

CONSTRUCTION PLANS
FOR
CIRCLE K - NUNZIO AVE. N.W.
OFF-SITE IMPROVEMENTS
ALBUQUERQUE, NEW MEXICO

FOR INFORMATION ONLY

LEGEND

	CURB AND GUTTER		WATER METER
	CONCRETE		CABLE T.V.
	ELECTRIC TRANSFORMER		POWER POLE
	ELECTRIC PANEL		ANCHOR
	SANITARY SEWER MANHOLE		LIGHT POLE
	TELEPHONE MANHOLE		TRAFFIC LIGHT
	ELECTRIC MANHOLE		CROSSWALK SIGNAL
	STORM SEWER MANHOLE		SPRINKLER CONTROL
	WATER VALVE		TRAFFIC CONTROL
	FIRE HYDRANT		LIGHTING BOX
	TELEPHONE BOX		SIGN
	SPOT ELEVATION		GRATE

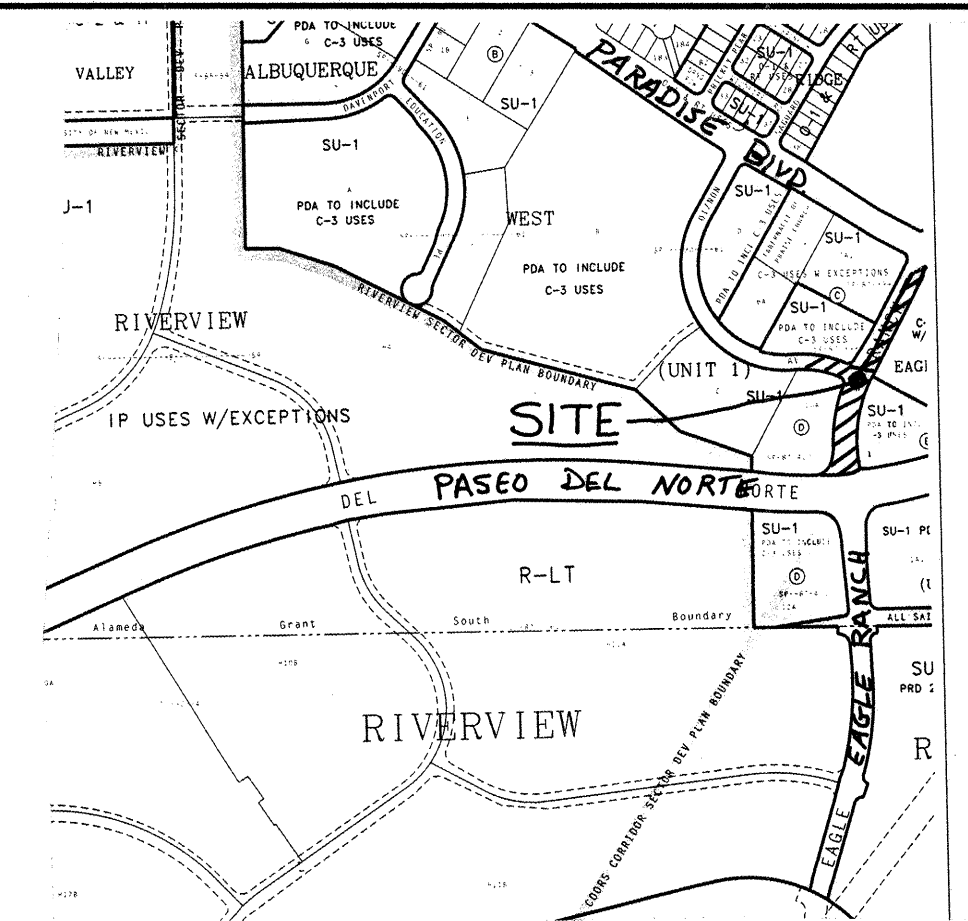
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1	TITLE SHEET
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5	UTILITY IMPROVEMENTS
6	STRIPING PLAN
7	SIGNAL PLAN
8	CONDUIT & CABLE REQUIREMENT CHART
9-14	TRAFFIC SIGNAL DETAILS

CAUTION:
NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. ALL EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE APPROXIMATE LOCATION ONLY. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATIONS TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P. O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 545-2010

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE	
		DRC CHAIRMAN		11-19-96		APPROVED FOR CONSTRUCTION	
		TRANSPORTATION		9-17-96			
		WATER/WASTEWATER		9-6-96			
		HYDROLOGY		9-23-96			
		PARKS					
CONSTR. MNGMT.							
NMUI				7-7-96			
CITY PROJECT NO.		5428 81		SHEET OF		1 14	



VICINITY MAP ZONE ATLAS C-12-Z
SCALE: NONE

GENERAL NOTES

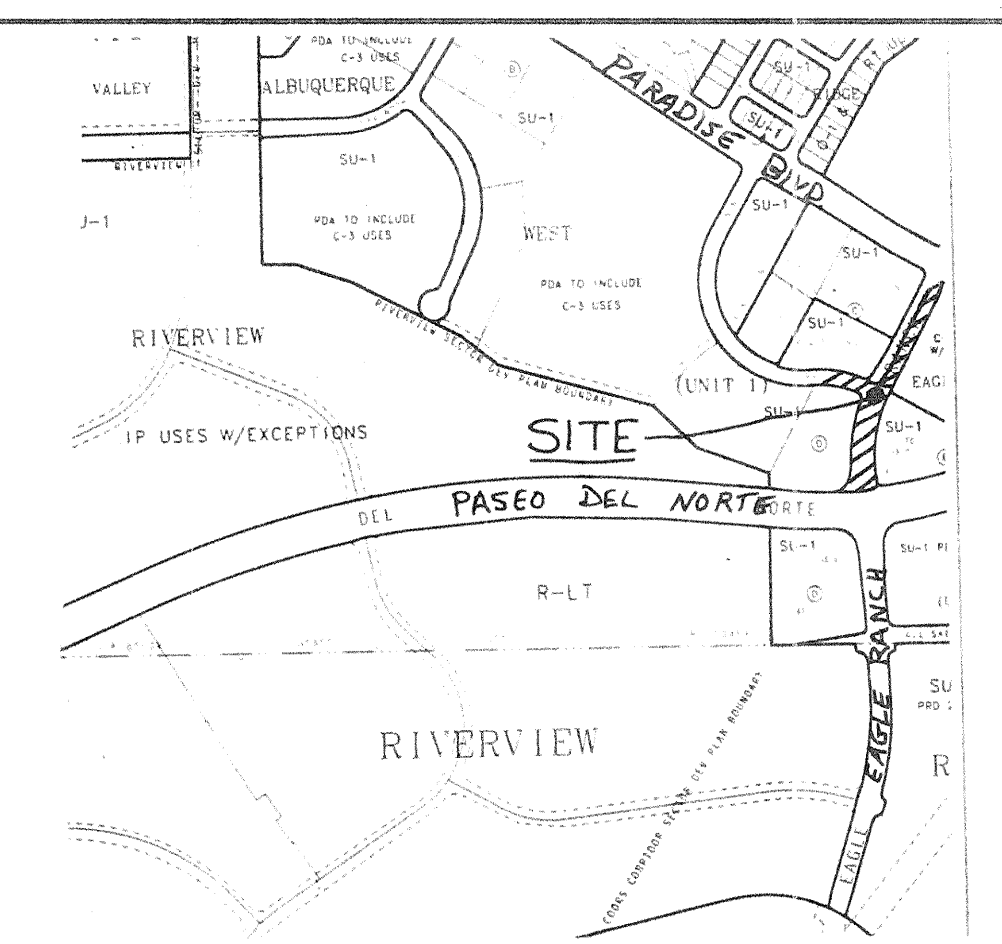
NOTICE TO CONTRACTORS

- CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED THROUGH UPDATE 6, WILL BE REFERRED TO HEREIN AS THE "STANDARD SPECIFICATIONS".
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) AND DETERMINE LOCATION OF EXISTING UTILITIES.
- PRIOR TO ANY 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 THE SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITHOUT DELAY.
- ALL EXISTING SIGNS, MARKERS, DELINEATORS, ETC., WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RE-SET BY THE CONTRACTOR.
- THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION CO-ORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION CO-ORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (788-2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED IN KIND BY CONTRACTOR TO LOCATION AND IN KIND AS EXISTING OR AS INDICATED BY THIS SET.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER 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 COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- WATER AND SEWER FACILITIES SHALL BE CONSTRUCTED PER NMUI SPECIFICATIONS, INSPECTION AND APPROVAL.
- THE CONTRACTOR SHALL NOTIFY NMUI THREE (3) WORKING DAYS PRIOR TO BEGINNING WATER OR SEWER CONSTRUCTION AND SHALL COORDINATE SAID CONSTRUCTION WITH NMUI.
- ANY WORK OCCURRING WITHIN AN ARTERIAL ROADWAY REQUIRES 24 HOURS CONSTRUCTION.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☒ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☐ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- ☒ SIDEWALK 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.

CONSTRUCTION PLANS
FOR
CIRCLE K - NUNZIO AVE. N.W.
OFF-SITE IMPROVEMENTS
ALBUQUERQUE, NEW MEXICO



VICINITY MAP ZONE ATLAS C-12-Z
SCALE: NONE

GENERAL NOTES

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LEGEND

- CURB AND GUTTER
- CONCRETE
- ⊞ ELECTRIC TRANSFORMER
- ⊞ ELECTRIC PANEL
- SANITARY SEWER MANHOLE
- ⊞ TELEPHONE MANHOLE
- ⊞ ELECTRIC MANHOLE
- STORM SEWER MANHOLE
- ⊞ WATER VALVE
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- ⊞ LIGHT POLE
- ⊞ TRAFFIC LIGHT
- ⊞ CROSSWALK SIGNAL
- ⊞ SPRINKLER CONTROL
- ⊞ TRAFFIC CONTROL
- ⊞ LIGHTING BOX
- △ SIGN
- ⊞ GRATE

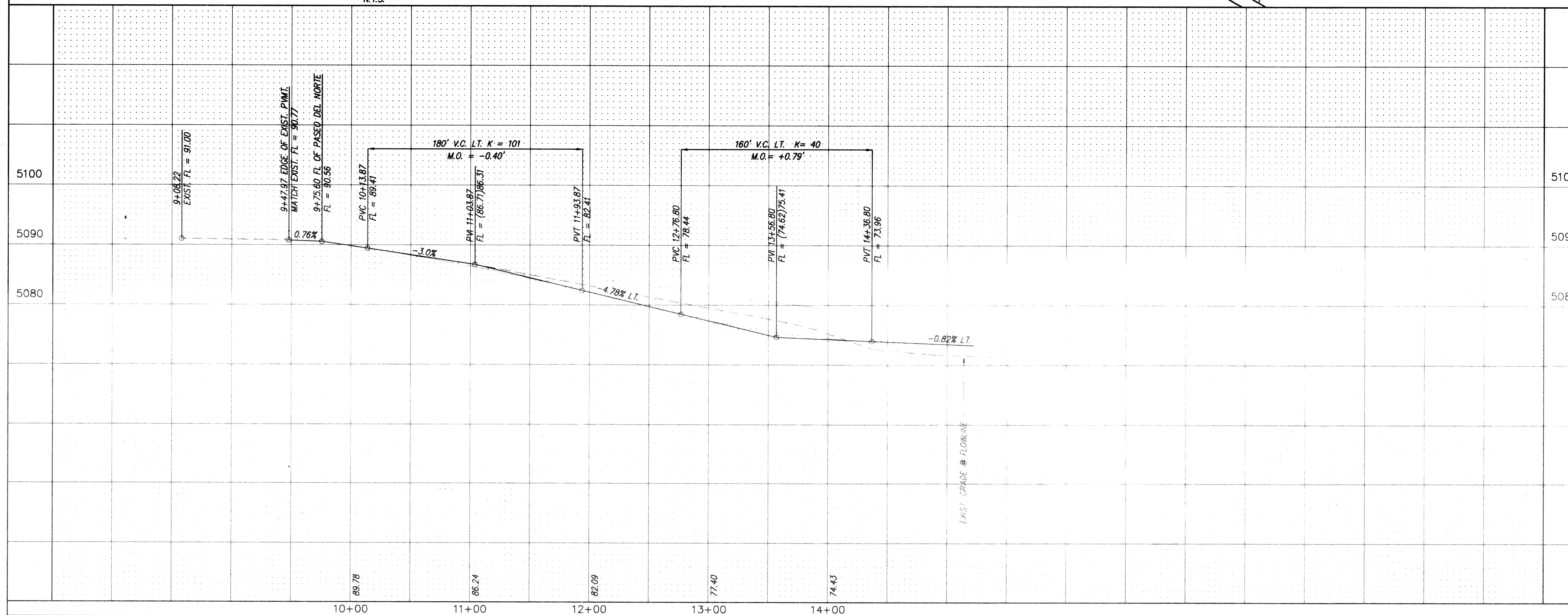
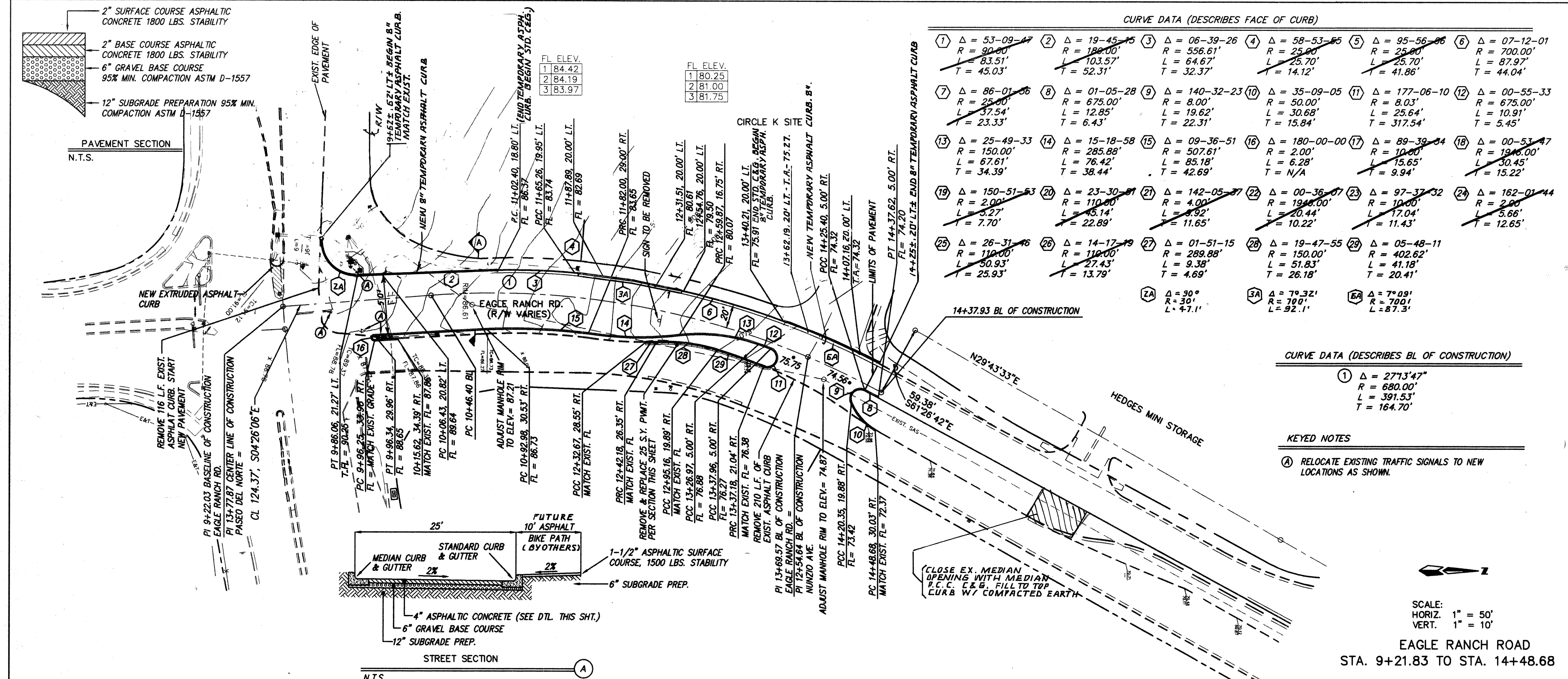
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9-14	TRAFFIC SIGNAL DETAILS
6B	AS-BUILT ELEVATIONS

REVISED BY C.O.A. 12/23/99

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CONSULTING ENGINEERS & SURVEYORS
P. O. BOX 90608
ALBUQUERQUE, NEW MEXICO 87199
(505) 345-2010

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE	
		DRC CHAIRMAN		11-17-99		APPROVED FOR CONSTRUCTION	
		TRANSPORTATION		11-17-99			
		WATER/WASTEWATER		11-17-99			
		HYDROLOGY		11-17-99			
		PARKS		11-17-99			
CONSTR. MGMT.						CITY ENGINEER	
NMUI						DATE	
CITY PROJECT NO.		5428 81		SHEET		OF 14	



NOTES:
1. ALL STATIONING IS BASELINE STATIONING.

CURVE DATA (DESCRIBES FACE OF CURB)
1 Δ = 53-09-17 R = 90.00' L = 83.51' T = 45.03'
2 Δ = 19-45-15 R = 126.00' L = 103.57' T = 52.31'
3 Δ = 06-39-26 R = 556.61' L = 64.67' T = 32.37'
4 Δ = 58-53-55 R = 25.00' L = 25.70' T = 14.12'
5 Δ = 95-56-06 R = 25.00' L = 25.70' T = 14.12'
6 Δ = 07-12-01 R = 700.00' L = 87.97' T = 44.04'
7 Δ = 86-01-06 R = 25.00' L = 25.70' T = 14.12'
8 Δ = 01-05-28 R = 675.00' L = 12.85' T = 6.43'
9 Δ = 140-32-23 R = 8.00' L = 19.62' T = 22.31'
10 Δ = 35-09-05 R = 50.00' L = 30.68' T = 15.84'
11 Δ = 177-06-10 R = 8.03' L = 25.64' T = 317.54'
12 Δ = 00-55-33 R = 675.00' L = 10.91' T = 5.45'
13 Δ = 25-49-33 R = 150.00' L = 67.61' T = 34.39'
14 Δ = 15-18-58 R = 285.88' L = 76.42' T = 38.44'
15 Δ = 09-36-51 R = 507.61' L = 85.18' T = 42.69'
16 Δ = 180-00-00 R = 2.00' L = 6.28' T = N/A
17 Δ = 89-39-04 R = 10.00' L = 15.65' T = 9.94'
18 Δ = 00-53-47 R = 1946.00' L = 30.45' T = 15.22'
19 Δ = 150-51-53 R = 2.00' L = 5.27' T = 7.70'
20 Δ = 23-30-01 R = 110.00' L = 45.14' T = 22.89'
21 Δ = 142-05-37 R = 4.00' L = 8.92' T = 11.65'
22 Δ = 00-36-07 R = 1948.00' L = 10.44' T = 10.22'
23 Δ = 97-37-32 R = 10.00' L = 17.04' T = 11.43'
24 Δ = 162-01-44 R = 2.00' L = 5.66' T = 12.65'
25 Δ = 26-31-06 R = 110.00' L = 50.93' T = 25.93'
26 Δ = 14-17-19 R = 110.00' L = 27.43' T = 13.79'
27 Δ = 01-51-15 R = 289.88' L = 9.38' T = 4.69'
28 Δ = 19-47-55 R = 150.00' L = 51.83' T = 26.18'
29 Δ = 05-48-11 R = 402.62' L = 41.18' T = 20.41'
30 Δ = 7-09-11 R = 70.00' L = 2.00' T = 87.3'

CURVE DATA (DESCRIBES BL OF CONSTRUCTION)
1 Δ = 2713'47" R = 680.00' L = 391.53' T = 164.70'

KEYED NOTES
A RELOCATE EXISTING TRAFFIC SIGNALS TO NEW LOCATIONS AS SHOWN.

SCALE:
HORIZ. 1" = 50'
VERT. 1" = 10'

EAGLE RANCH ROAD
STA. 9+21.83 TO STA. 14+48.68

ISLAND DETAIL
NOTE: SIDEWALKS INSIDE ISLAND TO HAVE A 2% SLOPE TOWARDS THE PAVEMENT TO PREVENT WATER FROM PONDING.

SECTION B
FOR INFORMATION ONLY

FOR INFORMATION ONLY

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

CIRCLE K - NUNZIO
PAVING IMPROVEMENTS
EAGLE RANCH ROAD N.W.

APPROVED
NOV 19 1996
DESIGN REVIEW COMMITTEE

APPROVED
NOV 17 1999
CITY ENGINEER

LAST DESIGN UPDATE

CITY PROJECT NO. 5428 81
ZONE MAP NO. C12
SHEET 2 OF 14

CURVE DATA (DESCRIBES CL OF CONSTRUCTION)

① $\Delta = 107^{\circ}59'$
 $R = 2000.00'$
 $L = 353.71'$
 $T = 176.32'$

NOTES:

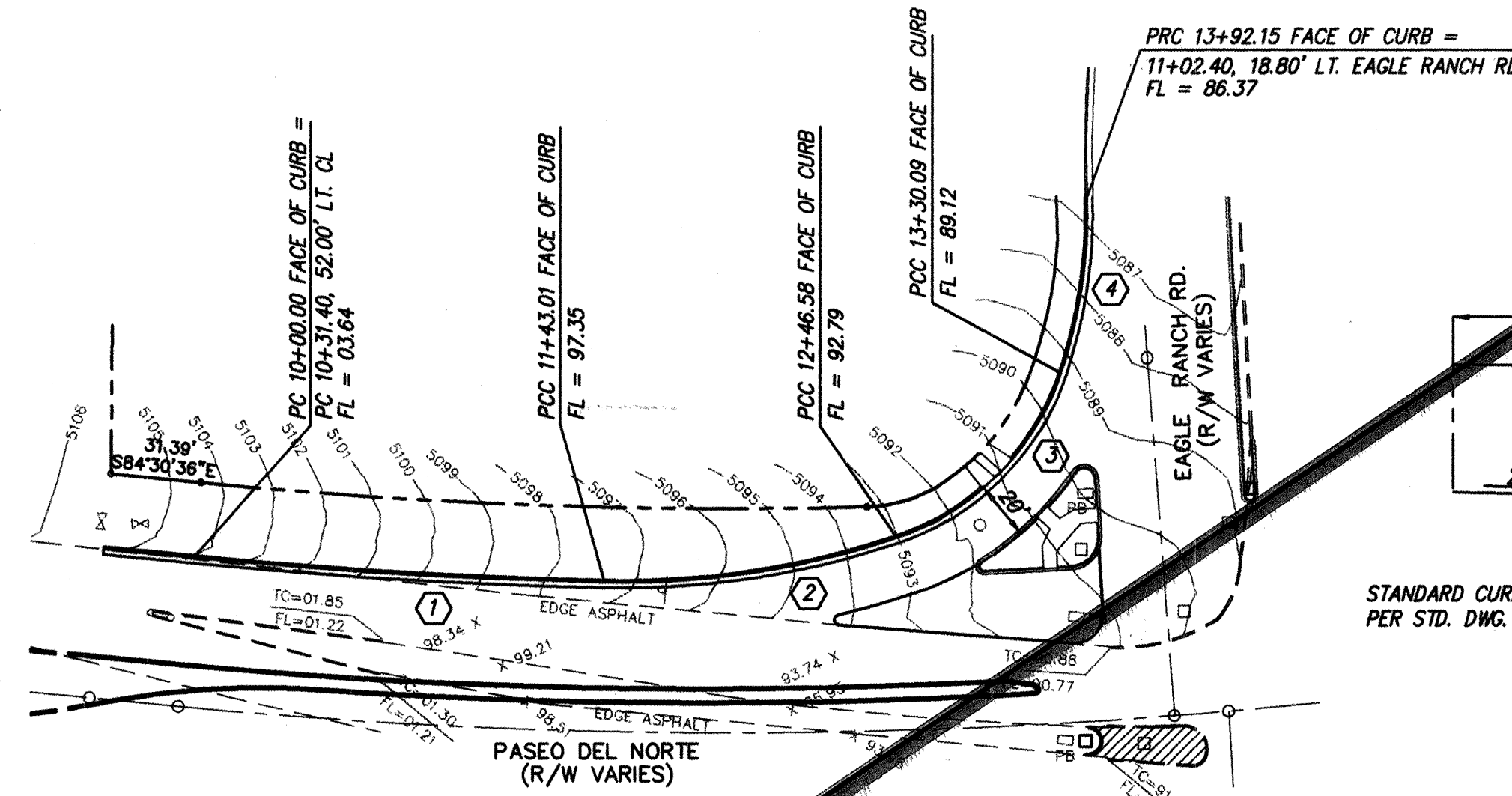
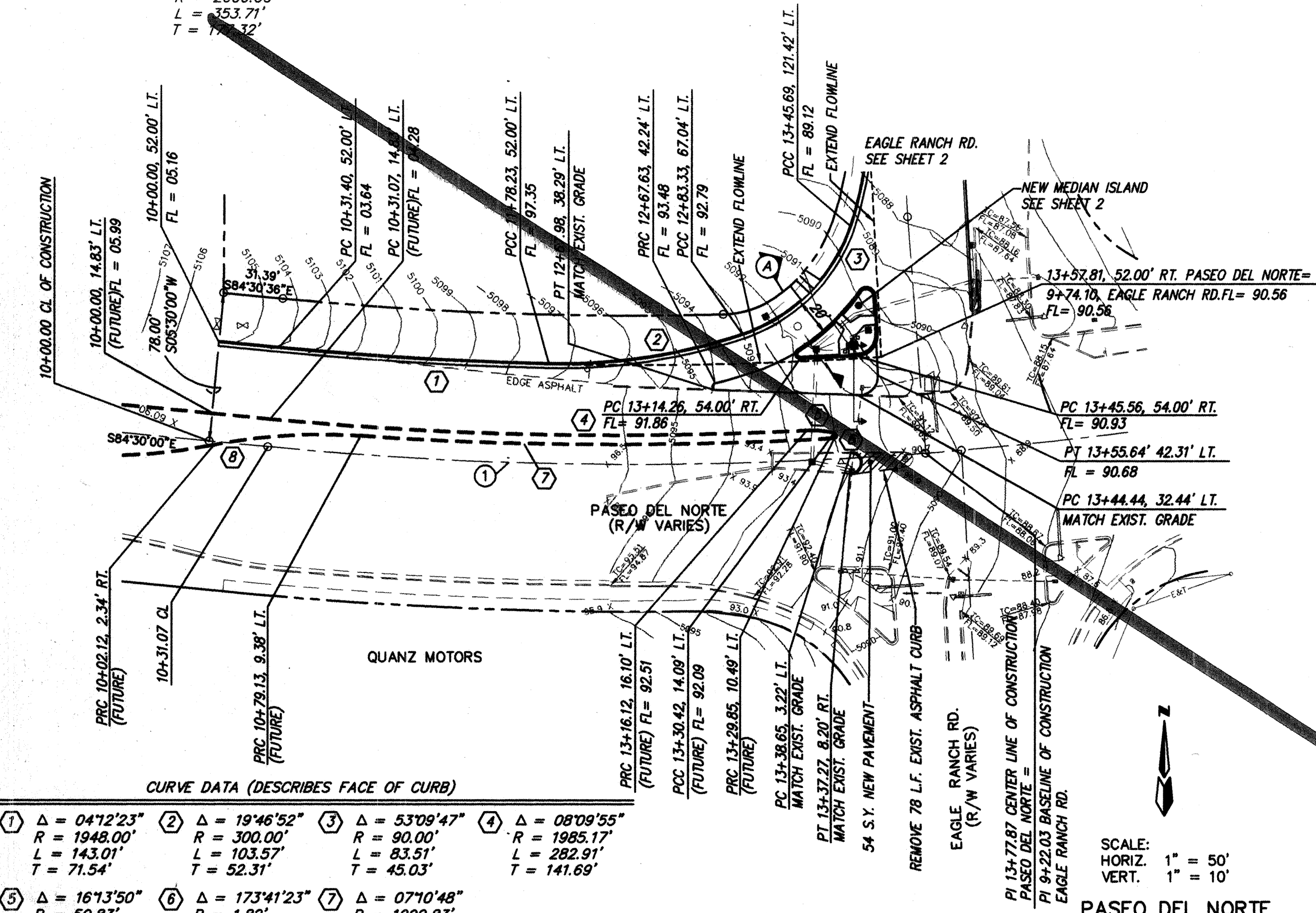
1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA (DESCRIBES FACE OF CURB)

① $\Delta = 04^{\circ}12'23''$ ② $\Delta = 19^{\circ}46'52''$ ③ $\Delta = 53^{\circ}09'47''$ ④ $\Delta = 19^{\circ}45'15''$
 $R = 1948.00'$ $R = 300.00'$ $R = 90.00'$ $R = 180.00'$
 $L = 143.01'$ $L = 103.57'$ $L = 83.51'$ $L = 62.06'$
 $T = 71.54'$ $T = 52.31'$ $T = 45.03'$ $T = 31.34'$

NOTES:

1. ALL STATIONING IS FACE OF CURB STATIONING



STANDARD CURB & GUTTER
 PER STD. DWG. 2415

MEDIAN CURB & GUTTER
 PER STD. DWG. 2415

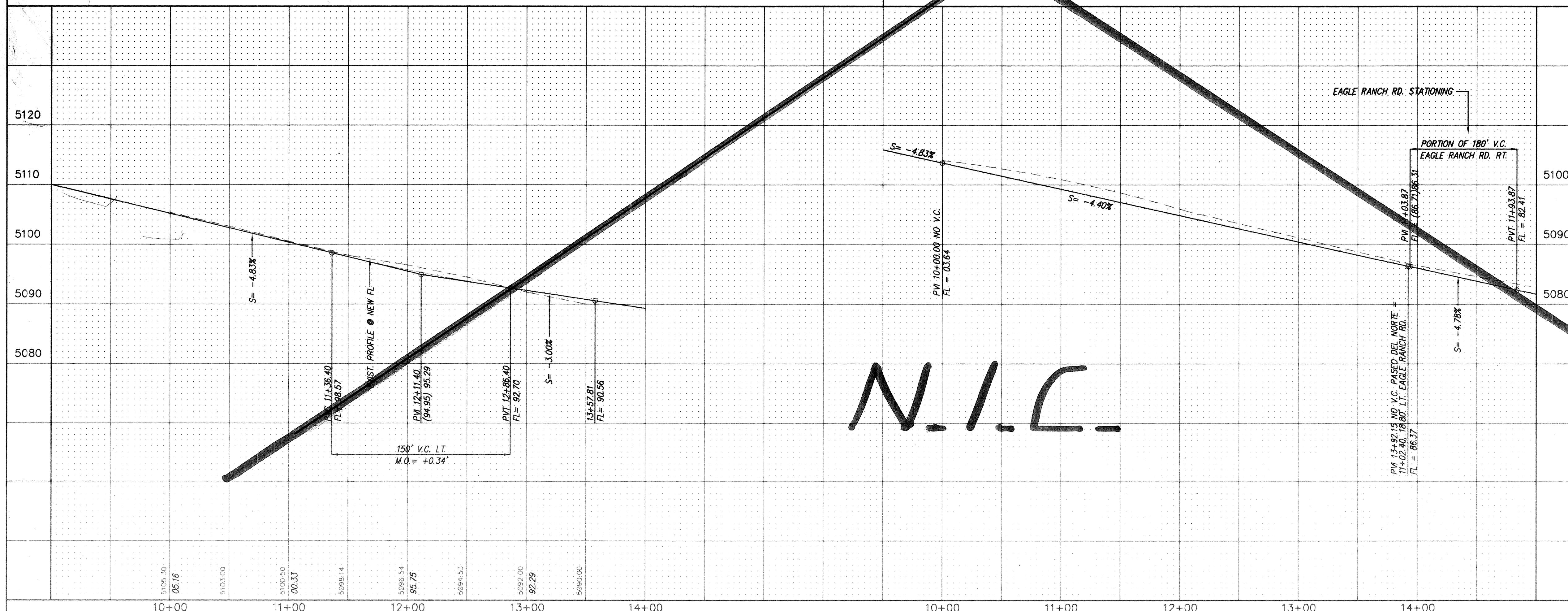
1.5" ASPHALT CONC. @ 1800 LBS. STABILITY
 2.5 ASPHALT CONC. @ 1800 LBS. STABILITY
 11" GRANULAR BASE COURSE PER NMHD
 SPECIFICATIONS
 12" COMPACTED SUBGRADE,
 95% MDD MODIFIED

PASEO DEL NORTE & CHANNELIZED
 RIGHT-TURN PAVEMENT SECTION

N.T.S.

SCALE:
 HORIZ. 1" = 50'
 VERT. 1" = 10'

CHANNELIZED TURN LANE
 PASEO DEL NORTE
 STA. 10+00.00 TO STA. 13+92.15



N.I.C.

AS BUILT INFORMATION			
CONTRACTOR	DATE	INSPECTOR	DATE
WORK ORDER	DATE	ACCEPTANCE BY	DATE
REVISIONS	DATE	VERIFICATION BY	DATE
DRAWING NO.	DATE	CHECKED BY	DATE
MICRO-FILM INFORMATION			
RECORDED BY	DATE	NO.	

SURVEY INFORMATION			
FIELD NOTES	DATE	BY	NO.
NO.			

ENGINEER'S SEAL			
NO.	DATE	BY	REMARKS
DESIGNED BY	DATE	STAFF	DESIGN
DRAWN BY	DATE	STAFF	DESIGN
CHECKED BY	DATE	DWG	DESIGN

FOR INFORMATION ONLY

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dmg

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CITY OF ALBUQUERQUE
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DEVELOPMENT GROUP

TITLE: CIRCLE K - NUNZIO
 PAVING IMPROVEMENTS
 PASEO DEL NORTE

APPROVED
 NOV 19 1996

APPROVED
 NOV 17 1996

CITY PROJECT NO. 5428 81

ZONE MAP NO. C12

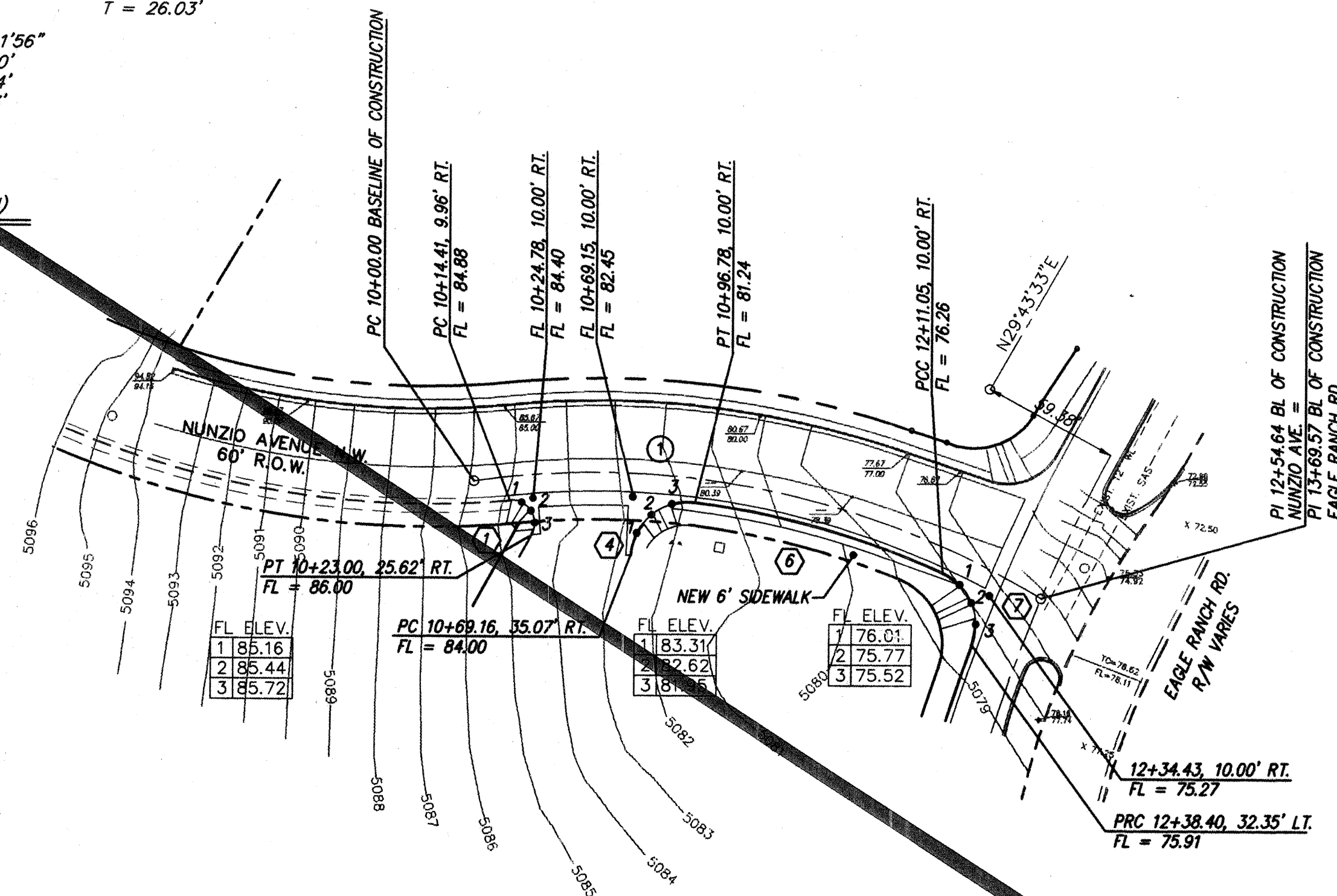
SHEET 3 OF 14

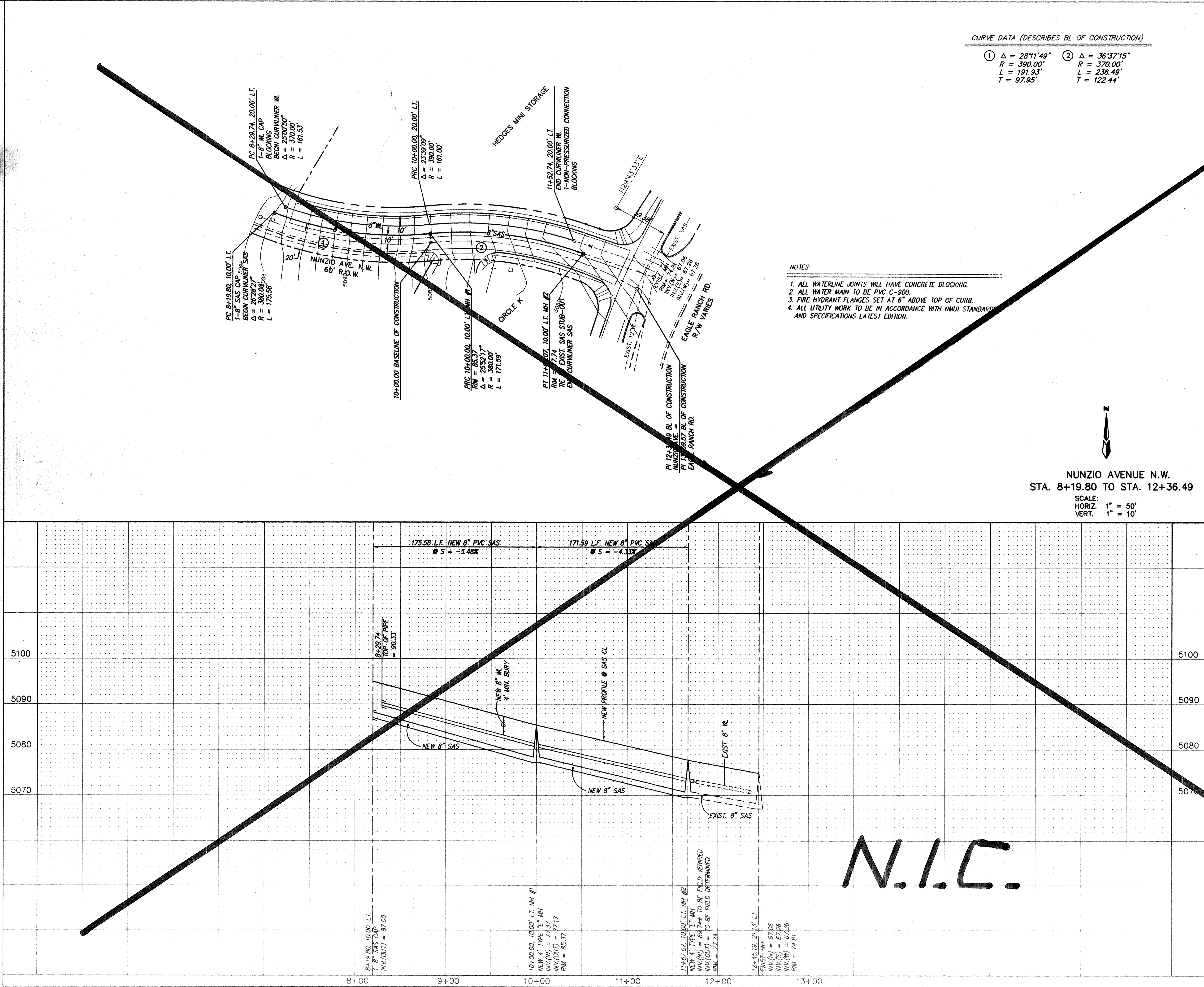
CURVE DATA (DESCRIBES FACE OF CURB)

1	$\Delta = 123^{\circ}59'13''$ $R = 10.00'$ $L = 21.64'$ $T = 18.80'$	2	$\Delta = 80^{\circ}22'53''$ $R = 10.00'$ $L = 4.03'$ $T = 8.45'$	3	$\Delta = 42^{\circ}17'25''$ $R = 25.00'$ $L = 18.45'$ $T = 9.62'$	4	$\Delta = 92^{\circ}18'37''$ $R = 25.00'$ $L = 40.28'$ $T = 26.03'$
5	$\Delta = 49^{\circ}08'20''$ $R = 25.00'$ $L = 21.44'$ $T = 11.43'$	6	$\Delta = 17^{\circ}41'41''$ $R = 360.00'$ $L = 11.18'$ $T = 56.15'$	7	$\Delta = 86^{\circ}01'56''$ $R = 25.00'$ $L = 37.54'$ $T = 23.33'$		

CURVE DATA (DESCRIBES BL OF CONSTRUCTION)

1	$\Delta = 39^{\circ}25'55''$ $R = 370.00'$ $L = 254.64'$ $T = 132.60'$
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CURVE DATA (DESCRIBES BL OF CONSTRUCTION)

①	$\Delta = 28^{\circ}11'49''$	②	$\Delta = 36^{\circ}37'15''$
	$R = 390.00'$		$R = 370.00'$
	$L = 191.93'$		$L = 236.49'$
	$T = 97.95'$		$T = 122.44'$

- NOTES:
1. ALL WATERLINE JOINTS WILL HAVE CONCRETE BLOCKING.
 2. ALL WATER MAIN TO BE PVC C-900.
 3. FIRE HYDRANT FLANGES SET AT 6" ABOVE TOP OF CURB.
 4. ALL UTILITY WORK TO BE IN ACCORDANCE WITH NMU STANDARD AND SPECIFICATIONS LATEST EDITION.

NUNZIO AVENUE N.W.
STA. 8+19.80 TO STA. 12+36.49
SCALE:
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VERT. 1" = 10'

NOTES:
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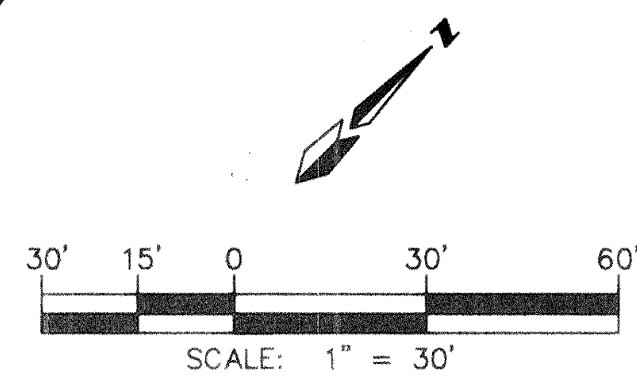
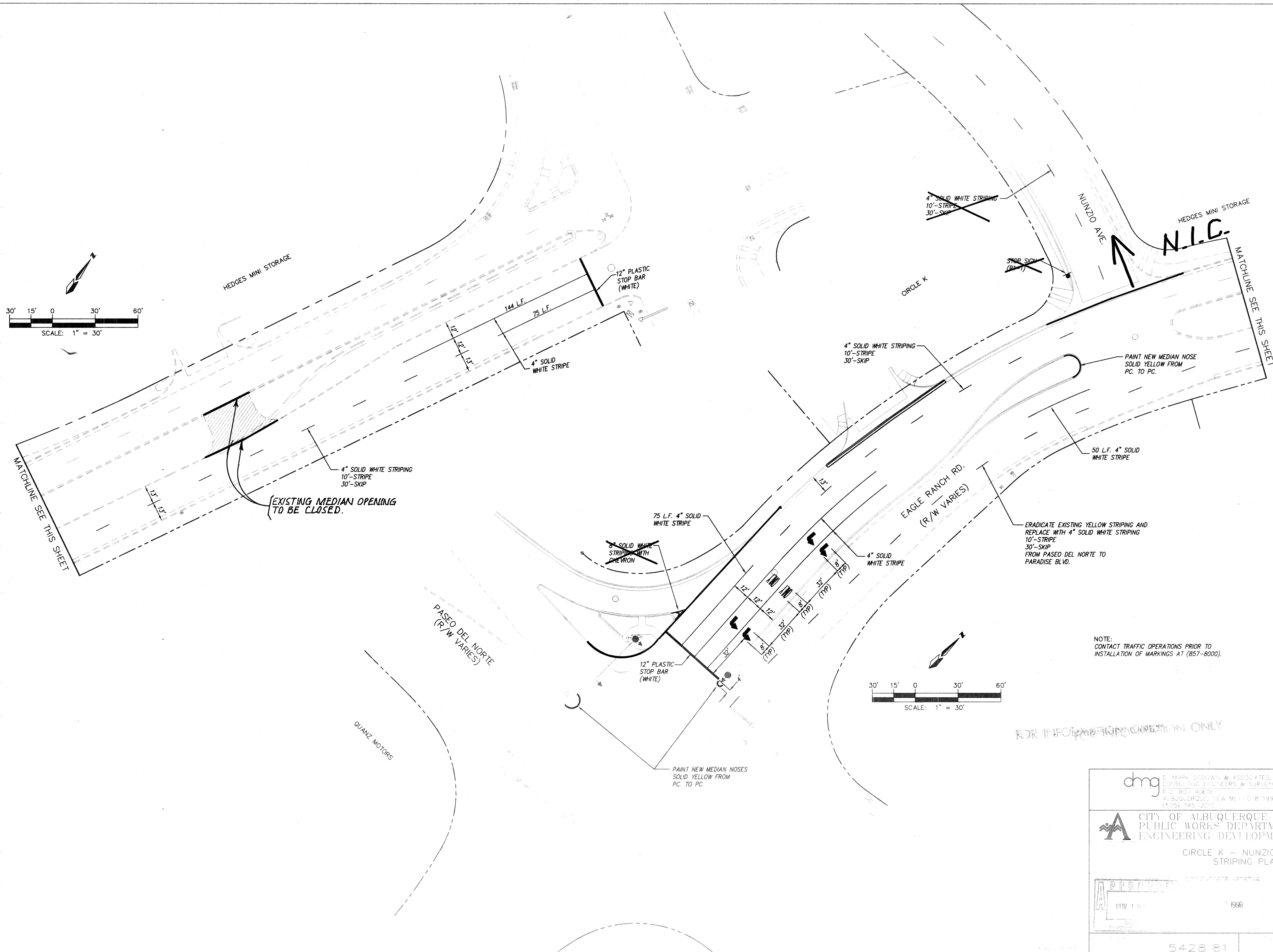
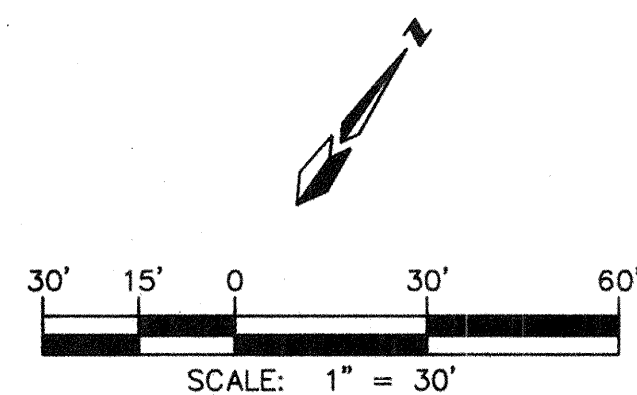
ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES		THE STATION IS A 3-1/4" ALUMINUM CAP INSETTED TO A PIPE PROTRUDING 0.1" ABOVE THE GROUND AND STAMPED "ACS 4-B131986" LOCATED NEAR THE INTERSECTION ON ARROW AVENUE AND BRYAN AVENUE, N.W.		CONTRACTOR	
		NO.	BY	DATE	WORK ORDER NO.	DATE	INSPECTOR'S ACCEPTANCE BY
REVISIONS		DESIGN		DRAWINGS		MICRO-FILM INFORMATION	
DATE 08/96		DATE 08/96		DATE 08/96		RECORDED BY	
SIGNED BY G/K		STAFF		DATE 08/96		NO.	
DRAWN BY D/MG		DATE 08/96		DATE 08/96		DATE	

5428 81 C12

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PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

CIRCLE K - NUNZIO
UTILITY IMPROVEMENTS
NUNZIO AVENUE N.W.



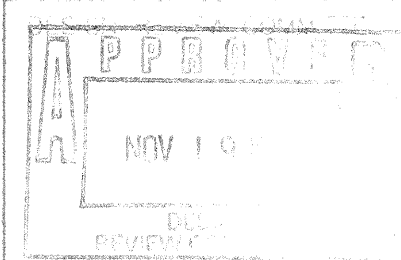
NOTE:
CONTACT TRAFFIC OPERATIONS PRIOR TO
INSTALLATION OF MARKINGS AT (857-8000).

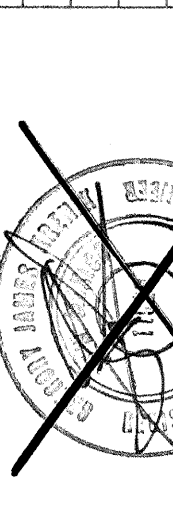
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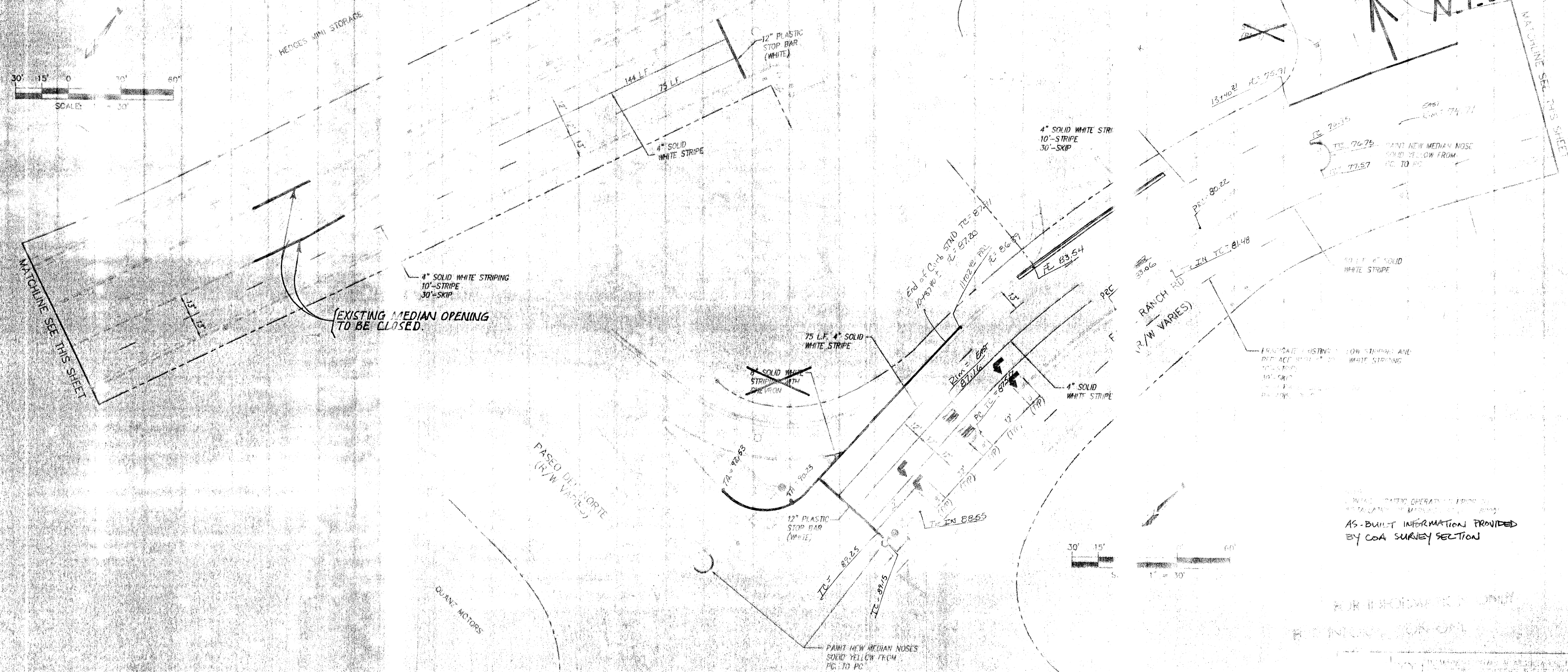
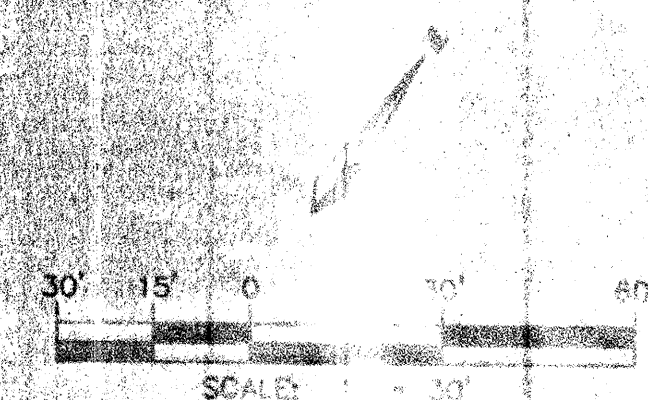
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(505) 345-2010

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

CIRCLE K - NUNZIO AVE.
STRIPING PLAN



ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION		
		FIELD NOTES		THE STATION IS A 3-1/4" ALUMINUM CAP RIVETED TO A PIPE PROTRUDING 0.1' ABOVE THE GROUND AND STAMPED "ACS 4-B131986" LOCATED NEAR THE INTERSECTION ON ARROW AVENUE AND BRYAN AVENUE, N.W.				
		NO.	BY	DATE	WORK STARTED BY			DATE
					INSPECTED BY			DATE
					FIELD OFFICE			DATE
					DRAWINGS CORRECTED BY			DATE
				MICRO-FILM INFORMATION				
				RECORDED BY			DATE	
				NO.				



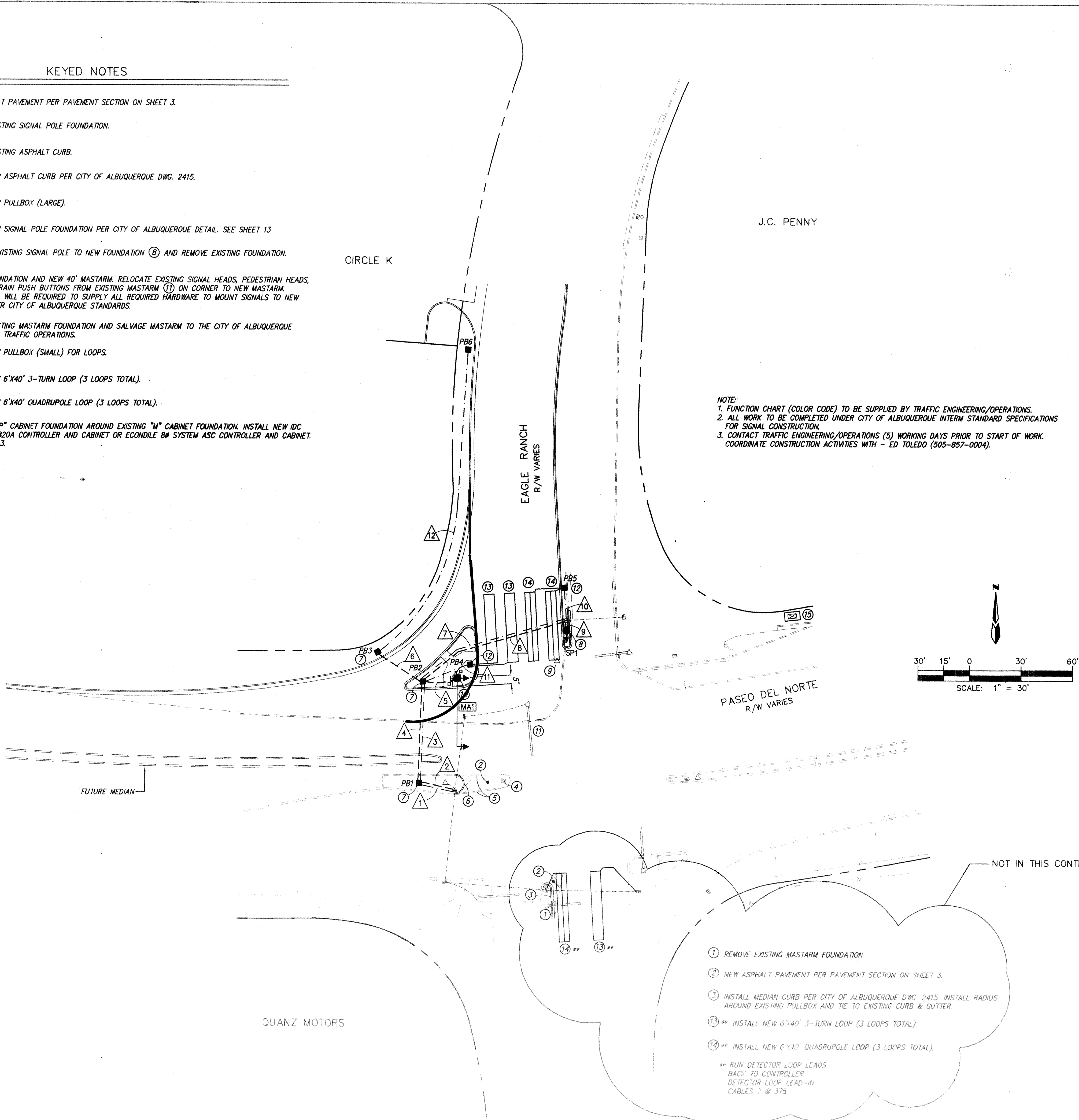
AS-BUILT INFORMATION PROVIDED
BY COA SURVEY SECTION

FOR INFORMATION OF THE COMMISSION

[illegible]

KEYED NOTES

- ② NEW ASPHALT PAVEMENT PER PAVEMENT SECTION ON SHEET 3.
- ④ REMOVE EXISTING SIGNAL POLE FOUNDATION.
- ⑤ REMOVE EXISTING ASPHALT CURB.
- ⑥ INSTALL NEW ASPHALT CURB PER CITY OF ALBUQUERQUE DWG. 2415.
- ⑦ INSTALL NEW PULLBOX (LARGE).
- ⑧ INSTALL NEW SIGNAL POLE FOUNDATION PER CITY OF ALBUQUERQUE DETAIL. SEE SHEET 13.
- ⑨ RELOCATE EXISTING SIGNAL POLE TO NEW FOUNDATION ⑧ AND REMOVE EXISTING FOUNDATION.
- ⑩ INSTALL FOUNDATION AND NEW 40' MASTARM. RELOCATE EXISTING SIGNAL HEADS, PEDESTRIAN HEADS, AND PEDESTRIAN PUSH BUTTONS FROM EXISTING MASTARM ⑪ ON CORNER TO NEW MASTARM. CONTRACTOR WILL BE REQUIRED TO SUPPLY ALL REQUIRED HARDWARE TO MOUNT SIGNALS TO NEW MASTARM PER CITY OF ALBUQUERQUE STANDARDS.
- ⑪ REMOVE EXISTING MASTARM FOUNDATION AND SALVAGE MASTARM TO THE CITY OF ALBUQUERQUE PIND YARDS, TRAFFIC OPERATIONS.
- ⑫ INSTALL NEW PULLBOX (SMALL) FOR LOOPS.
- ⑬ INSTALL NEW 6'X40' 3-TURN LOOP (3 LOOPS TOTAL).
- ⑭ INSTALL NEW 6'X40' QUADRUPOLE LOOP (3 LOOPS TOTAL).
- ⑮ POUR NEW "P" CABINET FOUNDATION AROUND EXISTING "M" CABINET FOUNDATION. INSTALL NEW IDC 88 SYSTEM B20A CONTROLLER AND CABINET OR ECONDILE 88 SYSTEM ASC CONTROLLER AND CABINET. SEE SHEET 13.



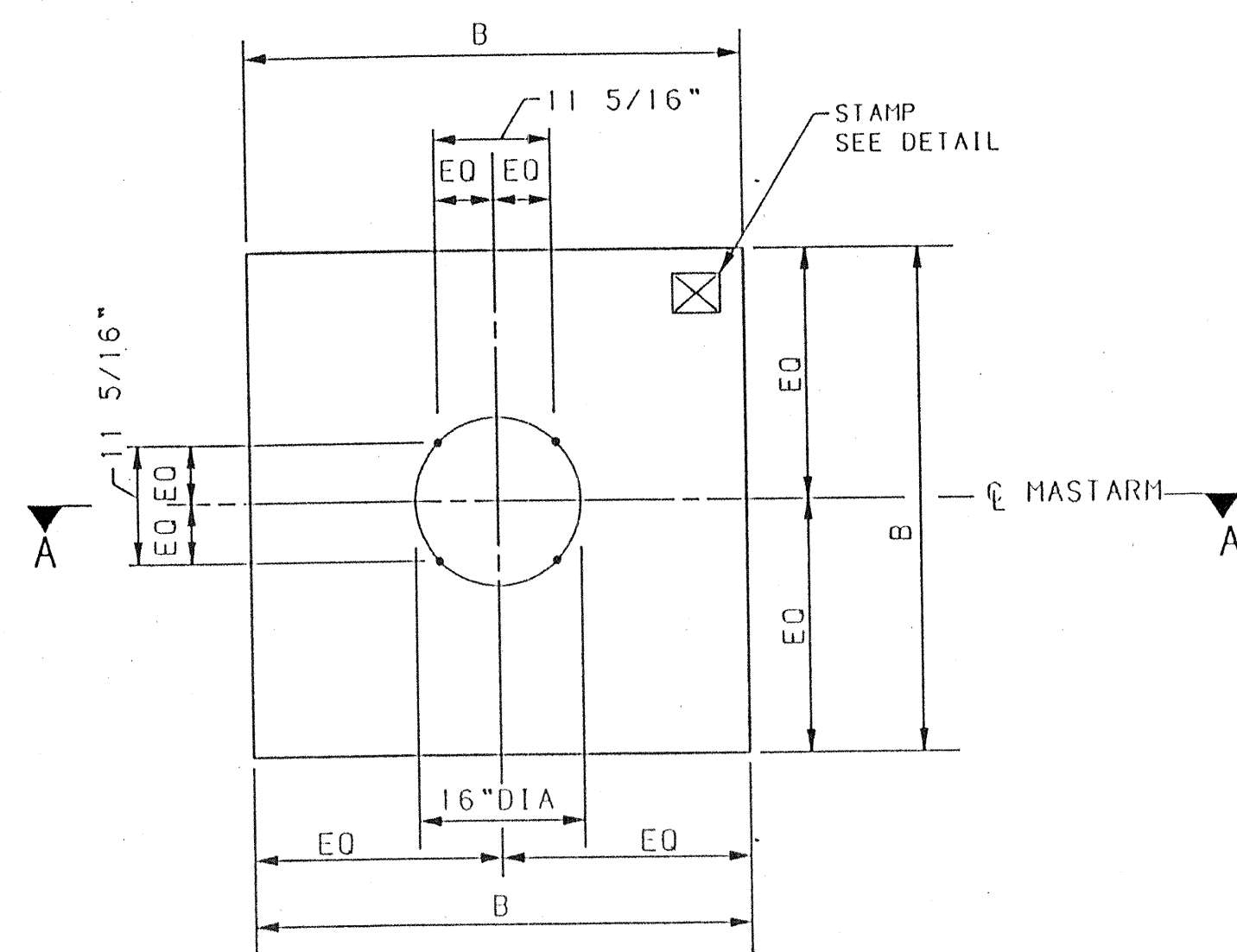
NOTE:
1. FUNCTION CHART (COLOR CODE) TO BE SUPPLIED BY TRAFFIC ENGINEERING/OPERATIONS.
2. ALL WORK TO BE COMPLETED UNDER CITY OF ALBUQUERQUE INTERM STANDARD SPECIFICATIONS FOR SIGNAL CONSTRUCTION.
3. CONTACT TRAFFIC ENGINEERING/OPERATIONS (5) WORKING DAYS PRIOR TO START OF WORK. COORDINATE CONSTRUCTION ACTIVITIES WITH - ED TOLEDO (505-857-0004).

LEGEND

- ① KEYED NOTE DESIGNATOR
- ④ CONDUIT RUN NUMBER
- NEW 3" PVC CONDUIT.
- NEW 2" PVC CONDUIT.
- NEW 6'X40' RECTANGULAR DETECTOR.
- NEW 6'X40' QUADRUPOLE LOOP DETECTOR.
- PB1 NEW TRAFFIC ELECTRICAL PULL BOX NO. 1
- SP1 NEW TRAFFIC SIGNAL
- NEW TRAFFIC SIGNAL NO. 1.
- NEW 40' TRAFFIC SIGNAL MASTARM. TYPE II FOUNDATION. (SUSPENDED SIGNAL TO HAVE BACKPLATE)
- NEW TRAFFIC SIGNAL WITH MOUNTED PEDESTRIAN SIGNAL & PUSH BUTTON STATION.
- NEW CURB & GUTTER
- EXIST. CURB AND GUTTER
- EXIST. ASPHALT CURB
- EXIST. SIGN
- EXIST. FENCE
- EXIST. OVERHEAD ELECTRIC LINE
- EXIST. POLE
- EXIST. ANCHOR
- EXIST. TRAFFIC SIGNAL (BASE ONLY)
- EXIST. TRAFFIC SIGNAL/PEDESTRIAN SIGNAL
- EXIST. TRAFFIC SIGNAL W/ MAST ARM
- EXIST. TRAFFIC SIGNAL CONTROL BOX
- EXIST. SIGNAL PULLBOX
- EXIST. ELECTRIC BOX
- EXIST. BARRICADE

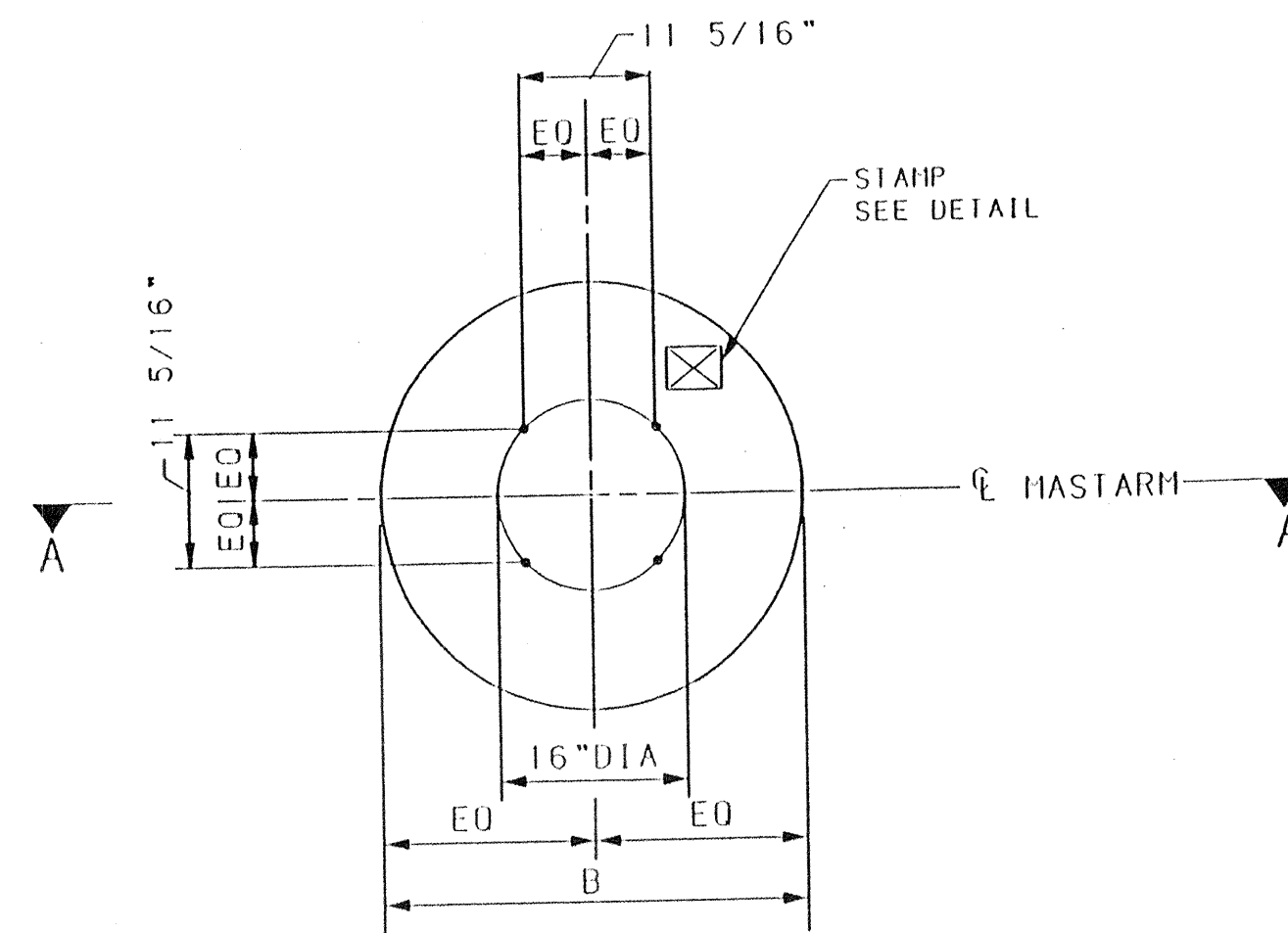
FOR INFORMATION ONLY

dmg		D. MARK GOODWIN & ASSOCIATES, P.A. CONSULTING ENGINEERS & SURVEYORS P.O. BOX 90606 ALBUQUERQUE, NEW MEXICO 87199 (505) 345-2010	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP		CIRCLE K - NUNZIO TRAFFIC SIGNAL PLAN EAGLE RANCH ROAD AND PASEO DEL NORTE INTERSECTION	
DESIGNED BY	COA	DATE	09/96
DRAWN BY	COA	DATE	09/96
CHECKED BY	COA	DATE	09/96
NOV 1 1996		1996	
5428 81		012	
7		14	



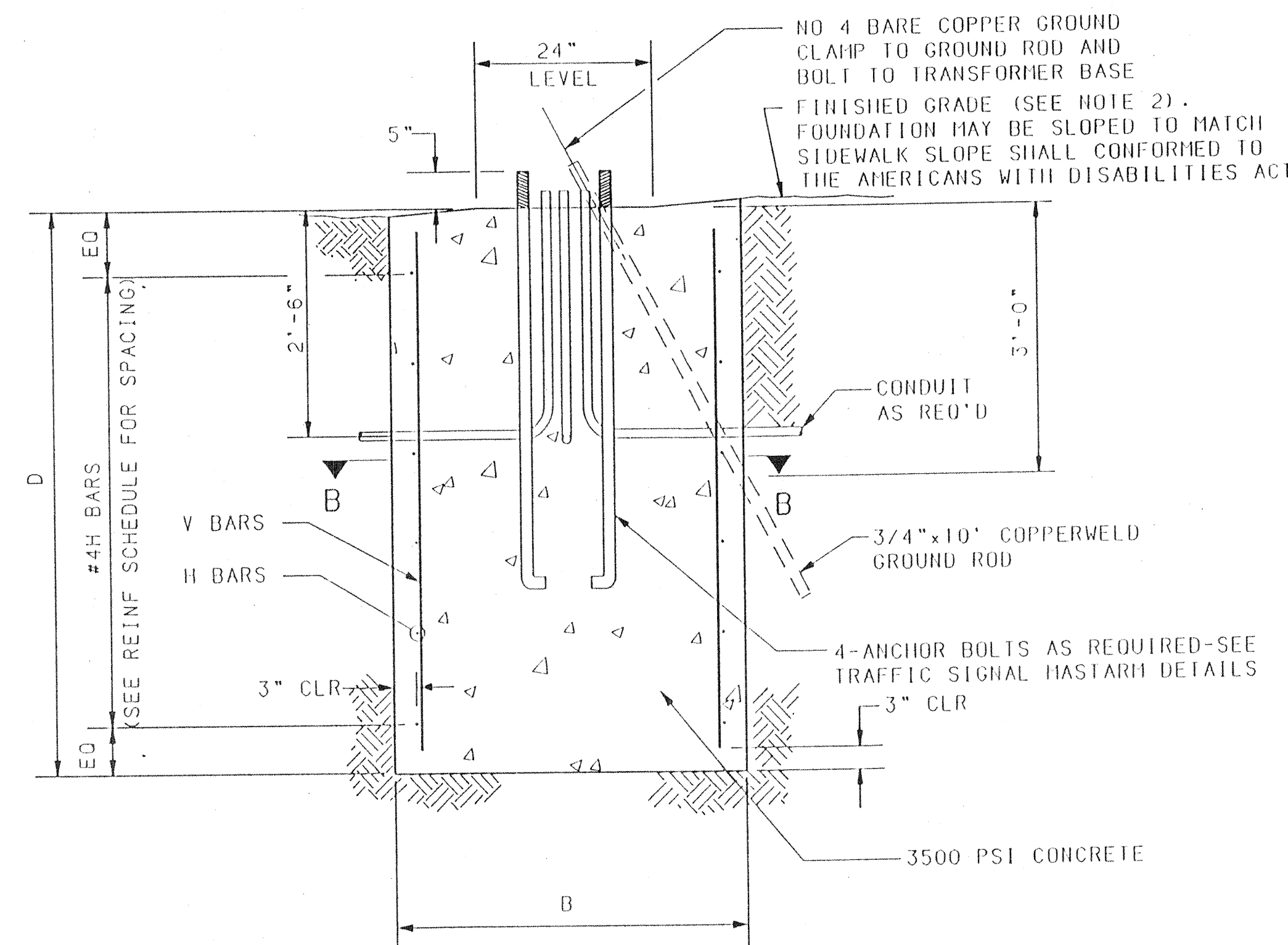
PLAN VIEW (SQUARE)

NO SCALE



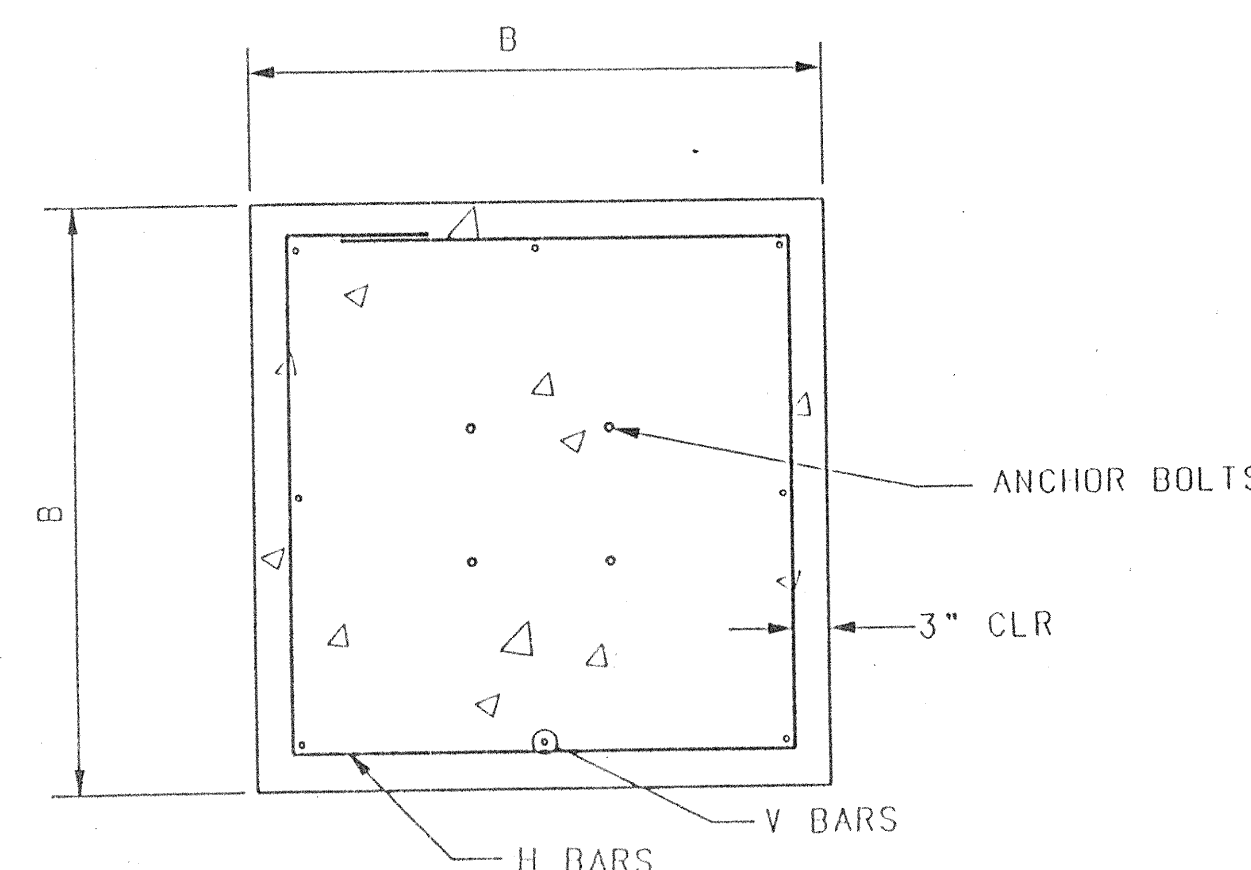
PLAN VIEW (ROUND)

NO SCALE



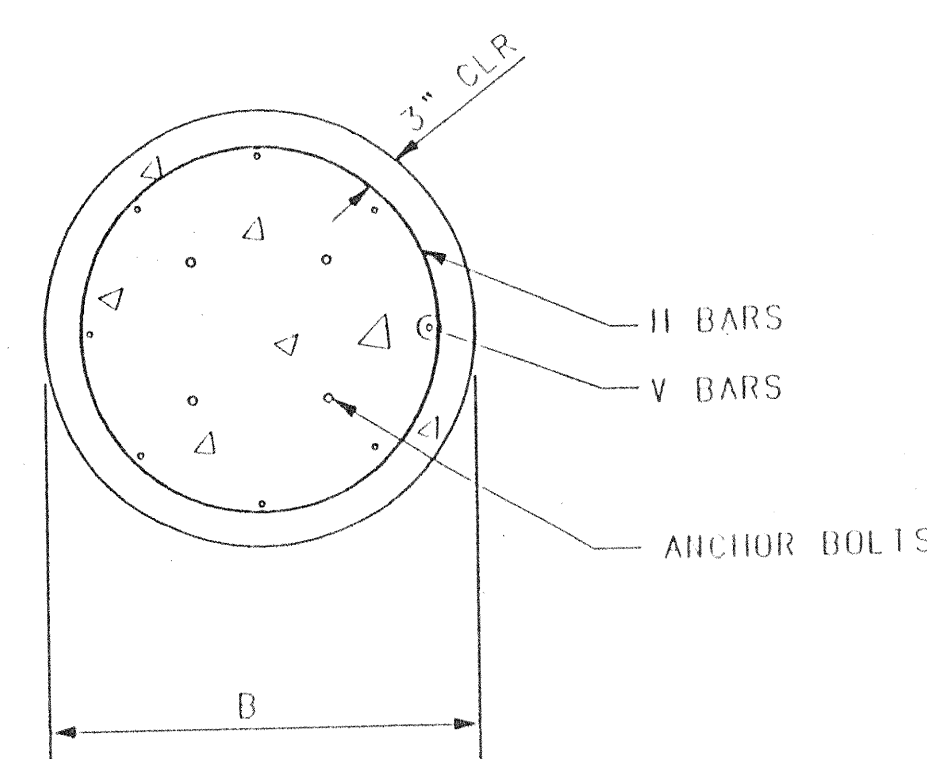
SECTION A-A (ROUND OR SQUARE)

NO SCALE



SECTION B-B (SQUARE)

NO SCALE



SECTION B-B (ROUND)

NO SCALE

TRAFFIC SIGNAL MASTARM FOUNDATION NOTES

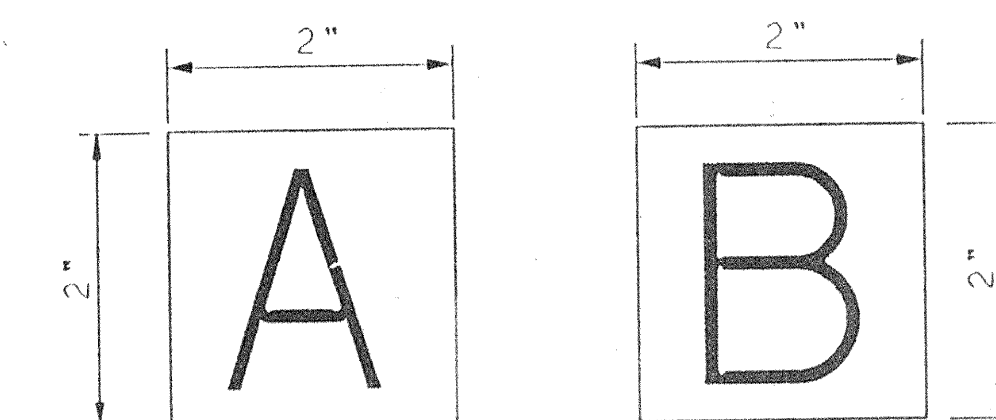
1. REFER TO THE PLANS FOR LOCATIONS OF TRAFIC SIGNAL MASTARM FOUNDATIONS.
2. FINISHED GRADE FOR THE FOUNDATIONS SHALL BE ESTABLISHED IN THE FIELD BY THE PROJECT MANAGER.
3. THE FOUNDATIONS SHOWN HERE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT REVISION.
4. CONCRETE SHALL BE 3500 PSI FOR EXTERIOR STRUCTURES. REFER TO TABLE 101.C OF THE SPECIFICATIONS.
5. REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60.
6. THE TOP 6 INCHES OF THE FOUNDATION PEDESTAL SHALL BE FORMED TO THE DIMENSIONS SHOWN ON THIS SHEET TO FORM NEAT LINES. CONCRETE BELOW 6 LINES MAY BE CAST AGAINST THE EARTH.
7. THE CONCRETE SHALL GAIN 80% OF THE DESIGN STRENGTH PRIOR TO INSTALLING THE TRAFFIC SIGNAL MASTARM.
8. ALL FOUNDATIONS SHALL INCLUDE COPPERWELD GROUND RODS. ALL GROUND RODS SHALL BE 3/4" DIA X 10'-0" AND WILL BE CONSIDERED INCIDENTAL TO THE FOUNDATIONS BID ITEMS.
9. ALL FOUNDATIONS SHALL BE STAMPED EITHER "A" OR "B" TO SHOW TYPE CONSTRUCTED (SEE STAMP DETAIL).

FOUNDATION DIMENSIONS AND QUANTITIES

FOUNDATION TYPE	SIGNAL ARM SPAN (FT)	DIMENSION B (WIDTH)	DIMENSION D (DEPTH)	REINFORCING V BARS MARK	REINFORCING H BARS MARK	REBAR POUNDS	3500 PSI CONCRETE CUBIC YARDS	NOTES
TYPE A (SQUARE)	15	3'-6"	5'-0"	#4V2	#3H2	49.1	2.27	
	20	-	-	-	-	-	-	
	25	-	-	-	-	-	-	
TYPE B (SQUARE)	30	4'-0"	6'-3"	#5V1	#3H1	82.6	3.70	
	35	-	-	-	-	-	-	
	40	-	-	-	-	-	-	
TYPE A (ROUND)	15	2'-6"	8'-6"	#6V4	#3H4	98.1	1.55	ROUND SHAPE TO BE USED ONLY WHERE SPECIFICALLY NOTED ON PLANS OR WHEN APPROVED BY THE PROJECT MANAGER.
	20	-	-	-	-	-	-	
	25	-	-	-	-	-	-	
TYPE B (ROUND)	30	3'-0"	11'-9"	#7V3	#3H3	179.7	3.08	
	35	-	-	-	-	-	-	
	40	-	-	-	-	-	-	

REINFORCING SCHEDULE (GRADE 60 BARS)

MARK	QUANT	TYPE	SIZE	LENGTH	COMMENTS
#5V1	8	1	5	5'-9"	
#4V2	8	1	4	4'-6"	
#7V3	6	1	7	11'-3"	
#6V4	6	1	6	8'-0"	
#3H1	6	2	3	15'-4"	A = 42". TIES AT 14" OC
#3H2	5	2	3	13'-4"	A = 36". TIES AT 12" OC
#3H3	12	3	3	9'-3"	DIA = 30". TIES AT 12" OC
#3H4	9	3	3	7'-8"	DIA = 24". TIES AT 12" OC

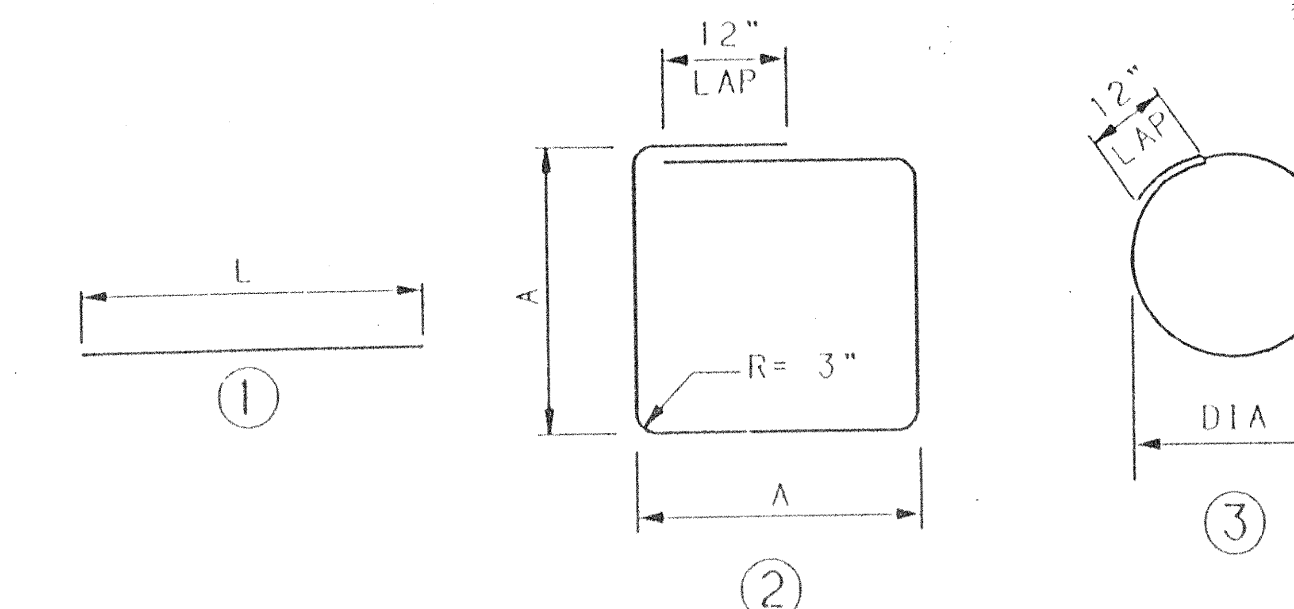


STAMP CONCRETE 1/4" DEEP TO MATCH FOUNDATION SIZE

FOR INFORMATION ONLY
FOR INFORMATION ONLY

STAMP DETAIL

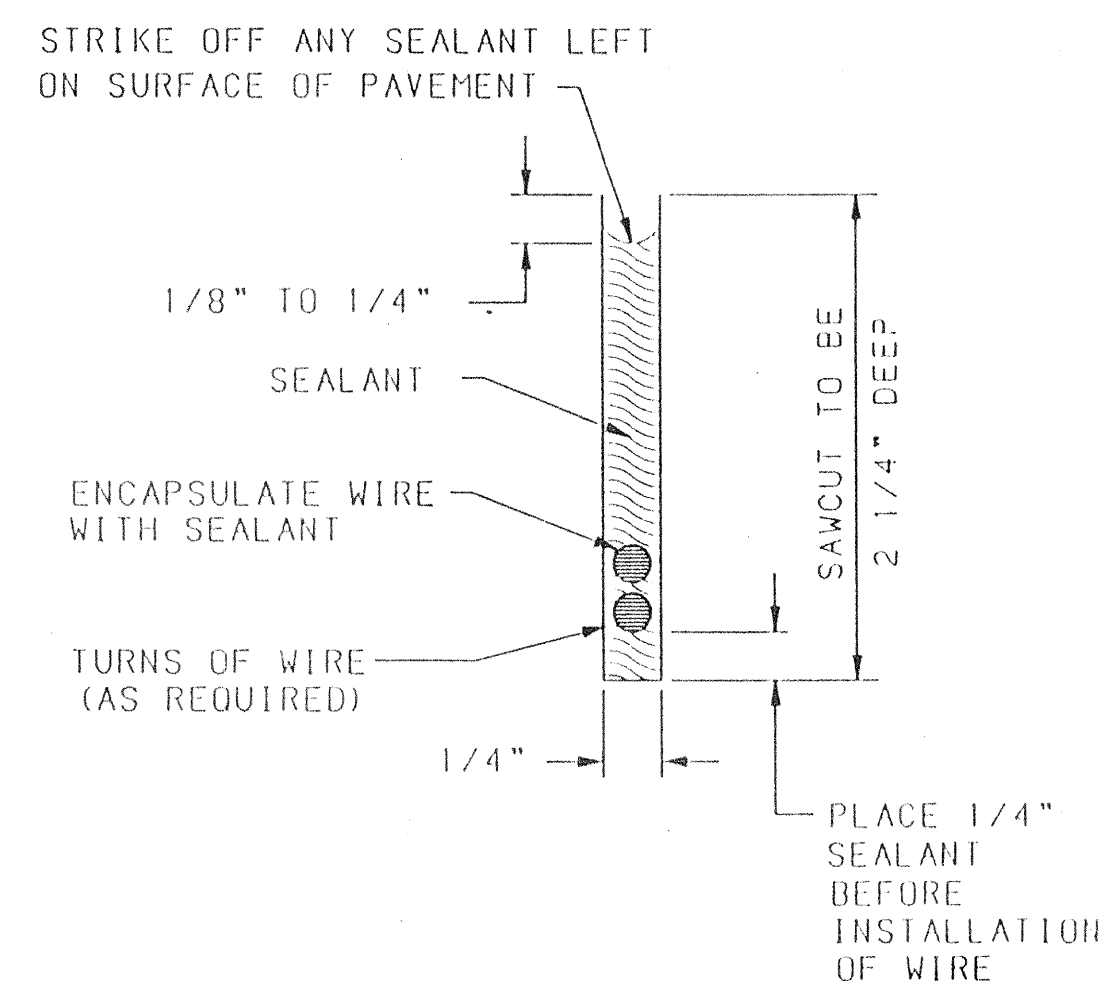
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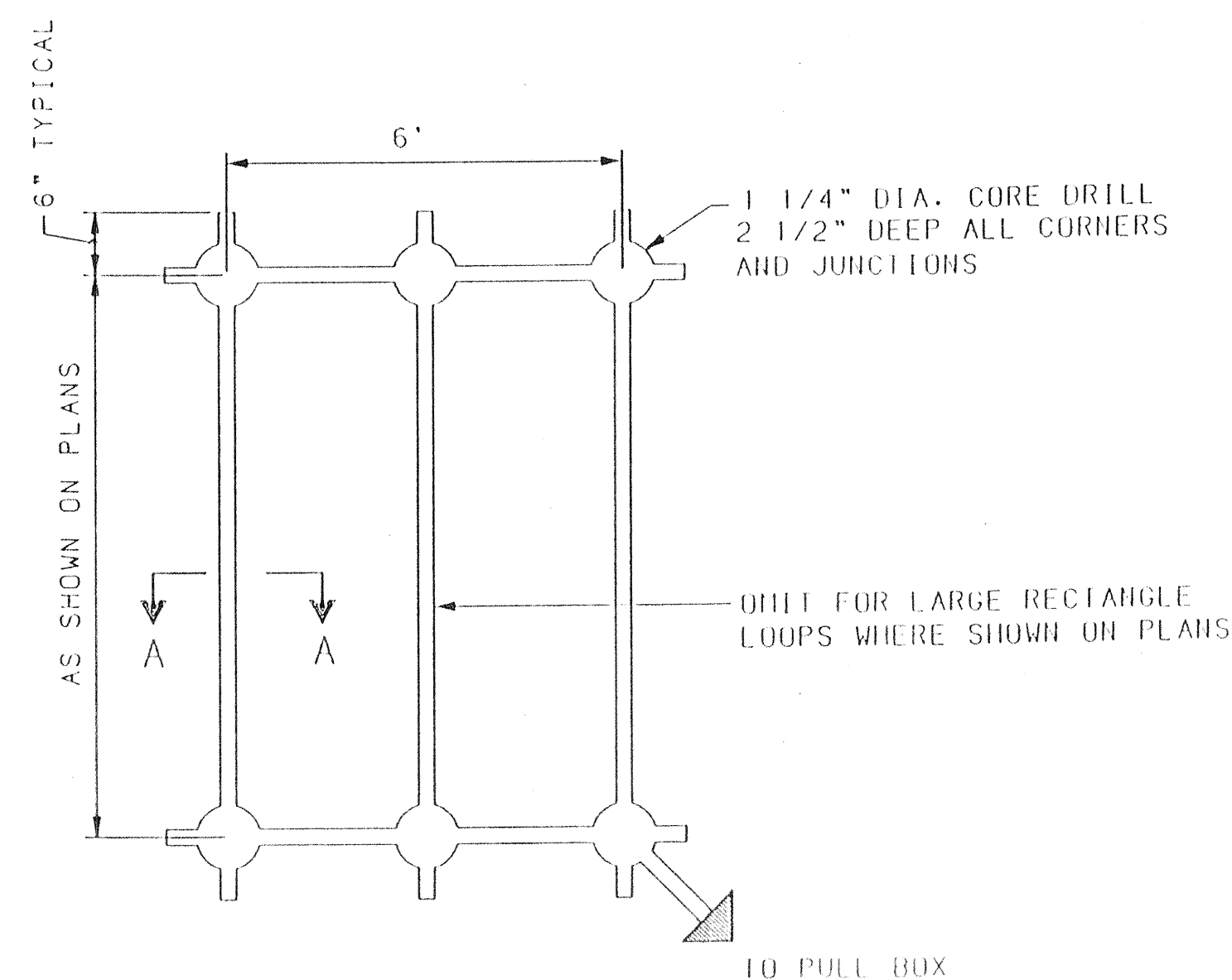
BAR BENDING DIAGRAM

AS BUILT INFORMATION			
CONTRACTOR	WORK ORDER NO.	DATE	DATE
SURVEY INFORMATION			
FIELD NOTES			
NO.	DATE	BY	
ENGINEER'S SEAL			
REMARKS	BY	DATE	
DESIGNED BY	COA	DATE	8/96
DRAWN BY	COA	DATE	8/96
CHECKED BY	COA	DATE	8/96

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: TRAFFIC SIGNAL MASTARM DETAILS FOUNDATION DETAILS TYPE II AND TYPE III STANDARDS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	DATE	MO./DAY/YR.
CITY PROJECT NO.	542881	ZONE MAP NO.	C12
		SHEET	10 OF 14

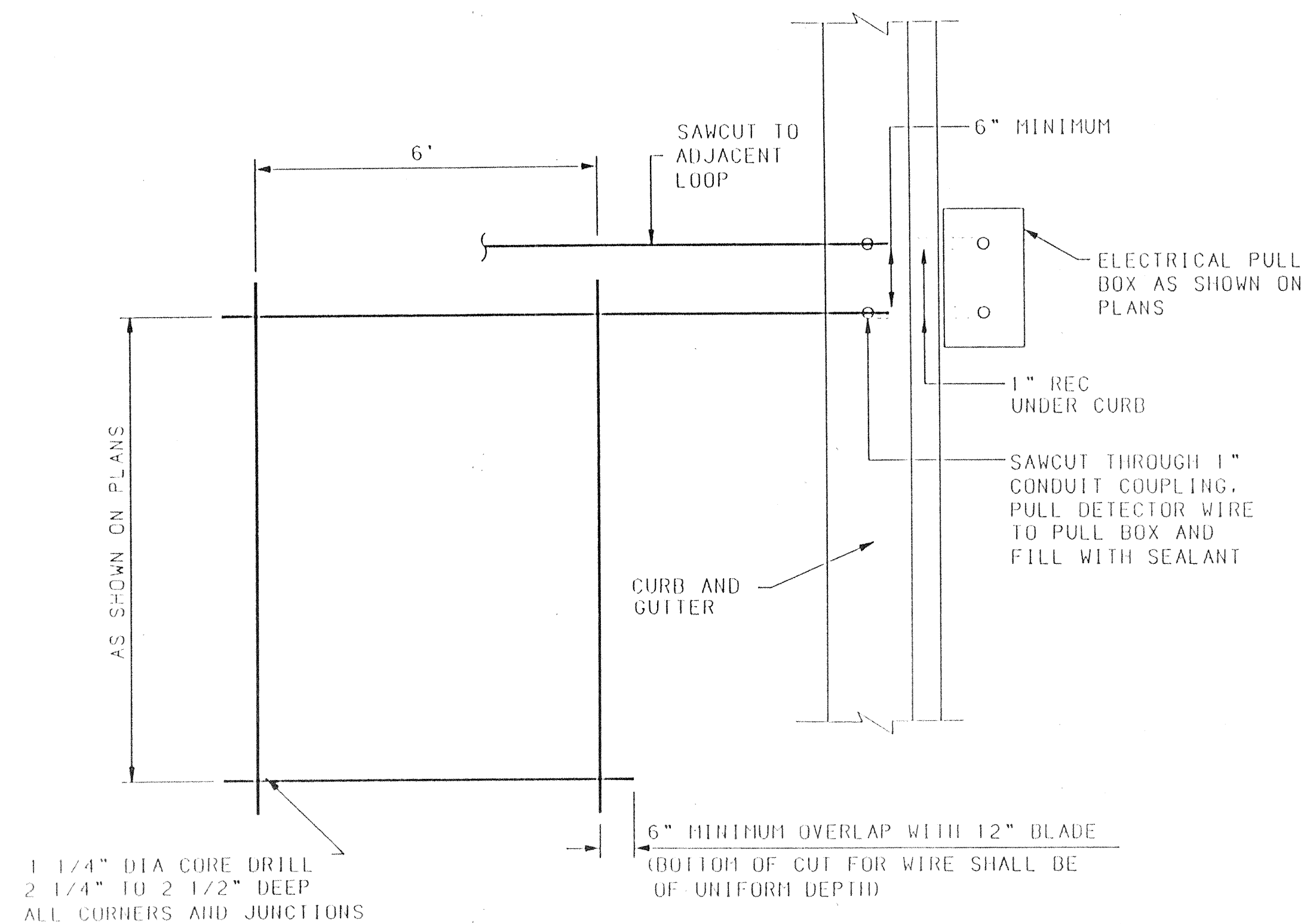


SECTION A-A

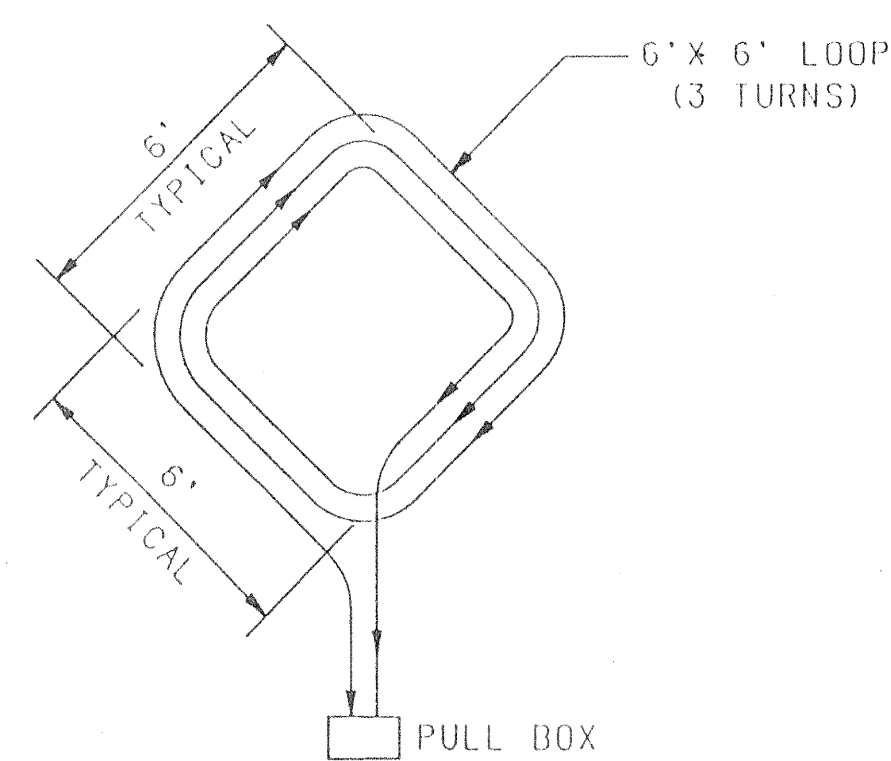


PLAN VIEW

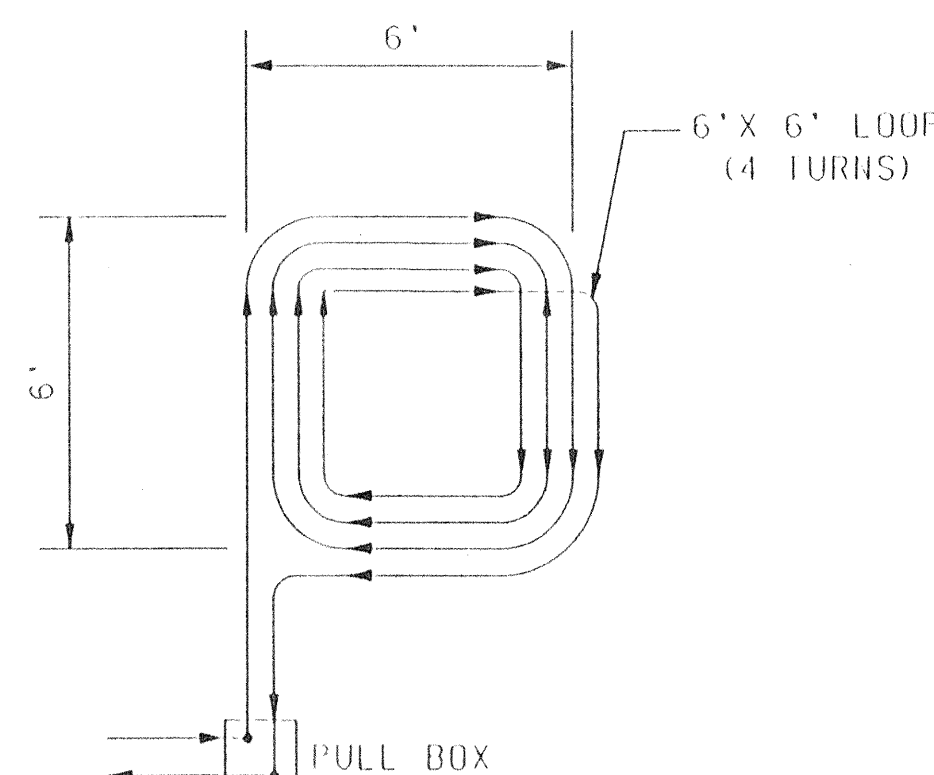
TYPICAL ROADWAY LOOP SAWCUT DETAIL



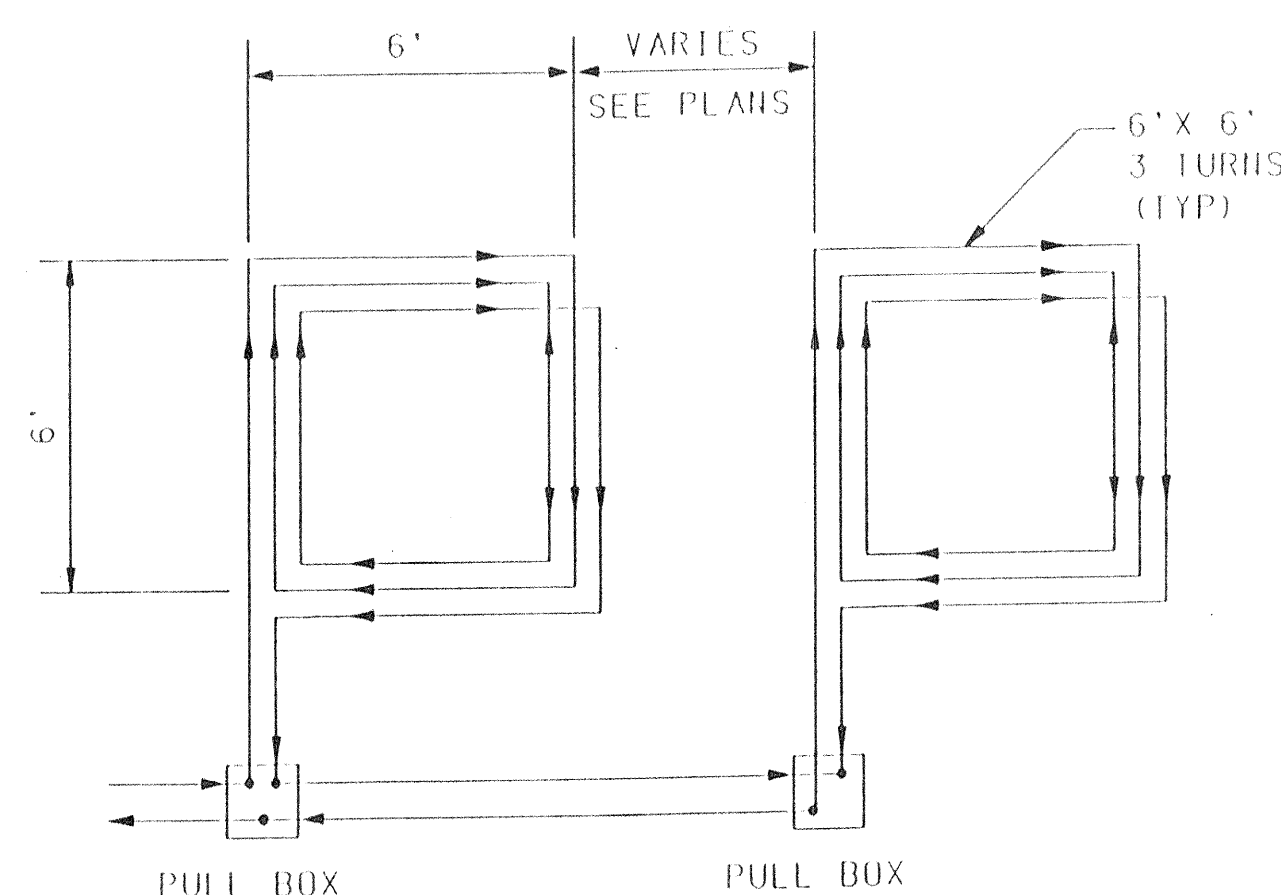
PLAN VIEW



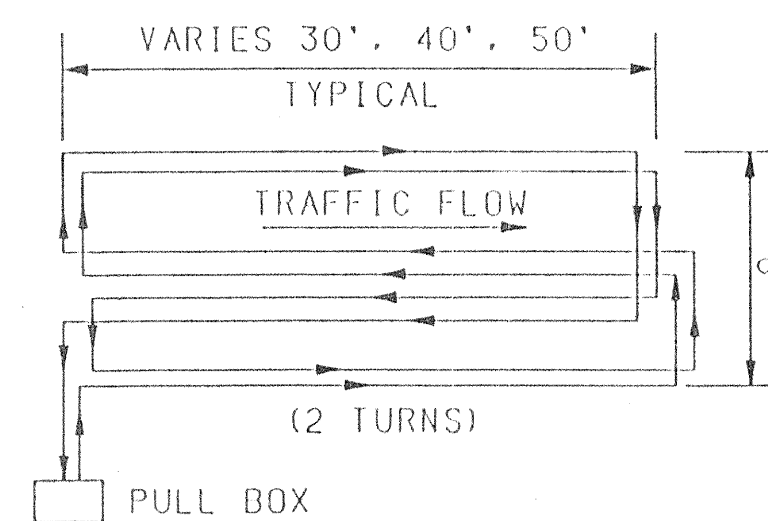
EXTEND CALL LOOP WIRING DETAIL



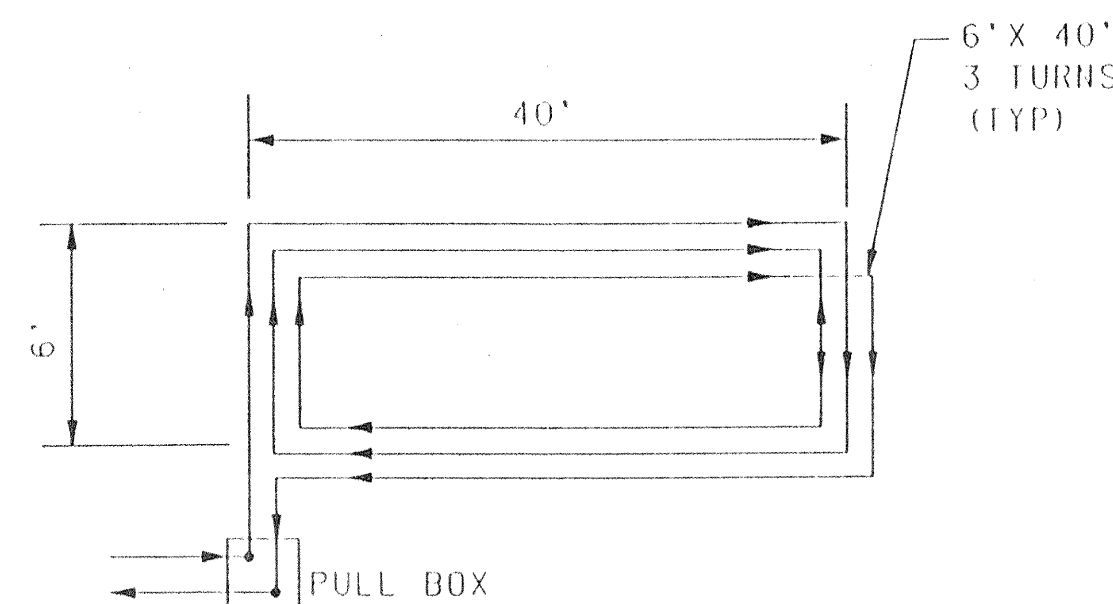
SYSTEM LOOP WIRING DETAIL



SERIES LOOP WIRING DETAIL



QUADRUPOLE LOOP WIRING DETAIL



LARGE RECTANGULAR LOOP WIRING DETAIL

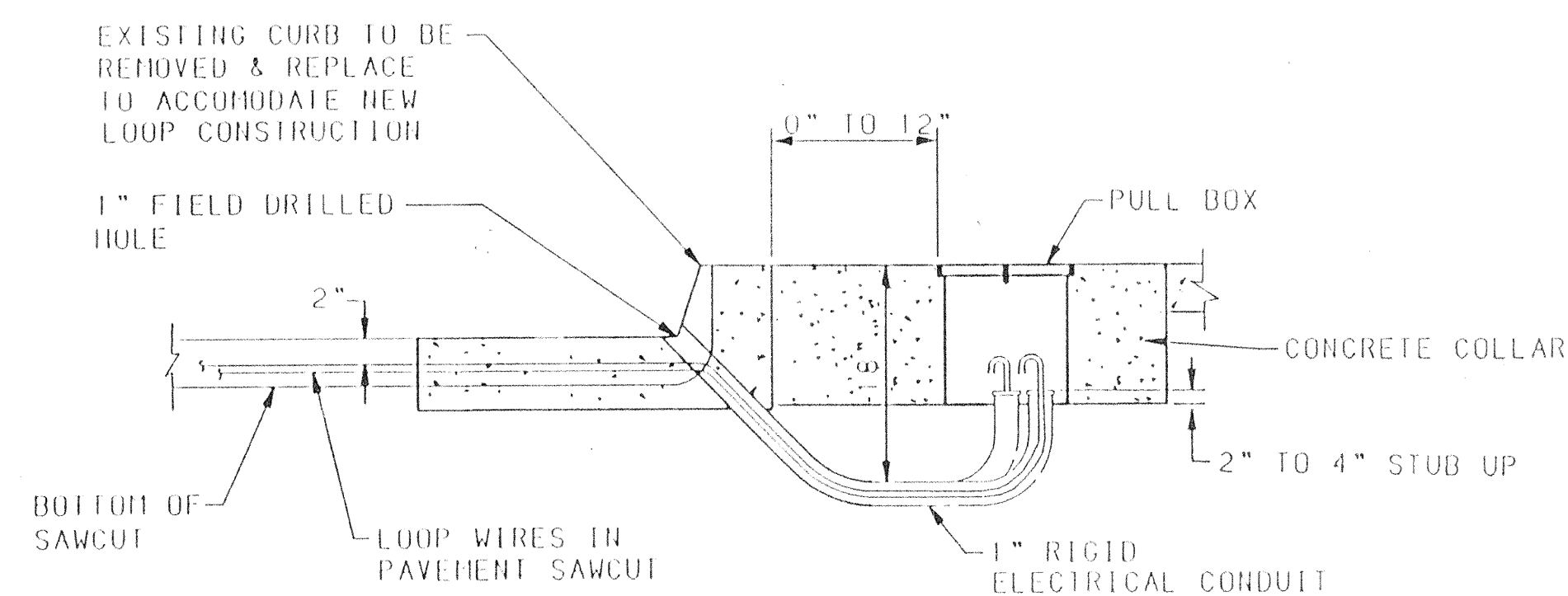
TYPICAL LOOP WIRE PLACEMENT DETAILS

NOTES

1. WIRES MUST BE WOUND IN THE DIRECTION SHOWN.
2. QUADRUPOLE LOOPS SHALL HAVE 2 TURNS.
3. EXTEND CALL LOOPS SHALL HAVE 3 TURNS.
4. SYSTEM DETECTOR LOOPS SHALL HAVE 4 TURNS.
5. LARGE RECTANGLE LOOPS SHALL HAVE 3 TURNS

LOOP DETECTOR NOTES

1. ALL LOOP DETECTOR WIRE SHALL BE NO. 14 AWG STRANDED COPPER WIRE WITH CROSSLINKED POLYETHYLENE INSULATION (INDUSTRY TYPE XIIIW) CONFORMING TO THE REQUIREMENTS OF I.H.S.A. SPECIFICATIONS NO 51-3 1984. BACKER ROD SHALL NOT BE USED IN THE INSTALLATION OF LOOP (EXCEPT PIECES LESS THAN 12\"/>
2. ALL LOOP LEAD IN CABLES SHALL BE TAGGED AT CABINET TO IDENTIFY EACH CABLE BY LOOP AND AND PHASE NUMBER.
3. GROUND LOOP LEAD IN CABLE SHIELDING IN CONTROL CABINET.
4. SEPARATE 1\"/>



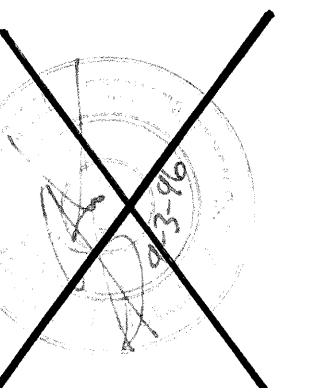
SECTION

LOOP WIRE TERMINATION DETAILS

FOR INFORMATION ONLY

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP		TITLE: TRAFFIC SIGNAL LOOP DETECTOR DETAILS	
DESIGN REVIEW COMMITTEE 	CITY ENGINEER APPROVAL 	NO. / DAY / YR. 11 / 19 / 1999	NO. / DAY / YR. 11 / 19 / 1999
CITY PROJECT NO. 542881		ZONE MAP NO. C12	SHEET 11 OF 14

SURVEY INFORMATION				BENCH MARKS				AS BUILT INFORMATION			
NO.	FIELD NOTES			THE STATION IS A 3-1/4" ALUMINUM CAP RIVETED TO A PIPE PROTRUDING 0.1' ABOVE THE GROUND AND STAMPED	CONTRACTOR	WORK INSPECTED BY	DATE	NO.	DATE	RECORDED BY	DATE
	BY	DATE									
				ACS 4-B131986, LOCATED NEAR THE INTERSECTION ON ARROW AVENUE AND BRYAN AVENUE, N.W.							
				X= 375489.27							
				Y= 1525104.55							
				Z= 5169.511							



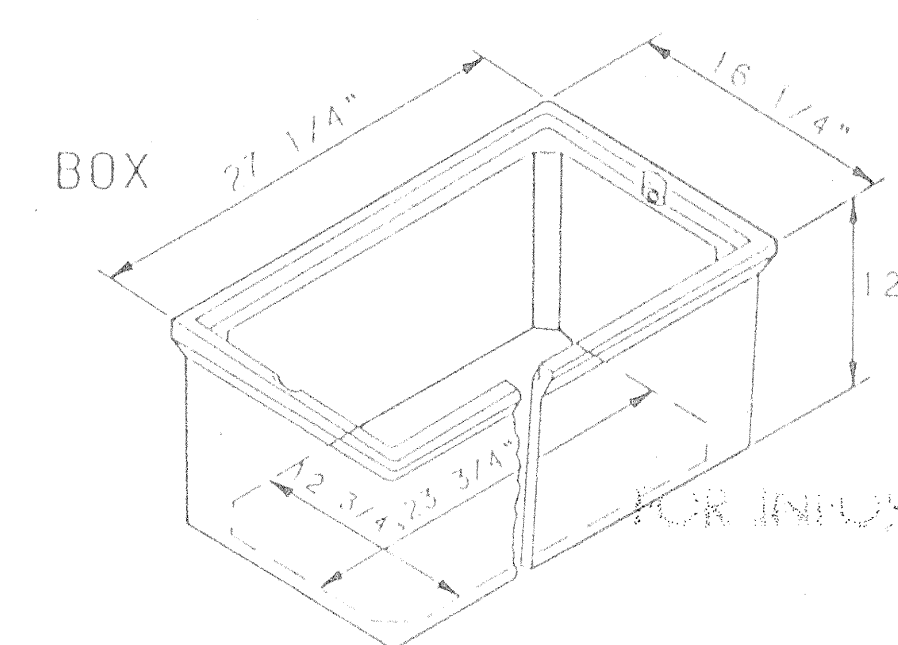


NOTE: THE CONCRETE COLLAR FOR THE PULL BOXES
WILL BE CONSIDERED INCIDENTAL TO THE
TO THE PULL BOX BID ITEMS.



TRAFFIC SIGNAL PULLBOX (TYPICAL)

RETROFIT INSTALLATION



STANDARD PULL BOX

PULL BOX DETAILS

NOTES FOR HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOXES AND COVERS

1. MATERIAL TO BE AN AGGREGATE CONSISTING OF SAND AND GRAVEL BOUND TOGETHER WITH A POLYMER AND REINFORCED WITH A HEAVY WAVE FIBERGLASS. THE MATERIAL MUST HAVE THE FOLLOWING MECHANICAL PROPERTIES: COMPRESSIVE STRENGTH-11,000 PSI, TENSILE STRENGTH-1700 PSI, FLEXURAL STRENGTH-7500 PSI.
2. ALL PULL BOX COVERS SHALL BE HEAVY DUTY REINFORCED POLYMER MORTAR, HAVING A SERVICE LOAD OF 15,000 LBS. OVER A 10" SQUARE (150 PSI). NO CONCRETE OR STEEL COVERS WILL BE ACCEPTABLE.
3. ELECTRICAL PULL BOX (SHALL) SHALL BE A HEAVY DUTY REINFORCED POLYMER PULL BOX AND COVER MEASURING 12-7/8"x12-7/8"x3/4".

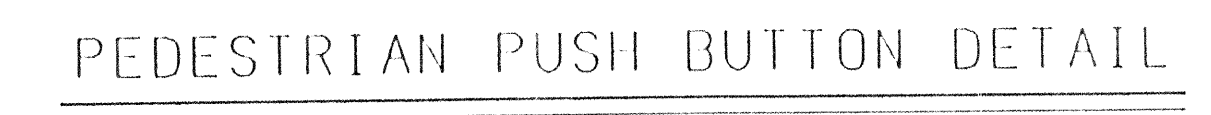
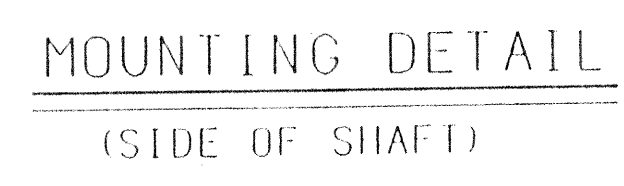
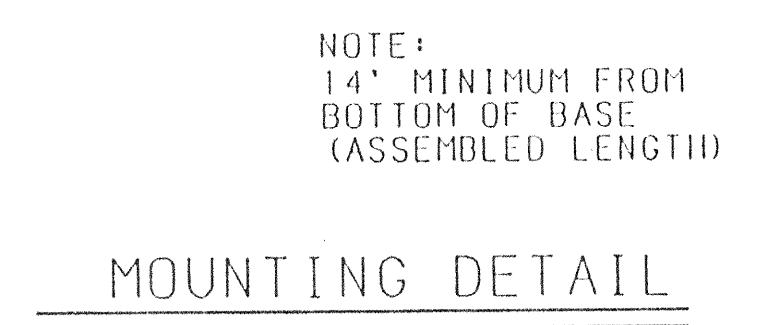
dmg D. MARK GOODWILL & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 345-2010



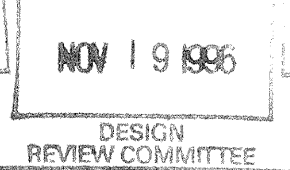
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

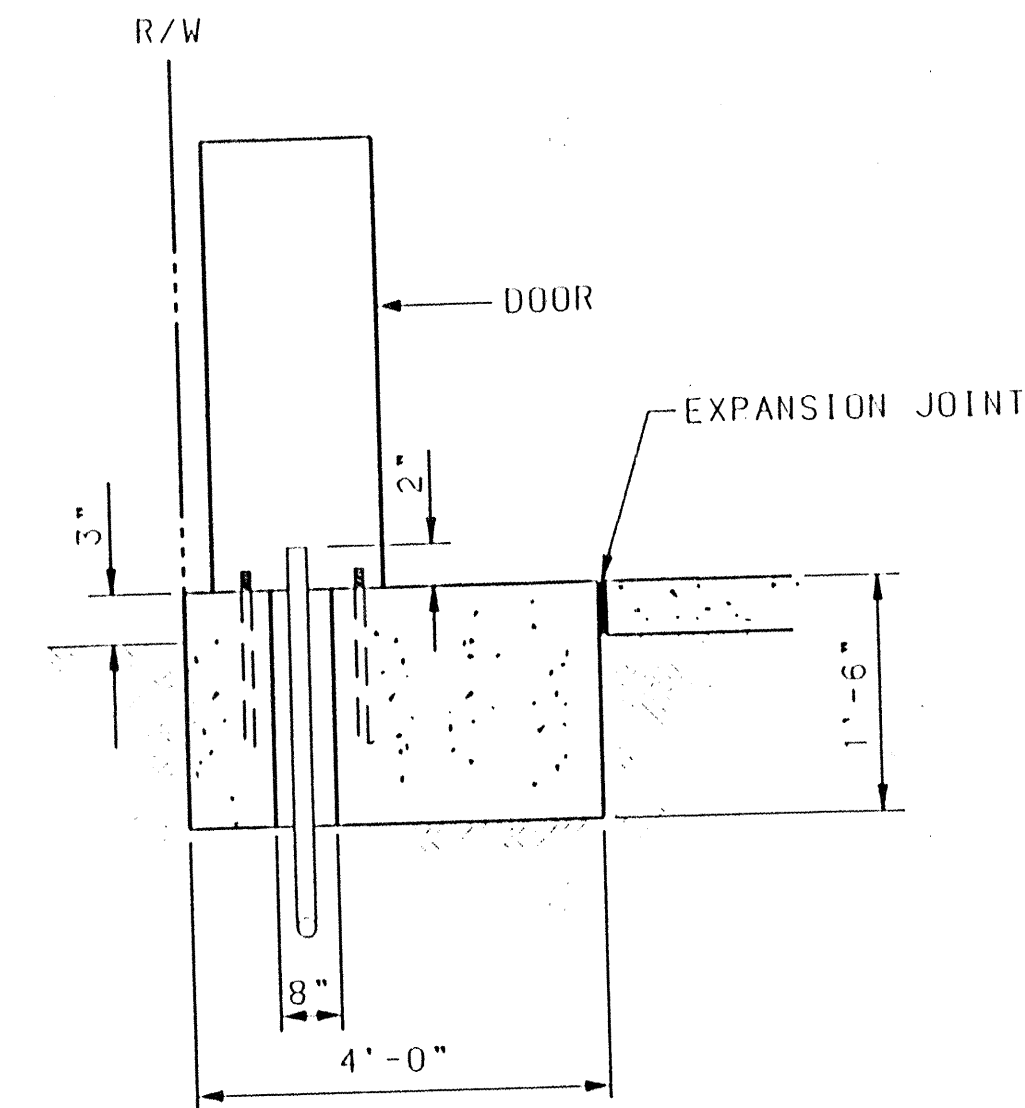
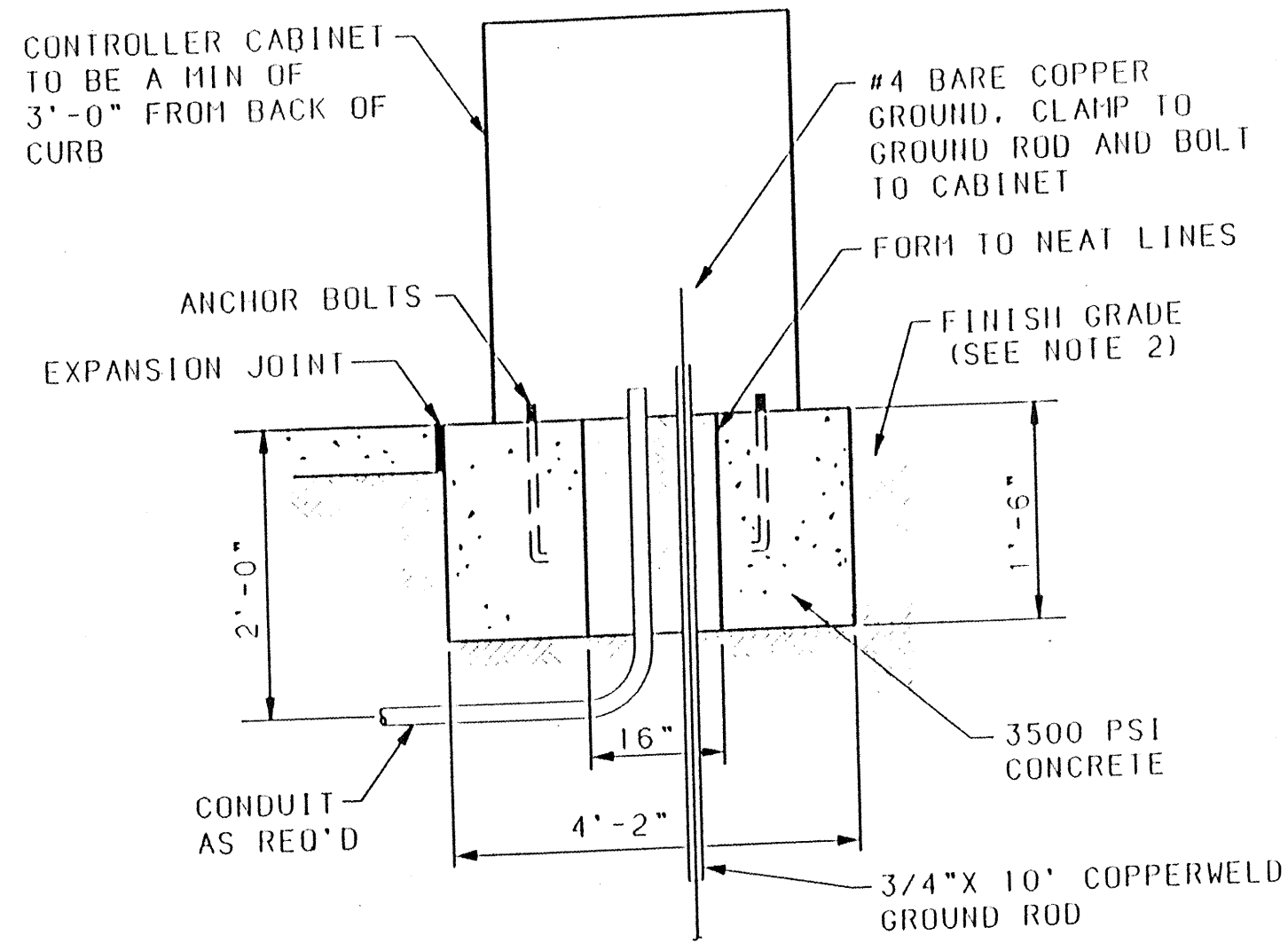
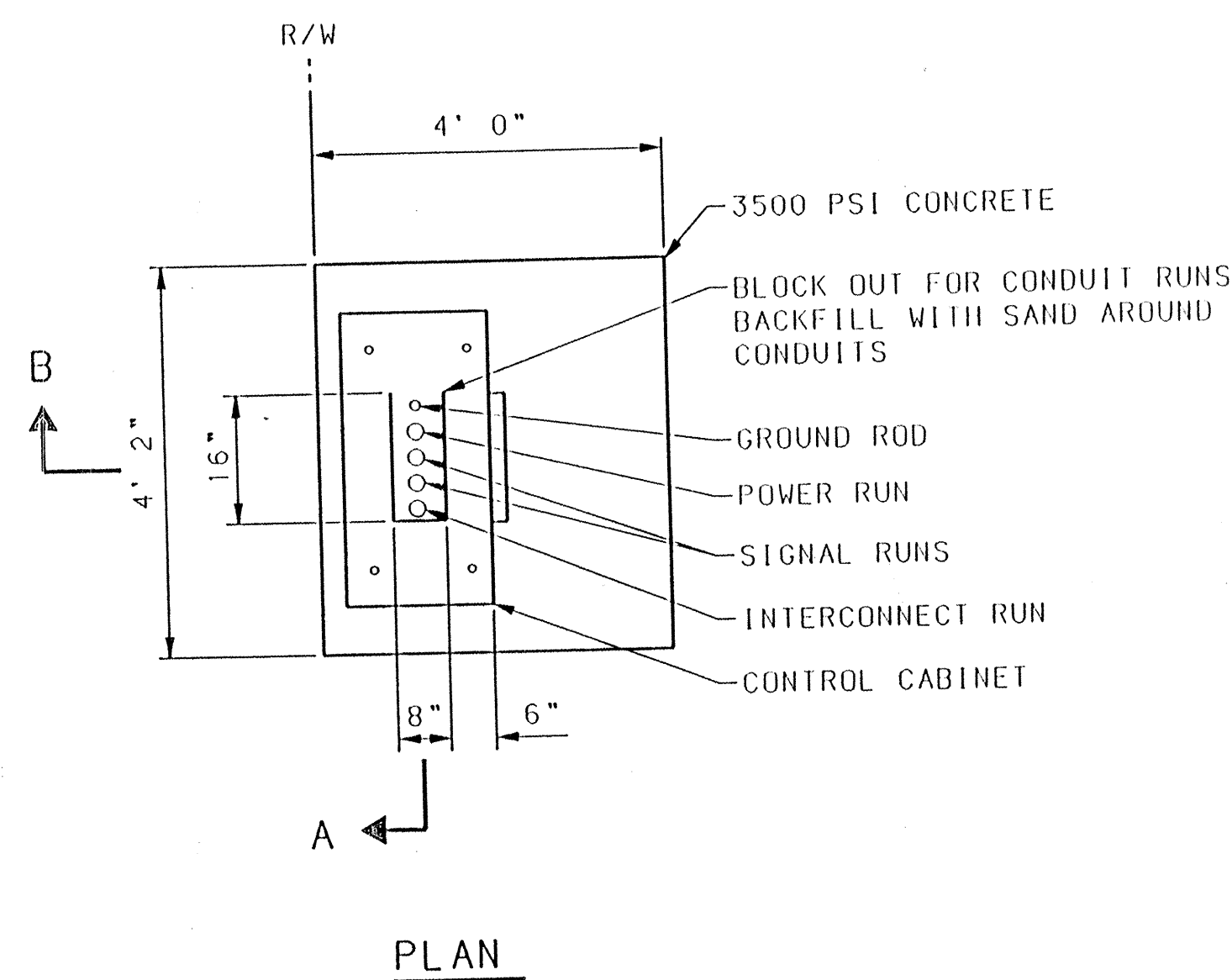
FILE: TRAFFIC SIGNAL
PULL BOX DETAILS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	DATE RECEIVED	MO./DAY/YR.	MO./DAY/YR.
NOV 1 1999				
CITY PROJECT NO. 542881	ZONE MAP NO. C12	SHEET 12 OF 14		



- STREET NAME SIGN DETAIL

 D. MARK GOODWIN & ASSOCIATES, P.A. CONSULTING ENGINEERS & SURVEYORS P.O. BOX 90606 ALBUQUERQUE, NEW MEXICO 87199 (505) 345-2010				ENGINEER'S SEAL		SURVEY INFORMATION FIELD NOTES NO. BY		BENCH MARKS THE STATION IS A 3-1/4" ALUMINUM CAP RIVETED TO A PIPE PROTRUDING 0.1" ABOVE THE GROUND AND STAMPED "ACS 4-B13.1986" LOCATED NEAR THE INTERSECTION ON ARROW AVENUE AND BRYAN AVENUE, N.W. X= 375485.27 Y= 1525104.55 Z= 5765.511		AS BUILT INFORMATION CONTRACTOR DATED BY INSPECTOR'S FIELD CHECK BY VERIFICATION BY CORRECTED BY MICRO-FILM INFORMATION RECORDED BY NO.	
NO. DATE REMARKS REVISIONS DESIGN		NO. DATE DESIGNED BY COA DATE 8/96 DRAWN BY COA DATE 8/96 CHECKED BY COA DATE 8/96									
FOR INFORMATION ONLY											
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP											
TITLE: TRAFFIC SIGNAL MISCELLANEOUS DETAILS-GALVANIZED STEEL											
DESIGN REVIEW COMMITTEE 		CITY ENGINEER APPROVAL 		LAST DESIGN UPDATE		MO./DAY/YR.		MO./DAY/YR.		SHEET OF	
CITY PROJECT NO. 54-2831		ZONE MAP NO. C12		SHEET 13 OF 14							

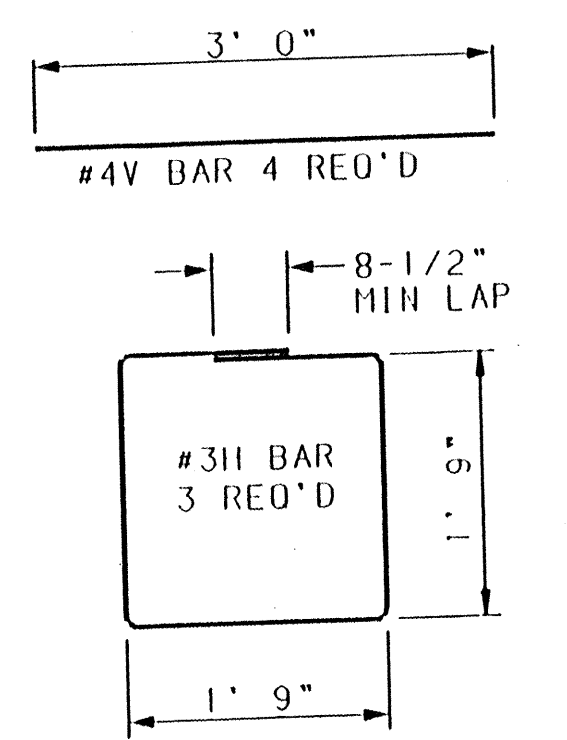
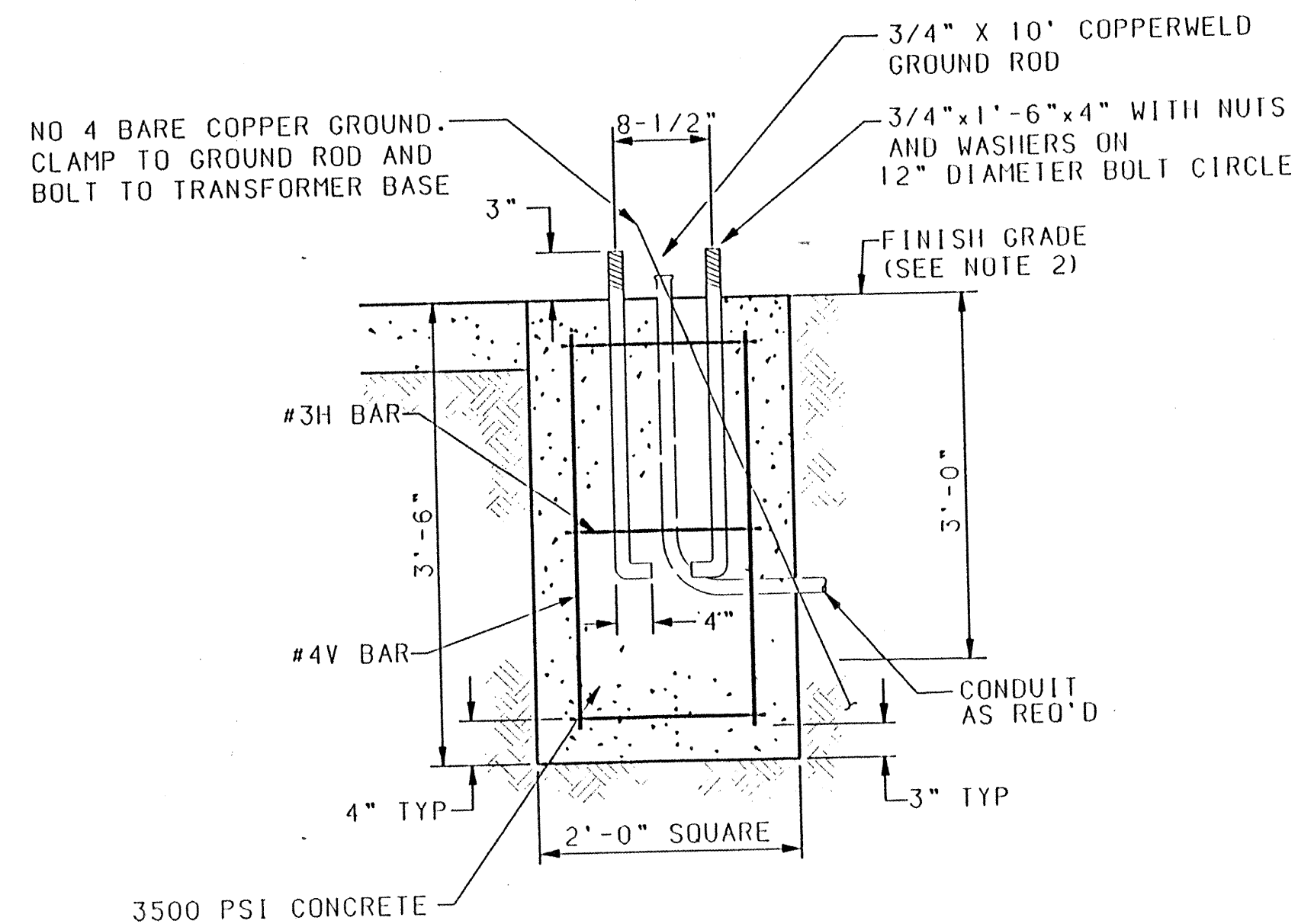


SECTION B

SECTION A

CONTROLLER FOUNDATION DETAIL

IN THE EVENT THE SUPPLIED CABINET WOULD OVERLAP THE SIDES OF ABOVE FOUNDATION, THE FOUNDATION SHALL BE INCREASED IN SIZE AS DIRECTED BY THE ENGINEER.



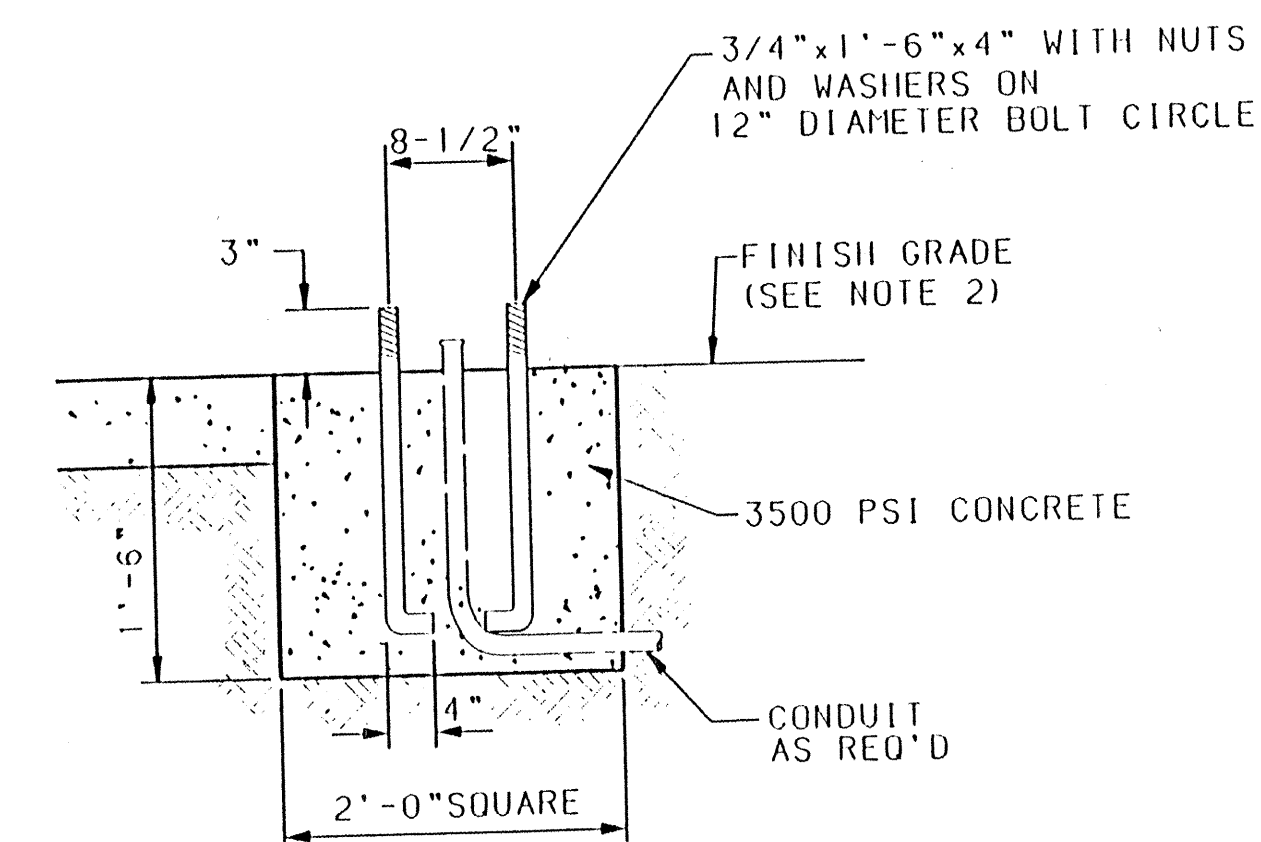
REINFORCING STEEL

PEDESTAL FOUNDATION DETAIL

ESTIMATED QUANTITIES

FOUNDATION TYPE	3500 PSI CONCRETE CU YD	REINFORCING BARS POUNDS
PEDESTAL FOUNDATION	0.52	17
CONTROLLER FOUNDATION (TYPE H & P)	0.88	--
SPLICE CABINET FOUNDATION	0.13	--

(FOR CONTRACTORS INFORMATION ONLY)



SPLICE CABINET FOUNDATION DETAIL

TRAFFIC SIGNAL FOUNDATION NOTES

- ALL FOUNDATIONS SHALL INCLUDE COPPERWELD GROUND RODS. ALL GROUND RODS SHALL BE 3/4" ϕ x 10'-0" AND WILL BE CONSIDERED INCIDENTAL TO THE FOUNDATION BID ITEMS.
- FINISHED GRADE FOR ALL FOUNDATIONS TO BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. FOUNDATIONS MAY BE SLOPED TO MATCH SIDEWALKS. SLOPES SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT REQUIREMENTS.

D. MARK GOODWIN & ASSOCIATES, P.A. CONSULTING ENGINEERS & SURVEYORS P.O. BOX 90606 ALBUQUERQUE, NEW MEXICO 87199 (505) 345-2010		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: TRAFFIC SIGNAL CONTROLLER CABINET & PEDESTAL FOUNDATION DETAILS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	NO. / DAY / YR.	NO. / DAY / YR.
NOV 19 1996			
DESIGN REVIEW COMMITTEE		DATE	DATE
		8/96	8/96
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
542881	C12	14	14

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE	THE STATION IS A 3-1/4" ALUMINUM CAP RIVETED TO A PIPE PROTRUDING 0.1' ABOVE THE GROUND AND STAMPED	CONTRACTOR	NO.
			PCS 4-B13.1996, LOCATED NEAR THE INTERSECTION ON	WORKED BY	DATE
			ARROW AVENUE AND BRYAN AVENUE, N.W.	INSPECTOR'S	DATE
				FIELD	DATE
				VERIFICATION BY	DATE
				LOCATED BY	DATE
				CORRECTED BY	DATE
				MICRO-FILM INFORMATION	DATE
				RECORDED BY	DATE
				NO.	NO.

