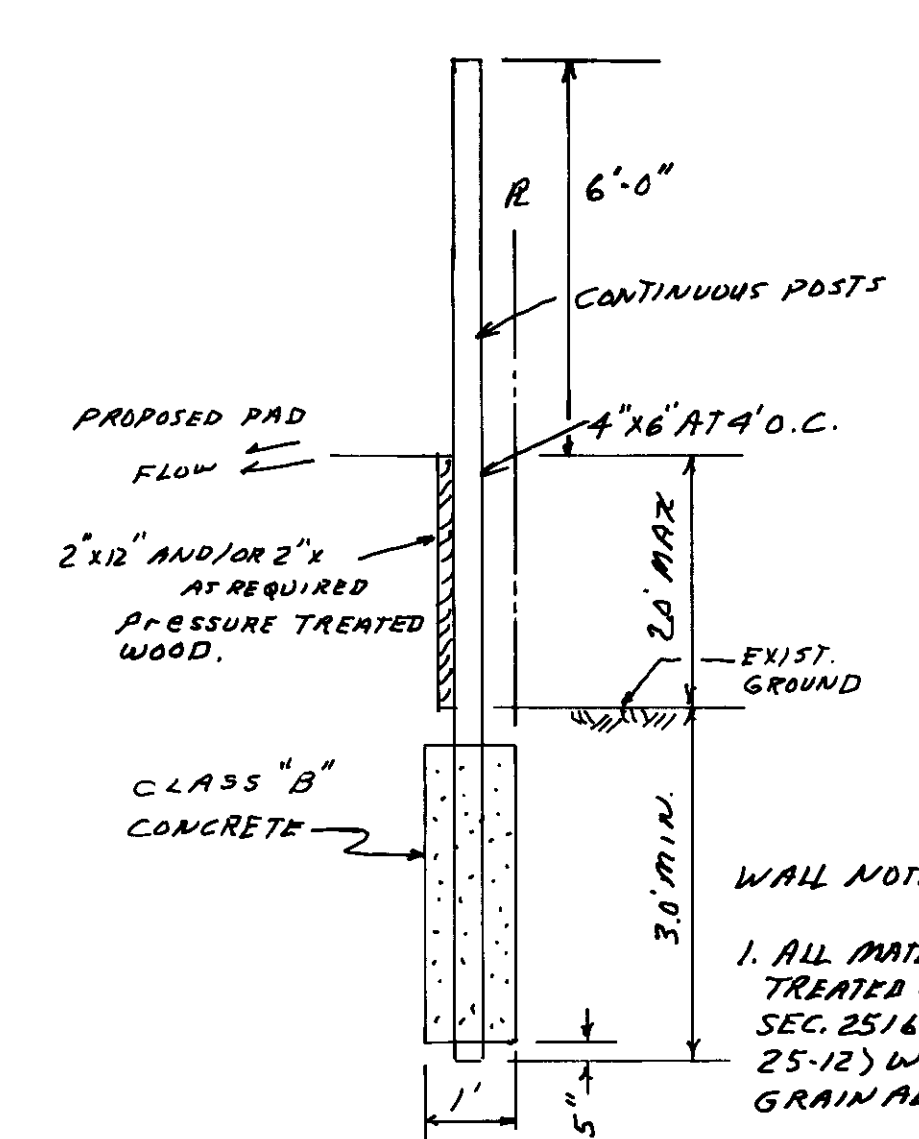


TYPICAL LOT GRADING DETAIL

- NOTES:
1. ALL GRADING SHALL COMPLY WITH 1994 U.B.C. CHAPTER 29 AND APPENDIX CHAPTER 70.
 2. NO SLOPE SHALL BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL.
 3. REFER TO GEOTECHNICAL INVESTIGATION REPORT BY KLEIN FELDER () TO DETERMINE LOT GRADING, SITE PREPARATION AND FOUNDATION RECOMMENDATION.



SECTION A-A

NOTE: EACH HOUSE WILL BE SET ON STEM WALL WITH FLOOR 1.5' ABOVE ELEVATION AT FRONT PROPERTY LINE.

X EXIST. EL.
• PROPOSED EL.

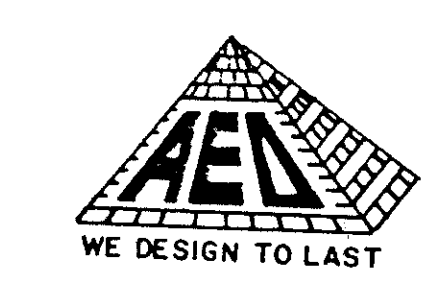
WALL NOTES:
1. ALL MATERIALS SHALL BE TREATED WOOD PER U.B.C. SEC. 2516 (STANDARD NO. 25-12) WITH NO OPEN GRAIN ALLOWED.



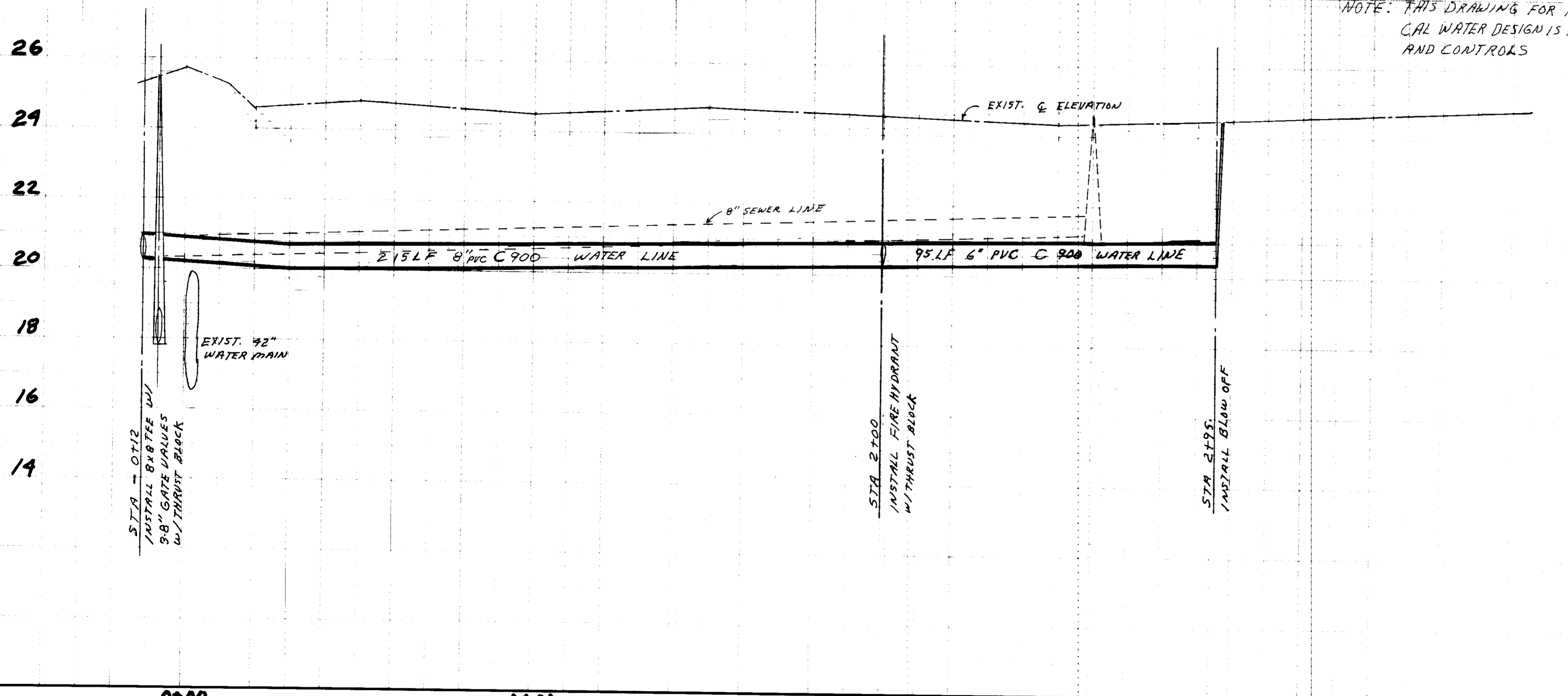
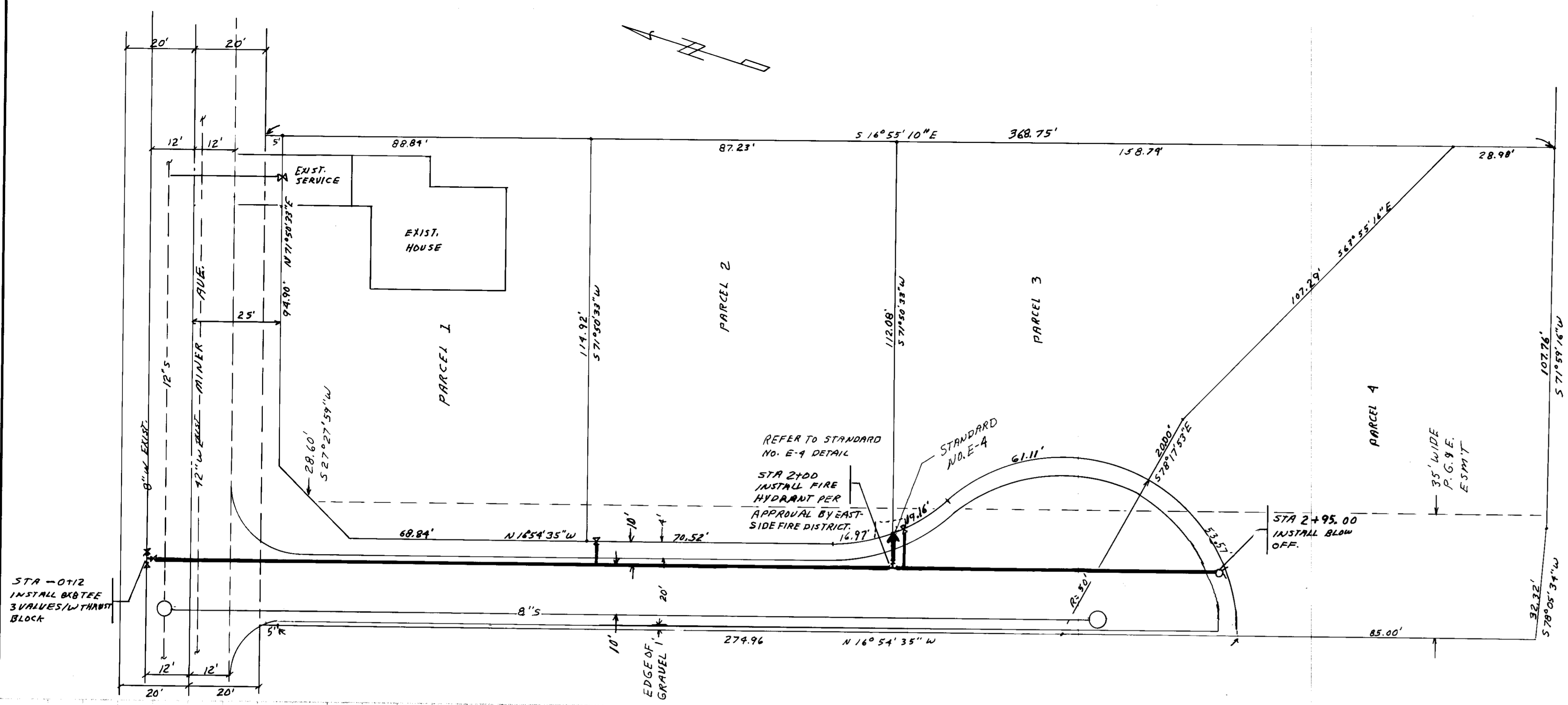
DATE: 4-22-96

APPROVAL BY: _____
DIRECTOR OF PUBLIC WORKS
DATE: _____

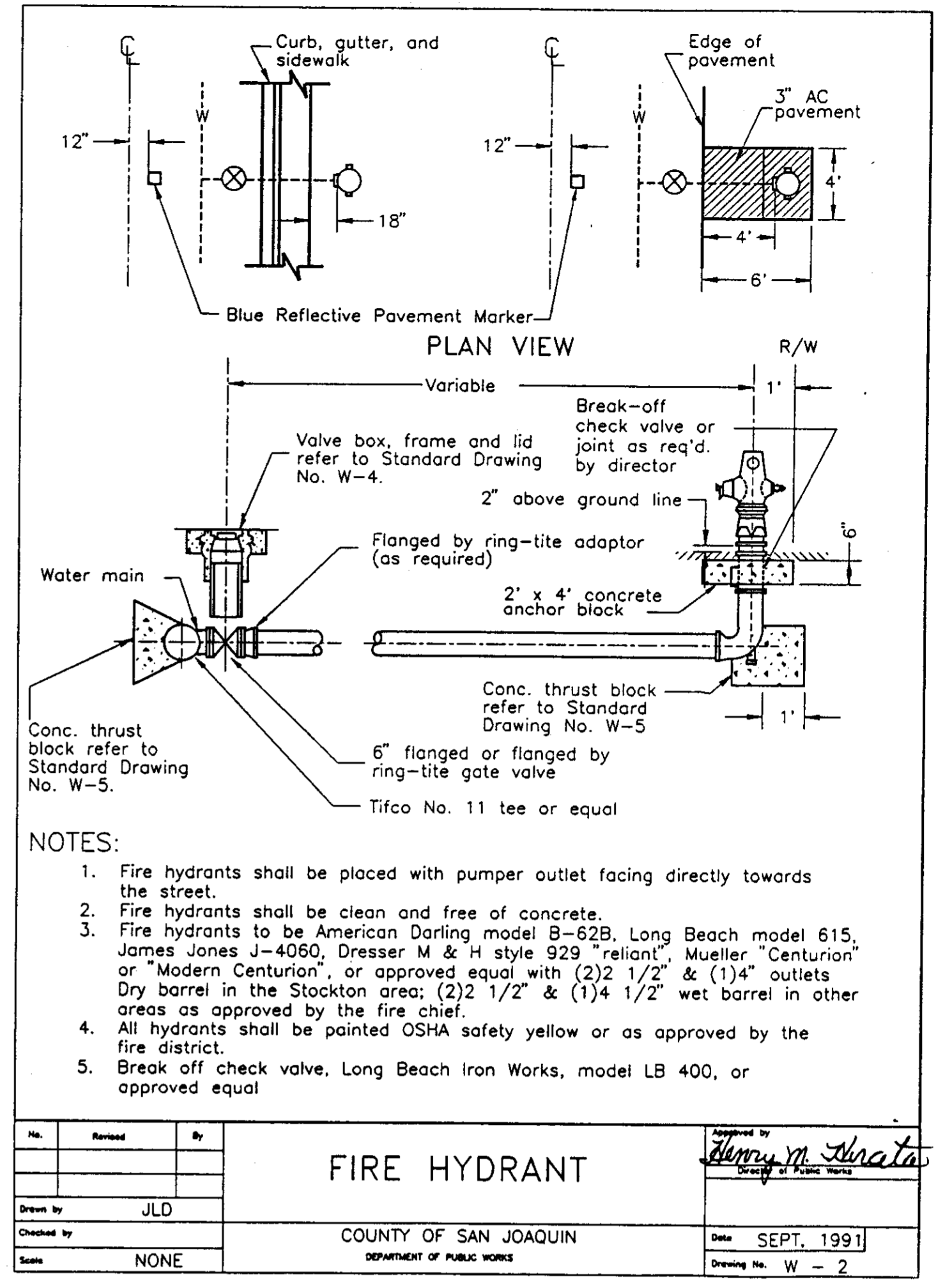
SITE GRADING PLAN
MS-91-16 PARCELS 1-4



ARMSTRONG ENGINEERING & DEVELOPMENT, LTD.
3840 N. BRUCE ST.
LAS VEGAS, NV 89101
(702) 220-7220



NOTE: THIS DRAWING FOR INFO ONLY
CAL WATER DESIGN IS ATTACHED
AND CONTROLS

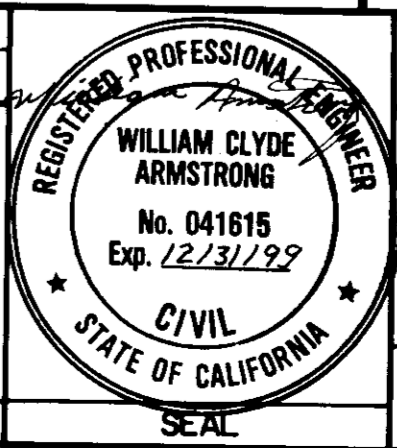


No.	Revised	By	Checked by	DATE
			JLD	SEPT. 1991
FIRE HYDRANT			COUNTY OF SAN JOAQUIN DEPARTMENT OF PUBLIC WORKS	
Scale: NONE			Drawing No. W-2	

CAL WATER
 APPROVAL BY: NIA JLB Camy
 DATE: 8-11-97

DESIGN	FIELD BOOKS	REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	DATA	OWN	CRD	BY	DATA	OWN	CRD	BY	
STAKING						B7197	C of Stockton, Contra Costa	28.865				BASE				TELE				
ASBUILT							65-9 3" DIA. PIPE 5' S. of S.					TOPO				ELEC				
CONTRACTOR							Re. L of S.P.I. Co. Tracks on E					PROFILE				DESIGN				
INSPECTOR							of Avenue of Santa Fe Ave.					SAN SEWER				QUANTITIES				
							25' S of Santa Fe Ave.					STORM SEWER				QTY CHECK				
							N. RIM 24"	25.625				WATER								
							MS-91-16					GAS				CODED BY				

ARMSTRONG ENGINEERING DEVELOP. LTD.
 3840 N. BRUCE ST
 LAS VEGAS, NV 89101
 We Design To Last (702) 220-7220



MS-91-16 PARCELS 1-4		WATER IMPROVEMENTS	
SCALE: HOR. 1"=20'	DATE: 4-22-96	GRID	SHEET 5 of 6
VER. 1"=2'	ACCT. NO.		

4012.4C

EARTHWORK.--Earthwork shall conform to the requirements in Section 19, "Earthwork," of the Standard Specifications and these special provisions.

All relative compaction requirements of Section 19-5, "Compaction," of the Standard Specifications, shall be not less than 90 percent.

The requirement of the second paragraph of Section 19-5.03, "Relative Compaction (95 percent)," of the Standard Specifications, will be required only in those areas shown on the plans.

In lieu of the tolerance specified in Section 19-1.03B, "Grade Tolerance," of the Standard Specifications, the surface of the grading plane shall not be more than 0.05 foot above or below the grade established by the Engineer.

Before grade is approved by the County, all earthwork (including driveways and slopes) shall be compacted to grade. Unless otherwise shown on the plans, all surplus materials not to be salvaged, stockpiled or disposed of as provided in Section 19-2.06, "Surplus Material," of the Standard Specifications, shall become the property of the Contractor and disposed of as provided in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications.

Unless otherwise shown on the plans, the existing pavement, when used as an embankment, shall be broken up into pieces not larger than 0.33 foot in greatest dimension.

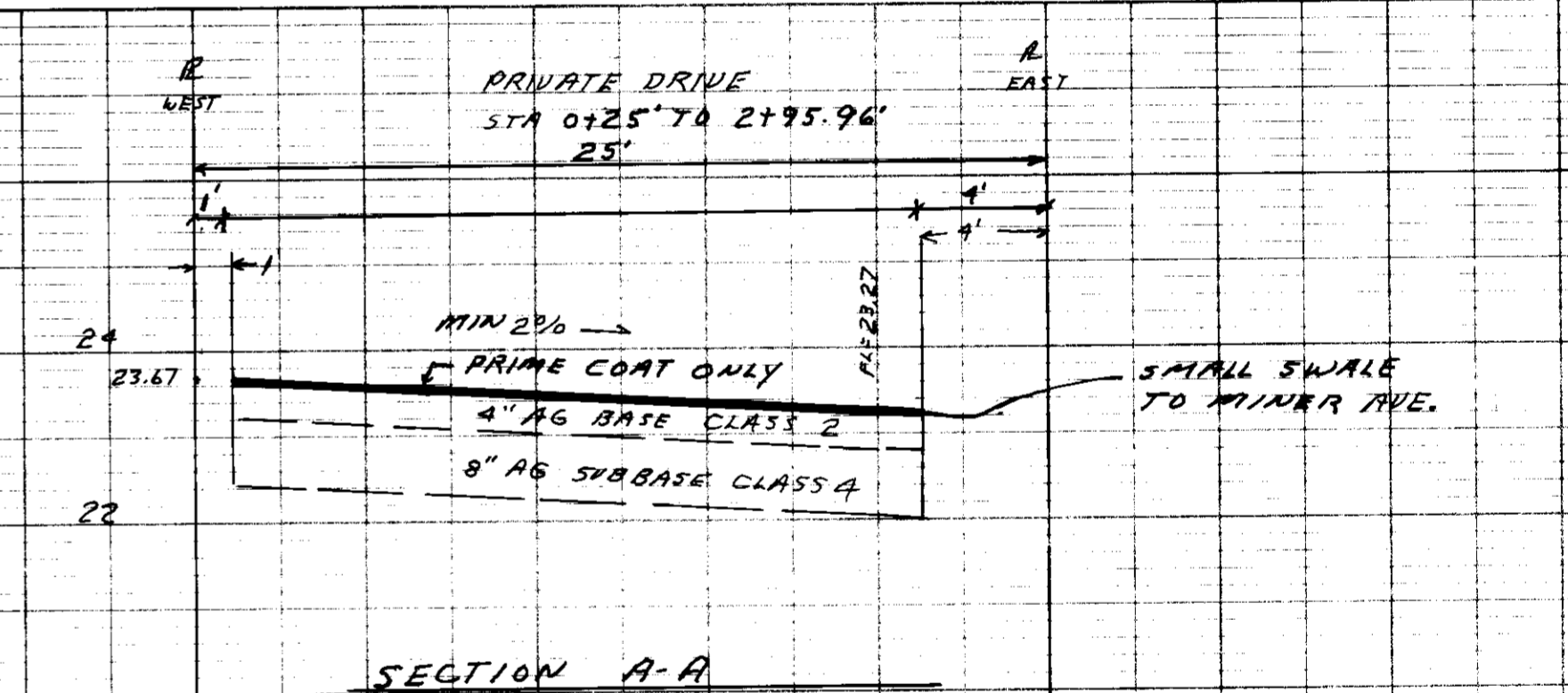
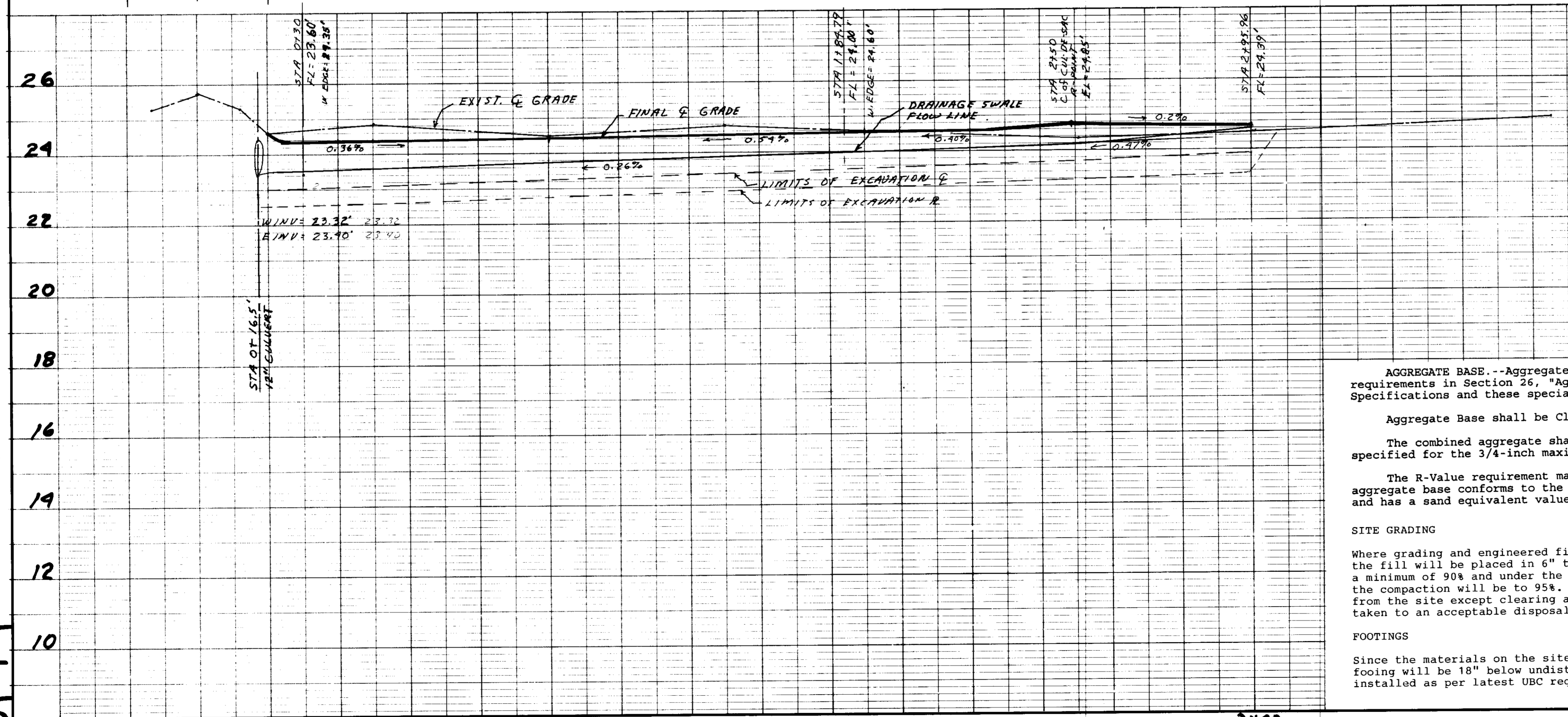
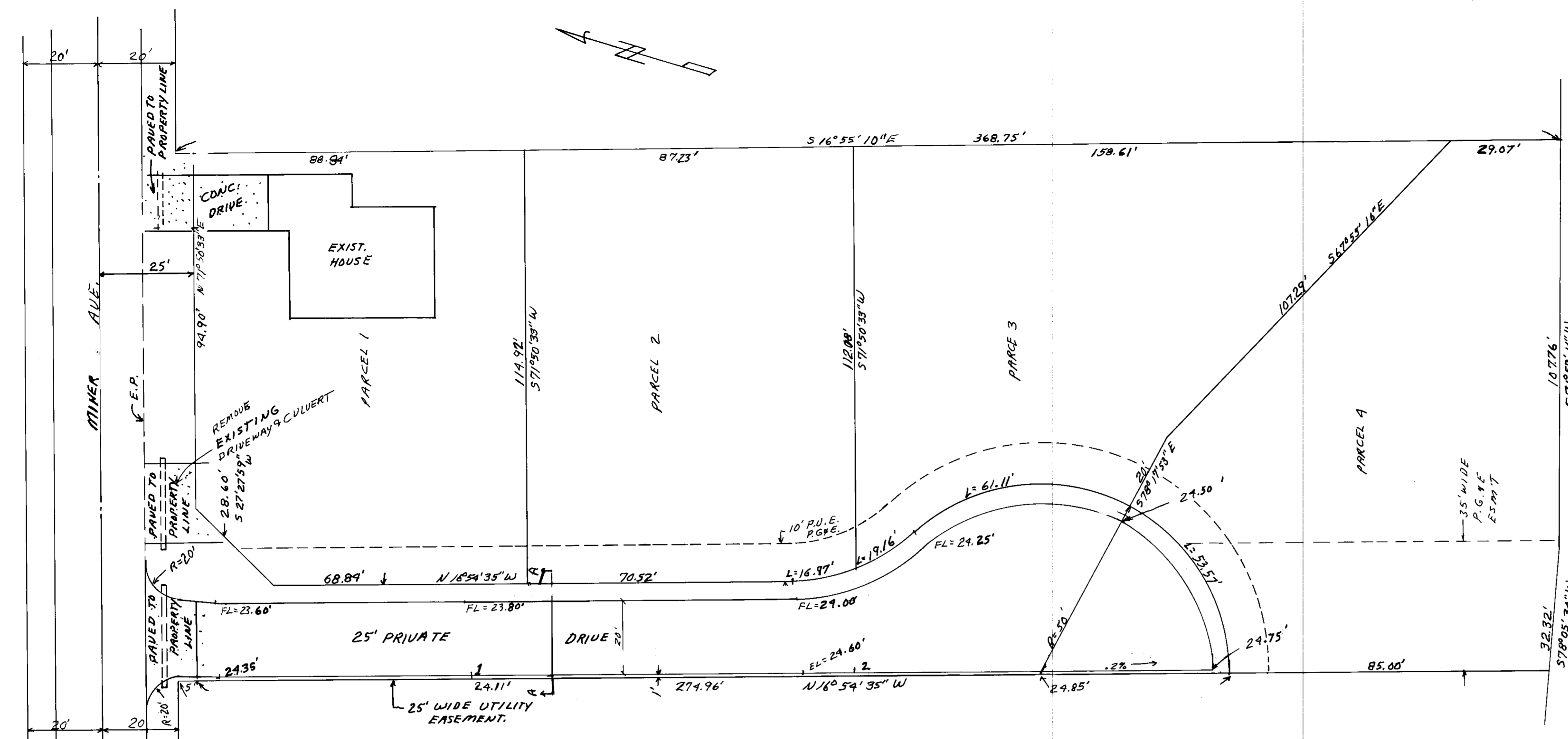
LIQUID ASPHALT (PRIME COAT).--Liquid Asphalt (Prime Coat) shall conform to the requirements in Sections 39, "Asphalt Concrete," and 93, "Liquid Asphalts," of the Standard Specifications and these special provisions.

Liquid asphalt shall be grade SC-70 or SC-250 and shall be applied at the approximate total rate of 0.25 gallon per square yard in one application. The grade and exact rate of application will be determined by the Engineer and the Director.

Liquid asphalt shall not be applied when the atmospheric temperature is below 50° F.

At locations where public traffic is being routed over the roadbed to be treated, the prime coat shall not be applied to more than one-half the width of the traveled way at a time, and the remaining width shall be kept free of obstructions and open for use by public traffic until the treatment first applied is ready for use by public traffic.

Liquid asphalt shall not be applied until a minimum of 24 hours after the County has accepted the aggregate base for surface tolerances and compaction requirements.



AGGREGATE BASE.--Aggregate base shall conform to the requirements in Section 26, "Aggregate Bases," of the Standard Specifications and these special provisions.

Aggregate Base shall be Class 2. The combined aggregate shall conform to the grading specified for the 3/4-inch maximum aggregate.

The R-Value requirement may be waived, provided the aggregate base conforms to the specified grading and durability and has a sand equivalent value of 33 or more.

SITE GRADING

Where grading and engineered fill is required on the lots the fill will be placed in 6" to 8" lifts and compacted to a minimum of 90% and under the footing and building pads the compaction will be to 95%. No materials will be removed from the site except clearing and grubbing waste and shall be taken to an acceptable disposal site.

FOOTINGS

Since the materials on the site are of expandable soils the footing will be 18" below undisturbed soils and stem walls installed as per latest UBC requirements.

AGGREGATE SUBBASE.--Aggregate subbase shall conform to the requirements in Section 25, "Aggregate Subbases," of the Standard Specifications and these special provisions.

Aggregate subbase shall be Class 4. The percentage composition by weight of Class 4 Aggregate Subbase shall conform to the following grading when determined by Test Method No. Calif. 202:

Sieve Sizes	Percentage Passing
2-1/2	100
No. 200	2 - 35

Class 4 aggregate subbase shall also conform to the quality requirements shown in the following table:

Tests	Test Method No. Calif.	Contract Compliance	Operating Range
Sand Equivalent	217	18	21 Min.
Resistance (R-Value)	301	50	

The R-Value requirement may be waived, provided the aggregate subbase has a sand equivalent value of 23 or more.

SU 3144

FIELD BOOKS		REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	DATA	OWN	CHK	DATE	DATA	OWN	CHK	DATE
DESIGN												BASE				TELE			
STAKING												TOPO				ELEC			
ASBUILT												PROFILE				DESIGN			
CONTRACTOR												SAN SEWER				QUANTITIES			
INSPECTOR												STORM SEWER				CITY CHECK			
												WATER							
												GAS				CODED BY			

GRAPHIC SCALE

ARMSTRONG ENG. & DEVELOP. LTD

3840 N. BRUCE ST

LAS VEGAS, NV 89101

(702) 220-7220

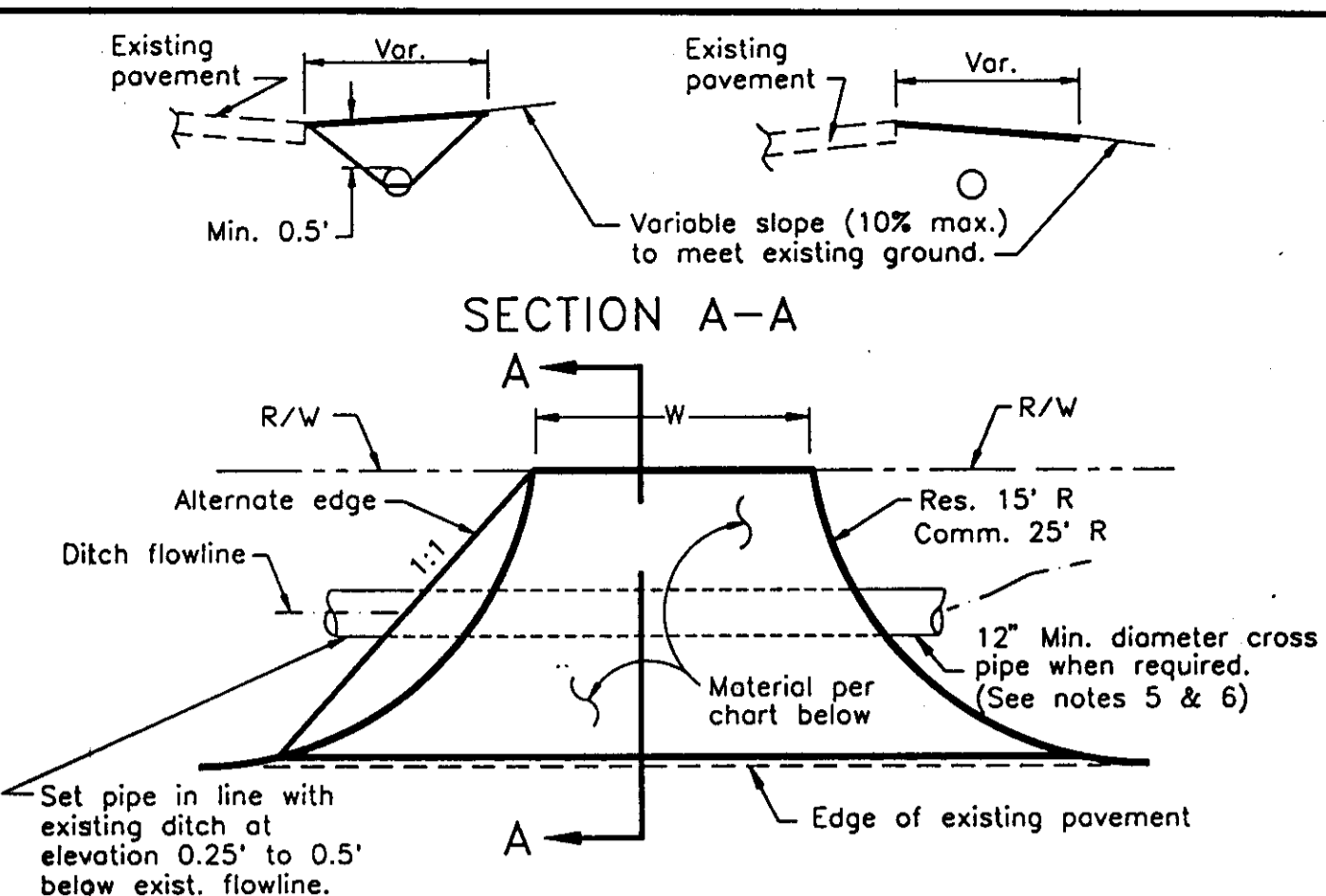
MS-91-16 PARCELS 1-4

STREET & DRAINAGE IMPROVEMENTS

SCALE: HOR. 1"=20' DATE 4-22-96 GRID SHEET 3 of 6

VER. 1"=2' ACCT. NO.

4022C

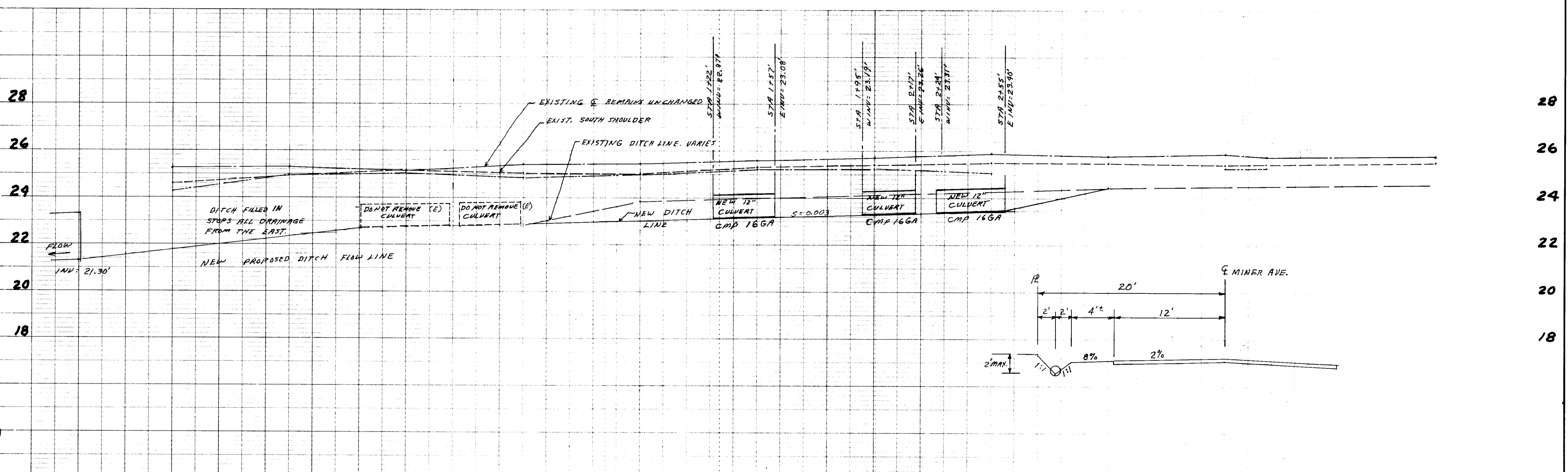
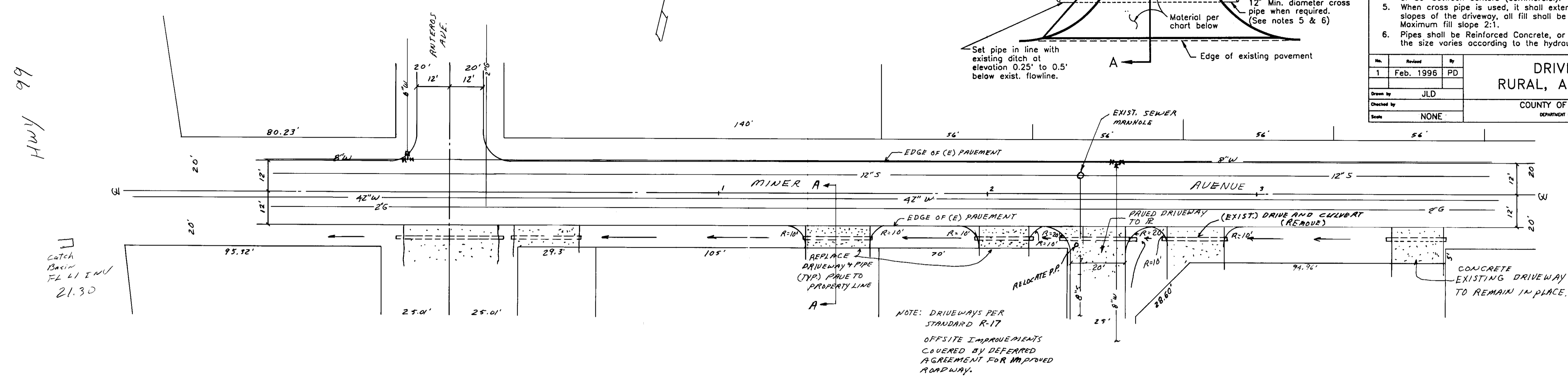


RURAL DRIVEWAY				
TYPE	W		STRUCTURAL SECTION	
	(Min.)	(Max.)	(Min.) AC/AB	(Min.) PCC
RURAL OR TEMP RESIDENTIAL	12'	25'	2" AC / 4" AB	4"
AC TEMP COMMERCIAL TEMP INDUSTRIAL	15'	40'	2" AC / 6" AB	6"

NOTES:

1. FLOWLINE OF PIPE SHALL BE A MIN. OF 3" BELOW DITCH FLOWLINE AND A MAX. OF 1/2 DIAMETER OF PIPE, BELOW DITCH FLOWLINE.
2. At an intersection, no driveway shall be placed within 30' of the point of intersection of the master planned R/W lines.
3. Driveways shall be at right angles to the street.
4. Circle driveways are to be no closer than 75' between centers (residential) or 80' between centers (commercial).
5. When cross pipe is used, it shall extend a minimum of 2' past the toe of fill slopes of the driveway, oil fill shall be compacted to 95% relative compaction. Maximum fill slope 2:1.
6. Pipes shall be Reinforced Concrete, or 0.079" Galvanized Corrugated Steel pipe, the size varies according to the hydraulic requirement.

No.	Revised	By	Approved by
1	Feb. 1996	PD	<i>Henry J. Adams</i>
Drawn by	JLD	COUNTY OF SAN JOAQUIN DEPARTMENT OF PUBLIC WORKS	
Checked by	NONE	Date	SEPT. 1991
Scale	NONE	Drawing No.	R - 17



SU 3145

FIELD BOOKS		REV	DATE	DESCRIPTION	BY	TBM NO.	LOCATION	ELEV.	TBM NO.	LOCATION	ELEV.	DATA	DATE	DATA	DATE
DESIGN												BASE		TELE	
STAKING												TOPO		ELEC	
ASBUILT												PROFILE		DESIGN	
CONTRACTOR												SAN SEWER		QUANTITIES	
INSPECTOR												STORM SEWER		CITY CHECK	
CONSTRUCTION RECORD												WATER			
												GAS			

ARMSTRONG ENG & DEV. LTD.
 3890 N. BRUCE ST
 LAS VEGAS, NV 89101
 We Design To Last (702) 220-7220
 ENGINEERS

REGISTERED PROFESSIONAL ENGINEER
 WILLIAM CLYDE ARMSTRONG
 No. 041615
 Exp. 12/31/92
 CIVIL
 STATE OF CALIFORNIA

MS-91-16 PARCELS 1-9
DRAINAGE - SOUTH SIDE OF MINOR ST. TO HWY 99 R-OF-W.
 SCALE: HOR. 1" = 20' DATE: 4-22-96 GRID: SHEET 2 of 6
 VER. 1" = 2' ACCT. NO.

4012-1C

MINER AVENUE SUBD.

MS-91-16

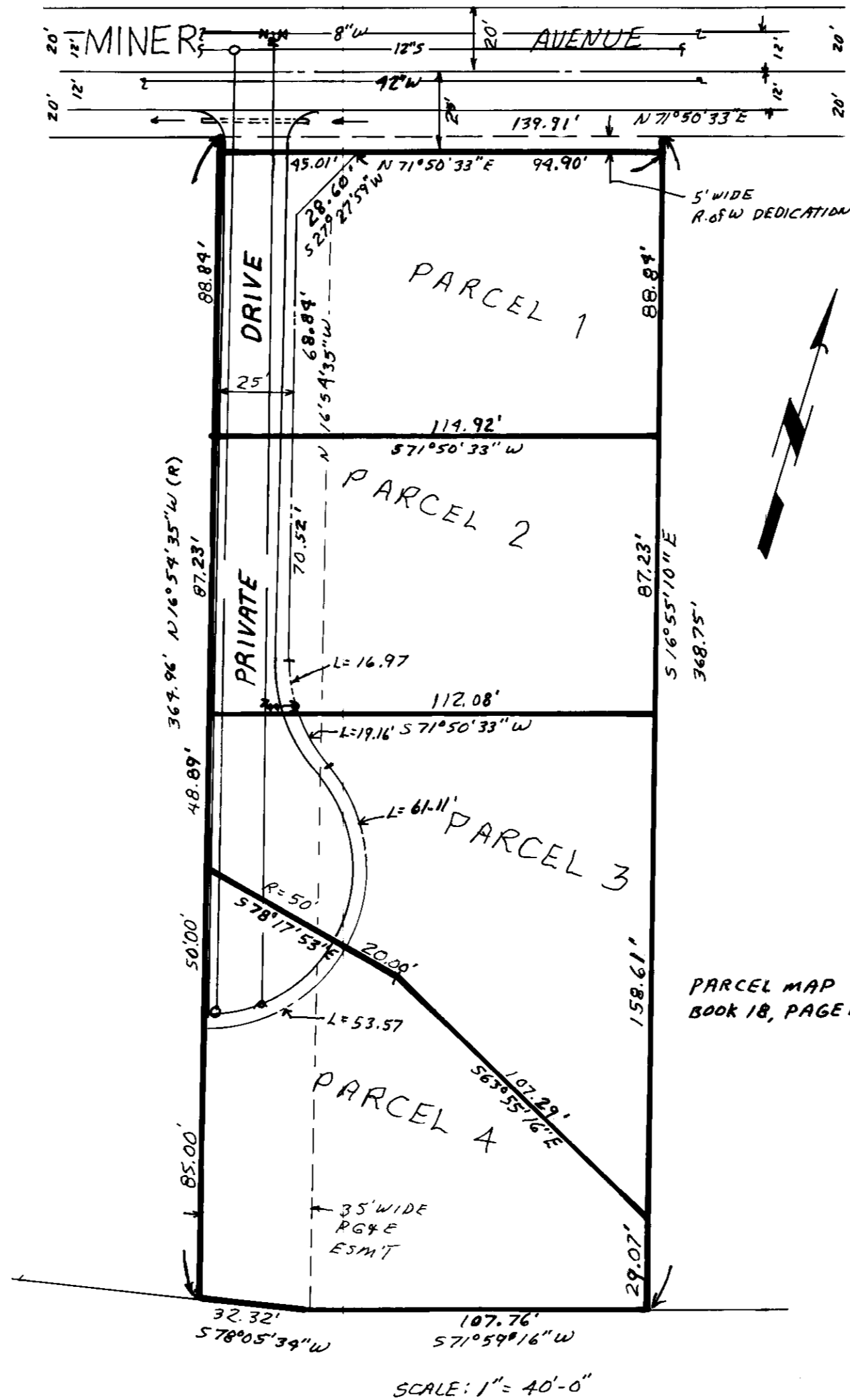
- BENCHMARK OF CITY OF STOCKTON, (6S-9) EL. 28.865 BRASS DISK MARKING CITY OF STOCKTON TRAVERSE CONTROL MONUMENT STAMPED "6S-9" IN 3" DIAMETER PIPE 5' SOUTH OF THE SOUTH RAIL OF THE S.P.T. CO. TRACKS ON THE CENTERLINE OF PAVING OF GERTRUDE AVENUE PROJECTED NORTHERLY.
 - ALL APPLICABLE FEES TO BE PAID AND PERMITS REQUIRED SHALL BE OBTAINED BY THE CONTRACTOR BEFORE COMMENCEMENT OF CONSTRUCTION.
 - ALL WORK SHALL CONFORM TO THE CITY OF STOCKTON AND SAN JOAQUIN COUNTY CONSTRUCTION SPECIFICATIONS AND THE LATEST ADDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND APPLICABLE STANDARD PLANS.
 - CONTRACTOR SHALL INSPECT SITE PRIOR TO BIDDING.
 - PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL PERFORM THE NECESSARY EARTHWORK CALCULATIONS TO DETERMINE THE AMOUNT OF CUT AND FILL AND RESULTANT EXCESS OR SHORTAGE OF DIRT ON SITE, AND NOTIFY THE CIVIL ENGINEER OF HIS RESULTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT THE EARTHWORK SHALL BALANCE ON SITE. EXCESS OF DIRT SHALL BE DISTRIBUTED EVENLY ON ALL LOTS, AFTER GRADING PLAN HAS BEEN REVISED TO ENSURE PROPER DRAINAGE.
 - APPROPRIATE DUST CONTROL TO BE PROVIDED FOR THE ALLEVIATION OR PREVENTION OF A DUST NUISANCE, AT THE CONTRACTOR'S EXPENSE.
 - CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY FOR ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE CIVIL ENGINEER AND HIS FIRM HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
 - REFER TO THE SUBDIVISION MAP OF THIS SUBDIVISION FOR NECESSARY BOUNDARY AND LOT PROPERTY LINE DATA.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATIONS AND PROTECTING ALL UNDERGROUND FACILITIES AFFECTED BY THE WORK AND SHALL CONTACT UNDERGROUND SERVICES ALERT (USA) 48 HOURS PRIOR TO ANY EXCAVATION WORK FOR DETERMINATION AND LOCATION OF UNDERGROUND UTILITIES. (PHONE 1-800-642-2444).
 - THE EXISTING UNDERGROUND UTILITIES SHOWN WERE PLOTTED FROM EXISTING AVAILABLE RECORDS OBTAINED FROM THE UTILITY COMPANIES, NEITHER THE OWNER NOR THE CIVIL ENGINEER SHALL BE HELD RESPONSIBLE FOR THE ACCURACY OF SUCH RECORDS AND DO NOT GUARANTEE THAT ALL UNDERGROUND FACILITIES ARE LOCATED PRECISELY AS SHOWN. PRIOR TO BEGINNING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN WITH ALL UTILITY COMPANIES THE FIELD LOCATION OF THEIR UNDERGROUND FACILITIES. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO START OF ACTUAL EXCAVATION.
 - CONTRACTOR TO EXPOSE SANITARY SEWER AND WATER LINE FOR CONSULTING SURVEYOR'S TO VERIFY LOCATION AND ELEVATION PRIOR TO PLACEMENT OF PIPES. ALL COST OF SUCH EXCAVATION AND BACKFILL SHALL BE INCLUDED IN THE PRICE PAID FOR VARIOUS ITEMS OF WORK.
 - ARMSTRONG ENGINEERING & DEVELOPMENT LTD., CIVIL ENGINEERS, SHALL SET ALL SURVEY CONTROLS AND CONSTRUCTION STAKES AS NECESSARY FOR COMPLETION OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL SURVEY AND CONSTRUCTION STAKES. SURVEY AND CONSTRUCTION STAKES THAT ARE LOST OR DESTROYED DUE TO CONTRACTOR'S NEGLIGENCE WILL BE SET BY THE CIVIL ENGINEER AT THE CONTRACTOR'S EXPENSE. CIVIL ENGINEER ASSUMES NO RESPONSIBILITY FOR ANY WORK IF STAKED BY OTHERS.
 - CONTRACTOR SHALL GIVE CIVIL ENGINEER A MINIMUM OF 48 HOURS NOTIFICATION PRIOR TO ANY AND ALL STAKING, INCLUDING UTILITIES.
 - PRIOR TO ANY CORRECTIVE ACTION BY THE CONTRACTOR WHICH IS NECESSARY DUE TO STAKING ERRORS, THE CONTRACTOR SHALL NOTIFY THE CIVIL ENGINEER FOR RESTAKING AND VERIFICATION OF PREVIOUS STAKING. SHOULD ANY CORRECTIVE WORK BE DONE PRIOR TO NOTIFICATION, THE CIVIL ENGINEER ASSUMES NO LIABILITY FOR THE COSTS INCURRED FOR THIS WORK.
 - CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE CIVIL ENGINEER OR OWNER AND APPROVED BY THE CITY OF STOCKTON AND SAN JOAQUIN COUNTY.
 - PAVEMENT WHICH IS TO BE REMOVED SHALL BE SAWCUT ON A NEAT, STRAIGHT LINE AS SHOWN ON STRUCTURAL SECTION DETAIL ON MINER AVENUE.
 - ALL OFFSITE IMPROVEMENTS TO HAVE CONTROL STAKING PRIOR TO CONSTRUCTION BEGINNING.
 - UPON COMPLETION OF BACKFILL, PRIOR TO PAVING, THE CITY MAY INSPECT THE SANITARY SEWER LINES WITH CLOSED CIRCUIT TELEVISION EQUIPMENT. DEFECTIVE WORK SHALL BE REPAIRED BY THE CONTRACTOR IN A METHOD APPROVED BY THE CITY PRIOR TO FINAL PAVING. TELEVISION LOGS WILL BE MADE AVAILABLE TO THE CONTRACTOR FOR REVIEW.
 - ALL MANHOLE RIMS, DROP INLET GRATES, SANITARY SEWER CLEAN OUT, WATER VALVE BOX AND SURVEY MONUMENT COVERS SHALL BE ADJUSTED TO FINISH GRADE TO MATCH THE CROSS SLOPE.
 - TRAFFIC CONTROL ON MINER AVENUE SHALL BE MAINTAINED DURING THE TIME OF CONSTRUCTION. A TRAFFIC PLAN SHALL BE SUBMITTED TO THE S.J.C. PUBLIC WORKS TRAFFIC DEPARTMENT PRIOR TO CONSTRUCTION.
 - ALL TRAFFIC SIGNS AND MARKINGS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND CITY OF STOCKTON AND SAN JOAQUIN COUNTY STANDARDS.
 - CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY FOR ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS, THE COUNTY OF SAN JOAQUIN, AND CITY OF STOCKTON, ITS ELECTED OFFICIALS, OFFICERS, EMPLOYEES, AND AGENTS FROM ANY AND ALL CLAIMS, COSTS OF LITIGATION, DAMAGES AND ATTORNEY'S FEES, FOR PERSONAL INJURY OR PROPERTY DAMAGE OF WHATEVER NATURE WHICH ARE CLAIMED TO HAVE OCCURRED DURING THE TERM OF THE PROJECT.
- NOTE:**
 DIRECTOR : DIRECTOR OF PUBLIC WORKS
 CIVIL ENGINEER : ARMSTRONG ENGINEERING & DEVELOPMENT LTD.
 OR ENGINEER
- PUBLIC WORK () TO BE CONTACTED FOR PRE-CONSTRUCTION CONFERENCE PRIOR TO STARTING WORK.
 - ANY EXISTING OVERHEAD UTILITIES SHALL BE RELOCATED UNDERGROUND.
 - ANY ON-SITE WELL OR SUBSURFACE BORINGS SHALL BE PROPERLY ABANDONED IN ACCORDANCE WITH SAN JOAQUIN COUNTY AND CITY OF STOCKTON CODES.
 - ANY EXISTING CONCRETE IRRIGATION LINE ON PROPERTY NEED TO BE IDENTIFIED, REMOVED AND BACKFILLED IN ACCORDANCE WITH THE SOILS REPORT.
 - LOCATION OF WATER AND SEWER SERVICES SHALL BE MARKED ON THE PROPERTY LINE, PER PROVISIONS OF LOS Standard DRAWING No 37, For water by blue paint 2x4.
 - AN ENCROACHMENT PERMIT SHALL BE OBTAINED FROM THE COUNTY OF SAN JOAQUIN DEPARTMENT OF PUBLIC WORKS OR ANY APPLICABLE AGENCIES PRIOR TO THE COMMENCEMENT OF WORK WITHIN EXISTING COUNTY ROADWAYS.
 - TRAFFIC CONTROL MUST BE MAINTAINED WHEN WORKING WITHIN MINER STREET RIGHT-OF-WAY.
 - WORK WITHIN THE PRIVATE DRIVE SHALL MEET LATEST SAN JOAQUIN COUNTY STANDARDS FOR TRENCH & EXCAVATION PROTECTION, EARTHWORK, AGGREGATE BASE, AGGREGATE SUB-BASE, PRIME COAT, SEWER MAIN LINE WITH SERVICES, WATER MAIN LINE EXTENSION, SERVICES & FIRE HYDRANTS
 - ALL SEWER PIPELINES CONSTRUCTED AND THE TRENCH EXCAVATION AND BACKFILL ASSOCIATED WITH IT SHALL CONFORM TO C.O.S. STANDARD SPECIFICATIONS AND STANDARD PLANS.

ABBREVIATIONS

AB	AGGREGATE BASE	N	NORTH
AC	ASPHALT CONCRETE	NO	NUMBER
ACP	ASBESTOS CEMENT PIPE	OD	OUTSIDE DIAMETER
ASB	AGGREGATE SUB-BASE	OG	ORIGINAL GROUND
AVE	AVENUE	PL	PLACE
BC	BEGINNING OF CURVE	PL OR R	PROPERTY LINE
BK	BACK	PRC	POINT OF REVERSE CURVE
BN	BENCH MARK	PVC	POLYVINYL CHLORIDE
BO	BLOW-OFF	PVMT	PAVEMENT
BVC	BEGINNING OF VERTICAL CURVE	PUE	PUBLIC UTILITIES EASEMENT
CB	CATCH BASIN	PVI	POINT OF VERTICAL CURVE INTERSECTION
C & G	CURB & GUTTER	R	RADIUS OR RESISTANCE VALUE (SOIL)
CNC.	CONCRETE	RCP	REINFORCED CONCRETE PIPE
CL OR C	CENTERLINE	RD	ROAD
CO	CLEAN OUT	RP	RETURN POINT OF CURVE
CR	CURB RETURN	R.R.	RAILROAD
CT	COURT	R/W	RIGHT OF WAY
D	DRAIN	S	SLOPE OR SOUTH
DI	DRAIN INLET	SD	STORM DRAIN
DI	DRAIN INLET	SDI	STORM DRAIN INLET
DPW	DEPARTMENT OF PUBLIC WORKS	SF	SQUARE FEET
DR	DRIVE	SJ	SAN JOAQUIN COUNTY
EC	END OF CURVE	ST	STREET
ELEV	ELEVATION	STA	STATION
B	BASE	STD	STANDARD
EP	EDGE OF PAVEMENT	SW	SIDEWALK
EVC	END OF VERTICAL CURVE	TEM	TEMPORARY BENCH MARK
EXIST	EXISTING	TC	TOP OF CURB
FC	FACE OF CURB	TG	TOP OF GRATE
FG	FINISH GRADE	TI	TRAFFIC INDEX
FH	FIRE HYDRANT	TOD	TOP OF DIKE
FL OR L	FLOW LINE	TYP	TYPICAL
FT	FEET	UG	UNDERGROUND
G	GRADE	U.S.G.S.	UNITED STATES GEOLOGICAL SURVEY
GB	GRADE BREAK	VC	VERTICAL CURVE
HORIZ	HORIZONTAL	VCP	VITRIFIED CLAY PIPE
HP	HIGH POINT	VERT	VERTICAL
ID	INSIDE DIAMETER	W	WATER OR WEST
IN	INCHES	WV	WATER VALVE
INV	INVERT ELEVATION	WID	WIDTH
L	LENGTH OF CURVE	SNS	STREET NAME SIGN
LF	LINEAR FEET	SL	STREET LIGHT
LP	LOW POINT	SS	SANITARY SEWER
MH	MANHOLE	LH	LAMP HOLE
MISC	MISCELLANEOUS	MAX	MAXIMUM
		MIN	MINIMUM
		MON	MONUMENT



VICINITY MAP
N.T.S.



KEY MAP

INDEX

- COVER SHEET
- STREET GRADING & DRAINAGE
- SEWER IMPROVEMENTS
- WATER IMPROVEMENTS
- SITE GRADING PLAN

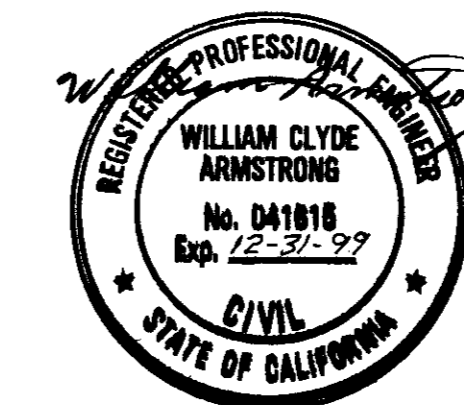
32. CONTRACTOR SHALL CONTACT CITY OF STOCKTON SENIOR CONSTRUCTION ENGINEER AT 937-8279 PRIOR TO THE PRE-CONSTRUCTION MEETING.

LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED	
SD	SD	E	E	U. G. ELECTRIC LINE
SDI	SDI	P	P	POLE & OVERHEAD LINE
MH	MH	S	S	STREET LIGHT (SEE PLAN)
SS	SS	C	C	CURB, GUTTER & SIDEWALKS
CC	CC	CD	CD	CONCRETE DRIVEWAY
W	W	CR	CR	WHEELCHAIR RAMP
WV	WV	M	M	MONUMENTS
WV	WV	NS	NS	STREET NAME SIGN
FH	FH	F	F	FENCE
BO	BO	R	R	TRAFFIC BARRICADES
WM	WM	R-1	R-1	R-VALVE LOCATION
				STOP SIGN

SERVICES

SERVICES	PROVIDED BY
SANITARY SEWER	CITY OF STOCKTON
WATER	CALIF. WATER SERVICE CO.
STORM DRAINAGE	SAN JOAQUIN COUNTY
ELECTRIC & GAS	P.G. & E.
TELEPHONE	PACIFIC BELL
FIRE	EASTSIDE FIRE DISTRICT



COVER SHEET

ARMSTRONG ENGINEERING & DEVELOPMENT, LTD.
 3840 N. BRUCE ST.
 LAS VEGAS, NV 89101
 (702) 220-7220

MS-91-16 PARCELS 1-4

DATE: 9-22-96	DEPARTMENT OF PUBLIC WORKS SAN JOAQUIN COUNTY, CALIF.
SCALE: AS SHOWN	DATE: 12-10-97 R.C. NO: 21752 EXP. DATE: 1/30/98
DESIGNED BY: WCA	APPROVED BY: <i>Donna M. Strata</i>
DRAWN BY: WCA	DIRECTOR OF PUBLIC WORKS
CHECKED BY: WCA	SAN JOAQUIN COUNTY, CA.
AS BUILT BY:	

SAN JOAQUIN COUNTY PUBLIC HEALTH SERVICES	CALIFORNIA WATER SERVICE CO.	EASTSIDE FIRE DISTRICT OK for hydrant location only. DKP	APPROVED BY: <i>Paul M. Sma...</i> DATE: 11/19/97 CITY ENGINEER CITY OF STOCKTON
APPROVED BY: <i>Carl Bergman</i> SIGNATURE	APPROVED BY: <i>...</i> SIGNATURE	APPROVED BY: <i>...</i> SIGNATURE	DATE: 8/11/97

4012C

SU 3146