

CONSTRUCTION PLANS
FOR
RAY STREET DIP REPLACEMENT
ALBUQUERQUE, NEW MEXICO

INDEX

SHEET NUMBER	DESCRIPTION
1	COVER SHEET
2	ROADWAY PLAN AND PROFILE
3	DEMOLITION & UTILITY PLAN
4	STRUCTURE LOCATION PLAN
5	TRANSVERSE AND LONGITUDINAL SECTION
6	TYPICAL SECTIONS
7	PRECAST GIRDER DETAILS
8	MISCELLANEOUS DETAILS
9	MAINTENANCE ACCESS RAMP DETAILS
10	SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS
11	TYPICAL TRAFFIC CONTROL AND SIGNING EXAMPLES

- THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED
- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
 - ☒ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
 - ☒ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
 - ☒ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
 - ☒ IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
 - ☐ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
 - ☒ THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

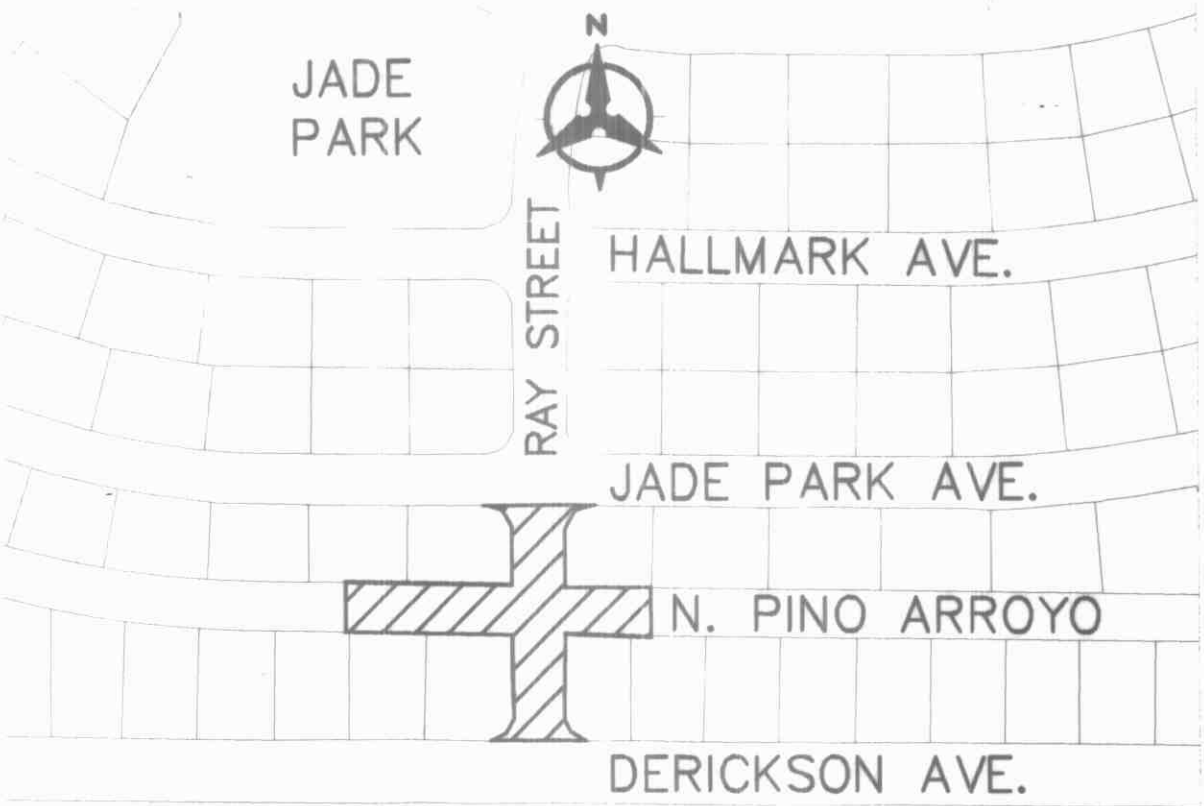
I, James A. Pung of the City of Albuquerque, A Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction.

[Signature]
JAMES A. PUNG
REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
13117

APPROVAL OF RECORD DRAWINGS
CHIEF CONSTRUCTION ENGINEER
[Signature]
DATE: 5/16/02

RECORD DRAWING
DATE: 1-28-03

Bohannon & Huston
County One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS



VICINITY_MAP
ZONE_MAP_NO._D-18

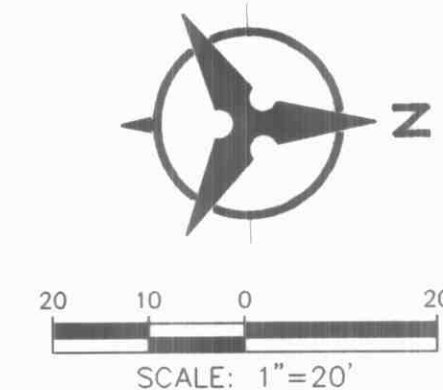
NOTICE TO CONTRACTORS

- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY.
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #6.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULED. TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION COORDINATION ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- ALL WORK EFFECTING ARTERIAL ROADWAYS REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO THE SAME LOCATION AS WAS EXISTING, OR AS INDICATED BY THIS PLAN SET.
- CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND HEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL RECORD DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- CONTRACTOR SHALL COORDINATE WITH THE CITY OF ALBUQUERQUE WATER SYSTEMS DIVISION (857-8200) FIVE (5) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING PUBLIC WATER OR SEWER UTILITIES. EXISTING VALVES TO BE OPERATED BY CITY PERSONNEL ONLY. CONTRACTOR SHALL CONTACT THE WATER SYSTEMS DIVISION THREE (3) WORKING DAYS PRIOR TO NEEDING VALVES TURNED ON OR OFF.
- CONSTRUCTION STAKING BY CONTRACTOR.

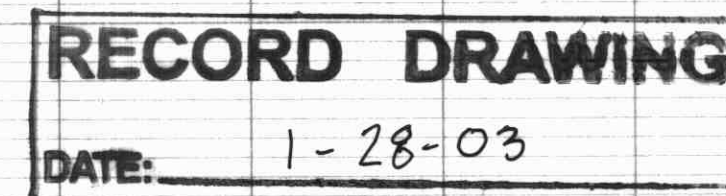
CONSTRUCTION NOTES:

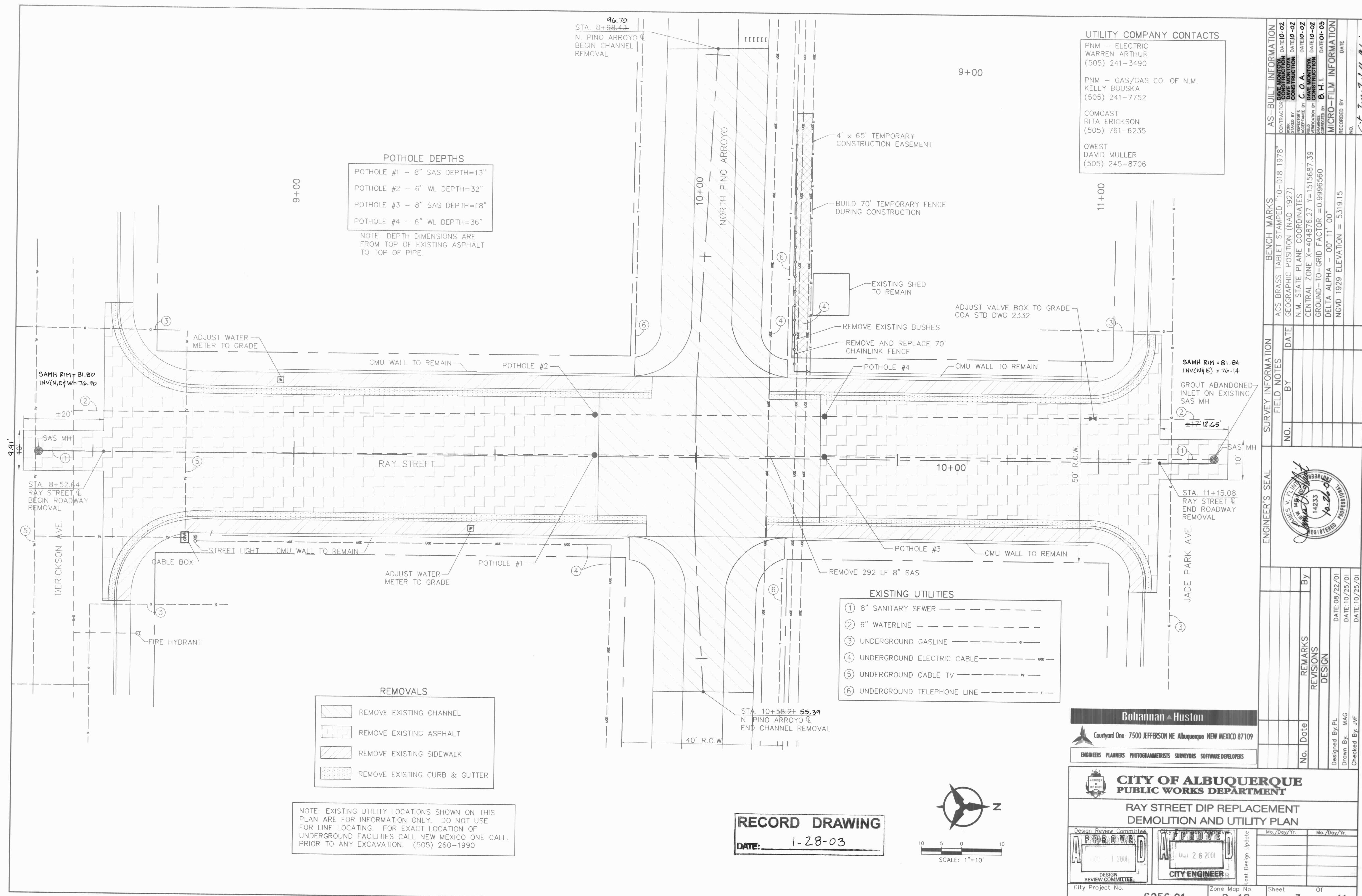
- THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS.
- PRIOR TO CONSTRUCTION SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR CONSTRUCTION OBSERVER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
- DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE CONSTRUCTION OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERE TO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.
- CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY COSTS INCURRED FOR REPAIRS SHALL BE THE COST OF THE CONTRACTOR.
- OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
- THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E. BARRICADING, SURFACE DISTURBANCE)
- THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE AT HIS EXPENSE ANY AND ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
- ALL PERMANENT PAVEMENT MARKING AND TRAFFIC SIGNING SHALL BE FURNISHED BY THE CONTRACTOR PER PLAN.
- THE CONTRACTOR SHALL FOLLOW THE CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN PROVIDED HEREIN. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON ADJACENT TO EXISTING STREETS.
- ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.
- ALL SAWCUT PAVEMENT SHALL HAVE A UNIFORM EDGE AND BE SPRAYED WITH TACK.
- WHEN ABUTTING NEW CURB AND GUTTER TO EXISTING PAVEMENT, A 1' WIDE SECTION OF EXISTING PAVEMENT ADJACENT TO THE CURB AND GUTTER SHALL BE SAWCUT, REMOVED, AND REPLACED AS PER THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, CURB & GUTTER, DRIVE PADS, WHEELCHAIR RAMPS, AND SIDEWALK DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS AND SHALL REPAIR OR REPLACE PER COA STANDARDS, AT HIS OWN EXPENSE.

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS	ENGINEER	DATE	*****		
		DRC Chairman	<i>[Signature]</i>	11-01-02	APPROVED FOR CONSTRUCTION <i>[Signature]</i> 11/1/02 City Engineer Date		
		Transportation	<i>[Signature]</i>	10-31-01			
		Water/Wastewater	<i>[Signature]</i>	10-29-01			
		Hydrology	<i>[Signature]</i>	10-29-01			
		Parks	<i>[Signature]</i>	10-29-01			
City Project No.		Const. Coordinator	<i>[Signature]</i>	10-29-01			
6256.91					Sheet	Of	11



Design Review Committee APPROVED JUN 1 2001 DESIGN REVIEW COMMITTEE		City Engineer Approval APPROVED JUN 26 2001 CITY ENGINEER		Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 6256.91		Zone Map No. D-18			Sheet 2	Of 11





UTILITY COMPANY CONTACTS

PNM - ELECTRIC
WARREN ARTHUR
(505) 241-3490

PNM - GAS/GAS CO. OF N.M.
KELLY BOUSKA
(505) 241-7752

COMCAST
RITA ERICKSON
(505) 761-6235

QWEST
DAVID MULLER
(505) 245-8706

POTHOLE DEPTHS

POTHOLE #1 - 8" SAS DEPTH=13"
POTHOLE #2 - 6" WL DEPTH=32"
POTHOLE #3 - 8" SAS DEPTH=18"
POTHOLE #4 - 6" WL DEPTH=36"

NOTE: DEPTH DIMENSIONS ARE FROM TOP OF EXISTING ASPHALT TO TOP OF PIPE.

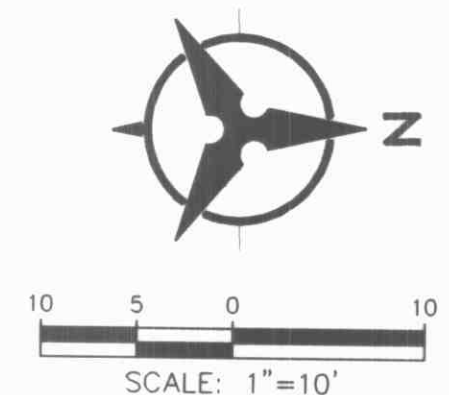
- EXISTING UTILITIES**
- ① 8" SANITARY SEWER
 - ② 6" WATERLINE
 - ③ UNDERGROUND GASLINE
 - ④ UNDERGROUND ELECTRIC CABLE
 - ⑤ UNDERGROUND CABLE TV
 - ⑥ UNDERGROUND TELEPHONE LINE

- REMOVALS**
- REMOVE EXISTING CHANNEL
 - REMOVE EXISTING ASPHALT
 - REMOVE EXISTING SIDEWALK
 - REMOVE EXISTING CURB & GUTTER

NOTE: EXISTING UTILITY LOCATIONS SHOWN ON THIS PLAN ARE FOR INFORMATION ONLY. DO NOT USE FOR LINE LOCATING. FOR EXACT LOCATION OF UNDERGROUND FACILITIES CALL NEW MEXICO ONE CALL. PRIOR TO ANY EXCAVATION. (505) 260-1990

RECORD DRAWING

DATE: 1-28-03



Bohannon & Huston

Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

RAY STREET DIP REPLACEMENT
DEMOLITION AND UTILITY PLAN

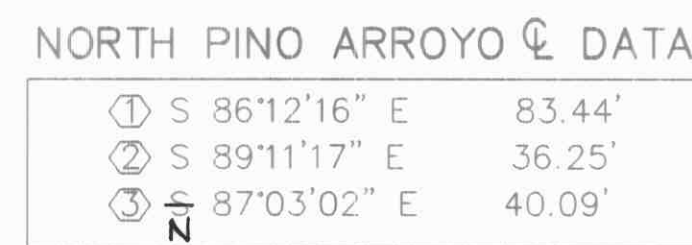
Design Review Committee	City Engineer	Mo./Day/Yr.	Mo./Day/Yr.

City Project No. 6256.91 Zone Map No. D-18 Sheet 3 Of 11

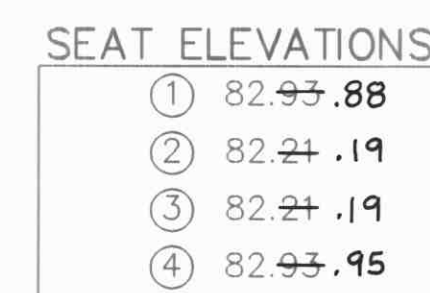
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CONTRACTOR	DATE	ACS BRASS TABLET STAMPED	10-D18 1978"	FIELD NOTES	DATE	NO.	BY
DAVE MONTANA	DATE 10-02	GEOGRAPHIC POSITION (NAD 1927)					
INSPECTOR	DATE 10-02	N.M. STATE PLANE COORDINATES					
ACCEPTANCE BY	DATE 10-02	CENTRAL ZONE X=404876.27 Y=1515687.39					
REVISIONS	DATE 10-02	GROUND-TO-GRID FACTOR =0.9996560					
REVISIONS	DATE 10-02	DELTA ALPHA = 00° 11' 00"					
MICRO-FILM INFORMATION		NGVD 1929 ELEVATION = 5319.15					
		RECORDED BY					
		NO.					

City Engineer's Seal:

Designed By: PL DATE: 08/22/01
Drawn By: MAG DATE: 10/25/01
Checked By: JVF DATE: 10/25/01



SCALE: 1" = 10'



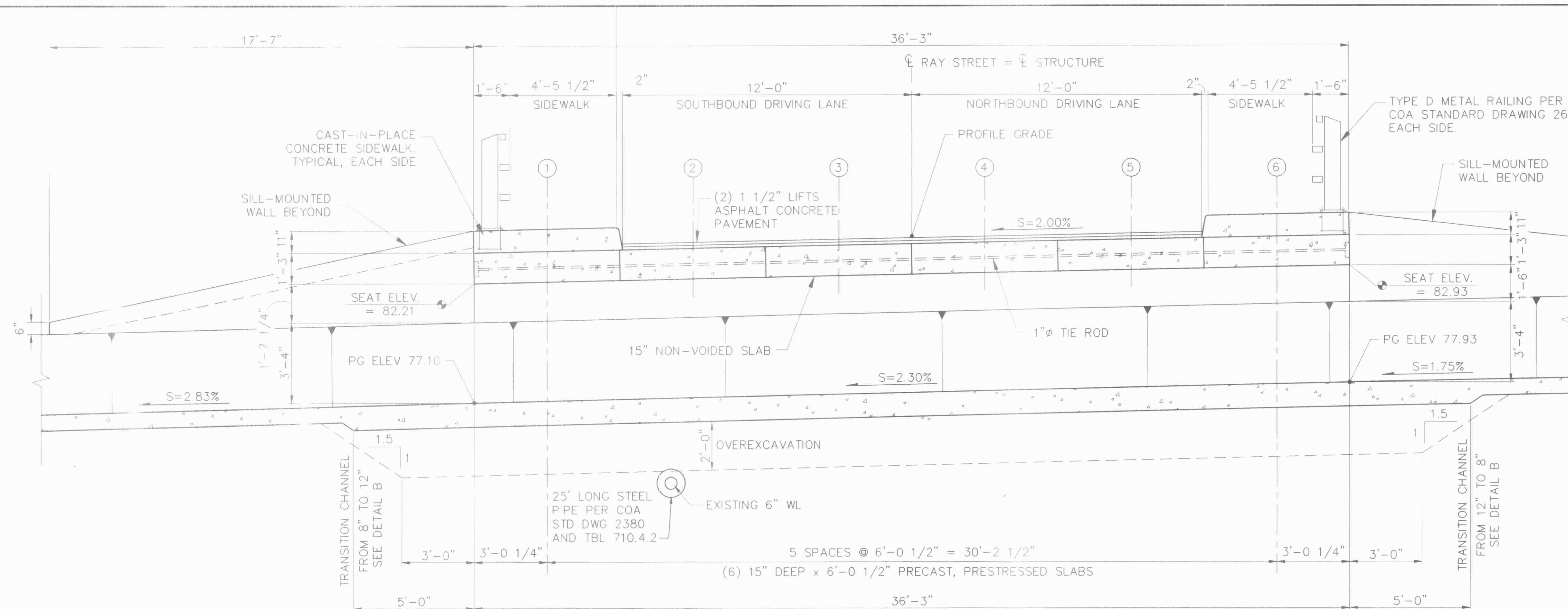
1. SUBGRADE DIRECTLY UNDER THE CROSSING STRUCTURE AND THREE FEET ON ALL SIDES SHALL BE EXCAVATED TWO FEET BELOW BOTTOM OF FOOTING, MOISTENED TO OPTIMUM MOISTURE, AND PLACED IN 8 INCH LOOSE LIFTS AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
2. BACKFILL BEHIND ABUTMENT WALLS SHALL BE PLACED IN 8" LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR DENSITY. A FIELD DENSITY TEST SHALL BE TAKEN ON ALTERNATE LIFTS TO INSURE PROPER COMPACTION. FILL SHALL BE PLACED AT EACH END OF BRIDGE SUCH THAT EACH LIFT IS LEVEL AND WITHIN ONE FOOT OF THE FILL ELEVATION AT THE OPPOSITE END OF THE BRIDGE. SEE DETAIL A, SHEET 5, FOR ADDITIONAL REQUIREMENTS.
3. BACKFILL BEHIND SILL MOUNTED RETAINING WALLS SHALL BE PLACED AT 90% MODIFIED PROCTOR DENSITY.

	STATION	NORTHING	EASTING
B.O.P. RAY ST.	8+52.64	1515220.242	403724.605
E.O.P. RAY ST.	11+15.08	1515668.831	403720.018
B.O.P. NORTH PINO ARROYO	8+98.43	1515820.703	403621.605
E.O.P. NORTH PINO ARROYO	10+58.21	1515816.728	403781.146

Design Review Committee APPROVE NOV 16 2001 DESIGN REVIEW COMMITTEE		City Engineer's Signature APPROVE OCT 26 2001 CITY ENGINEER		Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 6256.91		Zone Map No. D-18			Sheet 4	Of 11

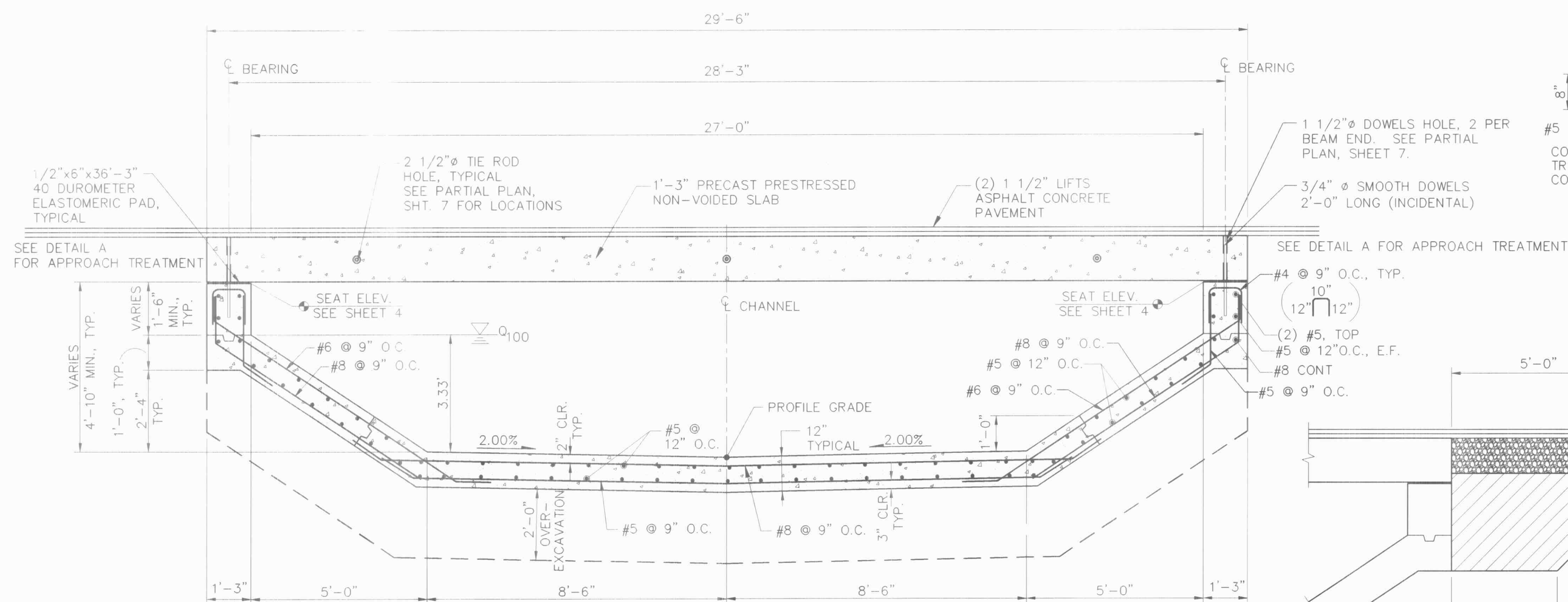
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FIELD NOTES						
NO.	BY	DATE				
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			N.M. STATE PLANE COORDINATES	INSPECTOR'S ACCEPTANCE BY	DATE CONSTRUCTION	DATE 10-02
			CENTRAL ZONE X=404876.27 Y=1515687.39	DATE VERIFICATION	DATE CONSTRUCTION	DATE 10-02
			GROUND-TO-GRID FACTOR = 0.9996560	BY B.H.I.	DATE CONSTRUCTION	DATE 01-03
			DELTA ALPHA = 00° 11' 00"	MICRO-FILM INFORMATION		
			NGVD 1929 ELEVATION = 5319.15	RECORDED BY	DATE	
				NO.		

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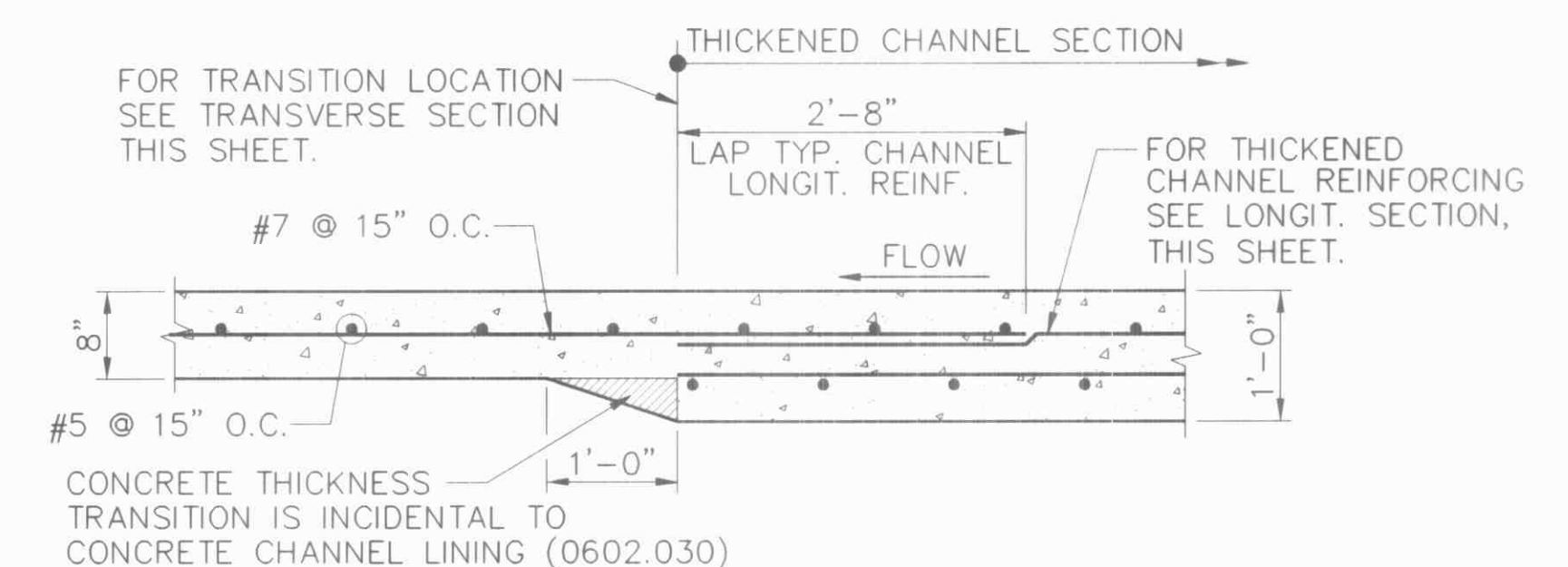
TRANSVERSE SECTION AT CHANNEL CENTERLINE
(LOOKING NORTH)

SCALE: 3/8" = 1'-0"



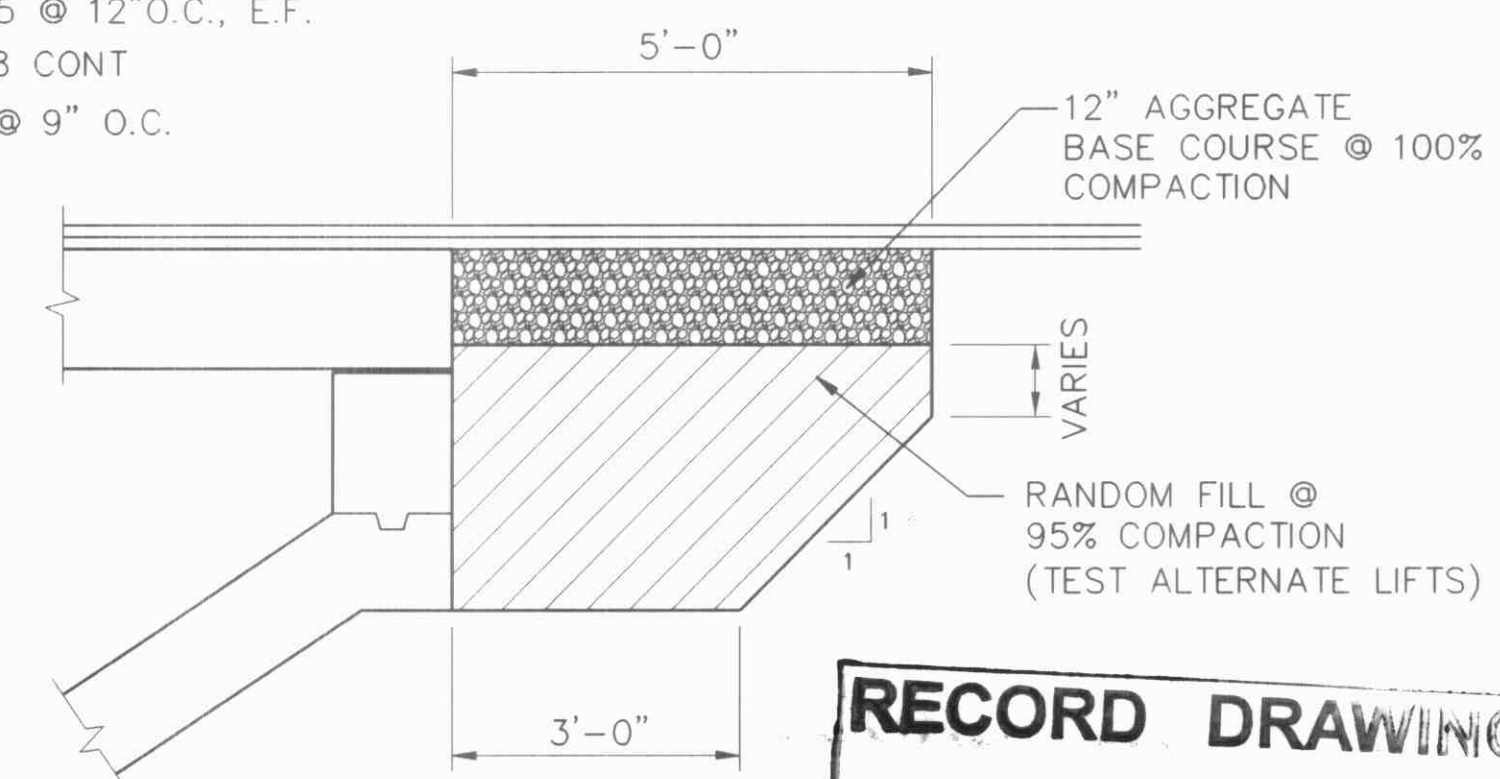
LONGITUDINAL SECTION

SCALE: 1/2" = 1'-0"



DETAIL B

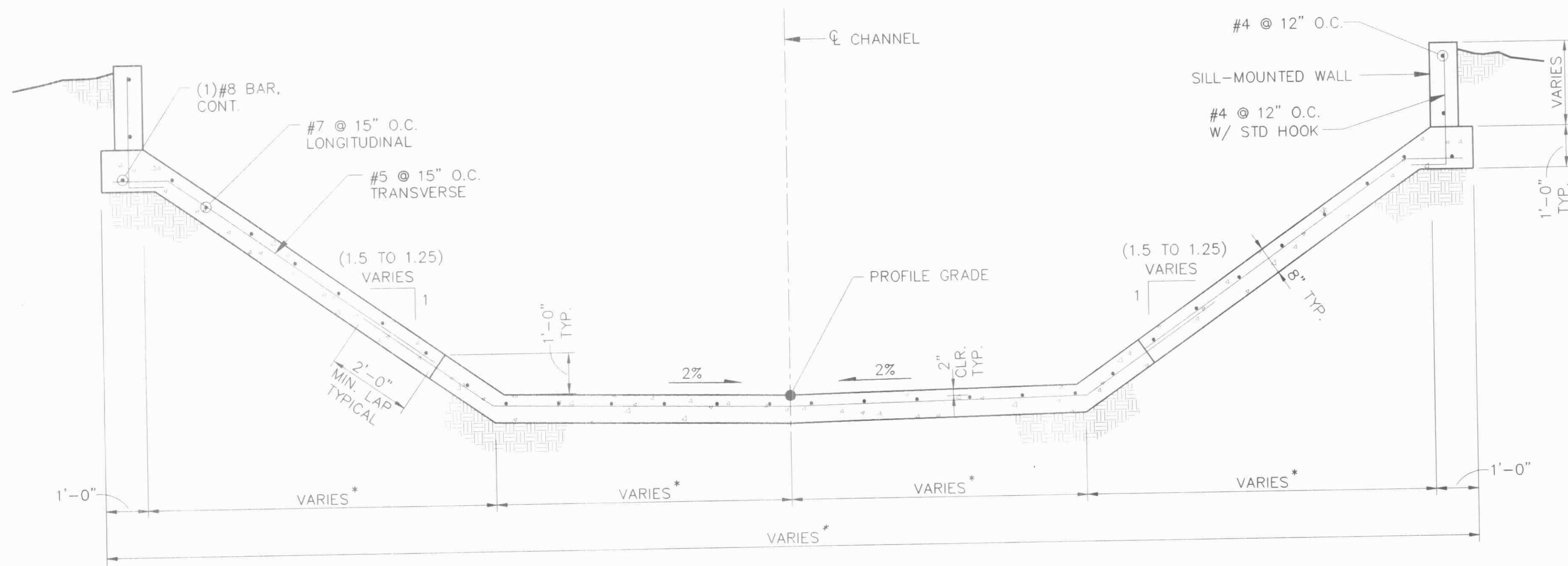
SCALE: 3/4" = 1'-0"



DETAIL A

SCALE: 1/2" = 1'-0"

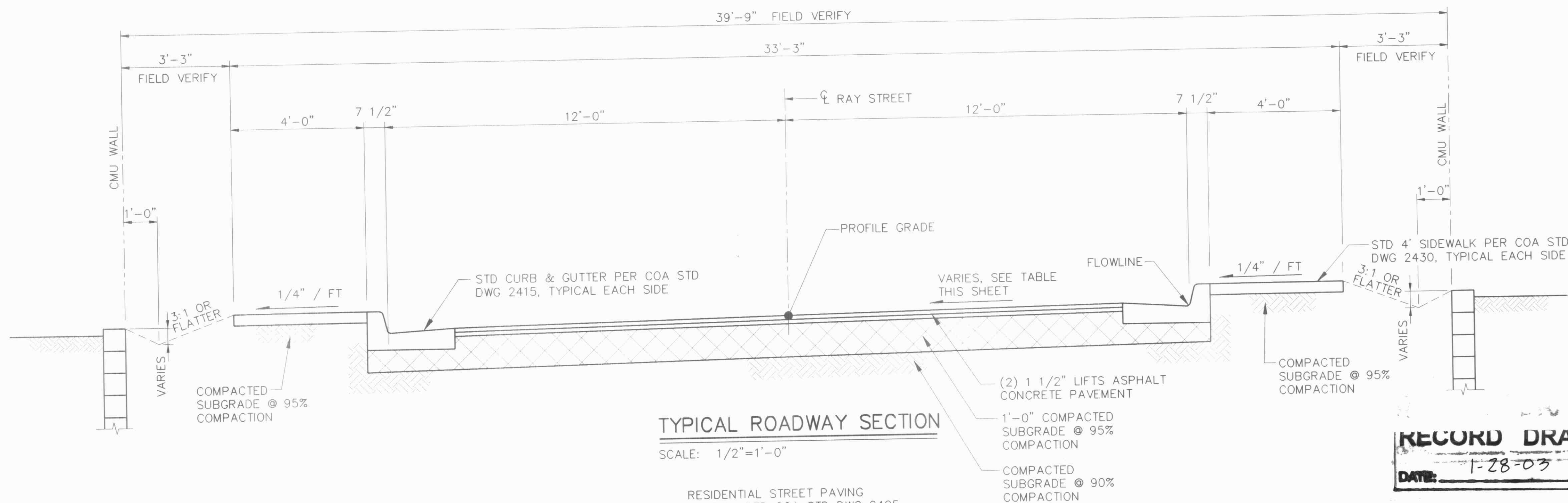
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						GEOGRAPHIC POSITION (NAD 1927)		INSPECTOR DAVE MONTYON DATE 10-02	
						N.M. STATE PLANE COORDINATES		ACCEPTANCE BY C. O. A. DATE 10-02	
						CENTRAL ZONE X=404876.27 Y=1515687.39		APPROVED BY B. H. I. DATE 10-03	
<div>Designed By: PL Drawn By: MAG Checked By: JVF</div>		NO.		DATE		GROUND-TO-GRID FACTOR = 0.9996560		MICRO-FILM INFORMATION	
						DELTA ALPHA - 00' 11" 00"		RECORDED BY	
						NGVD 1929 ELEVATION = 5319.15		NO.	
MENT		Mo./Day/Yr.		Mo./Day/Yr.		Sheet		Of	
NAL SECTION						5		11	



**TYPICAL UPSTREAM CHANNEL SECTION
(LOOKING UPSTREAM)**
SCALE: 1/2"=1'-0"

RAY STREET CROSS SLOPES

STATION	ROADWAY CROSS SLOPE
9+00.00	2.52% .24
9+40.00	2.28% 1.91
9+80.00	2.03% .10
9+85.00	2.00% 1.82
10+14.50	2.00% 1.87
10+40.00	2.16% 1.82
10+80.00	2.41% 1.91



TYPICAL ROADWAY SECTION
SCALE: 1/2"=1'-0"
RESIDENTIAL STREET PAVING
SECTION PER COA STD DWG 2405

RECORD DRAWING
DATE: 1-28-03

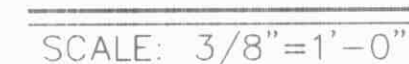
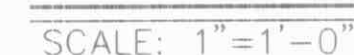
AS-BUILT INFORMATION CONTRACTOR: DAVE MONTVOA DATE: 10-02-02 WORK BY: DAVE MONTVOA DATE: 10-02-02 INSPECTOR: C. O. A. DATE: 10-02-02 VERIFICATION BY: C. O. A. DATE: 10-02-02 DRAWING BY: B. H. L. DATE: 01-09-03 MICRO-FILM INFORMATION RECORDED BY: [] NO. []		BENCH MARKS ACS BRASS: TABLE STAMPED "10-D18 1978" GEOGRAPHIC POSITION: (NAD 1927) N.M. STATE PLANE COORDINATES CENTRAL ZONE: X=404876.27 Y=1515687.39 GROUND-TO-GRID FACTOR: =0.9996560 DELTA ALPHA: = 00° 11' 00" NGVD 1929 ELEVATION: = 5319.15	
SURVEY INFORMATION FIELD NOTES NO. [] BY [] DATE []		ENGINEER'S SEAL 	
REVISIONS No. [] Date [] By [] DESIGN [] DATE: 08/22/01 DATE: 10/25/01 DATE: 10/25/01		REMARKS No. [] Date [] By []	

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 ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT**

**RAY STREET DIP REPLACEMENT
TYPICAL SECTIONS**

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVE 10-1-2001	APPROVE 10-2-2001		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
City Project No.	Zone Map No.	Sheet	Of
6256.91	D-18	6	11

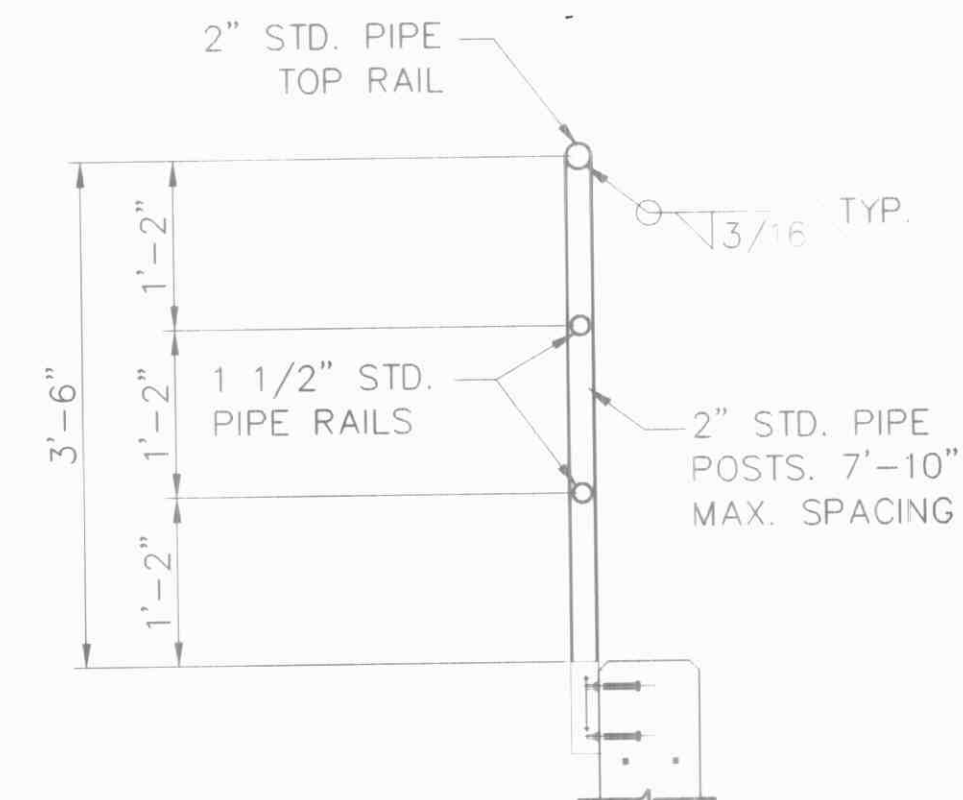


DATE: 1-28-03

BARS PROJECTING INTO SIDEWALK
GRADE 40 - FS = 20,000 P.S.I.
FY = 40,000 P.S.I.

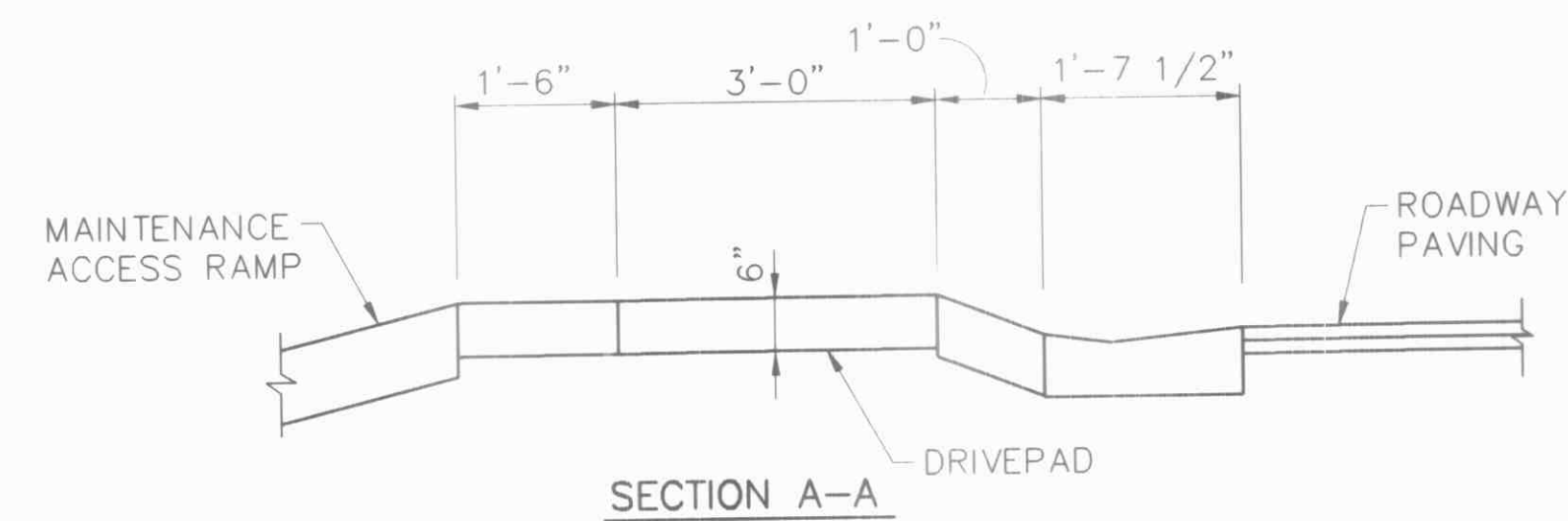
1. COST OF REINFORCING BARS AND STRUCTURAL STEEL EMBEDDED IN BRIDGE BEAMS IS TO BE INCLUDED IN THE UNIT PRICE BID FOR PRESTRESSED VOIDED SLAB, 15" X 72.5".
2. THE TOP SURFACE OF ALL BEAMS IS TO BE THOROUGHLY WIRE BRUSHED TO REMOVE LAITANCE.
3. BEAM CAMBER IS THE COMPUTED NET UPWARD DEFLECTION AT THE CENTER LINE OF BEAM DUE TO PRESTRESSING, WITH WEIGHT OF BEAM ACTING.
4. THE DESIGN SHOWN IS BASED ON THE USE OF $1/2"$ ϕ LOW-RELAXATION STRANDS MEETING THE REQUIREMENTS OF AASHTO M-203 (GRADE 270). IF THE CONTRACTOR CHOOSES TO USE STRANDS MEETING THE REQUIREMENTS OF AASHTO M-203, WITH PROPERTIES OTHER THAN THESE THEN THE REVISED DETAILS SHOWING NUMBER AND ARRANGEMENT OF ALTERNATE STRANDS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
5. TYPE III CEMENT MAY BE USED AT THE FABRICATOR'S OPTION.
6. REINFORCING BARS PROJECTING FROM THE TOP OF THE BEAM SHALL BE EPOXY COATED.
7. ALL BARS TO BE GRADE 60 REINFORCING, EXCEPT BARS PROJECTING ABOVE THE TOP OF THE BEAM WHICH SHALL BE GRADE 40.
8. DEAD LOAD DEFLECTION IS THE COMPUTED DEFLECTION DUE TO WEIGHT OF SLAB AND SUPERIMPOSED DEAD LOAD AT ERECTION.

City Project No.	6256.91	Zone Map No.	D-18	Sheet	7	Of	11
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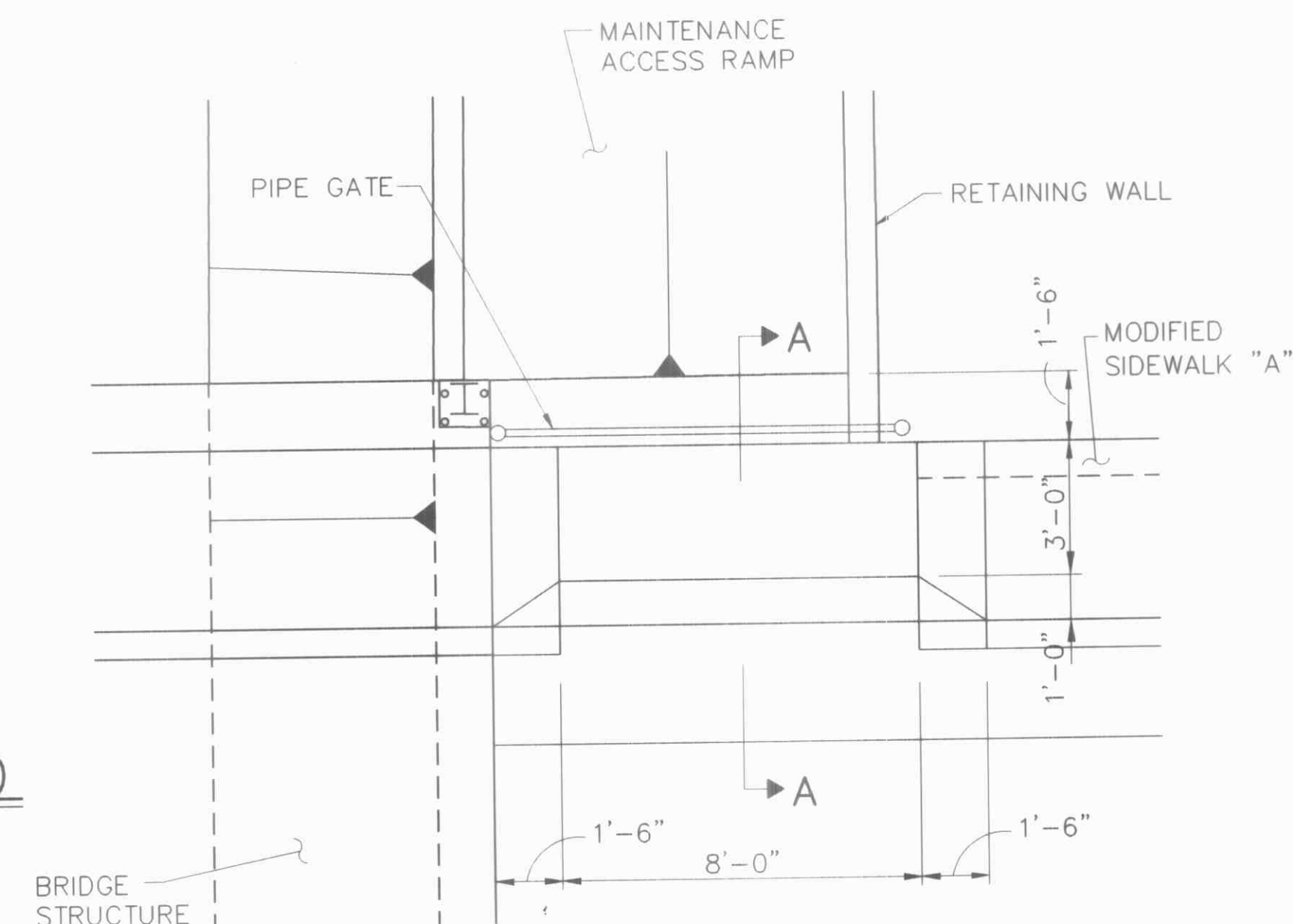


PEDESTRIAN PIPE RAILING
TYPICAL SECTION

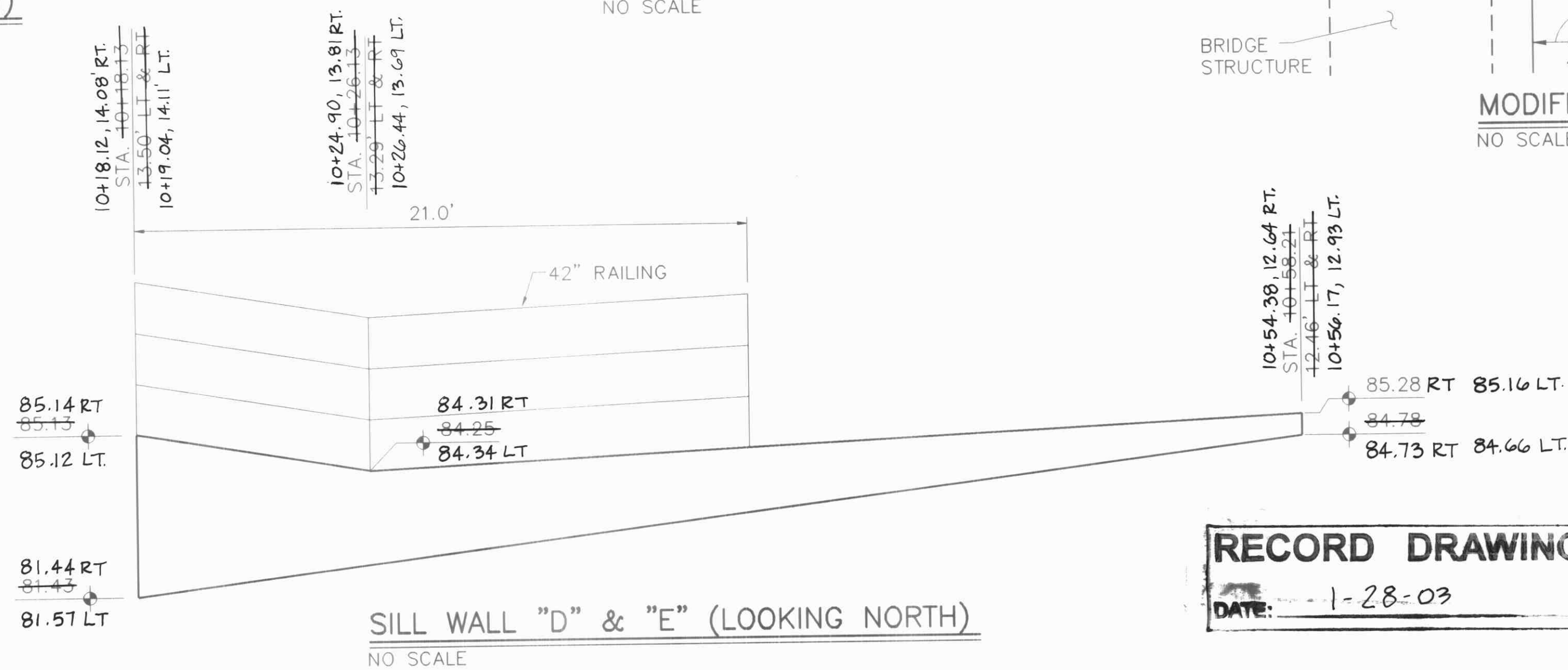
NO SCALE



SECTION A-A




RETAINING WALL "A" (LOOKING NORTH)
NO SCALE



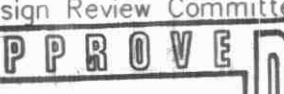
SILL WALL "D" & "E" (LOOKING NORTH)
NO SCALE

RECORD DRAWING
DATE: 1-28-03

Bohannon ▲ Huston

 Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
 ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS


CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

RAY STREET DIP REPLACEMENT MISCELLANEOUS DETAILS

Design Review Committee		City Engineer		Mo./Day/Yr.	
					
City Project No.		Zone Map No.		Sheet	
6256.91		D-18		8	

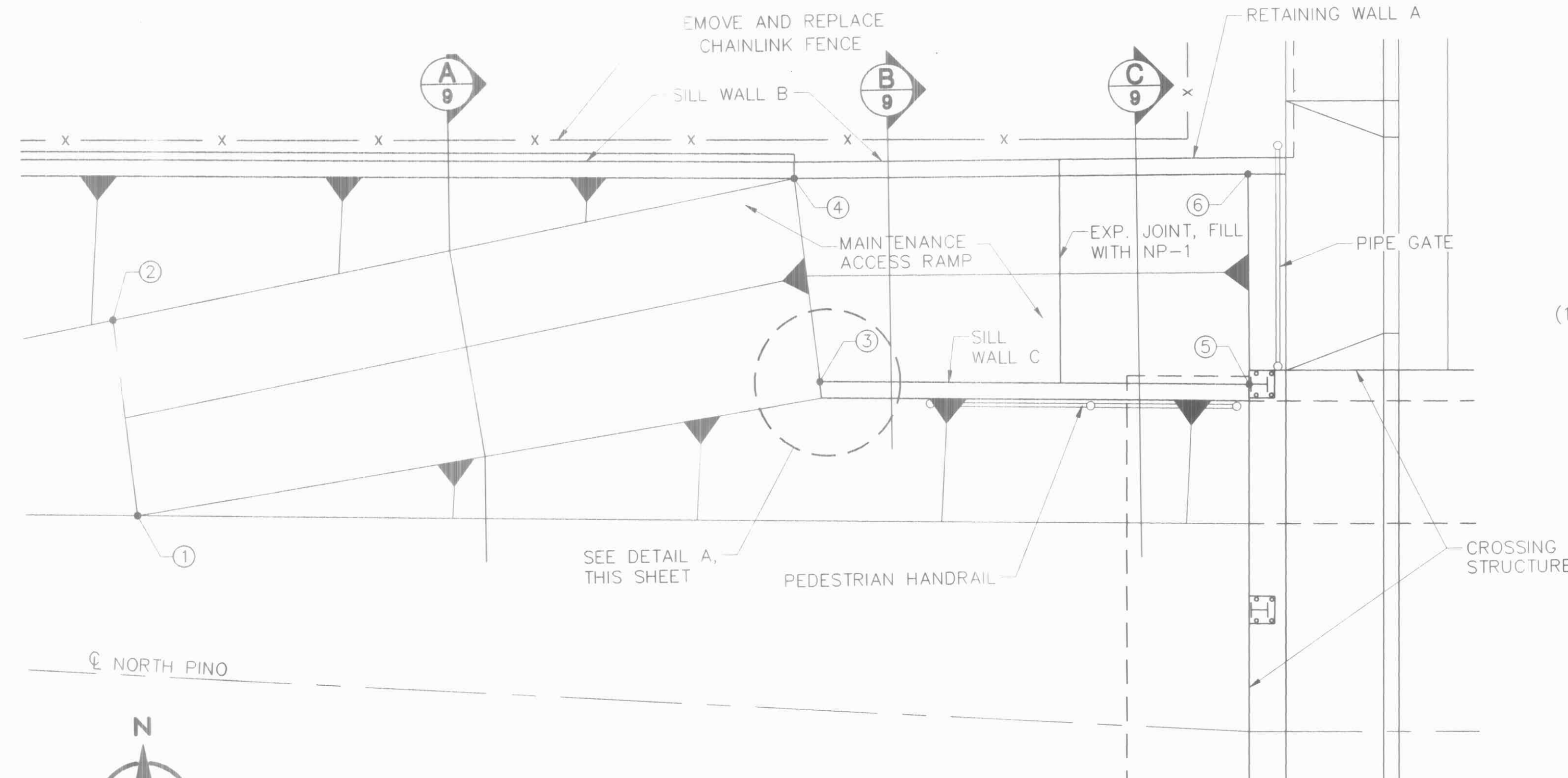
BENCH MARKS		AS-BUILT INFORMATION	
ACS BRASS TABLET STAMPED "10-D18 1978"		CONTRACTOR	DAVE MONTVOYA DATE 10-02
GEOGRAPHIC POSITION (NAD 1927)		STAGED BY	CONSTRUCTION INFORMATION
N.M. STATE PLANE COORDINATES		INSPECTOR'S FIELD STAGE BY	C. O. A. DATE 10-02
CENTRAL ZONE X=404876.27 Y=1515687.39		FIELD VERIFICATION BY	DAVE MONTVOYA DATE 10-02
GROUND-TO-GRID FACTOR = 0.9998560		RECORDED BY	B. H. I. DATE 01-03
DELTA ALPHA = 00° 11' 00"		MICRO-FILM INFORMATION	
NGVD 1929 ELEVATION = 5319.15		DATE	
		NO.	

[illegible]

ENGINEER'S SEAL

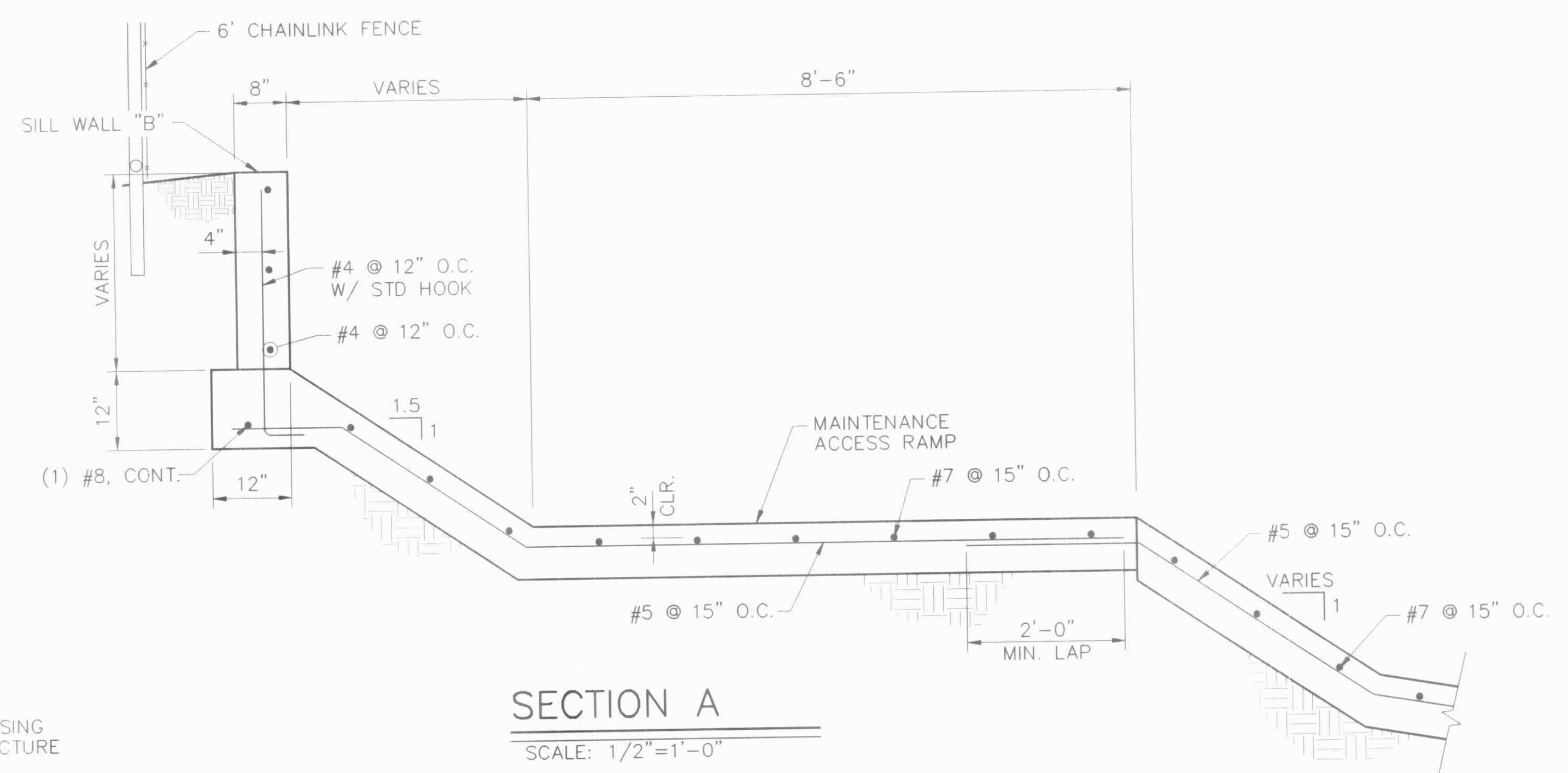
PAKES V. FLINT
NEW MEXICO
14233
REGISTERED PROFESSIONAL ENGINEER
10-22-01

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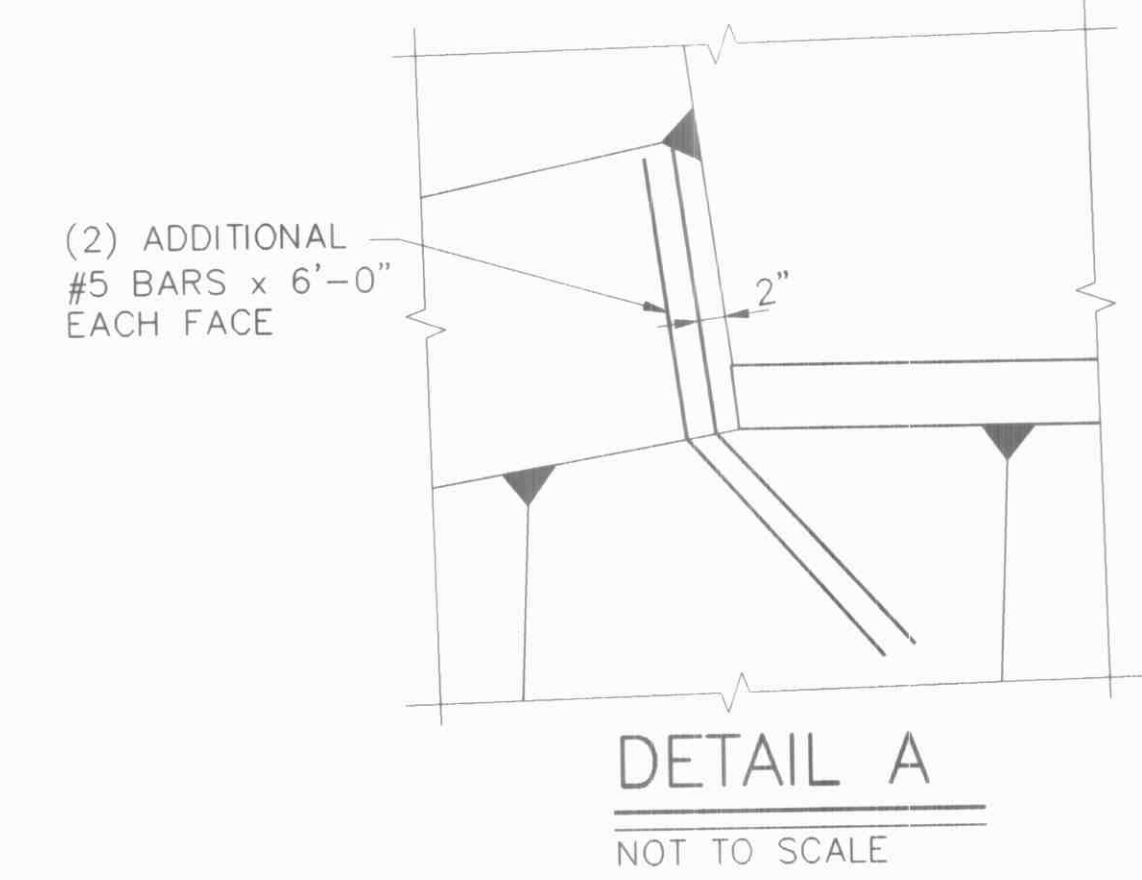


MAINTENANCE ACCESS RAMP PLAN
SCALE: 1/4"=1'-0"

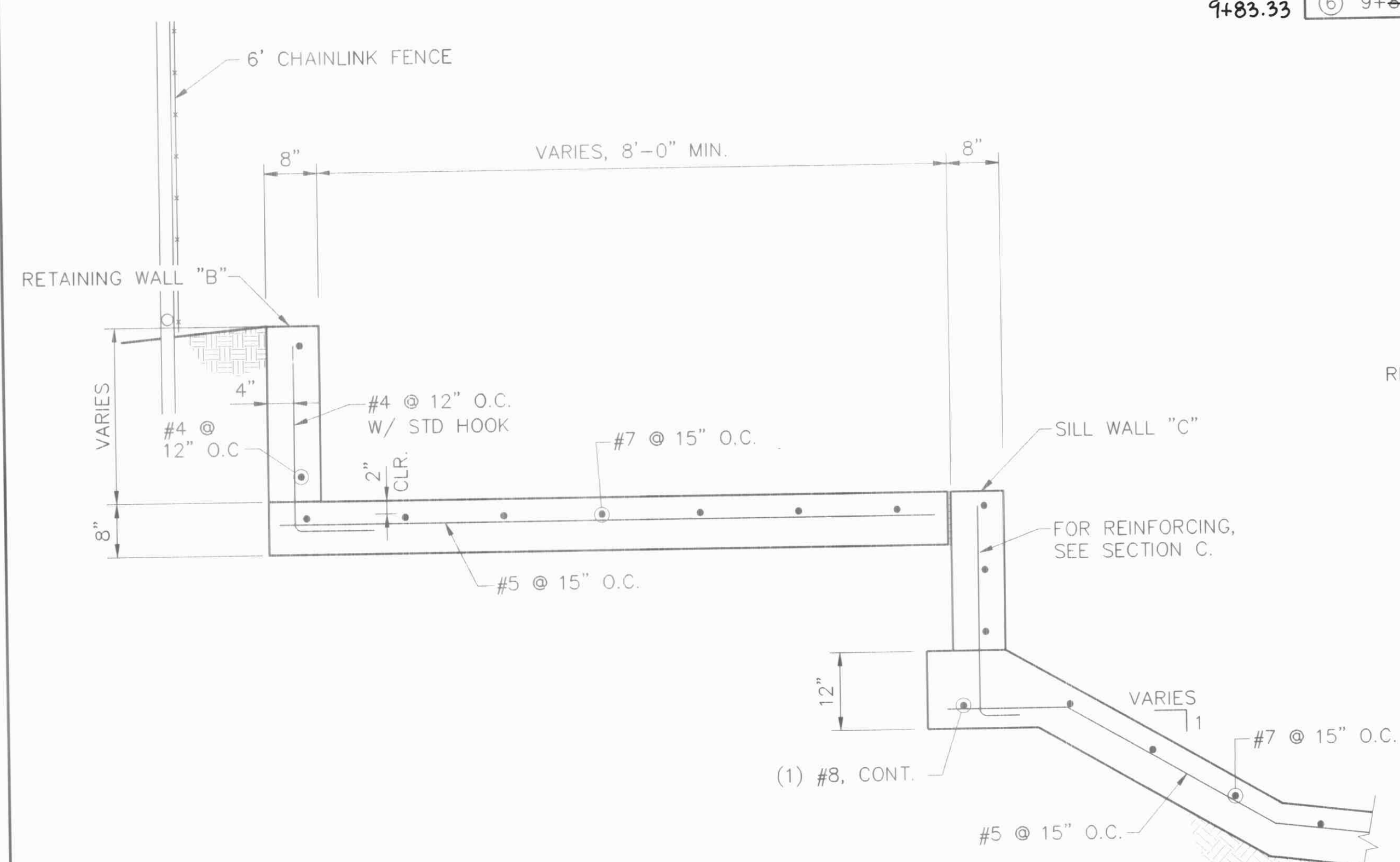
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9+35.69	① 9+36.01	6.55 LT. 53	75.93 .95
9+35.28	② 9+34.58	14.45 LT. 51	75.93 6.10
9+63.59	③ 9+63.55	13.73 LT. 24	79.81 .55
9+62.20	④ 9+62.42	21.63 LT. 98	79.81 .85
9+81.31	⑤ 9+81.13	14.48 LT. 92	84.43 .42
9+83.33	⑥ 9+80.64	22.72 LT. 74	84.43 .15



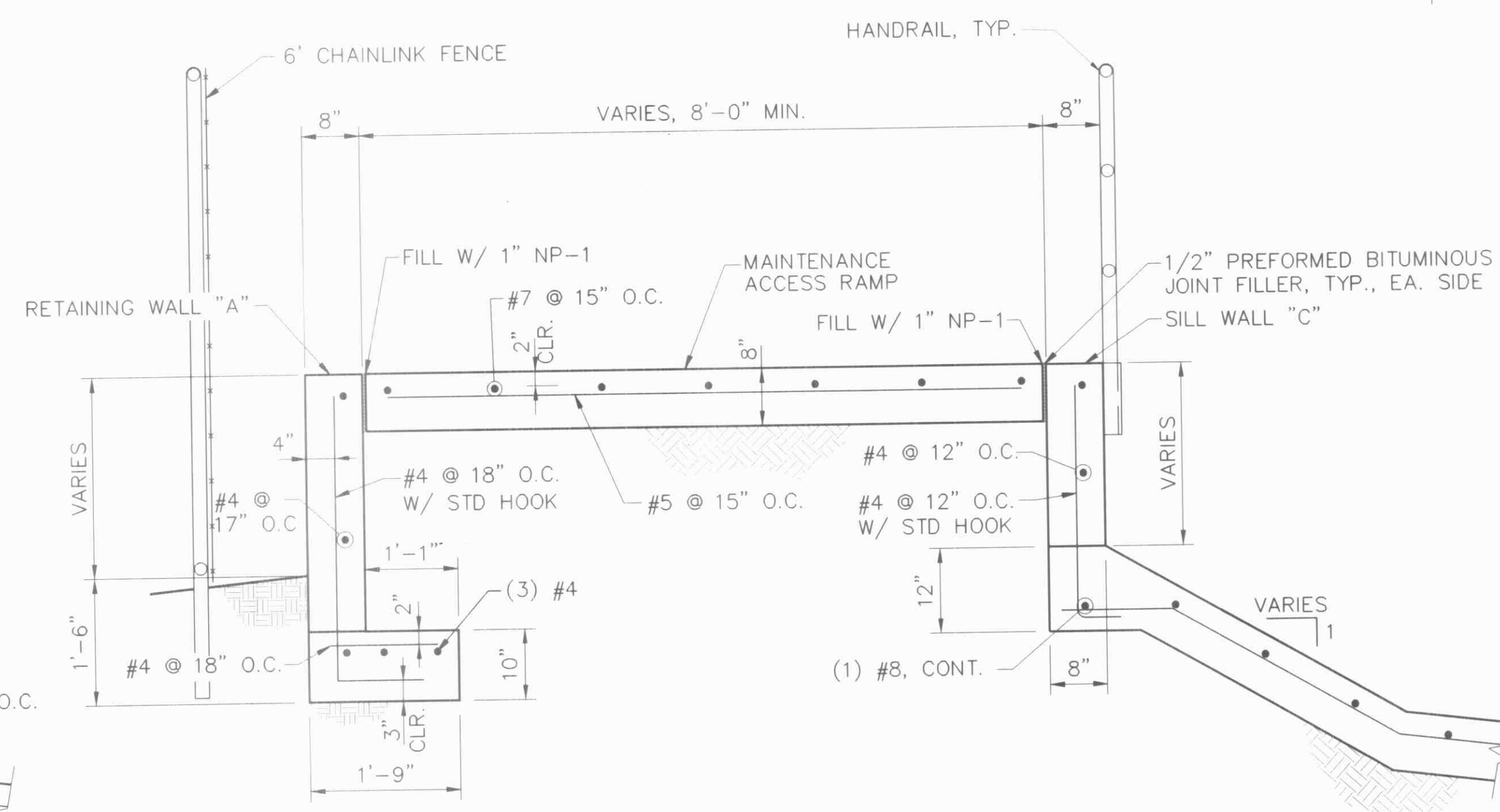
SECTION A
SCALE: 1/2"=1'-0"



DETAIL A
NOT TO SCALE



SECTION B
SCALE: 1/2"=1'-0"



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

RECORD DRAWING
DATE: 1-28-03

AS-BUILT INFORMATION CONTRACTOR: DAVE MONTGOMERY DATE: 10-02-02 INSPECTOR: C. O. A. DATE: 10-02-02 FIELD VERIFICATION: DAVE MONTGOMERY DATE: 10-02-02 CORRECTED BY: B.H. I. DATE: 01-03-03 MICRO-FILM INFORMATION RECORDED BY: [] DATE: [] NO. []	
BENCH MARKS ACS BRASS TABLET STAMPED "10-D18 1978" GEOGRAPHIC POSITION (NAD 1927) N.M. STATE PLANE COORDINATES CENTRAL ZONE X=404876.27 Y=1515687.39 GROUND-TO-GRID FACTOR = 0.9996560 DELTA ALPHA = 00° 11' 00" NGVD 1929 ELEVATION = 5319.15	
SURVEY INFORMATION FIELD NOTES NO. [] BY [] DATE []	
ENGINEER'S SEAL 	
REVISIONS No. [] Date [] By [] Design [] DATE: 08/22/01 DATE: 10/25/01 DATE: 10/25/01	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT RAY STREET DIP REPLACEMENT MAINTENANCE ACCESS RAMP DETAILS Design Review Committee: APPROVED 11/30/01 DESIGN REVIEW COMMITTEE: APPROVED 11/30/01 City Project No. 6256.91 Zone Map No. D-18 Sheet 9 of 11	

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESENT A LIFE OR PROPERTY IS EXCLUDED. WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.

2. 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.

3. 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.

4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.

5. 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.

6. 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.

7. 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.

8. 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.

9. 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.

10. 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.

11. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.

12. 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.

13. 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.

14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.

16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

17. 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.

18. 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.

19. 48 HOURS PRIOR TO OCCUPANCY 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.

20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

21. 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.

22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

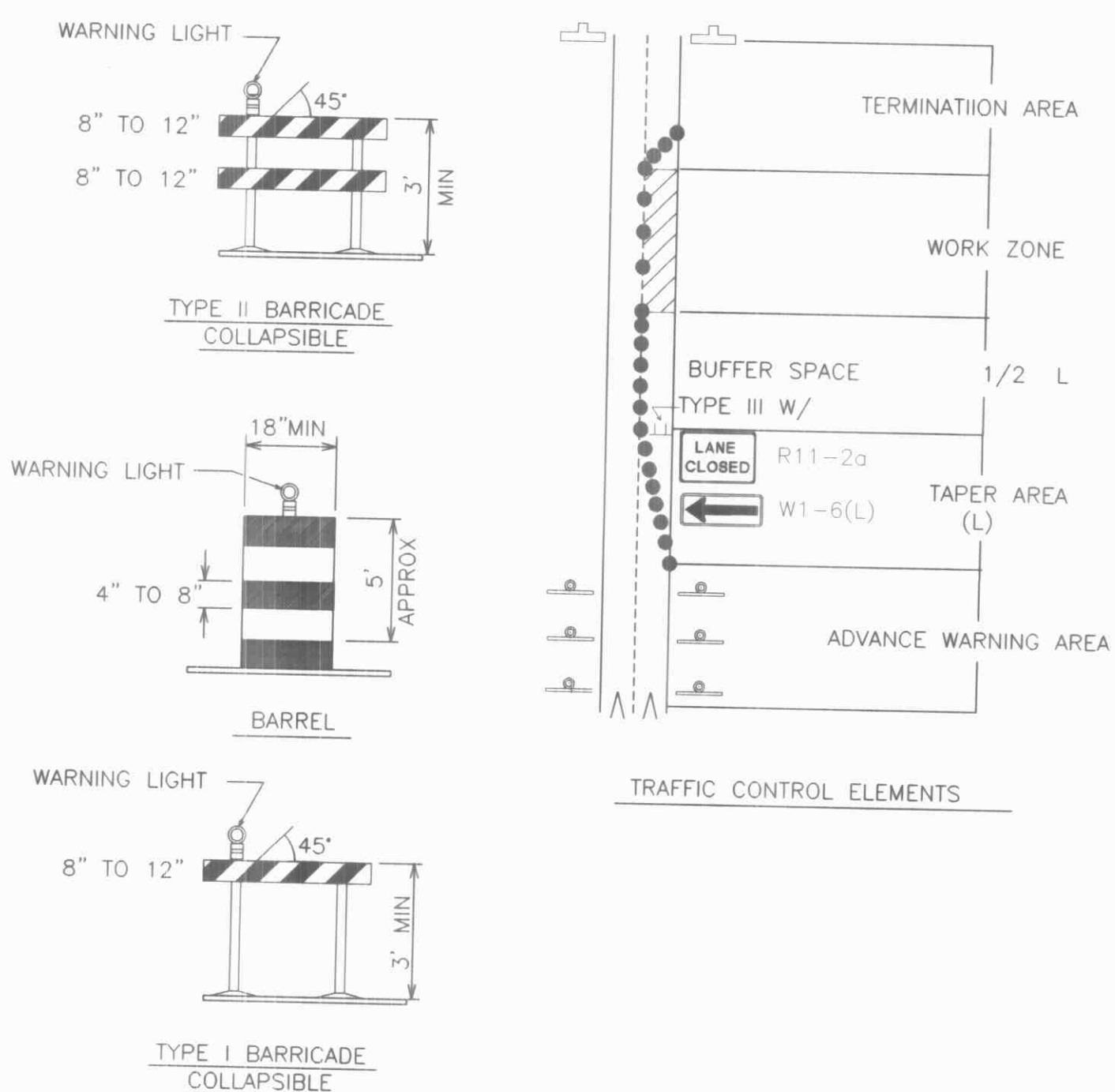
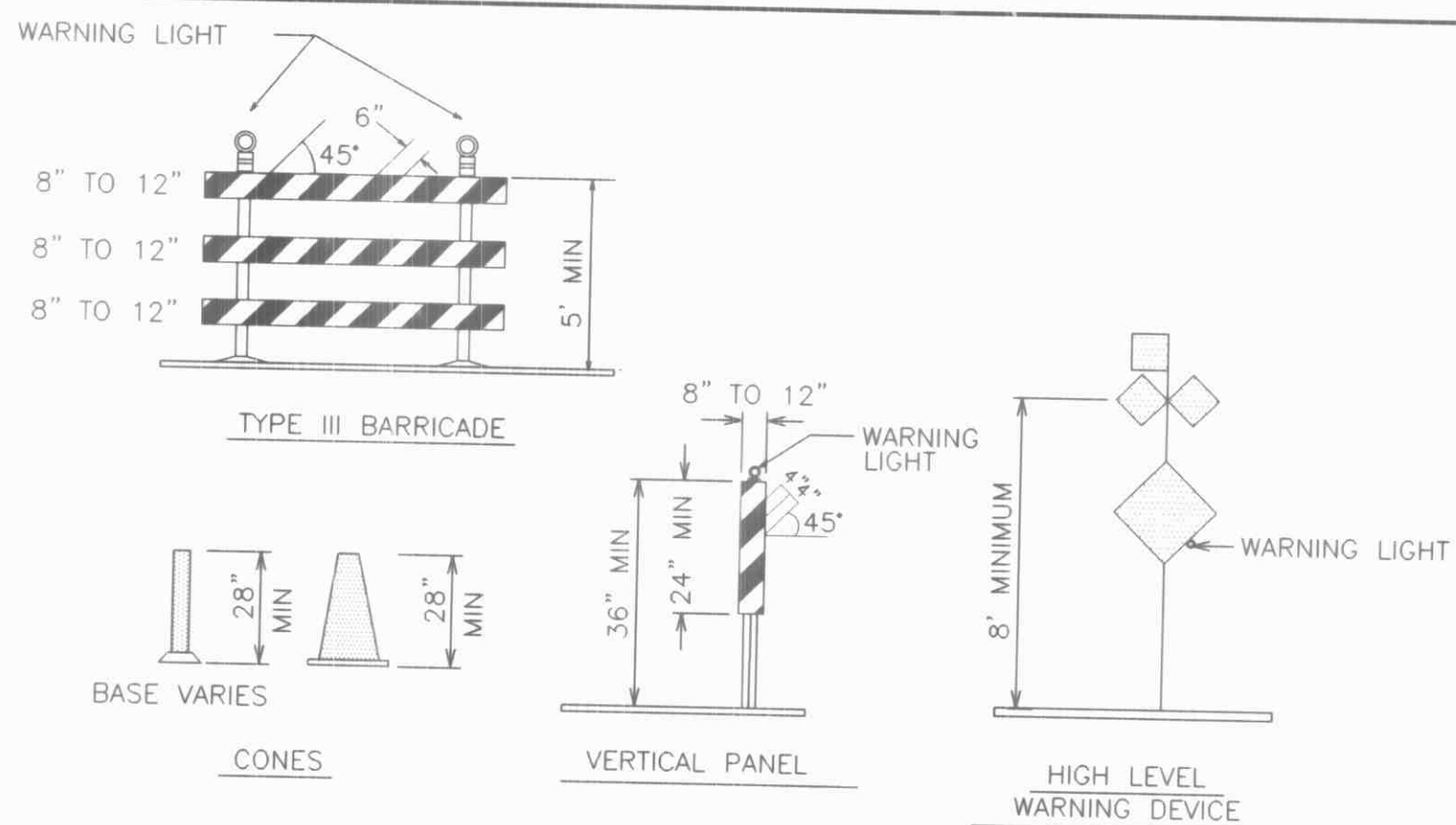
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION, WASHING OF EQUIPMENT IS INCIDENTAL TO ITS PLACEMENT AND MAINTENANCE.

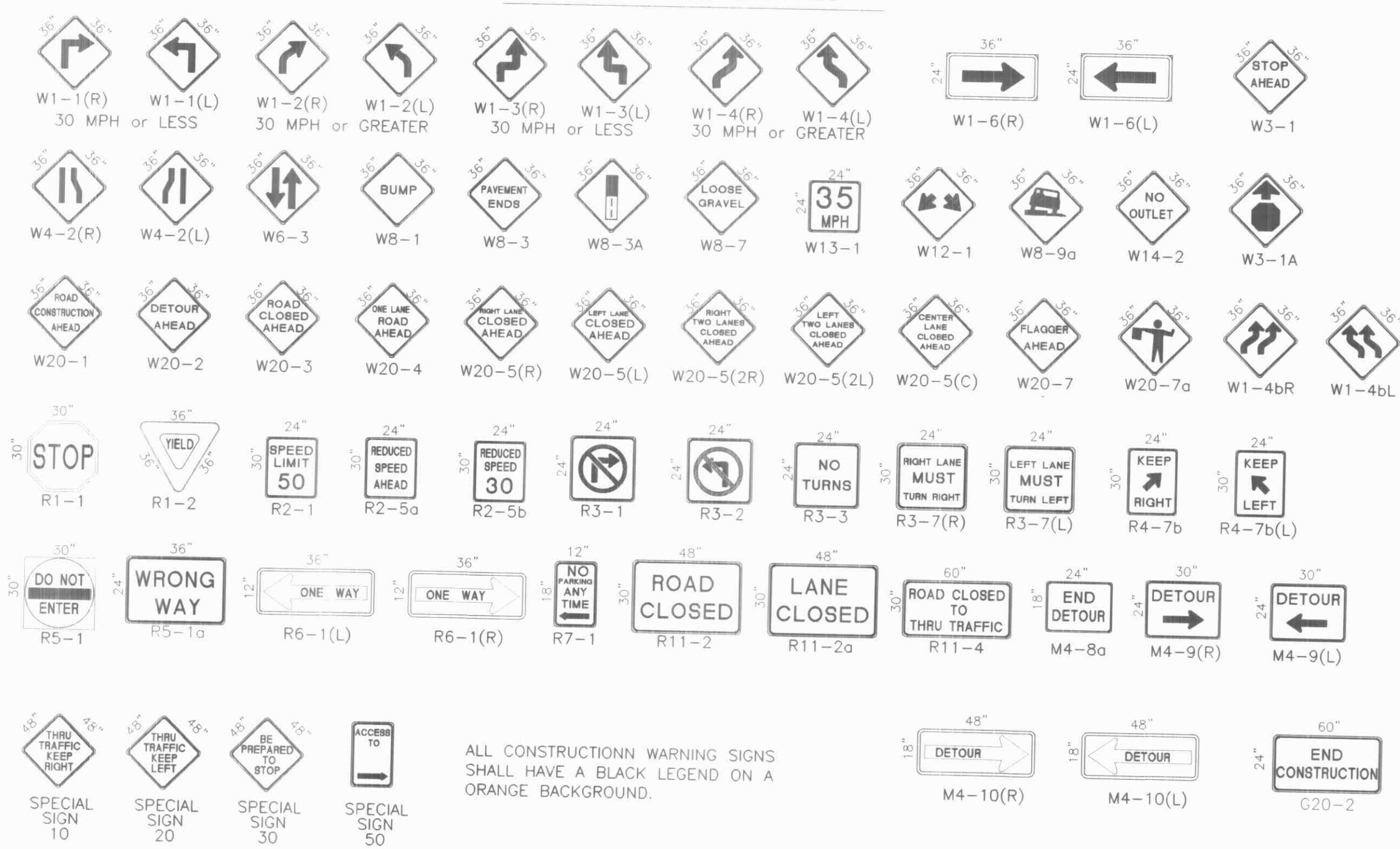
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

26. 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.

27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.



SIGN FACE DETAILS



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

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 IN FEET 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
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

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

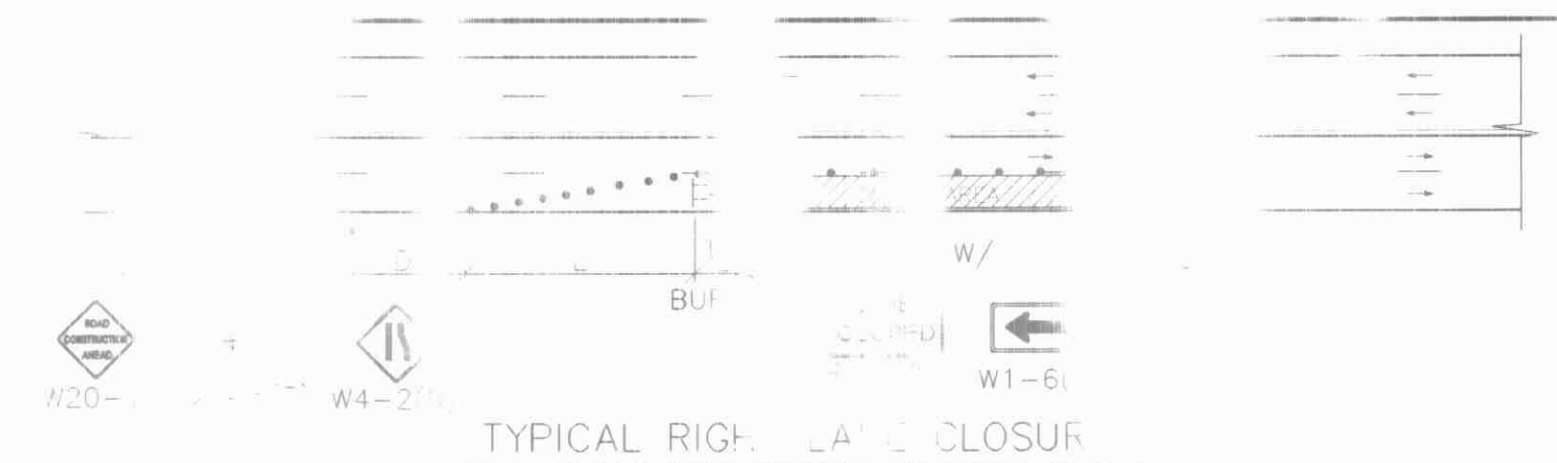
L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH

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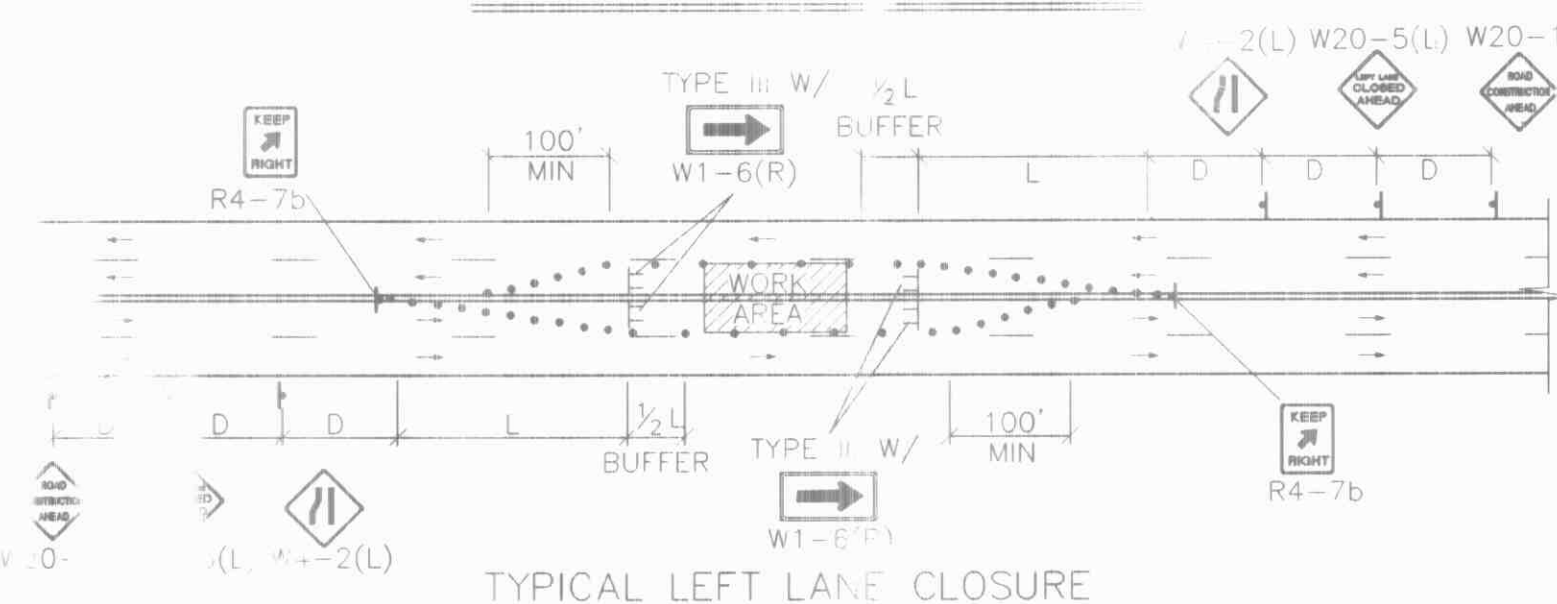
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT

RAY STREET DIP REPLACEMENT - SIGNING & CONSTRUCTION TRAFFIC CONTROL STANDARDS

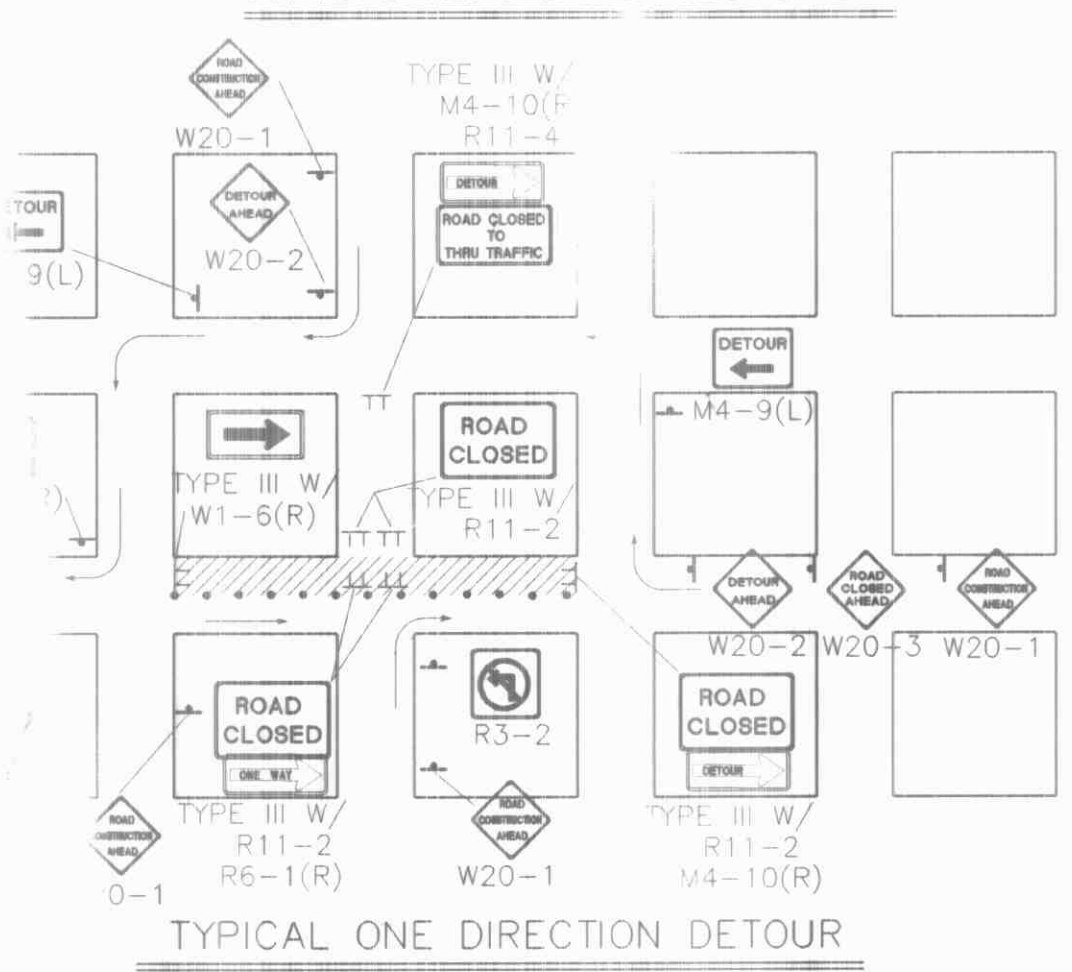
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
COA	STD		
City Project No.	Zone Map No.	Sheet	Of
6256.91	D-18	10	11



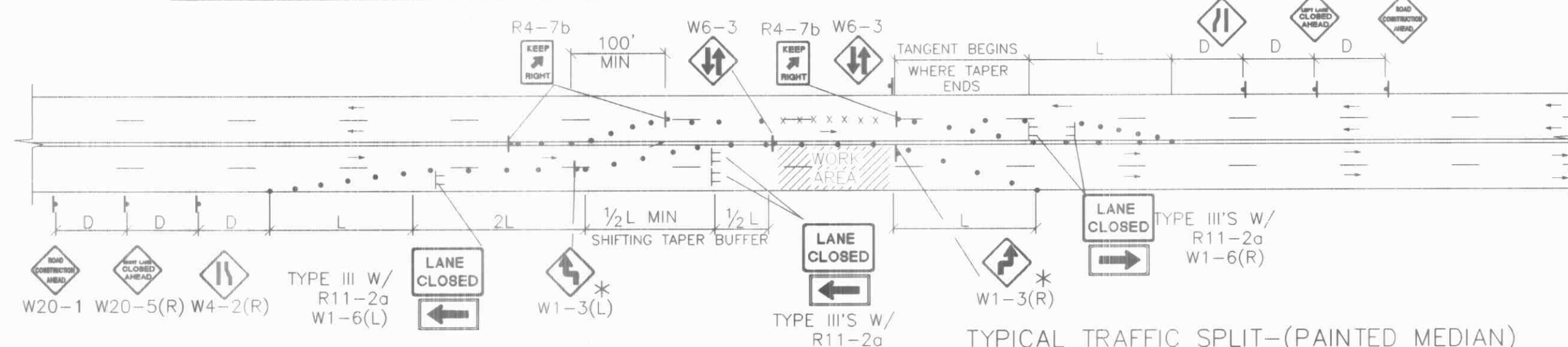
TYPICAL RIGHT LANE CLOSURE



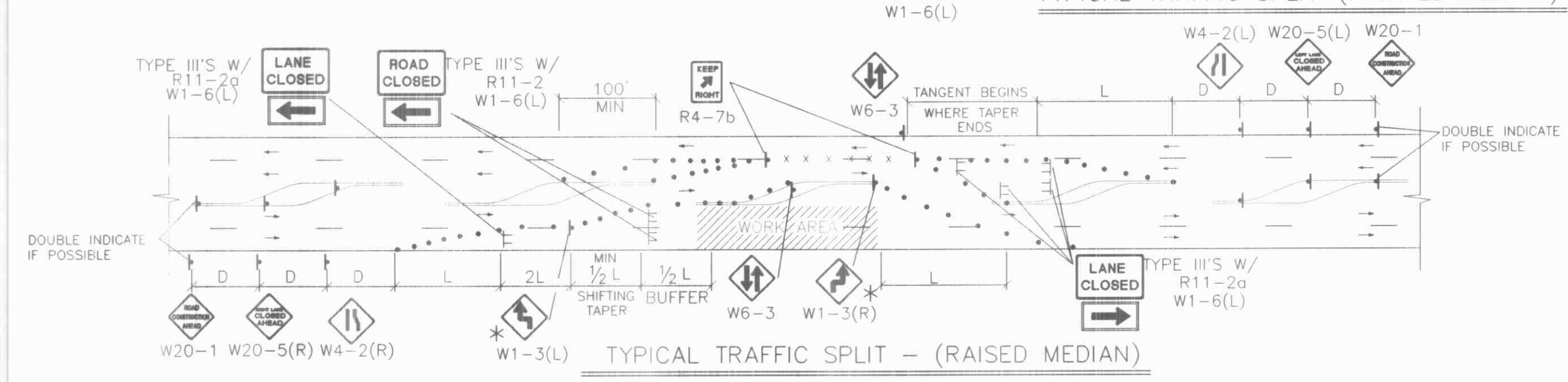
TYPICAL LEFT LANE CLOSURE



TYPICAL ONE DIRECTION DETOUR

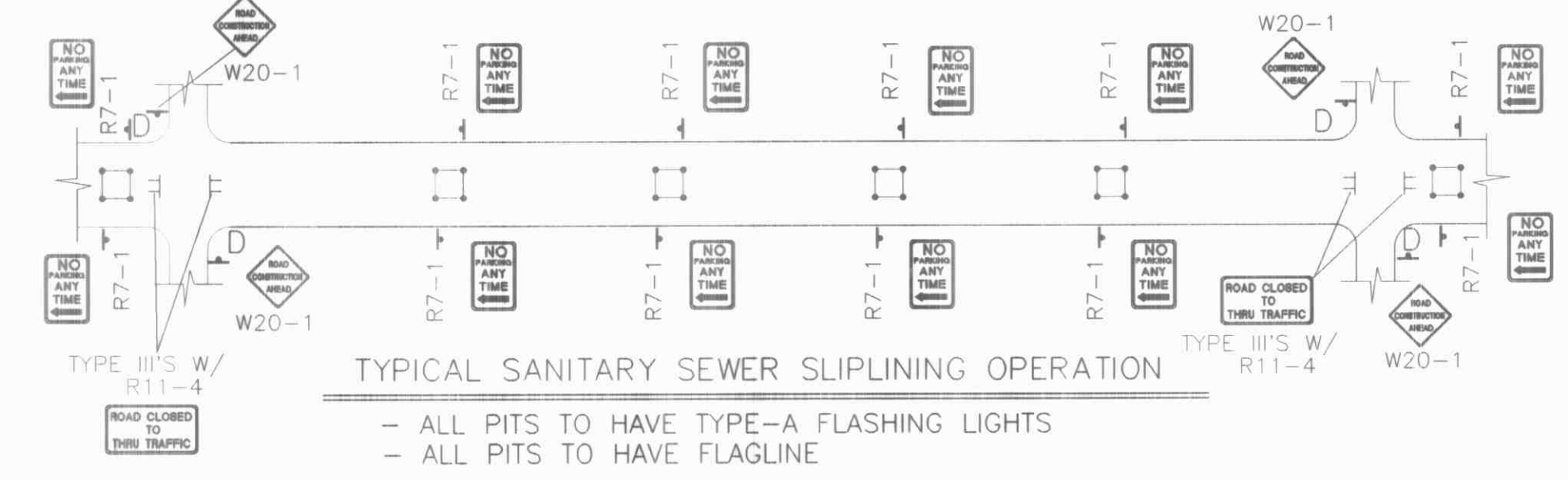


TYPICAL TRAFFIC SPLIT - (PAINTED MEDIAN)



TYPICAL TRAFFIC SPLIT - (RAISED MEDIAN)

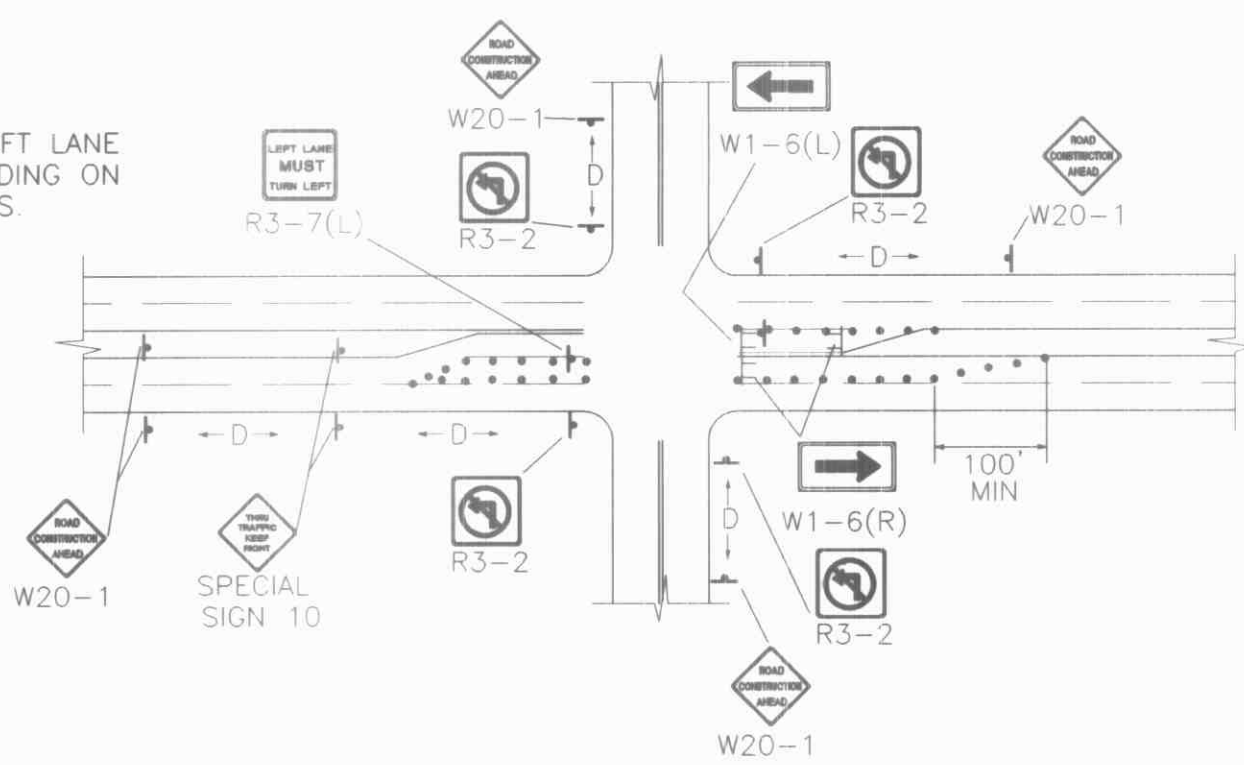
- TRAFFIC SPLIT NOTES:
1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
 2. 1/2 L IS THE MINIMUM DISTANCE FOR SHIFTING TAPERS.
 3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
 4. MEDIAN REMOVAL SHALL BE REQUIRED IF 1/2 L OR REVERSE CURVE IS NOT SUFFICIENT. MEDIAN REMOVAL SHALL TAKE PLACE BEFORE SPLITS.
 5. REDUCED SPEED MAY BE CONSIDERED.
 6. * USE W1-3 FOR 30 MPH OR LESS, W1-4 FOR SPEED 35 MPH OR GREATER.



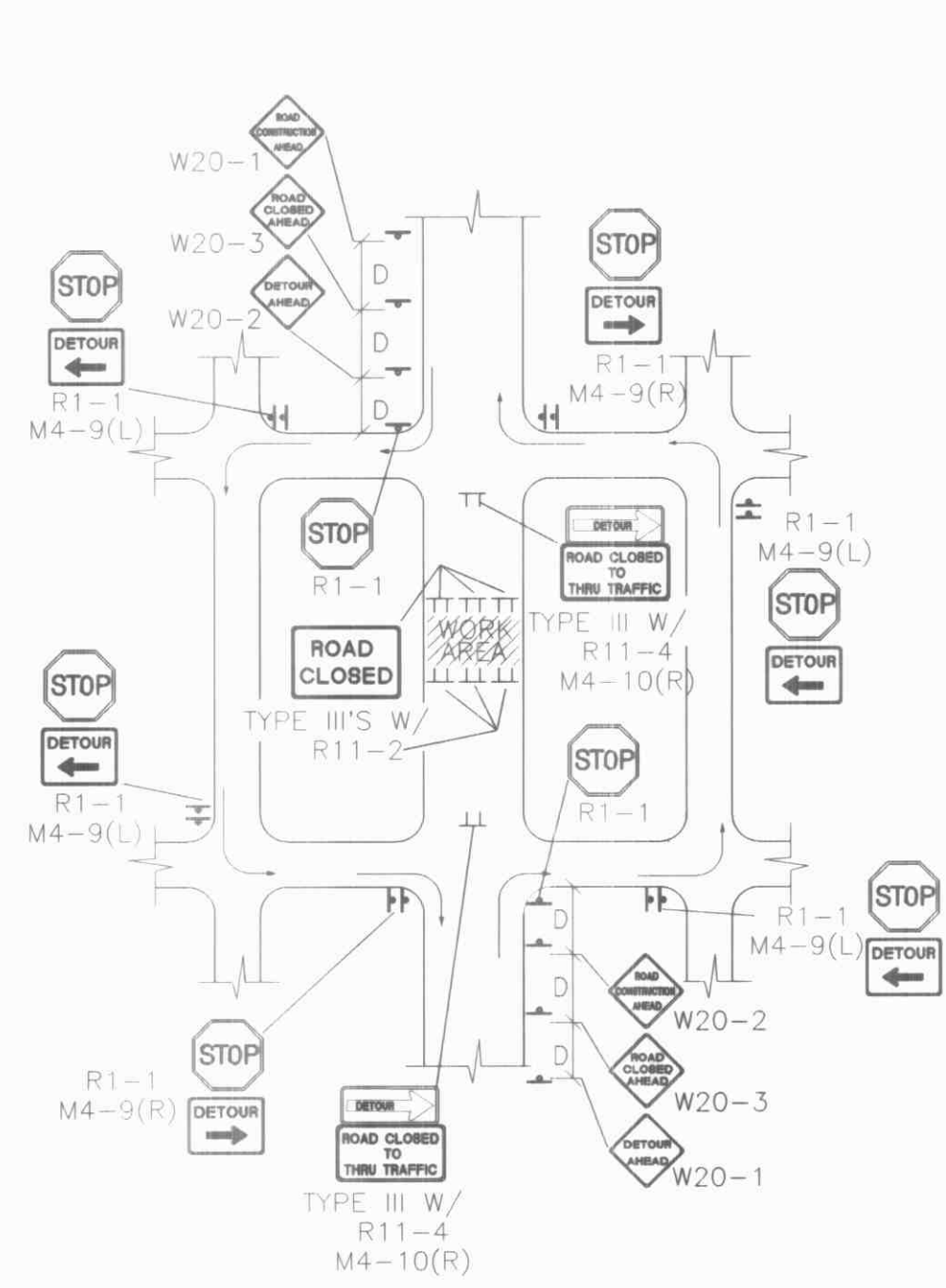
TYPICAL SANITARY SEWER SLIPLINING OPERATION

- ALL PITS TO HAVE TYPE-A FLASHING LIGHTS
- ALL PITS TO HAVE FLAGLINE

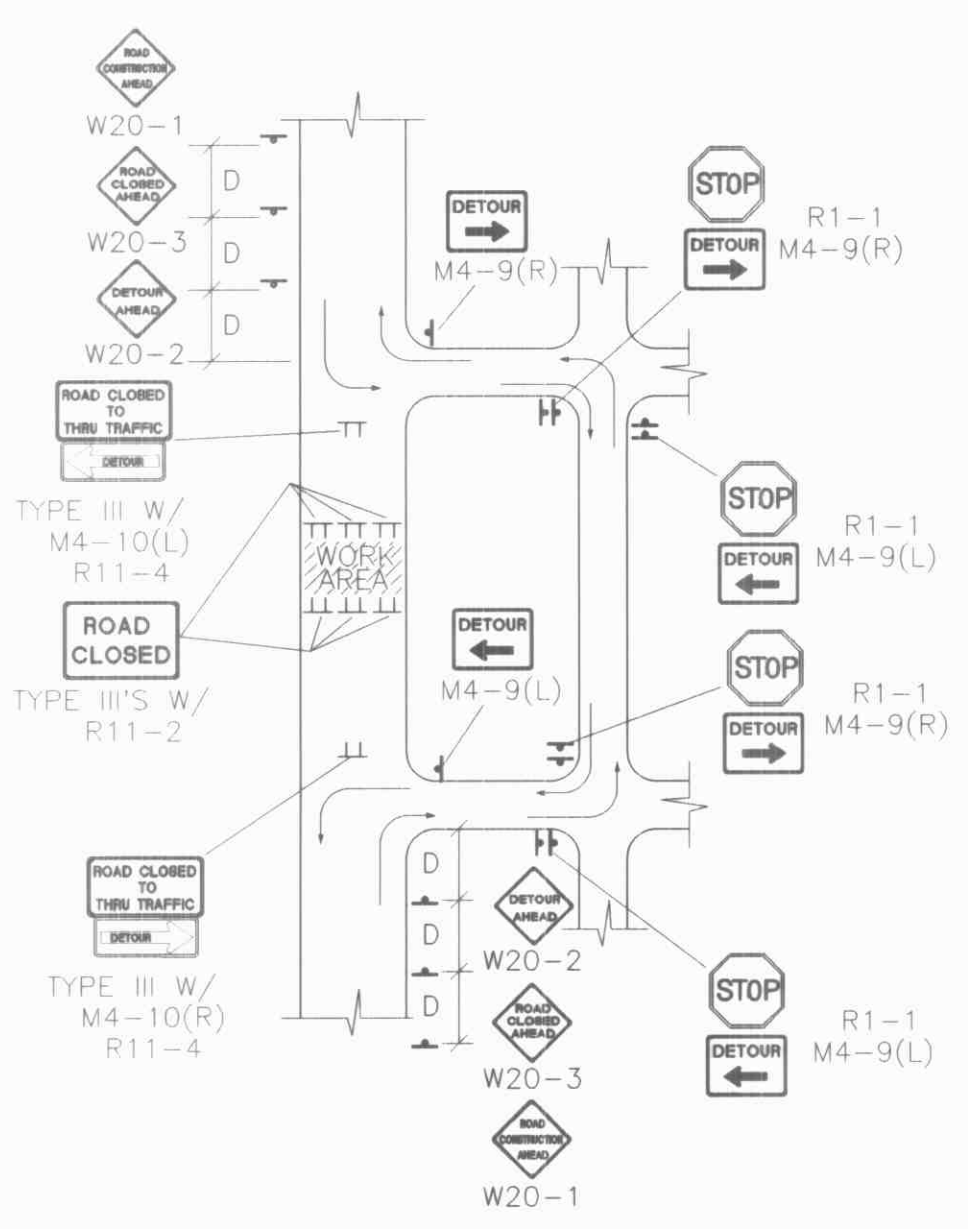
NOTE:
MAY REQUIRE LEFT LANE
CLOSURE DEPENDING ON
FIELD CONDITIONS.



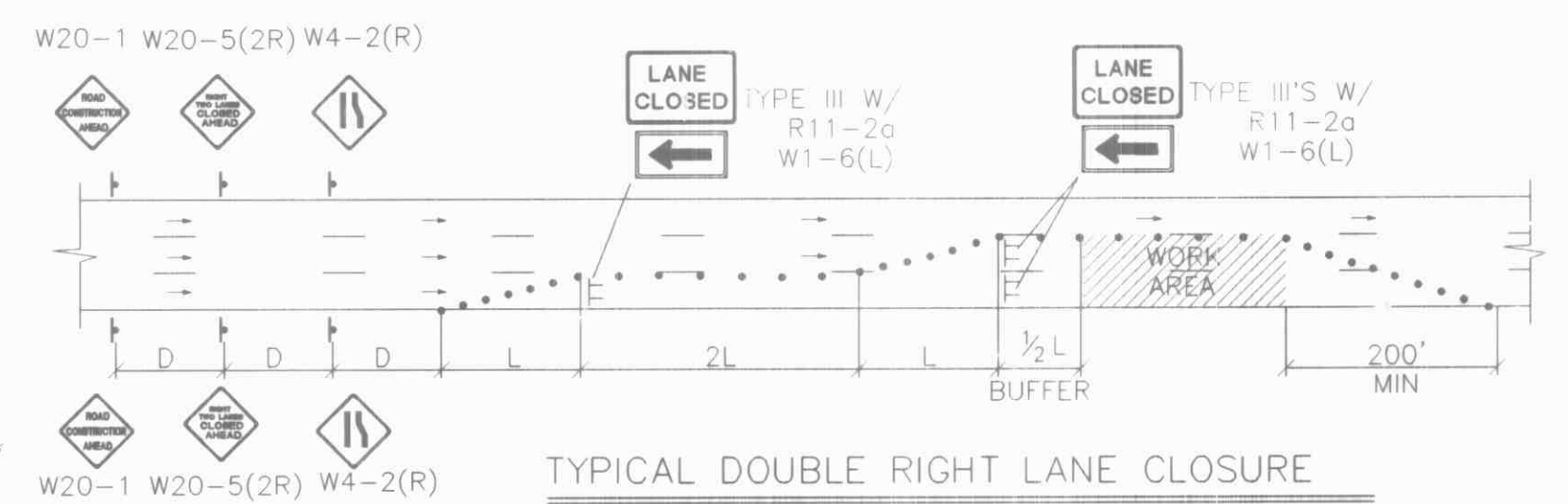
TYPICAL LANE CLOSURE AT INTERSECTION
NOTE: DEPENDING ON WORK ZONE LOCATION.



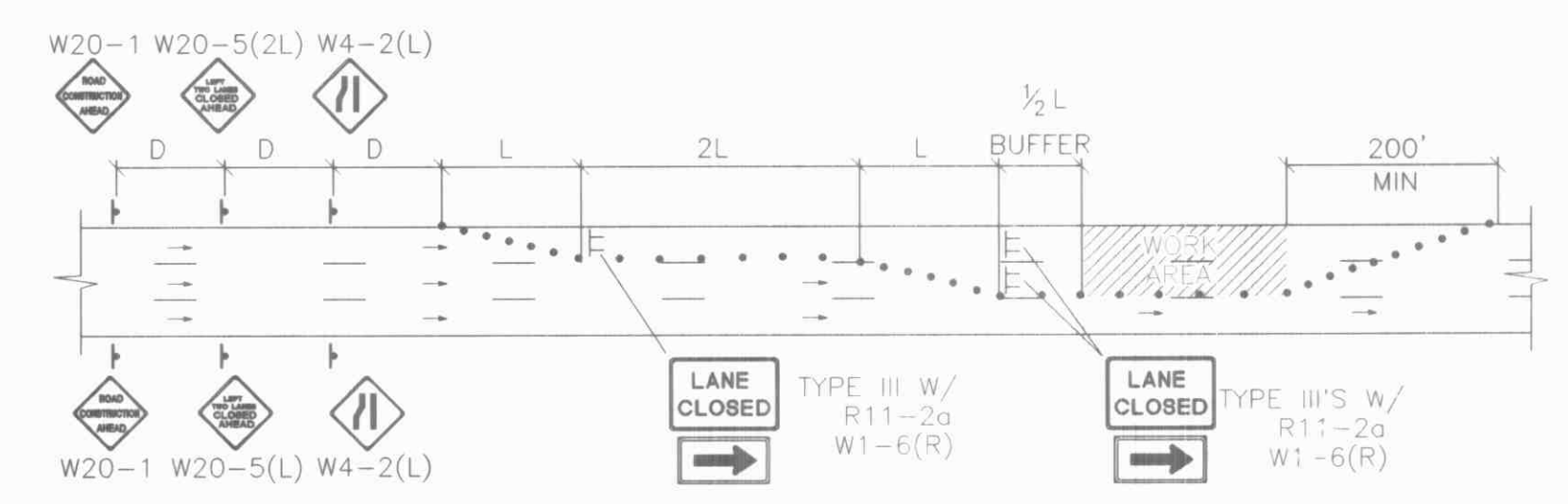
TYPICAL MID-BLOCK CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



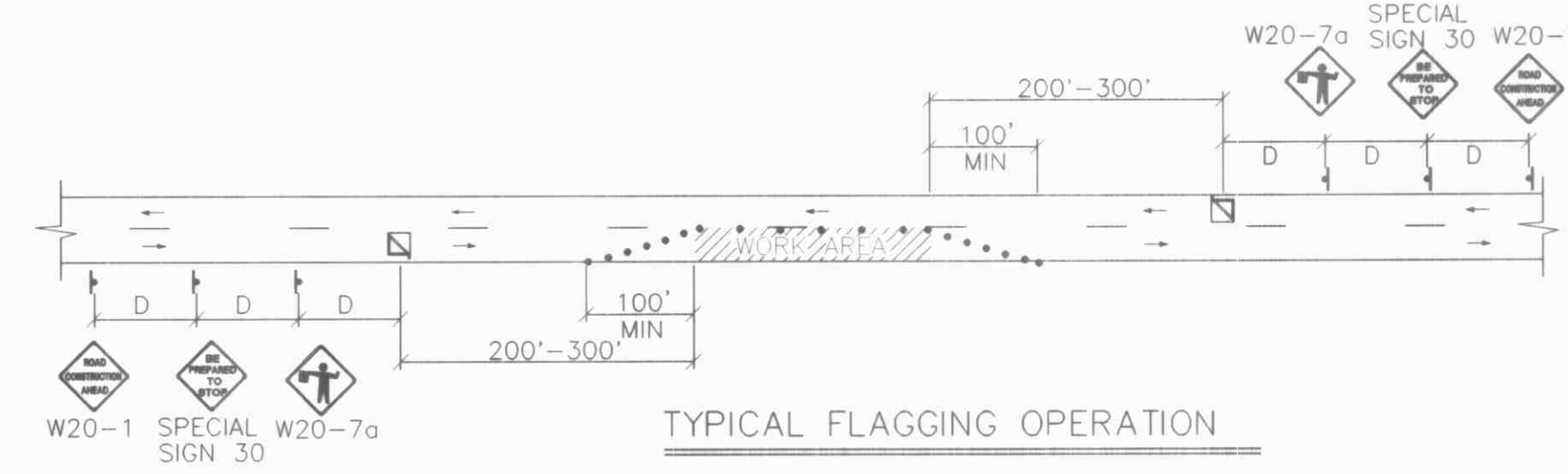
TYPICAL STREET CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



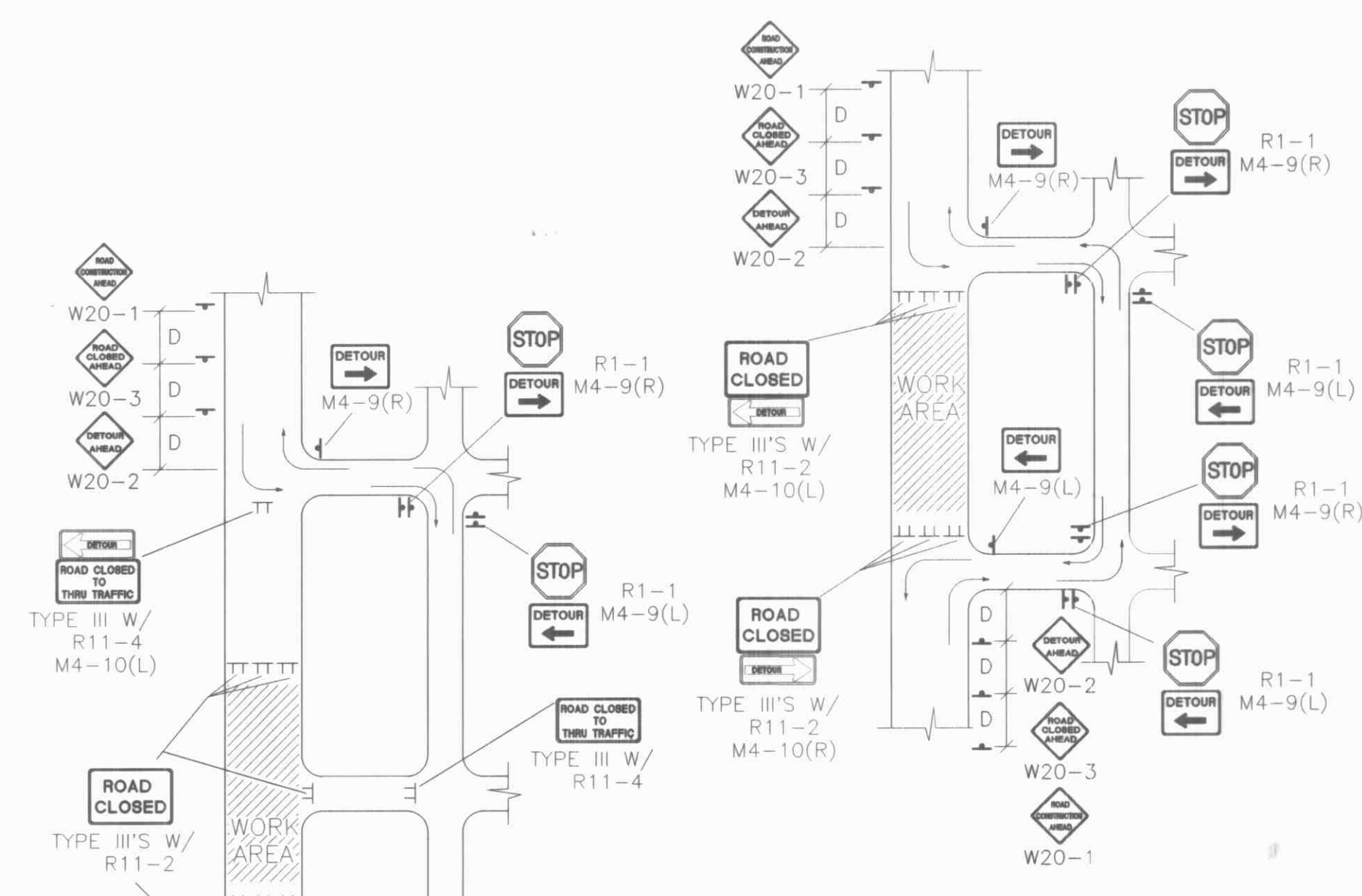
TYPICAL DOUBLE RIGHT LANE CLOSURE



TYPICAL DOUBLE LEFT LANE CLOSURE



TYPICAL FLAGGING OPERATION



TYPICAL STREET CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.

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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT	
RAY STREET DIP REPLACEMENT - TYPICAL TRAFFIC CONTROL AND SIGNING EXAMPLES	
Design Review Committee	City Engineer Approval
COA	STD
City Project No. 6256.91	Zone Map No. D-18
Sheet 11	Of 11

ENGINEER'S SEAL										SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
										ACS BRASS TABLET STAMPED "10-D18 1978"		CONTRACTOR		DATE	
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										BY		STAKED BY		DATE	
										NO.		N.M. STATE PLANE COORDINATES		DATE	
												CENTRAL ZONE X=404876.27 Y=1515687.39		DATE	
												GROUND-TO-GRID FACTOR = 0.9996560		DATE	
												DELTA ALPHA - 00° 11' 00"		DATE	
												NGVD 1929 ELEVATION = 5319.15		DATE	
												MICRO-FILM INFORMATION		NO.	
												RECORDED BY		DATE	
														NO.	

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