Mo./Day/Yr.	Mo./Day/Yr
The state of the s	The second control of	pdate		
The second state as the second control of the second control of the second state and the second state as t	F 001 2 2 2007	. ⊃		
		Design		
The second secon	CITY ENGINEER			
REVIEW COMMITTEE	This is a fight which the desiration for all fight was the processing and the second desiration of the desiration of the second desiration of the	Last	٠	
City Project No.	Zone Ma	p No.	Sheet	. Of

P:\040332\Trans\Design\COA Plans\040332-COA-SGNT.dwg Sep 12, 2007 - 10:17am

BHI JOB NO. 040332

724685

J-15,J-16

	TRAFFIC SIGNAL EST	IMATED	QUAN'	TITIES			
		UNIT	SIGNAL	INTERSECTION LIGHTING	ROADWAY LIGHTING	INTERCONNECT	TOTAL
			YALE	YALE	YALE	YALE	TOTAL
0421.005	SERVICE RISER (SIGNAL), CIP	EACH	-	-	***	-	0
0421.010	METER PEDESTAL (SIGNAL), CIP	EACH	1		***	-	1
0422.001	TRAFFIC SIGNAL PEDESTAL POLE, 4 FOOT, CIP	EACH	2				2
0422.003	TRAFFIC SIGNAL PEDESTAL POLE, 13 FOOT, CIP	EACH	2	_		_	2
0422.004	TRAFFIC SIGNAL PEDESTAL POLE, 15 FOOT, CIP	EACH		-			5
0422.017	TRAFFIC SIGNAL MASTARM, 30' ARM, TYPE III, TROMBONE, CIP	EACH	1	-		_	1
0422.018	TRAFFIC SIGNAL MASTARM, 35' ARM, TYPE II, TROMBONE, CIP	EACH	2	•		-	2
0422.019	TRAFFIC SIGNAL MASTARM, 35' ARM, TYPE III, TROMBONE, CIP	EACH	1	ua		-	11
0422.101	TRAFFIC SIGNAL PEDESTAL POLE, REMOVE & SALVAGE, COMPL.	EACH	3	-		-	3
0422.110	TRAFFIC SIGNAL MASTARM, ANY SIZE, REMOVE & SALVAGE, COMPL.	EACH	3	***		-	3
)423.001	TRAFFIC SIGNAL FOUNDATION FOR PEDESTAL POLE, CIP	EACH	9	_			9
1423.002	TRAFFIC SIGNAL MASTARM FOUNDATION, CIP	EACH	4	_		-	4
423.003	TRAFFIC CONTROLLER FOUNDATION (TYPE M & P CABINETS), CIP	EACH	1		***	N	1
423.005	TRAFFIC SIGNAL FOUNDATION FOR SPLICE CABINET, CIP	EACH	***	•••	704	2	2
)423.101	TRAFFIC SIGNAL FOUNDATION MASTARM, REMOVE & DISPOSE, COMPL.	EACH	3			-	3
423.102	TRAFFIC SIGNAL FOUNDATION, FOR PEDESTAL POLE & SPLICE CABINET,	EACH	•••	-	•••	2	2
1400 400	REMOVE & DISPOSE, COMPL.	FACIL					4
)423.103)424.006	TRAFFIC CONTROLLER FOUNDATION REMOVE & DISPOSE, COMPL. ELECTRICAL CONDUIT, 2" INCLUDING TRENCH, BACKFILL,	EACH LIN FT	1 1110	220		50	1 1380
1424.000	PATCHING, PUSHING, BORING & JACKING, CIP	LIIVEI	1110			50	1300
424.011	ELECTRICAL CONDUIT, 3" INCLUDING TRENCH, BACKFILL,	LIN FT	1050			550	1600
	PATCHING, PUSHING, BORING & JACKING, CIP						
)425.002	ELECTRICAL PULL BOX, (STANDARD), CIP	EACH		3		-	3
)425.003	ELECTRICAL PULL BOX, (LARGE), CIP	EACH	11	-		2	13
425.012	SPLICE CABINET, GROUND MOUNT, LARGE, CIP	EACH		-		2	2
)425.020)425.110	TRAFFIC SIGNAL MANHOLE, CIP SPLICE CABINET, REMOVE & SALVAGE, CIP	EACH EACH	2		***	2	4
)425.110)425.101	ELECTRICAL PULL BOX, ANY TYPE, REMOVE AND DISPOSE, COMPL.	EACH	 8	1			9
7-12-0. 101	ELLOWING ALT GLE BOX / MATTER LANGUE / MED BIGT GGL, GGIM L.						
0426.001	SINGLE CONDUCTOR, #2, CIP	LIN FT	375	-			375
0426.004	SINGLE CONDUCTOR, #8, CIP	LIN FT	945	-		-	945
0426.005	SINGLE CONDUCTOR, #10, CIP	LIN FT		490			490
0426.010	MULTI-CONDUCTOR CABLE #5, CIP	LIN FT	3305	-		-	3305
0426.011 0426.014	MULTI-CONDUCTOR CABLE #7, CIP MULTI-CONDUCTOR CABLE #20, CIP	LIN FT	575 1890	-			575 1890
0426.020	COMMUNICATION CABLE, 6 PAIR, CIP	LIN FT	1090			50	50
0426.020	COMMUNICATION CABLE, 50 PAIR, CIP	LIN FT	-	-		650	650
0426.101	EXISTING WIRING, REMOVE & DISPOSE	LS					LS

0427.002	3 SECTION TRAFFIC SIGNAL ASSEMBLY, CIP	EACH	7		_	-	7
0427.005	5 SECTION TRAFFIC SIGNAL ASSEMBLY, CIP	EACH	10				10
0427.02X	PEDESTRIAN SIGNAL, LED	EACH	10	-			10
0427.031	3 SECTION BACKPLATE, CIP	EACH	6	-		NAT	6
)427.033)427.101	5 SECTION BACKPLATE, CIP TRAFFIC SIGNAL ASSEMBLY, ANY TYPE, REMOVE & SALVAGE, COMPL.	EACH EACH	2 11		wa	-	2 11
0427.101	PEDESTRIAN SIGNAL, ANY TYPE, REMOVE & SALVAGE, COMPL.	EACH		-		-	8

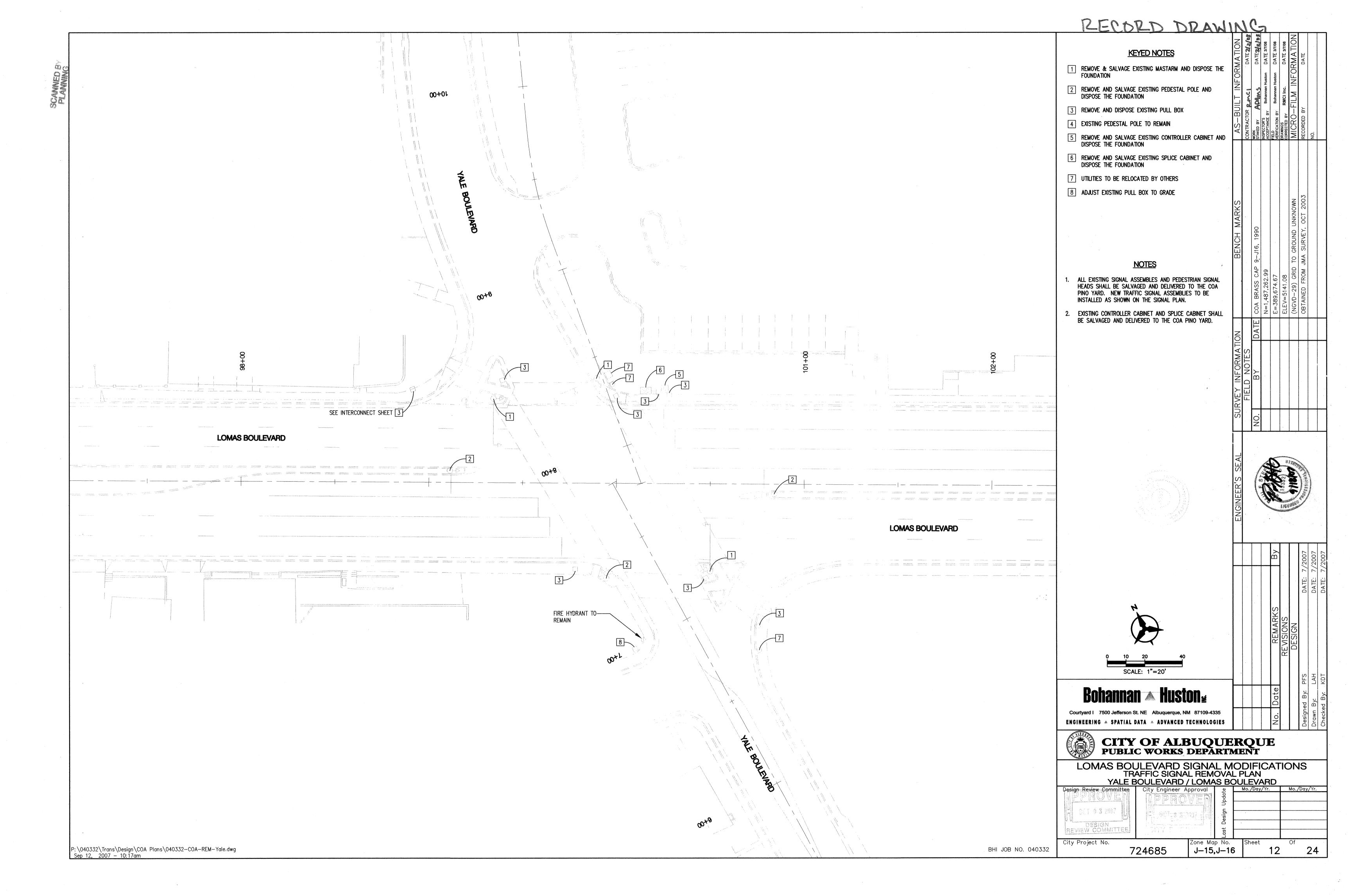
0428.010	PUSH BUTTON STATION, CIP	EACH	12		-	-	12
0428.011	PUSH BUTTON STATION, REMOVE & SALVAGE, COMPL.	EACH	8				8
0428.071	PHASE SELECTOR MODULE, 2 CHANNEL, CIP	EACH	2	-		***	2
0428.075	OPTICAL DETECTOR 1D/1C, CIP	EACH	4	-	w	- 1	4
0428.078	OPTICAL DETECTION SYSTEM CIP	LIN FT	1270	-	***	-	1270
0428.XXX 0428.092	VIDEO DETECTION SYSTEM, CIP VIDEO COAXIAL CABLE, CIP	EACH LIN FT	1315			-	1315
0428.092	VIDEO COAXAL CABLE, CIP	LIN FT	1315			-	1315
0428.094	VIDEO LOVER OABLE, OII VIDEO CAMERA, CIP	EACH	4	-		-	4
428.XXX	VIDEO CAMERA EXTENSION	EACH	2		·	-	2
0429.001	TRAFFIC ACTUATED CONTROLLER, CIP	EACH	1	-		_	1
0429.021	EIGHT PHASE DUAL RING CONTROLLER CABINET, CIP	EACH	1				1
0429.101	SALVAGE CONTROLLER, ANY TYPE, REMOVE & SALVAGE, COMPL.	EACH	1			-	1
0429.121	CONTROLLER CABINET, ANY TYPE, REMOVE & SALVAGE, COMPL.	EACH	1	-		-	1
0432.002	ROADWAY LUMINAIRE, TYPE 400S, CIP	EACH		2			2
0432.002	ROADWAY LUMINAIRE, ANY TYPE, REMOVE & SALVAGE, COMPL.	EACH			2	-	2
0432.102	ROADWAY LUMINAIRE, ANY TYPE, REMOVE & RELOCATE, COMPL.	EACH	•	_	<u>-</u> 1		1
							-

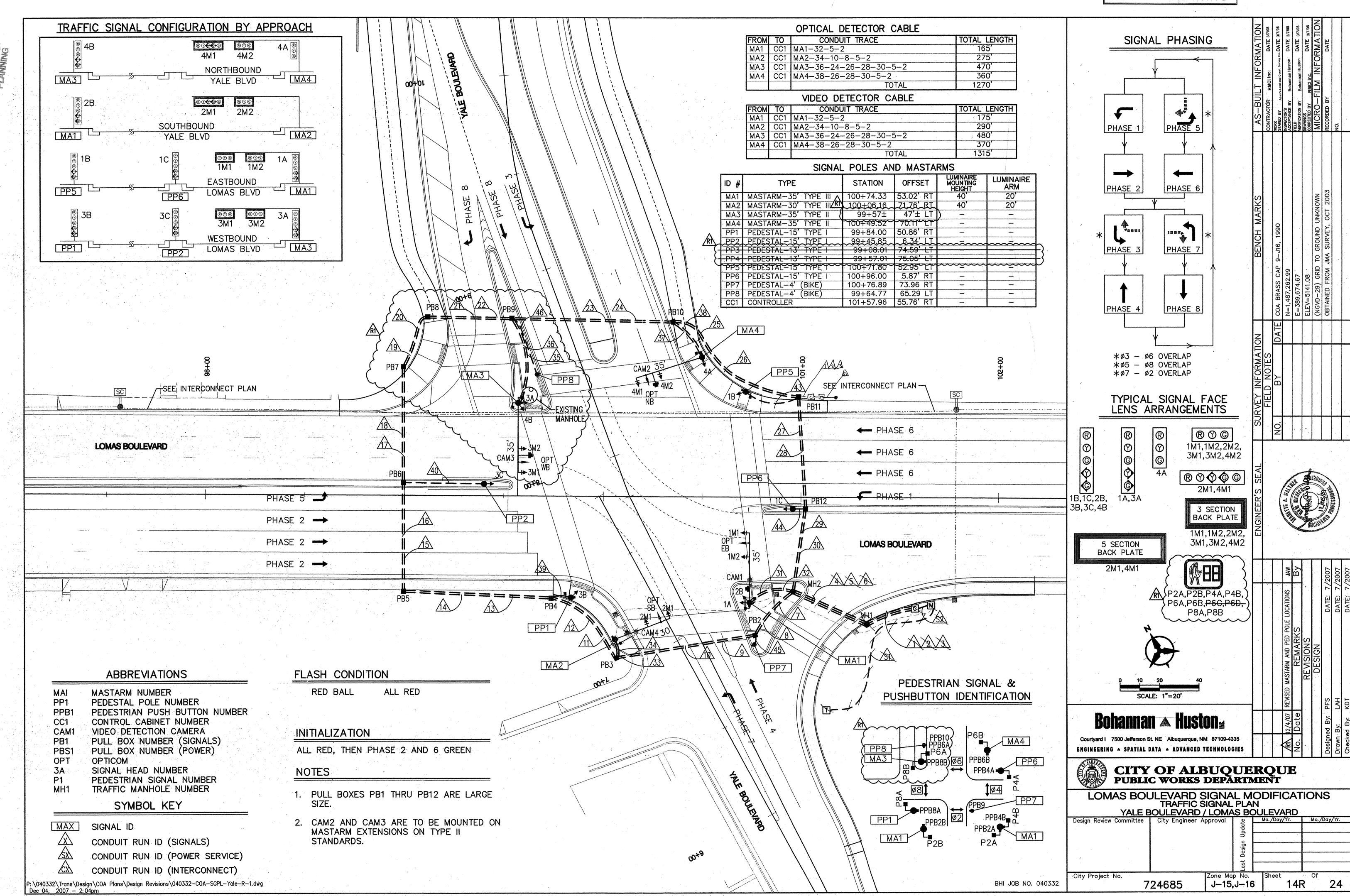
RECO	<u>LD</u>	DRA		N			·						
				INFORMATION	DATE 2/2/08	DATE 2/3/8		iton DATE 3/7/08	DATE 3/7/08	FORMATION	DATE		
				AS-BUILT INF	CONTRACTOR J. M.C.	WORK STAKED BY AO™S	INSPECTOR'S ACCEPTANCE BY Bohannan Huston	FIELD BY Bohannan Huston	DRAWINGS RMCI Inc.	MICRO-FILM INF	RECORDED BY		
				<u> </u>	COL	WOR STA	INSP	FIELI	DRA	M	RE(NO.	
									-				
				MARKS						NOWN	T 2003		
						1990				OUND UNKNOWN	SURVEY, OCT		
			<u>.</u> · ·	BENCH		P 9-J16,				TO GR	JMA	,	
				,		BRASS CAP	N=1,487,262.99	E=389,674.67	ELEV=5141.08	(NGVD-29) GRID	VED FROM		
						COA	N=1,4	E=386	ELEV=	(NGVD	OBTAINED		
				4 TION	3	DATE			,				
				NFORMATION	NOTES	ВҮ							
				JRVEY II	FIELD								
		;		SU		NO.						ŕ	
				4L .			الأناد	and the same of th	gantinonico com	The state of the s	en comeg		
				R'S SEA		12/25			(1/250)	Cole			
				ENGINEER'	·		1	7	LIC	S. N.S.			
				L									
			*.					By			7/2007	7/2007	7/2007
											DATE:	DATE:	DATE: 7/2007
								ARKS	NS	7			
								REMARK	REVISIONS	DESIGN			
						,					PFS	LAH	KDT
Bohann	an A	Huston						Date			igned By: Pl		cked By: K
		JQUERQUE, NM 87109- DVANCED TECHNOL						No.			Design	Drawn By:	Checke
AAAAAAAAA		ALBUÇ RKS DEP			***********								
TRAF	FIC SIGN	ARD SIGNA	TED (ער	AN	TI	TIE					,	
Review Committe		9999	ın Update		Mo. /	Day	/Yr.			Мо. /	'Day	/Yr.	
		FNGINEFA	Design			·			_				

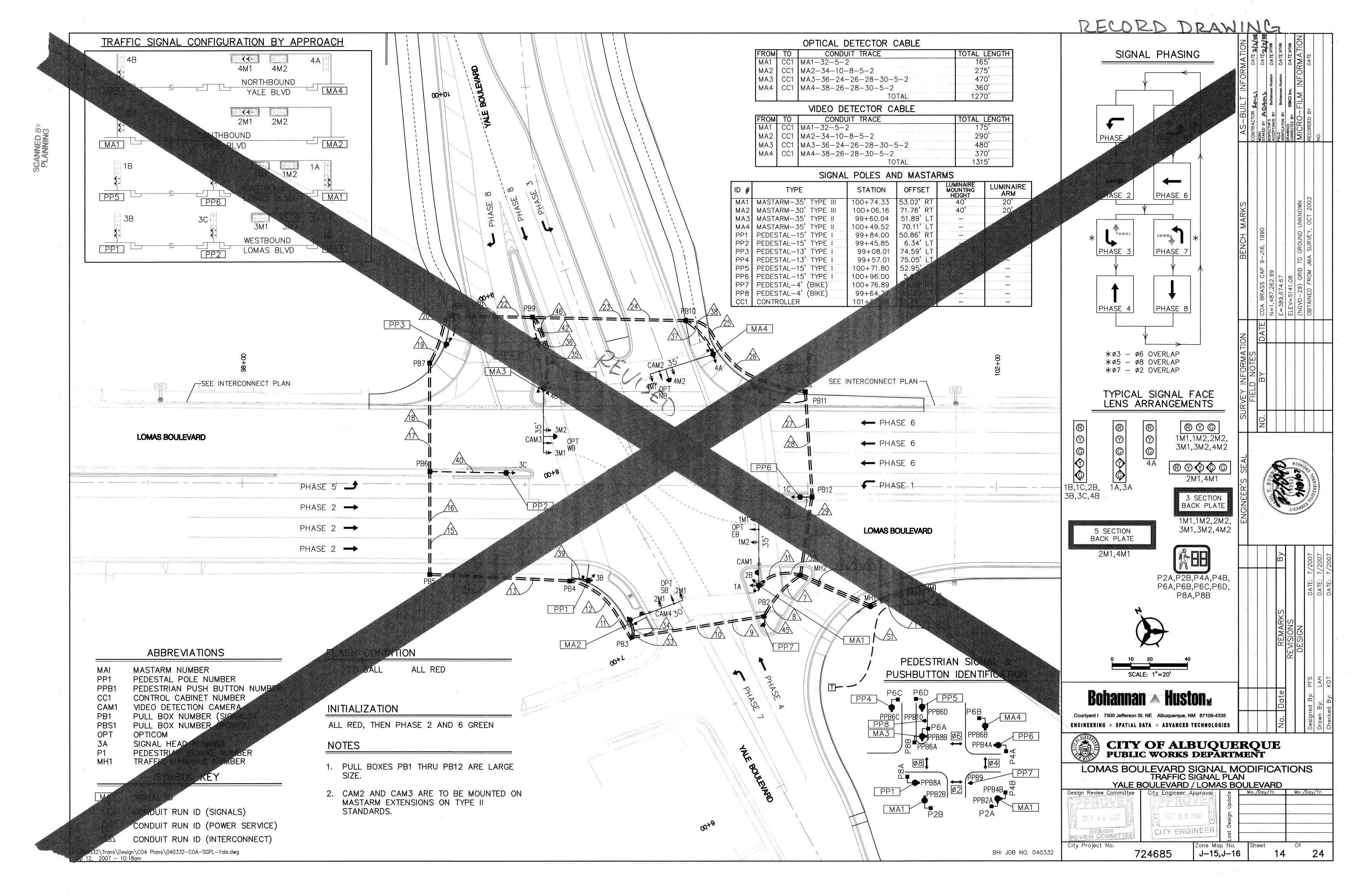
Zone Map No. Sheet J—15,J—16

City Project No.

724685







			water and the second	***************************************			CON	IDUIT AND	CONDUC	TOR REQU	IREMENTS					
CON	DUIT	LEN	1GTH	, SIZ	ZE, AND TYPE				CONDUI	T FILL BY C	ONTRACTOR	LENGTH A	AND TYPE			
RUN ID	SIZE 1"	LENGT		TYPE	REMARKS	MCC (# @ f		MCC 7 (# @ FT)	MCC 20 (# @ FT)	SCC #2 (# @ FT)	SCC #8 (# @ FT)	PS (# @ FT)	OTHER (# @ FT)	OPTICOM (# @ FT)	VIDEO POWER (# @ FT)	VIDEO COAXIAL (# @ FT)
S1	***************************************	100		RFC	POWER TO METER					3 @ 105						
S2		15			METER TO CONTROLLER					3 @ 20						
1			30	REC	CC1 TO MH1	2 @	35		2 @ 35		1 @ 35					
2			*****************************		CC1 TO MH1				2 6 33		1 6 55			4 @ 35	4 @ 35	4 @ 35
3					CC1 TO MH1	2 @	35		2 @ 35		1 @ 35					
<u>4</u> 5			***************************************		MH1 TO MH2 MH1 TO MH2	2 @	50		2 @ 50		1 @ 50			4 @ 50	4 @ 50	4 @ 50
6			45	REC	MH1 TO MH2	2 @	50		2 @ 50		1 @ 50					
7 8		35			MH2 TO PB2 MH2 TO PB2	2 @	40		2 @ 40		1 @ 40			1 @ 40	1 @ 40	1 @ 40
9		33			PB2 TO PB3	2 @	85		2 @ 85		1 @ 85			1 6 +0	1 6 +0	1 6 40
10		80		REC	PB2 TO PB3						1 0 15			1 @ 85	1 @ 85	1 @ 85
11		40			PB3 TO PB4 PB3 TO PB4	2 @	45		2 @ 45		1 @ 45	1 @ 45				
13				REC	PB4 TO PB5	2 @	80		2 @ 80		1 @ 80					
14		75	55		PB4 TO PB5 PB5 TO PB6	2 @	60		2 @ 60		1 @ 60	1 @ 80				
15 16		55	<u> </u>		PB5 T0 PB6		JU		2 😾 00		T & OO	1 @ 60				
17			65		PB6 TO PB7	2 @	70		2 @ 70		1 @ 70					
18 19		65	55		PB6 T0 PB7 PB7 T0 PB8	2 @	60		2 @ 60		1 @ 60	1 @ 70				
20		55		~~~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	PB7 TO PB8							1 @ . 60				
21			45		PB8 TO PB9	2 @	50		2 @ 50		1 @ 50	1 8 50				
22 23		45	85		PB8 T0 PB9 PB9 T0 PB10	2 @	90		2 @ 90		1 @ 90	1 @ 50				
24		85		REC	PB9 TO PB10									1 @ 90	1 @ 90	1 @ 90
25 26		80	80	******************************	PB10 TO PB11 PB10 TO PB11	2 @	85		2 @ 85		1 @ 85			2 @ 85	2 @ 85	2 @ 85
27			55	REC	PB11 TO PB12	2 @	60		2 @ 60		1 @ 60					
28 29		55	45		PB11 TO PB12 PB12 TO MH2	2 @	50		2 @ 50		1 @ 50			2 @ 60	2 @ 60	2 @ 60
30		45	-10		PB12 TO MH2		,		2 6 00					2 @ 50	2 @ 50	2 @ 50
31		0.5			MA1 TO MH2	6 @	30	2 @ 30						1 0 30	1 0 20	1 @ 30
32 33		25	************************		MA1 TO MH2 MA2 TO PB3	3 @	20	2 @ 20						1 @ 30	1 @ 30	1 @ 30
34		15		REC	MA2 TO PB3									1 @ 20	1 @ 20	1 @ 20
35 36		45	45	***************************************	MA3 TO PB9 MA3 TO PB9	6 @	50	2 @ 50						1 @ 50	1 @ 50	1 @ 50
37		1 🗸	25		MA4 TO PB10	4 @	30	1 @ 30								
38		25 15			MA4 TO PB10	2 6	20	1 6 00						1 @ 30	1 @ 30	1 @ 30
39 40		15 45			PP1 TO PB4 PP2 TO PB6	2 @	20	1 @ 20 1 @ 50							11000000	
41		20		REC	PP3 TO PB8	1 @	25									
42		20 30		<u> </u>	PP4 TO PB9 PP5 TO PB11	2 @	25 35	1 @ 35								
44		10			PP6 TO PB12			1 @ 15								
45 46		10			PB2 TO PP7	1 @	15 25									
46		20		KEC	PB9 TO PP8	1 @	25									
															,	

ABBREVIATIONS

ABBREVIATIONS

ABBREVIATIONS **ABBREVIATIONS** COMMUNICATION CABLE-6 PAIR COMMUNICATION CABLE-12 PAIR MASTARM MULTI CONDUCTOR CABLE PULL BOX PEDESTAL POLE PEDESTRIAN PUSH BUTTON RIGID ELECTRIC CONDUIT SINGLE CONDUCTOR CABLE CAM VIDEO CAMERA PULL STRING Bohannan \land Hustong Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335 ENGINEERING A SPATIAL DATA A ADVANCED TECHNOLOGIES CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT LOMAS BOULEVARD SIGNAL MODIFICATIONS TRAFFIC SIGNAL CABLES & CONDUITS YALE BOULEVARD / LOMAS BOULEVARD City Engineer Approval CITY ENGINEER Zone Map No. J—15,J—16 City Project No. 15 724685

CON	DUIT	LEN	IGTH.	SIZE, AND TYPE			CONDUIT	FILL BY C	ONTRACTOR	R LENGTH A	ND TYPE			
UN ID		'E/LENG 2"	Ti i	TYPE REMARKS	MCC 5 (# @ FT)	MCC 7 (# @ FT)	MCC 20 (# @ FT)	SCC #2 (# @ FT)	SCC #8 (# @ FT)	PS (# @ FT)	OTHER (# @ FT)	OPTICOM (# @ FT)	VIDEO POWER (# @ FT)	VIDEO COAXIAL (# @ FT)
MA 1		,		BASE TO 1A		1 @ 15								
A 1		,	****	BASE TO 1M1	1 @ 55	1 0 10								
A 1				BASE TO 1M2	1 @ 45									
A 1	man which the check of the chec		anakanna a maakamanka matainak kanak kanaka a	BASE TO 2B		1 @ 15								
A 1				BASE TO P2A	1 @ 15									
A 1			***************************************	BASE TO PAB	1 @ 15									
A 1 A 1				BASE TO PPB2A BASE TO PPB4B	1 @ 5 1 @ 5									
A 1				BASE TO CAM1				1					1 @ 60	1 @ 60
A 1			entransia and an anti-anti-anti-anti-anti-anti-anti-anti-	BASE TO OPTICOM EB					,			1 @ 50		
avanuskaniset einnassakinjalainen 22 valoristekoniset (j														
A2			na taringan dagay dinayah di daga dagayat di dikin di dikabada da	BASE TO 2M1		1 @ 50								
A2	weak while the first the own to program and more limiting its improper forms.			BASE TO 2M2	1 @ 40	4.0.45								
A2				BASE TO 3B BASE TO P8A	1 0 15	1 @ 15								
A2 A2				BASE TO POA BASE TO P2B	1 @ 15 1 @ 15									
A2				BASE TO PPB8A	1 @ 5									
A2				BASE TO PPB2B	1 @ 5									
A2				BASE TO CAM4									1 @ 60	1 @ 60
A2				BASE TO OPTICOM SB								1 @ 45		
A3			menonan managan dan perinangan perinangan perinangan perinangan perinangan perinangan perinangan perinangan pe	BASE TO 3A	1 0 55	1 @ 15								
43	unadantes construir in catalant en instrumenta in productiva en advisació de ser instrumenta			BASE TO 3M1	1 @ 55 1 @ 45							,		
A3 A3				BASE TO 3M2 BASE TO P6A	1 @ 45									
A3				BASE TO P8B	1 @ 15									
A3		gan gannan versanggir store Andriversite in agrica at MANANSASSINIA anna an		BASE TO PPB6A	1 @ 5									
АЗ	MARIER NOORD W. S. B. COS INCE BUT BOUL SINGUISE AND			BASE TO PPB8B	1 @ 5									
АЗ				BASE TO CAM3									1 @ 60	1 @ 60
АЗ				BASE TO OPTICOM WB								1 @ 50		
A 4	water a service servic			BASE TO 4A	1 @ 15	1 0 55								
A 4 A 4				BASE TO 4M1 BASE TO 4M2	1 @ 45	1 @ 55								
A 4				BASE TO 1B	1 9 +5	1 @ 15								
A 4				BASE TO P4A	1 @ 15									
A 4		and Medicine search are Printing Sold or any communicative benefit described in Printing		BASE TO PPB4A	1 @ 5				***************************************					
A 4				BASE TO CAM2									1 @ 60	1 @ 60
A 4			***********************************	BASE TO OPTICOM NB								1 @ 50		
				DACE TO 35		1.6.15								
P1 P1				BASE TO 3B BASE TO P8A	1 @ 15	1 @ 15							,	
P1				BASE TO PBBA	1 @ 5									
P2				BASE TO PEBOA		1 @ 15								
P3				BASE TO P6C	1 @ 15									
Р3				BASE TO PPB6C	1 @ 5									
P4				BASE TO P6D	1 @ 15									
P4				BASE TO PPB6D	1 @ 5									
P5	***************************************			BASE TO P4A	1 @ 15									
P5				BASE TO PPB4A	1 @ 5	1 6 15								
P6 P7				BASE TO 1C BASE TO PPB9	1 @ 5	1 @ 15								
P / P 8		-	***************************************	BASE TO PPB9 BASE TO PPB10	1 @ 5									
TAL	0	1110	1050		3305	575	1890	375	945	365	0	1270	1315	1315

REC	ORD DI	ZIV			3		~			Z			
ABBREVIATOR CC 6 CC 12 MA MCC PB PP PPB REC SCC CAM	COMMUNICATION CABLE—6 PAIR COMMUNICATION CABLE—12 PAI MASTARM MULTI CONDUCTOR CABLE PULL BOX PEDESTAL POLE PEDESTRIAN PUSH BUTTON RIGID ELECTRIC CONDUIT SINGLE CONDUCTOR CABLE VIDEO CAMERA			AS-BUILT INFORMATION	CONTRACTOR PINCI DATE 2/2/08	WORK STAKED BY AOPINS DATE 2/2	Bohannan Huston	FIELD BY Bohannan Huston DATE 3/7/08	DRAWINGS RMCI Inc. DATE 3/7/08 CORRECTED BY	MICRO-FILM INFORMATION	RECORDED BY DATE	NO.	
PS	PULL STRING			BENCH MARKS		COA BRASS CAP 9-J16, 1990	N=1,487,262.99	E=389,674.67	ELEV=5141.08	(NGVD-29) GRID TO GROUND UNKNOWN	OBTAINED FROM JMA SURVEY, OCT 2003		
				SURVEY INFORMATION	FIELD NOTES	NO. BY DATE							
				ENGINEER'S SEAL			1 S. F. F. F. S. F			CENS	John Service Control of the Service Control o	CVESSION IN	
								REMARKS By	REVISIONS	DESIGN	DATE: 7/2007	DATE: 7/2007	DATE: 7/2007
Courtyard 7500 Jef	INAN A HUSTO Herson St. NE Albuquerque, NM ATIAL DATA A ADVANCED TEC	87109-4335 HNOLOGIE	JE	R			נע	No. Date			Designed By: PFS	Drawn By: LAH	Checked By: KDT
LOMAS I	BLIC WORKS D BOULEVARD SIGNAL CA LE BOULEVARD / I	GNAL BLES OMAS	. M & C			FI	C/	<u></u> ДТ		DN Mo./	,	/Yr.	

G OCT 2 2 2007 U

CITY ENGINEER

724685

Zone Map No. J-15,J-16

DESIGN REVIEW COMMITTEE

City Project No.

DETECTOR LOOPS VEHICLE DETECTOR LOOP DIMENSIONS CALL UNIT # CHANNEL TYPE L W S T VEHICLE DETECTOR LOOP WIRE PAVEMENT SAWCUT VIDEO DETECTION IS REQUIRED FOR THIS INTERSECTION

NOTES:

- 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 BOX 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.

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>ø4</u>
MINIMUM INITIAL	5	15	5	10	15	15	5	10
VEHICLE EXTENSION	3	3	3	3	3	3	3	3
MAXIMUM 1	10	30	10	30	10	30	10	30
MAXIMUM 2	15	40	15	40	15	40	15	40
YELLOW CHANGE	4	4	4	4	4	4	4	4
RED CLEAR	2	2	2	2	2	2	2	2
WALK	0	4	0	4	0	4	0	4
PEDESTRIAN CLEAR	0	16	0	25	0	16	0	25
OPERATION	OFF	MIN	OFF	OFF	OFF	MIN	OFF	OFF
		RECALL				RECALL		

DETECTOR RACK ASSIGNMENTS

UNIT NUMBER -	POWER SUPPLY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
CHANNEL 1 -		ø1	ø 2	Ø8-	ø2 EC	ø3	Ø4	Ø8	ø4 EC	DUAL LEFT ø1	DUAL LEFT ø3	SD 1	SD 3	SD 5	SD -7	SD 9	P E D I S	OPTICOM 1	ортісом 3
CHANNEL 2 -		ø5	ø2	ø6	ø6 EC	ø7	ø4 	Ø8	ø8 EC	DUAL LEFT Ø5	DUAL LEFT Ø7	SD 2	SD 4	SD 6	SD 8	SD 10	0 L A T I O N	ортісом 2	ортісом 4
DETECTOR MODULE REQUIRED —	*					***************************************												4	

* INCIDENTAL TO CONSTRUCTION

			FUNCTION CH	HART - 115 VOLT	CIRCUIT	1/
CO	NDUCTOR	2	RING 1 - MULTI CO	ONDUCTOR CABLE 20	RING 2 - MULTI CO	ONDUCTOR CABLE 20 2/
CONDUCTOR NUMBER	BASE COLOR	TRACER	FUNCTION	FIELD CONNECTION	FUNCTION	FIELD CONNECTION
1	BLACK	*****	SPARE	SPARE	SPARE	SPARE
2	WHITE	No. Albania	SPARE	SPARE	SPARE	SPARE
3	RED	***************************************	PHASE 1 RED	SPARE	PHASE 5 RED	SPARE
4	GREEN	******	PHASE 1 GREEN	GREEN LEFT TURN ARROW 3B, 3C	PHASE 5 GREEN	GREEN LEFT TURN ARROW 1B, 1C
5	ORANGE		PHASE 1 YELLOW	YELLOW LEFT TURN ARROW 3B, 3C	PHASE 5 YELLOW	YELLOW LEFT TURN ARROW 1B, 1C
6	BLUE		SPARE	SPARE	SPARE	SPARE
7	WHITE	BLACK	SPARE	SPARE	SPARE	SPARE
8	RED	BLACK	PHASE 2 RED	RED BALL 1A, 1B, 1C, 1M1, 1M2	PHASE 6 RED	RED BALL 3A, 3B, 3C, 3M1, 3M2
9	GREEN	BLACK	PHASE 2 GREEN	GREEN BALL 1A, 1B, 1C, 1M1, 1M2	PHASE 6 GREEN	GREEN BALL 3A, 3B, 3C, 3M1, 3M2
10	ORANGE	BLACK	PHASE 2 YELLOW	YELLOW BALL 1A, 1B, 1C, 1M1, 1M2	PHASE 6 YELLOW	YELLOW BALL 3A, 3B, 3C, 3M1, 3M2
11	BLUE	BLACK	PHASE 2 WALK	PEDESTRIAN WALK P2A, P2B	PHASE 6 WALK	PEDESTRIAN WALK P6A, P6B
12	BLACK	WHITE	PHASE 2 DON'T WALK		PHASE 6 DON'T WALK	PEDESTRIAN DON'T WALK P6A, P6B
13	RED	WHITE	PHASE 3 RED	SPARE	PHASE 7 RED	SPARE
14	GREEN	WHITE	PHASE 3 GREEN	GREEN LEFT TURN ARROW 2M1, 2B	PHASE 7 GREEN	GREEN LEFT TURN ARROW 4M1, 4B
15	BLUE	WHITE	PHASE 3 YELLOW	YELLOW LEFT TURN ARROW 2M1, 2B	PHASE 7 YELLOW	YELLOW LEFT TURN ARROW 4M1, 4B
16	BLACK	RED	PHASE 4 RED	RED BALL 4A, 4B, 4M1, 4M2	PHASE 8 RED	RED BALL 2B, 2D, 2M1, 2M2
17	WHITE	RED	PHASE 4 GREEN	GREEN BALL 4A, 4B, 4M1, 4M2	PHASE 8 GREEN	GREEN BALL 2B, 2D, 2M1, 2M2
18	ORANGE	RED	PHASE 4 YELLOW	YELLOW BALL 4A, 4B, 4M1, 4M2	PHASE 8 YELLOW	YELLOW BALL 2B, 2D, 2M1, 2M2
19	BLUE	RED	PHASE 4 WALK	PEDESTRIAN WALK P4A, P4B	PHASE 8 WALK	PEDESTRIAN WALK P8A, P8B
20	RED	GREEN	PHASE 4 DON'T WALK	PEDESTRIAN DON'T WALK P4A, P4B	PHASE 8 DON'T WALK	PEDESTRIAN DON'T WALK P8A, P8B

FUNCTION CHART — 24 VOLT CIRCUIT 3/											
CONDUC	CTOR	RING 1-MULTI	CONDUCTOR CABLE 5								
NUMBER	BASE COLOR	FUNCTION	FIELD CONNECTION	FUNCTION	FIELD CONNECTION						
1	BLACK	PHASE 2	PPB2A, PPB2B	SPARE							
2	WHITE	COMMON	PPB2A,2B,4A,4B,PPB9	COMMON	PPB6A,6B,8A,8B, PPB10						
3	RED	PHASE 4	PPB4A, PPB4B, PPB9	SPARE	,						
4	GREEN	SPARE		PHASE 6	PPB6A, PPB6B						
5	ORANGE	SPARE		PHASE 8	PPB8A, PPB8B, PPB10						

			•				REMARKS	SNOIS	SIGN				
								REVISI	DE				
		***************************************								PFS	LAH	KD1	
Bohanna	Bohannan ▲ Huston Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335						Date			ed By:	By:	d By:	
							No.			Designed	Drawn	Checked	
CITY OF ALBUQUE PUBLIC WORKS DEPARTM						J	E						
LOMAS BOU TRAFFIC YALE B		DET DUL	EV.	TC AR	R	S							
Design Review Committee	. Design Update	Mo	o./Day	y/Yr.			Mo. /	'Day,	/Yr.				
PENERA COMMITTE	The Section Conference of the	a postante de la composição de la compos	- Last	16					~ ·				,
City Project No. Zone Map No. 724685 J-15,J-16					heet	•	17		Of		24	·	



LIGHTING NOTES

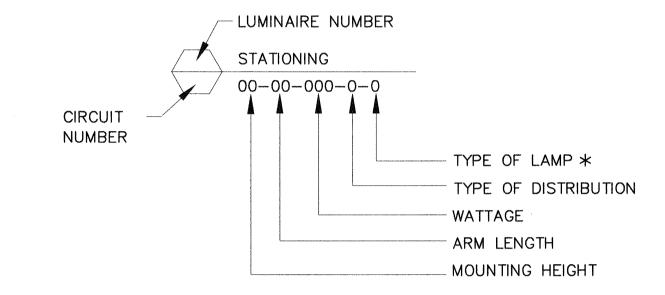
- 1. LOCATIONS OF CONDUITS, FOUNDATIONS, PULL BOXES, AND CONTROL CABINETS SHOWN ON THE PLANS ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD TO MAXIMIZE CLEAR SPACE AVAILABLE FOR PEDESTRIANS AND WHEELCHAIRS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CONTRACTOR SHALL MEET WITH THE PROJECT MANAGER IN THE FIELD AT ALL LOCATONS TO SPOT EQUIPMENT BEFORE BEGINNING THE WORK. ALL SUCH EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY.
- ALL WIRE ON THIS PROJECT TO BE COPPER ONLY.
- LIGHT STANDARDS SHALL HAVE BREAKAWAY COUPLINGS.
- 4. ALL ROADWAY LIGHTING CIRCUITS ON THIS PROJECT SHALL BE 240 VOLTS.
- 5. REWIRING OF EXISTING LUMINAIRES TO REMAIN AND CONNECTIONS TO NEW CIRCUITS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- 6. EACH CIRCUIT FOR ROADWAY LIGHTING SHALL BE INSTALLED IN SEPARATE CONDUITS UNLESS APPROVED OTHERWISE.
- 7. PNM SHALL BE NOTIFIED TO REMOVE EXISTING POLES AND LUMINAIRES.
- 8. EACH TIME A ROADWAY LUMINAIRE IS TURNED ON OR OFF THE CONTRACTOR SHALL COORDINATE WITH THE FOLLOWING REPRESENTATIVES:

CITY OF ALBUQUERQUE

- 9. POWER SHALL NEITHER BE TURNED ON OR OFF UNTIL RESPONSIBLE PARTIES FOR EACH LIGHTING SYSTEM HAVE BEEN NOTIFIED.
- 10. ALL SINGLE CONDUCTOR #10 COPPER WIRES CONNECTING THE MAIN CIRCUIT WIRING TO CORRESPONDING LUMINAIRES SHALL BE CONSIDERED INCIDENTAL TO COST OF POLES.
- 11. RESPONSIBILITY, ACCEPTANCE AND MAINTENANCE OF THE ROADWAY LIGHTING SYSTEM SHALL BE BY PNM. THE CONTRACTOR SHALL PROVIDE PNM FIVE (5) WORKING DAYS NOTICE IN ADVANCE OF TURNING ON THE SYSTEM TO ALLOW PNM TO INSPECT AND APPROVE THE SYSTEM BEFORE IT IS TURNED ON.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND COST OF ENERGIZING ALL LIGHTING SYSTEM UNTIL SUCH TIME THAT THE APPROPRIATE OWNER AND MAINTAINING AGENCY ACCEPT THE RESPONSIBILITY FOR THE SYSTEM.
- 13. ANY LUMINAIRES DAMAGED DURING REMOVAL OF LIGHTING STANDARDS SHALL BE REPLACED IN KIND AT CONTRACTOR'S EXPENSE.
- 14. PNM AND UNM WILL ASSIST WITH IDENTIFICATION OF EXISTING CIRCUITS. THE CONTRACTOR SHALL BE REQUIRED TO TIE THE NEW CIRCUITS INTO EXISTING CIRCUITS AS DIRECTED BY PROJECT MANAGER. THE CONTRACTOR SHALL USE APPROPRIATE CAUTION WHEN INTERCEPTING EXISTING CIRCUITS.
- 15. LIGHTS NEAR EXISTING OVERHEAD TRANSMISSION LINES MUST MAINTAIN A VERTICAL CLEARANCE AND A HORIZONTAL CLEARANCE FROM THE PHASE CONDUCTOR. PNM WILL ASSIST IN MEASUREMENT AND DETERMINATION OF CLEARANCE.

LIGHTING LEGEND

NEW	EXISTING	ITEM
X	XO	LIGHTING STANDARD WITH LUMINAIRE AS INDICATED
	namentali. partigacioneria eta sprimaner	CONDUIT RUN
		PULL BOX
J	J	JUNCTION BOX
•	. Projection	SERVICE POLE WITH SERVICE RISER
LC	L. C.	LIGHTING CONTROL CABINET



LAMP TYPES *

M = METAL HALIDE

H = MERCURY

S = SODIUM

LIGHTING INCIDENTAL ITEMS

- ANCHOR BOLTS FOR FOUNDATIONS.
- GROUND RODS FOR FOUNDATIONS.
- 3. UNIVERSAL SUPPORT BRACKETS FOR SERVICE RISERS.
- 4. CONCRETE FOUNDATION FOR LIGHTING CONTROL CABINETS INCLUDING EXCAVATION, BACKFILL, CONCRETE, GROUND RODS, AND ANCHOR
- 5. REWIRING OF ANY EXISTING LUMINAIRES TO REMAIN OR BE RESET.
- 6. SINGLE CONDUCTOR #10 AWG COPPER WIRE CONNECTIONS FROM MAIN CIRCUIT TO LUMINAIRES.
- 7. SHOP DRAWING PREPARATION AND COORDINATION FOR LIGHTING CONTROL CABINETS.

	LIGHTING QUANTITIES (Estimated)											
ITEM NO.	DESCRIPTION	UNIT	ROADWAY LIGHTING	TOTAL (USE)								
0423.020	LUMINAIRE FOUNDATION FOR LUMINARIE HEIGHT OF 40' OR LESS, CIP.	EACH	1	1								
0423.121	STREET LIGHT FOUNDATION, REMOVE & DISPOSE, COMPL.	EACH	1	1								

						AS-BUILT INFORMAT	CONTRACTOR RMC1 DATE		INSPECTOR'S Bohannan Huston DATE	FIELD VERIFICATION BY Bohannan Huston DATE	DATE CORRECTED BY RMCI Inc. DATE	MICRO-FILM INFORMA	RECORDED BY DATE	NO.	
						BENCH MARKS		COA BRASS CAP 9-J16, 1990	N=1,487,262.99	E=389,674.67	ELEV=5141.08	(NGVD-29) GRID TO GROUND UNKNOWN	OBTAINED FROM JMA SURVEY, OCT 2003		
						SURVEY INFORMATION	FIELD NOTES	NO. BY DATE							
						ENGINEER'S SEAL			THE R. WALL		The County of th	TEBIS .	100 N	The state of the s	
										REMARKS By	REVISIONS	DESIGN	DATE: 7/2007	DATE: 7/2007	DATE: 7/2007
GINEERING A SP	ATIAL D		erque, NM	87109-4 ECHNOLO		R		- T		No. Date			Designed By: JAW	Drawn By: LAH	Checked By: KDT
PU LOMAS	BLIC BOU ITING	JLEVAF NOTES	RD S	IGNA SEND	LM	QI	DI	FI N Day	ГΙΤ		S	DN		/Yr.	

RECORD DRAWING

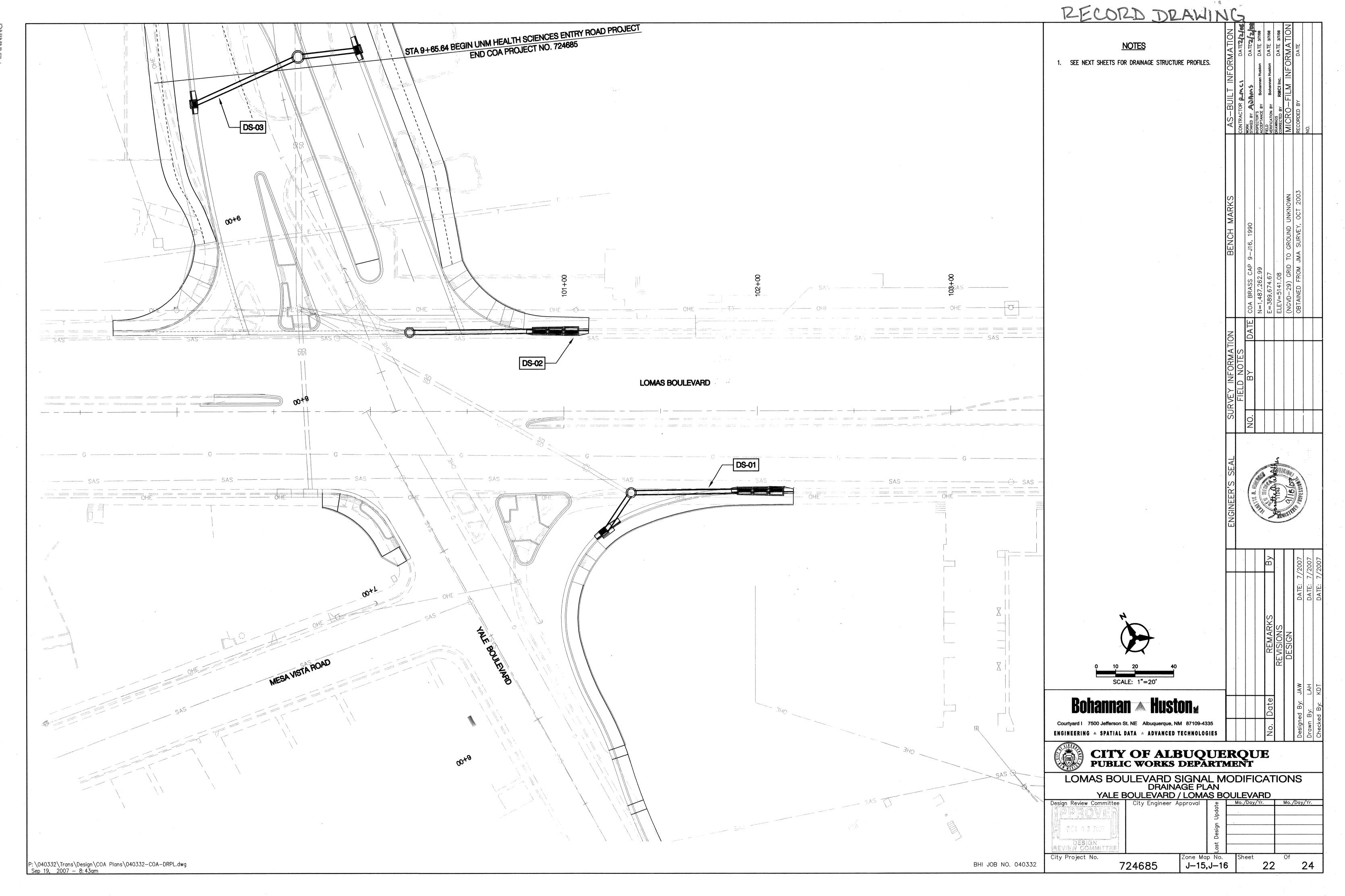
P: \040332\Trans\Design\COA Plans\040332—COA—LTNT.dwg Sep 12, 2007 — 10:18am

BHI JOB NO. 040332

KEYED NOTES 2 PNM TO REMOVE AND SALVAGE EXISTING LIGHTING STANDARD AND LUMINAIRE 3 REMOVE AND RESET EXISTING LIGHT ON NEW FOUNDATION RECONNECT EXISTING OVERHEAD ELECTRIC TO EXISTING LIGHT ENGINEERING A SPATIAL DATA A ADVANCED TECHNOLOGIES CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT LOMAS BOULEVARD SIGNAL MODIFICATIONS
ROADWAY LIGHTING PLAN
YALE BOULEVARD / LOMAS BOULEVARD

sign Review Committee | City Engineer Approval | 9 | Mo./Day/Yr. | Mo./Day/Yr. Zone Map No. J—15,J—16 City Project No. 724685 20

RECORD DRAWING



NOTES STATIONING IS CALCULATED PERPENDICULAR FROM THE CENTERLINE TO THE LONGITUDINAL CENTER OF EACH CDI OR MANHOLE. 2. CDI OFFSET DISTANCE REFERS TO THE FLOWLINE BASED ON TYPICAL SECTION. 3. SET GRADE OF CDI TO MATCH THE FLOWLINE (DETERMINED BY TYPICAL SECTIONS AND ROADWAY PROFILE) AS SPECIFIED ON COA STANDARD DETAIL SHEETS. 4. ALL TYPE C MANHOLES SHALL BE BUILT PER COA STD 5130 5130 5. ALL TYPE E MANHOLES SHALL BE BUILT PER COA STD EXISTING STORM DRAIN LINE DWG 2102. 6. ALL TYPE A INLETS SHALL BE BUILT PER COA STD 5120 5120 DWG 2201. 24" SD _\S=13. 08% (1. 8LF) 7. ALL TYPE C INLETS SHALL BE BUILT PER COA STD 24" SD S=3. 70% (63. 9LF) DWG 2205. 5110 5110 8. ALL TYPE D INLETS SHALL BE BUILT PER COA STD DWG 2206. 9. PIPE LENGTH IS THE HORIZONTAL LENGTH FROM CENTER OF MANHOLE TO CENTER OF MANHOLE AND 5100 1+50 FROM INSIDE WALL OF DROP INLETS. 5100 0+00 1+00 -0+2010. ALL INLET GRATES SHALL BE INSTALLED PER COA STD DWG 2220. DS-02 REMOVE EXISTING CURB DROP INLET AT STA 100+28.00 (LOMAS) REMOVE EXISTING CURB DROP INLET AT STA 100+66.00 (LOMAS) BUILD MANHOLE 4' DIA. TYPE E (MH-02) AT STA 8+14.19, 21.0' RT (YALE) SAWCUT EXISTING RCP PIPE AND RECONNECT TO NEW MANHOLE AS REQUIRED BUILD 1-24"X64' RCP CLASS III CONNECT TO NEW CURB DROP INLET BUILD 1-CURB DROP INLET TYPE DOUBLE C (CDI-05) AT STA-100+87.58, 42.2' LT (LOMAS) BUILD 1-24"X2' RCP CLASS III CONNECT TO NEW CURB DROP INLET BUILD 1-CURB DROP INLET TYPE DOUBLE C (CDI-04A) AT STA 100+95.84, 42.2' LT (LOMAS) BUILD 1-24"X2' RCP CLASS III CONNECT TO NEW CURB DROP INLET BUILD 1-CURB DROP INLET TYPE A (CDI-04B) AT SIA 101+04.09, 42.2' LT (LOMAS) *CONTRACTOR TO VERIFY SLOPE AND ELEVATION OF EXISTING PIPE 25.68 5124 = 5121.68 = 5121.58 125.35 **S124** = 5121.35 T = 5121.25 5140 5140 120.00 4 11 11 11 5130 5130 5120 5120 S=18. 40% (1. 7LF) 24" SD S=13. 21% (1. 7LF) 24" SD S=0. 50% (23. 5LF) 24" SD S=4. 31% (55. 3LF) 5110 5110 1+00 1 + 40-0+80 101+22.47 63.54 PT BUILD 1-CURB DROP INLET TYPE C (CDI-01) AT STA 101+20.75, 63.0' RT (LOMAS) REMOVE EXISTING CURB DROP INLET AT STA 101+40.00 BUILD 1-24"X32' RCP CLASS III CONNECT TO NEW MANHOLE BUILD 1-MANHOLE 4' DIA (MH-01) AT STA 101+34.72, 42' RT (LOMAS) SCALE: 1"=10' BUILD 1-24"X55' RCP CLASS III CONNECT TO NEW CURB DROP INLET BUILD 1-CURB DROP INLET TYPE DOUBLE C (CDI-02) AT STA 101+93.31, 41.9' RT (LOMAS) **Bohannan A Huston**_{*} BUILD 1-24"X2' RCP CLASS III CONNECT TO NEW CURB DROP INLET BUILD 1-CURB DROP INLET TYPE DOUBLE C (CDI-03A) AT STA 102+01.54, 41.9' RT (LOMAS) BUILD 1-24"X2' RCP CLASS III ENGINEERING A SPATIAL DATA A ADVANCED TECHNOLOGIES CONNECT TO NEW CURB DROP INLET BUILD 1-CURB DROP INLET TYPE A (CDI-03B) AT-STA 102+09.78, 41.9' RT (LOMAS) CITY OF ALBUQUERQUE *CONTRACTOR TO VERIFY SLOPE AND ELEVATION OF EXISTING PIPE PUBLIC WORKS DEPARTMENT LOMAS BOULEVARD SIGNAL MODIFICATIONS DRAINAGE PROFILES YALE BOULEVARD / LOMAS BOULEVARD City Engineer Approval Design Review Committee City Project No. Zone Map No. P:\040332\Trans\Design\COA Plans\040332-COA-DRPRO.dwg 724685 J-15,J-16 23 BHI JOB NO. 040332 Sep 19, 2007 - 8:44am

RECORD DRAWING

BUILD 1-CURB DROP INLET TYPE C (CDI-06) AT STA 9+56.43, 46.3 LT (YALE)

BUILD 1-24"X58' RCP CLASS III

BUILD 1-CURB DROP INLET TYPE C (CDI-07) AT STA 9+70.64, 42.9 RT (YALE)

BUILD 1-24"X30' RCP CLASS III

CONNECT TO NEW MANHOLE

BUILD 1-MANHOLE 5' DIA. (MH-03) AT STA 9+70.95, TI.2' RT (YALE)

SAWCUT EXISTING RCP PIPE AND RECONNECT TO NEW MANHOLE AS REQUIRED

* CONTRACTOR TO VERIFY SLOPE AND ELEVATION OF EXISTING PIPE

RECORD DRAWING

1. 2. 3.	NOTES STATIONING IS CALCULATED PERPENDICULAR FROM THE CENTERLINE TO THE LONGITUDINAL CENTER OF EACH CDI OR MANHOLE. CDI OFFSET DISTANCE REFERS TO THE FLOWLINE BASED ON TYPICAL SECTION. SET GRADE OF CDI TO MATCH THE FLOWLINE (DETERMINED BY TYPICAL SECTIONS AND ROADWAY PROFILE) AS SPECIFIED ON COA STANDARD DETAIL SHEETS.	AS-BUILT INFORMATION	CONTRACTOR 2 MC	WORK STAKED BY ADAMS DATE 2/2/	INSPECTOR'S ACCEPTANCE BY Bohannan Huston DATE 3/7/08	FIELD VERIFICATION BY Bohannan Huston DATE 3/7/08	DATE 3/7/08 CORRECTED BY RMCI Inc. DATE 3/7/08	MICRO-FILM INFORMATION	RECORDED BY DATE	NO.	
4. 5. 6. 7. 8. 9.	ALL TYPE C MANHOLES SHALL BE BUILT PER COA STD DWG 2101. ALL TYPE E MANHOLES SHALL BE BUILT PER COA STD DWG 2102. ALL TYPE A INLETS SHALL BE BUILT PER COA STD DWG 2201. ALL TYPE C INLETS SHALL BE BUILT PER COA STD DWG 2205. ALL TYPE D INLETS SHALL BE BUILT PER COA STD DWG 2206. PIPE LENGTH IS THE HORIZONTAL LENGTH FROM CENTER OF MANHOLE TO CENTER OF MANHOLE AND FROM INSIDE WALL OF DROP INLETS.	SURVEY INFORMATION BENCH MARKS	FIELD NOTES	O. BY DATE COA BRASS CAP 9-J16, 1990	N=1,487,262.99	E=389,674.67	ELEV=5141.08	(NGVD-29) GRID TO GROUND UNKNOWN	OBTAINED FROM JMA SURVEY, OCT 2003		
		ENGINEER'S SEAL		3	The state of the s	By	3332	THE DAY OF THE PARTY OF THE PAR	/2007	7/2007	10000
	0 5 10 20 SCALE: 1"=10' Bohannan ▲ Huston≤)ate REMARKS	REVISIONS	DESIGN	By: JAW DATE: 7,	LAH DATE:	L 71 40
ENG	CITY OF ALBUQUE PUBLIC WORKS DEPART LOMAS BOULEVARD SIGNAL M DRAINAGE PROFILE YALE BOULEVARD / LOMAS B City Engineer Approval	10 S OL	DI	IFI	C	AT D	•		S Designed	Drawn By:	

P:\040332\Trans\Design\COA Plans\040332—COA—DRPRO.dwg Sep 18, 2007 — 6:31am BHI JOB NO. 040332

Last Design Upd

724685 Zone Map No. J-15,J-16

City Project No.

Sheet **24**