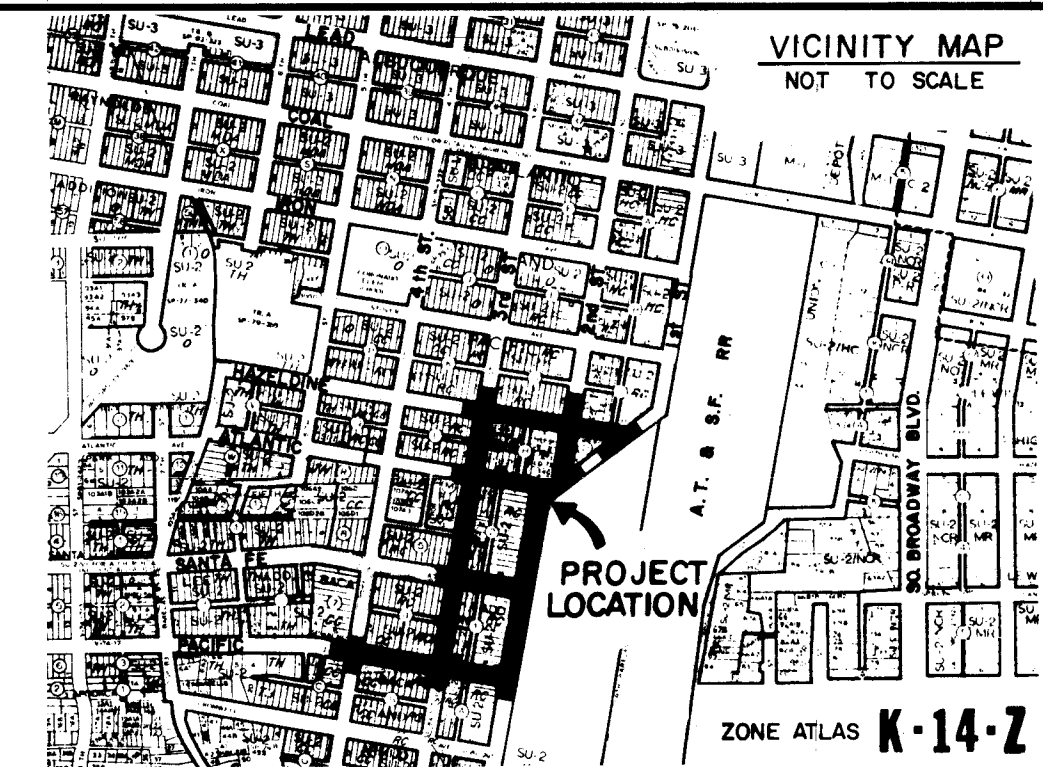


4th STREET STORM DRAIN EXTENSION

Sheet Index

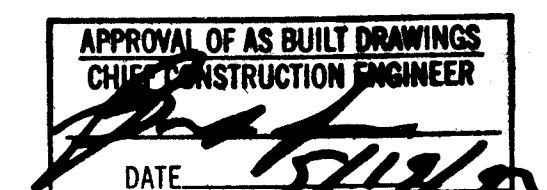
- 1 Cover Sheet & Index
- 2 Project Overview & Survey Baseline
- 3 Pavement & Curb Removal
- 4 Storm Drain Plan & Profile
- 5 Storm Drain Plan & Profile
- 6 Storm Drain Plan & Profile
- 7 Existing Utilities Plan & Profile
- 8 Existing Utilities Plan & Profile
- 9 Existing Utilities Plan & Profile
- 10 Intersection Details for Pacific Ave.
- 11 Intersection Details for Santa Fe Ave.
- 12 Intersection Details for Atlantic Ave.
- 13 Intersection Details for Hazeldine Ave.
- 14 Details
- 15 Traffic Control



GENERAL NOTES

1. All work detailed on these pages to be performed under contract shall, except as otherwise stated or provided for hereon, be constructed with the City of Albuquerque Standard Specifications for Public Works Construction - 1986, (referred to herein as the Standard Specifications).
2. Two (2) working days prior to any excavation, contractor must contact New Mexico One-Call Sys., at 260-1990, for location of existing utilities.
3. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer or surveyor so that the conflict can be resolved with minimum amount of delay.
4. All utilities and utility service lines shall be installed prior to paving.
5. Backfill compaction shall be according to specified street use.
6. Tack coat requirements shall be determined by the City Engineer.
7. Sidewalks and wheelchair ramps within the curb returns shall be constructed wherever a new curb is constructed.
8. If a curb is depressed for a drivepad or a wheelchair ramp, the drivepad or ramp shall be constructed prior to acceptance of the curb & gutter.
9. All storm drainage facilities shall be completed prior to final acceptance.
10. CONTRACTOR shall notify the ENGINEER not less than seven (7) days prior to starting work, in order that the ENGINEER may take necessary measures to insure the preservation of survey monuments. CONTRACTOR shall not disturb permanent survey monuments without the consent of the ENGINEER and shall notify the ENGINEER and bear the expense of replacing any that may be disturbed without permission. Replacement shall be done only by the ENGINEER. When a change is made in the finish elevation of the pavement of any roadway in which a permanent survey monument is located, CONTRACTOR shall, at his own expense, adjust the monument cover to the new grade, unless otherwise specified.

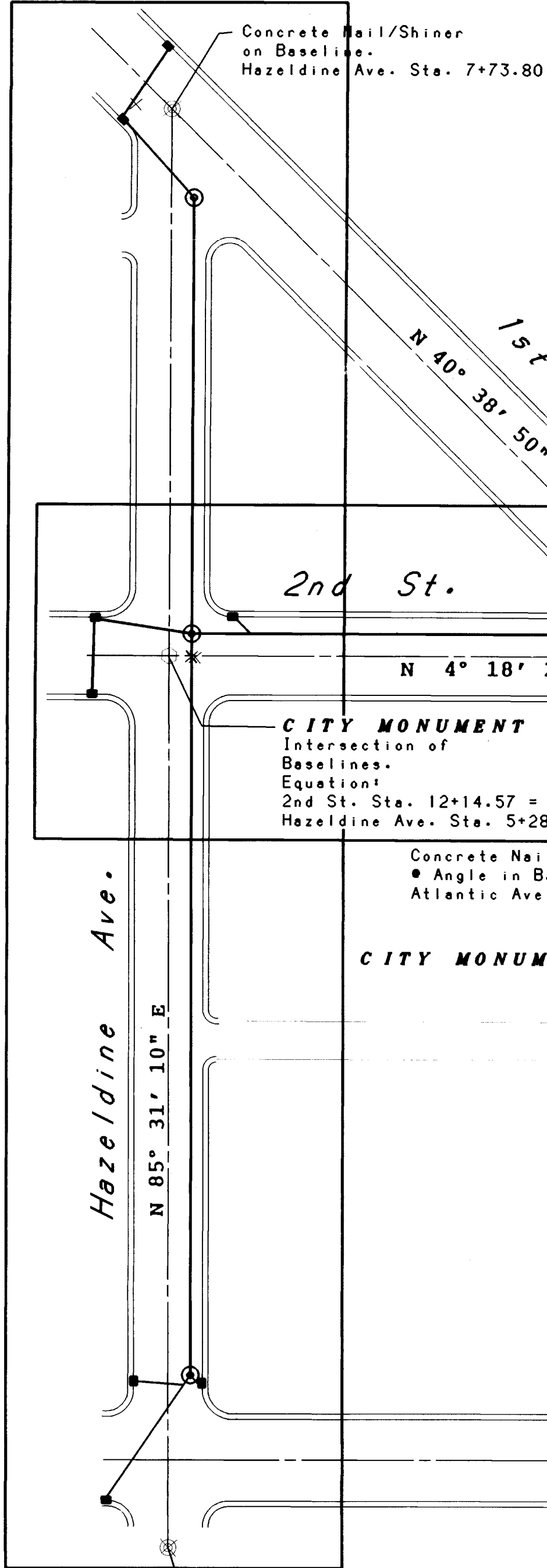
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	6	3	8	4	2	9	0	0	1	9	2			



REV	SHEETS	CITY ENGINEER	DATE	USER	DEPT.	DATE	USER	DEPT.	DATE
APPROVAL OF REVISIONS									

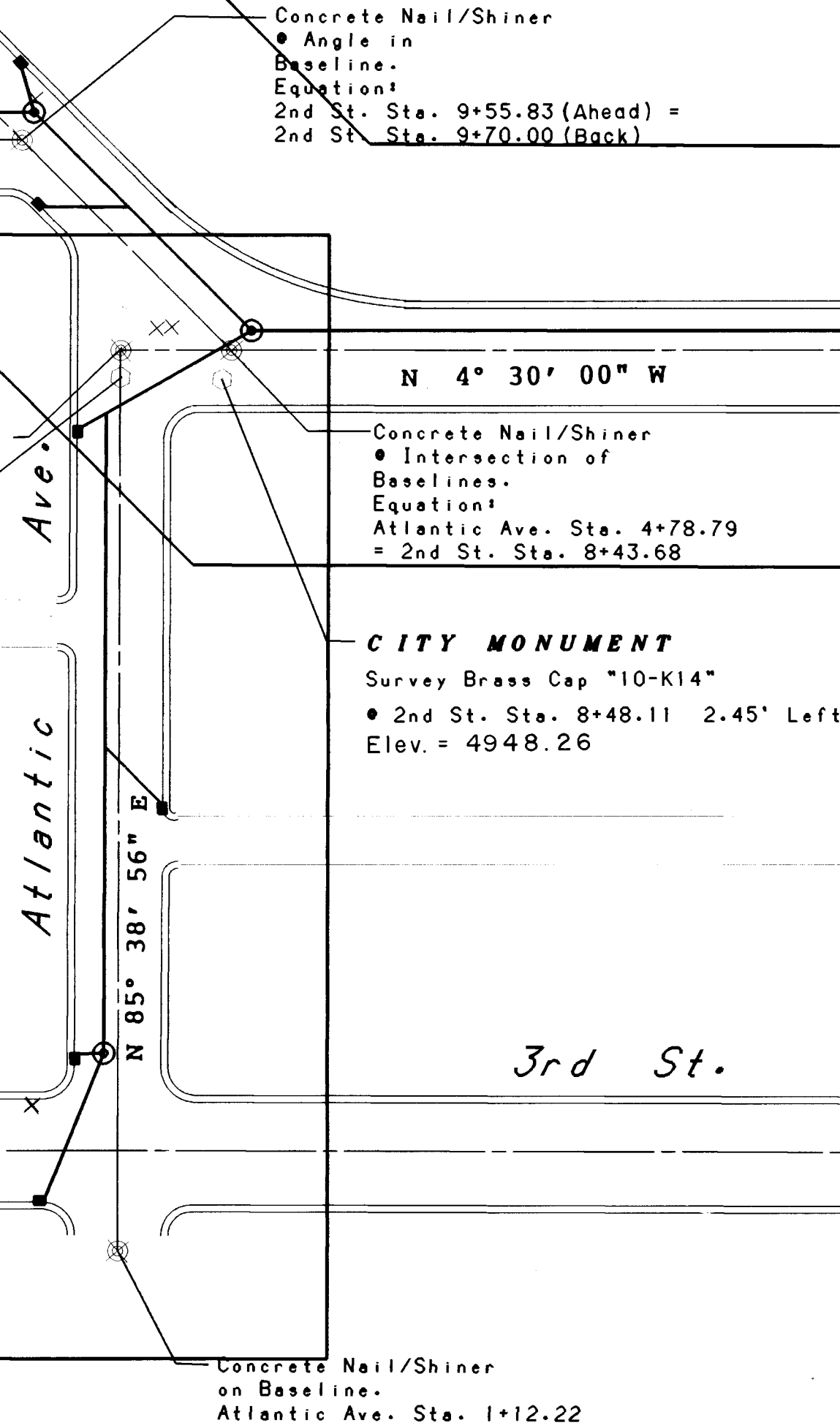
		APPROVED FOR CONSTRUCTION 11-8-00 C.E.
PROJECT NUMBER 3842.90		SHEET 1 OF 15

Sheet 6 of 15



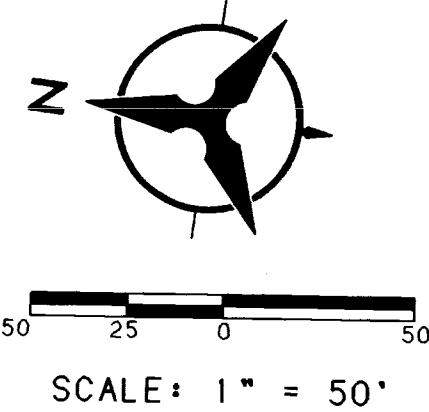
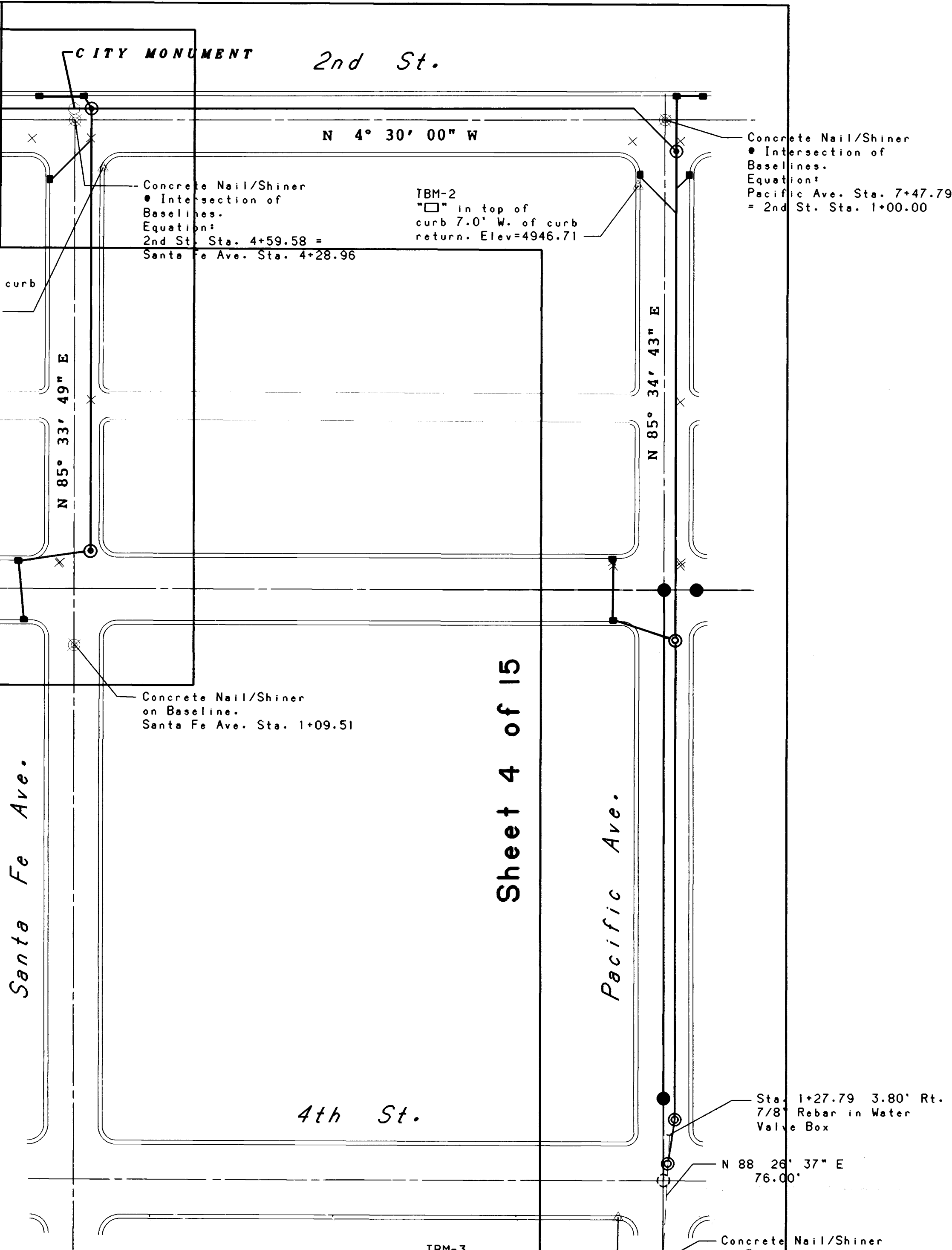
Sheet 6 of 15

Sheet 5 of 15



Sheet 5 of 15

Sheet 4 of 15



- LEGEND
- Proposed Storm Drain Line w/ Manhole
 - Proposed SD Inlet
 - Proposed San. Sewer Line w/ Manhole
 - Existing SD Manhole
 - Survey Baseline
 - Existing SAS Manhole
 - Exist. Curb & Gutter
 - Exist. Alley
 - City Monument
 - Concrete Nail/Shiner
 - Temp. Bench Mark
 - Pot Hole

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
26	38	42	90	06	29	2								

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: 4th Street Storm Drain Extension Project Overview and Survey Baseline					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>R.W. Kane</i>	11/6/20	WATER	<i>R.W. Kane</i>	11/6/20
TRANSPORTATION	<i>R.W. Kane</i>	11/6/20	WASTE WATER	<i>R.W. Kane</i>	11/6/20
HYDROLOGY	<i>R.W. Kane</i>	11/7/20			
DRAWING NO.	3842.90	MAP NO.	K -14	SHEET	2 OF 15

Refer to C.O.A. Standard Drawing #2405 for replacement of Pacific Avenue between 3rd and 4th Streets. All other pavement removed shall be replaced to existing lines and grades.

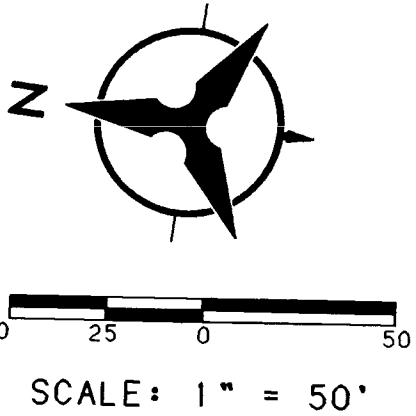
Pavement replacement for the following streets shall conform to Paving Section Details, Residential Section, Sheet 14 of 15:

Pacific Avenue
Santa Fe Avenue
Atlantic Avenue
Hazeldine Avenue
1st Street

Pavement replacement for the following streets shall conform to Paving Section Details, Arterial & Collector Section, Sheet 14 of 15:

2nd Street
3rd Street
4th Street

Refer to C.O.A. Standard Drawing #2465 for additional notes.



GENERAL NOTES:

Curb & gutter to be re-constructed to provide proper drainage. Match the existing Flow Lines & Top of Curbs.

Distances provided are approximate. Removal of existing features shall be to the nearest control joint, or sawcut.

Remove and replace existing curb & gutter at existing and proposed Storm Drain Inlets as noted on P & P Sheets.

Dimensions shown are from the end of curb returns.

Removal and replacement of all physical features (including, but not limited to curb and gutter, sidewalks and driveways) disturbed during construction, but not noted on this plan set, shall be at the expense of the Contractor, unless otherwise directed by the Engineer.

- A Existing sidewalk to remain undisturbed.
- B Existing driveway to remain undisturbed.
- C Tie new wheelchair Ramp to existing brick sidewalk. Coordinate with the Owner.

LEGEND

- Proposed Storm Drain Line w/ Manhole
- Proposed SD Inlet
- Proposed Sanitary Sewer Line w/ Manhole
- Existing SD Manhole
- Survey Baseline
- Existing SAS Manhole
- Exist. Curb & Gutter
- Exist. Alley
- Traffic Flow Direction
- Limits of Curb & Gutter Removal
- Limits of Pavement Removal

KEYED NOTES:

- 1 Remove & replace Standard Curb & Gutter per C.O.A. Standard Dwg. No. 2415.
- 2 Remove existing curb & gutter and concrete sidewalk. Construct Wheelchair Ramp, per C.O.A. Std. Dwg. No. 2440.
- 3 Remove existing curb & gutter and other miscellaneous material(s) at existing unpaved alleys, as necessary. Construct Conc. Valley Gutter, per C.O.A. Std. Dwg. No. 2420. Pave alley to Property Line, per Pavement Section, C.O.A. Std. Drawing No. 2405
- 4 Remove existing curb & gutter as required to Construct New Single "C" Storm Drain Inlet. (Not Used in this contract)
- 5 Remove & replace gutter at driveway, per C.O.A. Standard Drawing No. 2415.
- 6 Remove existing curb & gutter. Replace with Mountable Estate Type Curb, per C.O.A. Std. Dwg. No. 2415. Match to existing drive pad.
- 7 Remove & replace existing curb type sidewalk, per C.O.A. Std. Dwg. No. 2430.
- 8 Remove & replace existing driveway, per C.O.A. Standard Drawing No. 2425.
- 9 Remove existing curb & gutter and construct driveway per C.O.A. Std. Drawing No. 2425.

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: 4th Street Storm Drain Extension Pavement And Curb Removal			
APPROVALS	ENGINEER	DATE	APPROVALS
DRG CHAIRMAN	R. W. Kane	11/6/90	WATER
TRANSPORTATION	R. W. Kane	11/6/90	WASTE WATER
HYDROLOGY	R. W. Kane	11/6/90	
DRAWING NO.	3842.90	MAP NO.	K-14
SHEET 3		OF 15	

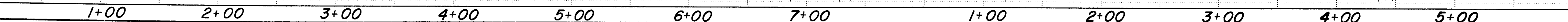
STATION	OFFSET	TOP OF CURB	FLOWLINE
4+91.09	16.44' Right	47.12 *1	46.45 Curb Return
5+00.00	16.44' Right	47.11	46.44
5+50.00	16.43' Right	47.05	46.38
5+58.53	16.42' Right	47.04	46.37 Curb Return
5+84.88	16.42' Right	47.01	46.34 Curb Return
6+00.00	16.42' Right	46.99	46.33
6+50.00	16.40' Right	46.93	46.27
7+00.00	16.39' Right	46.88	46.21
7+14.30	16.39' Right	46.86	46.19 Curb Return

*1 Taper (5 LF) top of curb to match existing (46.94)

See Intersection Detail,
Sheet 10 of 15



Design $Q_{10} = 47.3$
 $V_{10} = 3.76$



DRAWING NO. 3842 90

KEYED NOTES

(A)	Remove Exist. Storm Drain Manhole
(B)	Remove Exist. SD Inlet
(C)	Remove Exist. SAS MH
(D)	Abandon Exist. Storm Drain MH, remove Rim & Cover, plug & close w/ Concrete. Fill MH w/ CTB, & Pave over.

General Notes

- (1) Remove and dispose of Existing Storm Drain Inlet and Manholes, as noted.
- (2) Existing Storm Drain Inlet Lines to be plugged w/ Concrete and Abandoned in Place, or Removed as needed.
- (3) All Trench bedding for Storm Drain Pipe installation between Manholes shall be Class "C". Class "B" bedding shall be used for Storm Drain Pipe between Inlets and connecting Inlets to Manholes and Wyes.
- (4) Asphalt Pavement removed shall be replaced to existing lines and grades.
- (5) Details for Type 'C' Inlets are as per the pavement removals.
- (7) Stations and offsets for Storm Inlets are given to the center of the Inlet.

★ Hydraulic Grade Line (HGL) shown on profile assumes future replacement of existing 35" x 53" RCP downstream of Manhole 1A at Pacific Avenue and 4th Street.



CITY OF ALBUQUERQUE

Public Works Department

Engineering Group

TITLE: 4th STREET STORM DRAIN EXTENSION
STORM DRAIN PLAN & PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>Robert Rose</i>	11/8/90	WATER	<i>R.W. Kane</i>	11-6-90
TRANSPORTATION	<i>R. J. Smith</i>	11-07-90	WASTE WATER	<i>R.W. Kane</i>	11-6-90
HYDROLOGY	<i>George</i>	4/7/90			

DRAWING NO.	3842 90	MAP NO.	K-14	SHEET	4	OF	15
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AS BUILT INFORMATION	
CONTRACT NO.	
WORK ORDER NO.	
START BY	DATE
INSPECTED BY	DATE
APPROVED BY	DATE
CHECKED BY	DATE
VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS
A Standard ACS Brass Tablet, stamped "10-K14" Set in Concrete, under a Standard Water Meter Cover, located at the Junction of Second St. SW and Atlantic Ave. SW, on the Centerline of Second St. Elev. = 4948.262

[illegible]

ENGINEER'S SEAL

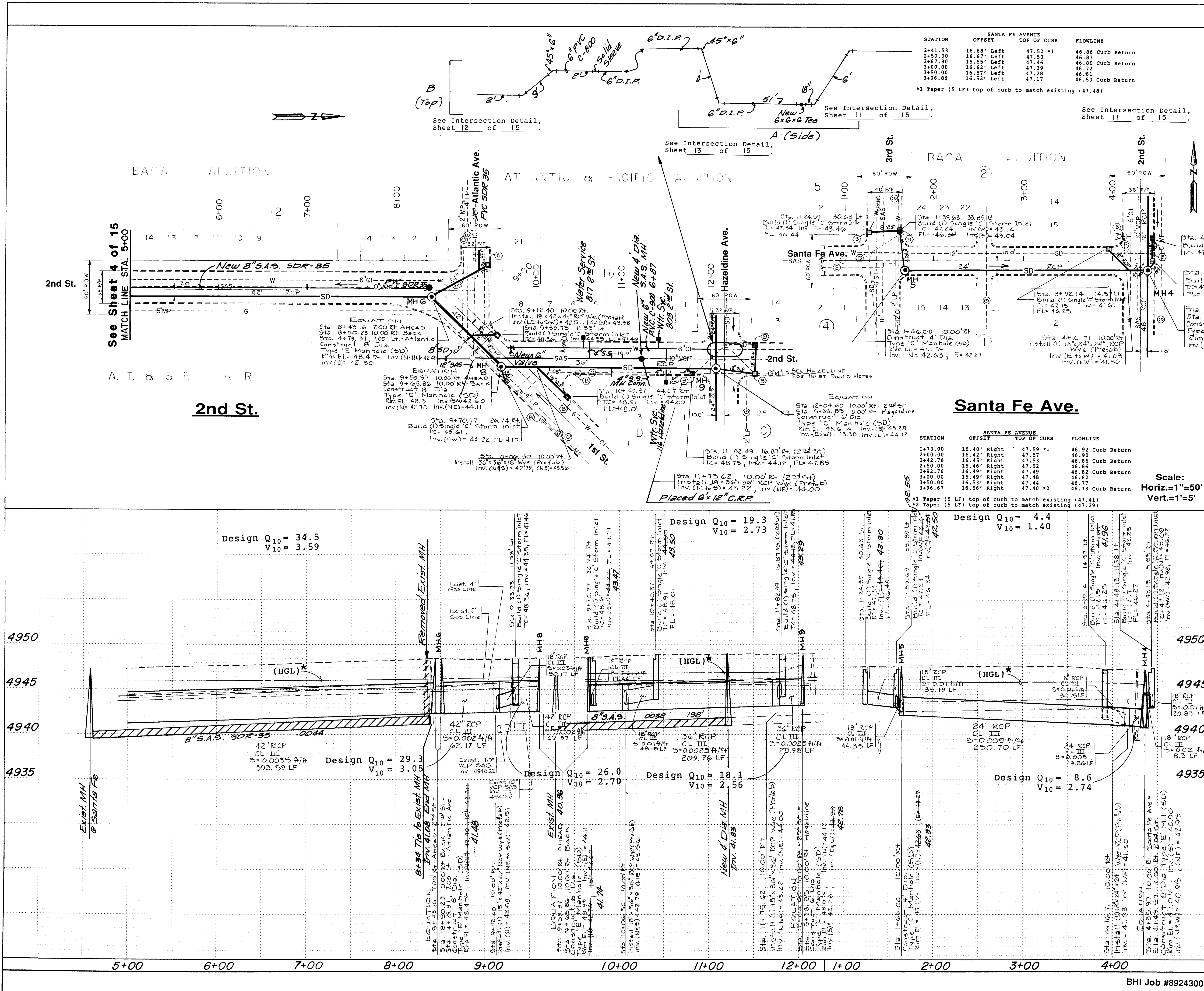
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DRAIN EXTENSION
& PROFILE

VALS	ENGINEER	DATE
	R.W. Kane	11-6-90
WATER	R.W. Kane	11-6-90

4 SHEET 4 OF 15



LEGEND

- Right of Way/Property Line
- New Storm Drain w/ Manhole
- Curb & Gutter
- New Single 'C' Storm Inlet
- Exist. Sanitary Sewer w/ Manhole
- Exist. Water Line w/ Valve
- Exist. Fire Hydrant
- Exist. Gas Line
- Exist. Storm Drain Line
- Flow Direction
- Survey Baseline

KEYED NOTES

- Remove Exist. Storm Drain Manhole
- Remove Exist. SD Inlet
- Remove Exist. SAS MH
- Abandon Exist. Storm Drain MH, remove Rim & Cover, plug Pipes w/ Concrete. Fill MH w/ C.T.B. & Pave over.

GENERAL NOTES

- Remove and dispose of Existing Storm Drain Inlet and Manholes, as noted.
- Existing Storm Drain Inlet Lines to be plugged w/ Concrete and Abandoned in Place, or Removed as needed.
- All Trench bedding for Storm Drain Pipe installation between Manholes shall be Class "C". Class "B" bedding shall be used for Storm Drain Pipe between Inlets and connecting Inlets to Manholes and Wyes.
- Asphalt Pavement removed shall be replaced to existing lines and grades.
- Details for Type 'C' Inlets are as per the pavement removals.
- Stations and offsets for Storm Inlets are given to the center of the Inlet.

ENGINEER'S SEAL

R.W. Kane
11/6/20

REVISIONS

NO	DATE	REVISIONS
1	11-6-20	DESIGN
2	11-6-20	DBG
3	11-6-20	DHG
4	11-6-20	DUG

CITY OF ALBUQUERQUE

Public Works Department
Engineering Group

TITLE: 4th STREET STORM DRAIN EXTENSION

STORM DRAIN PLAN & PROFILE

APPROVALS

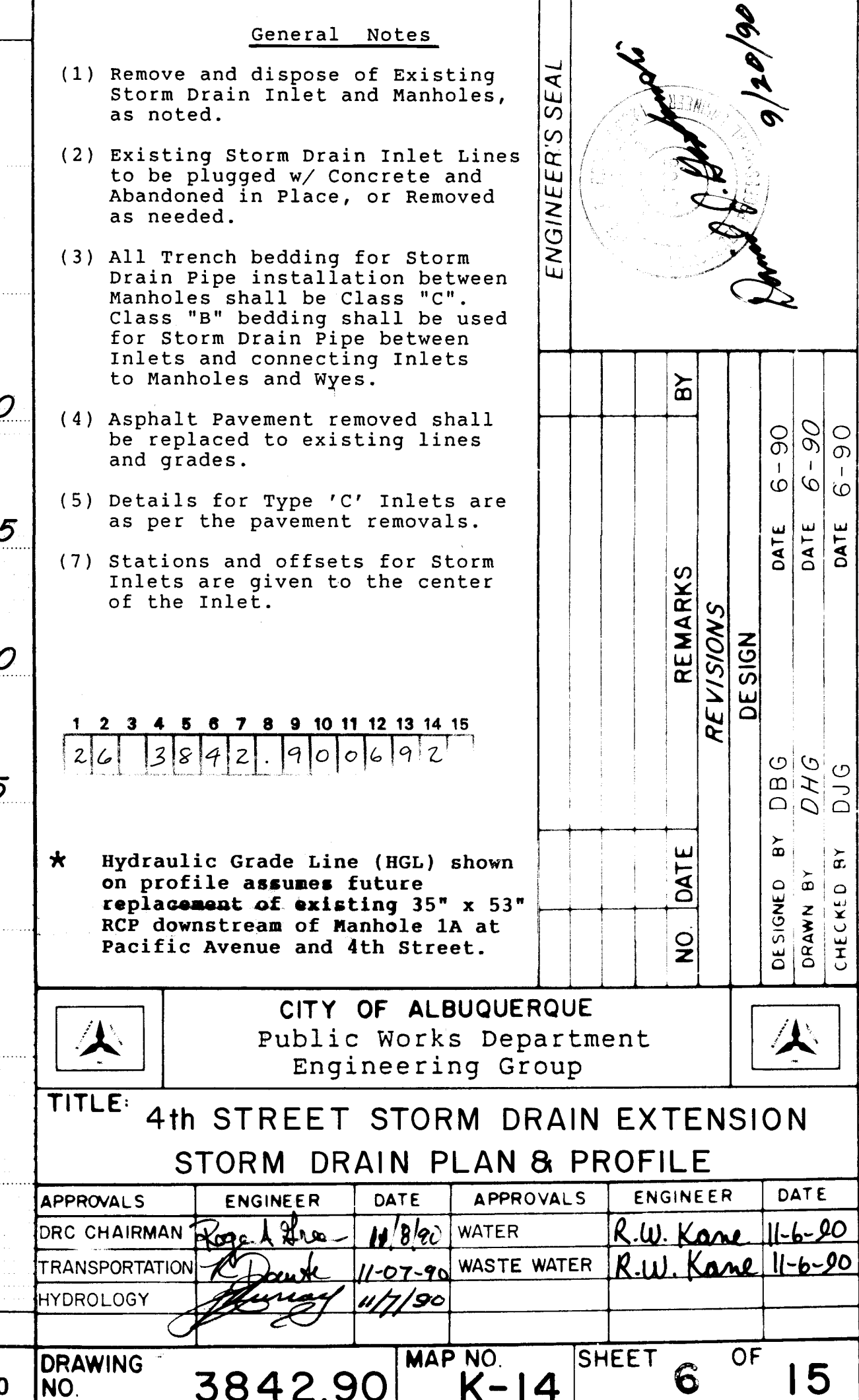
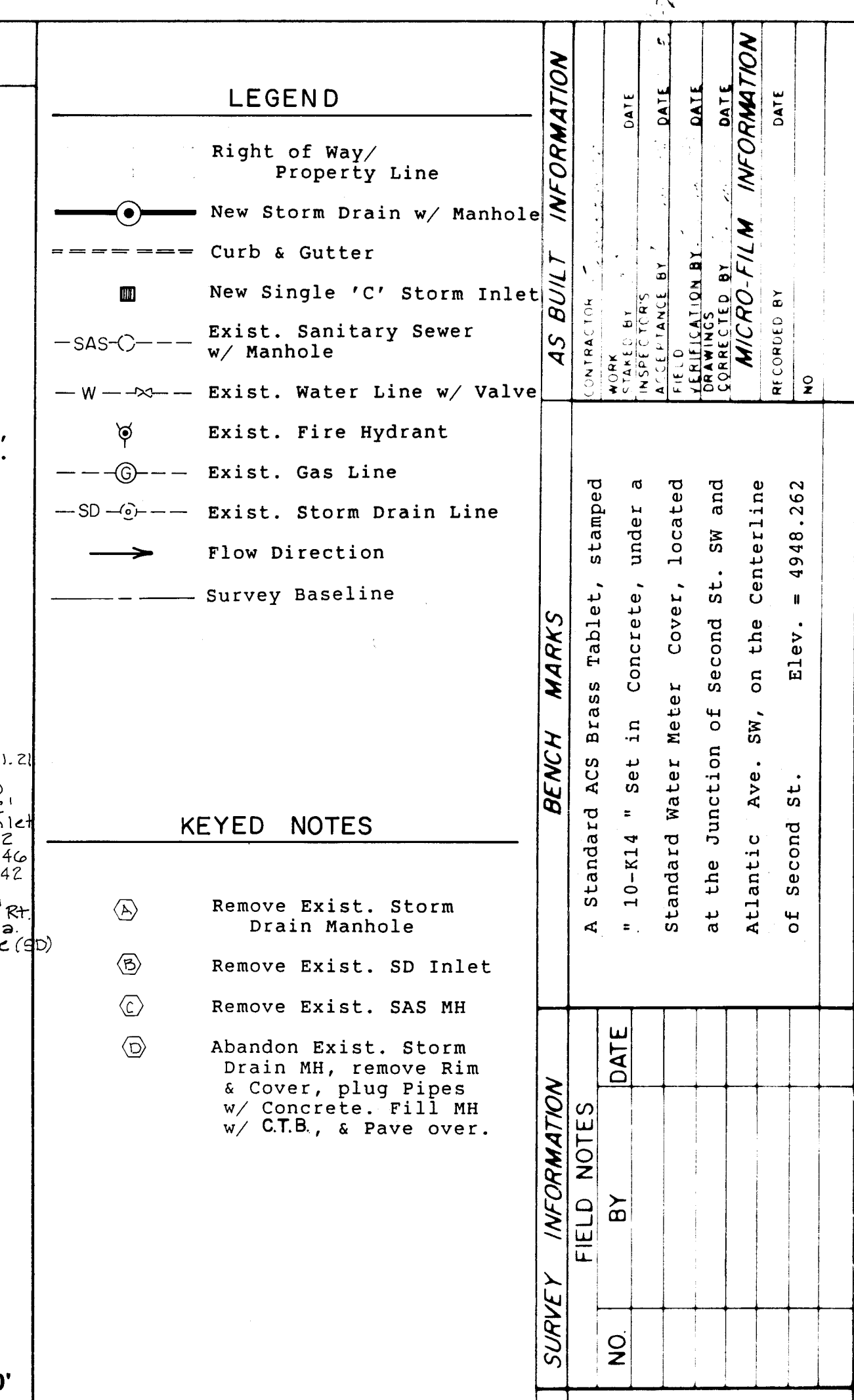
ENGINEER	DATE	APPROVALS	ENGINEER	DATE
R.W. Kane	11/6/20	WATER	R.W. Kane	11-6-20
R.W. Kane	11-6-20	WASTE WATER	R.W. Kane	11-6-20

DRAWING NO. 3842.90

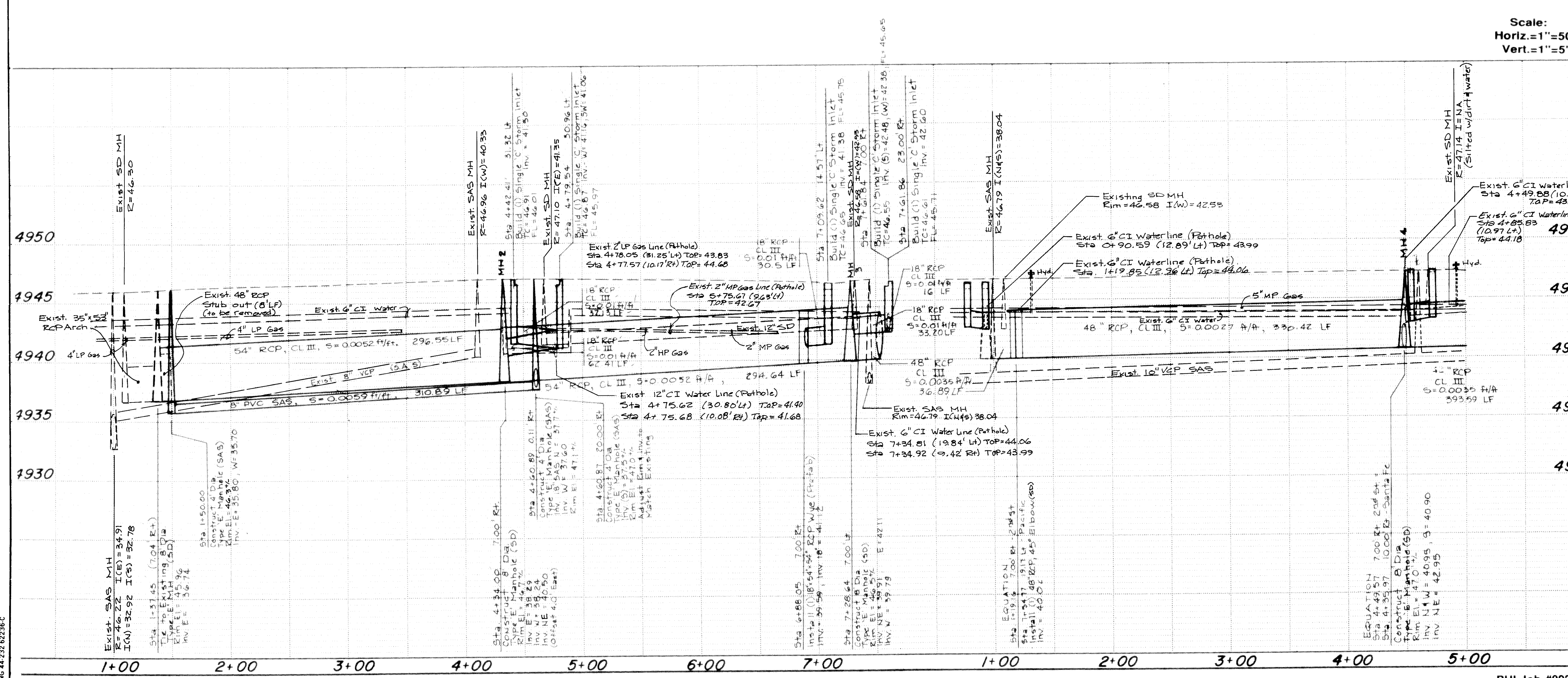
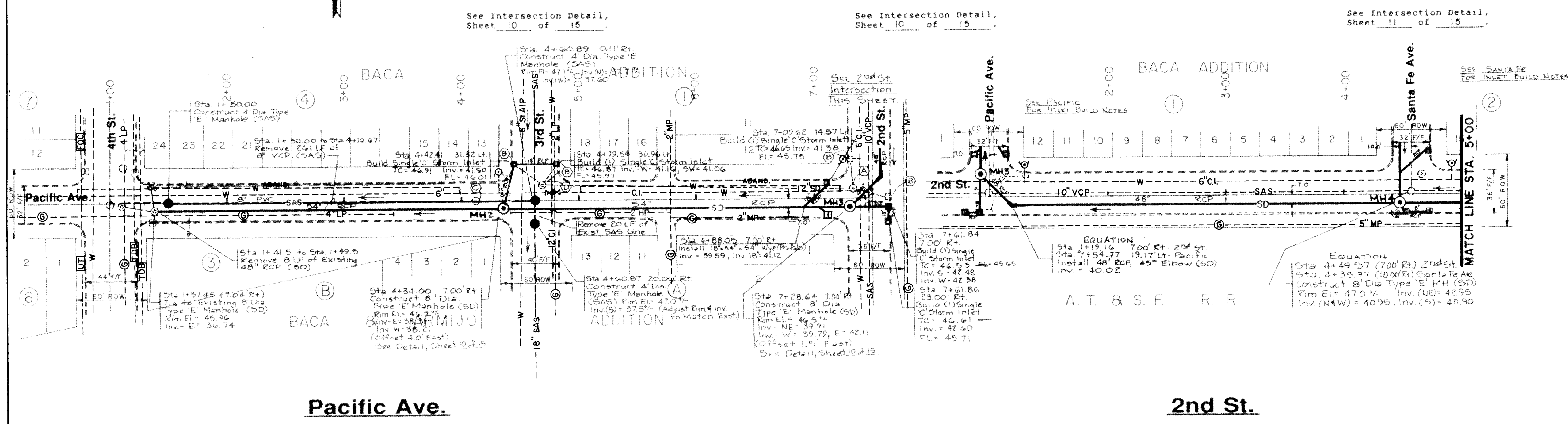
MAP NO. K-14

SHEET 5 OF 15

BHI Job #8924300



Existing Utilities -
NOT FOR CONSTRUCTION
See Sheet 4 of 15



LEGEND

- Right of Way/Property Line
- New Storm Drain w/ Manhole
- Curb & Gutter
- New Single 'C' Storm Inlet
- Exist. Sanitary Sewer w/ Manhole
- Exist. Water Line w/ Valve
- New Sanitary Sewer w/ MH
- Exist. Fire Hydrant
- Exist. Gas Line
- Exist. Storm Drain Line
- Flow Direction
- Underground Telephone Fiber Optics Cable
- Telephone - Duct Bank
- Abandon in Place
- Survey Baseline

KEYED NOTES

- Remove Exist. Storm Drain Manhole
- Remove Exist. SD Inlet
- Remove Exist. SAS MH
- Abandon Exist. Storm Drain MH, remove Rim & Cover, plug Pipes w/ Concrete. Fill MH w/ C.T.B. & Pave over.

General Notes

- Remove and dispose of Existing Storm Drain Inlet and Manholes, as noted.
- Existing Storm Drain Inlet Lines to be plugged w/ Concrete and Abandoned in Place, or Removed as needed.
- All Trench bedding for Storm Drain Pipe installation between Manholes shall be Class "C". Class "B" bedding shall be used for Storm Drain Pipe between Inlets and connecting Inlets to Manholes and Wyes.
- Asphalt Pavement removed shall be replaced to existing lines and grades.
- Details for Type 'C' Inlets are as per the pavement removals.
- Stations and offsets for Storm Inlets are given to the center of the Inlet.

AS BUILT INFORMATION

CONTRACTOR	DATE

BENCH MARKS

A Standard ACS Brass Tablet, stamped "10-K14" Set in Concrete, under a Standard Water Meter Cover, located at the Junction of Second St. SW and Atlantic Ave. SW, on the Centerline of Second St. Elev. = 4948.262

SURVEY INFORMATION

NO.	BY	DATE

ENGINEER'S SEAL

REVISIONS

NO.	DATE	REMARKS

DESIGNED BY DBG **DATE** 6-90
DRAWN BY DHG **DATE** 6-90
CHECKED BY DJG **DATE** 6-90

CITY OF ALBUQUERQUE
Public Works Department
Engineering Group

TITLE: 4th STREET STORM DRAIN EXTENSION
EXISTING UTILITIES PLAN & PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		4/6/90	WATER	R.W. Kane	11-6-90
TRANSPORTATION		11/01/90	WASTE WATER	R.W. Kane	11-6-90
HYDROLOGY		11/1/90			

DRAWING NO. 3842.90 **MAP NO.** K-14 **SHEET** 7 **OF** 15

BHI Job #8924300

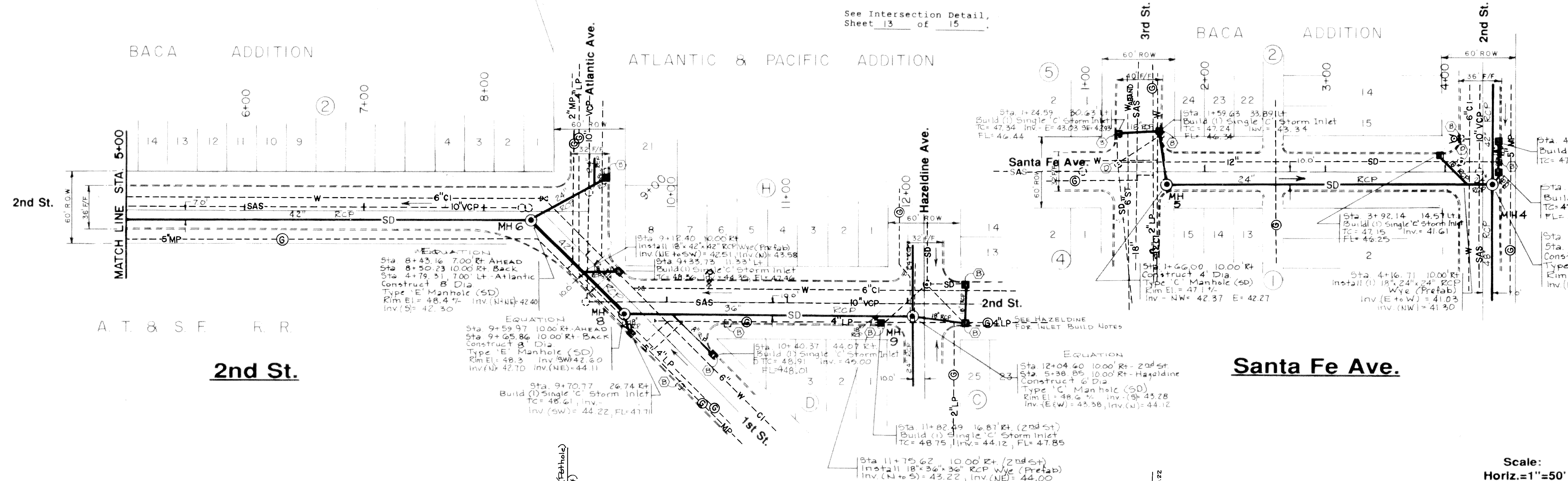
Existing Utilities -
NOT FOR CONSTRUCTION
See Sheet 5 of 15

See Intersection Detail,
Sheet 12 of 15

See Intersection Detail,
Sheet 13 of 15

See Intersection Detail,
Sheet 11 of 15

See Intersection Detail,
Sheet 11 of 15



LEGEND	
	Right of Way/Property Line
	New Storm Drain w/ Manhole
	Curb & Gutter
	New Single 'C' Storm Inlet
	Exist. Sanitary Sewer w/ Manhole
	Exist. Water Line w/ Valve
	Exist. Fire Hydrant
	Exist. Gas Line
	Exist. Storm Drain Line
	Flow Direction
	Survey Baseline

KEYED NOTES

- Remove Exist. Storm Drain Manhole
- Remove Exist. SD Inlet
- Remove Exist. SAS MH
- Abandon Exist. Storm Drain MH, remove Rim & Cover, plug Pipes w/ Concrete. Fill MH w/ C.T.B. & Pave over.

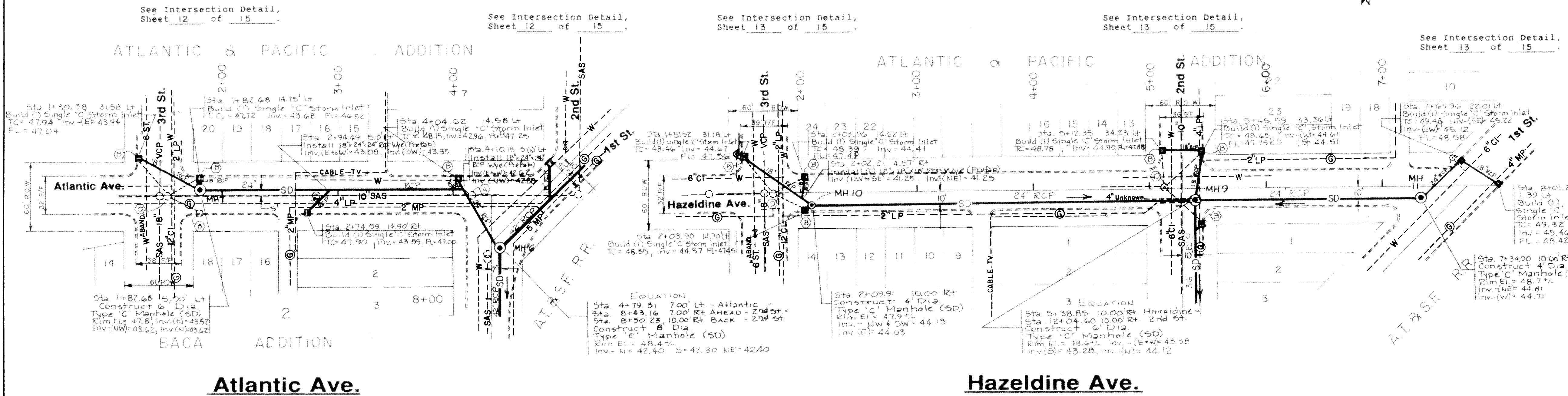
General Notes

- Remove and dispose of Existing Storm Drain Inlet and Manholes, as noted.
- Existing Storm Drain Inlet Lines to be plugged w/ Concrete and Abandoned in Place, or Removed as needed.
- All Trench bedding for Storm Drain Pipe installation between Manholes shall be Class "C". Class "B" bedding shall be used for Storm Drain Pipe between Inlets and connecting Inlets to Manholes and Wyes.
- Asphalt Pavement removed shall be replaced to existing lines and grades.
- Details for Type 'C' Inlets are as per the pavement removals.
- Stations and offsets for Storm Inlets are given to the center of the Inlet.

26 3842.900892

CITY OF ALBUQUERQUE Public Works Department Engineering Group					
TITLE: 4th STREET STORM DRAIN EXTENSION EXISTING UTILITIES PLAN & PROFILE					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	11-01-90	11-01-90	WATER	R.W. Kane	11-6-90
TRANSPORTATION	11-01-90	11-01-90	WASTE WATER	R.W. Kane	11-6-90
HYDROLOGY	11-01-90	11-01-90			
DRAWING NO.	3842.90	MAP NO.	K-14	SHEET	8 OF 15

Existing Utilities -
NOT FOR CONSTRUCTION
See Sheet 6 of 15



LEGEND	
	Right of Way/Property Line
	New Storm Drain w/ Manhole
	Curb & Gutter
	New Single 'C' Storm Inlet
	Exist. Sanitary Sewer w/ Manhole
	Exist. Water Line w/ Valve
	Exist. Fire Hydrant
	Exist. Gas Line
	Exist. Storm Drain Line
	Flow Direction
	Survey Baseline

KEYED NOTES

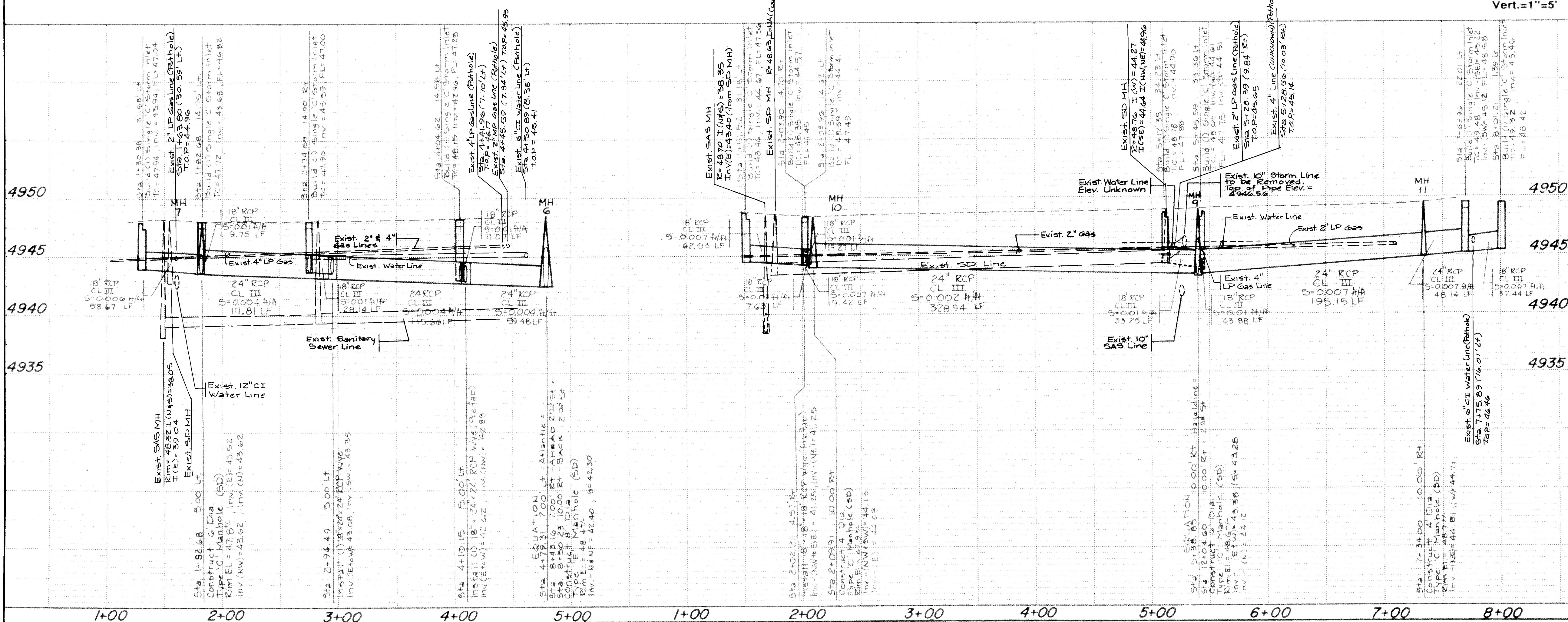
- Remove Exist. Storm Drain Manhole
- Remove Exist. SD Inlet
- Remove Exist. SAS MH
- Abandon Exist. Storm Drain MH, remove Rim & Cover, plug Pipes w/ Concrete. Fill MH w/ J.T.B. & Pave over.

Scale:
Horiz.=1"=50'
Vert.=1"=5'

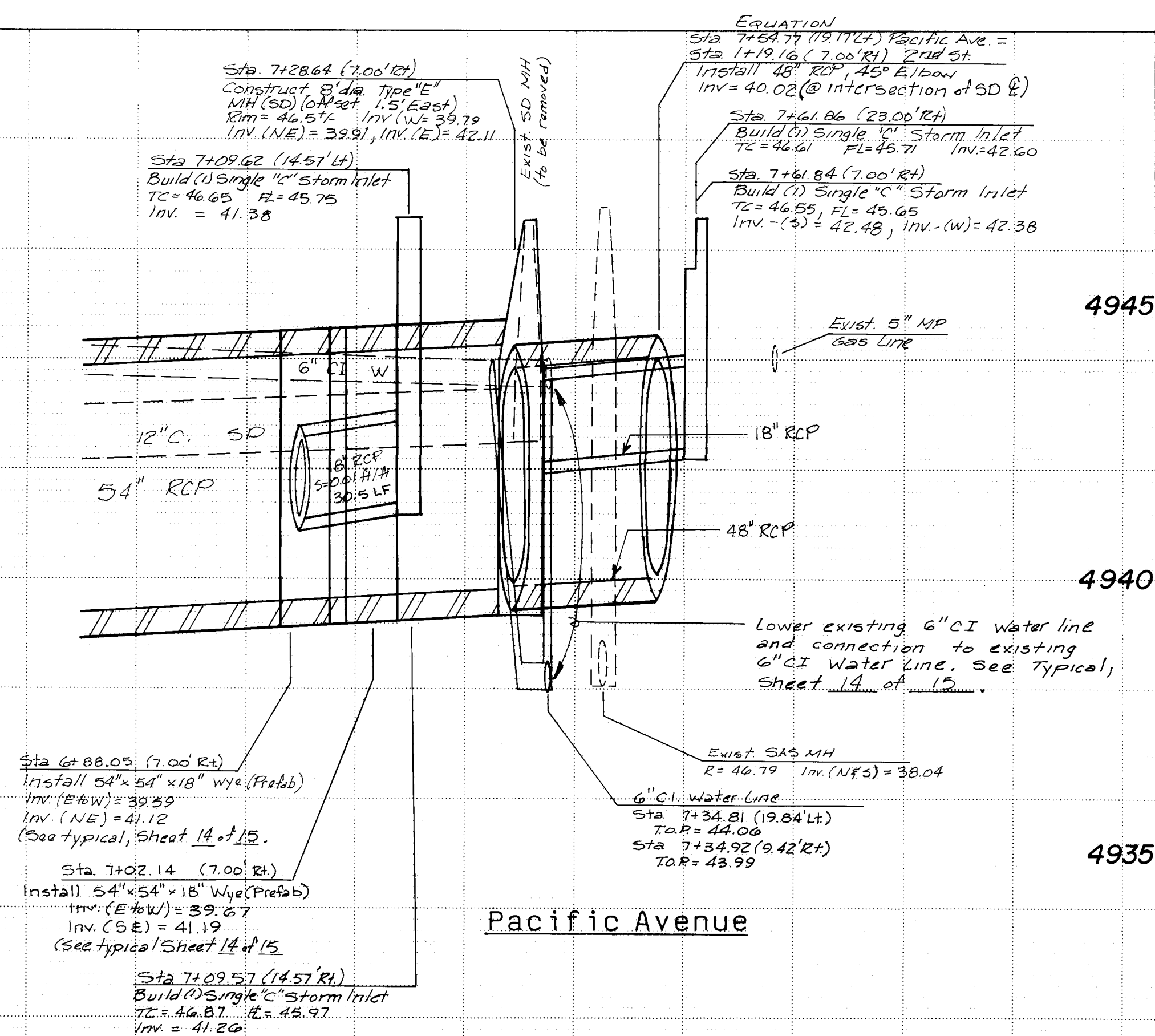
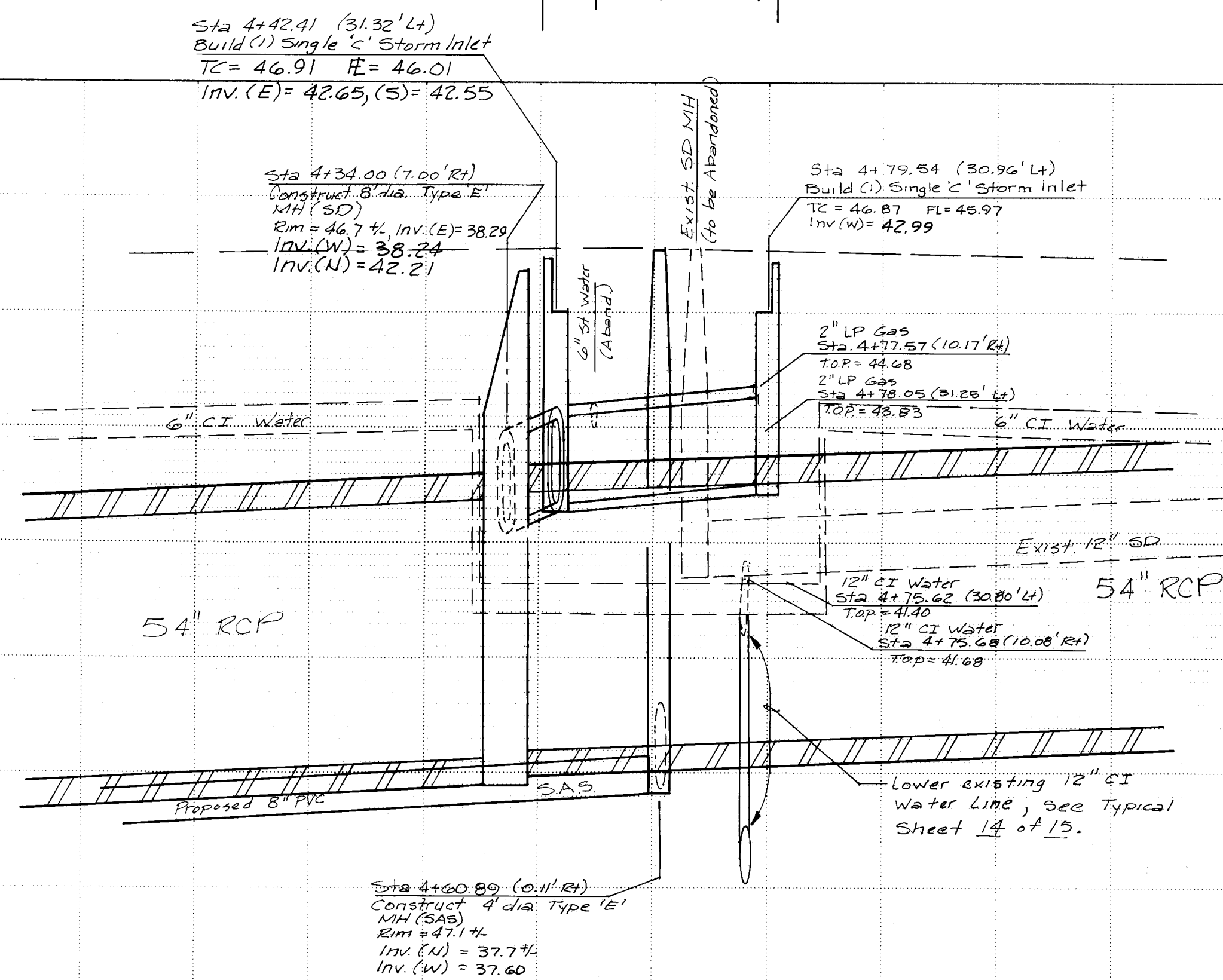
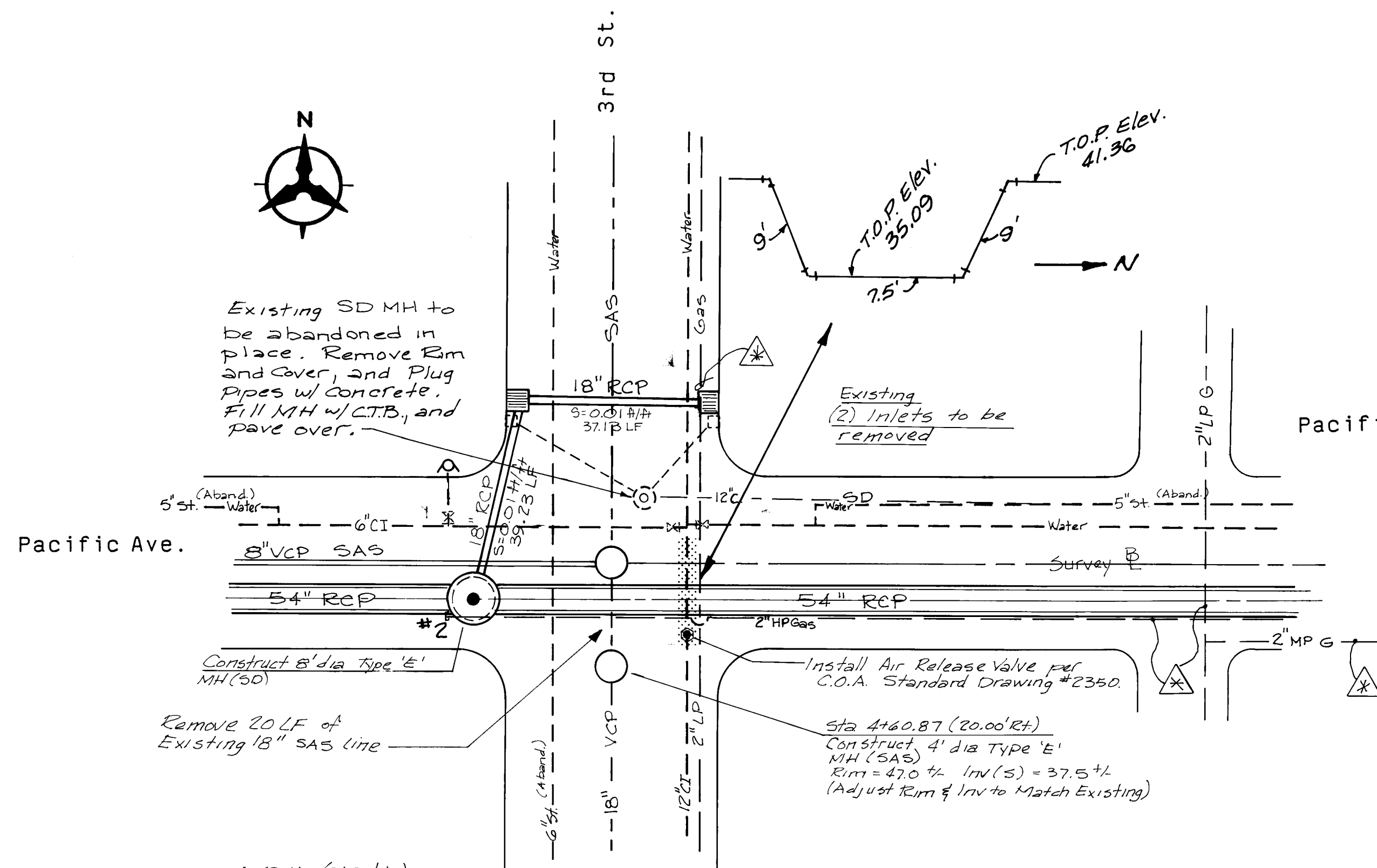
General Notes

- Remove and dispose of Existing Storm Drain Inlet and Manholes, as noted.
- Existing Storm Drain Inlet Lines to be plugged w/ Concrete and Abandoned in Place, or Removed as needed.
- All Trench bedding for Storm Drain Pipe installation between Manholes shall be Class "C". Class "B" bedding shall be used for Storm Drain Pipe between Inlets and connecting Inlets to Manholes and Wyes.
- Asphalt Pavement removed shall be replaced to existing lines and grades.
- Details for Type 'C' Inlets are as per the pavement removals.
- Stations and offsets for Storm Inlets are given to the center of the Inlet.

26 3842.900992

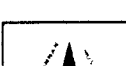


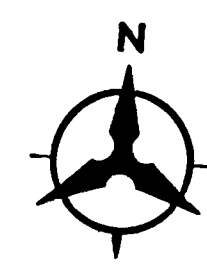
CITY OF ALBUQUERQUE Public Works Department Engineering Group					
TITLE: 4th STREET STORM DRAIN EXTENSION EXISTING UTILITIES PLAN & PROFILE					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN		11/6/20	WATER	R.W. Kane	11-6-20
TRANSPORTATION		11/7/20	WASTE WATER	R.W. Kane	11-6-20
HYDROLOGY		11/7/20			
DRAWING NO.	3842.90	MAP NO.	K-14	SHEET	9 OF 15



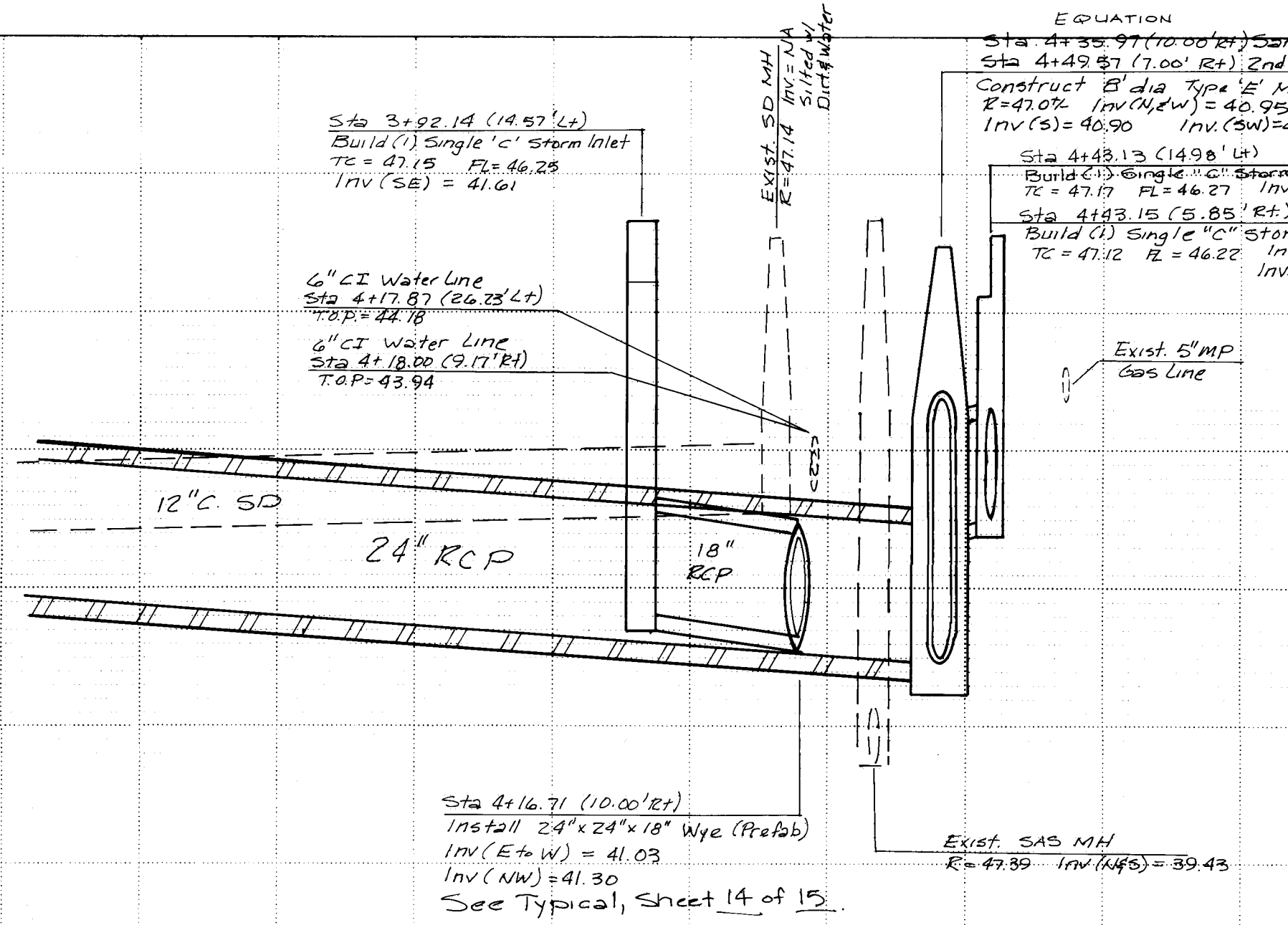
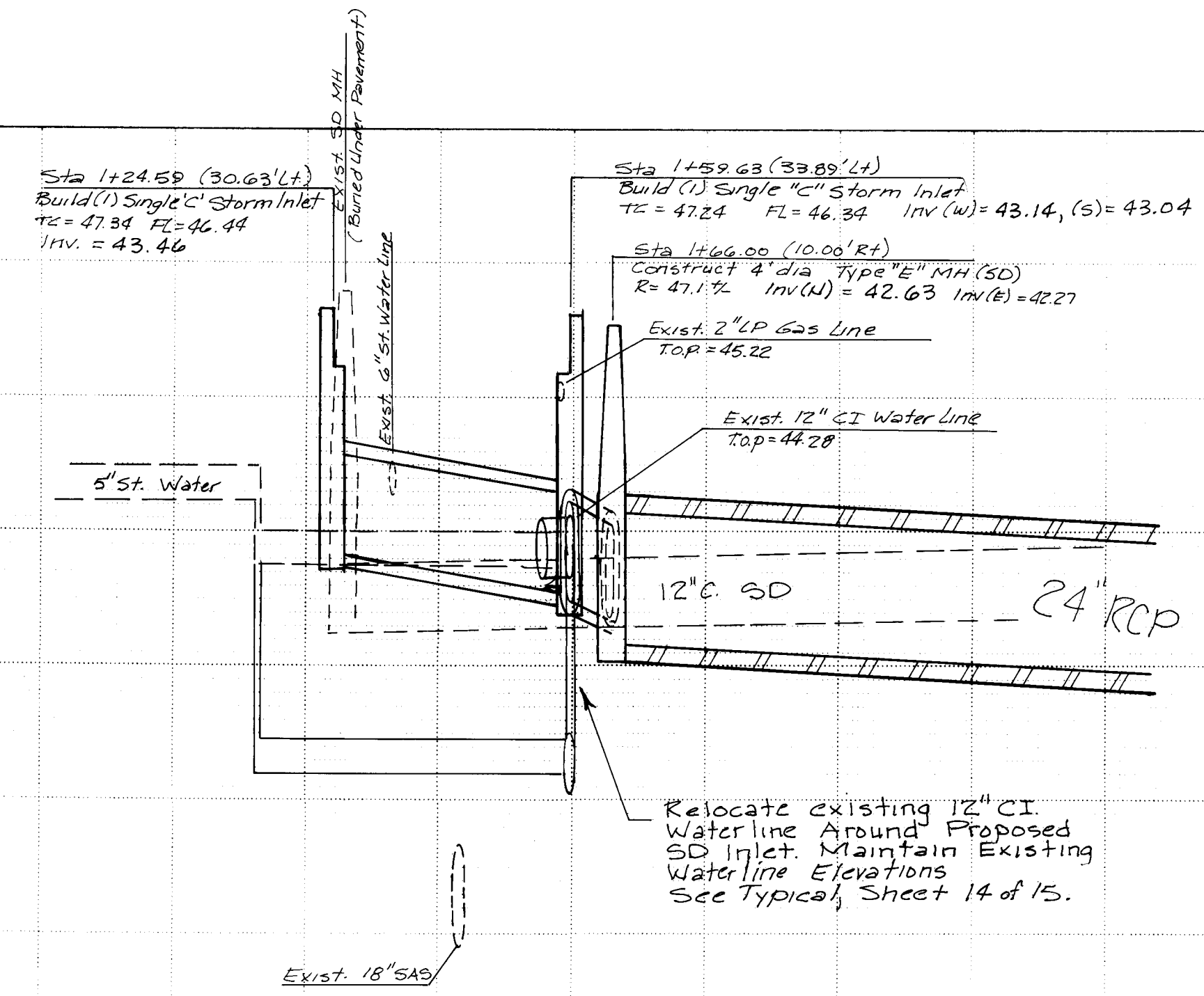
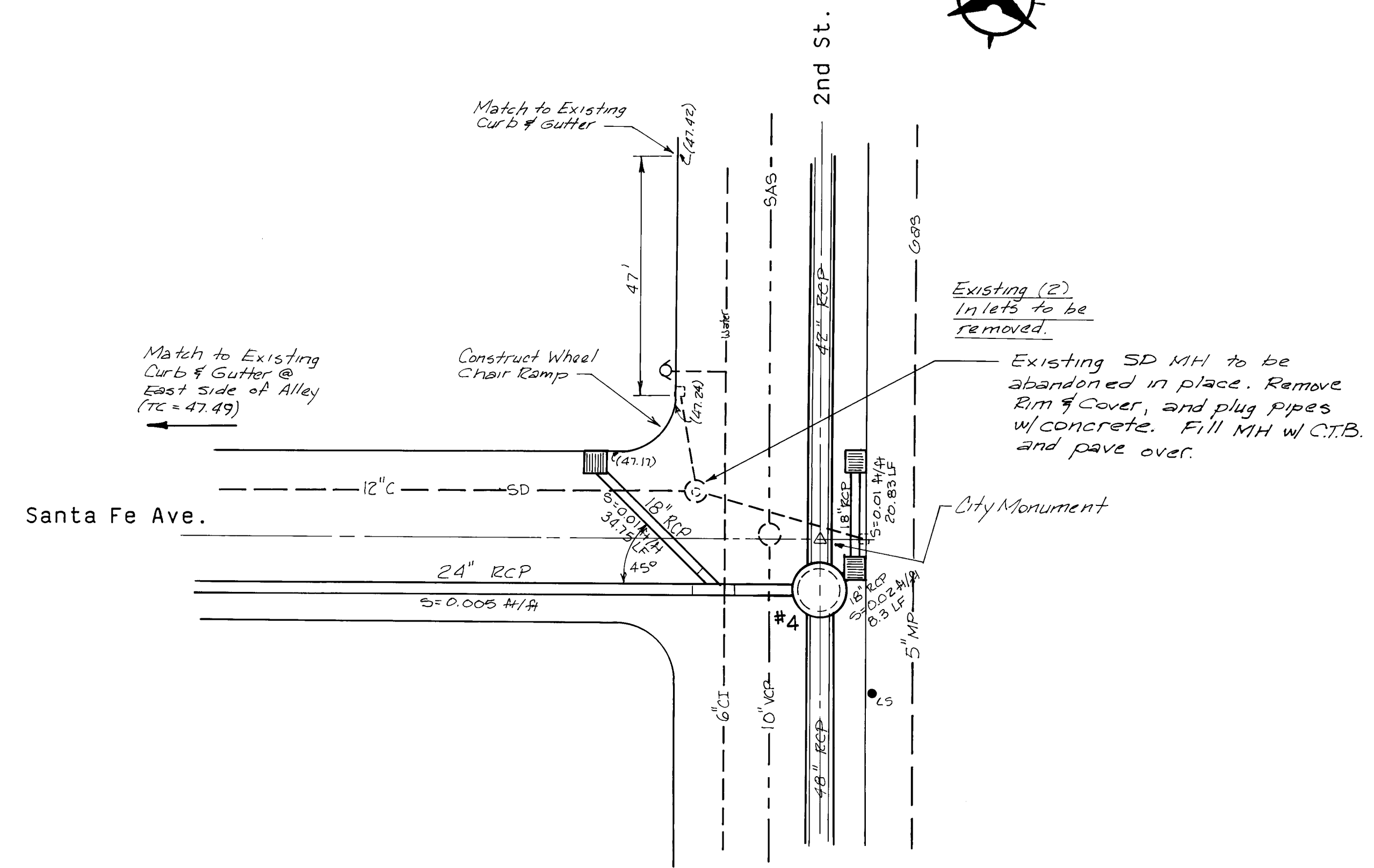
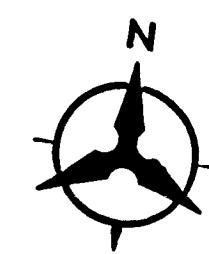
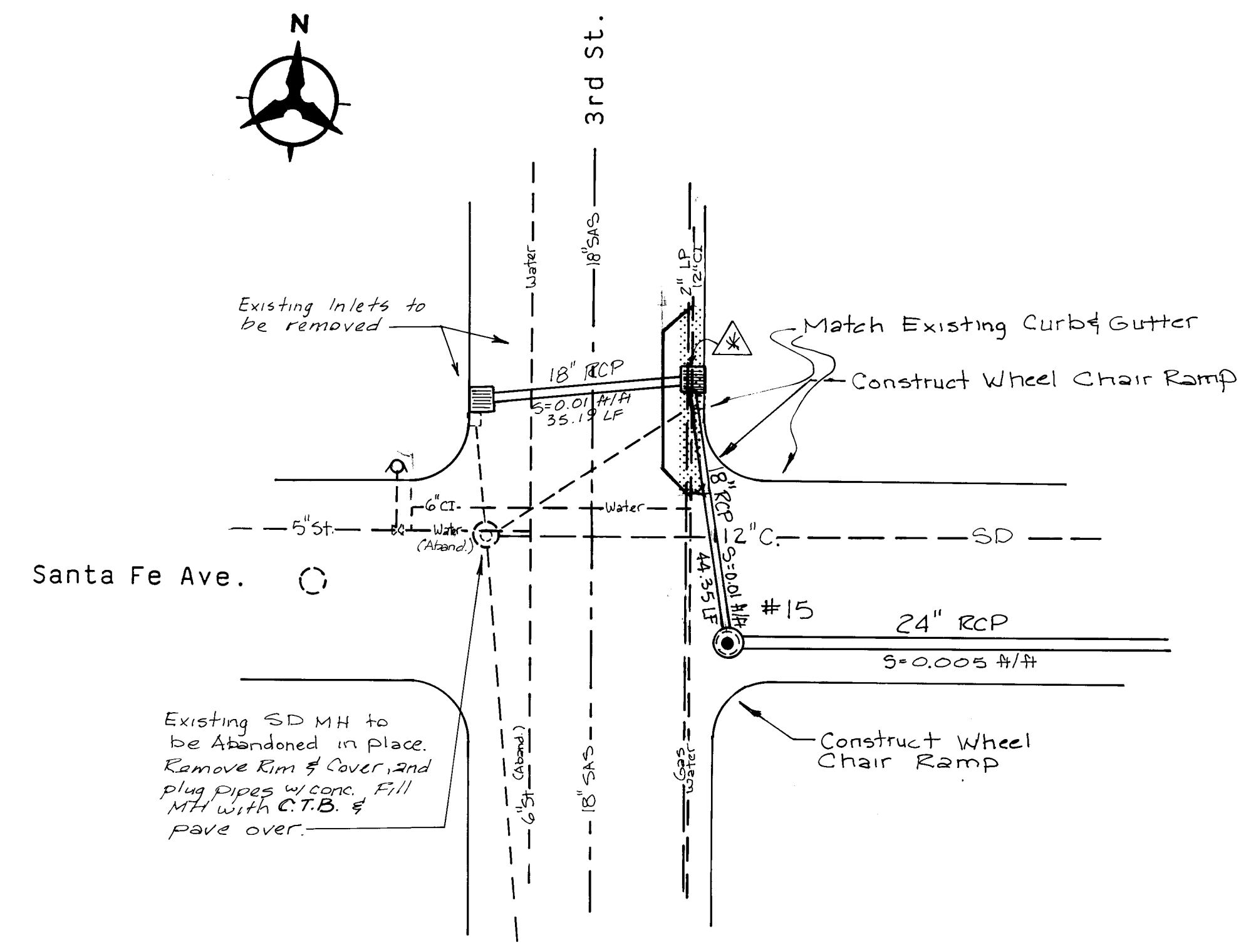
..... = Actual Limits of Water
Line relocation
to be determined in the
field.

Scale:
 Horiz. : 1" = 20'
 Vert. : 1" = 2'

		CITY OF ALBUQUERQUE Public Works Department Engineering Group									
TITLE: 4th Street Storm Drain Extension Intersection Details for Pacific Ave.											
APPROVALS		ENGINEER		DATE		APPROVALS		ENGINEER		DATE	
DRC Chairman		<i>R. W. Kane</i>		11/6/90		Water		<i>R. W. Kane</i>		11-6-90	
Transportation		<i>R. W. Kane</i>		11-07-90		Waste Water		<i>R. W. Kane</i>		11-6-90	
Hydrology		<i>J. H. Hargis</i>		11/7/90							
DRAWING NO.				MAP NO.		SHEET		OF			
3842.90				K-14		10		15			



= NOTE:
Contractor shall coordinate with the
Gas Company of New Mexico, to determine
if line relocation is necessary.



----- = Actual Limits of Water
Line relocation
to be determined in the
field.

1	2	3	4	5	6	7	8	9	10	11	12	13	14
2	6	3	8	4	2	9	0	1	1	9	2		

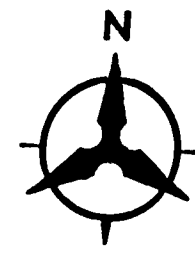
Scale:
Horiz.: 1" = 20'
Vert.: 1" = 2'

AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL			REVISIONS			DESIGNED BY			DRAWN BY			CHECKED BY		
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
See Sheets 4 Through 9 for Survey Bench Marks.												DESIGN			DBG			DHG			DJG		

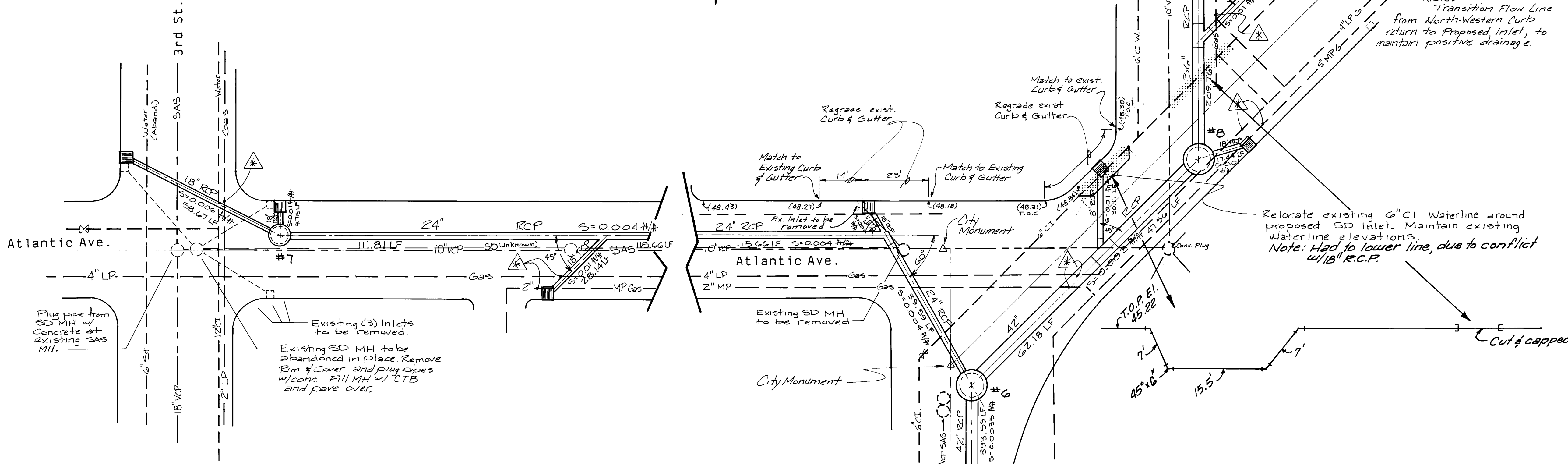
CITY OF ALBUQUERQUE Public Works Department Engineering Group					
TITLE: 4th Street Storm Drain Extension Intersection Details for Santa Fe Ave.					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chairman		11/9/90	Water	R.W. Kane	11-6-90
Transportation		11/9/90	Waste Water	R.W. Kane	11-6-90
Hydrology		11/7/90			
DRAWING NO.	3842.90	MAP NO.	K-14	SHEET	11 OF 15

BRUNING 44-237-62-26-C

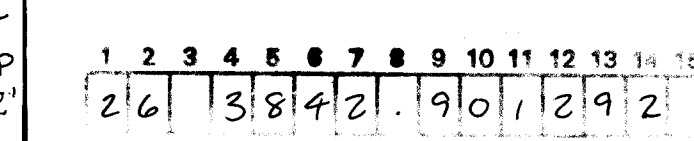
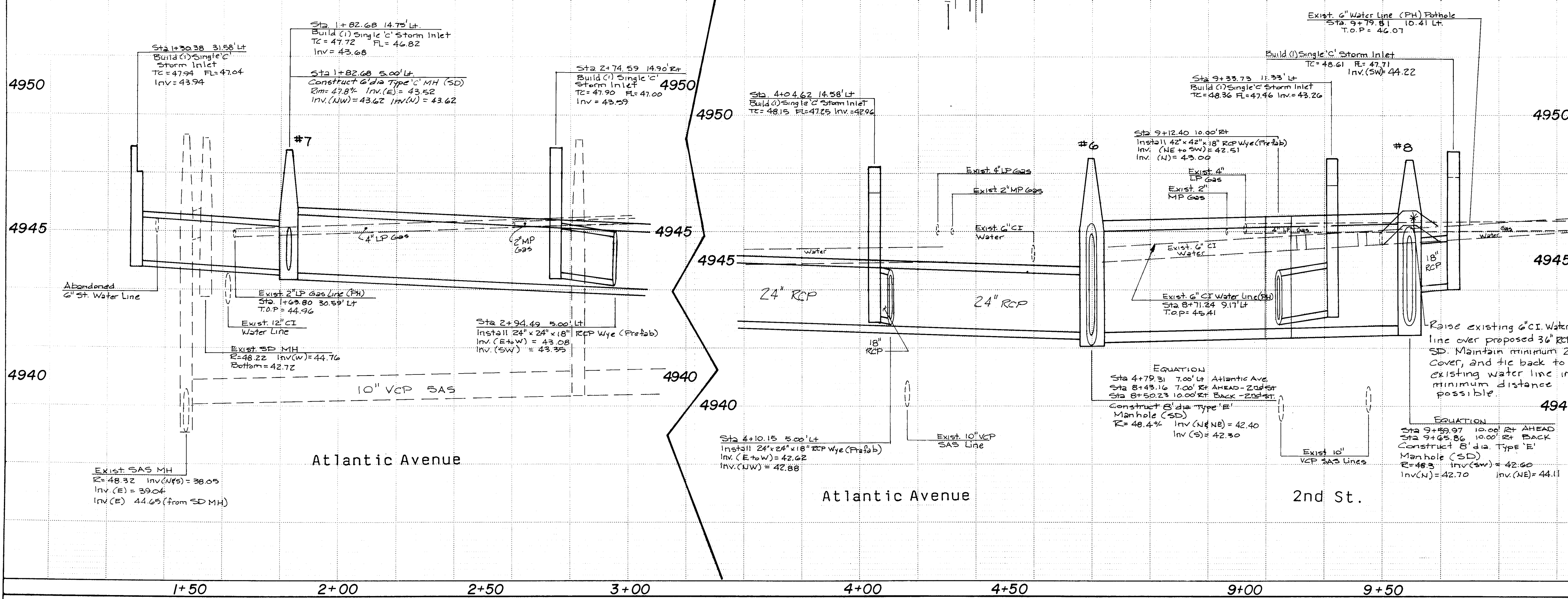
NOTE:
Contractor shall coordinate with the
Gas Company of New Mexico, to determine
if line relocation is necessary.



Not Shown in
Profile See
Sheet 5 of 15.

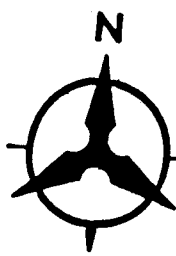


Actual Limits of Water
Line relocation
to be determined in the
field.

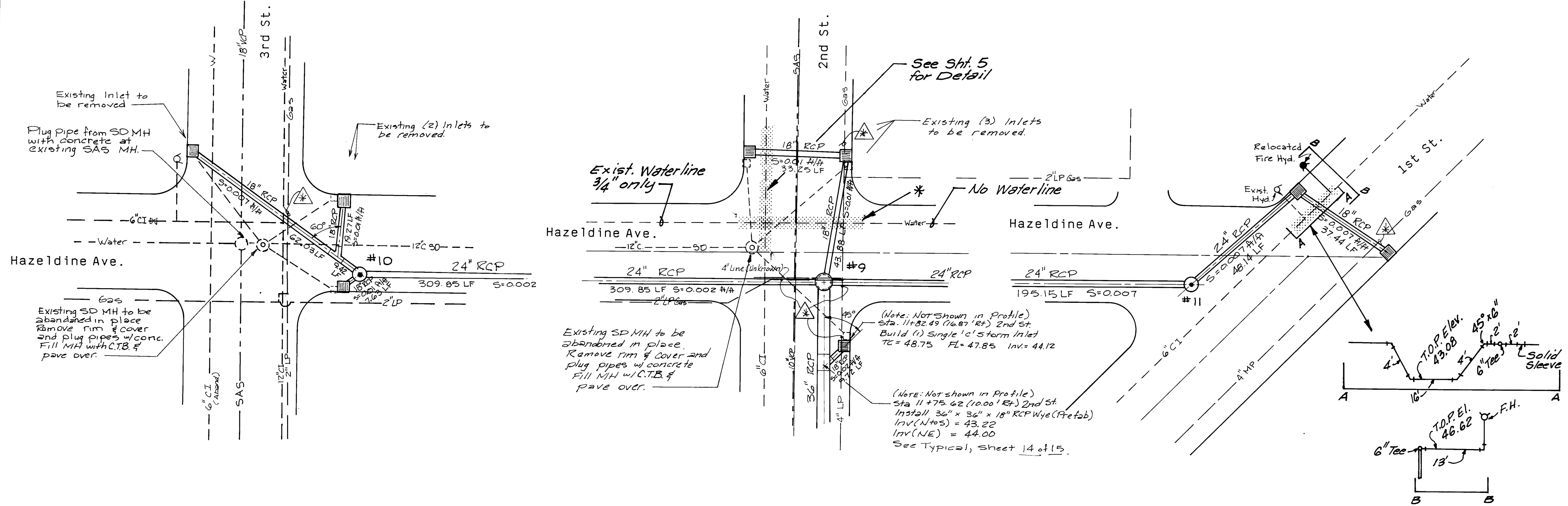


Scale:
Horiz.: 1" = 20'
Vert.: 1" = 2'

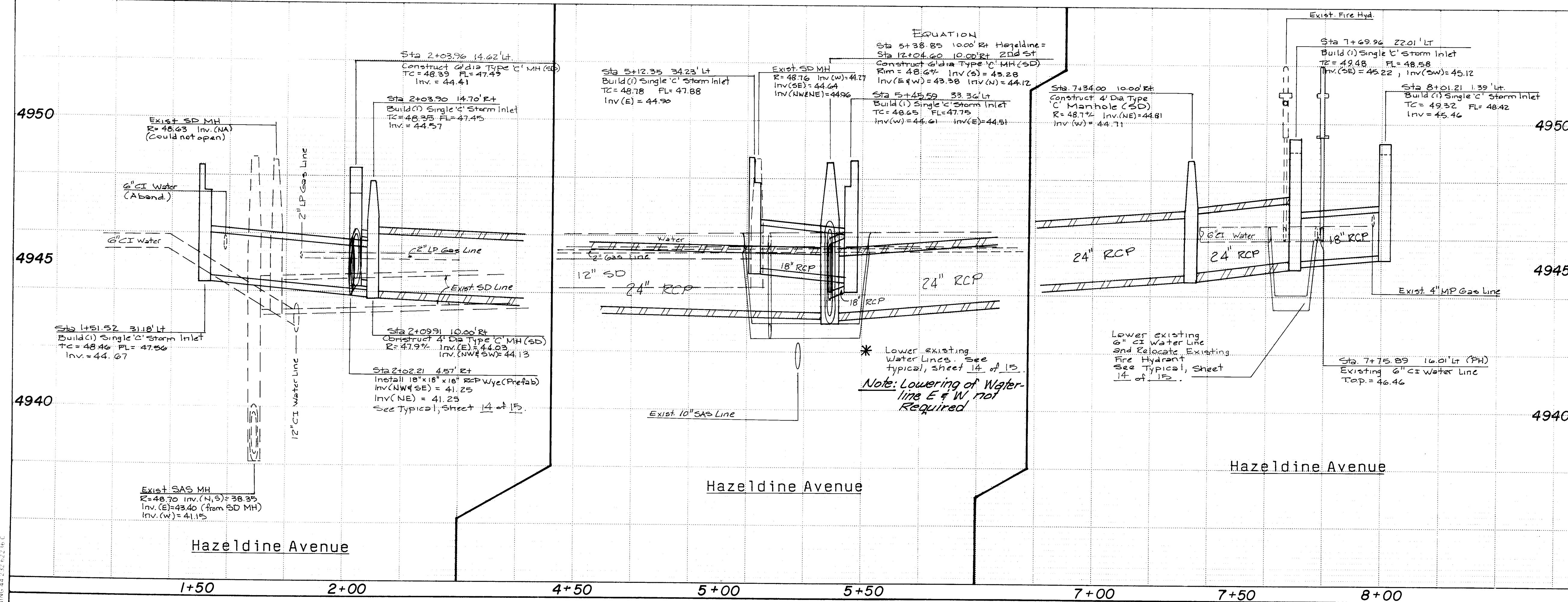
CITY OF ALBUQUERQUE Public Works Department Engineering Group					
TITLE: 4th Street Storm Drain Extension Intersection Details for Atlantic Ave.					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chairman	Roy J. Rios	11/8/90	Water	R.W. Kane	11-6-90
Transportation	R. Rios	11-07-90	Waste Water	R.W. Kane	11-6-90
Hydrology	Blaney	11/7/90			
DRAWING NO.	3842.90	MAP NO.	K-14	SHEET	12 OF 15



NOTE:
Contractor shall coordinate with the Gas Company of New Mexico, to determine if line relocation is necessary.



Actual Limits of Water Line relocation to be determined in the field.



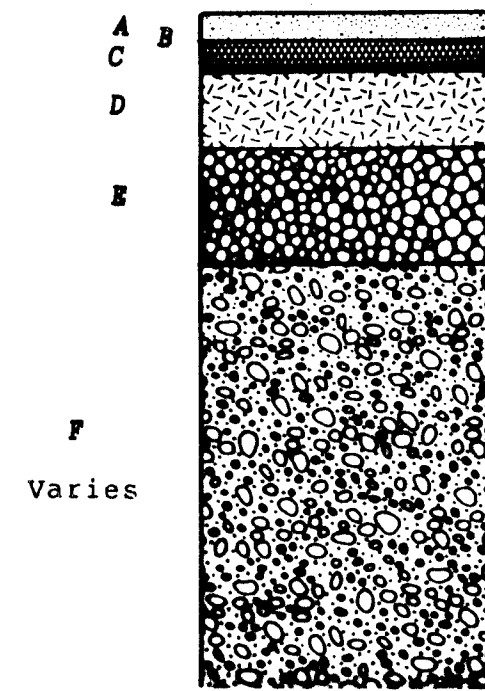
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	6	13	8	4	2	1	9	10	1	3	9	2		

Scale:
Horiz.: 1" = 20'
Vert.: 1" = 2'

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN	
CONTRACT NO.	DATE	BY	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE
See Sheets 4 Through 9 for Survey Bench Marks.											
MICRO-FILM INFORMATION											
RECORDED BY	NO.										
CITY OF ALBUQUERQUE Public Works Department Engineering Group											
TITLE: 4th Street Storm Drain Extension Intersection Details for Hazeldine Ave.											
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE						
DRC Chairman	R.W. Kane	11/6/90	Water	R.W. Kane	11-6-90						
Transportation	R.W. Kane	11/27/90	Waste Water	R.W. Kane	11-6-90						
Hydrology	R.W. Kane	11/7/90									
DRAWING NO.	3842.90	MAP NO.	K-14	SHEET	13	OF 15					

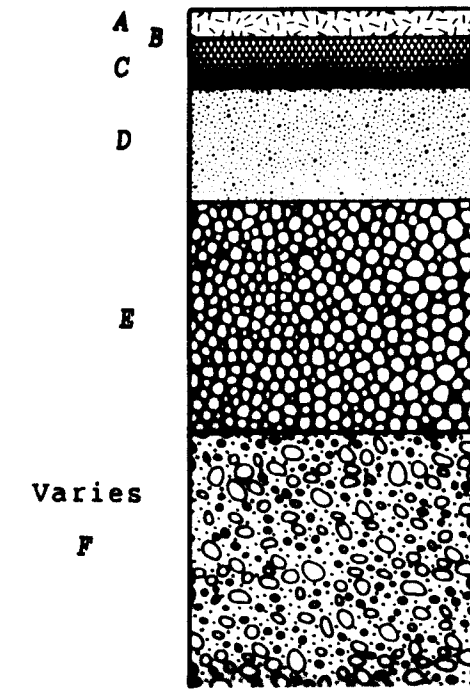
Paving Replacement Sections For Utility Pavement Cuts

Residential Streets



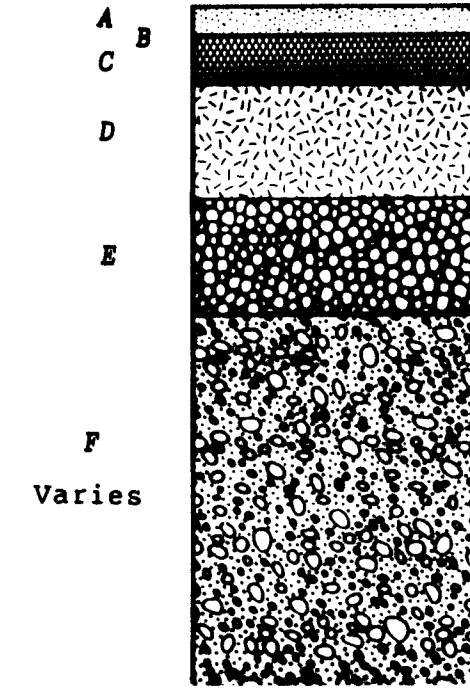
- A * 1 1/4" Asphalt Concrete Surface Course, 1500 lbs. Stability
- B Tack Coat, if required
- C * 2 1/4" Asphalt Concrete Base Course, 1500 lbs. Stability
- D 6" Subbase Material, 95% Compaction
- E 6" Subgrade Material, 95% Compaction
- F Subgrade Material, 90% Compaction

Arterial/Collector Streets



- A * 1 1/4" Asphalt Concrete Surface Course, 1800 lbs. Stability
- B Tack Coat, if required
- C * 2 1/4" Asphalt Concrete Base Course, 1800 lbs. Stability
- D 6" Cement-Treated Base
- E 12" Subbase Material, 95% Compaction
- F Subgrade Material, 95% Compaction

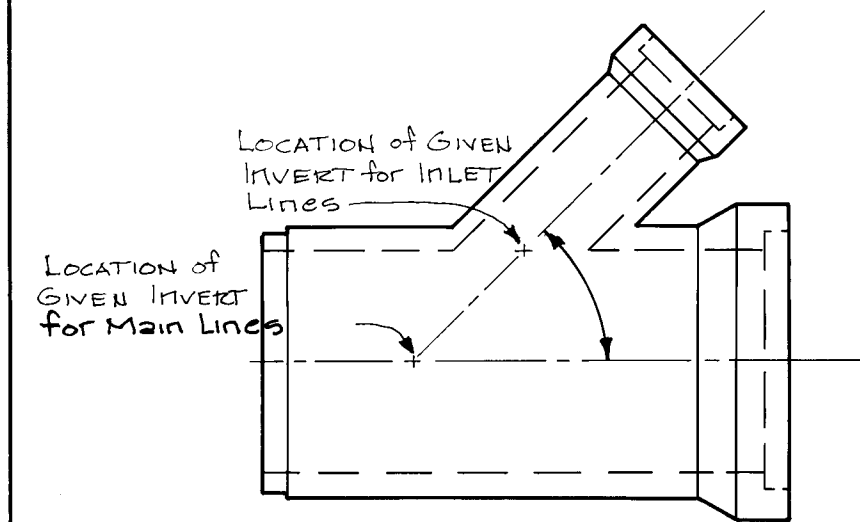
Residential Paving Section For Replacement of Pacific Avenue, between 3rd and 4th Streets.



- A 1 1/4" Asphalt Concrete Surface Course, 1500 lbs. Stability
- B Tack Coat, if required
- C 1 1/4" Asphalt Concrete Base Course, 1500 lbs. Stability
- D 4" Subbase Material, 95% Compaction
- E 6" Subgrade Material, 95% Compaction
- F Subgrade Material, 90% Compaction

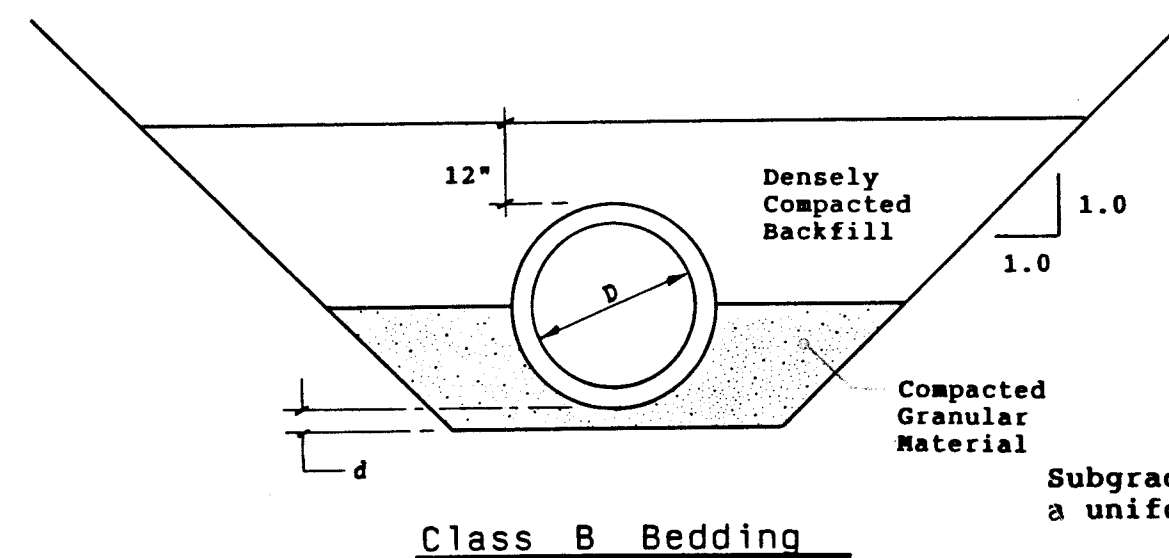
Prefabricated "Wyes" Shall Be Considered Incidental to Appropriate Bid Item for RCP.

Refer to Intersection Details, Sheets 10 through 13 of 15 for Specific Pipe Sizes, Invert Elevations, Line Slopes and Angle of Intersection.

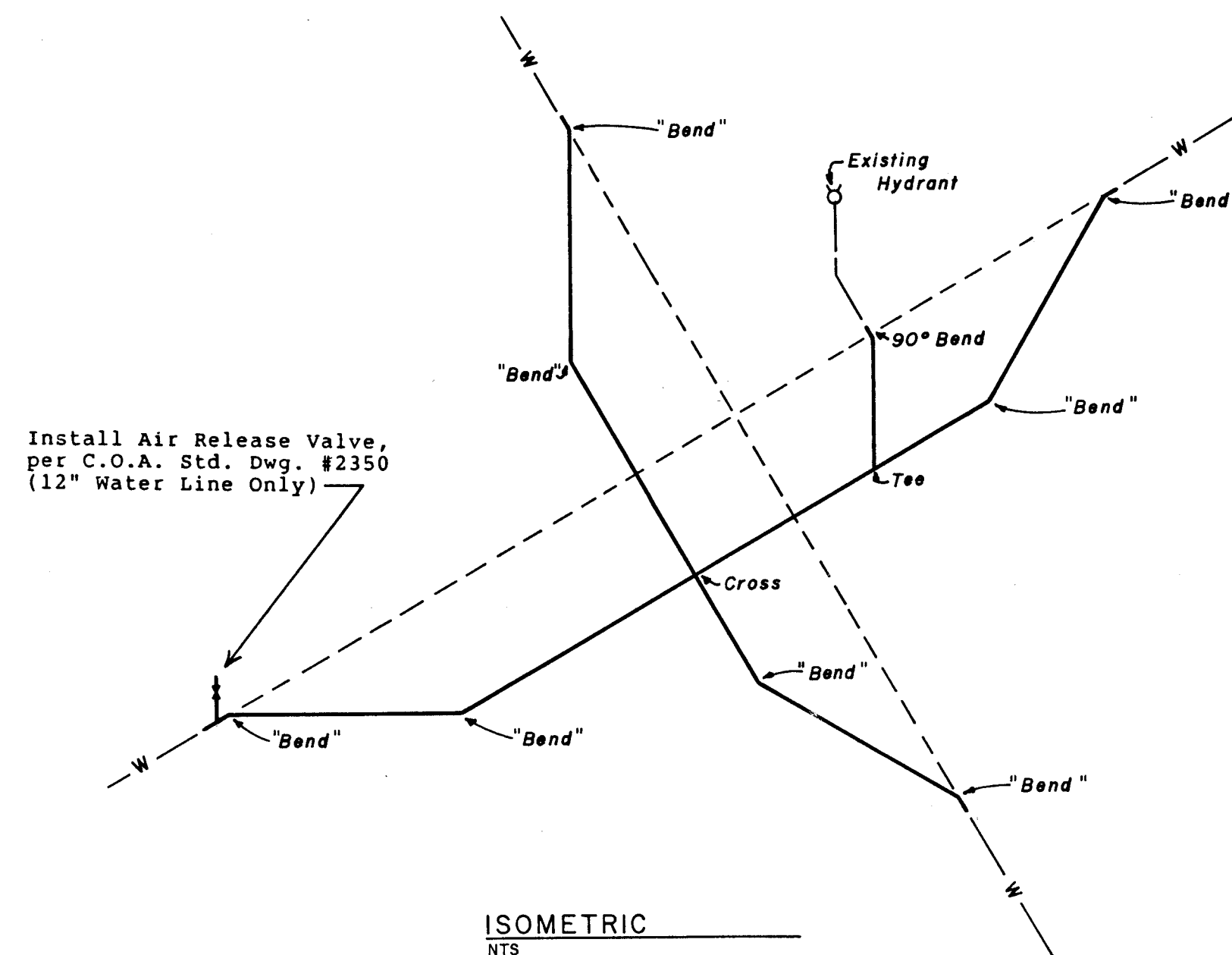
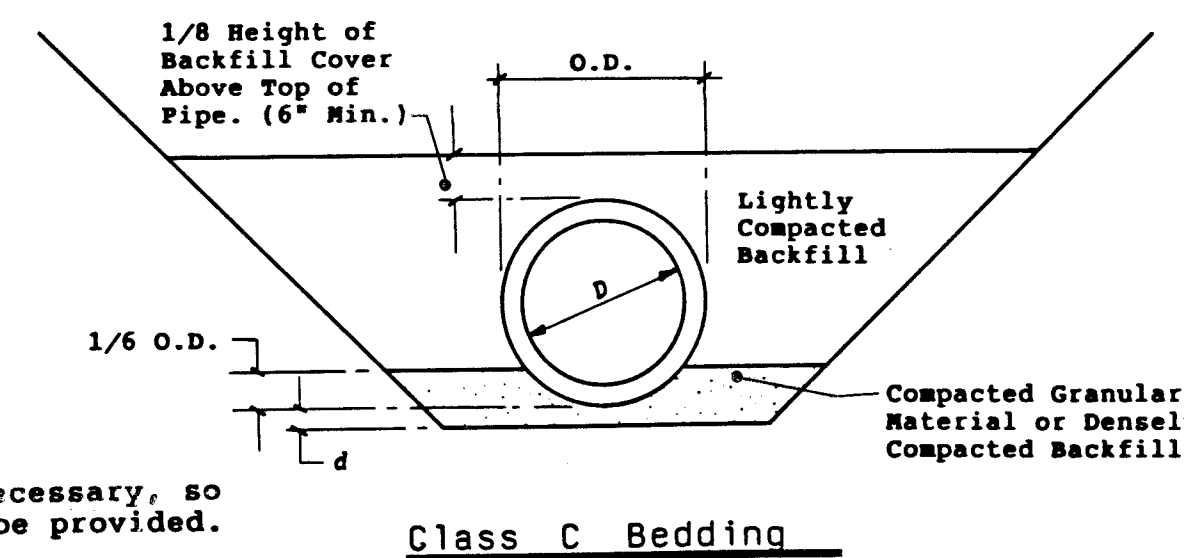


TYPICAL "WYE"
(To Be Pre-Fabricated)
NO SCALE

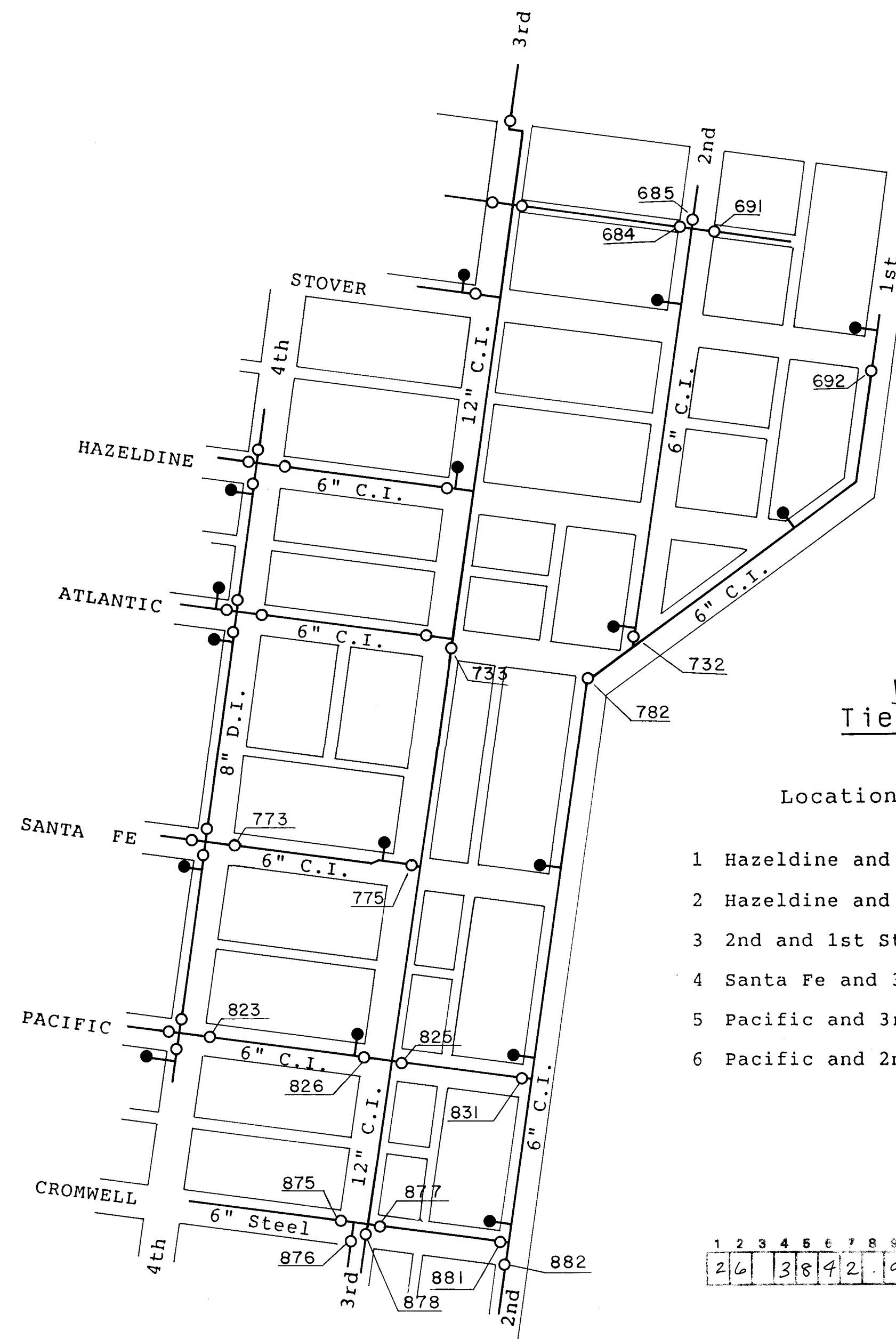
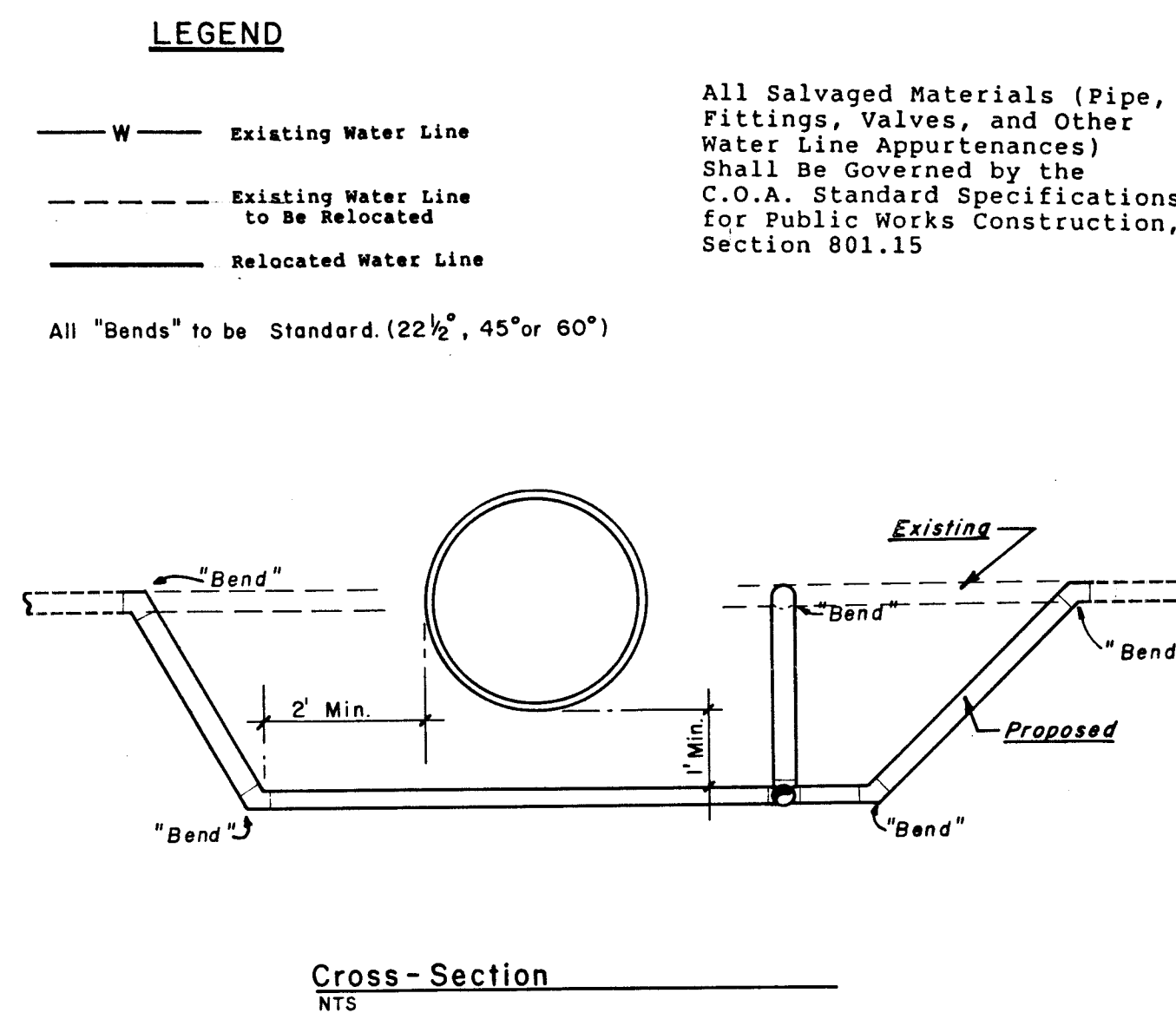
* Refer to C.O.A. Standard Drawing #2465 for additional notes.



D	d
27" and Smaller	3" 4"



TYPICAL WATER LINE RELOCATION DETAIL
NO SCALE



**Water Shut-Off Table
Tie-Ins to Existing System**

Locations	Valves to Shut-Off
1 Hazeldine and 2nd Street	685 684 691 732
2 Hazeldine and 1st Street	692 732 782
3 2nd and 1st Street	685 684 691 692 782
4 Santa Fe and 3rd Street	733 773 826 825 875 876 878 877
5 Pacific and 3rd Street	733 775 823 831 875 876 878 877
6 Pacific and 2nd Street	782 825 881 882

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	6	3	8	4	2	9	0	1	4	9	2			

WATER SHUT-OFF PLAN
NO SCALE

F.H.W.A. Region No.	NEW MEXICO	SHEET NO.	TOTAL SHEETS
6			

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE
INSPECTOR'S	DATE						
FIELD VERIFICATION BY	DATE						
COMPLETED BY	DATE						
RECORDED BY	DATE						

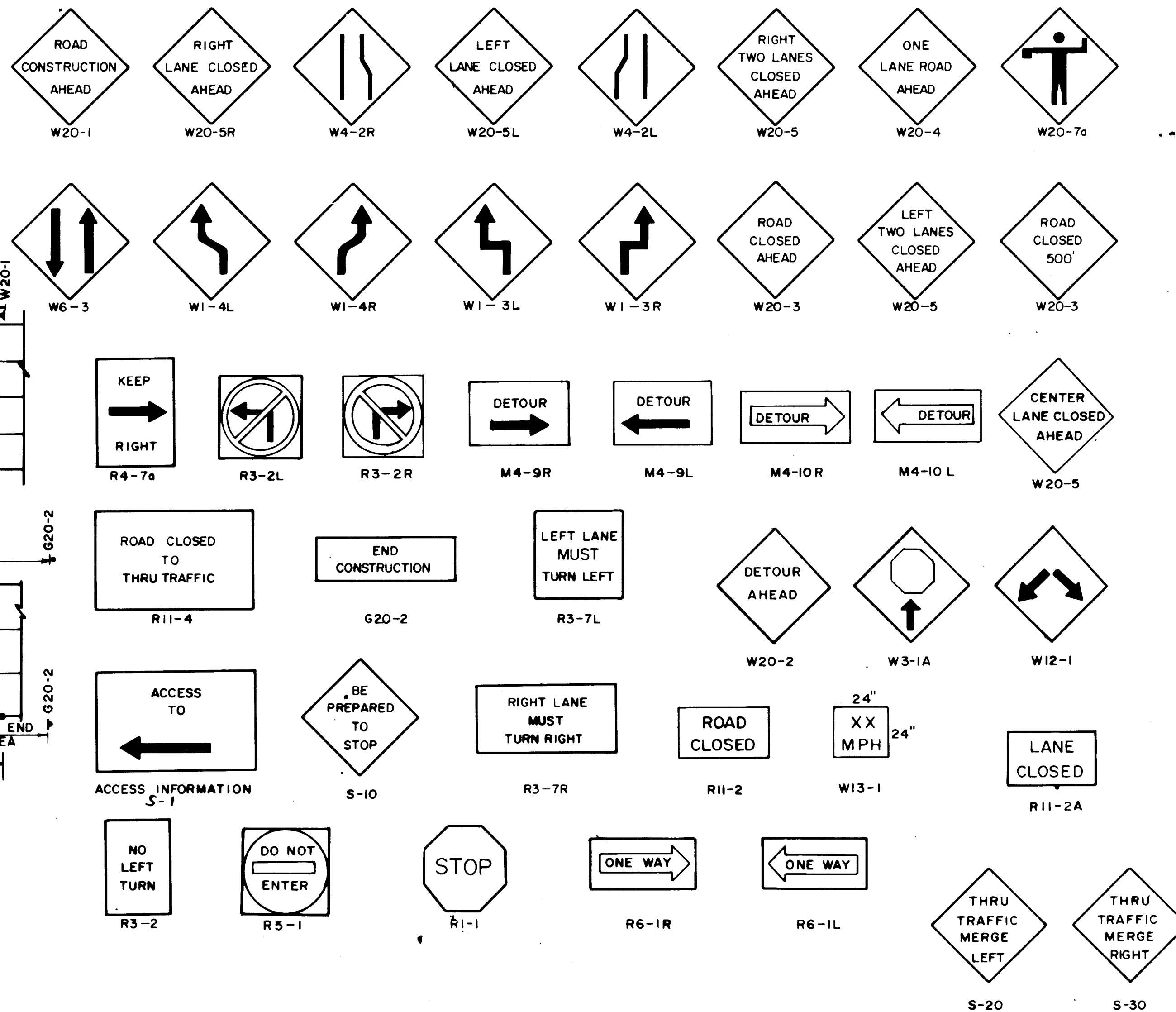
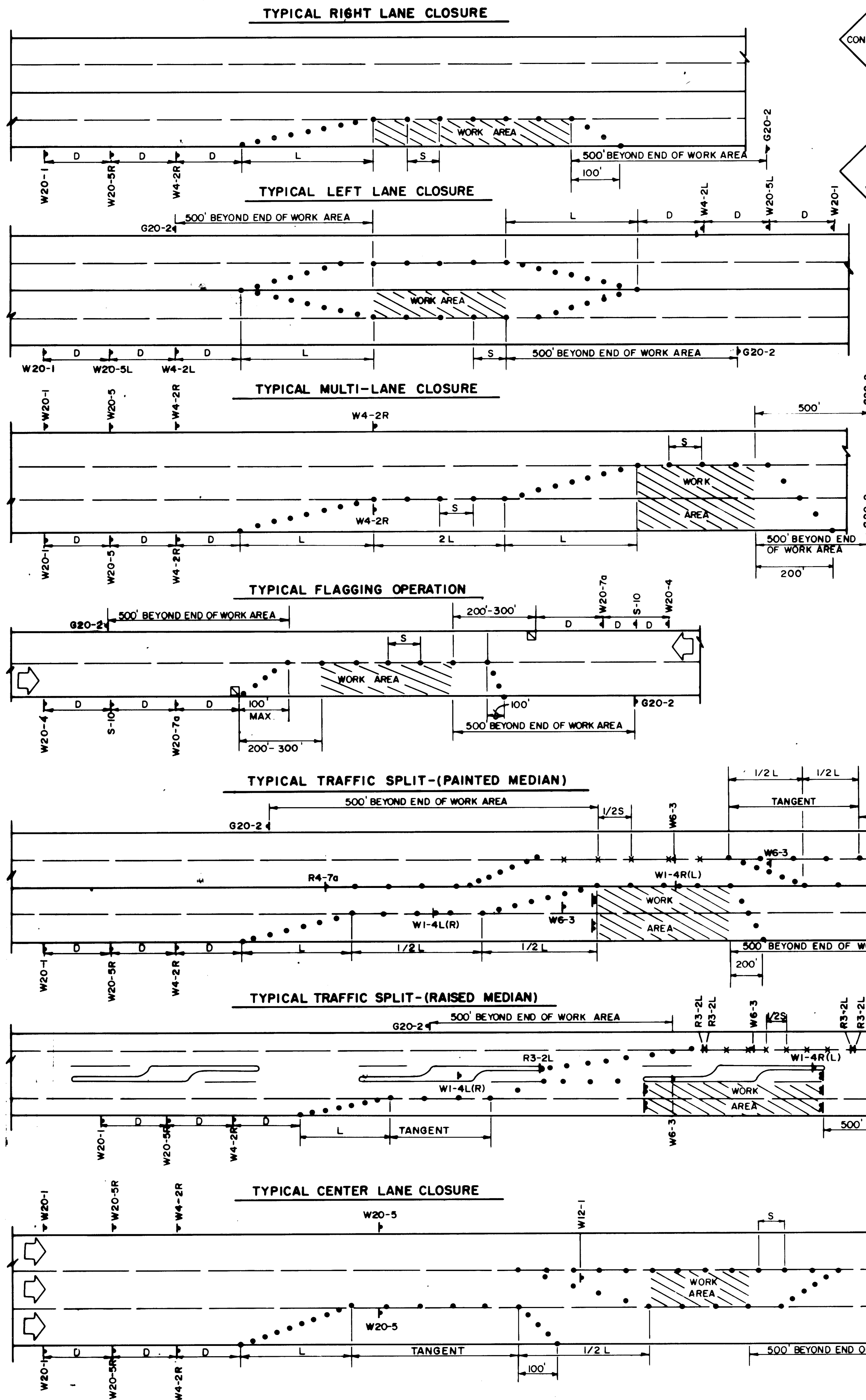
MICRO-FILM INFORMATION	
NO.	DATE

FIELD NOTES	
NO.	DATE

REVISIONS	
NO.	DATE

DESIGN	
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: 4th STREET STORM DRAIN EXTENSION DETAILS			
APPROVALS	ENGINEER	DATE	APPROVALS
DRC Chairman	R.W. Kane	11/6/90	Water
Transportation	P.D. Kane	11/6/90	Waste Water
Hydrology	P.D. Kane	11/6/90	
DRAWING NO.	3842.90	MAP NO.	K-14
SHEET	14	OF	15



TRAFFIC CONTROL NOTES

- CONTRACTOR SHALL ADHERE TO SECTION 19 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986.
- CONTRACTOR SHALL MAINTAIN ACCESS TO EACH FACILITY, BUSINESS, AND RESIDENCE AT ALL TIMES.
- CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA, PER REQUEST OF THE TRAFFIC ENGINEER. EACH ACCESS SIGN SHALL HAVE WHITE 5-INCH LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO BID AND NOT PART OF THE CONTRACT.
- CONTRACTOR SHALL REMOVE AND REPLACE ALL EXISTING PAVEMENT STRIPING THAT WOULD CONFLICT WITH EXISTING TRAFFIC PATTERNS. CONTRACTOR WILL BE RESPONSIBLE FOR TEMPORARY STRIPING.
- CONTRACTOR MUST NOTIFY THE CONSTRUCTION COORDINATION OFFICE AT 768-2551, FOR MEDIA NOTIFICATION.
- PRIOR TO OCCUPYING THE ROADWAY, CONTRACTOR SHALL NOTIFY WITHIN 4 HOURS: POLICE, FIRE DEPARTMENT, AND AMBULANCES.
- THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATOR A DIMENSIONED DETAILED TRAFFIC CONTROL PLAN FOR EACH PHASE OF WORK.
- CONTRACTOR SHALL ENSURE THAT ALL TRAFFIC CONTROL DEVICES ARE PROPERLY MAINTAINED, AND SET ACCORDING TO THE TRAFFIC CONTROL PLAN. CONTRACTOR SHALL ENSURE THAT BARRICADE CONTRACTOR INSPECTS SITE TWICE DAILY AND ONCE DURING THE HOURS OF DARKNESS.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND ALL WORK AREAS THROUGHOUT THE PERIOD OF CONSTRUCTION. ALL SUCH CHANNELIZATION SHALL BE ARRANGED TO PREVENT PEDESTRIANS FROM HAVING TO ENTER THE ROADWAY IN ORDER TO PASS AROUND THE WORK AREA.
- ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH MUTCD (LATEST EDITION).
- THE CONTRACTOR MAY SUBMIT FOR WRITTEN APPROVAL TO THE CONSTRUCTION COORDINATOR PHASING PLANS AND INDIVIDUAL TRAFFIC CONTROL PLANS.
- PHASING OF STORM DRAINAGE INSTALLATION SHALL NOT HAVE MORE THAN 600 FEET OF UNPAVED ROADWAY AT ANY TIME THROUGHOUT THE PROJECT.
- THE TRENCHING, PIPE LAYING AND BACKFILL WORK AREA SHALL NOT EXCEED 150 FEET.
- EXCAVATIONS SHALL BE BACKFILLED WITHIN REASON NIGHTLY.
- COMPLETE STREET CLOSURES WILL BE KEPT TO 150 FEET IN LENGTH IN ORDER TO FACILITATE ACCESS REQUIREMENTS.

LEGEND

- WORK AREA
- TRAFFIC SIGN & QUANTITY (See this sheet for designation)
- BARRICADE - TYPE I, TYPE II, OR BARREL
- BARRICADE - TYPE III
- VERTICAL PANEL
- WARNING SIGN
- DISTANCE BETWEEN SIGNS - 250' ± (AS FIELD CONDITIONS PERMIT)
- FLAGMAN POSITION
- SPACING BETWEEN BARRICADES - A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED OF THE STREET
- TAPER LENGTH - SEE CHART BELOW
- TANGENT LENGTH - IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET

NOTES

- ALL ADVANCE WARNING SIGNS ARE TO BE DOUBLE INDICATED WHENEVER MEDIANS ARE PRESENT.
- TRANSFORMATION FROM EXISTING SIGNALS TO SPAN WIRE IS TO OCCUR AT OFF PEAK HOURS.
- ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON AN ORANGE REFLECTORIZED BACKGROUND.
- ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF FORTY EIGHT (48) INCHES BY FORTY EIGHT (48) INCHES IN SIZE.

MINIMUM TAPER REQUIREMENTS

SPEED LIMIT (MPH)	TAPER LENGTH (FEET)			MAXIMUM DISTANCE BETWEEN DEVICES (FEET)	MINIMUM NUMBER OF DEVICES REQUIRED
	10' LANE	11' LANE	12' LANE		
25	105	115	125	25	6
30	150	165	180	30	7
35	205	225	245	35	8
40	270	295	320	40	9
45	450	495	540	45	13
50	500	550	600	50	13
55	550	605	660	55	13

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
26	38	42	90	159	2									

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: 4th STREET STORM DRAIN EXTENSION
TYPICAL TRAFFIC CONTROL (REF MUTCD.)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	R. Kane	11/8/90			
Trans. Dev	R. Kane	11/8/90			
Utility Dev	R.W. Kane	11-6-90			

DRAWING NO.	3842.90	MAP NO.	K - 14	SHEET OF	15
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AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACT NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
WORK ORDER NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
ACCEPTANCE BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
REVISIONS	DATE	NO.	DATE	NO.	DATE	NO.	DATE
DESIGNED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
DRAWN BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
CHECKED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE