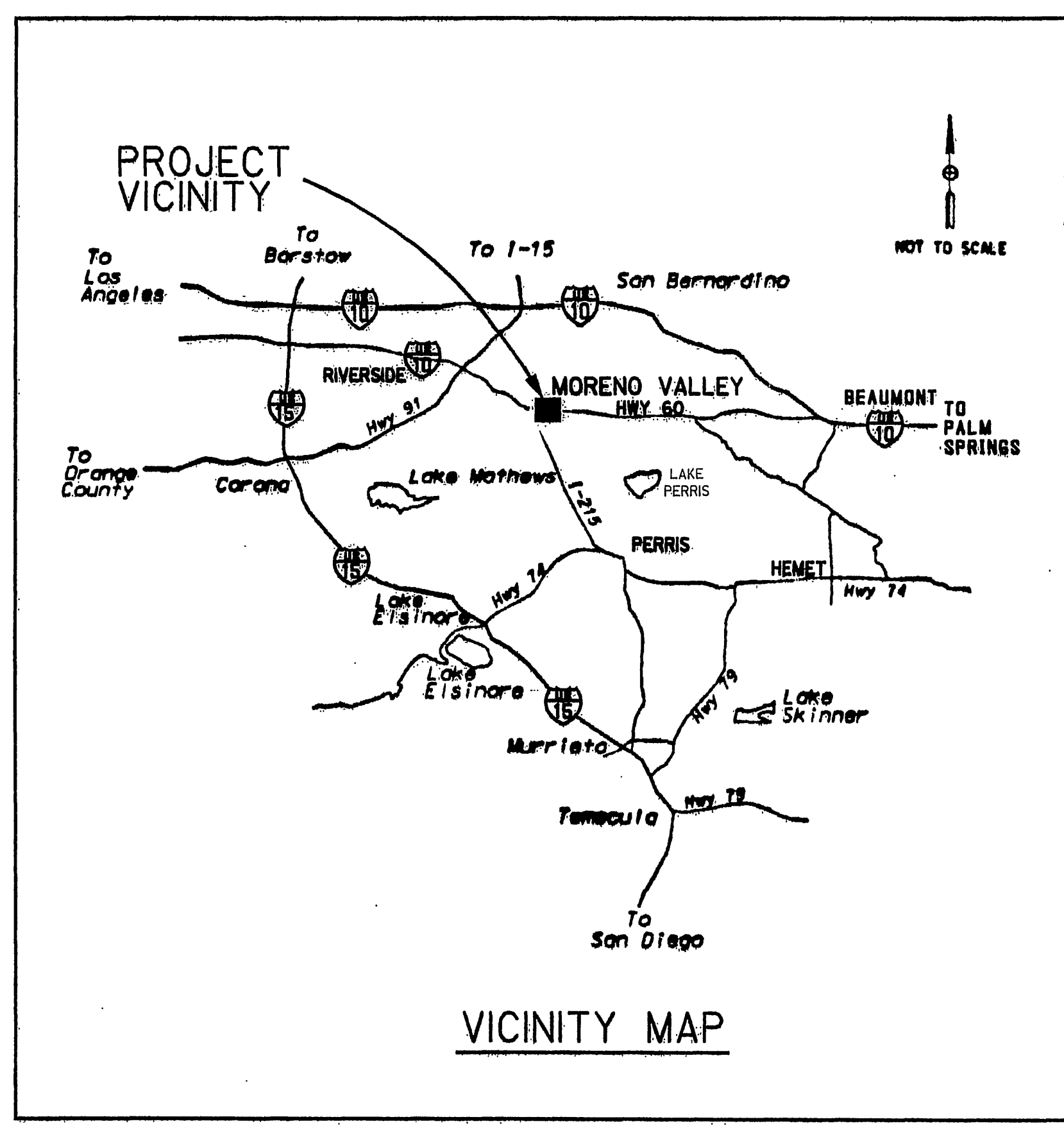
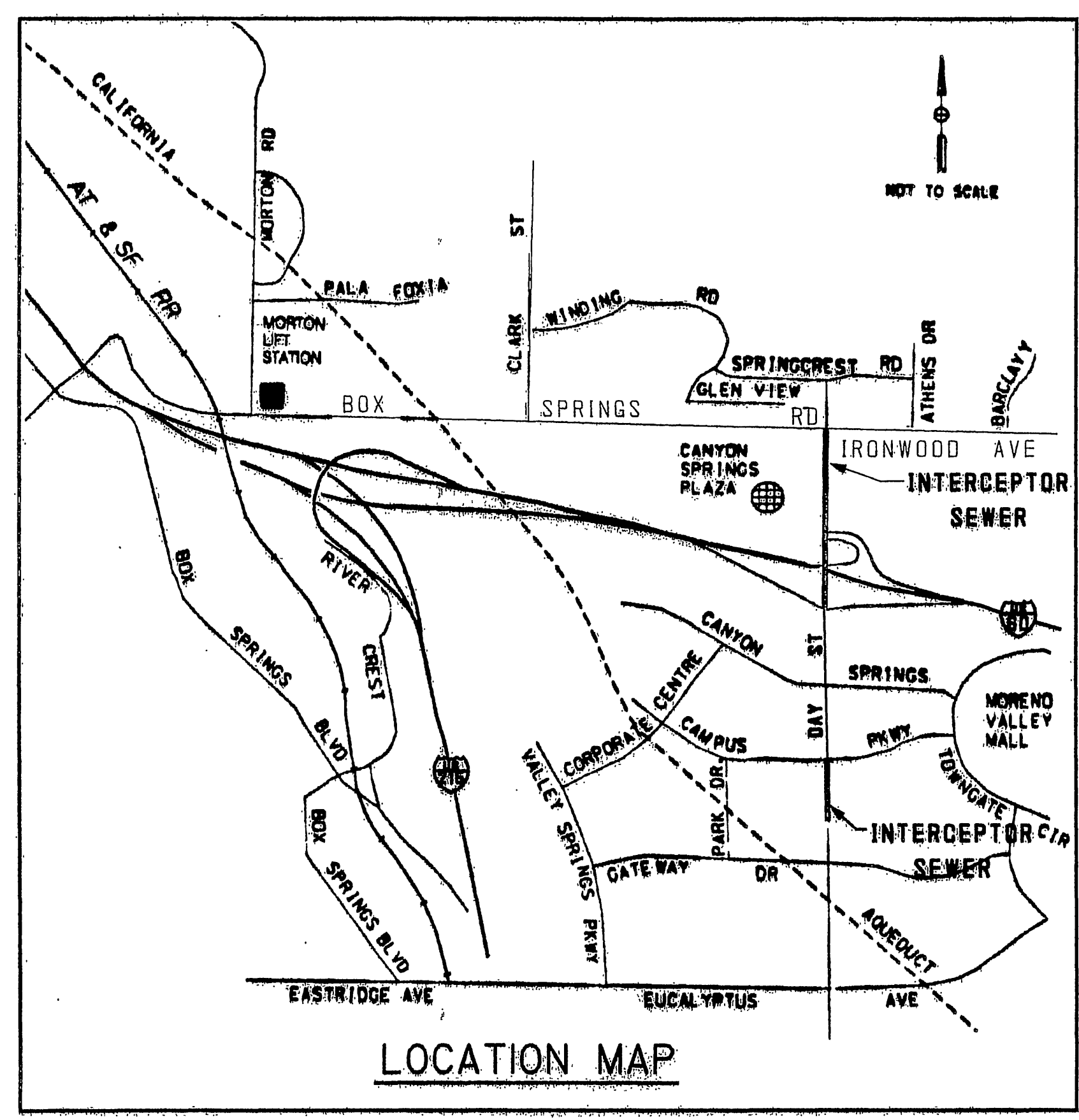


EASTERN MUNICIPAL WATER DISTRICT RIVERSIDE COUNTY, CALIFORNIA DAY STREET INTERCEPTOR SEWER



E.M.W.D. BOARD OF DIRECTORS

- PRESIDENT - RICHARD R. HALL
- VICE PRESIDENT - RANDY A. RECORD
- BOARD MEMBER - DAVID J. SLAWSON
- BOARD MEMBER - RODGER D. SIEMS
- BOARD MEMBER - RONALD W. SULLIVAN
- GENERAL MANAGER - ANTHONY J. PACK

APPROVED: _____
CHARLES BACHMANN, ASSISTANT GENERAL MANAGER, ENGINEERING

REVISIONS			
NO.	DATE	INITIALS	DESCRIPTION

REFERENCES

EASTERN MUNICIPAL WATER DISTRICT	
DESIGNED	DATE
DRAWN	
TRACED	
CHECKED	
SUBMITTED	
SCALE: NTS	

PROJECT MANAGER	DATE
PROJECT ENG.	INITIALS DATE
INSPECTION	
WTR. OPERATIONS	
SWR. OPERATIONS	

EASTERN MUNICIPAL WATER DISTRICT
RIVERSIDE COUNTY, CALIFORNIA

DAY STREET INTERCEPTOR SEWER

TITLE SHEET

I.B. U-13	
S.A. 32	
N.O. 10-510	
C.O. 60036	
COORD. 60036	
SHT. 1 OF 6	
D-21264A	

S-1819
SPEC. NO. 914S

ABBREVIATIONS

AB	ANCHOR BOLT, AGGREGATE BASE	GVL	GRAVEL
AC	ASBESTOS CEMENT, ASPHALTIC CONCRETE	HORIZ	HORIZONTAL
ADD	ADDITIONAL	HP	HORSEPOWER, HIGH PRESSURE
AL	ALUMINUM, ALUM	INV	INVERT
AVE	AVENUE	JT	JOINT
BM	BENCH MARK, BEAM	L	LEFT, ANGLE, LENGTH
BO	BLOW OFF	LF	LINEAR FEET
BOP	BOTTOM OF PIPE	MIN	MINIMUM, MINUTE
BOT	BOTTOM	MISC	MISCELLANEOUS
CARV	COMBINATION AIR RELEASE VALVE	MJ	MECHANICAL JOINT
CI	CAST IRON	N	NORTH
CIGC	CAST IRON GROOVED COUPLING	NO.	NUMBER, NUMBERING
CIMJ	CAST IRON MECHANICAL JOINT	NTS	NOT TO SCALE
CIP	CAST IRON PIPE	OD	OUTER DIAMETER
CIRJ	CAST IRON RESTRAINED JOINT	PV	PLUG VALVE
CL	CENTERLINE	PVC	POLYVINYL CHLORIDE PLASTIC-PAVEMENT
CMU	CONCRETE MASONRY UNIT	PVMT	
CONC	CONCRETE	RC	REINFORCED CONCRETE
CONN	CONNECTION	RD	ROAD, ROOF DRAIN
CONT	CONTINUOUS, CONTINUATION	RDCR	REDUCER
COORD	COORDINATE	RDW	REDWOOD
COP	COPPER	REF	REFER OR REFERENCE
CPLG	COUPLING	REINF	REINFORCED, REINFORCING, REINFORCE
CTD	CENTERED	REQD	REQUIRED
CTR	CENTER	RJ	RESTRAINED JOINT
DET	DETAIL	R/W	RIGHT-OF-WAY
DI	DROP INLET, DUCTILE IRON	SST	STAINLESS STEEL
DIA	DIAMETER	STA	STATION
DIMJ	DUCTILE IRON MECHANICAL JOINT	STD	STANDARD
DIP	DUCTILE IRON PIPE	TW	TOP OF WALL
DWG	DRAWING	TYP	TYPICAL
E	EAST		
EA	EACH		
ECC	ECCENTRIC		
EL	ELEVATION		
EXIST	EXISTING		
FG	FINISH GRADE		
FL	FLOOR		
FLG	FLANGE		
FT	FOOT OR FEET		
FTG	FOOTING		

NOTES

- UNLESS OTHERWISE NOTED, ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- THE GROUND PROFILE WAS DETERMINED BY A 1992 SURVEY, SUPPLEMENTED BY A 1996 GROUND SURVEY. CONTRACTOR SHALL VERIFY ELEVATIONS SHOWN.
- EXISTING UTILITIES, PIPELINES, AND STRUCTURES SHOWN ON THE DRAWINGS ARE IN ACCORDANCE WITH AVAILABLE RECORDS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY OFFICES WHICH ARE AFFECTED BY THE CONSTRUCTION OPERATIONS AT LEAST TWO WEEKS PRIOR TO COMMENCING PIPE TRENCH AND STRUCTURAL EXCAVATION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, SIZE, TYPE, AND ELEVATION OF ALL EXISTING UTILITIES AND STRUCTURES TO BE ENCOUNTERED ON THE PROJECT. THE CONTRACTOR'S CONSTRUCTION SCHEDULE SHALL INCLUDE A UTILITY VERIFICATION PLAN THAT WILL ALLOW UTILITY LOCATION VERIFICATION FAR ENOUGH IN ADVANCE OF PIPE MANUFACTURE AND PIPELINE CONSTRUCTION TO AVOID SIGNIFICANT MANUFACTURE AND/OR FIELD MODIFICATIONS. THE PLAN SHALL BE SUBMITTED BEFORE ANY PIPE TRENCH AND STRUCTURAL EXCAVATION OCCURS.
- ALL UTILITY INVERT ELEVATIONS SHOWN ON THE PROFILE WERE APPROXIMATED USING RECORD DRAWINGS.
- CONSTRUCTION AREAS SHALL NOT BE USED IN ANY MANNER THAT WILL CAUSE PERMANENT DAMAGE TO THE PROPERTY. THE CONTRACTOR SHALL RESTORE ALL CONSTRUCTION AREAS TO THEIR ORIGINAL CONDITIONS.
- THE CONTRACTOR SHALL BE REQUIRED TO KEEP ALL CONSTRUCTION ACTIVITIES WITHIN THE RIGHTS-OF-WAY, AND EASEMENTS OBTAINED FOR THIS PROJECT UNLESS OTHERWISE SHOWN. THIS SHALL INCLUDE BUT NOT BE LIMITED TO VEHICLES AND EQUIPMENT, LIMITS OF TRENCH EXCAVATION, AND STOCKPILED EXCAVATED MATERIAL AND BACKFILL MATERIAL IF THE CONTRACTOR REQUIRES ADDITIONAL CONSTRUCTION EASEMENTS. IT SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN SUCH EASEMENTS FROM INDIVIDUAL PROPERTY OWNERS.
- EXCAVATION LIMITS SHOWN IN THE DETAILS ARE GRAPHICAL REPRESENTATIONS ONLY, AND DO NOT REPRESENT ACTUAL EXCAVATION LIMITS OR SAFE TRENCH CONDITIONS REQUIRED TO COMPLETE THE WORK. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFORMANCE WITH LOCAL, STATE, AND FEDERAL CODES GOVERNING SHORING, SHEETING, AND BRACING OF EXCAVATIONS AND TRENCHES AND FOR PROTECTION AND SAFETY OF WORKERS AND OTHER CONSTRUCTION RELATED PERSONNEL.
- THE CONTRACTOR SHALL CONTACT ALL PERMITTING AGENCIES AND UNDERGROUND SERVICE ALERT (USA) OF SOUTHERN CALIFORNIA AT 800-227-2600 TWO WORKING DAYS BEFORE EXCAVATING IN A SPECIFIC AREA.
- REFERENCE IS MADE ON THE PLANS TO STANDARD DRAWINGS LOCATED IN THE SPECIFICATIONS.
- CONTRACTOR SHALL INSPECT ENTIRE SEWERLINE ALIGNMENT AND IDENTIFY ALL TRAFFIC LOOP LOCATIONS. CONTRACTOR SHALL COORDINATE WITH OWNING AGENCY TO OBTAIN AGENCY REQUIREMENTS FOR SIGNAL LIGHT OPERATION BOTH DURING AND AFTER CONSTRUCTION. CONTRACTOR SHALL REPLACE ALL TRAFFIC LOOPS AFTER SEWERLINE CONSTRUCTION TO THE STANDARDS OF THE OWNING AGENCY.
- CONTRACTOR HAS THE OPTION TO INSTALL PLASTIC OR VCP SEWER, EXCEPT WHERE SPECIFICALLY DESIGNATED ON PLANS PER EMWD STANDARDS AND SPECIFICATIONS.
- MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DWGS. SB-53, SB-56, SB-58 AND SB-61, AS APPLICABLE. SEWER MAINS MAY BE LAID THROUGH THE MANHOLES AND USED AS A FORM FOR THE INVERT.
- PRIOR TO CONSTRUCTION OF SEWER, CONTRACTOR SHALL EXPOSE EXISTING SEWER AND VERIFY ITS EXISTING ELEVATION AND LOCATION. WHERE CONNECTING TO EXISTING MANHOLES AND INLET STUB OF PROPER SIZE EXISTS, NO ALTERATIONS SHALL BE MADE TO EXISTING MANHOLE BASE OR STUB EXCEPT AS SPECIFICALLY AUTHORIZED BY EMWD.
- ALL SEWER INLETS AT THE MANHOLE SHALL BE SUCH THAT ITS CROWN SHALL BE LEVEL WITH THE CROWN OF THE OUTLET PIPE, AT THEIR PROJECTIONS TO THE MANHOLE CENTERLINE.
- RECONSTRUCTION OF EXISTING MANHOLES SHALL BE SCHEDULED AT THE CONVENIENCE OF EMWD AND SHALL BE COMPLETED WITHIN FIVE WORKING DAYS FOLLOWING ITS COMMENCEMENT.
- THE CONTRACTOR IS ADVISED THAT THE WORK ON THIS PROJECT MAY INVOLVE WORKING IN A CONFINED AIR SPACE. CONTRACTOR SHALL BE RESPONSIBLE FOR "CONFINED AIR SPACE" ARTICLE 108, TITLE 8, CALIFORNIA ADMINISTRATIVE CODE.
- WHERE GROUNDWATER IS ENCOUNTERED, ALL VCP PIPE SHALL BE TREATED FOR ADSORPTION RESISTANCE PER EMWD'S SPECIFICATIONS.
- ALL PIPEZONE BEDDING AND TRENCH BACKFILL ARE TO BE PER STANDARD DRAWING SB-157, SB-158 AND SB-159.

WARNING NOT IN CONTRACT

PRIOR TO INTERCEPTING EXISTING SEWER FORCE MAIN AT DAY STREET, THE FOLLOWING PUMP AND ELECTRICAL MODIFICATIONS WILL BE REQUIRED AT THE MORTON ROAD LIFT STATION.

- AT THE TIME THE FORCE MAIN IS BEING CONNECTED AT DAY STREET AND BOX SPRINGS ROAD, ALL PUMPS SHALL BE LOCKED OUT TO PREVENT ANY PUMPING TO OCCUR DURING THE PERIOD THAT THE RELOCATION OF THE FORCE MAIN IS BEING COMPLETED.
- AFTER COMPLETION OF THE FORCE MAIN RELOCATION, THE DISCHARGE VALVES ON EACH PUMP TRAIN SHALL BE CLOSED TO 50 PERCENT.
- ONE PUMP TRAIN AT A TIME SHALL BE STARTED AND THE ELECTRICAL CURRENT MONITORED TO PREVENT OVER PUMPING. THE DISCHARGE VALVE SHALL BE ADJUSTED ON ALL PUMP TRAINS.
- AFTER COMPLETION OF THE DISCHARGE VALVE ADJUSTMENT, THE CONTRACTOR SHALL REMOVE ONE SET OF PUMPS AT A TIME AND SHAVE THE PUMP IMPELLERS TO PERMIT THE PUMP TRAIN DISCHARGE VALVE TO BE 100 PERCENT REOPENED WITHOUT OVERLOADING THE MOTOR THROUGHOUT THE FULL RANGE OF THE PUMP.

LEGEND

- EXISTING UTILITIES
- F ----- FIBER OPTIC CONDUIT AND WATER LINE
- ===== NEW EMWD FORCE MAIN
- ===== EXISTING EMWD FORCE MAIN
- ⬠ PLUG VALVE
- ⊙ EXISTING TREES
- EXISTING SEWER
- PROPOSED SEWER



REVISIONS			
NO.	DATE	INITIAL	DESCRIPTION
1	9/24/03	BBR	DELETE WARNING NOTE



APPROVED BY: _____ DATE _____

DIRECTOR OF ENGINEERING

REFERENCES

EASTERN MUNICIPAL WATER DISTRICT

PROJECT MANAGER: _____ DATE _____

APPROVALS

PROJECT ENG. INSPECTION	INITIAL	DATE
WTR. OPERATIONS	ESR	7/12/99
SVR. OPERATIONS	TPW	9/24/03

SCALE: AS SHOWN

EASTERN MUNICIPAL WATER DISTRICT

RIVERSIDE COUNTY, CALIFORNIA

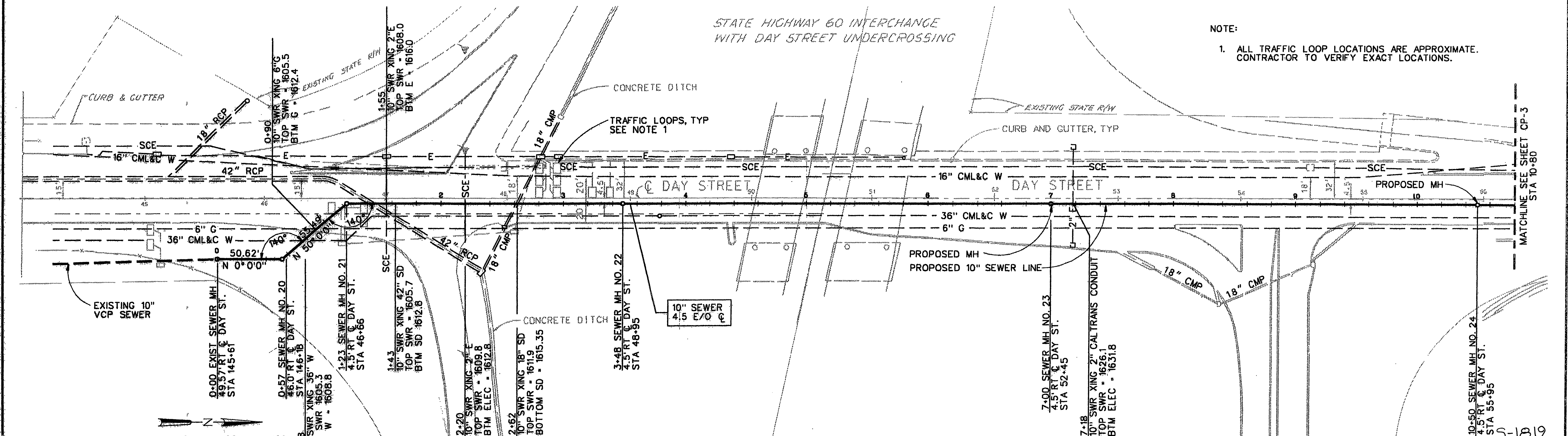
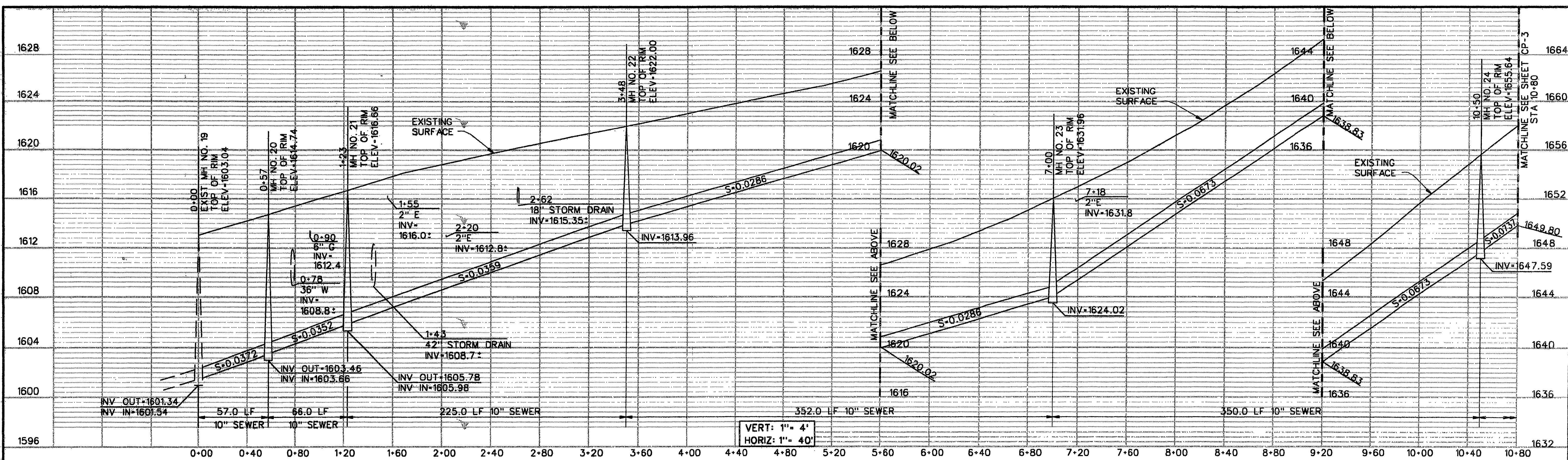
MORTON ROAD LIFT STATION MODIFICATIONS AND DAY STREET INTERCEPTOR SEWER

ABBREVIATIONS, LEGEND AND NOTES

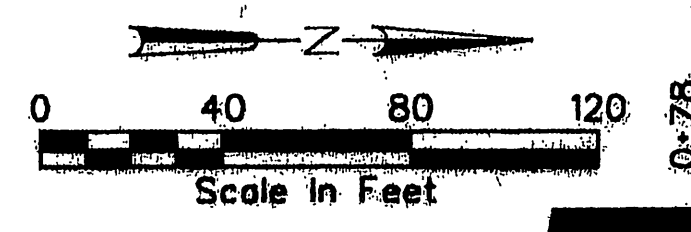
S-1819

DESIGNED	M LARKIN	APRIL 99
DRAWN	K BURNS	APRIL 99
TRACED	NA	
CHECKED	NA	APRIL 99
SUBMITTED	M LARKIN	APRIL 99

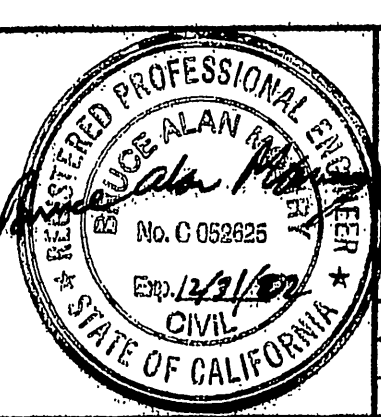
I.D. U-13
S.A. 32
W.D. 10-510
C.O.
COORD. 60C36
SHT. 2 OF 6
CP-1
D-21264B



NOTE:
1. ALL TRAFFIC LOOP LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY EXACT LOCATIONS.



REVISIONS			
NO.	DATE	INITIAL	DESCRIPTION



APPROVED BY:

 DIRECTOR OF ENGINEERING
 DATE _____

REFERENCES

EASTERN MUNICIPAL WATER DISTRICT
 PROJECT MANAGER: _____
 DATE _____

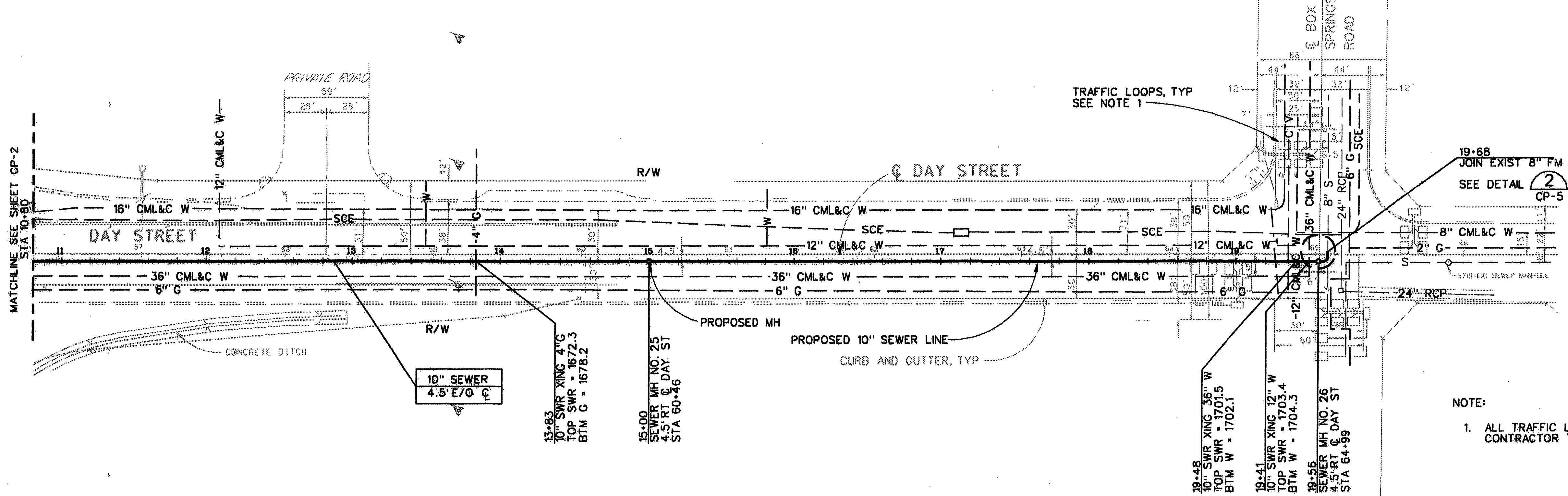
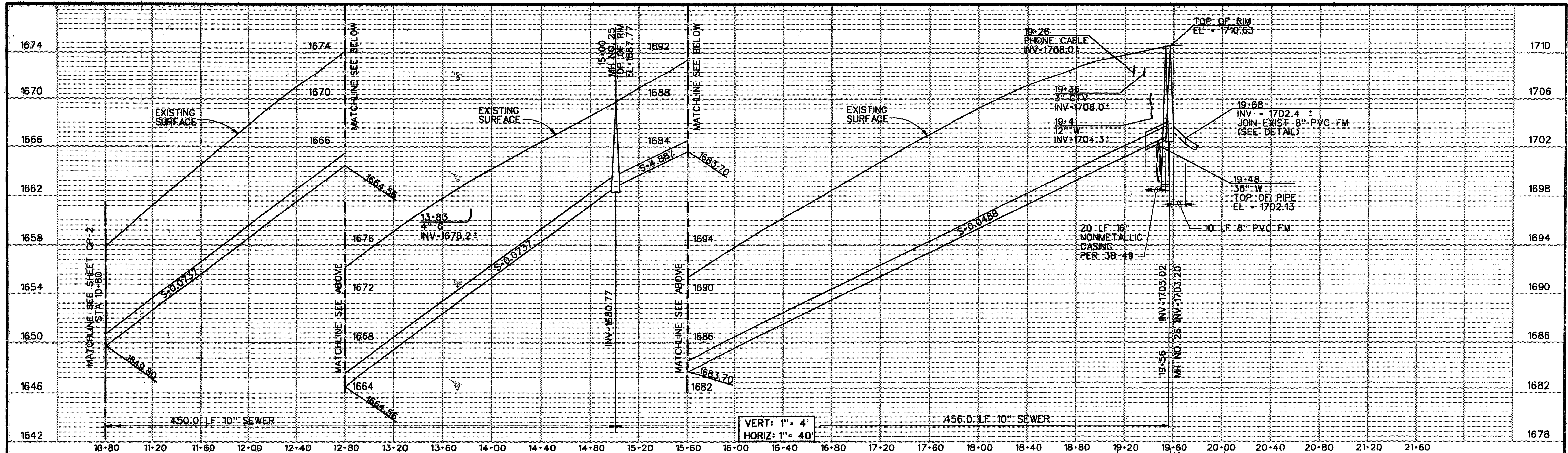
APPROVALS

PROJECT ENG.	INITIAL	DATE
DESIGNED	M LARKIN	4/12/99
DRAWN	L CHANG	4/12/99
TRACED		
CHECKED	B MOWRY	4/12/99
SUBMITTED	M LARKIN	4/12/99

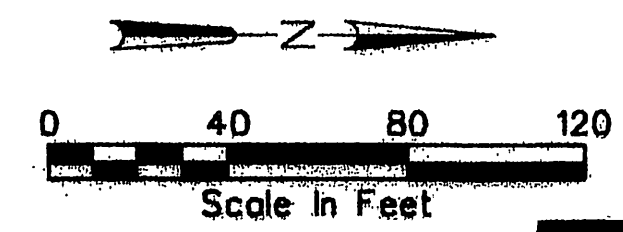
SCALE:

EASTERN MUNICIPAL WATER DISTRICT
 RIVERSIDE COUNTY, CALIFORNIA
 MORTON ROAD LIFT STATION MODIFICATIONS
 AND DAY STREET INTERCEPTOR SEWER
 PLAN AND PROFILE
 STA 0+00 TO 10+80

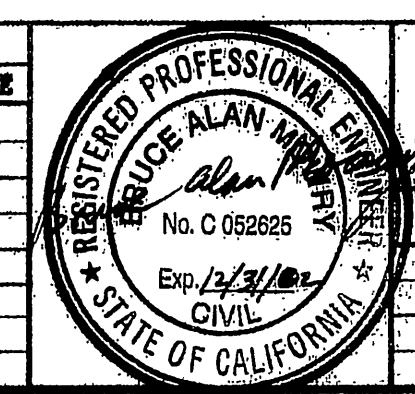
I.D. U-13
 S.A. 32
 W.O. 10-510
 C.O.
 COORD. 60C36
 SHT. 3 OF 6
 CP-2
 D-21265



NOTE:
1. ALL TRAFFIC LOOP LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY EXACT LOCATIONS.



REVISIONS				
NO.	DATE	INITIAL	DESCRIPTION	APP'VD / DATE



APPROVED BY: _____
DIRECTOR OF ENGINEERING DATE _____
REFERENCES

EASTERN MUNICIPAL WATER DISTRICT		DESIGNED M LARKIN	DATE APRIL 99
PROJECT MANAGER		DRAWN L CHANG	DATE APRIL 99
APPROVALS		TRACED	DATE N/A
PROJECT NO. 17-12-199		CHECKED B MOWRY	DATE APRIL 99
DATE OF PREP. 4/22/99		SUBMITTED M LARKIN	DATE APRIL 99
DATE OF REV. 4/22/99		SCALE:	

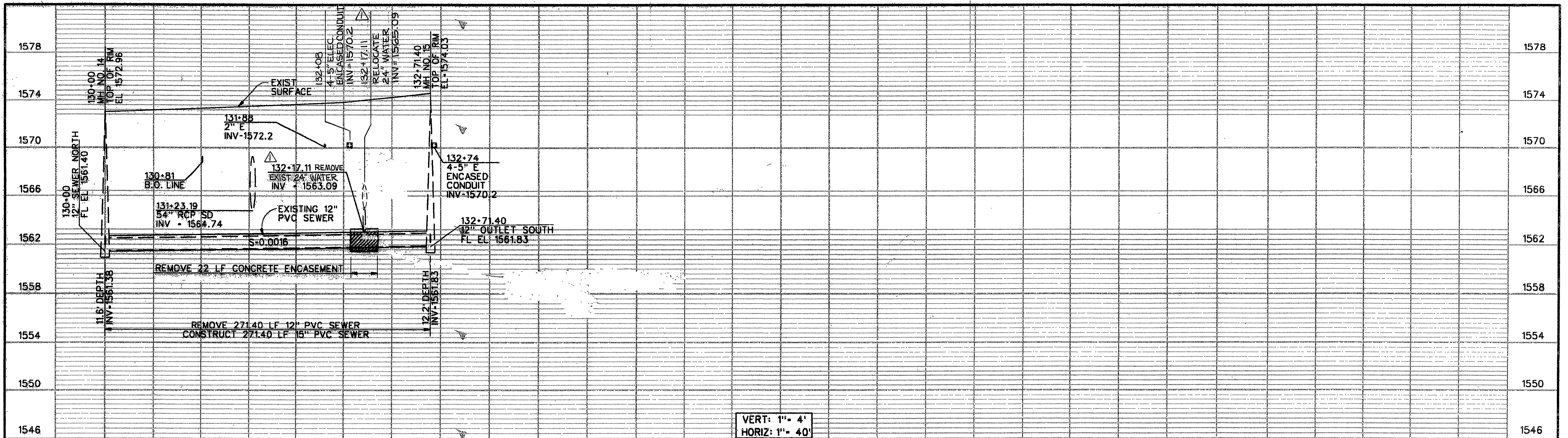
S-1819

EASTERN MUNICIPAL WATER DISTRICT
RIVERSIDE COUNTY, CALIFORNIA

MORTON ROAD LIFT STATION MODIFICATIONS
AND DAY STREET INTERCEPTOR SEWER

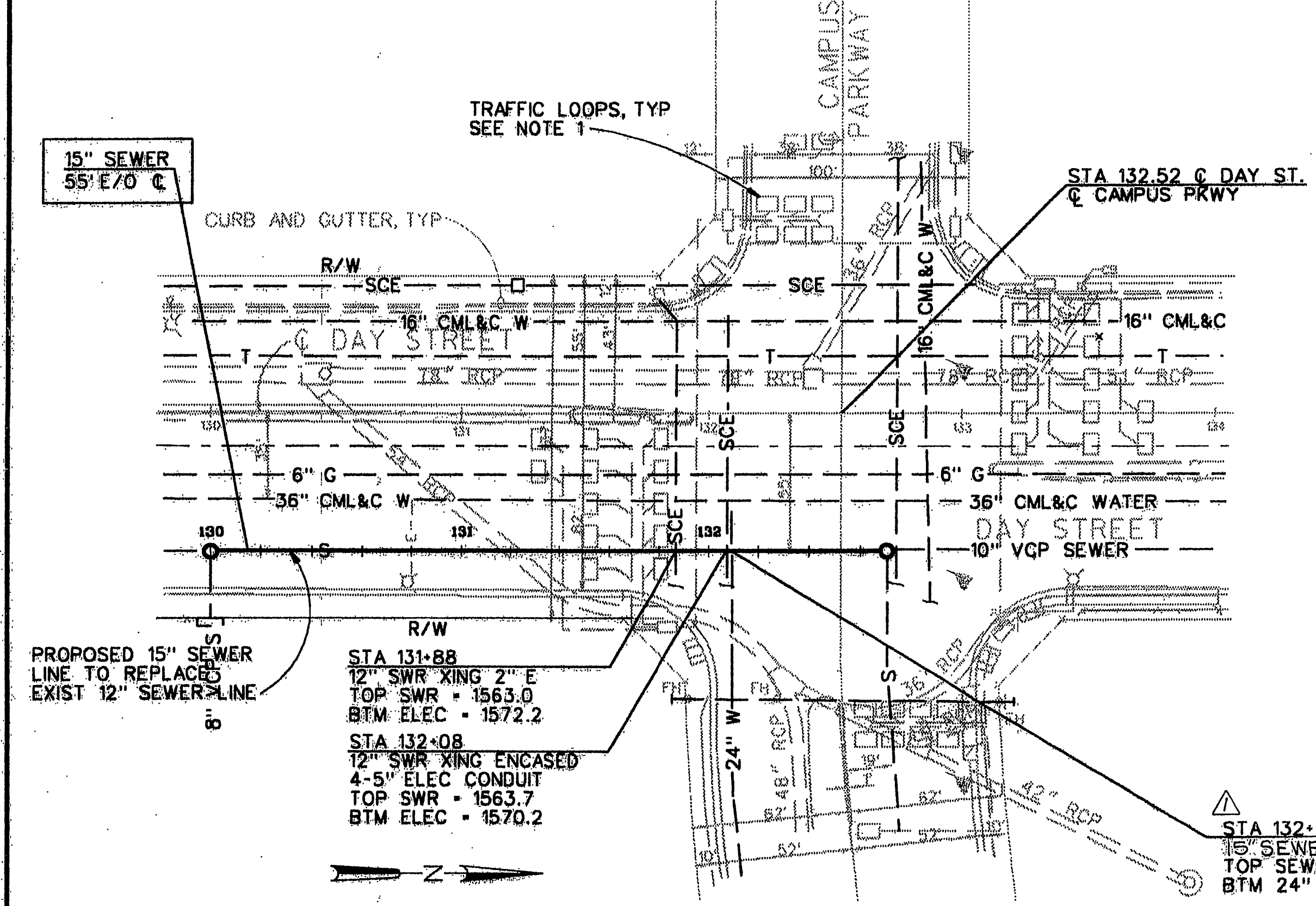
PLAN AND PROFILE
STA 10+80 TO 19+66

I.D.	U-13
S.A.	32
W.D.	10-510
C.D.	
COORD.	60C36
SHT.	4 OF 6
CP-3	
D-21266	



130+00 130+40 130+80 131+20 131+60 132+00 132+40 132+80 133+20 133+60 134+00 134+40 134+80 135+20 135+60 136+00 136+40 136+80 137+20 137+60 138+00 138+40 138+80 139+20 139+60 140+00 140+40 140+80 141+140 141+60

VERT: 1" = 4'
HORIZ: 1" = 40'



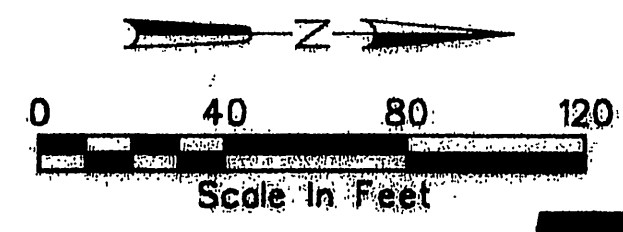
PROPOSED 15" SEWER LINE TO REPLACE EXIST 12" SEWER LINE

R/W
STA 131+88
12" SWR XING 2" E
TOP SWR = 1563.0
BTM ELEC = 1572.2

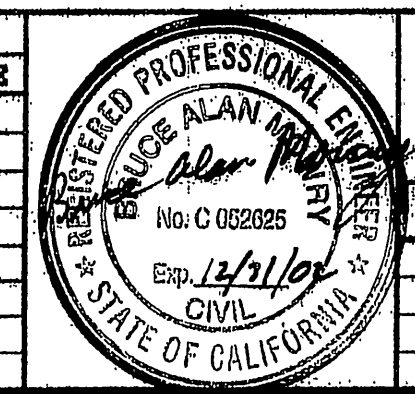
R/W
STA 132+08
12" SWR XING ENCASED
4-5" ELEC CONDUIT
TOP SWR = 1563.7
BTM ELEC = 1570.2

STA 132+17.11 RELOCATE 24" WATER PER D-12378
15" SEWER XING 24" WATER
TOP SEWER = 1563.02
BTM 24" W = 1565.01

NOTE:
1. ALL TRAFFIC LOOP LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY EXACT LOCATIONS.



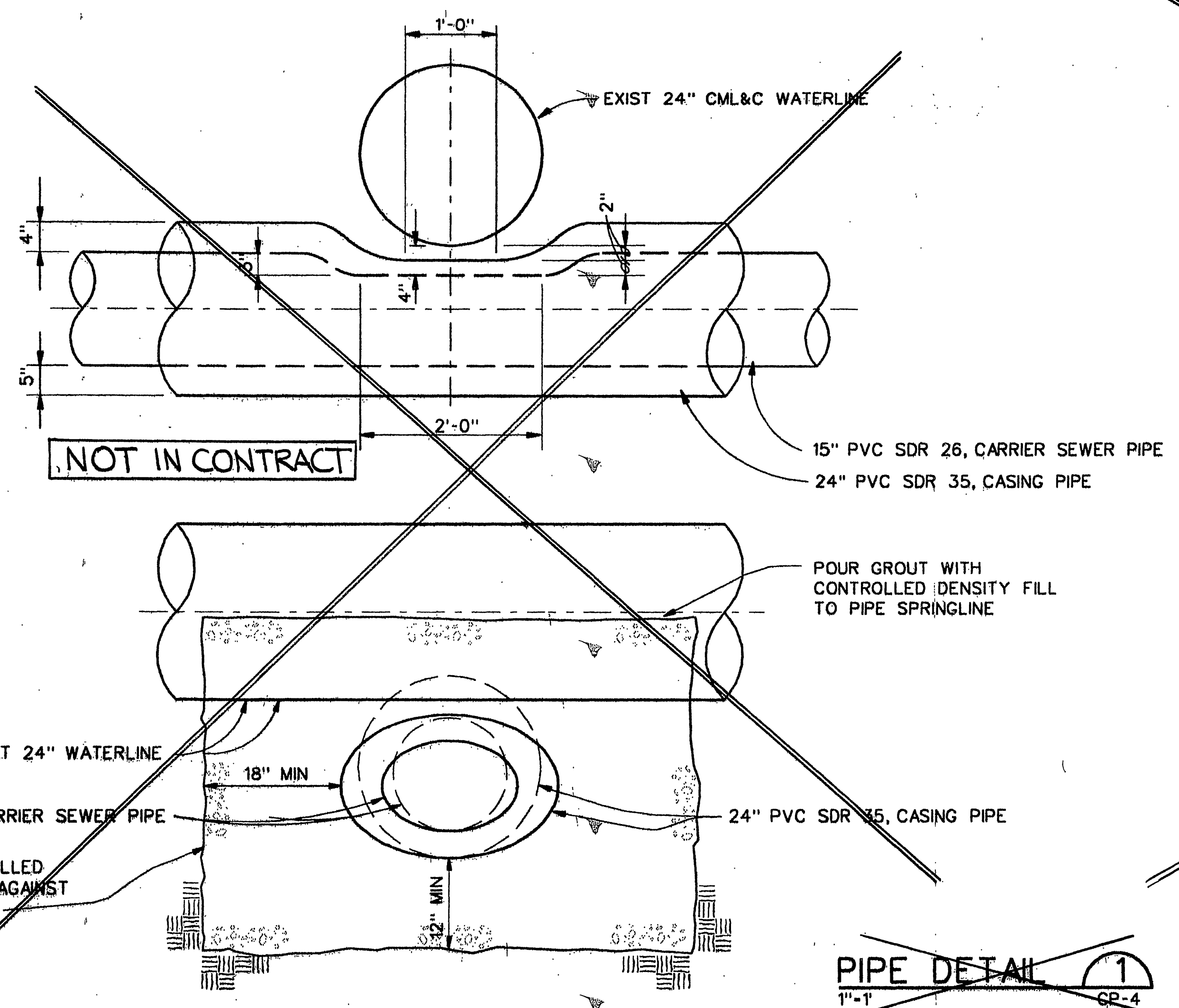
REVISIONS			
NO.	DATE	INITIAL	DESCRIPTION
1	9/24/03	BBR	SHOW 24" WIL RELO, DELETE SWR CASING



APPROVED BY:
DIRECTOR OF ENGINEERING
DATE

EASTERN MUNICIPAL WATER DISTRICT		DESIGNED	M LARKIN	DATE	APRIL 99
PROJECT MANAGER		DRAWN	L CHANG	DATE	APRIL 99
APPROVALS		TRACED	NA	DATE	NA
		CHECKED	B MOWRY	DATE	APRIL 99
		SUBMITTED	M LARKIN	DATE	APRIL 99

EASTERN MUNICIPAL WATER DISTRICT		S-1819	
RIVERSIDE COUNTY, CALIFORNIA		I.D.	U-13
MORTON ROAD LIFT STATION MODIFICATIONS AND DAY STREET INTERCEPTOR SEWER		S.A.	32
PLAN AND PROFILE		W.O.	10-510
STA 130+00 TO STA 132+71.40		C.O.	
SCALE:		COORD.	60C36
		SHT.	5 of 6
		CP-4	
		D-21267	

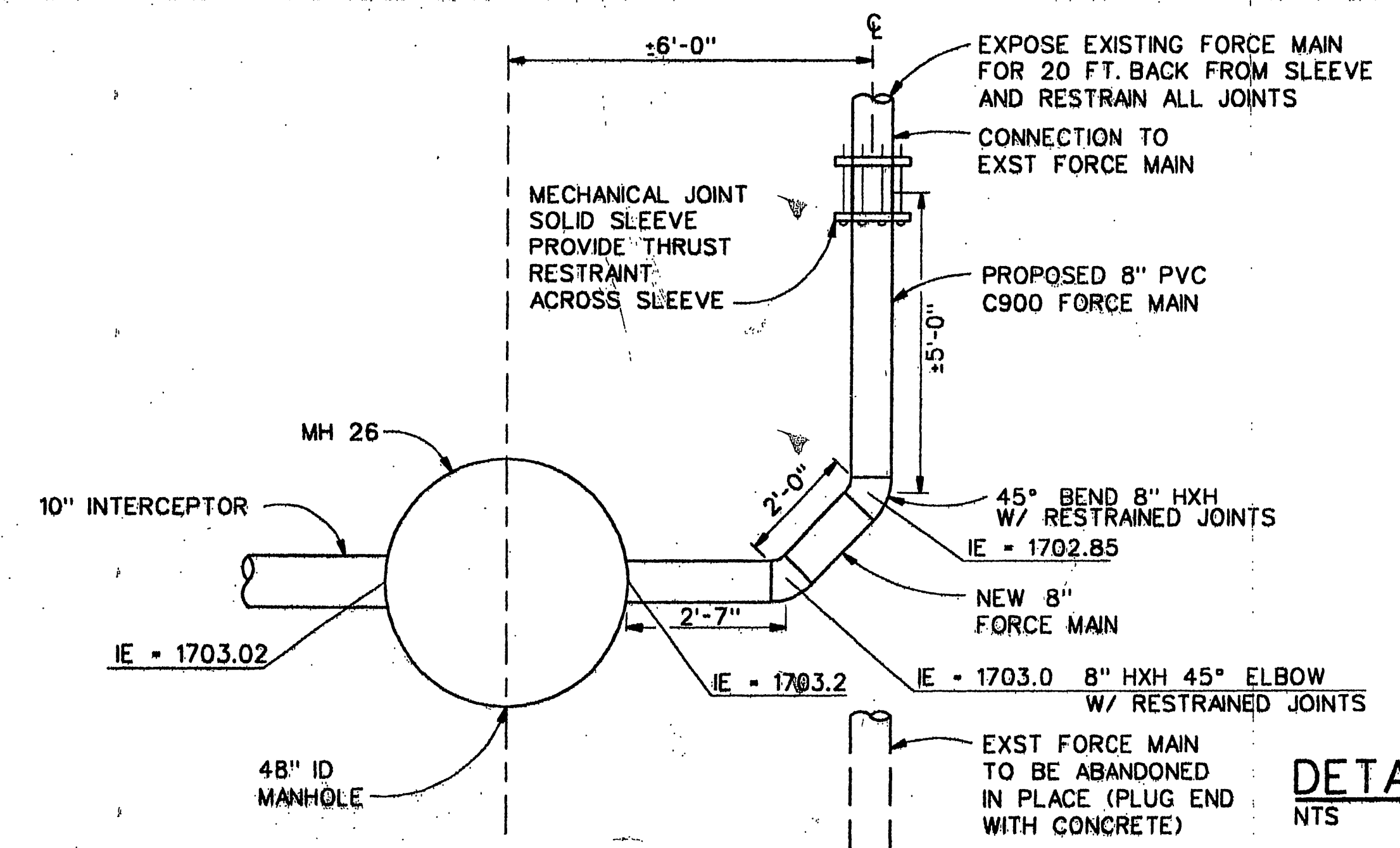


FABRICATION OF SEWER CARRIER AND CASING PIPES

1. PREPARE A FORM THAT WILL MAINTAIN THE PIPE IN BOTH THE HORIZONTAL AND VERTICAL DIRECTIONS DURING THE PIPE DEFLECTION PROCESS. THE FORM SHALL BE FABRICATED FROM TWO 4'x8' SHEETS OF PLYWOOD PLACED LONG END TO LONG END AND SHALL BE PLACED ON A LEVEL FLOOR. SIDEBARDS SHALL BE ADDED ON THE FORMS TO MAINTAIN A STRAIGHT PIPE ALIGNMENT. THE SIDEBARDS SHALL ONLY BE PLACED ON BOTH ENDS OF THE PLYWOOD TO PREVENT NON-UNIFORM DEFLECTION OF THE PIPE DURING THE BENDING PROCESS.
A VERTICAL FORM SHALL ALSO BE CONSTRUCTED ON BOTH SIDES OF THE PIPE TO PREVENT OVER-DEFLECTION DURING THE PIPE BENDING PROCESS. THIS FORM SHALL BE USED DURING BOTH PIPE-BENDING PROCESSES.
2. MARK THE PIPE AT MID-LENGTH. IT WILL BE AT THIS LOCATION THAT THE PIPE WILL BE THE CENTER OF THE DEFLECTED AREA.
3. WARM THE PIPE SLOWLY TO A TEMPERATURE OF APPROXIMATELY 275 TO 300 DEGREES F. (THE PLASTIC PIPE HAS A "MEMORY" UP TO ABOUT 275 DEGREES. CONTINUALLY ROLL THE PIPE TO CAUSE UNIFORM HEATING OF THE ENTIRE PIPE SECTION. THE LENGTH OF PIPE TO BE HEATED SHALL BE APPROXIMATELY 4 FEET FOR THE 15-INCH PIPE AND 6 FEET FOR THE 24-INCH PIPE. THE HEATING OF EACH PIPE SHALL BE ACCOMPLISHED BY AN INDUSTRIAL DUTY SPACE HEATER. DO NOT OVERHEAT OR SCORCH THE PIPE.
4. AFTER THE PIPE HAS BEEN HEATED TO THE REQUIRED TEMPERATURE, CAREFULLY MOVE THE PIPE ONTO THE PLYWOOD FORM AND DEFLECT THE PIPE BY PLACING UNIFORM PRESSURE ON THE PIPE. THE LENGTH OF THE DEFLECTION FOR THE 15-INCH PIPE SHALL BE 1 FOOT IN LENGTH AND 2 FEET IN LENGTH FOR THE 24-INCH PIPE. DURING BOTH DEFLECTION PROCESSES, THE FORM SHALL ALSO BE USED TO PREVENT OVER-DEFLECTION OF THE PIPE. DURING THE DEFLECTION PROCESS, THE PIPE SHALL BE ALLOWED TO BECOME "UNIFORMLY" OVAL WHILE THE INVERT OF THE PIPE IS MAINTAINED LEVEL.
5. COOL THE PIPE BY ADDING WATER OVER THE PIPE. THE COOLING PROCESS SHALL BE COMPLETED WHILE HOLDING THE PIPE IN ITS PROPER CONFIGURATION.
6. REPEAT THE DEFLECTION PROCESS FOR THE 24-INCH PIPE.
7. AFTER BOTH PIPES HAVE BEEN DEFLECTED, THE 15-INCH PIPE SHALL BE GROUTED IN PLACE WITHIN THE 24-INCH CASING PIPE. THIS GROUTING PROCESS SHALL BE COMPLETED IN A FOUR-STEP PROCESS: FIRST, THE 15-INCH PIPE SHALL BE INSERTED INTO THE 24-INCH PIPE AND BLOCKED AGAINST THE TOP OF THE 24-INCH PIPE. SECOND, A GROUT PAD SHALL BE PLACED INTO THE 24-INCH PIPE ON WHICH THE 15-INCH PIPE WILL BE LAID. THIRD, THE 15-INCH PIPE SHALL BE LOWERED ONTO THE GROUT PAD AND BLOCKED IN POSITION BOTH VERTICALLY AND HORIZONTALLY. FOURTH, THE REMAINING ANNULAR SPACE SHALL BE GROUTED. PREVENT THE GROUT FROM EXTENDING BEYOND 1 FOOT FROM EITHER END OF THE PIPE. THIS LENGTH IS REQUIRED FOR JOINT MAKEUP DURING THE PIPE INSTALLATION PROCESS. THE ANNULAR SPACE SHALL BE GROUTED WITH CONTROLLED DENSITY FILL.

INSTALLATION OF PIPING

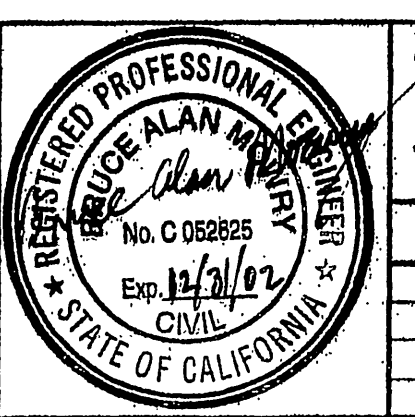
1. LAY THE PROPOSED SEWERLINE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS TO A LOCATION THAT IS 10-FEET FROM THE 24-INCH WATERLINE CROSSING.
2. OVER-EXCAVATE THE TRENCH UNDER THE 24-INCH WATERLINE. INSTALL PIPE SECTION AND USE CONCRETE BLOCKS TO POSITION THE PIPE AND CASING IN PLACE. CONNECT THE DOWNSTREAM END OF THE SEWERLINE TO THE SEWERLINE AS PLACED IN 1., ABOVE. CONFIRM THE HORIZONTAL AND VERTICAL ALIGNMENT OF THE PIPE SECTION.
3. GROUT WITH CONTROLLED DENSITY FILL AROUND THE PIPE SECTION TO UNDISTURBED EARTH.



NOTES:

1. EXPOSE THE EXISTING 8" FORCE MAIN ADJACENT TO MANHOLE 26. MEASURE AND LAYOUT THE NEW PIPING THAT WILL CONNECT FROM THE EXISTING FORCE MAIN TO THE 8" FORCE MAIN STUBOUT AT THE MANHOLE.
2. REVIEW THE SHUTDOWN AND RECONSTRUCTION PROCEDURES WITH THE OWNER PRIOR TO ANY ADDITIONAL ACTIVITY BEING TAKEN. OBTAIN APPROVAL FROM OWNER PRIOR TO ANY ADDITIONAL ACTIONS BEING TAKEN. UPON APPROVAL, BY THE OWNER, THE REMAINING WORK CAN BE ACCOMPLISHED.
3. AT ABOUT MIDNIGHT OR AT THE START OF THE LOW FLOW PERIOD, SHUT OFF ALL PUMPS AND DRAIN THE FORCE MAIN BACK INTO THE WETWELL SO THE SEWAGE LEVEL IS BELOW THE POINT OF CONNECTION AT THE MANHOLE.
4. CUT EXISTING PIPE, INSTALL NEW PIPE.
5. ANCHOR THRUST RESTRAINT SYSTEM INTO MANHOLE WALL TO PREVENT MOVEMENT OF 45° ELBOW.
6. PARTIALLY CLOSE THE DISCHARGE VALVES TO CREATE A BACK-PRESSURE HEAD AGAINST THE PUMPS AND ELECTRICALLY CHECK THE MOTORS TO ENSURE THAT THEY ARE NON-OVERLOADING. RESET THE PUMPS TO OPERATE NORMALLY.
7. PRIOR TO BEGINNING ANY WORK, CONTRACTOR IS REQ'D TO HAVE ALL EQUIPMENT AND MATERIALS AT THE JOB SITE TO EXCAVATE, SHORE, INSTALL NEW PIPE AND BACKFILL, COMPLETE.

REVISIONS				
NO.	DATE	INITIAL	DESCRIPTION	APP'VD / DATE
1	9/24/03	BBR	DELETE ELLIPTICAL PIPE DETAIL & NOTES	



APPROVED BY:

 DIRECTOR OF ENGINEERING DATE

 REFERENCES

EASTERN MUNICIPAL WATER DISTRICT		DESIGNED	DATE
PROJECT MANAGER		DRAWN	APRIL 99
APPROVALS		TRACED	APRIL 99
PROJECT ENG. [Signature]		CHECKED M TOVAR	APRIL 99
INSPECTION [Signature]		SUBMITTED M LARKIN	APRIL 99
WVE OPERATIONS [Signature]		SCALE: AS SHOWN	

EASTERN MUNICIPAL WATER DISTRICT		I.D.	U-13
RIVERSIDE COUNTY, CALIFORNIA		S.A.	32
MORTON ROAD LIFT STATION MODIFICATIONS AND DAY STREET INTERCEPTOR SEWER		N.O.	10-510
DETAILS AND CONSTRUCTION NOTES		C.O.	
		COORD.	60C36
		SHT.	6 OF 6
		CP-5	
		D-21268	