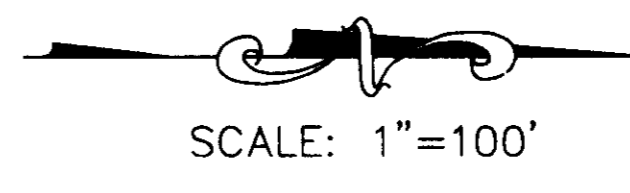
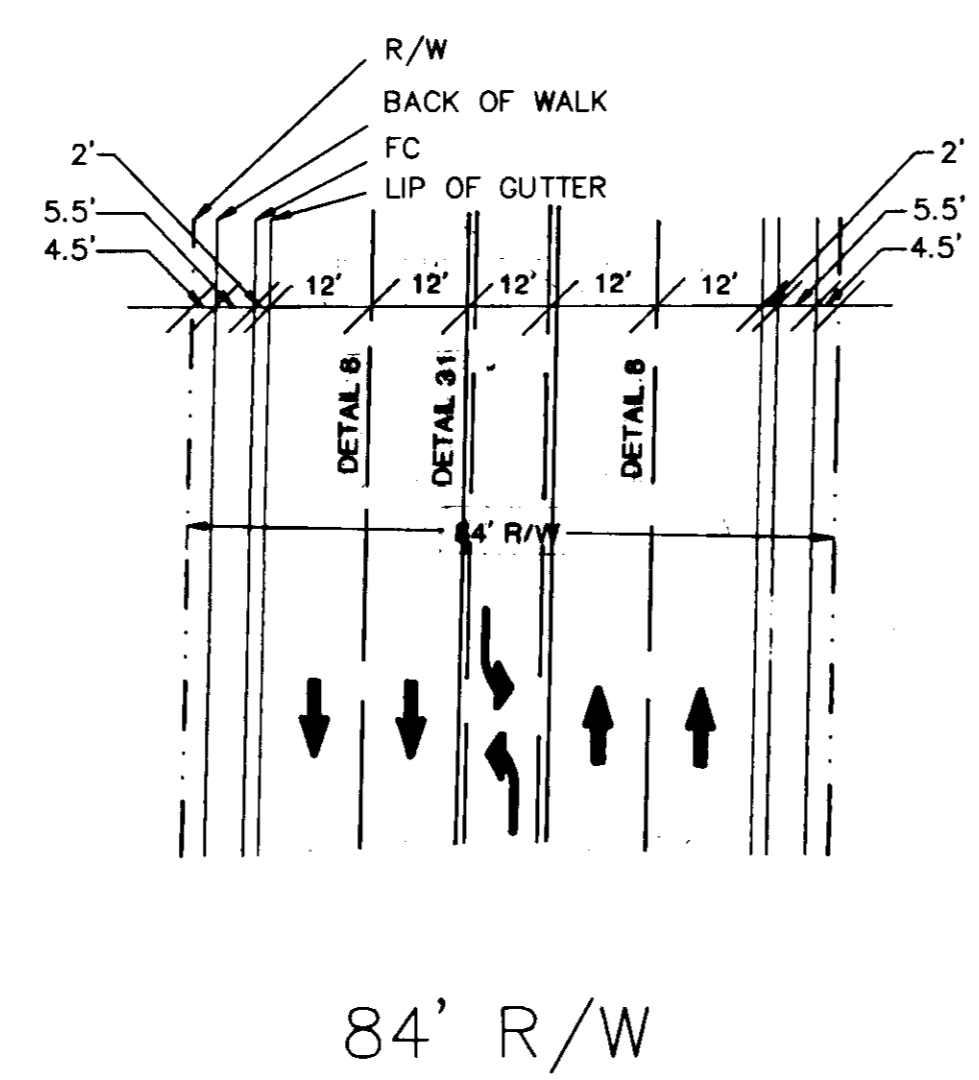
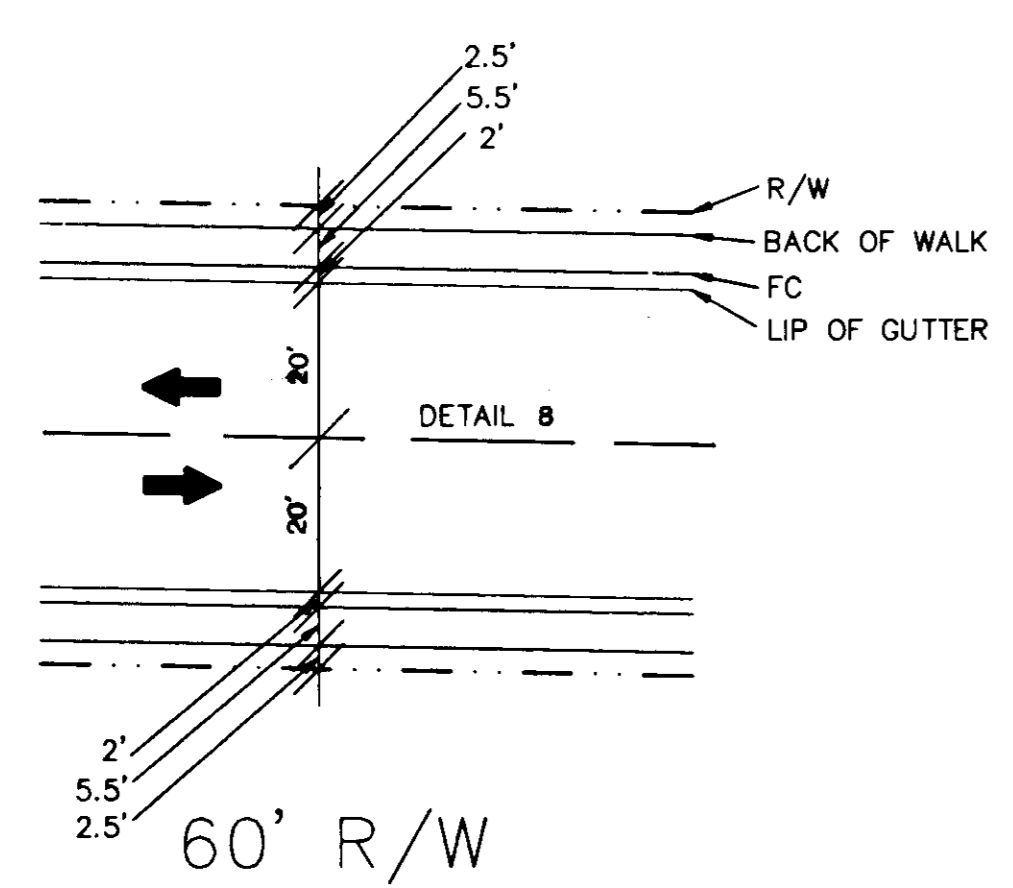
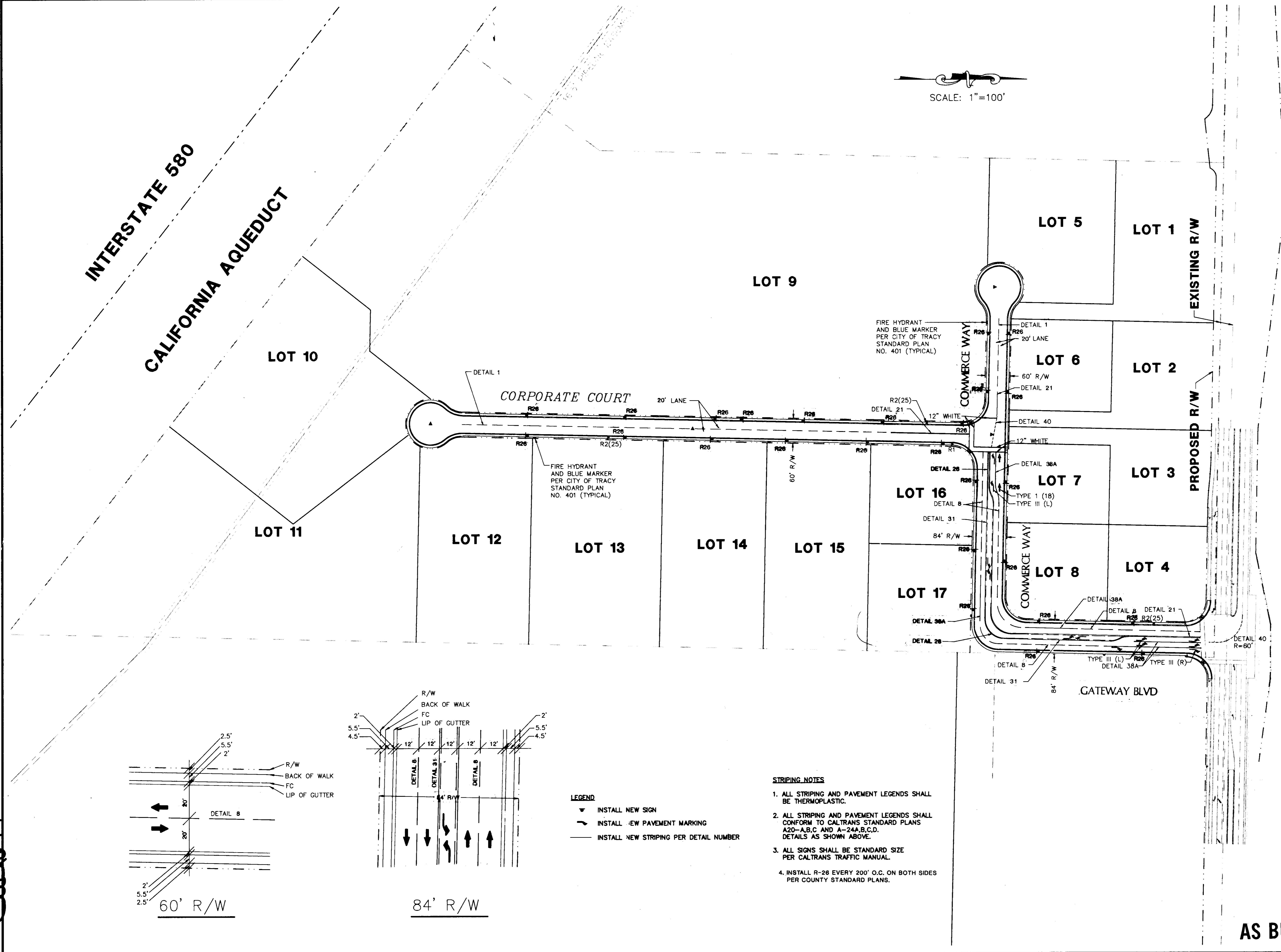


SLIPERS



INTERSTATE 580
CALIFORNIA AQUEDUCT



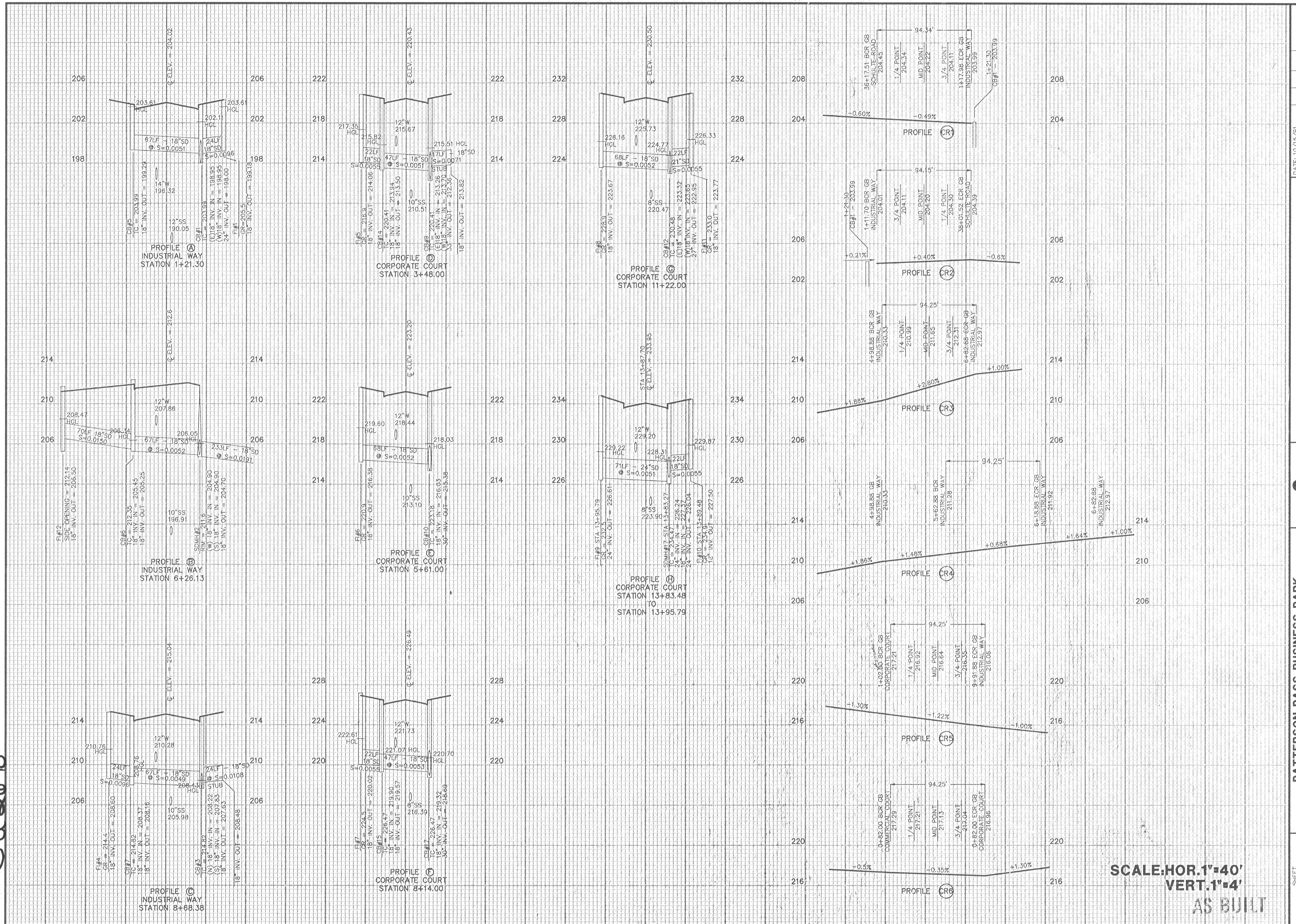
- LEGEND**
- ▼ INSTALL NEW SIGN
 - INSTALL NEW PAVEMENT MARKING
 - INSTALL NEW STRIPING PER DETAIL NUMBER

- STRIPING NOTES**
1. ALL STRIPING AND PAVEMENT LEGENDS SHALL BE THERMOPLASTIC.
 2. ALL STRIPING AND PAVEMENT LEGENDS SHALL CONFORM TO CALTRANS STANDARD PLANS A2D-A,B,C AND A-24A,B,C,D. DETAILS AS SHOWN ABOVE.
 3. ALL SIGNS SHALL BE STANDARD SIZE PER CALTRANS TRAFFIC MANUAL.
 4. INSTALL R-26 EVERY 200' O.C. ON BOTH SIDES PER COUNTY STANDARD PLANS.

AS BUILT

DATE: 10/15/91		DESIGNED: MGH & CSW		NO.		BY		DATE		REVISIONS	
SCALE: 1"=100'		DRAWN: CSW		NO.		BY		DATE		REVISIONS	
Majors Engineering, Inc.		CHECKED: MGH & KCC		NO.		BY		DATE		REVISIONS	
100 PARK PLACE, SUITE 220, SAN RAMON, CA, 94583		PROJ. ENGR: MGH		NO.		BY		DATE		REVISIONS	
(510)820-2423		PROJ. MGR: W.G.		NO.		BY		DATE		REVISIONS	
150 FORD WAY		2535 CAPITOL OAK DR., SUITE 140		NO.		BY		DATE		REVISIONS	
NOVATO, CA 94945		SACRAMENTO, CA 95833		NO.		BY		DATE		REVISIONS	
(415)492-0333		(916)641-7570		NO.		BY		DATE		REVISIONS	
PATTERSON PASS BUSINESS PARK SUBDIVISION OF TRACT NO. 2450 SIGNING AND STRIPING PLAN CALIFORNIA											
SHEET 12		OF 12 SHEETS		M.J.M. JOB NO.: 3296		M.J.M. CADD FILE: 3296IP12					

SU 2678

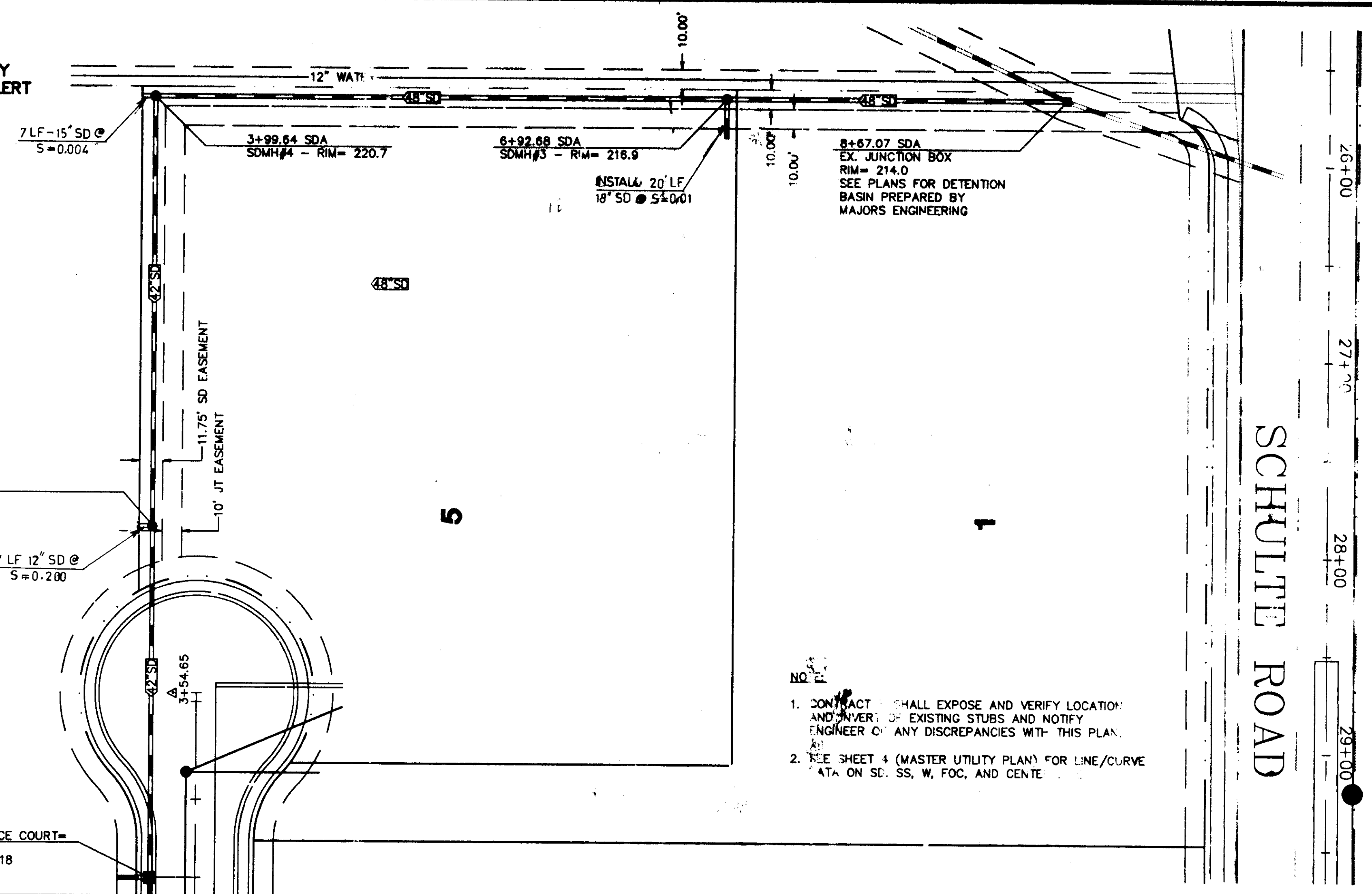
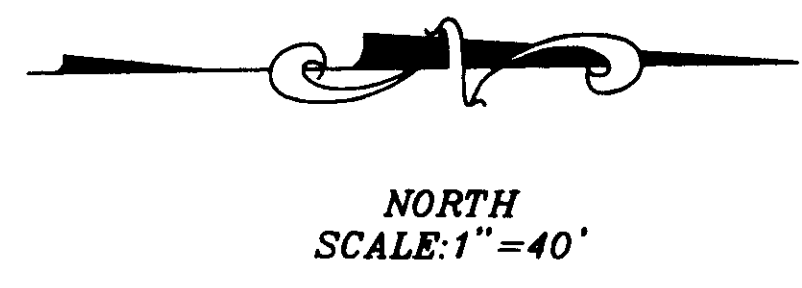


SCALE: HOR. 1"=40'
 VERT. 1"=4'
 AS BUILT

SHEET 11 OF 12		M.A.M. JOB NO.: 3296		M.A.M. CADD FILE: 3296IP11	
PATTERSON PASS BUSINESS PARK SUBDIVISION OF TRACT NO. 2450 CURB RETURN AND STORM DRAIN PROFILES					
CALIFORNIA SAN JOAQUIN COUNTY					
MAJORS ENGINEERING, INC. 100 PARK PLACE, SUITE 220, SAN RAMON, CA 94583 (510) 820-2423		DATE: 10/15/91 SCALE: AS SHOWN DESIGNED: G.S.W. DRAWN: G.S.W. CHECKED: K.C.C./M.G.H. PROJ. ENGR.: M.G.H. PROJ. MGR.: W.G.			
150 FORD WAY NOVATO, CA 94945 (415) 892-0333		2535 CAPITOL OAK DR., SUITE 140 SACRAMENTO, CA 95833 (916) 641-7570			
NO.		BY		DATE	
REVISIONS		NO. BY DATE			

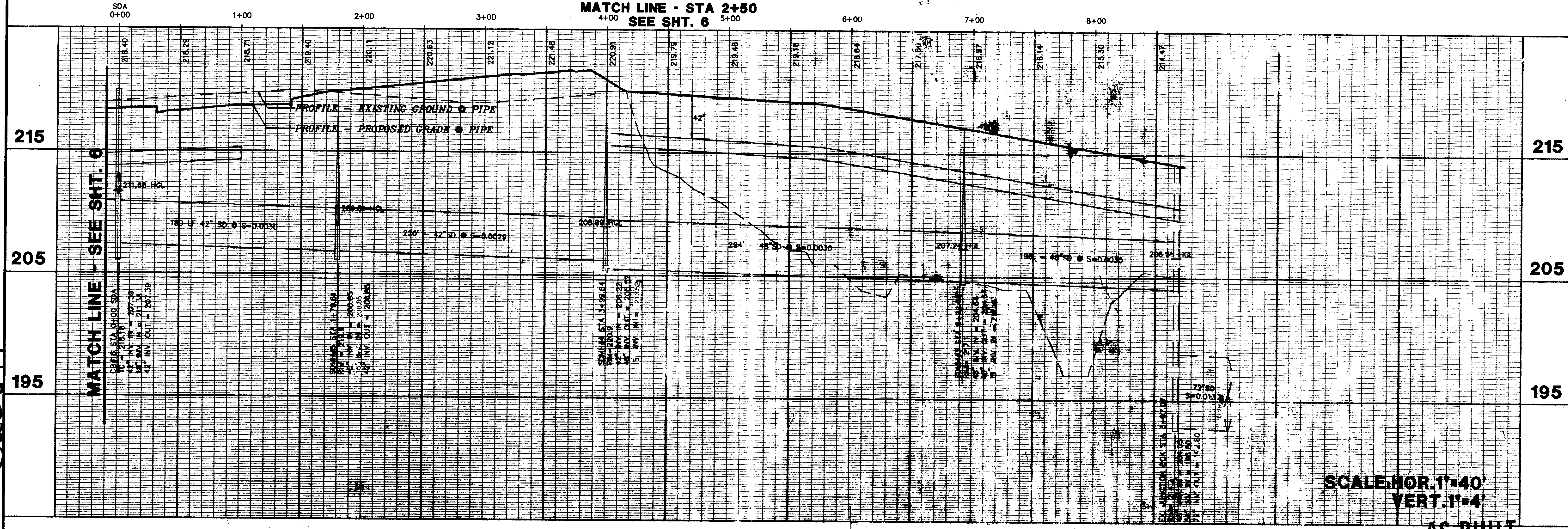


NOTE:
THE CONTRACTOR SHALL NOTIFY
THE UNDERGROUND SERVICE ALERT
AT 800-842-2444 48 HOURS
PRIOR TO ANY EXCAVATION.



- NO. 1
- CONTRACTOR SHALL EXPOSE AND VERIFY LOCATION AND INVERT OF EXISTING STUBS AND NOTIFY ENGINEER OF ANY DISCREPANCIES WITH THIS PLAN.
 - SEE SHEET 4 (MASTER UTILITY PLAN) FOR LINE/CURVE DATA ON SD, SS, W, FOC, AND CENTERLINE.

COMMERCE COURT
MATCH LINE - STA 2+50
SEE SHT. 6



SCALE: HOR. 1"=40'
VERT. 1"=4'
AS BUILT

SU 2479

DATE: 10/15/91		SCALE: AS SHOWN		DESIGNED: G.S.W.		DRAWN: G.S.W.		CHECKED: K.C.C./M.G.H.		PROJ. ENGR: M.G.H.		NO.		BY		DATE		REVISIONS	
Majors Engineering, Inc. 100 PARK PLACE, SUITE 220, SAN RAMON, CA 94583 (510) 820-2423										2535 CAPITOL OAK DR., SUITE 140 SACRAMENTO, CA 95833 (916) 641-7570				PATTERSON PASS BUSINESS PARK SUBDIVISION OF TRACT NO. 2450 IMPROVEMENT PLANS CROSS COUNTRY STORM DRAIN		SAN JOAQUIN COUNTY CALIFORNIA		SHEET 10 OF 12 SHEETS M&M JOB NO: 3296 M&M CAD FILE: 3296(P10)	



NOTE:
THE CONTRACTOR SHALL NOTIFY
THE UNDERGROUND SERVICE ALERT
AT 800-642-2444 48 HOURS
PRIOR TO ANY EXCAVATION.

NORTH
SCALE: 1"=40'

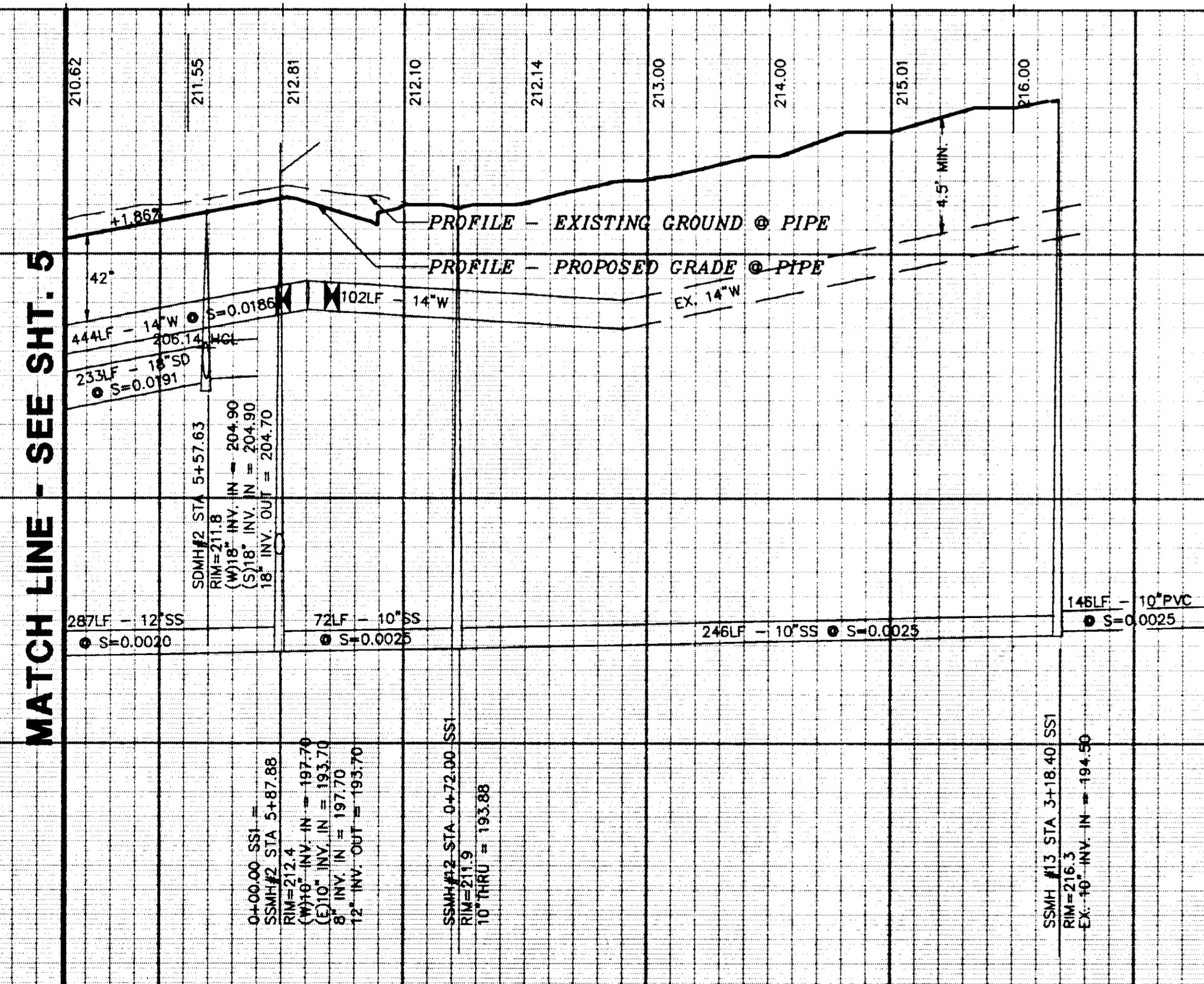
MATCH LINE - STA. 5+00
SEE SHT. 5

GATEWAY BLVD

COMMERCE WAY
MATCH LINE - STA 7+00
SEE SHT. 5

STR. @
5+00

0+00 1+00 2+00 3+00



NOTE:

- CONTRACTOR SHALL EXPOSE AND VERIFY LOCATION AND INVERT OF EXISTING STUBS AND NOTIFY ENGINEER OF ANY DISCREPANCIES WITH THIS PLAN.
- SEE SHEET 4 (MASTER UTILITY PLAN) FOR LINE/CURVE DATA ON SD, SS, W, FOC, AND CENTER LINE.
- PROPOSED GROUND, IMPROVEMENTS AND EXISTING STUBS FOR THE SAFEWAY DISTRIBUTION CENTER AS PER PLANS PREPARED BY SETTER, LEACH AND LINDSTROM, INC. DATED MAY 1, 1990

WAREHOUSE

MH O ON SAFEWAY PLAN

1" DOMESTIC WATER LINE

FIRE SERVICE LINE

EX. DITCH (SEE GRADING PLAN FOR DETAILS)

DATE: 10/15/91	NO.	BY	REVISIONS
SCALE: AS SHOWN			
DESIGNED: G.S.W.			
DRAWN: G.S.W.			
CHECKED: K.C.C./M.G.H.			
PROJ. ENGR.: M.G.H.			
PROJ. MGR.: W.G.			

Majors Engineering, Inc.
100 PARK PLACE, SUITE 220, SAN RAMON, CA 94583
(510)820-2423
150 FORD WAY
NOVA TO, CA 94945
(415)892-0333
2535 CAPITOL OAK DR., SUITE 140
SANTA FE SPRING, CA 92683
(916)941-7570



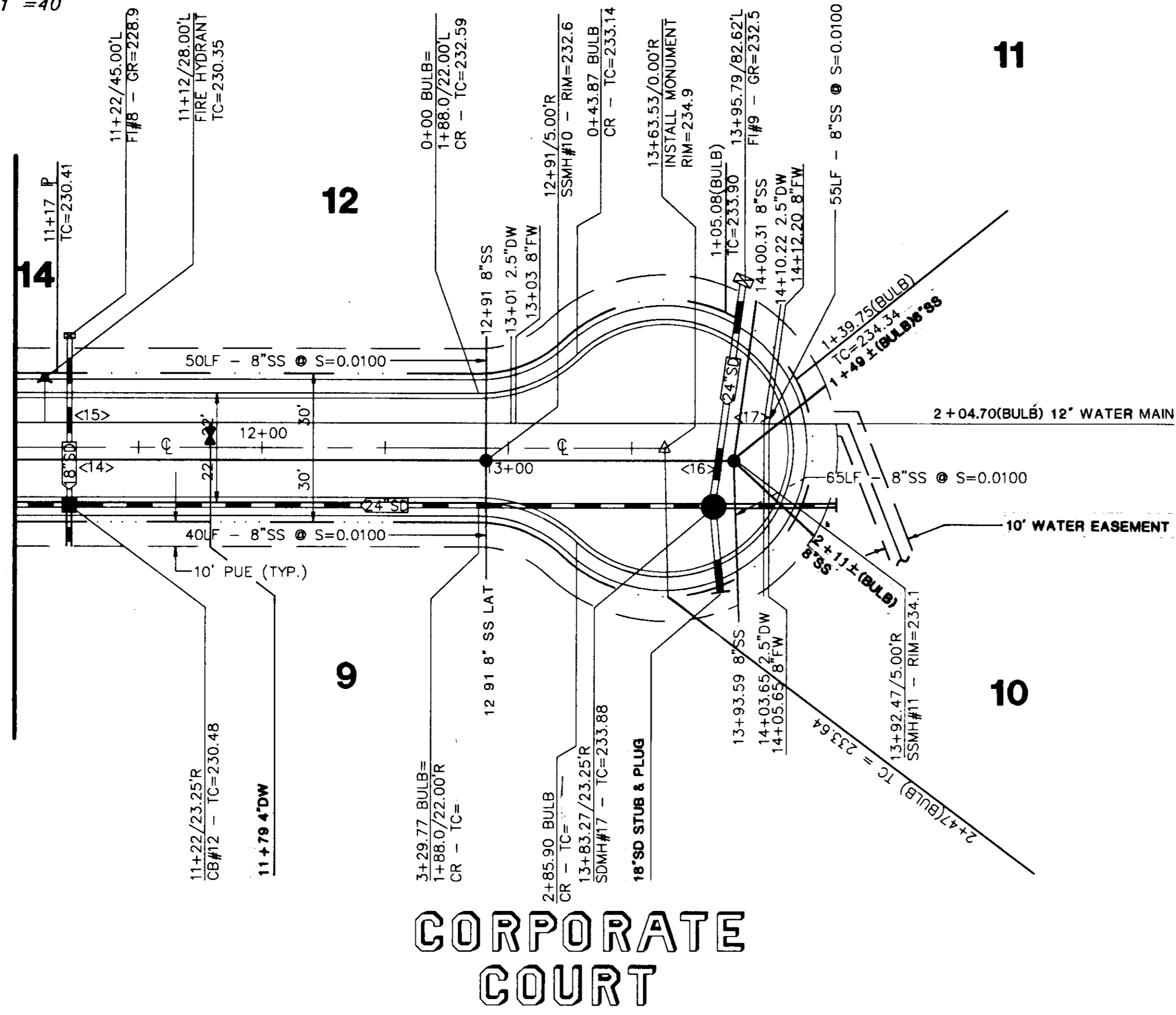
PATTERSON PASS BUSINESS PARK
SUBDIVISION OF TRACT NO. 2450
IMPROVEMENT PLANS
CROSS COUNTRY SS & WATER TO SAFEWAY
SAN JOAQUIN COUNTY CALIFORNIA

AS BUILT
SCALE: HOR. 1"=40'
VERT. 1"=4'

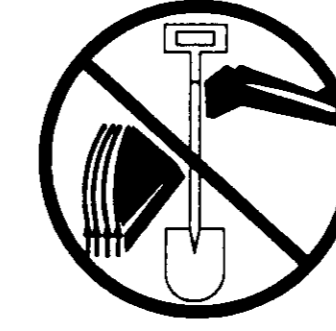
SHEET	9
OF	12
SHEETS	
NUM JOB NO.:	3236
NUM CAD FILE:	3296IP9

NORTH
SCALE: 1" = 40'

MATCH LINE - STA. 11+00
SEE SHT. 7



CORPORATE COURT



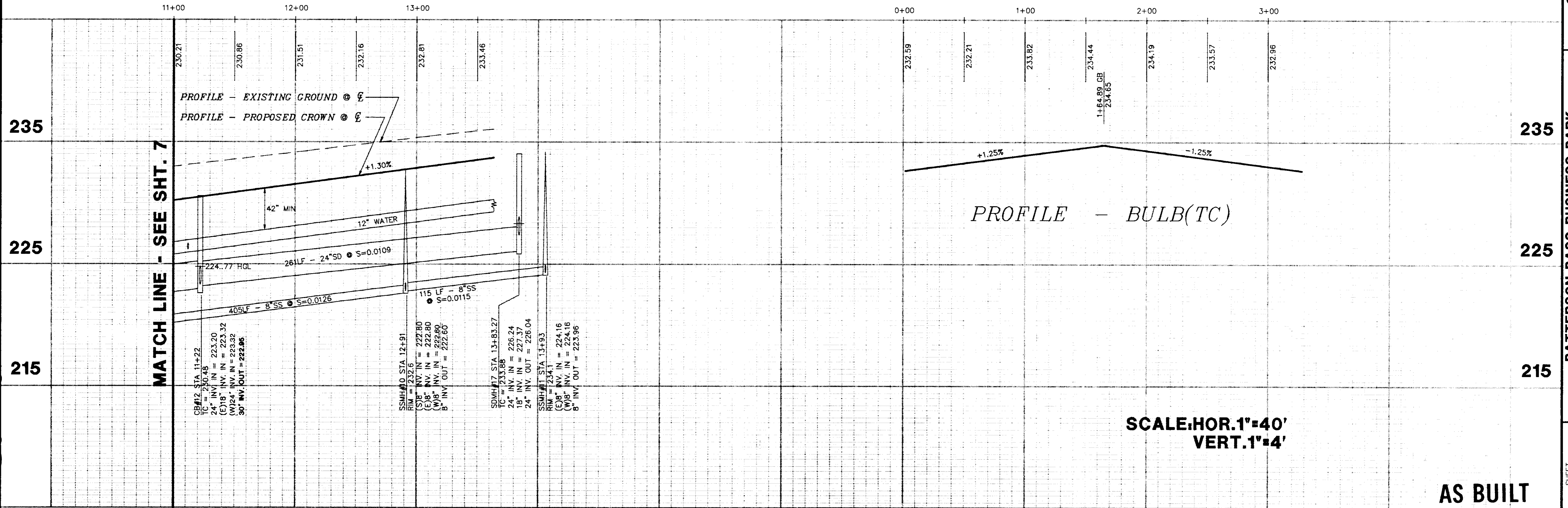
NOTE:
THE CONTRACTOR SHALL NOTIFY
THE UNDERGROUND SERVICE ALERT
AT 800-642-2444 48 HOURS
PRIOR TO ANY EXCAVATION.

CROSSING TABLE

CROSSING	SD	SS	WATER	CLEARANCE
<14>	223.99	220.47		2.66'
<15>	223.49		225.73	0.50'
<16>	226.69	223.90		1.89'
<17>	226.42		229.20	0.50'

NOTE:

- SEE SHEET 4 (MASTER UTILITY PLAN) FOR LINE/CURVE DATA ON SD, SS, W, FOC AND CENTER LINE.
- SEE SHEET 11 FOR STORM DRAIN STREET CROSSING AND CURB RETURN UNWINDS.
- SEE SHEET 4 FOR CONTINUATION OF WATER MAIN.
- SEE SHEET 3 FOR FIRE HYDRANT DETAILS.



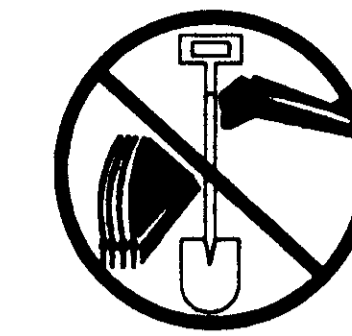
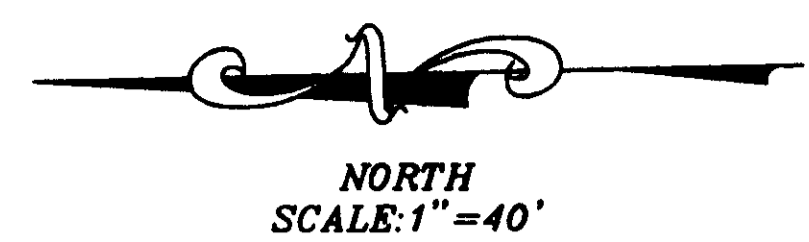
PROFILE - BULB(TC)

SCALE: HOR. 1" = 40'
VERT. 1" = 4'

AS BUILT

3/28/98





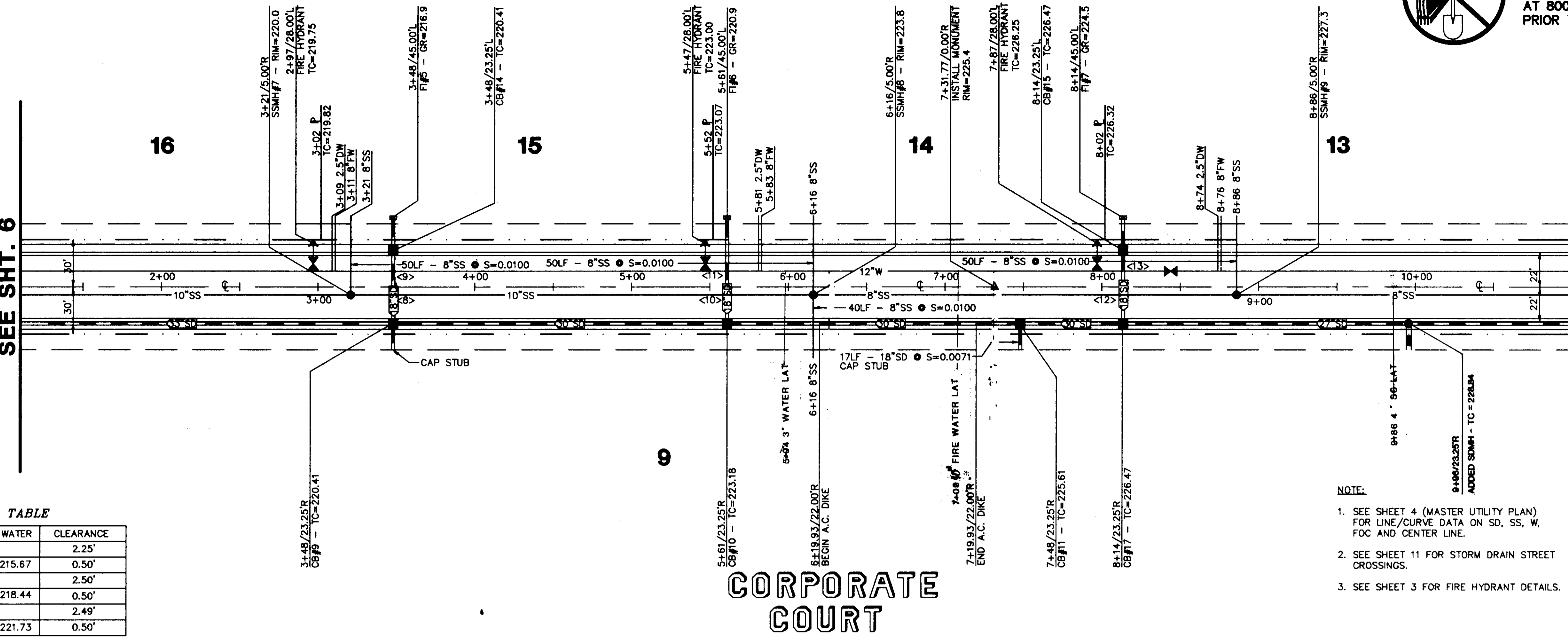
NOTE:
THE CONTRACTOR SHALL NOTIFY
THE UNDERGROUND SERVICE ALERT
AT 800-642-2444 48 HOURS
PRIOR TO ANY EXCAVATION.

MATCH LINE - STA. 1+10
SEE SHT. 6

MATCH LINE - STA. 11+00
SEE SHT. 8

CROSSING TABLE

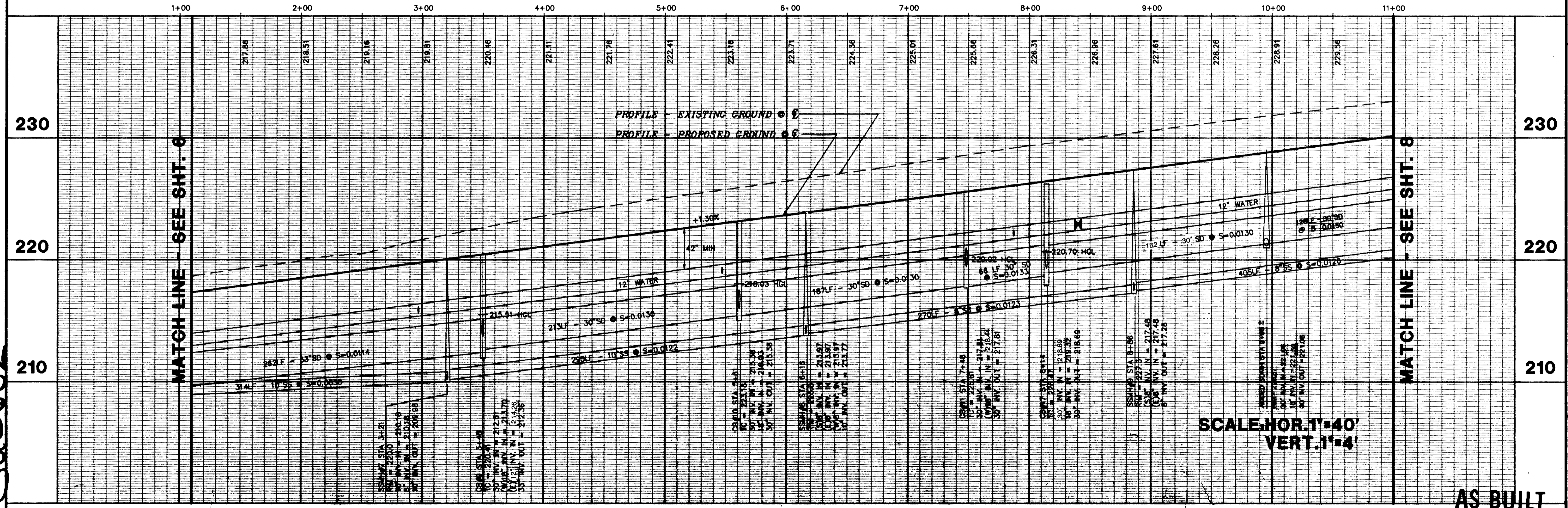
CROSSING	SD	SS	WATER	CLEARANCE
<8>	213.79	210.51		2.25'
<9>	213.43	215.67		0.50'
<10>	216.63	213.10		2.50'
<11>	216.20	218.44		0.50'
<12>	219.74	216.39		2.49'
<13>	219.49	221.73		0.50'



CORPORATE COURT

- NOTE:
- SEE SHEET 4 (MASTER UTILITY PLAN) FOR LINE/CURVE DATA ON SD, SS, W, FOC AND CENTER LINE.
 - SEE SHEET 11 FOR STORM DRAIN STREET CROSSINGS.
 - SEE SHEET 3 FOR FIRE HYDRANT DETAILS.

Sheet 82

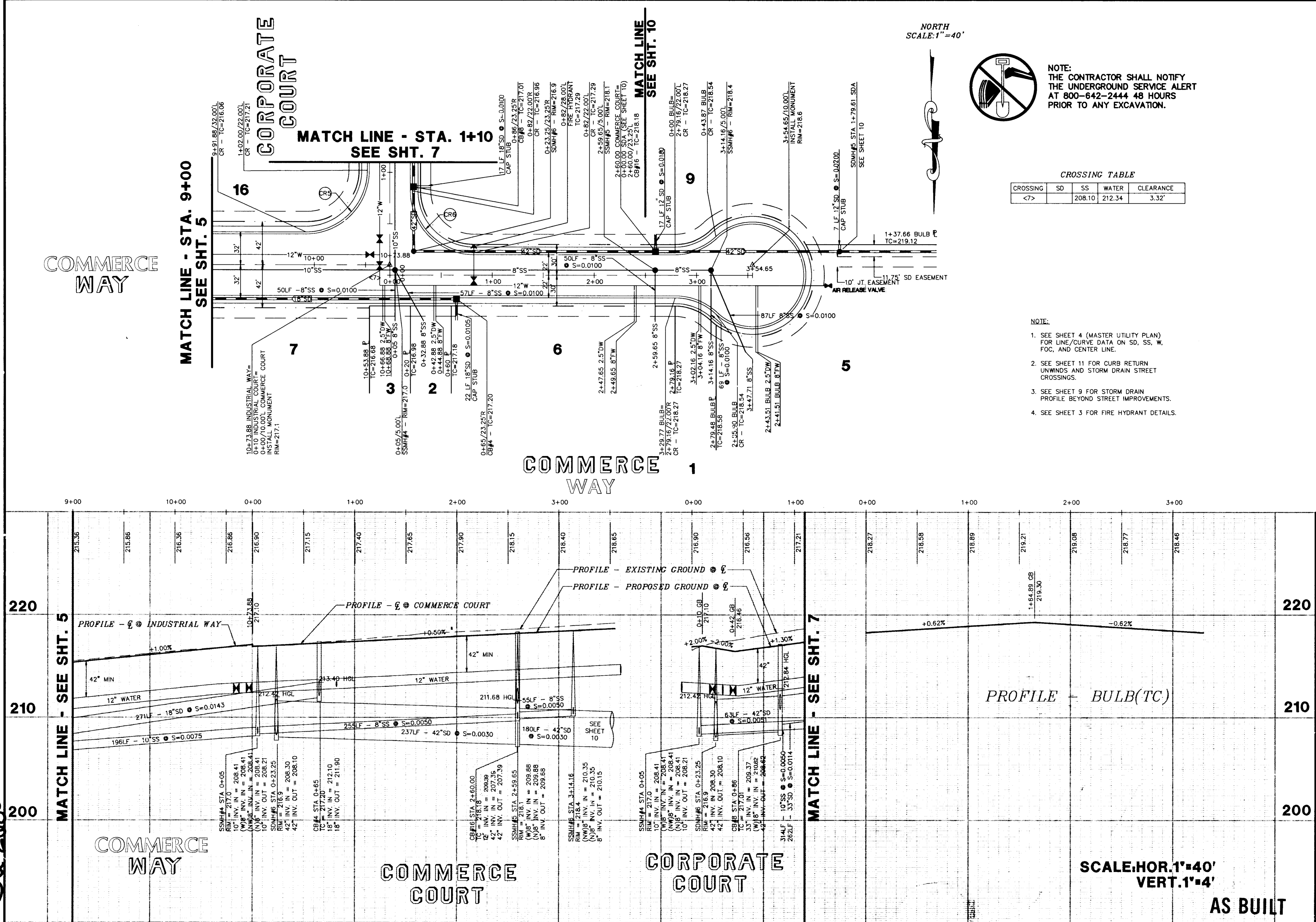


SCALE: HOR. 1"=40'
VERT. 1"=4'

AS BUILT

SHEET 7 OF 12 SHEETS	M.J.M. JOB NO.: 3296	M.J.M. CADD FILE: 3296(F7)	SAN JOAQUIN COUNTY CALIFORNIA	PATTERSON PASS BUSINESS PARK SUBDIVISION OF TRACT NO. 2450 IMPROVEMENT PLANS CORPORATE COURT - STA. 1+00 TO 11+00		Majors Engineering, Inc. 100 PARK PLACE, SUITE 220, SAN RAMON, CA. 94583 (510)820-2423 150 FORD WAY NOVATO, CA. 94945 (415)892-0333	DATE: 10/15/91 SCALE: AS SHOWN DESIGNED: D.E.K. DRAWN: STAFF CHECKED: K.C.C./M.G.H. PROJ. ENGR.: M.G.H. NO. BY DATE REVISIONS
						PROJECT: 150 FORD WAY NOVATO, CA. 94945 (415)892-0333	

Sta 21083



COMMERCE WAY

CORPORATE COURT

COMMERCE WAY

COMMERCE WAY

COMMERCE COURT

CORPORATE COURT

NORTH
SCALE: 1"=40'



NOTE:
THE CONTRACTOR SHALL NOTIFY
THE UNDERGROUND SERVICE ALERT
AT 800-642-2444 48 HOURS
PRIOR TO ANY EXCAVATION.

CROSSING TABLE

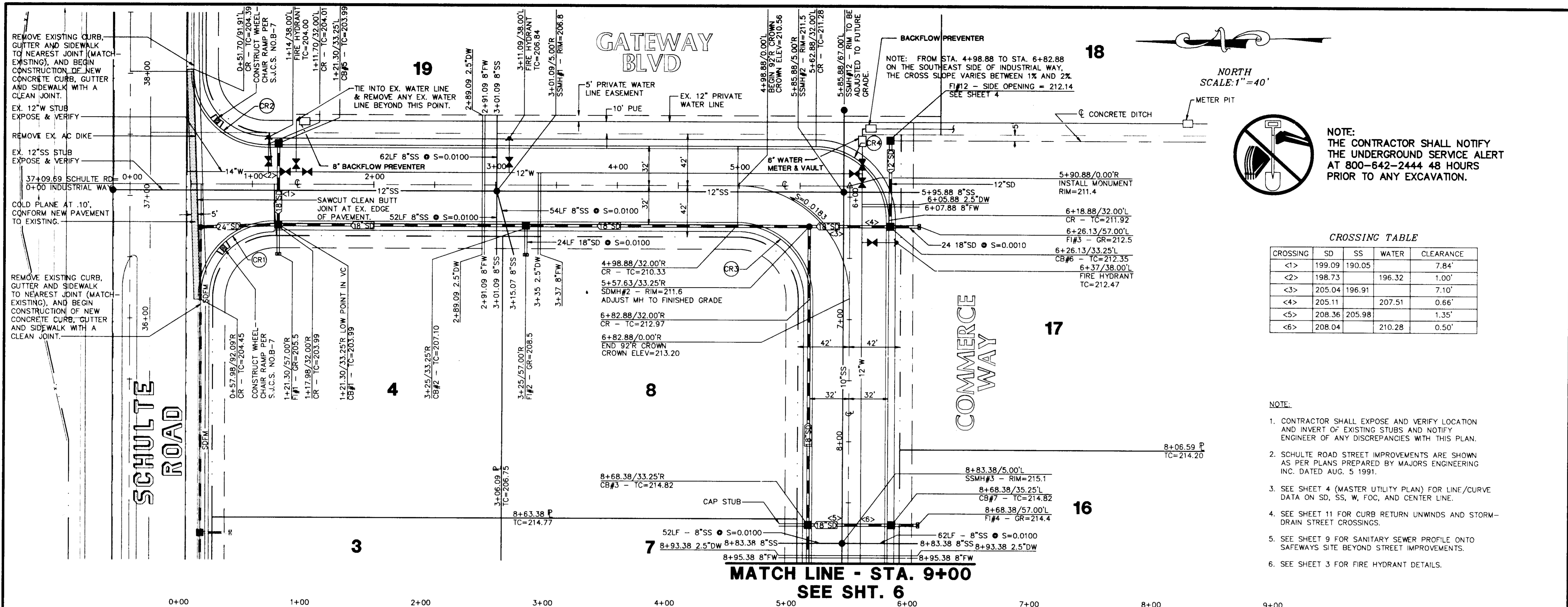
CROSSING	SD	SS	WATER	CLEARANCE
<7>		208.10	212.34	3.32'

- NOTE:
- SEE SHEET 4 (MASTER UTILITY PLAN) FOR LINE/CURVE DATA ON SD, SS, W, FOC, AND CENTER LINE.
 - SEE SHEET 11 FOR CURB RETURN UNWINDS AND STORM DRAIN STREET CROSSINGS.
 - SEE SHEET 9 FOR STORM DRAIN PROFILE BEYOND STREET IMPROVEMENTS.
 - SEE SHEET 3 FOR FIRE HYDRANT DETAILS.

SCALE: HOR. 1"=40'
VERT. 1"=4'

AS BUILT

SHEET 6	OF 12 SHEETS	PLUM JOB NO.: 3296	NUM. CADD FILE: 3296\F6		
<p>PATTERSON PASS BUSINESS PARK SUBDIVISION OF TRACT NO. 2450 IMPROVEMENT PLANS COMMERCE COURT - STA. 9+00 TO END CORPORATE COURT - STA. 0+00 TO 1+00</p>					
<p>Majors Engineering, Inc. 100 PARK PLACE, SUITE 220, SAN RAMON, CA 94583 (510)820-2423</p>				<p>2535 CAPITOL OAK DR, SUITE 140 SACRAMENTO, CA 95833 (916)441-7570</p>	
DATE: 10/15/91	SCALE: AS SHOWN	DESIGNED: D.E.K.	DRAWN: STAFF	CHECKED: K.C.C./M.G.H.	PROJ. ENGR.: M.G.H.
				NO.	BY DATE REVISIONS



NORTH
SCALE: 1" = 40'



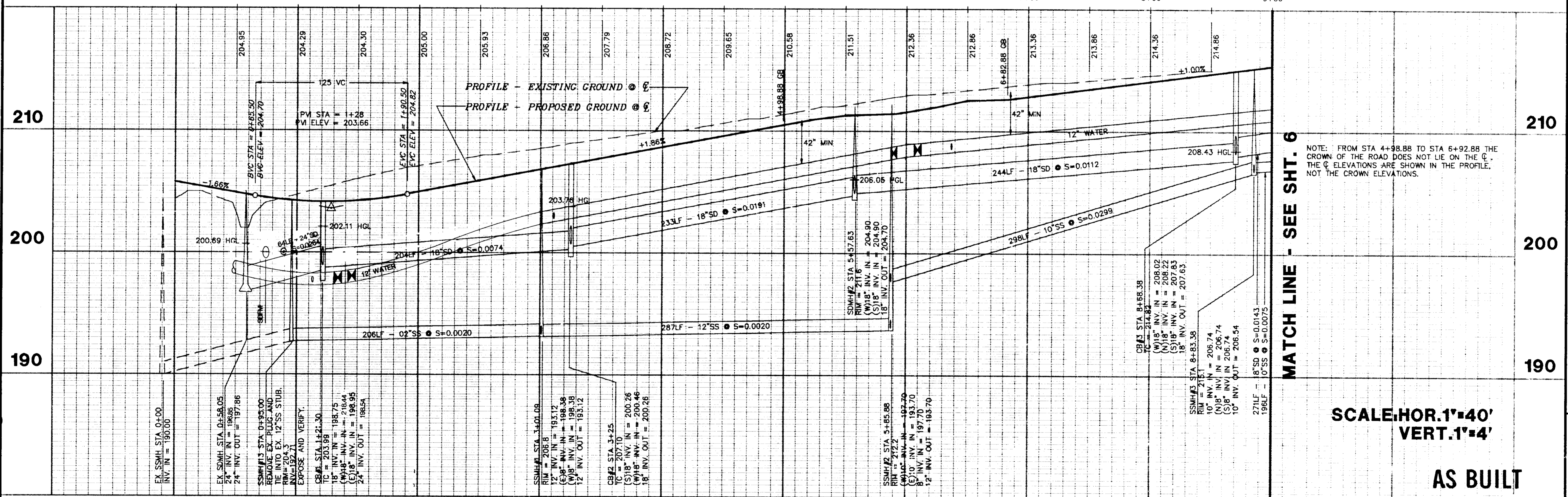
NOTE:
THE CONTRACTOR SHALL NOTIFY
THE UNDERGROUND SERVICE ALERT
AT 800-642-2444 48 HOURS
PRIOR TO ANY EXCAVATION.

CROSSING TABLE

CROSSING	SD	SS	WATER	CLEARANCE
<1>	199.09	190.05		7.84'
<2>	198.73		196.32	1.00'
<3>	205.04	196.91		7.10'
<4>	205.11		207.51	0.66'
<5>	208.36	205.98		1.35'
<6>	208.04		210.28	0.50'

- NOTE:
- CONTRACTOR SHALL EXPOSE AND VERIFY LOCATION AND INVERT OF EXISTING STUBS AND NOTIFY ENGINEER OF ANY DISCREPANCIES WITH THIS PLAN.
 - SCHULTE ROAD STREET IMPROVEMENTS ARE SHOWN AS PER PLANS PREPARED BY MAJORS ENGINEERING INC. DATED AUG. 5 1991.
 - SEE SHEET 4 (MASTER UTILITY PLAN) FOR LINE/CURVE DATA ON SD, SS, W, FOC, AND CENTER LINE.
 - SEE SHEET 11 FOR CURB RETURN UNWINDS AND STORM-DRAIN STREET CROSSINGS.
 - SEE SHEET 9 FOR SANITARY SEWER PROFILE ONTO SAFEWAYS SITE BEYOND STREET IMPROVEMENTS.
 - SEE SHEET 3 FOR FIRE HYDRANT DETAILS.

MATCH LINE - STA. 9+00
SEE SHT. 6



MATCH LINE - SEE SHT. 6

NOTE: FROM STA 4+98.88 TO STA 6+82.88 THE CROWN OF THE ROAD DOES NOT LIE ON THE C.E. THE C.E. ELEVATIONS ARE SHOWN IN THE PROFILE. NOT THE CROWN ELEVATIONS.

SCALE: HOR. 1" = 40'
VERT. 1" = 4'

AS BUILT

SHEET 5 OF 12 SHEETS
 M.J.M. JOB NO.: 3296
 M.J.M. CADD FILE: 3296IP5

PATTERSON PASS BUSINESS PARK
 SUBDIVISION OF TRACT NO. 2450
 IMPROVEMENT PLANS
 INDUSTRIAL WAY - STA. 0+00 TO 9+00
 SAN JOAQUIN COUNTY
 CALIFORNIA

Majors Engineering, Inc.
 100 PARK PLACE, SUITE 220, SAN RAMON, CA 94583
 (510) 820-2423
 150 FORD WAY
 NOVATO, CA 94945
 SACRAMENTO, CA 95831
 (415) 892-0333

DATE: 10/15/91
 SCALE: AS SHOWN
 DESIGNED: E.K.
 DRAWN: STAFF
 CHECKED: K.C.C./M.G.H.
 PROJ. ENGR.: R.G.H.
 PROJ. MGR.: B.G.

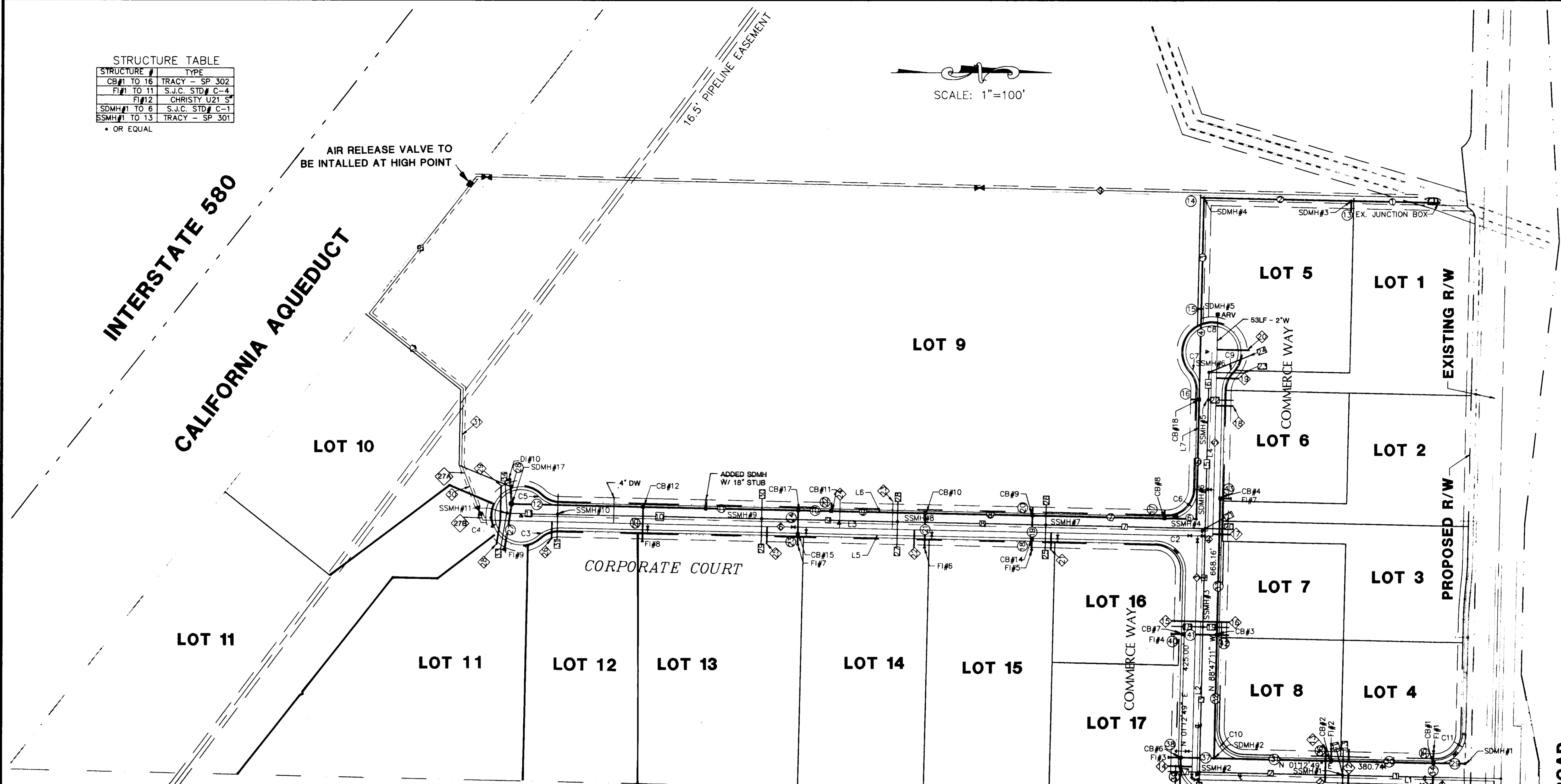
NO. BY DATE
 REVISIONS

STRUCTURE TABLE

STRUCTURE #	TYPE
CB#1 TO 16	TRACY - SP 302
FI#1 TO 11	S.J.C. STD# C-4
FI#12	CHRISTY U21 5"
SDMH#1 TO 6	S.J.C. STD# C-1
SSMH#1 TO 13	TRACY - SP 301

* OR EQUAL

SCALE: 1"=100'



SANITARY SEWER LINE DATA

LINE	LINE	DIRECTION	DISTANCE
12"	10	N 01°12'49" E	210.72'
12"	2	N 01°12'49" E	284.79'
10"	3	N 88°47'11" W	287.50'
10"	4	N 88°47'11" W	195.50'
8"	5	N 88°47'11" W	254.65'
8"	6	N 88°47'11" W	54.50'
10"	7	N 01°12'49" E	316.00'
10"	8	N 01°12'49" E	295.00'
8"	9	S 01°12'49" W	270.00'
8"	10	S 01°12'49" W	405.00'
8"	11	N 01°12'49" E	100.51'
8"	12	N 88°47'11" W	62.00'
8"	13	N 88°47'11" W	52.00'
8"	14	S 76°05'23" W	53.87'
10"	15	N 88°47'11" W	72.00'
10"	16	N 01°12'49" E	249.40'
8"	17	S 01°12'49" W	62.00'
8"	18	S 01°12'49" W	62.00'
8"	19	N 01°12'49" E	52.00'
8"	20	S 01°12'49" W	50.00'
8"	21	N 28°31'52" W	57.59'
8"	22	S 01°12'49" W	50.00'
8"	23	S 01°12'49" W	68.13'
8"	24	N 22°07'54" W	86.86'
8"	25	S 88°47'11" E	50.00'
8"	26	S 88°47'11" E	40.00'
8"	27	S 88°47'11" E	50.00'
8"	28	S 88°47'11" E	40.00'
8"	29	S 88°47'11" E	50.00'
8"	30	S 88°47'11" E	40.00'
8"	31	N 88°47'11" W	50.00'
8"	33	N 88°47'11" W	54.84'
8"	34	N 88°47'11" W	44.84'

WATER LINE DATA

LINE	LINE	DIRECTION	DISTANCE
14"	1	N 01°12'49" E	44.89'
12"	2	N 01°12'49" E	464.98'
12"	3	N 88°47'11" W	483.00'
12"	4	N 01°12'49" E	30.00'
12"	5	N 88°47'11" W	370.58'
12"	6	N 01°12'49" E	1419.30'
12"	7	N 38°14'40" E	300.80'
12"	8	N 51°28'20" W	344.89'
12"	9	S 01°12'51" W	1883.65'
12"	10	S 88°47'11" E	42.00'
2 1/2" & 8"	11	N 01°12'49" E	47.00'
2 1/2" & 8"	12	N 88°47'11" W	67.00'
2 1/2" & 8"	13	N 88°47'11" W	67.00'
2 1/2" & 8"	14	S 01°12'49" W	47.00'
2 1/2" & 8"	15	N 01°12'49" E	47.00'
2 1/2" & 8"	16	N 01°12'49" E	67.00'
2 1/2" & 8"	17	S 01°12'49" W	35.00'
2 1/2" & 8"	18	S 01°12'49" W	35.00'
2 1/2" & 8"	19	N 88°47'11" W	43.62'
2 1/2" & 8"	20	S 01°12'49" W	64.90'
2 1/2" & 8"	21	S 88°47'11" E	35.00'
2 1/2" & 8"	22	S 88°47'11" E	35.00'
2 1/2" & 8"	23	S 88°47'11" E	55.00'
2 1/2" & 8"	24	S 88°47'11" E	55.00'
2 1/2" & 8"	25	S 88°47'11" E	35.00'
2 1/2" & 8"	26	N 88°47'11" W	35.00'
2 1/2" & 8"	27A/27B		2'-18" 8"-22"
2 1/2" & 8"	28	N 88°47'11" W	72.18'
2 1/2" & 8"	29	N 88°47'11" W	65.01'
12"	30	N 68°42'49" E	117.02'
12"	31	N 89°02'14" W	151.96'
12"	32	N 88°47'11" W	76.74'
12"	33	N 01°12'51" E	75'
12"	34	N 46°12'23" E	3.63'
12"	36	N 01°12'51" E	46.37'

STORM DRAIN DATA

DESCRIPTION	LINE	DIRECTION	DISTANCE
48"	1	N 01°12'51" E	174.39'
48"	2	N 01°12'51" E	293.04'
48"	3	S 88°47'11" E	220.03'
42"	4	S 88°47'11" E	179.61'
42"	5	S 88°47'11" E	236.75'
42"	6	S 01°12'49" W	62.75'
33"	7	N 01°12'49" E	262.00'
30"	8	N 01°12'49" E	213.00'
30"	9	S 01°12'49" W	187.00'
18"	10	N 01°12'49" E	65.53'
18"	11	S 88°47'11" W	308.47'
24"	12	S 01°12'49" W	260.26'
18"	13	N 88°47'15" W	20.00'
21"	14	N 01°12'51" E	6.75'
21"	15	N 01°12'49" E	6.75'
18"	16	N 01°12'49" E	16.75'
18"	17	N 88°47'11" W	16.75'
18"	18	N 88°47'11" W	21.75'
18"	19	S 88°47'11" E	46.50'
18"	20	S 88°47'11" E	16.75'
18"	21	S 88°47'11" E	68.25'
27"	22	S 88°47'11" E	16.75'

STORM DRAIN DATA

DESCRIPTION	LINE	DIRECTION	DISTANCE
18"	23	N 88°47'11" W	21.75'
18"	24	N 88°47'11" W	46.50'
18"	25	S 88°47'11" E	68.25'
24"	27	S 78°47'11" E	90.64'
18"	28	S 88°47'11" E	47.30'
24"	29	S 01°12'45" W	63.56'
18"	30	N 01°12'45" E	203.45'
18"	31	S 01°12'45" W	232.56'
18"	32	N 88°47'20" W	244.25'
18"	33	N 88°47'11" W	270.50'
18"	34	N 88°47'15" W	68.50'
18"	35	N 88°47'15" W	23.75'
18"	36	S 88°47'15" E	23.75'
18"	37	N 01°12'45" E	66.50'
18"	38	N 01°12'45" E	23.75'
18"	39	N 88°47'11" W	70.25'
18"	40	N 01°12'45" E	23.75'
18"	41	N 01°12'45" E	66.50'
18"	42	S 01°12'45" W	23.75'
18"	43	N 01°12'49" E	21.75'

LINE TABLE

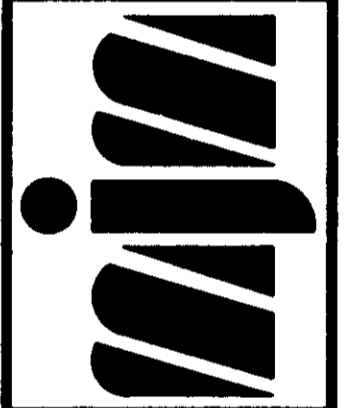
DESCRIPTION	LINE	DIRECTION	DISTANCE
CL INDUSTRIAL	L1	N 01°12'49" E	590.88'
CL INDUSTRIAL	L2	N 88°47'11" W	483.00'
CL CORPORATE	L3	N 01°12'49" E	1363.53'
CL COMMERCE	L4	N 88°47'11" W	354.65'
F/C CORPORATE	L5	N 01°12'49" E	1186.03'
F/C CORPORATE	L6	N 01°12'49" E	1206.03'
F/C COMMERCE	L7	N 88°47'11" W	197.16'

CURVE DATA

DESCRIPTION	CURVE	RADIUS	LENGTH	DELTA
F/C INDUSTRIAL	C1	60.00'	94.25'	90°00'00"
CURB RETURN	C2	60.00'	94.25'	90°00'00"
F/C CORPORATE	C3	58.00'	43.87'	43°20'30"
F/C CORPORATE	C4	52.00'	242.03'	266°41'01"
F/C CORPORATE	C5	58.00'	43.87'	43°20'30"
CURB RETURN	C6	60.00'	94.25'	90°00'00"
F/C COMMERCE	C7	58.00'	43.87'	43°20'30"
F/C COMMERCE	C8	52.00'	242.03'	266°41'01"
F/C COMMERCE	C9	58.00'	43.87'	43°20'30"
F/C INDUSTRIAL	C10	60.00'	94.25'	90°00'00"
CURB RETURN	C11	60.00'	94.34'	90°05'20"
CURB RETURN	C12	60.00'	94.15'	89°54'40"

DATE	BY	DATE	REVISIONS
10/15/91			

Majors Engineering, Inc.
 100 PARK PLACE, SUITE 220, SAN RAMON, CA 94583
 (510)820-2423
 150 FORD WAY
 NOVATO, CA 94945
 (415)892-0333

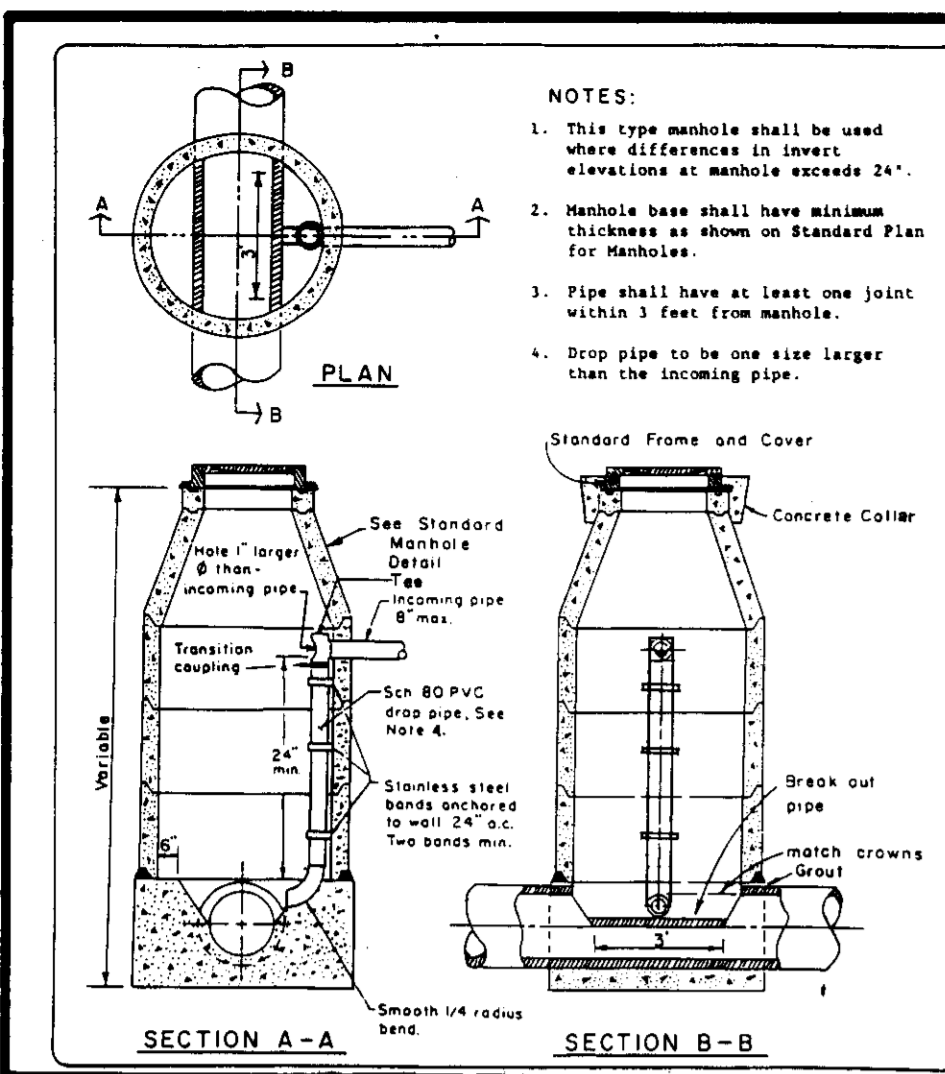


CALIFORNIA

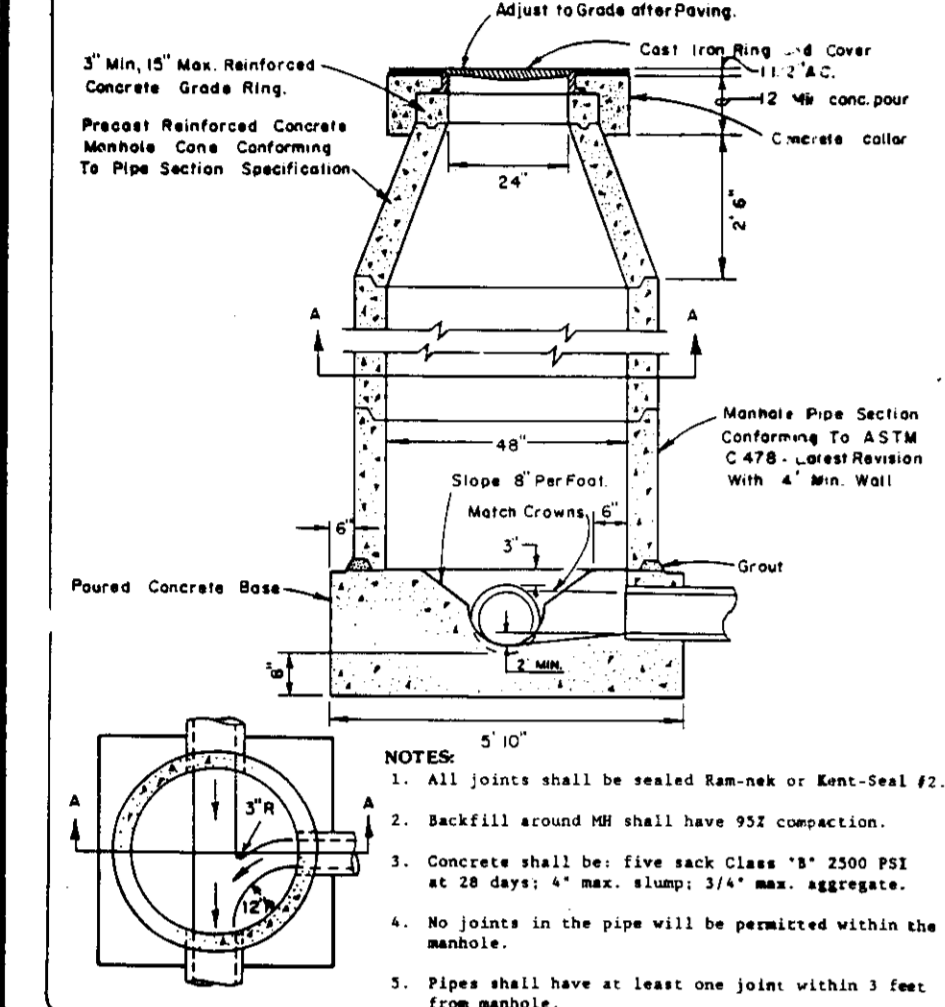
PATTERSON PASS BUSINESS PARK
 SUBDIVISION OF TRACT NO. 2450
MASTER UTILITY PLAN
 SAN JOAQUIN COUNTY

SHEET 4 OF 12 SHEETS
 M.E.M. JOB NO.: 3296
 M.E.M. CADD FILE: 3296(P4)

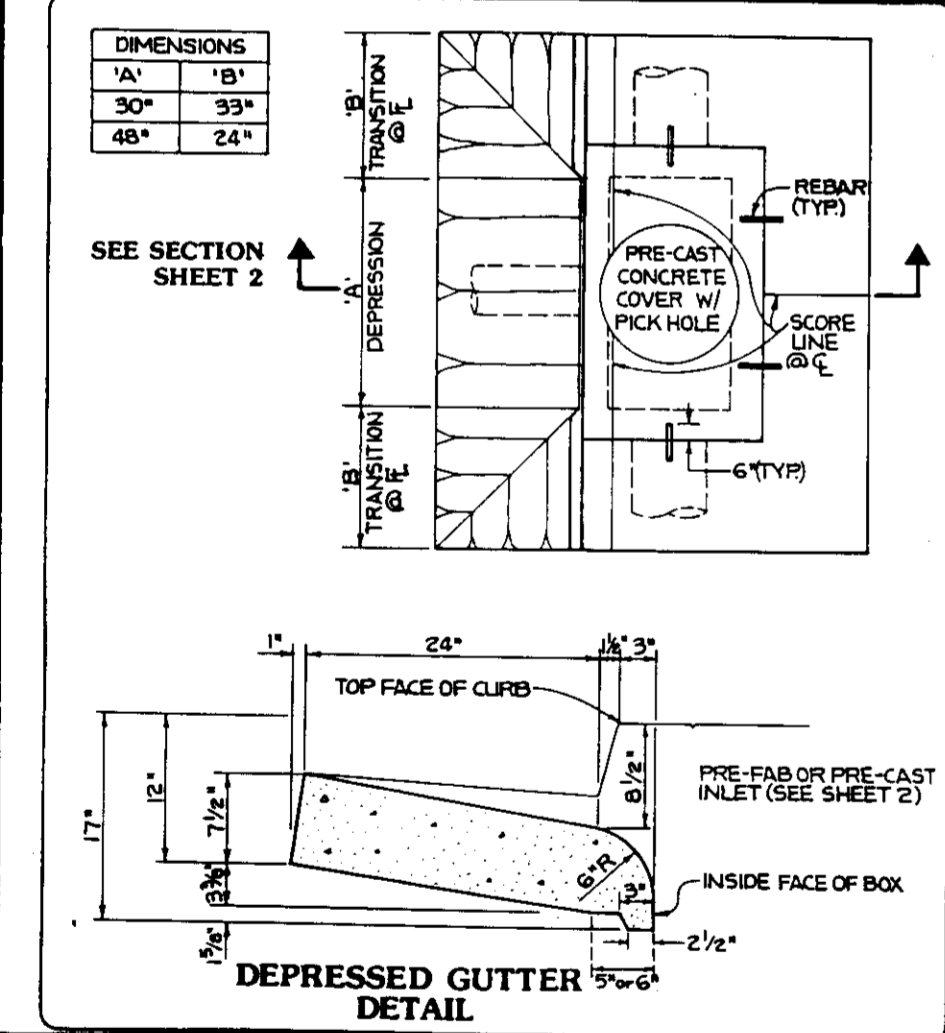
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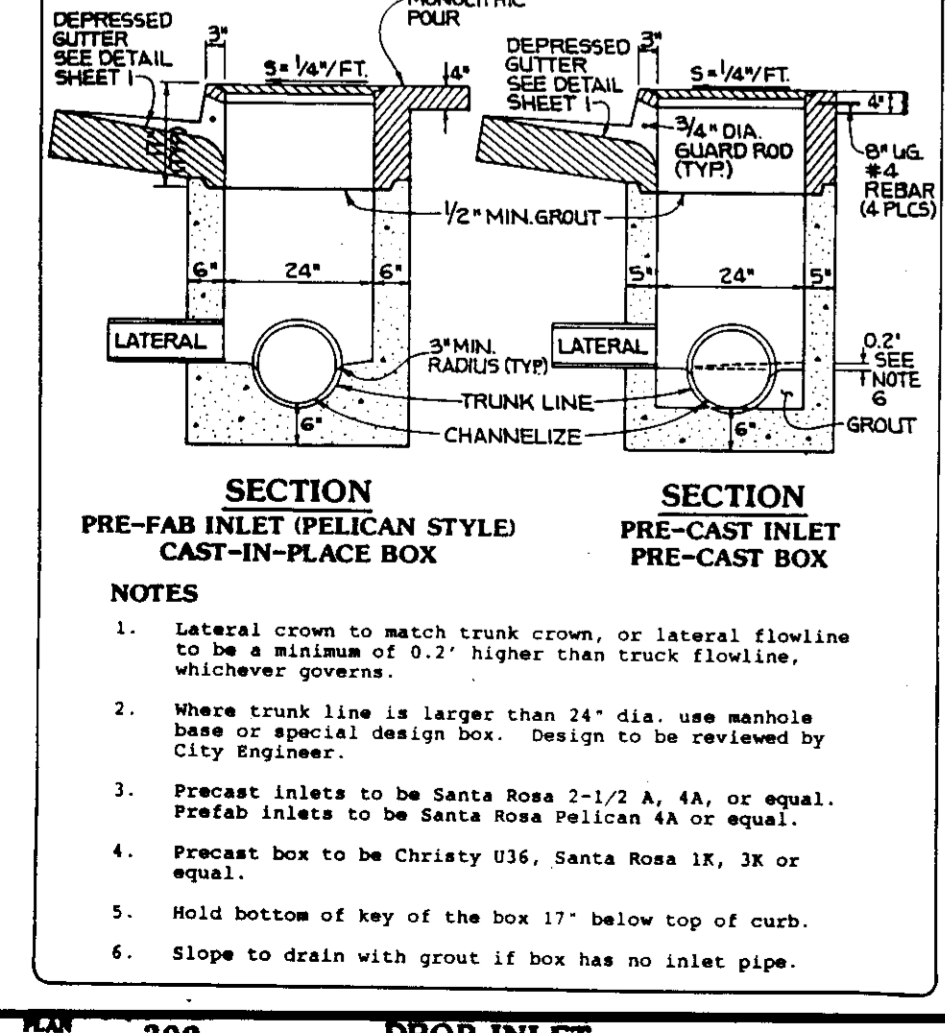
STANDARD PLAN No. 206 DROPPING MANHOLE



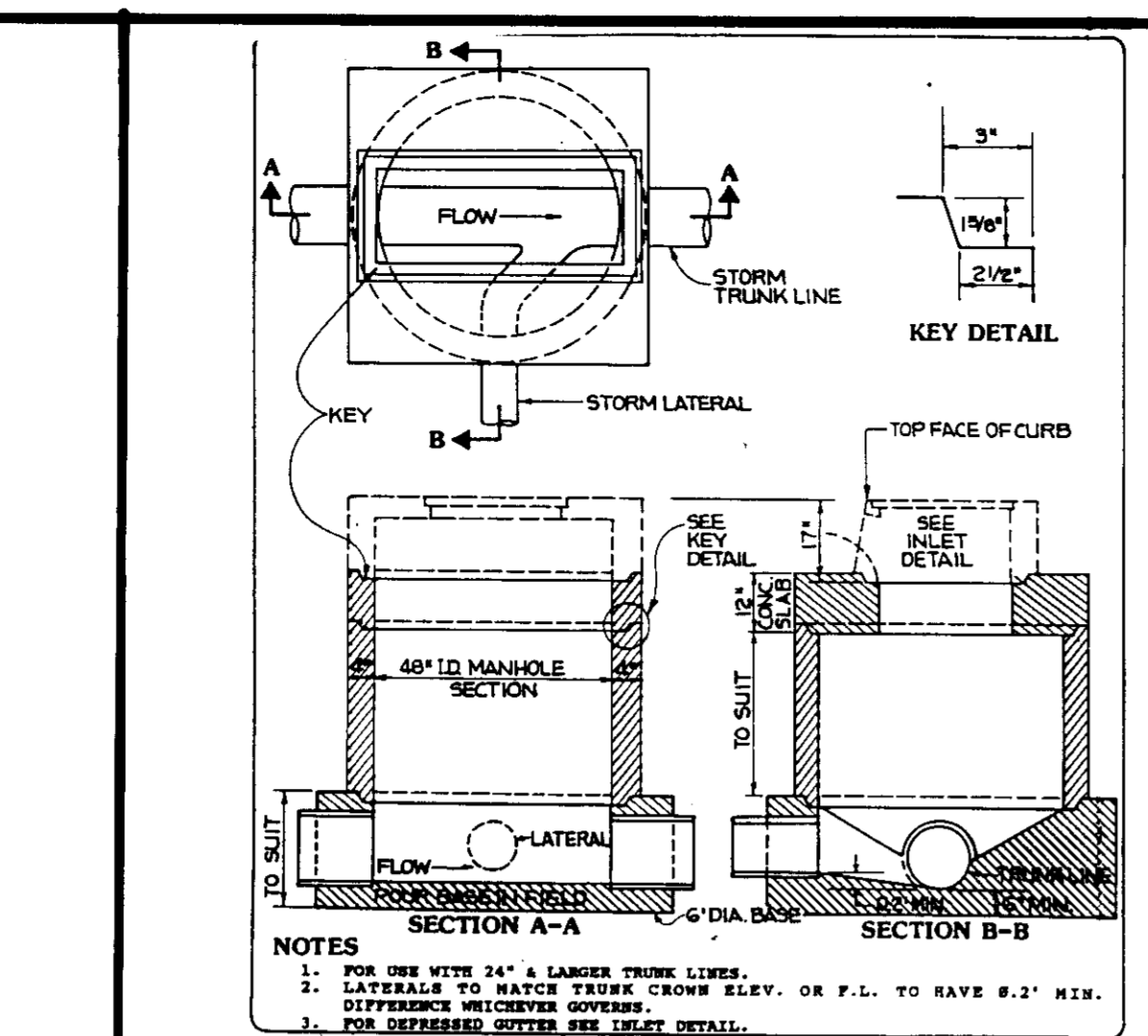
STANDARD PLAN No. 301 MANHOLE



STANDARD PLAN No. 302 DROPPING INLET



STANDARD PLAN No. 303 INLET MANHOLE BASE



STANDARD PLAN No. 403 1-1/2\"/>

STANDARD PLAN No. 405 1-1/2\"/>

STANDARD PLAN No. 406 3, 4 & 6\"/>

NOTES:

- Project Engineer to determine meter type - Compound, Turbine or Positive displacement.
- All Turbine Meter shall have a strainer immediately upstream with appropriate size box.

ROCKWELL

NO.	NAME	QUANTITY
1	Rockwell Meter	1
2	Coupling	7
3	Anchor	8
4	Gate Valve	1
5	Restricting Tee	10

ROCKWELL

NO.	NAME	QUANTITY
1	Rockwell Meter	1
2	Coupling	7
3	Anchor	8
4	Gate Valve	1
5	Restricting Tee	10

STANDARD PLAN No. 407 BLUE REFLECTIVE MARKER PLACEMENT

NOTES:

- The future extension stub shall be tested and chlorinated with the rest of the main and blown off through the blow-off pipe.
- Blow off shall be 2\"/>

SECTION A-A
SECTION B-B

STANDARD PLAN No. 409 BLOW OFF FOR FUTURE EXTENSION WITH VALVE

NOTES:

- Backflow prevention device shall consist of approved Double Check Valve or Reduced Pressure Principle Backflow Prevention Device as required.
- Size and model of backflow device to be determined for each installation, depending upon allowable head loss. Water Backflow device: Use device as installed in combination fire and domestic service.
- Backflow prevention device shall be tested and certified.
- Test cocks shall be Mueller 11-11007 or as furnished with the backflow prevention device.
- Device shall be accessible for testing and maintenance.
- Certification required prior to acceptance.

SECTION A-A
SECTION B-B

STANDARD PLAN No. 420 BACKFLOW PREVENTION DEVICE

NOTES:

- Concrete shall be Class B 2500psi; minimum at 28 days.
- Thrust blocks shall be placed against undisturbed soil.
- Minimum bearing areas are shown in the above table.
- Thrust blocks will be under-slabbed and shall not overlap ball on fittings or interfere with bolts on flanges.

THrust BLOCK AREA REQUIRED

Fittings	A				B				C			
	12\"/>											
22\"/>												
48\"/>												
40\"/>												
Dead End	1'	2'	2'	3'	3'	3'	4'	3'	4'	3'	4'	

NOTES:

- Concrete shall be Class B 2500psi; minimum at 28 days.
- Thrust blocks shall be placed against undisturbed soil.
- Minimum bearing areas are shown in the above table.
- Thrust blocks will be under-slabbed and shall not overlap ball on fittings or interfere with bolts on flanges.

STANDARD PLAN No. 423 THRUST BLOCK

NOTES:

- Valves shall be one of the following:
 - Butterfly valves 12\"/>
- Operating nuts shall be raised to within 6\"/>
- Valves shall be tested by manufacturer as follows: 4\"/>
- Valve box: Brooks 3-87 or Christy 05 with 50C lid.

SECTION A-A
SECTION B-B

STANDARD PLAN No. 402 WATER VALVE INSTALLATION

NOTES:

- Meter type and size shall be determined by City Engineer and furnished and installed by the contractor.
- Meter box shall be set to allow meter to be read from the reading 1st Meter Box shall be designed to accept Rockwell Touch Read System.

SECTION A-A
SECTION B-B

STANDARD PLAN No. 404 METER BOX

NOTES:

- Butterfly valves 12\"/>

SECTION A-A
SECTION B-B

STANDARD PLAN No. 401 FIRE HYDRANT

NOTES:

- Meter type and size shall be determined by City Engineer and furnished and installed by the contractor.
- Meter box shall be set to allow meter to be read from the reading 1st Meter Box shall be designed to accept Rockwell Touch Read System.

SECTION A-A
SECTION B-B

STANDARD PLAN No. 404 METER BOX

NOTES:

- Assemblies installed of Elbowmats, Roods and Streets without curbs shall be protected with concrete pads.
- Post consists of 6\"/>
- 24 hour written notice is required prior to commencement of work.

SECTION A-A
SECTION B-B

STANDARD PLAN No. 411 COMBINATION AIR & VACUUM RELEASE VALVE ASSEMBLY & BLOWOFF

NOTES:

- Bedding \"/>
- Bedding \"/>
- Unstable subgrade material shall be excavated and stabilized with #3 rock as per the City Engineer or his authorized representatives.

SECTION A-A
SECTION B-B

STANDARD PLAN No. 502 PIPE ZONE & BEDDING

NOTES:

- For industrial sections, depth of services at property line shall be determined by individual sewer and storm drain design.
- Depth of city water mains shall be 36\"/>

SECTION A-A
SECTION B-B

STANDARD PLAN No. 506 WATER/SEWER SEPARATION REQUIREMENTS

NOTES:

- All trenches shall be shored or protected in accordance with OSHA.
- Trenches on major and minor arterials in which case, additional thickness may be required by City Engineer.
- Imported backfill material shall be used in all trenching within existing paved streets.
- Compaction testing of the trench backfill shall be by the City.
- Drop hammer shall be used to cut pavement.
- All trenches shall be backfilled and temporary paving or steel placed at the end of each working day.
- 24 hour written notice is required prior to commencement of work.

SECTION A-A
SECTION B-B

STANDARD PLAN No. 562 UTILITY CROSSINGS

NOTES:

- Project Engineer to determine meter type - Compound, Turbine or Positive displacement.
- All Turbine Meter shall have a strainer immediately upstream with appropriate size box.

ROCKWELL

NO.	NAME	QUANTITY
1	Rockwell Meter	1
2	Coupling	7
3	Anchor	8
4	Gate Valve	1
5	Restricting Tee	10

ROCKWELL

NO.	NAME	QUANTITY
1	Rockwell Meter	1
2	Coupling	7
3	Anchor	8
4	Gate Valve	1
5	Restricting Tee	10

STANDARD PLAN No. 407 BLUE REFLECTIVE MARKER PLACEMENT

NOTES:

- Bedding \"/>
- Bedding \"/>
- Unstable subgrade material shall be excavated and stabilized with #3 rock as per the City Engineer or his authorized representatives.

SECTION A-A
SECTION B-B

STANDARD PLAN No. 502 PIPE ZONE & BEDDING

NOTES:

- For industrial sections, depth of services at property line shall be determined by individual sewer and storm drain design.
- Depth of city water mains shall be 36\"/>

SECTION A-A
SECTION B-B

STANDARD PLAN No. 506 WATER/SEWER SEPARATION REQUIREMENTS

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- Trenches on major and minor arterials in which case, additional thickness may be required by City Engineer.
- Imported backfill material shall be used in all trenching within existing paved streets.
- Compaction testing of the trench backfill shall be by the City.
- Drop hammer shall be used to cut pavement.
- All trenches shall be backfilled and temporary paving or steel placed at the end of each working day.
- 24 hour written notice is required prior to commencement of work.

SECTION A-A
SECTION B-B

STANDARD PLAN No. 562 UTILITY CROSSINGS

NOTES:

- Project Engineer to determine meter type - Compound, Turbine or Positive displacement.
- All Turbine Meter shall have a strainer immediately upstream with appropriate size box.

ROCKWELL

NO.	NAME	QUANTITY
1	Rockwell Meter	1
2	Coupling	7
3	Anchor	8
4	Gate Valve	1
5	Restricting Tee	10

ROCKWELL

NO.	NAME	QUANTITY
1	Rockwell Meter	1
2	Coupling	7
3	Anchor	8
4	Gate Valve	1
5	Restricting Tee	10

STANDARD PLAN No. 407 BLUE REFLECTIVE MARKER PLACEMENT

S. J. PATTERSON

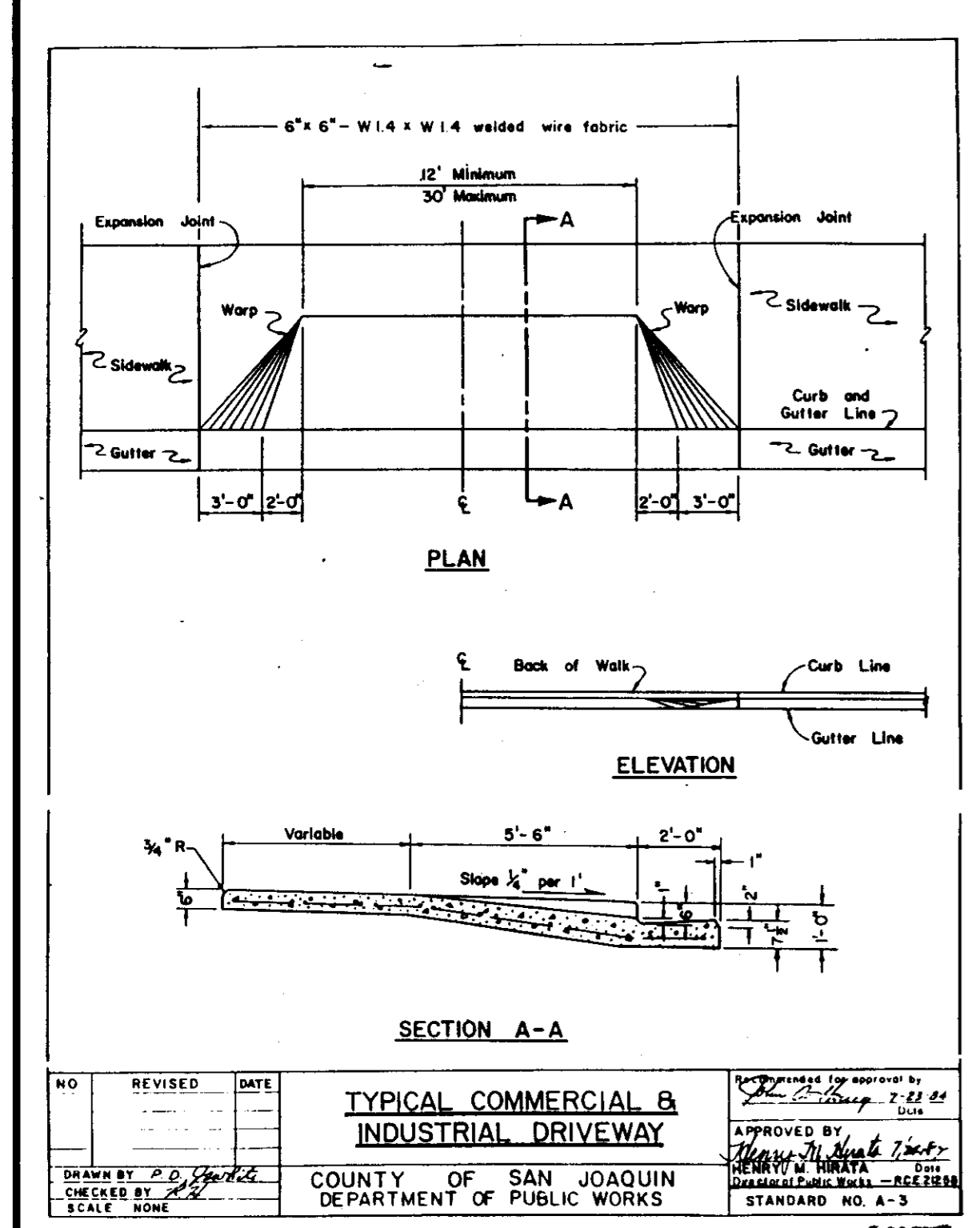
DATE: 10/15/91
 SCALE: NONE
 DESIGNED: H.R.G.
 DRAWN: H.R.G.
 CHECKED: KCC/AMH
 PROJ. ENGR.: JMS
 PROJ. MGR.: WG
 NO. BY DATE
 REVISIONS

Majors Engineering, Inc.
 100 PARK PLACE, SUITE 220, SAN RAMON, CA. 94583
 (510)820-2423
 2535 CAPITOL OAK DR., SUITE 140
 SACRAMENTO, CA. 95833
 (916)841-7570

PATTERSON PASS BUSINESS PARK
 SUBDIVISION OF TRACT NO. 2450
 DETAIL SHEET
 CITY OF TRACY STANDARDS
 SAN JOAQUIN COUNTY, CALIFORNIA

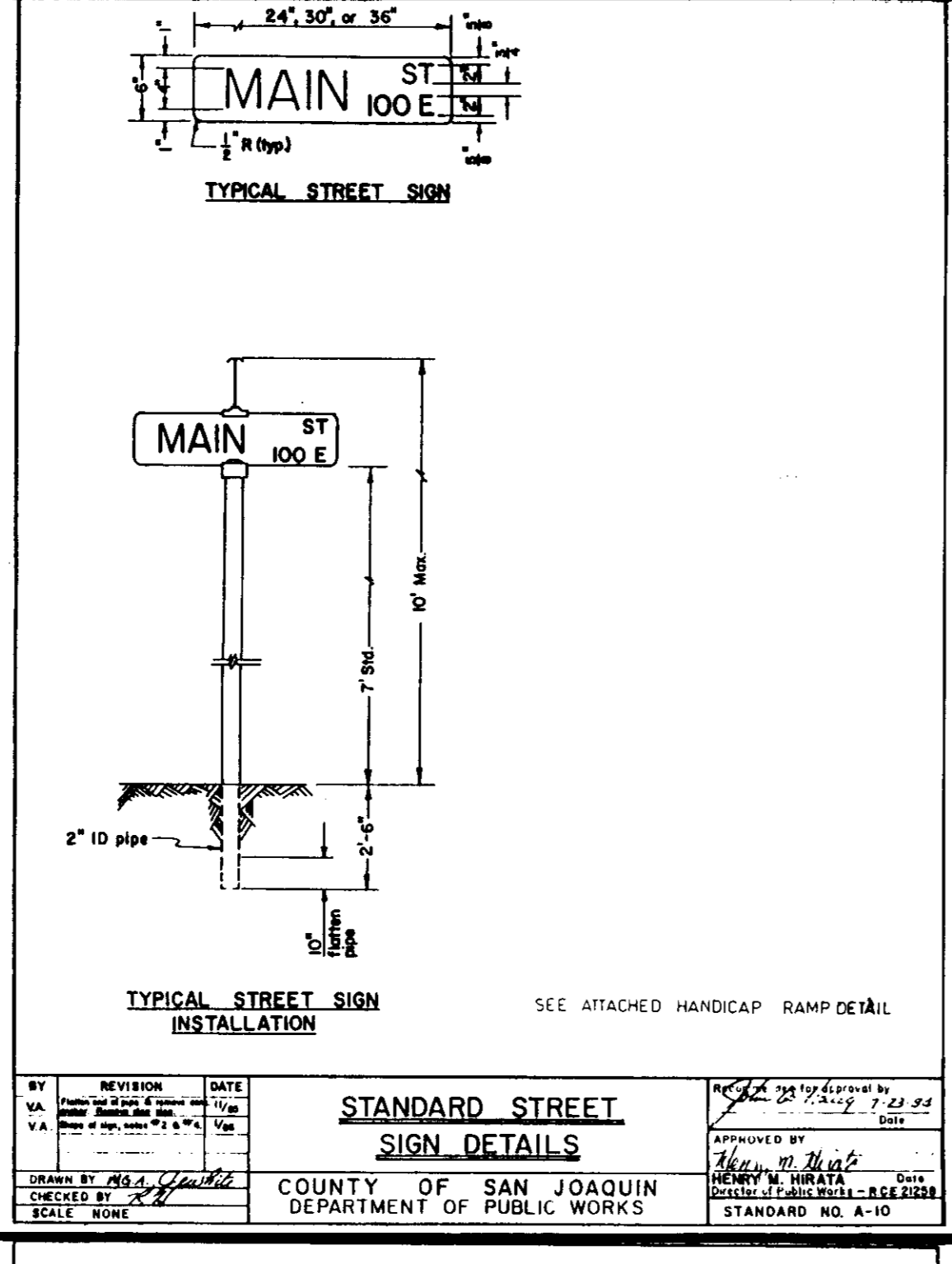
SHEET 3B
 OF 12 SHEETS
 MUM JOB NO.: 3296
 MUM CAD FILE: 3296CP2.DWG

AS BUILT



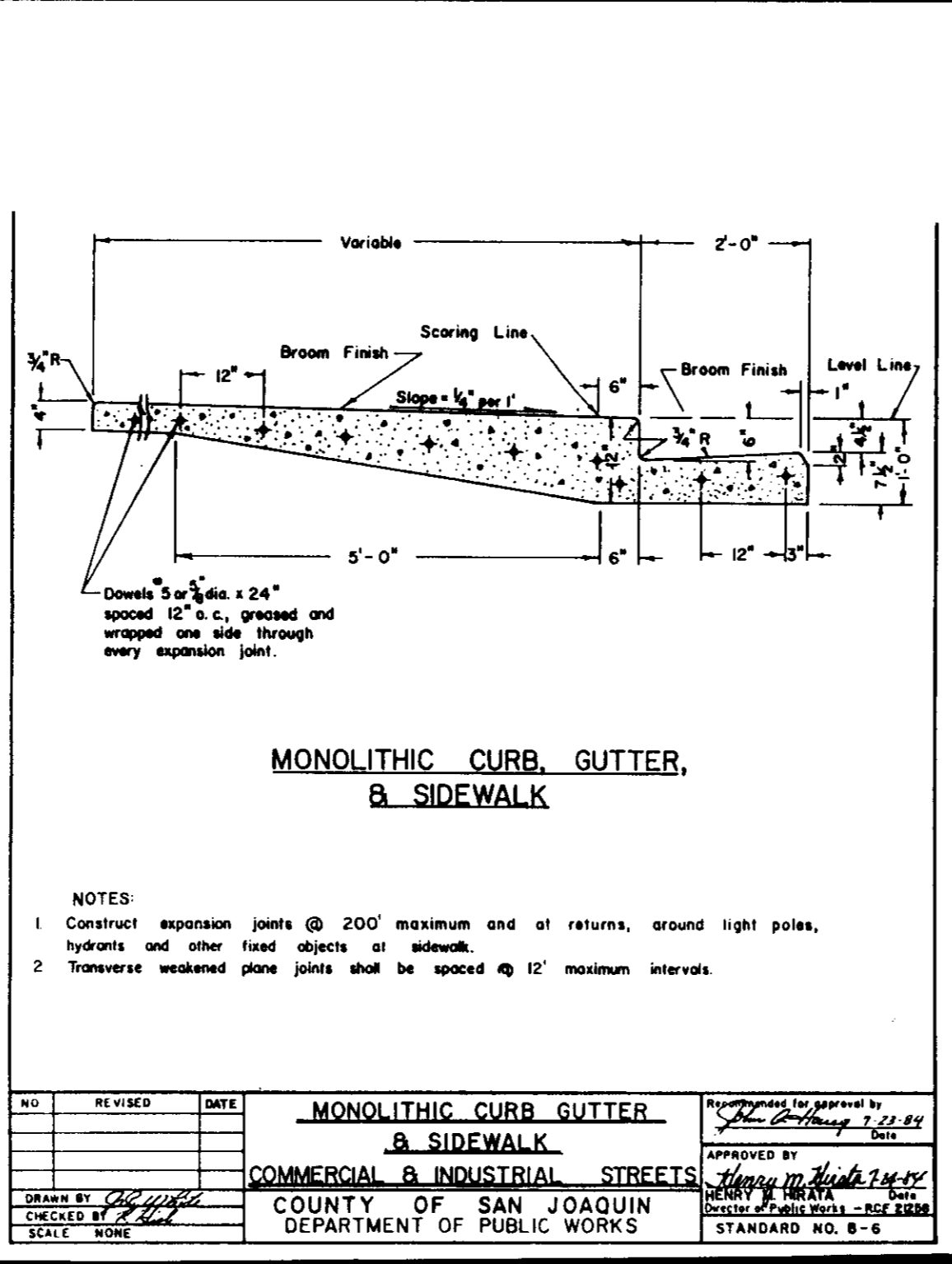
NO.	REVISION	DATE

TYPICAL COMMERCIAL & INDUSTRIAL DRIVEWAY
COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS



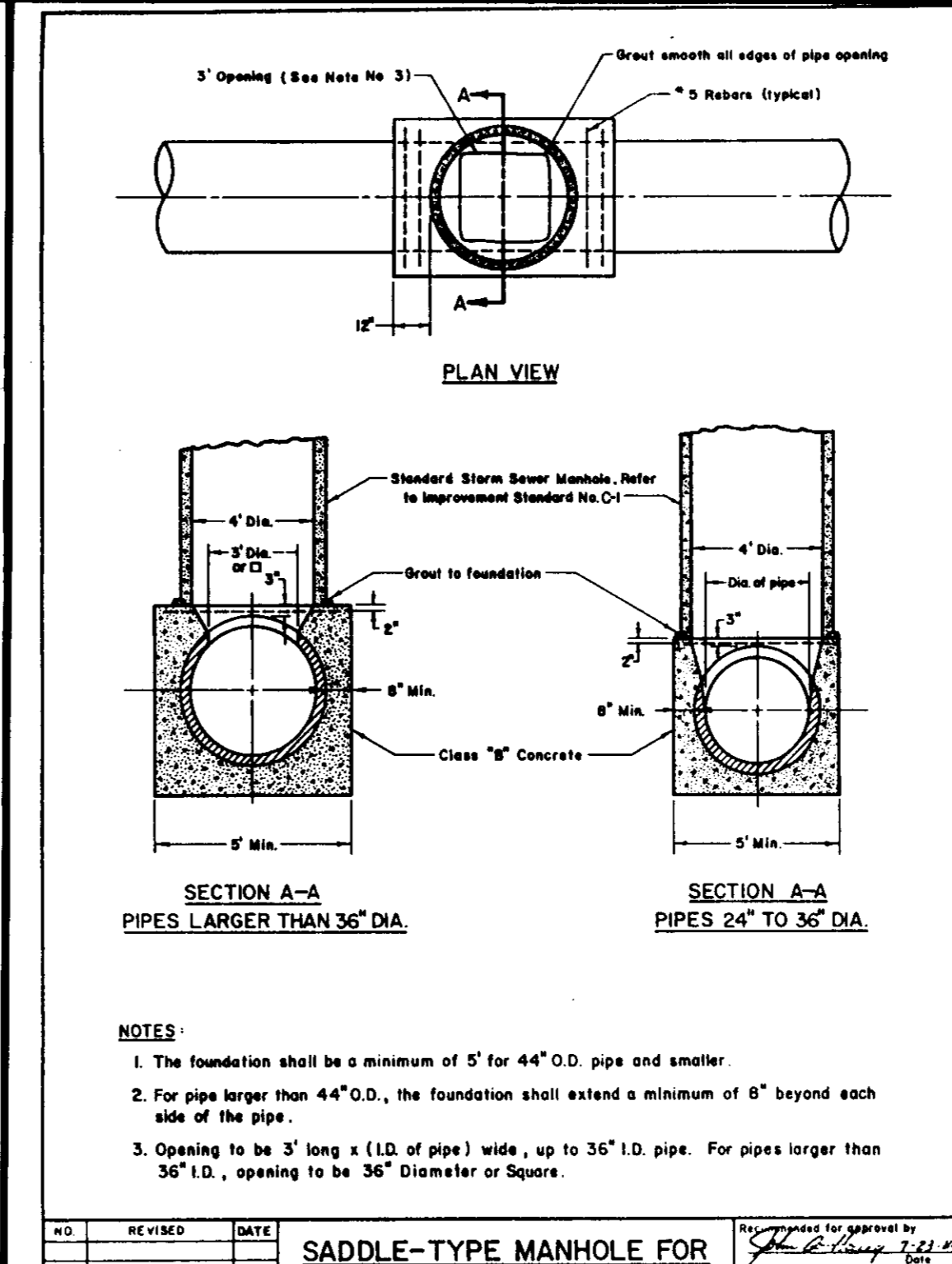
NO.	REVISION	DATE

TYPICAL STREET SIGN INSTALLATION
COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS



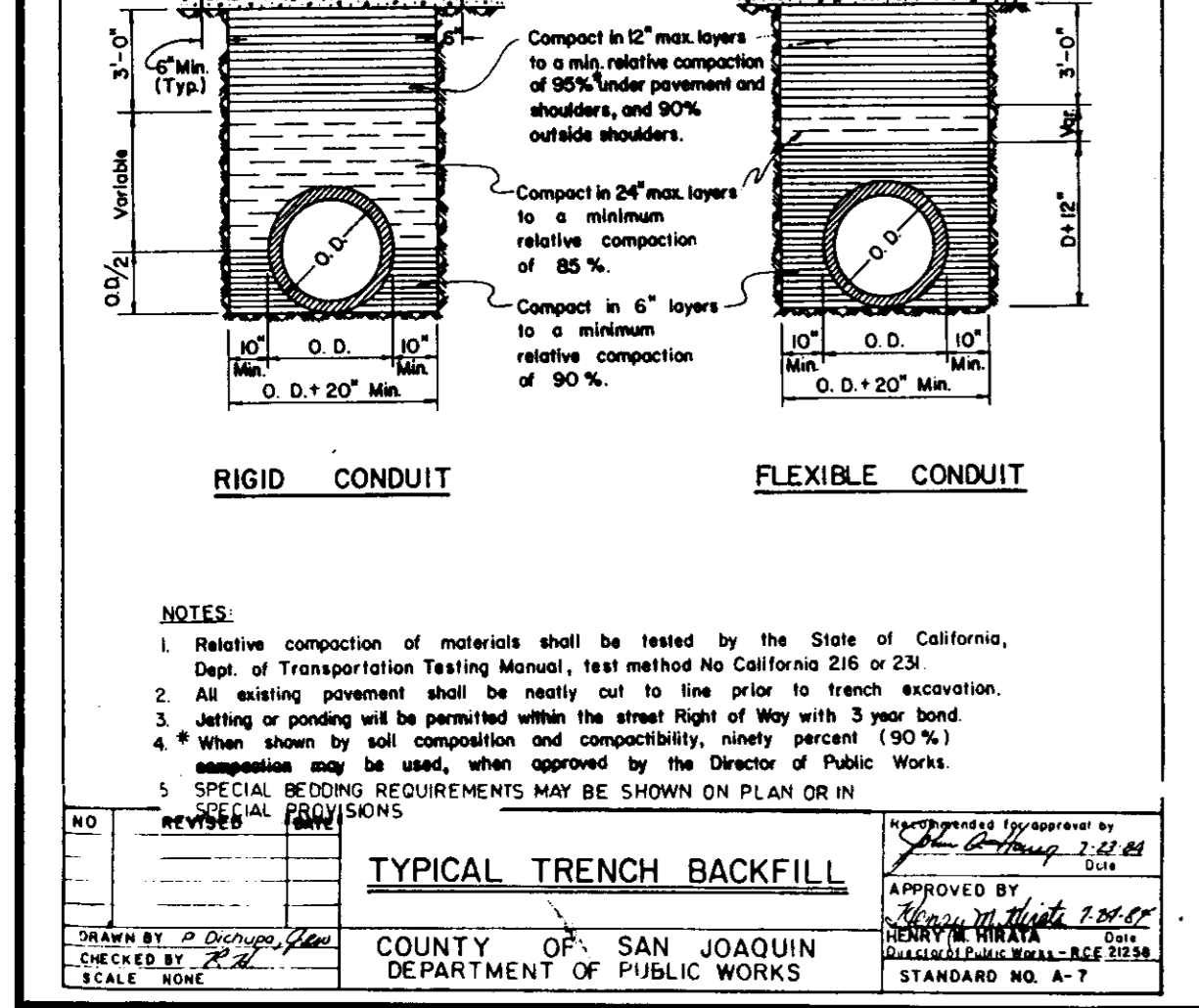
NO.	REVISION	DATE

MONOLITHIC CURB, GUTTER, & SIDEWALK
COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS



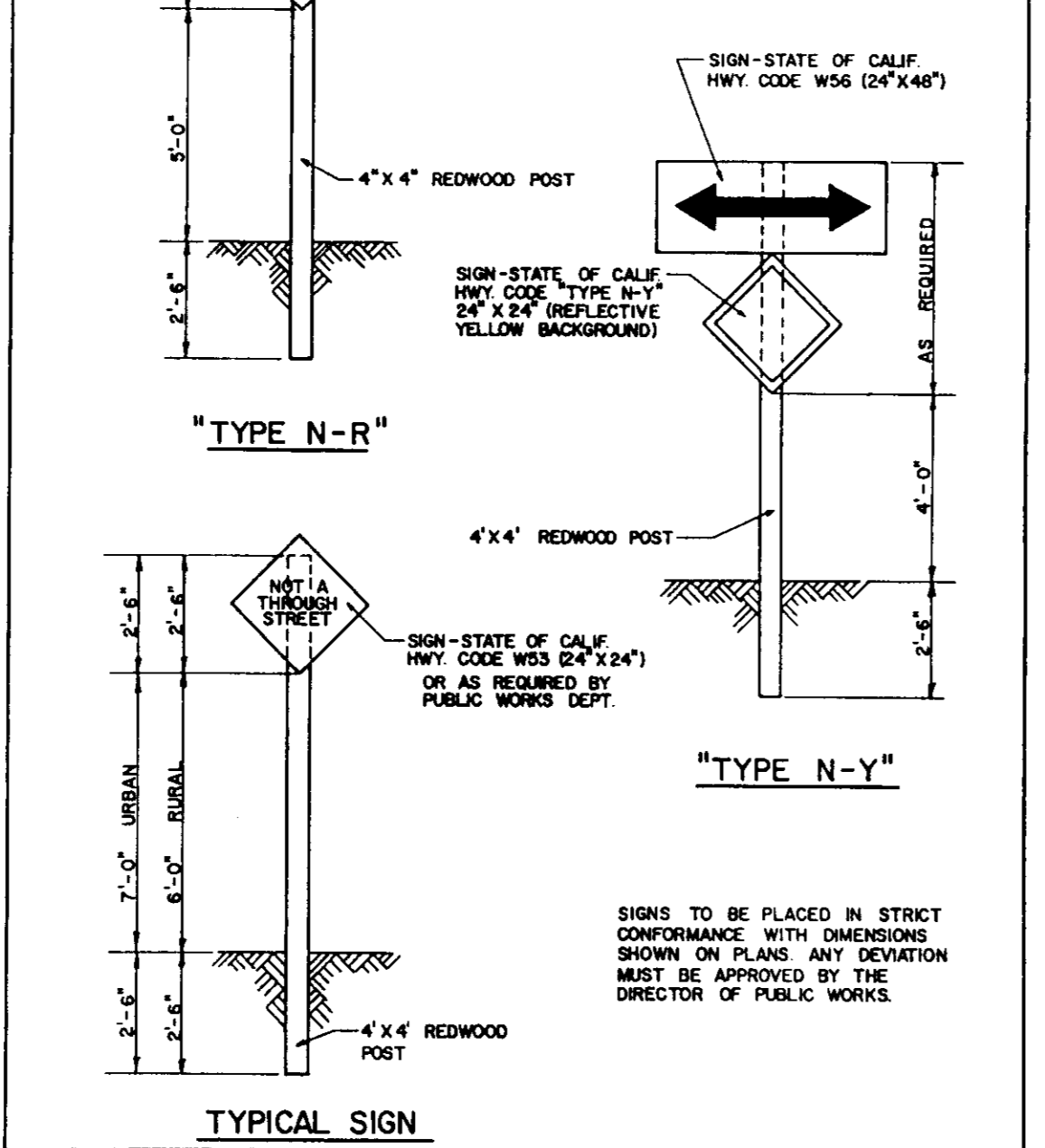
NO.	REVISION	DATE

SADDLE-TYPE MANHOLE FOR PIPE 24\"/>



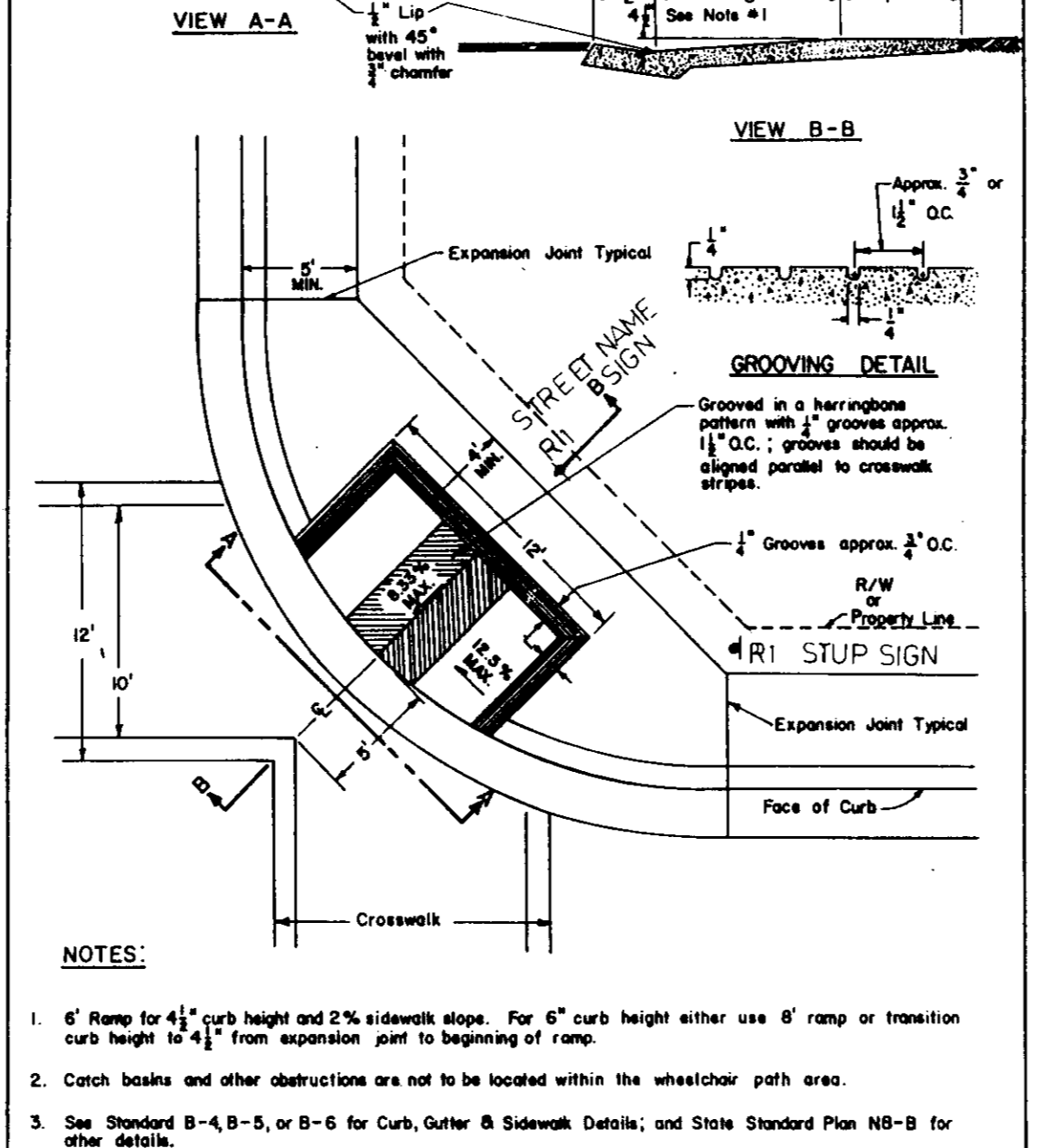
NO.	REVISION	DATE

RIGID CONDUIT FLEXIBLE CONDUIT
COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS



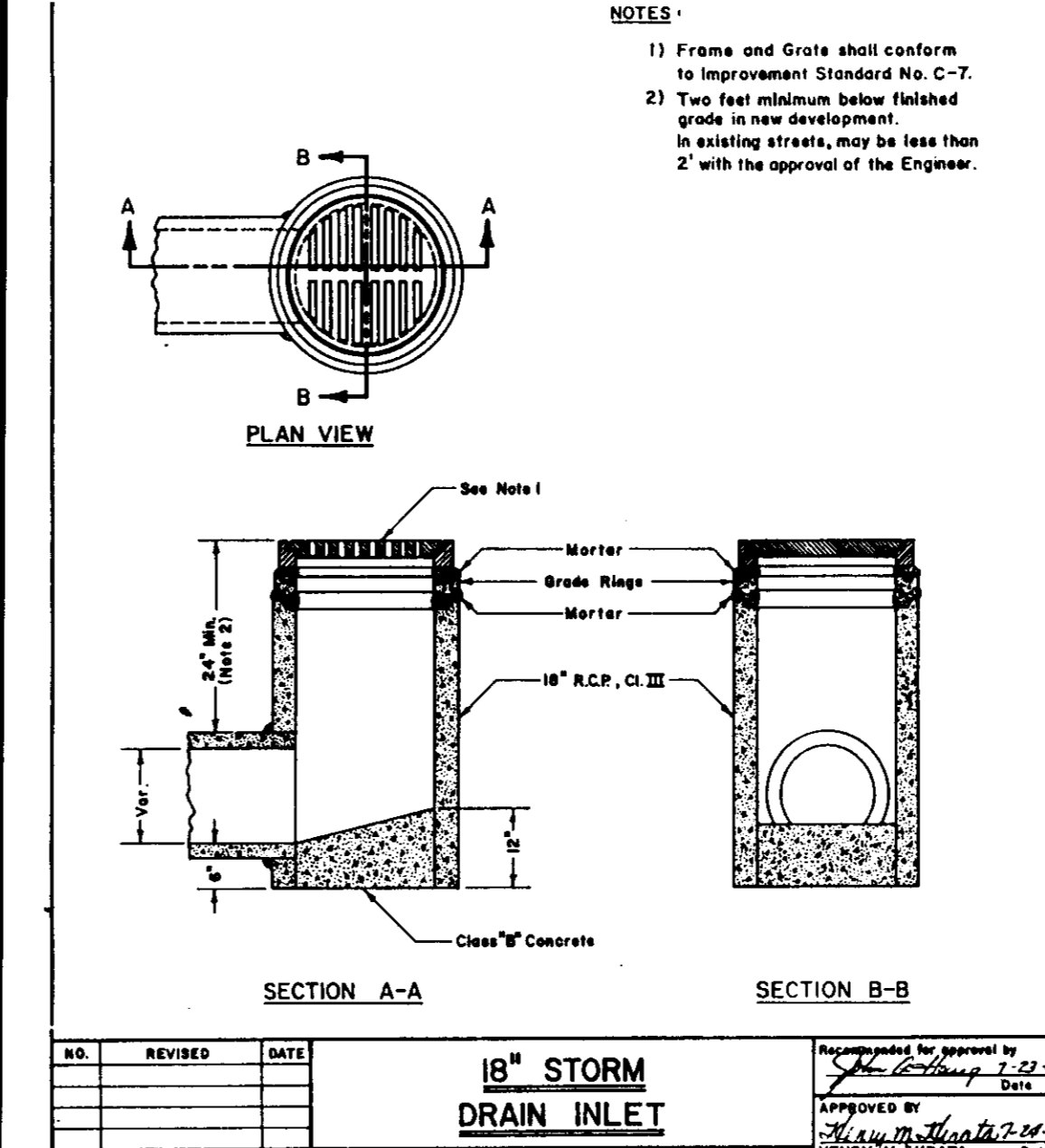
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TYPE N-R TYPE N-Y
COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS



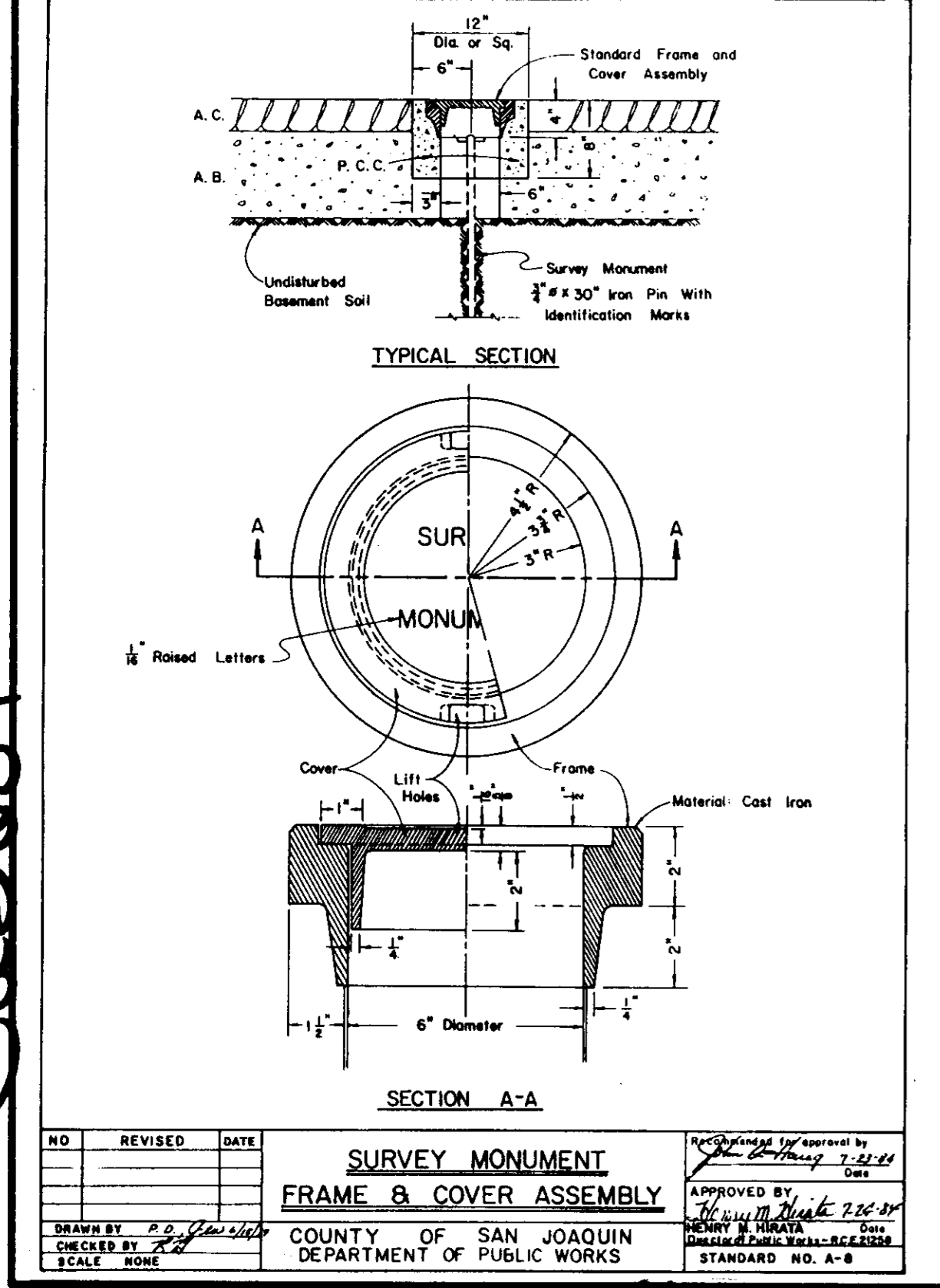
NO.	REVISION	DATE

WHEELCHAIR RAMP
COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS



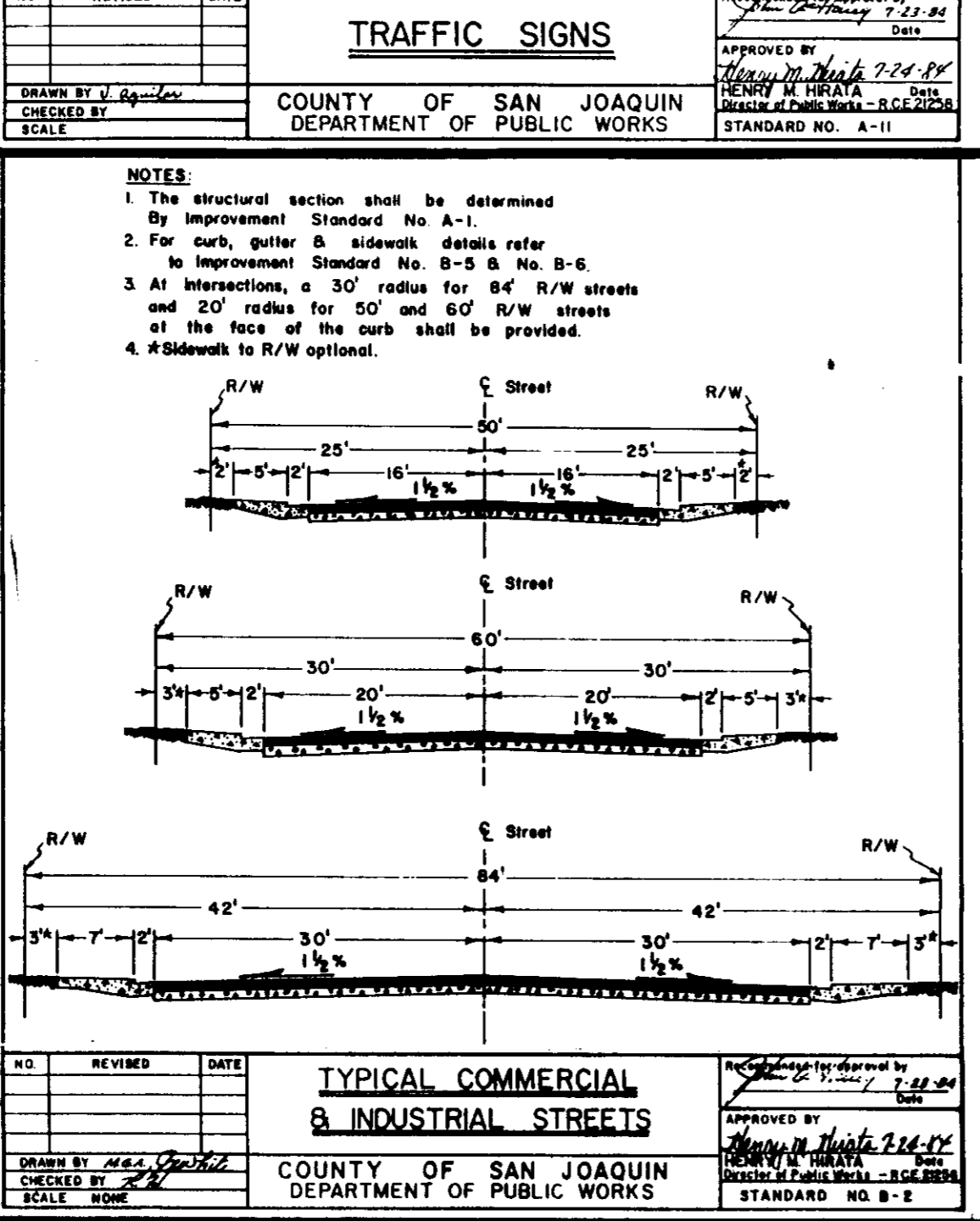
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18\"/>



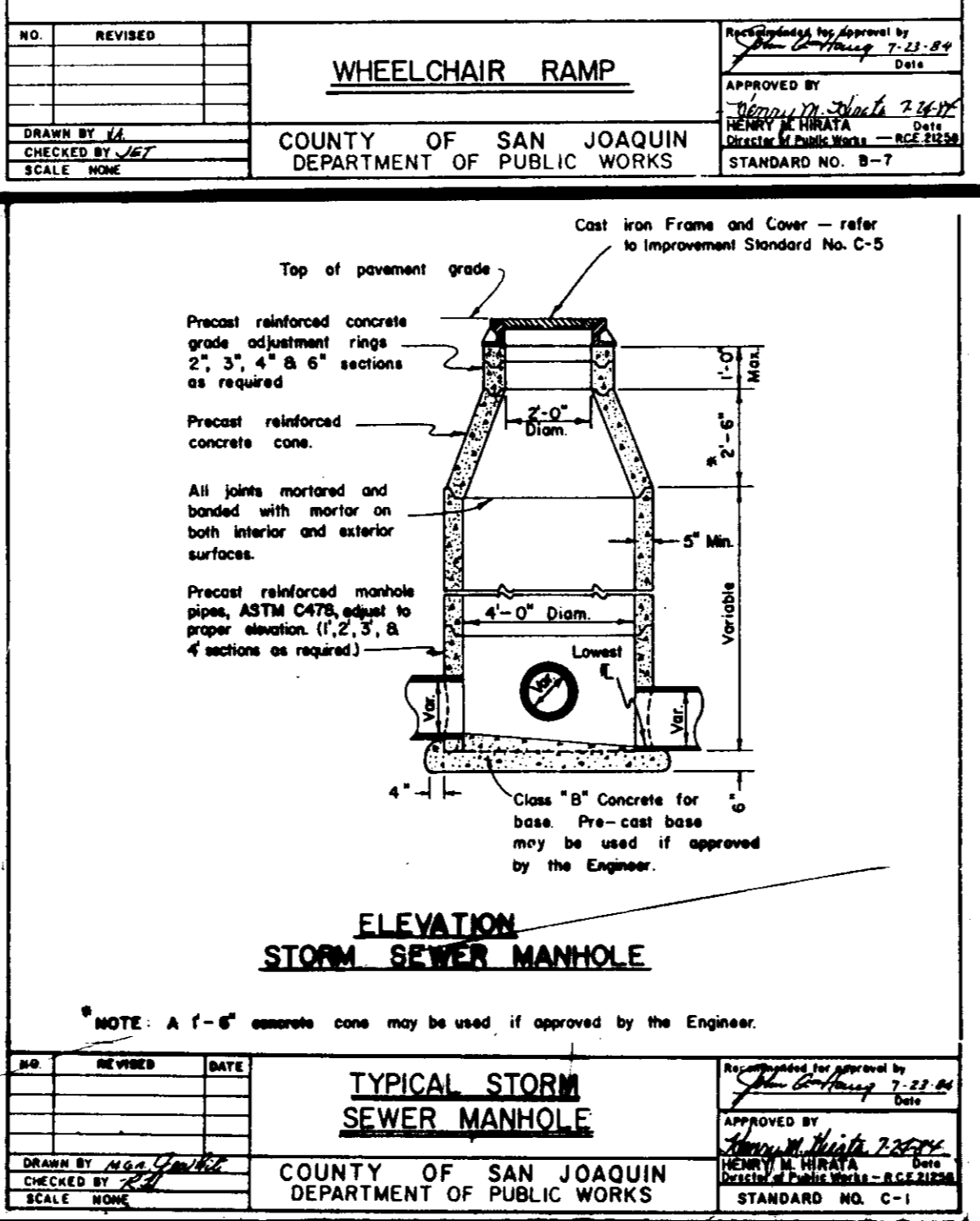
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SURVEY MONUMENT FRAME & COVER ASSEMBLY
COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS



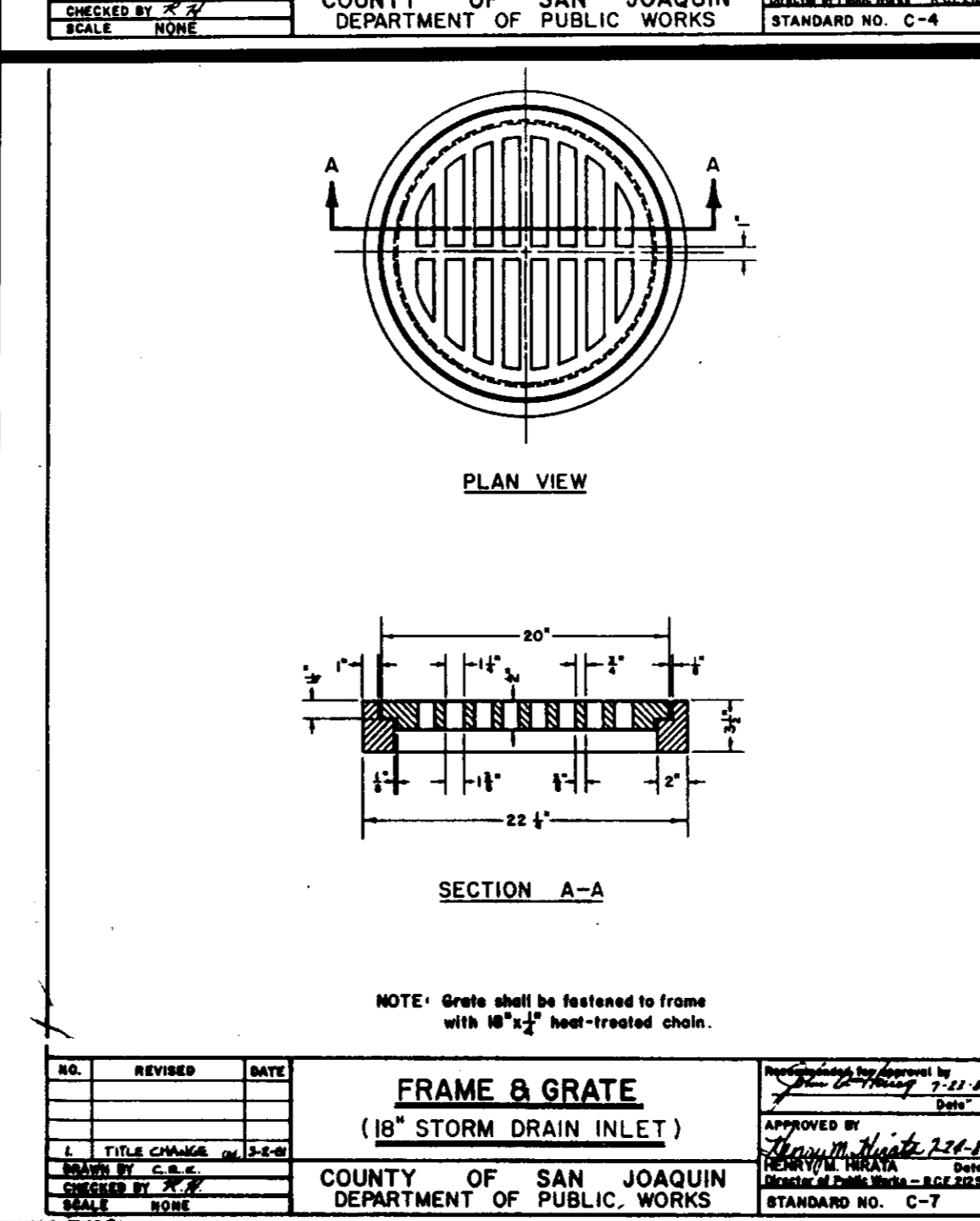
NO.	REVISION	DATE

TYPICAL COMMERCIAL & INDUSTRIAL STREETS
COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS



NO.	REVISION	DATE

TYPICAL STORM SEWER MANHOLE
COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS



NO.	REVISION	DATE

FRAME & GRATE (18\"/>

L. BOYERS

DETAIL SHEET

PATTERSON PASS BUSINESS PARK
SUBDIVISION OF TRACT NO. 2450
COUNTY OF SAN JOAQUIN STANDARDS
SAN JOAQUIN COUNTY CALIFORNIA

Majors Engineering, Inc.
100 PARK PLACE, SUITE 220, SAN RAMON, CA 94583
(510) 820-2423

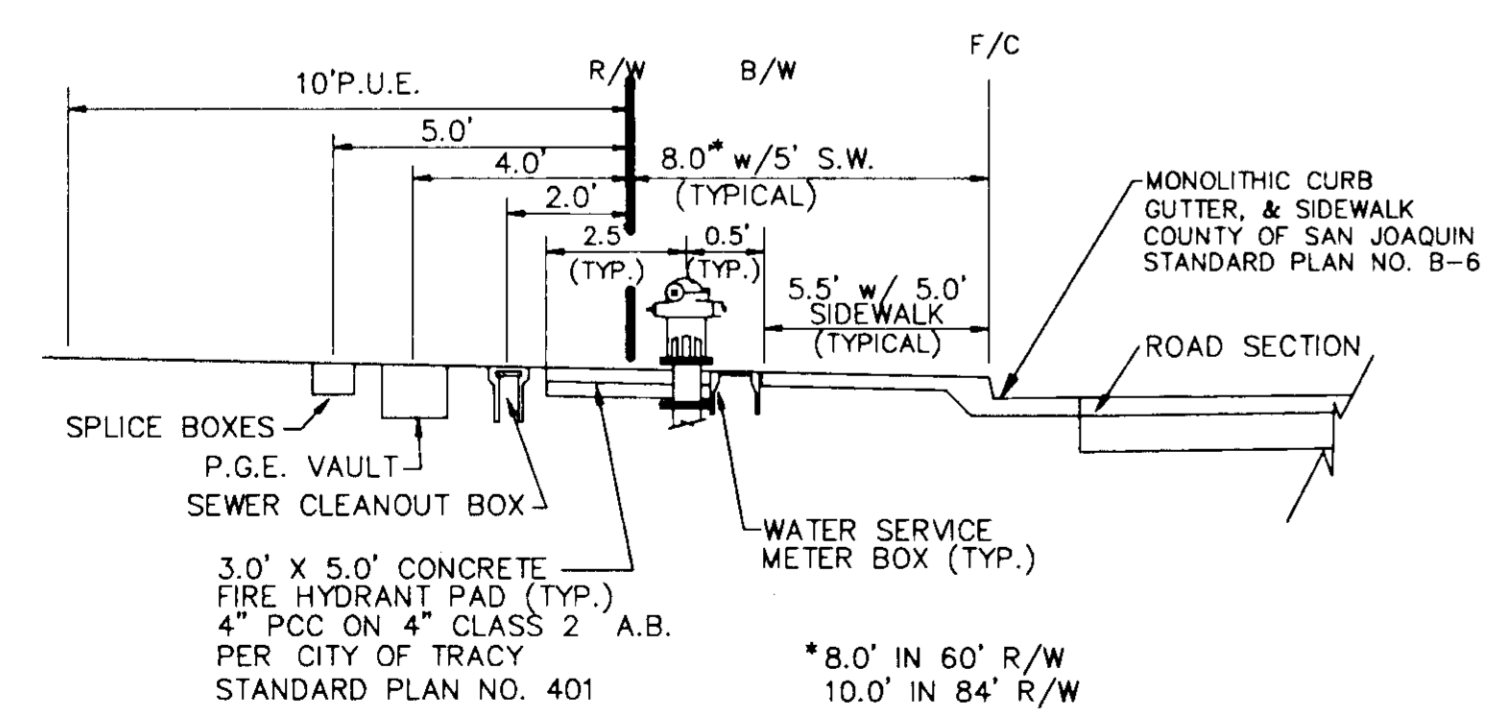
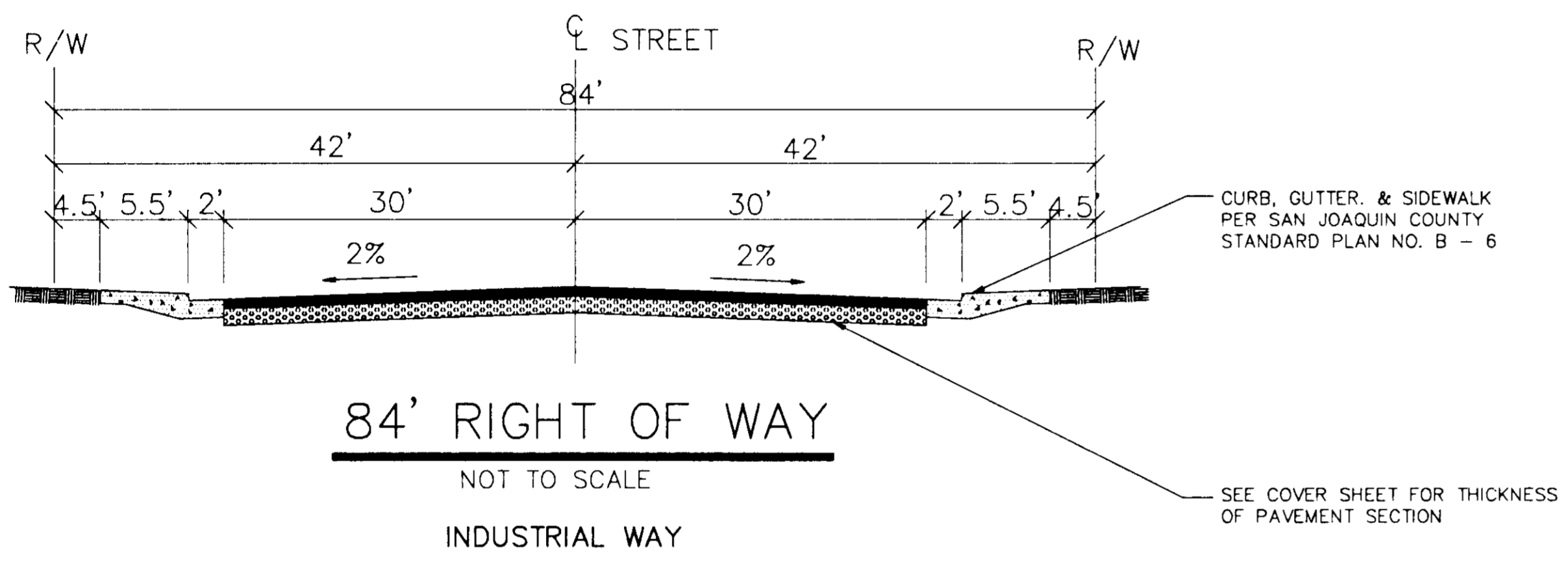
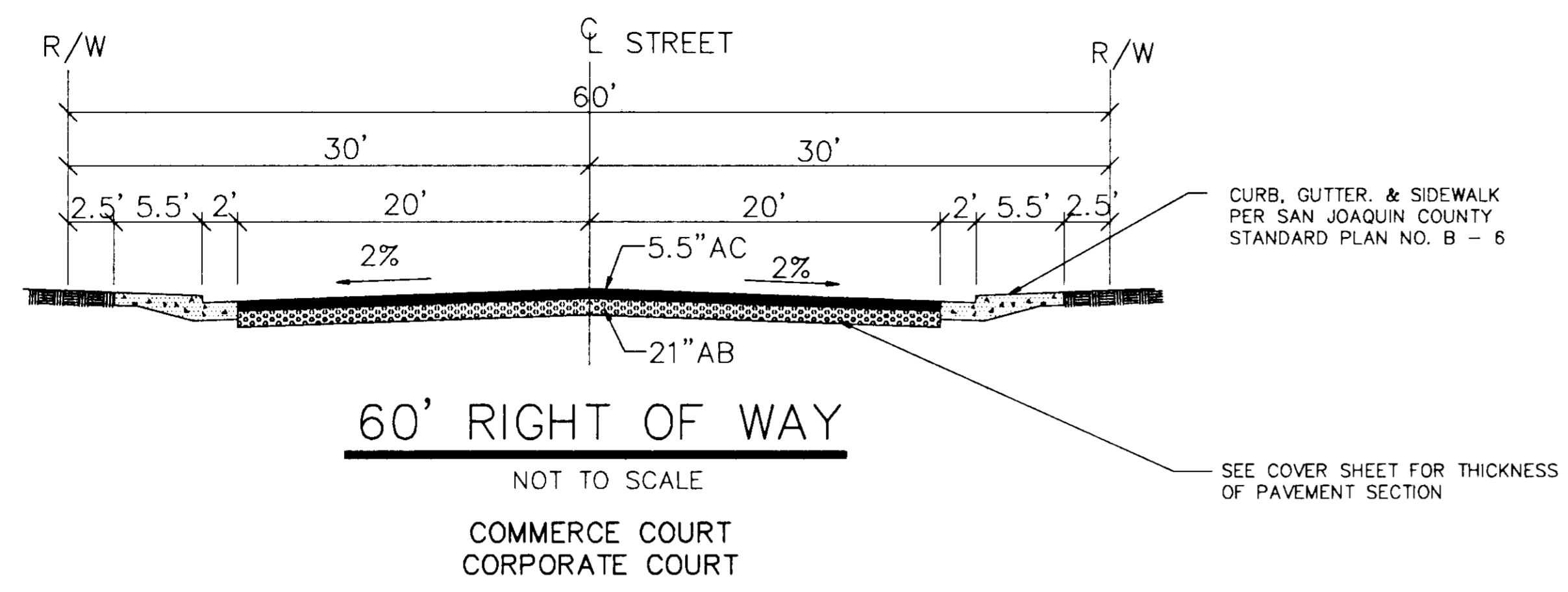
150 FORD WAY
NOVA TO, CA 94945
(415) 892-0333

2535 CAPITOL OAK DR., SUITE 140
SACRAMENTO, CA 95833
(916) 441-7570

DATE: 10/15/91
SCALE: NONE
DESIGNED: H.R.G.
DRAWN: MGH
CHECKED: KCC/AMS
PROJ. ENGR.: MGH
PROJ. MGR.: WC
NO. BY DATE REVISIONS

SHEET 3A
OF 12 SHEETS
M.J.M. JOB NO.: 3296
M.J.M. CADD FILE: 3296
3296QP2.DWG

AS BUILT



UTILITY LOCATION DETAIL
N.T.S.

DATE: 10/15/91		SCALE: NONE		DESIGNED: MAJORS ENGINEERING, INC.		DRAWN: H.R.G.		CHECKED: H.R.G.		PROJ. ENGR.: H.R.G.		PROJ. MGR.: H.R.G.		NO.		BY		DATE		REVISIONS											
Majors Engineering, Inc. 100 PARK PLACE, SUITE 220, SAN RAMON, CA 94583 (510) 820-2423 150 FORD HWY NO. 10, 94545 (415) 892-0333												2535 CAPITOL OAK DR., SUITE 140 SACRAMENTO, CA 95833 (916) 641-7570																			
PATTERSON PASS BUSINESS PARK SUBDIVISION OF TRACT NO. 2450 DETAIL SHEET FOR IMPROVEMENT PLAN												CALIFORNIA																			
SHEET		3		OF		12		SHEETS		MJM JOB NO.:		3296		MJM CADD FILE:		3296IP3.DWG															

AS BUILT

3296IP3

GENERAL NOTES:

1. OWNER & DEVELOPER: KING & LYONS
46750 FREMONT BLVD. #201
FREMONT, CA 94538
(510) 656-1900
2. CIVIL ENGINEER: MAJORS ENGINEERING, INC.
100 PARK PLACE, SUITE 220
SAN RAMON, CA 94583
(510) 820-2423
3. SOILS ENGINEER: BERLOGER GEOTECHNICAL
5587 SUNOL BLVD.
PLEASANTON, CA 94566
(510) 484-0220
4. THE ENGINEER ASSUMES NO RESPONSIBILITY BEYOND THE ADEQUACY OF THE DESIGN CONTAINED HEREIN.
5. CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND THAT CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
6. CONTRACTOR SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDERS.
7. ALL CONSTRUCTION MATERIALS AND METHODS SHALL COMPLY WITH THE ORDINANCE, SPECIFICATIONS AND STANDARDS OF THE CITY OF TRACY AND SAN JOAQUIN COUNTY.
8. DUST SHALL BE CONTROLLED BY WATERING THROUGHOUT THE GRADING AND UNDERGROUND CONSTRUCTION OPERATIONS AS REQUIRED BY THE CITY OF TRACY. THE CONTRACTOR SHALL ARRANGE AND PAY FOR CONSTRUCTION WATER.
9. SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT MARY GRACE HOULIHAN AT MAJORS ENGINEERING, INC., AT (510) 820-2423 AND THE OWNER'S REPRESENTATIVE FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
10. IF ARCHEOLOGICAL MATERIALS ARE UNCOVERED DURING GRADING, TRENCHING OR OTHER ON-SITE EXCAVATION, EARTHWORK WITHIN 100 FEET OF THESE MATERIALS SHALL BE STOPPED UNTIL A PROFESSIONAL ARCHAEOLOGIST WHO IS CERTIFIED BY THE SOCIETY OF CALIFORNIA ARCHAEOLOGY (SCA) AND/OR THE SOCIETY OF PROFESSIONAL ARCHAEOLOGY (SOPA) HAS HAD AN OPPORTUNITY TO EVALUATE THE SIGNIFICANCE OF THE FIND AND SUGGEST APPROPRIATE MITIGATION MEASURES, IF THEY ARE DEMAED NECESSARY.
11. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) (800) 642-2444, TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION. THE USA AUTHORIZATION NUMBER SHALL BE KEPT AT THE JOB SITE.
12. THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING STREETS SURROUNDING LANDSCAPING AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALKS, GRADING, ETC., AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN APPEARANCE, GRADES, CROSS SLOPES, LOW SPOTS, OR HAZARDOUS CONDITIONS.
13. THE CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR ENGINEERING DEPARTMENT, AMBULANCE, POLICE AND FIRE DEPARTMENTS AT THE FIELD OFFICE IN A VISIBLE LOCATION.
14. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL NECESSARY UTILITY RELOCATIONS WITH THE APPROPRIATE UTILITY COMPANIES.
15. THE CONTRACTOR SHALL PROVIDE FOR INGRESS AND EGRESS TO PRIVATE PROPERTY ADJACENT TO WORK THROUGHOUT THE PERIOD OF CONSTRUCTION.
16. ALL WORK SHALL CONFORM TO THE SAN JOAQUIN COUNTY STANDARD SPECIFICATIONS AND PLANS FOR ALL STORM DRAINAGE AND STREET IMPROVEMENTS AND THE CITY OF TRACY STANDARD SPECIFICATIONS AND PLANS FOR SANITARY SEWER AND WATER. THE IMPROVEMENTS ARE SUBJECT TO THE INSPECTION AND APPROVAL OF THESE PUBLIC WORKS DEPARTMENT. CONTACT PUBLIC WORKS CONSTRUCTION MANAGEMENT AT (209) 468-3014 FOR SAN JOAQUIN COUNTY AND (209) 836-4420 FOR CITY OF TRACY TWO (2) WORKING DAYS (48 HOURS) PRIOR TO THE START OF ANY WORK TO ARRANGE FOR INSPECTION.
17. ALL REVISIONS TO THIS PLAN MUST BE REVIEWED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO CONSTRUCTION AND SHALL BE ACCURATELY SHOWN ON THE REVISED PLANS STAMPED AND SIGNED BY CITY/COUNTY STAFF (AS APPLICABLE) PRIOR TO THE INSTALLATION OF THE IMPROVEMENTS.
18. THESE PLANS HAVE BEEN THOROUGHLY CHECKED BY SAN JOAQUIN COUNTY AND/OR ITS AUTHORIZED REPRESENTATIVE, BUT SUCH CHECKING AND/OR APPROVAL DOES NOT RELIEVE THE DEVELOPER FROM HIS RESPONSIBILITY TO CORRECT ERRORS, OMISSIONS OR MAKE CHANGES REQUIRED BY CONDITIONS DISCOVERED IN THE FIELD DURING THE COURSE OF CONSTRUCTION.
19. ALL STAKING REQUESTS SHOULD BE DIRECTED TO THE OWNER'S REPRESENTATIVE A MINIMUM OF TWO (2) DAYS PRIOR TO ACTUAL NEED. ANY RESTAKING WILL ONLY BE DONE AS DIRECTED AND AUTHORIZED BY THE OWNER OR AUTHORIZED AGENT.
20. ALL CONSTRUCTION STAKING FOR CURB, GUTTER, AND SIDEWALK, SANITARY SEWERS, STORM DRAINS, WATER LINES, FIRE HYDRANTS, ELECTROLIERS, ETC., SHALL BE DONE BY A REGISTERED CIVIL ENGINEER OR LICENSED SURVEYOR.
21. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR FINAL GRADE OF CONCRETE UNLESS FORMS ARE CHECKED PRIOR TO POURING.
22. ALL EXISTING ELEVATIONS SHOWN ARE AS MEASURED IN THE FIELD, UNLESS OTHERWISE NOTED.
23. THE EXISTING UTILITIES ARE PLOTTED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THESE UTILITIES. THE CONTRACTOR SHALL NOT EXCAVATION UNTIL ALL UTILITY AGENCIES AND SAN JOAQUIN COUNTY HAVE BEEN NOTIFIED AND HAVE BEEN GIVEN THE OPPORTUNITY TO MARK THEIR FACILITIES IN THE FIELD.
24. ALL LINES ABANDONED DURING CONSTRUCTION SHALL BE REMOVED OR CRUSHED IN PLACE WITH APPROVAL OF THE SOILS ENGINEER AND SAN JOAQUIN COUNTY.
25. TESTING:

- A. ALL INDEPENDENT LABORATORY INSPECTION CALLED FOR BY THE CITY ENGINEER WILL BE PAID FOR BY THE DEVELOPER OR CONTRACTOR.
- B. ROAD SUBBASE AND TRENCH BACKFILL TESTING SHALL BE PERFORMED BY A SOILS LAB.
- C. TESTS FOR R-VALVES ARE REQUIRED PRIOR TO THE INSTALLATION OF BASE ROCK.

26. EXISTING CURB AND SIDEWALK WITHIN THE PROJECT LIMITS THAT ARE DAMAGED OR DISPLACED, EVEN THOUGH THEY WERE NOT TO BE REMOVED, SHALL BE REPAIRED OR REPLACED PER COUNTY STANDARD PLANS EVEN IF DAMAGE OR DISPLACEMENT OCCURRED PRIOR TO ANY WORK PERFORMED BY THE CONTRACTOR UNLESS IDENTIFIED PRIOR TO START OF WORK.

27. ALL STREET MONUMENTS, LOT CORNER, AND OTHER PERMANENT PIPE OR MONUMENTS DISTURBED DURING THE PROCESS OF CONSTRUCTION SHALL BE REPLACED BEFORE ACCEPTANCE OF IMPROVEMENTS BY THE CITY OF TRACY.

28. REFER TO THE FINAL MAP OF THIS TRACT FOR PROPERTY LINE DATA.

29. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND LICENSES PRIOR TO THE START OF CONSTRUCTION.

30. ALL TEST AND INSPECTIONS REQUIRED BY GOVERNING AGENCIES SHALL BE ARRANGED AND PAID FOR BY THE CONTRACTOR.

31. ARRANGING A PRE-CONSTRUCTION JOB SITE CONFERENCE WITH GOVERNING AGENCIES, ALL UTILITY COMPANIES AND OWNERS REPRESENTATIVES PRIOR TO COMMENCING WORK. THIS MEETING WILL VERIFY SCHEDULES, METHODS AND MATERIALS TO BE USED IN CONSTRUCTION OF THE PROJECT.

32. CERTIFICATIONS TO OWNER FOR FOLLOWING STAGES OF COMPLETION:

- A. ROUGH GRADE TO PLUS OR MINUS ONE-TENTH OF A FOOT. ROUGH GRADE SOIL COMPACTION PRIOR TO ANY UNDERGROUND CONSTRUCTION.
- B. PAD LINE AND GRADE TO PLUS OR MINUS ONE-TENTH OF A FOOT. PAD SOIL COMPACTION PRIOR TO ANY BUILDING CONSTRUCTION.
- C. TRENCH BACKFILL.
- D. SEWER, WATER AND IRRIGATION TESTING COMPLETE AND PASSING PRIOR TO FINE GRADING AND BASE ROCK PLACEMENT.
- E. FINE GRADING TO PLUS OR MINUS ONE-TENTH OF A FOOT PRIOR TO ANY BASE ROCK PLACEMENT.
- F. RETAINING WALL BACKFILL COMPACTION RESULTS.

THE ABOVE CERTIFICATES SHALL BE PERFORMED BY MAJORS ENGINEERING AND THE SOILS ENGINEER AND PAID FOR BY THE OWNER. ANY COSTS FOR REWORKING, RETESTING, OR RESURVEYING DUE TO NON-COMPLIANCE WITH THE SPECIFICATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

33. CALCULATIONS NECESSARY TO DETERMINE QUANTITY OF BASE ROCK. COPIES OF CALCULATIONS SHALL BE FURNISHED TO OWNER AND MAJORS ENGINEER. CONTRACTOR SHALL FURNISH LOAD TICKETS TO OWNER FOR USE IN CHECKING QUANTITY OF BASE ROCK ACTUALLY PLACED ON JOB SITE. OWNER MAY REQUEST BORINGS BY SOILS ENGINEER TO CONFIRM THICKNESS OF BASE ROCK.

TRENCH BACKFILL SHALL BE DONE IN A CONTINUOUS OPERATION AND COMPLETED TO SUBGRADE. AREAS OF MINIMUM COVER SHALL BE PROTECTED.

LANDSCAPE IRRIGATION LINES SHALL BE BURIED A MINIMUM OF TWELVE (12) INCHES BELOW SUBGRADE AND COMPACTED TO 90% MINIMUM.

34. ENCROACHMENT PERMIT REQUIRED FOR ALL WORK WITHIN SAN JOAQUIN COUNTY ROADS.

IMPROVEMENT PLAN NOTES:

1. PRIOR TO TRENCHING FOR ANY SEWER, WATER, OR STORM DRAIN PIPE, THE CONTRACTOR SHALL VERIFY, IN THE FIELD, THE SIZE AND LOCATION OF THE EXISTING PIPE AT THE POINT OF CONNECTION. ANY DEVIATION FROM THE PLANS SHALL BE RESOLVED BY THE DESIGN ENGINEER PRIOR TO TRENCHING.
2. THE CONTRACTOR SHALL COORDINATE THE SEWER, WATER AND STORM DRAIN CONSTRUCTION IN A MANNER TO PREVENT ANY CONFLICTS WHERE UTILITY LINES CROSS EACH OTHER. THE SEWER, STORM DRAIN, AND WATER CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PLANS FOR ALL OTHER UTILITIES FOR THESE IMPROVEMENTS AND FAMILIARIZE THEMSELVES THERWITH AND SHALL NOTIFY THE ENGINEER AND OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY DISCREPANCY FROM THIS PLAN PRIOR TO PROCEEDING.
3. MANHOLE, VALVE POT, METER BOX AND CLEANOUT RIM ELEVATIONS, SHOWN OR NOT SHOWN HEREON ARE APPROXIMATE ONLY AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL RIMS AND COVERS TO THE FINISHED PAVEMENT OR SIDEWALK GRADE, AS APPLICABLE, AFTER THE SITE IS PAVED AND SHALL MAKE ARRANGEMENTS FOR ANY ADDITIONAL PAVING OR CONCRETE WORK AS REQUIRED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AMPLE COVER FOR THE PROTECTION OF ALL INSTALLED UTILITIES DURING THE CONSTRUCTION OF THIS PROJECT.
5. THE CONTRACTOR SHALL SCHEDULE, ARRANGE AND PAY FOR ANY WORK TO BE DONE BY THE SERVING UTILITY COMPANIES IN CONJUNCTION WITH AND NECESSARY FOR THE INSTALLATION OF THE COMPLETE AND OPERABLE UTILITY SYSTEMS SHOWN HEREON, UNLESS OTHERWISE NOTED.
6. THE CONTRACTOR IS TO FURNISH THE OWNER WITH A COPY OF THE PERMITS AND FINAL ACCEPTANCES GRANTED BY THE UTILITY COMPANIES AN/OR AGENCIES INVOLVED.
7. THE CONTRACTOR SHALL SCHEDULE AND ARRANGE WITH THE SERVING UTILITY COMPANY FOR COMPLETE GAS SERVICES TO ALL THE BUILDINGS AND PAD AREAS SHOWN HEREON AND PAY ALL FEES AND PERFORM WORK AS NECESSARY FOR THIS INSTALLATION IN CONJUNCTION WITH ANY WORK TO BE PERFORMED BY THE GAS COMPANY.
8. DIMENSIONS LOCATING CURB AND GUTTER ARE TO FACE OF CURB.
9. WHERE PAVEMENT IS TO BE EXTENDED, EXISTING IMPROVEMENT ENDS MUST BE SAWCUT, ANY A.C. OR P.C.C. PAVEMENT REMOVED MUST BE SAWCUT OR REMOVED TO AN EXPANSION JOINT.
10. ALL CURB, GUTTER AND SIDEWALK WORK SHALL CONFORM TO THE SAN JOAQUIN COUNTY STANDARD SPECIFICATIONS AND STANDARD PLANS.

11. ALL TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH CITY/COUNTY STANDARDS. COMPACTION SHALL BE ACHIEVED BY MECHANICAL MEANS. NO FLOODING, PONDING OR SETTLING SHALL BE PERMITTED.

12. ALL TRENCH BACKFILL WHICH LIES WITHIN EXISTING OR NEW ROADWAY AREAS SHALL CONFORM TO THE ROADWAY AREAS BACKFILL SPECIFICATIONS OF LATEST SAN JOAQUIN COUNTY STANDARD PLAN.

13. THE FOLLOWING SAN JOAQUIN COUNTY STANDARD PLANS ARE APPLICABLE:

A-3	B-6
A-7	B-7
A-8	C-1
A-10	C-2
A-11	C-4
B-2	C-7

THE FOLLOWING THE CITY OF TRACY STANDARD PLANS ARE APPLICABLE:

206	402	411
301	403	423
302	404	501
303	407	502
309	408	506
401	409	563

14. BENCHMARKS SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR AT LOCATIONS SHOWN.

15. STRIPING SHALL BE DONE WITH THERMOPLASTIC AND REFLECTIVE MARKERS.

16. LOT SERVICES, FIRE HYDRANT LATERALS, GAS AND TELEPHONE LINES, AND ALL OTHER UNDERGROUND UTILITIES SHALL BE INSTALLED PRIOR TO CURB, GUTTER AND SIDEWALK CONSTRUCTION AND STREET PAVING.

17. THE THICKNESS OF SUBBASE, BASE AND SURFACING TO BE DETERMINED BASED ON TRAFFIC INDEX AND SOIL TEST FOR "R" VALUE TAKEN AFTER ROUGH GRADING AT THE LEVEL OF THE STREET SUBGRADE.

18. ASBESTOS CEMENT PIPE (ACP) OR FITTINGS SHALL NOT BE USED.

STORM DRAIN

19. STORM DRAIN PIPE SHALL BE R.C.P. CLASS III OR ADS N-12.

20. ALL STORM DRAIN CONSTRUCTION SHALL PROCEED FROM THE DOWNSTREAM CONNECTION TO THE UPSTREAM TERMINUS.

WATER

21. WATER MAINS SHALL BE CLASS 50 DUCTILE IRON PIPE WITH POLYETHYLENE ENCASEMENT MEETING CURRENT AWWA SPECIFICATIONS AS REQUIRED BY THE CITY OF TRACY.

22. ALL WATER LINES SHALL BE PRESSURE TESTED, DISINFECTED, FLUSHED AND TESTED FOR BACTERIA IN CONFORMANCE WITH THE CITY OF TRACY SPECIFICATIONS PRIOR TO FINAL ACCEPTANCE BY THE CITY.

23. CONCRETE THRUST BLOCKS SHALL BE INSTALLED ON ALL WATER LINES AT ALL BENDS, ELBOWS, TEES AND WHERE DIRECTED BY THE ENGINEER AND DESIGNATED INSPECTOR.

24. WATER SERVICES AND METERS SHALL BE FURNISHED AND INSTALLED BY THE DEVELOPER OR CONTRACTOR.

SANITARY SEWER

25. ALL SANITARY SEWER MAINS SHALL BE TELEVISION INSPECTED (TAPES SHALL BE GIVEN TO THE CITY OF TRACY), FLUSHED WITH AN APPROVED SEWER BALL AND PASS A LEAKAGE TEST IN CONFORMANCE WITH CITY OF TRACY STANDARD SPECIFICATIONS PRIOR TO ACCEPTANCE BY THE CITY. ALL TESTING SHALL BE PERFORMED AFTER THE COMPACTION FOR STREET BASE ROCK AND PRIOR TO PAVING.

26. SANITARY SEWER PIPE SHALL BE VITRIFIED CLAY (VCP), OR ADS N-12.

27. ALL SEWER CONSTRUCTION SHALL PROCEED FROM THE DOWNSTREAM CONNECTION TO THE UPSTREAM TERMINUS.

28. SEWER STUBS SHALL BE PLUGGED AT THE POINT OF TERMINUS SHOWN HEREON AND THE ENTIRE SYSTEM SHALL THEN BE TESTED IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS AND GOVERNING AGENCY REQUIREMENTS. NO BUILDING CONNECTIONS SHALL BE MADE TO THE LATERALS UNTIL THE ENTIRE SYSTEM HAS BEEN TESTED, APPROVED AND ACCEPTED BY THE CITY OF TRACY. FINAL AIR LEAKAGE TESTS SHALL BE MADE AFTER ALL BACKFILL AND BASE PREPARATION INCLUDING COMPACTION HAS BEEN COMPLETED.

29. ENCROACHMENT PERMIT REQUIRED FOR ALL WORK WITHIN PUBLIC RIGHT OF WAY.

30. REFER TO OFFSITE IMPROVEMENT PLAN SPECIFICATIONS FOR FURTHER DETAILS OF INSTALLATION FOR ONSITE IMPROVEMENTS.

31. CITY OF TRACY APPROVED BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED BEFORE TIE INS OF THE WATER LATERALS FROM THE PROPERTIES TO THE EXISTING WATER STUBS.

PROPERTY OWNER/OWNERS (KING & LYONS) WILL OBTAIN INDIVIDUAL PERMITS FROM THE CITY FOR TIE INS TO WATER AND SEWER FROM THE EXISTING STUBS. INSTALLATION OF CONNECTION SHALL COMPLY WITH THE CITY OF TRACY REQUIREMENTS AND THE WORK SHALL BE INSPECTED BY THE CITY. COST OF INSPECTION SHALL BE BORNE BY THE PERMITEE.

32. WATER STUBS SHALL NOT STICK ABOVE GROUND AND SHALL BE BURIED. FOR WATER STUBS, USE SIMILAR CITY STANDARD DETAIL # 409.

DATE: SEPT. 1991
SCALE: NONE
DESIGNED:
DRAWN: H.R.G.
CHECKED: KCC/AMS
PROJ. ENGR.: MCH
PROJ. MGR.: WG

NO. BY DATE REVISIONS

Majors Engineering, Inc.
100 PARK PLACE, SUITE 220, SAN RAMON, CA 94583
(415) 820-2423

150 EGD WAY
NAPA, CA 94945
(415) 892-0333

2535 CAPITOL OAK DR., SUITE 140
SACRAMENTO, CA 95833
(916) 441-7570

PATTERSON PASS BUSINESS PARK
SUBDIVISION OF TRACT NO. 2450

GENERAL NOTES

CALIFORNIA
SAN JOAQUIN COUNTY

SHEET 2 OF 12 SHEETS
M.J.M. JOB NO.: 3296
M.J.M. CAD FILE: 3296GN.DWG

AS BUILT

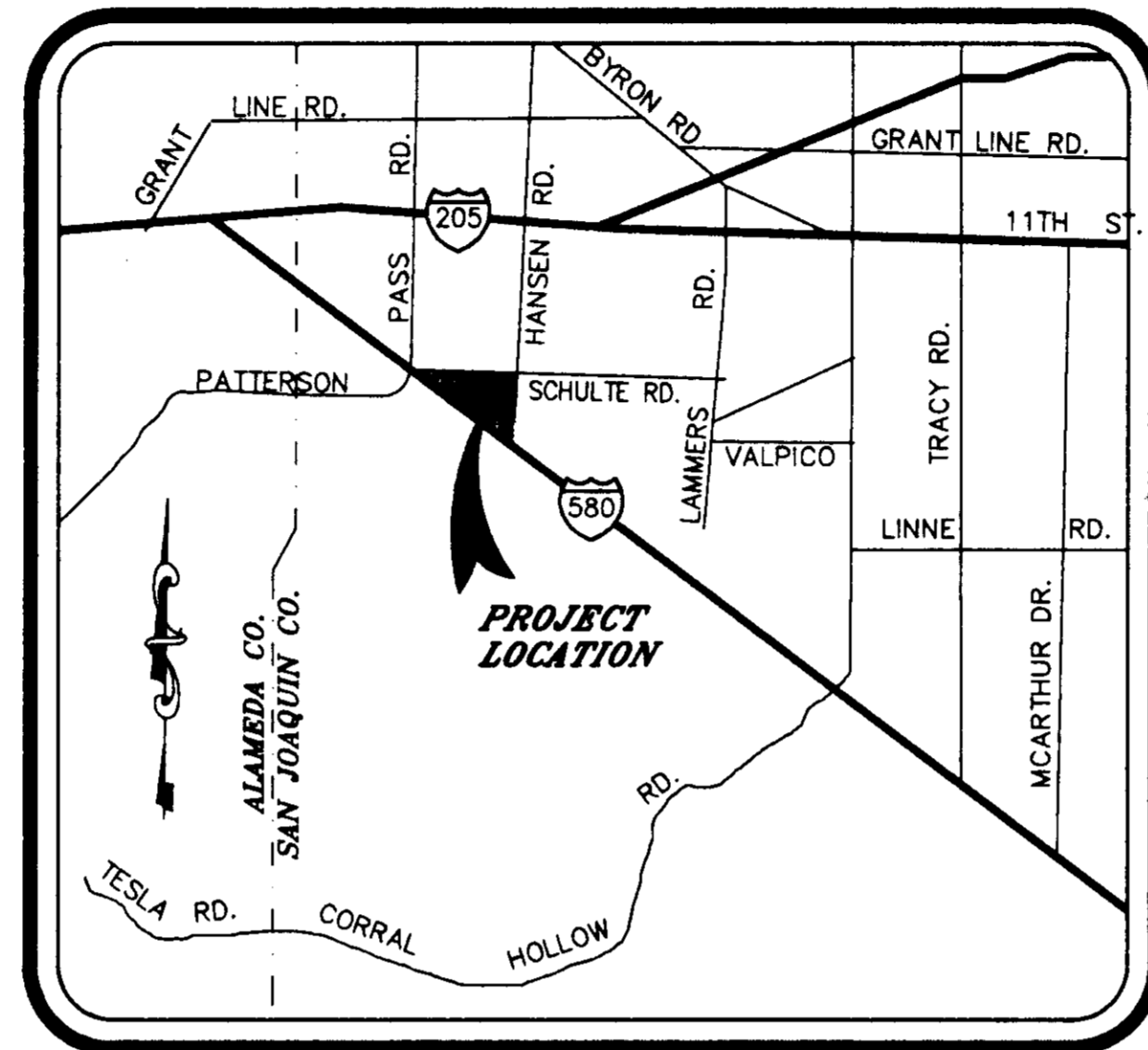
IMPROVEMENT PLAN

PATTERSON PASS BUSINESS PARK

SUBDIVISION OF TRACT NO. 2450

SAN JOAQUIN COUNTY CALIFORNIA

SHEET INDEX	
SHEET NO.	TITLE
1	COVER SHEET
2	GENERAL NOTES
3-3A-3B	TYPICAL SECTIONS AND DETAILS
4	MASTER UTILITY PLAN
5	IMPROVEMENT PLAN
6	IMPROVEMENT PLAN
7	IMPROVEMENT PLAN
8	IMPROVEMENT PLAN
9	IMPROVEMENT PLAN
10	IMPROVEMENT PLAN
11	CURB RETURN & STORM DRAIN PROFILES
12	SIGNING AND STRIPING PLAN

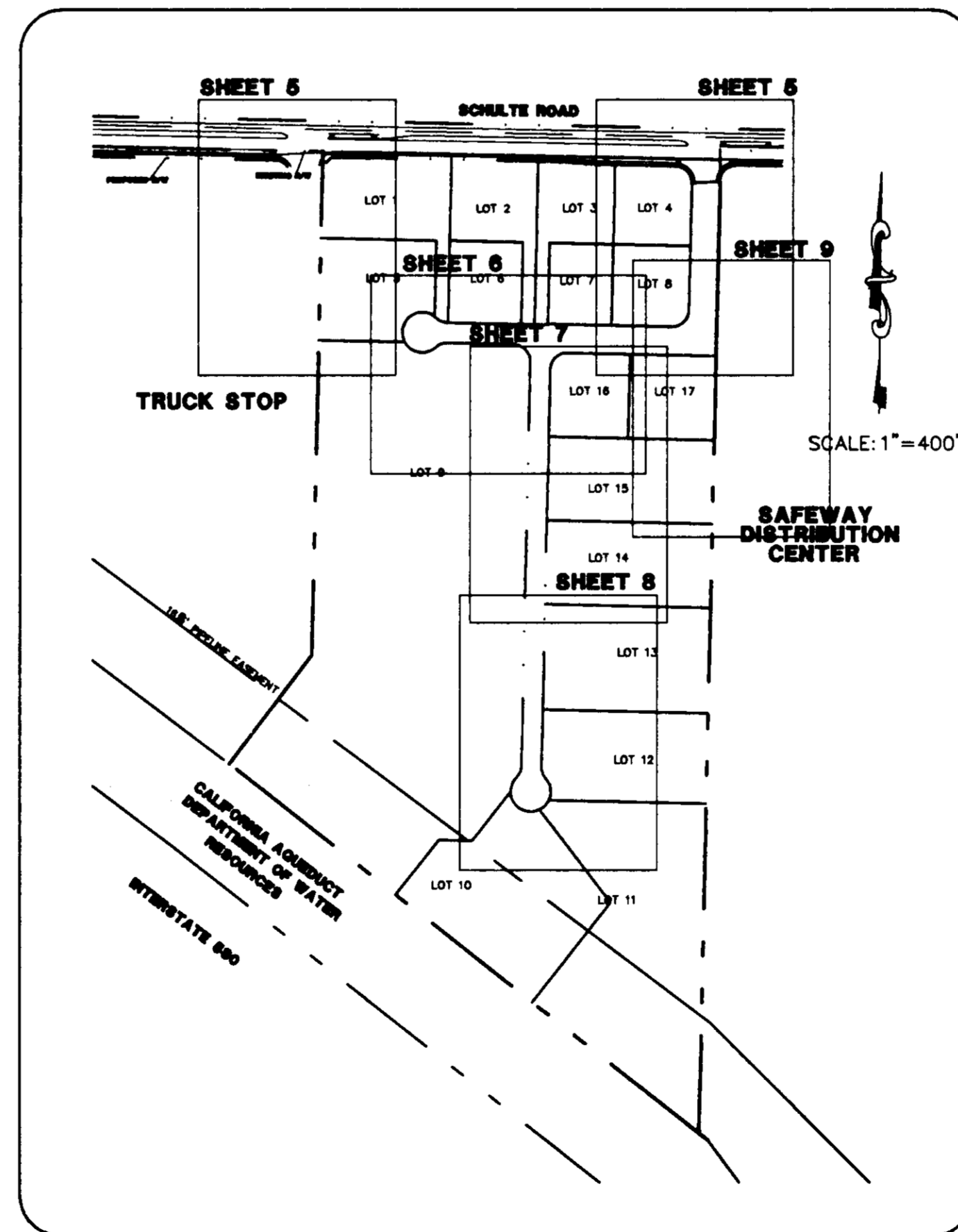


VICINITY MAP

NOT TO SCALE

PAVEMENT DESIGN CHART						
STREET NAME	A.C.	A.B.	T.I.	R.	G.E. REQD	G.E. ACTUAL
INDUSTRIAL WAY	5.5"	21"	9.0	5	2.74	2.79
COMMERCE COURT	5.5"	21"	9.0	5	2.74	2.79
CORPORATE COURT	5.5"	21"	9.0	5	2.74	2.79

NOTE: PAVEMENT SECTIONS ARE BASED ON PRELIMINARY R-VALUES



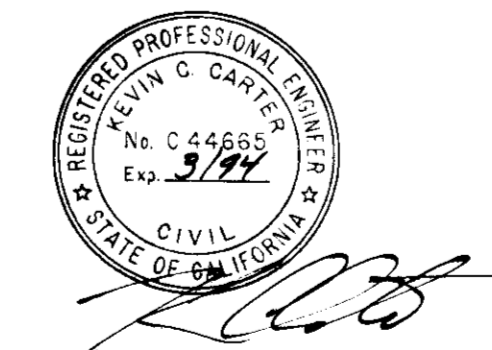
INDEX MAP

SCALE: 1"=400'

LEGEND		
EXISTING	PROPOSED	DESCRIPTION
---	---	SUBDIVISION BOUNDARY
---	---	RIGHT OF WAY
---	---	LOT LINE
---	---	CENTERLINE
---	---	CONCRETE CURB, GUTTER AND SIDEWALK
---	---	TC50.00 TOP OF CURB ELEVATION
---	---	PUBLIC UTILITY EASEMENT
---	---	STORM DRAIN MANHOLE, LINE AND CATCH BASIN
---	---	FLUSHING INLET, SANITARY SEWER LINE LATERAL AND MANHOLE
---	---	WEST SIDE IRRIGATION DISTRICT LINE
---	---	WATER MAIN, VALVE AND BLOWOFF
---	---	FIRE HYDRANT ASSEMBLY
---	---	ELECTROLIER
---	---	LOT NUMBER
---	---	HANDICAP RAMP
---	---	SOUNDWALL
---	---	BARRICADE
---	---	AIR RELEASE VALVE
---	---	MONUMENT
---	---	R/W RIGHT OF WAY
---	---	TC TOP OF CURB
---	---	BC BEGIN CURVE
---	---	EC END CURVE
---	---	GB GRADE BREAK
---	---	CB CATCH BASIN
---	---	MH MANHOLE
---	---	FI FIELD INLET
---	---	INV. INVERT
---	---	BO BLOW-OFF
---	---	ARV AIR RELEASE VALVE
---	---	EX. OR (E) EXISTING
---	---	DW DOMESTIC WATER LINE
---	---	FW FIRE SERVICE LINE
---	---	GR GRATE
---	---	SDFM STORM DRAIN FORCE MAIN

UTILITY SERVICES FOR SANITARY SEWER AND WATER PROVIDED BY:
WITHIN RIGHT OF WAY PROVIDED BY:

Kuldeep C. Sharma 2/26/92
CITY OF TRACY PUBLIC WORKS CITY ENGINEER DATE



RECORD DRAWING

THROUGH A VISUAL INSPECTION OF THE SITE AFTER CONSTRUCTION, AND CONVERSATIONS WITH THE CONTRACTOR, MAJORS ENGINEERING AGREES THAT THIS PLAN GENERALLY REPRESENTS THE IMPROVEMENTS INSTALLED AT THE PROJECT.

Kevin C. Carter 2/17/93
KEVIN C. CARTER C44665
MAJORS ENGINEERING

APPROVALS

APPROVED BY: (FOR SANITARY SEWER AND WATER SYSTEMS ONLY)

Kuldeep C. Sharma 2/26/92
CITY OF TRACY PUBLIC WORKS CITY ENGINEER DATE

APPROVED BY: (APPROVED FOR ROADWAY AND DRAINAGE ONLY)

Henry W. Hirata 2/28/92
HENRY W. HIRATA SAN JOAQUIN COUNTY DIRECTOR OF PUBLIC WORKS DATE

PREPARED UNDER THE DIRECTION OF:
[Signature] 2/92
DATE

AS BUILT

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PATTERSON PASS BUSINESS PARK
SUBDIVISION OF TRACT NO. 2450

COVER SHEET

SHEET 1 OF 12 SHEETS
M.J.M. JOB NO.: 3296
M.J.M. CADD FILE: 3296PI1.DWG

DATE: 10/15/91
SCALE: NONE
DESIGNED: H.R.C.
DRAWN: H.R.C.
CHECKED: KCC-AMS
PROJ. ENGR.: MGH
PROJ. MGR.: WC

2535 CAPITOL OAK DR, SUITE 140
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NOVA TO CO 94945
(415)892-0333

CALIFORNIA

SAN JOAQUIN COUNTY

NO. BY DATE

SU 21090