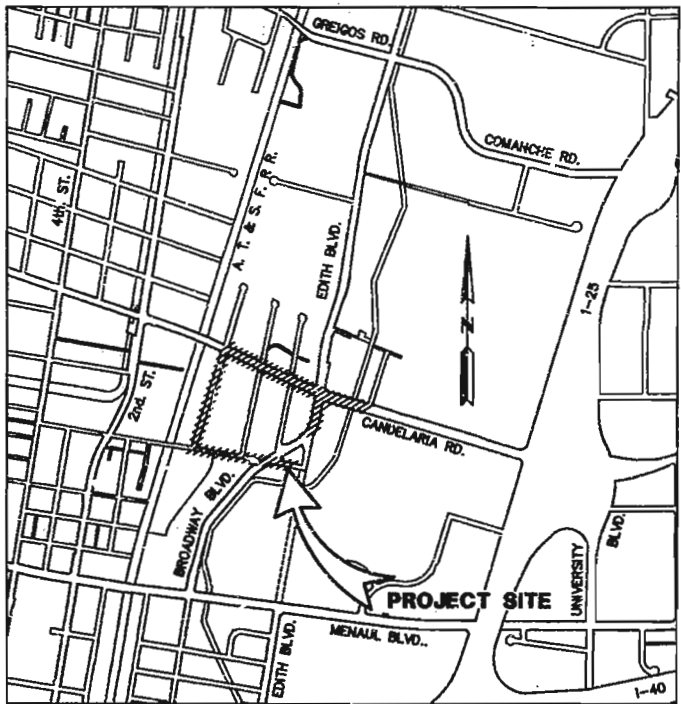


COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS

INDEX

DESCRIPTION	SHEET NO.
TITLE SHEET & INDEX	1
LEGEND	1A
LOCATION MAP	1B
GENERAL NOTES	1C
SURVEY CONTROL	1D
STORM DRAIN PLAN & PROFILE	
COMMERCIAL STREET NE.	2-4
CANDELARIA ROAD NE.	5-9
BROADWAY BOULEVARD NE.	10,11
CLAREMONT AVENUE NE.	12-14
FRANCISCAN STREET NE.	15
CLAREMONT DETENTION BASIN & REMOVALS	16,16A
STRUCTURE DETAILS	
ENERGY DISSIPATER	17-20
MISCELLANEOUS DETAILS & PAVEMENT SECTIONS	21
WATER SHUT-OFF PLAN	22
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS	23
TYPICAL TRAFFIC CONTROL AND SIGNING EXAMPLES	24
TRAFFIC GENERAL NOTES & TRAFFIC SIGNAL DETAILS	25
TRAFFIC CONTROL PLANS	26-39



LOCATION MAP

SCALE: 1"=2000'
ZONE ATLAS MAP No. G-14, 15, H-14, 15

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
[Signature]
DATE 4/1/99

CITY OF ALBUQUERQUE
NEW MEXICO



SET NUMBER

RECORD DRAWING

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE 87-778 NEW MEXICO
8500 MENAUL BLVD., NE.
SUITE A-440
ALBUQUERQUE, NEW MEXICO 87112
TELEPHONE 505 275-7500
FAX 505 275-0748

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEER'S STAMP & SIGNATURE		APPROVALS		ENGINEER	DATE	*****	
		DRC Chairman	<i>[Signature]</i>	7-28-98	APPROVED FOR CONSTRUCTION <i>[Signature]</i> City Engineer Date 7/29/98		
		Transportation	<i>[Signature]</i>	7-28-98			
		Water/Wastewater	<i>[Signature]</i>	8/17/98			
		Hydrology	<i>[Signature]</i>	8/23/98			
		Parks	<i>[Signature]</i>	8-15-98			
City Project No.		4271.92		Sheet 1 of 39			

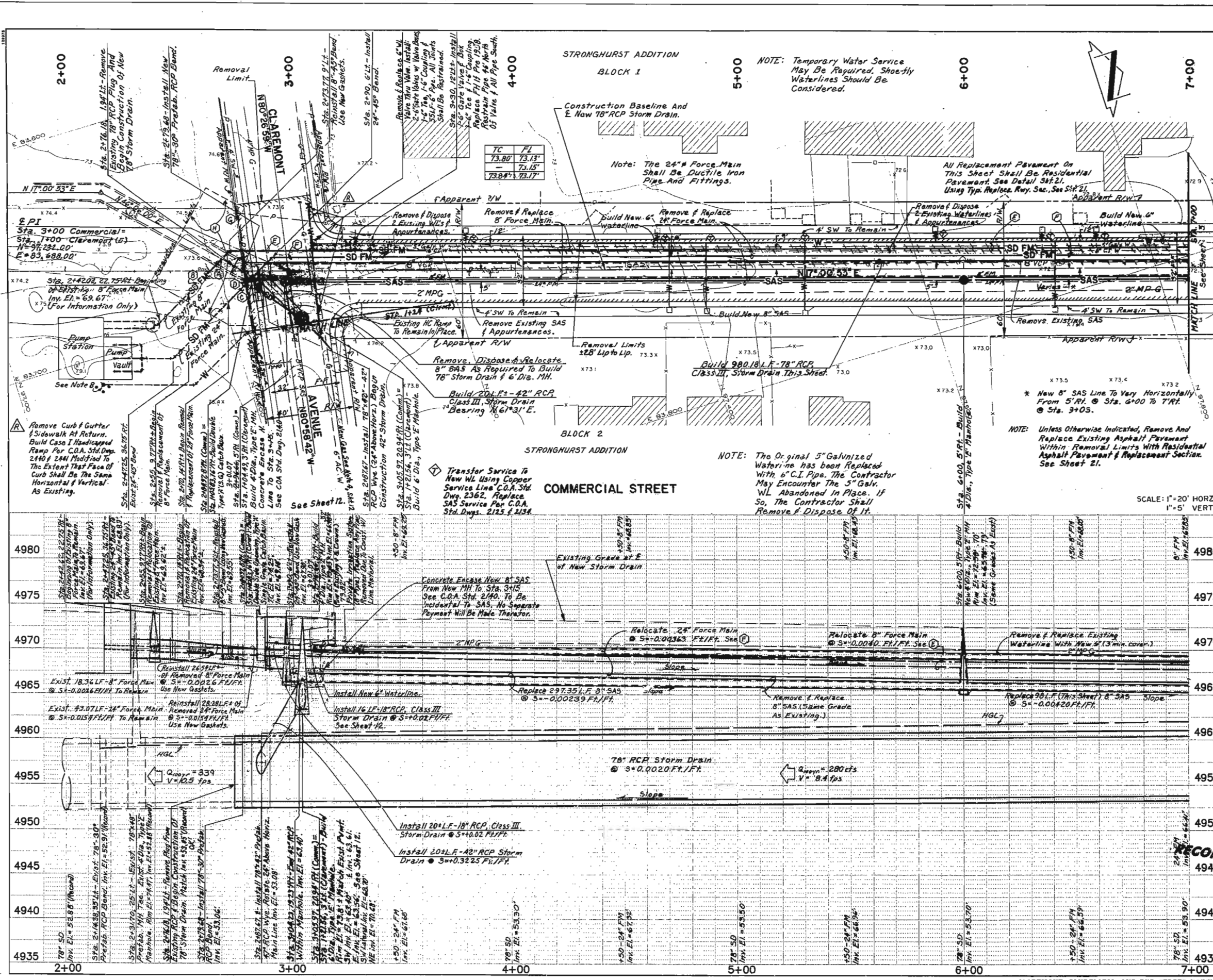
LEGEND	PROPOSED	EXISTING
BUILDING		
WIRE MESH, CHAIN LINK FENCE		
ROCK OR BLOCK WALL		
POST		
SIGN		
TREE		
FLOW LINE OF DITCH		
SIDE SLOPES OF DITCH		
RAILROAD TRACKS		
CURB & GUTTER		
LAYDOWN CURB, DRIVEPAD		
SIDEWALK		
WHEEL CHAIR RAMP		
LIMITS OF REMOVAL		
DIRT ROAD		
CONCRETE IN PLAN		
EARTH		
CONTOURS		
TELEPHONE BOX		
UTILITY POLE		
UTILITY POLE w/GUY WIRE		
STREET LIGHT, LUMINAIRE		
FIRE HYDRANT		
WATER VALVE		
BUTTERFLY VALVE		
AIR RELIEF VALVE		
WATER METER		

LEGEND	PROPOSED	EXISTING
WATER SERVICE CONNECTION		
SANITARY SEWER MANHOLE		
STORM DRAIN MANHOLE		
TELEPHONE MANHOLE		
CATCH BASIN		
WATER LINE		
SANITARY SEWER LINE		
STORM DRAIN LINE		
GAS LINE		
UNDERGROUND POWER LINES		
ABOVE GROUND PIPE OR POWER LINES		
UNDERGROUND TELEPHONE LINES		
OVERHEAD TELEPHONE LINES		
CABLE TV LINES		
SURVEY, CONSTRUCTION CENTERLINE		
CITY MONUMENT		
BENCH MARK		
R/W LINE, PROPERTY LINE		
EASEMENT		
FINISHED FLOOR ELEVATION		
SPOT ELEVATION		
CONTROL POINT, P.I.		
SECTION CORNERS		
CONDUIT		
TRAFFIC SIGNAL CONDUIT		
PEDESTAL POLE BASE		
PEDESTAL POLE w/SIGNAL		
MASTARM		
UTILITY REMOVAL		

//////////

RECORD DRAWING

AS BUILT INFORMATION CONTRACTOR: Condore Const. Co. DESIGNED BY: Walter Survey Co. 3/84-86 FIELD NOTES BY: H. T. 10/80 CHECKED BY: H. T. 10/80 DATE: 10/80 MICRO-FILM INFORMATION RECORDED BY: DATE: 10/80 RECORDED BY: DATE: 10/80		BENCH MARKS STA. NM47-11 NM47-11 POST FLUSH WITH THE GROUND LOCATED IN THE MEDIAN OF THE 3200 BLOCK OF SECOND STREET, NW. APPROXIMATELY 400 FEET SOUTH OF MILDRED AVE. ELEV. 4985.533	
SURVEY INFORMATION FIELD NOTES NO. 1 BY DATE NO. 2 BY DATE NO. 3 BY DATE NO. 4 BY DATE NO. 5 BY DATE NO. 6 BY DATE NO. 7 BY DATE		ENGINEER'S SEAL 	
REVISIONS NO. 1 DATE BY REMARKS NO. 2 DATE BY REMARKS NO. 3 DATE BY REMARKS NO. 4 DATE BY REMARKS NO. 5 DATE BY REMARKS NO. 6 DATE BY REMARKS NO. 7 DATE BY REMARKS		DESIGN DESIGNED BY: RL DATE: DEC. 1997 DRAWN BY: RL DATE: DEC. 1997 CHECKED BY: RL DATE: DEC. 1997	
ANDREWS, ASBURY & ROBERT, INC. ALBUQUERQUE 97-776 NEW MEXICO 8500 MENAUL BLVD. NE. SUITE A-440 ALBUQUERQUE, NEW MEXICO 87112 TELEPHONE 505 275-7500 FAX 505 275-0748			
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS LEGEND			
Design Review Committee JUL 26 1998 DESIGN REVIEW COMMITTEE		City Engineer JUL 29 1998 CITY ENGINEER	
City Project No. 4271.92		Zone Map No. G-15,H-15	
Sheet 1A of 39			



NOTES:

- On Commercial St., remove asphalt pavement full width from lip of gutter to lip of gutter. No curb and gutter or sidewalk shall be removed. Installation of storm drain trunk line shall require the use of a trench box and no shoring shall be used. The trench shall be no deeper than 1.5 ft. horizontal to 1 ft. vertical or shoring in accordance with OSHA regulations.
- All existing sanitary sewer and water service shall be transferred to new lines. Payment for this work will be made under appropriate bid items for service line work.
- Any curb and gutter and sidewalk not called for removal and replacement, damaged by the Contractor shall be replaced at the Contractor's own expense.
- Street to be repaved full width from lip of gutter to lip of gutter using paving section shown on Sheet 21 after installation of all utilities and service line transfers.
- Contractor shall coordinate his work with the Public Service Co. of New Mexico (PSNM). Gas line in this portion of Commercial St. shall remain in place during construction. In the event it becomes necessary to support or protect the existing gas line, this work shall be performed by Contractor in accordance with instructions from PSNM. No direct payment will be made for support of existing private or public utilities. PSNM shall be contacted before excavation begins in this area.
- Existing 8" sanitary sewer line to be removed and replaced at the same vertical location as existing. The Contractor to determine exact vertical location of existing SAS line prior to removal. The horizontal location of the new 8" SAS line shall be as shown in plan. The 4" SAS service lines and appurtenances in Commercial St. R/W shall be removed and replaced using new materials.
- The new waterline shall be installed with a minimum of 3' of cover at the horizontal location shown in plan.
- Remove and dispose of existing water service lines & old style meter bases on this street. Replace per C.O.A. Std. Dwg. 2362 & 2366.
- Contractor MUST verify the elevation of the SAS at Sta. 15+00 prior to beginning construction of storm drain in Commercial St. The clearance of the planned storm drain & the existing SAS must be at least 8 inches. If not, contact the Engineer immediately!
- The grade of the replacement pavement in the intersection of Commercial St. and Claremont Ave. to be modified from existing to a half crown on Claremont Ave.
- A Sta. 2+55, 9.77 ft. approx. to Sta. 2+61.77, 3' rt. remove 9.57 ft. - 8" Force Main. From Sta. 2+65, 8.77 ft. to Sta. 2+73.77, 9' rt. remove 24" 1/2" approx. of 8" Force Main, using new gaskets, S = -0.0026 ft./ft.
- B Sta. 2+61.77, 3' rt. remove 8"-45" band and install at Sta. 2+73.77, 9' rt. inv. = 68.55'.
- C Sta. 2+70, 14' rt. approx. to Sta. 2+78, 6' rt. remove 11.31 ft. - 24" Force Main and install, using new gaskets, 28.28 ft. approx. of 24" Force Main from Sta. 2+70, 16' rt. to Sta. 2+90, 6' rt. at S = -0.0154 ft./ft.
- D Sta. 2+78, 6' rt. remove 24"-45" band & install at Sta. 2+90, 6' left, inv. = 67.90'. Use new gaskets.
- E Sta. 2+61.77, 3' rt. to Sta. 7+00, 3' rt. remove 438.23 ft. of 8" FM. Reinstall 428.23 ft. of 8" FM. Sta. 2+73.77, 9' rt. to Sta. 7+00, 9' rt. at S = -0.0040 ft./ft., using new gaskets.
- F Sta. 2+78, 6' rt. to Sta. 7+00, 6' rt. remove 422 ft. of 24" FM. Reinstall 410 ft. of 24" FM from Sta. 2+90, 6' rt. to Sta. 7+00, 6' rt. at S = -0.00365 ft./ft., using new gaskets.
- G Remove and replace approx. 70 ft. of existing 8" conc. curb and gutter and sidewalk. Match remaining flow lines & string line to new inlet.
- H The Contractor shall coordinate his work with the City in this area. Landscaping & irrigation shall be removed as required for construction of the storm drain. Landscaping and irrigation shall be replaced or replaced per the City's direction. This work shall be paid for under Bid item No. 113 (Landscaping Allowance).

ENGINEER'S SEAL

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
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SUITE A-440
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TELEPHONE 505 275-7500
FAX 505 275-0748

REVISIONS

NO.	DATE	REMARKS	BY
1	DATE: April, 1997		
2	DATE: April, 1997		
3	DATE: April, 1997		

AS BUILT INFORMATION

STATION	DATE	BY
STA. 11M47-11		

SURVEY INFORMATION

NO.	DATE	BY
1		
2		
3		
4		
5		
6		
7		

DESIGN

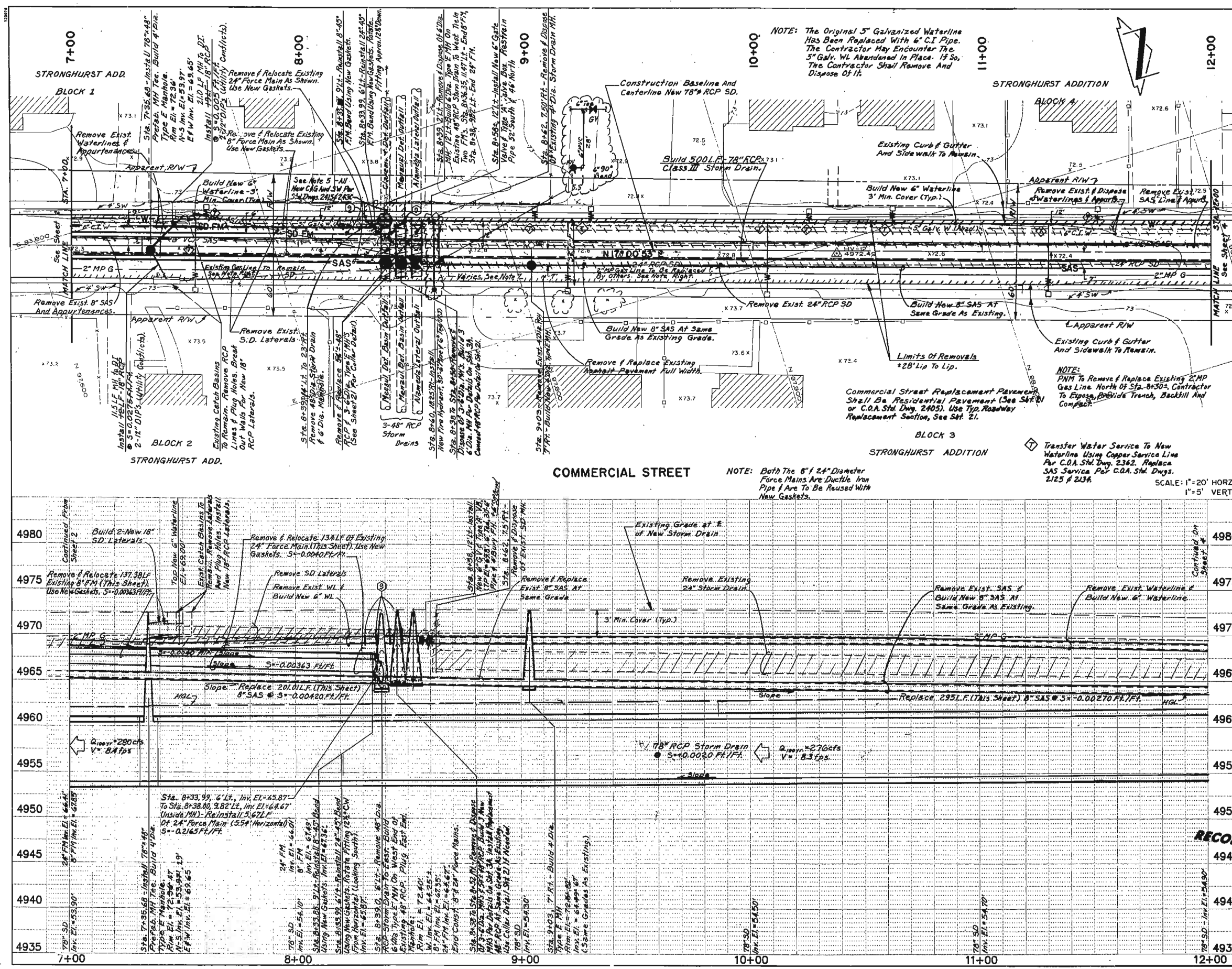
DESIGNED BY: RL
DRAWN BY: RL
CHECKED BY: RL

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP**

**TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS
STORM DRAIN PLAN & PROFILE
COMMERCIAL STREET**

Design Review Committee: [Signature]
CITY ENGINEER: [Signature]

City Project No. **4271.92** Zone Map No. **G-15,H-15** Sheet **2** of **39**



NOTES:

- Horizontal and vertical alignment of existing utilities shown on these plans are a compilation of record drawings and field measurements. Due to the shallow grades on the existing 8" SAS and the proposed 78" storm drain, Contractor MUST verify the elevation of the SAS at Sta. 10+00 prior to starting work on the storm drain in Commercial St. Report any discrepancy to the Engineer as soon as possible.
- Curb and gutter or sidewalk shall remain in place on Commercial St. Installation of the storm drain trunk line will require use of a trench box and side slopes no steeper than 1.5 ft. horizontal to 1 ft. vertical or shoring in accordance with OSHA regulations.
- Remove and dispose of existing water meter boxes on this sheet. Replace meter boxes per C.O.A. Std. Dwg. 2388.
- The new 8" SAS line shall uniformly vary horizontally from five feet (5') right of Centerline at 8+00 to seven feet (7') right of Centerline at Sta. 7+03.
- Sta. 8+30 to Sta. 8+50, 14.7' - Remove, dispose and replace concrete curb and gutter and sidewalk as needed for the construction of 8" dia. MH. Replace at existing grades.
- After the installation of the new storm drain and other utilities, replace all pavement removed from Commercial St. with Residential asphalt pavement (See Sheet 21). The Contractor shall coordinate the field determination of existing grades prior to pavement removal with the City Project Manager.
- New 8" SAS line to vary horizontally from Sta. 8+00, 5.00' right to Sta. 8+03, 7.00' right of Centerline of Construction.
- Contractor shall coordinate his work with the Public Service Co. of New Mexico (PSNM). The gas line South of Sta. 8+50 approx. shall remain in place during construction. In the event it becomes necessary to support or protect the existing gas line, this work shall be performed by Contractor in accordance with instructions from PSNM. No direct payment will be made for support of existing private or public utilities. PSNM shall be contacted before excavation begins in this area. North of Sta. 8+50 approx. PSNM will remove and replace the gas line. Contractor shall expose the pipe, provide trench, backfill and compaction. PSNM to remove old pipe, install new main and service connections.
- Route the new 6" waterline around the storm drain manhole and over the relocated force mains. Details:
 - 6"-45' Bend, Sta. 8+31, 12' LT, TP 69.60'
 - 6"-45' Bend, Sta. 8+35, 7' LT, TP 69.83'
 - 6"-45' Bend, Sta. 8+42, 7' LT, TP 69.86'
 - 6"-45' Bend, Sta. 8+47, 12' LT, TP 69.89'Restrict joint lengths. The restrict lengths of the valve at Sta. 8+58 covers all four bands. Not Necessary.

AS BUILT INFORMATION

CONTRACTOR	DATE	BY	DATE
Condon Const. Co.	1995		
Checked by: [Signature]			

BENCH MARKS

STA.	MARK	DATE	BY
1147-11	INCH BRASS TABLET SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND LOCATED IN THE MEDIAN OF THE 3200 BLOCK OF SECOND STREET, N.W. APPROXIMATELY 400 FEET SOUTH OF MADRID AVE. ELEV. 4968.533		

ENGINEER'S SEAL

ANDREWS, ASSURRY & ROBERT, INC.
ALBUQUERQUE 87-778 NEW MEXICO

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TELEPHONE 505 275-7500
FAX 505 275-0748

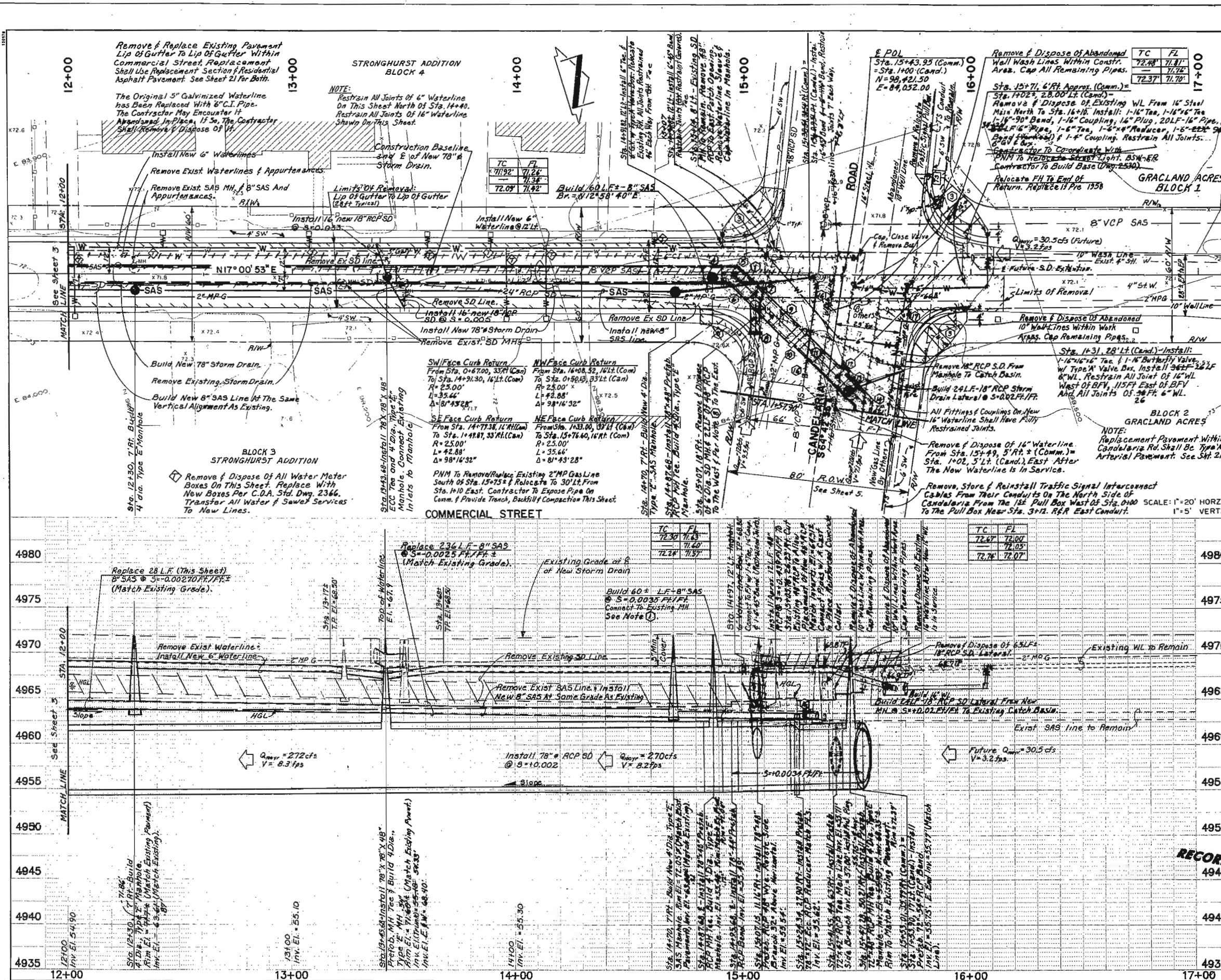
RECORD DRAWING

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS
STORM DRAIN PLAN & PROFILE
COMMERCIAL STREET

DESIGN	REVIEW	DATE	BY
DESIGNED BY: [Signature]	DESIGNED BY: [Signature]	DATE: April, 1997	DATE: April, 1997
CHECKED BY: [Signature]	CHECKED BY: [Signature]	DATE: April, 1997	DATE: April, 1997

City Project No. 4271.92 Zone Map No. G-15,H-15 Sheet 3 of 39



NOTES:

- ① Horizontal and vertical alignment of existing utilities shows art a co-junction of record drawings and field measurements. Due to the shallow grades of the S^W SAS and the proposed 72" storm drain, the Contractor MUST verify the elevation of the SAS at Sta. 15+00 prior to starting work in Commercial St. Report any discrepancy to the Engineer as soon as possible.
- ② Curb and gutter or sidewalk shall remain in place this sheet. Installation of the trunk line will require use of a trench box and side slopes no steeper than 1.5 ft horizontal to 1 ft vertical or steeper in accordance with OSHA regulations.
- ③ Remove and dispose of existing curb and gutter and sidewalk at return. Build Concrete Ramped Ramp (C.O.A. Sta. 14+240 to 2441). Contractor shall be responsible for matching existing curbs and gutters and sidewalks, and for insuring proper drainage in the streets.
- ④ Sta. 14+67.68 - install new prefab. 78"x48" RCP MH tee. Build 4" dia, Type E MH. Rim to match exist. point. inv. sl. = 55.48'.
- ⑤ Sta. 14+85.88 (Comm.)=Sta. 1+08.95, 47.77 R/ (Cond.) - install 78" 44' prefab. RCP band. inv. sl. = 55.48', NE inv. sl. = 55.50'.
- ⑥ install 36" LF - 78" RCP at S = +0.0034 ft./ft. (R = N 61°14'03" E).
- ⑦ Sta. 15+07.15, 71.66' ^{116' 10" 1/2} Sph. (Comm.) - install 78"x48" - 48" prefab. RCP wye. S = +0.0034, (N 61°14'03" E). Rotate 32° above horizontal.
- ⑧ Build 12 ft. of 48" RCP Storm Drain, S = +0.430 17' R/ (R = S 75°36'36" E). Cut existing 48" RCP. Sta. 15+05.78, 26.23' R/ (Comm.) = Sta. 1+31.45, 34' R/ (Cond.) for placement of RCP. Match invert. Connect pipe with a pour in place reinforced concrete caulk (See Sheet 2).
- ⑨ install 36" LF - 78" RCP at S = +0.0034 ft./ft. (R = N 61°14'03" E).
- ⑩ Sta. 15+24.34, 27.80' R/ (Comm.) = Sta. 1+30.43, 15.36' R/ (Cond.) - install prefab. 78"x72" sec. RCP reducer at S = +0.0034 ft./ft. (R = N 61°14'03" E). Match flow lines.
- ⑪ install 36" LF - 72" RCP at S = +0.0034 ft./ft. (R = N 61°14'03" E).
- ⑫ Sta. 15+41.55, 44.63' R/ (Comm.) = Sta. 1+44.53, 3.96' L/ (Cond.) install new 72"x42" prefab. RCP tee. S = +0.0034 ft./ft. (R = N 61°14'03" E). Rotate side branch to inv. sl. = 57.00'. install prefab. 42" RCP plug.
- ⑬ Sta. 15+47.28, 50.21' R/ (Comm.) = Sta. 1+49.21, 10.32' L/ (Cond.) - install 78"x48" prefab. RCP MH tee. Build 4" dia, Type E MH. Rim to match exist. point. inv. sl. = 55.73'.
- ⑭ Sta. 15+53.01, 55.79' R/ (Comm.) = Sta. 1+53.90, 17' L/ (Cond.) - install 72" - 54" prefab. RCP band. inv. sl. = 55.75'.
- ⑮ Sta. 15+57.58, 43.09 R/ (Comm.) = Sta. 1+45, 10' R/ (Cond.) to Sta. 15+33.41, 5' R/ (S = 1+04.49, 10' R/ (Cond.) at existing MH; Remove and dispose of 42" LF of 72" RCP SAS to allow construction of 72" RCP storm drain. Replace at original grade with 6" PVC SAS pipe after the storm drain is in place. Connect to existing 6" WVP w/ rapid coupling. Match flow lines. Rehabilitate MH floor as necessary to accommodate the replacement lines.
- ⑯ In addition to Note 8 Sheet 3, PNM will relocate the gas main in Candalaria Rd. to two feet (2') from the lip of the North curb. The Contractor shall provide trench, back fill and compaction. After install the main and make all connections.
- ⑰ Suspend 16" distribution waterline as required during construction of storm drain. No direct payment will be made for support of existing private or public utilities.
- ⑱ After the installation of the storm drain and sidewalk, replace all pavement removed within Candalaria Rd. with Type A Articial asphalt pavement (See Sht. 21). Replace pavement within Commercial St. with reslaid pavement (See Sht. 21). Contractor shall be responsible for obtaining "W" from the City Proj. Manager, field determination of existing grades prior to pavement removal.

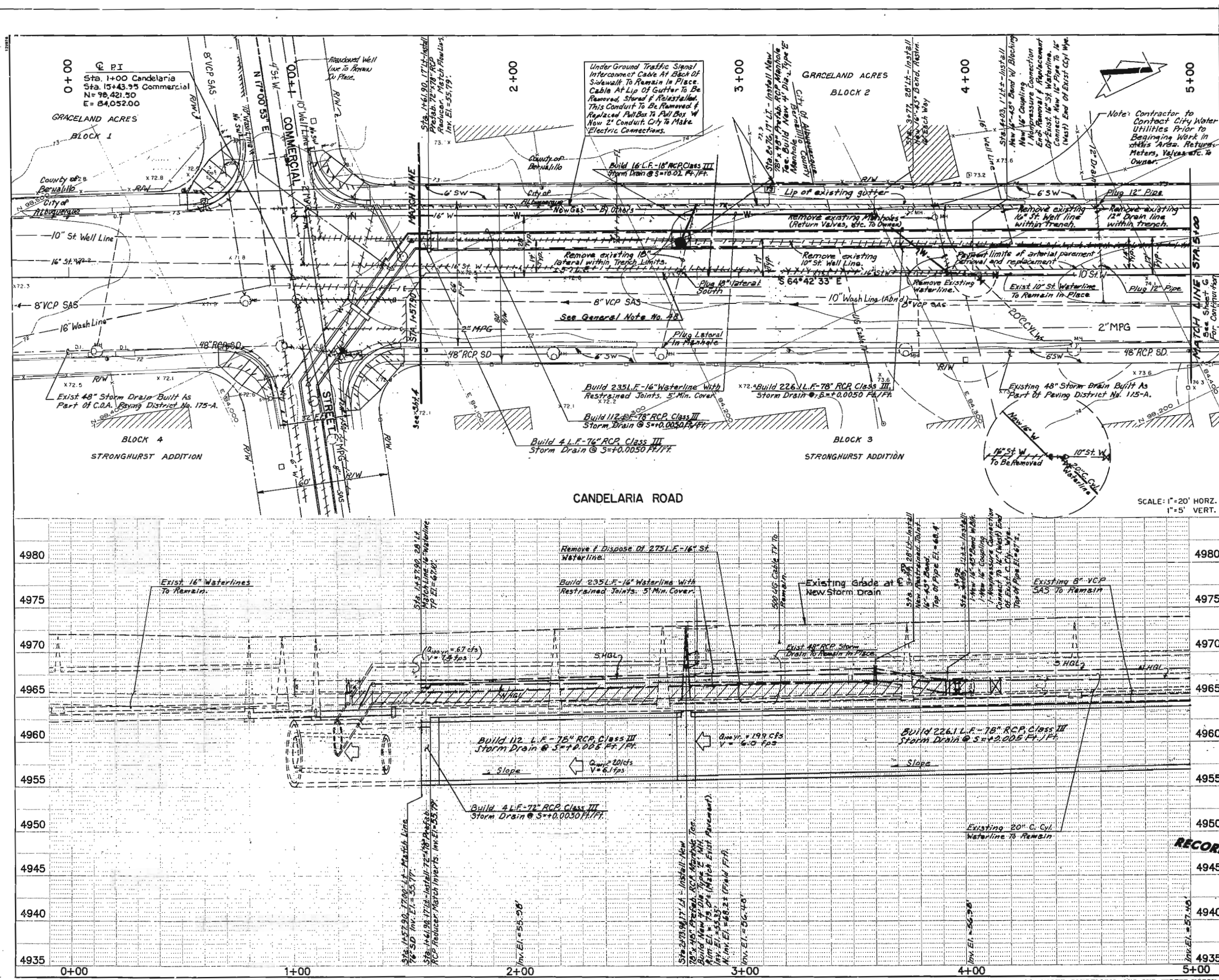
ANDREWS, ASSURRY & ROBERT, INC.
—CONSULTING ENGINEERS—
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8500 MENAUL BLVD., NE.
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TELEPHONE 505 275-7500
FAX 505 275-0748

D 5	DRAWING	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP
		TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS STORM DRAIN PLAN & PROFILE COMMERCIAL STREET

APPROVAL J.M. 26/03/88 DESIGN REVIEW COMMITTEE	City Engineer Approval  CITY ENGINEER	No. / DAY / YR. 	No. / DAY / YR.
	Coast Design Updater 	 	

City Project No.	4271.92	Zone Map No.	G-15.H-15	Sheet	4	Of	39
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NOTES:

1. This project is subject to the terms and conditions of the Master Utility Easement and Right-of-Way Agreement entered into between the County of Bernalillo and the City of Albuquerque, effective date: August 20, 1990.

2. After the installation of the new storm drains and other utilities, replace all pavement removed within Candelaria Road with Arterial, Type "A" asphalt pavement (See Sheet 21). The Contractor shall be responsible for coordinating with the City Project Manager, the field determination of existing grades prior to pavement removal.

3. PHM will relocate the gas main within Candelaria Rd. to two feet (2') from the tip of the North curb. The Contractor shall provide trench, back fill and compaction. PHM will install the main and make all connections.

4. Remove and Replace curb and gutter and sidewalk as needed. Match existing horiz. & vert. per C.O.A. Std. Depts. 2415 & 2430.

AS BUILT INFORMATION

CONTRACTOR: Condone Const. Co.
DESIGNED BY: Walker Surveying & Mapping, Inc.
CHECKED BY: [Signature]
DATE: 04/04/97

ENGINEER'S SEAL

ANDREWS, ASSURRY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE 87-776 NEW MEXICO

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FAX 505 275-0748

RECORD DRAWING

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS**
STORM DRAIN PLAN & PROFILE
CANDELARIA ROAD

DESIGNED BY: RL
DRAWN BY: RL
CHECKED BY: RL

DATE: April, 1997
DATE: April, 1997
DATE: April, 1997

REVISIONS

NO.	DATE	REMARKS	BY
1			
2			
3			
4			
5			
6			
7			

FIELD NOTES

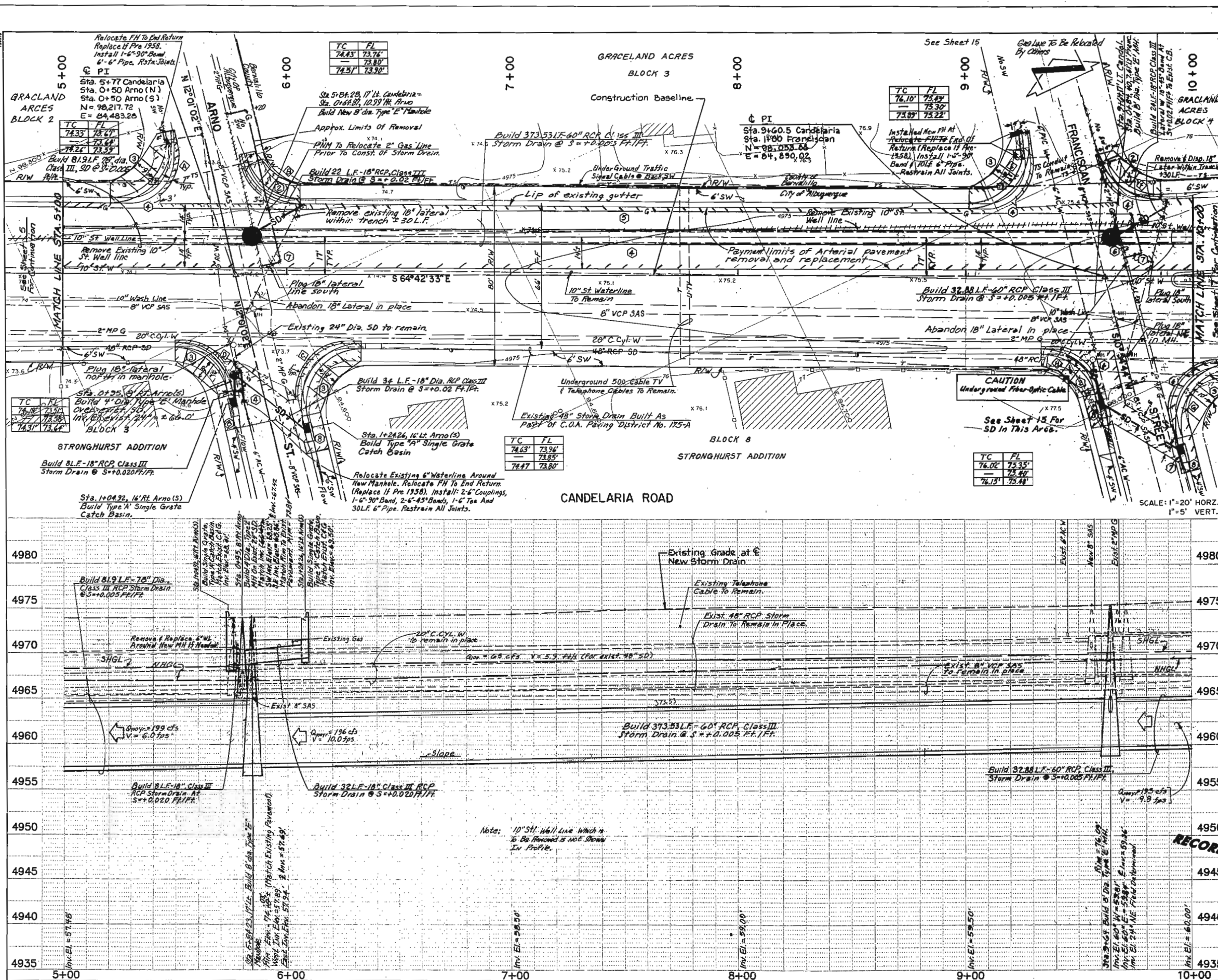
NO.	DATE	BY
1		
2		
3		
4		
5		
6		
7		

SCALE: 1" = 20' HORIZ.
1" = 5' VERT.

CLAREMONT, CANDELARIA, AND 2ND STREET NORTH STORM DRAIN IMPROVEMENTS

City Project No. **4271.92** Zone Map No. **G-15,H-15**

Sheet **5** of **39**



NOTES:

- This project is subject to the terms and conditions of the Master Utility Easement and Right-of-Way Agreement entered into between the County of Bernalillo and the City of Albuquerque, effective date: August 20, 1990.
- Remove and dispose of existing curb and gutter and sidewalk at return. Build Case I Handicapped Ramp (C.O.A. Std. Dwg. 2240 and 2441). Contractor shall be responsible for matching existing curbs and gutters and sidewalks, and for insuring proper drainage in the streets.
- Remove and dispose of existing curb and gutter and sidewalk at return. Build Case II Handicapped Ramp (C.O.A. Std. Dwg. 2240 and 2441). Contractor shall be responsible for matching existing curbs and gutters and sidewalks, and for insuring proper drainage in the streets.
- After the installation of the new storm drains and other utilities, replace all removed pavement within Candelaria Road with Type A' Aerial asphalt pavement. (See Sht. 21). Replace pavement on Armo Street with residential asphalt pavement (See Sht. 21). The Contractor shall be responsible for coordinating with the City Project Manager, the field determination of existing grades prior to pavement removal.
- PNM will relocate the gas main within Candelaria Rd. to two feet (2') from the lip of the North curb. The Contractor shall provide trench, back fill and compaction. PNM will install the main and make all connections.
- The Contractor shall coordinate with Jones Interchange, Inc. to relocate the underground fiber-optic cable at the lip of East gutter of Franciscan St., around the proposed catch basin and manhole. Contact Robert Morin at (505) 761-6221.
- The Contractor shall coordinate with PNM to relocate the existing gas line around the proposed manhole.
- Remove and Replace curb and gutter and sidewalk as needed. Match existing horiz. & vert. per C.O.A. Std. Dwg. 2415 & 2430.

NE CORNER

TC	FL
76.10	75.47
76.10	75.30
75.89	75.22

SE CORNER

TC	FL
76.02	75.35
76.02	75.40
76.15	75.44

FACE OF CURB RETURN DATA

STATION	TO	FROM	DELTA
STA. 1+19.26, 16' LT. (ARNO N.)	STA. 5+21.19, 33' LT. (CANDEL.)	R = 25.00' L = 45.08' DELTA = 103°16'25"	
STA. 6+05.44, 33' LT. (CANDEL.)	STA. 0+99.92, 16' RT. (ARNO N.)	R = 25.00' L = 33.48' DELTA = 76°43'35"	
STA. 1+19.26, 16' LT. (ARNO S.)	STA. 6+32.81, 33' RT. (CANDEL.)	R = 25.00' L = 45.00' DELTA = 103°16'25"	
STA. 5+48.56, 33' RT. (CANDEL.)	STA. 0+99.92, 16' RT. (ARNO S.)	R = 25.00' L = 33.48' DELTA = 76°43'35"	
STA. 0+30.00, 14.50' RT. (FRAN.)	STA. 9+04.85, 33' LT. (CANDEL.)	R = 25.00' L = 48.54' DELTA = 104°22'43"	
STA. 3+89.99, 36' LT. (CANDEL.)	STA. 0+47.96, 17.50' LT. (FRAN.)	R = 25.00' L = 34.25' DELTA = 78°29'02"	
STA. 1+77.75, 15.50' LT. (FRAN.)	STA. 10+20.82, 40.31' RT. (CANDEL.)	R = 25.00' L = 47.12' DELTA = 108°00'09"	
STA. 9+32.53, 33' RT. (CANDEL.)	STA. 1+49.24, 16.50' RT. (FRAN.)	R = 25.00' L = 33.00' DELTA = 75°37'17"	

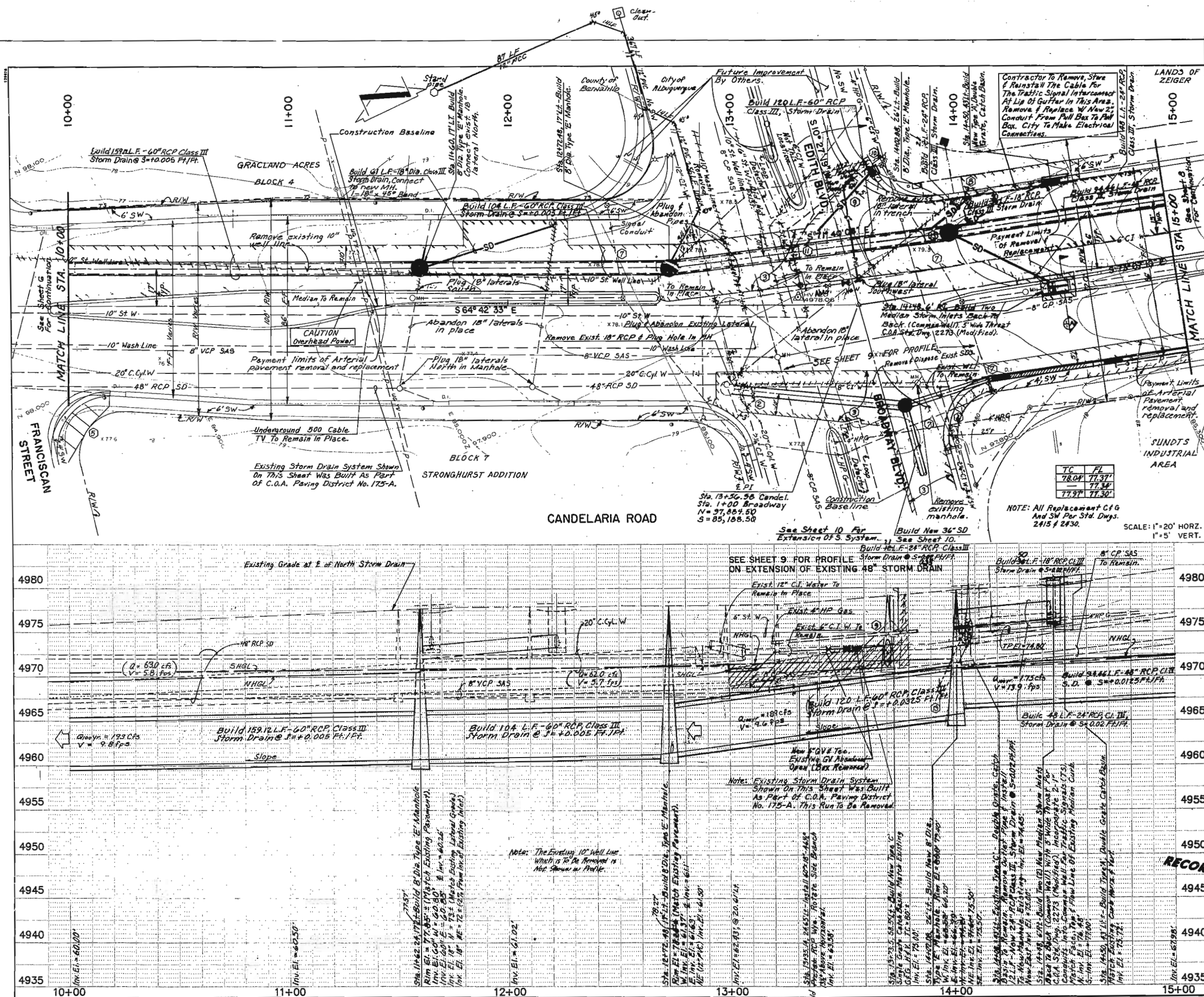
ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE, NEW MEXICO 87102
8500 MENAUL BLVD., NE
SUITE A-440
ALBUQUERQUE, NEW MEXICO 87112
TELEPHONE 505 275-7500
FAX 505 275-0748

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

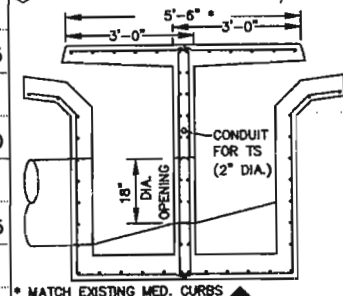
TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS
STORM DRAIN PLAN & PROFILE
CANDELARIA ROAD

RECORD DRAWING

City Project No. **4271.92** Zone Map No. **G-15-H-15** Sheet **6** of **39**



- NOTES:
- This project is subject to the terms and conditions of the Master Utility Easement and Right-of-Way Agreement entered into between the County of Bernalillo and the City of Albuquerque, effective date: August 20, 1990.
 - Existing waterlines, inclusive of the 20" concrete cylinder waterline are to remain in place. Any pipes damaged or removed by the Contractor shall be replaced with like materials at the Contractor's expense and no separate payment will be made therefor.
 - After the installation of the new storm drains and other utilities, replace all pavement removed within Candelaria Road and Broadway Boulevard with Arterial, Type A asphalt pavement (See Detail on Sheet 21). The Contractor shall be responsible for coordinating with the City Project Manager, the field determination of existing grades prior to pavement removal.
 - Remove and dispose of existing curb and gutter and sidewalk at return. Build Case I Handicapped Ramp (C.O.A. Std. Dwg. 2240 and 2441). Contractor shall be responsible for matching existing curbs and gutters and sidewalks and for insuring proper drainage in the streets.
 - Remove and dispose of existing curb and gutter and sidewalk at return. Build Case II Handicapped Ramp (C.O.A. Std. Dwg. 2240 and 2441). Contractor shall be responsible for matching existing curbs and gutters and sidewalks, and for insuring proper drainage in the streets.
 - The Contractor shall be responsible for all replacement of curb and gutter and sidewalk in the same horizontal and vertical locations as existing.
 - The Contractor shall furnish and install new 3" PVC traffic signal conduits and new pull boxes as shown on Sheet 10. He shall furnish and install all electrical conductors per the table on Sheet 25. The City shall make all electrical connections. Detector loops removed with or damaged by asphalt removal shall be replaced with like materials and workmanship. The Contractor shall remove and reinstall the wires in the traffic signal interconnect within the pavement, from pull box to pull box; and replace the conduit with new 2" PVC conduit from pull box to pull box. All electrical connections shall be made by the City.
 - The Contractor shall be paid for all work described in this note under Bid Items 29 through 38.
 - Sta. 14+13, 45' Lt. - the Contractor shall coordinate with the Public Service Co. of New Mexico (PSNM) to remove and replace the street light pole and luminary. The Contractor shall remove, dispose of and replace the base per C.O.A. Std. Dwg. 2530.
 - Build 40 LF 18" RCP, Class III, Storm Drain At S = +0.2165 FL/FL.
 - Sta. 13+73.5, 58.5' Lt. - Build Type 'C', Single Grate Catch Basin. Match Existing Curb & Gutter Horiz. & Vert. Inv El = 75.00'.
 - Sta. 13+35.14, 24.65' Lt. - Install 60"x18" 48" deep RCP Wye. Rotate Side Branch 10' Above Horiz. Inv El = 63.58'.
 - Remove and Replace curb and gutter and sidewalk as needed. Match existing horiz. & vert. per C.O.A. Std. Dwg. 2415 & 2430.
 - Installed 60"x18" 48" deep RCP Wye. Note 11.



ANDREWS, ASSURRY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE, NEW MEXICO 87176

8500 MENAUL BLVD., NE.
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ALBUQUERQUE, NEW MEXICO 87112
TELEPHONE 505 275-7500
FAX 505 275-0748

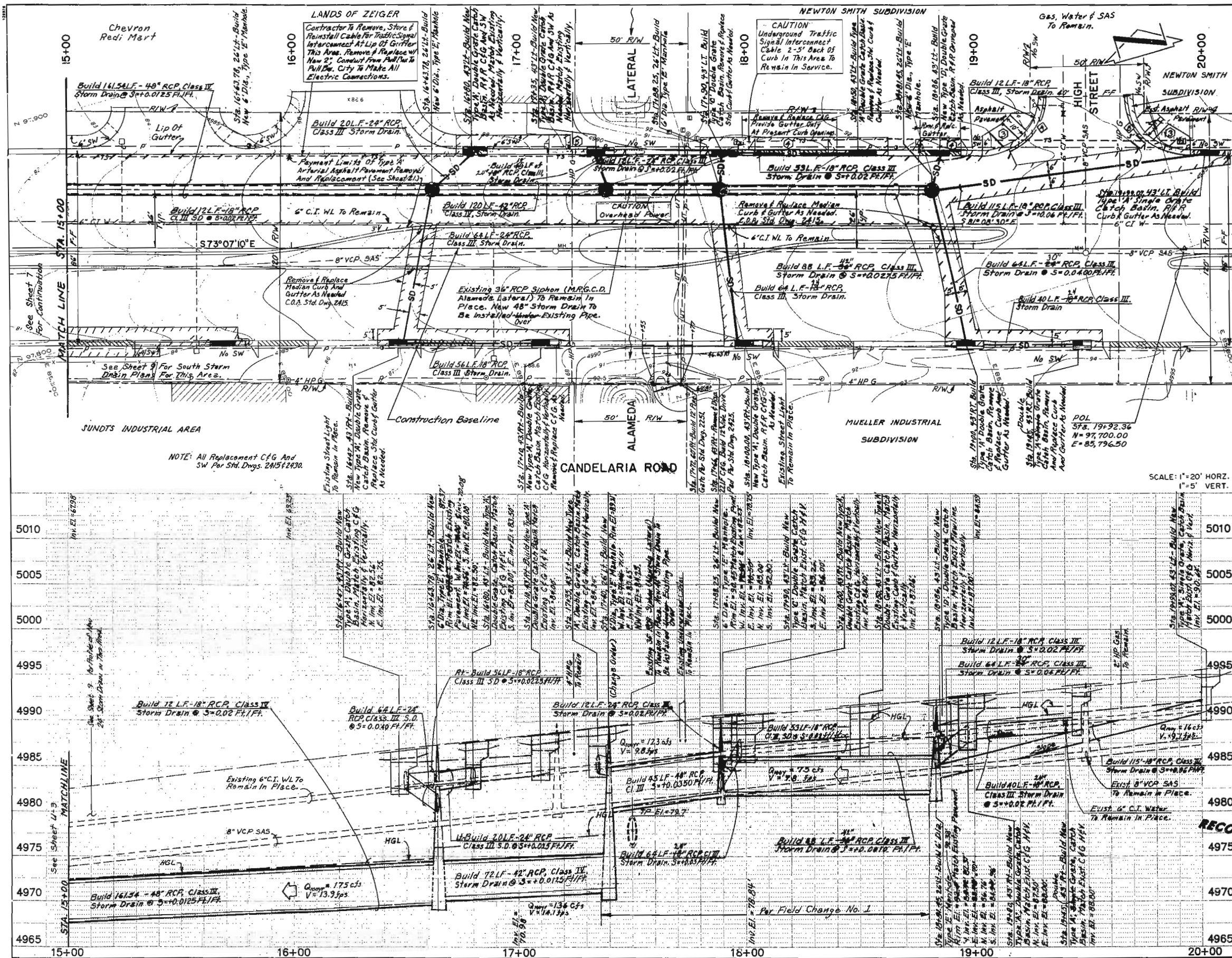
RECORD DRAWING

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS
STORM DRAIN PLAN & PROFILE
CANDELARIA ROAD

NO.	DATE	REVISIONS	BY
1	APR 1997	DESIGN	AL
2	APR 1997	DESIGN	AL
3	APR 1997	DESIGN	AL
4	APR 1997	DESIGN	AL

City Project No. **4271.92** Zone Map No. **G-15.H-15** Sheet **7** of **39**



NOTES:

- The Contractor shall be responsible for all replacement of curb and gutter, sidewalks, drive pads and medians in the same horizontal and vertical locations as existing.
- After the installation of the new storm drain and other utilities, replace all pavement removed within Candelaria Road with Type A Arterial asphalt pavement (See Sheet 21). The Contractor shall be responsible for coordinating with the City Project Manager, the field determination of existing grades prior to pavement removal.
- Remove and dispose of existing curb and gutter and asphalt pavement at return. Build Case II Handicapped Ramp (C.O.A. Std. Dwg. 2440 and 2441). Contractor shall be responsible for matching existing curb and gutters, for replacing asphalt pavement, and for insuring proper drainage in the street.
- Remove and dispose of existing asphalt pavement as needed to build Storm Drain. Replace with like kind. Match existing grades, new inlets and replacement C & G.
- Sta. 17+22, 48' LT. - the Contractor shall coordinate with the Public Service Co. of New Mexico (P.S.C.N.M.) to remove and replace the street light pole and luminaire. The Contractor shall remove, dispose of and replace the base per C.O.A. Std. Dwg. 2530.
- Remove and Replace curb and gutter and sidewalk as needed. Match existing horiz. & vert. per C.O.A. Std. Dwg. 2415 & 2430.

FACE OF CURB RETURN DATA

STA. 19+04.06, 43.00' LT. TO STA. 19+29.06, 68.34' LT. R = 25.00' L = 36.93' DELTA = 89°12'42"

STA. 19+59.07, 67.66' LT. TO STA. 19+94.07, 43.00' LT. R = 25.00' L = 36.91' DELTA = 90°47'15"

SCALE: 1"=20' HORIZ. 1"=5' VERT.

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE, NEW MEXICO 87176

8500 MENAUL BLVD., NE.
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ALBUQUERQUE, NEW MEXICO 87112
TELEPHONE 505 275-7500
FAX 505 275-0748

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS**
STORM DRAIN PLAN & PROFILE
CANDELARIA ROAD

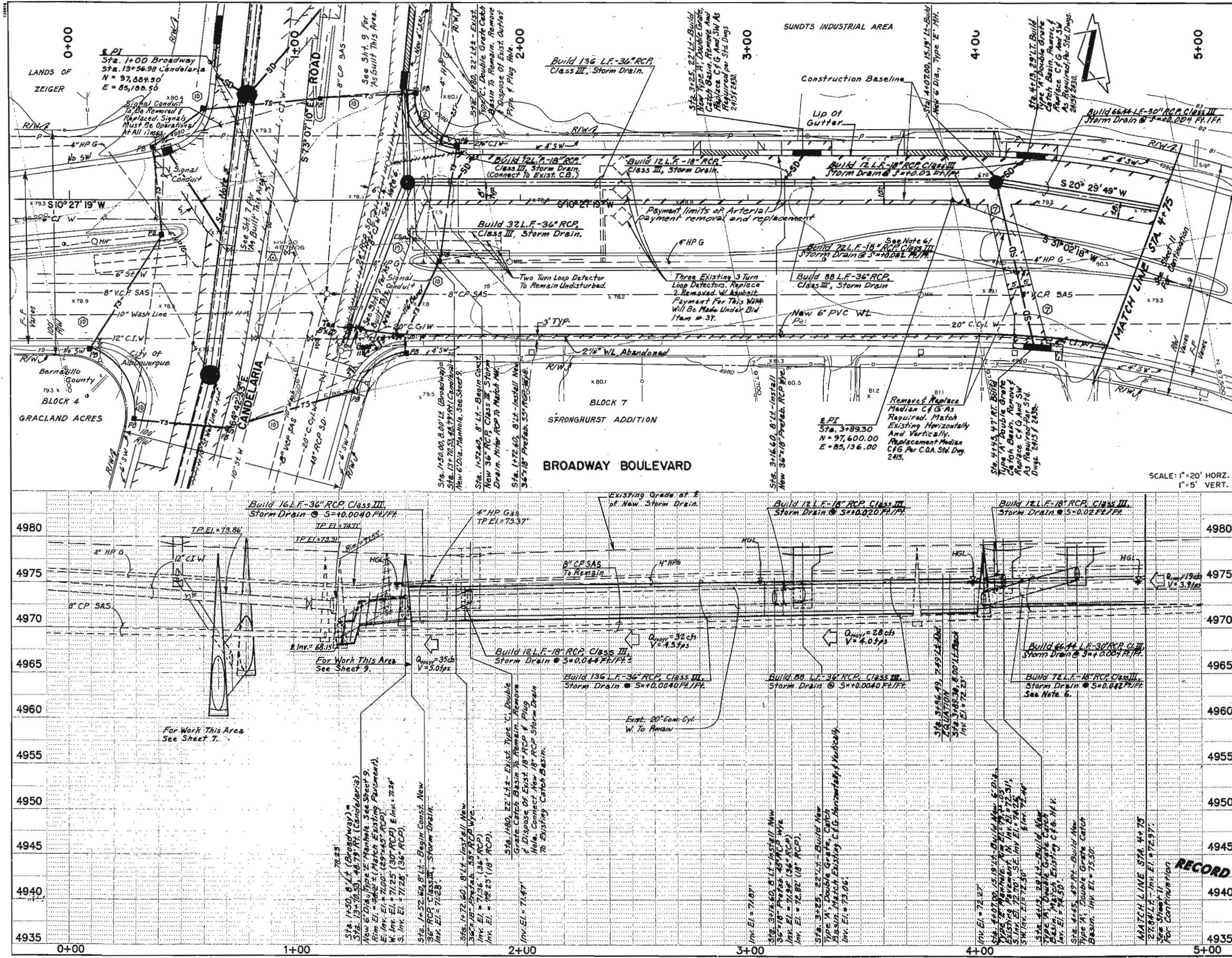
NO.	DATE	REVISIONS
1		DESIGN
2		
3		
4		
5		
6		
7		

DESIGNED BY: RL
DRAWN BY: RL
CHECKED BY: RL

DATE: April, 1997
DATE: April, 1997
DATE: April, 1997

City Project No. **4271.92** Zone Map No. **G-15,H-15**

Sheet **8** of **39**



NOTES:

- This project is subject to the terms and conditions of the Master Utility Easement and Right-of-Way Agreement entered into between the County of Bernalillo and the City of Albuquerque, effective date: August 20, 1990.
- This note reported from Sheets 7 & 9. Remove and dispose of existing curb and gutter and sidewalk at return. Build Case 1 Handicapped Ramp (C.O.A. Std. Dwg. 2240 and 2441). Contractor shall be responsible for matching existing curbs and gutters and sidewalks, and for insuring proper drainage in the streets.
- Note deleted.
- The Contractor shall be responsible for the replacement of curb in the same horizontal and vertical location as existing.
- See Sheet 7 for details of this storm drain system. This system is shown here for information purposes only.
- See Sheet 9 for details of this storm drain system. This system is shown here for information purposes only.
- The horizontal and vertical locations of the existing 4" HP line and the 20" CGL waterline are critical to the grade of the storm drain lateral. The Contractor shall verify the exact locations of these lines and report the Engineer for grade approval prior to beginning any work of this lateral.
- After the installation of the new storm drains and other utilities, replace all pavement removed within Candelaria Road and Broadway Boulevard with Type A Arterial asphalt pavement (See Sht. 21). The Contractor shall be responsible for coordinating with the City Project Manager, the field determination of existing grades prior to pavement removal.
- All curbs and gutters, median curbs and sidewalks removed due to storm drain construction shall be replaced at the same horizontal and vertical locations as existing.
- The Contractor shall furnish and install new 3" PVC traffic signal conduits and new pull boxes as shown on this Sheet. He shall furnish and install all electrical conduits per the table on Sheet 25. The City shall make all electrical connections. Detector loops removed with or damaged by asphalt removal shall be replaced with like materials and workmanship. The Contractor shall remove and reinstall the wires in the Traffic Signal Interconnect within the pavement, from pull box to pull box, and replace the conduit with new 2" PVC conduit from pull box to pull box. All electrical connections shall be made by the City. The Contractor shall be paid for all work described in this note under Bid Items 20 through 38.
- Remove and Replace curb and gutter and sidewalk as needed. Match existing horiz. & vert. per C.O.A. Std. Dwg. 2415 & 2430.

AS BUILT INFORMATION

CONTRACTOR: Condon Const. Co.

DESIGNED BY: R. L. Z. DATE: April, 1997

DRAWN BY: R. L. Z. DATE: April, 1997

CHECKED BY: R. L. Z. DATE: April, 1997

BENCH MARKS

STA. 4947-11

INCHES BRASS TABLET SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND LOCATED IN THE MEDIAN OF THE 3200 BLOCK OF SECOND STREET, NW. APPROXIMATELY 400 FEET SOUTH OF MILDRED AVE. ELEV. 4968.533

SURVEY INFORMATION

NO. 1

DATE

BY

ENGINEER'S SEAL

ANDREWS, ASBURY & ROBERT, INC.

ALBUQUERQUE 87-776 NEW MEXICO

8500 MENAUL BLVD., NE.

SUITE A-440

ALBUQUERQUE, NEW MEXICO 87112

TELEPHONE 505 275-7500

FAX 505 275-0748

CITY OF ALBUQUERQUE

PUBLIC WORKS DEPARTMENT

ENGINEERING GROUP

TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS

STORM DRAIN PLAN & PROFILE

BROADWAY BOULEVARD

RECORD DRAWING

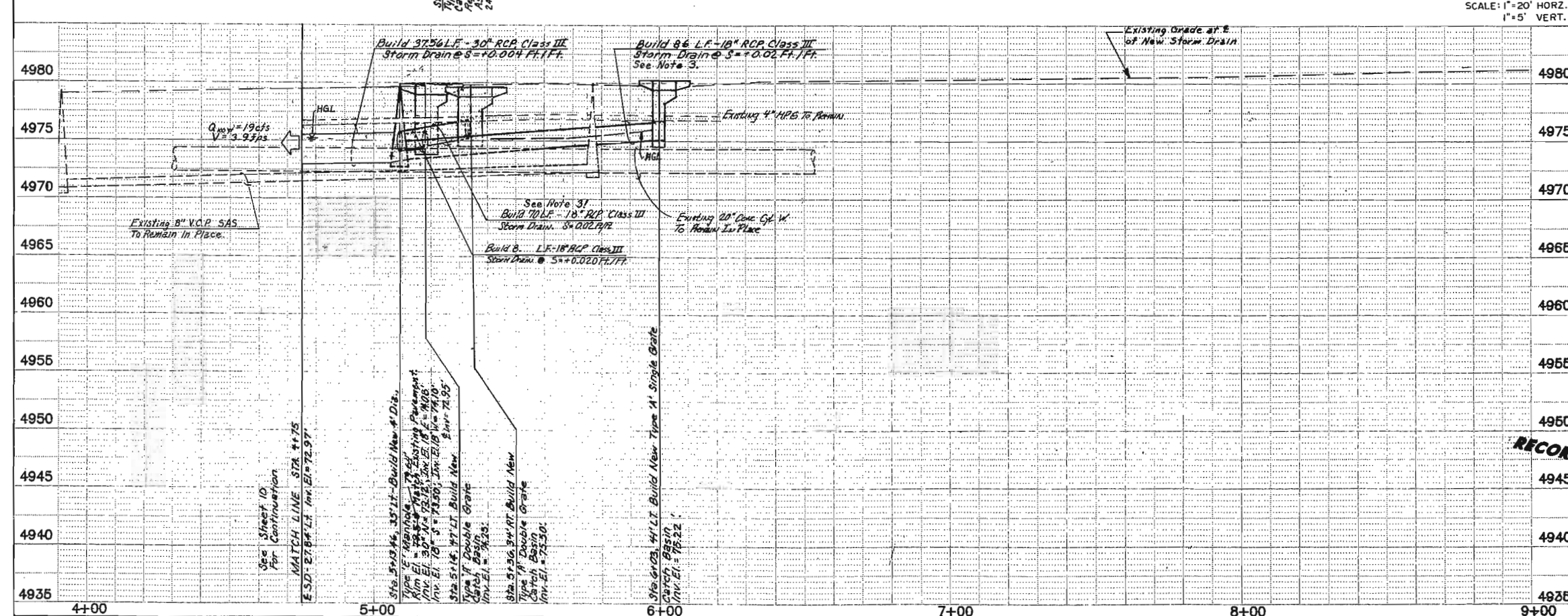
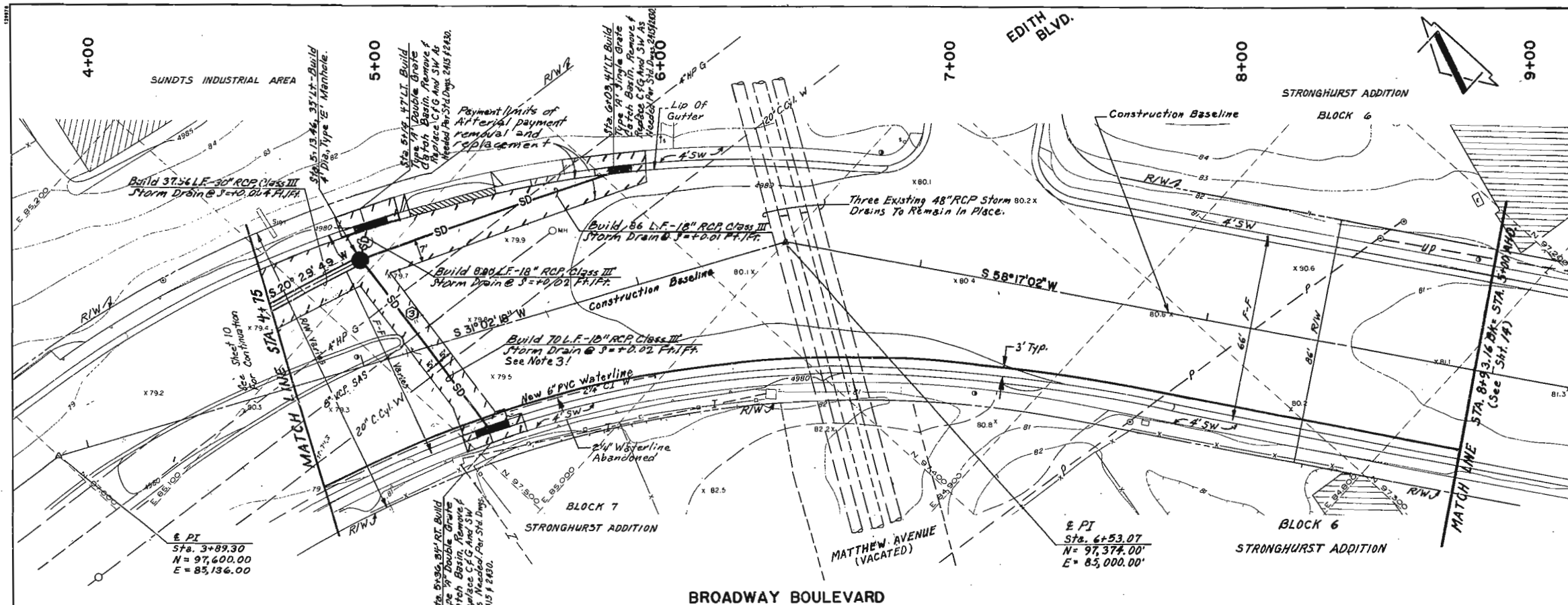
APPROVED

CITY ENGINEER

City Project No. 4271.92

Zone Map No. G-15,H-15

Sheet 10 of 39



- NOTES:**

- ① The Contractor shall be responsible for the replacement of curb in the same horizontal and vertical location as existing.
- ② All curbs and gutters, median curbs and sidewalks removed due to storm drain construction shall be replaced at the same horizontal and vertical locations as existing.
- ③ The horizontal and vertical locations of the existing 4" HP gas line and the 20" COP waterline are critical to the grade of this storm drain lateral. The Contractor shall verify the exact location of these lines and report to the Engineer for grade approval prior to beginning any work of this lateral.
- ④ After the installation of the storm drains and other utilities, removal of pavement removed within Broadway Blvd. with Type 'A' Arterial asphalt pavement (See Sht. 21). The Contractor shall be responsible for coordinating with the City of Phoenix to make the final determination of existing grades.
- ⑤ Remove and Replace curb and gutter and sidewalk as needed. Match existing height & vert. per C.O.A. Std. Dwg. 2415 & 2430.

[illegible]

ANDREWS, ASBURY & ROBERT, INC.
—CONSULTING ENGINEERS—
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8500 MENAUL BLVD., NE.
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ALBUQUERQUE, NEW MEXICO 87112
TELEPHONE 505 275-7500
FAX 505 275-0748

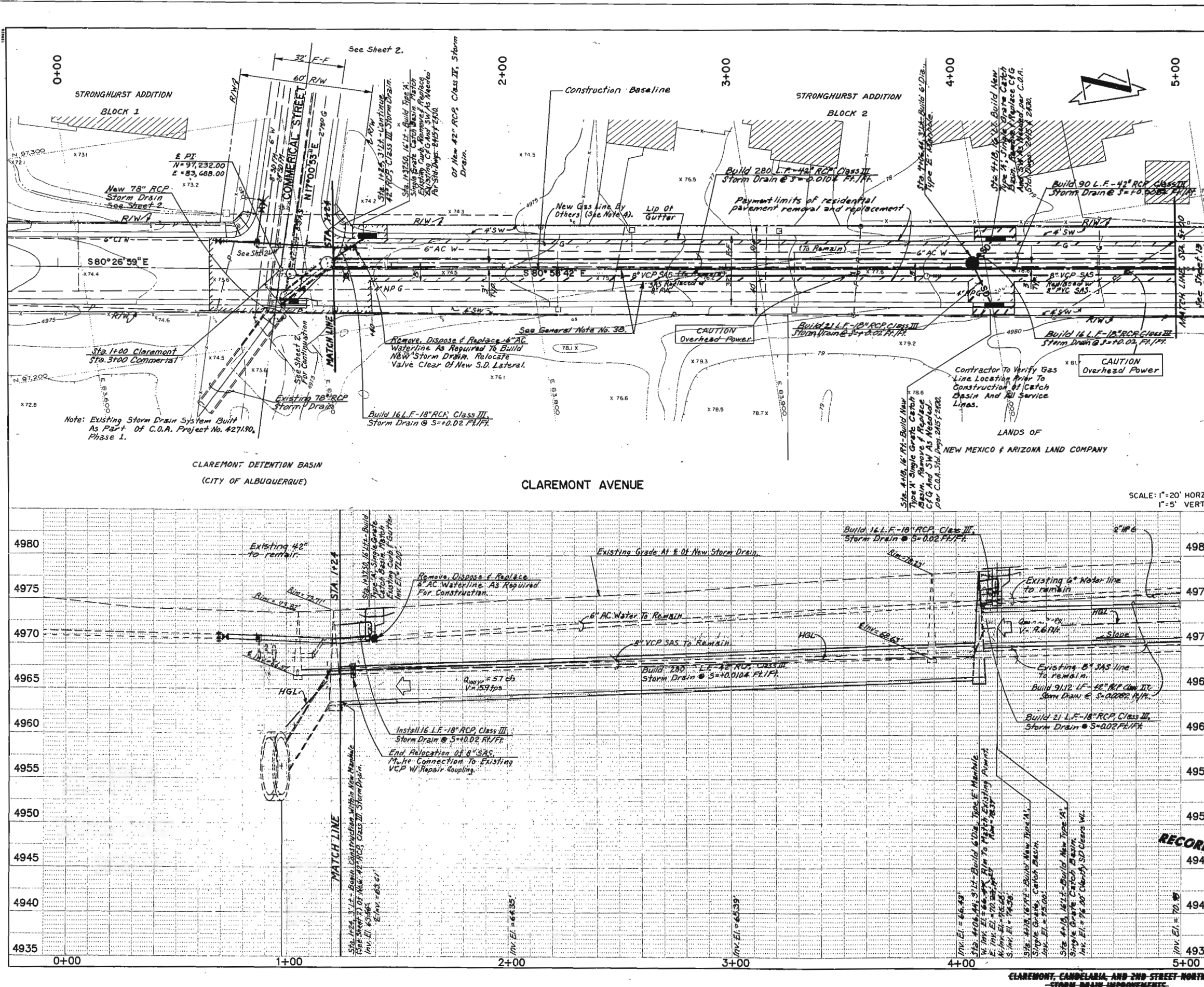
DRAWING CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: COMMERCIAL, CANDELARIA, CLAREMONT
& BROADWAY STORM DRAIN IMPROVEMENTS
STORM DRAIN PLAN & PROFILE
BROADWAY BOULEVARD

APPROVED JUL 26 1998 CITY ENGINEER'S OFFICE

APPROVED JUL 29 1998 CITY ENGINEER'S OFFICE

City Project No.	4271.92	Zone Map No.	G-15.H-15	Sheet	11	Of	39
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NOTES:

- Landscaping to be returned to existing condition. Payment for this work shall be made under Bid Item No. 123 (Landscaping Allowance).
- Remove and dispose of existing curb and gutter and sidewalk as needed to build the storm drain system. The Contractor shall be responsible for replacement in the same horizontal and vertical locations as existing.
- After the installation of the new storm drain and other utilities, replace all pavement removed from Claremont Ave. with Residential asphalt pavement (See Sht. 21). The Contractor shall coordinate with the City Project Manager, the field determination of existing grades prior to pavement removal.
- PHM will relocate the gas main within Claremont Ave. to two feet (2') from the tip of the North curb. The Contractor shall provide trench, back fill and compaction. PHM will install the main and make all connections.
- Remove and Replace curb and gutter and sidewalk as needed. Match existing horiz. vert. per C.O.A. Std. Dwg. 2415 & 2430.

AS BUILT INFORMATION

CONTRACTOR: Cordoba Const. Co.

DESIGNED BY: J. L. HARRIS

CHECKED BY: J. L. HARRIS

DATE: 11/11/97

BENCH MARKS

STA. NM47-11

INCH BRASS TABLET SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND LOCATED IN THE MEDIAN OF THE 3200 BLOCK OF SECOND STREET, NW. APPROXIMATELY 400 FEET SOUTH OF MILDRED AVE. ELEV. 4868.533

SURVEY INFORMATION

FIELD NOTES

NO.	DATE	BY
1		
2		
3		
4		
5		
6		
7		

ENGINEER'S SEAL

ANDREWS, ASBURY & ROBERT, INC.

CONSULTING ENGINEERS

ALBUQUERQUE 87-776 NEW MEXICO

8500 MENAUL BLVD., NE.

SUITE A-440

ALBUQUERQUE, NEW MEXICO 87112

TELEPHONE 505 276-7500

FAX 505 275-0748

REVISIONS

NO.	DATE	REMARKS	BY
1			
2			
3			
4			
5			
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7			

CITY OF ALBUQUERQUE

PUBLIC WORKS DEPARTMENT

ENGINEERING GROUP

TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS

STORM DRAIN PLAN & PROFILE

CLAREMONT AVENUE

APPROVED

JUL 26 1998

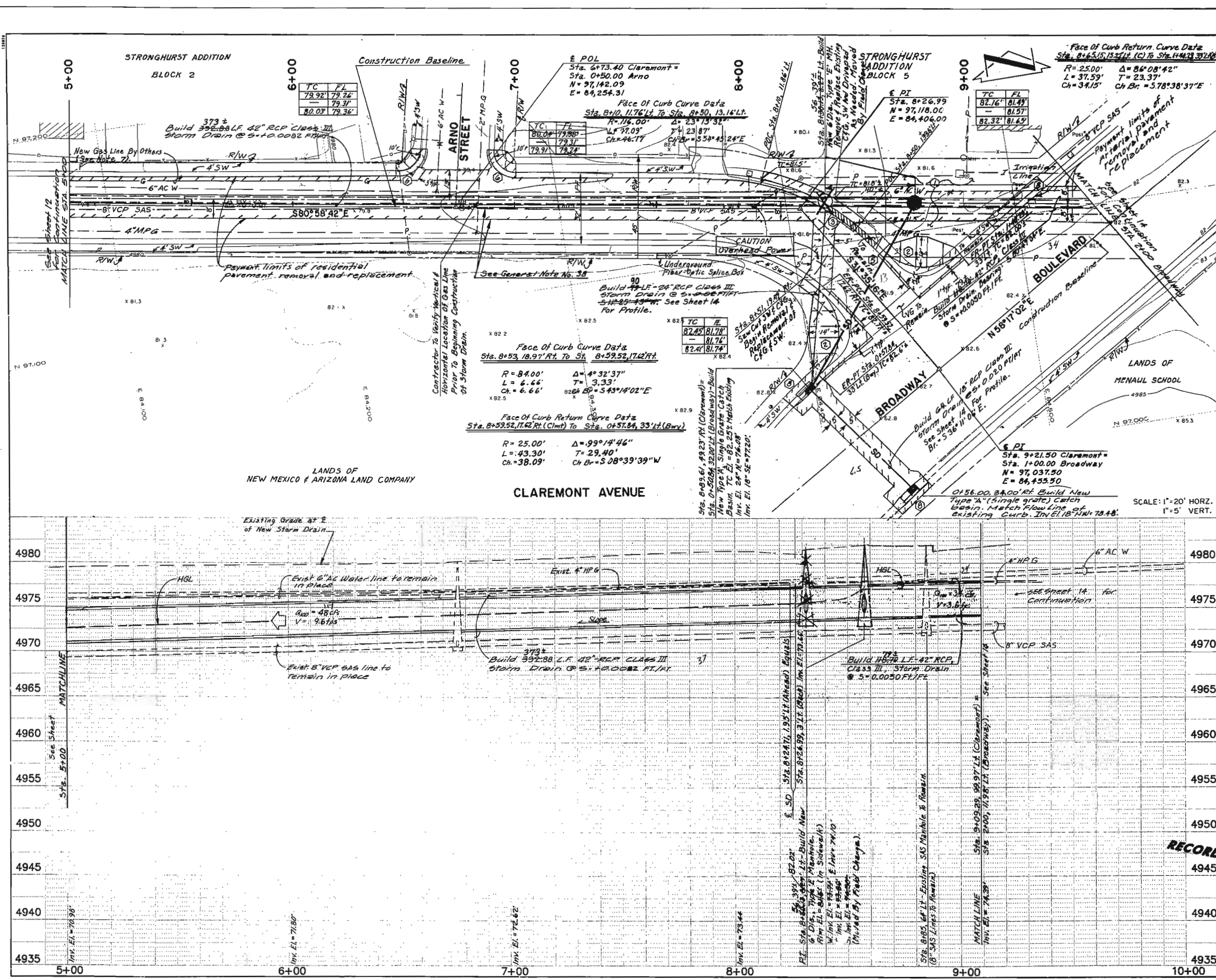
DESIGNER: J. L. HARRIS

CITY ENGINEER: J. L. HARRIS

City Project No. 4271.92

Zone Map No. G-15, H-15

Sheet 12 of 39



NOTES:

1. Landscaping to be returned to existing condition. Payment for this work shall be made under Bid Item No. 128 (Landscaping Allowance).
2. Saw cut valley gutter and pavement as shown. Remove and dispose of existing curb and gutter and sidewalks at curb returns. Build new Case II Handicapped Ramp (C.O.A. Std. Dwg. 2440 & 2441). Horizontal data and vertical data provided. Slop to match flow line of existing gutters and valley gutter. The Contractor shall be responsible for matching existing curbs & gutters, sidewalks and the valley gutter, and for insuring proper drainage in the streets.
3. Remove and dispose of existing curb and gutter, drive pad and sidewalk as needed to build this storm drain system. The Contractor shall be responsible for replacement in the same horizontal and vertical locations per C.O.A. Std. Dwg. 2425.
4. After the installation of the new storm drain and other utilities, replace pavement removed on Broadway Blvd. w/ Type A Arterial asphalt pavement (See Sht. 21). Replace pavement on Claremont Ave. with residential asphalt pavement (See Sht. 21). The Contractor shall be responsible for coordinating w/ the City Project Manager, the field determination of existing grades prior to pavement removal.
5. POC = ER Sta. 8+55.15, 15.22' LT. (Claremont) TC EL. = 82.06' +/- (Match Existing).
6. Remove and dispose of existing curb and gutter and sidewalk at return. Build Case I Handicapped Ramp (C.O.A. Std. Dwg. 2440 and 2441). Contractor shall be responsible for matching existing curbs & gutters and sidewalks, and for insuring proper drainage in the streets.
7. PMM will relocate the gas main within Claremont Ave. to two feet (2') from the lip of the North curb. The Contractor shall provide trench, back fill and compaction. PMM will install the main and make all connections.
8. Remove and Replace sidewalk and curb & gutter as needed to build storm drain. Match existing grades with new construction per C.O.A. Std. Dwg. 2415 & 2430.

SCALE: 1"=20' HORIZ. 1"=5' VERT.

ENGINEER'S SEAL: [Seal of Andrew Asbury & Robert, Inc.]

RECORD DRAWING

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP

TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS STORM DRAIN PLAN & PROFILE CLAREMONT AVENUE

APPROVE: [Signatures]

CITY ENGINEER

City Project No. 4271.92 Zone Map No. G-15, H-15 Sheet 13 of 39

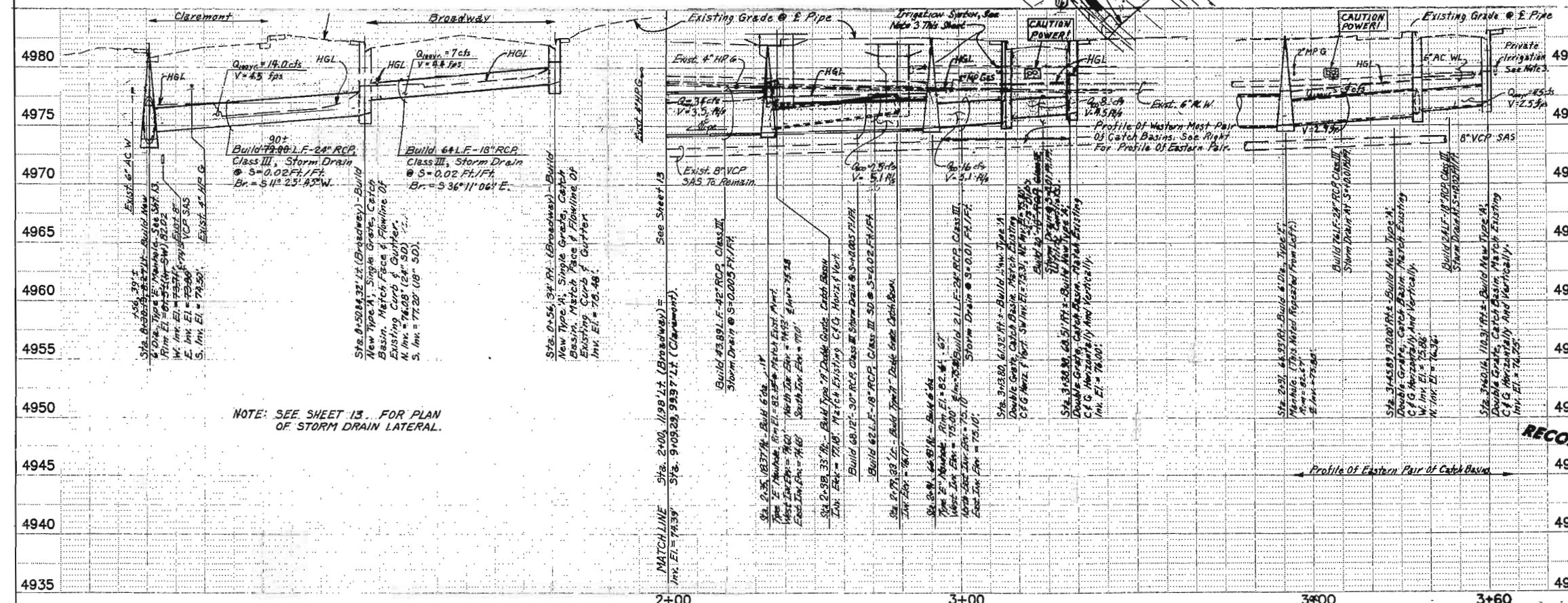
NO. DATE REMARKS BY

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ISSUED BY: RL DATE: April, 1997

DRAWN BY: RL DATE: April, 1997

CHECKED BY: RL DATE: April, 1997



NOTES:

- Landscaping to be returned to existing condition. Payment for this work shall be made under Bid Item No. 128 (Landscaping Allowance).
- Remove and dispose of existing curb and gutter, drive pad and sidewalk as needed to build this storm drain system. The Contractor shall be responsible for replacement in the same horizontal and vertical.
- Contractor shall excavate existing water, SAS & underground electric lines where they cross the proposed storm drain to determine if there are any conflicts. No storm drain lines or catch basins are to be constructed in this area until a thorough investigation of the horizontal and vertical locations of water, SAS, electric & the private irrigation system has been completed and a determination made that no conflicts with the new storm drain, as designed, exists. If conflicts are discovered, the Contractor shall contact the Engineer as the conflicts may be resolved. The private irrigation system shall remain in service during and after construction. In the event any of the utilities must be relocated, with approval, like materials and workmanship shall be used, at the Contractor's expense.
- After the installation of the new storm drain and other utilities, replace pavement removed on Broadway Blvd. w/ Type 'A' Arterial asphalt pavement. Replace pavement on Garment St. with residential asphalt pavement (See Sheet 21). The Contractor shall be responsible for coordinating w/ the City Project Manager, the field determination of existing grades prior to pavement removal.
- Remove and dispose of existing curb and gutter and asphalt pavement at return. Build Class II Handcapped Ramp (See Std. Draw 2440 and 2441). Contractor shall be responsible for matching existing curbs and gutters, for replacing asphalt pavement, and for insuring proper drainage in the streets.
- Sta. 2+81.66, 9.3' Rt.- Build 6" Dia. Type 'E', Manhole. Rim El.= 82.80.
- Sta. 2+87.94, 35' Rt.- Relocate Existing 6" Plug Existing 6" Tee On North/South WL. Install 1-6" Tapping Tee On Existing 6" WL And 5 LF Of 6" Pipe To Relocated FH. All Joints Restrained. One Wet Connection.
- Sta. 3+13.80, 62.32' Rt.-Build New Type 'A', Double Grate Catch Basin. Match Existing Curb & Gutter Horizontally & Vertically.
- Sta. 3+38.98, 88.51' Rt.-Build New Type 'A', Double Grate Catch Basin. Match Existing Curb & Gutter Horizontally & Vertically.
- Sta. 3+45.89, 130.00' Rt.- Build New Type 'A', Double Grate Catch Basin. Match Existing Curb & Gutter Horizontally and Vertically.
- Sta. 3+80.16, 110.31' Rt.- Build New Type 'A', Double Grate Catch Basin. Match Existing Curb & Gutter Horizontally And Vertically.
- Build 21 LF 24" RCP, Class-III, Storm Drain At S=+0.02 Ft./Ft.
- Build 20 LF 18" RCP- Class-III, Storm Drain, At S=+0.02 Ft./Ft. Due to utility Conflicts.
- Build 19 LF 18" RCP, Class III, Storm Drain At S=+0.02 Ft./Ft.
- The Original Manhole Was Not Found. It Is To Remain In Place If Encountered.
- Remove and Replace sidewalk and curb & gutter as needed to build storm drain. Match existing grades with new construction per C.O.A. Std. Drgs. 2415 & 2430.

AS BUILT INFORMATION	
CONTRACTOR: <i>Condore Const. Co.</i>	
DATE	BY
1997	<i>John C. Co.</i>
CHECKED BY: <i>Walker Survey</i> DATE: 1/92 APPROVED BY: <i>City Engineer</i> DATE: 2-92 DRAWN BY: <i>Walker Survey</i> DATE: " " CHECKED BY: <i>Walker Survey</i> DATE: " " CONSTRUCTION BY: <i>Larkin Group</i> DATE: " " MICRO-FILM INFORMATION RECORDED BY: DATE: " " RECORDED BY: DATE: " "	

BENCH MARKS

STA. 1M47-11

INSURANCE TABLET SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND LOCATED IN THE MEDIAN OF THE 3200 BLOCK OF SECOND STREET, NW. APPROXIMATELY 400 FEET SOUTH OF MILDRED AVE. ELEV. 4968.533

SURVEY INFORMATION	
FIELD NOTES	
NO.	BY
1	
2	
3	
4	
5	
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7	

ENGINEER'S SEAL

CHARTERED PROFESSIONAL ENGINEER

STATE OF NEW MEXICO

1997

REVISIONS	
NO.	DATE
1	
2	
3	
4	
5	
6	
7	

FACE OF CURB RETURN DATA

Sta. 2+87.94, 33.7' Rt. To Sta. 3+12.89, 54.45' Rt. R= 25.00', L= 35.71' & Delta= 81°50'00"

Sta. 3+37.98, 61.55' Rt. To Sta. 3+62.70, 33.7' Rt. R= 25.00', L= 42.83' & Delta= 98°10'00"

REVISIONS

DESIGNED BY: *RL* DATE: April, 1997

DRAWN BY: *RL* DATE: April, 1997

CHECKED BY: *RL* DATE: April, 1997

ANDREWS, ASBURY & ROBERT, INC.
 CONSULTING ENGINEERS
 ALBUQUERQUE 507-778 NEW MEXICO

8500 MENAUL BLVD., NE.
 SUITE A-440
 ALBUQUERQUE, NEW MEXICO 87112
 TELEPHONE: 505 275-7500
 FAX 505 275-0748

CITY OF ALBUQUERQUE
 PUBLIC WORKS DEPARTMENT
 ENGINEERING GROUP

DRAWING

TITLE: **COMMERCIAL CANDELARIA, CLOAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS**
 STORM DRAIN PLAN & PROFILE
 CLOAREMONT AVENUE

APPROVED

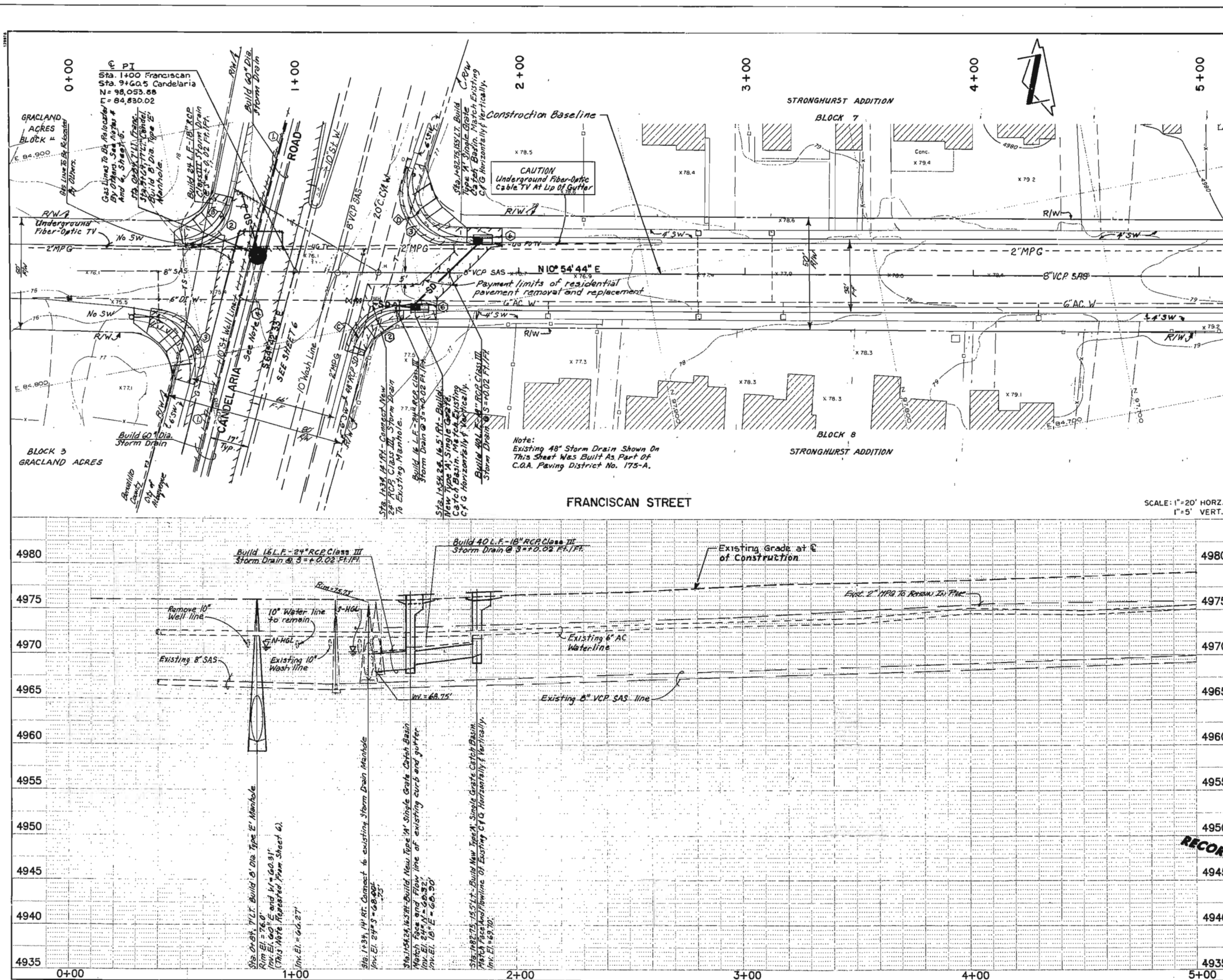
JUL 26 1998

DESIGN REVIEWED BY: *WATKINS*

CITY ENGINEER

City Project No. **4271.92** Zone Map No. **G-15,H-15**

Sheet **14** of **39**



NOTES:

- Existing 10" ST. well line to be removed in Candelaria where conflicts exist with construction of new storm drain.
- This note repeated from Sheet 6. Remove and dispose of existing curb and gutter and sidewalk at return. Build Case II Handicapped Ramp (C.O.A. Std. Drgs. 2440 and 2441). Contractor shall be responsible for matching existing curbs and gutters and sidewalks, and for insuring proper drainage in the streets.
- This note repeated from Sheet 6. Remove and dispose of existing curb and gutter and sidewalk at return. Build Case II Handicapped Ramp (C.O.A. Std. Drgs. 2440 and 2441). Contractor shall be responsible for matching existing curbs and gutters and sidewalks, and for insuring proper drainage in the streets.
- See Sheet 6 for additional details of this new storm drain system. This storm drain shown here for information purposes only.
- This project is subject to the terms and conditions of the Master Utility Easement and Right-of-Way Agreement entered into between the County of Bernalillo and the City of Albuquerque, effective date: August 20, 1990.
- Remove and Replace sidewalk and curb & gutter as needed to build storm drain. Match existing grades with new construction per C.O.A. Std. Drgs. 2415 & 2430.

AS BUILT INFORMATION

CONTRACTOR: Condore Const. Co.

DRAWN BY: Walter Survey, Inc.

CHECKED BY: [Signature]

DATE: [Date]

BENCH MARKS

STA. NM47-11

WASHIC BRASS TABLET SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND LOCATED IN THE MEDIAN OF THE 3200 BLOCK OF SECOND STREET, N.W. APPROXIMATELY 400 FEET SOUTH OF MILDRED AVE. ELEV. 4908.533

SURVEY INFORMATION

FIELD NOTES

NO. 1

DATE

BY

ENGINEER'S SEAL

CHAD L. LINDSAY

REGISTERED PROFESSIONAL ENGINEER

NEW MEXICO

NO. 11919

FACE OF CURB RETURN DATA

STA. 0+30.00, 14.50' RT. (FRAN.) TO STA. 9+04.85, 33' LT. (CANDEL.)	R = 25.00' L = 45.54' DELTA = 104°22'43"
STA. 9+89.99, 36' LT. (CANDEL.) TO STA. 0+47.06, 17.50' LT. (FRAN.)	R = 25.00' L = 34.25' DELTA = 78°29'02"
STA. 9+32.53, 33' RT. (CANDEL.) TO STA. 1+49.24, 16.50' RT. (FRAN.)	R = 25.00' L = 33.00' DELTA = 75°37'17"
STA. 1+77.75, 15.50' LT. (FRAN.) TO STA. 10+20.62, 40.31' RT. (CANDEL.)	R = 25.00' L = 47.12' DELTA = 108°00'06"

ANDREWS, ASBURY & ROBERT, INC.

CONSULTING ENGINEERS

ALBUQUERQUE 87-776 NEW MEXICO

8500 MENAUL BLVD., NE.

SUITE A-440

ALBUQUERQUE, NEW MEXICO 87112

TELEPHONE 505 275-7500

FAX 505 275-0748

CITY OF ALBUQUERQUE

PUBLIC WORKS DEPARTMENT

ENGINEERING GROUP

TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS

STORM DRAIN PLAN & PROFILE

FRANCISCAN STREET

RECORD DRAWING

APPROVE JUL 25 1993

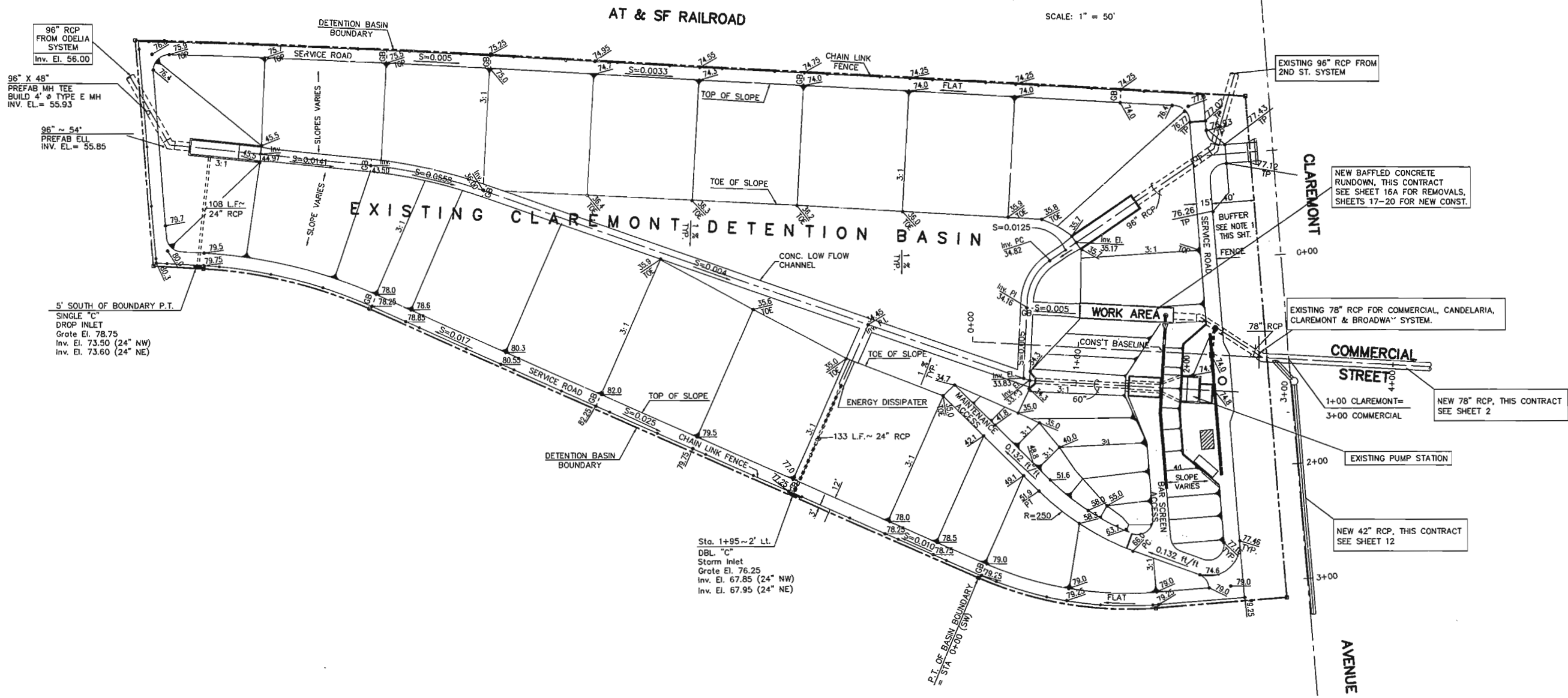
REVIEW JUL 29 1993

CITY ENGINEER

City Project No. 4271.92

Zone Map No. G-15,H-15

Sheet 15 of 39



SCALE: 1" = 50'

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
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ALBUQUERQUE, NEW MEXICO 87112
TELEPHONE 505 275-7500
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RECORD DRAWING

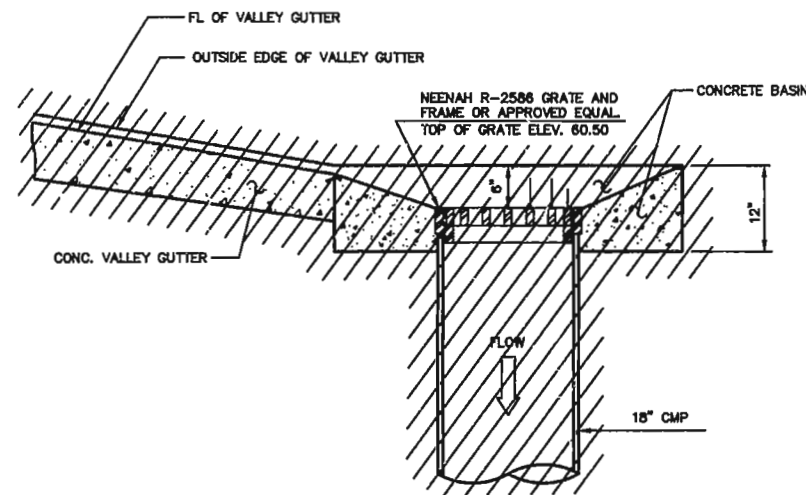
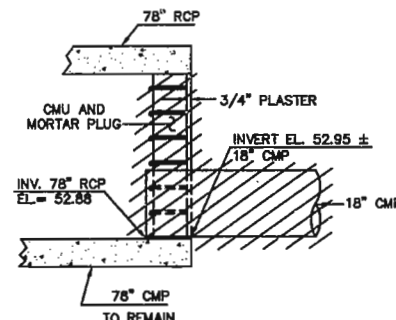
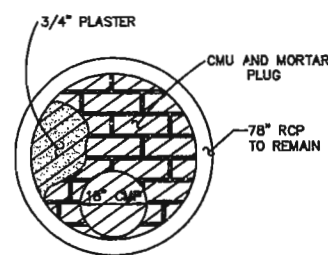
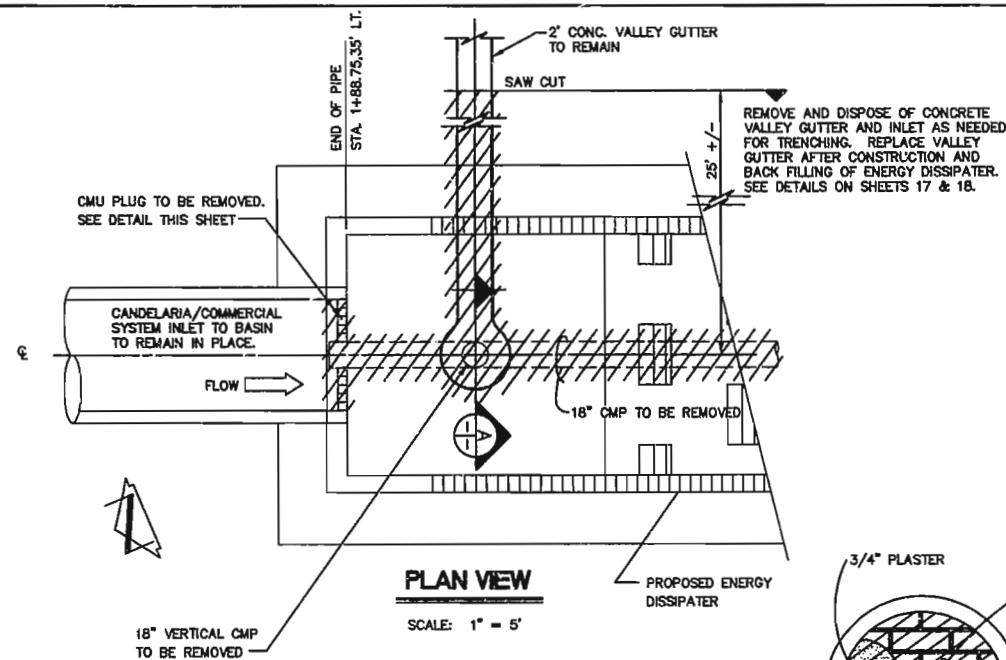
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS**
CLAREMONT DETENTION BASIN

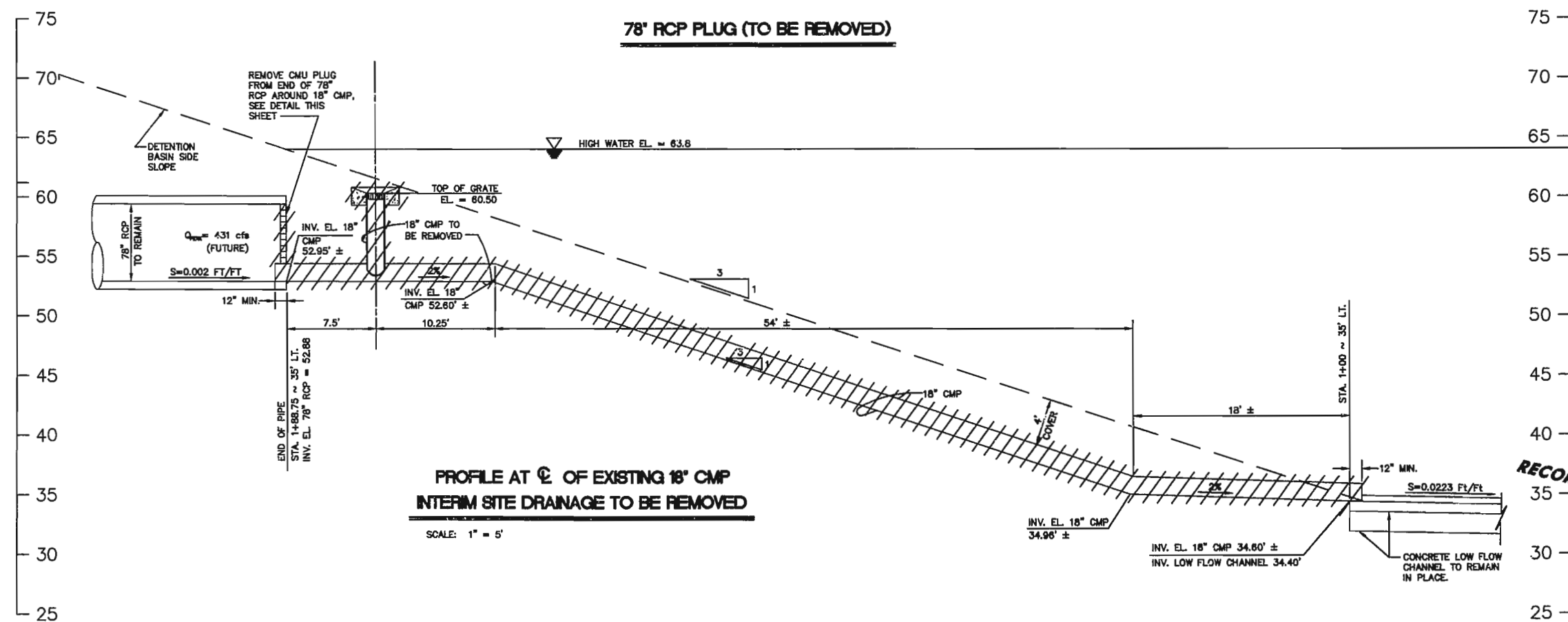
APPROVE	DATE	REMARKS	BY
JUL 26 1998			
JUL 29 1998			

City Project No. **4271.92** Zone Map No. **G-15,H-15** Sheet **16** Of **39**

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	Condore Const. Co.	STA. IN47-11	DATE	NO.	BY		REVISIONS
DESIGNED BY	W.B. Asbury	DATE	DATE	1	DATE		
CHECKED BY	W.B. Asbury	DATE	DATE	2	DATE		
APPROVED BY	W.B. Asbury	DATE	DATE	3	DATE		
DESIGNED BY	W.B. Asbury	DATE	DATE	4	DATE		
CHECKED BY	W.B. Asbury	DATE	DATE	5	DATE		
APPROVED BY	W.B. Asbury	DATE	DATE	6	DATE		
DESIGNED BY	W.B. Asbury	DATE	DATE	7	DATE		



78" RCP PLUG (TO BE REMOVED)



NOTE 6

AS BUILT INFORMATION
 CONTRACTOR: Candore Coast Co.
 DESIGNED BY: Welter Survey Inc. 09/97
 DRAWN BY: J.C. 09/97
 CHECKED BY: J.C. 09/97
 DATE: 09/97

BENCH MARKS
 STA. NM47-11
 MUSHING BRASS TABLE SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND LOCATED IN THE MEDIAN OF THE 3200 BLOCK OF SECOND STREET, N.W. APPROXIMATELY 400 FEET SOUTH OF MILDRED AVE. ELEV. 4968.533

SURVEY INFORMATION
 FIELD NOTES
 NO. 1
 DATE 1
 BY 1
 NO. 2
 DATE 2
 BY 2
 NO. 3
 DATE 3
 BY 3
 NO. 4
 DATE 4
 BY 4
 NO. 5
 DATE 5
 BY 5
 NO. 6
 DATE 6
 BY 6
 NO. 7
 DATE 7
 BY 7

ENGINEER'S SEAL

REVISIONS

NO.	DATE	REMARKS	BY
1	09/97	DESIGN	RL
2	12/97	DATE Dec., 1997	J.C.
3	12/97	DATE Dec., 1997	RL

ANDREWS, ASBURY & ROBERT, INC.
 CONSULTING ENGINEERS
 8500 MENAUL BLVD. NE.
 SUITE A-440
 ALBUQUERQUE, NEW MEXICO 87112
 TELEPHONE 505 275-7500
 FAX 505 275-0748

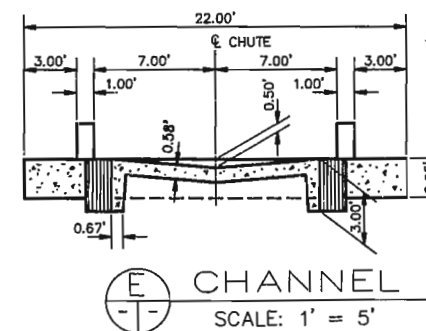
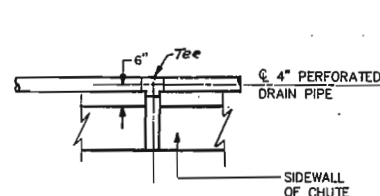
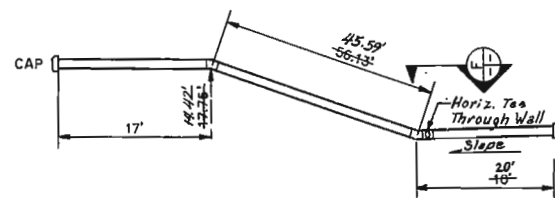
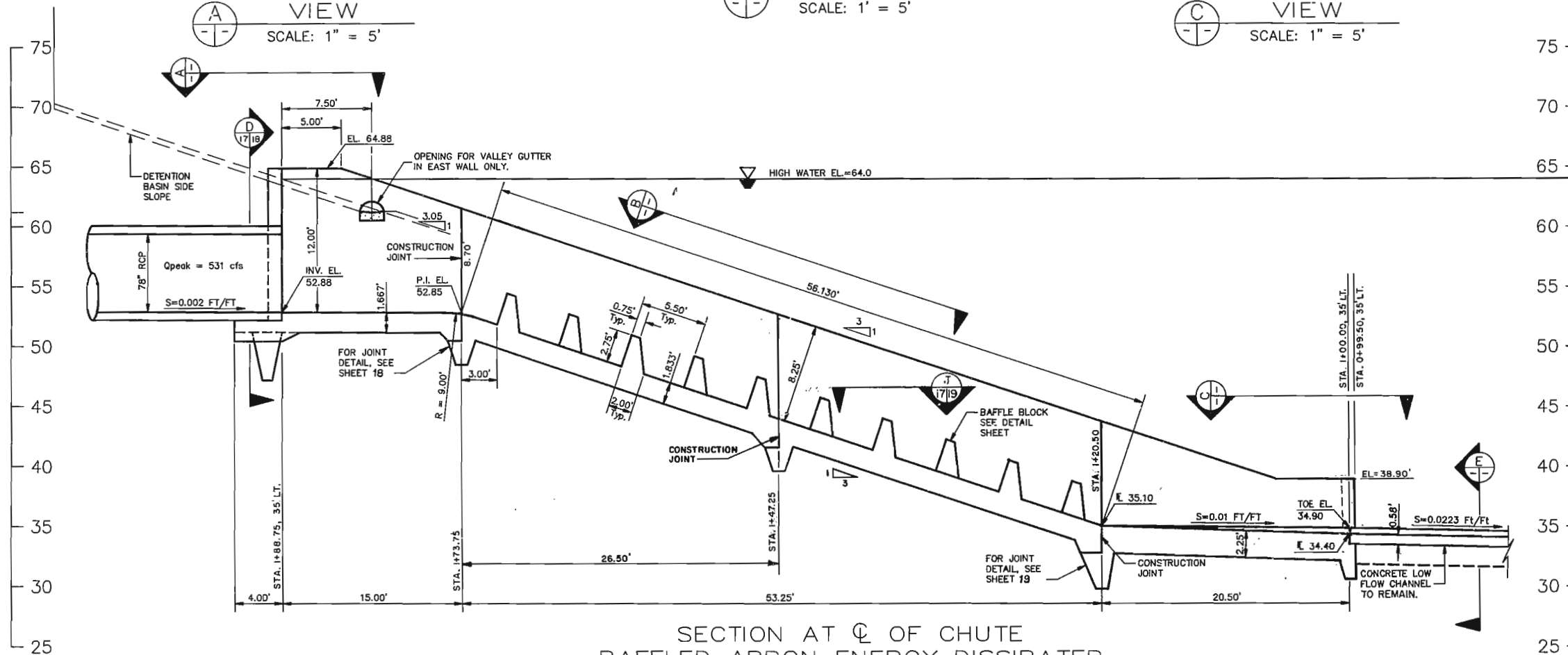
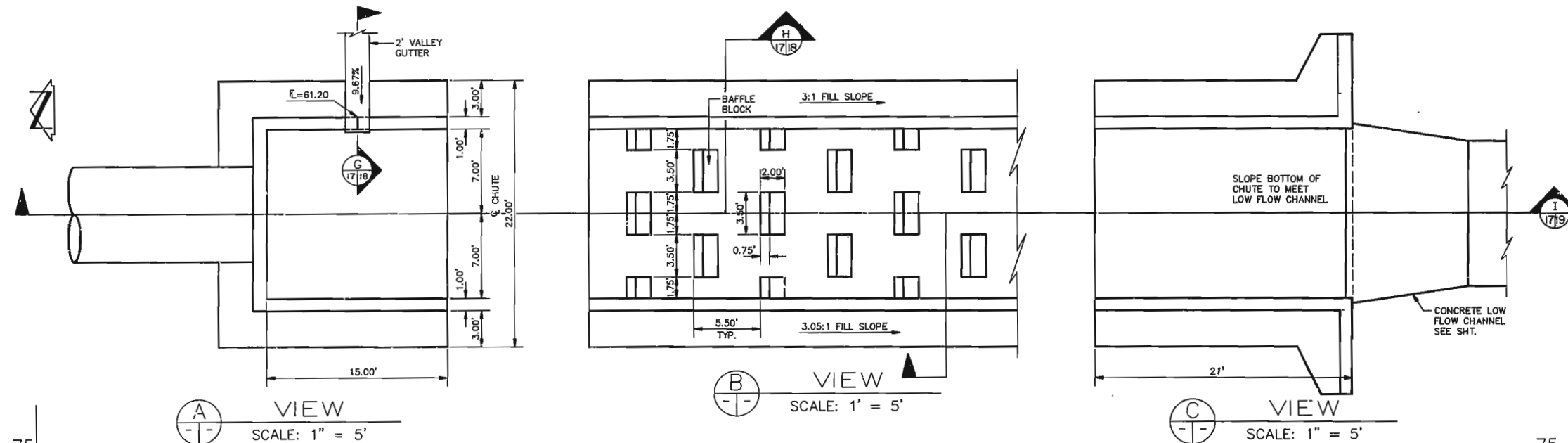
CITY OF ALBUQUERQUE
 PUBLIC WORKS DEPARTMENT
 ENGINEERING GROUP

TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS REMOVALS ENERGY DISSIPATER

APPROVE
 JUL 26 1998
 CITY ENGINEER

APPROVE
 JUL 29 1998
 CITY ENGINEER

City Project No. **4271.92** Zone Map No. **G-15,H-15** Sheet **16A** of **39**



ANDREWS, ASBURY & ROBERT, INC.
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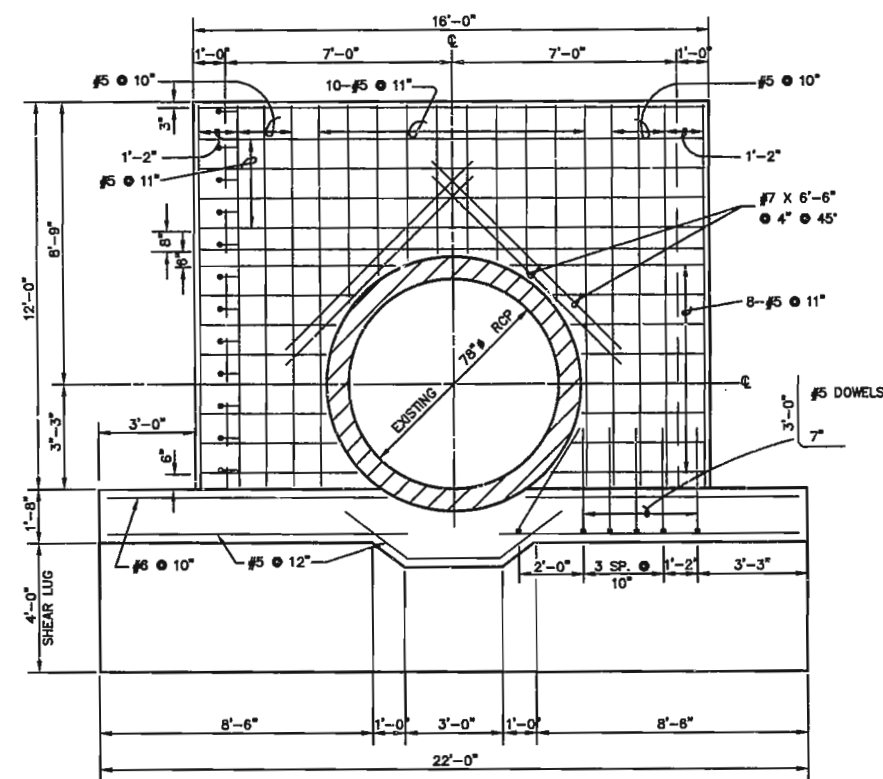
RECORD DRAWING

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS**
STRUCTURE DETAILS
ENERGY DISSIPATER

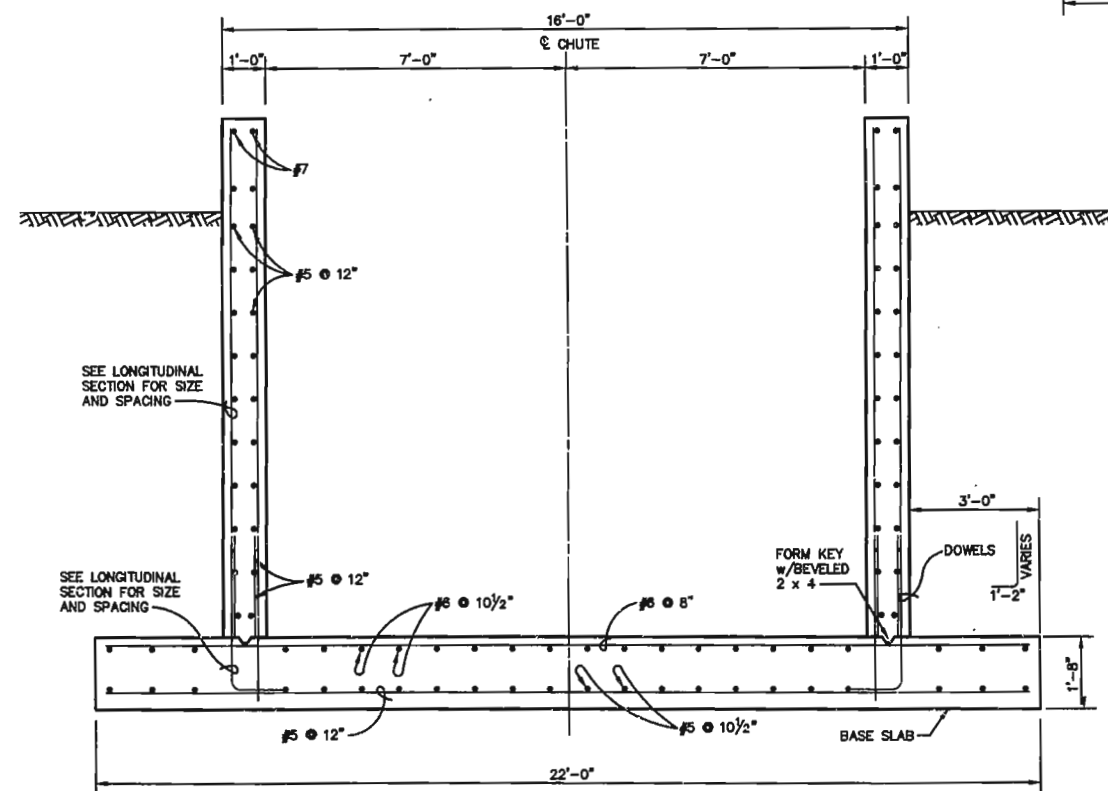
DESIGN	REVIEW	DATE	BY	DATE	BY
DESIGNED BY: RL	DATE: April, 1997				
DRAWN BY: RL	DATE: April, 1997				
CHECKED BY: RL	DATE: April, 1997				

City Project No. **4271.92** Zone Map No. **G-15, H-15** Sheet **17** Of **39**

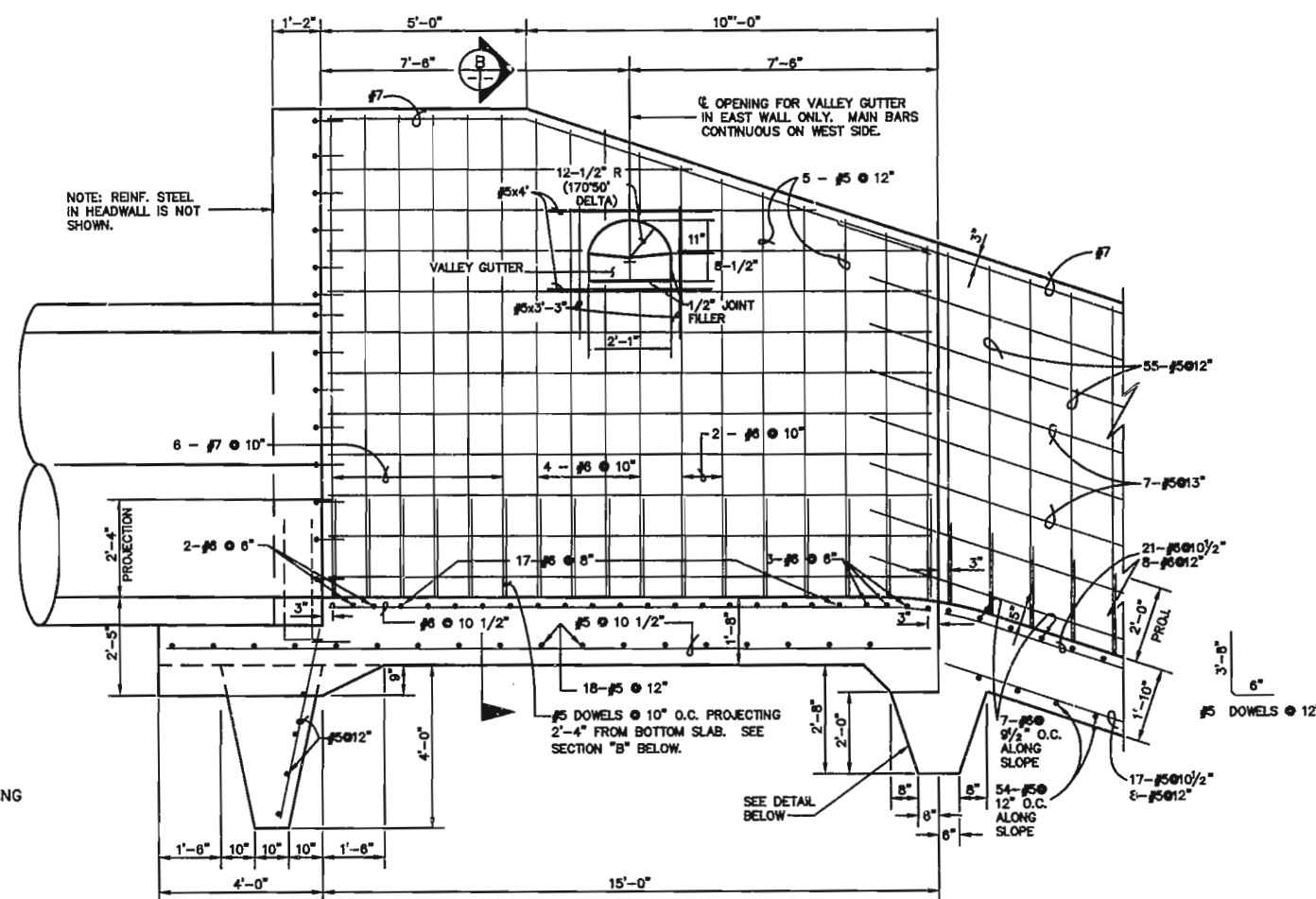


SECTION HEADWALL (D)
SCALE: 3/8" = 1'-0"

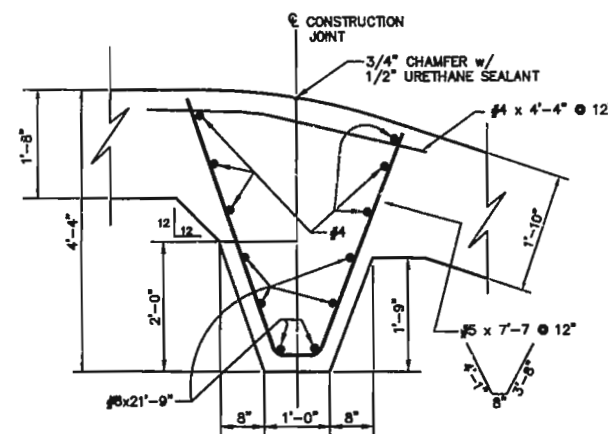
NOTE: PLACE SAME REINFORCING BARS NEAR SIDE AND FAR SIDE.



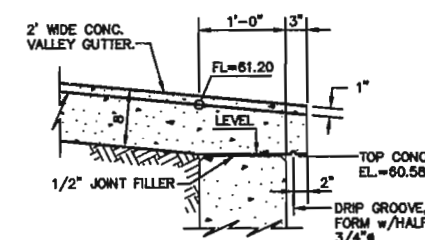
SECTION NEAR TOP OF CHUTE (B)
SCALE: 1/2" = 1'-0"



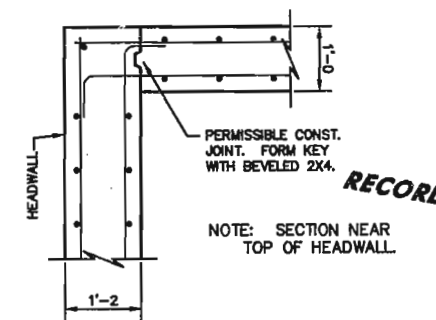
LONGITUDINAL SECTION AT TOP OF CHUTE (H)
SCALE: 1/2" = 1'-0"



TOP JOINT DETAIL
SCALE: 3/4" = 1'-0"



SECTION (G)
SCALE: 3/4" = 1'-0"



HORIZONTAL CORNER SECTION
SCALE: 3/4" = 1'-0"

NOTES:

DESIGN CRITERIA

Design is in accordance with ACI 318-89 ACI building code.

Strength design - LFD

Structural Concrete: $f' = 4000$ psi @ 28 days $n = 8$

Reinforcing Steel: $f_y = 60$ ksi

Deflection limit and crack control in accord with ACI 308R-89, Environmental Engineering Concrete Structures: $Z = 130$

Water pressure on baffle blocks.

Formula (24) from "Design of Small Dams" by U.S. Bureau of Reclamation, 2nd. Ed. 1977, P. 398.

Soils Data:

See Geo-Test report of November 15, 1991. Saturated Soil 125 pcf Moist Soil 115 pcf K_a (for Rankine's Formula) 0.30 Allowable Footing Pressure 3.0 ksf

BAR SIZE	HORIZONTAL LAP (IN.)	VERTICAL LAP (IN.)
#4	21	16
#5	21	16
#6	26	18
#7	31	24
#8	41	32
#9	52	40

WHERE REINFORCING BAR SPLICES ARE INDICATED ON THE DETAILS, LAP BARS AS SHOWN IN TABLE 1 UNLESS NOTED OTHERWISE.

CONCRETE COVER FOR REINFORCEMENT:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3 IN.

CONCRETE EXPOSED TO EARTH OR WEATHER

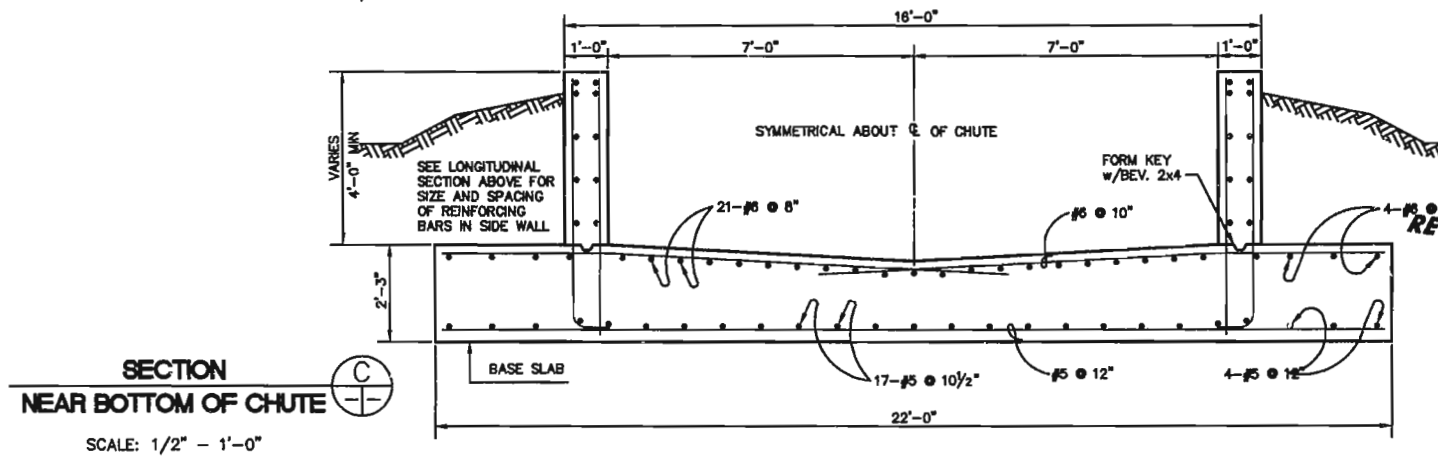
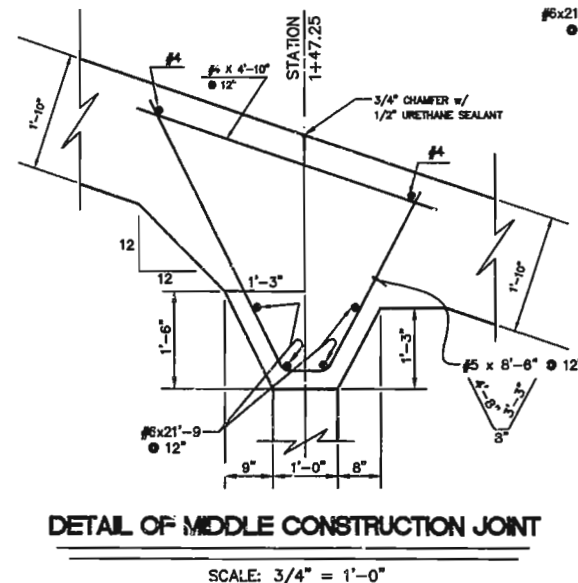
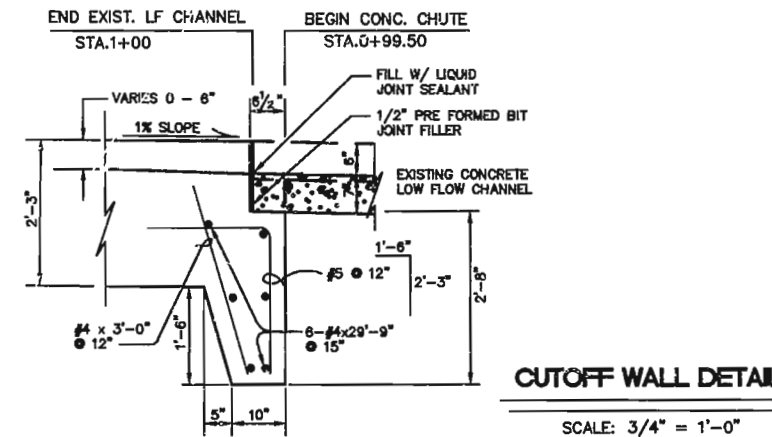
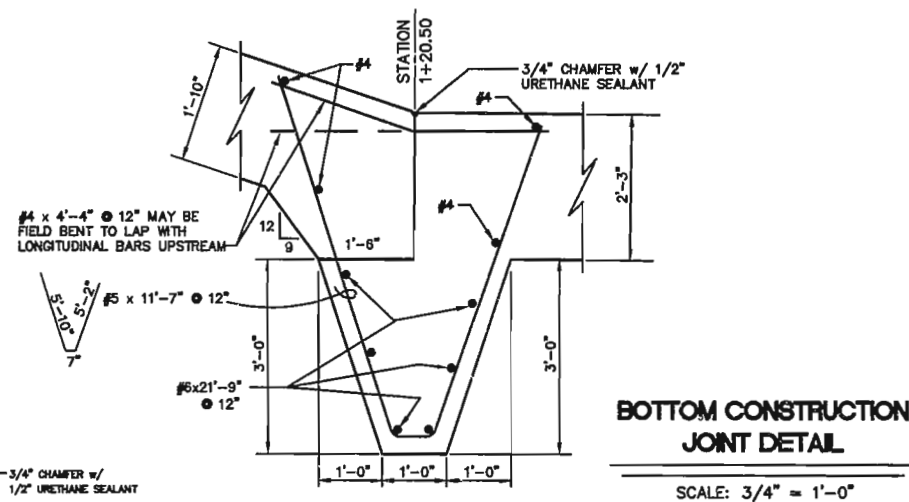
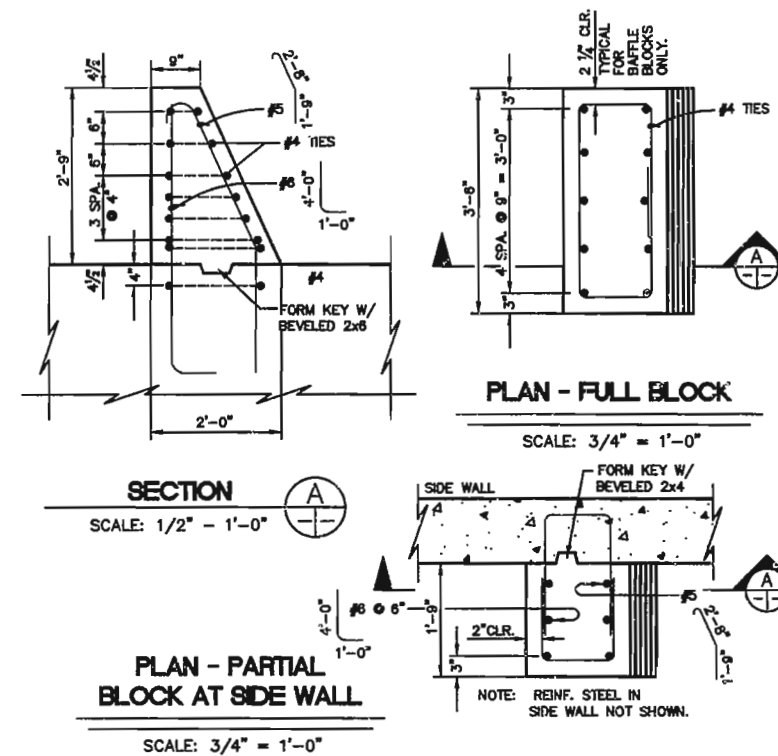
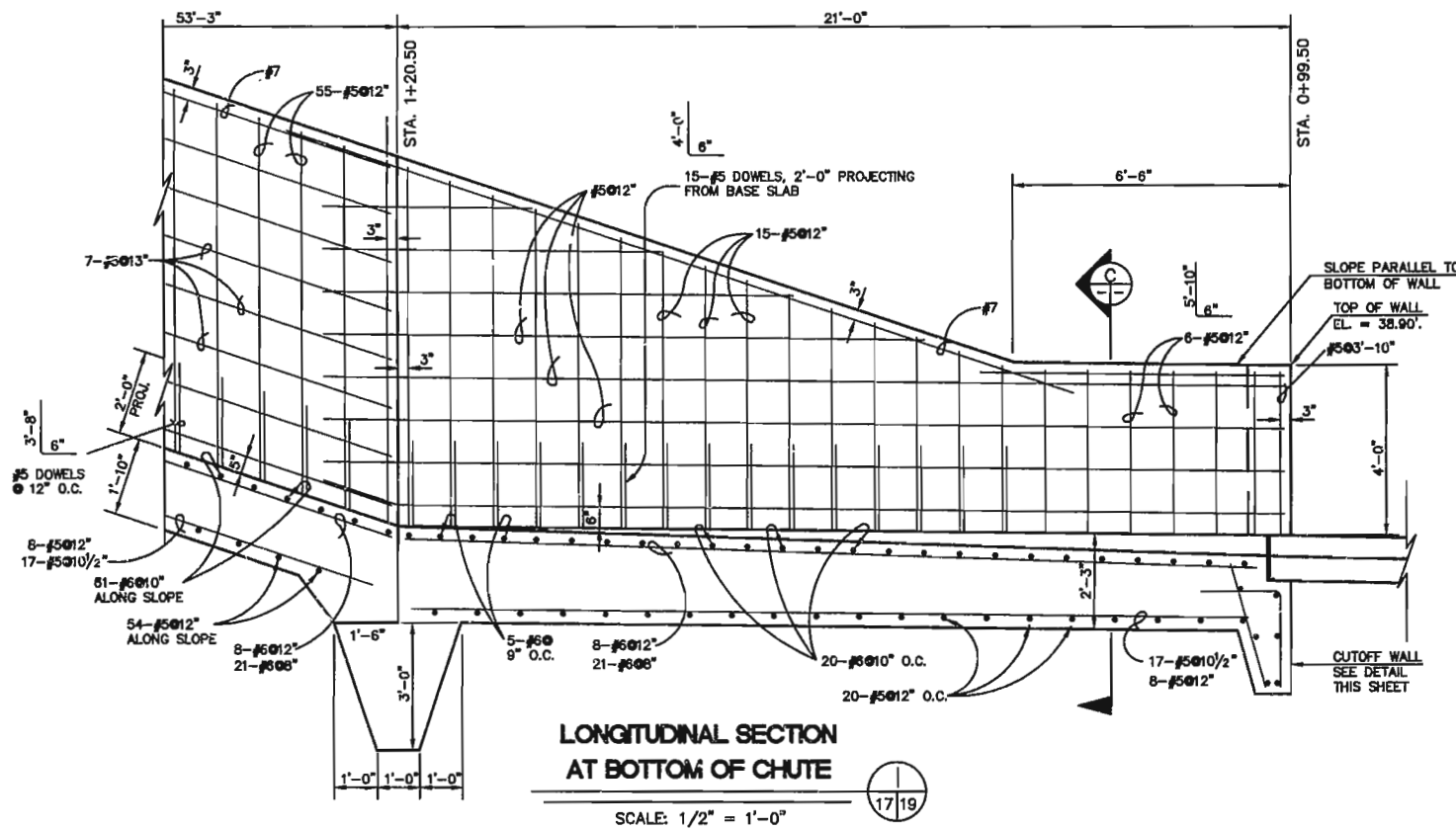
#6 through #18 bars 2 IN.
#5 bar and smaller 1 1/2 IN.

ANDREWS, ASBURY & ROBERT, INC.
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS
STRUCTURE DETAILS
ENERGY DISSIPATER

APPROVED JUL 26 1998 DESIGN REVIEW COMMITTEE	APPROVED JUL 29 1998 CITY ENGINEER	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 4271.92	Zone Map No. G-15,H-15	Sheet 18	Of 39



NOTES:

TABLE 1 MINIMUM LAP SPLICE LENGTHS	SIZE	LAP (IN.)	LAP (IN.)
BAR	HORIZONTAL	VERTICAL	
#4	21	16	
#5	21	16	
#6	26	18	
#7	31	24	
#8	41	32	
#9	52	40	

WHERE REINFORCING BAR SPLICES ARE INDICATED ON THE DETAILS, LAP BARS AS SHOWN IN TABLE 1 UNLESS NOTED OTHERWISE.

CONCRETE COVER FOR REINFORCEMENT

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH - 3 IN.

CONCRETE EXPOSED TO EARTH OR WEATHER:
#8 through #18 bars - 2 IN.
#5 bar and smaller - 1 1/2 IN.

NOTE6

TABLE 1 - MINIMUM LAP SPLICE LENGTHS	BAR SIZE	HORIZONTAL LAP (IN.)	VERTICAL LAP (IN.)
#4	21	16	
#5	21	16	
#6	26	18	
#7	31	24	
#8	41	32	
#9	52	40	

WHERE REINFORCING BAR SPLICES ARE INDICATED ON THE DETAILS, LAP BARS AS SHOWN IN TABLE 1 UNLESS NOTED OTHERWISE.

CONCRETE COVER FOR REINFORCEMENT:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3 IN.

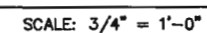
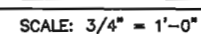
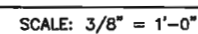
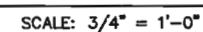
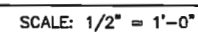
CONCRETE EXPOSED TO EARTH OR WEATHER:

#8 through #18 bars 2 IN.
#5 bar and smaller 1 1/2 IN.

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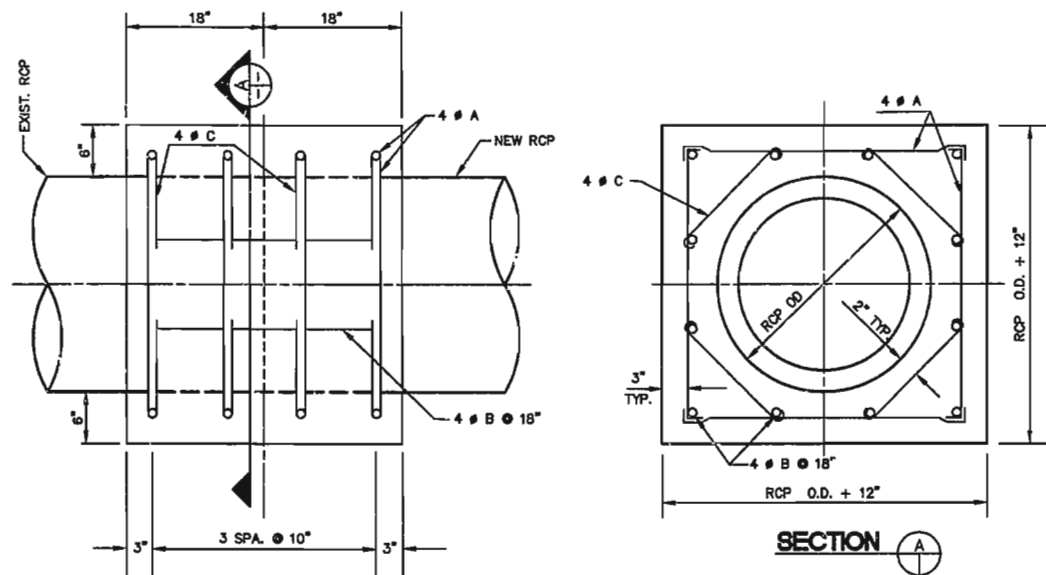
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP
TITLE: COMMERCIAL, CANDELARIA, CLAREMONT
& BROADWAY STORM DRAIN IMPROVEMENTS
STRUCTURE DETAILS
ENERGY DISSIPATER

DESIGNED BY: JC	CHECKED BY: RL	DATE: Dec., 1997	DATE: Dec., 1997
DRAWN BY: JC	CHECKED BY: RL	DATE: Dec., 1997	DATE: Dec., 1997
City Project No. 4271.92		Zone Map No. G-15,H-15	Sheet 19 of 39



CONCRETE EXPOSED TO EARTH
OR WEATHER:
#8 through #18 bars - 2 IN.
#5 bar and smaller - 1 1/2 IN.

City Project No.	4271.92	Zone Map No.	G-15,H-15	Sheet	20	Of	39
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INSIDE DIA.	OUTSIDE DIA.	RCP O.D. + 12"	4 # A (NO. & LENGTH)	4 # B (NO. & LENGTH)	4 # C (NO. & LENGTH)	REIN. BARS	CLASS "A" CONC.
18"	23"	2.9167'	16 @ 2'-6"	8 @ 2'-9"	---	41 LB.	0.69 CU. YD.
24"	30"	3.5000'	16 @ 3'-3"	12 @ 2'-9"	---	57 LB.	0.91 CU. YD.
30"	37"	4.0833'	16 @ 3'-9"	12 @ 2'-9"	---	62 LB.	1.17 CU. YD.
36"	44"	4.6667'	16 @ 4'-3"	12 @ 2'-9"	---	67 LB.	1.44 CU. YD.
48"	58"	5.8333'	16 @ 5'-6"	16 @ 2'-9"	18 @ 2'-9"	118 LB.	2.06 CU. YD.
60"	65"	6.4167'	16 @ 6'-0"	20 @ 2'-9"	16 @ 3'-3"	144 LB.	2.78 CU. YD.

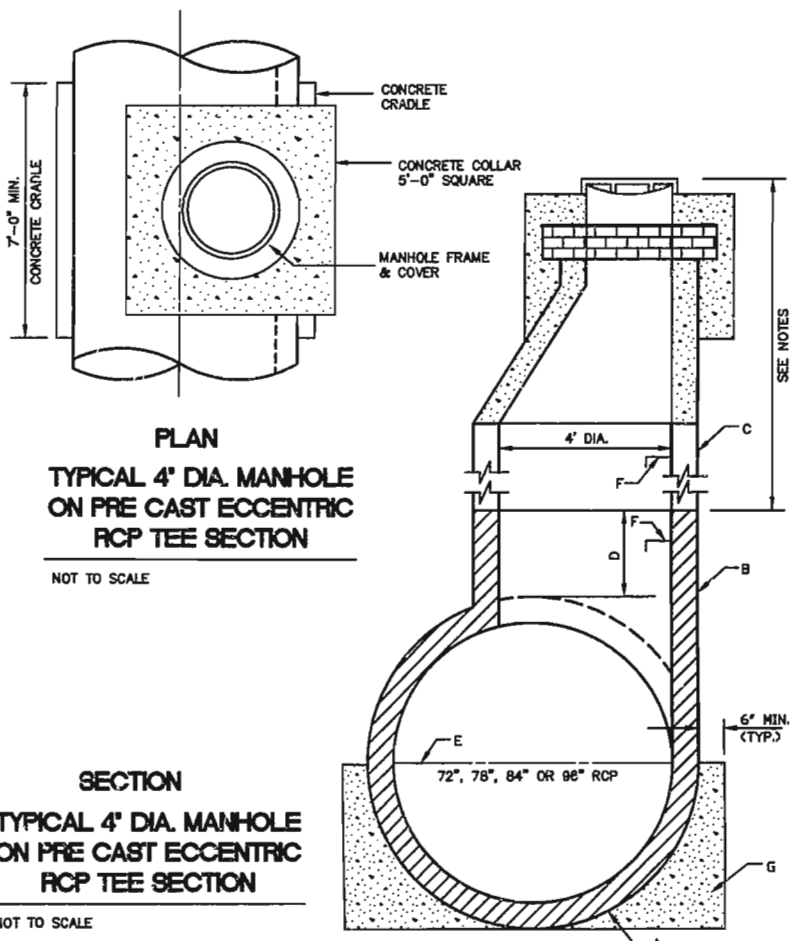
COLLAR DETAILS FOR CONNECTING EXISTING CONC. PIPE CULV. W/ NEW CONC. PIPE CULV.

GENERAL NOTES

- MANHOLE STEPS TO BE INSTALLED AS PER SPEC. SECTION 920.4.7
- FIELD FABRICATION OF ECCENTRIC PIPE TEE NOT ACCEPTABLE.
- PAYMENT FOR MAIN STORM DRAIN TRUNK LINE TO BE MADE ALONG CL. OF PIPE TO PREFABRICATED MANHOLE TEE JOINT.
- SEPARATE PAYMENT WILL BE MADE FOR PREFABRICATED TEE WHICH WILL INCLUDE THAT PORTION OF THE TRUNK LINE ASSOCIATED WITH THE TEE.
- SEPARATE PAYMENT WILL BE MADE FOR CONSTRUCTION OF 4' DIAMETER TYPE E MANHOLE ABOVE THE PREFABRICATED TEE.
- PAYMENT FOR CONCRETE CRADLE AT PRE-CAST MH TEE SECTION TO BE INCLUDED IN THE PRICE BID FOR PREFABRICATED TEE BRANCH.

CONSTRUCTION NOTES

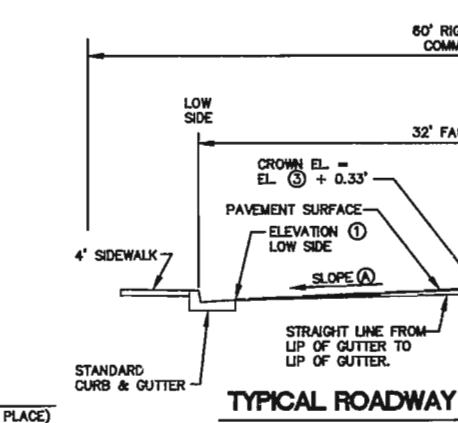
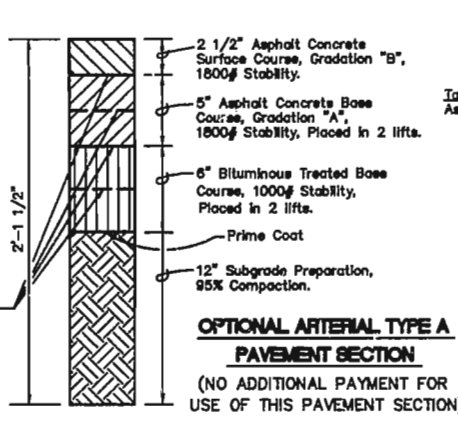
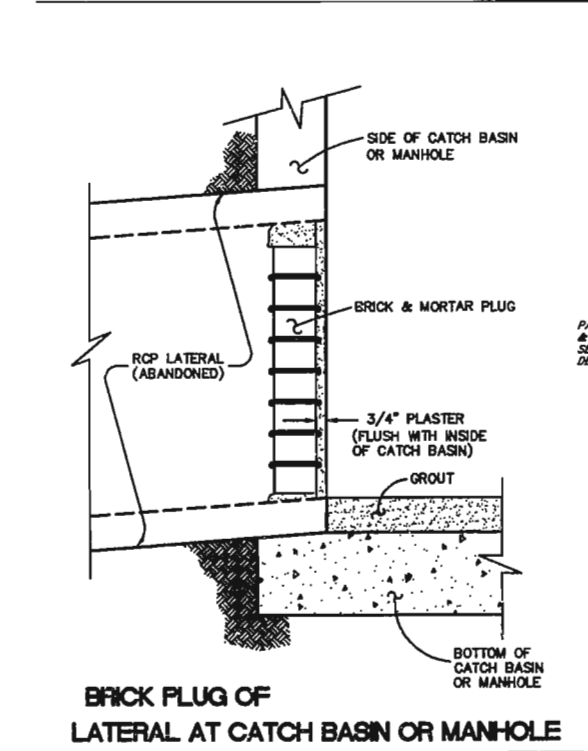
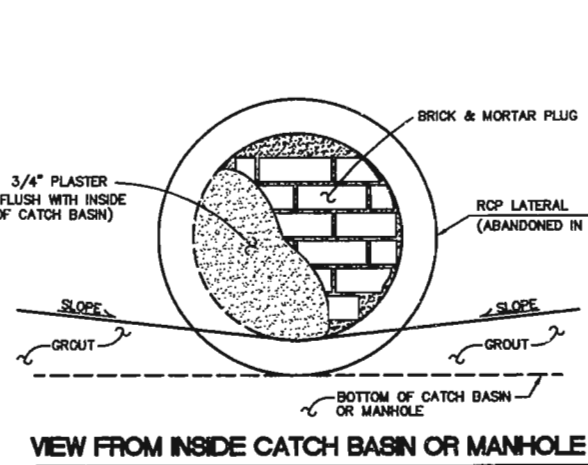
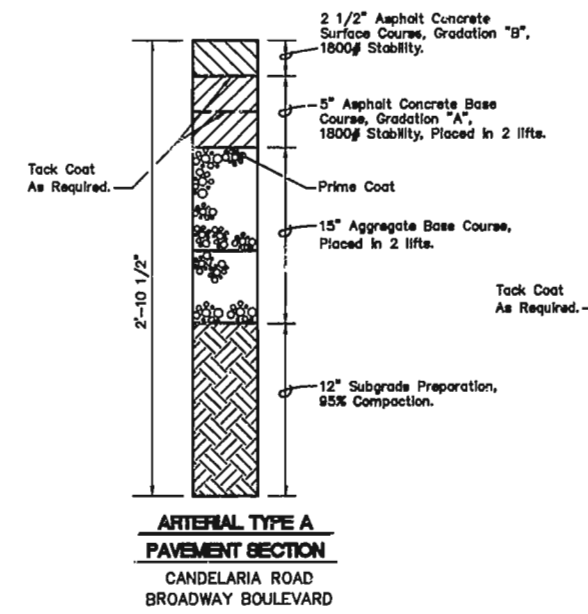
- CLASS III REINFORCED CONCRETE PIPE UNLESS NOTED OTHERWISE.
- ECCENTRIC PRE-CAST RCP TEE.
- 4' DIA. TYPE E MANHOLE PER C.O.A. STD. DWG. 2102, EXCLUDING BASE.
- 18" MINIMUM.
- SPRING LINE
- MANHOLE STEP
- CLASS A CONCRETE CRADLE. CONST. CRADLE AT MH TEE ONLY. CRADLE TO BE INSTALLED UNDER FULL LENGTH OF TEE SECTION. (7'-0" MIN.)



PLAN
TYPICAL 4' DIA. MANHOLE ON PRE CAST ECCENTRIC RCP TEE SECTION

SECTION
TYPICAL 4' DIA. MANHOLE ON PRE CAST ECCENTRIC RCP TEE SECTION

NOT TO SCALE



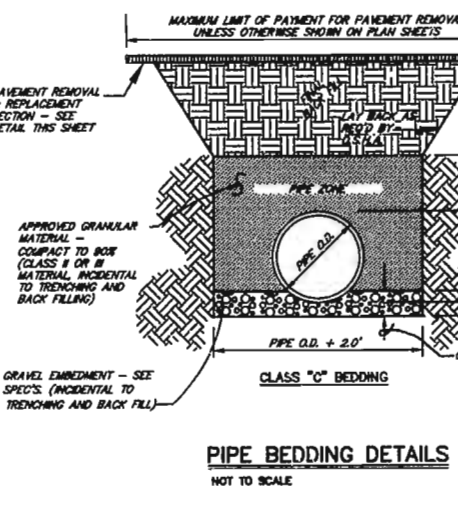
TYPICAL ROADWAY REPLACEMENT SECTION

N.T.S.

SIDE HILL	SLOPE A	SLOPE B
0.00'	2.36 %	2.36 %
0.10'	2.71 %	2.00 %
0.20'	3.07 %	1.64 %
0.30'	3.43 %	1.29 %
0.40'	3.79 %	0.93 %
0.50'	4.14 %	0.58 %
0.60'	4.50 %	0.21 %

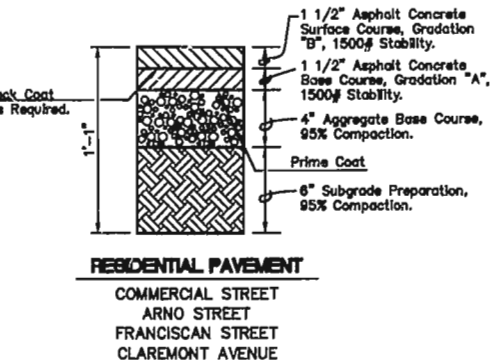
PIPE BEDDING NOTES

- MINIMUM "d" SHALL BE 3" FOR 27" AND SMALLER RCP AND 4" FOR 30" AND LARGER RCP.
- FOR REASONS OF TRAFFIC CONTROL, MAXIMUM LIMIT OF PAYMENT FOR REMOVAL & REPLACEMENT OF PAVEMENT SHALL NOT BE EXCEEDED IN PAVED AREAS. SHORING AND/OR OTHER PROTECTIVE MEASURES WILL BE REQUIRED TO MEET O.S.H.A. REQUIREMENTS. TRENCHES MAY BE "LAID BACK" IN UNPAVED AREAS, EXCEPT WHERE NOTED OTHERWISE.
- CONTRACTOR SHALL PROVIDE A TRENCH DESIGN BY A REGISTERED PROFESSIONAL ENGINEER FOR ANY TRENCH 20' OR GREATER IN DEPTH.
- CONTRACTOR IS HEREBY MADE AWARE THAT THERE MAY BE CERTAIN LOCATIONS ON THE PROJECT WHERE CLASS II, CLASS III OR BETTER MATERIAL MAY NOT BE AVAILABLE FOR USE AS PIPE ZONE BACK FILL MATERIAL. ANY IMPORTATION OF SUITABLE AND ACCEPTABLE MATERIAL THAT MAY BE REQUIRED FOR THE PIPE ZONE BACK FILL, INCLUDING THE REMOVAL OF EXISTING MATERIAL FROM THE SITE, SHALL BE PAID UNDER BID ITEM No. 27. AT THE CONTRACTOR'S OPTION, "LEAN FILL" MAY BE USED IN PLACE OF THE "APPROVED GRANULAR MATERIAL", AT NO ADDITIONAL COST TO THE CITY. A COPY OF THE GEOTECHNICAL REPORT IS AVAILABLE IN THE ENGINEER'S OFFICE.



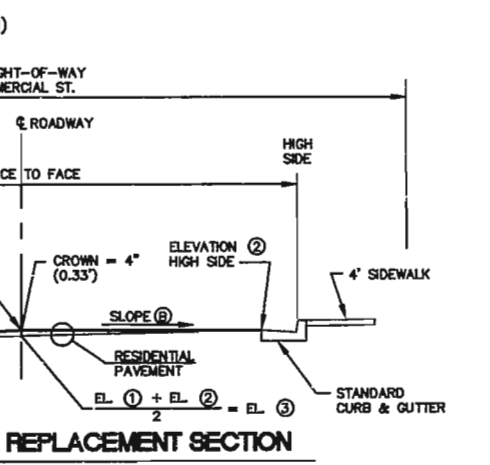
PIPE BEDDING DETAILS

NOT TO SCALE



RESIDENTIAL PAVEMENT

COMMERCIAL STREET
ARNO STREET
FRANCISCAN STREET
CLAREMONT AVENUE



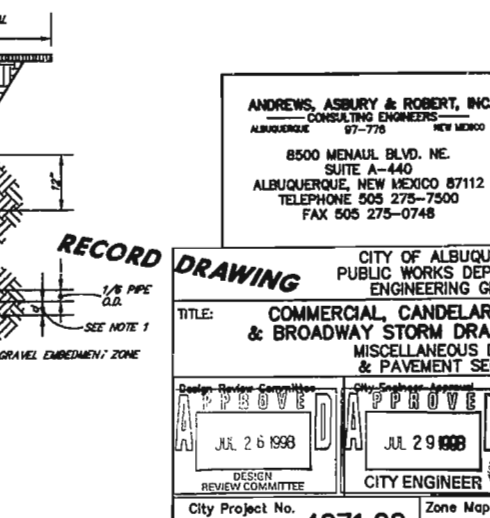
TYPICAL ROADWAY REPLACEMENT SECTION

N.T.S.

SIDE HILL	SLOPE A	SLOPE B
0.00'	2.36 %	2.36 %
0.10'	2.71 %	2.00 %
0.20'	3.07 %	1.64 %
0.30'	3.43 %	1.29 %
0.40'	3.79 %	0.93 %
0.50'	4.14 %	0.58 %
0.60'	4.50 %	0.21 %

PIPE BEDDING NOTES

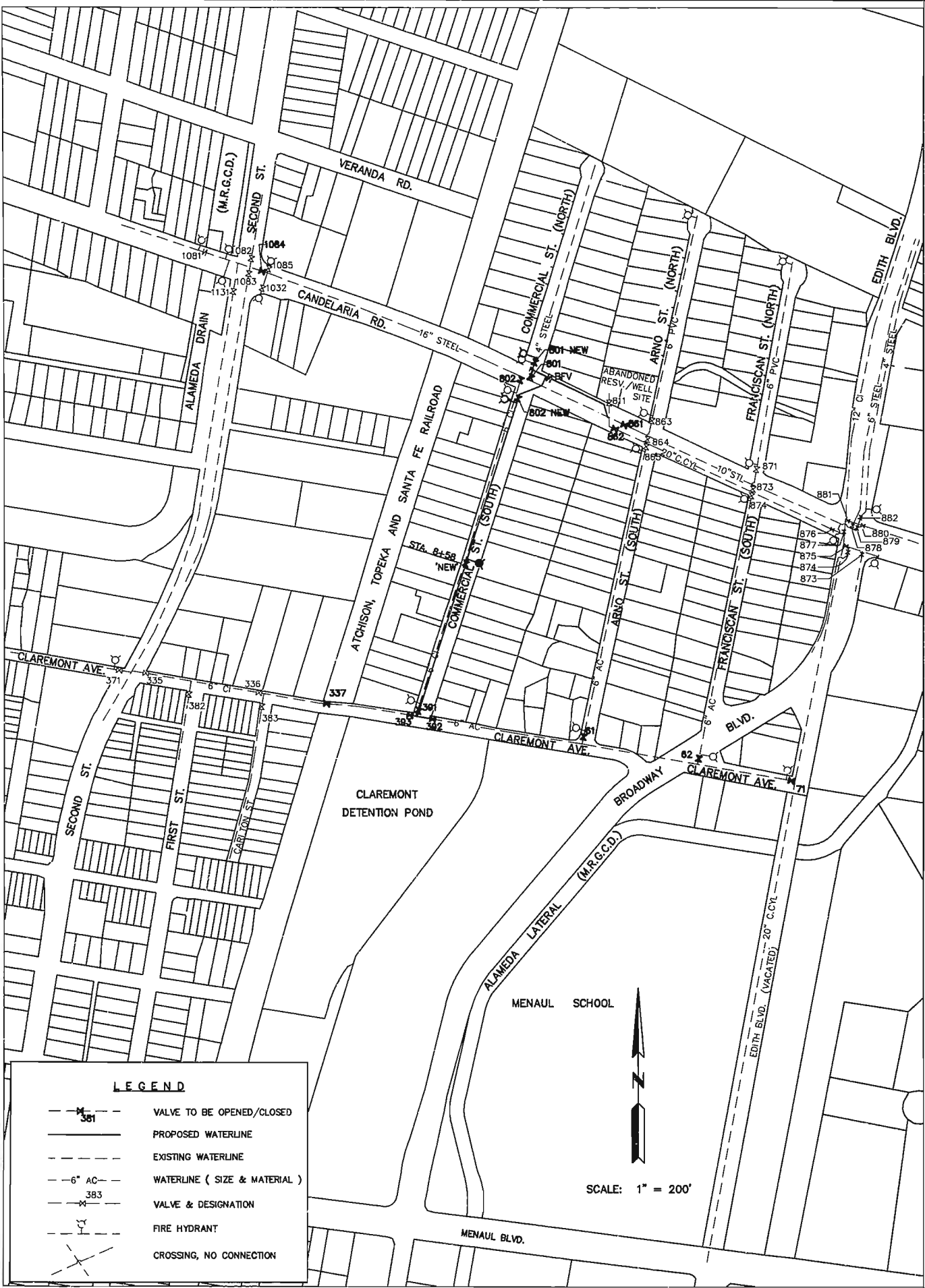
- MINIMUM "d" SHALL BE 3" FOR 27" AND SMALLER RCP AND 4" FOR 30" AND LARGER RCP.
- FOR REASONS OF TRAFFIC CONTROL, MAXIMUM LIMIT OF PAYMENT FOR REMOVAL & REPLACEMENT OF PAVEMENT SHALL NOT BE EXCEEDED IN PAVED AREAS. SHORING AND/OR OTHER PROTECTIVE MEASURES WILL BE REQUIRED TO MEET O.S.H.A. REQUIREMENTS. TRENCHES MAY BE "LAID BACK" IN UNPAVED AREAS, EXCEPT WHERE NOTED OTHERWISE.
- CONTRACTOR SHALL PROVIDE A TRENCH DESIGN BY A REGISTERED PROFESSIONAL ENGINEER FOR ANY TRENCH 20' OR GREATER IN DEPTH.
- CONTRACTOR IS HEREBY MADE AWARE THAT THERE MAY BE CERTAIN LOCATIONS ON THE PROJECT WHERE CLASS II, CLASS III OR BETTER MATERIAL MAY NOT BE AVAILABLE FOR USE AS PIPE ZONE BACK FILL MATERIAL. ANY IMPORTATION OF SUITABLE AND ACCEPTABLE MATERIAL THAT MAY BE REQUIRED FOR THE PIPE ZONE BACK FILL, INCLUDING THE REMOVAL OF EXISTING MATERIAL FROM THE SITE, SHALL BE PAID UNDER BID ITEM No. 27. AT THE CONTRACTOR'S OPTION, "LEAN FILL" MAY BE USED IN PLACE OF THE "APPROVED GRANULAR MATERIAL", AT NO ADDITIONAL COST TO THE CITY. A COPY OF THE GEOTECHNICAL REPORT IS AVAILABLE IN THE ENGINEER'S OFFICE.



PIPE BEDDING DETAILS

NOT TO SCALE

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR: Condore Const. Co.	DATE: 1/1/99	STA. 1147-11	DATE: 1/1/99	NO. 1	DATE: 1/1/99	BY: [Signature]	DATE: 1/1/99
DESIGNED BY: [Signature]	DATE: 1/1/99	NO. 2	DATE: 1/1/99	NO. 3	DATE: 1/1/99	BY: [Signature]	DATE: 1/1/99
CHECKED BY: [Signature]	DATE: 1/1/99	NO. 4	DATE: 1/1/99	NO. 5	DATE: 1/1/99	BY: [Signature]	DATE: 1/1/99
RECORDED BY: [Signature]	DATE: 1/1/99	NO. 6	DATE: 1/1/99	NO. 7	DATE: 1/1/99	BY: [Signature]	DATE: 1/1/99
MICRO-FILM INFORMATION		REVISIONS		REVISIONS		REVISIONS	
DATE: 1/1/99	DATE: 1/1/99	NO. 1	DATE: 1/1/99	NO. 2	DATE: 1/1/99	NO. 3	DATE: 1/1/99
NO. 4	DATE: 1/1/99	NO. 5	DATE: 1/1/99	NO. 6	DATE: 1/1/99	NO. 7	DATE: 1/1/99
CITY OF ALBUQUERQUE		PUBLIC WORKS DEPARTMENT		ENGINEERING GROUP		TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS MISCELLANEOUS DETAILS & PAVEMENT SECTIONS	
DESIGN REVIEW COMMITTEE		CITY ENGINEER		No. / Day / Yr.		No. / Day / Yr.	
JUL 26 1998		JUL 29 1998		JUL 26 1998		JUL 29 1998	
City Project No. 4271.92		Zone Map No. G-15, H-15		Sheet 21		Of 39	



WATER SHUT OFF PLAN

STEP 1: REMOVE AND REPLACE WATERLINE IN COMMERCIAL ST.

INSTALL TEMPORARY WATER SERVICE MAINS (SHOOFLES) AND TRANSFER ALL WATER SERVICES, OR OTHERWISE PROVIDE TEMPORARY WATER SERVICE, FOR ALL RESIDENTS ALONG COMMERCIAL ST. BETWEEN CLAREMONT AVE. AND CANDELARIA RD.

NOTIFY THE CITY OF ALBUQUERQUE WATER DEPARTMENT (PHONE 857-8200) FIVE (5) WORKING DAYS PRIOR TO ACTUAL SHUT OFF OF WATER IN COMMERCIAL ST. (THREE FIRE HYDRANTS WILL BE OUT OF SERVICE). CLOSE VALVE 802 IN THE INTERSECTION OF COMMERCIAL ST. AND CANDELARIA RD. CLOSE VALVES 337, 61, 62, AND 71 ON CLAREMONT AVE. BETWEEN THE CARLTON ST. AND EDITH BLVD. WHEN ALL VALVES ARE CLOSED, REMOVE VALVES 392, AND 393 AT THE INTERSECTION OF CLAREMONT AVE. AND COMMERCIAL ST., AND THE EXISTING WATERLINE AND TEE AND ANY OTHER FITTINGS BETWEEN THEM. INSTALL TWO (2) NEW VALVES AT THE SAME LOCATIONS AS THE TWO REMOVED. INSTALL NEW 6" WATERLINE WITH A NEW 6" TEE BETWEEN THE NEW VALVES. RESTRAIN ALL JOINTS. CLOSE NEW VALVES 392 AND 393, AND FLUSH AND DISINFECT THE CLAREMONT LINES TO THE EAST AND WEST. RETURN THE CLAREMONT AVE. WATERLINES TO SERVICE BY OPENING ALL OTHER VALVES ON CLAREMONT AVE. CLOSED ABOVE. TWO FIRE HYDRANTS STILL REMAIN OUT OF SERVICE VALVE 802 IN THE INTERSECTION OF CANDELARIA RD. AND COMMERCIAL ST. AND VALVES 392 & 393 MUST REMAIN CLOSED. THIS INSTALLATION IS TO PROVIDE THRUST RESTRAINT FOR NEW VALVES 392 & 393. THE CONTRACTOR SHALL SUPPORT THE NEW PIPE AND WORK UNDER IT TO INSTALL THE NEW SD & SAS. REMOVAL AND REPLACEMENT OF THE 6" WATERLINE IN COMMERCIAL ST. MAY NOW PROCEED THROUGH EACH WORK ZONE AS THE INSTALLATION OF THE NEW STORM DRAIN PROGRESSES. AS SOON AS NEW VALVE 391 HAS BEEN INSTALLED, FLUSHED AND DISINFECTED, CLOSE IT AND OPEN VALVES 392 AND 393. NOTE THAT THE ORIGINAL 5" GALVANIZED WATERLINE IN COMMERCIAL ST. MAY BE FOUND ABANDONED IN PLACE. IF ENCOUNTERED, REMOVE AND DISPOSE OF IT, AS WELL AS THE 6" CAST IRON WATERLINE.

WHEN THE NEW STORM DRAIN AND THE REPLACEMENT SANITARY SEWER HAVE BEEN COMPLETED IN A WORK ZONE ALONG COMMERCIAL ST., THE REPLACEMENT 6" WATERLINE SHALL BE INSTALLED ALONG WITH THE NEW SERVICE LINES. THE SERVICE LINES ARE TO BE TEMPORALLY CAPPED AT THE METERS. AS SOON AS THE VALVE AT STA. 8+58 ("NEW") HAS BEEN INSTALLED, FLUSH AND DISINFECT THE NEW WATERLINE. CLOSE VALVE "NEW" AND OPEN NEW VALVE 391. THE FIRE HYDRANT AT THE CORNER OF CLAREMONT AVE. AND COMMERCIAL ST. WILL NOW BE BACK IN SERVICE. WHEN THE VALVE AT THE CURB RETURN AT CANDELARIA RD. (NEW VALVE 802) HAS BEEN INSTALLED, FLUSH, DISINFECT AND OPEN VALVE "NEW" TO PLACE THE NEW WATERLINE IN SERVICE. NEW VALVE 802 AND OLD VALVE 802 AT CANDELARIA RD. AND COMMERCIAL ST. MUST REMAIN CLOSED AT THIS TIME. DO NOT REMOVE THE EXISTING LINE IN CANDELARIA RD. UNTIL OLD VALVE 802 HAS BEEN BLOCKED. TRANSFER ALL CUSTOMERS TO THE NEW SERVICE LINES. THE TEMPORARY SERVICE MAINS SHALL NOW BE REMOVED. ALL FIRE HYDRANTS WILL BE IN SERVICE.

STEP 2: INSTALLATION OF 16" MAIN IN CANDELARIA RD.

CONTINUE THE INSTALLATION OF THE NEW 6" WATERLINE AND BEGIN THE INSTALLATION OF THE NEW 16" WATERLINE AS CONSTRUCTION OF THE STORM DRAIN PROGRESSES ACROSS CANDELARIA RD. BLOCK OLD VALVE 802 AND REMOVE THE VALVE BOX. REMOVE EXISTING WATERLINE(S) FROM COMMERCIAL ST. (SOUTH) FROM THE EXISTING STORM DRAIN MANHOLE TO OLD VALVE 802 AT THE 16" STEEL WATERLINE AT THE CENTERLINE OF CANDELARIA RD. PATCH THE HOLES IN THE MANHOLE, PLUG THE VALVE AND ABANDON IT IN PLACE. DO NOT MAKE CONNECTIONS TO THE EXISTING 16" STEEL WATERLINE OR TO THE WATERLINE IN COMMERCIAL ST. (NORTH) AT THIS TIME.

CONTINUE THE INSTALLATION OF THE NEW 16" WATERLINE ALONG THE NORTH SIDE OF CANDELARIA RD. CONTACT THE CITY OF ALBUQUERQUE WATER DEPARTMENT FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONNECTION OPERATIONS. WHEN THE INSTALLATION OF THE NEW 16" WATERLINE HAS BEEN COMPLETED AS FAR AS POSSIBLE, CLOSE VALVE 1084 JUST EAST OF THE SECOND ST. / CANDELARIA RD. INTERSECTION, VALVE 801 AT COMMERCIAL ST. (NORTH) AND VALVES 861 & 862 IN CANDELARIA RD. NEAR STA. 4+70 (CL & 30' RT.). NEW VALVE 802 AT THE CURB RETURN ABOVE TO REMAIN CLOSED. NOTE THAT ALL OF COMMERCIAL ST. (NORTH) AND SEVERAL CUSTOMERS ALONG CANDELARIA RD. AND THREE FIRE HYDRANTS ARE NOW OUT OF SERVICE. MAKE CONNECTIONS TO THE EXISTING 16" STEEL WATERLINE AT STA. 1+02 AND STA. 4+03, AND TO THE EXISTING WATERLINE IN COMMERCIAL ST. (NORTH). OPEN THE NEW BUTTERFLY VALVE AT STA. 1+33, 28' RT.

FLUSH AND DISINFECT THE NEW LINES. WHEN DISINFECTION IS COMPLETE, OPEN VALVE 1084 EAST OF SECOND ST. INTERSECTION, NEW VALVES 801 & 802 ON COMMERCIAL ST. (NORTH & SOUTH) AND VALVES 861 & 862 NEAR STA. 4+70. THE OLD 16" STEEL WATERLINE BETWEEN THE CONNECTION POINTS MAY NOW BE REMOVED AS CONSTRUCTION OF THE OF THE NEW STORM DRAIN PROGRESSES.

NOTE:
WATER SHUTOFFS ON THE 16" & 20" WATERLINES MAY NOT BE PERMITTED DUE TO THE MORATORIUM FROM MAY THROUGH SEPTEMBER. (SEE SECTION 18.3.6 IN THE COA STANDARD SPECS.) THE CONTRACTOR SHALL COORDINATE WITH THE WATER UTILITY DIVISION.

RECORD DRAWING

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE 87-775 NEW MEXICO
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS
WATER SHUT OFF PLAN

Design Review Committee	City Engineer Approval	No./Day/Yr.	No./Day/Yr.
APPROVED JUL 26 1998	APPROVED JUL 29 1998		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
City Project No. 4271.92	Zone Map No. G-15, H-15	Sheet 22	Of 39

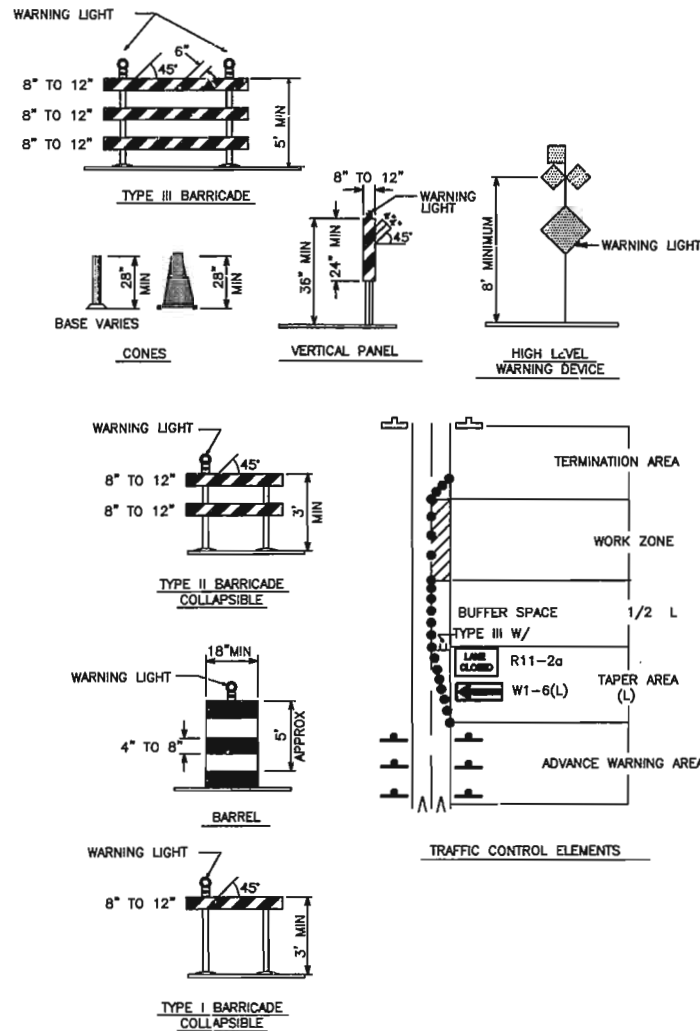
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	Condore Const. Co.	STA. NM47-11		FIELD NOTES			
DRAWN BY	Walker Survey	NMHC BRASS TABLET SET IN TOP OF A CONCRETE		NO.	DATE		
CHECKED BY	Walker Survey	POST FLUSH WITH THE GROUND LOCATED IN THE		1			
DATE	8/1/98	MEDIAN OF THE 3200 BLOCK OF SECOND STREET, NW.		2			
DATE	8/1/98	APPROXIMATELY 400 FEET SOUTH OF MILDRED AVE.		3			
DATE	8/1/98	ELEV. 4968.533		4			
DATE	8/1/98			5			
DATE	8/1/98			6			
DATE	8/1/98			7			

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

- CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.
- CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.
- THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.
- CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.
- CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.
- ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
- THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.
- CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.
- ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.
- ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.
- ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.
- EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.
- CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.
- CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.
- ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
- 48 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.
- ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

- EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.
- CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
 - STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
 - THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
 - SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.
- FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.
- ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION, WASHING OF EQUIPMENT IS INCIDENTAL TO ITS PLACEMENT AND MAINTENANCE.
- TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

- ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.
- CONTRACTOR SHALL MAINTAIN A GRAFTTI-FREE WORKSITE. ALL GRAFTTI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.
- TEMPORARY STRIPING AND REMOVAL OF SAME SHALL BE INCIDENTAL TO THE TRAFFIC CONTROL BID ITEM.



LEGEND

- WORK AREA
 - BARRICADE - TYPE I, TYPE II, OR BARREL
 - BARRICADE - TYPE III
 - VERTICAL PANEL
 - WARNING SIGN
 - DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
 - FLAGMAN POSITION
 - SPACING BETWEEN BARRICADES - A DISTANCE MEASURED IN FEET EQUAL TO THE STREET LIMIT OF THE STREET
 - TAPER LENGTH - SEE CHART BELOW
- THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

TAPER REQUIREMENT

SPEED LIMIT (MPH)	TAPER LENGTH(L) (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

SPEED LIMIT (MPH)	MINIMUM DISTANCE BETWEEN SIGNS	FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

TAPER CRITERIA

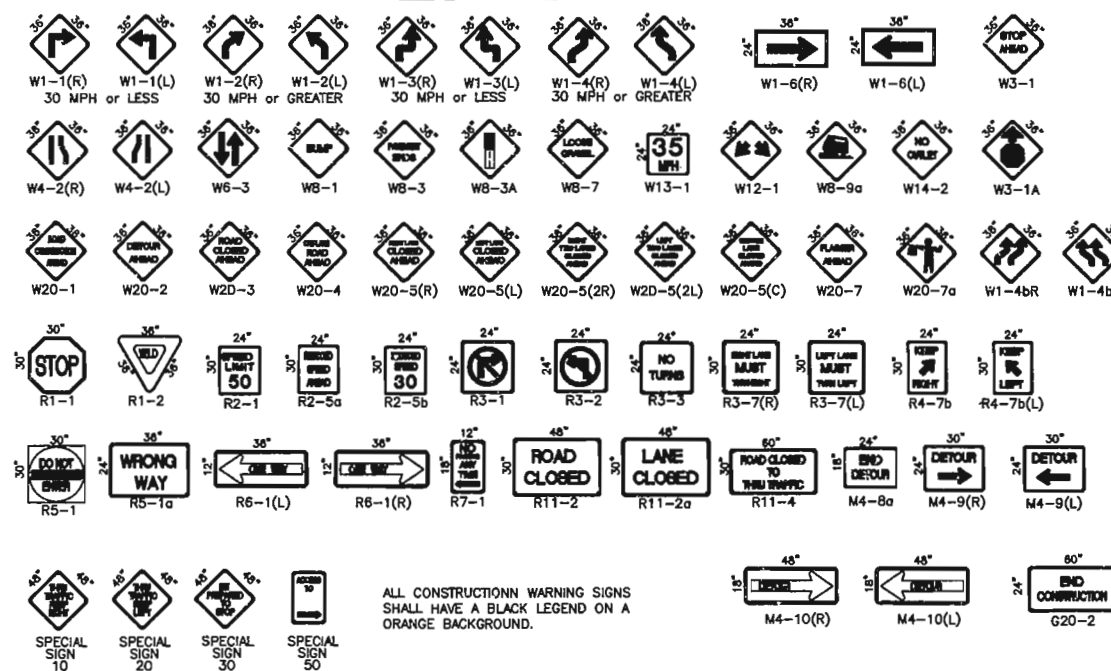
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSIDE TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT	L = WS ² / 60
40 MPH OR LESS	
40 MPH OR GREATER	L = W x S

L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH

SIGN FACE DETAILS



ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

RECORD DRAWING

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: TRAFFIC CONTROL
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

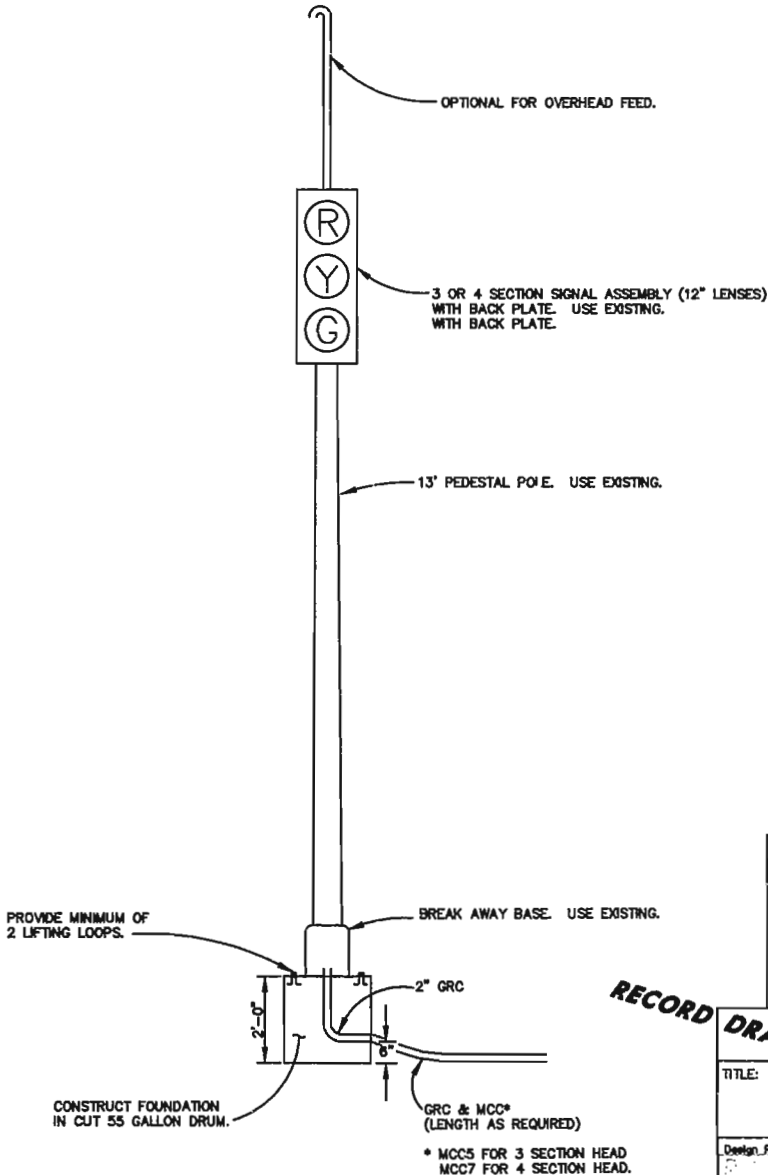
DESIGN REVIEW COMMITTEE: JUL 26 1998
CITY ENGINEER APPROVAL: JUL 29 1998

MO./DAY/YR. SHEET 23 OF 29

CITY PROJECT NO. 4271.92 ZONE MAP NO. G-15,H-15

TRAFFIC CONTROL GENERAL NOTES

1. THE CONTRACTOR SHALL REMEDY UNSAFE CONSTRUCTION TRAFFIC CONTROL CONDITIONS IMMEDIATELY UPON DISCOVERY OR NOTIFICATION.
2. TEMPORARY TRAFFIC CONTROL STRIPING NEED NOT BE PLACED WHERE THE DURATION OF THE TRAFFIC CONTROL STEP IS LESS THAN SEVEN CALENDAR DAYS AND TRAFFIC CONTROL REQUIREMENTS CAN BE CLEARLY DELINEATED BY OTHER MEANS.
3. CONTRACTOR SHALL SWEEP ROADWAY SHOULDERS, MEDIAN CROSSINGS AND DETOURS FREE OF DEBRIS BEFORE ROUTING TRAFFIC ONTO SHOULDERS AND DETOURS.
4. ALL COST FOR CONSTRUCTION TRAFFIC CONTROL INCLUDING BUT NOT LIMITED TO COORDINATION, PLANNING, SCHEDULING, WORK DURING OFF-HOURS, SETUPS, RESETS, MAINTENANCE, TAKEDOWNS, FLAGGERS, STRIPING, STRIPING REMOVAL, SIGNS, BARRICADES, BARRELS, POSTS, BASES, TRAFFIC CONTROL, FENCING, CONCRETE BARRIERS, CRASH CUSHIONS, TEMPORARY PAVEMENT REMOVAL AND DISPOSAL, PLATING, PATCHING, DETOUR SIGNS, ETC., SHALL BE INCLUDED IN THE LUMP SUM BID FOR CONSTRUCTION TRAFFIC CONTROL. PHASE PLANS ARE MINIMUM TRAFFIC CONTROL. FIELD ADJUSTMENTS WILL BE NECESSARY AS PARTICULAR WORK IS DONE. MODIFICATIONS ARE INCLUDED IN BID ITEM NO. 4. BUSINESS ACCESS SIGNS SHALL BE ADDITIONAL TO TRAFFIC CONTROL AND WILL BE PAID FOR UNDER BID ITEM NO. 5.
5. ALL NON-APPLICABLE SIGNING (E.G. SPEED LIMIT) SHALL BE REMOVED OR COVERED COMPLETELY WITH AN OPAQUE NON LIGHT-TRANSMITTING MATERIAL. ALL REMAINING NON-APPLICABLE TRAFFIC CONTROL DEVICES ARE TO BE REMOVED AND STORED AT LOCATIONS DESIGNATED BY THE OWNER.
6. THE CONTRACTOR SHALL PREPARE A DETAILED PATH PROJECT SCHEDULE FOR THE PROJECT BEFORE BEGINNING CONSTRUCTION. THIS SCHEDULE SHALL BE SUBMITTED TO THE CITY'S CONSTRUCTION COORDINATOR FOR REVIEW, COMMENTS, AND APPROVAL. THE SCHEDULE WILL BE USED FOR ESTABLISHING MAJOR CONSTRUCTION OPERATIONS AND FOR DETERMINING THE PROGRESS OF THE WORK. SHOULD IT BECOME APPARENT TO THE PROJECT MANAGER OR THE CONTRACTOR THAT THE CONTRACTOR WILL NOT BE ABLE TO MEET THE REQUIREMENTS OF THE SCHEDULE, THE CONTRACTOR SHALL SUBMIT A REVISED SCHEDULE REFLECTING THE ACTUAL AUTHORIZED TIME LEFT, FOR REVIEW AND APPROVAL. REQUESTS FOR TIME EXTENSIONS MADE BY THE CONTRACTOR WILL BE COMPARED TO THE CRITICAL PATH AND APPROVED WITH OR DENIED ON THIS BASIS. THE CONTRACTOR SHALL UPDATE THE SCHEDULE MONTHLY AND THE MONTHLY PAYMENT REQUEST.
7. IT IS ESTIMATED THAT 40 BUSINESS ACCESS SIGNS WILL BE REQUIRED DURING THE LIFETIME OF THIS PROJECT.

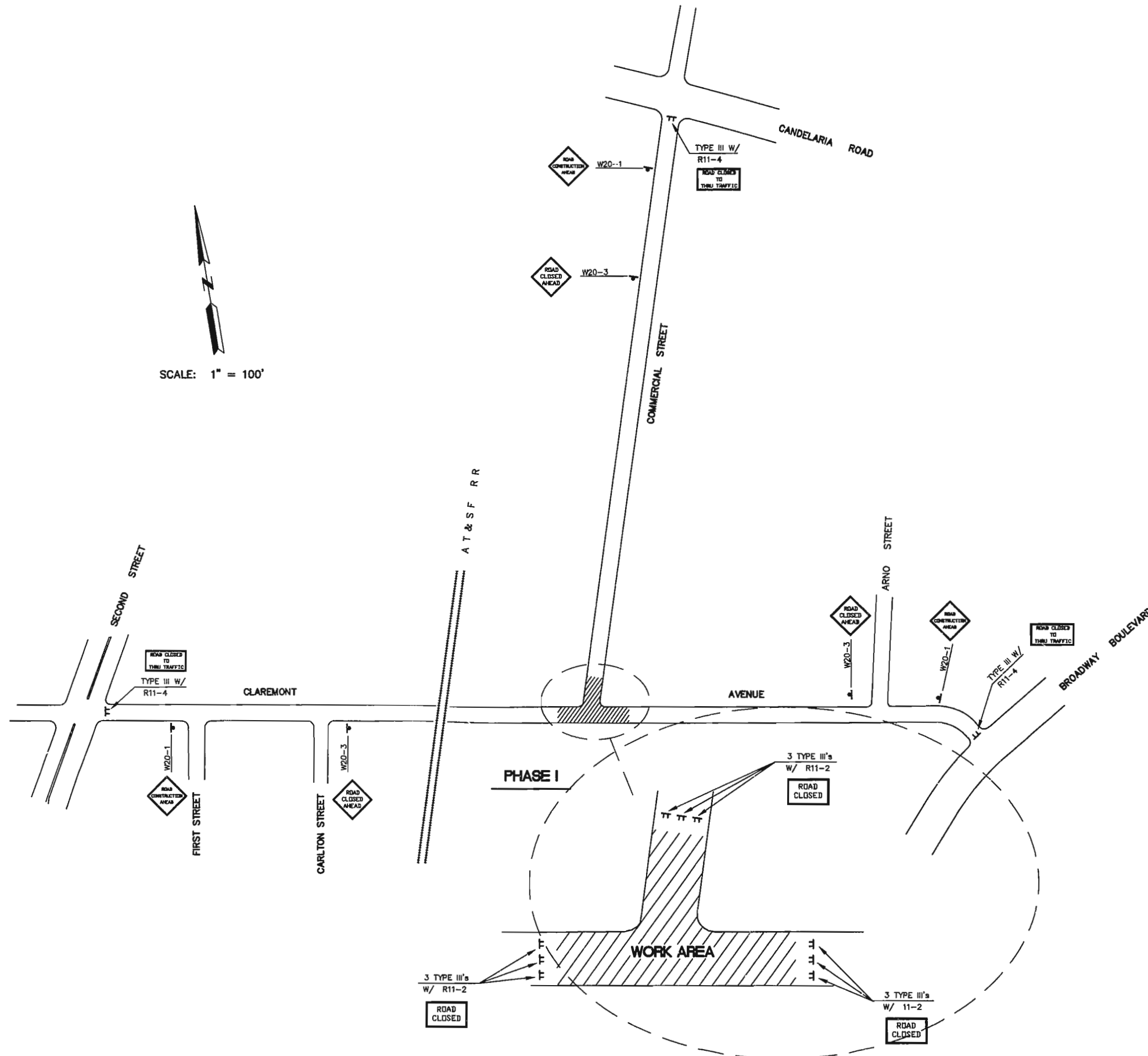


EACH 3" TRAFFIC SIGNAL CONDUIT SHALL CONTAIN:

- 2 - 20 MCC CABLES
- 1 - 7 MCC CABLE
- 1 - #6 SINGLE CONDUCTOR (WHITE)
- 1 - #6 BARE COPPER GROUND WIRE (STRANDED)

TEMPORARY SIGNAL DATA
SCALE: 1"=2'-0"

RECORD DRAWING	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP		4	3	2	1	NO	DESIGN	DRAWN	CHECKED
	TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENT TRAFFIC CONTROL GENERAL NOTES									
	Design Review Committee	City Engineer Approval	Mo./Day/Yr.		Mo./Day/Yr.					
			Mo./Day/Yr.	Mo./Day/Yr.						
			Mo./Day/Yr.	Mo./Day/Yr.						
Mo./Day/Yr.			Mo./Day/Yr.							
City Project No.	Zone Map No.	Sheet		Of						
4271 92	C-15A-15	25		30						



- PHASE I TRAFFIC CONTROL NOTES:**
1. THE INTERSECTION OF CLAREMONT AVENUE AND COMMERCIAL STREET SHALL BE CLOSED FOR THE INSTALLATION OF THE STORM DRAIN, FORCE MAINS, WATERLINE, SANITARY SEWER AND PAVING ITEMS.
 2. LOCAL TRAFFIC ON CLAREMONT AVENUE TO BE ROUTED TO SECOND STREET AND BROADWAY BOULEVARD.
 3. LOCAL TRAFFIC ON COMMERCIAL STREET TO BE ROUTED TO CANDELARIA ROAD.
 4. ACCESS TO ADJACENT PROPERTIES TO BE PROVIDED AT ALL TIMES.
 5. ALL TRENCH WORK SHALL BE BARRICADED WITH BARRELS AT 15 FOOT INTERVALS (MAX.) WITH FLAGGING AND FLASHING LIGHTS PARALLEL TO THE TRENCH. ANY ADDITIONAL BARRICADING AND/OR ADJUSTMENTS SHALL BE MADE UNDER THE SUPERVISION OF THE CITY OF ALBUQUERQUE'S CONSTRUCTION COORDINATION DIVISION.
 6. WORK IN THIS PHASE SHALL BE COMPLETED AND OPENED TO TRAFFIC ON CLAREMONT AVENUE BEFORE PHASE II IS STARTED.

ANDREWS, ASBURY & ROBERT, INC.
 CONSULTING ENGINEERS
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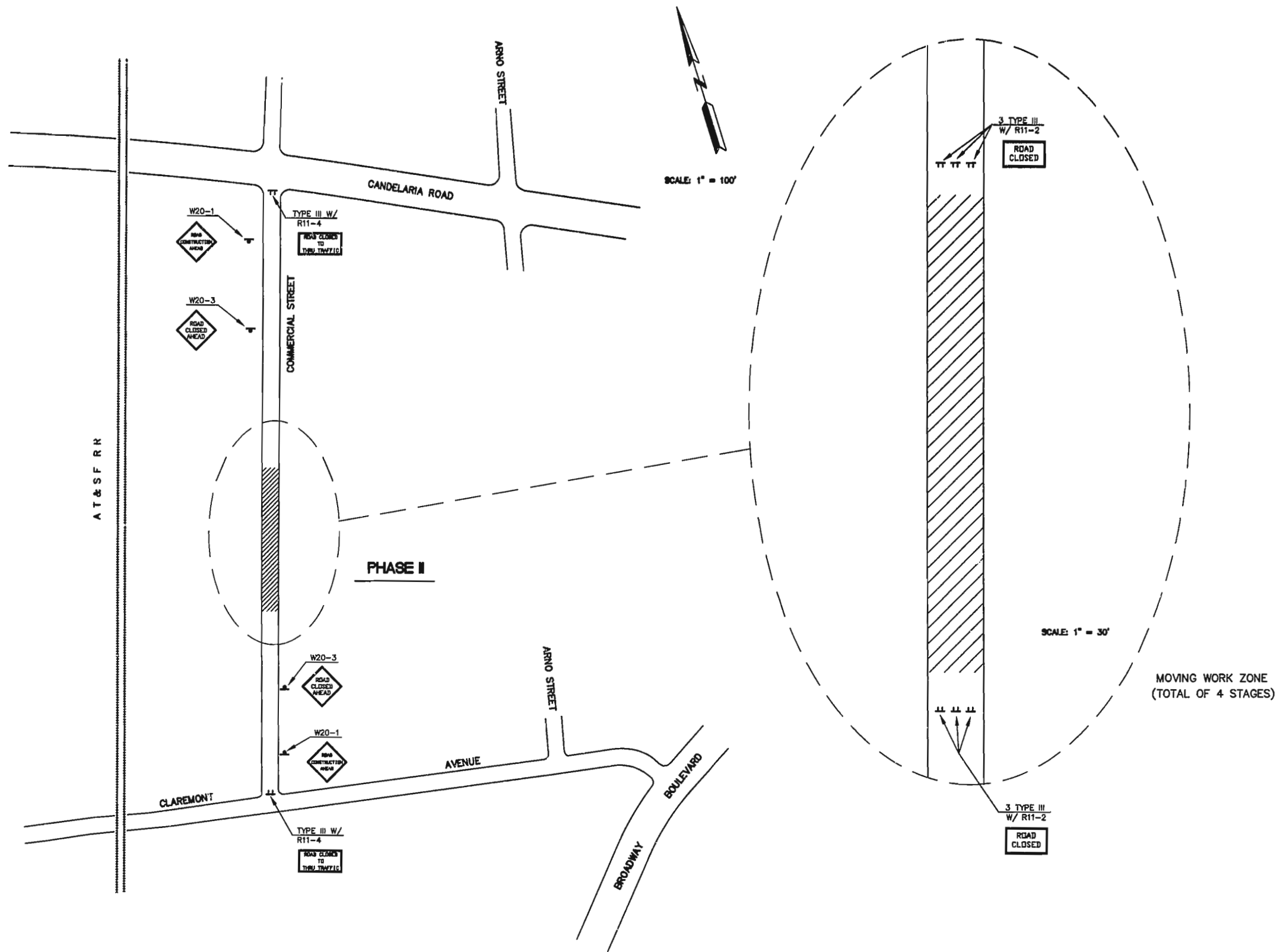
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CITY OF ALBUQUERQUE
 PUBLIC WORKS DEPARTMENT
 ENGINEERING GROUP

TITLE: **COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS**
 PHASE I
 CONSTRUCTION TRAFFIC CONTROL

Design-Review Committee	City Engineer	No./Day/Yr.
JUL 26 1998	JUL 29 1998	
City Engineer	CITY ENGINEER	
City Project No.	Zone Map No.	Sheet
4271.92	G-15,H-15	26 Of 39

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS	
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PHASE II TRAFFIC CONTROL NOTES:

1. PHASE II SHALL INCLUDE A FOUR (4) STAGE MOVING WORK ZONE FOR THE CONSTRUCTION OF IMPROVEMENTS IN COMMERCIAL STREET BETWEEN CLAREMONT AVENUE AND CANDELARIA ROAD.
2. A MAXIMUM WORK ZONE LENGTH SHALL BE 300 FEET AND SHALL PROGRESS FROM CLAREMONT AVENUE NORTH.
3. NO MORE THAN 300 FEET OF PAVEMENT SHALL BE REMOVED AT ANY ONE TIME.
4. ACCESS TO EXISTING REMOVEDS AND BUSINESSES TO BE MAINTAINED TO THE EXTENT POSSIBLE EXCEPT WHEN CONSTRUCTION IS DIRECTLY IN FRONT OF AFFECTED PROPERTY.
5. ACCESS TO THE DAY CARE LOCATED AT 2813 COMMERCIAL STREET, NW, SHALL BE PROVIDED AT ALL TIMES. DURING THE TIME WHEN CONSTRUCTION PASSES DIRECTLY IN FRONT OF THIS LOCATION, A TEMPORARY ACCESS FROM CLAREMONT AVE. WILL BE PROVIDED AND MAINTAINED BY CONTRACTOR ACROSS THE LOTS TO THE SOUTH OF THE DAY CARE. THE CITY OF ALBUQUERQUE SHALL BE RESPONSIBLE FOR OBTAINING THE ACCESS EASEMENTS FROM THE PROPERTY OWNERS FOR THIS TEMPORARY ACCESS.
6. ROUTE LOCAL TRAFFIC ON COMMERCIAL STREET TO CLAREMONT AVENUE OR TO CANDELARIA ROAD.
7. THE CONTRACTOR SHALL LIMIT TRENCH WIDTH TO FIT BETWEEN LIP OF GUTTER TO LIP OF GUTTER. EXISTING CURB & GUTTER AND SIDEWALK SHALL NOT BE REMOVED. A TRENCH SYSTEM SHALL BE USED TO MEET THE ABOVE RESTRAINTS AND ALL OSHA REQUIREMENTS.
8. A TEMPORARY WATER SYSTEM WILL BE REQUIRED TO PROVIDE WATER SERVICE TO RESIDENTS DURING CONSTRUCTION. WATER SERVICE SHALL BE PROVIDED TO ALL USERS AT ALL TIMES DURING CONSTRUCTION.
9. BYPASS PUMPING OF SANITARY SEWER WILL BE REQUIRED REQUIRED AT ALL TIMES DURING THIS PHASE OF CONSTRUCTION.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF SANITARY SEWER LINES IN THE SAME VERTICAL LOCATIONS AS THE EXISTING.

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES		STA. 1147-11		CONDOR CONSTRUCTION Co. Condore Survey 11-1997 W. J. Jones	

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RECORD

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP
TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS
PHASE II
CONSTRUCTION TRAFFIC CONTROL

Design Review Committee	City Engineer	Mo./Day/Yr.	Mo./Day/Yr.
APPROVE JUL 26 1998 DESIGN REVIEW COMMITTEE	APPROVE JUL 29 1998 CITY ENGINEER		
City Project No.	Zone Map No.	Sheet	Of
4271.92	G-15,H-15	27	39



- PHASE III TRAFFIC CONTROL NOTES:**
1. COMMERCIAL STREET SHALL BE CLOSED SOUTH OF CANDELARIA ROAD THROUGHOUT THIS PHASE. COMMERCIAL STREET ACCESS SHALL BE VIA CLAREMONT AVENUE.
 2. COMMERCIAL STREET NORTH OF CANDELARIA ROAD SHALL REMAIN OPEN THROUGHOUT THIS PHASE, ALTHOUGH RESTRICTED TO "RIGHT IN / RIGHT OUT" TURNS ONLY.
 3. ACCESS TO ADJACENT PROPERTIES TO BE PROVIDED AT ALL TIMES.
 4. ALL TRENCH WORK SHALL BE BARRICADED WITH BARRELS AT 15 FOOT INTERVALS (MAXIMUM) WITH FLAGGING AND FLASHING LIGHTS PARALLEL TO THE TRENCH. ANY ADDITIONAL BARRICADE AND/OR ADJUSTMENTS SHALL BE MADE UNDER SUPERVISION OF THE CONSTRUCTION COORDINATION DIVISION OF THE CITY OF ALBUQUERQUE.
 5. BYPASS PUMPING OF SANITARY SEWER WILL CONTINUE TO BE REQUIRED FOR THE NEW SANITARY SEWER LINE IN COMMERCIAL STREET. ADDITIONALLY, BYPASS PUMPING WILL BE REQUIRED FOR THE INSTALLATION OF THE NEW SANITARY SEWER LINE IN CANDELARIA ROAD. WHEN BOTH NEW LINES HAVE BEEN CONNECTED TO THE EXISTING SANITARY SEWER MANHOLE WITHIN THIS PHASE AND THE NEW LINES HAVE BEEN CLEANED AND ARE FLOWING FREELY, ALL BYPASS PUMPING SHALL BE DISCONTINUED.
 6. ALL WORK WITHIN THIS PHASE, INCLUDING REPAVING, SHALL BE COMPLETED BEFORE ANY WORK IN PHASE IV IS STARTED.
 7. SPACING OF BARRELS AND VERTICAL PANELS SHALL BE TWENTY-FIVE FEET (25').
 8. THE CONTRACTOR SHALL COORDINATE WITH C.O.A. TRAFFIC ENGINEERING (857-5680) REGARDING THE LEFT TURN LANE CLOSURE AT SECOND STREET & CANDELARIA ROAD. THE "LEFT ON GREEN ARROW ONLY" CYCLE OF THE TRAFFIC SIGNAL SHALL BE CHANGED TO "PROTECTED PERMISSIVE LEFT TURN" STATUS AND THE "LEFT ON GREEN ARROW ONLY" SIGN REMOVED. THE SIGNAL SHALL REMAIN IN THIS STATUS THROUGHOUT THIS PHASE AND PHASE IV. THE CONTRACTOR SHALL AGAIN COORDINATE WITH C.O.A. TRAFFIC ENGINEERING AT THE END OF PHASE IV TO RETURN THE SIGNAL TO NORMAL OPERATION.

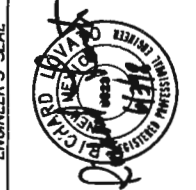
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DRAWING

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP**

**TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS
PHASE III
CONSTRUCTION TRAFFIC CONTROL**

DESIGN REVIEW COMMITTEE	DATE: 2.6.1998	APPROVE	DATE: 2.9.1998	CITY ENGINEER
CITY PROJECT NO.	4271.92	ZONE MAP NO.	G-15,H-15	SHEET 28 OF 39



ANDREWS, ASSURRY & ROBERT, INC.
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REVISIONS

DESIGN

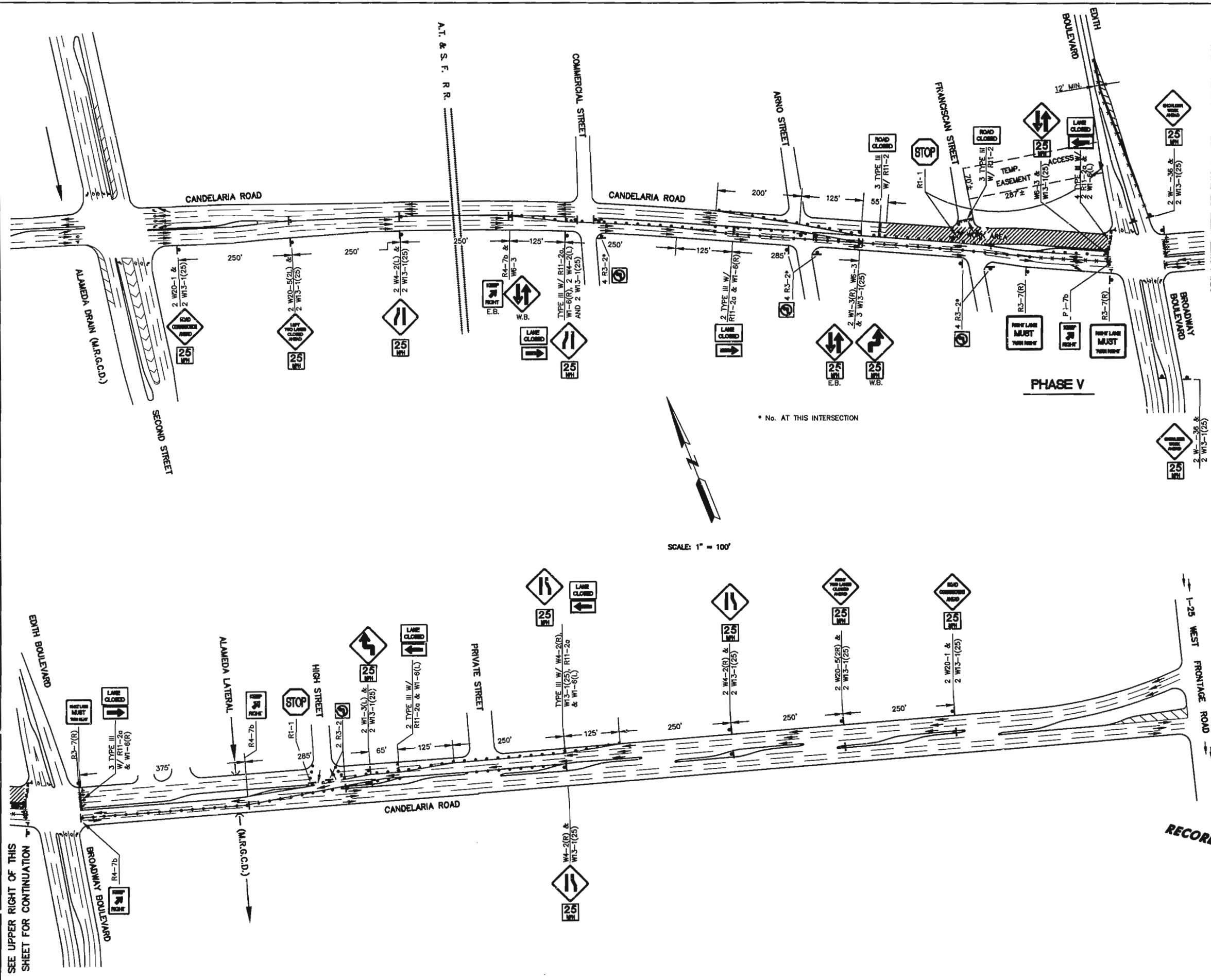
DATE: Dec., 1997

CHECKED BY: RL

DATE: Dec., 1997

DESIGNED BY: RL

DATE: Dec., 1997



PHASE V TRAFFIC CONTROL NOTES:

- FRANCISCO STREET (NORTH) TO REMAIN OPEN TO LOCAL TRAFFIC, EXCEPT DURING THE TIME THAT CONSTRUCTION IS CROSSING THIS INTERSECTION. DURING THIS TIME, THE CONTRACTOR SHALL MAINTAIN TWO WAY ACCESS FROM EDITH VIA AN EASEMENT THE CITY WILL PROVIDE. THE GRADING AND MAINTENANCE WILL BE PAID UNDER BID ITEM No. 128. ALL RESTORATION SHALL BE CONSIDERED INCIDENTAL TO "TRAFFIC CONTROL" AND NO SEPARATE PAYMENT WILL BE MADE THEREFOR.
- ACCESS TO ADJACENT PROPERTIES TO BE PROVIDED AT ALL TIMES.
- ALL TRENCH WORK SHALL BE BARRICADED WITH BARRELS AT 15 FOOT INTERVALS (MAXIMUM) WITH FLASHING AND FLASHING LIGHTS PARALLEL TO THE TRENCH. ANY ADJUSTMENTS SHALL BE MADE UNDER SUPERVISION OF THE CONSTRUCTION COORDINATION DIVISION OF THE CITY OF ALBUQUERQUE.
- ALL WORK WITHIN THE WEST HALF OF THIS PHASE, INCLUDING REPAVING, SHALL BE COMPLETED BEFORE ANY WORK IN PHASE VI IS STARTED.
- SPACING OF BARRELS AND VERTICAL PANELS SHALL BE TWENTY-FIVE FEET (25').
- TEMPORARY PAVEMENT WILL BE REQUIRED TO BE IN PLACE NB EDITH FOR NEXT PHASE, WEEKEND OR NIGHT CONST. SUGGESTED.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE
CONTRACTOR: Condore Const. Co.	DATE: 12/15/97	1		1		1	
DESIGNED BY: W. J. H. Survey	DATE: 12/15/97	2		2		2	
CHECKED BY: W. J. H. Survey	DATE: 12/15/97	3		3		3	
APPROVED BY: W. J. H. Survey	DATE: 12/15/97	4		4		4	
CONTRACTOR: W. J. H. Survey	DATE: 12/15/97	5		5		5	
DESIGNED BY: W. J. H. Survey	DATE: 12/15/97	6		6		6	
CHECKED BY: W. J. H. Survey	DATE: 12/15/97	7		7		7	
APPROVED BY: W. J. H. Survey	DATE: 12/15/97						

ROAD WIDENING DETAIL

SCALE: 1" = 50'

RECORD DRAWING

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS**
PHASE V
CONSTRUCTION TRAFFIC CONTROL

DESIGNED BY: W. J. H. Survey

DATE: 12/15/97

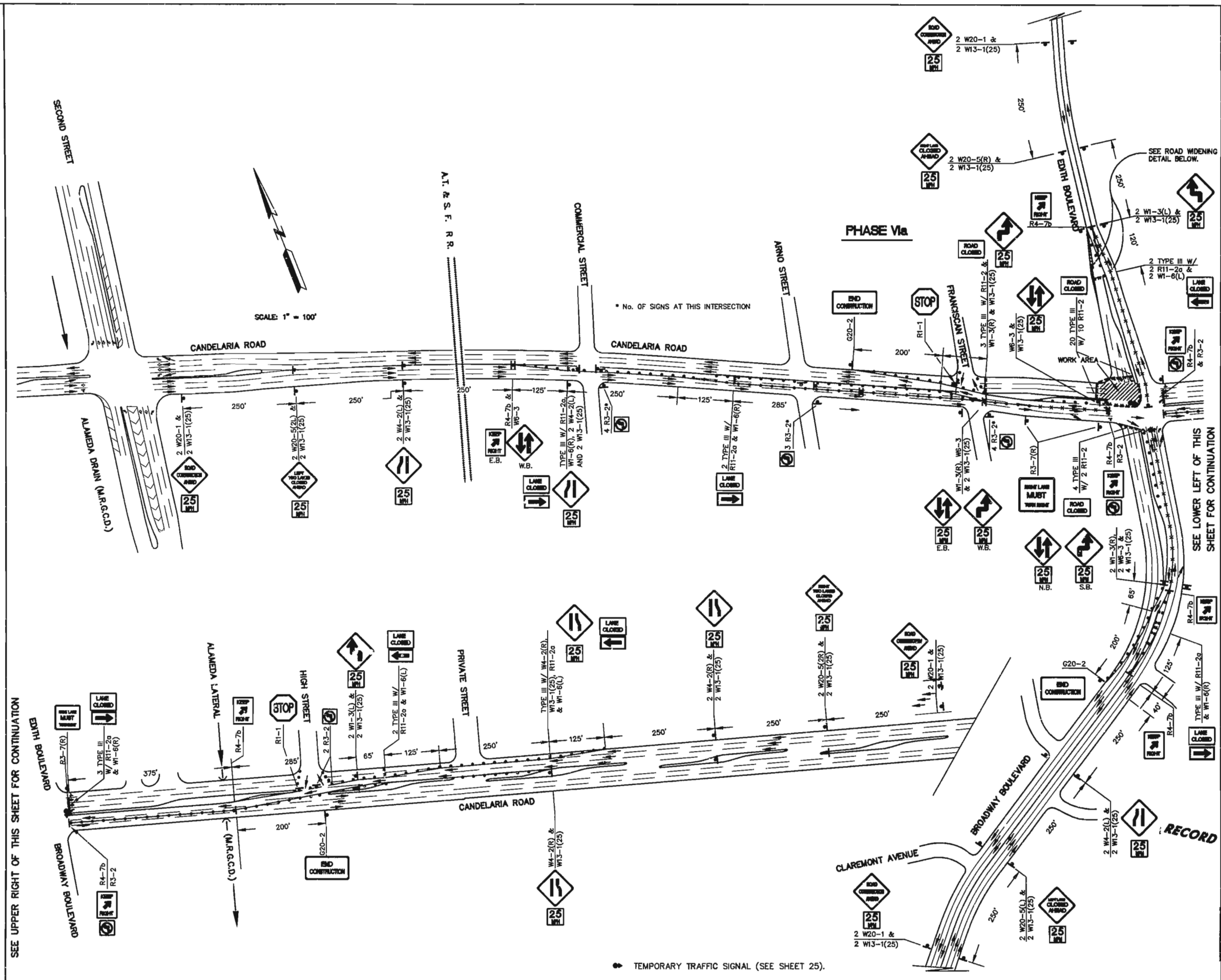
CITY ENGINEER

DESIGNED BY: W. J. H. Survey

DATE: 12/15/97

CITY ENGINEER

City Project No. **4271.92** Zone Map No. **G-15,H-15** Sheet **30** Of **39**



PHASE VIa TRAFFIC CONTROL NOTES:

- THE WORK IN THIS PHASE SHALL BE PERFORMED AS "WEEKEND CONSTRUCTION". THE CONTRACTOR SHALL SCHEDULE HIS WORK SO THAT THE NORTH-SOUTH TRAFFIC PATTERN SHALL BE RETURNED TO NORMAL BEFORE 7:00 AM THE NEXT MONDAY (OR TUESDAY SHOULD THAT BE A HOLIDAY).
- ALL TRENCH WORK SHALL BE BARRICADED WITH BARRELS AT 15 FOOT INTERVALS (MAXIMUM) WITH FLAGGING AND FLASHING LIGHTS PARALLEL TO THE TRENCH. ANY ADDITIONAL BARRICADED AND/OR ADJUSTMENTS SHALL BE MADE UNDER SUPERVISION OF THE CONSTRUCTION COORDINATION DIVISION OF THE CITY OF ALBUQUERQUE.
- ALL WORK WITHIN THIS PHASE, INCLUDING REPAVING, SHALL BE COMPLETED BEFORE ANY WORK IN PHASE VIb IS STARTED.
- SPACING OF BARRELS AND VERTICAL PANELS SHALL BE TWENTY-FIVE FEET (25').
- A TEMPORARY TRAFFIC SIGNAL REQUIRED THIS PHASE, CONTRACTOR TO PLACE SIGNAL & CITY TRAFFIC ENGINEERING TO MAKE ALL ELECTRICAL CONNECTIONS PRIOR TO ANY TRAFFIC BEING REROUTED. SEE SHT. 25 FOR DETAIL OF TEMPORARY SIGNAL. THIS WORK WILL BE PAID UNDER BID ITEM 37.
- REMOVE CURB STONE AND INSTALL TEMP. PAVEMENT & ASPHALT CURB SS EDTH.

ROAD WIDENING DETAIL
SCALE: 1" = 50'

135 SY ±
NEW TEMP.
ASPHALT
PAVEMENT

REMOVE AND
REPLACE EXIST.
'G' & 'C' 14.5' ±
'G' & 'C' 14.5' ±
INSTALL
SS ASPH.
'G' & 'C' 14.5' ±
INSTALL
CURB

RECORD DRAWING

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS
PHASE VIa
CONSTRUCTION TRAFFIC CONTROL

DESIGN: JUL 26 1998
CITY ENGINEER: JUL 29 1998

City Project No. **4271.92** Zone Map No. **G-15,H-15** Sheet **31** of **39**

AS BUILT INFORMATION

CONTRACTOR: Condore Const Co.
DESIGNED BY: W. J. Taylor
CHECKED BY: M. J. Taylor
DATE: 8-27-97

BENCH MARKS

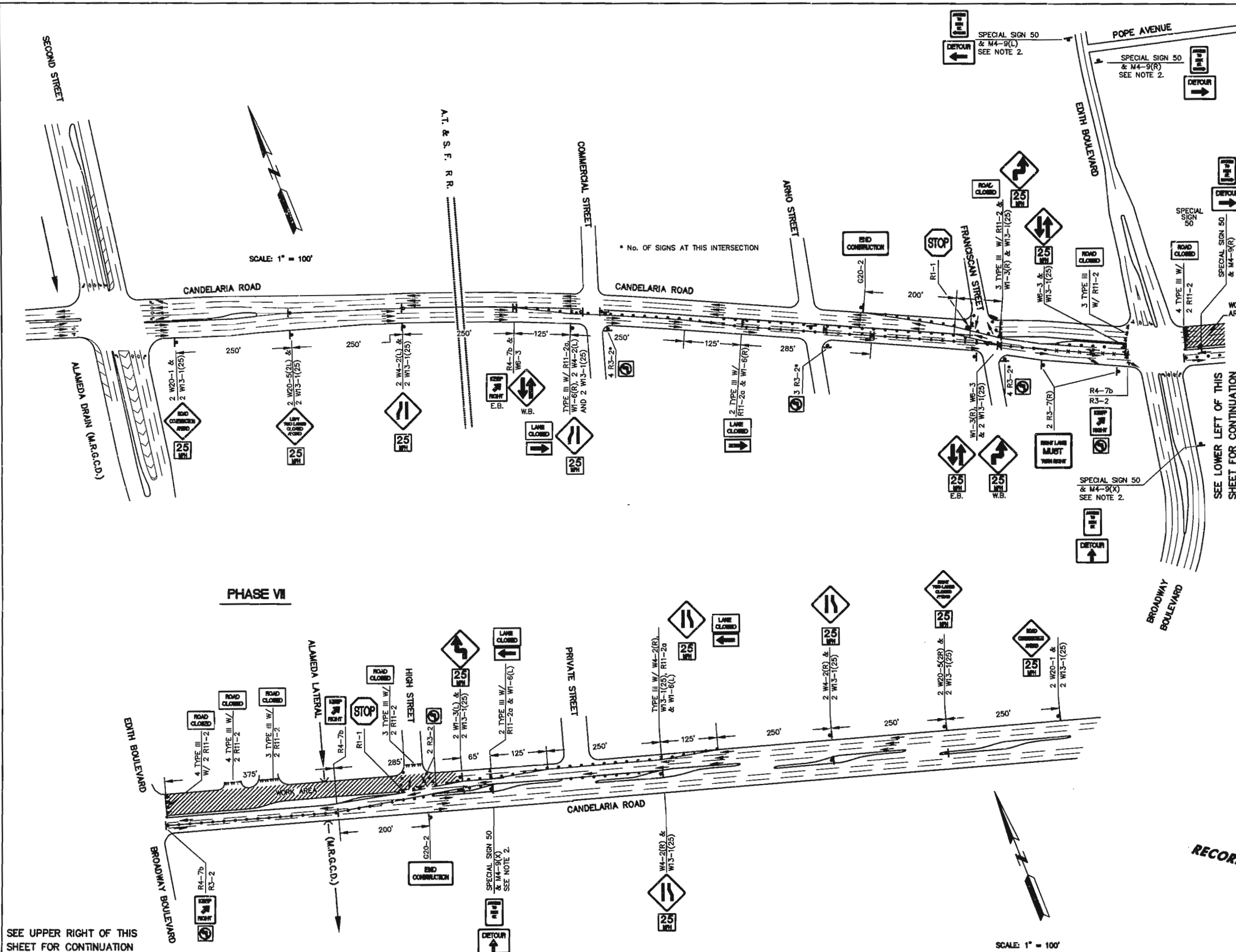
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ENGINEER'S SEAL

REVISIONS

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DESIGNED BY: RL DATE: Dec. 1997
DRAWN BY: JC DATE: Dec. 1997
CHECKED BY: RL DATE: Dec. 1997



- PHASE VI1 TRAFFIC CONTROL NOTES:
1. ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. TEMPORARY CLOSURE OF DRIVEWAYS WILL BE REQUIRED AS WORK PASSES DIRECTLY ACROSS THE DRIVEWAYS, BUT SHALL BE REOPENED AS POSSIBLE (THIS PLAN SHOWS THE DRIVES AT THE "REDI-MART" DURING TEMPORARY CLOSURE FOR ILLUSTRATION ONLY).
 2. THIS PLAN SHOWS HIGH STREET WITH "RIGHT IN / RIGHT OUT" ACCESS AND AS BEING CLOSED. IT IS TO REMAIN OPEN AS LONG AS POSSIBLE; BUT, WHEN IT DOES BECOME NECESSARY (NOT TO EXCEED 24 HOURS), CLOSURE SHALL BE AS SHOWN IN PLAN. DURING CLOSURE OF HIGH ST., "HIGH ST." & "DETOUR" SIGNS SHALL BE POSTED DIRECTING TRAFFIC VIA CANDELARIA WEST TO EDITH, NORTH TO POPE & EAST TO HIGH.
 3. ALL TRENCH WORK SHALL BE BARRICADED WITH BARRELS AT 15 FOOT INTERVALS (MAXIMUM) WITH FLAGGING AND FLASHING LIGHTS PARALLEL TO THE TRENCH. ANY ADDITIONAL BARRICADING AND/OR ADJUSTMENTS SHALL BE MADE UNDER SUPERVISION OF THE CONSTRUCTION COORDINATION DIVISION OF THE CITY OF ALBUQUERQUE.
 4. WORK IN THIS PHASE MAY BEGIN WHILE WORK ON PHASE VI6 IS UNDERWAY, AS LONG AS THIS IN NO WAY CONFLICTS WITH "WEEKEND CONSTRUCTION" OF NOTE 1, SHEET 32.
 5. SPACING OF BARRELS AND VERTICAL PANELS SHALL BE TWENTY-FIVE FEET (25').

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS	
NO.		FIELD NOTES		DATE	
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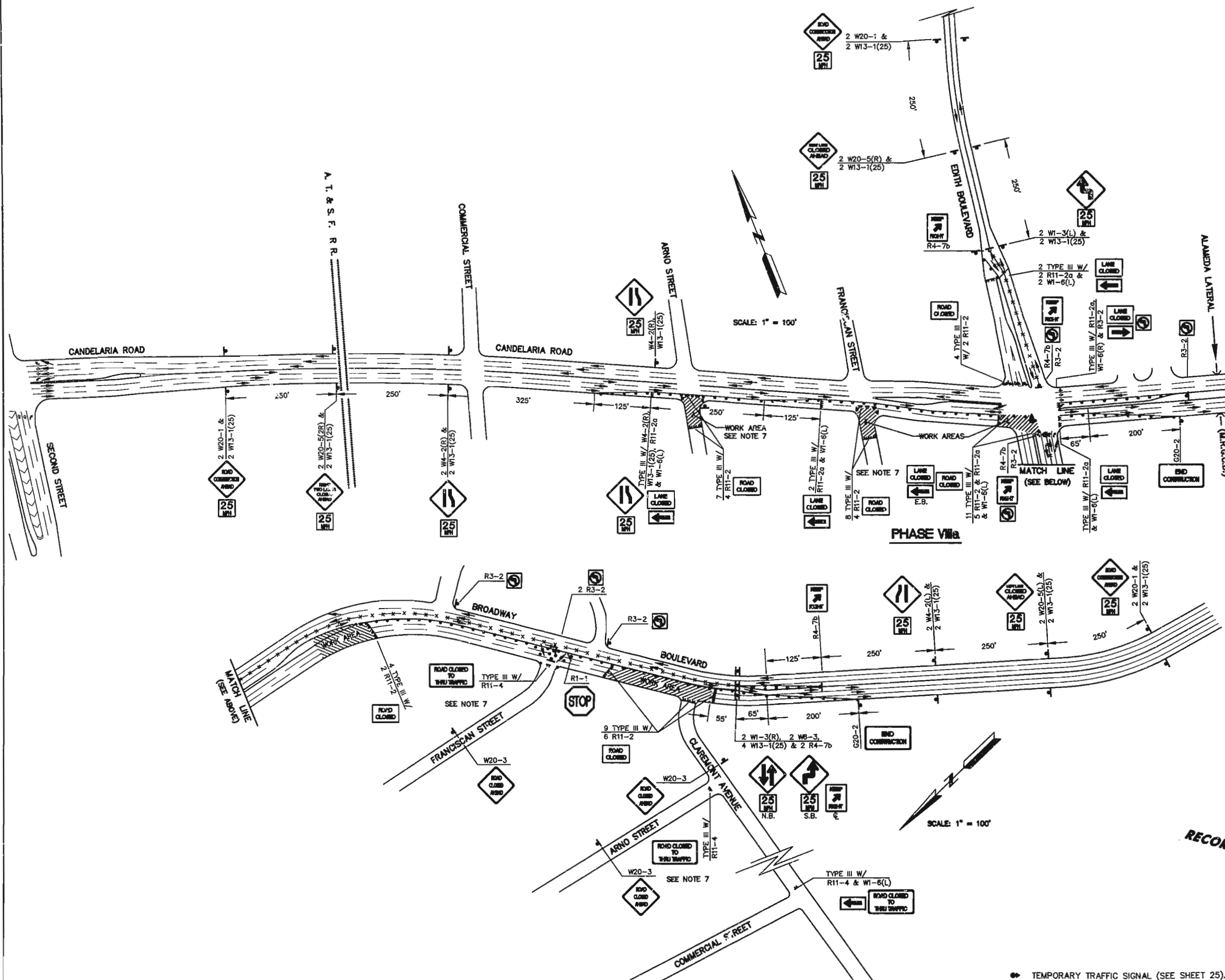
CITY OF ALBUQUERQUE		PUBLIC WORKS DEPARTMENT	
ENGINEERING GROUP		ENGINEERING GROUP	
TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS		TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS	
PHASE VI1		PHASE VI1	
CONSTRUCTION TRAFFIC CONTROL		CONSTRUCTION TRAFFIC CONTROL	
DESIGN REVIEW COMMITTEE		DESIGN REVIEW COMMITTEE	
CITY ENGINEER		CITY ENGINEER	
City Project No. 4271.92		City Project No. 4271.92	
Zone Map No. G-15,H-15		Zone Map No. G-15,H-15	
Sheet 33 Of 39		Sheet 33 Of 39	

SEE UPPER RIGHT OF THIS SHEET FOR CONTINUATION

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CITY OF ALBUQUERQUE		PUBLIC WORKS DEPARTMENT	
ENGINEERING GROUP		ENGINEERING GROUP	
TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS		TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS	
PHASE VI1		PHASE VI1	
CONSTRUCTION TRAFFIC CONTROL		CONSTRUCTION TRAFFIC CONTROL	
DESIGN REVIEW COMMITTEE		DESIGN REVIEW COMMITTEE	
CITY ENGINEER		CITY ENGINEER	
City Project No. 4271.92		City Project No. 4271.92	
Zone Map No. G-15,H-15		Zone Map No. G-15,H-15	
Sheet 33 Of 39		Sheet 33 Of 39	



PHASE VIIa TRAFFIC CONTROL NOTES:

1. THE WORK IN THE CANDELARIA-EDITH INTERSECTION WORK AREA OF THIS PHASE SHALL BE "WEEKEND CONSTRUCTION". CONTRACTOR SHALL SCHEDULE HIS WORK SO THAT THE EAST-WEST TRAFFIC PATTERN WILL BE RETURNED TO NORMAL BEFORE 7:00 A.M. THE NEXT MONDAY (OR TUESDAY SHOULD THAT MONDAY BE A HOLIDAY).
2. ALL TRENCH WORK SHALL BE BARRICADED WITH BARRIERS AT 15 FOOT INTERVALS (MAXIMUM) WITH FLAGGING AND FLASHING LIGHTS PARALLEL TO THE TRENCH. ANY ADDITIONAL BARRICADING AND/OR ADJUSTMENTS SHALL BE MADE UNDER SUPERVISION OF THE CONSTRUCTION COORDINATION DIVISION OF THE CITY OF ALBUQUERQUE.
3. ALL WORK WITHIN THIS PHASE, INCLUDING REPAVING, SHALL BE COMPLETED BEFORE ANY WORK IN PHASE VIII IS STARTED.
4. SPACING OF BARRELS AND VERTICAL PANELS SHALL BE TWENTY-FIVE FEET (25').
5. ACCESS TO ADJACENT PROPERTIES TO BE PROVIDED AT ALL TIMES.
6. CLOSURE OF ARNO ST. OR FRANCISCAN ST. MAY BE CONTINUED THROUGH PHASES VIII OR IX IF REQUIRED.
7. TEMPORARY TRAFFIC SIGNAL REQUIRED THIS PHASE. CONTRACTOR TO LOCATE SIGNAL & CITY TRAFFIC ENGINEERING TO MAKE ALL ELECTRICAL CONNECTIONS PRIOR TO ANY TRAFFIC BEING REROUTED. SEE SHT. 25 FOR DETAIL OF TEMPORARY SIGNAL.

AS BUILT INFORMATION

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ENGINEER'S SEAL

REVISIONS

NO.	DATE	REMARKS	BY
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DESIGNED BY: AL
DRAWN BY: AL
CHECKED BY: AL

DATE DEC. 1997
DATE DEC. 1997
DATE DEC. 1997

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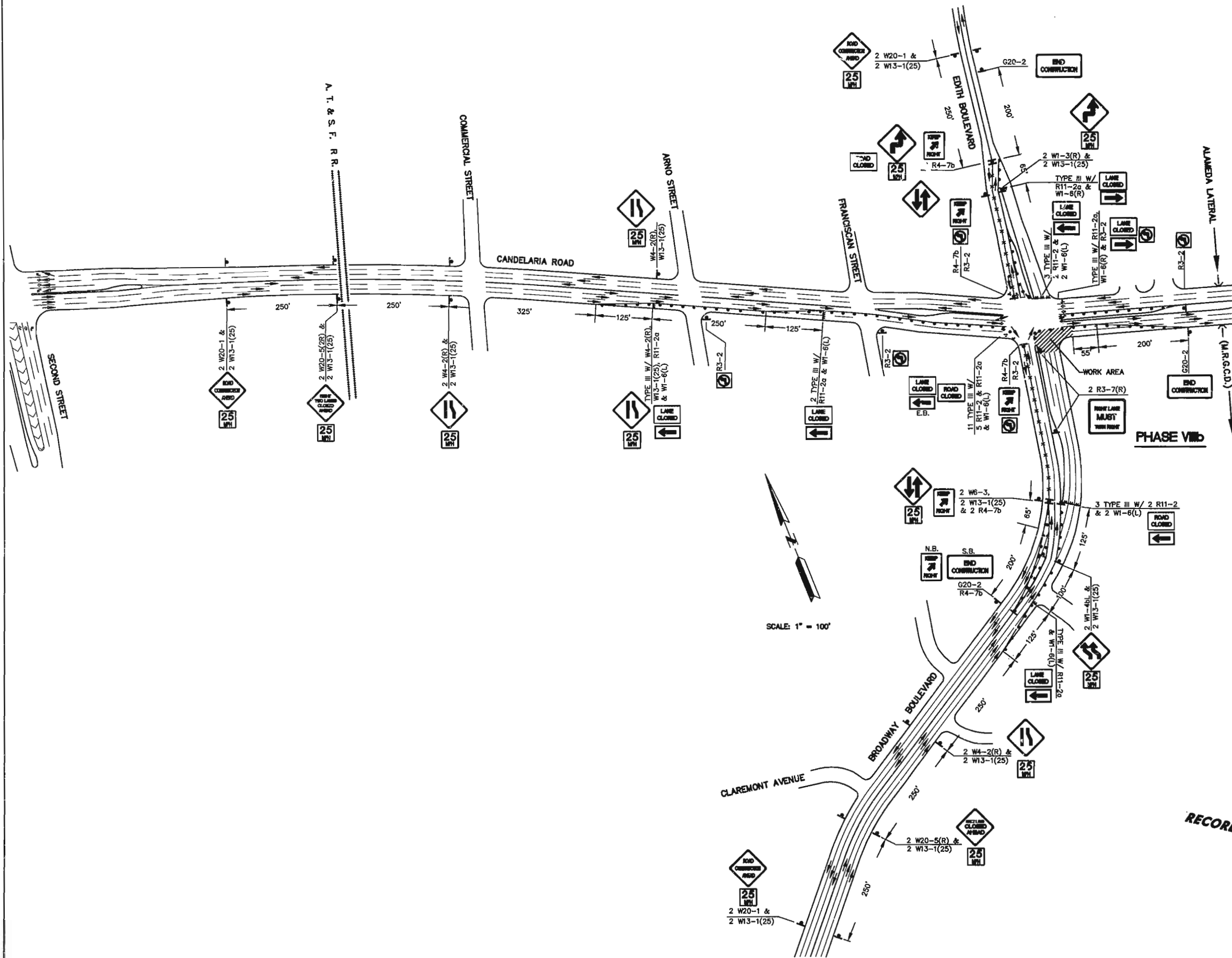
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CITY OF ALBUQUERQUE
 PUBLIC WORKS DEPARTMENT
 ENGINEERING GROUP

TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS
 PHASE VIIa
 CONSTRUCTION TRAFFIC CONTROL

APPROVED
JUL 26 1998
CITY ENGINEER

City Project No. 4271.92 **Zone Map No. G-15,H-15** **Sheet 34 of 39**



PHASE VIIIb TRAFFIC CONTROL NOTES:

1. THE WORK IN THIS PHASE IS TO BE PERFORMED AS "WEEKEND CONSTRUCTION". THE CONTRACTOR SHALL SCHEDULE HIS WORK SUCH THAT THE NORTH-SOUTH TRAFFIC PATTERN WILL BE RETURNED TO NORMAL BEFORE 7:00 AM THE FOLLOWING MONDAY (OR TUESDAY SHOULD THAT BE A HOLIDAY).
2. ALL TRENCH WORK SHALL BE BARRICADED WITH BARRELS AT 15 FOOT INTERVALS (MAXIMUM) WITH FLAGGING AND FLASHING LIGHTS PARALLEL TO THE TRENCH. ANY ADDITIONAL BARRICADING AND/OR ADJUSTMENTS SHALL BE MADE UNDER SUPERVISION OF THE CONSTRUCTION COORDINATION DIVISION OF THE CITY OF ALBUQUERQUE.
3. WORK IN PHASE IX MAY BEGIN BEFORE THIS PHASE IS COMPLETE PROVIDED THIS IN NO WAY DELAYS THE COMPLETION OF WORK IN THIS PHASE.
4. SPACING OF BARRELS AND VERTICAL PANELS SHALL BE TWENTY-FIVE FEET (25').
5. ACCESS TO ADJACENT PROPERTIES TO BE PROVIDED AT ALL TIMES.

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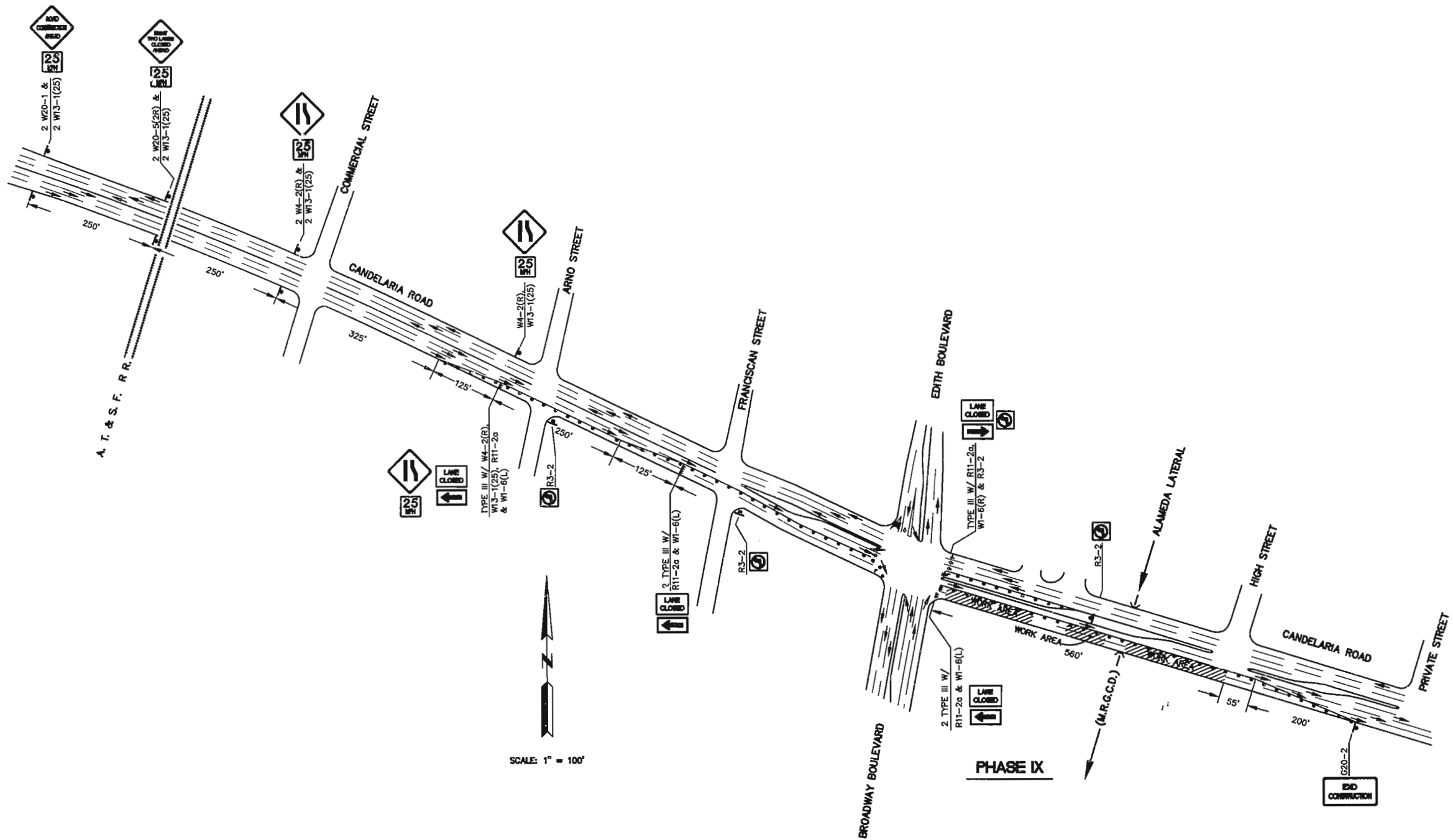
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP
TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS
PHASE VIIIb
CONSTRUCTION TRAFFIC CONTROL

APPROVE JUL 26 1998
DESIGN REVIEW COMMITTEE
APPROVE JUL 29 1998
CITY ENGINEER

City Project No. 4271.92 Zone Map No. G-15,H-15 Sheet 35 of 39

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DATE	
NO.	DATE	BY	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE
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- PHASE IX TRAFFIC CONTROL NOTES:
1. ALL TRENCH WORK SHALL BE BARRICADED WITH BARRELS AT 15 FOOT INTERVALS (MAXIMUM), WITH FLASHING AND FLASHING LIGHTS PARALLEL TO THE TRENCH. ANY ADDITIONAL BARRICADING AND/OR ADJUSTMENTS SHALL BE MADE UNDER SUPERVISION OF THE CONSTRUCTION COORDINATION DIVISION OF THE CITY OF ALBUQUERQUE.
 2. NO WORK ON PHASE X SHALL BEGIN UNTIL ALL WORK ON THIS PHASE, INCLUDING REPAVING, IS COMPLETE.
 3. SPACING OF BARRELS AND VERTICAL PANELS SHALL BE TWENTY-FIVE FEET (25').
 4. ACCESS TO ADJACENT PROPERTIES TO BE PROVIDED AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH THE AFFECTED BUSINESSES TO PROVIDE SUCH ACCESS.
 5. THE TWO-LANE CLOSURE SHALL BE FOR AS SHORT A TIME AS POSSIBLE. AS SOON AS THE THREE STORM DRAIN LINES CROSSING CANDELARIA RD. CAN BE INSTALLED AND THE PAVEMENT REPLACED, CHANGE TO A SINGLE RIGHT LANE CLOSURE FOR THE REMAINING STORM DRAIN CONSTRUCTION.
 6. THE EXISTING TRAFFIC SIGNALS SHALL BE WORKING AS NORMAL DURING THIS PHASE. NO TEMPORARY SIGNALS WILL BE NEEDED.

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PUBLIC WORKS DEPARTMENT
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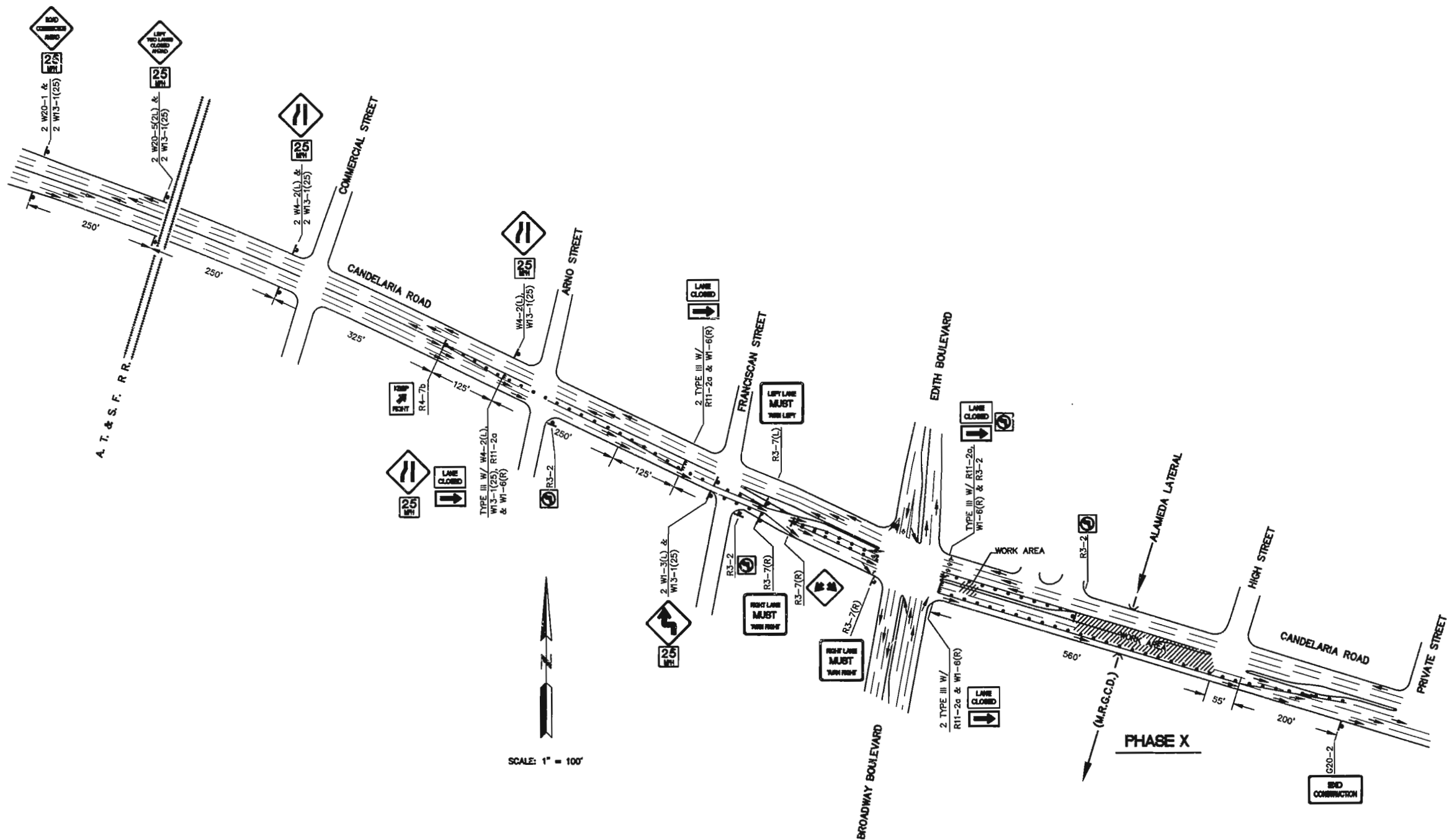
TITLE: **COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS**
PHASE IX
CONSTRUCTION TRAFFIC CONTROL

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DESIGNED BY: RL
DRAWN BY: JC
CHECKED BY: RL

DATE: DEC., 1997
DATE: DEC., 1997
DATE: DEC., 1997

City Project No. **4271.92** Zone Map No. **G-15,H-15** Sheet **36** Of **39**



PHASE X TRAFFIC CONTROL NOTES:

1. ALL TRENCH WORK SHALL BE BARRICADED WITH BARRELS AT 15 FOOT INTERVALS (MAXIMUM) WITH FLAGGING AND FLASHING LIGHTS PARALLEL TO THE TRENCH. ANY ADDITIONAL BARRICADING AND/OR ADJUSTMENTS SHALL BE MADE UNDER SUPERVISION OF THE CONSTRUCTION COORDINATION DIVISION OF THE CITY OF ALBUQUERQUE.
2. NO WORK ON PHASE X SHALL BEGIN UNTIL ALL WORK ON THIS PHASE, INCLUDING REPAVING, IS COMPLETE.
3. SPACING OF BARRELS AND VERTICAL PANELS SHALL BE TWENTY-FIVE FEET (25').
4. ACCESS TO ADJACENT PROPERTIES TO BE PROVIDED AT ALL TIMES.
5. THE TWO-LANE CLOSURE SHALL BE FOR AS SHORT A TIME AS POSSIBLE. AS SOON AS THE THREE STORM DRAIN LINES CROSSING CANDELARIA RD. CAN BE INSTALLED AND THE PAVEMENT REPLACED, CHANGE TO A SINGLE LEFT LANE CLOSURE TO 55' PAST THE INLET CONSTRUCTION AND THEN END ALL LANE CLOSURE.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN	
NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
1		1		1		1		1		1	
2		2		2		2		2		2	
3		3		3		3		3		3	
4		4		4		4		4		4	
5		5		5		5		5		5	
6		6		6		6		6		6	
7		7		7		7		7		7	

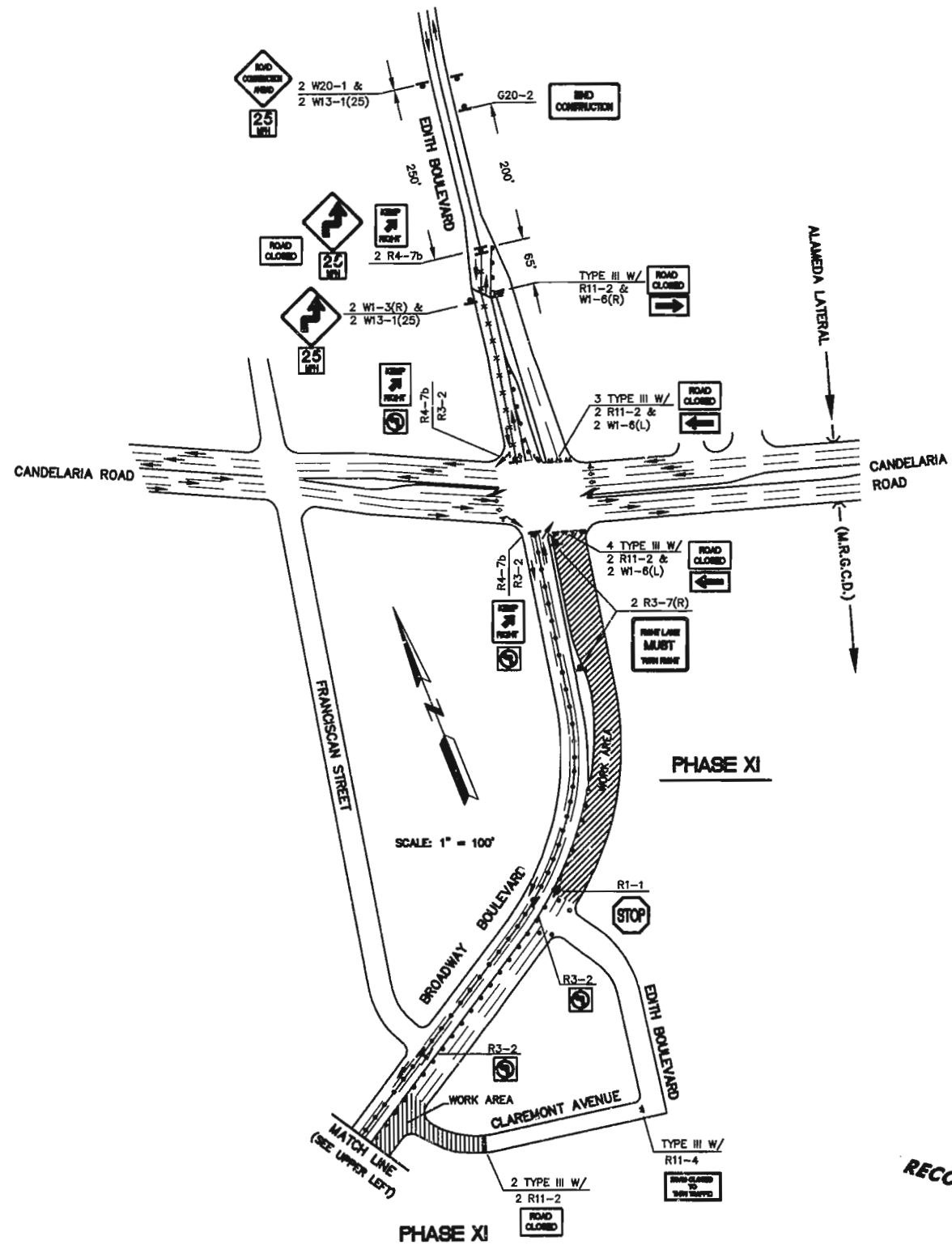
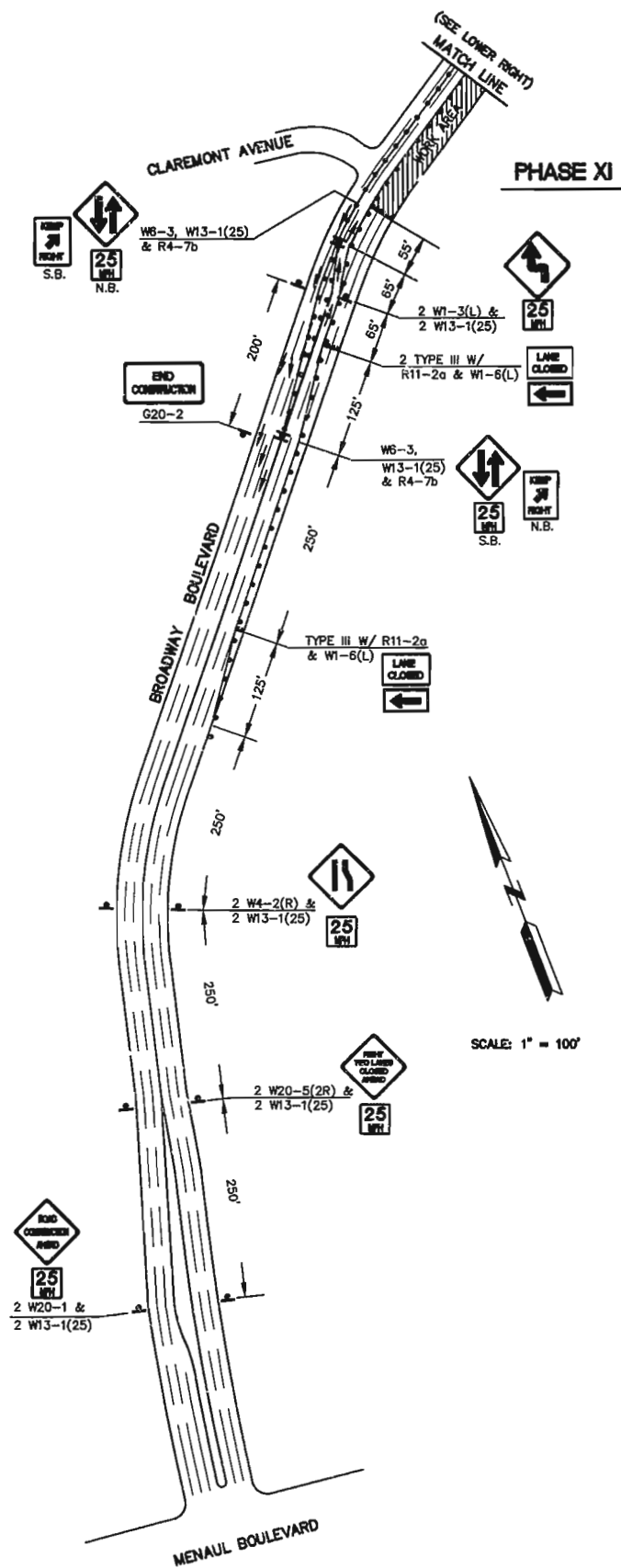
ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE 871-7776 NEW MEXICO
8500 MENAUL BLVD. NE.
SUITE A-440
ALBUQUERQUE, NEW MEXICO 87112
TELEPHONE 505 275-7500
FAX 505 275-0748

RECORD DRAWING

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP
TITLE: COMMERCIAL, CANDELARIA, CLAREMONT
& BROADWAY STORM DRAIN IMPROVEMENTS
PHASE X
CONSTRUCTION TRAFFIC CONTROL

APPROVED JUL 26 1998
DESIGN REVIEW COMMITTEE
APPROVED JUL 29 1998
CITY ENGINEER

City Project No. 4271.92 Zone Map No. G-15,H-15 Sheet 37 of 39



PHASE XI TRAFFIC CONTROL NOTES:

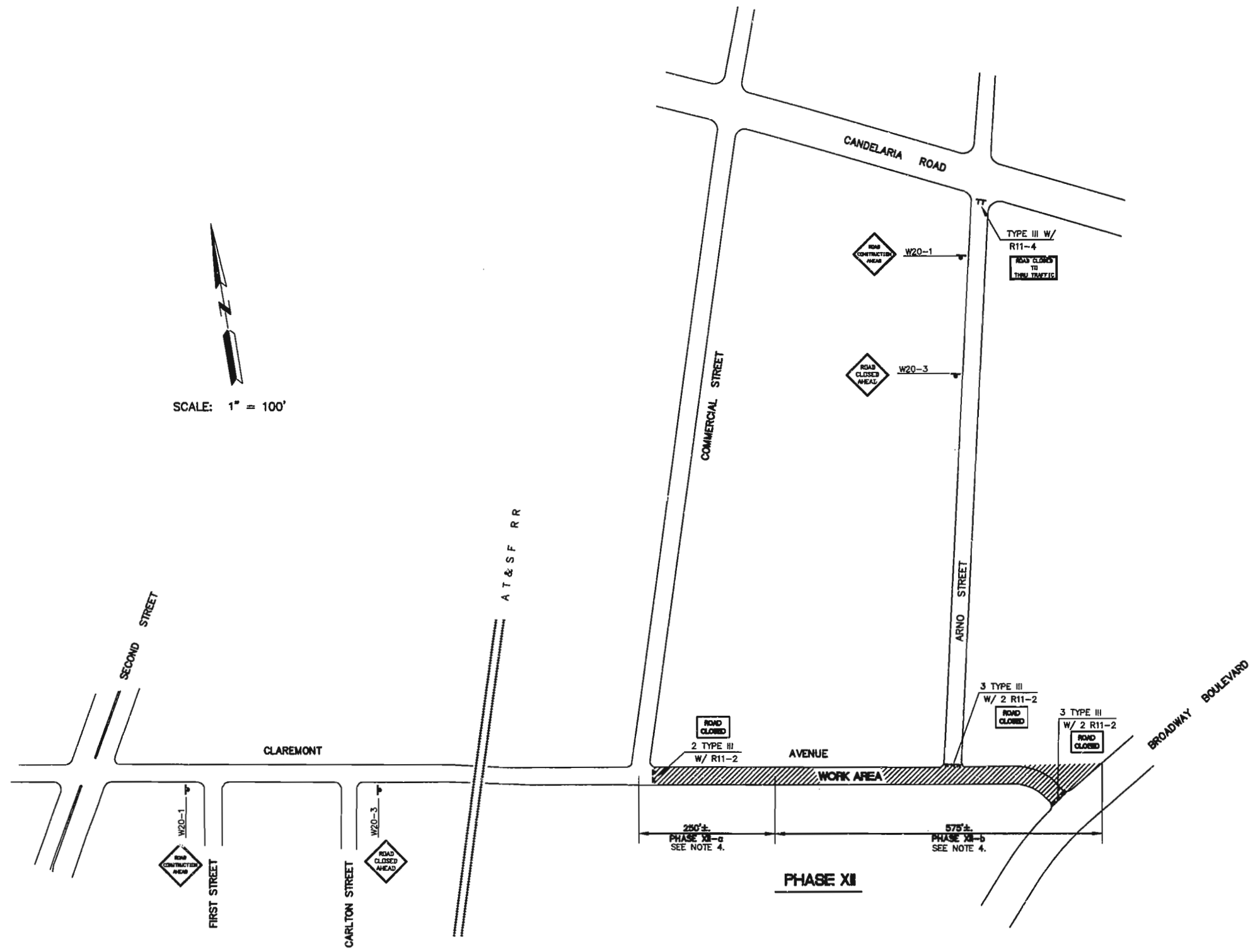
- ALL TRENCH WORK SHALL BE BARRICADED WITH BARRELS AT 15 FOOT INTERVALS (MAXIMUM) WITH FLAGGING AND FLASHING LIGHTS PARALLEL TO THE TRENCH. ANY ADDITIONAL BARRICADES AND/OR ADJUSTMENTS SHALL BE MADE UNDER SUPERVISION OF THE CONSTRUCTION COORDINATION DIVISION OF THE CITY OF ALBUQUERQUE.
- SPACING OF BARRELS AND VERTICAL PANELS SHALL BE TWENTY-FIVE FEET (25').
- ACCESS TO ADJACENT PROPERTIES TO BE PROVIDED AT ALL TIMES.
- CONTRACTOR SHALL PROVIDE ADA ACCESS FOR 'RES-CARE NM, INC.', 2901 EDITH BLVD., NE, AT ALL TIMES.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		RECORD-DRAWING	
CONTRACTOR	DATE	NO.	BY	DATE	NO.	DATE	BY	DATE	DATE	DATE	DATE
CONTRACTOR: Condon Const. Co.	DATE: 10/1/97	1	BY: [Signature]	DATE: 10/1/97	1	DATE: 10/1/97	BY: [Signature]	DATE: 10/1/97	DATE: 10/1/97	DATE: 10/1/97	DATE: 10/1/97
DESIGNED BY: [Signature]	DATE: 10/1/97	2	BY: [Signature]	DATE: 10/1/97	2	DATE: 10/1/97	BY: [Signature]	DATE: 10/1/97	DATE: 10/1/97	DATE: 10/1/97	DATE: 10/1/97
DRAWN BY: [Signature]	DATE: 10/1/97	3	BY: [Signature]	DATE: 10/1/97	3	DATE: 10/1/97	BY: [Signature]	DATE: 10/1/97	DATE: 10/1/97	DATE: 10/1/97	DATE: 10/1/97
CHECKED BY: [Signature]	DATE: 10/1/97	4	BY: [Signature]	DATE: 10/1/97	4	DATE: 10/1/97	BY: [Signature]	DATE: 10/1/97	DATE: 10/1/97	DATE: 10/1/97	DATE: 10/1/97
RECORDED BY: [Signature]	DATE: 10/1/97	5	BY: [Signature]	DATE: 10/1/97	5	DATE: 10/1/97	BY: [Signature]	DATE: 10/1/97	DATE: 10/1/97	DATE: 10/1/97	DATE: 10/1/97
DATE: 10/1/97	DATE: 10/1/97	6	BY: [Signature]	DATE: 10/1/97	6	DATE: 10/1/97	BY: [Signature]	DATE: 10/1/97	DATE: 10/1/97	DATE: 10/1/97	DATE: 10/1/97
DATE: 10/1/97	DATE: 10/1/97	7	BY: [Signature]	DATE: 10/1/97	7	DATE: 10/1/97	BY: [Signature]	DATE: 10/1/97	DATE: 10/1/97	DATE: 10/1/97	DATE: 10/1/97

ANDREWS, ASBURY & ROBERT, INC.
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP
TITLE: COMMERCIAL, CANDELARIA, CLAREMONT
& BROADWAY STORM DRAIN IMPROVEMENTS
PHASE XI
CONSTRUCTION TRAFFIC CONTROL

DESIGN REVIEW COMMITTEE	CITY ENGINEER	Mo./Day/Yr.	Mo./Day/Yr.
APPROVE JUL 26 1998 DESIGN REVIEW COMMITTEE	APPROVE JUL 29 1998 CITY ENGINEER		
City Project No. 4271.92	Zone Map No. G-15,H-15	Sheet 38	Of 39



- PHASE XII TRAFFIC CONTROL NOTES:**
1. ACCESS TO ADJACENT PROPERTIES TO BE PROVIDED AT ALL TIMES.
 2. ALL TRENCH WORK SHALL BE BARRICADED WITH BARRELS AT 15 FOOT INTERVALS (MAX.) WITH FLAGGING AND FLASHING LIGHTS PARALLEL TO THE TRENCH. ANY ADDITIONAL BARRICADING AND/OR ADJUSTMENTS SHALL BE MADE UNDER THE SUPERVISION OF THE CITY OF ALBUQUERQUE'S CONSTRUCTION COORDINATION DIVISION.
 3. SPACING OF BARRELS AND VERTICAL PANELS SHALL BE TWENTY-FIVE FEET (25').
 4. THE BOUNDARY BETWEEN PHASE XII-a AND PHASE XII-b SHALL BE THE PROPERTY LINE BETWEEN THE THIRD & FOURTH PROPERTIES ALONG CLAREMONT AVE. APPROX. 250' EAST OF COMMERCIAL ST. ALL CONST. WORK, INCLUDING REPAVING, IN PHASE XII-a SHALL BE COMPLETED BEFORE ANY WORK IN PHASE XII-b BEGINS, TO ALLOW THE RESIDENTS ACCESS TO THEIR HOMES.

AS BUILT INFORMATION CONTRACTOR: <i>Condore Const. Co.</i> DESIGNED BY: <i>Walker Survey</i> DATE: <i>10/2/97</i>		BENCH MARKS STA. 1M47-11 MINISC BRASS TABLE SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND LOCATED IN THE MEDIAN OF THE 3200 BLOCK OF SECOND STREET, NW. APPROXIMATELY 400 FEET SOUTH OF MILDRED AVE. ELEV. 4968.633	
SURVEY INFORMATION FIELD NOTES NO. 1 BY: <i>[Signature]</i> DATE: <i>10/2/97</i>		ENGINEER'S SEAL 	
REVISIONS NO. 1 DATE: <i>10/2/97</i> BY: <i>[Signature]</i> REMARKS: <i>DESIGN</i>		DESIGNED BY: <i>RL</i> DRAWN BY: <i>UC</i> CHECKED BY: <i>RL</i> DATE: <i>Dec., 1997</i>	
RECORD DRAWING CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS PHASE XII CONSTRUCTION TRAFFIC CONTROL			
City Project No. 4271.92 Zone Map No. G-15,H-15		Sheet 39 of 39	



LEGEND

SHEET NUMBER

10

SCALE: 1" = 300'

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
STATIONING: 0+00 to 0+10		STA. N47-11		FIELD NOTES		NO. 1	
CONTRACT: 0000000000		NMSHC BRASS TABLET SET IN TOP OF A CONCRETE		BY		DATE	
DRAWN BY: J. L. Smith		POST FLUSH WITH THE GROUND LOCATED IN THE		NO. 2		DATE	
CHECKED BY: J. L. Smith		MEDIAN OF THE 3200 BLOCK OF SECOND STREET, NW		NO. 3		DATE	
APPROVED BY: J. L. Smith		APPROXIMATELY 400 FEET SOUTH OF MILDRED AVE.		NO. 4		DATE	
DATE: 9/15/99		ELEV. 4968.533		NO. 5		DATE	
MICRO-FILM INFORMATION				NO. 6		DATE	
RECORDED BY				NO. 7		DATE	
DATE							

ANDREWS, ASBURY & ROBERT, INC.

CONSULTING ENGINEERS

ALBUQUERQUE 877-776 NEW MEXICO

8500 MENAUL BLVD., NE.

SUITE A-440

ALBUQUERQUE, NEW MEXICO 87112

TELEPHONE 505 275-7500

FAX 505 275-0748

CITY OF ALBUQUERQUE

PUBLIC WORKS DEPARTMENT

ENGINEERING GROUP

TITLE: COMMERCIAL, CANDELA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS

LOCATION MAP

RECORD DRAWING

Design Review Committee	City Engineer Approval	No./Day/Yr.	No./Day/Yr.

City Project No.	Zone Map No.	Sheet	Of
4271.92	G-15,H-15	1B	39

GENERAL NOTES

- All work detailed on these plans to be performed under this contract shall, except as otherwise stated or provided for herein, be constructed in accordance with City of Albuquerque Standard Specifications for Public Works Construction, 1986 Edition, as amended through update no. 6. References made to standard drawings refer to City of Albuquerque Standard Drawings.
- Exploratory trenching may be required to more specifically locate utility lines during construction. The Contractor is responsible to coordinate field location of utilities with the affected utility companies. The cost of this work will be considered incidental to other items of work and no direct payment will be made therefor.
- Elevations are shown in feet above mean sea level datum.
- All stationing refers to centerline or baseline of construction and is the measured horizontal distance. Left and right of centerline are looking in the direction of increasing station.
- When coordinates are shown herein (N, E), they refer to a modified New Mexico State Plane (Central Zone) ground coordinate system established for this project, except when specifically referred to as state grid. Coordinates are based on true ground distances and state grid bearings from the state grid coordinate system. Project combined ground-to-grid factor is 0.99987806.
- All exposed concrete edges shall be chamfered 3/4 inch unless note or unless otherwise directed by the Engineer.
- Concrete construction shall be in accordance with ACI-301, latest edition, and as modified by the contract documents. Reinforcing bar spacing is center to center of bars. Bar cover is clear distance between surface of bar and face of concrete and shall be a minimum of two inches for formed and top surfaces and three inches for surfaces placed against the earth unless otherwise shown.
- Reinforcing bars shall be continuous or spliced from slogs and walls into adjacent slabs and walls.
- Reinforcing bars shall be detailed by the Contractor in conformance with the most current editions of ACI-318, ACI-315 and ACI-315R. The Contractor shall submit reinforcement placement drawings (shop drawings) for Engineer's review before beginning fabrication of the reinforcement. Where splice lengths are not shown on the plans, Class "B" splices with a multiplier of 0.8 shall be used. Bar bands shall conform to ACI-318, Chapter 7, with 90° and 180° hooks having a minimum extension as set forth in Section 7.1 of ACI-318.
- A concrete placement schedule and proposed construction joint locations shall be submitted by the Contractor for review by the Engineer before reinforcing bars are detailed. The sequence of pours must be such that shrinkage will be minimized. Maximum length between Construction/Construction joints shall be 35 ft. Expansion joints are to be as located in the plan drawings.
- A geotechnical investigation report was prepared for this project and is available for examination at the office of Andrews, Asbury & Robert, The Larkin Group, Inc., 8500 Menaul Blvd. NE., Suite A-440 Albuquerque, New Mexico, including logs of test borings. The Contractor is expected to examine the site and determine for himself the character of materials to be encountered. Soils are classified in accordance with the Unified Soils Classification system.
- Contractor's construction yards, staging areas, and any other disturbed areas not within the seeding limits noted on the plans shall be seeded, in accordance with Section 1011 of the Standard Specifications and no measurement or payment will be therefor.
- Preservation and replacement of permanent survey monuments and survey stakes be performed in accordance with Section 4.4 of the General Conditions of the Standard Specifications.
- The Contractor shall confine his operations to the construction limits of project and will be held responsible for any damage by his operation to public or private property, including utilities.
- It is the Contractor's responsibility to locate a waste area for surplus or unsuitable materials. Payment shall be made for materials hauled to or placed at such waste area under Bid Item No. 27.
- The Contractor will be required to maintain his construction areas during the entire life of the project.
- There will be no measurement or payment for any items of work not specifically listed in the UNIT PRICE BID PROPOSAL. All other items of work or materials reasonably anticipated to be required to complete the project shall be considered incidental to other items of work.
- The Contractor is responsible for the protection of his work from rainfall, storm drainage, or flood so that it does not delay construction or damage completed work or downstream or adjacent properties.
- Owner is responsible for securing all permanent easements or right-of-way, Highway Department permission and Temporary Construction Easements as shown on the plans for construction, but the Contractor shall be responsible for construction activities which may require additional permission or permits from others.
- Limits of clearing and grubbing, and limits for reseeded disturbed areas shown on the plans, are based on anticipated Contractor operations. Actual limits shall be determined at the pre-construction conference based on proposed Contractor's operations for trenching, staging areas, construction yard, etc. Final quantities shall be based on limits as approved by the OWNER.
- All traffic control devices installed or used during the construction of this project must conform to the "Manual on Uniform Traffic Control Devices" (MUTCD), latest edition, and erected and maintained by the Contractor's Safety Representative. Construction Traffic Control shall comply with Section 19 of the Standard Specifications.
- The Contractor shall provide a proposed construction progress schedule at the pre-construction conference for review by the City of Albuquerque and the Engineer. Additional or supplemental schedules may be required as the project progresses at the request of either the City or the Engineer.
- The Contractor shall provide and maintain access to all public and private facilities adjacent to the construction area and pedestrian traffic in accordance with Section 19 of the Standard Specifications.
- All work associated with supplying and installing electrical conduit shall be performed by a licensed electrical contractor.

- During back filling, the contractor shall be limited to the use of hand operated compaction equipment within a zone of 5 feet horizontally from the back of the wall of concrete structures.
- The limits of pavement, curb and gutter, and sidewalk removals and replacement, as shown herein, are based on anticipated Contractor operations for trenching but are considered to be maximum. Actual limits will depend on the Contractor's trenching methods used. Any removals which exceed the limits necessary to conduct the Contractor's operations or which exceed the limits shown on these plans must be approved by the Owner prior to removal. Payment will be made for removal and replacement of approved items only and will be based on actual quantities measured in the field.
- STRUCTURAL DESIGN DATA: Design is in accordance with the American Concrete Institute's (ACI-318-89) "Building Code Requirement for Reinforced Concrete", the U.S.D.A., Soil Conservation Service's Technical Release No. 67 (8/80), the American Institute of Steel Construction "Manual of Steel Construction", 9th Edition and the City of Albuquerque's "Standard Design".
Reinforced Concrete (Strength Design)
 $f_c = 4000 \text{ psi}$ @ 28 days; $n = 8$
 $f_y = 60,000 \text{ psi}$
Reinforcing Steel: ASTM A-615 Grade 60
Structural Steel: ASTM A-36, A-53, A-500 & A-501
- All data shown herein concerning existing utilities has been obtained from the owners of the utilities, from records of the City of Albuquerque, and from field observations. These may or may not be accurate. The Contractor is cautioned that he is responsible for determining the exact locations of and for providing protection of all lines during construction. Utility relocation requires: by the construction of this project are to be coordinated by the Contractor. No additional compensation will be allowed for delays or inconvenience caused by utility company work crews. The Contractor may be required to reschedule his activities to allow utility crews to perform their required work. Any damage to lines, valves, meters, etc., will be repaired or replaced by the Contractor at his expense.
- Quantities shown for the various unit price bid items are for the Contractor's information only. Payment shall be based on actual quantities as constructed.
- It is the Contractor's responsibility to know and comply with the "Occupational Safety and Health Act of 1970", as amended.
- The Air Pollution Control Regulations of the ALBUQUERQUE BERNALILLO COUNTY AIR QUALITY CONTROL BOARD limit emission of particulate matter and the use of cut back asphalt. It is the responsibility of the Contractor to clarify these restrictions with the ENVIRONMENTAL HEALTH DEPARTMENT prior to submittal of bids to avoid conflicts with the regulations. Any required permits will be the responsibility of the CONTRACTOR.
- All excavation shall be governed by Federal State and Local Laws, rules and regulations concerning CONSTRUCTION SAFETY and HEALTH, OSHA 29 CFR 1926.650. All excavation, trenching and shoring activities must be carried out in accordance with OSHA 29 CFR 1926.650.
- Any work to be performed within the Middle Rio Grande Conservancy District's (MRGCD) right-of-way shall be closely coordinated with the MRGCD: Call 247-0234. No work is to be done on facilities or structures belonging to or operated by the MRGCD between March 1 and October 31 inclusive. However, work may be permitted by the MRGCD if it can be shown that the work will not interfere with the operation of the MRGCD facility. All work to be done within MRGCD facilities must be approved by the MRGCD Engineer prior to commencing work.
- Noise Suppression Devices shall be kept in working order on all equipment in accordance with all Federal and State Regulations and City Ordinances throughout the course of CONSTRUCTION.
- Watering for Dust Control, as required, shall be considered incidental to construction, and no measurement or payment shall be made therefor. Construction areas shall be watered or otherwise kept dust free. The Contractor shall use watering equipment for dust pollution abatement as directed by the Project Manager.
- During nonworking hours, construction equipment shall not obstruct driveway openings onto private properties and shall not be parked within the right-of-way. The Construction Clear Zone for this Project is 15 feet from the edge of the outside driving lane. The CONTRACTOR shall not store any equipment or materials within the Construction Clear Zone.
- A minimum of two (2) working days prior to any excavation the Contractor must contact ONE CALL line locating service (280-1990) for field locations of existing utilities.
- The CONTRACTOR is to exercise care when removing existing pavement to avoid disturbing any existing underground utilities to remain. It shall be his responsibility to coordinate with the UTILITY COMPANIES in order to prevent any service disruption. Any existing utilities or service lines that do not require relocation and are damaged by the CONTRACTOR shall be removed and replaced at the CONTRACTOR'S EXPENSE. This expense shall be considered incidental to the project and no separate payment will be made.
- CURB AND GUTTER, SIDEWALKS and DRIVE PADS shown as existing and not to be removed under this CONTRACT, which are damaged or displaced by the CONTRACTOR, shall be removed and replaced by the CONTRACTOR at his expense.
- The CONTRACTOR shall be responsible for protecting, supporting and maintaining in service all existing utilities.
- The CONTRACTOR is responsible for any damage caused by him to existing valve boxes, traffic conduit and manholes during construction and shall repair or replace the same at his own expense. The CONTRACTOR shall protect the curb and gutter from incidental splashing during tack coat application and CONTRACTOR shall be responsible for cleaning the same at his own expense in the event of splashing.
- All ties to existing pavement shall be a neat line saw cut joint. Saw cut existing pavement to a straight line and at right angles to remove any broken or cracked pavement. This work shall be considered incidental to construction and no direct payment will be made therefor.
- Existing concrete drive pads, asphaltic driveways and paved parking lots shall be saw to a neat line where matched to new construction. This work shall be considered incidental to construction and no direct payment will be made therefor. Curb and gutter and sidewalks shall be removed to nearest joint.
- The FIRE DEPARTMENT shall be notified 48 hours in advance by the CONTRACTOR whenever a fire hydrant is to be removed or is to be out of service.
- All Gas Valve Boxes, Gas Manholes, Electrical Manholes, Telephone Manholes and Utility Poles will be adjusted to grade or relocated by others.
- Utility adjustments will be done concurrent with construction by Utility Companies involved. The CONTRACTOR is hereby advised that he shall coordinate his work with Utility Companies with enough time so as not to impede his work.
- Prior to construction in any phase, the Contractor shall excavate and verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the Contractor shall notify the Engineer so that the conflict can be resolved with a minimum amount of delay. This work shall be considered incidental to construction and no direct payment will be made therefor.

- New street light bases shall be installed under this contract. The Contractor shall coordinate installation of this new street light with the electric company (PNM).
- The Contractor shall notify the City Surveyor 7 days in advance of construction affecting a City survey monument. Phone No. 768-3612
- The Contractor shall replace all permanent striping and pavement markings removed construction. All new and replacement markings shall be plastic reflectorized pavement markings. The cost of this work is considered incidental to other items of work and no separate measurement or payment will be made therefor.
- All curb dimensions shown are to face of curb unless otherwise noted.
- The use of thirty-five (35) ton or greater roller or vibratory roller will not be allowed on this project. The required compaction shall be effected by means of other types of compaction equipment.
- Subgrade preparation under Curb and Gutters, Median Pavements, Sidewalks and Drive pads shall be considered incidental to the construction of such and no direct payment shall be made for those items of work.
- The design "R" value for this project is 30.
- All manhole frames and covers and water valve frames and lids left in service within the Project Limits shall be adjusted to grade with concrete collars in accordance with the Standard Details. The cost of this work will be considered incidental to other items and no separate measurement or payment will be made therefor.
- The use of adjusting rings within the manhole frames to adjust manhole covers will not be permitted.
- All textured concrete median pavement on this project, if any, shall be constructed in accordance with the City of Albuquerque Standard Specifications, Section 346. The color is to be "Baja Red", running bond pattern.
- Handicapped ramps shall be constructed in accordance with C.O.A. Std. Dwg. 2440 and 2441. Measurement and payment for handicapped ramps shall be per equivalent quantity of 4' sidewalk.
- Concrete sidewalks, drive pads, handicapped ramps, curb and gutter and concrete median pavement shall be constructed of 4000 psi Portland cement concrete.
- Joints for concrete pipe shall be of the flexible watertight "O-ring" gasketed type per the requirements of Sections 501.024 and 501.033 of the Standard Specifications.
- All new reinforced concrete pipe (RCP) for storm drain construction shall be Class III unless otherwise noted on the plans.
- All new storm inlets shall be installed per City of Albuquerque Standard Specification and City of Albuquerque Standard Drawings.
- Right-of-way lines shown on the storm drain plan and profile sheets of these plans are approximate only. They were taken from available information from other projects, zone atlas maps, and other miscellaneous documents. They were not surveyed in the field as a part of this project.
- SUBMITTALS: Owner will review submittals in addition to Engineer. Owner shall retain the right to comment on all submittals.
- Five (5) working days prior to beginning construction the Contractor shall submit to the Construction Coordination Division a detailed construction schedule. Two (2) working days prior to construction the Contractor shall obtain a barricading permit from the Construction Coordination Division. Contractor shall notify Barricade Engineer (768-2551) prior to occupying an intersection. See Section 19 of the Specifications.
- All street striping altered or destroyed shall be replaced with plastic reflectorized pavement markings by the Contractor at the same location as existing or as indicated by this plan set.
- Contractor shall maintain a graffiti-free work site. The Contractor shall promptly remove any and all graffiti from equipment, whether permanent or temporary.
- Any and all existing signs, public or private, removed or damaged by the Contractor shall be reinstated or replaced by the Contractor in the same place or the appropriate place if new construction so dictates. This work is to be incidental and no separate payment will be made therefor.
- Where existing curbs are to be removed adjacent to pavement that is to remain, the Contractor shall saw cut the pavement one foot (1') typically from the curbstone before removal of the curbstone. Pavement shall be replaced as shown on Std. Dwg. 2465.
- Five (5) working days prior to beginning any work near the Traffic Signals (including detector loops), the Contractor shall notify the City's Traffic Operations Department, (505) 857-8000.
- The Contractor shall not use Arno St., Commercial St. or Franciscan St. for haul routes other than when he is actually working within the street in question.
- Construction hours shall be limited to:
Arno St., Commercial St. and Franciscan St. - 7:00 AM TO 7:00 PM.
Broadway Blvd. & Candelaria Rd. - 7:00 AM to 10:00 PM.
Except Within the intersection of Broadway & Candelaria - 24 hour construction.
- In addition to Notes 23 and 36 above, access to all residences shall be provided at the end of each dolly work shift, and all open excavations shall be securely barricaded to prevent children and pedestrians from hazards. This may require fencing.
- The Contractor shall coordinate with the U.S. Postal Service and the C.O.A. Solid Waste Department to ensure mail delivery and garbage pick-up. This may include the Contractor collecting all trash on designated pick-up days and delivering trash to a common pick-up area (away from residences) before pick-up time, and then return "dumpsters" to the residences and businesses.
- Although pavement removal and replacement can extend up to 600 feet at a time, the open excavation in any Work Zone shall not extend past 100 feet in length at any time.
- The Contractor is advised to visit the project site prior to bidding and familiarize themselves with field conditions including the location of utilities shown on the plans and other utilities/obstacles clearly visible in the field. It is the responsibility of the Contractor to plan their construction methods to adequately support and/or avoid all utilities shown on the plans and all utilities/obstacles clearly visible in the field. Any relocation of utilities/obstacles shown on the plans or visible in the field in order to complete the required work will be considered to be for the Contractor's convenience and will be the responsibility of the Contractor, unless the utility/obstruction is identified on the plans as being relocatable as part of the project. It will be the responsibility of the Contractor to coordinate all required relocations with appropriate utilities/individuals.

FOR INFORMATION AND PROJECT COORDINATION WITH PRIVATE UTILITY COMPANIES CONTACT THE FOLLOWING INDIVIDUALS:

AT & T

Art Marquez
111 3rd Street NW.
Albuquerque, New Mexico 87103
Phone: (505) 842-2808
Fax: (505) 842-2808

U.S. WEST COMMUNICATIONS

Norma Carrillo
201 3rd NW.
P.O. Box 1355, Sta. 952
Albuquerque, New Mexico 87103
Phone: (505) 245-8706

PNM ELECTRIC SERVICES

Jim Vann
4201 Edith Blvd. NE.
Albuquerque, New Mexico 87107
Phone: (505) 848-3426

PNM GAS SERVICES

Debbie O'Callaghan
4625 Edith Blvd. NE.
Albuquerque, New Mexico 87107
Phone: (505) 241-7705

JONES INTERCABLE

Robert Martinez
4611 Montbel NE.
P.O. Box 27138
Albuquerque, New Mexico 87125-7138
Phone: (505) 761-6221

AT&T RAILWAY COMPANY

H. E. Eastham
7412 Jefferson Street, NE
Albuquerque, NM 87109
Phone: (505) 857-5026

M. R. G. C. D.

Subhas K. Shoh, Chief Engineer
1931 Second Street, SW
Albuquerque, NM
Phone: (505) 247-0234

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE 87177
8500 MENAUL BLVD. NE.
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ALBUQUERQUE, NEW MEXICO 87112
TELEPHONE 505 275-7500
FAX 505 275-0748

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: COMMERCIAL, CANDELARIA, CLAREMONT & BROADWAY STORM DRAIN IMPROVEMENTS			
GENERAL NOTES			
DESIGNED BY: AZ	DATE: 1997	CHECKED BY: AZ	DATE: 1997
DRAWN BY: AZ	DATE: 1997	CHECKED BY: AZ	DATE: 1997
CITY PROJECT NO. 4271.92		ZONE MAP NO. G-15, H-15	
SHEET 1C		OF 39	