

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
CONSTRUCTION PLANS FOR

RECORD DRAWING  
Sept. 29, 2016

VICINITY MAP



PROJECT LENGTH: 0.138 MI. - 730 FT.  
ZONE ATLAS MAP: K-9

CENTRAL AVENUE AND 98TH STREET  
LEFT TURN AND TRAFFIC SIGNAL  
MODIFICATIONS

PROJECT NO. 904307



APPROVED AS RECORD DRAWINGS  
DMD/CSD  
CITY CONSTRUCTION ENGINEER  
*David S. Harrison*  
DATE: 9-30-2016

RECORD DRAWING INFO	
CITY INSPECTOR	Joe Baca
CITY PROJECT MANAGER	SAVANNAH TORRES
CONTRACTOR	TLC Plumbing and Utility
SURVEYOR	Rex Vogler
URBAN PROJECT SUPERVISOR	Donald Morales
ACCEPTANCE DATE	September 15, 2016
CONSTRUCTION ENGINEER	Dave Harrison


PROJECT DESCRIPTION:  
TRAFFIC SIGNAL AND MEDIAN MODIFICATIONS  
TO PROVIDE DUAL LEFT TURN LANES ON  
CENTRAL AVENUE AT 98TH STREET.

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.

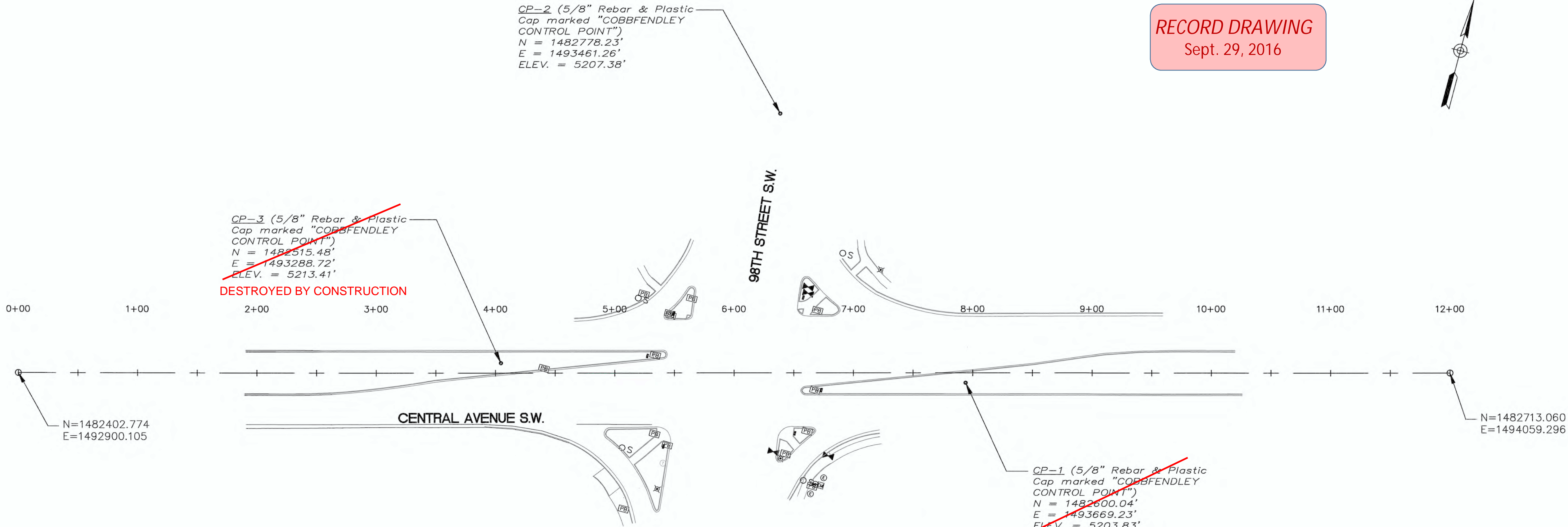
*NANCIE L. ADAMS*  
NAME  
DATE: 9/29/16

Parametrix

8801 Jefferson NE, Building B  
Albuquerque, NM 87113  
P. 505.821.4700 F. 505.821.7131  
www.parametrix.com

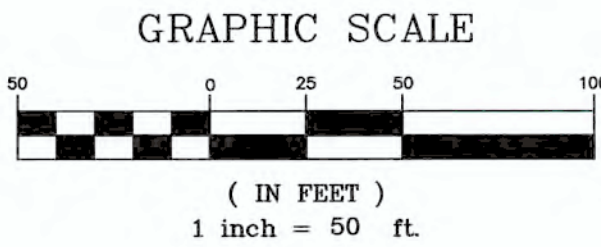
REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEER'S STAMP & SIGNATURE		APPROVED	ENGINEER	DATE	APPROVED FOR CONSTRUCTION		
		DRC Chairman	<i>[Signature]</i>	6/9/16	 CITY ENGINEER DATE: 4/4/16		
		Transportation	<i>[Signature]</i>	6/9/16			
		ABCWUA	<i>[Signature]</i>	6/9/16			
		Hydrology	<i>[Signature]</i>	6/9/16			
		CIP	<i>[Signature]</i>	6/9/16			
AMAFCA							
Constr. Coord.							
PROJECT NUMBER		ZONE ATLAS NO.		DRAWING NO. 1 OF 14			
904307		K-9					






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2. KEY MAP SURVEY
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11. COA DWG. 2900-107 LANE LANE EXTENSION & CHEVRON STRIPE DETAILS
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14. CABLES, DETECTORS & FUNCTIONS



		CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION	
TITLE: CENTRAL AVENUE AND 98th STREET LEFT TURN AND TRAFFIC SIGNAL MODIFICATIONS KEY MAP SURVEY			
Design Review Committee <b>APPROVED</b> JUN 09 2016 DESIGN REVIEW COMMITTEE	City Engineer Approval <b>APPROVED</b> JUN 09 2016 CITY ENGINEER	Mo. / Day / Yr. ____ / ____ / ____	Mo. / Day / Yr. ____ / ____ / ____
City Project No. 904307	Zone Map No. K-9	Sheet 2	Of 14

ENGINEERS SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES		The station mark is a City of Albuquerque survey control 3 1/4" aluminum disc set in a concrete post 0.5' above ground and is stamped "14-K9 2002". The station is located in the NW quadrant of the 86th Street/Bridge Blvd. intersection. Datum: NAD 83, elevations based on NAVD 88 datum: N=1482352.731, E=1496702.894, Elev.=5118.017'.		CONTRACTOR	
		NO.	BY	DATE	WORK BY	DATE	DATE
					INSPECTOR'S ACCEPTANCE BY	DATE	DATE
					FIELD LAYOUT BY	DATE	DATE
					DRAWINGS CORRECTED BY	DATE	DATE
					MICRO-FILM INFORMATION	RECORDED BY	DATE
						NO.	DATE



GENERAL NOTES

1. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS THAT APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS.
2. 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.
3. 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 ENGINEER. 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.
4. 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 ENGINEER.
5. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PUBLIC RIGHT-OF-WAY 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.
6. TWO WEEKS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHOULD NOTIFY THE TRANSIT DEPARTMENT OF ANY IMPACT THE PROPOSED PROJECT WILL HAVE ON THE TRANSIT SYSTEM SUCH AS CAUSING A DETOUR, OR CAUSE THE CLOSING OR RELOCATION OF A BUS STOP. THE CONTACT PERSON IS SHABIH RIZVI, OFFICE PHONE 505-724-3134, CELL PHONE 505-331-0253, AND EMAIL SRIZVI@CABQ.GOV AND/OR DOUGLAS GOFF, OFFICE PHONE 505-724-3137, CELL PHONE 505-206-0151, AND EMAIL DGOFF@CABQ.GOV.
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 (E.G. BARRICADING, SURFACE DISTURBANCE).
9. ALL PERMANENT PAVEMENT MARKING AND TRAFFIC SIGNING SHALL BE FURNISHED BY THE CONTRACTOR PER PLAN.
10. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
11. 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.
12. 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.
13. ALL SAWCUT PAVEMENT SHALL HAVE A UNIFORM EDGE AND BE SPRAYED WITH TACK.
14. AT THE CONTRACTOR'S DISCRETION, WHEN ABUTTING NEW CURB AND GUTTER TO EXISTING PAVEMENT, A 1' WIDE SECTION OF EXISTING PAVEMENT ADJACENT TO THE CURB AND GUTTER MAY BE SAWCUT, REMOVED, AND REPLACED AS PER THE STANDARD DRAWINGS.
15. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, CURB & GUTTER, DRIVE PADS, CURB RAMPS, SIGNAGE, 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.
16. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.652.
17. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL CONSTRUCTION SIGNAGE UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE CITY OF ALBUQUERQUE.

18. ALL SWPPP EROSION CONTROL MEASURES MUST BE REMOVED FROM THE RIGHT-OF-WAY PRIOR TO FINAL ACCEPTANCE.
19. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY.
20. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE 9.
21. EXISTING FIBER OPTIC CABLE IS INSTALLED ALONG THE 98TH STREET CORRIDOR AND CENTRAL AVENUE (EAST). IF THIS CABLE, OR ANY OTHER EXISTING CITY TRAFFIC INFRASTRUCTURE IS DAMAGED AS PART OF THIS PROJECT WORK, THE CONTRACTOR SHALL REPAIR OR REPLACE IT PER CITY OF ALBUQUERQUE TRAFFIC REQUIREMENTS. DAMAGED FIBER OPTIC CABLE WILL BE REPLACED FROM EXISTING FULL SPLICE TO EXISTING FULL SPLICE; NO INTERMEDIATE SPLICE WILL BE ALLOWED. THIS WORK SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR AND NO ADDITIONAL PAYMENT WILL BE MADE.
22. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT THE NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
23. 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 OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
24. SEVEN (7) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION SERVICES DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION SERVICES DIVISION. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
25. ALL WORK AFFECTING ARTERIAL ROADWAYS MAY REQUIRE TWENTY-FOUR HOUR CONSTRUCTION IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE'S ORANGE BARREL POLICY. THE CONSTRUCTION SERVICES ENGINEER SHALL DETERMINE IF MARATHON CONSTRUCTION IS REQUIRED AND COORDINATE WITH THE CONTRACTOR.
26. 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.
27. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKING BY THE CONTRACTOR AT THE SAME LOCATION AS EXISTING, OR AS INDICATED BY THIS PLAN SET.
28. 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, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
29. THE CONTRACTOR SHALL RECORD DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. THE CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
30. THE CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE, AND SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
31. THE CONTRACTOR SHALL COORDINATE WITH THE WATER AUTHORITY SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUTOFF OF FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT [HTTP://WWW.ABCWUA.ORG/WATER SHUT OFF AND TURN ON PROCEDURE.ASPX](http://www.abcwua.org/water_shut_off_and_turn_on_procedure.aspx)

32. BUSINESS ACCESS: THE CONTRACTOR SHALL PROVIDE INGRESS AND EGRESS TO LOCAL BUSINESSES AND RESIDENCES FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL ADVISE OF AND SCHEDULE ACCESS CLOSURES, AT LEAST 24 HOURS IN ADVANCE, WITH PROPERTY OWNERS AND THE CITY ENGINEER.
33. INTERSECTION WORK: CRITICAL INTERSECTION WORK SHALL NOT START UNTIL THE CONTRACTOR HAS ALL MATERIAL, EQUIPMENT, AND NECESSARY PERSONNEL ON-SITE. TRAFFIC CONTROL DEVICES SHALL NOT BE PLACED PREMATURELY.
34. THE CONTRACTOR SHALL SUBMIT A PROPOSED WORK PLAN FOR PEDESTRIAN IMPROVEMENTS TO THE PROJECT ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INITIATING THIS WORK. THIS PLAN SHALL INCLUDE THE METHOD PROPOSED TO MAINTAIN PEDESTRIAN ACCESS TO BUSINESSES, SCHOOLS, HOSPITALS, BUILDINGS, ETC. THROUGHOUT THE PEDESTRIAN IMPROVEMENTS CONSTRUCTION IN PARTICULAR. THE CONTRACTOR, AT MINIMUM, SHALL MAINTAIN A 36" CLEAR PATH FOR PEDESTRIANS SO AS TO MEET ADA ACCESSIBILITY REQUIREMENTS.
35. AS-BUILTS: THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THESE PLANS SHALL BE KEPT CURRENT, WITHIN TWO WEEKS, AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY THE PROJECT MANAGER THROUGHOUT THE PROJECT AND WILL BE REVIEWED BY THE PROJECT MANAGER FOR ACCURACY AND COMPLETENESS AT LEAST ONCE EVERY 30 DAYS. THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED AND ACCEPTED BY THE PROJECT ENGINEER PRIOR TO FINAL PAYMENT.
36. NON-VIBRATORY ROLLER: THE CONTRACT SHALL BE RESTRICTED TO THE USE OF A 35 TON MAXIMUM NON-VIBRATORY ROLLER TO OBTAIN THE REQUIRED COMPACTION IN PAVEMENT STRUCTURE, ROADWAY BACKFILL, EMBANKMENT, AND SUBGRADES IN URBAN AREAS WHERE THE USE OF HEAVIER EQUIPMENT COULD DAMAGE UNDERGROUND UTILITIES OR OTHER PERMANENT STRUCTURES.
37. EXISTING TIE-IN: ALL NEW STREET PAVING, CURB AND GUTTER, SIDEWALKS OR DRIVEPADS SHALL MATCH THE ELEVATIONS OF ABUTTING EXISTING AREAS AS SHOWN IN THE PLANS OR AS DIRECTED BY THE PROJECT ENGINEER.
38. SALVAGEABLE MATERIALS FROM THIS PROJECT ARE TO BE HAULED AND STOCKPILED AT THE CITY OF ALBUQUERQUE PINO YARDS. HAUL OF SUCH MATERIAL SHALL BE PERFORMED DURING NORMAL WORKING HOURS AS DIRECTED BY THE PROJECT ENGINEER. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR EACH SALVAGE ITEM.
39. THE DESIGN R-VALUE IS 50. MATERIALS ENCOUNTERED WITH R-VALUE LESS THAN 50 SHALL BE REMOVED AND RECONDITIONED OR REPLACED TO A DEPTH OF 2 FEET BELOW FINISHED SUBGRADE. IMPORTED MATERIALS SHALL CONFORM TO CITY STANDARDS.
40. REMOVAL OF EXISTING CURB AND GUTTER SHALL BE TO THE NEAREST JOINT.
41. THE REMOVAL OF PAVEMENT MARKINGS SHALL CONFORM TO THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS, STANDARD DETAILS (SECTION 2900) AND THE CURRENT EDITION OF THE MUTCD (WITH REVISIONS).

LEGEND

- ⓘ

EXISTING TELEPHONE MANHOLE
- ⋈

EXISTING WATER VALVE
- WM

EXISTING WATER METER BOX
- |—

EXISTING SINGLE POST SIGN
- ⊗

EXISTING LIGHT POLE
- ⓔ

EXISTING ELECTRIC BOX/PANEL
- ⓪

EXISTING TRAFFIC SIGNAL
- Ⓟ

EXISTING ELECTRIC PULLBOX
- Ⓜ

EXISTING ELECTRIC MANHOLE

RECORD DRAWING  
Sept. 29, 2016



REVISIONS  
DESIGN

DESIGNED BY	NLA	DATE	5/2016
DRAWN BY	NLA	DATE	5/2016
CHECKED BY	KEA	DATE	5/2016

UTILITY COMPANY CONTACTS

**PNM-ELECTRIC**  
ANDREA CONTRERAS  
Project Manager  
4625 Edith Blvd., NE  
Albuquerque, New Mexico 87107  
(505) 241-3666

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

**NEW MEXICO GAS CO.**  
EARL HASKINS  
4625 Edith Blvd., NE  
Albuquerque, New Mexico 87107  
(505) 697-3140

**COMCAST CABLE**  
ARTJAMEL DAVIS  
Construction Coordinator  
8000 E. Iliff Ave.  
Denver, Co 80231  
(303) 603-7682

**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

**CENTURY LINK**  
JAMES ARAGON  
Area Engineer  
201 3rd Street NW Room 700  
Albuquerque, New Mexico 87102  
(505) 245-6374

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

**ABCWUA  
(WATER & SEWER)**  
DAVID LAUGHLIN  
SENIOR ENGINEER  
P.O. Box 568  
Albuquerque, New Mexico 87103  
(505) 289-3035

**MCLEODUSA**  
RICK MUELLER  
Supervisor of Outside Techs.

**CITY OF ALBUQUERQUE**  
MATTHEW YANNONI  
Traffic Operations  
One Civic Plaza, Traffic Ops  
PO BOX 1293  
Albuquerque, NM 87103  
(505) 238-5697






		CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION	
TITLE: CENTRAL AVENUE AND 98th STREET LEFT TURN AND TRAFFIC SIGNAL MODIFICATIONS GENERAL NOTES			
Design Review Committee	City Engineer Approval	Mo. / Day / Yr.	Mo. / Day / Yr.
City Project No.	Zone Map No.	Sheet	Of
904307	K-9	3	14



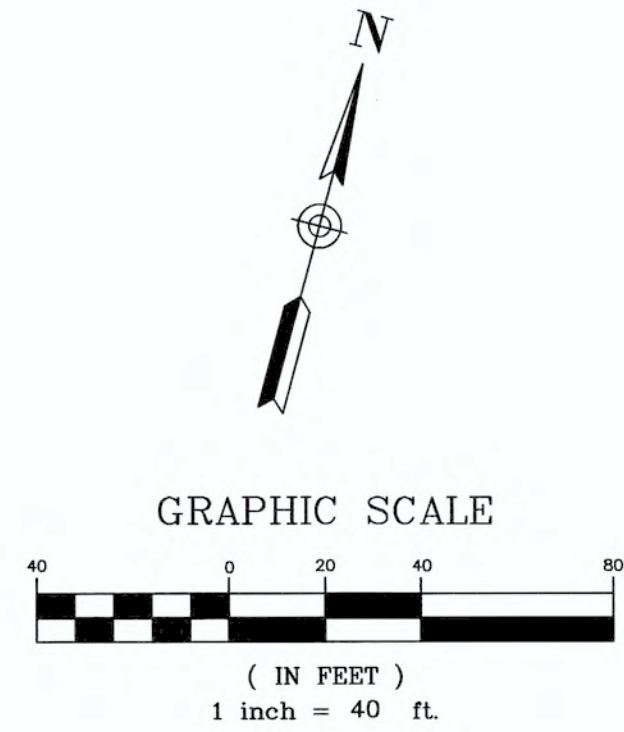
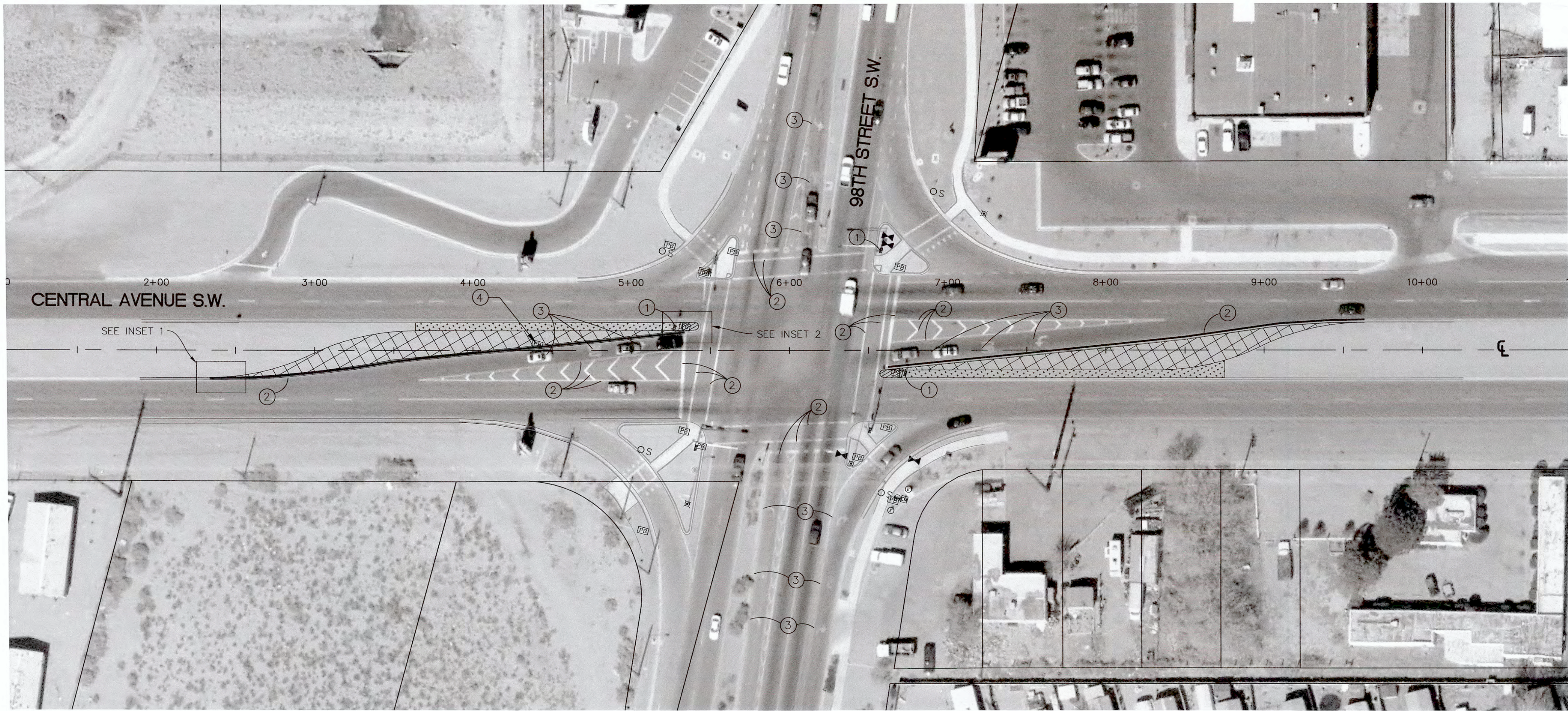
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ITEM NO.	DESCRIPTION	UNIT	QTY.
4.01	CONSTRUCTION STAKING, COMPL	CRW HRS	14
6.01	CONSTRUCTION PROJECT SIGN, PER CONTRACT SPECIAL PROVISIONS, CIP	EA	2
6.05	CONSTRUCTION MOBILIZATION, COMPL	%	5%
6.06	CONSTRUCTION DEMOBILIZATION, COMPL	%	5%
19.010	CONSTRUCTION TRAFFIC CONTROL & BARRICADING, COMPL	LS	LS
116.02	PLACEMENT ARTERIAL ASPHALT CONCRETE, 2 INCH LIFT, CIP	SY	2,000
202.011	EXCAVATE & DISPOSE OF UNSUITABLE MATERIAL, COMPL.	CY	370
301.02	SUBGRADE PREP. 12" AT 95% COMPACTION, CIP	SY	800
302.015	AGGREGATE BASE COURSE, CRUSHED, 4" AT 95% COMPACTION, CIP. SD 2408	SY	1,260
329.01	SEAL COAT, PLANT MIX, 5/8" THICK, CIP. SD 2408	SY	630
336.01	PRIME COAT, EMULSIFIED ASPHALT, CIP	SY	630
336.022	ASPHALT CONCRETE, 2 INCH THICK, SUPERPAVE, COMPL	SY	2,000
336.12	TACK COAT, CATIONIC EMULSIFIED ASPHALT, CIP	SY	1,260
340.06	CURB & GUTTER, MEDIAN, PORTLAND CEMENT CONCRETE, CIP. SD 2408	LF	660
343.04	EXISTING PAVEMENT, PC CONCRETE, UP TO 4" THICK, SAWCUT, REMOVE & DISPOSE, COMPL	SY	20
343.08	EXISTING CURB & GUTTER OR VALLEY GUTTER, PC CONCRETE, REMOVE & DISPOSE, COMPL.	LF	650
346.1	TEXTURED MEDIAN PAVEMENT, 4" THICK, COLORED PC CONCRETE, INCL. SUBGRADE COMPACTION, CIP. SD 2408	SF	2,100
424.006	ELECTRICAL CONDUIT, 2", INCL TRENCHING, BACKFILL, PATCHING, PUSHING, BORING & JACKING, CIP	LF	20
425.100	ELECTRICAL PULL BOX, ANY TYPE, ADJUST TO GRADE, CIP	EA	2
425.101	ELECTRICAL PULL BOX, ANY TYPE, REMOVE & DISPOSE, COMPL	EA	1
426.101	MULTI-CONDUCTOR CABLE, #5, CIP	LF	20
427.002	3 SECTION TRAFFIC SIGNAL ASSEMBLY, CIP	EA	4
427.101	TRAFFIC SIGNAL ASSEMBLY, ANY TYPE, REMOVE & SALVAGE, COMPL	EA	3
428.001	LOOP VEHICLE DETECTOR, CIP	EA	4
428.022	DUCTED LOOP DETECTOR WIRE, CIP	LF	1,600
428.05	LOOP LEAD-IN CABLE, CIP	LF	320
428.06	DETECTOR SAW CUT, COMPL.	LF	600
441.001	REFLECTORIZED PLASTIC PAVEMENT MARKINGS, 4" WIDTH, CIP	LF	4,250
441.003	REFLECTORIZED PLASTIC PAVEMENT MARKINGS, 8" WIDTH, CIP	LF	310
441.005	REFLECTORIZED PLASTIC PAVEMENT MARKINGS, 24" WIDTH, CIP	LF	800
441.01	REFLECTORIZED PLASTIC ARROW, RIGHT, CIP	EA	2
441.011	REFLECTORIZED PLASTIC ARROW, LEFT, CIP	EA	11
441.02	REFLECTORIZED PLASTIC WORD, ONLY, CIP	EA	7
443.101	REMOVAL OF PAVEMENT STRIPE, ANY WIDTH, PAINTED OR PLASTIC, COMPL	LF	1,820
443.102	REMOVAL OF PAVEMENT ARROW, SYMBOL, OR WORD, PAINTED OR PLASTIC, COMPL	EA	15
450.001	ALUMINUM PANEL SIGN, CIP	SF	15

ENGINEERS SEAL				SURVEY INFORMATION				BENCH MARKS				AS BUILT INFORMATION							
				NO.		BY		DATE		The station mark is a City of Albuquerque survey control 3 1/4" aluminum disc set in a concrete post 0.5' above ground and is stamped "14-K9 2002". The station is located in the NW quadrant of the 86th Street/Bridge Blvd. intersection. Datum: NAD 83, elevations based on NAVD 88 datum. N=1492352.731, E=1496702.894, Elev.=5118.017'.				CONTRACTOR		WORK STARTED BY		DATE	
														INSPECTOR'S ACCEPTANCE BY		DATE			
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														MICRO-FILM INFORMATION					
DESIGNED BY		N/A		DATE		5/2016				RECORDED BY				DATE					
DRAWN BY		N/A		DATE		5/2016				NO.									
CHECKED BY		KEA		DATE		5/2016													

		CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION	
TITLE: CENTRAL AVENUE AND 98th STREET LEFT TURN AND TRAFFIC SIGNAL MODIFICATIONS ESTIMATED QUANTITIES			
Design Review Committee		City Engineer Approval	
			
City Project No. 904307		Zone Map No. K-9	Sheet 4 Of 14





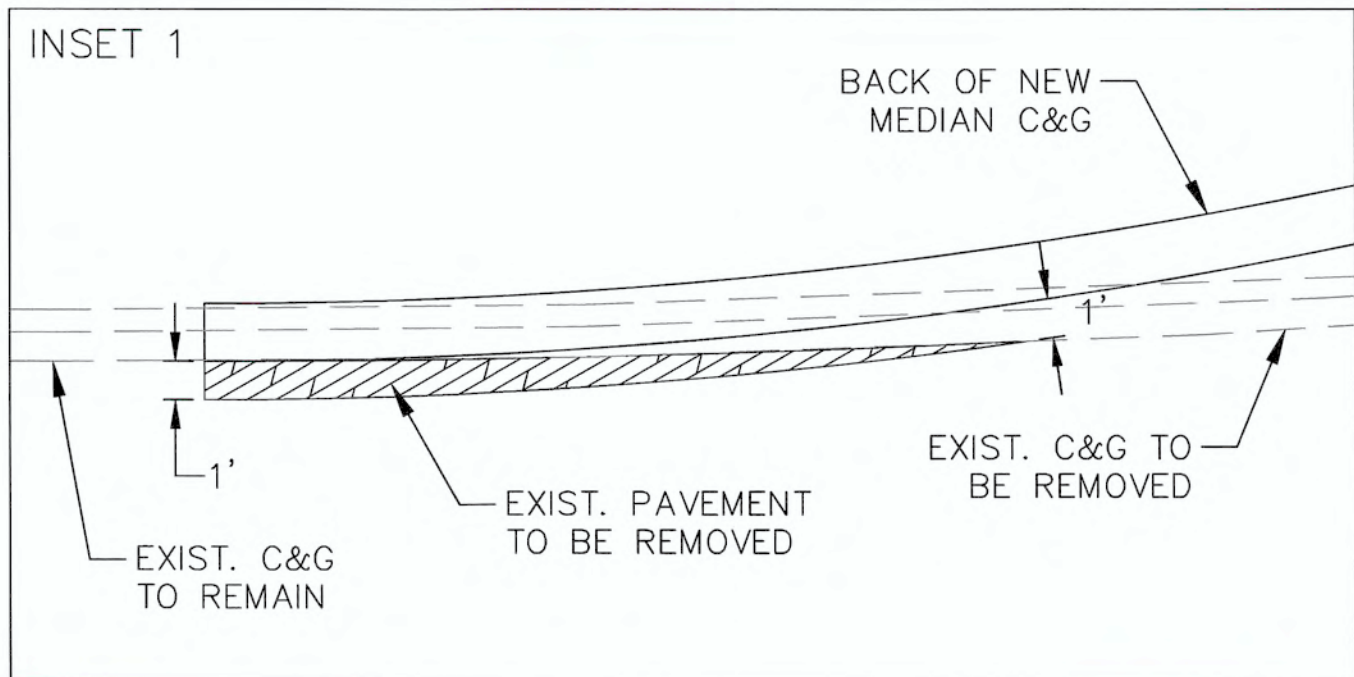
LEGEND & KEYED NOTES

- REMOVE AND DISPOSE EXISTING MEDIAN C&G
- ⊠ REMOVE AND DISPOSE EXISTING MEDIAN MATERIAL TO SUBGRADE ELEVATION, TYPICAL DEPTH = 20"
- ▨ REMOVE AND DISPOSE EXISTING MEDIAN MATERIAL TO A DEPTH OF 4" (TO BOTTOM OF NEW CONC. MEDIAN PAVEMENT)
- ▨ REMOVE AND DISPOSE EXISTING CONC. MEDIAN PAVEMENT
- ① REMOVE & SALVAGE EXISTING 5-SECTION HEAD
- ② REMOVE EXISTING PAVEMENT STRIPE
- ③ REMOVE EXISTING ARROW OR WORD
- ④ REMOVE AND DISPOSE EXISTING PULL BOX

NOTES

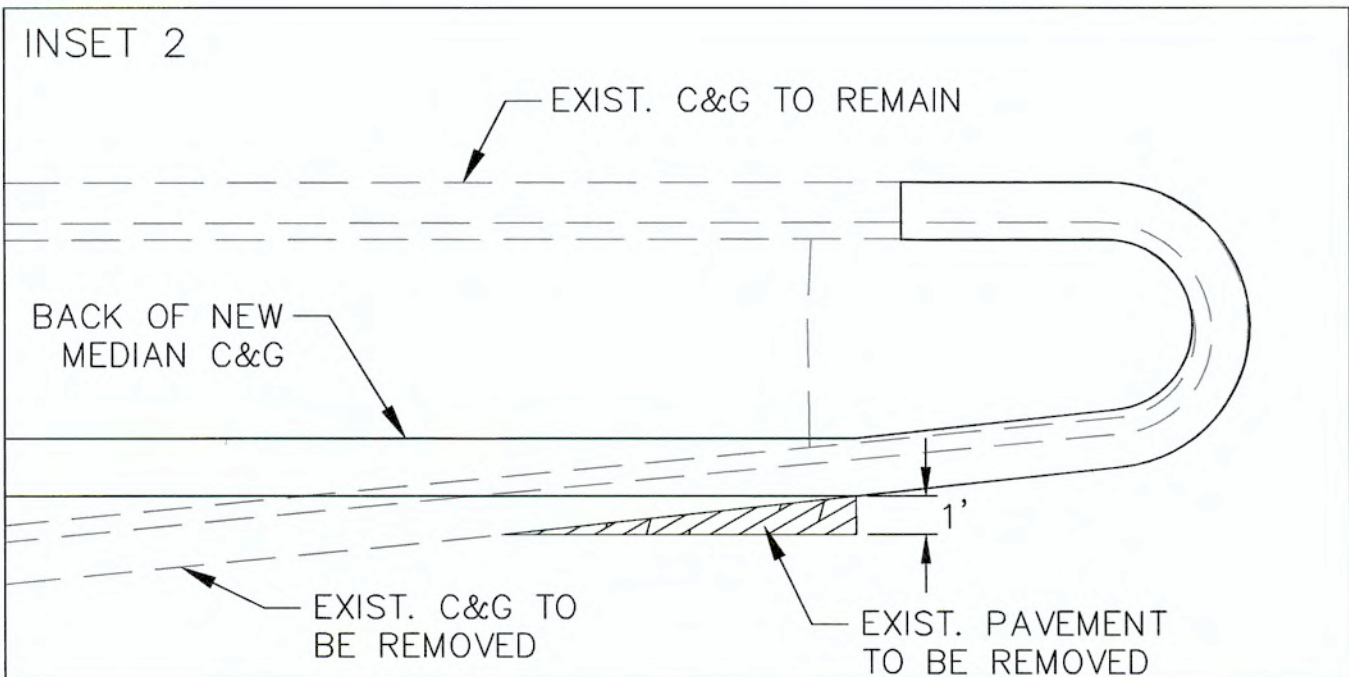
1. REMOVAL OF EXISTING CURB AND GUTTER SHALL BE TO THE NEAREST JOINT.
2. REMOVAL OF EXISTING PAVEMENT (SEE INSETS) SHALL BE PAID UNDER ITEM NO. 343.04 EXISTING PAVEMENT, PC CONCRETE, UP TO 4" THICK, SAWCUT, REMOVE & DISPOSE, COMPL.

RECORD DRAWING  
Sept. 29, 2016



PAVEMENT REMOVAL DETAIL (TYP.)

SCALE: 1"=5'



PAVEMENT REMOVAL DETAIL AT NOSE (TYP.)

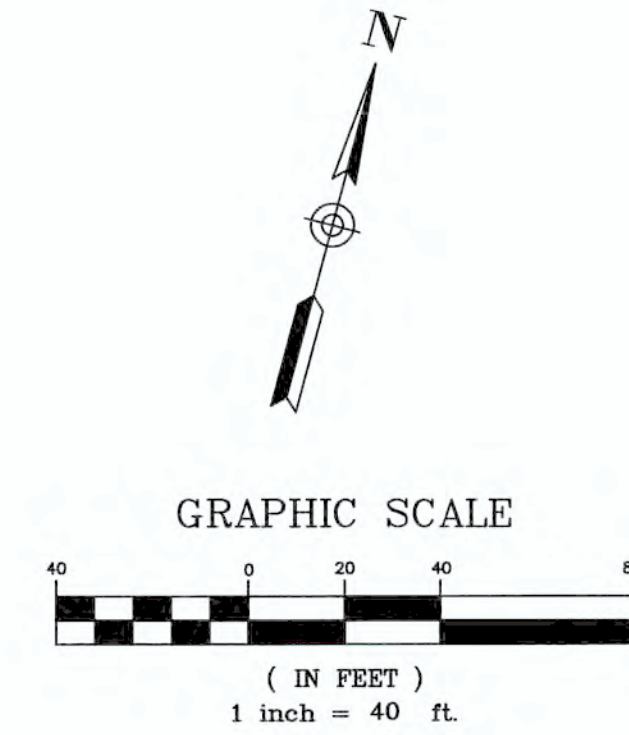
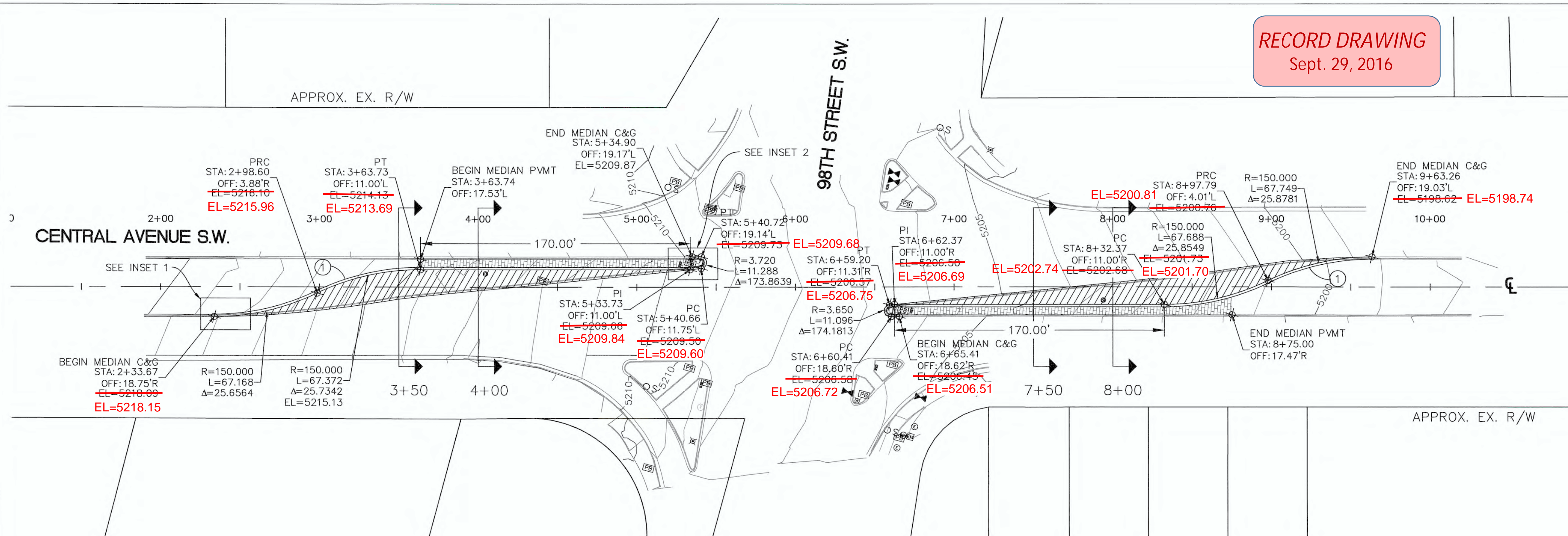
SCALE: 1"=5'

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEERS SEAL	
CONTRACTOR	WORK TO BY	The station mark is a City of Albuquerque survey control 3 1/4" aluminum disc set in a concrete post 0.5' above ground and is stamped "14-K9-2002". The station is located in the NW quadrant of the 86th Street/Bridge Blvd. intersection. Datum: NAD 83, elevations based on NAVD 88 datum: N=1482352.731, E=1496702.894, Elev.=5118.017.	DATE	DATE	DATE	DATE	DATE
INSPECTOR'S ACCEPTANCE BY	DATE		BY	NO.	REMARKS	DESIGNED BY	DESIGNED BY
VERIFICATION BY	DATE				REVISIONS	DRAWN BY	DRAWN BY
DRAWINGS CORRECTED BY	DATE				DESIGN	CHECKED BY	CHECKED BY
PROJECT INFORMATION							
NO.							



CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION	
TITLE: CENTRAL AVENUE AND 98th STREET LEFT TURN AND TRAFFIC SIGNAL MODIFICATIONS REMOVALS PLAN	
Design Review Committee APPROVED JUN 09 2016 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED JUN 09 2016 CITY ENGINEER
City Project No. 904307	Zone Map No. K-9
Sheet 5	Of 14



*RECORD DRAWING*  
Sept. 29, 2016

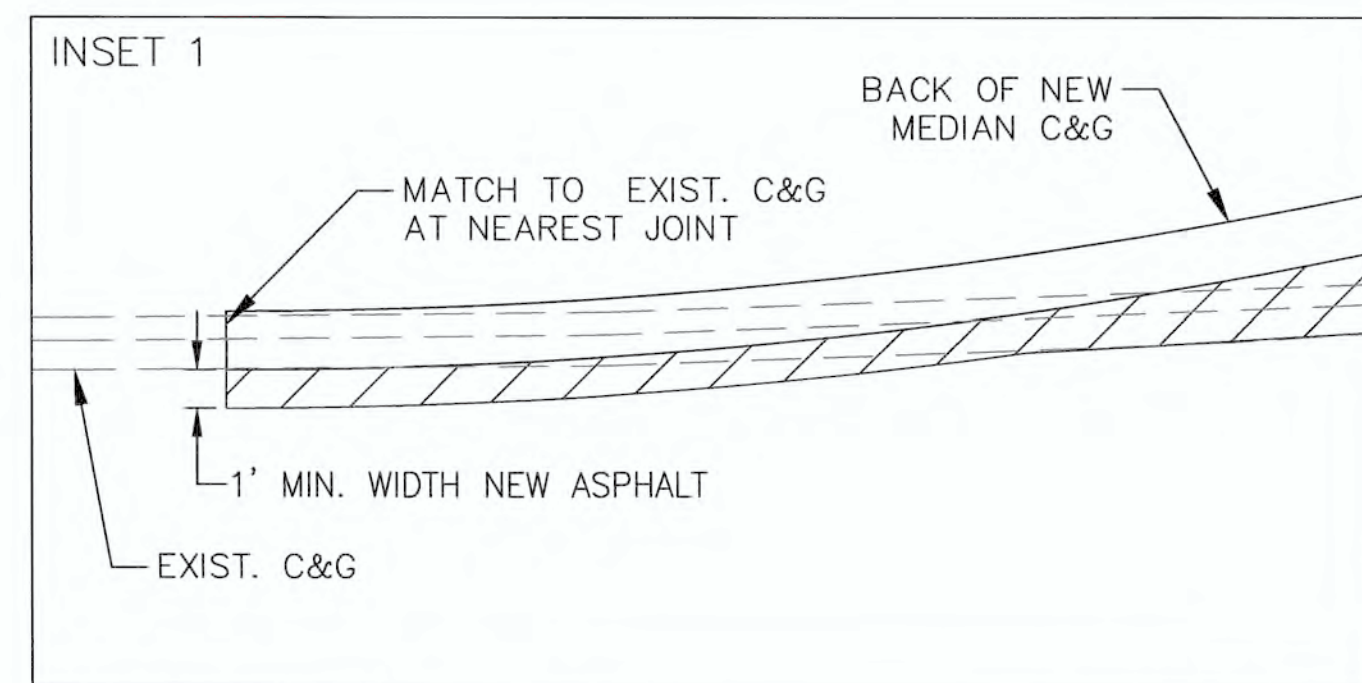


### LEGEND

- ① CONSTRUCT MEDIAN C&G (PER SD 2415B)
-  NEW ASPHALT PAVEMENT (PER PAVEMENT SECTION BELOW AND SD 2407 & 2408)
-  NEW PATTERNED CONC. MEDIAN PAVEMENT (PER SD 2408). COLOR AND PATTERN TO MATCH EXISTING.

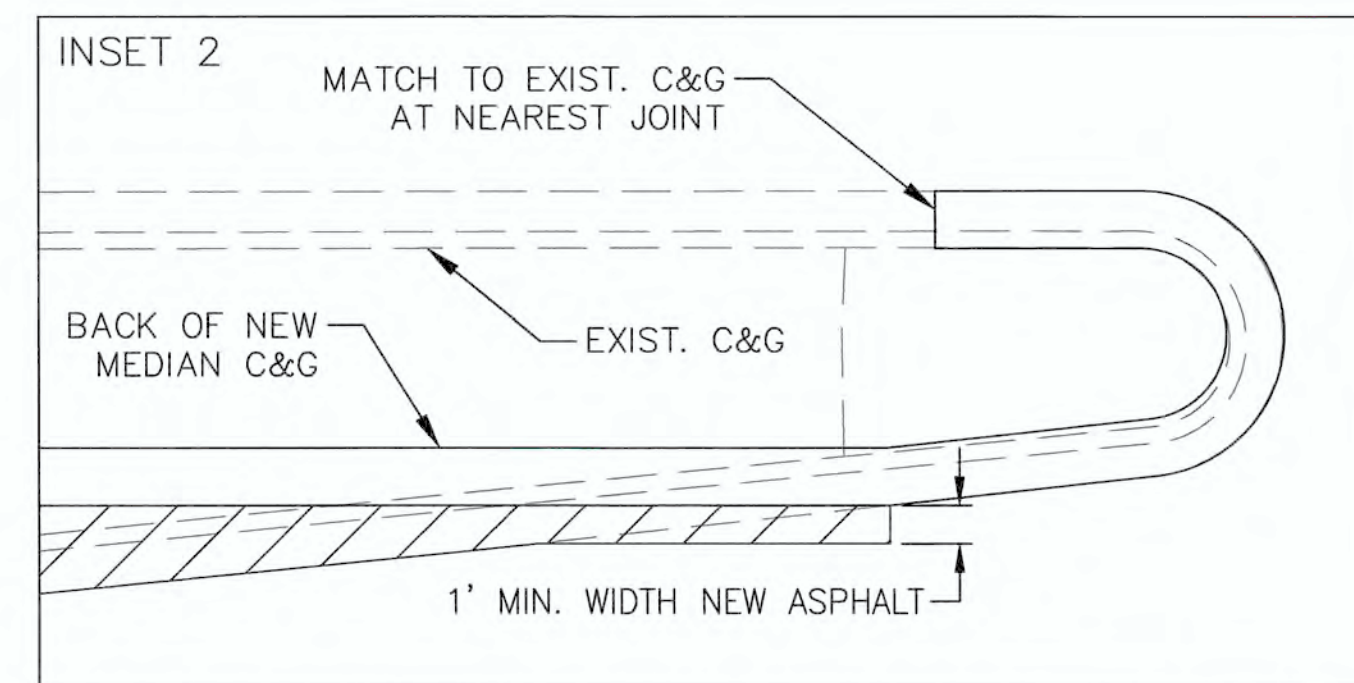
## NOTES

1. STA/OFFSET, ELEVATION AND RADIUS GIVEN TO LIP OF C&G.



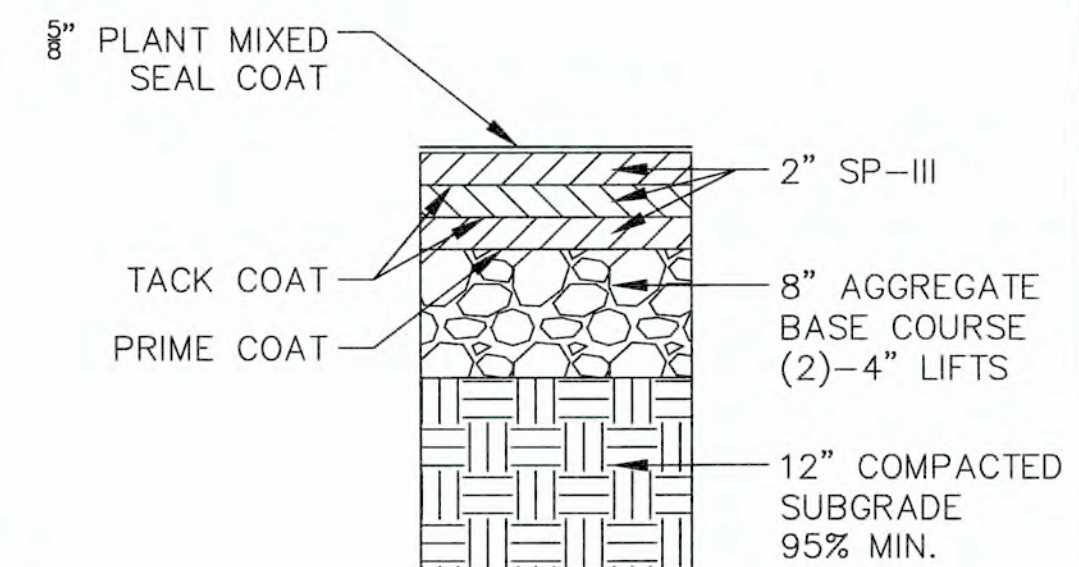
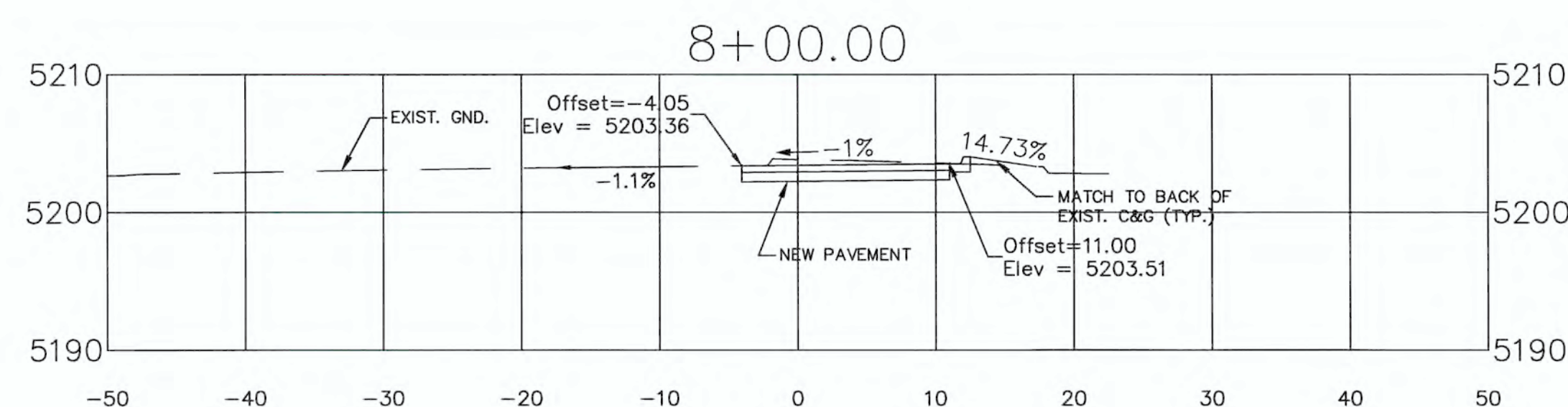
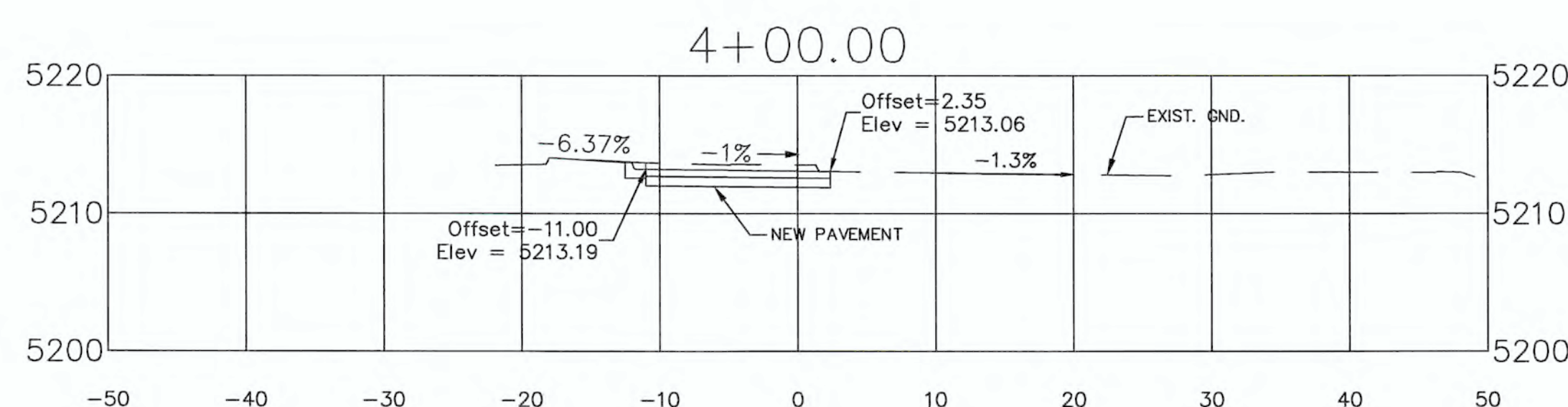
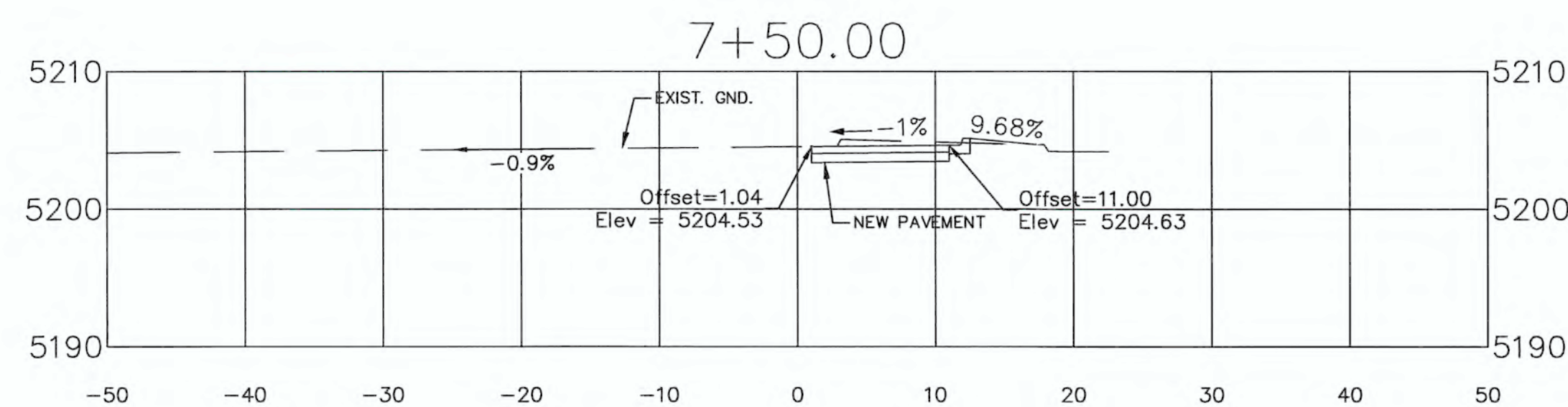
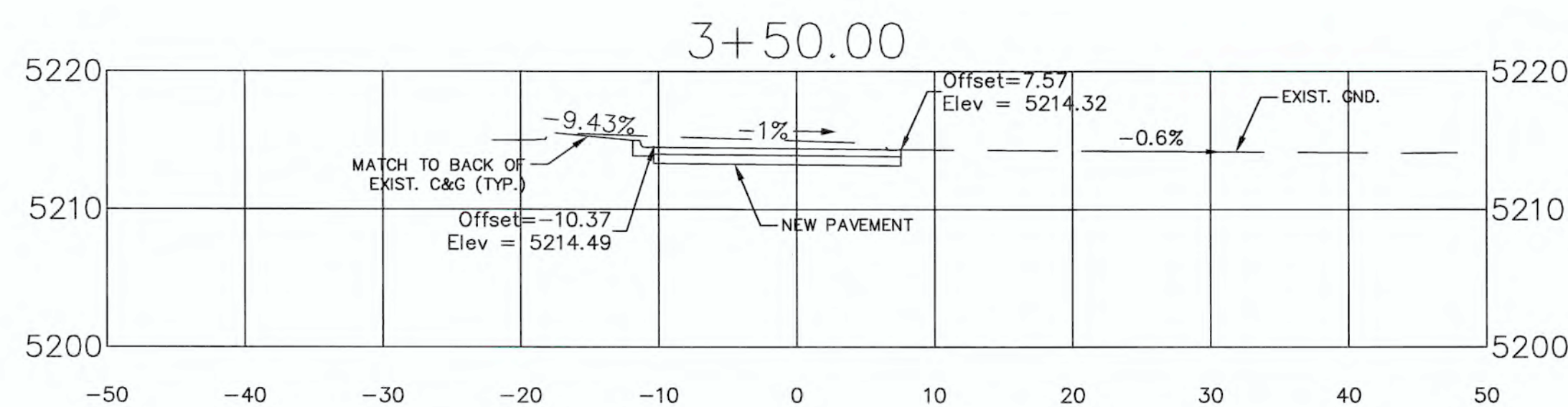
PAVEMENT DETAIL (TYP.)

SCALE: 1"=5'




PAVEMENT DETAIL AT NOSE (TYP.)

SCALE: 1"=5'

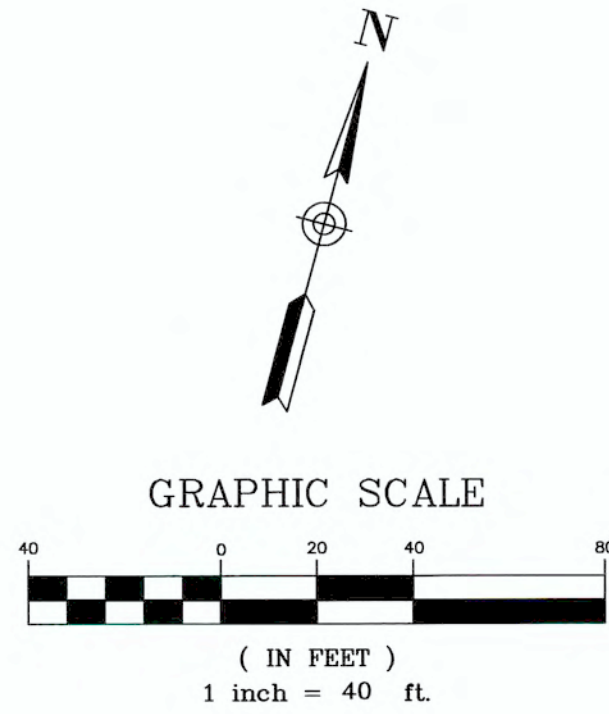
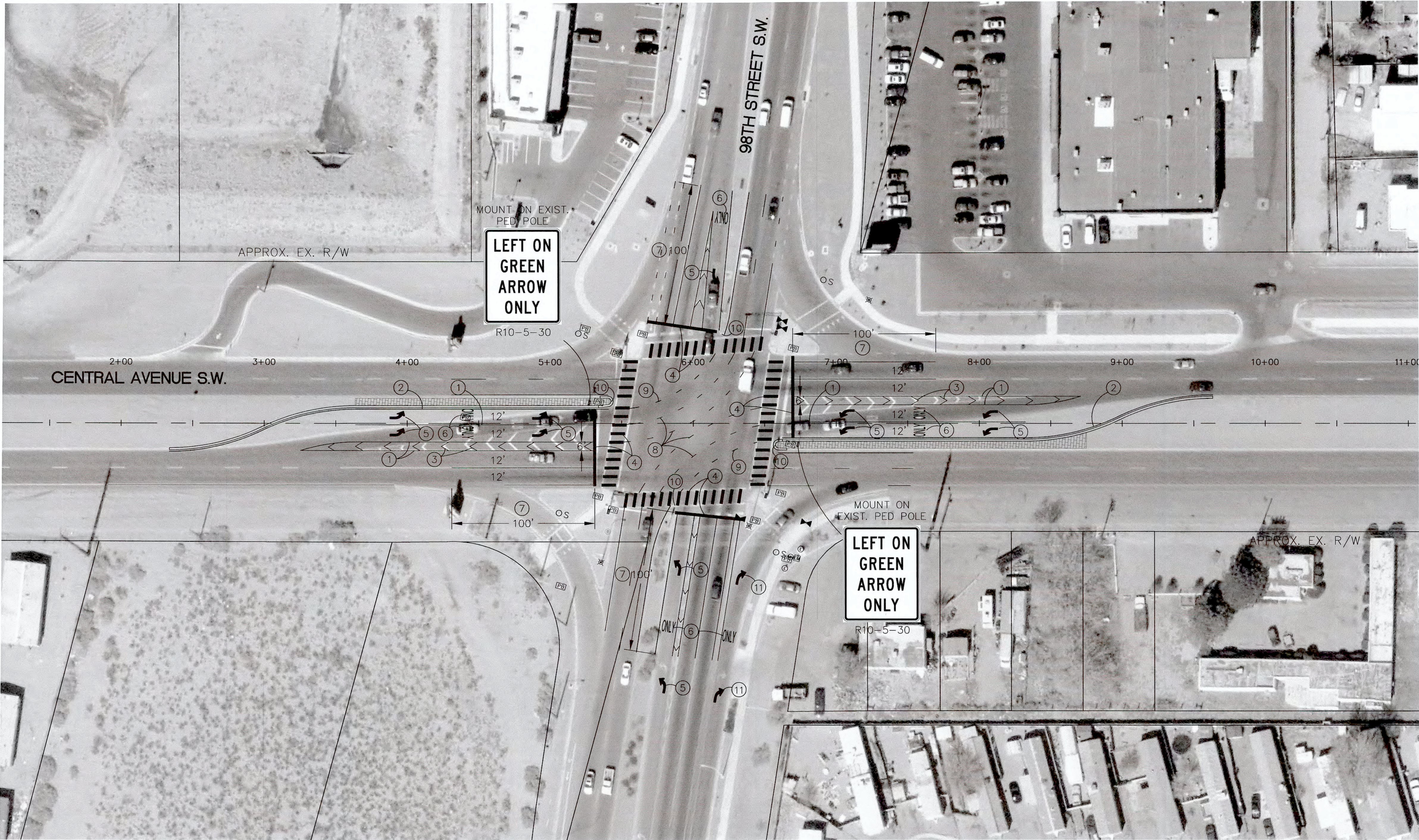


PAVEMENT SECTION

NOTE: HMA DEPTH BASED ON PAVEMENT CORES. N.T.S.

	CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION											
TITLE: CENTRAL AVENUE AND 98th STREET LEFT TURN AND TRAFFIC SIGNAL MODIFICATIONS ROADWAY PLAN VIEW												
Design Review Committee <div style="border: 2px solid blue; padding: 10px; text-align: center; margin-top: 10px;">                     APPROVED                      JUN 09 2016                      DESIGN                      REVIEW COMMITTEE                 </div>	City Engineer Approval <div style="border: 2px solid blue; padding: 10px; text-align: center; margin-top: 10px;">                     APPROVED                      JUN 09 2016                      CITY ENGINEER                 </div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Mo. / Day / Yr.</th> <th style="width: 50%; text-align: center;">Mo. / Day / Yr.</th> </tr> </thead> <tbody> <tr><td style="height: 30px;"></td><td></td></tr> <tr><td style="height: 30px;"></td><td></td></tr> <tr><td style="height: 30px;"></td><td></td></tr> <tr><td style="height: 30px;"></td><td></td></tr> </tbody> </table>	Mo. / Day / Yr.	Mo. / Day / Yr.								
Mo. / Day / Yr.	Mo. / Day / Yr.											
City Project No. 904307	Zone Map No. K-9	Sheet      Of <div style="text-align: center; font-size: 2em; margin-top: 10px;">6      14</div>										





**RECORD DRAWING**  
Sept. 29, 2016




LEGEND

- ① 4" HOT THERMOPLASTIC SOLID WHITE STRIPE
- ② 4" HOT THERMOPLASTIC SOLID YELLOW STRIPE (PLACE EDGE OF STRIPE AT LIP OF GUTTER)
- ③ 8" HOT THERMOPLASTIC WHITE CHEVRONS @ 20' O.C.
- ④ 24" HOT THERMOPLASTIC WHITE SOLID WHITE STRIPE
- ⑤ HOT THERMOPLASTIC PAVEMENT MARKING LEFT ARROW
- ⑥ HOT THERMOPLASTIC PAVEMENT MARKING WORD "ONLY"
- ⑦ RESTRIPE EXISTING PAVEMENT MARKINGS
- ⑧ 4" HOT THERMOPLASTIC DASHED WHITE STRIPE (2' STRIPE/4' GAP)
- ⑨ 4" HOT THERMOPLASTIC DASHED YELLOW STRIPE (2' STRIPE/4' GAP)
- ⑩ PAINT MEDIAN NOSE YELLOW
- ⑪ HOT THERMOPLASTIC PAVEMENT MARKING RIGHT ARROW

NOTES

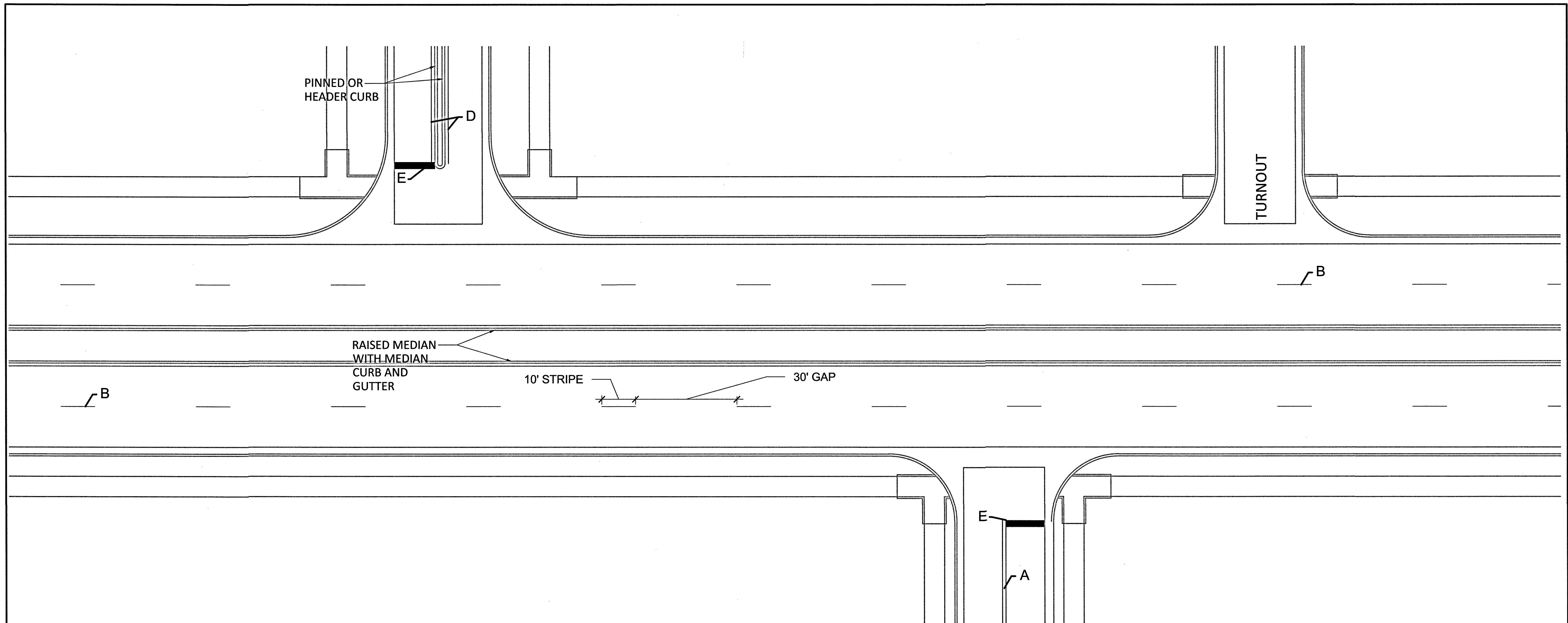
- 1. SEE COA DWGS. 2009-103, 2009-105, 2009-106 AND 2900-107 (SHEETS 8 THROUGH 10) FOR DETAILS.
- 2. CROSSWALK STRIPING SHALL BE CONTINENTAL STYLE AND SHALL NOT HAVE THE OPTIONAL TRANSVERSE STRIPING SHOWN ON COA DWG. 2900-106.
- 3. SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE MUTCD.
- 4. PAINT FOR MEDIAN NOSES SHALL BE PAID FOR UNDER ITEM NO. 441.001 REFLECTORIZED PLASTIC PAVEMENT MARKINGS, 4" WIDTH, CIP, IN 4" INCREMENTAL WIDTHS.

ENGINEERS SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	DATE	REMARKS	BY	DATE	The station mark is a City of Albuquerque survey control 3 1/4" aluminum disc set in a concrete post 0.5' above ground and is stamped "14-K9 2002". The station is located in the NW quadrant of the 86th Street/Bridge Blvd. intersection. Datum: NAD 83, elevations based on NAVD 88 datum: N=1482352.731, E=1496702.894, Elev.=5118.017'.		CONTRACTOR
DESIGNED BY		NLA	DATE	5/2016	WORK ORDER NO.		
DRAWN BY		NLA	DATE	5/2016	INSPECTOR'S ACCEPTANCE BY		
CHECKED BY		KEA	DATE	5/2016	VERIFICATION BY		
					DRAWINGS CONTROLLED BY		
					MICRO-FILM INFORMATION		
					RECORDED BY		
					DATE		

		CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION	
TITLE: CENTRAL AVENUE AND 98th STREET LEFT TURN AND TRAFFIC SIGNAL MODIFICATIONS SIGNING AND STRIPING PLAN			
Design Review Committee	City Engineer Approval	Mo. / Day / Yr.	Mo. / Day / Yr.
			
City Project No.	Zone Map No.	Sheet	Of
904307	K-9	7	14



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**STRIPING KEY:**

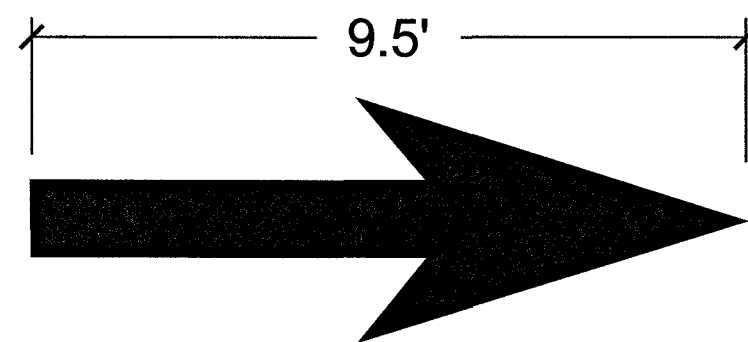
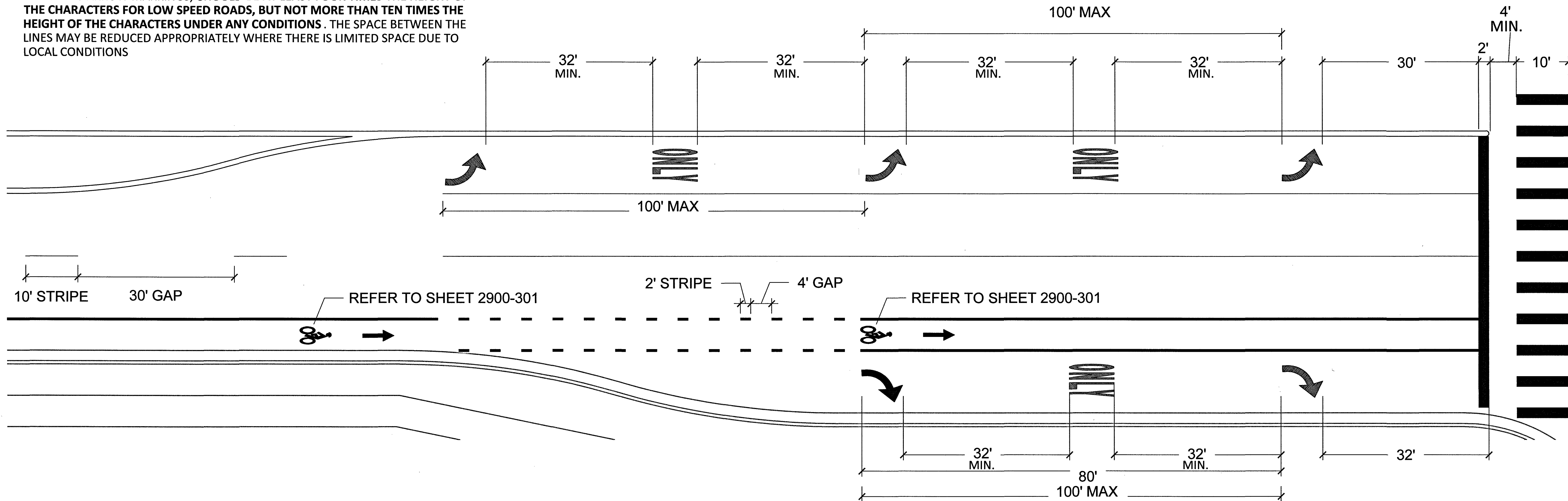
- A. 4" SOLID DOUBLE YELLOW RETROREFLECTIVE PAVEMENT STRIPE
- B. 4" DASHED WHITE RETROREFLECTIVE PAVEMENT STRIPE (10' STRIPE, 30' GAP)
- C. NOT USED
- D. 4" SOLID YELLOW RETROREFLECTIVE PAVEMENT STRIPE (USE WITH PINNED OR HEADER CURB)
- E. 24" SOLID WHITE RETROFEREFLECTIVE PAVEMENT STRIPE

REVISIONS	CITY OF ALBUQUERQUE
	ROADWAY STRIPING
	LANE STRIPING
	DWG. 2900-103 FEBRUARY 2014

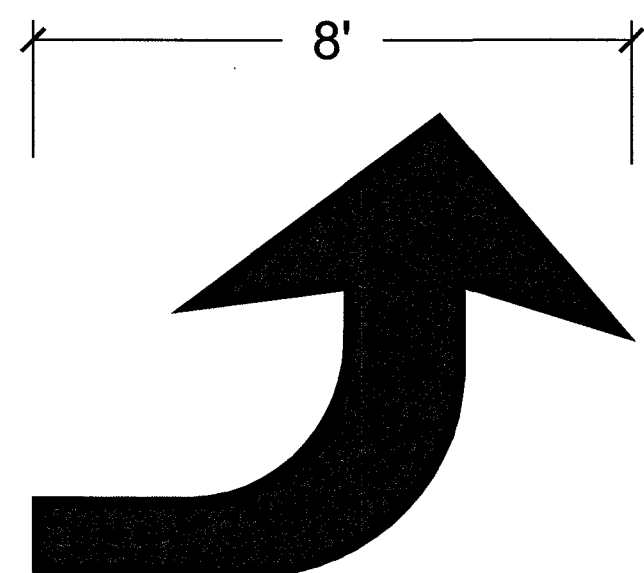


PAVEMENT MARKING DETAILS - TURN BAY

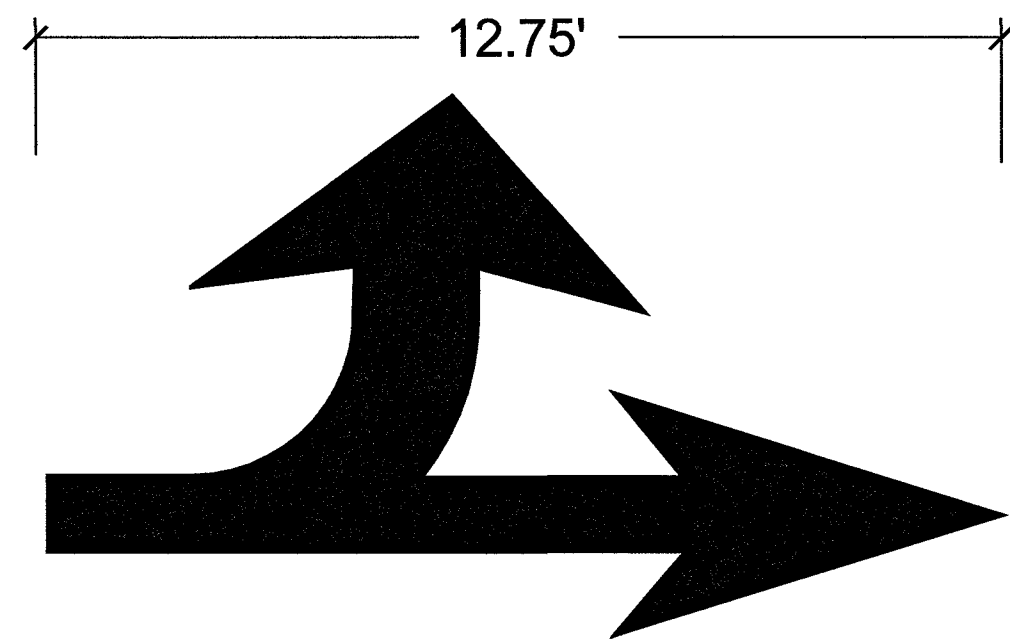
1. FOR TURN BAYS LESS THAN 100' IN LENGTH, APPLY JUST ONE (1) ARROW.
2. FOR TURN BAYS 100' OR GREATER IN LENGTH, APPLY ADDITIONAL ARROWS AS SHOWN.
3. THE **LONGITUDINAL SPACE BETWEEN WORD OR SYMBOL MESSAGE MARKINGS**, INCLUDING ARROW MARKINGS, **SHOULD BE AT LEAST FOUR TIMES THE HEIGHT OF THE CHARACTERS FOR LOW SPEED ROADS, BUT NOT MORE THAN TEN TIMES THE HEIGHT OF THE CHARACTERS UNDER ANY CONDITIONS**. THE SPACE BETWEEN THE LINES MAY BE REDUCED APPROPRIATELY WHERE THERE IS LIMITED SPACE DUE TO LOCAL CONDITIONS



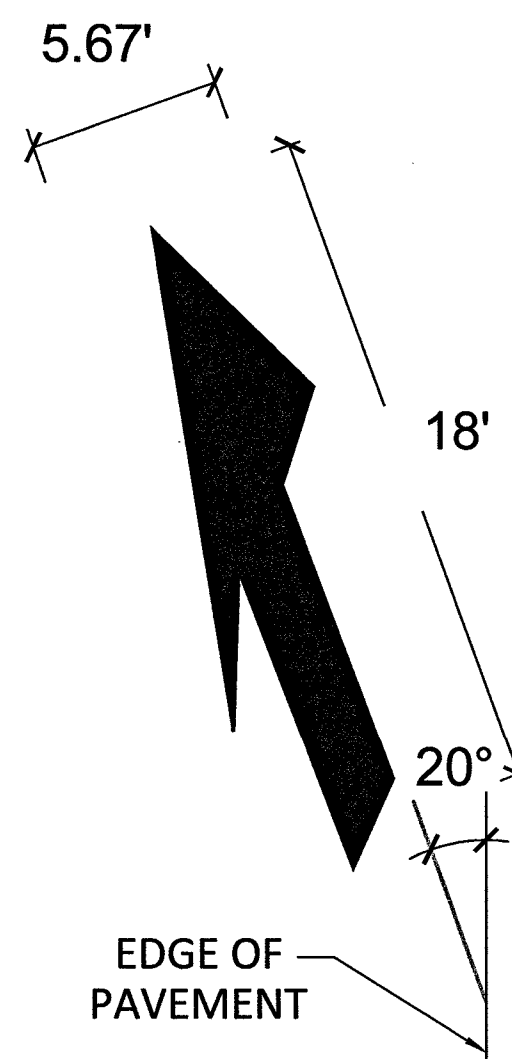
THROUGH LANE-USE ARROW



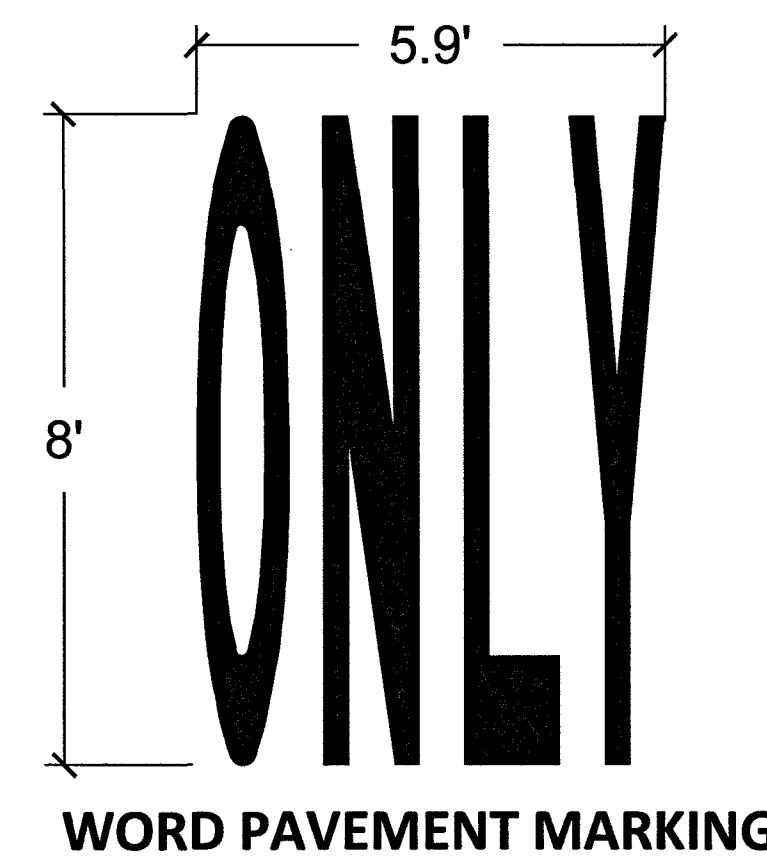
TURN LANE-USE ARROW



TURN AND THROUGH LANE-USE ARROW



LANE-REDUCTION ARROW



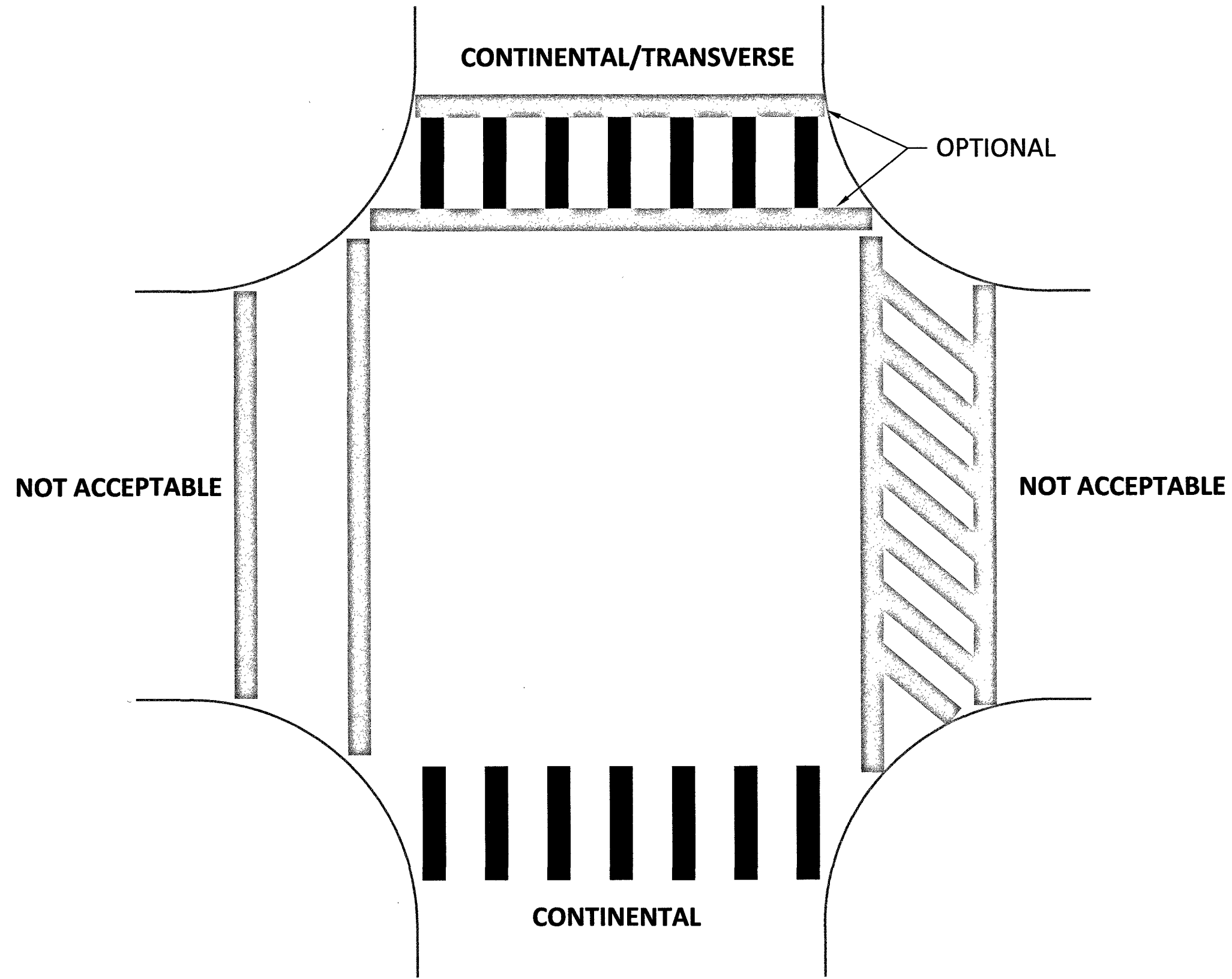
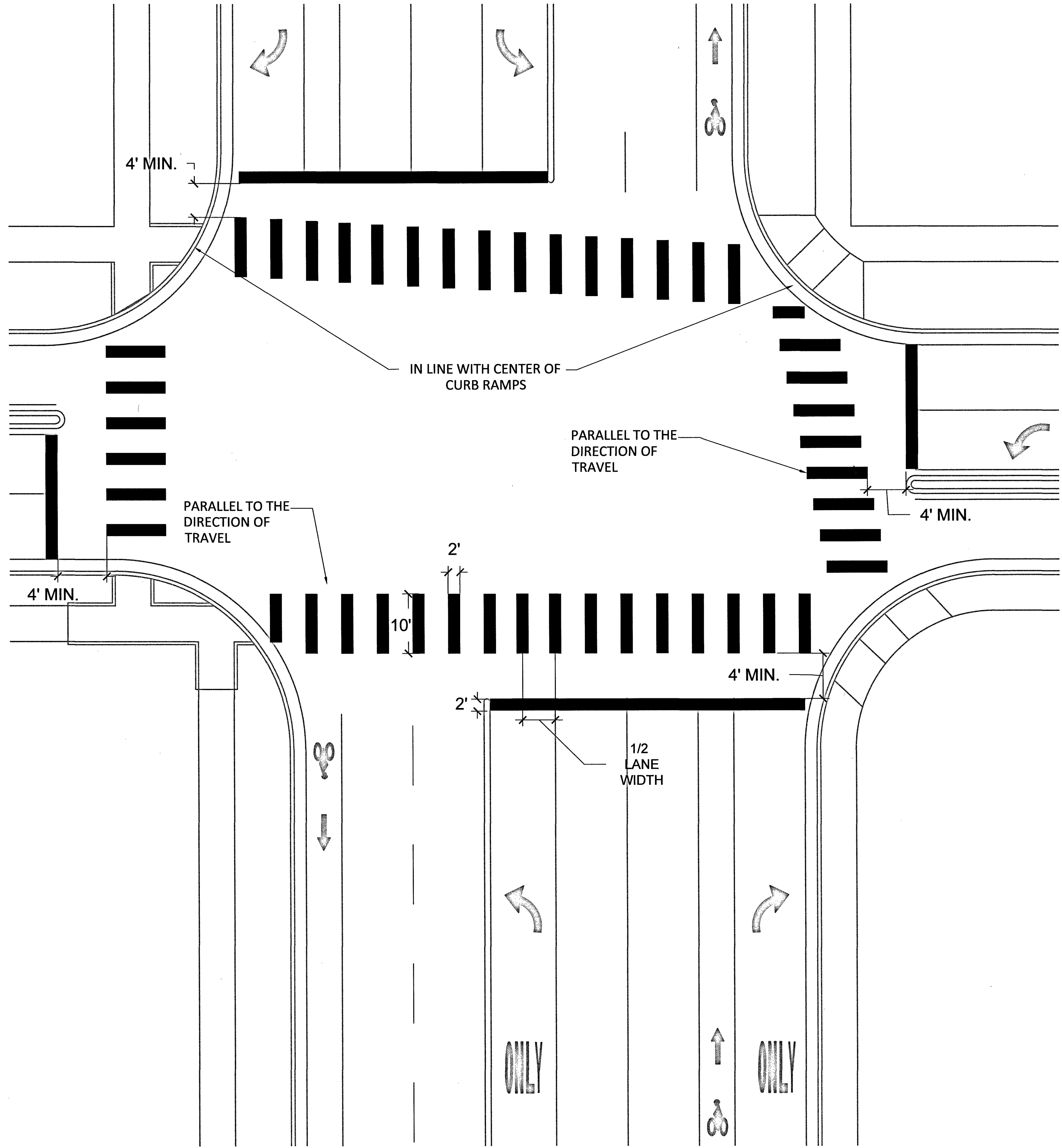
WORD PAVEMENT MARKING

STANDARD ARROWS FOR PAVEMENT MARKINGS

REVISIONS	CITY OF ALBUQUERQUE
	ROADWAY STRIPING
	TURN BAY & PAVEMENT MARKING DETAILS
	DWG. 2900-105 FEBRUARY 2014



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**CROSSWALK MARKING NOTES:**

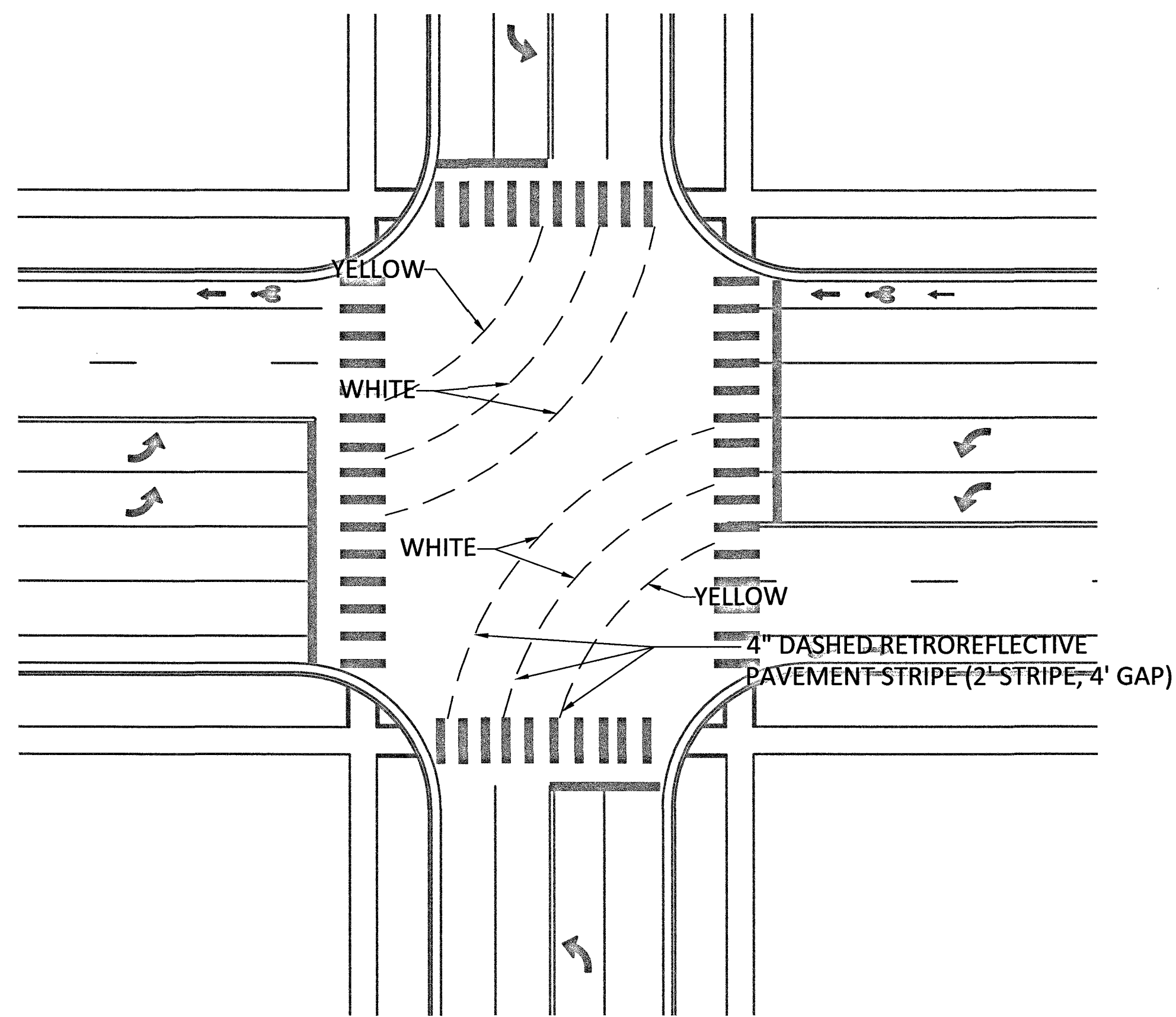
1. WHEN CROSSWALK LINES ARE APPLIED THE "CONTINENTAL" TYPE SHALL BE USED, CONSISTING OF SOLID WHITE LONGITUDINAL LINES 10 FEET IN LENGTH AND 2 FEET WIDE.
2. THE DESIGN OF THE LINES SHALL BE INSTALLED AT THE CENTER OF EACH DRIVING LANE, RIGHT TURN LANE, AND LEFT TURN LANE; CENTERED BETWEEN EACH LANE PARALLEL TO THE DIRECTION OF TRAVEL AS SHOWN.
3. CROSSWALK LINES SHOULD EXTEND ACROSS THE FULL WIDTH OF THE ROADWAY PAVEMENT OR TO THE EDGE OF THE INTERSECTING CROSSWALK TO DISCOURAGE DIAGONAL WALKING BETWEEN CROSSWALKS.
4. CROSSWALK MARKING SHOULD BE LOCATED SO THAT THE CURB RAMPS ARE WITHIN THE EXTENSION OF THE CROSSWALK MARKINGS.

NOTE: MID-BLOCK CROSSINGS SHALL NOT BE PERMITTED WITHIN ALBUQUERQUE CITY LIMITS, UNLESS APPROVED BY CITY OF ALBUQUERQUE TRAFFIC ENGINEERING.

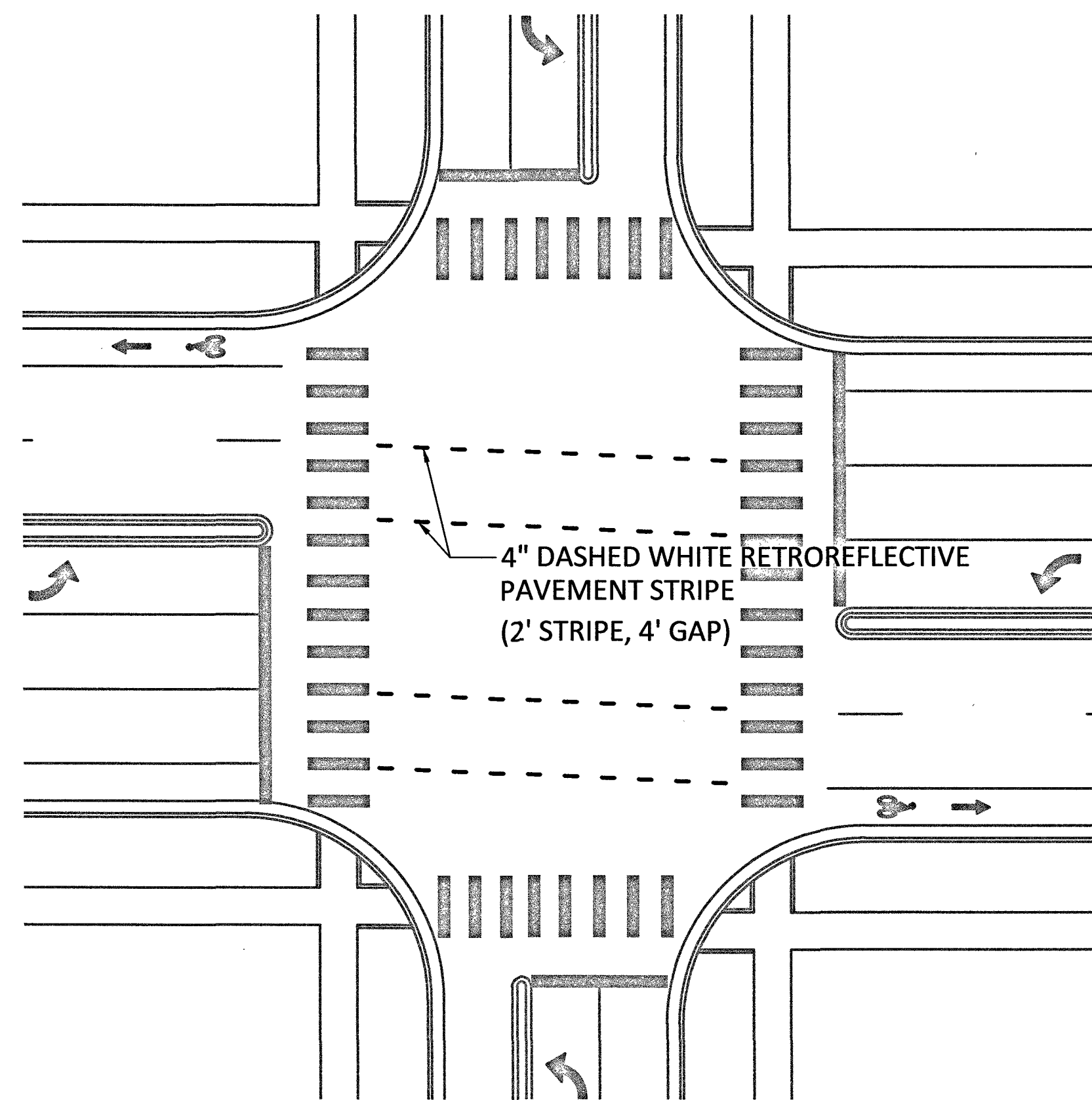
REVISIONS	CITY OF ALBUQUERQUE
	ROADWAY STRIPING
	CROSSWALK MARKING DETAILS
	DWG. 2900-106 FEBRUARY 2014



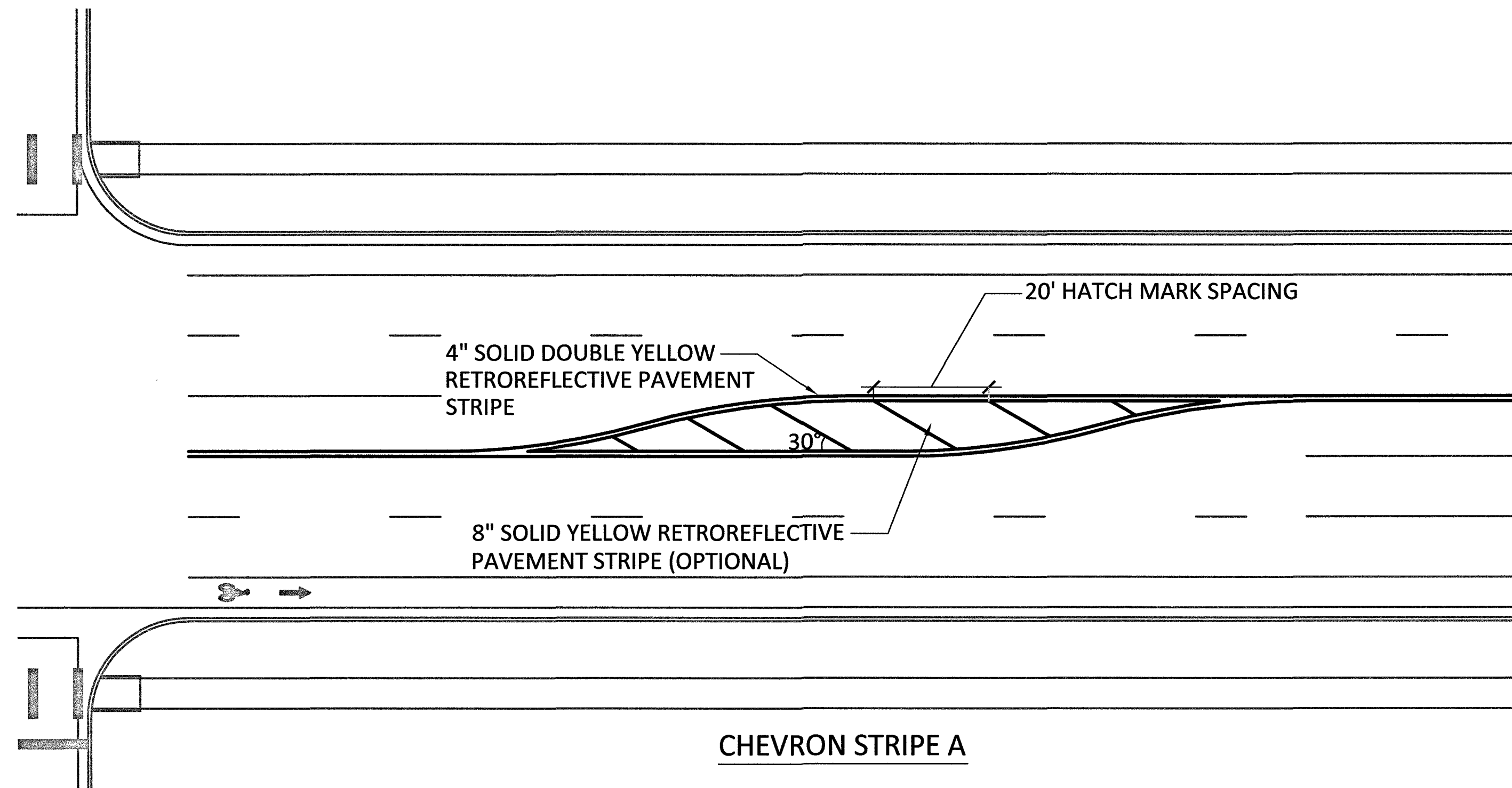
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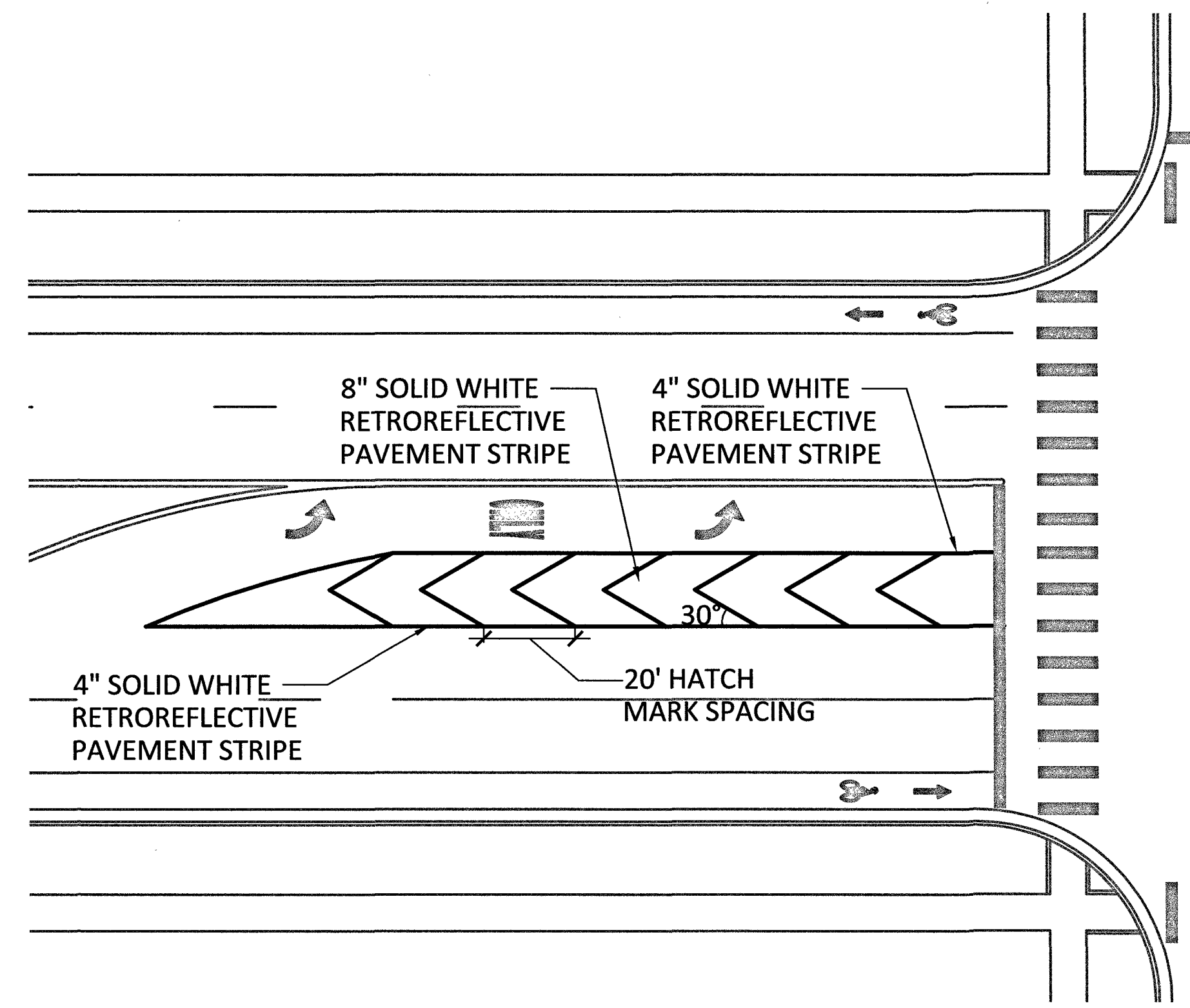
LANE LINE EXTENSION FOR DUAL LEFT TURN LANE  
"PUPPY TRACKS"



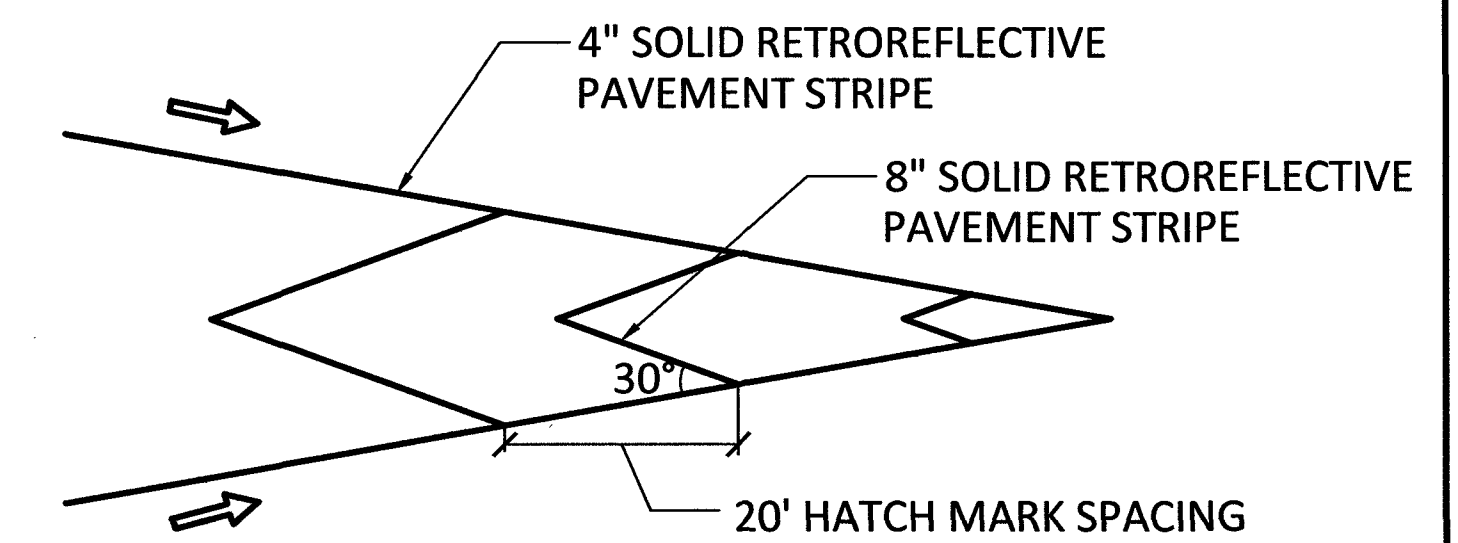
LANE LINE EXTENSION THROUGH INTERSECTION  
USED WHEN LANE OFFSETS ARE GREATER THAN 3 FT.



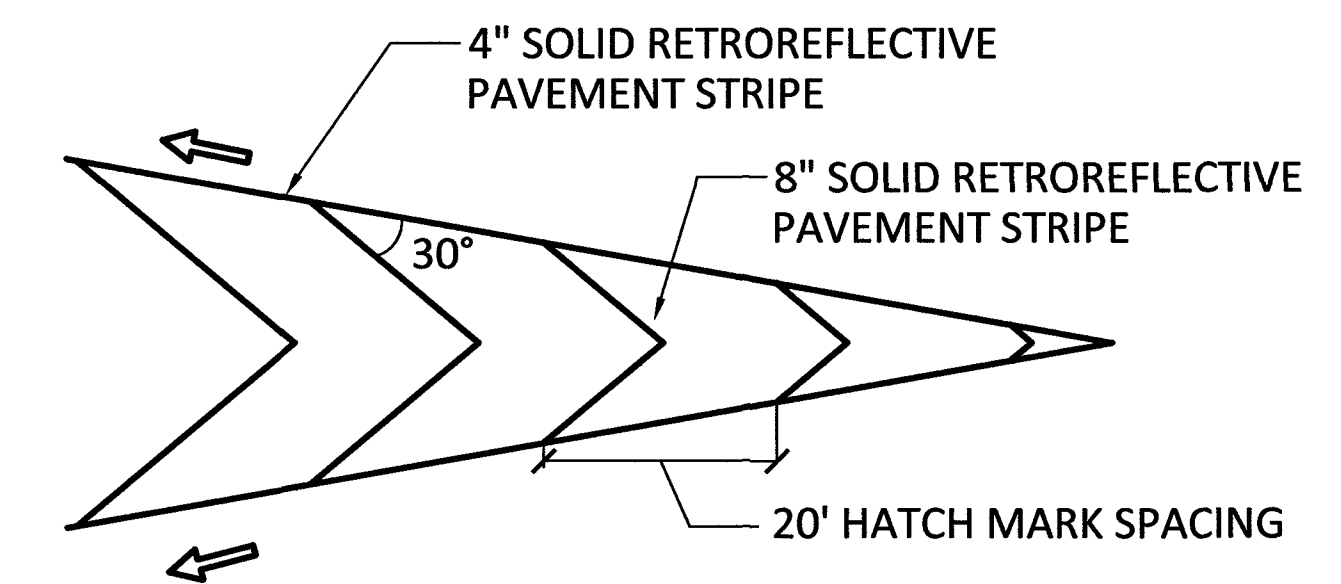
CHEVRON STRIPE A



CHEVRON STRIPE B



CHEVRON STRIPE C



CHEVRON STRIPE D

REVISIONS	CITY OF ALBUQUERQUE
	ROADWAY STRIPING
	LANE LINE EXTENSION & CHEVRON STRIPE DETAILS
	DWG. 2900-107 FEBRUARY 2014



TRAFFIC SIGNAL GENERAL NOTES

1. THIS PROJECT INCLUDES MODIFICATIONS TO THE EXISTING TRAFFIC SIGNAL AT THE CENTRAL AVENUE AND 98TH STREET INTERSECTION.
2. 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 THAT 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. SPICES IN PULL BOXES WILL BE CONNECTED USING GEL-FILLED WIRE NUTS. SPlicing OF OPTICAL DETECTOR CABLE WILL NOT BE PERMITTED FROM THE DETECTOR TO THE CONTROLLER CABINET. ALL UNUSED CONDUCTORS REQUIRE DEAD END CONNECTORS.
7. 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 (311) THREE WORKING DAYS IN ADVANCE OF ANY ANTICIPATED WORK ON SIGNALS 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 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. THE CONTRACTOR SHALL PROVIDE OFF-DUTY POLICE OFFICERS TO DIRECT TRAFFIC IF SIGNALS ARE TURNED OFF.

15. ALL DATA SHOWN HEREIN CONCERNING EXISTING UTILITIES HAS BEEN OBTAINED 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 AND SHALL POT-HOLE TO LOCATE EXISTING UTILITIES IN THE LOCATIONS WHERE SIGNAL FOUNDATIONS ARE PROPOSED. COST OF LOCATING LINES INCLUDING EXPLORATORY TRENCHING AND POT-HOLING WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

TRAFFIC SIGNAL EQUIPMENT REQUIREMENTS

1. ALL INDICATIONS OF ALL NEW VEHICLE SIGNAL ASSEMBLIES SHALL BE L.E.D. SIGNALS OF A TYPE AND MANUFACTURER APPROVED BY THE CITY OF ALBUQUERQUE.
2. ALL NEW SIGNAL ASSEMBLIES AND FITTINGS AT THE INTERSECTION SHALL COMPLY WITH THE CITY OF ALBUQUERQUE TYPE AND COLOR FINISH REQUIREMENTS.

TRAFFIC SIGNAL INCIDENTAL ITEMS

1. REMOVAL OF EXISTING PULL BOXES, CONDUITS, OR OTHER SIGNAL EQUIPMENT NOT SPECIFICALLY ENUMERATED AS BID ITEMS FOR INSTALLATION OF NEW SIGNAL EQUIPMENT.
2. 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 LANDSCAPING (INCLUDING SPRINKLERS) FOR INSTALLATION SIGNAL EQUIPMENT, EXCEPT AS NOTED ON THE PLANS.
4. LOCATION OF UTILITY LINES INCLUDING EXPLORATORY TRENCHING AND EXPOSING OF GAS LINES WHEN BORING.
5. DESIGN, MATERIALS, INSTALLATION AND REMOVAL OF SAFETY BARRIER FOR SHIELDING EQUIPMENT OR MATERIAL.
6. APPRISING PUBLIC THROUGH THE LOCAL NEWS MEDIA.
7. HAULING OF WASTE MATERIALS TO THE CITY LANDFILL, AS APPROPRIATE.
8. LEAN FILL FOR CONDUIT TRENCHES.
9. PULL BOX ADJUSTMENTS TO GRADE.
10. OFF-DUTY POLICE OFFICER FOR TRAFFIC CONTROL
11. CONDUIT TRACE WIRE

ITEMS LISTED ARE ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MATERIALS, AND MAY NOT BE COMPLETE. THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIALS REQUIRED BY THE SPECIAL PROVISIONS SERIALS (STANDARD DETAILS), SUPPLEMENTAL SPECIFICATIONS, OR THE STANDARD SPECIFICATIONS

RECORD DRAWING  
Sept. 29, 2016

TRAFFIC SIGNAL LEGEND

NEW	EXISTING	ITEM
		PULL BOX
		SERVICE POLE
		METER PEDESTAL
		CONTROLLER CABINET
		CONDUIT RUN (SIGNALS)
		CONDUIT RUN (INTERCONNECT)
		TRAFFIC SIGNAL PEDESTAL POLE
		CONDUIT RUN NUMBER (SIGNAL)
		CONDUIT RUN NUMBER (POWER SERVICE)
		CONDUIT RUN NUMBER (INTERCONNECT)
		CONDUIT RUN NUMBER (WARNING BEACON)
		TYPE II STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACKPLATE, AND OPTICAL DETECTOR
		TYPE III STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACKPLATE, OPTICAL DETECTOR, LUNIMAIRE, AND CAMERA
		PEDESTRIAN PUSH BUTTON (MOUNTED TO SIDE OF POLE WHERE INDICATED)
		PEDESTRIAN SIGNAL (MOUNTED TO SIDE OF POLE WHERE INDICATED)
		SPLICE CABINET
		TRAFFIC MANHOLE
		VIDEO CAMERA

AS-BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEERS SEAL			
CONTRACTOR	WORK ORDER NO.	DATE		The station mark is a City of Albuquerque survey control 3 1/4" aluminum disc set in a concrete post 0.5' above ground and is stamped "14-K9 2002". The station is located in the NW quadrant of the 86th Street/Bridge Blvd. intersection. Datum: NAD 83, elevations based on NAVD 88 datum: N=1462352.731, E=1496702.894, Elev.=5118.017'.				NO.	BY	DATE		<div></div>			
INSPECTOR'S ACCEPTANCE BY	DATE														
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DRAWINGS CORRECTED BY	DATE														
MICRO-FILM INFORMATION												DESIGNED BY	NLA	DATE	5/2016
												DRAWN BY	NLA	DATE	5/2016
												CHECKED BY	KEA	DATE	5/2016

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
ENGINEERING DIVISION

TITLE: CENTRAL AVENUE AND 98th STREET LEFT TURN AND TRAFFIC SIGNAL MODIFICATIONS  
TRAFFIC SIGNAL GENERAL NOTES

Design Review Committee

City Engineer Approval

Lost Design Update

Mo. / Day / Yr.

Mo. / Day / Yr.

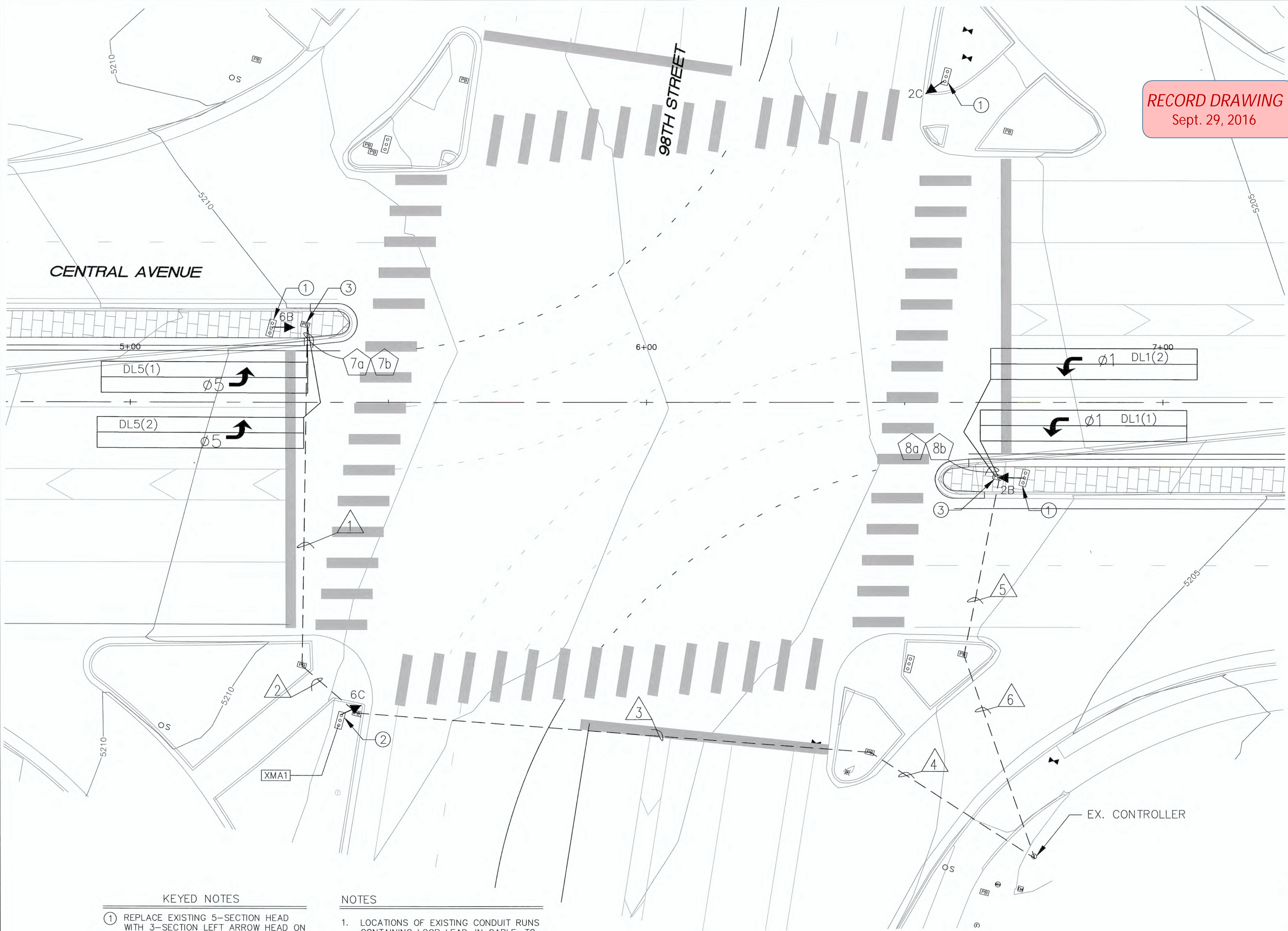
City Project No.  
904307

Zone Map No.  
K-9

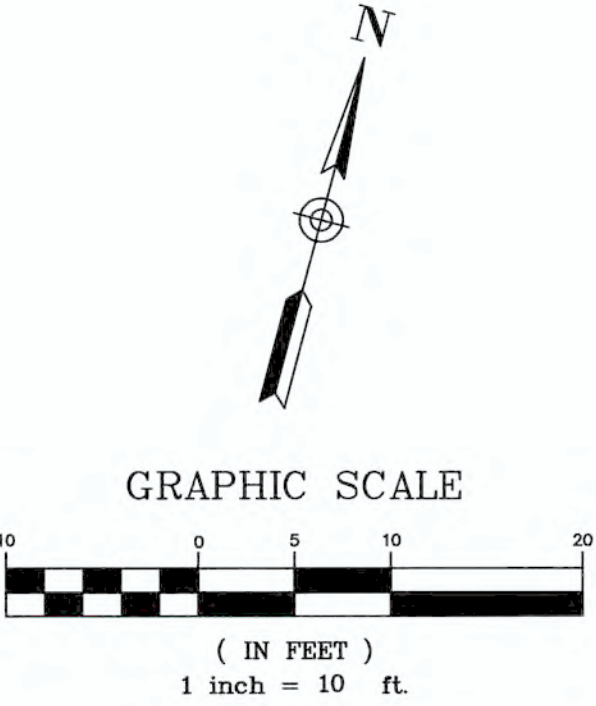
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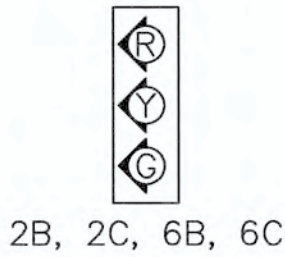




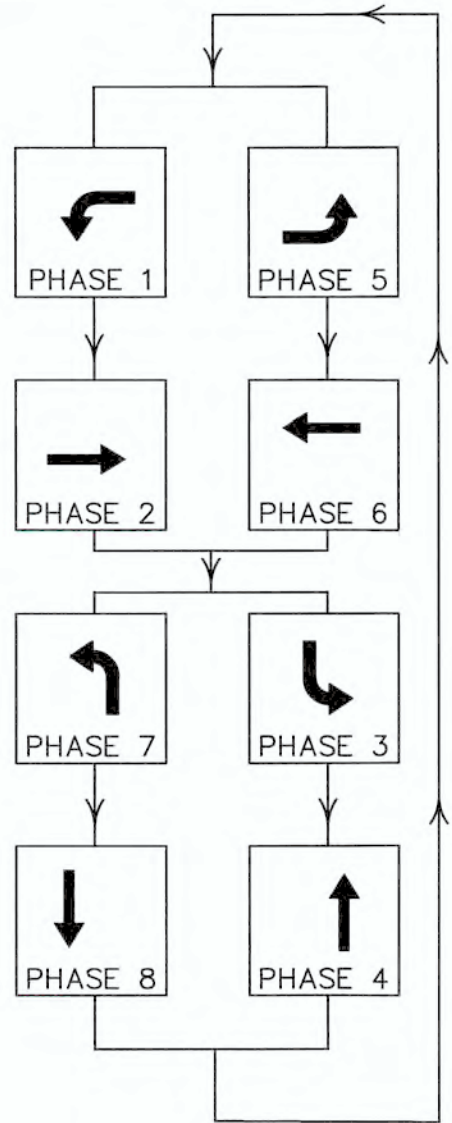
RECORD DRAWING  
Sept. 29, 2016



TYPICAL SIGNAL FACE  
LENS ARRANGEMENTS



SIGNAL PHASING



SYMBOL KEY

- EX. CONDUIT RUN ID - INSTALL DLLIC
- NEW CONDUIT RUN ID
- EXISTING MASTARM

KEYED NOTES

- REPLACE EXISTING 5-SECTION HEAD WITH 3-SECTION LEFT ARROW HEAD ON EXISTING POLE
- INSTALL NEW 3-SECTION LEFT ARROW HEAD AND MCC5 CONDUCTOR FROM MASTARM BASE TO NEW SIGNAL HEAD
- ADJUST PULL BOX TO GRADE

NOTES

- LOCATIONS OF EXISTING CONDUIT RUNS CONTAINING LOOP LEAD-IN CABLE, TO BE USED FOR PLACEMENT OF ADDITIONAL NEW LOOP LEAD-IN CABLE, HAVE BEEN ESTIMATED BASED ON FIELD OBSERVATIONS. CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION OF CONDUITS CONTAINING LOOP LEAD-IN CABLE PRIOR TO BEGINNING WORK.

ABBREVIATIONS

3A SIGNAL HEAD NUMBER

AS BUILT INFORMATION			
CONTRACTOR	WORK	DATE	DATE
INSPECTOR	INSPECTED	DATE	DATE
FIELD	FIELD	DATE	DATE
VERIFICATION	VERIFICATION	DATE	DATE
CORRECTED	CORRECTED	DATE	DATE
MICRO-FILM INFORMATION			
RECORDED BY	DATE	DATE	DATE
NO.	NO.	NO.	NO.

BENCH MARKS			
The station mark is a City of Albuquerque survey control 3" x 4" aluminum disc set in a concrete post 0.5' above ground and is stamped "14-K9 2002". The station is located in the NW quadrant of the 86th Street/Bridge Blvd. intersection. Datum: NAD 83, elevations based on NAVD 88 datum. N=1482352.731, E=1496702.894, Elev.=5118.017.			

SURVEY INFORMATION			
FIELD NO.	BY	DATE	DATE
NO.	NO.	NO.	NO.

ENGINEERS SEAL			
REMARKS	BY	DATE	DATE
DESIGN	DESIGN	5/2016	5/2016
NO.	NO.	DATE	DATE
NO.	NO.	DATE	DATE
NO.	NO.	DATE	DATE

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
ENGINEERING DIVISION

TITLE: CENTRAL AVENUE AND 98th STREET LEFT TURN AND TRAFFIC SIGNAL MODIFICATIONS  
TRAFFIC SIGNAL MODIFICATIONS

DESIGN REVIEW COMMITTEE  
JUN 09 2016

CITY ENGINEER  
JUN 09 2016

Mo. / Day / Yr.


City Project No. 904307

Zone Map No. K-9

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FUNCTION CHART – 115 VOLT CIRCUIT						
CONDUCTOR			RING 1 – MULTI CONDUCTOR CABLE 20		RING 2 – MULTI CONDUCTOR CABLE 20 2/	
CONDUCTOR NUMBER	BASE COLOR	TRACER	FUNCTION	FIELD CONNECTION 1/	FUNCTION	FIELD CONNECTION
1	BLACK	—	SPARE	SPARE	SPARE	SPARE
2	WHITE	—	SPARE	SPARE	SPARE	SPARE
3	RED	—	PHASE 1 RED	RED ARROW 6B, 6C	PHASE 5 RED	RED ARROW 2B, 2C
4	GREEN	—	PHASE 1 GREEN	GREEN ARROW 6B, 6C	PHASE 5 GREEN	GREEN ARROW 2B, 2C
5	ORANGE	—	PHASE 1 YELLOW	YELLOW ARROW 6B, 6C	PHASE 5 YELLOW	YELLOW ARROW 2B, 2C
6	BLUE	—	SPARE	SPARE	SPARE	SPARE
7	WHITE	BLACK	SPARE	SPARE	SPARE	SPARE
8	RED	BLACK	PHASE 2 RED	RED BALL 2B, 2C	PHASE 6 RED	RED BALL 6B
9	GREEN	BLACK	PHASE 2 GREEN	GREEN BALL 2B, 2C	PHASE 6 GREEN	GREEN BALL 6B
10	ORANGE	BLACK	PHASE 2 YELLOW	YELLOW BALL 2B, 2C	PHASE 6 YELLOW	YELLOW BALL 6B

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 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.

RECORD DRAWING  
Sept. 29, 2016

DETECTOR LOOPS

LOOP ID	MODE	LOOP TYPE	LOOP DIMENSIONS				LOOP WIRE	PAVEMENT SAWCUT
			L	W	S	T		
DL1(1)	PRESENCE	QP	40'	6'	5'	6'	371'	137'
DL1(2)	PRESENCE	QP	40'	6'	17'	6'	395'	149'
DL5(1)	PRESENCE	QP	40'	6'	5'	6'	371'	137'
DL5(2)	PRESENCE	QP	40'	6'	17'	6'	395'	149'

QUANTITY ESTIMATING ASSUMPTION:

LOOP WIRE

6' x 30' QP LOOP = (8\*L) + (4\*W) + (2\*S) + (2\*T) + 5 = 269 + 2(S+T)  
6' x 40' QP LOOP = (8\*L) + (4\*W) + (2\*S) + (2\*T) + 5 = 349 + 2(S+T)  
6' x 50' QP LOOP = (8\*L) + (4\*W) + (2\*S) + (2\*T) + 5 = 429 + 2(S+T)  
6' x 30' REC LOOP = (6\*L) + (6\*W) + (2\*S) + (2\*T) + 5 = 216 + 2(S+T)  
6' x 40' REC LOOP = (6\*L) + (6\*W) + (2\*S) + (2\*T) + 5 = 276 + 2(S+T)  
6' x 6' EC LOOP = (6\*L) + (6\*W) + (2\*S) + (2\*T) + 5 = 77 + 2(S+T)  
6' x 6' SYS LOOP = (8\*L) + (8\*W) + (2\*S) + (2\*T) + 5 = 96 + 2(S+T)

PAVEMENT SAWCUT

6' x 30' QP LOOP = (3\*L) + (2\*W) + S=102 + S  
6' x 40' QP LOOP = (3\*L) + (2\*W) + S=132 + S  
6' x 50' QP LOOP = (3\*L) + (2\*W) + S=162 + S  
6' x 30' REC LOOP = (2\*L) + (2\*W) + S=72 + S  
6' x 40' REC LOOP = (2\*L) + (2\*W) + S=92 + S  
6' x 6' EC LOOP = (2\*L) + (2\*W) + S= 24 + S  
6' x 6' SYS LOOP = (2\*L) + (2\*W) + S= 24 + S

WHERE:

L = DETECTOR LOOP LENGTH (FROM PLAN)  
W = DETECTOR LOOP WIDTH (FROM PLAN)  
S = SAWCUT LENGTH FROM DETECTOR LOOP TO FACE OF CURB (FROM PLAN)  
T = LOOP WIRE TERMINAL LENGTH FROM FACE OF CURB TO PULL BOX (FROM PLAN)



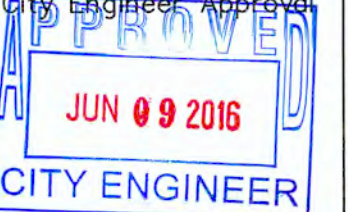
ABBREVIATIONS:

DLIC = DETECTOR LOOP LEAD IN CABLE  
EC = EXTENDED CALL LOOP  
L = DETECTOR LOOP LENGTH  
W = DETECTOR LOOP WIDTH  
S = SAWCUT LOOP TO CURB  
T = TERMINAL LOOP  
EC = QUADRAPOLE LOOP  
REC = RECTANGULAR LOOP

CONDUIT & CABLE REQUIREMENTS

CONDUIT SIZE/LENGTH		REMARKS	DLIC (# @ FT)	MCC 5 (# @ FT)
RUN ID	1" REC			
1		EX. PULLBOX TO EX. PULLBOX	70'	
2		EX. PULLBOX TO EX. PULLBOX	20'	
3		EX. PULLBOX TO EX. PULLBOX	100'	
4		EX. CONTROLLER TO EX. PULLBOX	40'	
5		EX. PULLBOX TO EX. PULLBOX	40'	
6		EX. CONTROLLER TO EX. PULLBOX	50'	
7a	5	EX. PULLBOX TO LOOP		
7b	5	EX. PULLBOX TO LOOP		
8a	5	EX. PULLBOX TO LOOP		
8b	5	EX. PULLBOX TO LOOP		
XMA1		BASE TO NEW 6C		20'
TOTAL	20'		320'	20'

NOTE: 1" REC SHALL BE PAID UNDER ITEM 424.006 ELECTRICAL CONDUIT, 2"

 <div>CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION</div>			
TITLE: CENTRAL AVENUE AND 98th STREET LEFT TURN AND TRAFFIC SIGNAL MODIFICATIONS CABLES, DETECTORS & FUNCTIONS			
Design Review Committee	City Engineer Approval	Mo. / Day / Yr.	
			
City Project No.	Zone Map No.	Sheet	Of
904307	K-9	14	14



ENGINEERS SEAL			SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION		
				NO.	BY	DATE	The station mark is a City of Albuquerque survey control 3 1/4" aluminum disc set in a concrete post 0.5' above ground and is stamped "14-K9-2002". The station is located in the NW quadrant of the 88th Street/Bridge Blvd. intersection. Datum: NAD 83, elevations based on NAVD 88 datum. N=1482352.731, E=1496702.894, Elev.=5118.017.	CONTRACTOR	DATE
								WORKED BY	DATE
								INSPECTOR'S ACCEPTANCE BY	DATE
								VERIFICATION BY	DATE
								DRAWINGS CORRECTED BY	DATE
							MICRO-FILM INFORMATION		
DESIGNED BY	NLA	DATE	5/2016					RECORDED BY	DATE
DRAWN BY	NLA	DATE	5/2016					NO.	
CHECKED BY	KEA	DATE	5/2016						