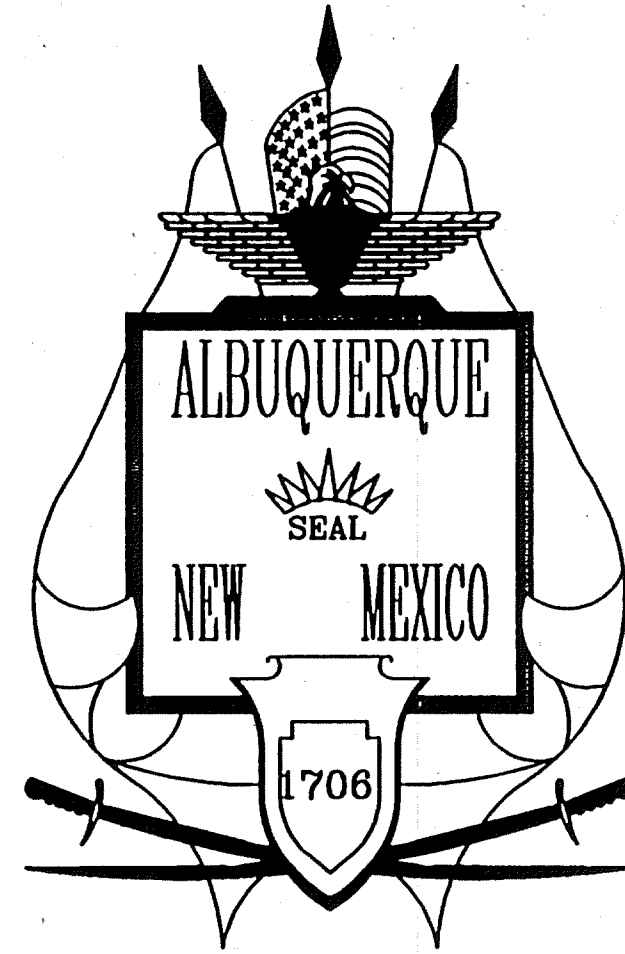


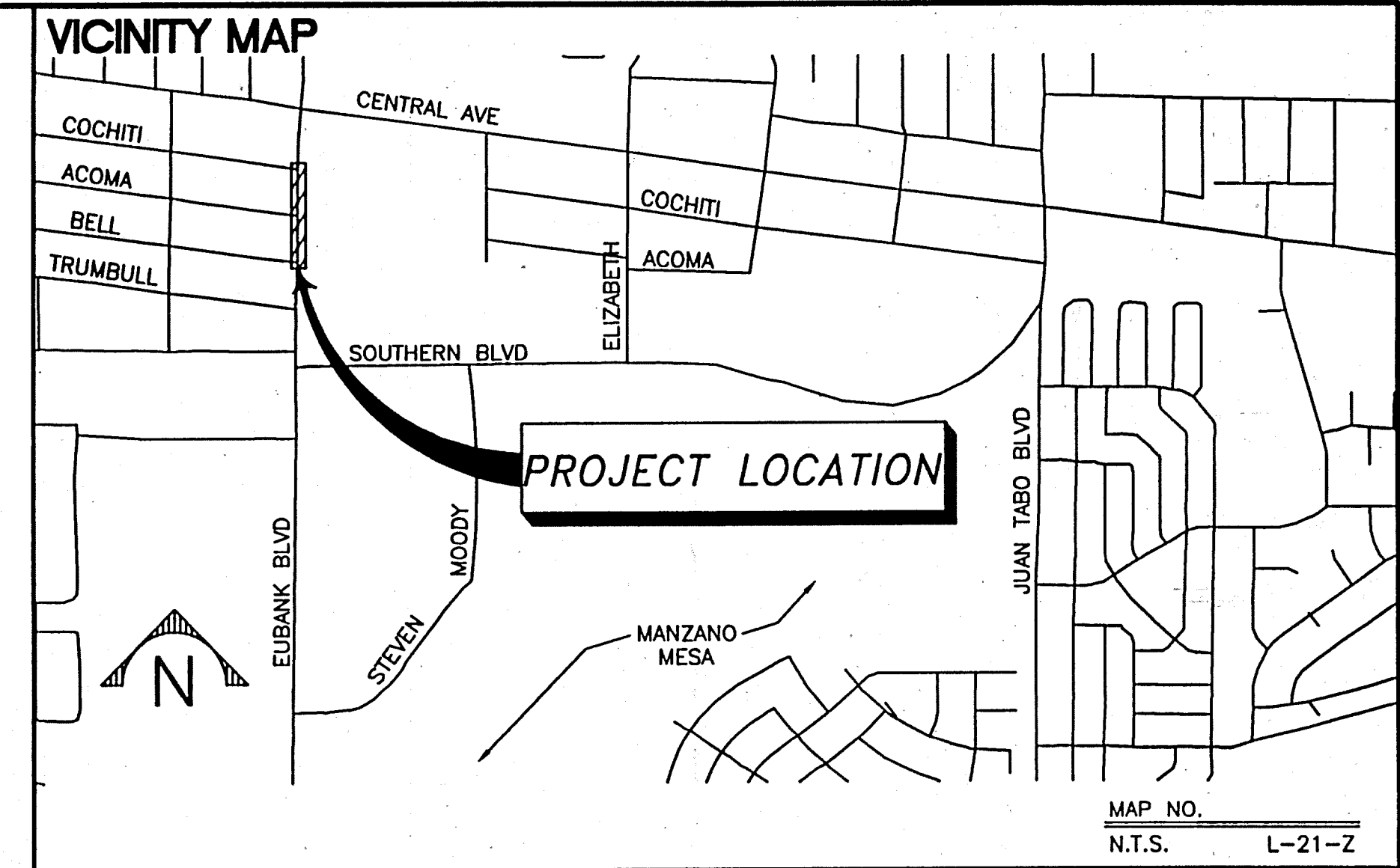
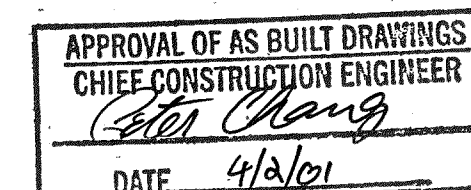


CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
PLANS FOR CONSTRUCTION

EUBANK STORM DRAIN

(COCHITI ROAD TO BELL AVENUE)
ADDITIVE ALTERNATE #1
INDEX TO DRAWINGS

SHEET NO.	TITLE
1	TITLE SHEET, VICINITY MAP, SHEET INDEX
2	GENERAL NOTES, LEGEND, AND WATER SHUT-OFF PLAN
3	UTILITY P & P: EUBANK BLVD.: STA. 1+00 TO 5+50
4	UTILITY P & P: EUBANK BLVD.: STA 5+50 TO 7+72.92
5	GRADING PLAN
6	DETAIL SHEET
7	DETAIL SHEET
8	TYPICAL TRAFFIC CONTROL AND SIGNING EXAMPLES
9	SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS
10	PHASE I-AM: TRAFFIC CONTROL & SIGN SEQUENCE
11	PHASE I-PM: TRAFFIC CONTROL & SIGN SEQUENCE
12	PHASE II: TRAFFIC CONTROL & SIGN SEQUENCE
13	PHASE III: TRAFFIC CONTROL & SIGN SEQUENCE



RECORD DRAWINGS

UTILITY COMPANY CONTACTS

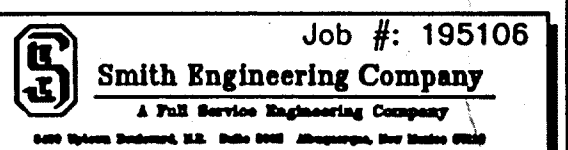
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AL SALAS
201 Third Street
P.O. Box 1355, Sto. 952
Albuquerque, New Mexico 87103
(505) 245-6694



REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVED	ENGINEER	DATE	APPROVED FOR CONSTRUCTION		
		DRC Chairman	<i>David G. Pugh</i>	12/11/98	<i>David G. Pugh</i> 12/11/98 CITY ENGINEER DATE		
		Transportation	<i>David G. Pugh</i>	10-27-98			
		Water/Wastewater	<i>David G. Pugh</i>	10-27-98			
		Hydrology	<i>David G. Pugh</i>	10-27-98			
		C.I.P.I.	<i>David G. Pugh</i>	10-27-98			
		Constr. Maint.	<i>David G. Pugh</i>	10-30-98			
		Constr. Coord.	<i>David G. Pugh</i>	10-30-98			
				PROJECT NUMBER	4790.93	SHEET 1 OF 13	

IVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A DETAILED CONSTRUCTION SCHEDULE TO THE CITY CONSTRUCTION COORDINATION DIVISION. TWO (2) DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL OBTAIN A BARRICADE PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF SPECIFICATIONS.

THE CONTRACTOR WILL NOTIFY THE FIELD ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK, IN ORDER THAT THE CITY SURVEY SECTION MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. THE CONTRACTOR WILL NOTIFY THE ENGINEER IF A MONUMENT IS DISTURBED. REPLACEMENT WILL BE DONE ONLY BY THE CITY SURVEY SECTION. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR WILL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4 OF SPECIFICATIONS.

THE SPECIFICATIONS USED FOR THIS PROJECT ARE THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1994 EDITION, UPDATE NO.6.

ALL NEW MANHOLES SHALL BE TYPE "E" (COA DWG. 2102) UNLESS OTHERWISE NOTED ON THE PLANS.

THE CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS, INCLUDING, BUT NOT LIMITED TO HAZARDOUS WASTE AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIALS.

ALL WATER VALVE BOXES AND MANHOLES IN THE STREET CONSTRUCTION ARE TO BE ADJUSTED TO FINISH GRADE AND WILL BE MEASURED AND PAID PER EACH.

SUBGRADE PREPARATION UNDER SIDEWALKS AND DRIVE PADS, AND SUBGRADE AND SUBBASE PREPARATION UNDER CURB AND GUTTER IS CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF SUCH, AND NO DIRECT PAYMENT SHALL BE MADE FOR THOSE ITEMS OF WORK.

THE CONTRACTOR WILL REPLACE ANY STRIPPING THAT HAS BEEN RUINED OR REMOVED IN THE COURSE OF CONSTRUCTION. *Per note 3A.*

ALL EXCAVATION WILL BE GOVERNED BY FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH. ALL EXCAVATION, TRENCHING AND SHIELDING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH CITY OF ALBUQUERQUE SPECIFICATIONS.

ALL SIGNS AND CODING WILL BE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" CURRENT EDITION, PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION.

THE CONTRACTOR IS TO EXERCISE CARE TO AVOID DISTURBING ANY EXISTING UNDERGROUND UTILITIES. IT WILL BE HIS RESPONSIBILITY TO COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION. SEE SECTION 18 "UTILITIES", CITY OF ALBUQUERQUE, STANDARD SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS.

WHEN ABUTTING NEW PAVEMENT TO EXISTING INTERSECTING STREETS, SAW CUT EXISTING PAVEMENT TO A STRAIGHT LINE AND AT RIGHT ANGLES AND REMOVE ANY BROKEN OR CRACKED PAVEMENT. NO DIRECT PAYMENT WILL BE MADE FOR SAW CUTTING.

ALL GAS VALVES, GAS MANHOLES, ELECTRICAL MANHOLES, TELEPHONE MANHOLES, AND UTILITY POLES WILL BE ADJUSTED TO GRADE BY EACH UTILITY COMPANY. CONTRACTOR WILL COORDINATE THROUGH CITY UTILITY COORDINATOR.

WHEN REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK IS REQUIRED, REMOVE BACK TO NEAREST SUITABLE JOINT UNLESS OTHERWISE DIRECTED BY THE CITY FIELD ENGINEER.

THE CONTRACTOR WILL NOTIFY THE UTILITY COMPANIES BY CALLING NEW MEXICO ONE CALL SYSTEM 260-1990 TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK IN NEW AREAS.

CONTRACTOR WILL MAKE ALL WATER VALVES AND MANHOLES ACCESSIBLE TO THE CITY AT ALL TIMES.

CONTRACTOR WILL PLACE BITUMINOUS MATERIAL WITH THE USE OF A LAYDOWN MACHINE WHERE PAVEMENT IS 8 FEET IN WIDTH OR WIDER.

ALL SUBGRADE AND SUBBASE MATERIAL ENCOUNTERED IN PAVEMENT REMOVAL AND REPLACEMENT THAT IS DETERMINED BY THE FIELD ENGINEER TO MEET THE SPECIFICATIONS, CAN BE REUSED. HOWEVER, THE MATERIAL WILL BE PROCESSED AND COMPACTED TO MEET MOISTURE CONTENT AND PERCENT COMPACTION REQUIRED BY THE SPECIFICATIONS.

CONTRACTOR WILL NOT PAVE OVER ANY SURFACE FEATURE, I.E., GAS VALVE, MANHOLE COVER, ETC. WITHOUT PRIOR APPROVAL FROM THE CITY FIELD ENGINEER.

CONTRACTOR WILL CONFINE HIS WORK WITHIN THE CONSTRUCTION EASEMENT LIMITS AND/OR RIGHT-OF-WAY, OR PROVIDE COPIES OF AGREEMENTS WITH ADJACENT LANDOWNERS TO THE CITY OF ALBUQUERQUE.

ALL WATER VALVES AND FIRE HYDRANTS REMOVED TO BE SALVAGED AND RETURNED TO THE C.O.A.

MINIMUM BOTTOM WIDTH OF TRENCHES FOR RIGID MATERIAL SHALL BE CLASS II, II OR IV OUTSIDE DIAMETER PLUS 16 INCHES. BEDDING ON THE PLANS.

UNLESS OTHERWISE SPECIFICALLY

MINIMUM BOTTOM WIDTH OF TRENCHES FOR NON-RIGID MATERIAL SHALL BE CLASS I, II OR IV OUTSIDE DIAMETER PLUS 12 INCHES. BEDDING

THE CONTRACTOR AGREES TO TAKE NECESSARY SAFETY PRECAUTIONS AS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES TO PROTECT PEDESTRIAN AND VEHICULAR TRAFFIC IN THE CONSTRUCTION AREA, WHICH INCLUDE BUT ARE NOT LIMITED TO: MAINTAINING ADEQUATE WARNING SIGNS, BARRICADES, LIGHTS, GUARD FENCES, WALKS AND BRIDGES.

ALL STRUCTURAL CONCRETE WILL BE 4000 PSI UNLESS OTHERWISE NOTED ON PLANS.

ALL REINFORCING STEEL WILL BE GRADE 60.

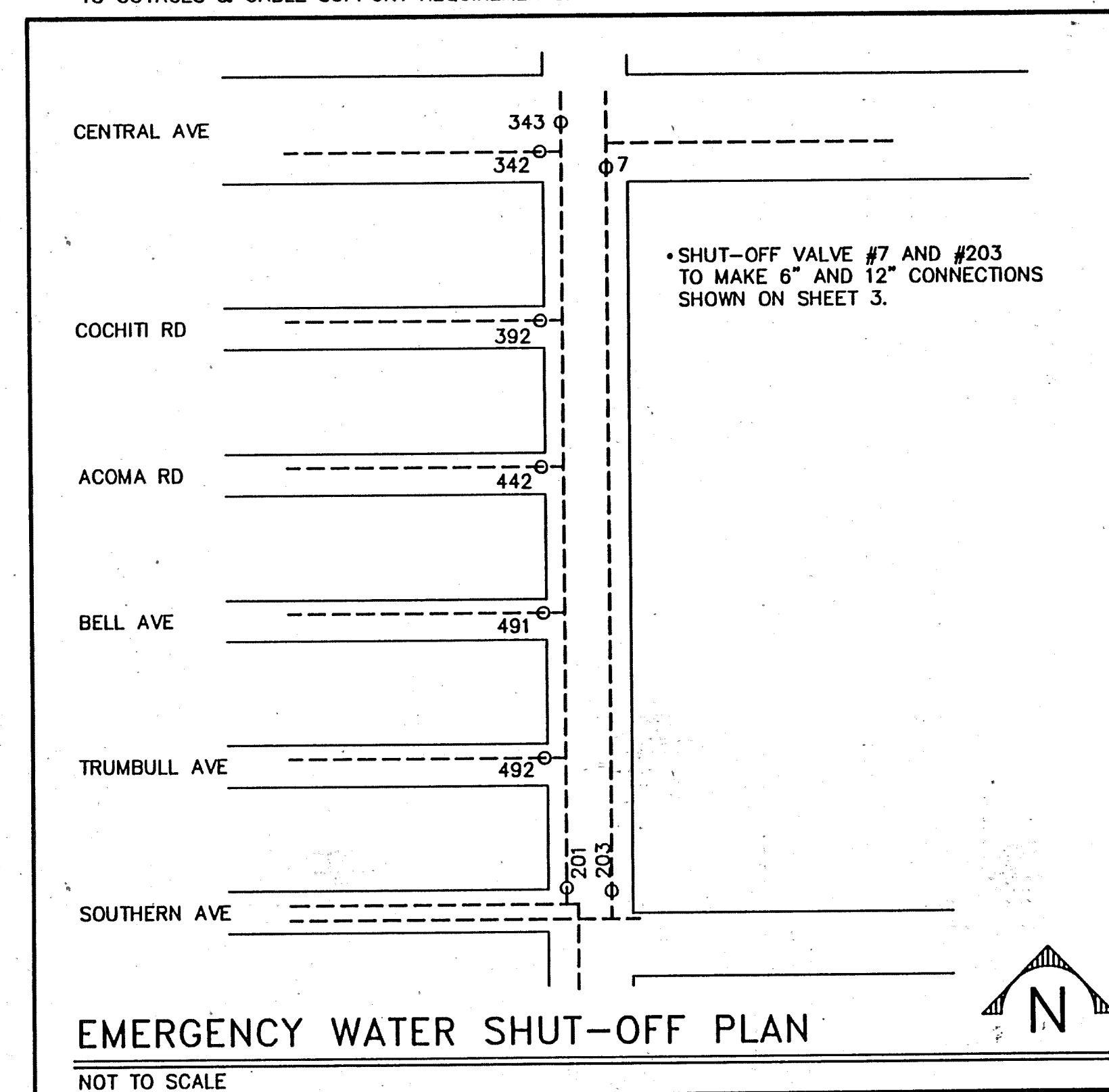
ALL EXPOSED EDGES ON CAST-IN-PLACE CONCRETE STRUCTURES WILL HAVE A 1" CHAMFER UNLESS OTHERWISE NOTED.

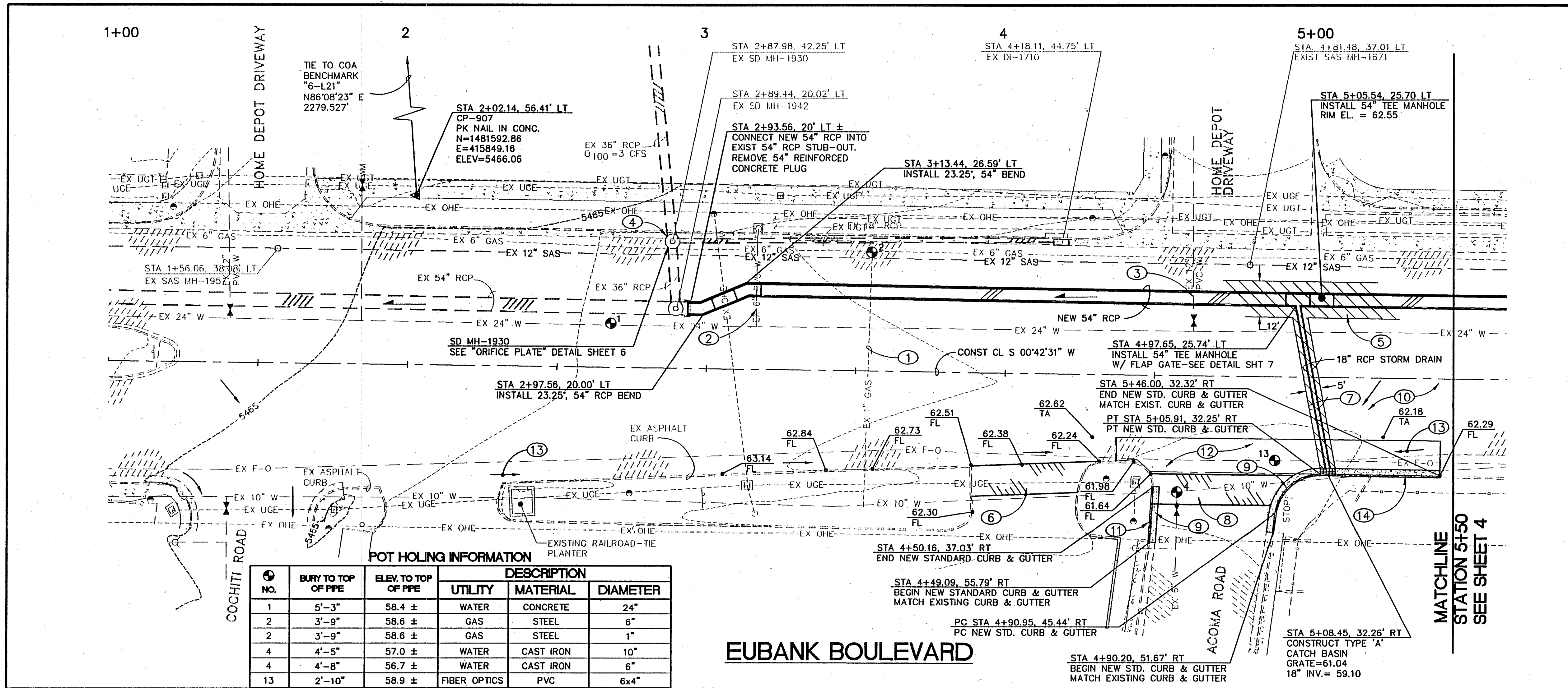
ALL SPLICES IN REINFORCING STEEL TO BE 2-FOOT 6-INCH MINIMUM UNLESS OTHERWISE NOTED.

- PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL CONFLICTING UTILITIES. SHOULD THE CONFLICT EXIST BETWEEN THE FIELD INFORMATION AND THE PLANS, THE CONTRACTOR WILL NOTIFY THE CITY FIELD ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
- 30 THE REPLACEMENT OF THE EXISTING UTILITIES AND THE INSTALLATION OF NEW UTILITY LINES WILL BE COMPLETED IN ADVANCE OF STARTING THE PAVEMENT WORK. TEMPORARY PAVEMENT WILL BE PLACED IN ALL TRENCHES REQUIRED FOR THE UTILITY REPLACEMENTS IN THOSE AREAS THAT MUST MAINTAIN TRAFFIC UNTIL THE FINAL PAVEMENT WORK STARTS IN EACH AREA. TEMPORARY STRIPING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. MAINTENANCE OF THE TEMPORARY PAVING AND STRIPING WILL BE AT THE CONTRACTOR'S EXPENSE.
- 31 TACK COAT FOR SURFACE COURSE REQUIREMENTS WILL BE DETERMINED BY THE CITY FIELD ENGINEER.
- 32 THE CONTRACTOR WILL CONTACT THE CITY OF ALBUQUERQUE TRAFFIC DIVISION 857-8025, ONE (1) WEEK IN ADVANCE OF ANY CHANGES REQUIRED IN THE TRAFFIC SIGNALIZATION OF THIS PROJECT. ALL WORK ASSOCIATED WITH NEW TRAFFIC SIGNALIZATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 33 ALL NEW STREET PAVING, DRIVEWAYS, SIDEWALKS, AND CURB AND GUTTERS, ABUTTING EXISTING AREAS SHALL MATCH THE ELEVATION OF THOSE AREAS.
- 34 PERMANENT PAVEMENT STRIPING AND MARKINGS WILL BE PLACED BY THE CONTRACTOR. ROAD SHALL NOT BE OPENED TO TRAFFIC UNTIL IT IS STRIPED. ALL STRIPING, PAVEMENT MARKINGS INCLUDING CROSSWALKS, ARROWS AND LINE MARKINGS ARE TO BE CONSTRUCTED OF HOT PLASTIC OR COLD PLASTIC IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 35 ALL EXCAVATED MATERIAL THAT IS NOT REQUIRED TO BE REUSED MUST BE REMOVED FROM THE PROJECT AREA WITHIN FOUR DAYS OF EXCAVATION. SPOIL PILES WILL BE ALLOWED ONLY AS DIRECTED BY THE CITY FIELD ENGINEER.
- 36 THE CONTRACTOR WILL COORDINATE THE CONSTRUCTION ACTIVITIES WITH ALL OTHER CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME AREA. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE THEIR ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCE CAUSED BY UTILITY COMPANY WORK CREWS. A CONTRACT EXTENSION MAY BE ALLOWED AS DELINEATED IN CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS.
37. All CON PROBLEMS ON THE SITE
- 38 EXISTING MEDIAN CURB AND GUTTER AND STANDARD CURB AND GUTTER, NOT DISTURBED BY CONTRACTOR, BUT OUT OF ALIGNMENT, DISPLACED VERTICALLY, BADLY BROKEN AND/OR DETERIORATED, WILL BE REPLACED AS DIRECTED BY THE CITY FIELD ENGINEER AND PAID FOR AT CONTRACT UNIT PRICES.
- 39 ALL TRAFFIC CONTROL DEVICES REQUIRED FOR DRIVEWAY CLOSURES, UTILITY CONSTRUCTION OR FOR OTHER REASONS AND NOT SHOWN ON THE SIGNING PLANS WILL BE FURNISHED BY THE CONTRACTOR AND WILL BE PAID AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS AND BID PROPOSAL. PRIOR TO PLACING THE TRAFFIC CONTROL DEVICES, THE CONTRACTOR WILL NOTIFY THE AFFECTED OWNERS IN ACCORDANCE WITH THE SPECIFICATIONS. CONTRACTOR MUST MAKE PROVISIONS TO PROVIDE ACCESS TO PROPERTIES. REFER TO SECTION 19 OF THE SPECIFICATIONS.
- 40 ALL UTILITY LINES WHICH ARE NOT SPECIFICALLY DESIGNATED TO BE REMOVED AND REPLACED ON THE PLANS, WILL BE MAINTAINED IN SERVICE. SHORING, SHEETING AND OTHER MEANS OF SUPPORT SHALL BE EMPLOYED BY THE CONTRACTOR TO PREVENT DAMAGE OR LOSS OF THESE EXISTING UTILITIES AND THESE SHORING, SHEETING, AND SUPPORTS ARE CONSIDERED INCIDENTAL TO THIS PROJECT. BEAM AND CABLE OR OTHER ADEQUATE SUPPORTS WILL BE USED FOR TEMPORARY SUPPORT OF ALL UTILITY LINES WHICH CROSS THE TRENCH. ANY DAMAGE TO EXISTING UTILITIES WILL PROMPTLY BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR WILL NOTIFY THE ENGINEER IMMEDIATELY OF ANY SIGNIFICANT DEVIATION OF EXPOSED UTILITIES FROM THE LOCATIONS SHOWN ON THE PLANS SO THAT CONFLICTS CAN BE RESOLVED IN A TIMELY MANNER.
- 41 THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING COA INFRASTRUCTURE (C & G, PAVING, ETC.) DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND WILL REPAIR OR REPLACE SAME AT HIS OWN EXPENSE. HE WILL SUITABLY PROTECT THE CURB AND GUTTER FROM INCIDENTAL SPLASHING DURING THE TACK COAT APPLICATION AND WILL BE RESPONSIBLE FOR CLEANING SAME AT HIS OWN COST SHOULD SPLASHING OCCUR.
- 42 ALL INTERFERING PORTIONS OF ABANDONED UTILITY LINES WHICH ARE EXPOSED AS A RESULT OF CONSTRUCTION WILL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- 43 STATIONS OF STORM DRAIN INLETS ARE TO THE CENTER OF GRATE. ALL STORM DRAIN INLETS WILL BE TYPE "A" UNLESS OTHERWISE NOTED ON THE PLANS.
- 44 SHORING COSTS WILL BE CONSIDERED INCIDENTAL TO THE TRENCH AND BACKFILL COSTS.
- 45 THE CONTRACTOR WILL BE RESPONSIBLE FOR SECURING NPDES PERMITS REQUIRED BY APPLICABLE CITY, STATE, AND FEDERAL REGULATIONS.
- 46 ALL STORM DRAIN AND CONNECTOR PIPE WILL BE CLASS IV REINFORCED CONCRETE PIPE UNLESS OTHERWISE NOTED ON THE PLANS.
- 47 THE TERM REMOVE USED IN THIS PLAN SET INCLUDES THE DISPOSAL OF SAID MATERIAL IN ACCORDANCE WITH CITY OF ALBUQUERQUE SPECIFICATIONS, LATEST EDITION.
- 48 CONTRACTOR WILL SURVEY AND LOG EXISTING ELEVATIONS OF CURB-AND-GUTTER, SIDEWALK, AND PAVEMENT WHICH WILL BE REMOVED FOR CONSTRUCTION OF IMPROVEMENTS. CONTRACTOR WILL REPLACE REMOVED CURB-AND-GUTTER, SIDEWALK, DRIVEPADS, AND PAVEMENT TO ELEVATIONS PRIOR TO REMOVAL UNLESS OTHERWISE INDICATED ON THE PLANS.
- 49 CONTRACTOR WILL CONSTRUCT TEMPORARY ASPHALT PAVEMENT AS DIRECTED BY THE COA ENGINEER TO PROVIDE ACCESS TO LOCAL BUSINESS, ETC. TEMPORARY PAVEMENT SHALL BE REMOVED AND DISPOSED OF PRIOR TO PLACEMENT OF FULL WIDTH PAVEMENT SECTION. TEMPORARY PAVING SHALL BE PER COA STD. DWG. 2415 AND PAID FOR PER COA STD. SPECIFICATIONS.
- 50 ALL CLASSES OF SEEDING SHALL BE DRY LAND MIX PLACED AT 1.5 LBS/1000 S.F. WITH FERTILIZER 21-12-12 PLACED AT 5 LBS/1000 S.F.
- 51 ALL ASPHALTIC CONCRETE SHALL BE MINIMUM 1800 LB. STABILITY AND COMPACTED TO 95% MODIFIED MARSHALL DENSITY UNLESS OTHERWISE NOTED ON THE PLANS.
- 52 ANY WORK OCCURRING WITHIN AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR (24) HOUR CONSTRUCTION.
- 53 CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

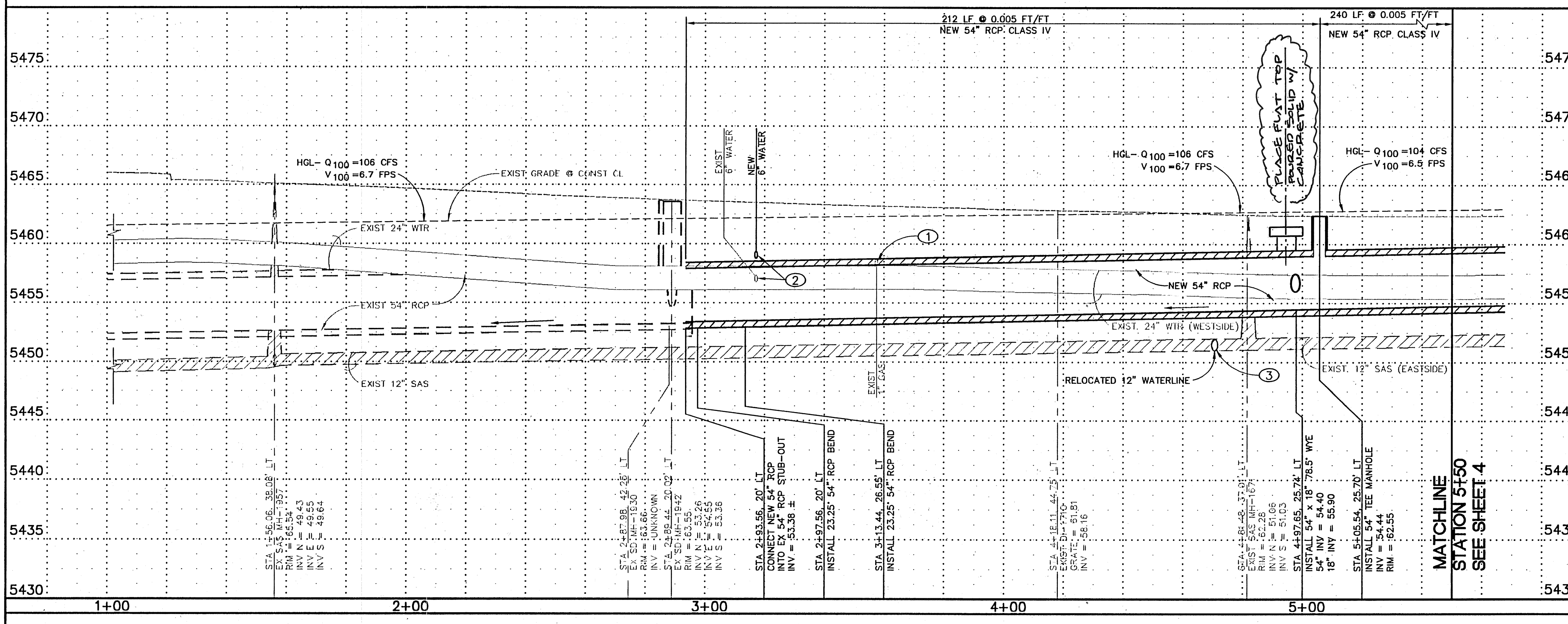
	EXISTING CHAIN LINK FENCE		EXISTING FIRE HYDRANT
	EXISTING WOOD FENCE		EXISTING FIBER-OPTIC MANHOLE
	EXISTING OVERHEAD ELECTRIC		EXISTING CATCH BASIN
	EXISTING SAS MANHOLE		NEW CATCH BASIN
	NEW TEE MANHOLE		EXISTING MANHOLE (PROFILE)
	POT HOLING		NEW MANHOLE (PROFILE)
	NEW STORM DRAIN		CONSTRUCTION CENTERLINE
	EXISTING STORM DRAIN		EXISTING UNDERGROUND TELEPHONE LINE
	NEW STORM DRAIN MANHOLE		EXISTING GASLINE
	EXISTING STORM DRAIN MANHOLE		EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING CONCRETE SIDEWALKS AND CURB LINES		EXISTING UNDERGROUND TELEVISION CABLE LINE
	NEW CONCRETE SIDEWALKS AND CURB LINES		EXISTING SANITARY SEWER
	HORIZONTAL AND VERTICAL CONTROL POINT		EXISTING WATERLINE
	NEW STORM DRAIN BEND		EXISTING WATER METER
	NEW STORM DRAIN WYE		RIGHT OF WAY
	NEW SPOT ELEVATION		PUBLIC UTILITY EASEMENT
	NEW INDEX CONTOUR LINE		WATERLINE & SAS EASEMENT
	NEW CONTOUR LINE		EXISTING PAVEMENT
	EXISTING INDEX CONTOUR LINE		NEW PAVEMENT
	EXISTING CONTOUR LINE		NEW CONCRETE
	EXISTING WATER VALVE		EXIST. LIGHT POLE/POWER POLE
	CITY OF ALBUQUERQUE		
	TOP OF CURB		
	FLOWLINE		
	TOP OF PIPE		
	EXISTING SPOT ELEVATION		

- 54 THE WATER SYSTEMS DIVISION (857-8200) WILL BE NOTIFIED BY THE CONTRACTOR FIVE (5) WORKING DAYS IN ADVANCE OF ANY WATER SHUT OFF WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. ALL EXISTING VALVES MAY ONLY BE OPERATED BY COA WATER DIVISION PERSONNEL. REFER TO SECTION 18 OF SPECIFICATIONS.
- 55 PNM REQUESTS A MIN. OF 72 HOURS NOTICE PRIOR TO SUPPORT WORK BEING REQUIRED.
- 56 CONTACT PNM REPRESENTATIVE MIKE DAVIS AT 241-3307 A MIN. OF ONE (1) WEEK PRIOR TO OUTAGES & CABLE SUPPORT REQUIREMENTS.

[illegible]



NO.	BURY TO TOP OF PIPE	ELEV. TO TOP OF PIPE	DESCRIPTION		
			UTILITY	MATERIAL	DIAMETER
1	5'-3"	58.4 ±	WATER	CONCRETE	24"
2	3'-9"	58.6 ±	GAS	STEEL	6"
2	3'-9"	58.6 ±	GAS	STEEL	1"
4	4'-5"	57.0 ±	WATER	CAST IRON	10"
4	4'-8"	56.7 ±	WATER	CAST IRON	6"
13	2'-10"	58.9 ±	FIBER OPTICS	PVC	6x4"

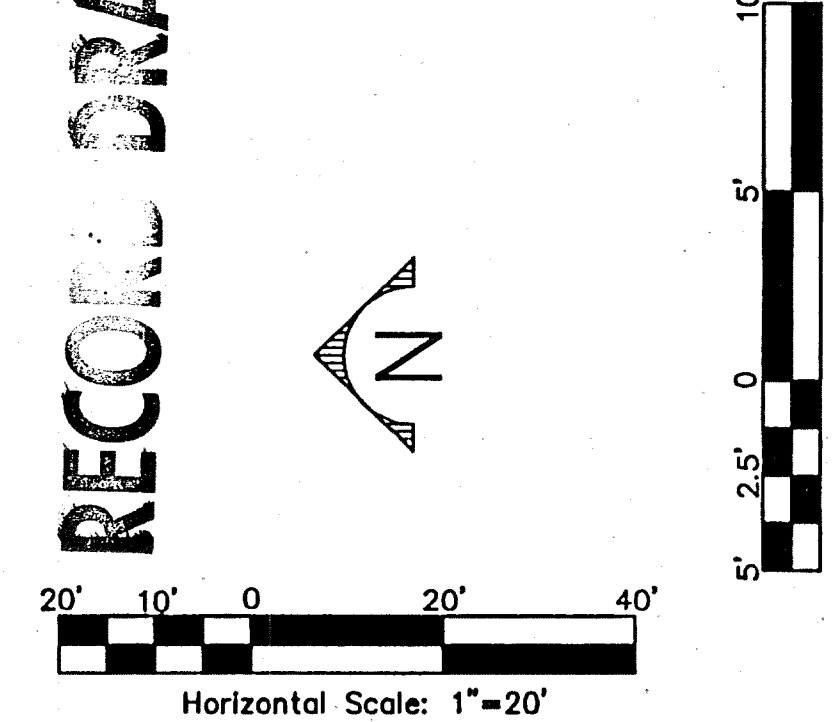
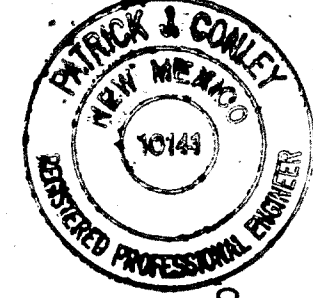


KEYED NOTES:

- COORDINATE WITH GAS CO. OF NEW MEXICO TO RAISE 1" GASLINE TO ACCOMMODATE NEW STORM DRAIN.
- REMOVE & REPLACE APPROX. 20 LF OF 6" PVC WATERLINE. SEE DETAIL "B" SHT. 7.
- REMOVE & REPLACE APPROX. 20 LF OF 12" WATERLINE. SEE DETAIL "A" SHT. 7.
- INSTALL ORIFICE PLATE IN EXISTING SD MH-1930 TO RESTRICT FLOW FROM 36" RCP EAST TO 3 CFS. SEE DETAIL ON SHT. 6.
- 12' PAVEMENT LIMITS FOR ASPHALT REMOVAL & REPLACEMENT UNLESS OTHERWISE NOTED OR APPROVED BY CITY FIELD ENGINEER. MATCH EXISTING GRADES, EXCEPT AS OTHERWISE SHOWN. SAWCUT ASPHALT PRIOR TO PLACING NEW ROAD SECTION. SEE DETAIL 2 ON SHEET 6.
- CONSTRUCT ASPHALT WATERBLOCK. SEE SECTION 1 SHEET 7.
- SEE PROFILE OF 18" STORM DRAIN ON SHEET 7.
- CONSTRUCT ASPHALT WATERBLOCK. SEE SECTION 2 SHEET 7.
- CONSTRUCT STANDARD CURB & GUTTER
- INSTALL ASPHALT PAVING PER SECTION 2 ON SHEET 6.
- CONSTRUCT NEW STANDARD CURB & GUTTER PER CITY OF ALBUQUERQUE STD. DWG. 2415. MATCH EXISTING INVERT AT STA. 4+49.09.
- REMOVE AND DISPOSE OF EXISTING AC PAVEMENT. REPAVE TO NEW GRADES SHOWN. NEW SECTION PER DETAIL 2 ON SHEET 6.
- OVERALL FLOW DIRECTION.
- REMOVE & DISPOSE OF 24 LF OF CONC. CURB

NOTE: RE-ROUTE OF EXISTING 6" AND 12" WATER LINES SHALL BE BETWEEN 12:00 MIDNIGHT AND 6:00 AM. CONTRACTOR SHALL COORDINATE SHUT-OFFS WITH THE CITY OF ALBUQUERQUE AND AFFECTED BUSINESSES.

RECORD DRAWINGS

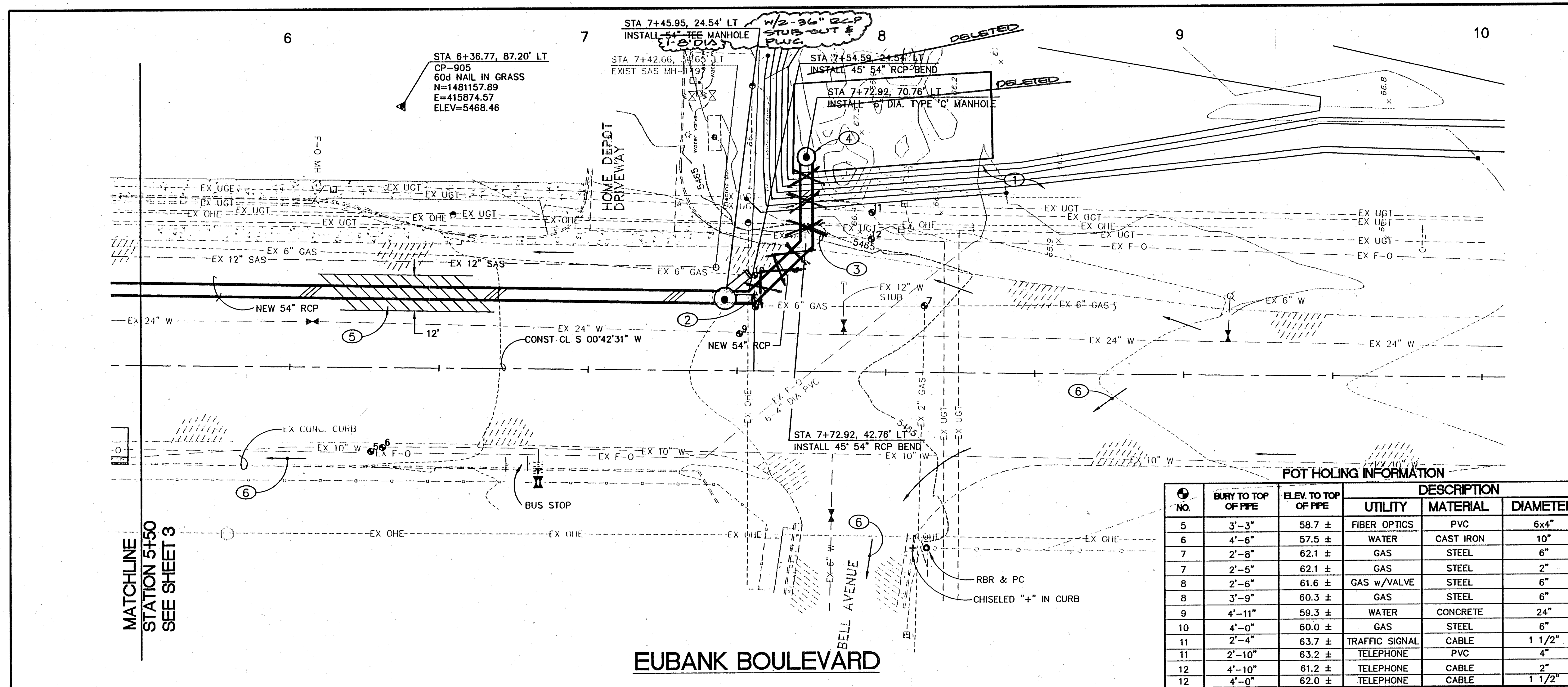


Job #: 195106 SE7
Smith Engineering Company
 A Full Service Engineering Company
 5000 Oregon Boulevard, S.E. Suite 2000 Albuquerque, New Mexico 87106

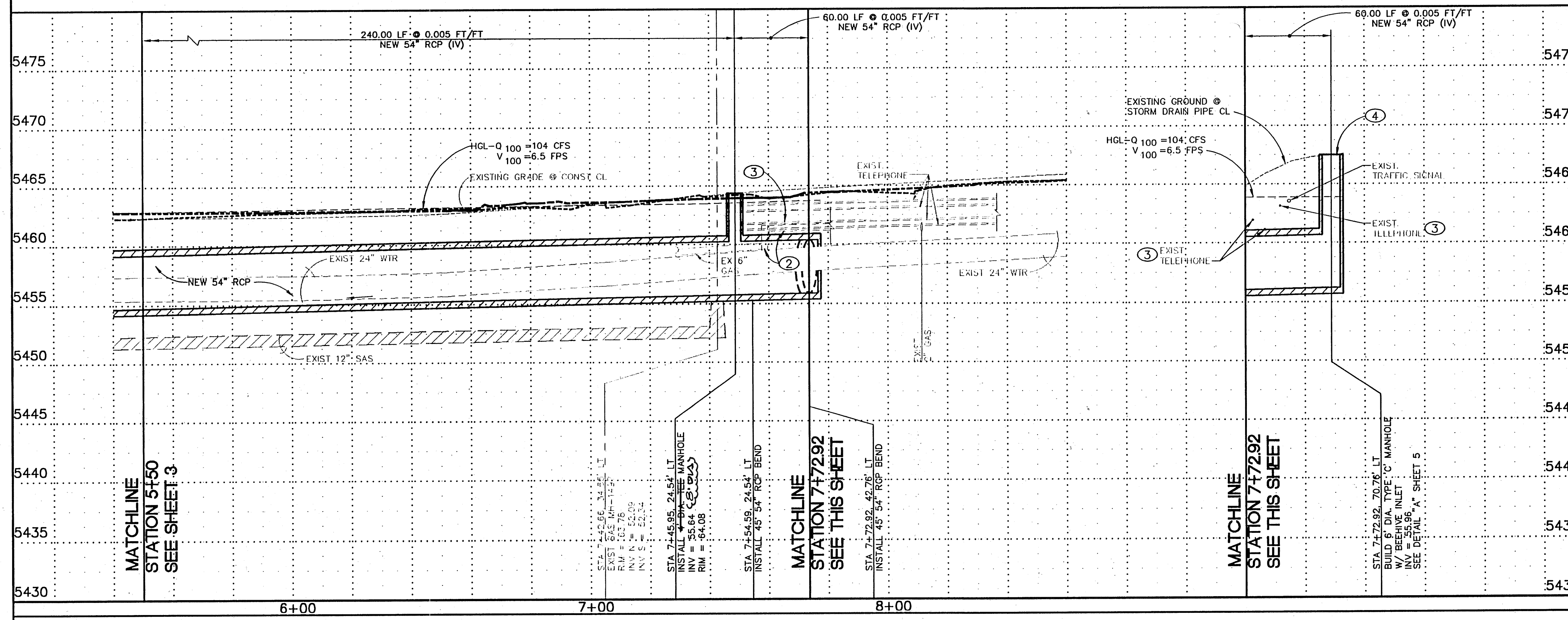
CITY OF ALBUQUERQUE
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DEVELOPMENT GROUP

TITLE: EUBANK STORM DRAIN: COCHITI ROAD TO BELL AVENUE
 UTILITY P & P: EUBANK BLVD: STA 1+00 TO 5+50

Design Review Complete	City Engineer Approval	City Engineer Update



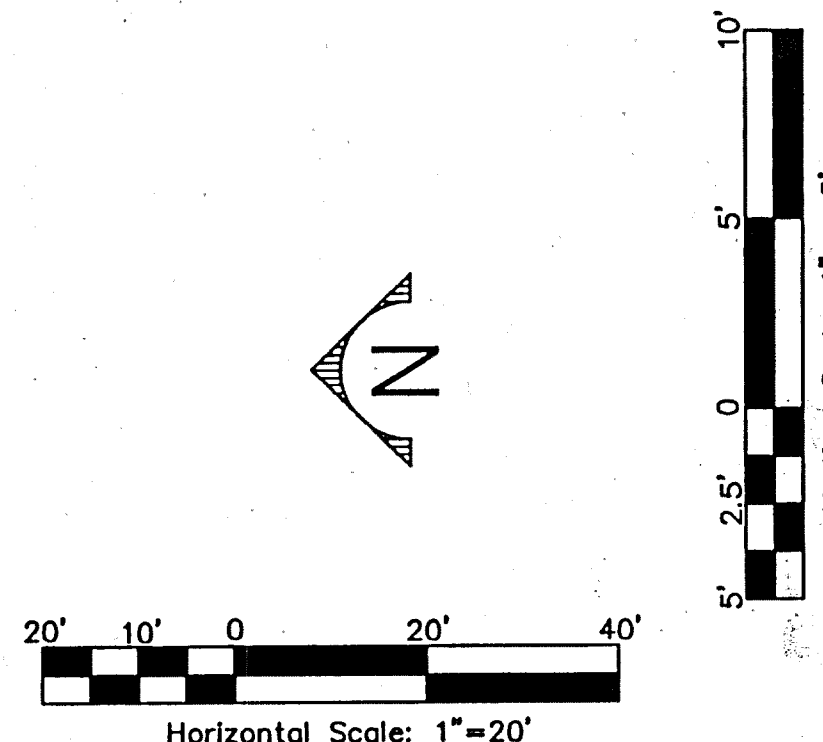
NO.	BURY TO TOP OF PIPE	ELEV. TO TOP OF PIPE	DESCRIPTION		
			UTILITY	MATERIAL	DIAMETER
5	3'-3"	58.7 ±	FIBER OPTICS	PVC	6x4"
6	4'-6"	57.5 ±	WATER	CAST IRON	10"
7	2'-8"	62.1 ±	GAS	STEEL	6"
7	2'-5"	62.1 ±	GAS	STEEL	2"
8	2'-6"	61.6 ±	GAS w/VALVE	STEEL	6"
8	3'-9"	60.3 ±	GAS	STEEL	6"
9	4'-11"	59.3 ±	WATER	CONCRETE	24"
10	4'-0"	60.0 ±	GAS	STEEL	6"
11	2'-4"	63.7 ±	TRAFFIC SIGNAL	CABLE	1 1/2"
11	2'-10"	63.2 ±	TELEPHONE	PVC	4"
12	4'-10"	61.2 ±	TELEPHONE	CABLE	2"
12	4'-0"	62.0 ±	TELEPHONE	CABLE	1 1/2"



KEYED NOTES:

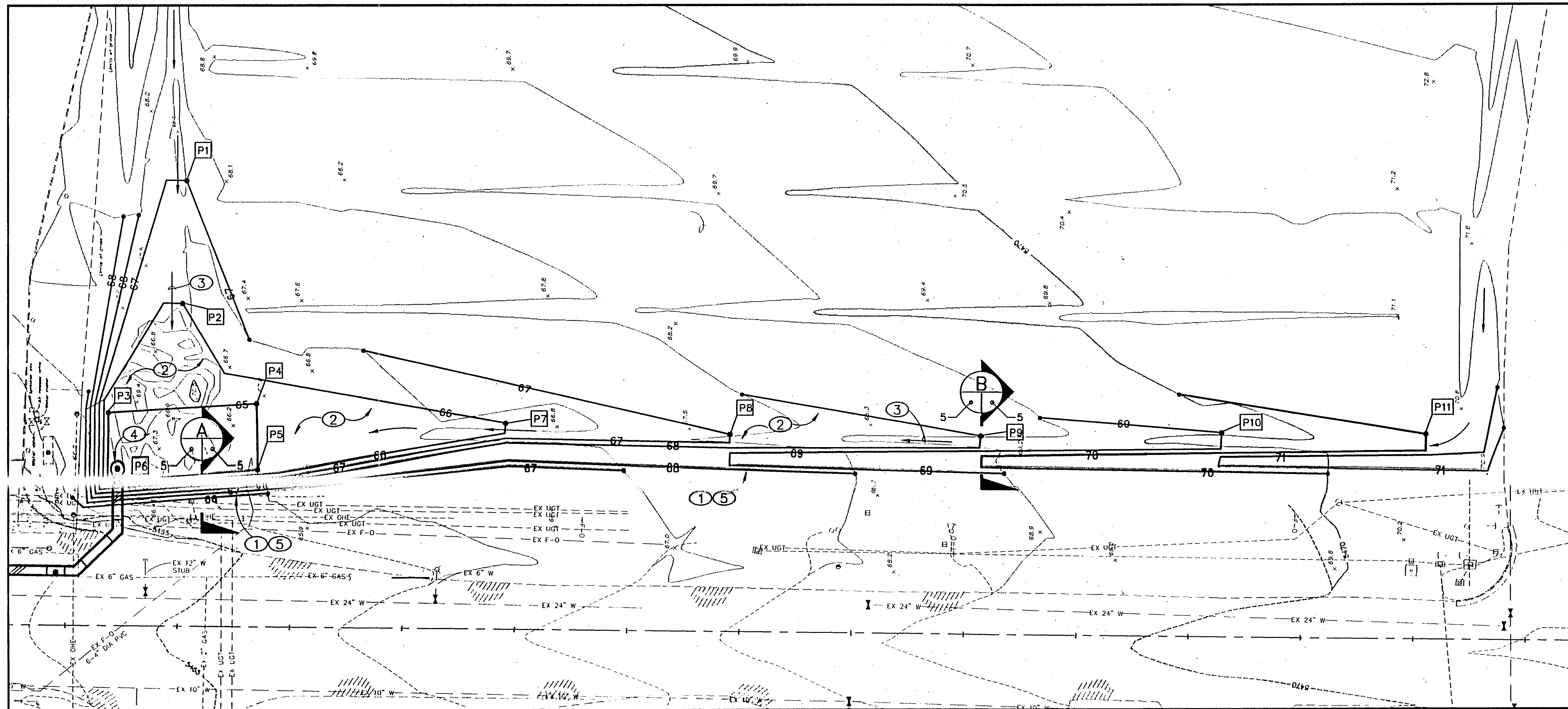
- GRADE TO DRAIN TO THE 6" DIA MANHOLE INLET STRUCTURE, SEE GRADING DETAIL SHT. 5
- COORDINATE WITH GAS CO. OF NEW MEXICO TO RELOCATE 6" GASLINE TO ACCOMMODATE NEW STORM DRAIN
- COORDINATE WITH USWEST TO RELOCATE EXISTING UNDERGROUND TELEPHONE LINE (IF REQUIRED).
- BUILD INLET STRUCTURE AT MANHOLE. SEE DETAIL "A" ON SHEET 6.
- 12" PAVEMENT LIMITS FOR ASPHALT REMOVAL & REPLACEMENT UNLESS OTHERWISE NOTED OR APPROVED BY CITY FIELD ENGINEER. MATCH EXISTING GRADES, EXCEPT AS OTHERWISE SHOWN. SAWCUT ASPHALT PRIOR TO PLACING NEW ROAD SECTION. SEE DETAIL 2/6.
- DIRECTION OF OVERLAND FLOW.

RECORD DRAWINGS



Job #: 195106 SE7
Smith Engineering Company
 A Full Service Engineering Company
 4000 Olympic Boulevard, N.E. Suite 200 Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: EUBANK STORM DRAIN: COCHITI ROAD TO BELL AVENUE UTILITY P & P: EUBANK BLVD: STA 5+50 TO 9+50	
Design Review Committee	City Engineer Approval
APPROVED	APPROVED
REVIEW COMMITTEE	CITY ENGINEER
City Project No. 4790.93	Zone Map No. L-21
Sheet 4	of 13



KEYED NOTES:

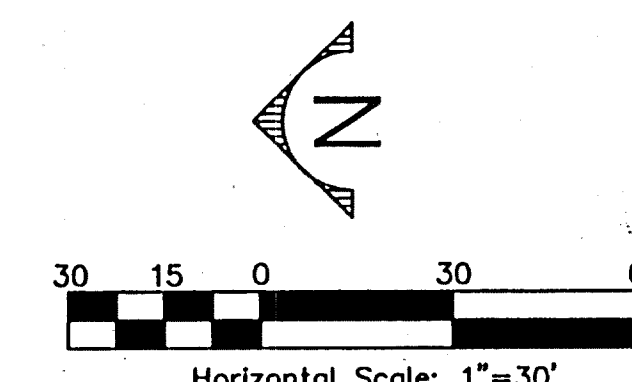
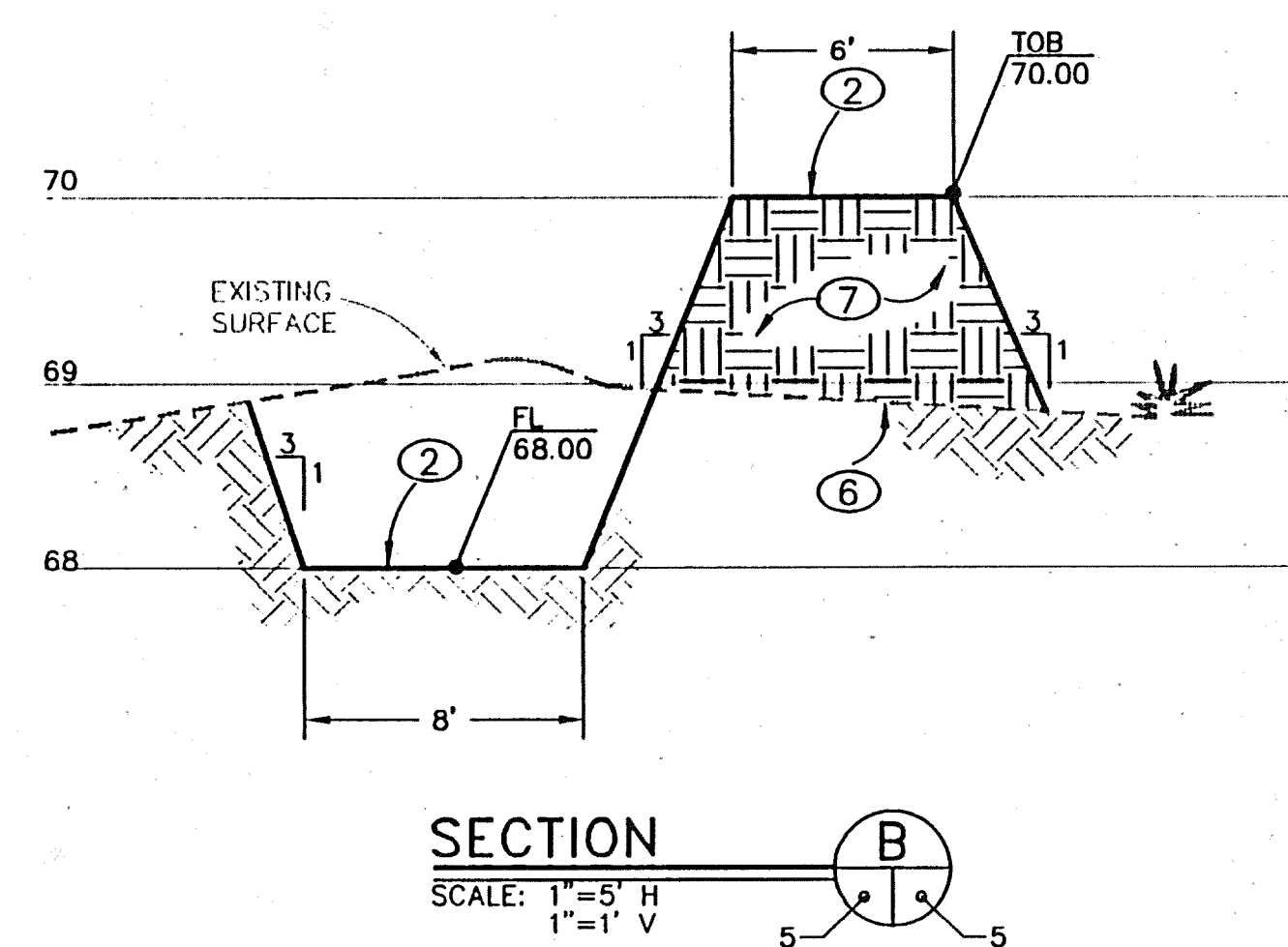
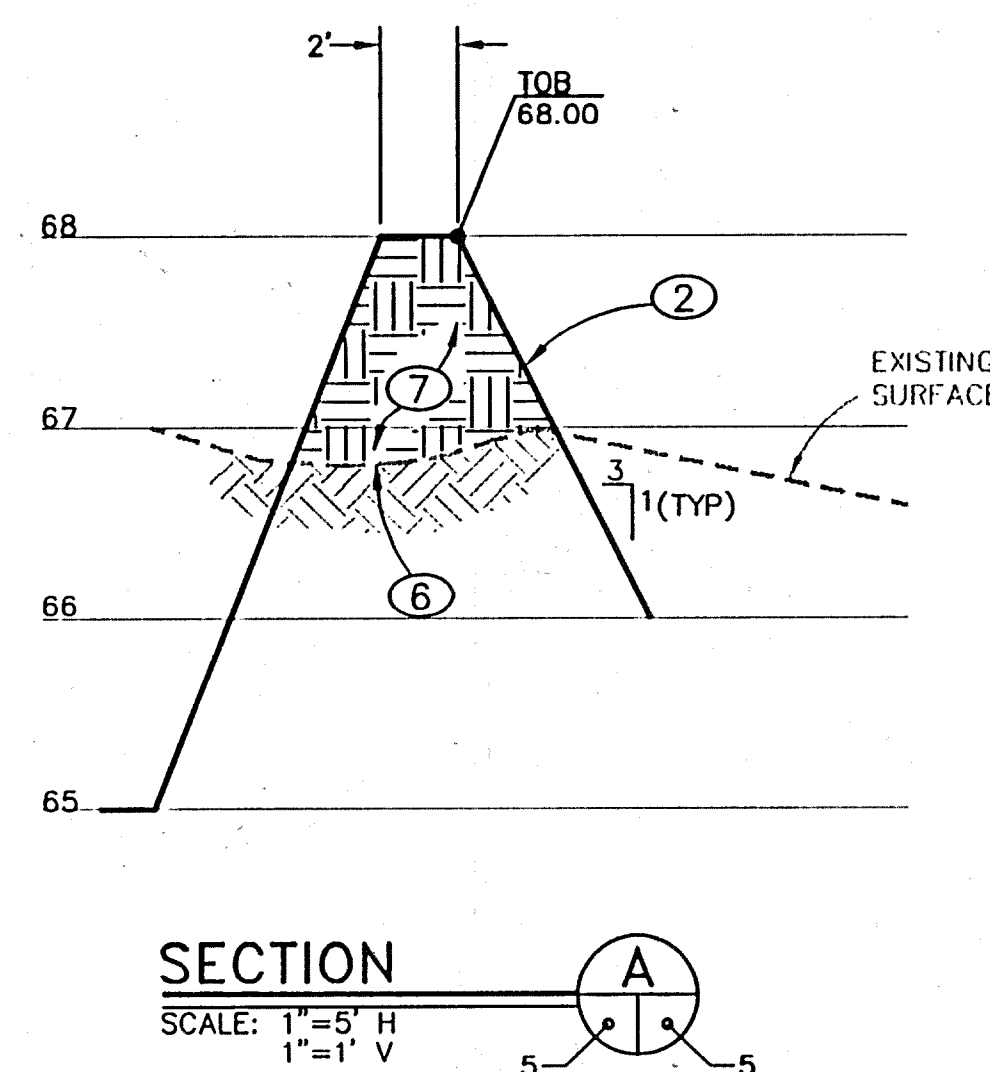
- 1 CONSTRUCT DRAINAGE SWALE & BERM.
- 2 RE-SEED DISTURBED AREAS AFTER CONSTRUCTION OF SWALE & BERM.
- 3 FLOW DIRECTION ARROWS.
- 4 SEE SHEET 4/12 FOR CONSTRUCTION OF INLET AND STORM DRAIN.
- 5 ALL SIDE SLOPES SHALL BE 3H:1V.
- 6 12" SUBGRADE PREP UNDER FILL COMPACTED TO 95% ASTM D-1557.
- 7 FILL COMPACTED TO 95% ASTM D-1557.

DELETED FROM THIS PROJECT

COORDINATE POINT DATA

NUMBER	NORTHING	EASTING
P1	1480991.32	415985.24
P2	1480993.15	415930.40
P3	1481026.24	415881.61
P4	1480960.23	415885.49
P5	1480959.77	415856.82
P6	1481026.66	415851.79
P7	1480849.50	415876.37
P8	1480749.69	415871.35
P9	1480637.96	415870.42
P10	1480530.75	415871.65
P11	1480439.86	415870.95
P12	1480414.04	415862.60
P13	1480407.97	415891.72
P14	1480405.13	415873.51
P15	1480412.35	415855.23
P16	1480483.39	415854.19
P17	1480532.18	415857.41
P18	1480439.96	415863.52
P19	1480531.14	415864.31
P20	1480627.61	415854.64
P21	1480637.69	415857.41
P22	1480637.63	415861.55
P23	1480638.54	415865.06
P24	1480693.82	415854.60
P25	1480749.83	415858.15

NUMBER	NORTHING	EASTING
P26	1480749.76	415862.88
P27	1480749.77	415867.46
P28	1480796.90	415856.08
P29	1480848.25	415858.08
P30	1480848.36	415860.08
P31	1480849.42	415867.56
P32	1480849.91	415871.92
P33	1480949.80	415847.54
P34	1480950.14	415855.38
P35	1480955.21	415845.13
P36	1481038.92	415838.78
P37	1481042.15	415843.31
P38	1480993.15	415930.40
P39	1481036.22	415883.12
P40	1481028.15	415887.44
P41	1481035.02	415891.20
P42	1481019.52	415969.56
P43	1481012.67	415970.14
P44	1481000.44	415985.38
P45	1481001.66	415930.52
P46	1480974.52	415899.06
P47	1480963.38	415914.29
P48	1480912.66	415909.25
P49	1480744.21	415889.14
P50	1480611.59	415878.44
P51	1480549.60	415888.84



Job #: 195106 SE7
Smith Engineering Company
A Full Service Engineering Company
1000 Olympic Boulevard, N.E. Suite 1000, Albuquerque, New Mexico 87112

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP
TITLE: EUBANK STORM DRAIN: COCHITI ROAD TO BELL AVENUE
GRADING PLAN

DESIGNED BY: JCS
DRAWN BY: JCS
CHECKED BY: PJC

CITY ENGINEER
APPROVED
REVIEWED

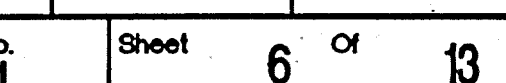
City Project No. 4790.93

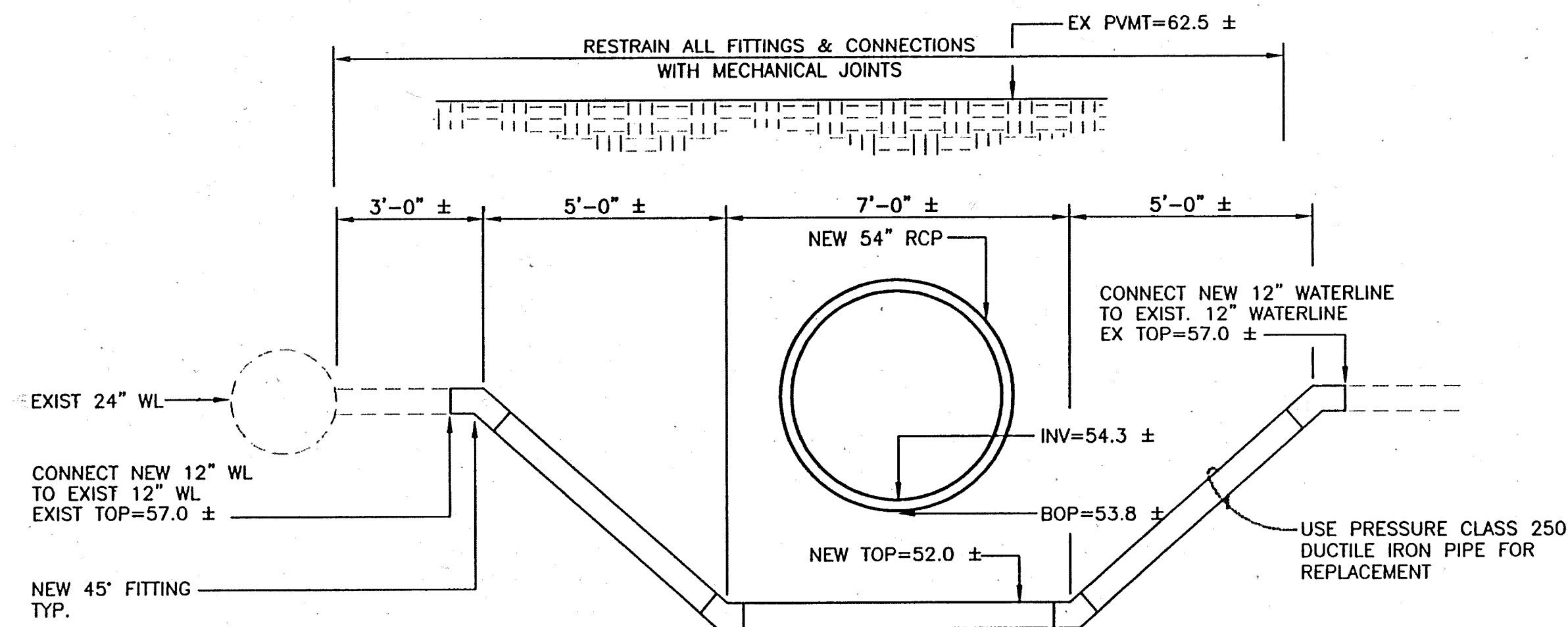
Zone Map No. L-21

Sheet 5 of 12

RECORD DRAWINGS

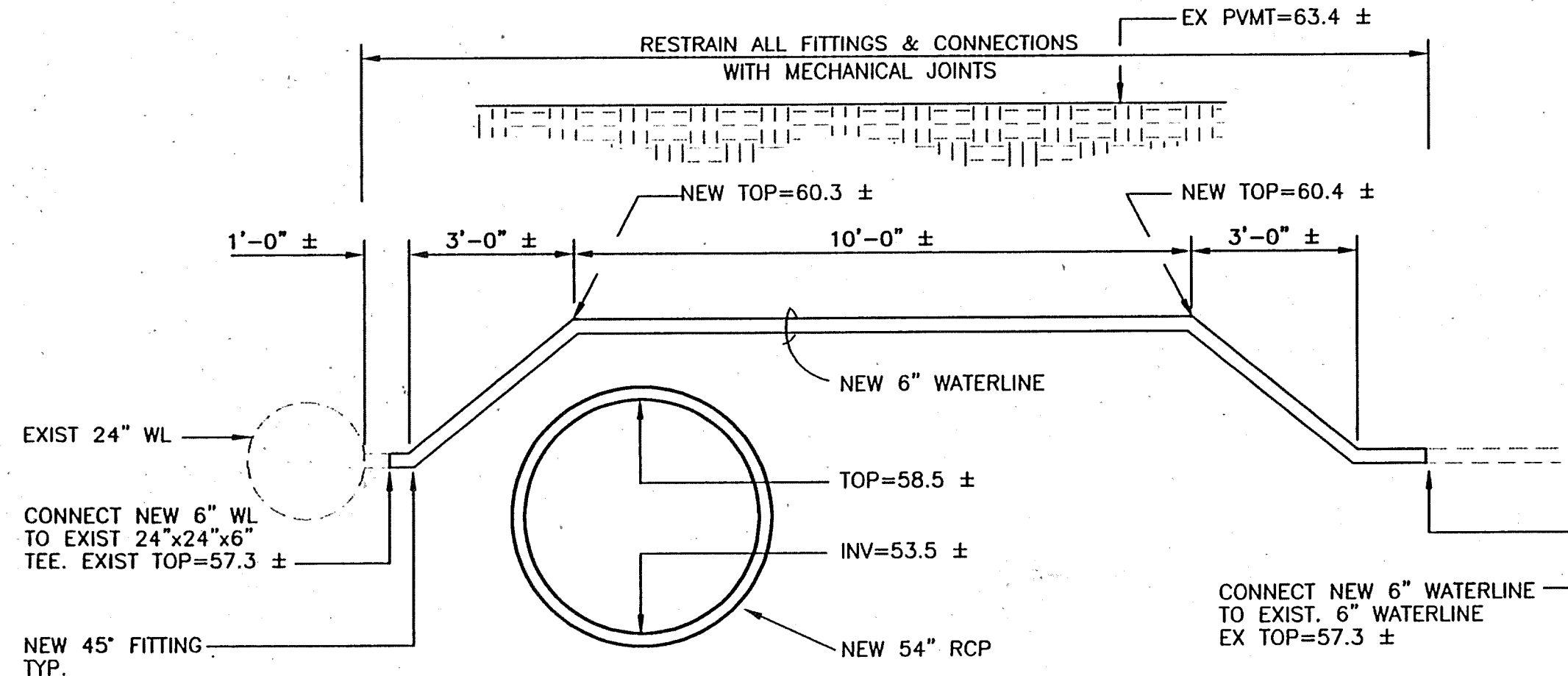
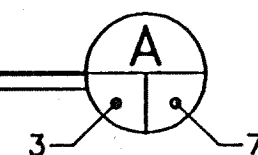
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEERS SEAL	
CONTRACTOR	DATE	C.O.A. BENCHMARK	DATE	NO.	BY	SEAL	DATE
RM-1	04/98	AT THE INTERSECTION OF CENTRAL AND ELIZABETH	04/98	11599	STEPHEN JAMES		DATE
INSPECTOR'S ACCEPTANCE BY	DATE	ON THE MEDIAN.	DATE	TOLER FROM	DATE		
VERIFICATION BY	DATE	ELEVATION = 5500.669'	DATE	SURVEYING CONTROL	DATE		
DRAWINGS BY	DATE	GROUND COORDINATES: NORTHING = 1,481,746.33 EASTING = 418,123.51	DATE	INC.	DATE		
MICRO-FILM INFORMATION		GRID COORDINATES: NORTHING = 1,481,220.09 EASTING = 417,975.01		GROUND TO GRID FACTOR: 0.99964485			





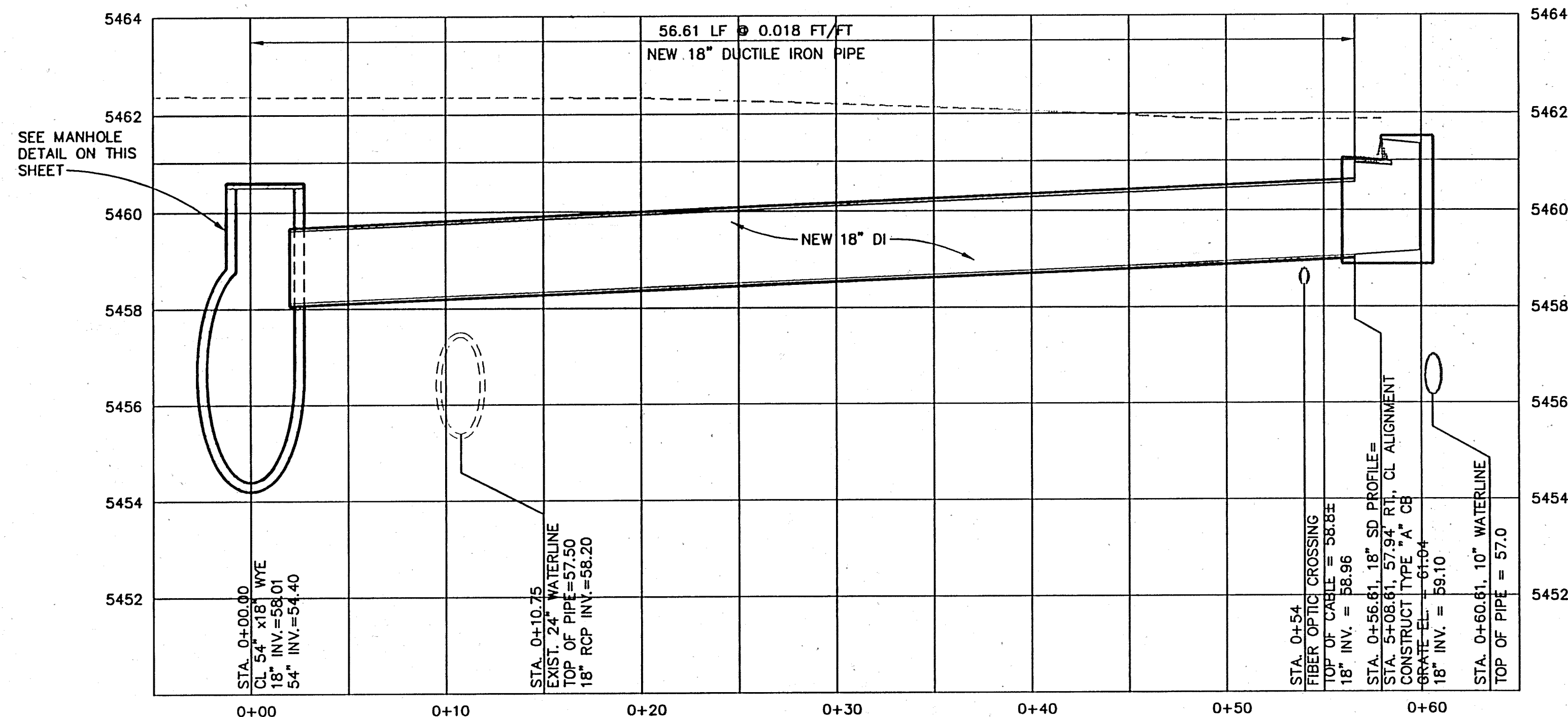
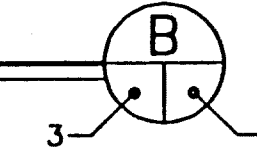
12" PVC WATERLINE REPLACEMENT

SCALE: NTS



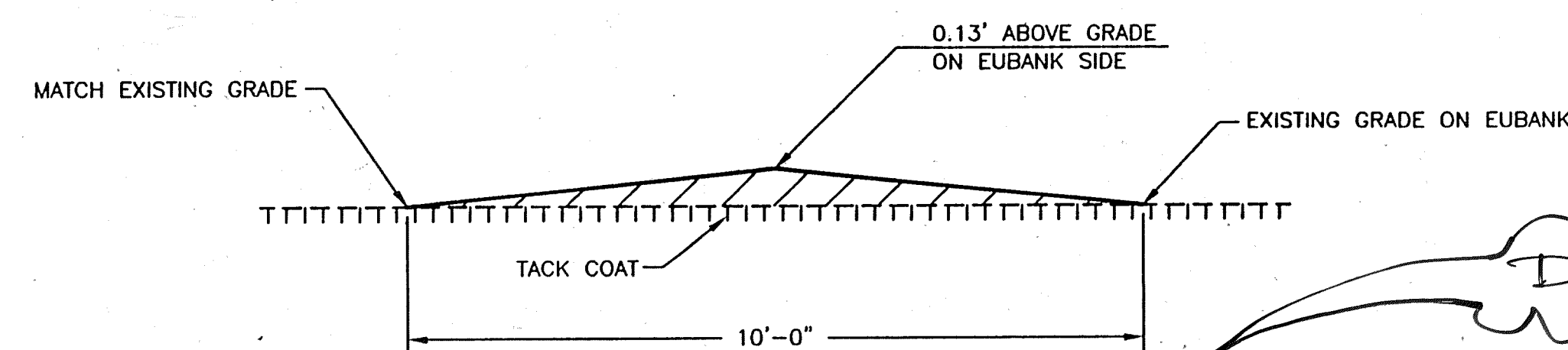
6" PVC WATERLINE REPLACEMENT

SCALE: NTS



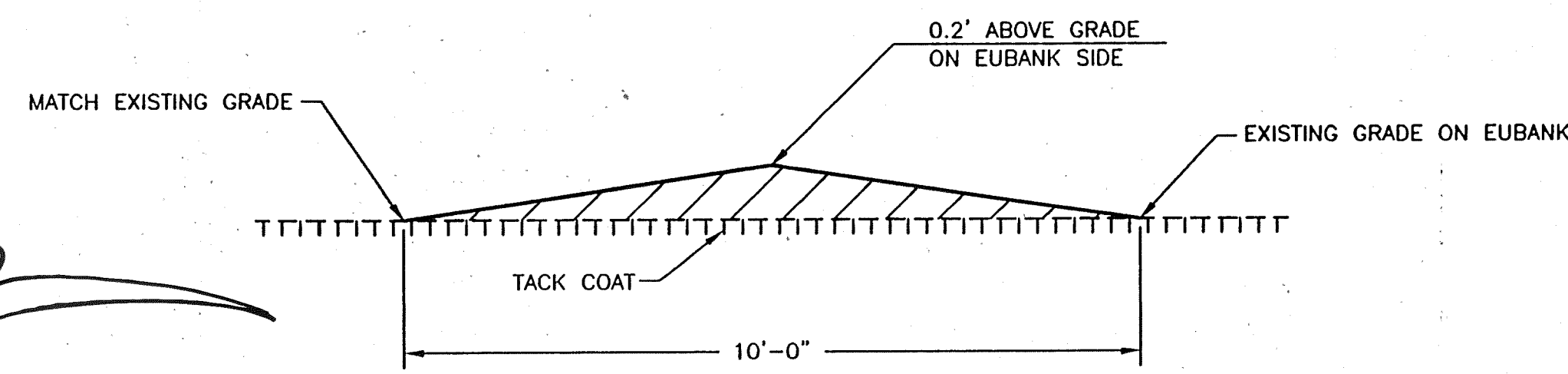
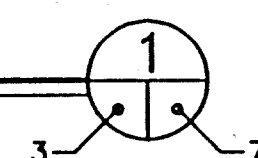
18" STORM DRAIN CONNECTOR PIPE PROFILE

SCALE: 1"=5' HORIZ.
SCALE: 1"=2' VERT.



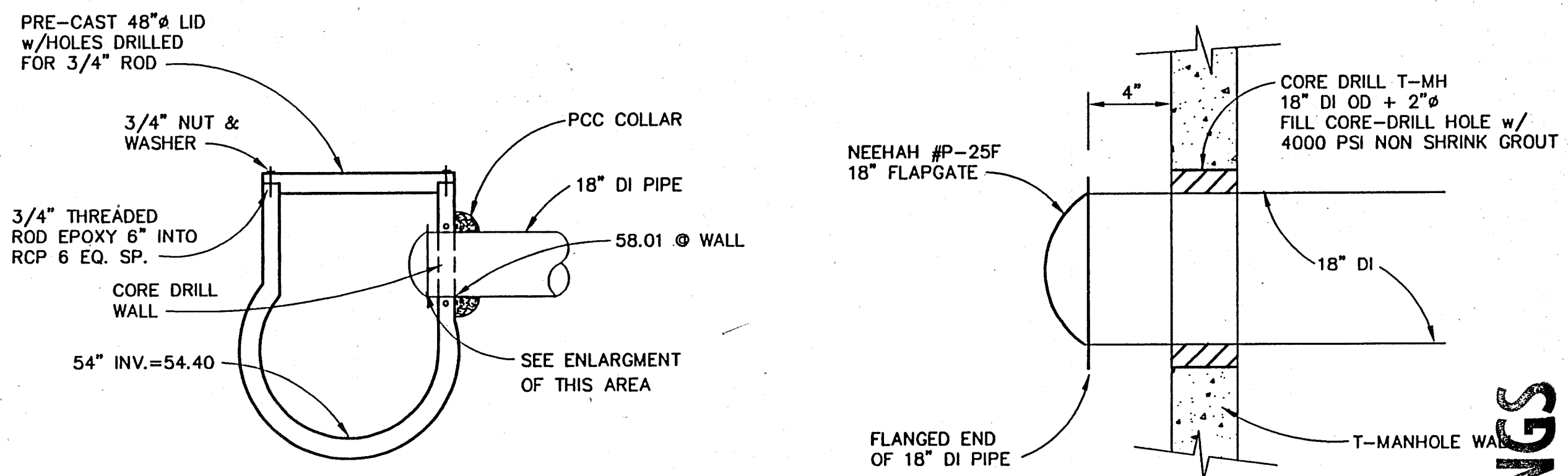
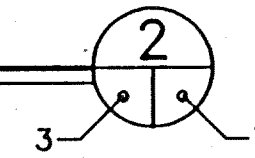
ASPHALT WATERBLOCK

NOT TO SCALE



ASPHALT WATERBLOCK

NOT TO SCALE



48" T-MH WITH FLAPGATE CONNECTION

SCALE: NTS

RECORD DRAWINGS

Job #: 195106 SE7
Smith Engineering Company
A Full Service Engineering Company
4400 Olympic Boulevard, S.E. Suite 2000 Albuquerque, New Mexico 87112

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

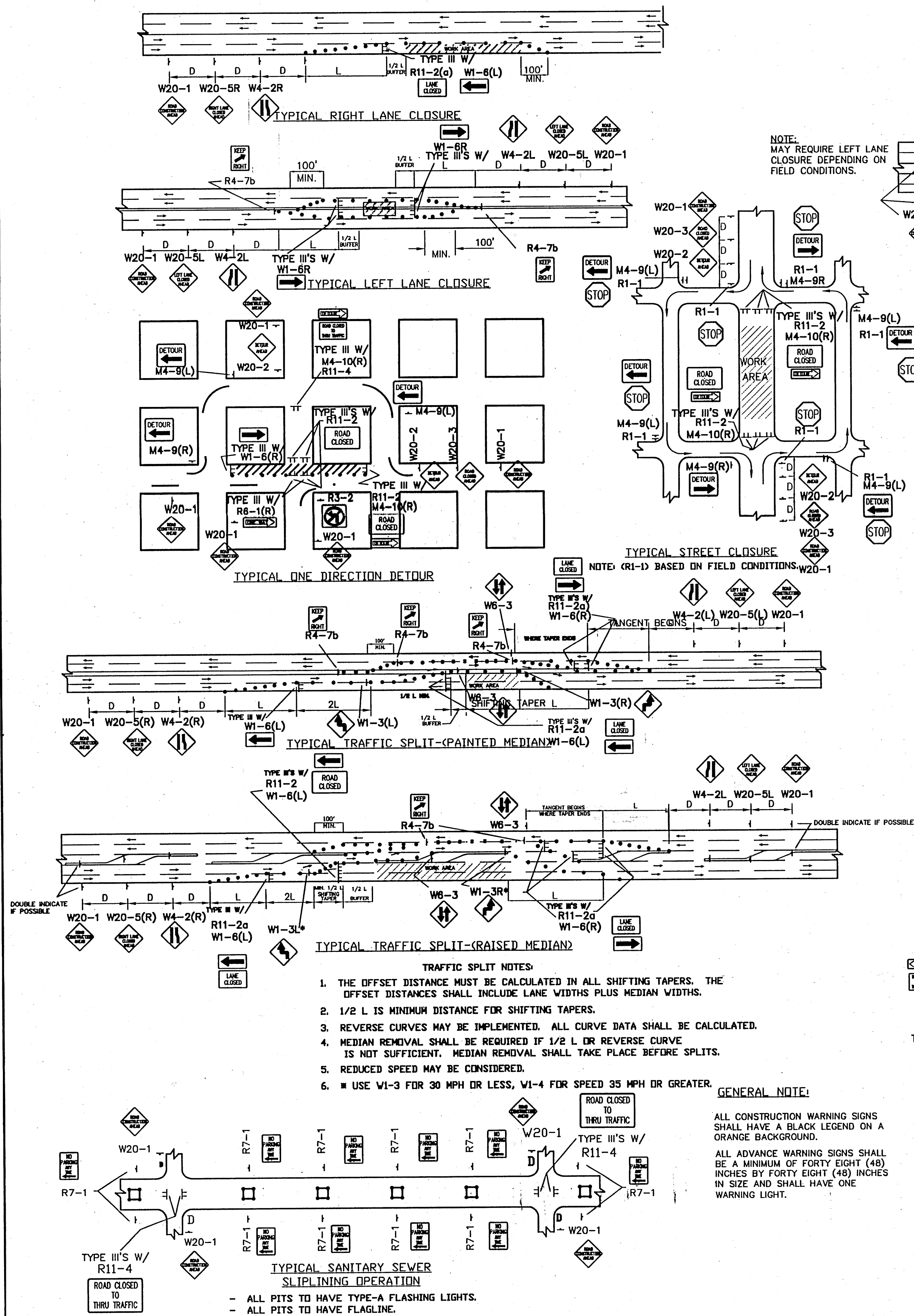
TITLE: EUBANK STORM DRAIN : COCHITI ROAD TO BELL AVENUE

DETAIL SHEET

Design Review Committee	City Engineer Approval	City Engineer
APPROVED	APPROVED	APPROVED

City Project No. 4790.93 Zone Map No. L-21 Sheet 7 of 13

SURVEY INFORMATION			BENCH MARKS			AS BUILT INFORMATION		
NO.	BY	DATE	C.O.A. BENCHMARK	INSTRUMENT	CONTRACTOR	NO.	DATE	NO.
11599	STEPHEN JAMES	04/96	AT THE INTERSECTION OF CENTRAL AND ELIZABETH ON THE MEDIAN.	COA	COA	1	04/96	1
	TOLER, FROM		ELEVATION = 5500.669'	COA	COA	2	04/96	2
	SURVEYING CONTROL INC.		GROUND COORDINATES : NORTHING = 1,481,746.33 EASTING = 418,123.51	COA	COA	3	04/96	3
			GRID COORDINATES : NORTHING = 1,481,220.09 EASTING = 417,975.01	COA	COA	4	04/96	4
			GROUND TO GRID FACTOR: 0.99984485	COA	COA	5	04/96	5

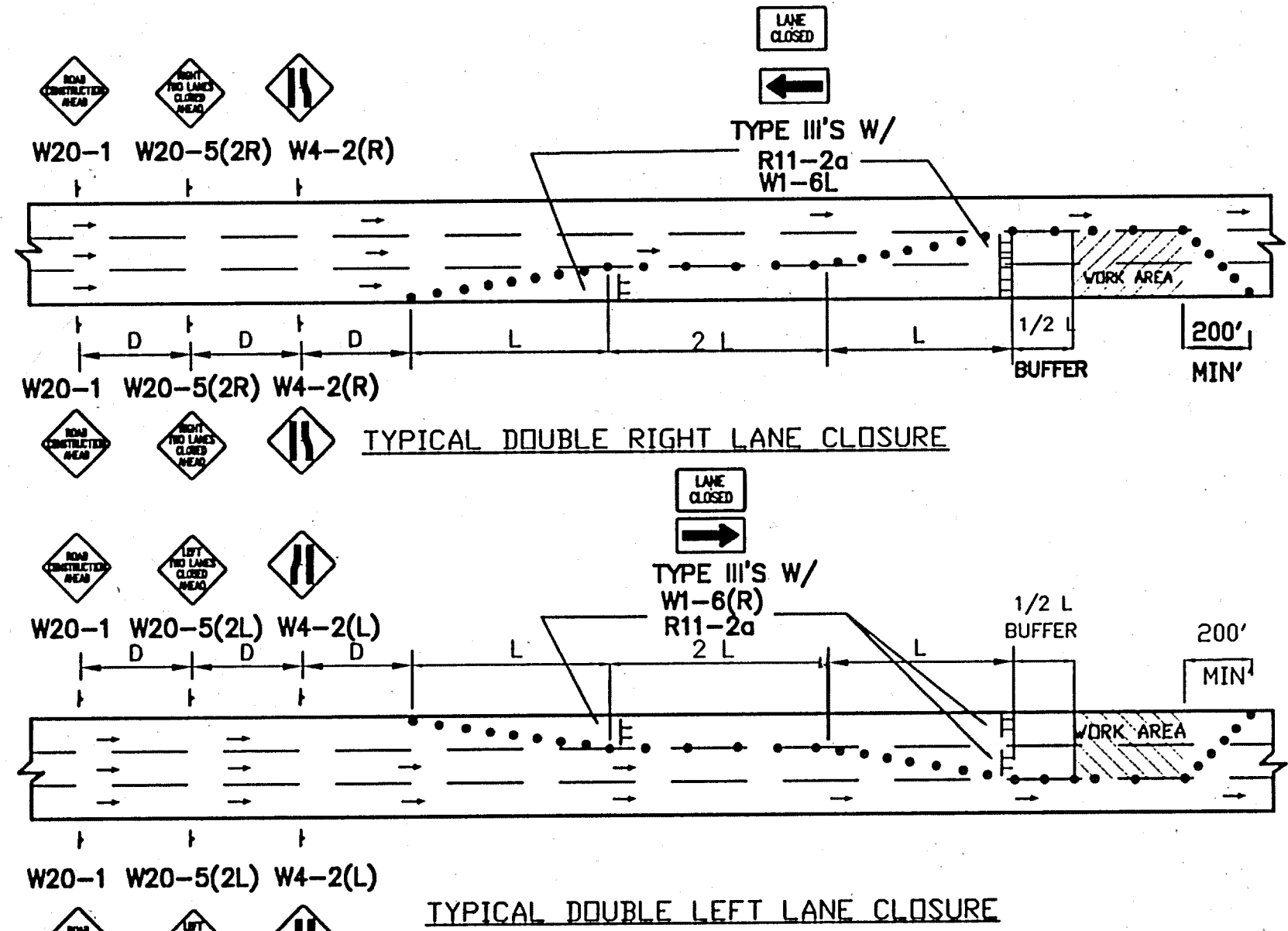


NOTE: MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.

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

Job #: 195106 SE7
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: EUBANK STORM DRAIN : COCHITI ROAD TO BELL AVENUE
TYPICAL TRAFFIC CONTROL AND SIGNING EXAMPLES

Design Review/Comments	City Engineer Approval	No. / Day / Yr.	No. / Day / Yr.
REVISIONS	CITY ENGINEER		
DESIGN			
DATE 8/98	DATE 8/98		
DRAWN BY JCS	CHECKED BY DLA		

City Project No. 4790.93 Zone Map No. L-21 Sheet 8 of 13

AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEERS SEAL			
CONTRACTOR	DATE	BY	DATE	C.O.A. BENCHMARK	DATE	BY	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE
INSPECTOR'S COA	DATE	BY	DATE	AT THE INTERSECTION OF CENTRAL AND ELIZABETH	DATE	BY	DATE	11999	STEPHEN JAMES	DATE	BY	DATE	DATE	BY	DATE
FIELD STAKE BY	DATE	BY	DATE	ON THE MEDIAN	DATE	BY	DATE								
VERIFICATION BY	DATE	BY	DATE	ELEVATION = 5500.669'	DATE	BY	DATE								
COORDINATED BY	DATE	BY	DATE	GROUND COORDINATES : NORTHING = 1,481,746.33	DATE	BY	DATE								
RECORDED BY	DATE	BY	DATE	EASTING = 418,123.51	DATE	BY	DATE								
NO.				GRID COORDINATES : NORTHING = 1,481,220.09	DATE	BY	DATE								
				EASTING = 417,975.01	DATE	BY	DATE								
				GROUND TO GRID FACTOR: 0.99964485	DATE	BY	DATE								

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. 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.

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 SETUP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORK SITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORK SITE 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.

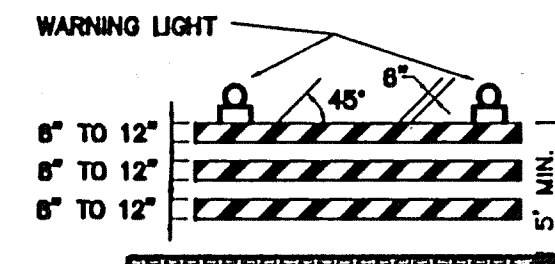
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

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

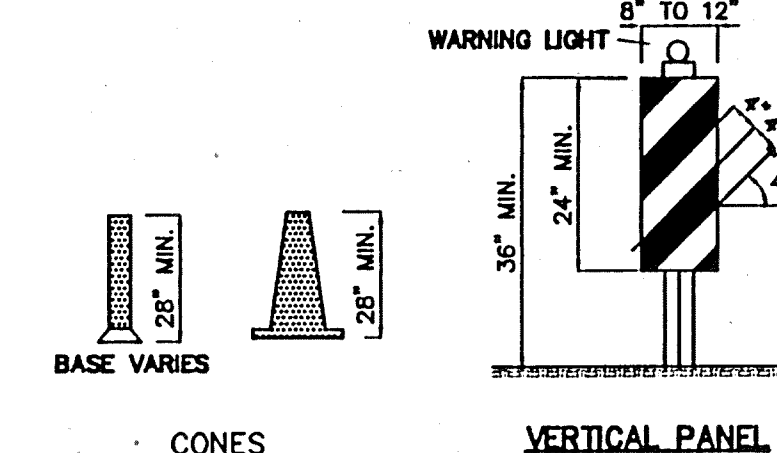
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

26. ADVANCE WARNING SIGNS SHALL BE 36"x36" WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48-INCH SIGN AS INDICATED IN THE MUTCD.

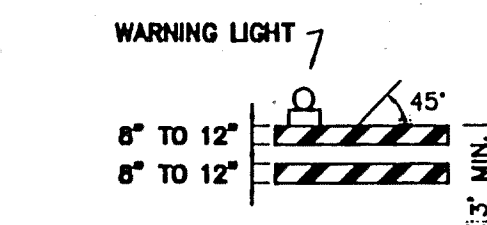
27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.



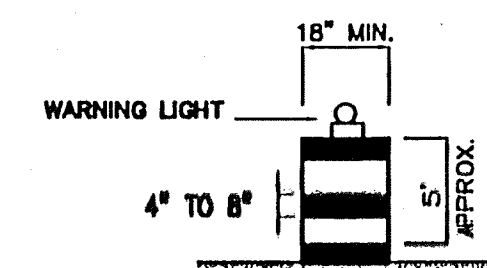
TYPE III BARRICADE



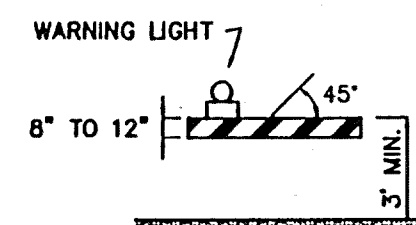
TYPE II BARRICADE



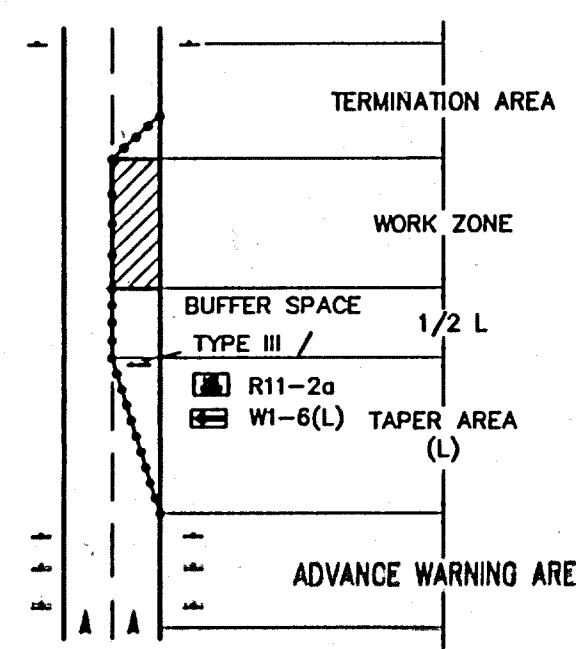
TYPE I BARRICADE



TYPE II BARRICADE



TYPE I BARRICADE



TRAFFIC CONTROL ELEMENTS

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 SPEED LIMIT OF THE STREET
- TAPER LENGTH - SEE CHART BELOW

THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET

TAPER REQUIREMENTS

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 MILES PER HOUR	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

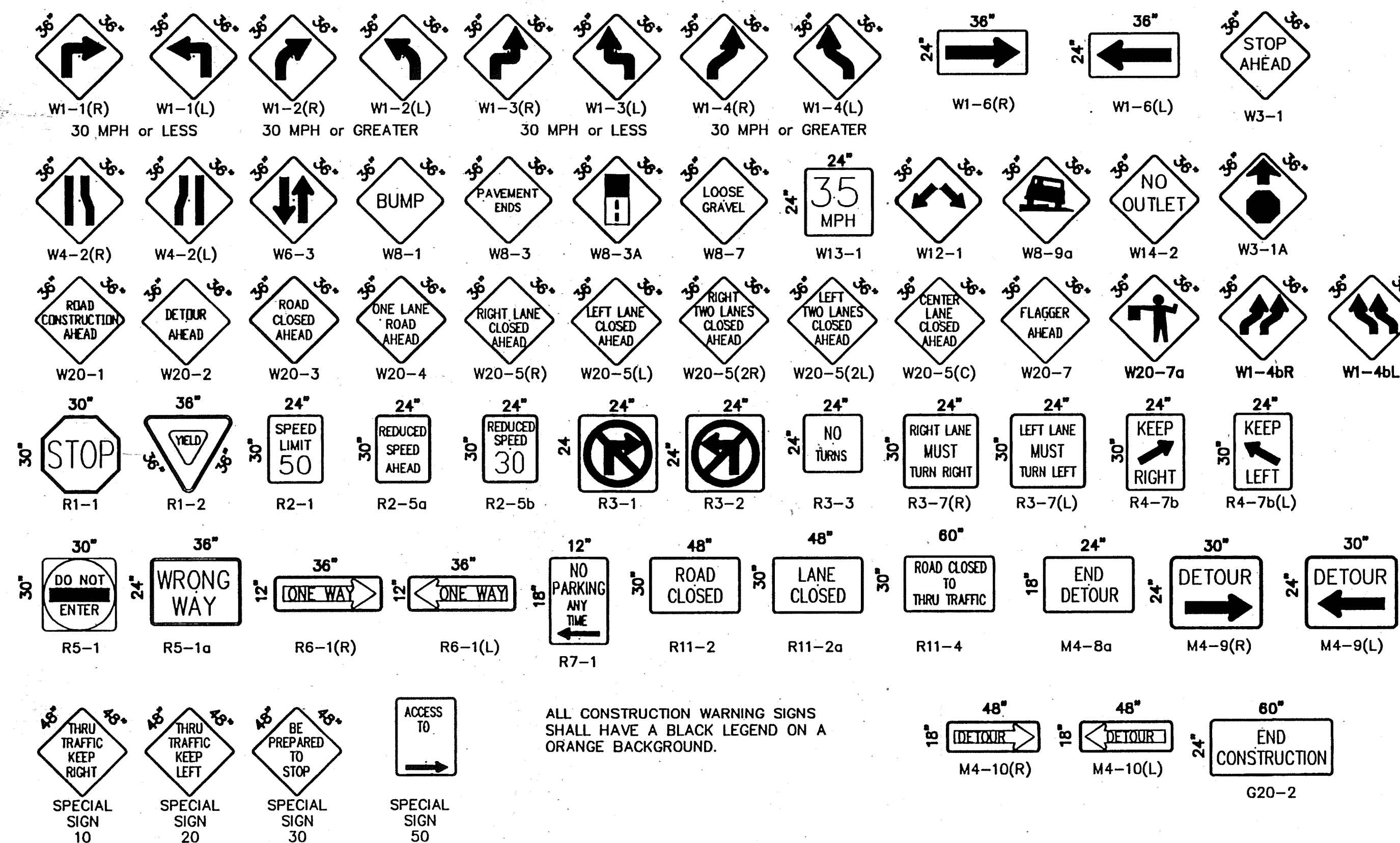
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTER TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSIDE TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT	L = WS ²
40 MPH OR LESS	60
45 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 DRAWINGS

Job #: 195106 SE7
Smith Engineering Company
A Full Service Engineering Company
4400 Olympic Boulevard, N.E. Suite 1000 Albuquerque, New Mexico 87110

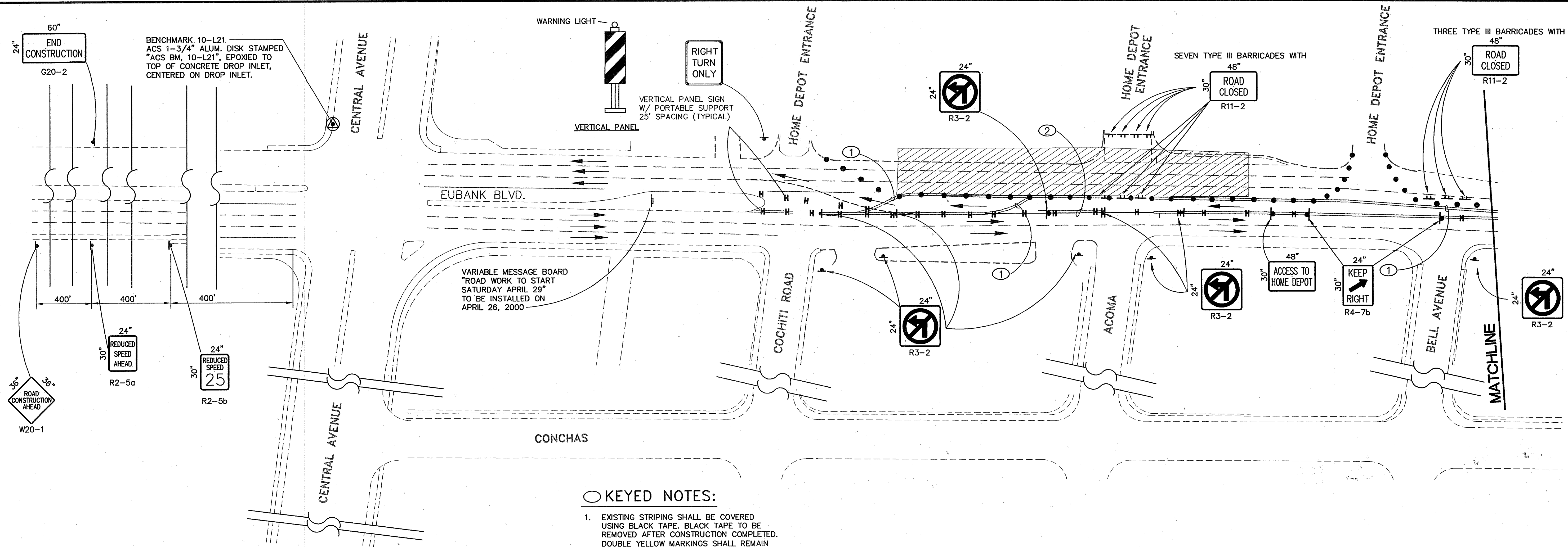
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: EUBANK STORM DRAIN : COCHITI ROAD TO BELL AVENUE
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

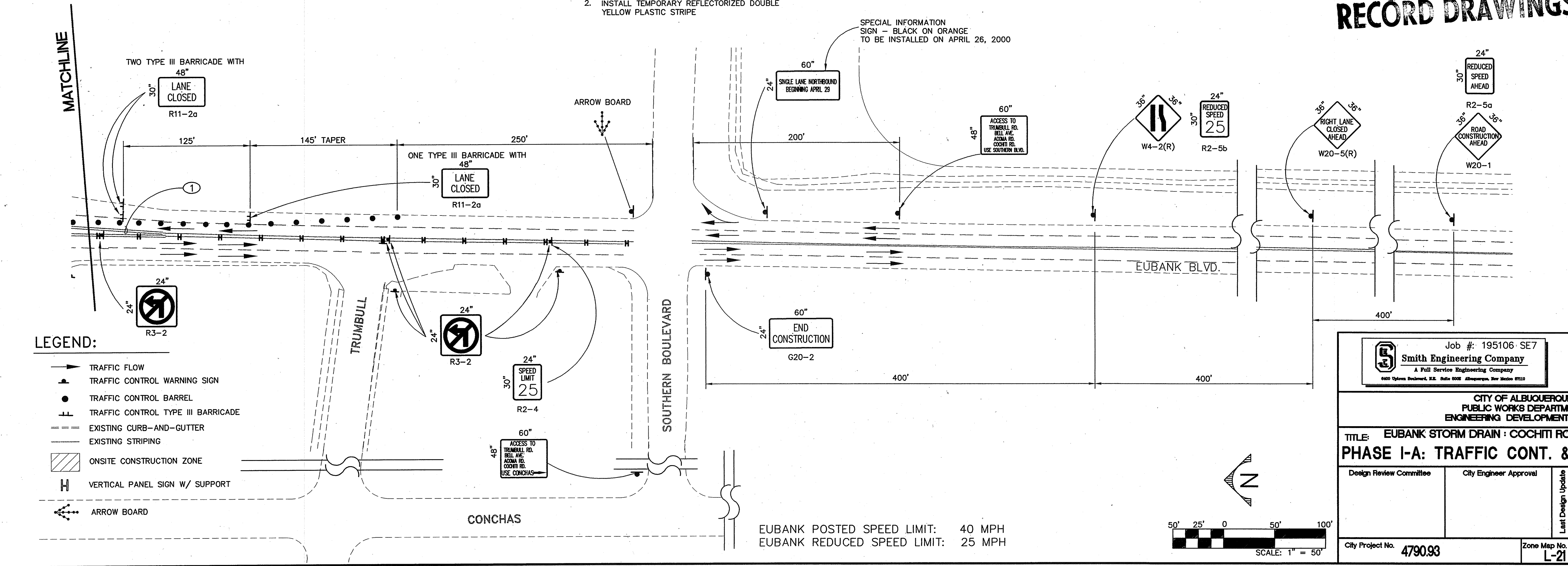
DESIGNED BY: SPK
DRAWN BY: JCS
CHECKED BY: DLA

DATE: 8/98
DATE: 8/98
DATE: 8/98

City Project No. 4790.93
Zone Map No. L-21
Sheet 9 of 13



- KEYED NOTES:**
- EXISTING STRIPING SHALL BE COVERED USING BLACK TAPE. BLACK TAPE TO BE REMOVED AFTER CONSTRUCTION COMPLETED. DOUBLE YELLOW MARKINGS SHALL REMAIN WHERE APPROPRIATE.
 - INSTALL TEMPORARY REFLECTORIZED DOUBLE YELLOW PLASTIC STRIPE



- LEGEND:**
- TRAFFIC FLOW
 - TRAFFIC CONTROL WARNING SIGN
 - TRAFFIC CONTROL BARREL
 - TRAFFIC CONTROL TYPE III BARRICADE
 - EXISTING CURB-AND-GUTTER
 - EXISTING STRIPING
 - ONSITE CONSTRUCTION ZONE
 - VERTICAL PANEL SIGN W/ SUPPORT
 - ARROW BOARD

RECORD DRAWINGS

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEERS SEAL	
CONTRACTOR	DATE	C.O.A. BENCHMARK	DATE	FIELD NOTES	BY	NO.	DATE
STATED BY	DATE	AT THE INTERSECTION OF CENTRAL AND ELIZABETH	DATE	BY	STEPHEN JAMES	11599	04/96
INSPECTOR'S	DATE	ON THE MEDIAN		TOLER, FROM	INC.		
FIELD	DATE	ELEVATION = 5500.668'		SURVEYING CONTROL			
REVISION	DATE	GROUND COORDINATES : NORTING = 1,481,746.33		INC.			
CORRECTED BY	DATE	EASTING = 418,123.51					
MICRO-FILM INFORMATION	DATE	GRID COORDINATES : NORTING = 1,481,220.09					
		EASTING = 417,975.01					
		GROUND TO GRID FACTOR: 0.99964485					

NO.	DATE	REVISIONS	DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
1	4/21	Revise Traffic Control for H-Deport	SPK	8/98	JCS	8/98	DLA	8/98

Job #: 195106 SE7	
Smith Engineering Company	
A Full Service Engineering Company	
6400 Uptown Boulevard, N.E. Suite 6000 Albuquerque, New Mexico 87110	

CITY OF ALBUQUERQUE	
PUBLIC WORKS DEPARTMENT	
ENGINEERING DEVELOPMENT GROUP	
TITLE: EUBANK STORM DRAIN : COCHITI ROAD TO BELL AVENUE	
PHASE I-A: TRAFFIC CONT. & SIGN SEQUENCE	
Design Review Committee	City Engineer Approval
City Project No. 4790.93	Zone Map No. L-21
Sheet 10	Of 13

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