

2.5" ϕ Holes

Axis of arm

ES-6S

C

D1

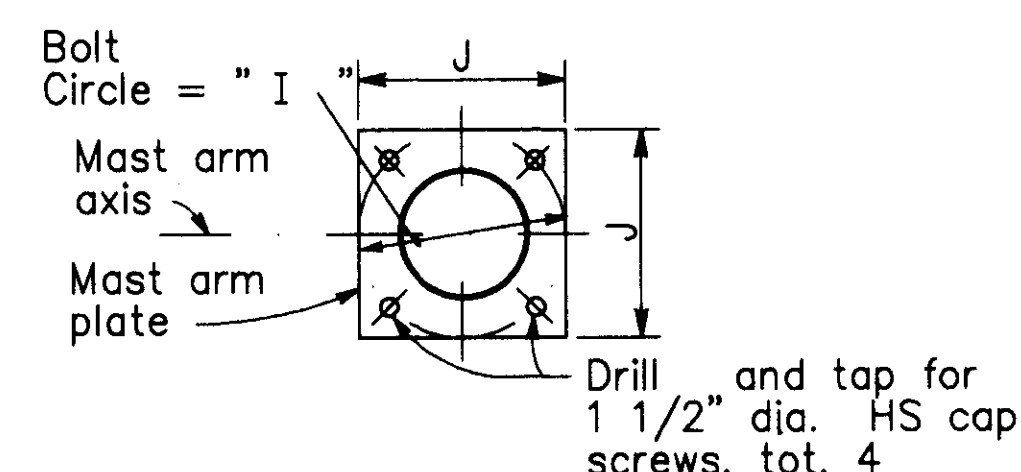
#4 Spiral @ 6"
hook at terminations

2" Min. Cir.

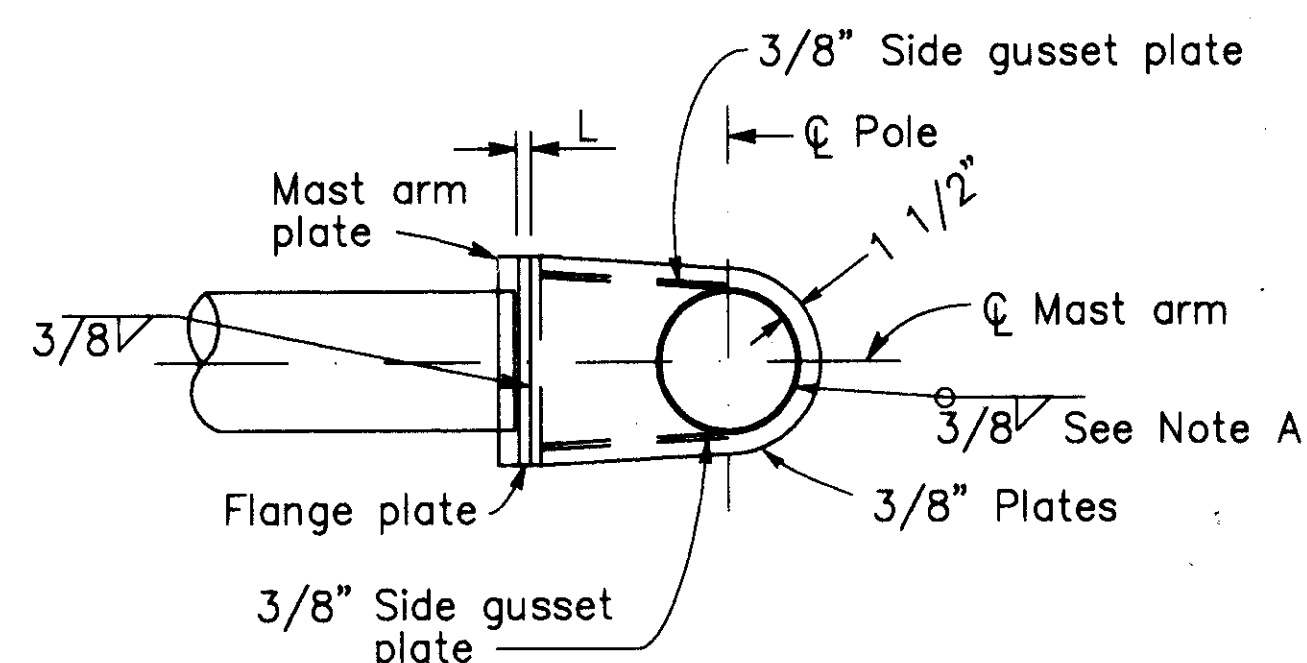
#8 tot. 12

36"

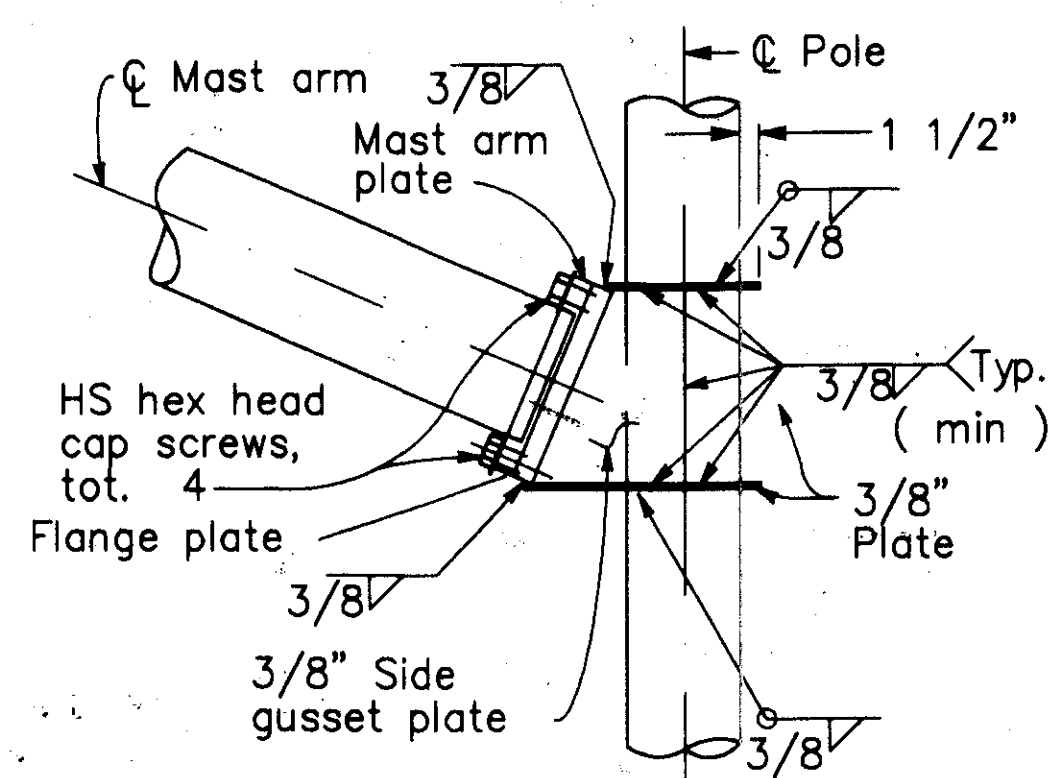
DESIGN AASHTO Standard Specifications for structural supports for Highway Signs, Luminaires and Traffic Signals 1994.
Design Fy: 48 KSI max. for sheet steel.
Wind velocity: 80 mph ISOTACH



MAST ARM PLATE



PLAN



ELEVATION

SINGLE ARM CONNECTION DETAIL

[illegible]

~~RECORD DRAWINGS~~

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William C. Sun C057664 12/31/01
RCE No. Exp. Date
Date: 3/16/01

Pole Type	Load Case	Wind Velocity km/h	POLE DATA			BASE PLATE DATA					Luminaire Arm	Signal Arm	CIDH PILE FOUNDATION			
			A Height	Min OD		Thickness	C	D1	Thickness	Anchor Bolts						
				Base	Top					Size			Bolt Circle	Diameter	Depth	Reinforced
60-5-80	5	80			0.3125"	23"	23"	2"	2 1/4"ø x 60" x 6"	23"	6'- 15'	65'	36"	16'-0"	Yes	
61-5-80				16"												
61A-5-80			35'	11 1/8"												

LUMINAIRE ARM DATA				
M Projected Length	N Rise	Min OD at Pole	Thickness	P Mounting Height 30'-0" Pole 35'-0" Pole
(ft.)	(ft.)	(in.)		(ft.)
* 15'-0"	4'-9"±	4 1/4"	0.186"	34'-3"± 39'-3"±

* Indicated use 15'-0" projected length unless shown otherwise

PER CALTRANS STANDARD PLAN ES-6RB

CONDUCTOR SCHEDULE **

AWG	CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS															
		RUN NUMBER															
		1	2	3	4	5	6	7	8	9	10						
NO. 14	Ø1					3	3	3	3								
	Ø2			3	3	6	6	3									
	Ø4				3	6	6	3	3	3	3						
	Ø5		3	3	3	3	3										
	Ø6		3	3	3	6	6	3	3								
	Ø8	3	3	3	3	3	3										
	Ø2P				2	4	4	2									
	Ø6P		2	2	2	4	4	2	2	2							
	Ø8P	2	2	2	2	2	2										
	PPB(Ø2P)					1	2	2	1								
	PPB(Ø6P)		1	1	1	2	2	1	1	1	1						
	PPB(Ø8P)		1	1	1	1	1										
	12V NEUTRAL	1	1	1	1	2	2	1	1	1	1						
	PEU					3											
SPARES		3	3	3	3	6	6	3	3	3	3						
2 Ø3		3	3	3	3	6	6	3	3	3	3						
TOTAL NO. 14		12	22	25	31	59	56	25	19	13	11						
NO. 10	LUMINAIRE	2	2	2	2	4	4	2	2	2	2						
	120V NEUTRAL	1	1	1	1	2	2	1	1	1	1						
	FLASHER		3	3	3	6	6	3									
	TOTAL NO. 10	3	6	6	6	12	12	6	3	3	3						
NO. 6	SERVICE						2										
	TOTAL NO. 6						2										
DLC	Ø1			2	2	2	2										
	Ø2					6	6	6									
	Ø4					5	5	5	5	5	5						
	Ø5					2	2	2									
	Ø6	5	6	6		6	6										
	Ø8					8	8										
	TOTAL DLC	5	8	8		29	29	13	5	5	5						
CONDUIT SIZE (INCHES)		2	3	3	3			3	3	3	3						

→ TWO 3"

* EXISTING CONDUIT TO REMAIN.

**** CONTRACTOR SHALL DISCONNECT, PULL OUT ALL EXISTING WIRING AND PULL IN NEW CONDUCTORS.**

EQUIPMENT SCHEDULE

NO.	STANDARD			VEHICLE SIGNAL MOUNTING		PEDESTRIAN SIGNAL		PPB		HPS LUMINAIRE (WATTS)	G7-SIGN	REMARKS *
	TYPE	SIG. MA (FEET)	LUM. MA (FEET)	MAST ARM	POLE	Ø	MOUNTING	Ø	ARROW		WORDING	
(A)	29A-5-80	55	15	MAS MAS	SV-1-T	8P	SP-1-T	-	-	250W HPS	Patterson Road	RELOCATE EXISTING POLE AND EQUIPMENT. INSTALL Ø8 SIGNAL HEAD ON SMA AND ASSIGN Ø3 FOR SIGNAL HEAD AT END OF SMA.
(B)	15	-	15	-	SV-2-TB	6P	SP-1-T	6P 8P	→ ←	250W HPS	-	NEW POLE AND EQUIPMENT. RELOCATE EXISTING Ø6 SIGNAL HEAD.
(C)	1-A	-	-	-	-	-	-	-	-	-	W-41	RELOCATE EXISTING POLE AND EQUIPMENT.
(D)	26A-4-80	40	15	MAS	SV-1-T	8P	SP-1-T	8P	→	250W HPS	Schuttle Road	NEW POLE. Ø5 SIGNAL HEAD AND PED. SIGNAL ASSIGNMENT. RELOCATE OTHER EQUIPMENT.
(E)	15	-	15	-	SV-1-T	2P	SP-1-T	2P	←	250W HPS	-	EXISTING POLE AND EQUIPMENT TO REMAIN.
(F)	29A-5-80	55	15	MAS	SV-1-T	-	-	-	-	250W HPS	Patterson Road	NEW POLE AND EQUIPMENT.
(G)	15	-	15	-	-	8P	SP-1-T	2P	←	250W HPS	-	NEW PED. SIGNAL ASSIGNMENT WITH EXISTING POLE AND EQUIPMENT TO REMAIN.
(H)	1-B	-	-	-	SV-2-T	2P	SP-1-T	-	-	-	-	EXISTING POLE AND EQUIPMENT TO REMAIN.
(I)	1-A	-	-	-	-	-	-	-	-	-	W-41	EXISTING POLE AND EQUIPMENT EQUIPMENT TO REMAIN.
(J)	61A-5-80***	65	15	MAS MAS	SV-2-TB	-	-	-	-	250W HPS	Schuttle Road	NEW POLE AND RELOCATE EXISTING EQUIPMENT.
(K)	1-A	-	-	-	-	6P	SP-1-T	-	-	-	-	NEW POLE AND EQUIPMENT.
(L)	15	-	15	-	SV-1-T	-	-	6P	→	250W HPS	-	NEW POLE AND PED. SIGNAL ASSIGNMENT. RELOCATE EXISTING EQUIPMENT.

*** SEE E-3 FOR DETAILS.

NOTE:

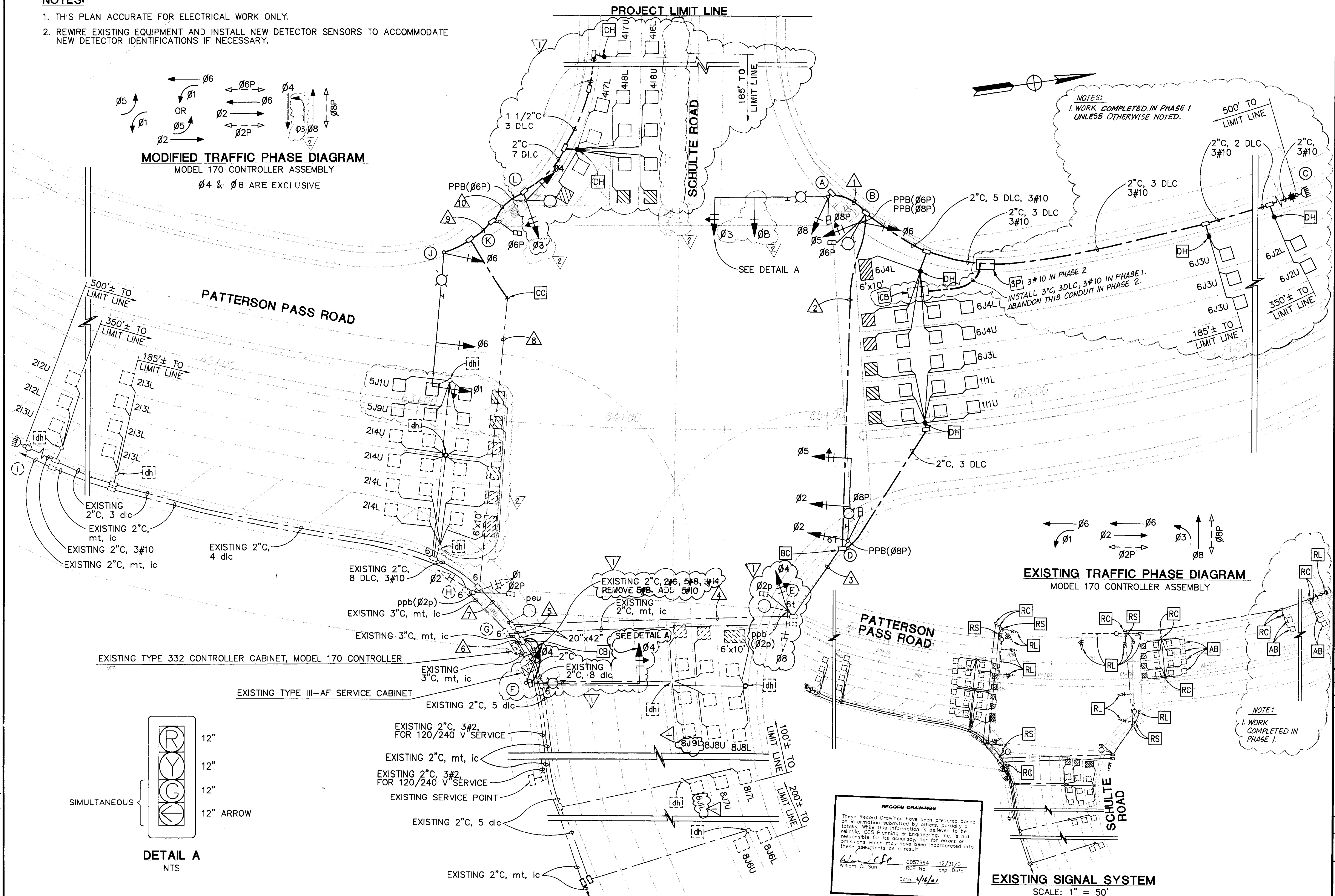
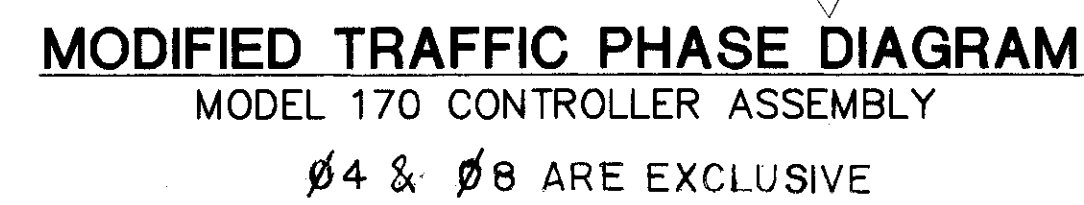
OTHER REQUIREMENT ARE COVERED BY SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS. FOR TYPE OF STANDARD, VEHICLE AND PEDESTRIAN MOUNTING, SEE THE CALTRANS STANDARD PLANS.

RECORD DRAWINGS

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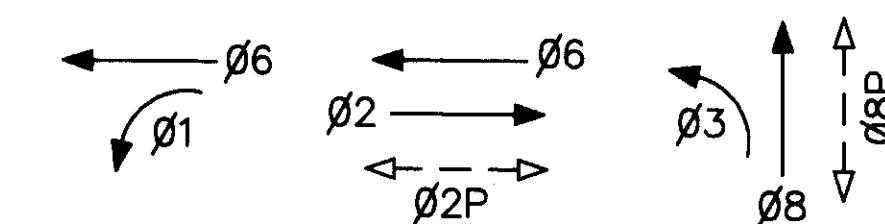
William C. Sun C057864 12/31/01
William C. Sun RCE No. Exp. Date
Date: 3/13/01

1. THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
2. REWIRE EXISTING EQUIPMENT AND INSTALL NEW DETECTOR SENSORS TO ACCOMMODATE NEW DETECTOR IDENTIFICATIONS IF NECESSARY.



EXISTING TRAFFIC PHASE DIAGRAM

MODEL 170 CONTROLLER ASSEMBLY

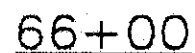
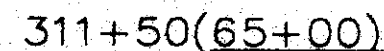
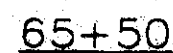


NOTE:
1. WORK COMPLETED IN PHASE 1.

EXISTING SIGNAL SYSTEM
SCALE: 1" = 50'

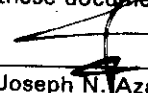
**IMPROVEMENT PLANS
PATTERSON PASS BUSINESS PARK (TRI-STATE/CHENG)
SIGNAL AND LIGHTING
SAN JOAQUIN COUNTY, CALIFORNIA
: KING & LYONS**

[illegible]



RECORD DRAWINGS

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44628	RCE No.	3/31/02
N. Azar		Exp. Date

Date: 12/12/00

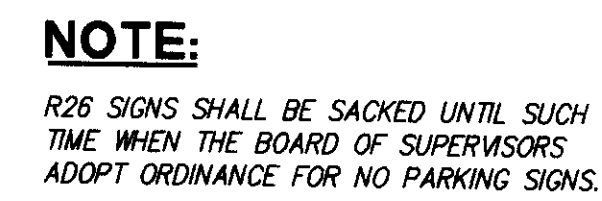
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**Ruggeri -
R Jensen
Jazar & Associates**
ATTORNEYS • LEADERS • SPECIALISTS
8601 OWENS DRIVE, SUITE 155 • PHOENIX, AZ 85028
PHONE: (602) 227-9100 • FAX: (602) 227-9101

6601 OWENS DRIVE, SUITE 155 • PLEASANTON, CA 94588
PHONE: (925) 227-9100 • FAX: (925) 227-9300

0066-1777 (CZG) • Vol. 1 0066-1777 (CZG) • 0066-1777 (CZG)

1

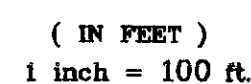
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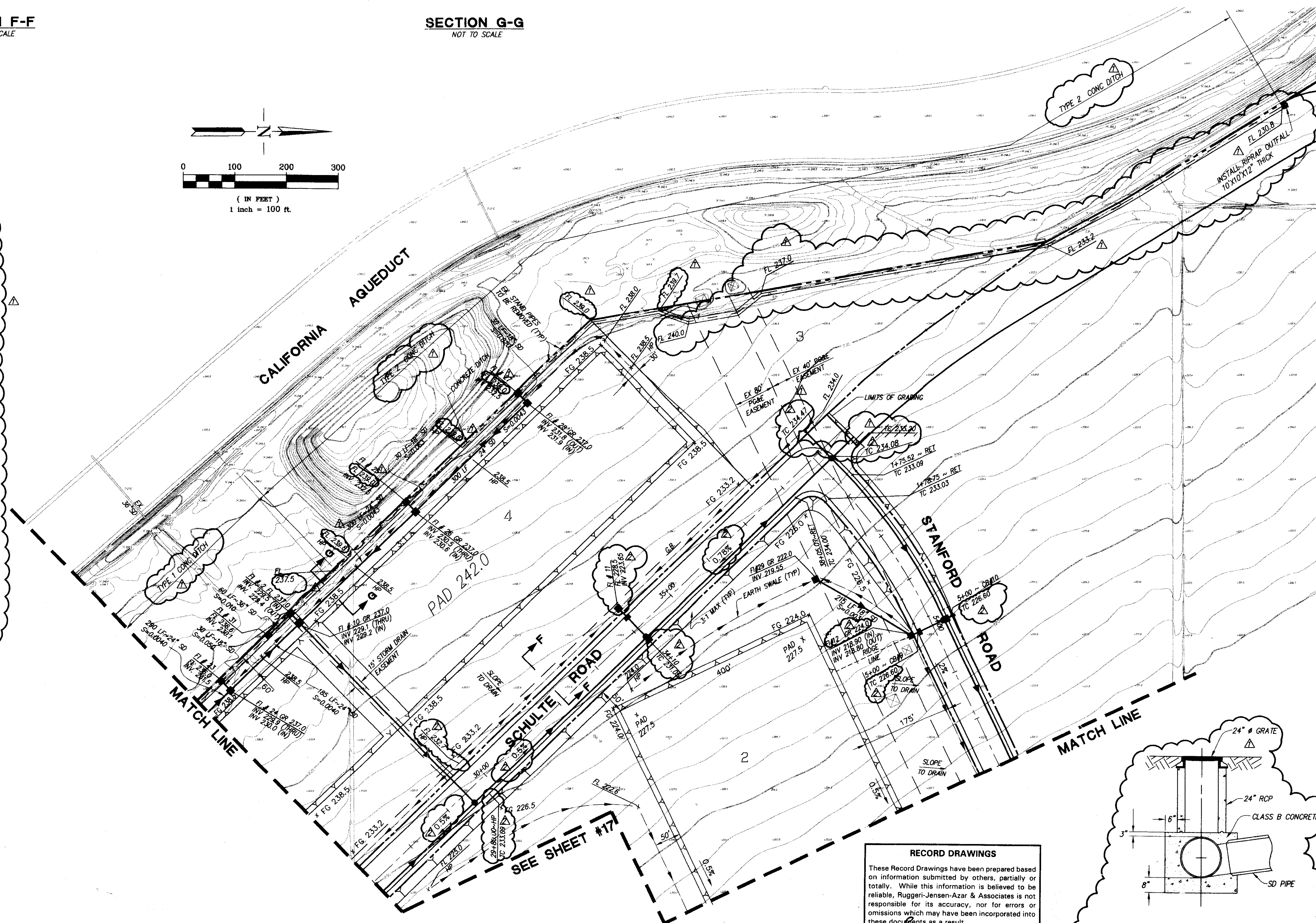
Joseph N. Azar

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213542



FIELD INLET	SCHEDULE
FI #8	TYPE
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2	RCP FI WITH GRATE
3	RCP FI WITH GRATE
4	RCP FI WITH GRATE
5	RCP FI WITH GRATE
6	RCP FI WITH GRATE
7	RCP FI WITH GRATE
8	RCP FI WITH GRATE
9	RCP FI WITH GRATE
10	SDMH BASE WITH GRATE
11	RCP FI WITH GRATE
12	RCP FI WITH GRATE
13	RCP FI WITH GRATE
14	RCP FI WITH GRATE
15	RCP FI WITH GRATE
16	RCP FI WITH GRATE
17	RCP FI WITH GRATE
18	RCP FI WITH GRATE
19	RCP FI WITH GRATE
20	RCP FI WITH GRATE
21	RCP FI WITH GRATE
22	SDMH BASE WITH GRATE
23	RCP FI WITH GRATE
24	SDMH BASE WITH GRATE
25	RCP FI WITH GRATE
26	SDMH BASE WITH GRATE
27	RCP FI WITH GRATE
28	SDMH BASE WITH GRATE
29	RCP FI WITH GRATE
30	RCP FI WITH GRATE
31	RCP FI WITH GRATE



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44628 3/31/02
Joseph N. Azar RCE No. Exp. Date
Date: 12/22/00

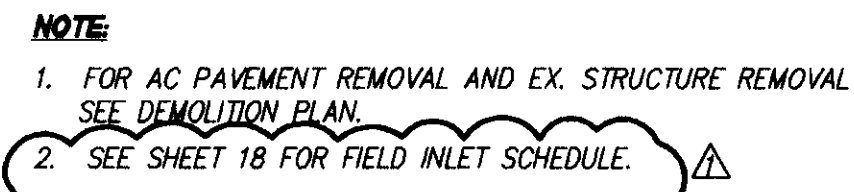
**IMPROVEMENT PLANS --- PHASE 3
PATTERSON PASS BUSINESS PARK
GRADING PLAN
SAN JOAQUIN COUNTY, CALIFORNIA**

SHEET NO.		18	
OF	26	SHEET	
JOB NO. 981007.10			

**Ruggeri -
Ryensen -
Azar & Associates**
BRYAN - 8551 JEWELL DRIVE - SUITE 155 - DALLAS, TEXAS 75247
TEL: 972-343-1111 FAX: 972-343-1112

6601 OWENS DRIVE, SUITE 155 • PLEASANTON, CA 94588
PHONE: (925) 227-9100 • FAX: (925) 227-9300

T:\981007\CONST\100717G.dwg 10-16-98 7:38:10 am PLS_CADD7



RECORD DRAWINGS		
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	44628	3/31/02
Joseph N. Azar	RCE No.	Exp. Date
	Date:	1/22/00

**IMPROVEMENT PLANS --- PHASE 3
PATTERSON PASS BUSINESS PARK
GRADING PLAN
SAN JOAQUIN COUNTY, CALIFORNIA**

**Ruggeri -
Jensen -
Azar & Associates**
6601 OWENS DRIVE, SUITE 155 • P.
PHONE: (925) 227-9100 • FAX: (925) 227-9101

FOR: KING & LYONS

6601 OWENS DRIVE, SUITE 155 • PLEASANTON, CA 94588
PHONE: (925) 227-9100 • FAX: (925) 227-9300

DATE	NK	SHEET REMISIONS	BY	CK	QTY
10-14-98	A	STUB STREET, CONC. DITCH, E1	RF		
10-28-98	A	SD, STREET GRADES	RF		

SCALE
1"=100'
DRAWN
R.F./A.P.M.
CHECKED
E.A.S.
PREPARED
E.A.S.

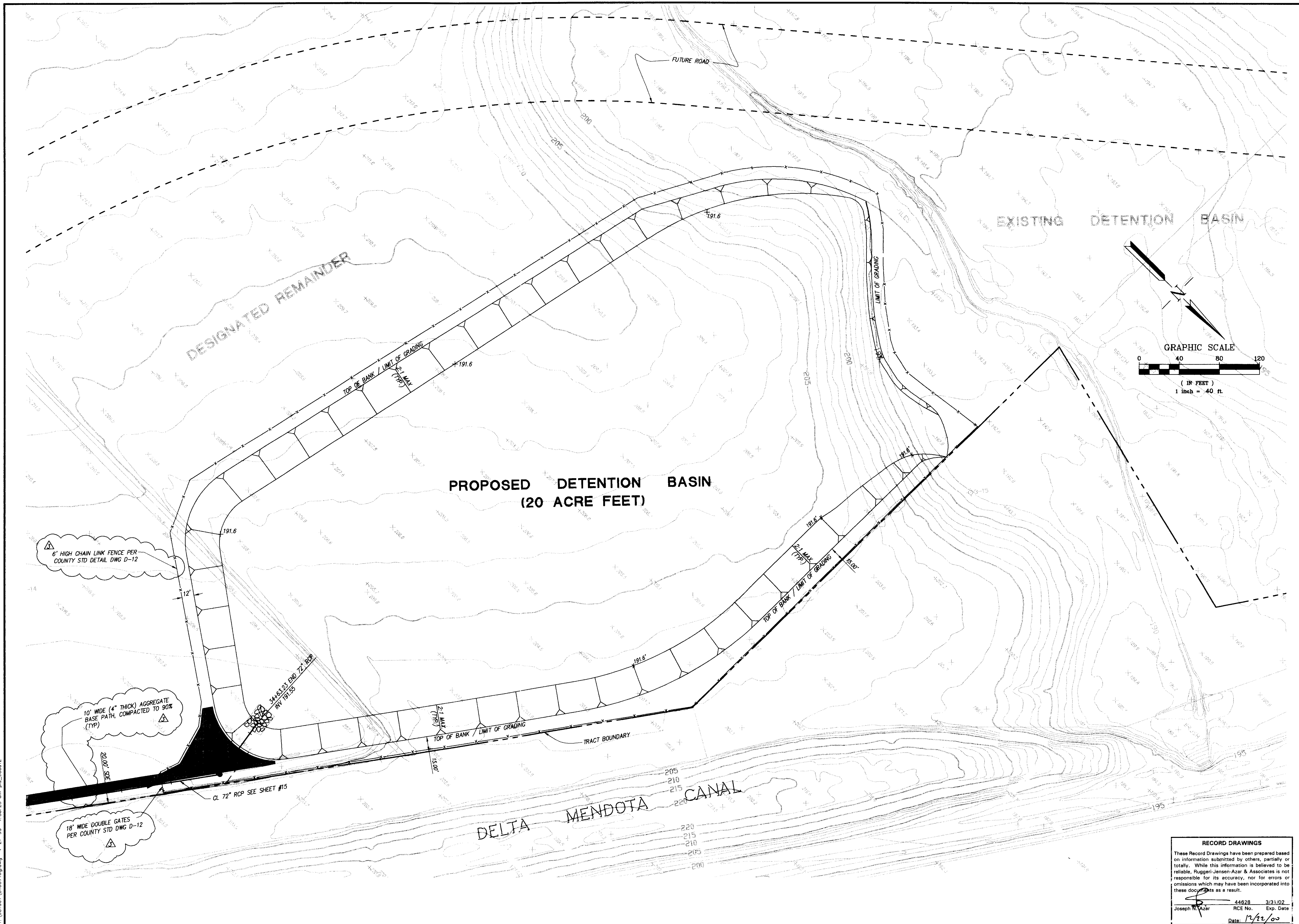
SHEET NO. 17

OF 26 SHEETS

JOB NO. 981007.10

SU 3546

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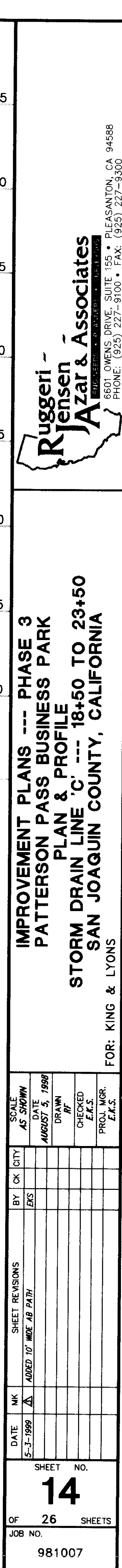
RECORD DRAWINGS	
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DATE	3-3-1999
BY	EKS
CHK	
DATE	3/31/02
BY	Joseph N. Azar
CHK	
DATE	12/12/00
BY	
CHK	

SHEET NO.	
16	
OF 26 SHEETS	
JOB NO. 981007	

IMPROVEMENT PLANS --- PHASE 3	
PATTERSON PASS BUSINESS PARK	
DETENTION BASIN	
SAN JOAQUIN COUNTY, CALIFORNIA	
FOR: KING & LYONS	

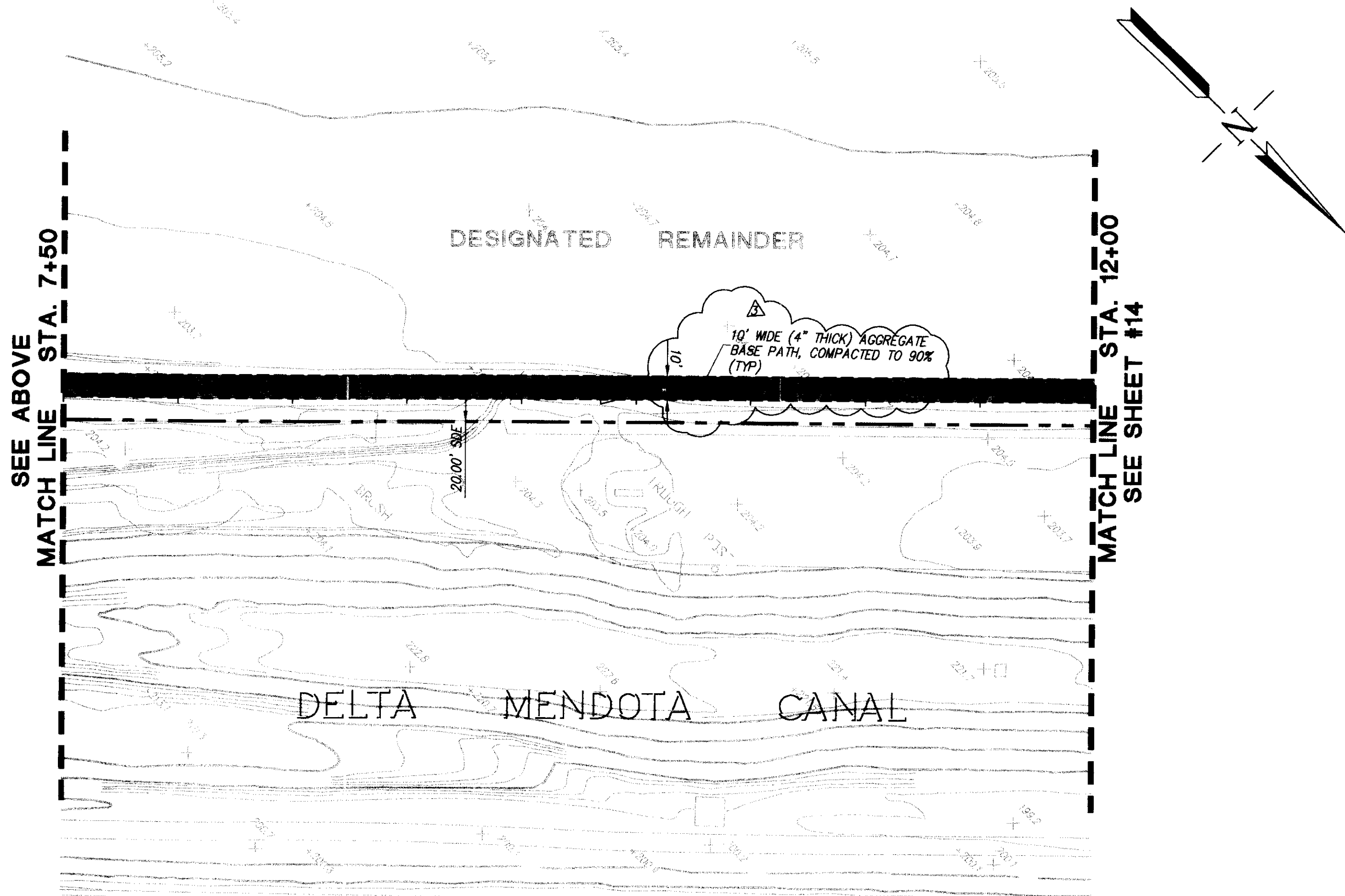
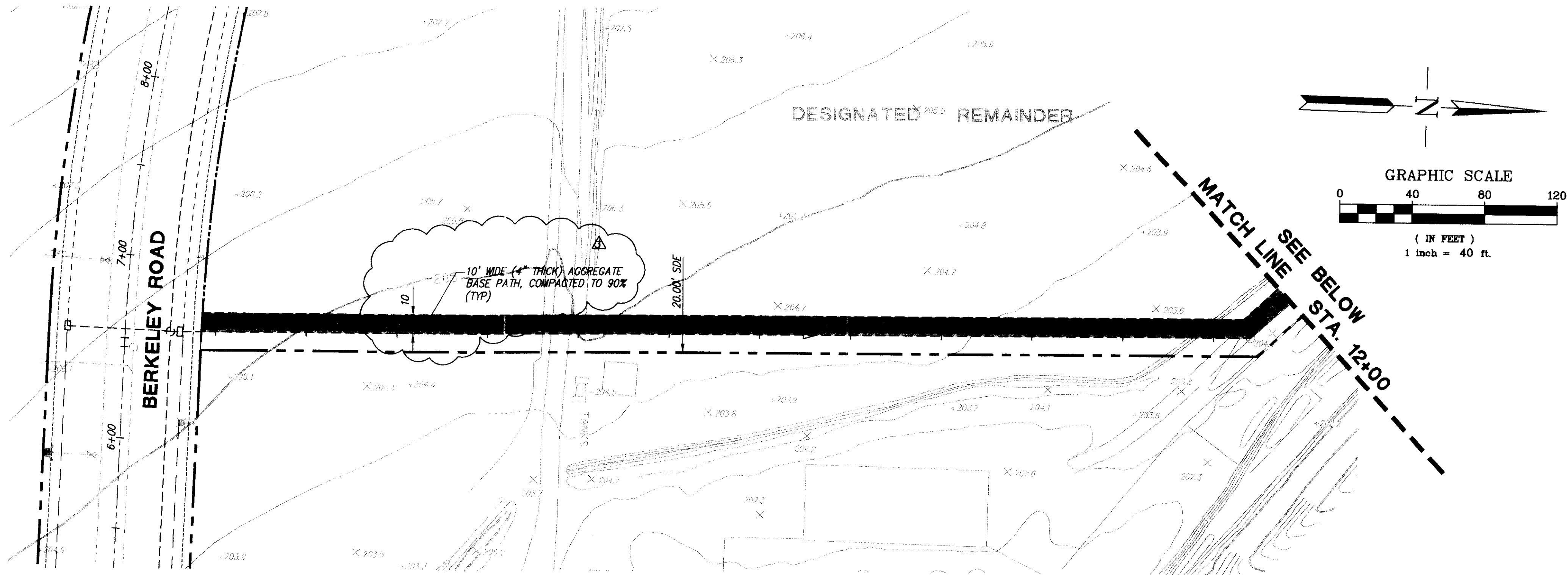
Ruggeri-Jensen-Azar & Associates	
8601 OWENS DRIVE, SUITE 155 • PLEASANTON, CA 94588	
PHONE: (925) 227-9100 • FAX: (925) 227-9300	

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SU 3548

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RECORD DRAWINGS

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Joseph N. Azar 44628 3/31/02
RCE No. Exp. Date
Date: 12/12/00

SHEET NO.
13A
OF 26 SHEETS
JOB NO.
981007

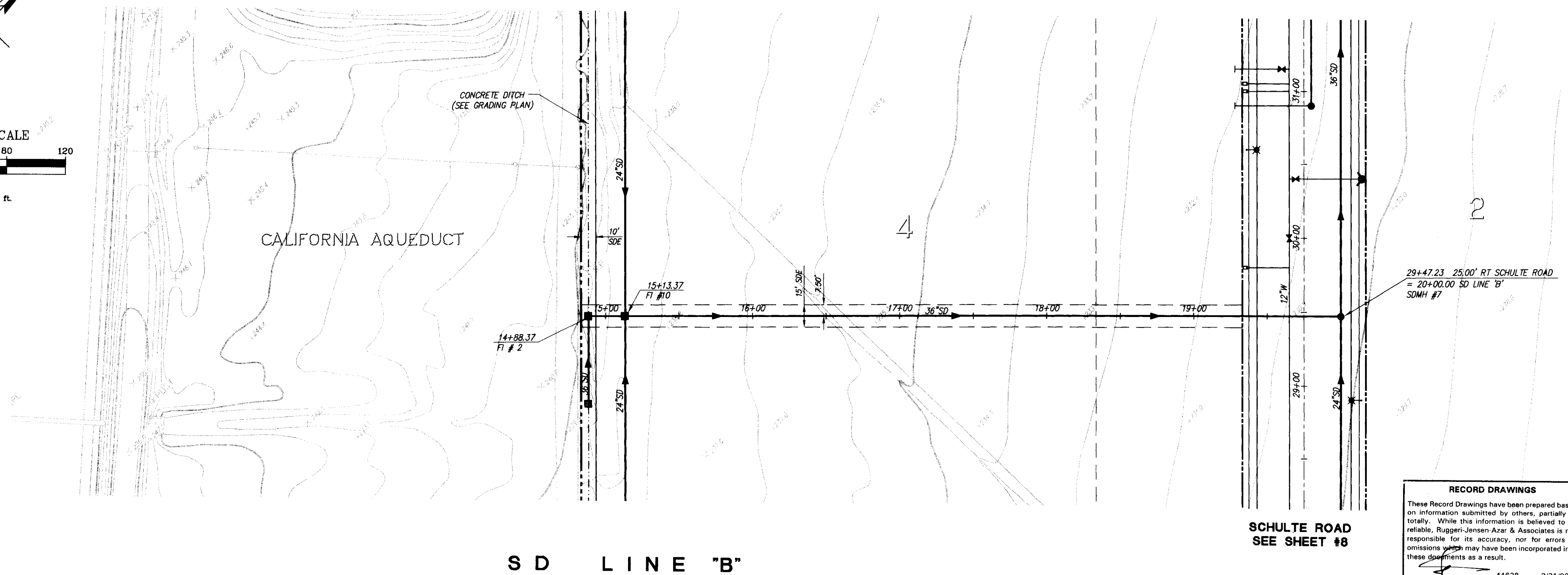
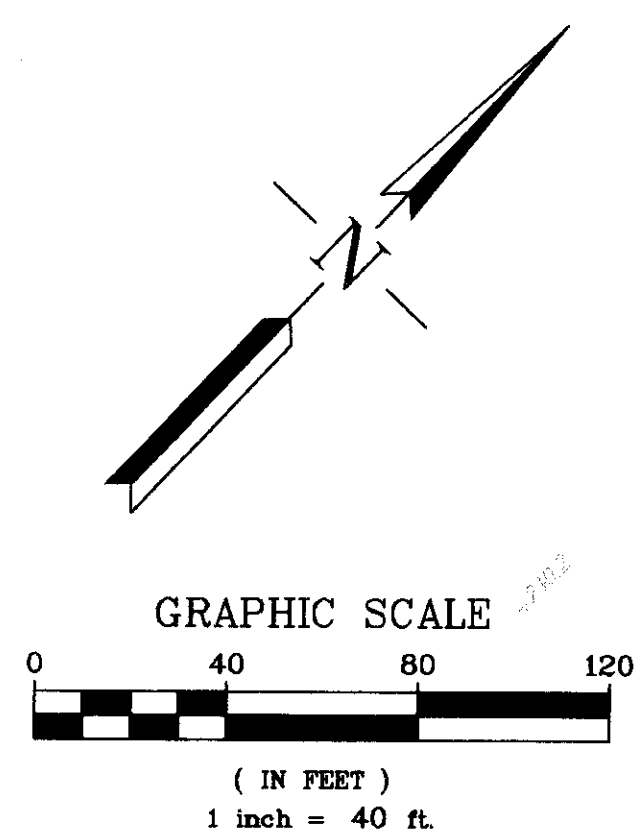
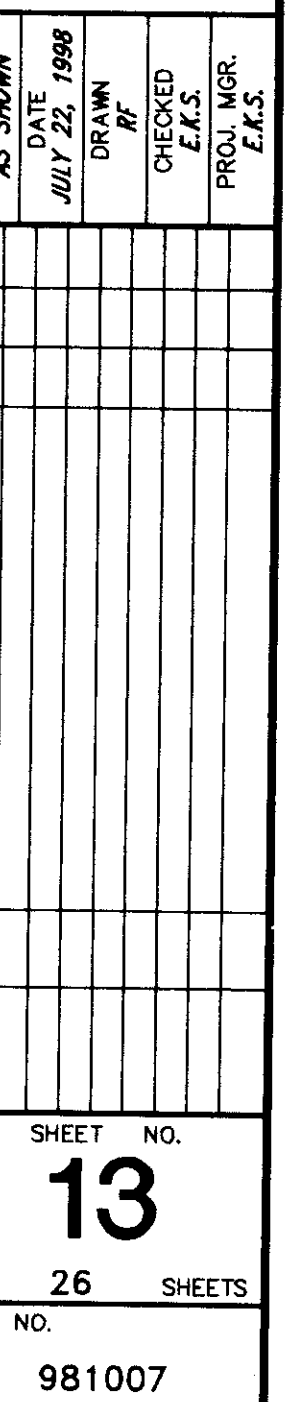
IMPROVEMENT PLANS --- PHASE 3
PATTERSON PASS BUSINESS PARK
PLAN & PROFILE
STORM DRAIN LINE 'C' --- 18+50 TO 23+50
SAN JOAQUIN COUNTY, CALIFORNIA

FOR: KING & LYONS

**Ruggeri -
Jensen -
Azar & Associates**
8501 OWENS DRIVE, SUITE 105, PLEASANTON, CA 94588
PHONE (925) 227-9100 • FAX (925) 227-9300



IMPROVEMENT PLANS --- PHASE 3
PATTERSON PASS BUSINESS PARK
PLAN & PROFILE
SD LINE "B"
SAN JOAQUIN COUNTY, CALIFORNIA
NS



RECORD DRAWINGS

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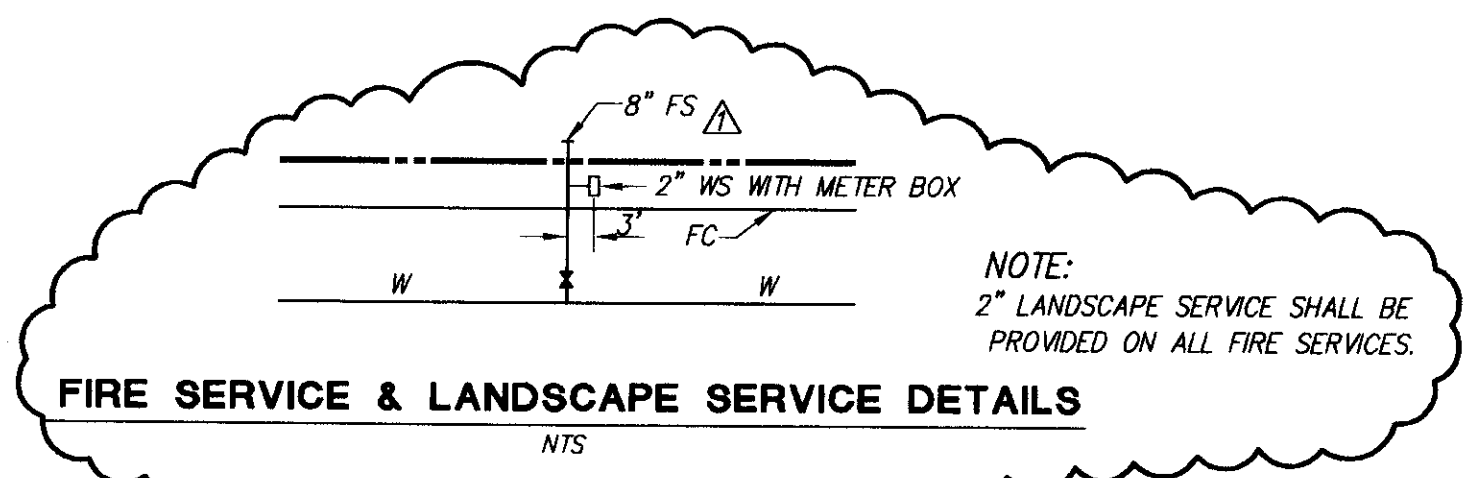


Joseph N. Azar	44628 RCE No.	3/31/02 Exp. Date
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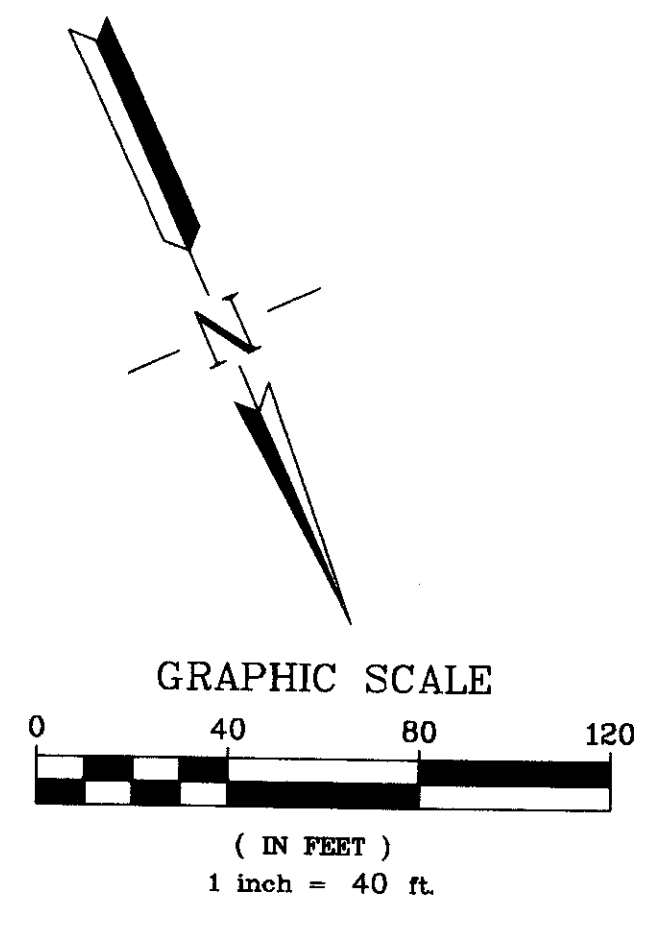
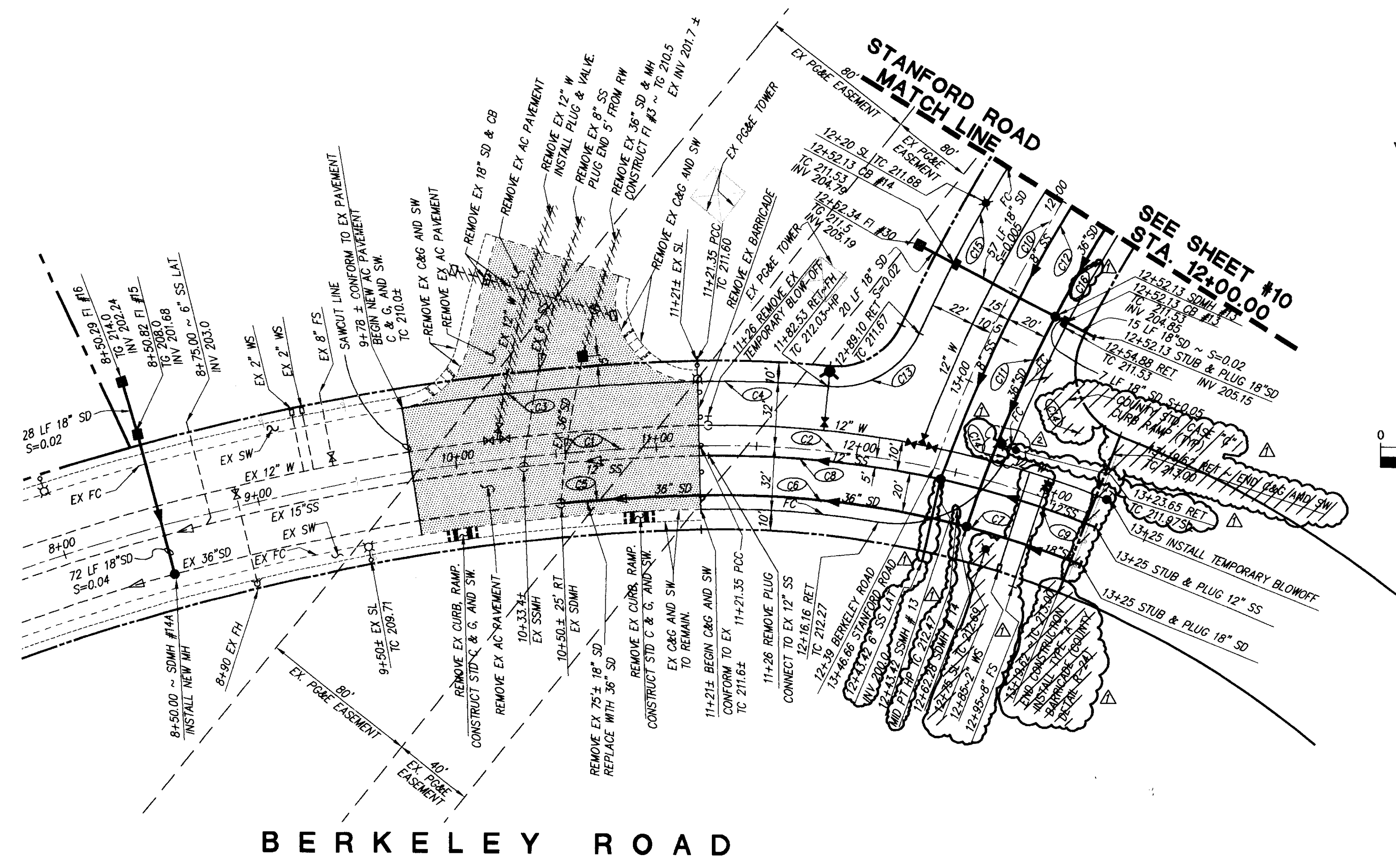
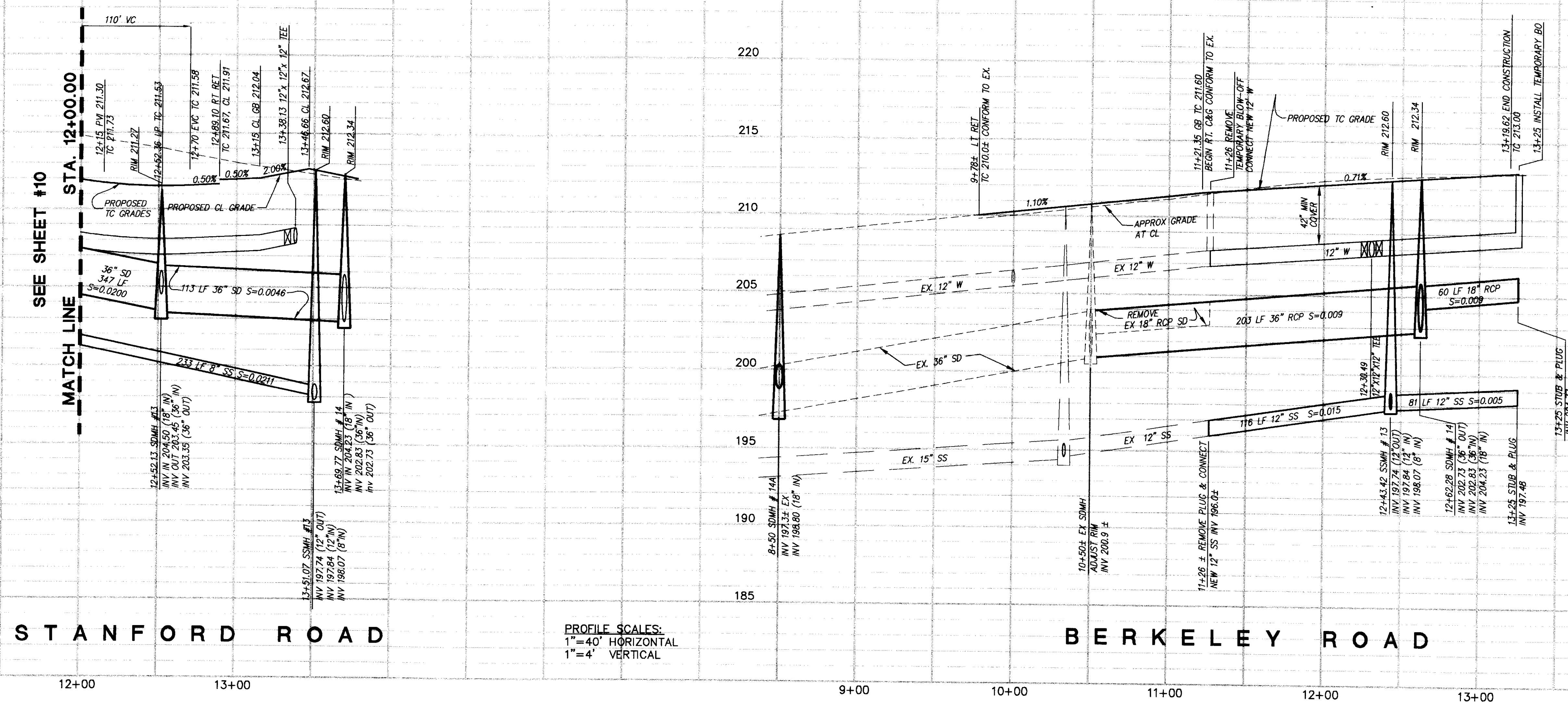
Date: 12/22/00

3581

T:\981007\8100711p.dwg 10-15-98 3:30:15 PM PLS CAD37



CURVE	DESC	RADIUS	LENGTH	DELTA
C1	CL	1100.00'	466.61'	24°18'15"
C2	CL	500.00'	198.28'	24°43'15"
C3	FC	1132.00'	147.75'	07°28'43"
C4	FC	532.00'	65.10'	07°00'40"
C5	SD	1075.00'	69.58'	03°42'30"
C6	SD	475.00'	83.58'	10°04'54"
C7	SD	475.00'	109.89'	13°15'20"
C8	SS	495.00'	106.15'	12°17'15"
C9	SS	495.00'	90.86'	10°31'01"
C10	CL	700.00'	229.97'	18°49'23"
C11	SD	675.00'	244.03'	20°42'51"
C12	SS	695.00'	232.70'	19°11'02"
C13	FC	45.00'	55.78'	71°00'59"
C14	FC	60.00'	81.37'	77°41'54"
C15	FC	732.00'	180.29'	14°06'42"
C16	FC	668.00'	197.30'	16°56'23"



RECORD DRAWINGS	
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Joseph N. Azar	44628 3/31/02
RCE No.	Exp. Date
Date: 12/2/00	

IMPROVEMENT PLANS --- PHASE 3
PATTERSON PASS BUSINESS PARK
PLAN & PROFILE
BERKELEY ROAD
SAN JOAQUIN COUNTY, CALIFORNIA

FOR: KING & LYONS

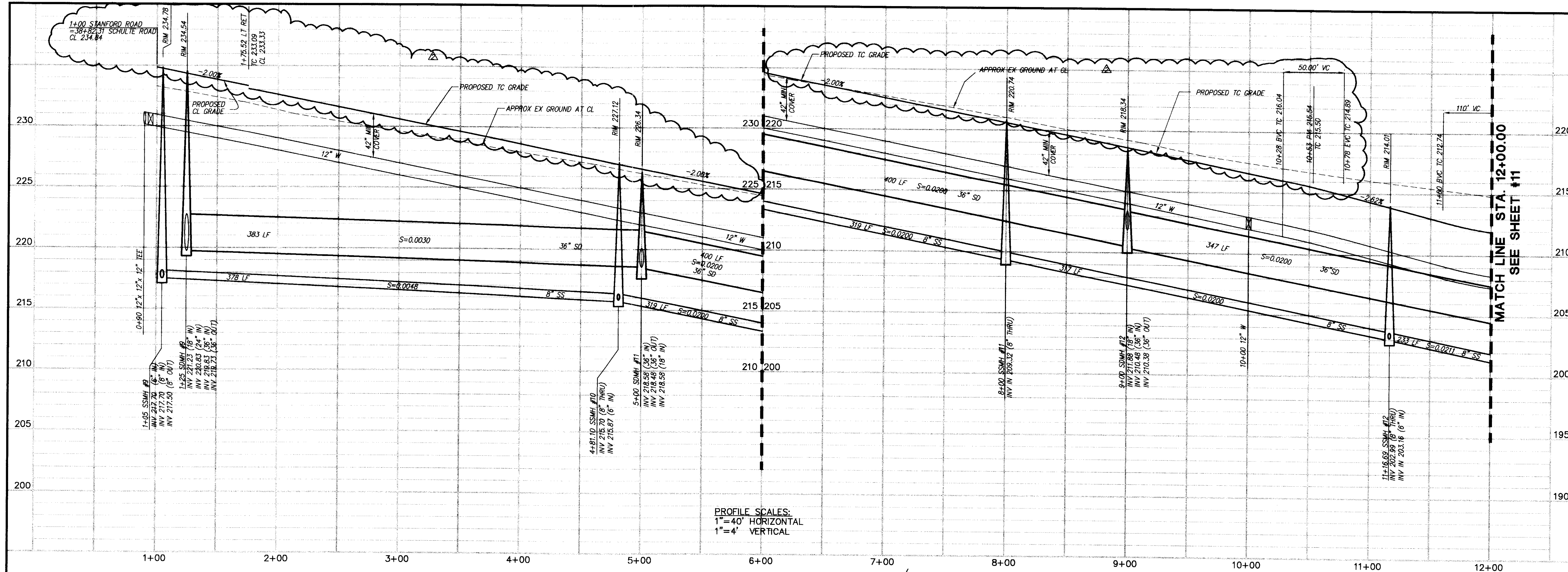
11
OF 26 SHEETS
JOB NO. 981007

Ruggeri-Jensen-Azar & Associates
6601 OWENS DRIVE, SUITE 155 • PLEASANTON, CA 94588
PHONE: (925) 227-9100 • FAX: (925) 227-9300

SCALE
AS SHOWN
AUGUST 5, 1998
DRAWN
R.F.
CHECKED
E.L.S.
PROJ. MGR.
E.L.S.

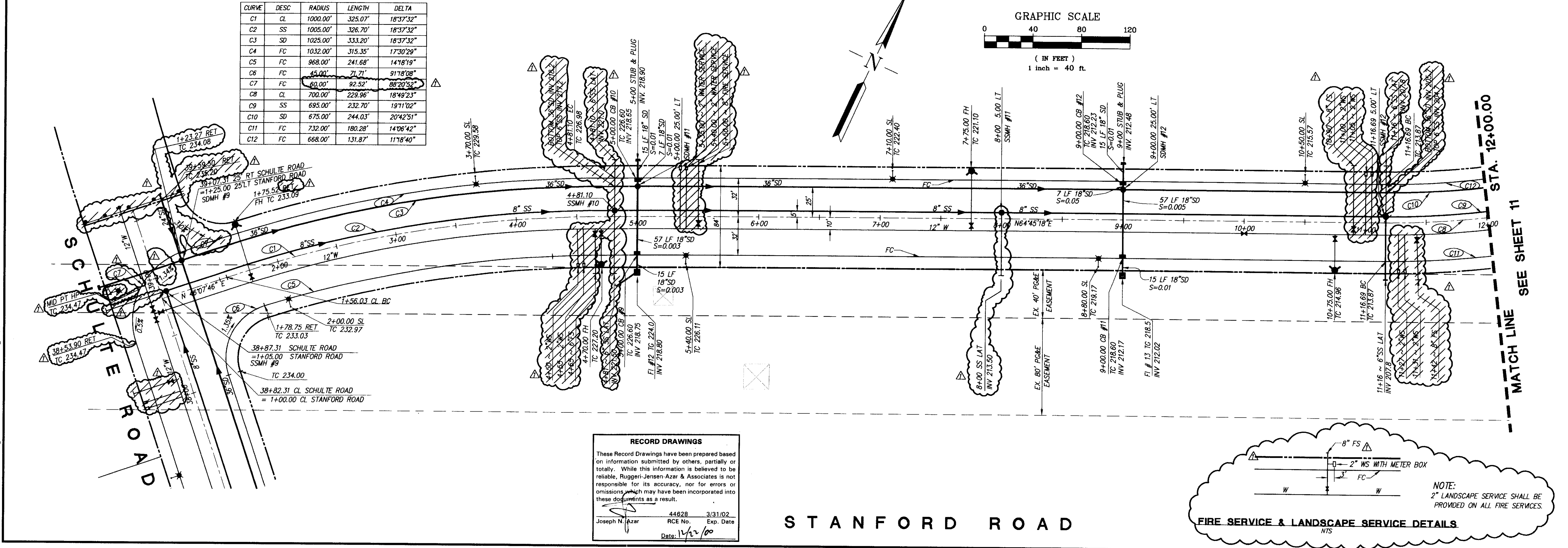
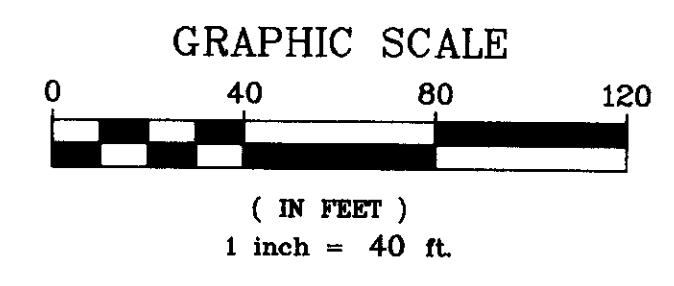
DATE
10-14-98
REVISE
INTERSECTION, ADD WS
& SS LAT
ADD SIL
SHEET NO.
11

\\s01007\CONSTR\100710P.dwg 10-30-98 7:59:12 am PLS CAD107



PROFILE SCALES:
1"=40' HORIZONTAL
1"=4' VERTICAL

CURVE	DESC	RADIUS	LENGTH	DELTA
C1	CL	1000.00'	325.07'	18°37'32"
C2	SS	1005.00'	326.70'	18°37'32"
C3	SD	1025.00'	333.20'	18°37'32"
C4	FC	1032.00'	315.35'	17°30'29"
C5	FC	968.00'	241.68'	14°18'19"
C6	FC	45.00'	71.71'	91°18'08"
C7	FC	60.00'	92.52'	88°20'52"
C8	CL	700.00'	229.96'	18°49'23"
C9	SS	695.00'	232.70'	19°11'02"
C10	SD	675.00'	244.03'	20°42'51"
C11	FC	732.00'	180.28'	14°06'42"
C12	FC	668.00'	131.87'	11°18'40"



RECORD DRAWINGS
These Record Drawings have been prepared based on information submitted by others, partially or totally. While this information is believed to be reliable, Ruggeri-Jensen Azar & Associates is not responsible for its accuracy, nor for errors or omissions which may have been incorporated into these documents as a result.

Joseph N. Azar
RCE No. 44828
Date: 3/31/02
Exp. Date: 3/31/07

FIRE SERVICE & LANDSCAPE SERVICE DETAILS

NOTE:
2" LANDSCAPE SERVICE SHALL BE PROVIDED ON ALL FIRE SERVICES.

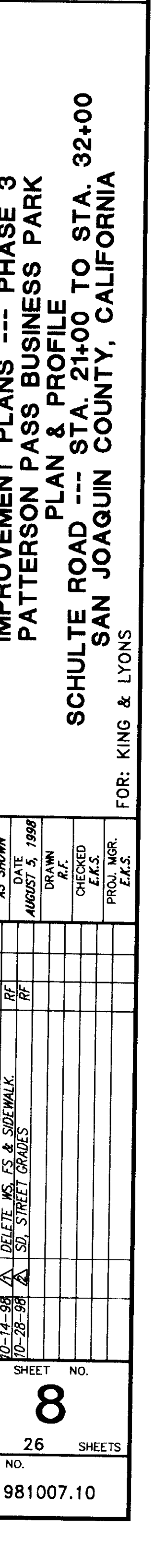
Ruggeri-Jensen Azar & Associates
8601 OWENS DRIVE, SUITE 155 • PLEASANTON, CA 94588
PHONE: (925) 227-9100 • FAX: (925) 227-9300

**IMPROVEMENT PLANS --- PHASE 3
PATTERSON PASS BUSINESS PARK
PLAN & PROFILE
STANFORD ROAD STA. 1+00 TO STA. 12+00
SAN JOAQUIN COUNTY, CALIFORNIA**

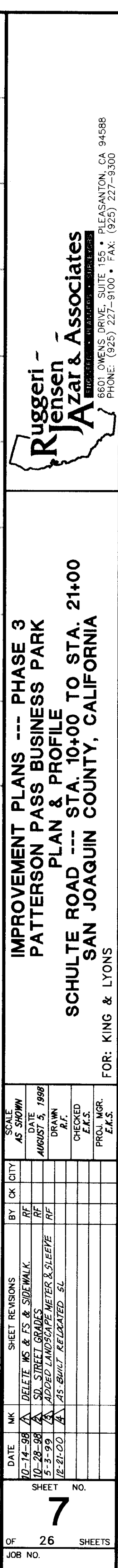
FOR: KING & LYONS

DATE	BY	CHK	QTY	REVISIONS
10-14-98	RF			DELETE WS, FS & SIDEWALK REVISE
10-28-98	RF			SS, LAT & INTERSECTION
				SD, STREET GRADES

SHEET NO. **10**
OF 26 SHEETS
JOB NO. 981007.10

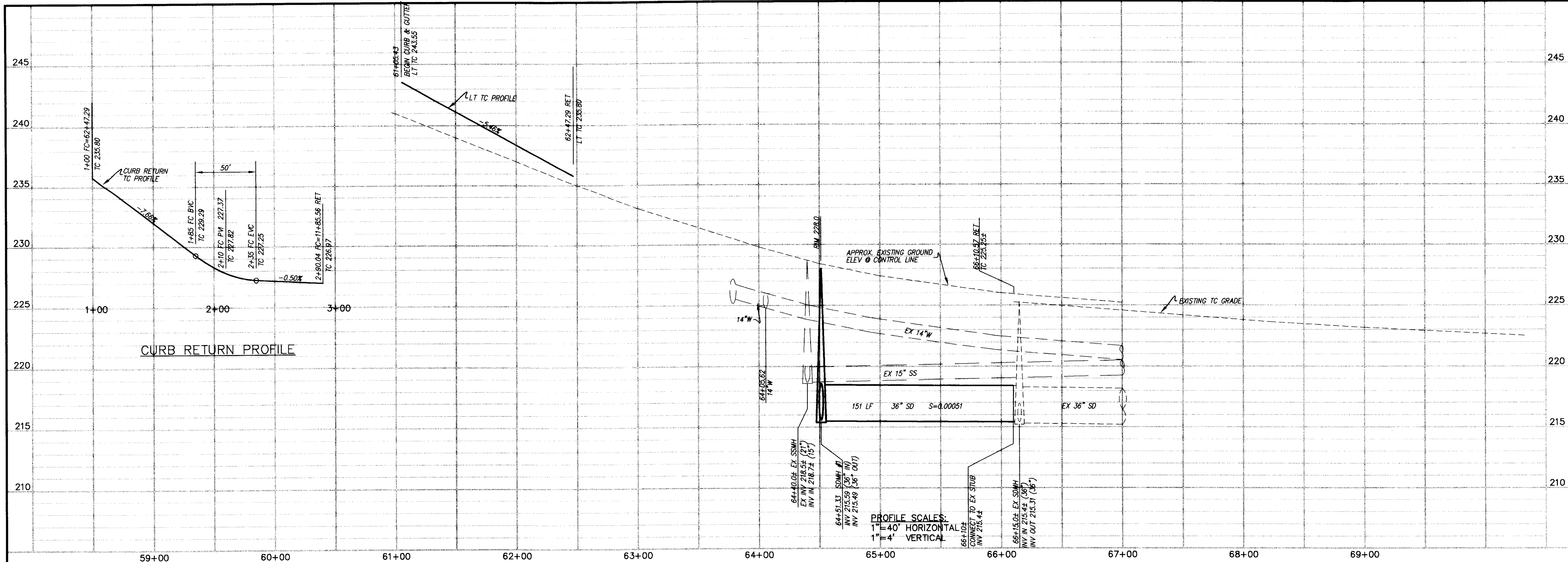


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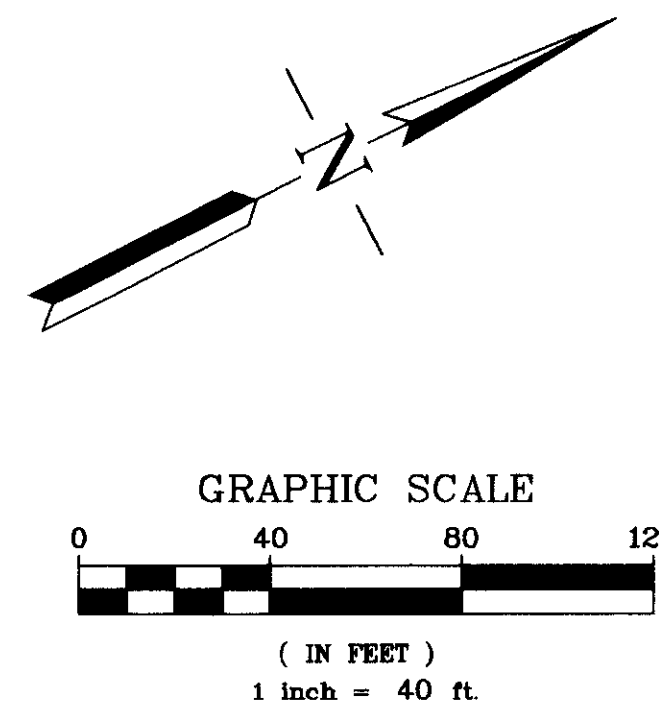
CURVE	DESC	RADIUS	LENGTH	DELTA
C1	CONTROL LINE	1000.00'	957.26'	54°50'49"
C2	FC	1084.00'	133.06'	0°01'58"
C3	FC	110.00'	190.04'	90°59'12"
C4	FC	110.00'	142.73'	74°20'44"
C5	MED FC	1006.00'	56.16'	0°31'55"
C6	MED FC	996.00'	211.26'	12°09'11"
C8	MED FC	1129.00'	441.03'	22°22'54"
C9	LT CONTROL LINE	1128.00'	457.34'	23°13'48"
C10	LT CONTROL LINE	980.00'	247.24'	14°27'17"
C11	CONTROL LINE	1000.00'	483.77'	27°43'04"
C12	CONTROL LINE	1000.00'	473.49'	27°07'45"

MOUNTAIN HOUSE PARKWAY

SCHULTE ROAD

RECORD DRAWINGS
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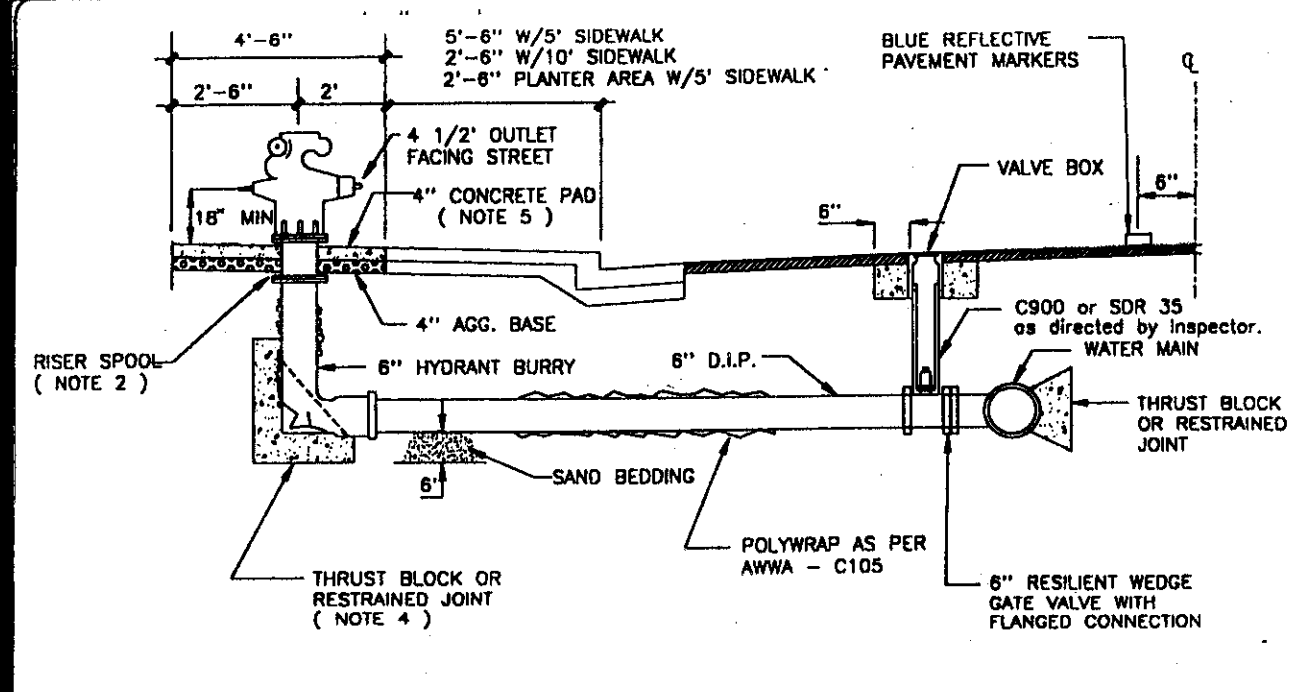
Joseph N. Azar
RCE No. 44628
Exp. Date 3/31/02
Date: 12/11/00



IMPROVEMENT PLANS --- PHASE 3
PATTERSON PASS BUSINESS PARK
PLAN & PROFILE
MOUNTAIN HOUSE PARKWAY
SAN JOAQUIN COUNTY, CALIFORNIA
FOR: KING & LYONS

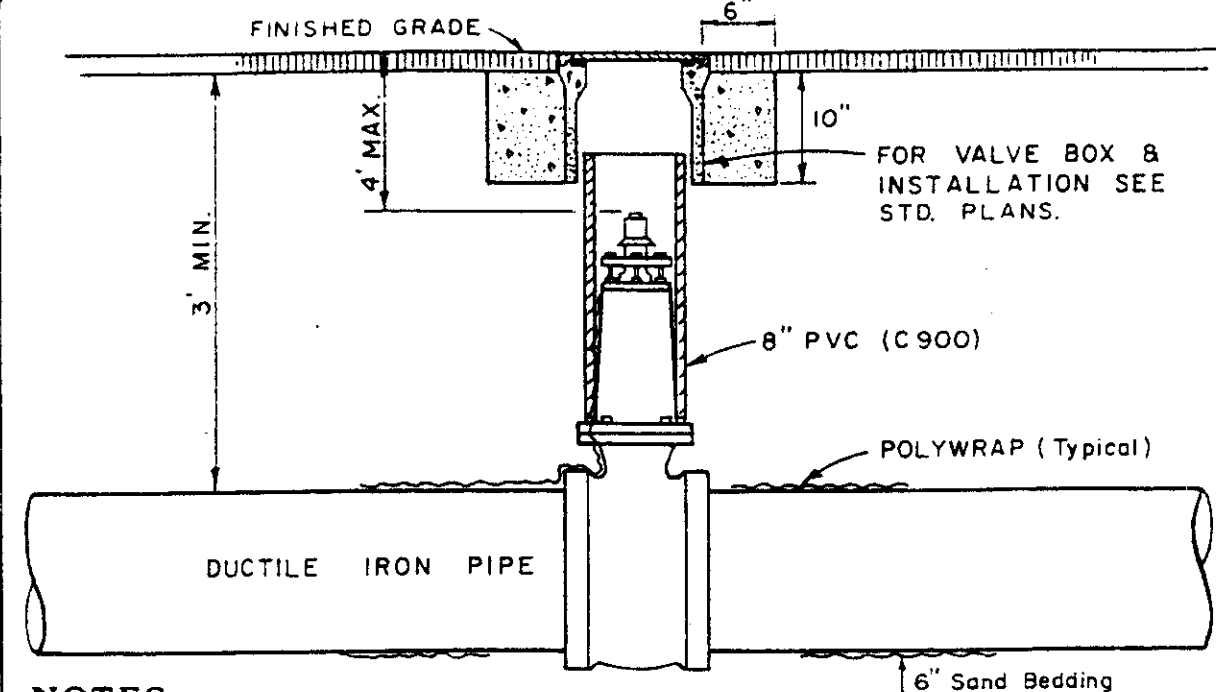
DATE	10-14-98	BY	OK	CITY	DATE	AS SHOWN	DATE	10-14-98	DATE	10-14-98	DATE	10-14-98
SHEET	REVISIONS	DATE	10-14-98	BY	OK	CITY	DATE	AS SHOWN	DATE	10-14-98	DATE	10-14-98
6												
SHEET NO. 6												
OF 26 SHEETS												
JOB NO. 981007												

Ruggeri-Jensen-Azar & Associates
6601 OWENS DRIVE, SUITE 155 • PLEASANTON, CA 94588
PHONE: (925) 227-9100 • FAX: (925) 227-9300

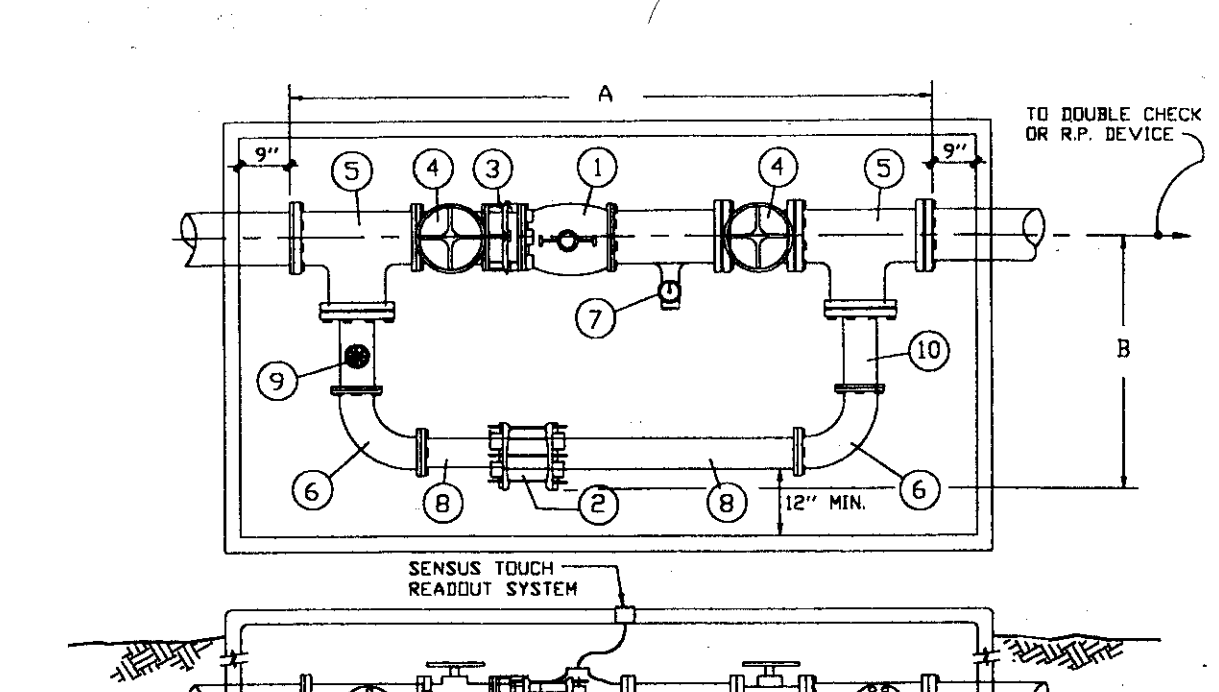


- NOTES:**
- Hydrant shall have 1, 4 1/2" upper outlet and 1, 2 1/2" hose outlet, Long Beach 425 Mueller A481, class B50 or approved equal. Hydrants and all exposed parts shall be painted one coat primer and two finishing coats of Benjamin Moore Safety Yellow or Fuller O'Brien Highway Yellow.
 - Riser Spools when used shall be the break off type, the bolts attaching hydrant to bury and spool shall be of the break-off type, hex head, heavy American Standard. Nuts shall be down.
 - Valve shall be resilient wedge gate valve. Totally encapsulated, factory epoxy lined & coated.
 - Thrust block shall have minimum bearing surface of 10 sq. feet, at end of curb return, 3 ft. from driveways, and near street lights, or as shown on plans approved by City Engineer.
 - Hydrant bodies to lined with factory two part epoxy.

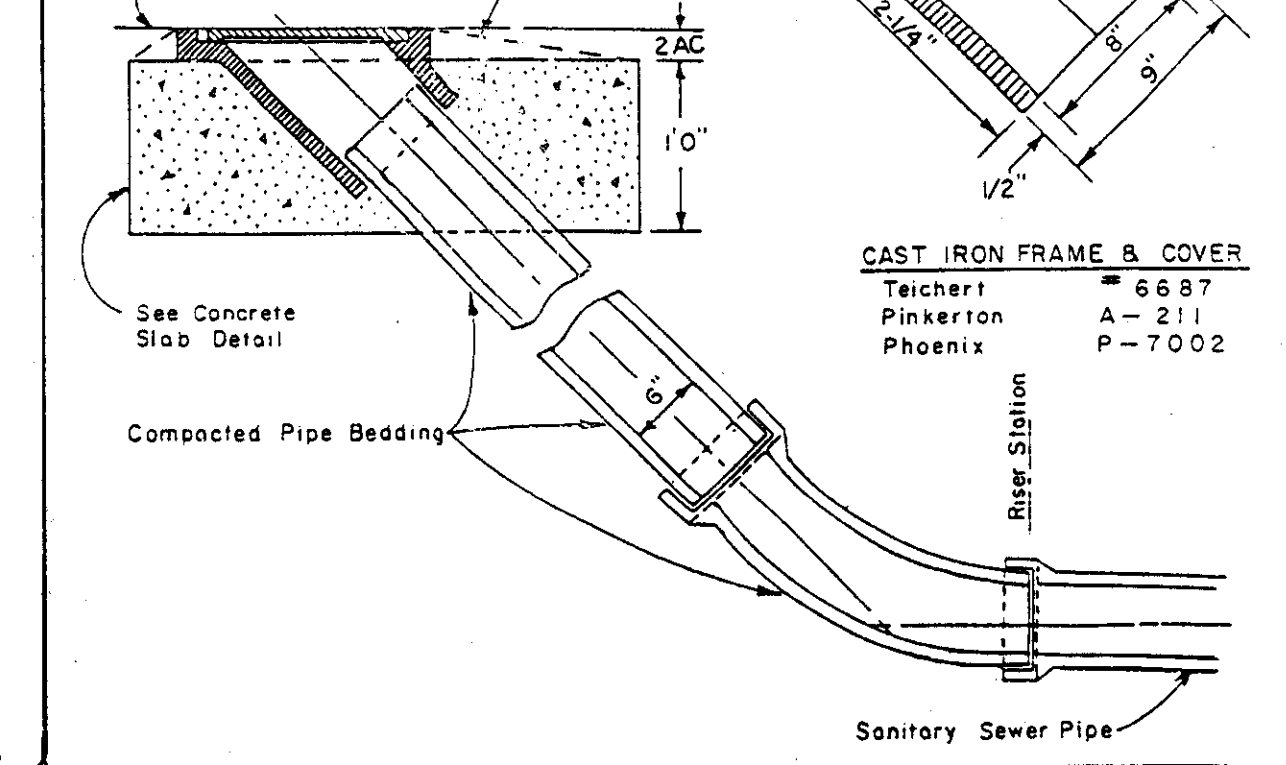
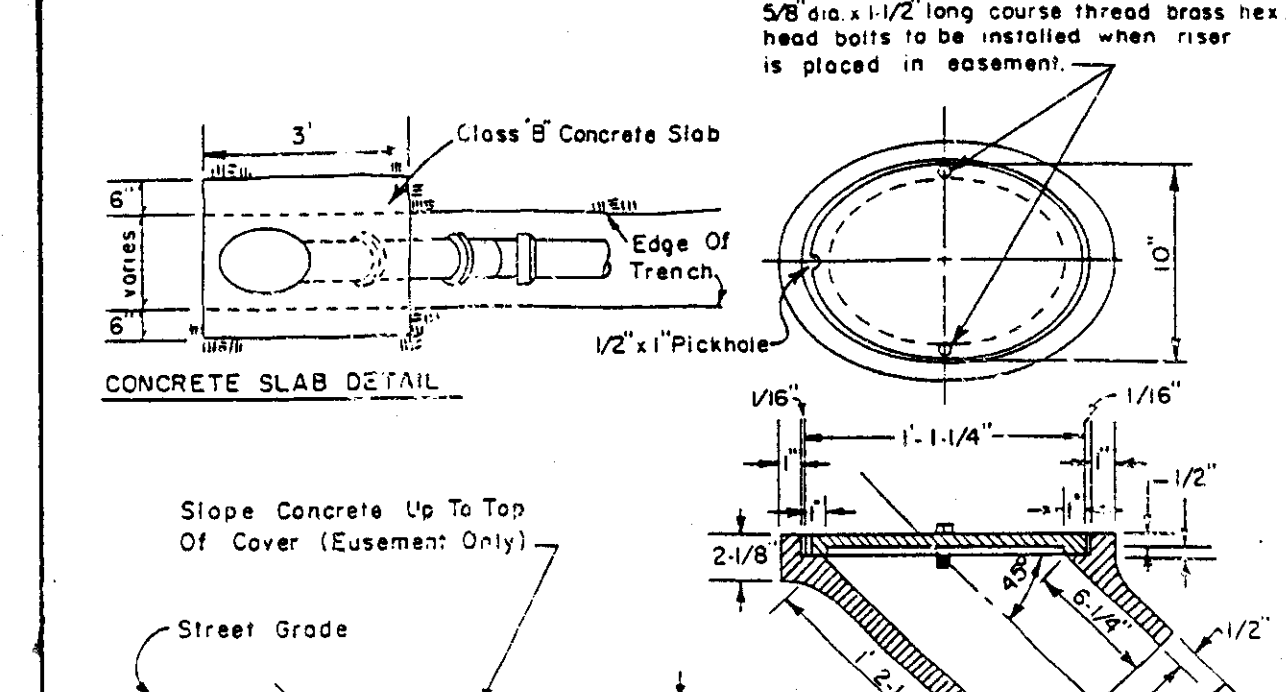
APPROVED BY
FIRE CHIEF
DATE: 6.15.83



- NOTES:**
- Valves shall be one of the following:
 - Butterfly valves: 12" and larger rubber seated, tight closing type meeting or exceeding A.W.W.A. C584. Valves body shall be cast iron, A.S.T.M. A126 Class B with 18-8 type 304 stainless steel body seat. Valve vane shall be cast iron A.S.T.M. A48 Class 48 with rubber seat secured with an integral 18-8 stainless steel nylon locked screws. Rubber seat shall be a full circle 360° seated not penetrated by the valve shaft. Packing shall be "triple seal" rubber designed for permanent underground duty. Valve operator shall be of the traveling-nut type, sealed, gasketed and lubricated for service. It shall withstand an input torque of 450 ft. lbs. Only valves on approved materials list shall be used.
 - Gate Valves: 18" and smaller as shown on list of approved materials.
 - Operating nuts shall be raised to within 4' of finished street grade with required extensions being provided by valve manufacturer.
 - Polywrap all pipes and valves.
 - Valves shall be tested by manufacturer as follows: 6" - 12" 175 psi 14" and larger - 150 psi. In addition, hydrostatic tests against fully closed valve valves shall be done as follows: 6" - 12" 350 psi, and larger 380 psi.
 - Valve Box: Brooks 3-RT or Christy G5 with GSC lid.



- NOTES:**
- PROJECT ENGINEER TO DETERMINE TYPE - COMPOUND TURBINE TOUCH READ METER, TOUCH READ PAD TO BE LOCATED ON VAULT LID.
 - ALL TURBINE METER SHALL HAVE A STRAINER IMMEDIATELY UPSTREAM WITH APPROPRIATE SIZE BOX.
 - INSTALL A LOCKABLE READING LID ABOVE METER REGISTER IN STEEL LIDS.
- | No. | NAME | SENSUS |
|-----|--------------|----------------------------|
| 1 | SENSUS METER | 6 90° ELBOW |
| 2 | COUPLING | 7 2" TEST PORT |
| 3 | ADAPTER | 8 BYPASS PIPE BRASS-COPPER |
| 4 | GATE VALVE | 9 BYPASS GATE VALVE |
| 5 | REDUCING TEE | 10 SPOOL |
- | DIMENSIONS | | 2" | 3" | 4" | 6" |
|-----------------|--------------------------|----|----|----|----|
| A | OVER ALL LENGTH | 63 | 73 | 86 | |
| B | WIDTH PIPE & TO BYPASS | 19 | 21 | 26 | |
| C | PIPE & TO MAXIMUM HEIGHT | 16 | 17 | 21 | |
| MAIN LINE WIDTH | | | | | |
| WEIGHT | | | | | |
| BY PASS SIZE | | 2" | 3" | 3" | 4" |



CITY OF TRACY

REVIEWED BY: *Khan*
CITY ENGINEER RCE 37186
Res No. 97-231 DATE: July 15, 1997
Rev: 1
Rev: 1

STANDARD PLAN No. 401
FIRE HYDRANT

CITY OF TRACY

REVIEWED BY: *Michael D. Chaskey*
CITY ENGINEER RCE 22501
Res No. 87-364 DATE: Dec. 22, 1987
Rev: 1
Rev: 1

STANDARD PLAN No. 402
WATER VALVE INSTALLATION

CITY OF TRACY

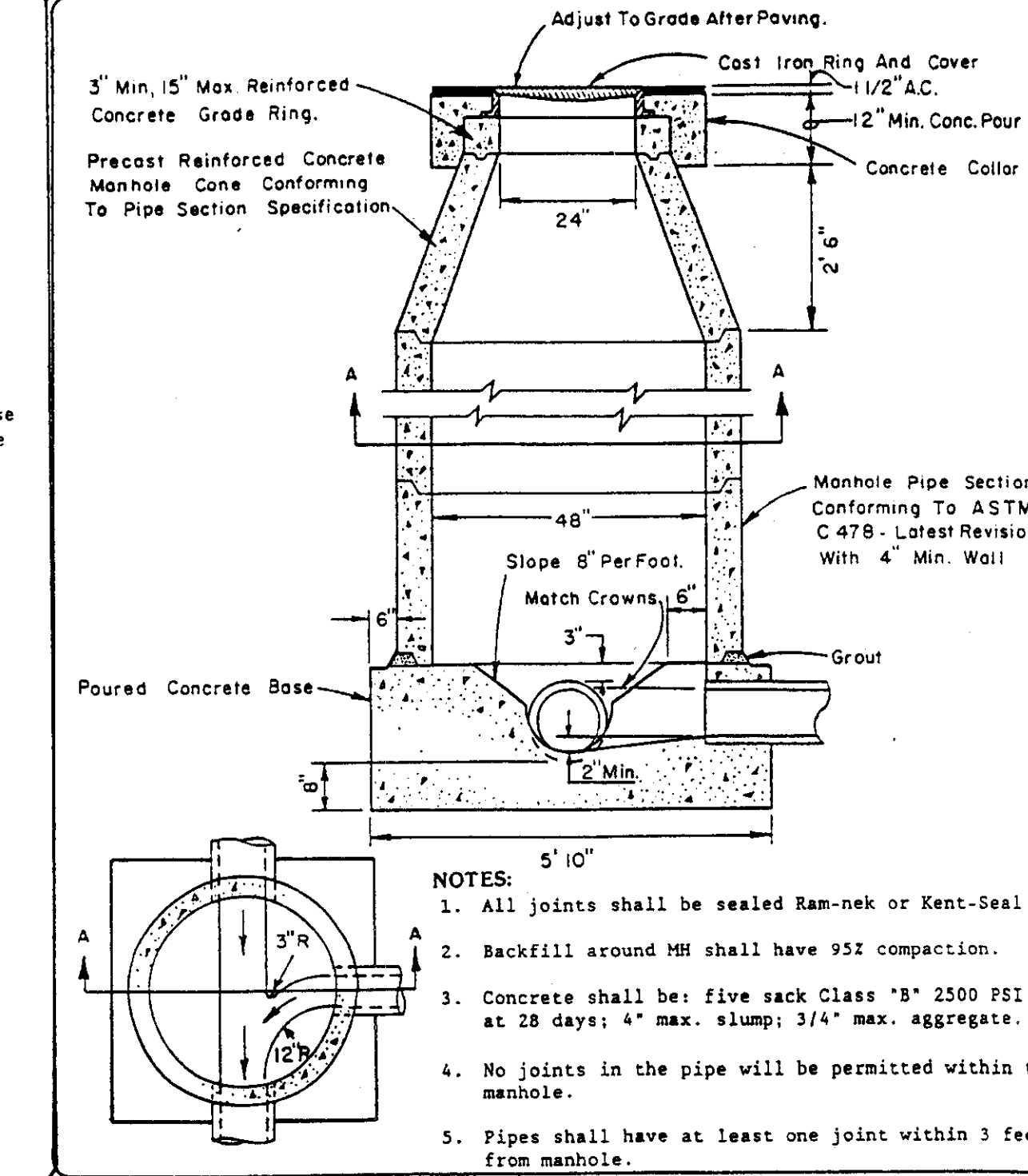
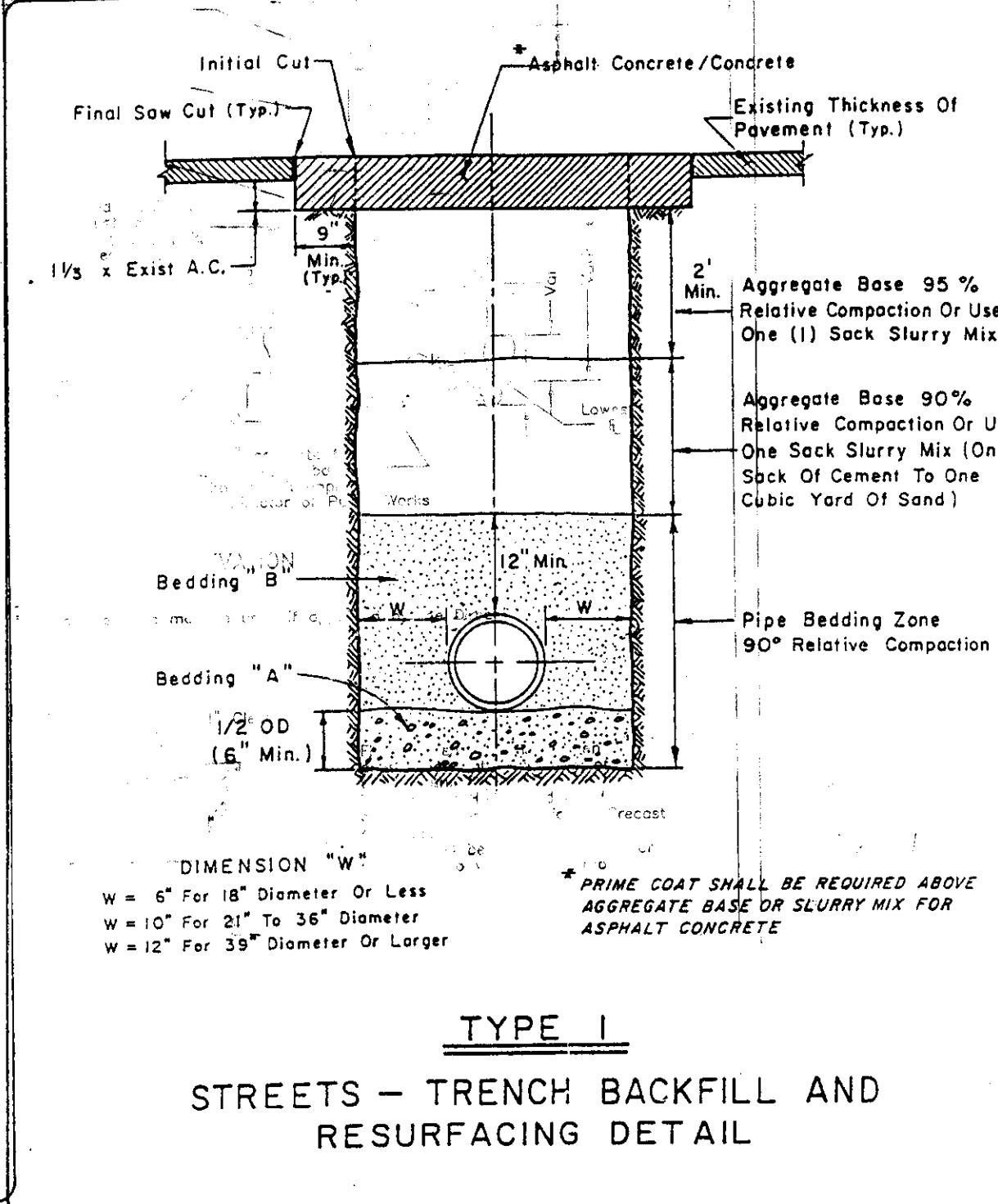
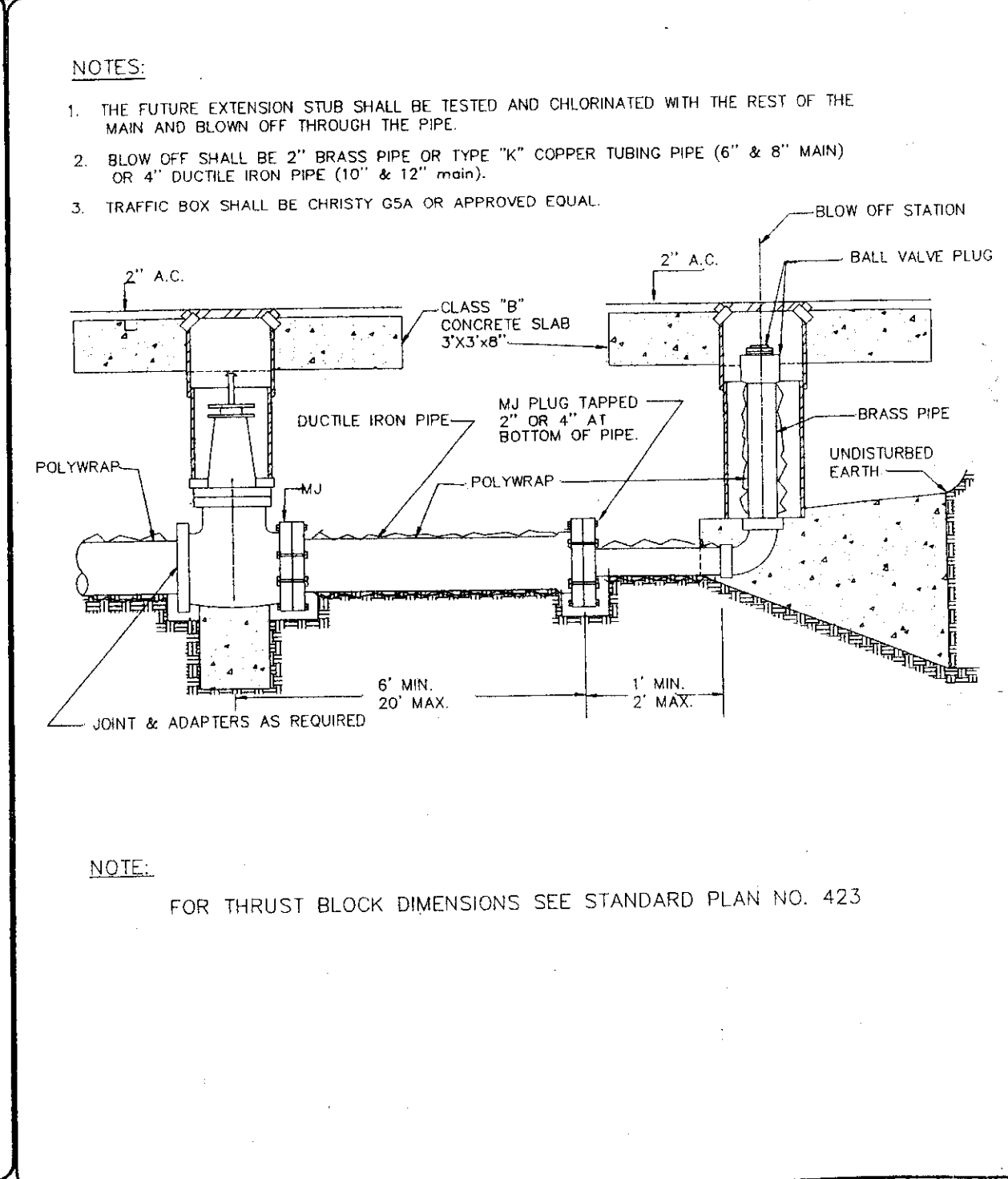
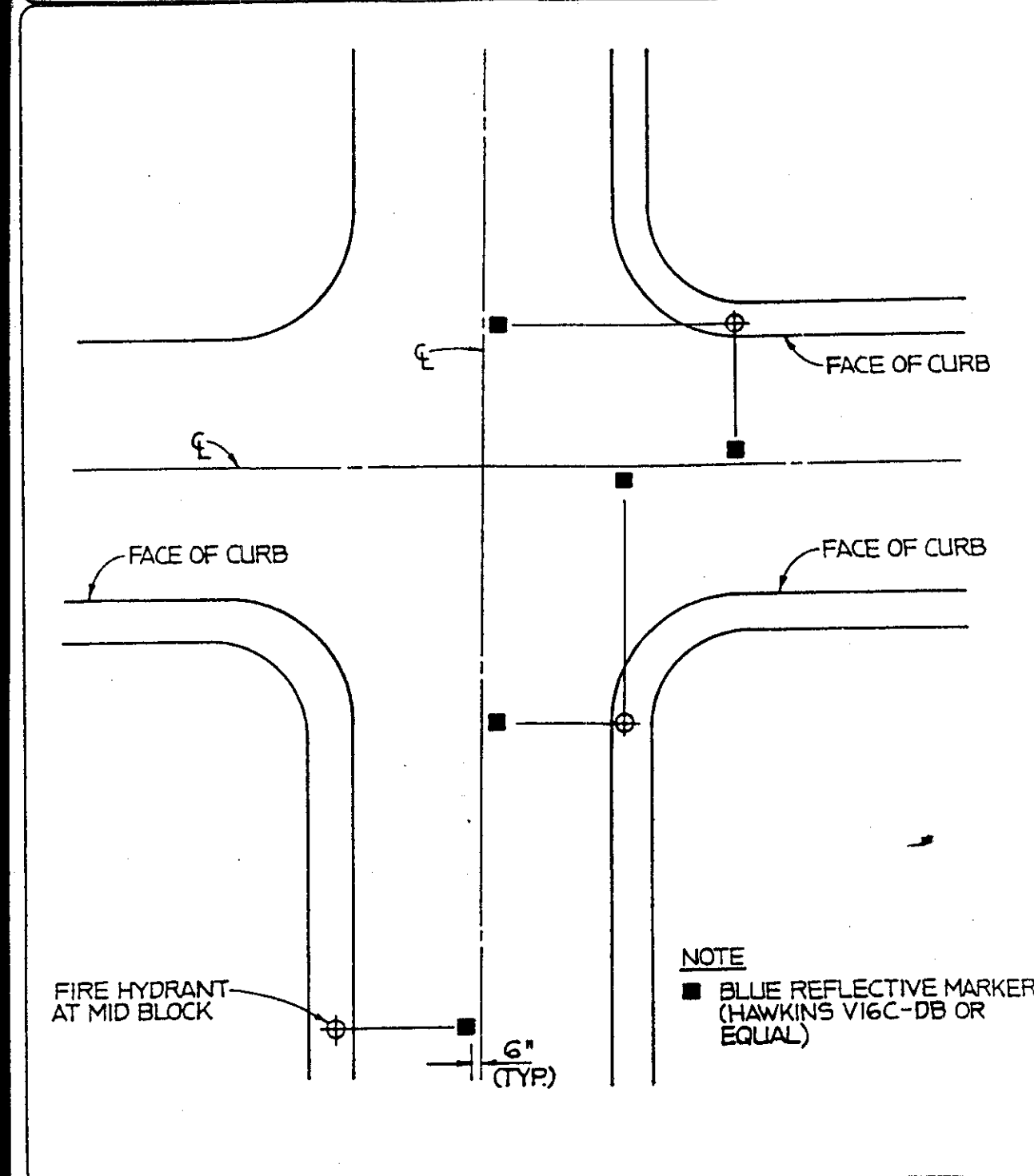
REVIEWED BY: *Khan*
CITY ENGINEER RCE 37186
Res No. 97-231 DATE: July 15, 1997
Rev: 1
Rev: 1

STANDARD PLAN No. 406
3", 4" & 6" WATER METER

CITY OF TRACY

REVIEWED BY: *Michael D. Chaskey*
CITY ENGINEER RCE 22501
Res No. 87-364 DATE: Dec. 22, 1987
Rev: 1
Rev: 1

STANDARD PLAN No. 202
FLUSHING INLET



CITY OF TRACY

REVIEWED BY: *Michael D. Chaskey*
CITY ENGINEER RCE 22501
Res No. 87-364 DATE: Dec. 22, 1987
Rev: 1
Rev: 1

STANDARD PLAN No. 407
BLUE REFLECTIVE MARKER PLACEMENT

CITY OF TRACY

REVIEWED BY: *Khan*
CITY ENGINEER RCE 37186
Res No. 97-231 DATE: July 15, 1997
Rev: 1
Rev: 1

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

CITY OF TRACY

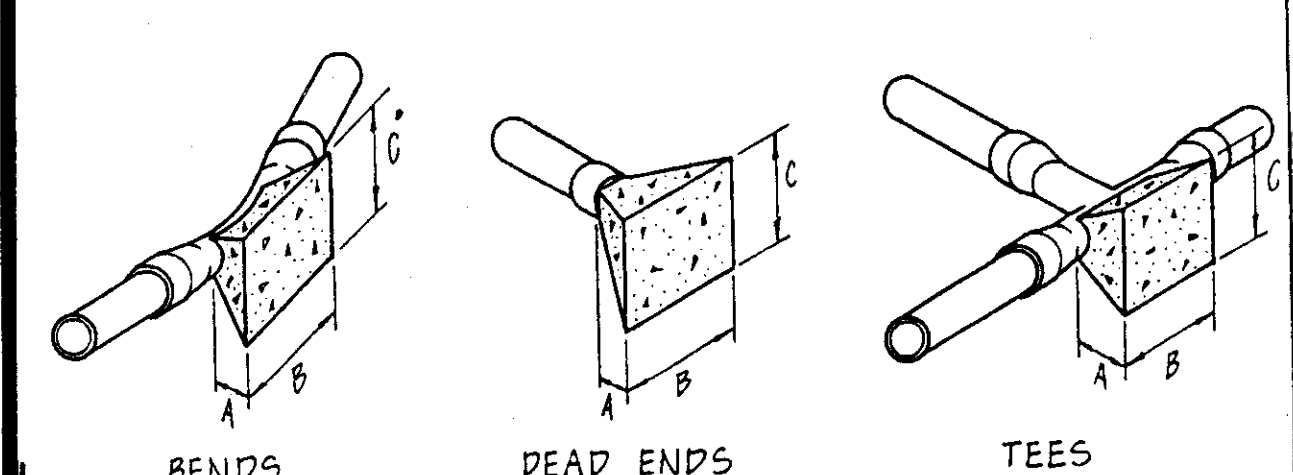
REVIEWED BY: *Michael D. Chaskey*
CITY ENGINEER RCE 22501
Res No. 89-295 DATE: July 18, 1989
Rev: 1
Rev: 1

STANDARD PLAN No. 501 SHEET 1 OF 4
TRENCHING & RESURFACING

CITY OF TRACY

REVIEWED BY: *Michael D. Chaskey*
CITY ENGINEER RCE 22501
Res No. 87-364 DATE: Dec. 22, 1987
Rev: 1
Rev: 1

STANDARD PLAN No. 301
MANHOLE



THRUST BLOCK AREA REQUIRED

Allowable soil bearing value - 2500 pounds per square foot.

Fittings	6" line			8" line			10" line			12" line		
	A	B	C	A	B	C	A	B	C	A	B	C
22 1/2° bend	1'	1'-6"	1'-6"	1'	2'	2'	1'	3'	2'	1'-6"	3'	3'
45° bend	1'	2'	2'	1'-6"	3'	2'-6"	1'-6"	3'-6"	3'	2'	4'	4'
90° bend	1'-6"	3'	3'	1'-6"	4'	3'	2'	5'	4'	2'	7'	4'
Dead end	1'	2'-6"	2'	1'-6"	3'	3'	2'	4'	3'-6"	2'	5'	4'
Tee	1'	2'-6"	2'	1'-6"	3'	3'	2'	4'	3'-6"	2'	5'	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 wedge-shaped and shall not overlap bell on fittings or interfere with bolts on flanges.

CITY OF TRACY

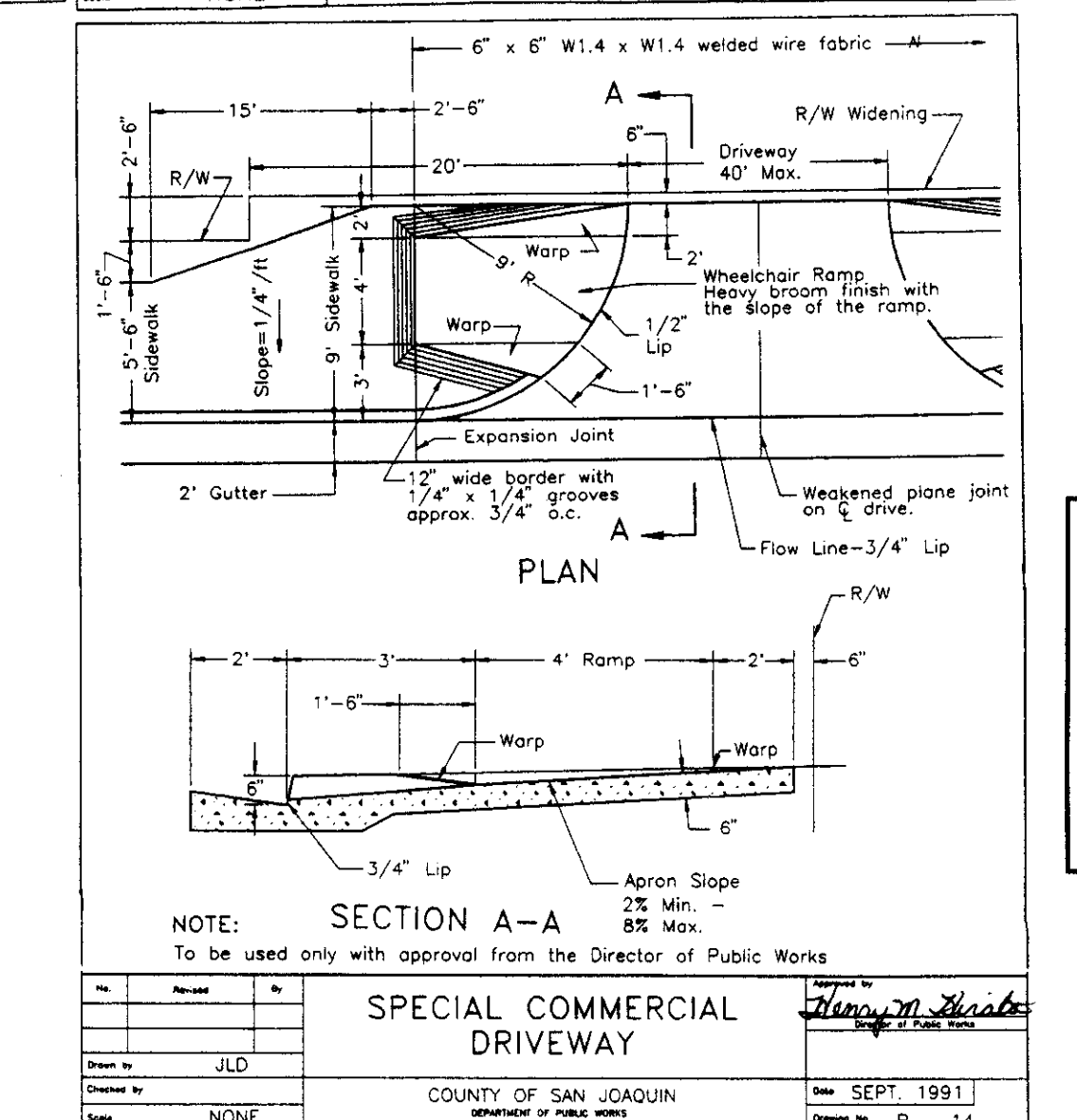
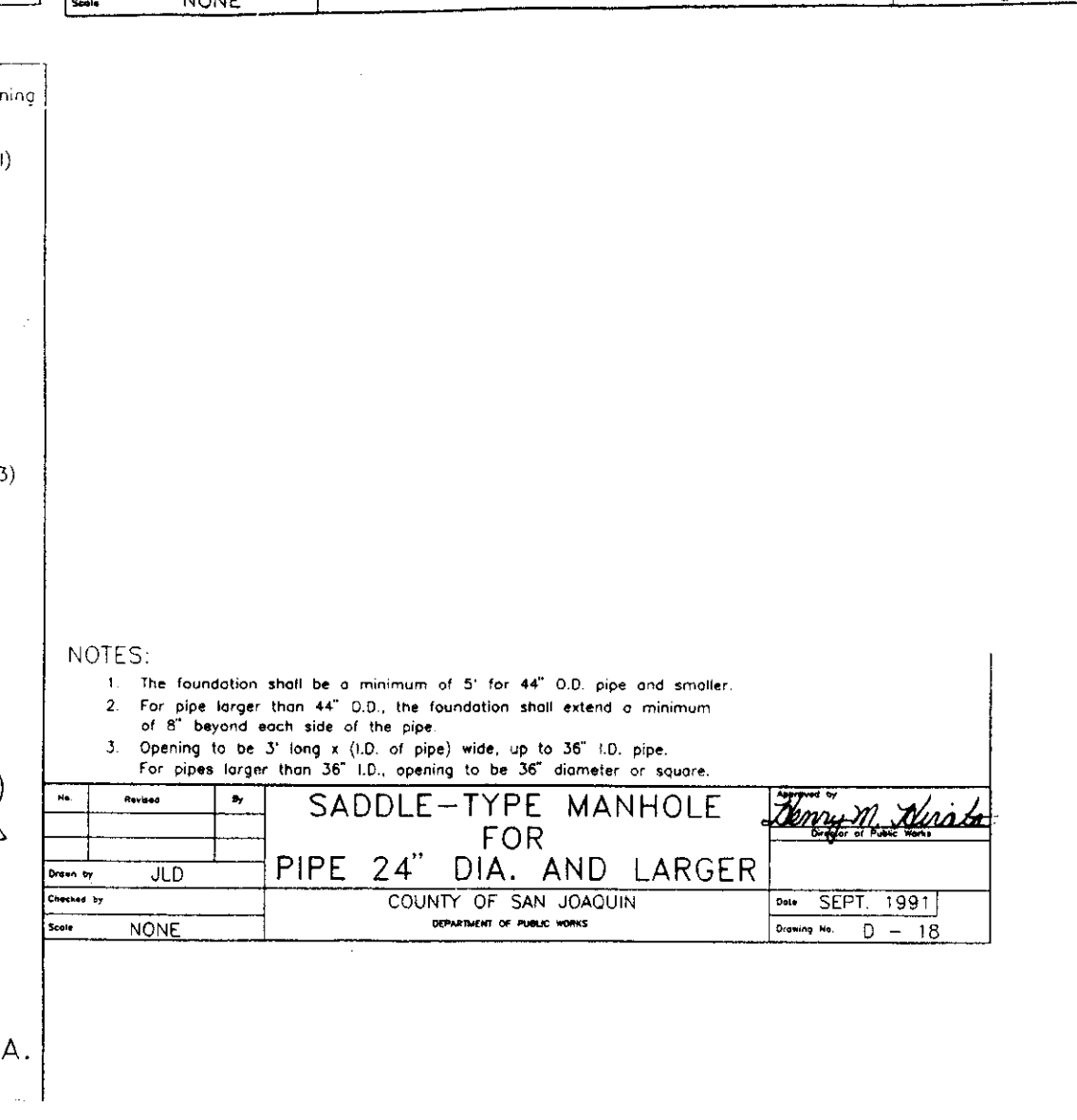
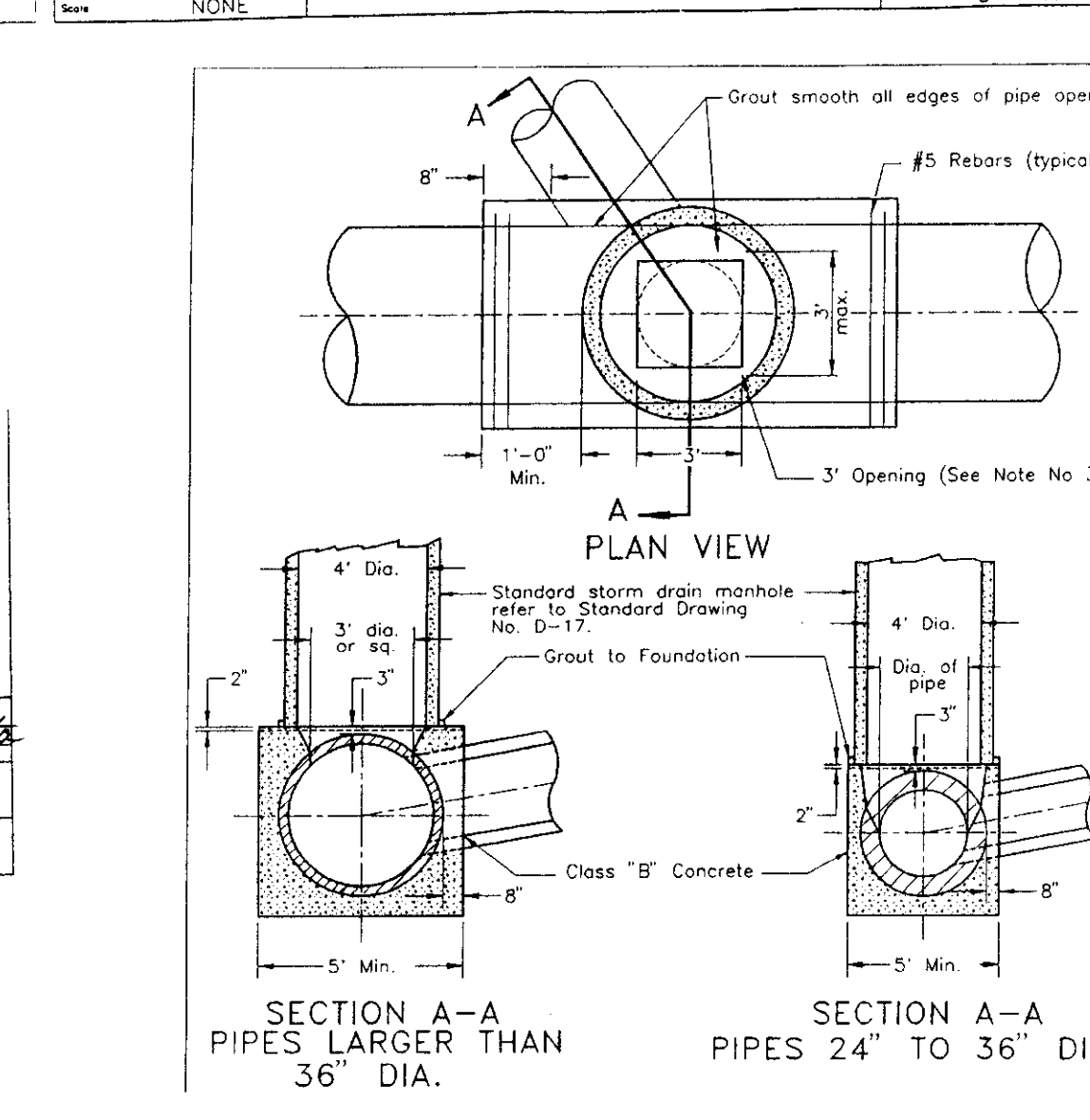
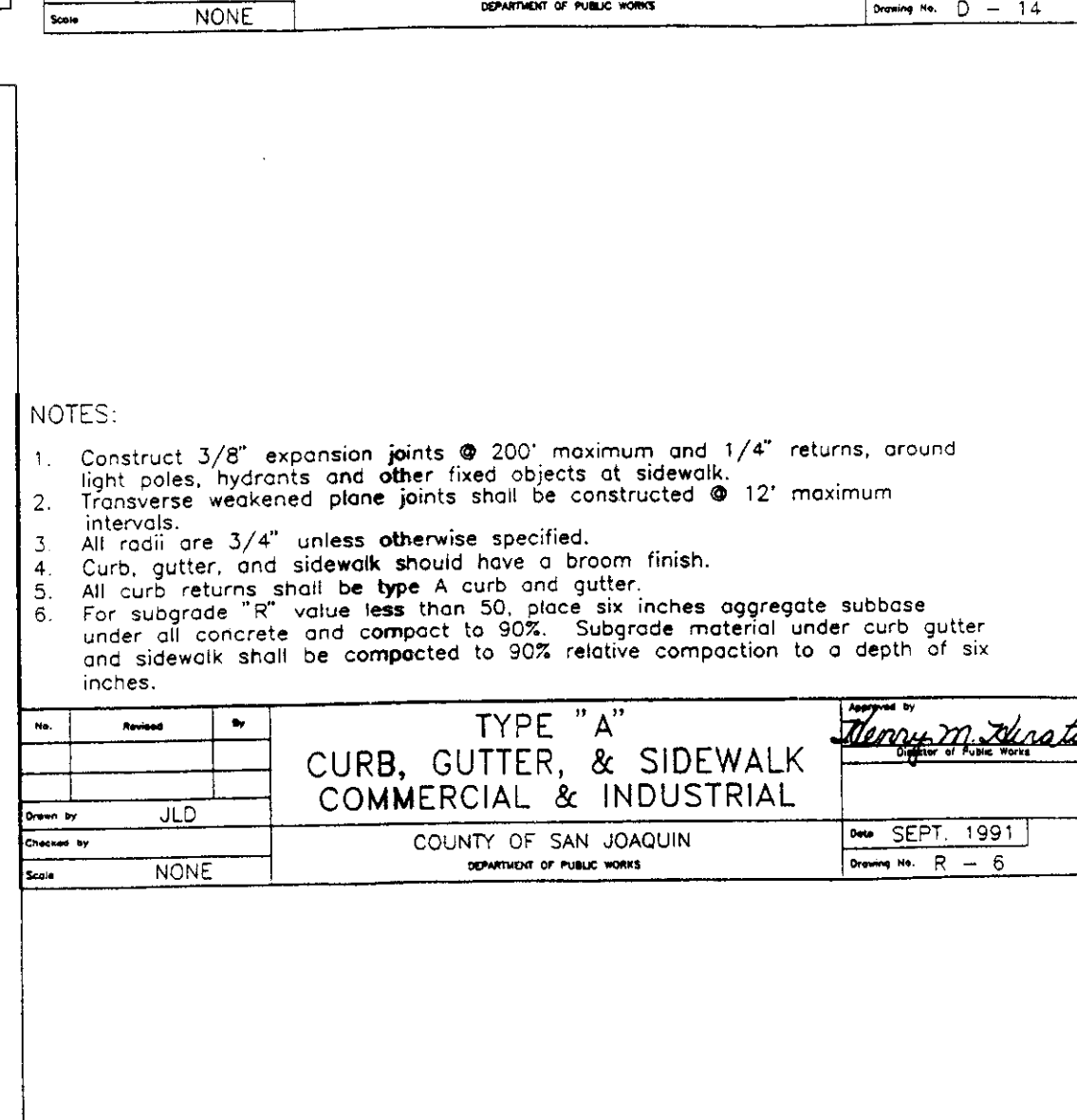
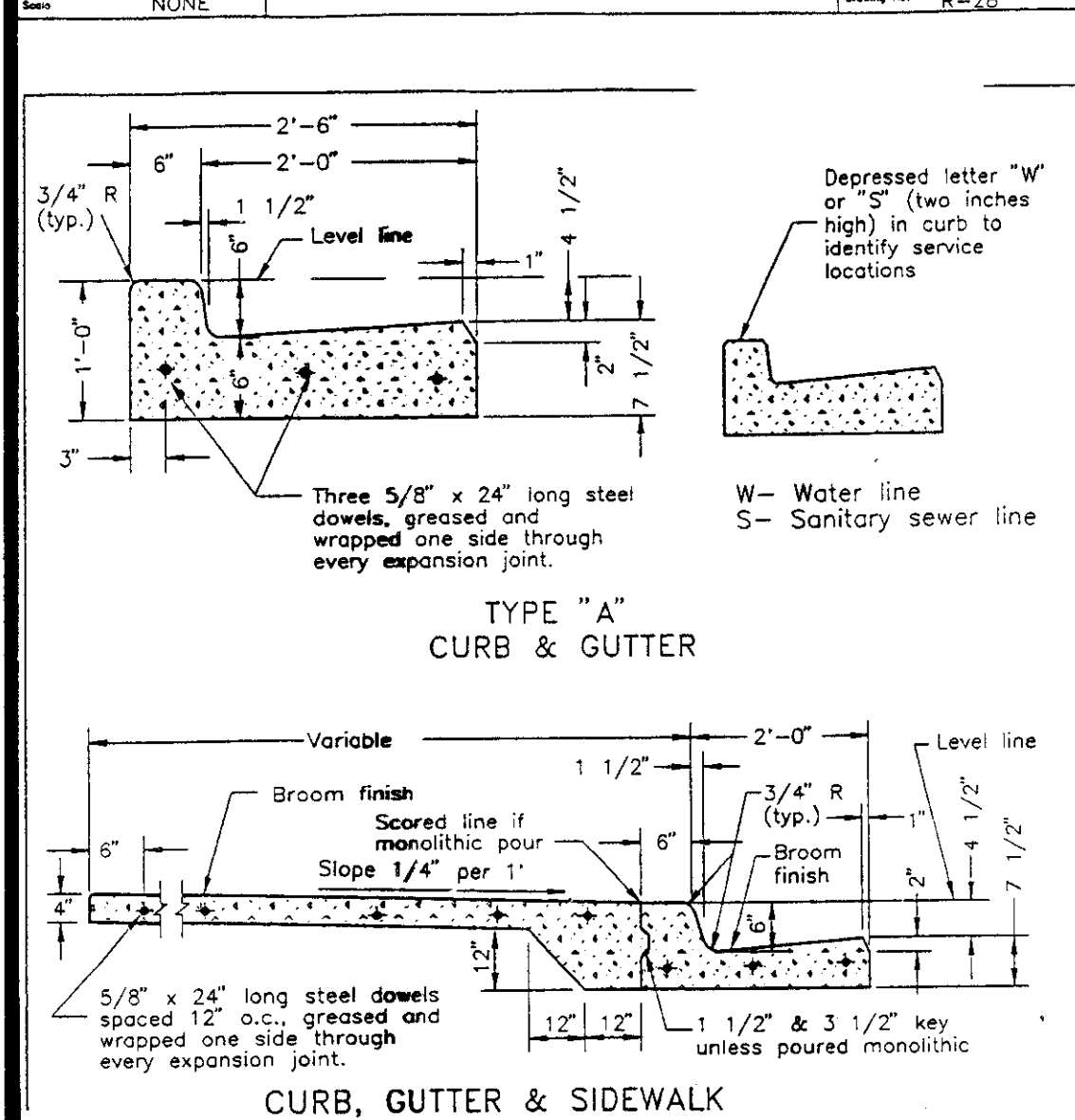
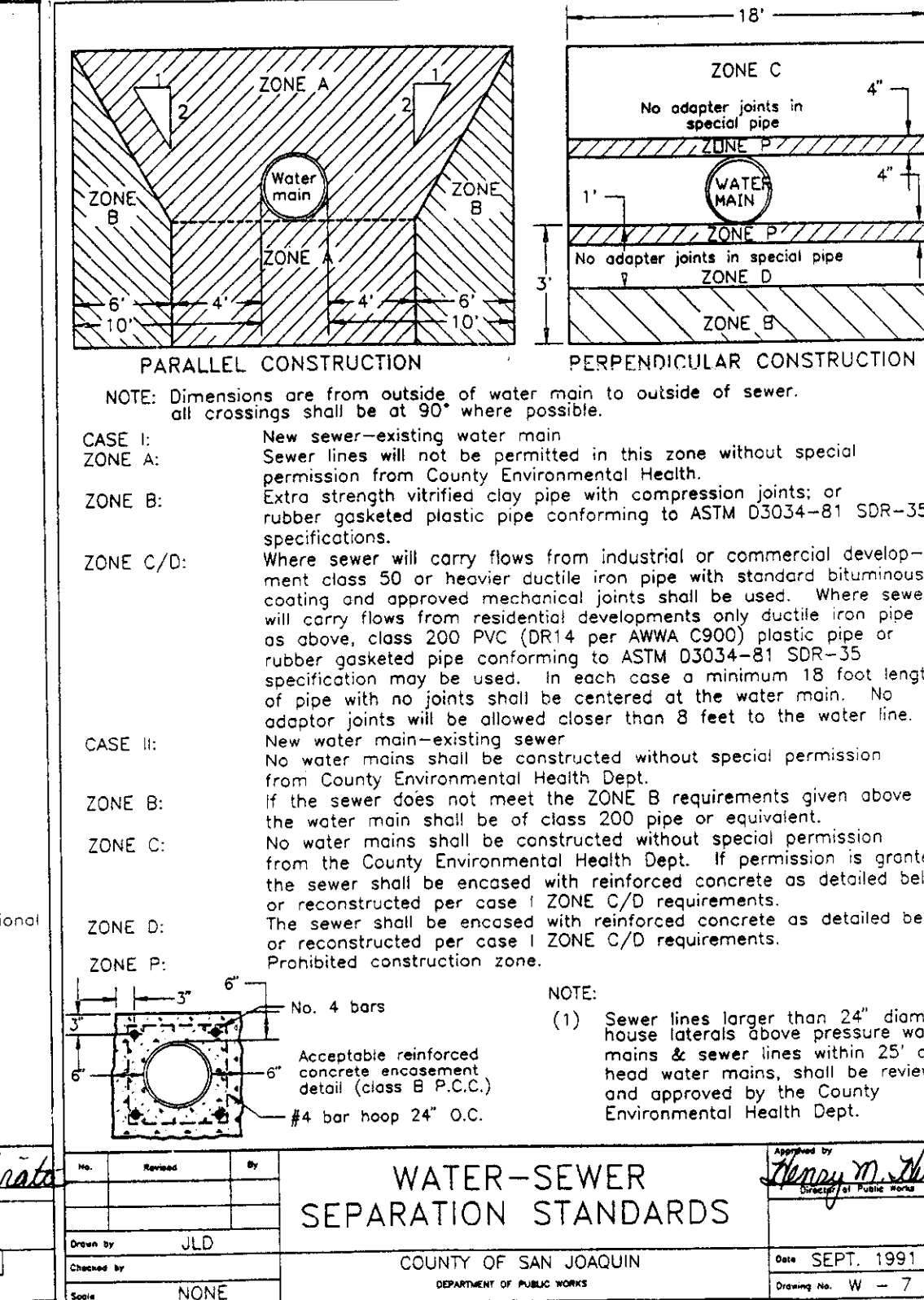
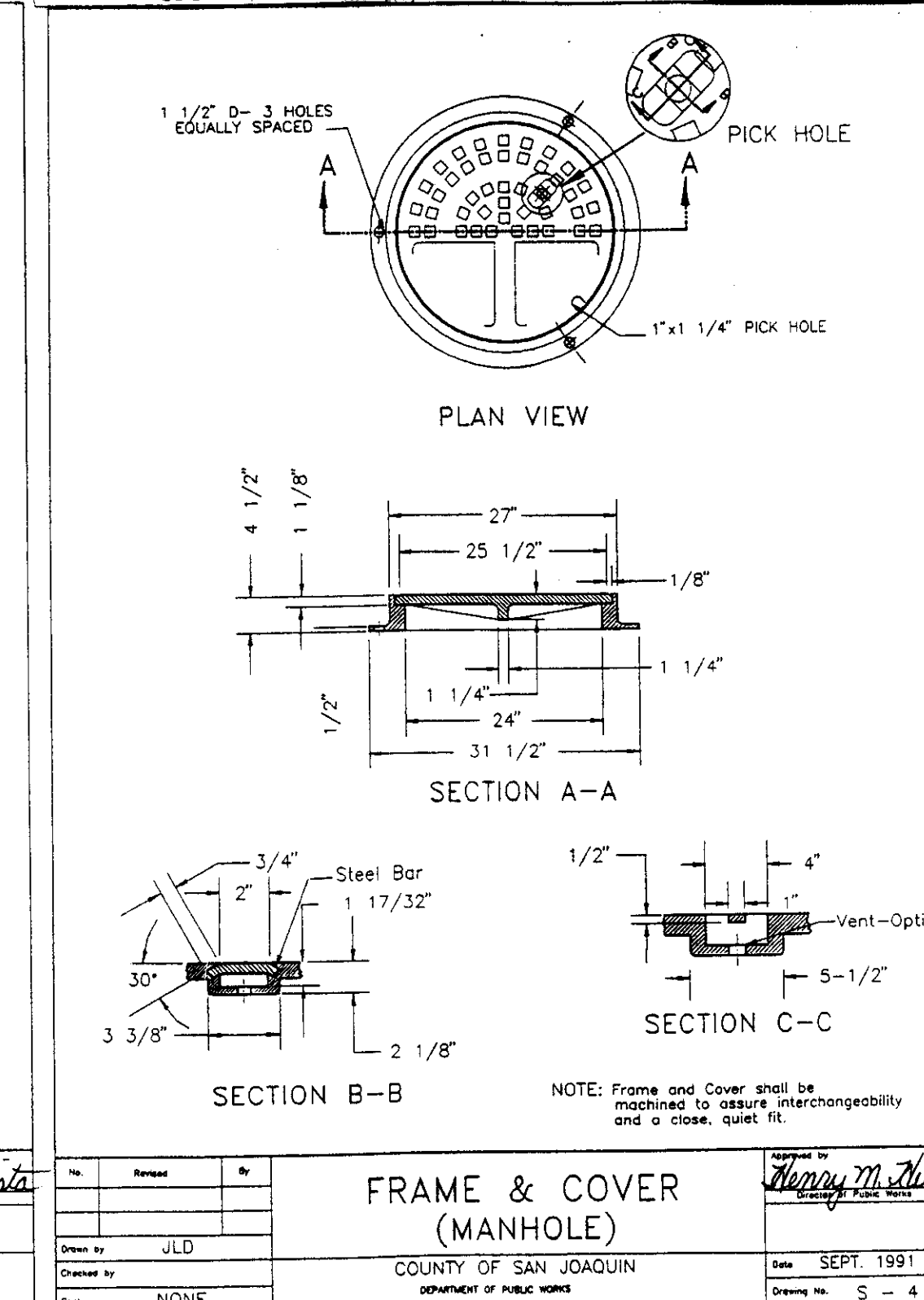
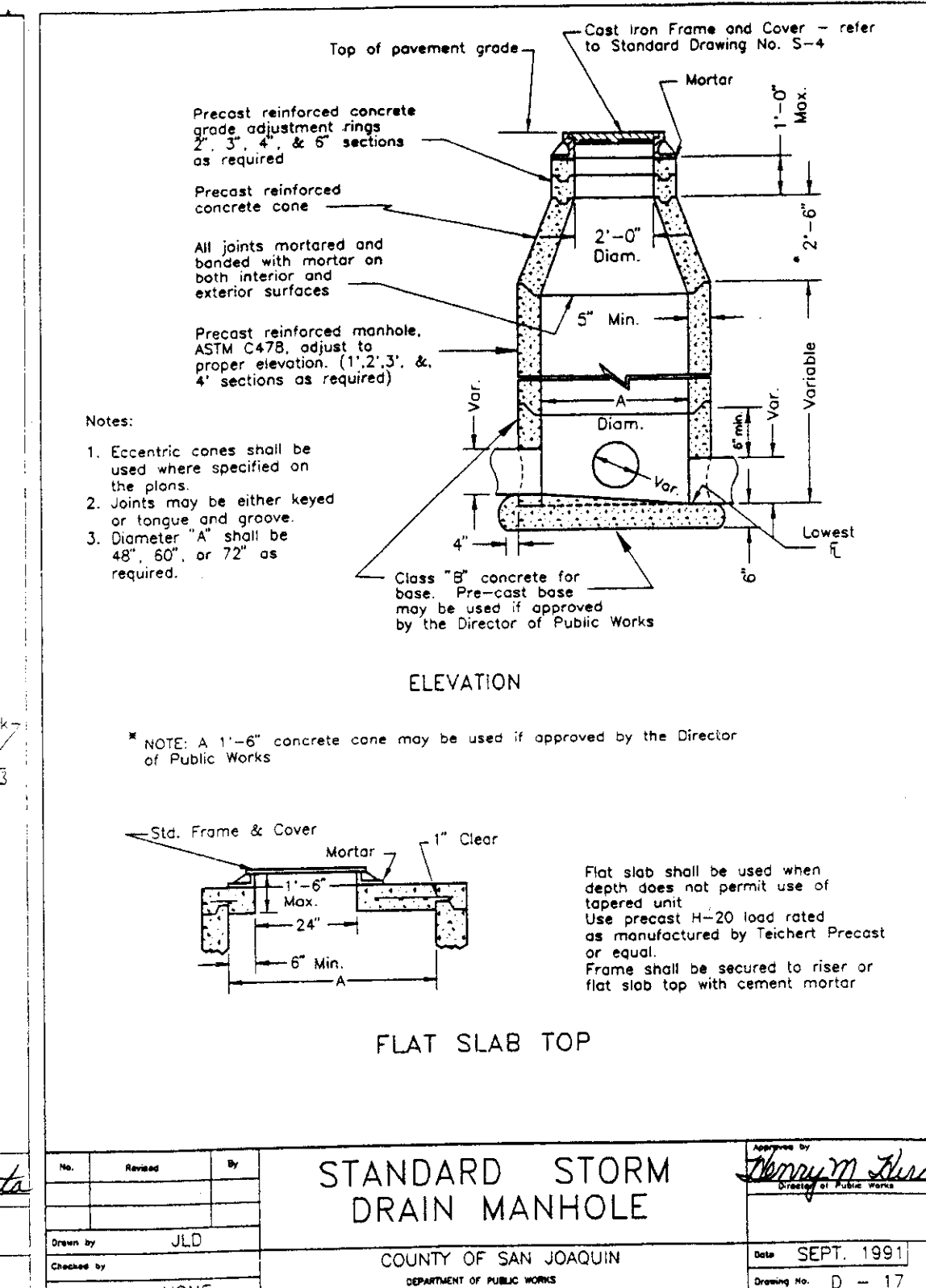
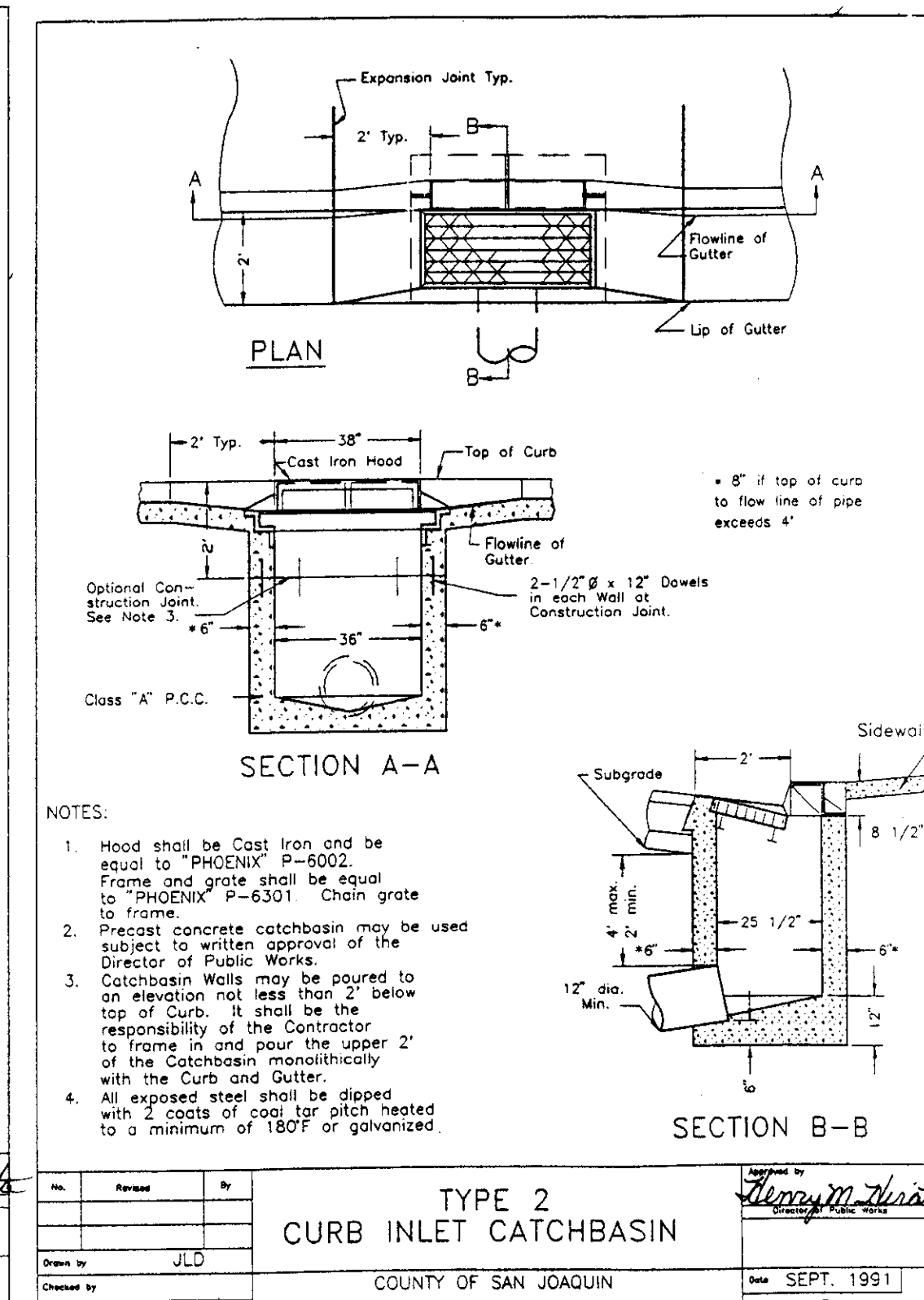
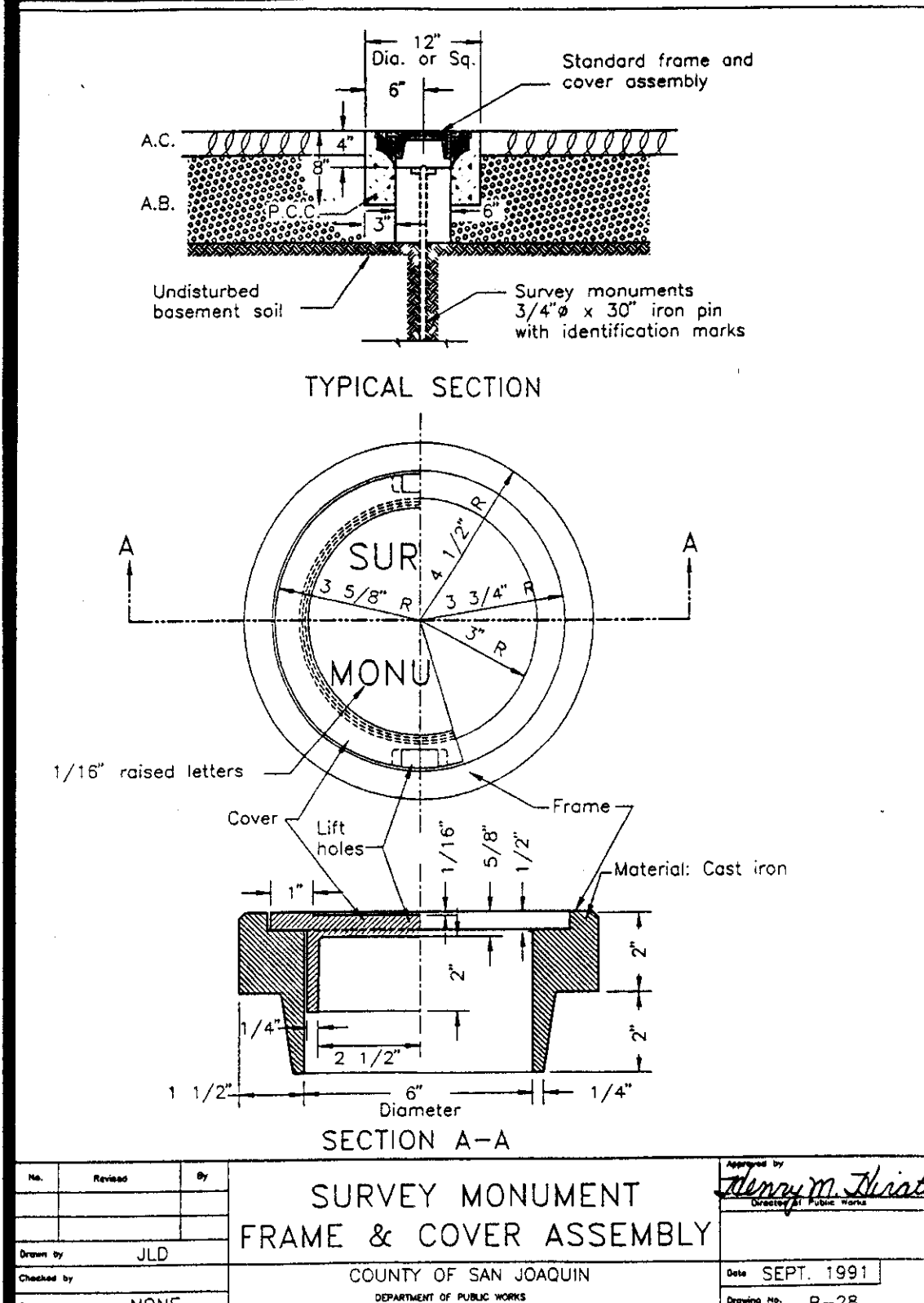
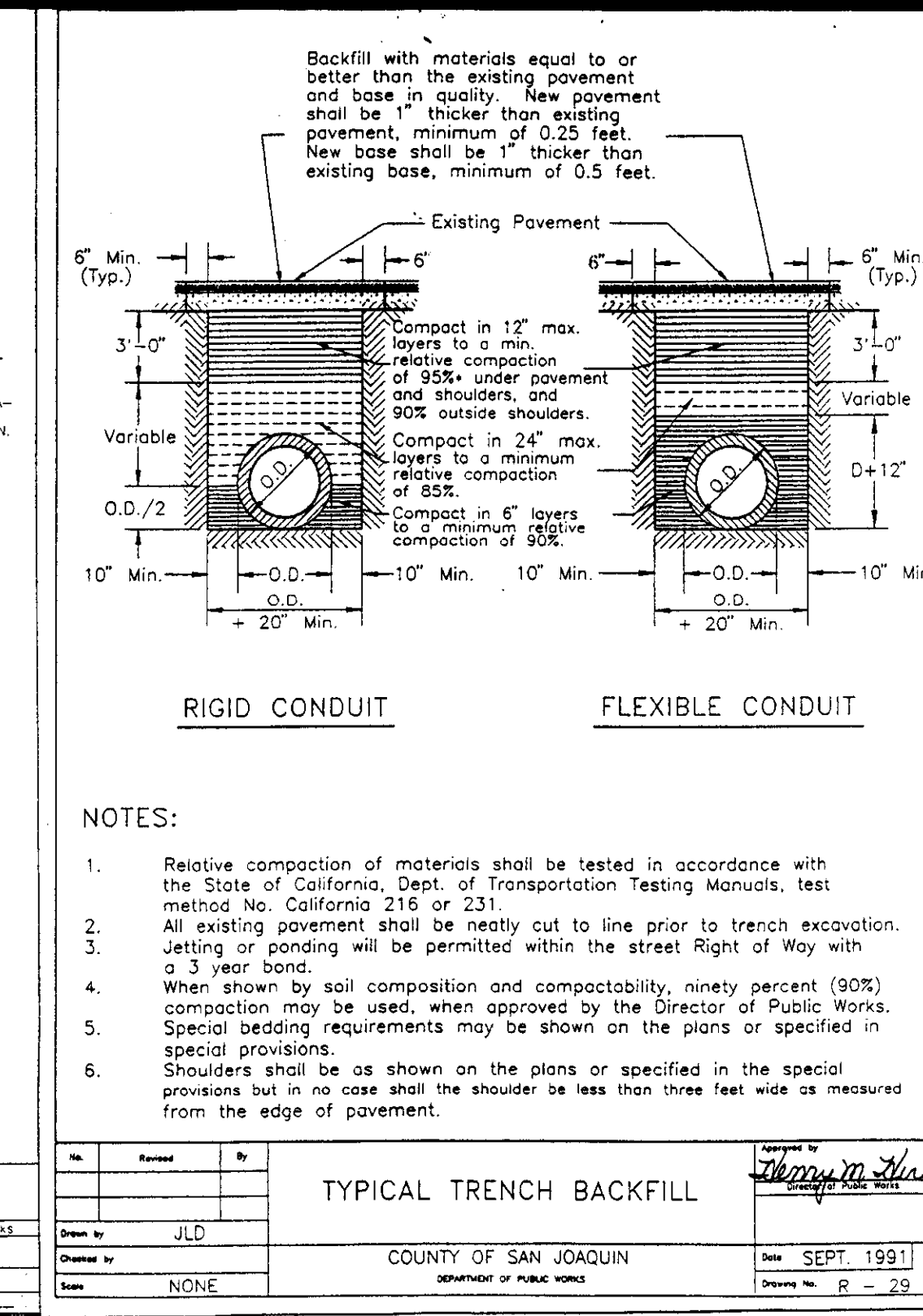
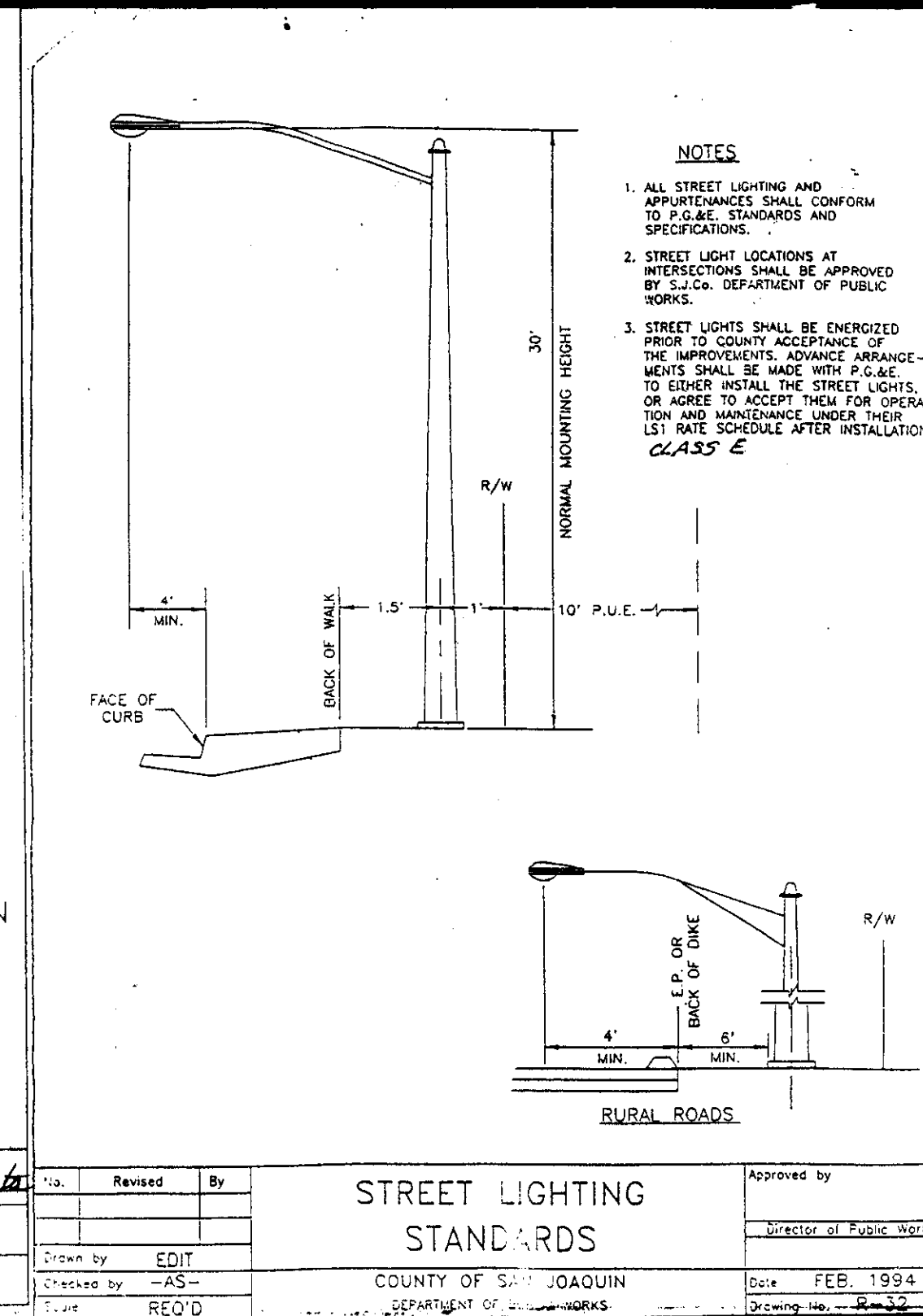
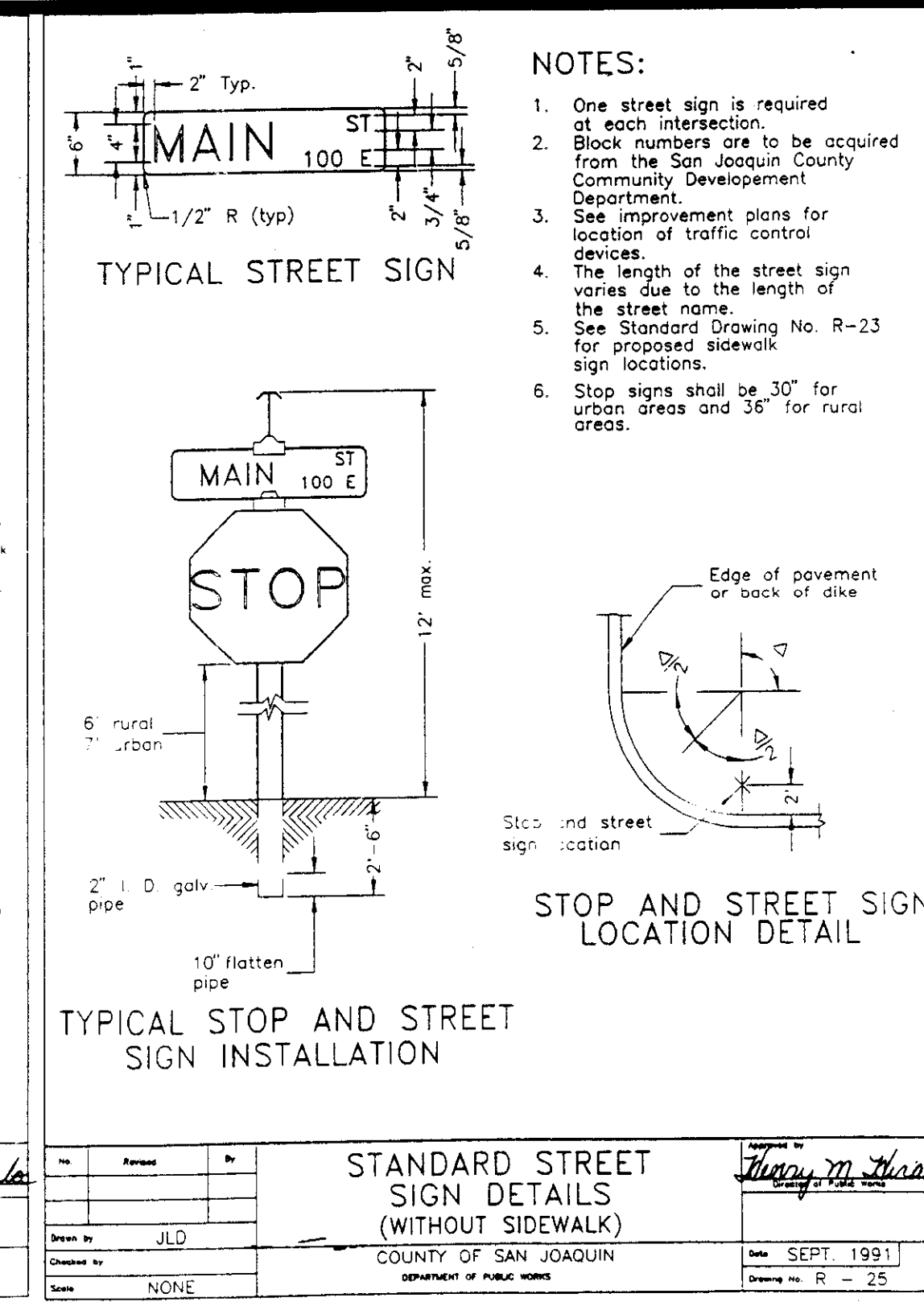
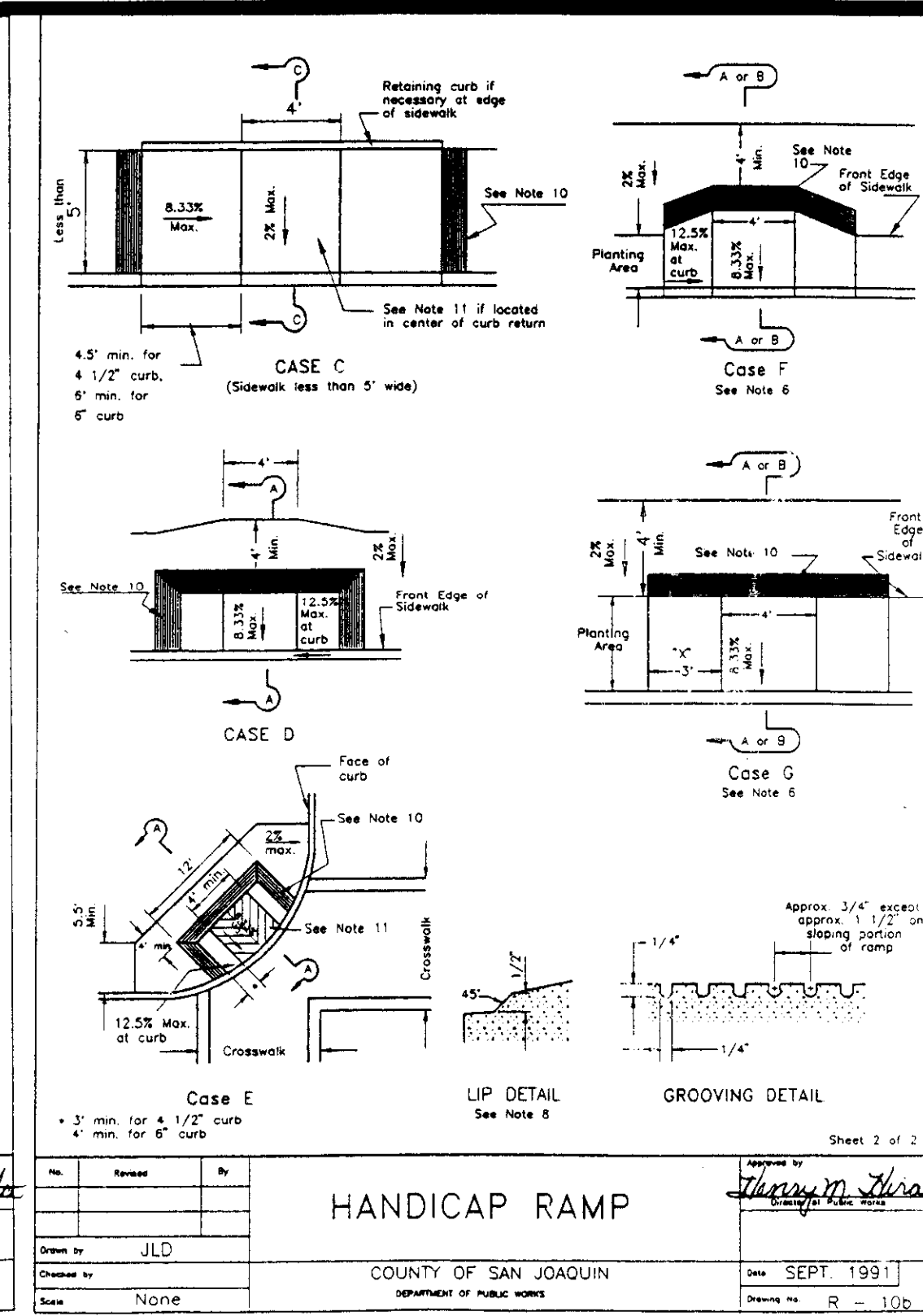
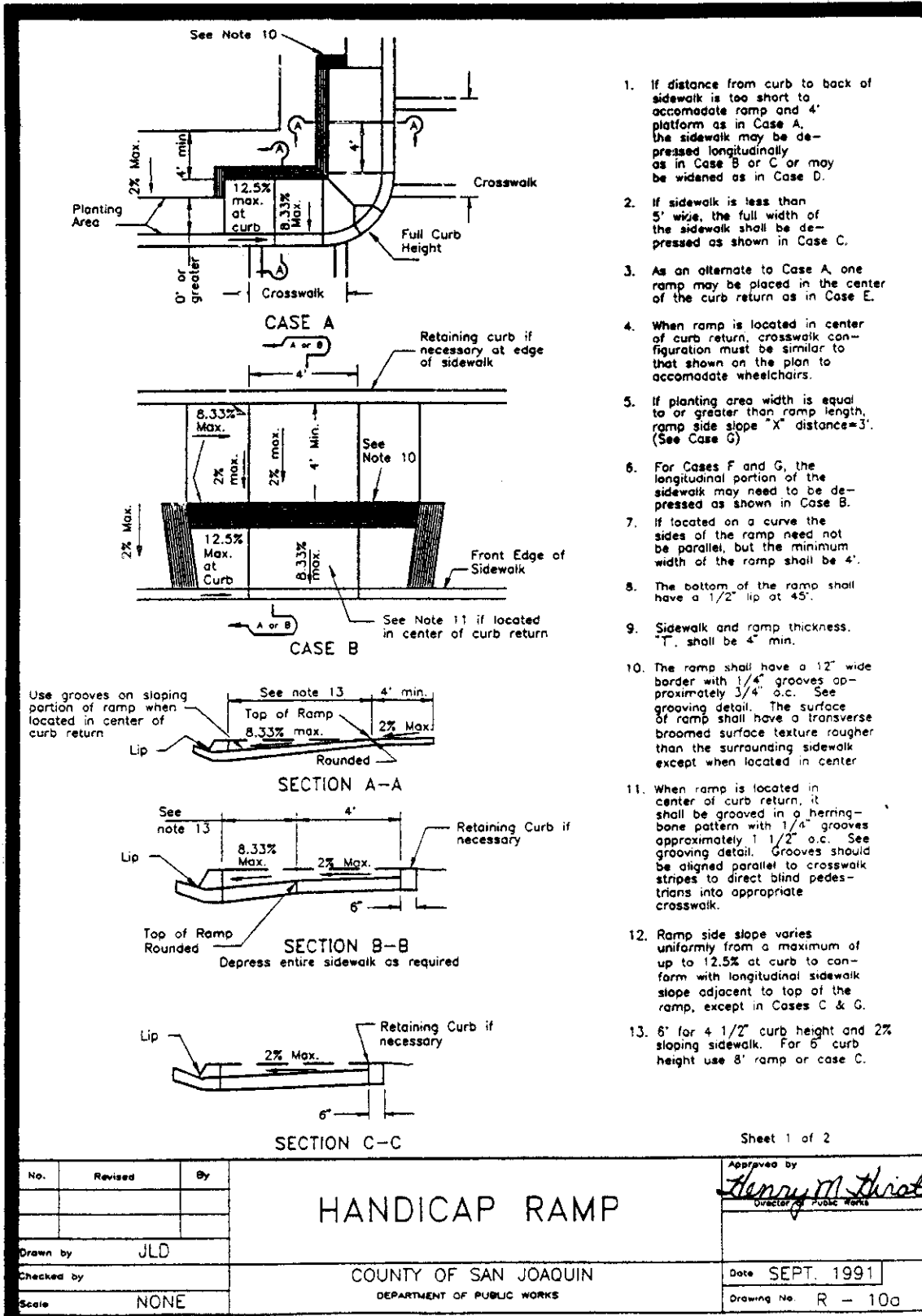
REVIEWED BY: *Michael D. Chaskey*
CITY ENGINEER RCE 22501
Res No. 87-364 DATE: Dec. 22, 1987
Rev: 1
Rev: 1

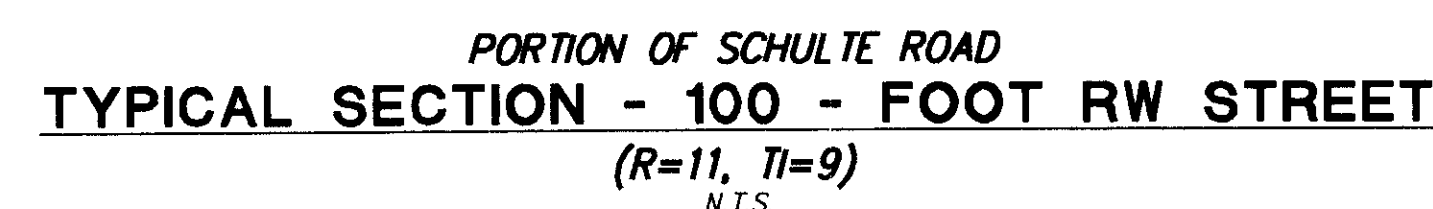
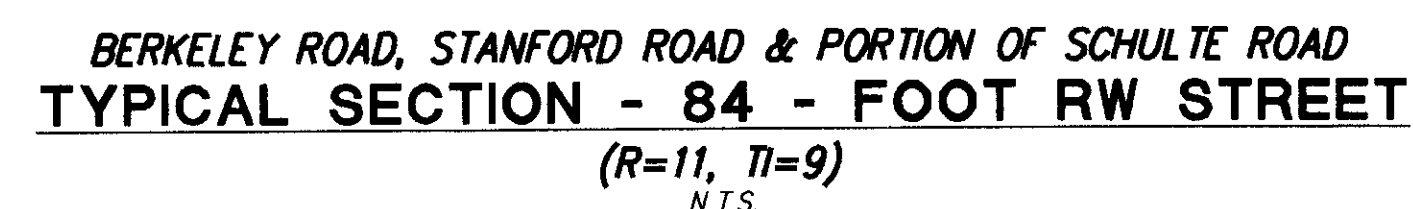
STANDARD PLAN No. 423
THRUST BLOCK

RECORD DRAWINGS

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Joseph N. Azar
44628
RCE No. 3/31/02
Exp. Date: 2/1/00





STD. PLAN NO.	DESCRIPTION
203	SEWER LATERAL
301	MANHOLE
309	MANHOLE ASSEMBLY
401	FIRE HYDRANT
402	WATER VALVE INSTALLATION
403	1", 1-1/2" & 2" WATER SERVICE
407	BLUE REFLECTIVE MARKER PLACEMENT
409	BLOW OFF FOR FUTURE EXTENSION WITH VALVE
411	COMBINATION AIR & VACUUM RELEASE VALVE ASSEMBLY & BLOWOFF
423	THRUST BLOCK
501	TRENCHING & RESURFACING
502	PIPE ZONE & BEDDING

STD. PLAN NO.	DESCRIPTION
R-6	TYPE "A" CURB, GUTTER, & SIDEWALK COMMERCIAL AND INDUSTRIAL
R-7	TYPE "B" MEDIAN CURB
R-10a, 10b	HANDICAP RAMP
R-11	SIDEWALK SCORING EXPANSION AND WEAKENED PLANE JOINTS.
R-14	SPECIAL COMMERCIAL DRIVEWAY
R-21	LEFT TURN LANE TAPER DATA
R-24	BARRICADES FOR TERMINATING STREETS
R-28	SURVEY MONUMENT FRAME & COVER ASSEMBLY
R-29	TYPICAL TRENCH BACKFILL
R-32	STREET LIGHTING POLES AND SYMBOLS
D-14	TYPE 2 CURB INLET CATCH BASIN
D-17	STANDARD STORM DRAIN MANHOLE
D-18	SADDLE-TYPE MANHOLE FOR PIPE 24" DIA. AND LARGER
S-4	FRAME & COVER (MANHOLE)
W-7	WATER-SEWER SEPARATION STANDARDS

Ruggeri - Jensen - Azar & Associates
ENGINEERING • PLANNING • ARCHITECTURE

6601 OWENS DRIVE, SUITE 155 • PLANO, TEXAS 75075
PHONE: (972) 227-9100 • FAX: (972) 227-9101

IMPROVEMENT PLANS --- PHASE 3
PATTERSON PASS BUSINESS PARK
TYPICAL SECTIONS & DETAILS
SAN JOAQUIN COUNTY, CALIFORNIA
FOR: KING & LYONS

DATE	MK	SHEET REVISIONS	BY	CK	QTY	SCALE AS SHOWN
9-14-98	△	DELETE SIDEWALK.	RF			DATE AUGUST 5, 1998
						DRAWN R.F.
						CHECKED
						P.L.C.S.
						PROJ. MGR.

00

SHEET NO.

3

OF 26 SHEETS

JOB NO.

981007

RECORD DRAWINGS

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44628 3/31/02
Joseph N. Azar RCE No. Exp. Date
Date: 4/22/00

1. THE CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD OWNER, CITY, COUNTY AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXEMPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF ENGINEER.
2. EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED AND SHEETED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE. ANY DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING, BRACING AND SHEETING, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HE SHALL EFFECT NECESSARY REPAIRS OR RECONSTRUCTION AT HIS OWN EXPENSE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH, AND/OR STRUCTURE IS FIVE FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL PROVIDE ADEQUATE SHEETING, SHORING AND BRACING OR EQUIVALENT METHOD, FOR THE PROTECTION OF LIFE, OR LIMB, WHICH SHALL CONFORM TO THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL ALWAYS COMPLY WITH OSHA REQUIREMENTS.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN PERMITS NECESSARY TO PERFORM THE WORK SHOWN IN THESE PLANS FROM THE APPROPRIATE AGENCIES.
4. THE CONTRACTOR SHALL TAKE EFFECTIVE ACTION TO PREVENT THE FORMATION OF AIRBORNE DUST NUISANCE AND SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM HIS FAILURE TO DO SO.
5. THE CONTRACTOR SHALL PROVIDE FOR INGRESS AND EGRESS FOR PRIVATE PROPERTY ADJACENT TO WORK THROUGHOUT THE PERIOD OF THE CONSTRUCTION.
6. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGGERS OR OTHER DEVICES NECESSARY TO PROVIDE FOR SAFETY.
7. THE CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR POLICE, FIRE, AMBULANCE, AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF JOB SITE.
8. ANY EXTRA CONSTRUCTION STAKING NECESSITATED SOLELY BY THE CONTRACTOR'S NEGLIGENCE WILL BE CHARGED TO THE CONTRACTOR ON A TIME AND EXPENSES BASIS, AND PAID FOR BY THE CONTRACTOR.
9. STATIONING HEREON IS ALONG STREET CENTERLINE UNLESS OTHERWISE SHOWN OR INDICATED.
10. ALL RETURN RADIi AND CURB DATA ARE TO FACE OF CURB.
11. ALL QUANTITIES AND PAY ITEMS ARE AND WILL BE BASED ON HORIZONTAL MEASUREMENTS.
12. LENGTHS OF SANITARY SEWERS AND STORM DRAINS ARE HORIZONTAL DISTANCES FROM CENTER TO CENTER OF STRUCTURES, ROUNDED OFF TO THE NEAREST FOOT.
13. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST (3) WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL UNDERGROUND SERVICE ALERT (U.S.A.), AT 800-642-2444. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED AND MERGED IN THE CONTRACT UNIT PRICE.
14. ALL EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE LOCAL AGENCY ENGINEER, AT THE CONTRACTOR'S SOLE EXPENSE.
15. ANY RELOCATION OF PUBLIC UTILITIES SHALL BE CONDUCTED IN ACCORDANCE WITH ANY AND ALL REQUIREMENTS OF THE UTILITY COMPANY INCLUDING FEES, BONDS, PERMITS AND WORKING CONDITIONS, ETC. THIS WORK SHALL BE DONE AT NO EXPENSE TO THE UTILITY COMPANY. THE OWNER SHALL PAY THE COST OF ALL SUCH RELOCATIONS WORK INCLUDING FEES, BONDS, PERMITS, ETC.
16. IF ARCHAEOLOGICAL MATERIAL ARE UNCOVERED DURING GRADING, TRENCHING OR OTHER 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 DEEMED NECESSARY.
17. RUGGERI - JENSEN - AZAR AND ASSOCIATES (RJA) DOES NOT SPECIFY NOR RECOMMEND THE USE OR INSTALLATION OF ANY MATERIAL OR EQUIPMENT WHICH IS MADE FROM, OR WHICH CONTAINS ASBESTOS FOR USE IN THE CONSTRUCTION OF THESE IMPROVEMENT. ANY PARTY INSTALLING OR USING SUCH MATERIALS OR EQUIPMENT SHALL BE SOLELY RESPONSIBLE FOR ALL INJURIES, DAMAGES, OR LIABILITIES, OF ANY KIND, CAUSED BY THE USE OF SUCH MATERIALS OR EQUIPMENT. THE PROVISIONS OF THIS NOTE SHALL APPLY UNLESS THEY ARE EXPRESSLY WAIVED IN WRITING BY RUGGERI - JENSEN - AZAR AND ASSOCIATES.
18. THE CONTRACTOR SHALL MEET AND FOLLOW ALL NPDES REQUIREMENTS IN EFFECT AT THE TIME OF CONSTRUCTION.
19. 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 RJA AT (925) 227-9100 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.

1. ALL WORK, EXCEPT SANITARY SEWER AND WATER, SHALL CONFORM TO SAN JOAQUIN COUNTY, DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS AND DETAILS PER CURRENT EDITION. THE IMPROVEMENTS ARE SUBJECT TO THE INSPECTION AND APPROVAL OF THE COUNTY PUBLIC WORKS DIRECTOR. CONTACT COUNTY PUBLIC WORKS DEPARTMENT TWO WORKING DAYS (48 HOURS) PRIOR TO THE START OF ANY WORK TO ARRANGE FOR INSPECTION.
2. ALL SANITARY SEWER AND WATER WORK SHALL BE DONE IN ACCORDANCE WITH CITY OF TRACY, DEPARTMENT OF PUBLIC WORKS STANDARDS & SPECIFICATIONS, CURRENT EDITION. THE IMPROVEMENTS ARE SUBJECT TO THE INSPECTION AND APPROVAL OF THE CITY PUBLIC WORKS DIRECTOR. CONTACT CITY PUBLIC WORKS DEPARTMENT TWO WORKING DAYS (48 HOURS) PRIOR TO THE START OF ANY SANITARY SEWER AND WATER WORK TO ARRANGE FOR INSPECTION.
3. THE CONTRACTOR SHALL OBTAIN PERMITS FROM THE CITY OF TRACY AND SAN JOAQUIN COUNTY PUBLIC WORKS DEPARTMENT PRIOR TO BEGINNING WORK.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE COUNTY OR THE CITY, AND RUGGERI-JENSEN-AZAR AND ASSOCIATES, UPON DISCOVERY OF ANY CONFLICTS WITH THE PLANS, SPECIFICATIONS OR FIELD CONDITIONS. ANY DEVIATIONS OR CHANGES IN THESE PLANS WITHOUT OFFICIAL APPROVAL OF THE DESIGN ENGINEER SHALL ABSOLVE THE DESIGN ENGINEER OF ANY AND ALL RESPONSIBILITY OF SAID DEVIATION OR CHANGE.
5. THE CONTRACTOR SHALL NOT DESTROY ANY PERMANENT SURVEY POINTS WITHOUT THE CONSENT OF THE COUNTY SURVEYOR. ANY PERMANENT MONUMENTS OR POINTS DESTROYED SHALL BE REPLACED BY A LICENSED CIVIL ENGINEER AUTHORIZED TO DO SURVEYING, OR A LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE, BEFORE ACCEPTANCE OF IMPROVEMENTS BY SAN JOAQUIN COUNTY.
6. ALL CONSTRUCTION STAKING SHALL BE DONE BY A REGISTERED CIVIL ENGINEER, AUTHORIZED TO DO SURVEYING OR A LICENSED LAND SURVEYOR.
7. EXISTING UTILITIES ARE PLOTTED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THESE UTILITIES. THE CONTRACTOR SHALL NOT DO ANY EXCAVATIONS UNTIL ALL UTILITY AGENCIES OF SAN JOAQUIN COUNTY AND THE CITY OF TRACY HAVE BEEN NOTIFIED AND HAVE BEEN GIVEN THE OPPORTUNITY TO MARK THEIR FACILITIES IN THE FIELD.
8. CONTRACTOR SHALL CONTROL DUST AT ALL TIMES DURING CONSTRUCTION AS REQUIRED BY THE COUNTY OF SAN JOAQUIN.
9. PRIOR TO TRENCHING FOR ALL UTILITY 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. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF FIELD VERIFICATION. DESIGN ENGINEER SHALL BE ALLOWED REASONABLE TIME FOR CONFLICT RESOLUTION.
10. MANHOLES, VALVES, CLEANOUTS, ETC. SHALL BE BROUGHT TO FINISH GRADE BY THE CONTRACTOR AFTER THE FINAL PAVING COURSE IS PLACED. WATER VALVES MUST REMAIN ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE NECESSARY PUBLIC AND PRIVATE ENTITIES, WHO HAVE AN INTEREST IN THE CONSTRUCTION OF THESE IMPROVEMENTS AS IT IMPACTS THEM, IN A TIMELY MANNER TO ALLOW THEM TO SEND THE NECESSARY REPRESENTATIVES TO THE JOB SITE FOR INSPECTION AND OBSERVATION PURPOSES.
12. THE NUMBER AND LOCATIONS OF CONSTRUCTION STAKES SHALL BE DETERMINED BEFORE THE CONSTRUCTION BEGINS. ALL STAKING REQUESTS SHOULD BE DIRECTED TO THE DESIGN ENGINEER A MINIMUM OF TWO WORKING DAYS PRIOR TO ACTUAL NEED. ANY ADDITIONAL STAKING OR RESTAKING WILL ONLY BE DONE AS DIRECTED AND AUTHORIZED BY THE OWNER, OR HIS AUTHORIZED AGENT. RESTAKING WILL BE BILLED TO THE CONTRACTOR.
13. THE EXISTING TOPOGRAPHY AND IMPROVEMENTS SHOWN ON THESE PLANS ARE BASED ON A FIELD SURVEY DATED MARCH 1993.

1. ALL CONSTRUCTION MATERIALS AND METHODS SHALL COMPLY WITH THE ORDINANCES, SPECIFICATIONS, AND STANDARDS OF SAN JOAQUIN COUNTY AND THE CITY OF TRACY (WATER AND SEWER ONLY), EXCEPT AS NOTED BELOW FOR SPECIFIC UTILITIES.
2. TRAFFIC CONTROL, MAINTENANCE AND OPERATION SHALL COMPLY WITH THE FOLLOWING STATE STANDARD SPECIFICATION: SECTION 7-1.09 "PUBLIC SAFETY", SECTION 7-108 "PUBLIC CONVENIENCE", AND SECTION 12 "CONSTRUCTION AREA TRAFFIC CONTROL DEVICES". CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL NECESSARY TRAFFIC CONTROL, INCLUDING TEMPORARY STRIPING, INSTALLATION OF SEMI PERMANENT TRAFFIC CONTROL DEVICES, AT ALL TIMES.
3. ALL TRENCH EXCAVATION OVER FIVE FEET IN DEPTH SHALL BE SHORED IN ACCORDANCE WITH CAL-OSHA "CONSTRUCTION SAFETY ORDERS" CURRENT EDITION. CONTRACTOR MUST HAVE VALID TRENCH SHORING PERMIT ISSUED BY CAL-OSHA.
4. CONTRACTOR SHALL PROVIDE A MINIMUM OF 2 LANES, ONE IN EACH DIRECTION, AT ALL TIMES ON PATTERSON PASS ROAD.

SANITARY SEWER

1. GRAVITY SANITARY SEWER PIPE AND LATERAL SHALL BE VITRIFIED CLAY PIPE (VCP) PER CITY STANDARD SPECS. 207.01.
2. SANITARY SEWER MANHOLE SHALL CONFORM TO THE CITY OF TRACY STANDARD DRAWING NO. 301.
3. ALL SANITARY SEWER MAINS SHALL BE TELEVISION INSPECTED, AND PASS A LEAKAGE TEST PRIOR TO ACCEPTANCE BY THE CITY OF TRACY. (SEE NOTE NO. 10, APPENDIX "B", CITY OF TRACY DESIGN STANDARDS.)
4. ALL SANITARY SEWER LATERALS SHALL HAVE A CLEANOUT ONE FOOT INSIDE THE RIGHT-OF-WAY. SANITARY SEWER CLEANOUT SHALL CONFORM TO THE CITY OF TRACY STANDARD DRAWING NO. 203.
5. THE SANITARY SEWER FORCE MAIN (SSFM) SHALL BE CLASS 50 DUCTILE IRON PIPE (DIP), AND SHALL HAVE A MINIMUM COVER OF 42" OVER THE PIPE.
6. SSFM FITTINGS SHALL BE MECHANICAL JOINT AND DUCTILE IRON.
7. TRENCH BEDDING AND BACKFILL SHALL CONFORM TO THE DETAIL ON SHEET #5.

1. ALL STORM DRAIN SHALL BE REINFORCED CONCRETE PIPE (RCP) CLASS 111, UNLESS OTHERWISE NOTED ON THE PLANS. AT THE CONTRACTOR'S OPTION, AN EQUIVALENT STRENGTH CAST-IN-PLACE CONCRETE PIPE MAY BE USED.
2. CATCH BASIN SHALL BE TYPE 2 PER SAN JOAQUIN COUNTY STANDARD DRAWING NO. D-14.
3. STORM DRAIN MANHOLES SHALL BE SADDLE TYPE MANHOLE CONFORMING TO SAN JOAQUIN COUNTY STANDARD DRAWING NO. D-18. STORM DRAIN MH #22, #29 TO #33 SHALL BE PER STORM DRAIN MANHOLE DETAIL ON SHEET 4.
4. FIELD INLET SHALL BE SANTA ROSA PRE-CAST DROP INLETS MODEL "2K", "1M" OR "1R". USE MODEL "2K" FOR 18" SD CONNECTION, MODEL "1M" FOR 24" SD CONNECTION AND MODEL "1R" FOR 36" SD CONNECTION.
5. TRENCH BEDDING AND BACKFILL SHALL CONFORM TO THE DETAIL ON SHEET #4. CLASS 2 AB BEDDING SHALL BE USED IF GROUNDWATER IS ENCOUNTERED DURING INSTALLATION OF THE 72" SD.

3. WATER MAIN SHALL BE DUCTILE IRON PIPE (DIP) PER CITY STANDARD SPECS. 207.04 CLASS 50 AND SHALL HAVE A MINIMUM COVER OF 42" OVER THE PIPE.
2. ALL FITTINGS SHALL BE MECHANICAL JOINT DUCTILE IRON. FITTING WITH VALVE SHALL BE MECHANICAL JOINT BY FLANGE.
3. VALVES 10" AND SMALLER SHALL BE RESILIENT SEATED GATE VALVE CONFORMING TO THE REQUIREMENTS OF THE CITY OF TRACY STANDARD SPECIFICATIONS. NO VALVE SHALL BE INSTALLED UNTIL APPROVAL FOR THE PARTICULAR BRAND, NAME AND MANUFACTURER'S MODEL NUMBER HAS BEEN OBTAINED BY THE CITY PUBLIC WORKS DIRECTOR. LARGER VALVES SHALL BE BUTTERFLY VALVES, EPOXY LINED, CONFORMING TO THE REQUIREMENTS OF THE CITY OF TRACY STANDARD SPECIFICATIONS.
4. TESTING OF THE PIPE SHALL BE MADE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 308.15 OF THE CITY OF TRACY STANDARD SPECIFICATIONS. ALL PIPES SHALL BE TESTED AT THE PRESENCE OF THE CITY PUBLIC WORKS DIRECTOR OR HIS REPRESENTATIVE. TESTING OF THE PIPE SHALL BE DONE BEFORE CONNECTION TO THE EXISTING WATER MAIN AND AFTER COMPLETION OF THE BASIC MATERIAL. CONTRACTOR SHALL BE RESPONSIBLE FOR THE TESTING, RETESTING AND RECOMPACTION OF THE PIPE AS REQUIRED AT HIS OWN EXPENSE TO THE SATISFACTION OF THE CITY ENGINEER.
5. PRIOR TO DELIVERY TO THE JOB SITE, THE CONTRACTOR SHALL FURNISH A COMPLETE LIST OF MATERIALS BY MANUFACTURER AND MODEL NUMBER FOR APPROVAL BY THE CITY PUBLIC WORKS DIRECTOR, AND A CERTIFICATE OF COMPLIANCE SHALL BE FURNISHED BY THE MANUFACTURER FOR ALL PIPE FURNISHED.
6. ALL WATER SERVICES (DOMESTIC, FIRE, HYDRANTS, ETC.) MUST MAINTAIN 12" CLEARANCE FROM OTHER UTILITIES.
7. WATER METER BOXES SHALL BE INSTALLED FOR ALL VALVES PER CITY OF TRACY STANDARD DRAWINGS 403, 405, OR 406. NO WATER METERS WILL BE INSTALLED AT THIS TIME.
8. THRUST BLOCKS SHALL BE INSTALLED AT ALL BENDS AND FITTING PER CITY OF TRACY DETAIL #423.
9. FIRE HYDRANTS SHALL BE INSTALLED PER CITY OF TRACY DETAIL #401.
10. TRENCH BEDDING AND BACKFILL SHALL CONFORM TO THE DETAIL ON SHEET 5.

1. VERTICAL CURB, GUTTER AND SIDEWALK SHALL CONFORM TO SAN JOAQUIN COUNTY STANDARD DRAWING NO. R-6.
2. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED AT LOCATIONS SHOWN ON THE PLANS AND SHALL CONFORM TO SAN JOAQUIN COUNTY STANDARD DRAWING NO. R-10A & B.
3. EXISTING CURB, GUTTER AND SIDEWALK OUTSIDE THE WORK LIMITS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S SOLE EXPENSE AND TO THE SATISFACTION OF THE COUNTY.
4. CEMENT TO BE USED SHALL BE TYPE II PORTLAND CEMENT CONFORMING TO ASTM C150. PORTLAND CEMENT CONCRETE SHALL BE GRADE 8 AND HAVE A 28-DAY MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI. A COPY OF THE CONCRETE TAGS SHALL BE PROVIDED TO THE CITY ENGINEER FOR EACH LOAD OF CONCRETE DELIVERED TO THE PROJECT.
5. NEW CONCRETE CURB AND GUTTER SHALL BE TIED TO THE EXISTING CONCRETE CURB AND GUTTER WITH DOWELS. THE DOWELS SHALL BE NO. 4 REBARS WITH A MINIMUM LENGTH OF 12 INCHES. THE DOWELS ARE TO BE INSERTED TO A MINIMUM OF 6 INCHES INTO THE EXISTING CONCRETE CURB.
6. THE EXPOSED SURFACE OF THE CURB AND GUTTER SHALL BE BROOM FINISH. IMMEDIATELY UPON STRIPPING CURB FORMS AND PRIOR TO BACKFILLING, ALL ROCK POCKETS OR HONEYCOMBS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.

1. AGGREGATE SUBBASE SHALL BE CLASS 2 AND SHALL CONFORM TO SECTION 25 OF THE "STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, JULY 1992." AGGREGATE BASE SHALL BE CLASS 2 AND SHALL CONFORM TO SECTION 26 OF THE "STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, JULY 1992." ASPHALT CONCRETE SHALL BE TYPE "A" 3/4" MAXIMUM, MEDIUM GRADATION AND SHALL CONFORM TO SECTION 39 OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, JULY 1992."
2. ASPHALT BINDER TO BE MIXED WITH AGGREGATES SHALL BE PAVING ASPHALT AF-8000 AND SHALL CONFORM TO THE REQUIREMENTS OF SECTION 92 OF THE "STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS." AGGREGATE SHALL BE CLEAN AND FREE FROM DECOMPOSED MATERIALS, ORGANIC MATERIAL AND OTHER DELETERIOUS SUBSTANCES, AND CONFORMING TO THE REQUIREMENTS OF SECTION 39-2.02, "AGGREGATE" OF THE STATE STANDARD SPECIFICATIONS.
3. CONTRACTOR SHALL PROVIDE CONCRETE MIX DESIGN.

OWNER

KING & LYONS
47777 FREMONT BLVD.
FREMONT, CA 94538
(510) 656-1900

DESIGN ENGINEER

RUGGERI-JENSEN-AZAR & ASSOCS.
6601 OWENS DR., #155
PLEASANTON, CA 94588
(925) 227-9100

TRAFFIC SIGNAL

CCS
6 CROW CANYON COURT
SAN RAMON, CA 94583-1621
(925) 314-1220

TELEPHONE

PACIFIC BELL
44 W. YOKUTS AVE.
STOCKTON, CA 95207
(209) 474-4742

STREETS-STORM DRAIN
TRAFFIC SIGNALS

SAN JOAQUIN COUNTY
1810 HAZELTON AVE.
STOCKTON, CA. 95207
(209) 468-3120

GAS - ELECTRICITY

PG&E
55 E. TENTH ST
TRACY, CA. 95376
(209) 836-0440

SANITARY SEWER

CITY OF TRACY
520 TRACY BLVD.
TRACY, CA. 95376
(209) 831-4420

1. ALL STREET LIGHTS SHALL BE CONSTRUCTED TO SAN JOAQUIN COUNTY STANDARD R-32, R-33 AND R-34.
2. LUMINAIRES SHALL BE 150 WATT, HIGH PRESSURE SODIUM FOR STREET LIGHTS ON SCHULTE ROAD, STANFORD ROAD & BERKELEY ROAD AND 250 WATT FOR THE LIGHTS ON PATTERSON PASS ROAD.

1. TRAFFIC SIGNS SHALL BE INSTALLED AT LOCATIONS SPECIFIED ON THE PLANS, IN ACCORDANCE WITH THE REQUIREMENTS OF CALTRANS TRAFFIC MANUAL, LATEST EDITION.
2. PAVEMENT STRIPING SHALL INCLUDE STOP BARS, CENTERLINE STRIPING OR MARKERS, CROSSWALKS AND ALL OTHER MARKINGS REQUIRED BY THE COUNTY AND AS SHOWN ON THESE PLANS. STRIPING SHALL BE DONE WITH HOT APPLIED THERMOPLASTIC AND REFLECTIVE MARKERS CONFORMING TO THE REQUIREMENTS OF SECTION 84 & 85 OF CALTRANS SPECIFICATIONS.
3. EXISTING STRIPING PROPOSED TO BE REMOVED SHALL BE DONE BY SANDBLASTING.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING EXISTING STRIPING, MARKING OR LEGENDS AS NECESSARY PRIOR TO PLACING THE NEW STRIPING, MARKING AND LEGENDS AS SHOWN ON THE SIGNING AND STRIPING PLAN TO AVOID CONFLICTS.

1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE EFFECTIVE FOR CONSTRUCTION DURING THE RAINY SEASON (OCTOBER 1 TO APRIL 1).
2. NO STORM RUNOFF WATER SHALL BE ALLOWED TO DRAIN DIRECTLY INTO THE EXISTING UNDERGROUND STORM SYSTEM, THE CALIFORNIA AQUEDUCT OR THE DELTA MENDOTA CANAL. BEFORE THE ONSITE STORM DRAIN SYSTEM IS INSTALLED.
3. AS SOON AS IS PRACTICAL AFTER THE NEW STORM SYSTEM IS INSTALLED, THE CATCH BASINS SHALL BE INSTALLED AND STRAW BALES SHALL BE PLACED AROUND THE CATCH BASINS.
4. SHOULD THE PROPOSED ONSITE STORM SYSTEM NOT BE INSTALLED BY OCTOBER 1, TEMPORARY SEDIMENT BASINS SHALL BE CONSTRUCTED AROUND THE OPENINGS OF ANY EXISTING STORM PIPES WHICH DRAIN THE SITE.
5. THE NAME, ADDRESS AND 24 HOUR TELEPHONE NUMBER OF THE PERSON RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE PROVIDED TO THE COUNTY.
6. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED. CHANGES TO THE EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS, BUT ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF THE COUNTY PUBLIC WORKS DIRECTOR.
7. DURING THE RAINY SEASON SPECIFIED IN NOTE 1 ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIALS AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LOADED RUNOFF FROM ENTERING ANY STORM DRAINAGE SYSTEM.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT AND REPAIR ALL EROSION CONTROL FACILITIES AT THE END OF EACH WORK DAY DURING THE RAINY SEASON.
9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT TEMPORARY BORROW AREAS AND/OR STOCKPILES WITH APPROPRIATE EROSION CONTROL MEASURES SATISFACTORY TO THE COUNTY PUBLIC WORKS DIRECTOR.
10. ALL EROSION CONTROL DEVICES SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR UPON COMPLETION OF THE PROJECT.
11. CONTRACTOR SHALL TAKE MEASURES NECESSARY TO PROHIBIT NON-STORM WATER DISCHARGES FROM ENTERING THE STORM SYSTEM OR ADJACENT WATERWAY (I.E. CLEANING OF EQUIPMENT, WASHING OF STREETS AND STORAGE OF EXCESS MATERIALS).

RECORD DRAWINGS		
These Record Drawings have been prepared based on information submitted by others, partially or totally. While this information is believed to be reliable, Ruggeri-Jensen-Azar & Associates is not responsible for its accuracy, nor for errors or omissions which may have been incorporated into these documents as a result.		
	44628	3/31/02
Joseph M. Azar	RCE No.	Exp. Date
Date:	2/22/0	

IMPROVEMENT PLANS --- PHASE 3
PATTERSON PASS BUSINESS PARK

NOTES

SAN JOAQUIN COUNTY, CALIFORNIA

FOR: KING & LYONS

SCALE	NO SCALE	BY	OK	QTY
DATE	JULY 22, 1998			
DRAWN	R.F.			
CHECKED	F.K.S.			
PROJ. MGR.	F.K.S.			

2

OF 26 SHEETS
JOB NO. 981007

CA 94588
300

**Ruggeri -
Rensen -
Azar & Associates**
PROFESSIONAL REAL ESTATE BROKERS
6601 OWENS DRIVE, SUITE 155 • P.O. BOX 1000
PHOENIX, ARIZONA 85016 • PHONE: (602) 227-9100 • FAX: (602) 227-9101

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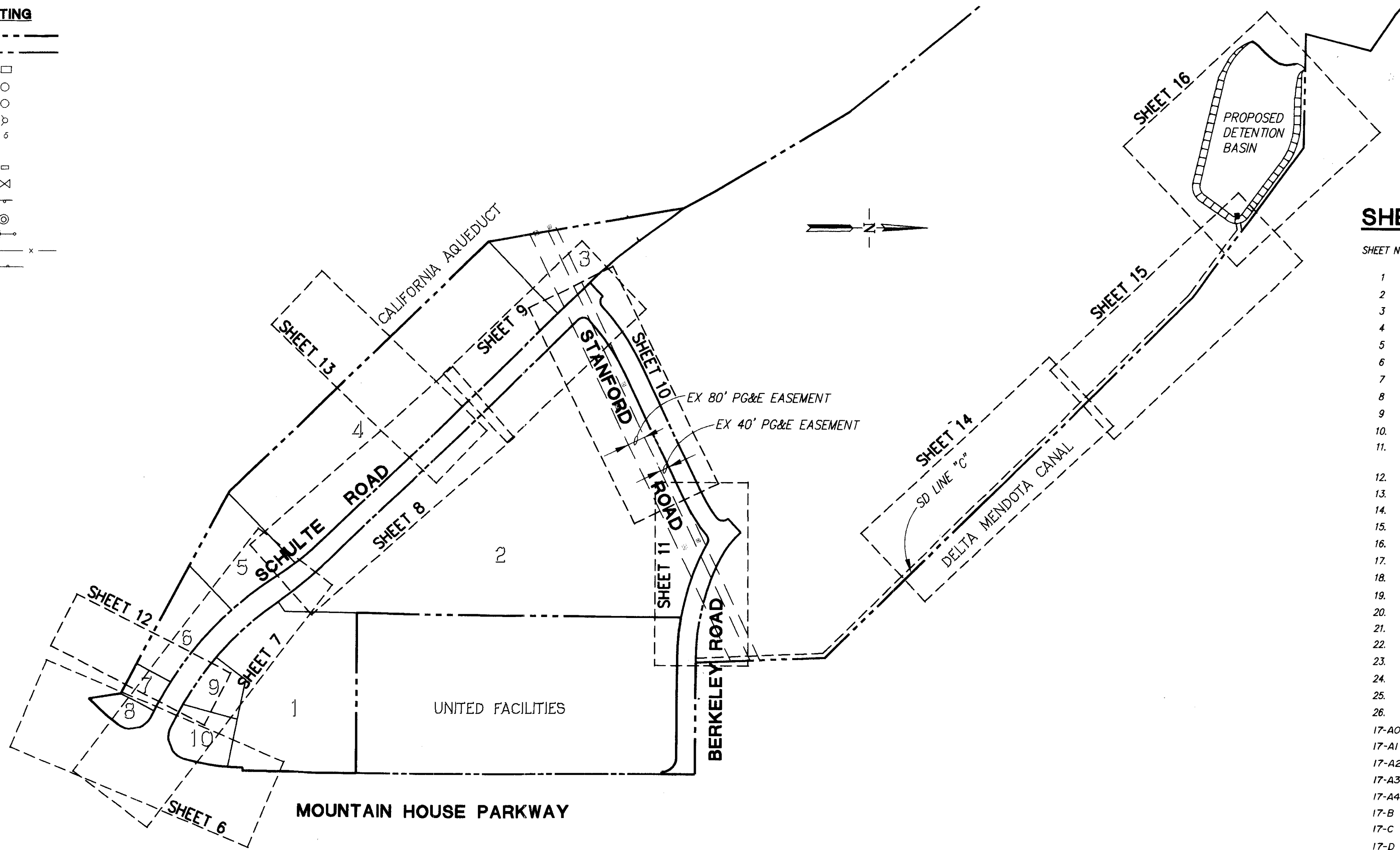
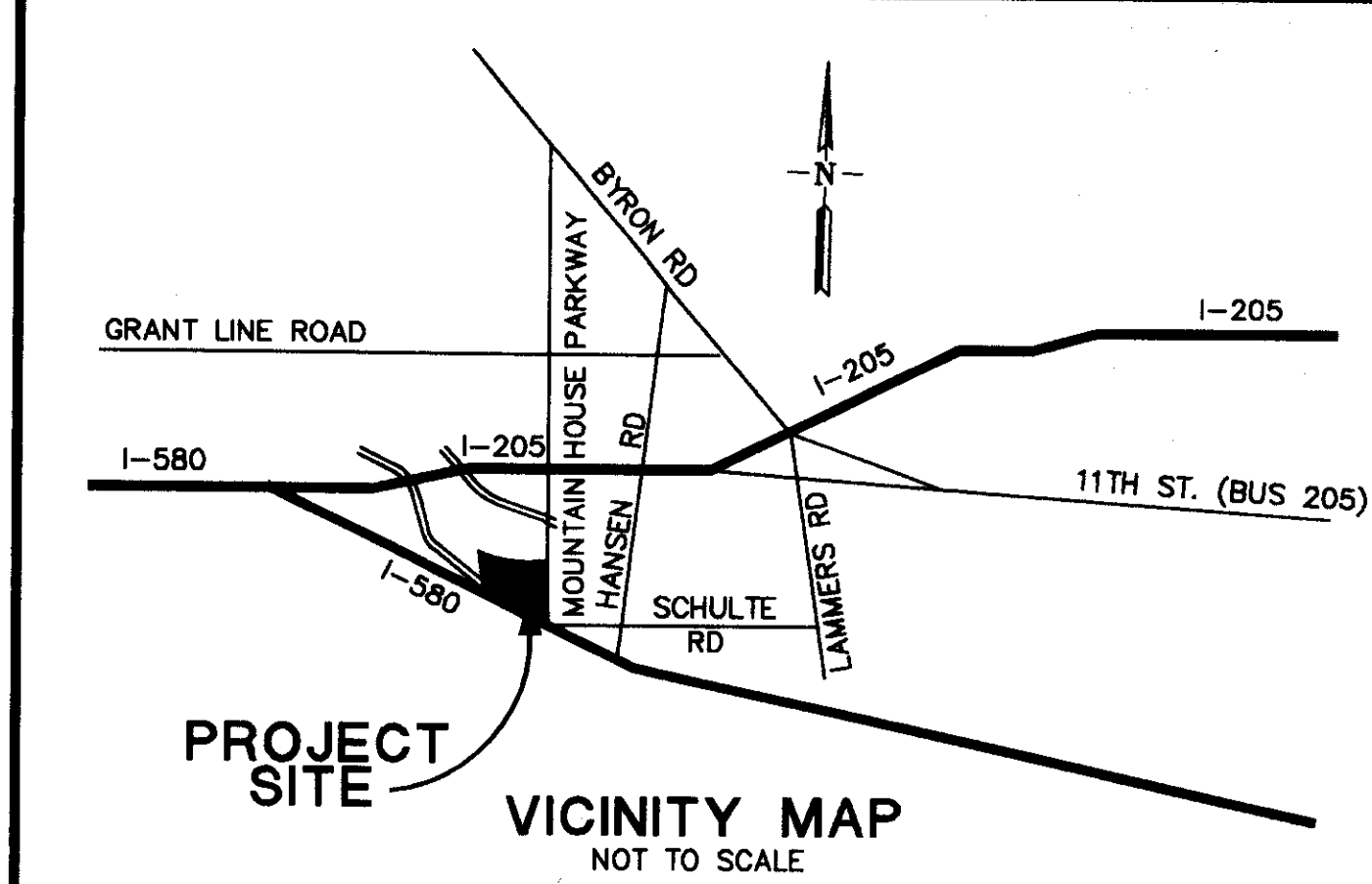
IMPROVEMENT PLANS
FOR
PATTERSON PASS BUSINESS PARK
PHASE 3
SAN JOAQUIN COUNTY, CALIFORNIA

BENCHMARK

BM: 11.6A-BRASS DISC ON THE NORTHEAST CORNER
OF THE BRIDGE ON PATTERSON PASS ROAD OVER
THE CALIFORNIA AQUEDUCT. ELEVATION = 251.19

LEGEND

PROPOSED	DESCRIPTION	EXISTING
---	TRACT BOUNDARY	---
---	RIGHT OF WAY	---
■	CATCH BASIN (CB)	□
●	STORM MANHOLE (SDMH)	○
●	SEWER MANHOLE (SSMH)	○
●	FIRE HYDRANT (FH)	●
●	BLOW OFF (BO)	●
●	SANITARY SEWER CLEAN OUT (S.S.C.O.)	●
⊗	WATER METER	⊗
⊗	WATER VALVE	⊗
⊗	TRAFFIC SIGN	⊗
⊗	MONUMENT	⊗
⊗	STREET LIGHT	⊗
---	FENCE	---
---	BARRICADE	---
FC	FACE OF CURB	
RW	RIGHT OF WAY	
CL	CENTER LINE	
SW	SIDEWALK	
EC	END OF CURVE	
BC	BEGINNING OF CURVE	
BVC	BEGIN VERTICAL CURVE	
EVC	END VERTICAL CURVE	
PRC	POINT OF REVERSE CURVE	
HP	HIGH POINT	
TC	TOP OF CURB	
LP	LOW POINT	
FL	FLOW LINE	
VC	VERTICAL CURVE	
PCC	POINT OF COMPOUND CURVE	
PVI	POINT OF VERTICAL INTERSECTION	
RET	CURB RETURN	
INV	INVERT ELEVATION	
GB	GRADE BREAK	
SDE	STORM DRAIN EASEMENT	
AC	ASPHALTIC CONCRETE	
AB	AGGREGATE BASE	
RCP	REINFORCED CONCRETE PIPE	
SD	STORM DRAIN	
SS	SANITARY SEWER	
W	WATER	
CB	CATCH BASIN	
TBO	TEMPORARY BLOW OFF	
BM	BENCHMARK	
SL	STREET LIGHT	
RT	RIGHT	
LT	LEFT	



SHEET INDEX

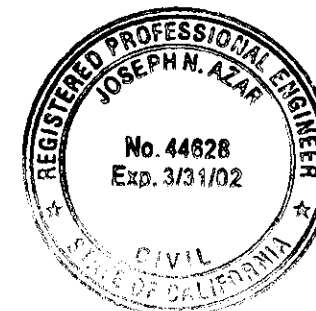
SHEET NO	DESCRIPTION
1	TITLE SHEET
2	NOTES
3	TYPICAL SECTIONS & DETAILS
4	DETAILS
5	DETAILS
6	PLAN & PROFILE --- MOUNTAIN HOUSE PARKWAY STA. 58+00 TO 66+10.57
7	PLAN & PROFILE --- SCHULTE ROAD STA 10+00 TO 21+00
8	PLAN & PROFILE --- SCHULTE ROAD STA. 21+00 TO 32+00
9	PLAN & PROFILE --- SCHULTE ROAD STA 32+00 TO 39+38.24
10	PLAN & PROFILE --- STANFORD ROAD STA. 1+00 TO 12+00
11	PLAN & PROFILE --- STANFORD ROAD STA. 12+00 TO 13+46.66 & BERKELEY ROAD
12	PLAN & PROFILE --- SD LINE "A"
13	PLAN & PROFILE --- SD LINE "B"
14	PLAN & PROFILE --- SD LINE "C" STA. 18+50 TO 23+50
15	PLAN & PROFILE --- SD LINE "C" STA. 23+50 TO 35+55.36
16	DETENTION BASIN
17	GRADING PLAN
18	GRADING PLAN
19	SIGNING & STRIPING PLAN --- MOUNTAIN HOUSE PARKWAY
20	SIGNING & STRIPING PLAN --- SCHULTE ROAD
21	SIGNING & STRIPING PLAN --- STANFORD ROAD/BERKELEY ROAD
22	CROSS SECTION --- MOUNTAIN HOUSE PARKWAY STA. 60+50 TO 64+00
23	CROSS SECTION --- MOUNTAIN HOUSE PARKWAY STA. 64+50 TO 66+00
24	TRAFFIC SIGNAL PLAN --- MOUNTAIN HOUSE PARKWAY/SCHULTE ROAD
25	TRAFFIC SIGNAL PLAN --- MOUNTAIN HOUSE PARKWAY/SCHULTE ROAD
26	TRAFFIC SIGNAL PLAN --- MOUNTAIN HOUSE PARKWAY/SCHULTE ROAD
17-A0	RETAINING WALL PLAN
17-A1	MASONRY RETAINING WALL
17-A2	MASONRY RETAINING WALL
17-A3	MASONRY RETAINING WALL
17-A4	MASONRY RETAINING WALL
17-B	MASONRY RETAINING WALL
17-C	MASONRY RETAINING WALL
17-D	MASONRY RETAINING WALL

LOCATION MAP
SCALE 1" = 300'

RECORD DRAWINGS
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44628 3/31/02
RCE No. Exp. Date
Joseph N. Azar
Date: 12/22/00

PLANS PREPARED UNDER THE DIRECTION OF:

JOSEPH N. AZAR
RUGGERI-JENSEN-AZAR & ASSOC.
R.C.E. 44628
(EXPIRES 3-31-2002)



Kuldeep C. Sharma DATE 10/19/98
KULDEEP SHARMA
ASSISTANT DIRECTOR OF PUBLIC WORKS
CITY OF TRACY

Manuel Lopez DATE 9/29/98
HENRY M. HIRATA
DIRECTOR OF PUBLIC WORKS
SAN JOAQUIN COUNTY
RCE # 21258
EXP. DATE: 09/30/2001

Steve Dalton
STEVE DALTON
FIRE MARSHAL
STC FIRE PREVENTION BUREAU
TRACY RURAL FIRE DISTRICT

7-23-98
DATE

IMPROVEMENT PLANS --- PHASE 3
PATTERSON PASS BUSINESS PARK
TITLE SHEET
SAN JOAQUIN COUNTY, CALIFORNIA
FOR: KING & LYONS

SCALE	AS SHOWN	DATE	7/21/98	DRWN	R.J.	CHECKED	E.K.S.	PROD. MGR.	E.A.S.
DATE	BY	OK	DATE	DATE	DATE	DATE	DATE	DATE	DATE
SHEET NO. 1									
OF 26 SHEETS									
JOB NO. 981007									

Ruggeri-Jensen-Azar & Associates
6601 OWENS DRIVE, SUITE 155 • PLEASANTON, CA 94588
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