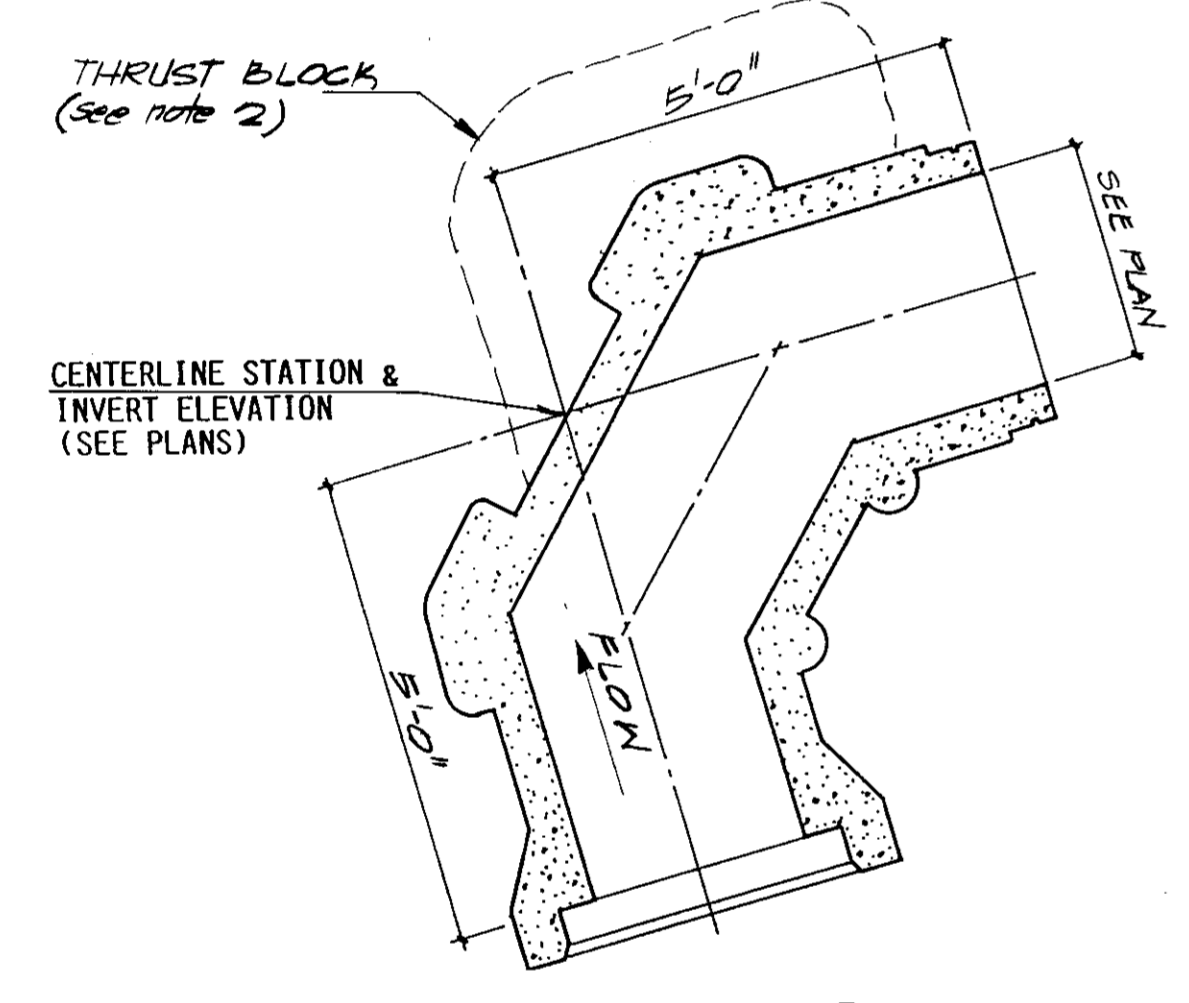


**NOTES:**

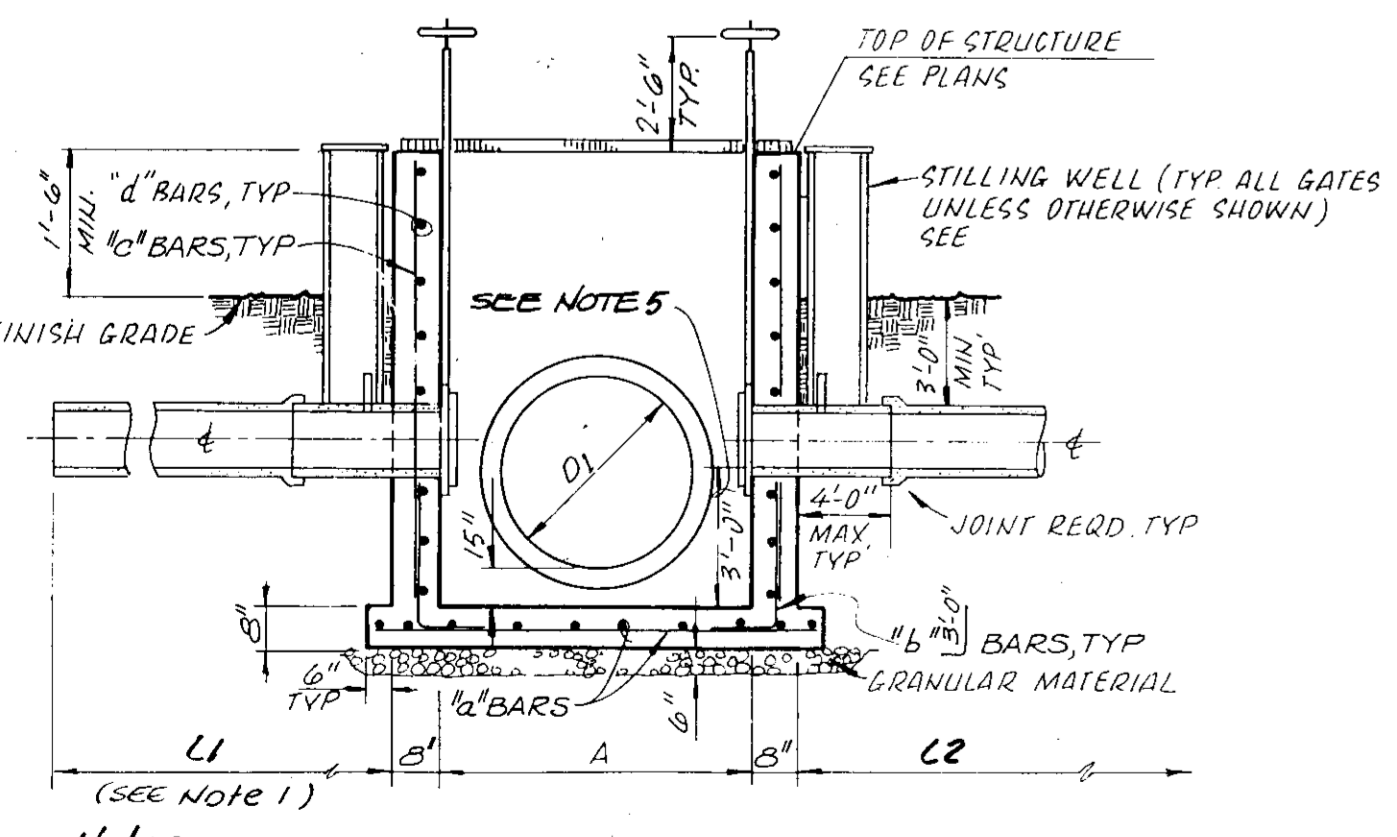
- USE THIS OUTLET FOR ALL EXIST. HEAD DITCH, HEAD OF FIELD FOR FLOODING AND EXIST. SPILL AREA CONNECTIONS CALLED OUT ON PLANS
- CONNECT TURNOUT PIPE TO ALPALFA VALVE AS PER MANUFACTURER'S RECOMMENDATIONS.
- 36" x 3" MANHOLE SECTION W/ OPENING INSTALLED AROUND VALVE IN SOME LOCATIONS IF REQUIRED BY DISTRICT ENGINEER.

**1 HEAD DITCH OUTLET CONNECTION.**



- BEND TO BE PREMANUFACTURED AND INSTALLED PER MFR'S RECOMMENDATIONS.
- PROVIDE THRUST BLOCK PER MFR'S RECOMMENDATIONS.

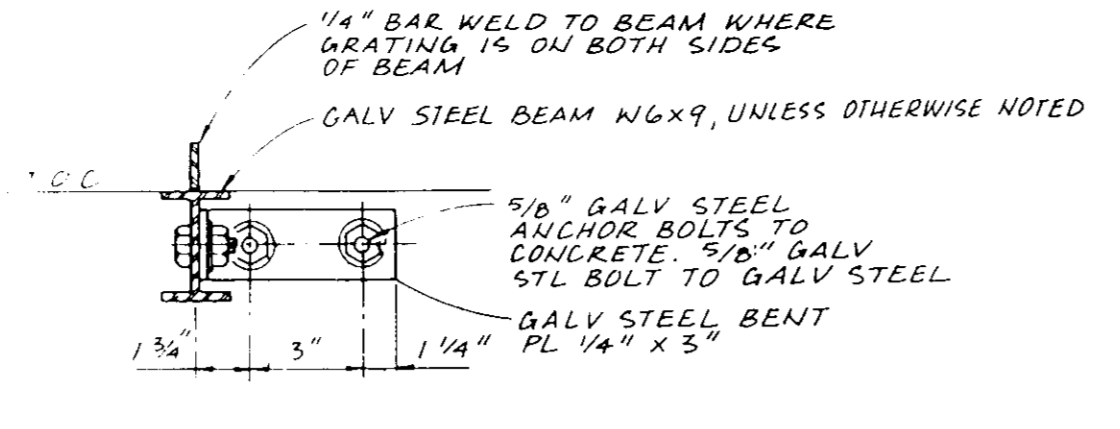
**2 DOUBLE MITER BEND**



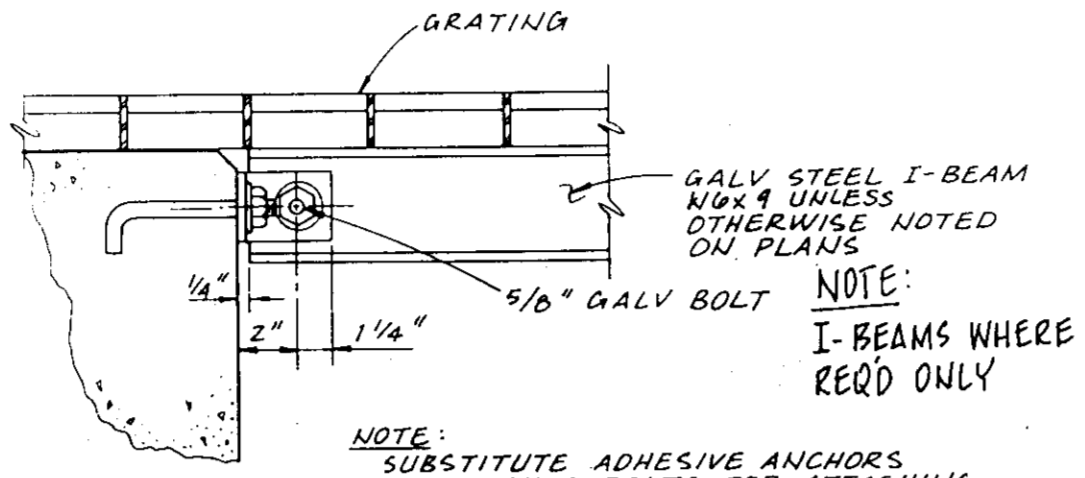
**NOTE:**

- Distance to be determined in field. Distances shown on schedule are approximate.
- Add standard opening reinforcement at wall penetrations & gate openings.
- Locate existing farm piping prior to constructing turnout and connections.
- Use 6" Waterstops between slab & walls.
- Horizontal or vertical bends on pipes w/ stilling wells shall be 9'-0" (min) from inside wall of structure.

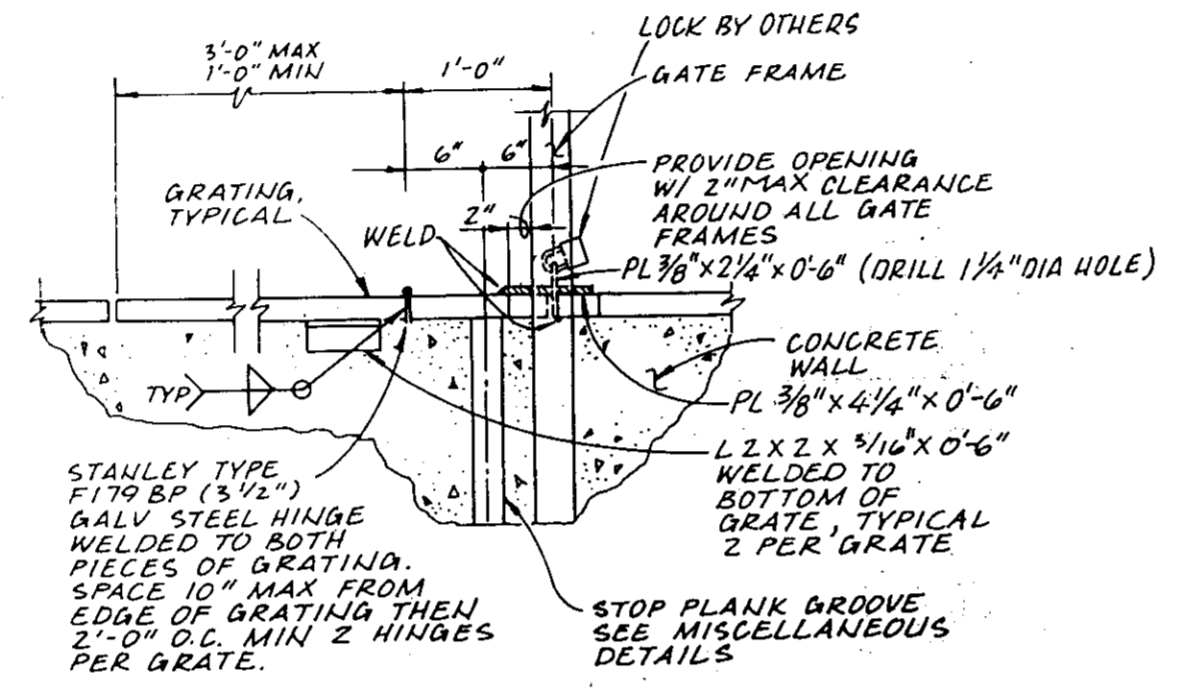
**3 TURNOUT STRUCTURE SECTION**



**BEAM SECTION**



**BEAM ELEVATION**

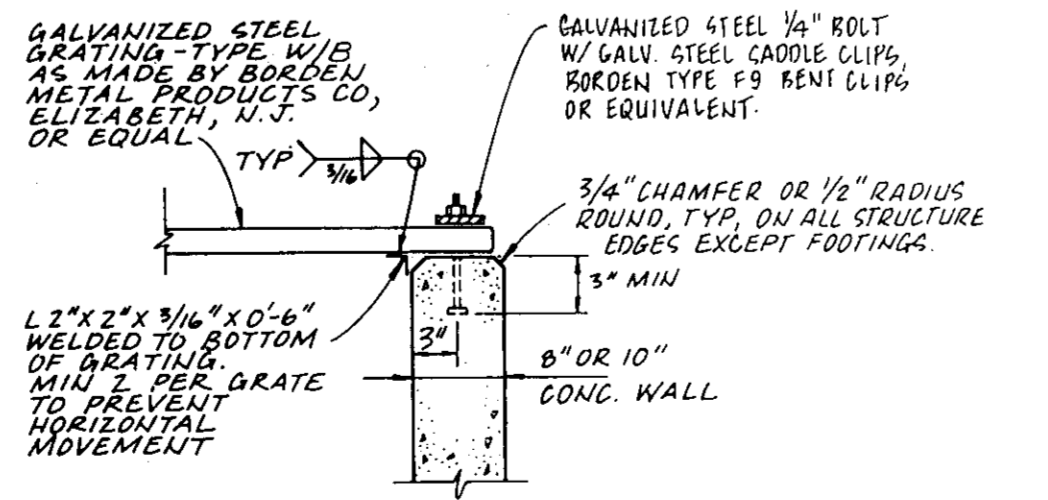


**DETAIL AT PLANKING GROOVES (CONTROL STRUCTURES ONLY)**

**GRATING NOTES**

- EXTEND GRATING CONTINUOUSLY OVER GATE GUIDES AND GATES
- NOTCH GRATING SUPPORTS AT GATES AS REQUIRED
- GRATING SPAN - SEE PLAN
- WIDTH OF GRATING SECTIONS SHALL NOT EXCEED 5'-0"
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER BASED ON FIELD DIMENSIONS PRIOR TO FABRICATION
- MATERIALS FOR SUPPORTS OF GALV STEEL GRATING TO BE GALVANIZED STEEL METAL SUPPORTS THAT ARE TO BE EMBEDDED IN CONCRETE SHALL BE GALVANIZED
- UNLESS NOTED OTHERWISE ON PLANS, GRATING THICKNESS SHALL BE AS TABULATED IN "GRATING THICKNESS TABLE" FOR APPLICABLE TRAFFIC
- BEARING BAR THICKNESS FOR GRATING TO BE 3/16" MINIMUM
- PROVIDE MISCELLANEOUS GRATING FASTENERS AS REQUIRED.
- RAND ALL EDGES AND CUTOUTS, EXCEPT FOR CUTOUTS WHICH OCCUR AROUND RISING STEAM GATES W/ 1/4" TO THE DEPTH OF THE BEARING BAR.

FOOT TRAFFIC GRATING THICKNESS TABLE	
MAXIMUM SPAN	STEEL (IN.)
3'-0"	1"
4'-0"	1 1/4"
4'-6"	1"
5'-0"	1 1/4"
5'-6"	1 1/4"
6'-0"	1 1/2"
6'-6"	1 1/4"
7'-0"	1 3/4"



**GRATING SUPPORT DETAIL**

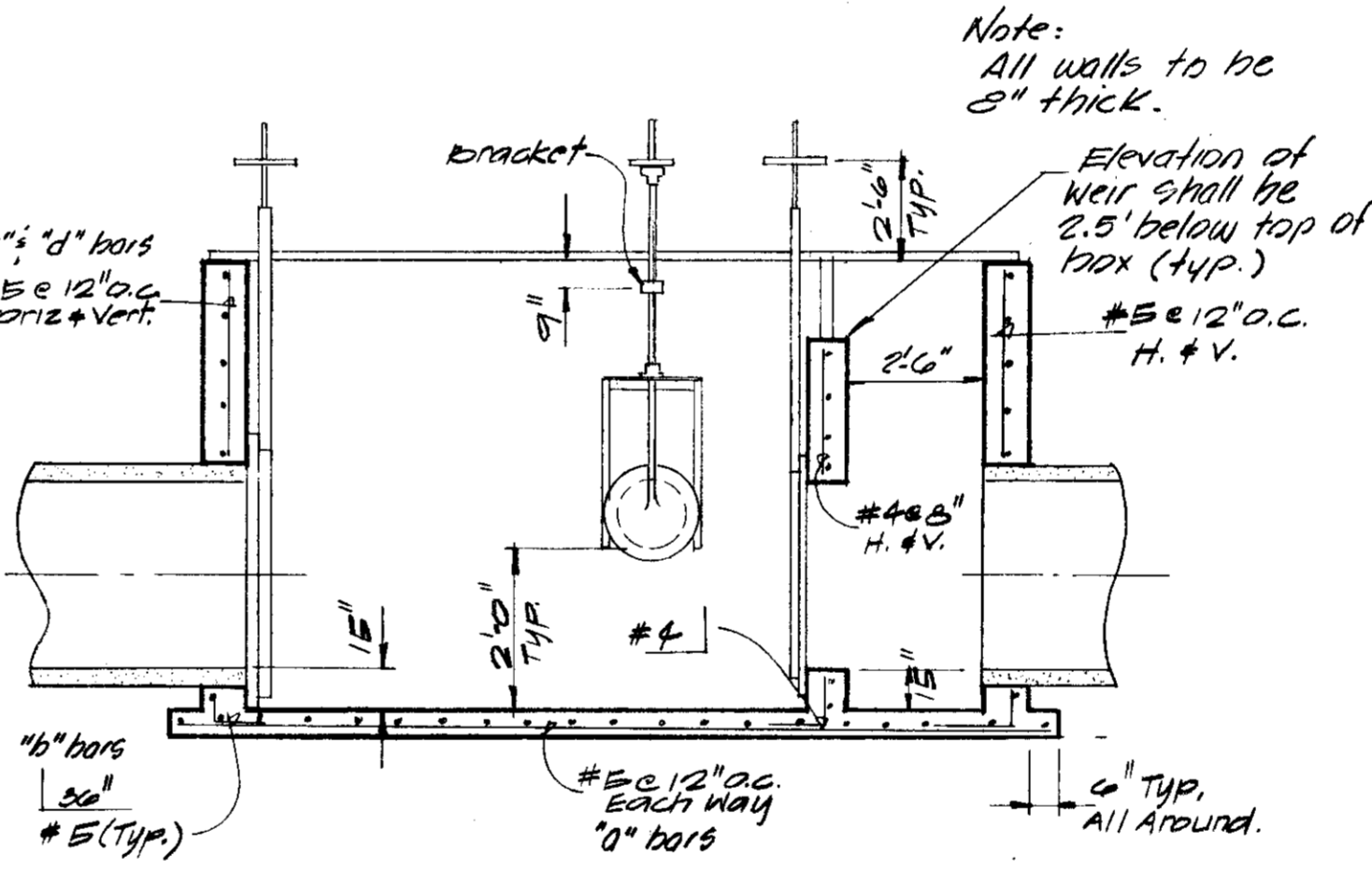
**4 GRATE DETAIL**

**GENERAL STRUCTURAL NOTES**

- REINFORCING DETAILS**
- UNLESS OTHERWISE SHOWN, CONC WALLS AND SLABS SHALL BE REINF AS FOLLOWS: #4@12" EW CENTER OF 6" SECTIONS; #5@12" EW CENTER OF 8" SECTIONS; #4@12" EW OF 10" SECTIONS; #5@12" EW OF 12" SECTIONS. SINGLE MAT REINF SHALL BE AT CENTER OF SECTION, UNLESS SHOWN OTHERWISE.
  - MIN CLR FOR REINF BARS, UNLESS SHOWN OTHERWISE, SHALL BE 3" WHEN PLACED ON GROUND; FOR SURFACES EXPOSED TO WATER OR WEATHER - 1 1/2" CLR FOR #5 BAR AND SMALLER AND 2" CLR FOR LARGER BARS; INTERIOR SLABS 3/4" CLR, INTERIOR BEAMS 1 1/2" CLR
  - UNLESS OTHERWISE NOTED, ALL WALL REINF BARS SHALL BE CONT AROUND CORNERS AND THROUGH COL OR PLASTERS. REINF SHALL BE EXTENDED INTO CONNECTION WALLS AND LAPPED ON THE OPPOSITE FACE OF THE CONNECTING WALLS, AS INDICATED ELSEWHERE ON THIS SHEET. VERT WALL BARS SHALL BE LAPPED WITH DOWELS FROM BASE SLABS AND EXTENDED INTO THE TOP FACE OF ROOF SLABS AND LAPPED WITH TOP SLAB REINF. UNLESS INDICATED OTHERWISE, CONTRACTOR MAY SPICE CONTINUOUS SLAB OR LONGITUDINAL BEAM BARS AT LOCATIONS OF HIS CHOOSING, EXCEPT THAT TOP BAR SPLICES SHALL BE LOCATED AT MIDSPAN AND BOTTOM BAR SPLICES SHALL BE LOCATED AT SUPPORTS. STAGGER ADJACENT SPLICES PER ACI 318 WITH A MINIMUM OF 2'-0". ALL REINF BENDS AND LAPS UNLESS OTHERWISE NOTED, SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENT:

BAR SIZE	DETAILS OF REINFORCEMENT							
	#8 OR SMALLER BARS		#9 BAR		#10 BAR		#11 BAR	
	BEND	LAP	BEND	LAP	BEND	LAP	BEND	LAP
TOP BAR	28 DIA. MIN 1'-0"	42 DIA. MIN 2'-0"	3'-0"	4'-9"	3'-9"	6'-0"	4'-6"	7'-3"
OTHER BAR	20 DIA. MIN 1'-0"	30 DIA. MIN 1'-6"	2'-0"	3'-3"	2'-9"	4'-3"	3'-3"	5'-3"

- TOP BARS SHALL BE DEFINED AS ANY HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BAR, IN ANY SINGLE POUR. HORIZONTAL WALL BARS ARE CONSIDERED TOP BARS.
- WHERE PLANS REQUIRE ONLY 60 GRADE REINF, DO NO USE THE ABOVE VALUES. REFER TO ACI 318 CHAPTER 12 AND FURNISH CLASS "C" SPLICE WITH THE REDUCTION ALLOWED FOR BAR SPACING OF 6-INCHES.
- CONT PLASTIC WS AS SPEC, SHALL BE INSTALLED IN ALL CJ IN WALLS OF WATER HOLDING BASINS AND CHANNELS, EXCEPT WHERE INDICATED OTHERWISE.
- PROVIDE AND INSTALL GRANULAR MATERIAL AS SPECIFIED UNDER ALL SLABS AND FOOTINGS TO UNDISTURBED EARTH WITH MINIMUM THICKNESS OF 6", UNLESS OTHERWISE NOTED.
- 3/4" CHAMFER OR 1/2" RADIUS ROUND REQUIRED ON ALL EXPOSED VERTICAL AND HORIZONTAL EDGES.



**5 CONTROL STRUCTURE SECTION**

- O.I.D. SHALL BE CONTACTED AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK ON IRRIGATION LINES. COMPLETION OF ALL IRRIGATION PROJECTS MUST BE ACCOMPLISHED BETWEEN OCTOBER 15 AND MARCH 1 OF ANY YEAR. BETWEEN THE TIME OF MARCH 1 AND OCTOBER 15 IRRIGATION LINES WILL BE USED FOR IRRIGATION PURPOSES ONLY AND AS SUCH, UNLESS SPECIAL ARRANGEMENTS ARE MADE WITH THE DISTRICT, CONSTRUCTION WILL NOT BE ALLOWED. FOR ALL CONSTRUCTION WORK INVOLVING PIPELINES USED TO CONVEY STORMWATER, THE CONTRACTOR SHALL COMPLETE ALL SUCH CONSTRUCTION WORK IN A TIMELY AND DILIGENT MANNER WITHOUT RESTRICTING THE NORMAL FLOW OF WATER WITHIN THE LINE.
- USED MATERIALS, REJECTS, MISFITS OR SECONDS, ETC., ARE NOT ACCEPTABLE FOR USE ON DISTRICT FACILITIES.
- ALL IRRIGATION BOXES SHALL BE FORMED INSIDE AND OUT WITH SUFFICIENT SNAP TIES, WHALERS, STRONGBACKS, KICKERS, ETC., TO PRODUCE UNIFORM AND PLUMB WALL. PORTLAND CEMENT CONCRETE SHALL BE CLASS "A" CONCRETE HAVING NO LESS THAN 564 POUNDS OF PORTLAND CEMENT PER CUBIC YARD. THE CONCRETE SHALL BE VIBRATED SUFFICIENTLY TO PROVIDE FOR SMOOTH SURFACED WALLS WITHOUT VOIDS AND HONEYCOMBS. ALL FORMS WITH EXPOSED SURFACES SHALL BE CONSTRUCTED WITH TRIANGULAR FILLETS NO LESS THAN 3/4" BY 3/4" ATTACHED SO AS TO PREVENT MORTAR RUNS AND TO PRODUCE SMOOTH STRAIGHT CHAMFERS AT ALL SHARP EDGES OF THE CONCRETE.
- SIX INCH PLASTIC WATERSTOP, CENTER BULB TYPE, AS SHOWN ON DRAWINGS, EXTRUDED FROM AN ELASTOMERIC PLASTIC COMPOUND IS REQUIRED FOR ALL CONCRETE JOINTS IN STRUCTURES.
- O.I.D. SHALL INSPECT ALL WORK PHASES ON IRRIGATION FACILITIES FOR CONFORMANCE TO DISTRICT SPECIFICATIONS. REINFORCING SHALL NOT BE ENCASED IN CONCRETE WITHOUT PRIOR DISTRICT INSPECTION. LIKEWISE, CONCRETE SHALL NOT BE COVERED WITH EARTH PRIOR TO DISTRICT INSPECTION.
- O.I.D. SHALL BE PROVIDED WITH NAME, ADDRESS, AND PHONE NUMBER OF CONTRACTORS, SUB-CONTRACTORS, ETC., RESPONSIBLE FOR WORK BEING PERFORMED ON DISTRICT FACILITIES. ALSO, PROVIDE NAME AND NUMBER OF CONTACT PERSON RESPONSIBLE OF OVERSEEING ALL PHASES OF CONSTRUCTION.
- THE CONTRACTOR HEREBY AGREES TO MAKE, AT HIS OWN EXPENSE, ALL REPAIR OR REPLACEMENTS NECESSITATED BY DEFECTS IN MATERIALS OR WORKMANSHIP, SUPPLIED FOR DISTRICT FACILITIES, AND PAY FOR ANY DAMAGE TO OTHER WORKS RESULTING FROM SUCH DEFECTS WHICH BECOME EVIDENT WITHIN 1 YEAR AFTER THE DATE OF FINAL ACCEPTANCE OF THE WORK. THE CONTRACTOR FURTHER AGREES TO HOLD THE DISTRICT HARMLESS FROM LIABILITY OF ANY KIND ARISING FROM DAMAGE DUE TO SAID DEFECTS. THE CONTRACTOR SHALL MAKE ALL REPAIRS AND REPLACEMENTS PROMPTLY UPON WRITTEN ORDER FROM THE DISTRICT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIRS OF ALL PIPELINE CRACKS WHICH DEVELOP DURING CONSTRUCTION OF THE SUBDIVISION.
- THE CONTRACTOR SHALL NOT LEAVE DISTRICT PIPELINE PROJECTS INCOMPLETE FOR MORE THAN TWO WEEKS. WHEN CONDITIONS REQUIRE, CONTRACTOR SHALL PROVIDE A TEMPORARY DIVERSION DITCH TO PROVIDE FOR IRRIGATION WATER DELIVERY OR STORMWATER REMOVAL.
- REINFORCED CONCRETE PIPE (R.C.P.) 24 INCHES IN DIAMETER, OR LARGER, SHALL BE CENTRIFUGALLY SPUN CLASS A-25 IN ACCORDANCE WITH ASTM DESIGNATION C-361 FOR ALL AREAS OUTSIDE OF TRAFFIC AREAS. PIPE PLACED WITHIN ROAD RIGHT-OF-WAY OR CROSSING PUBLIC ROADWAYS SHALL BE CLASS B-25 IN ACCORDANCE WITH ASTM DESIGNATION C-361.
- CLASS 150 A.C. PIPE OR CLASS 100 P.I.P. P.V.C. PIPE IS REQUIRED FOR O.I.D. PIPELINES LESS THAN 24 INCHES IN DIAMETER. CLASS 125 P.V.C. WILL BE REQUIRED FOR ROAD CROSSINGS.
- A MINIMUM 30 INCH COVER SHALL BE PROVIDED OVER ALL PIPELINES.
- THE TRENCH CAN BE BACK-FILLED WITH NATIVE MATERIAL AND COMPACTED BY FLOODING OR JETTING TO OBTAIN THE DESIRED 90% RELATIVE COMPACTION.
- LOCATOR TAPE TO BE INSTALLED IN TRENCH 12 INCHES ABOVE P.V.C. OR A.C. PIPE. (TAPE WILL BE SUPPLIED BY O.I.D.)
- THE CONTRACTOR SHALL SUBMIT TO O.I.D. 2 COPIES OF THE MANUFACTURER'S DRAWINGS OF:
  - THE REINFORCED CONCRETE PIPE;
  - TURNOUT GATES WITH FRAMES.
- THE CONTRACTOR SHALL SUBMIT TO O.I.D. 2 COPIES OF THE SHOP DRAWINGS FOR:
  - DIMENSIONAL LAYOUT OF THE STRUCTURES;
  - REINFORCEMENT PLACEMENT;
  - STILLING WELL AND VENT PIPE COVERS;
  - GRATES;
  - AND ACCESS LADDER.
- CONTRACTOR SHALL SALVAGE ALL GRATES, COVERS, GATES, AND FRAMES. CONTRACTOR MAY REUSE SALVAGE PARTS IF CONDITION OF SAID PARTS ARE ACCEPTABLE TO DISTRICT ENGINEER. UN-USED SALVAGED PARTS SHALL BE DELIVERED TO DISTRICT PER DISTRICT ENGINEER'S DIRECTION.

**7 GENERAL NOTES**

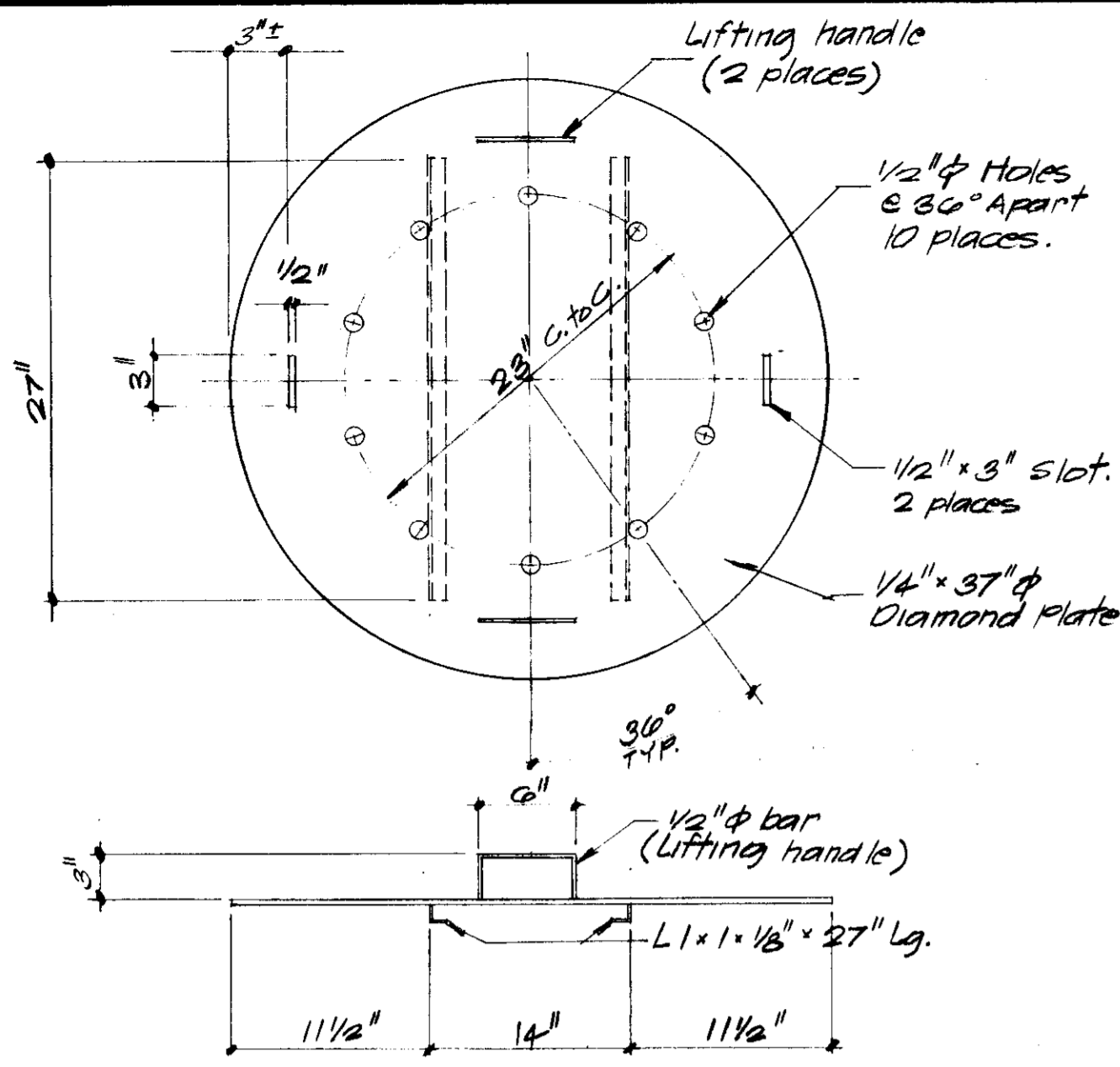
Station	Type	Grate Size			Lateral			Dimensions		Reinforcement				Comments		
		G1	G2	G3	L1	L2	L3	D1	D2	A	B	a	b		c	d
40+42	1	-	-	-	-	-	-	30"	30"	d'	d'	#4e8	#4e8	#4e8	#4e8	No gates req'd., Connect to ex. Huffman Lateral
57+02	3	18"	-	-	-	-	-	30"	30"	d'	d'	#4e8	#4e8	#4e8	#4e8	G1 - Connect 18" PVC Keller pipeline
65+06	2	15"	15"	30"	20'	10'	-	30"	30"	5'	11'	#5e12	#5e12	#5e12	#5e12	G1 & G2 - Connect to exist. head ditch. G3 - connect to exist 30" irrigation line

O.I.D., ITS EMPLOYEES AND AGENTS ARE NOT RESPONSIBLE FOR VERIFICATION OF ELEVATIONS AND DIMENSIONS INDICATED ON THE PLANS NOR ANY ERRORS OR OMISSIONS THAT MAY BE PRESENT. APPROVAL IS SUBJECT TO THE DATA SHOWN WHICH APPEARS TO BE IN CONFORMITY WITH O.I.D. REQUIREMENTS FOR PROTECTION OF DISTRICT FACILITIES.

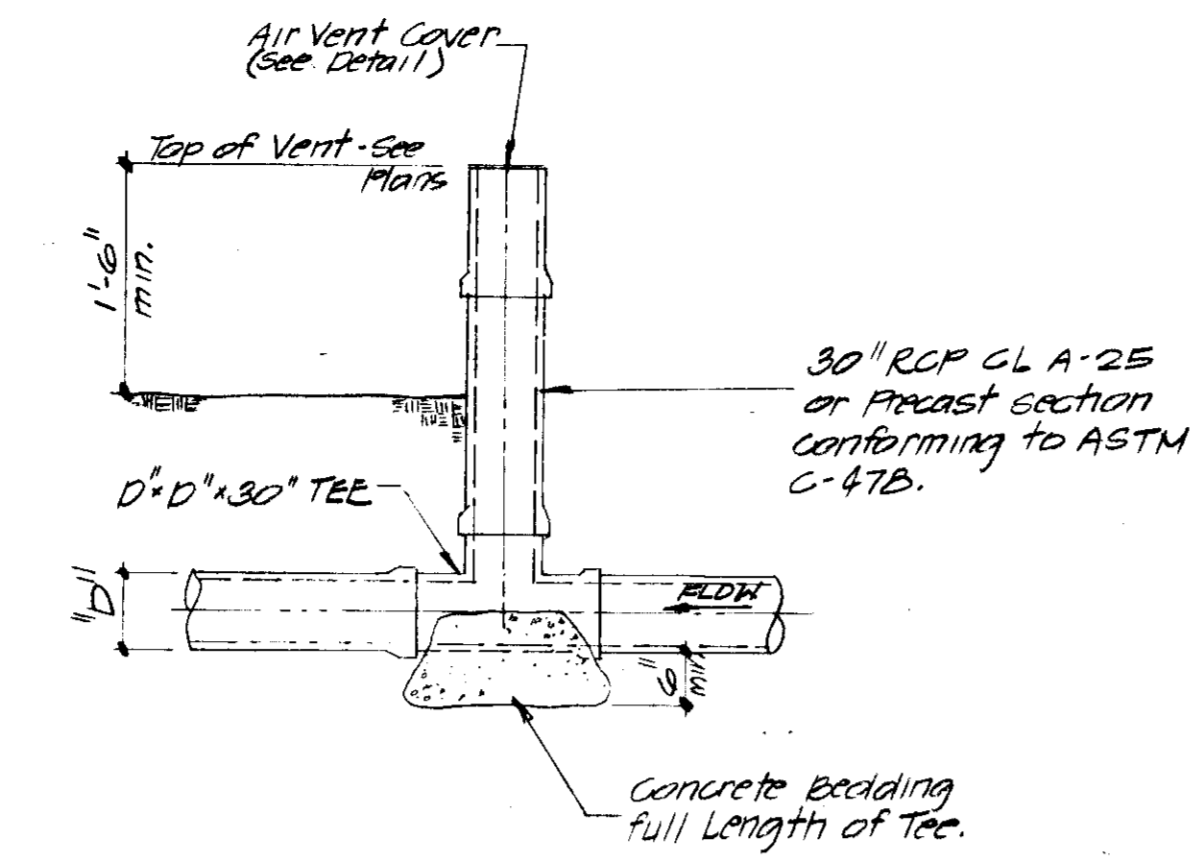
SO CONDITIONALLY APPROVED: *[Signature]* DATE: 7/22/91

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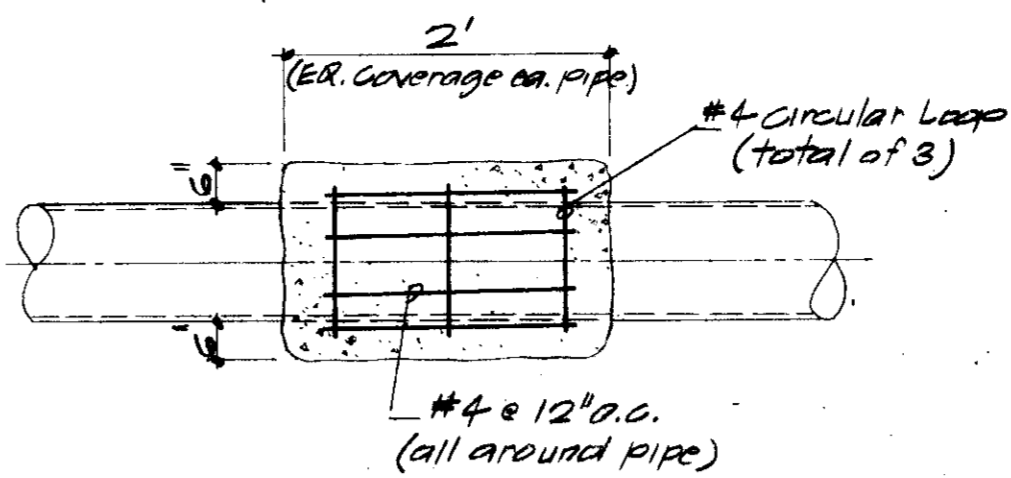
ESCALON RANCH COLONY  
 Escalon, California  
 IRRIGATION  
 DETAILS & NOTES  
 JULY, 1991  
 1086-004.0  
 No Scale  
 E - 1549



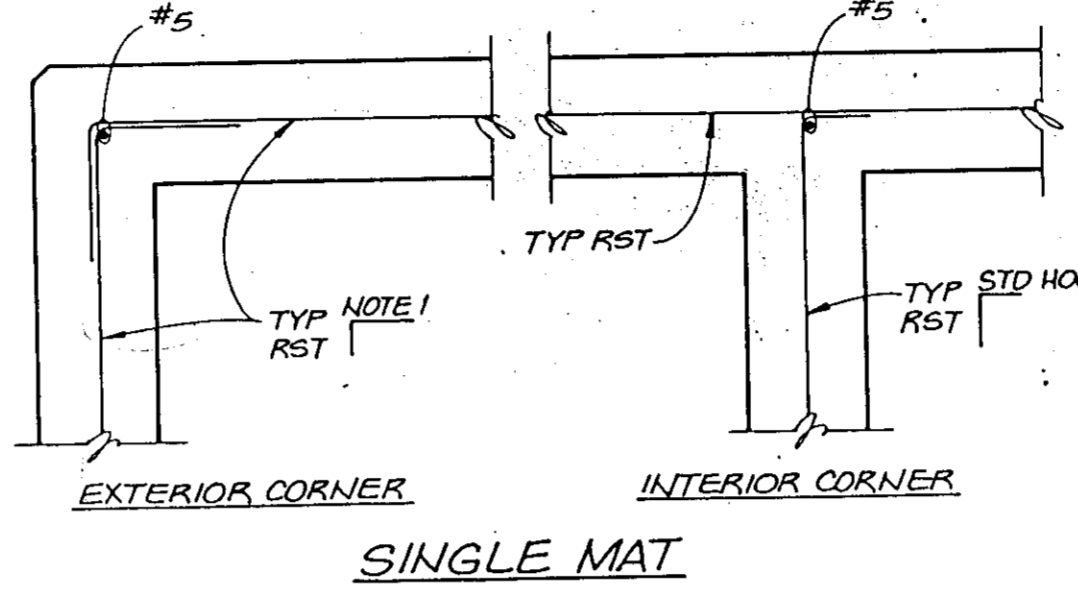
1 VENT PIPE COVER



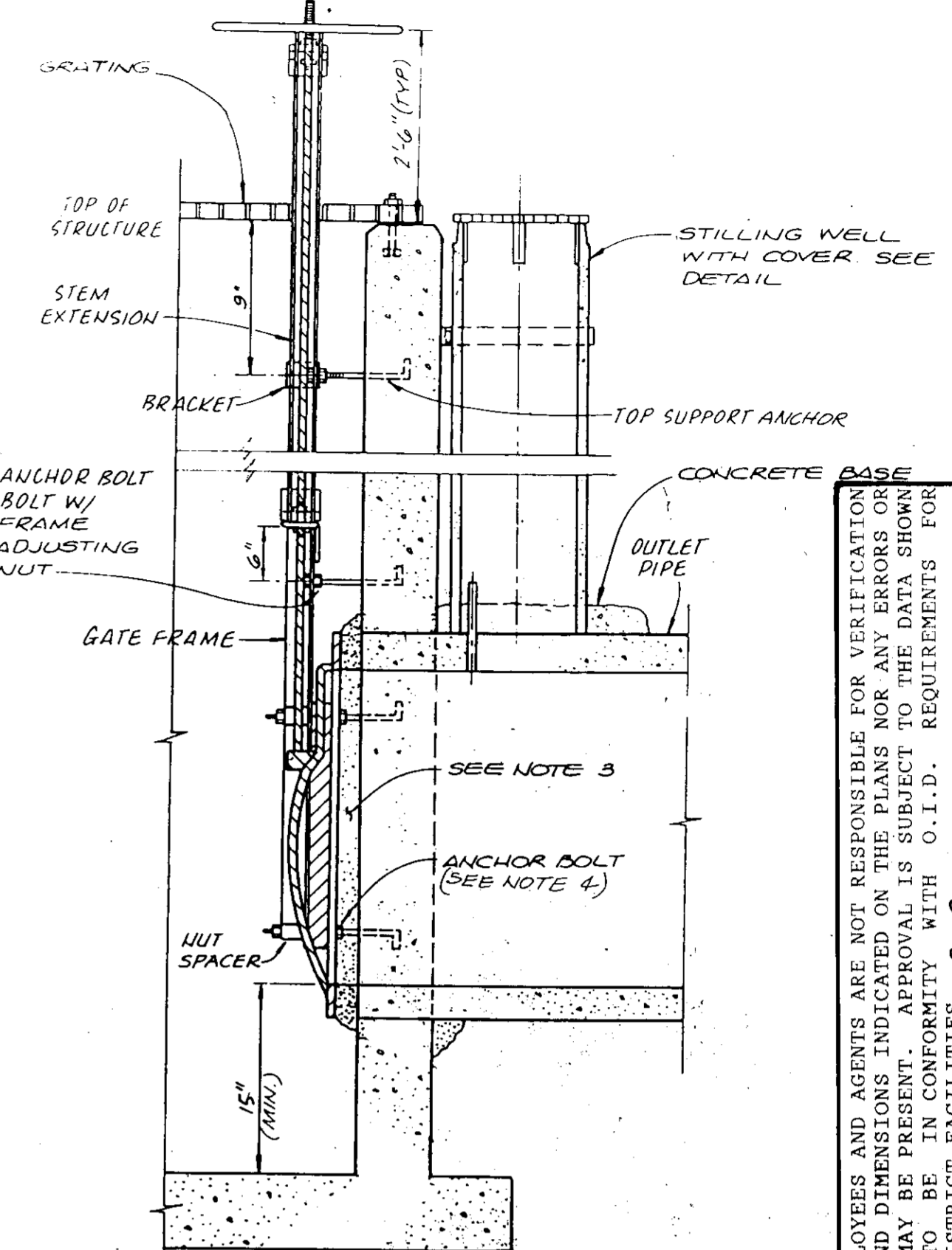
4 VENT PIPE



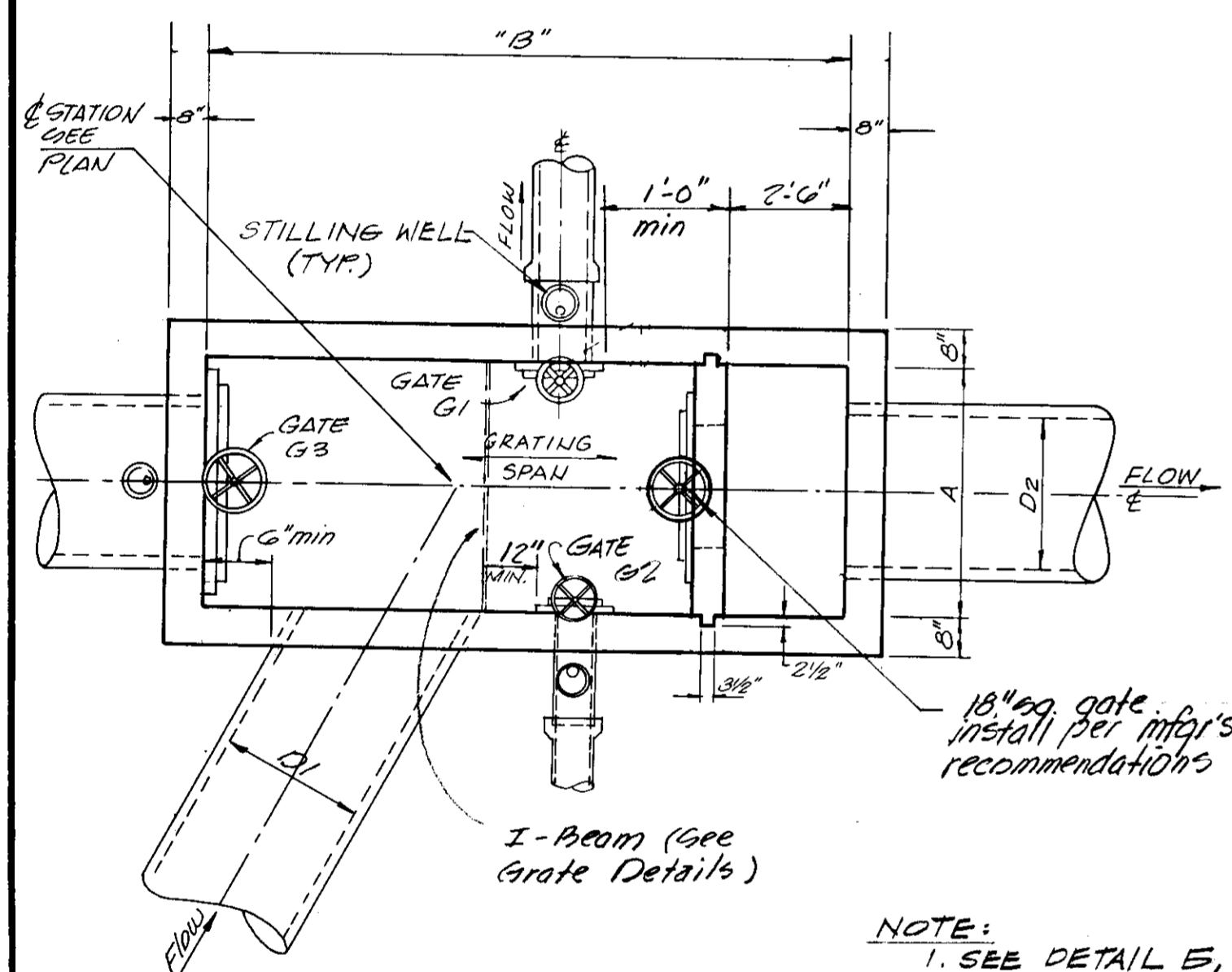
7A CONCRETE COLLAR DETAIL



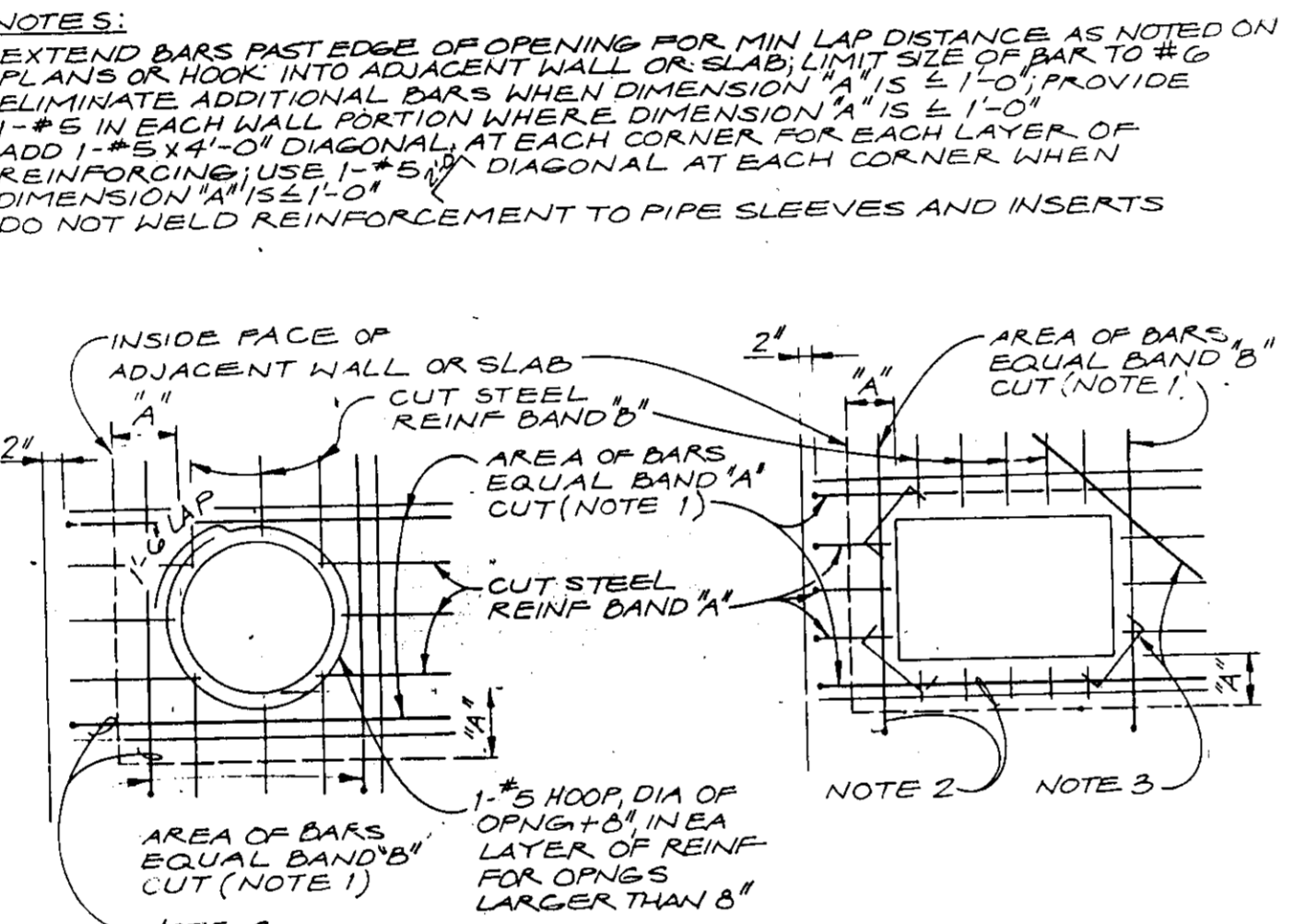
SINGLE MAT



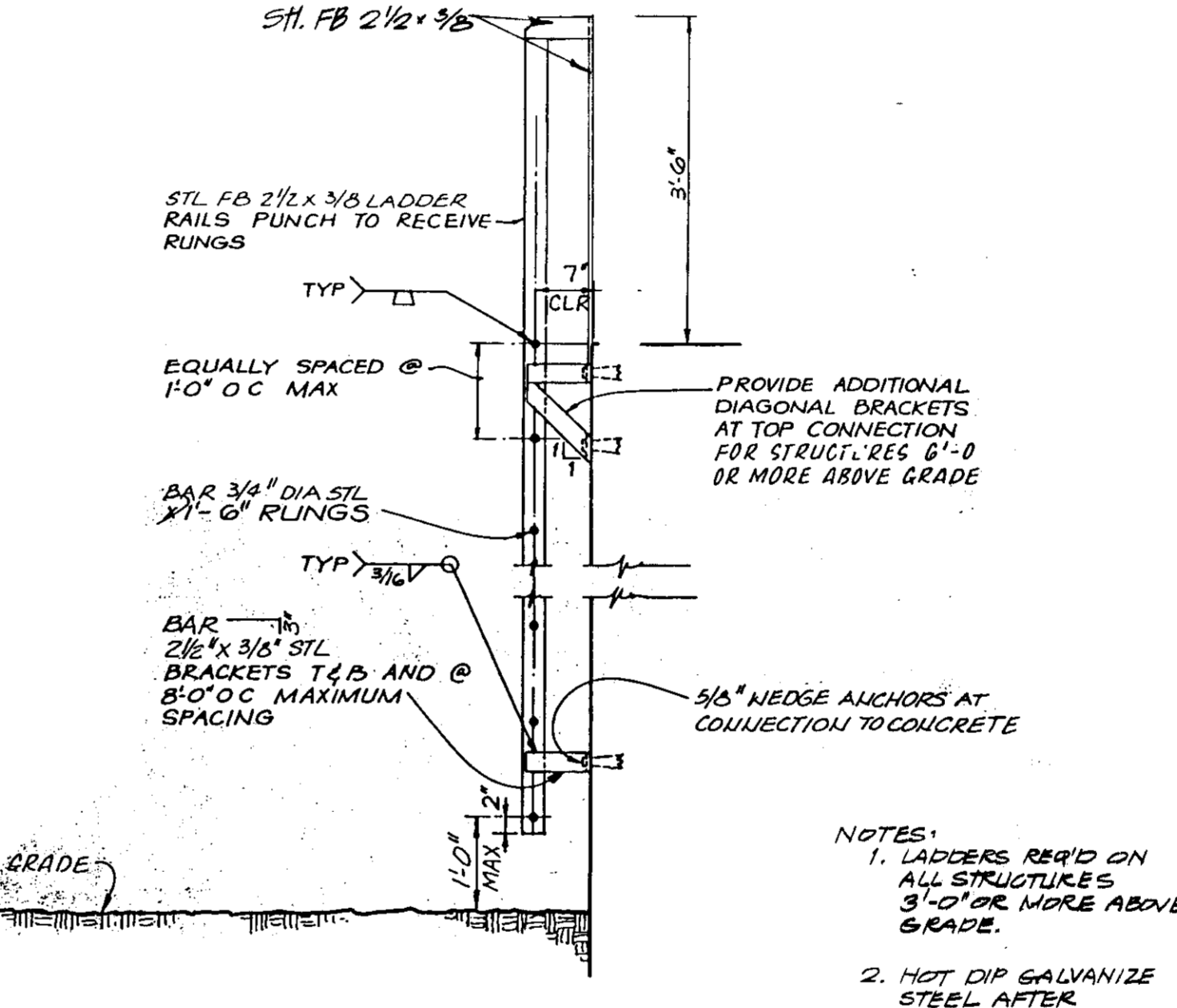
10 GATE INSTALLATION



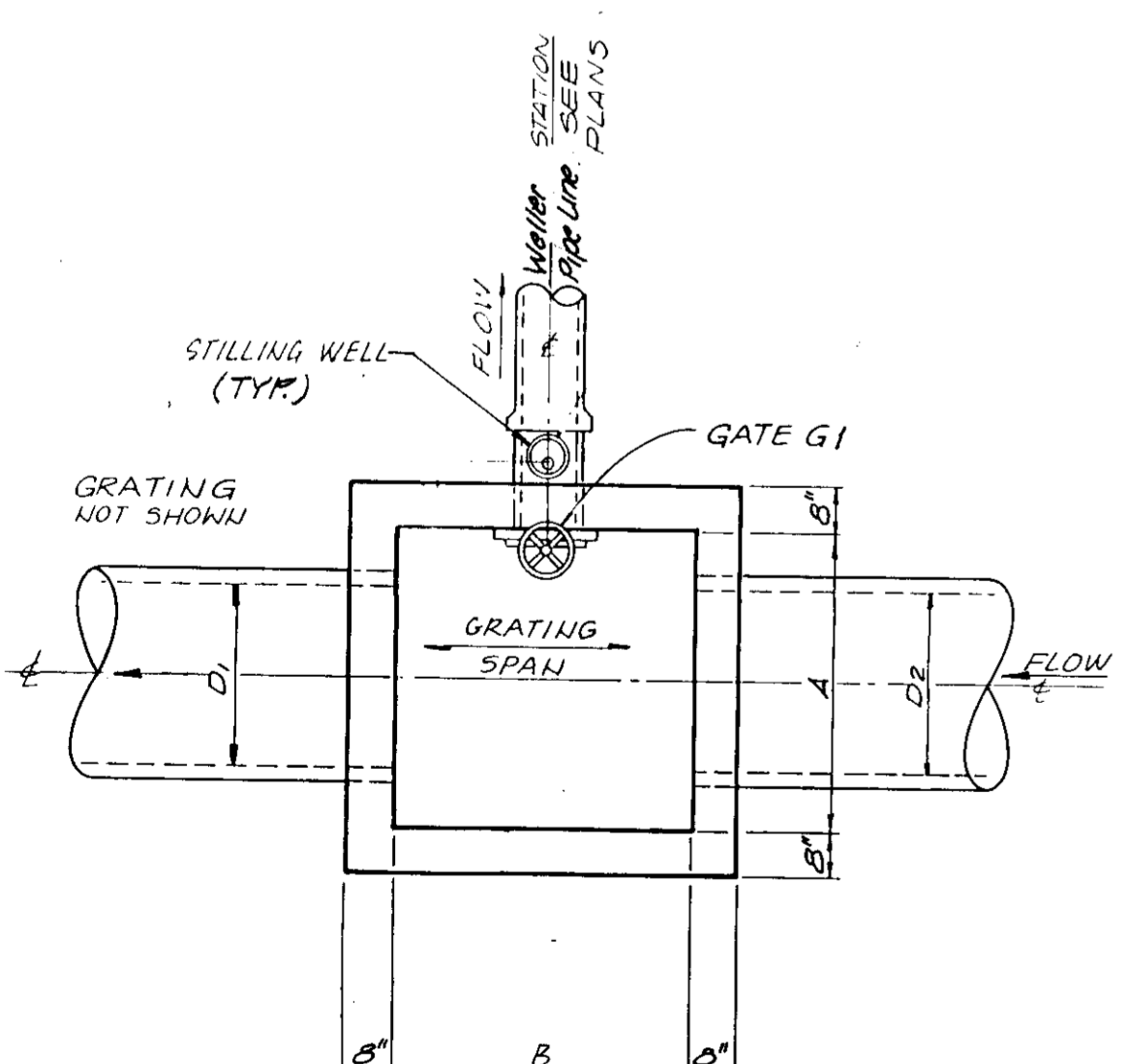
2 CONTROL STRUCTURE - TYPE 2



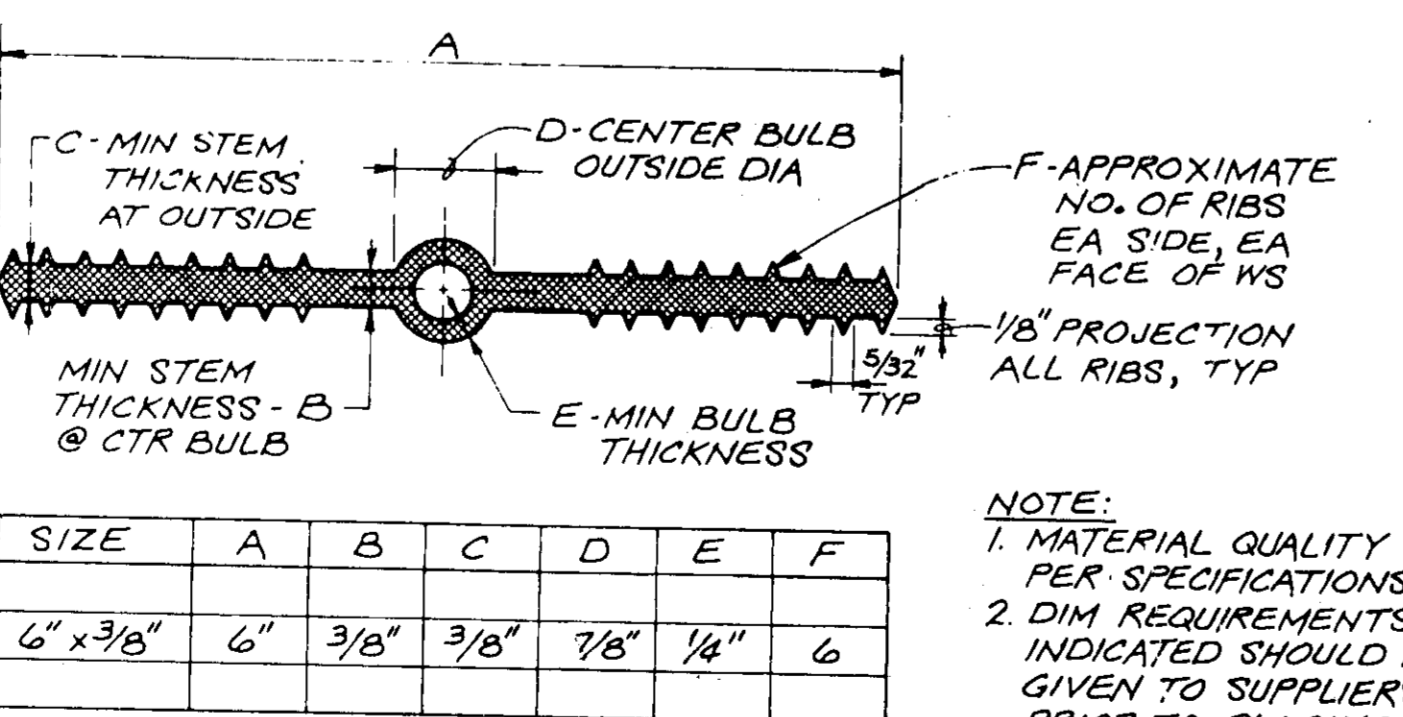
5 OPENING REINFORCEMENT



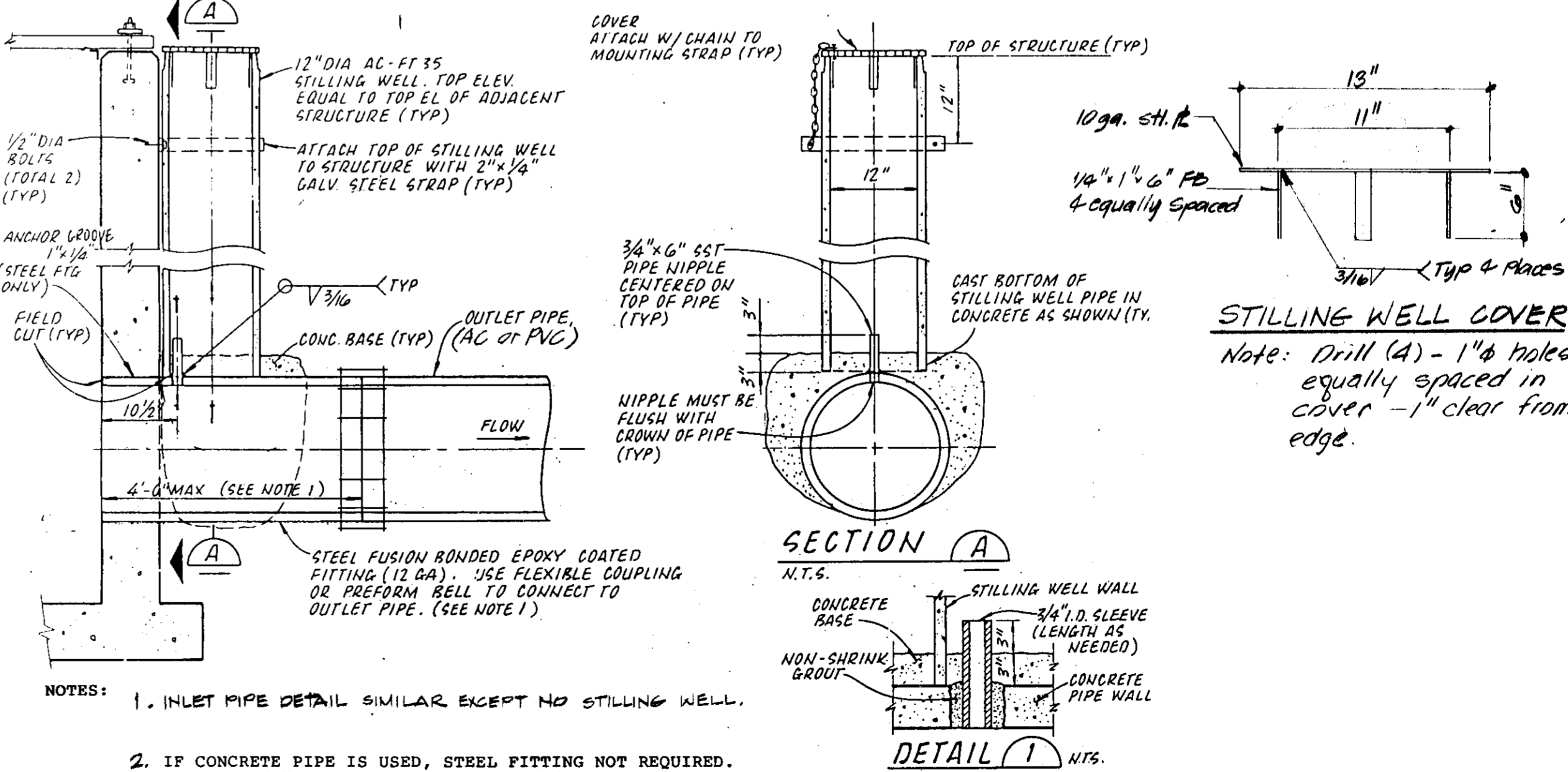
8 LADDER DETAIL



3 TURNOUT STRUCTURE - TYPE 3



6 WATERSTOP DETAIL



9 STILLING WELL

SIZE	A	B	C	D	E	F
6" x 3/8"	6"	3/8"	3/8"	7/8"	1/4"	6"

SU 2485

Design *djb*  
 Drawn *dbg*  
 Check *djb*

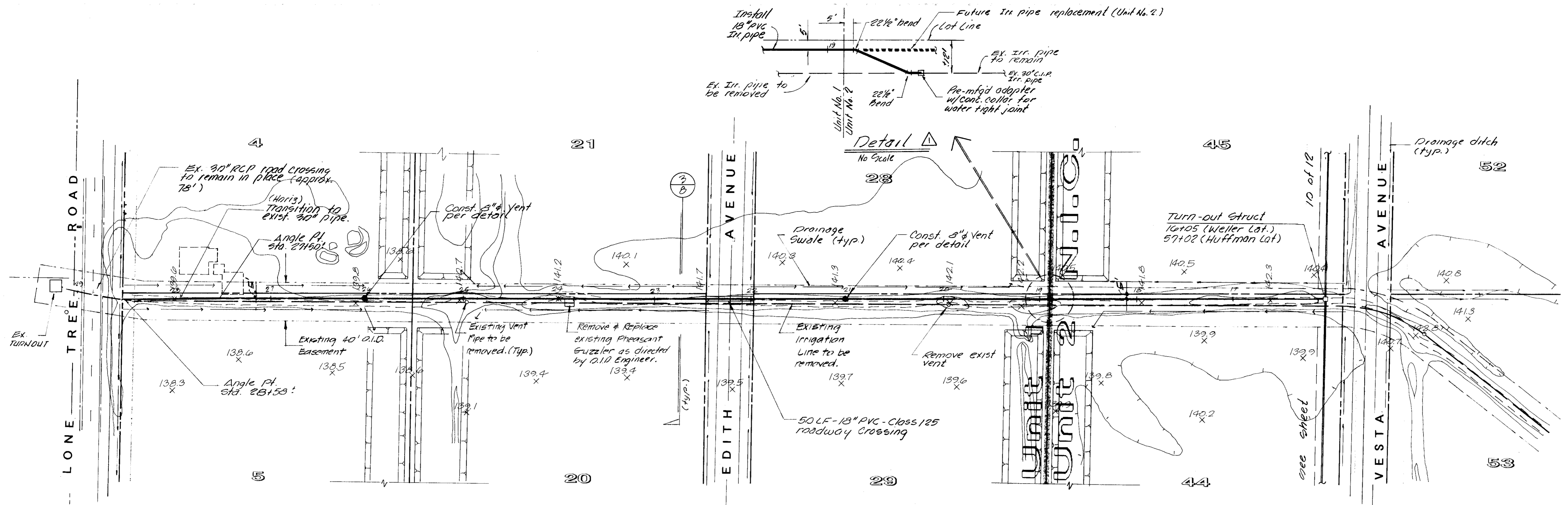
Escalator, California

ESCALON RANCH COLONY IRRIGATION DETAILS

KJELDSEN - SINNOCK & ASSOCIATES, INC.  
 CONSULTING CIVIL ENGINEERS

1111 W. FREMONT STREET  
 STOCKTON, CALIFORNIA 95210  
 (209) 446-0248

Date: JULY, 1991  
 Job Number: 1086-004.D  
 Scale: No Scale  
 Sheet Number: 11 of 12  
 File Number: E - 1549



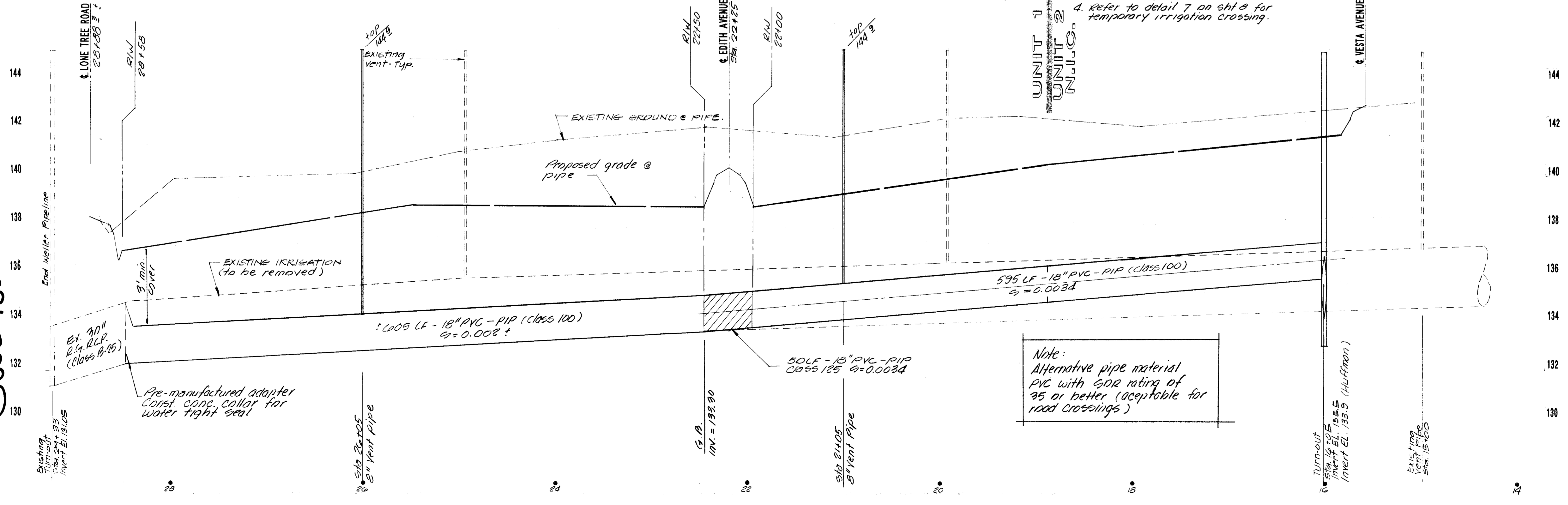
O.I.D., ITS EMPLOYEES AND AGENTS ARE NOT RESPONSIBLE FOR VERIFICATION OF ELEVATIONS AND DIMENSIONS INDICATED ON THE PLANS NOR ANY ERRORS OR OMISSIONS THAT MAY BE PRESENT. APPROVAL IS SUBJECT TO THE DATA SHOWN WHICH APPEARS TO BE IN CONFORMITY WITH O.I.D. REQUIREMENTS FOR PROTECTION OF DISTRICT FACILITIES.

SO CONDITIONALLY APPROVED: *[Signature]* DATE: 7/22/91

REVISION NO.1 APPROVED *[Signature]* 7/22/91

- Note:
1. Refer to General Notes on sht 12 for specifications.
  2. See sht. 11, detail 4 for vent pipe details (similar).
  3. Salvage exist irrigation appurtenances use where possible (see note 17, sht 12).
  4. Refer to detail 7 on sht 8 for temporary irrigation crossing.

SU 2486



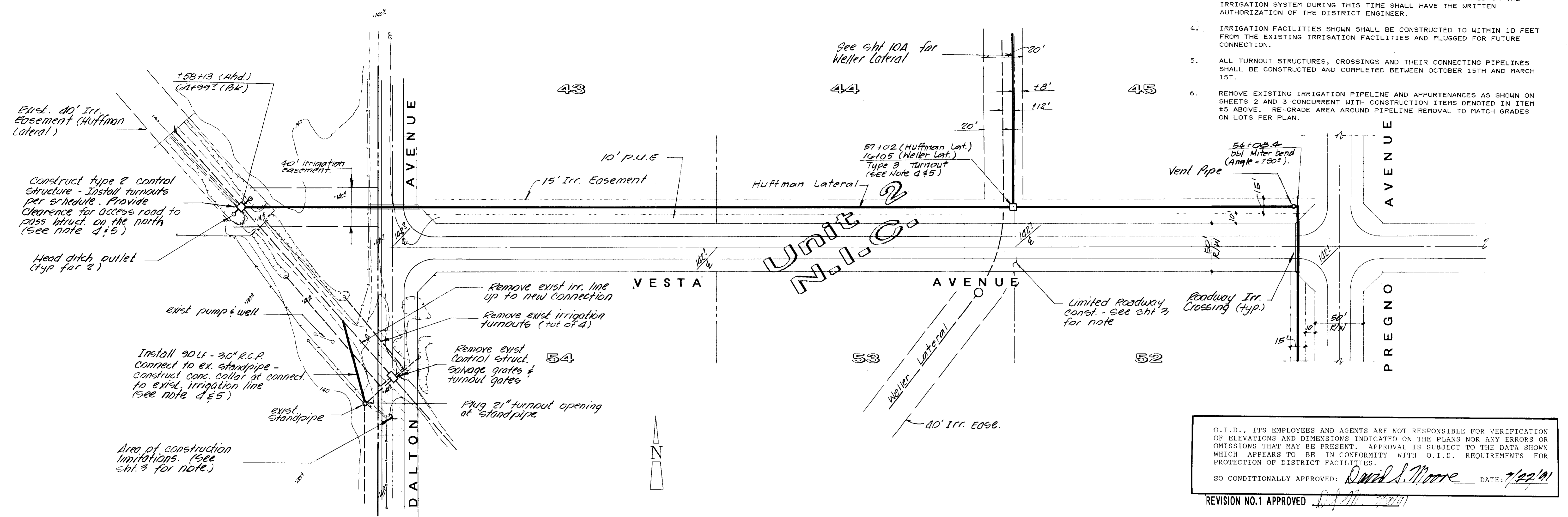
Note:  
Alternative pipe material PVC with SDR rating of 35 or better (acceptable for road crossings)



djb  
dbj/djb  
djb  
7/10/91 db Added Unit Line  
7/15/91  
David Moore

**Notes**

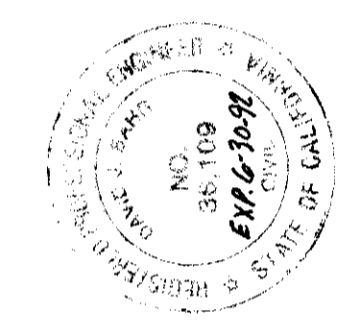
- FOR GENERAL NOTES SEE SHEET 13.
- FOR STREET IMPROVEMENTS AND GRADING INFORMATION REFER TO SHEETS 2 AND 3.
- OAKDALE IRRIGATION DISTRICT'S IRRIGATION SEASON IS FROM MARCH 1ST THROUGH OCTOBER 15TH. NO WORK SHALL BE DONE THAT DISTURBS, INTERFERES OR CONFLICTS WITH THE DELIVERY OF IRRIGATION WATERS DURING THE IRRIGATION SEASON. ANY WORK TO BE PERFORMED ON THE IRRIGATION SYSTEM DURING THIS TIME SHALL HAVE THE WRITTEN AUTHORIZATION OF THE DISTRICT ENGINEER.
- IRRIGATION FACILITIES SHOWN SHALL BE CONSTRUCTED TO WITHIN 10 FEET FROM THE EXISTING IRRIGATION FACILITIES AND PLUGGED FOR FUTURE CONNECTION.
- ALL TURNOUT STRUCTURES, CROSSINGS AND THEIR CONNECTING PIPELINES SHALL BE CONSTRUCTED AND COMPLETED BETWEEN OCTOBER 15TH AND MARCH 1ST.
- REMOVE EXISTING IRRIGATION PIPELINE AND APPURTENANCES AS SHOWN ON SHEETS 2 AND 3 CONCURRENT WITH CONSTRUCTION ITEMS DENOTED IN ITEM #5 ABOVE. RE-GRADE AREA AROUND PIPELINE REMOVAL TO MATCH GRADES ON LOTS PER PLAN.



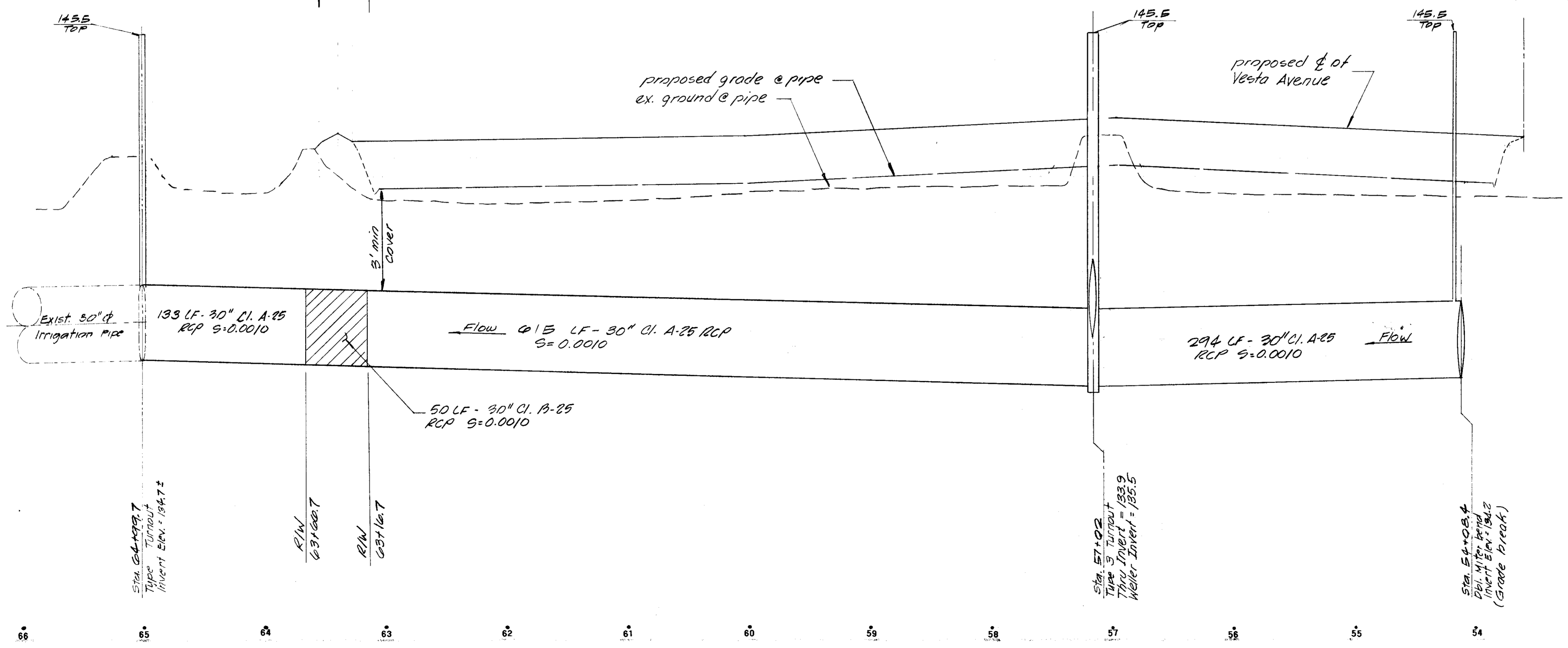
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SO CONDITIONALLY APPROVED: *David S. Moore* DATE: 7/22/91

REVISION NO.1 APPROVED *[Signature]*



Sue 487

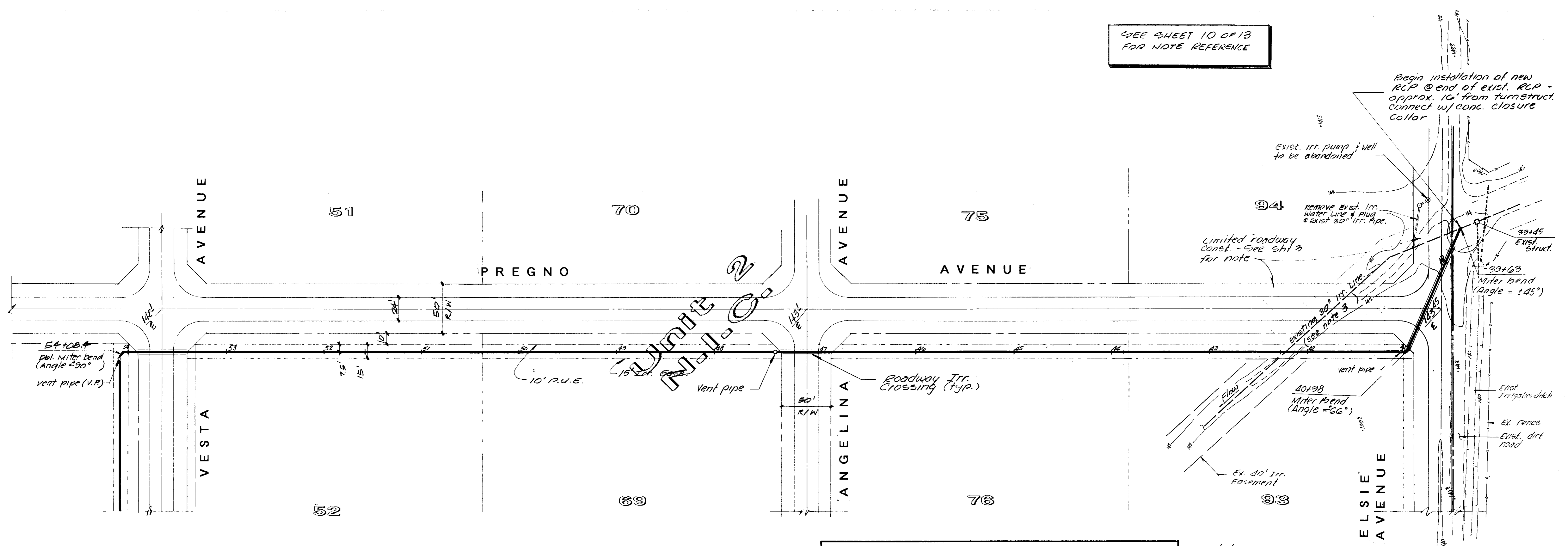


ESCALON RANCH COLONY  
Escalon, California  
IRRIGATION  
PLAN & PROFILE

JULY, 1991  
1086-004.0  
Horiz. 1"=50'  
Vert. 1"=2'  
10  
E-1549

SEE SHEET 10 OF 13 FOR NOTE REFERENCE

djb  
djb

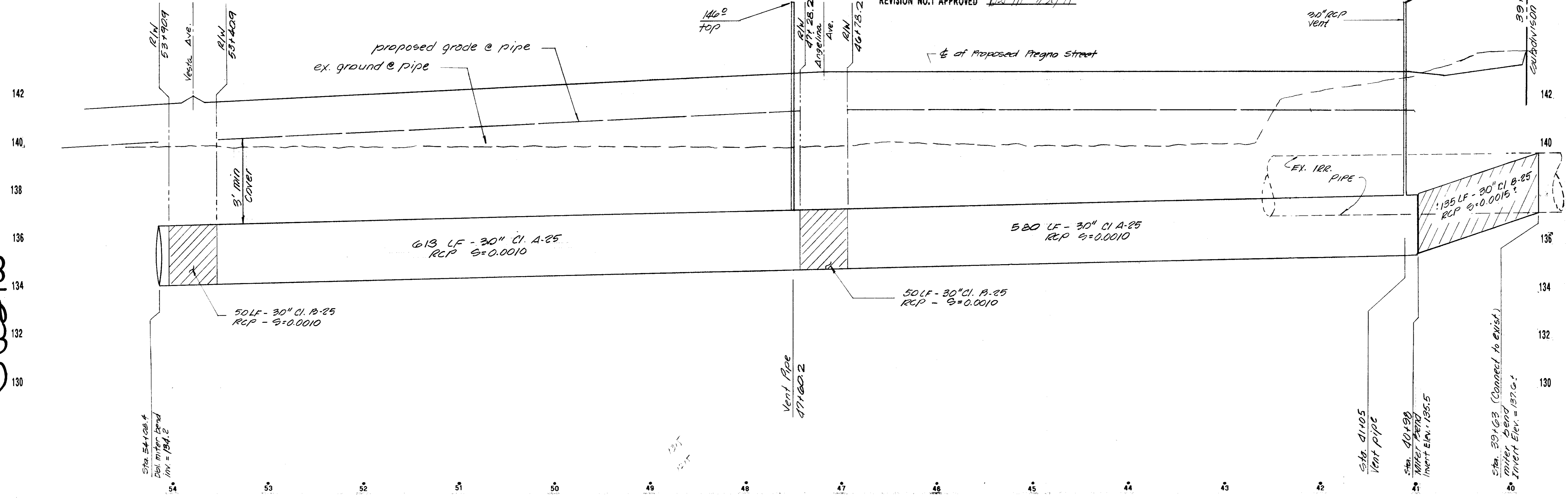


Note:  
Installation of new Irr. pipe from sta. 39+63 to approx. sta. 40+15 is subject to construction limitations. See notes on sht 10.

O.I.D., ITS EMPLOYEES AND AGENTS ARE NOT RESPONSIBLE FOR VERIFICATION OF ELEVATIONS AND DIMENSIONS INDICATED ON THE PLANS NOR ANY ERRORS OR OMISSIONS THAT MAY BE PRESENT. APPROVAL IS SUBJECT TO THE DATA SHOWN WHICH APPEARS TO BE IN CONFORMITY WITH O.I.D. REQUIREMENTS FOR PROTECTION OF DISTRICT FACILITIES.  
SO CONDITIONALLY APPROVED: *[Signature]* DATE: 7/22/91

REVISION NO.1 APPROVED *[Signature]* 7/23/91

SUN 2488



ESCALON RANCH COLONY  
IRRIGATION  
PLAN & PROFILE

JULY, 1991  
1086-004.0  
Horiz. 1"=50'  
Vert. 1"=2'

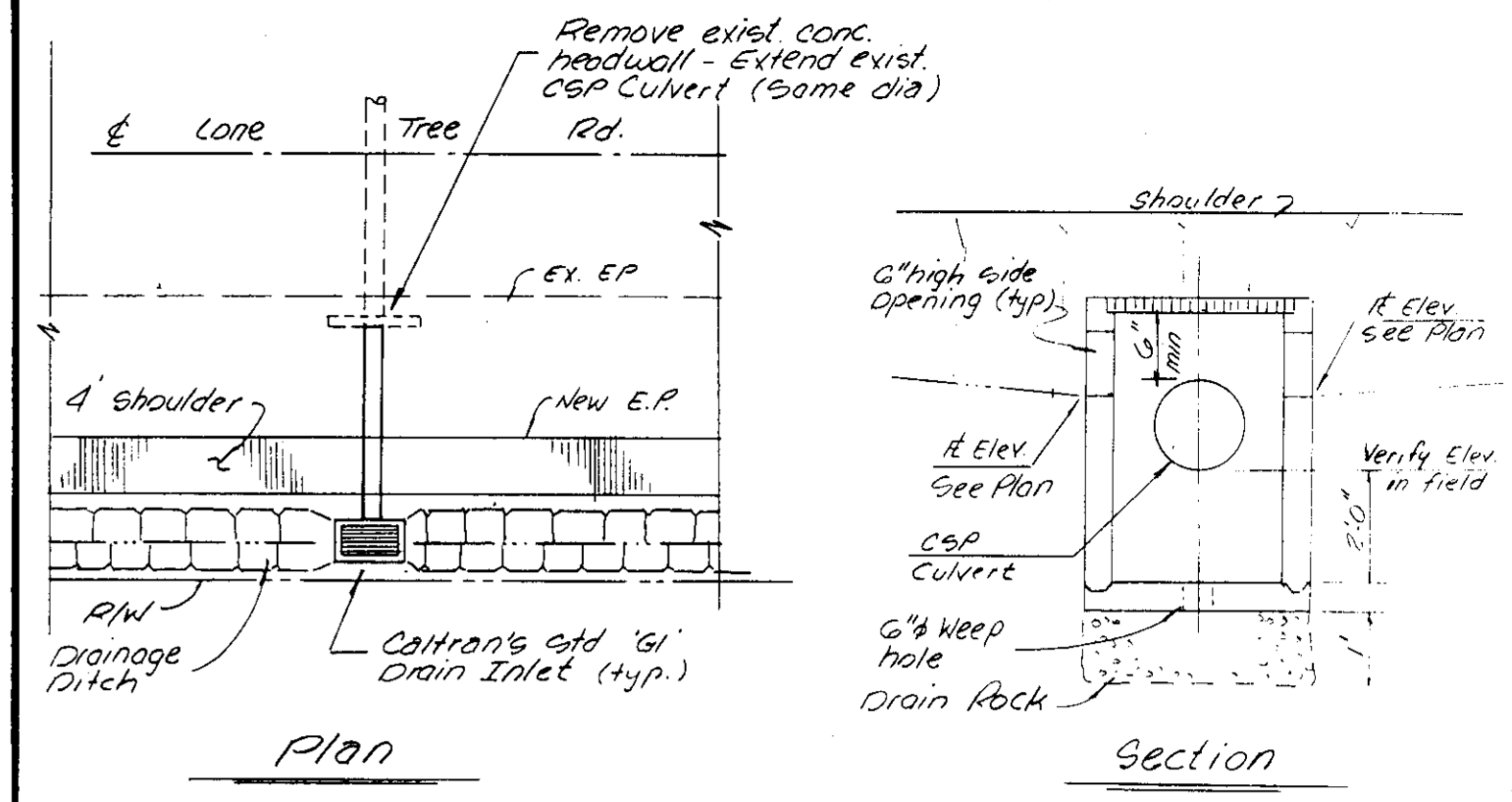
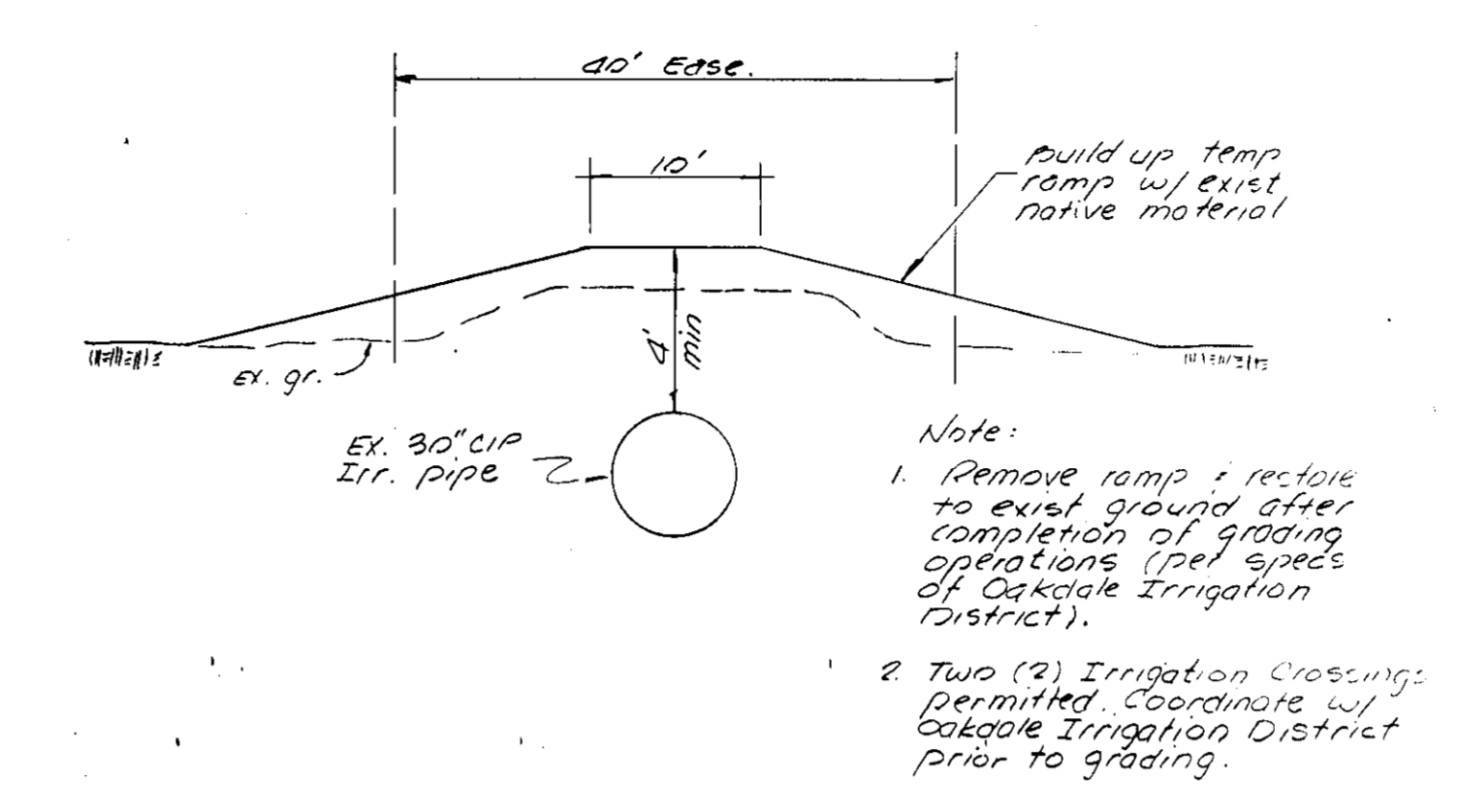
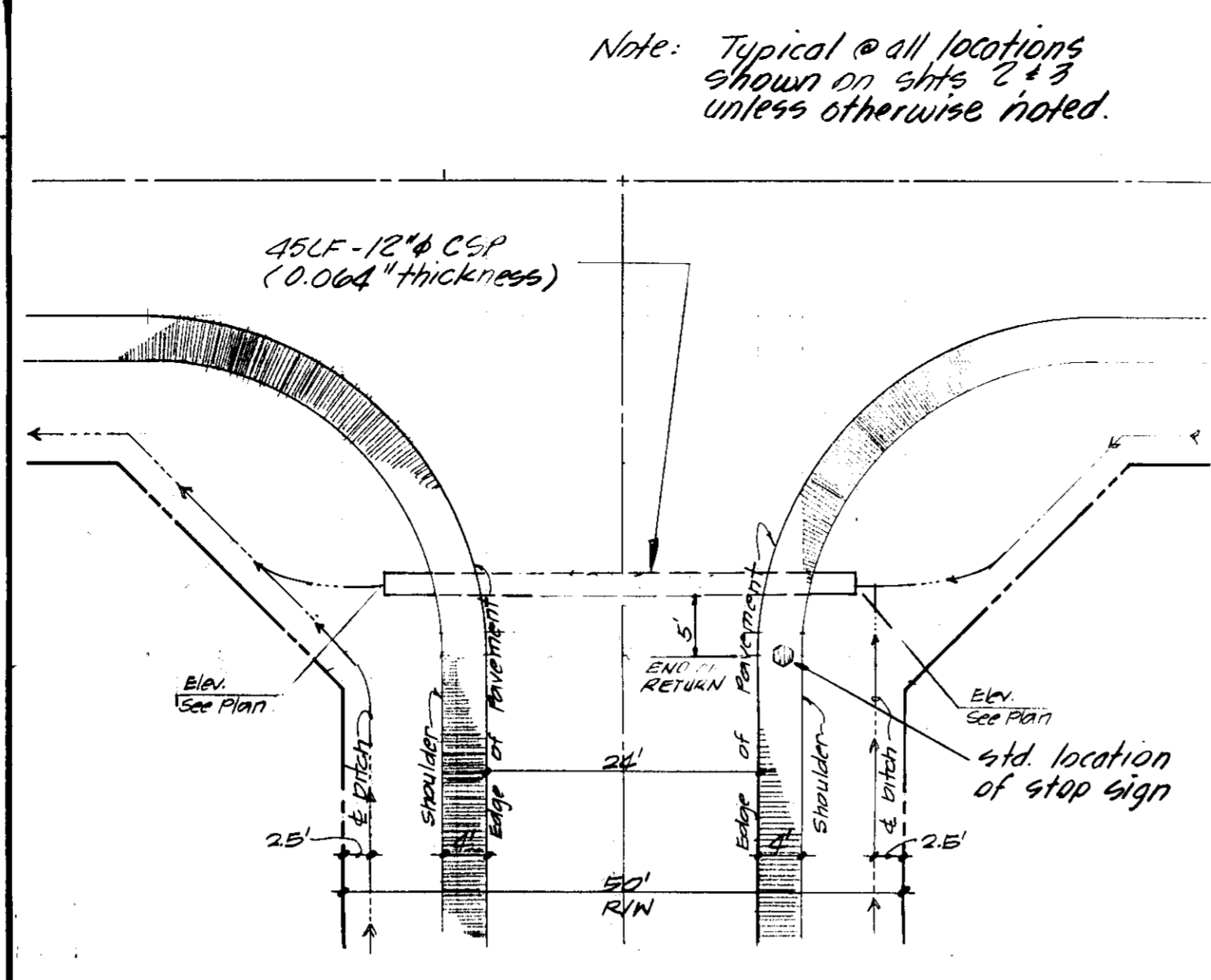
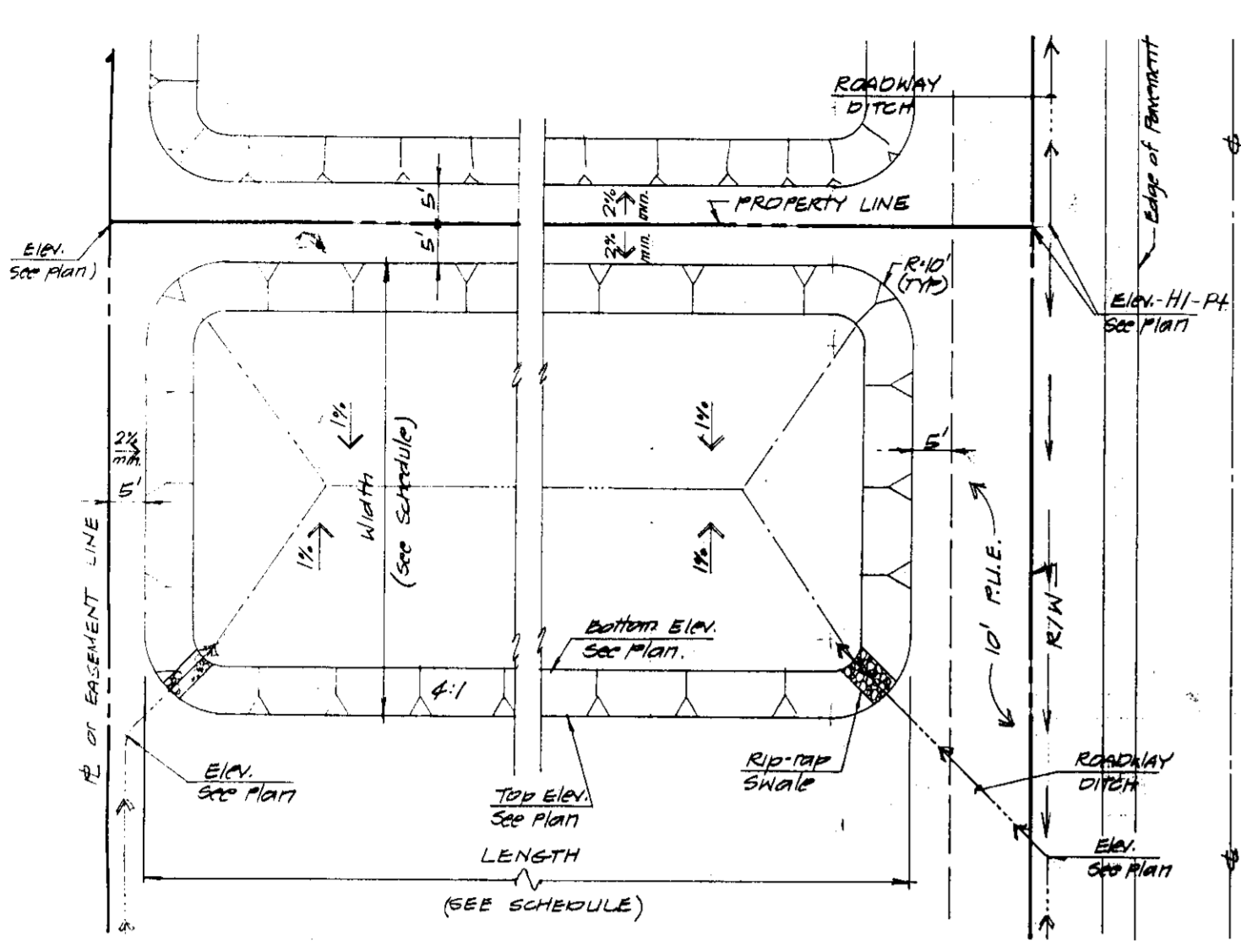
7/21/91  
11/9/91 db Alameda Unit line



dbq  
djb

7/27/91

*[Handwritten signature]*

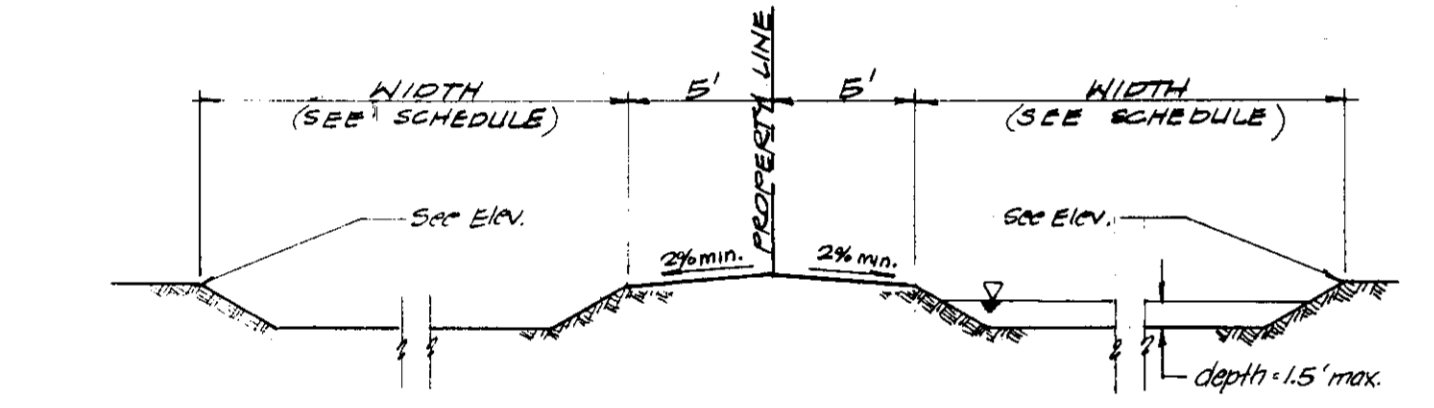


1 TYP. PLAN OF RETENTION BASIN

4 TYP. CULVERT CROSSING

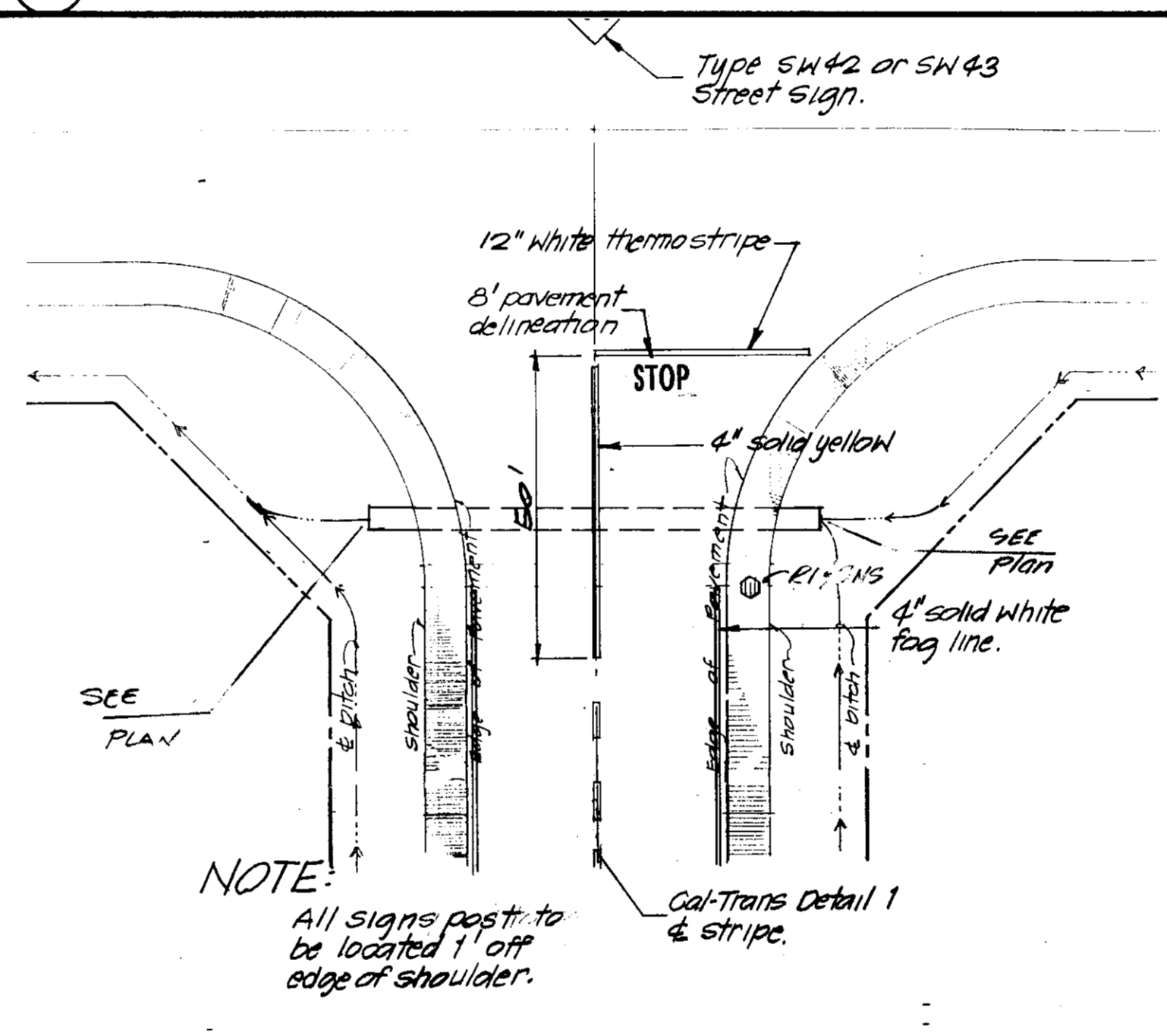
7 TEMPORARY IRRIGATION CROSSING

9 TYPICAL ROADSIDE DRAIN INLET



SCHEDULE OF BASIN SIZE

LOT	LENGTH, FEET	WIDTH, FEET	CAPACITY, CUBIC FEET
1	301	30	10,600
2	321	30	11,400
3	290	30	10,300
4	284	30	10,000
5,20	290	40	14,500
6	277	30	9,800
19	277	65	23,200
21	284	55	20,500
22	292	55	21,000
23,26,47			
50,53,68			
71	321	35	13,700
24	301	55	20,600
25,27,49			
51	291	35	12,400
28	283	35	12,100
29,44	289	40	14,500
30	276	35	11,800
43,54,67	276	50	17,800
45	283	55	20,400
46,48,72	291	55	21,000
52,69	276	45	15,800
70	291	45	16,700
73,75,94,96	290	45	16,600
74,75	320	35	13,700
76	275	45	15,800
77,92	320	40	16,000
78,91,93	275	50	17,800

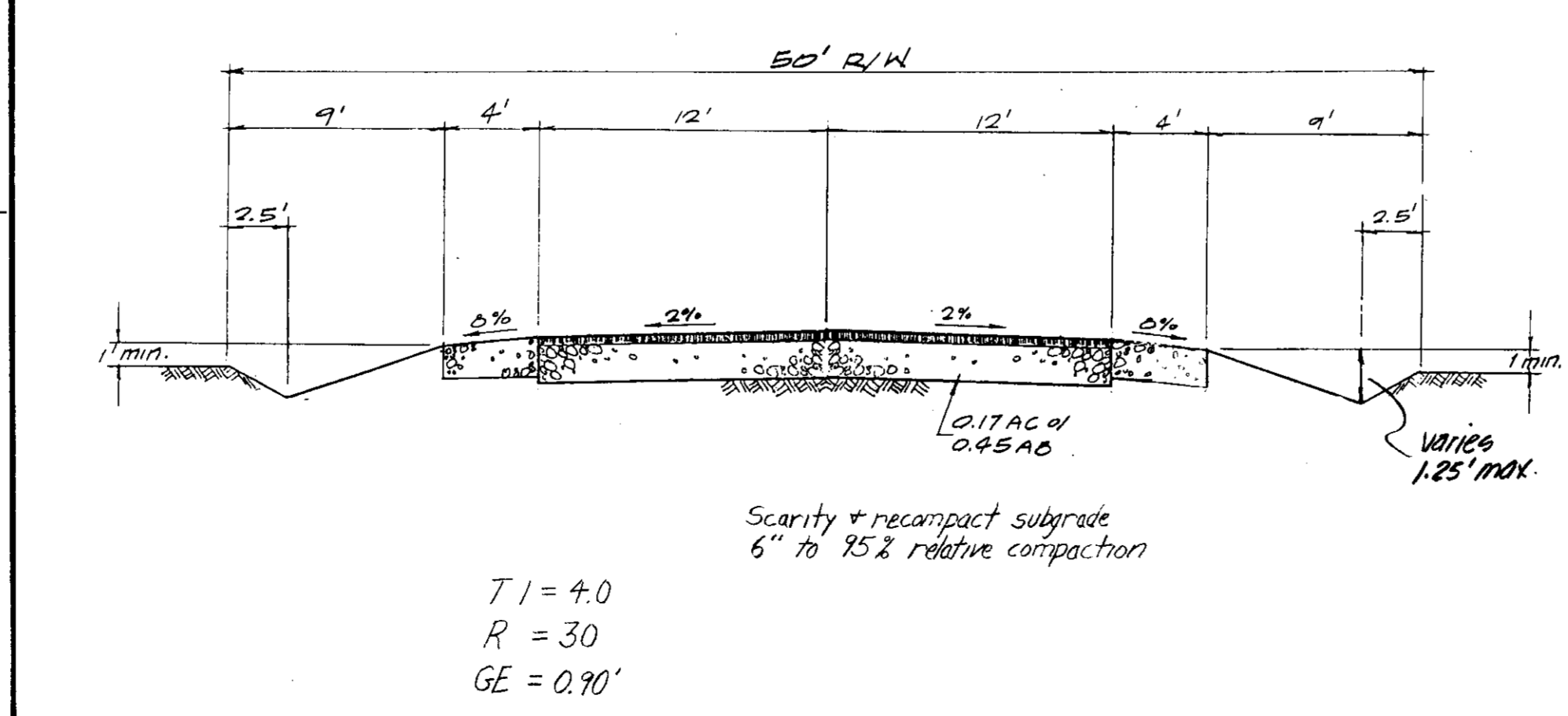
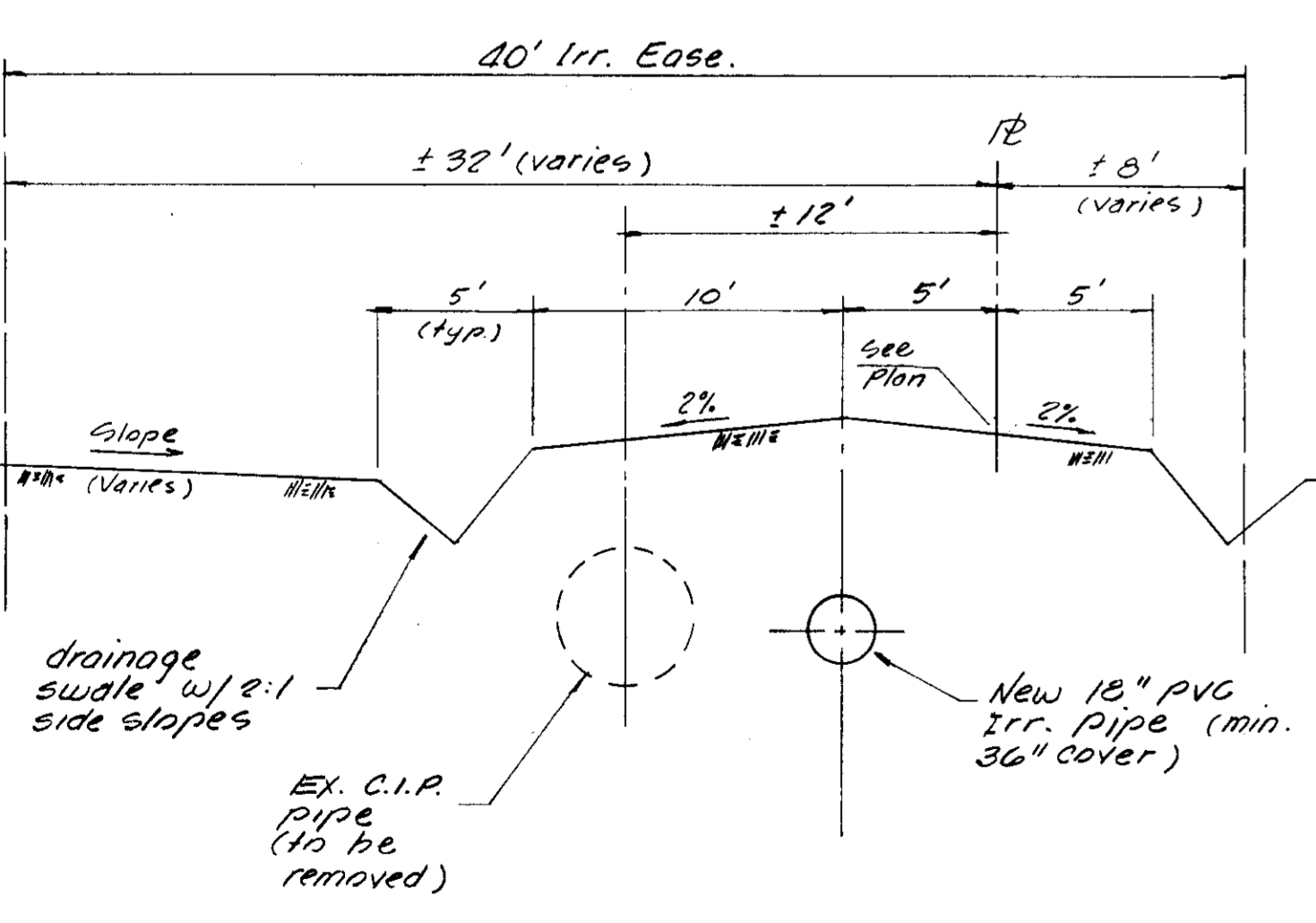


2 TYP. SECTION @ REAR LOT LINE

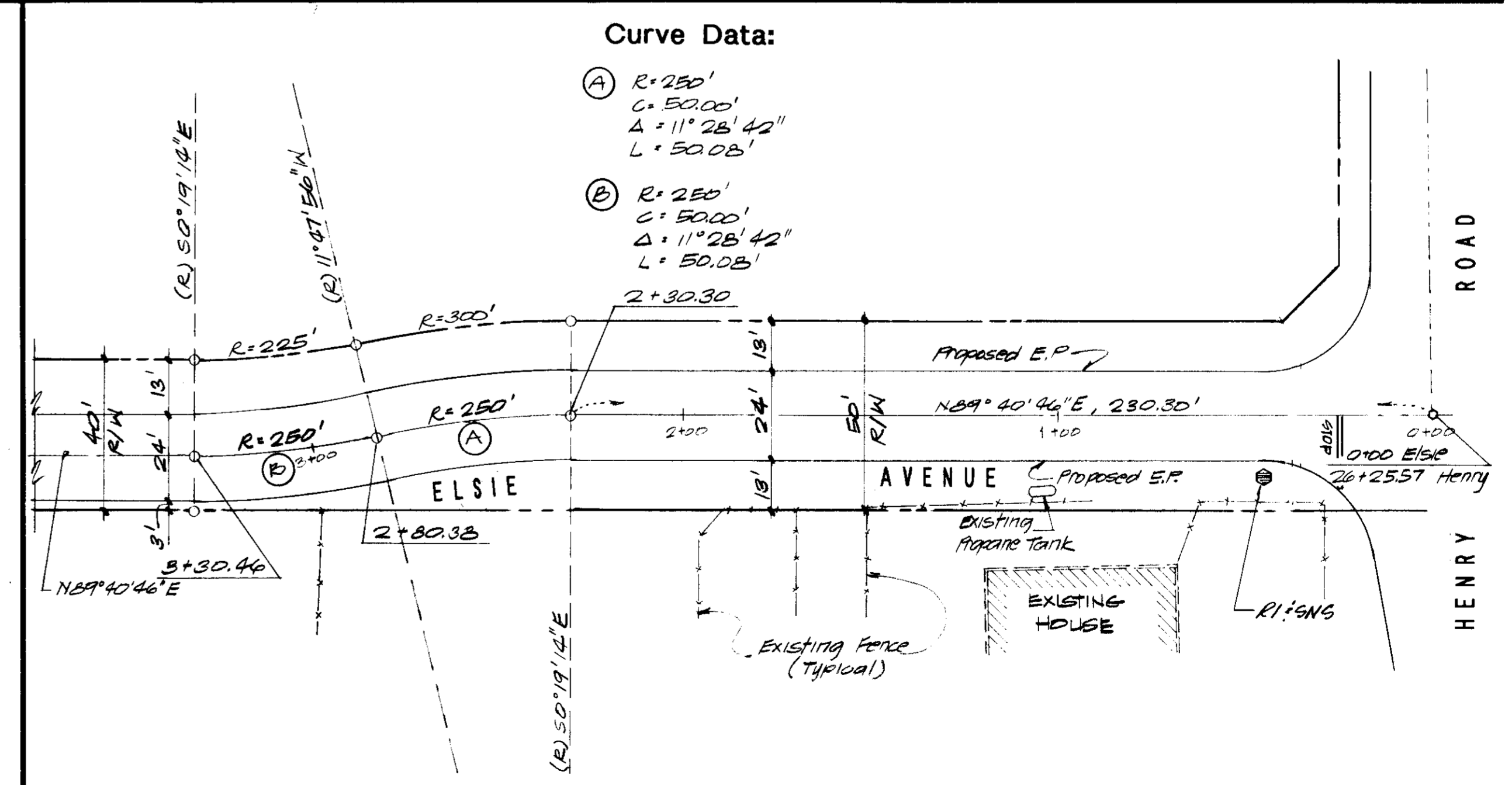
5 BASIN SIZE SCHEDULE

8 TYPICAL INTERSECT PAVEMENT MARKINGS

SU 2489



T = 4.0  
R = 30  
GE = 0.70'



3 TYP. SECTION OF WELLER LATERAL

6 TYP. STREET SECTION

10 ROAD ALIGNMENT AT LOT 96

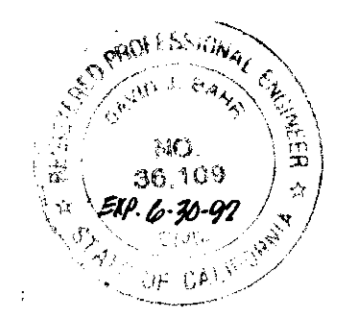
ESCALON RANCH COLONY  
PHASE 1  
DETAIL SHEET

JULY, 1991

No Scale

8 12

E-1549



dbq  
djf

7/27/91  
David J. [Signature]

MUTCD NUMBER NONE CODE SW42

DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	J
MINIMUM	30	1/2	5/8	29	8 11/16	7 13/16	4 11/16	1/2	3 15/16
STANDARD	36	5/8	7/8	34 3/4	8	9 3/8	5 5/8	5/8	4 3/4
SPECIAL	48	3/4	1 1/4	45	10	12 1/2	7 1/2	7/8	6 1/4

COLORS  
BORDER & ARROW - BLACK  
BACKGROUND - YELLOW (REFL)

**RIGID CONDUIT**  
Backfill with materials equal to or better than the existing pavement in quality and thickness. Existing Pavement. Compact in 12" max. layers to a minimum relative composition of 95% under pavement and shoulders, and 90% outside shoulders. Compact in 24" max. layers to a minimum relative composition of 85%. Compact in 6" layers to a minimum relative composition of 90%. O.D. 20" Min.

**FLEXIBLE CONDUIT**  
Backfill with materials equal to or better than the existing pavement in quality and thickness. Existing Pavement. Compact in 12" max. layers to a minimum relative composition of 95% under pavement and shoulders, and 90% outside shoulders. Compact in 24" max. layers to a minimum relative composition of 85%. Compact in 6" layers to a minimum relative composition of 90%. O.D. 20" Min.

NOTES:  
1. Relative composition of materials shall be tested by the State of California, Dept. of Transportation Testing Manual, Test Method No. California 216 or 231.  
2. All existing pavement shall be neatly cut to line prior to trench excavation.  
3. Jetting or ponding will be permitted within the street Right of Way with 3 year bond.  
4. \* When shown by soil composition and compatibility, ninety percent (90%) composition may be used, when approved by the Director of Public Works.

**TYPICAL SECTION**  
Standard Frame and Cover Assembly. 12" Dia. or Sq. 6" Standard Frame and Cover Assembly. A.C. P.C.C. Undisturbed Basement Soil. Survey Monument 3/4" x 30" Iron Pin With Identification Marks.

**SECTION A-A**  
Cover, Lift Holes, Frame, Material - Cast Iron. 6" Diameter. 1/2" Raised Letters. SUR. MONUM.

MUTCD NUMBER NONE CODE SW43

NOTE: Sign may be rotated either left or right.

DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	J
MINIMUM	30	1/2	5/8	29	8 11/16	7 13/16	4 11/16	1/2	3 15/16
STANDARD	36	5/8	7/8	34 3/4	8	9 3/8	5 5/8	5/8	4 3/4
SPECIAL	48	3/4	1 1/4	45	10	12 1/2	7 1/2	7/8	5 1/4

COLORS  
BORDER & ARROW - BLACK  
BACKGROUND - YELLOW (REFL)

**TYPICAL STREET SIGN**  
24", 30", or 36" MAIN ST 100 E

**TYPICAL STREET SIGN INSTALLATION**  
2" ID pipe. 12" Max. Edge of Pavement, Back of Sidewalk or Back of Curb. STREET SIGN POST LOCATION DETAIL.

NOTES:  
1. One street sign is required at each intersection.  
2. Block numbers are to be acquired from the San Joaquin County Department of Planning and Building Inspection.  
3. See improvement plans for location of STOP signs, when required.  
4. The length of the street sign varies due to the length of the street name.

1 DOUBLE ARROW SIGN

2 TYPICAL TRENCH BACKFILL

3 SURVEY MONUMENT ASSEMBLY

4 SINGLE ARROW SIGN

5 STANDARD STREET SIGN

PROPERTY LINE, EDGE OF PAVEMENT, STREET NAME SIGN, FOD LINE, R-VALUE LOCATION, CENTER LINE, DOUBLE ARROW SIGN, LOT DIMENSION, 20' X 20' SNIPE, BUILDING PAD, 73 - LOT NUMBER, DRAINAGE SWALE, CONTOUR LINE, RETENTION BASIN (SEE SCHEDULE FOR SIZE), EXISTING PAVEMENT, CENTER LINE STATIONING.

Subst. Boundary, 40' R/W, 16', 12', 26', 4', 9', 1' min. Scarify & recompact subgrade to 95% relative compaction. TYPICAL SECTION Dalton Road. T1=4.0, R=30, GE=2.90.

40' R/W, 8', 20', 13', 4', 9', 2.5', 2.5'. Scarify & recompact subgrade to 95% relative compaction. TYPICAL SECTION Elsie Avenue. T1=4.0, R=30, GE=0.90.

W17 36" x 36"  
R1 36" x 36"

SWALE, 14', VARIES, 14', VARIES, 2' min., 2% (TYP), SWALE.

6 TYP. SECTION THRU DALTON ROAD

7 TYP. SECTION THRU ELSIE AVENUE

8 STOP AHEAD SIGN 9 STOP SIGN

10 TYPICAL LOT X-SECTION

25' R/W, 16', 4', 4', 5', 2.5', 2.5', 1' min. Scarify & recompact subgrade to 95% relative compaction. TYP. SECTION - HENRY ROAD. D=30, T1=5.0, R=30, GE=1.12.

30' R/W, 20', 11', 4', 6', 2.5', 2.5', 1' min. Scarify & recompact subgrade to 95% relative compaction. TYP. SECTION THRU LONE TREE ROAD. T1=6.0, R=30, GE=1.34.

VARIES, 100' Building Pad, 60', SWALE, 1.5' min., 2% min., 1' max., 4'.

Typical Public Street Light on Private Pole. NOTES: 1. APPLICABLE TO PUBLIC STREET & HIGHWAY LIGHTING... 2. FIXTURE SHALL BE CONNECTED TO GROUND AT JOINT... 3. CONSTRUCTION OF POLES SHALL CONFORM TO STATE OF CALIFORNIA GENERAL ORDER NO. 10... 4. NO INSTALLATION OF EQUIPMENT SHALL BE MADE ON POLE UNLESS SPECIFIC APPROVAL OF P.E. IS OBTAINED... 5. POLE SHALL BE CONSTRUCTED TO WITHSTAND WIND LOADS... 6. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE OF THE QUALITY AND TYPE APPROVED BY THE STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS.

11 TYPICAL LOT DETAIL

12 TYP. SECTION - HENRY ROAD

13 TYP. SECTION THRU LONE TREE ROAD

14 TYPICAL LOT X-SECTION

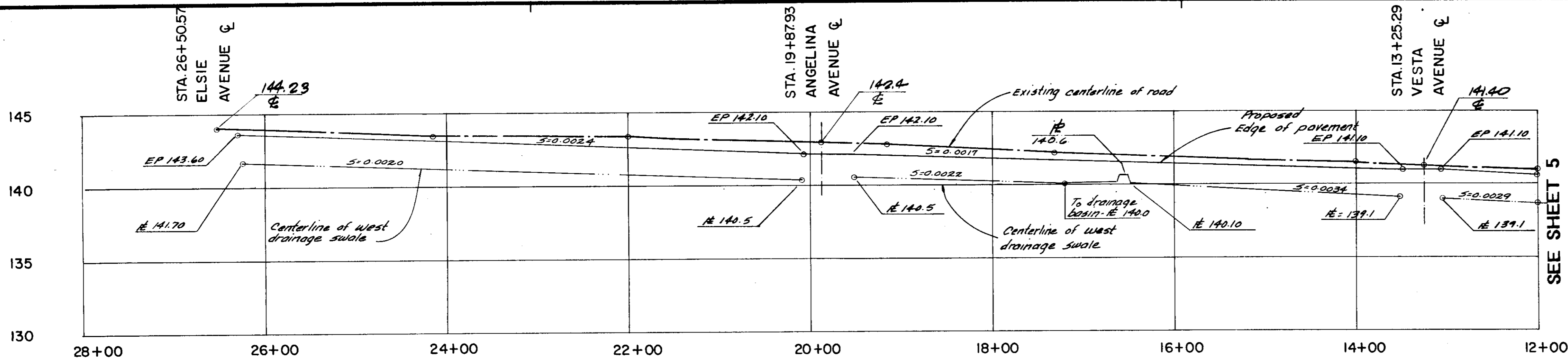
15 TYP. STREET LIGHT (By Others)

SU2490

ESCALON RANCH COLONY

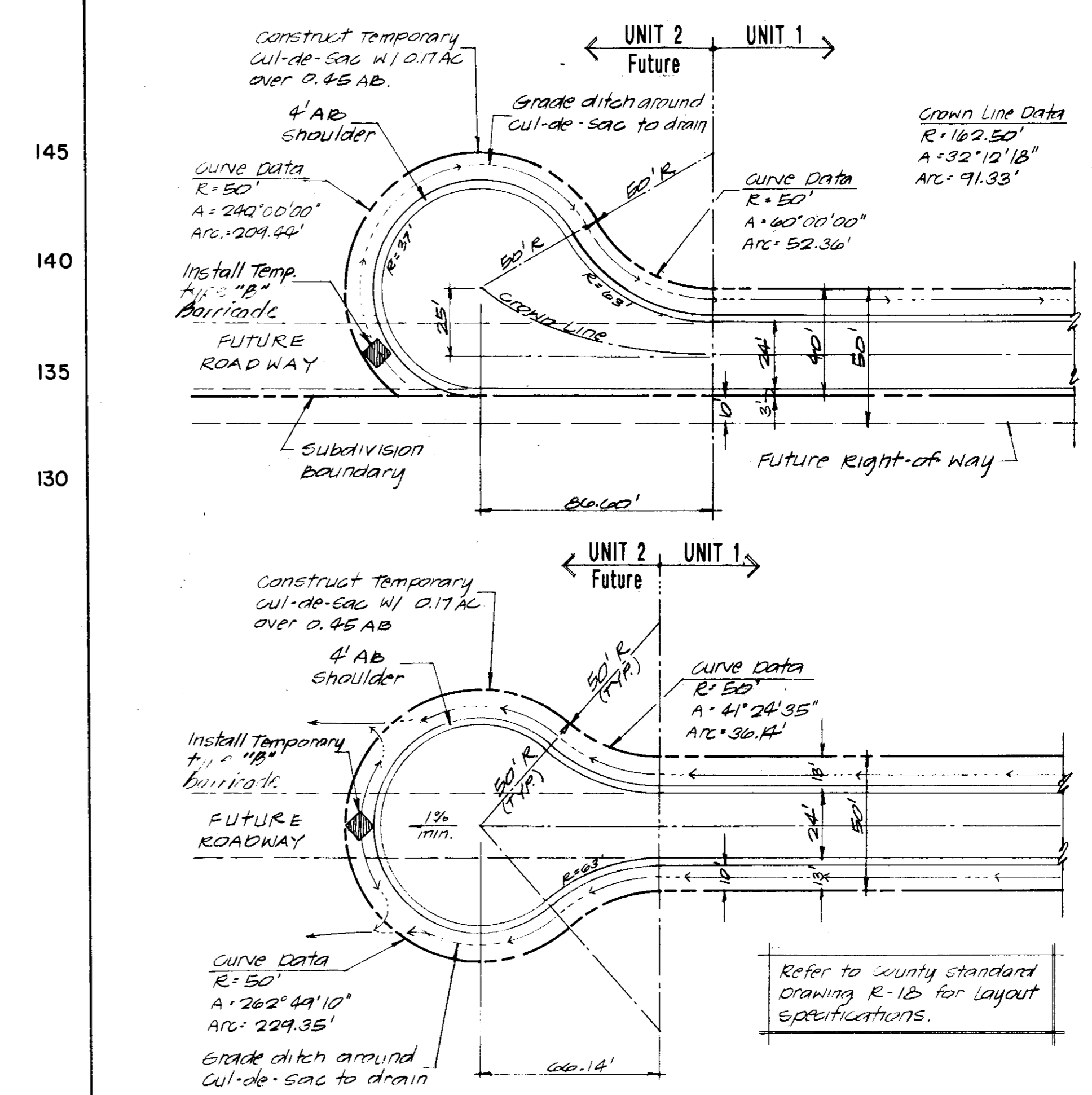
PHASE 1  
DETAIL SHEET

JULY, 1991  
1186-004.0  
No Scale



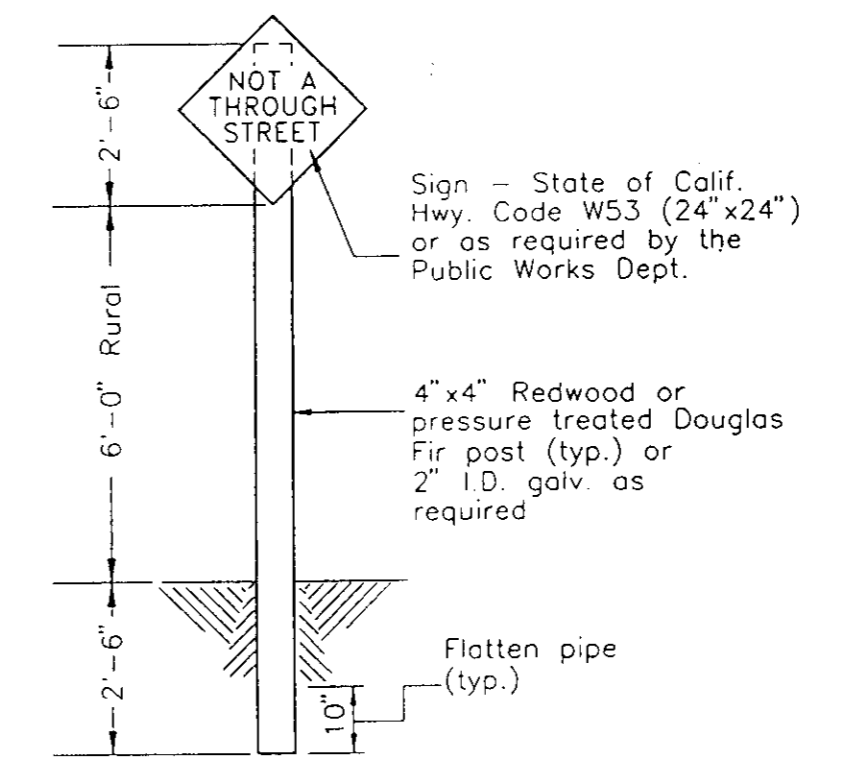
**HENRY ROAD**

SEE SHEET 5

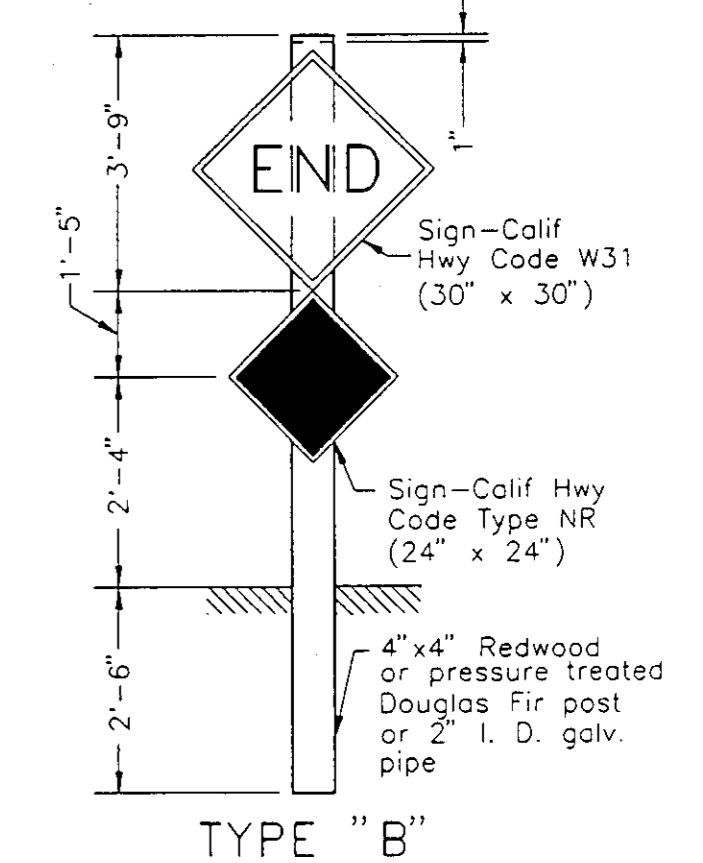


Temporary Cul - De - Sac

No Scale



TRAFFIC SIGN (W53)



TERMINATED STREET BARRICADE

SW 2491

Design RB  
Drawn PB  
Check djb

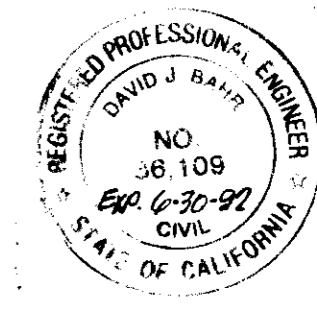
NO.	DATE	BY	DESCRIPTION
1	7/20/91	dj	Temp. Cul-de-Sac

**KJELSDEN - SINNOCK & ASSOCIATES, INC.**  
CONSULTING CIVIL ENGINEERS  
Submitted: [Signature]  
Approved: [Signature]

1113 W. FREMONT STREET  
STOCKTON, CALIFORNIA  
(209) 946-0268

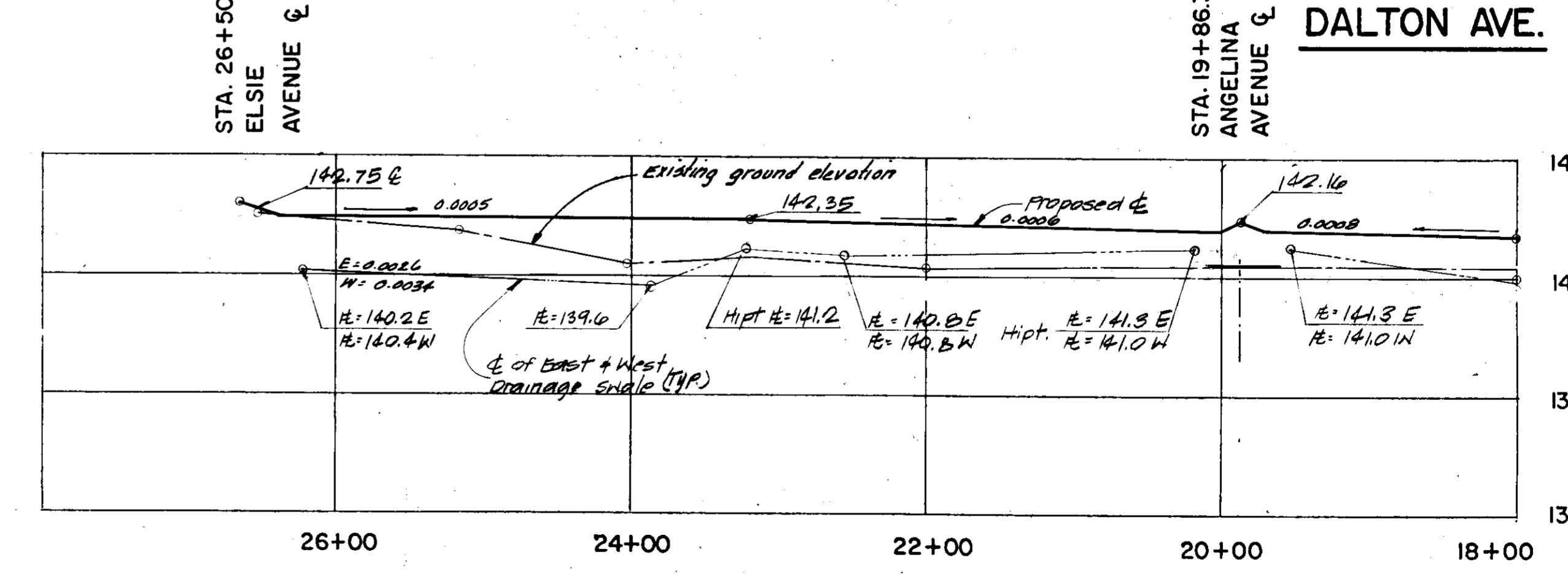
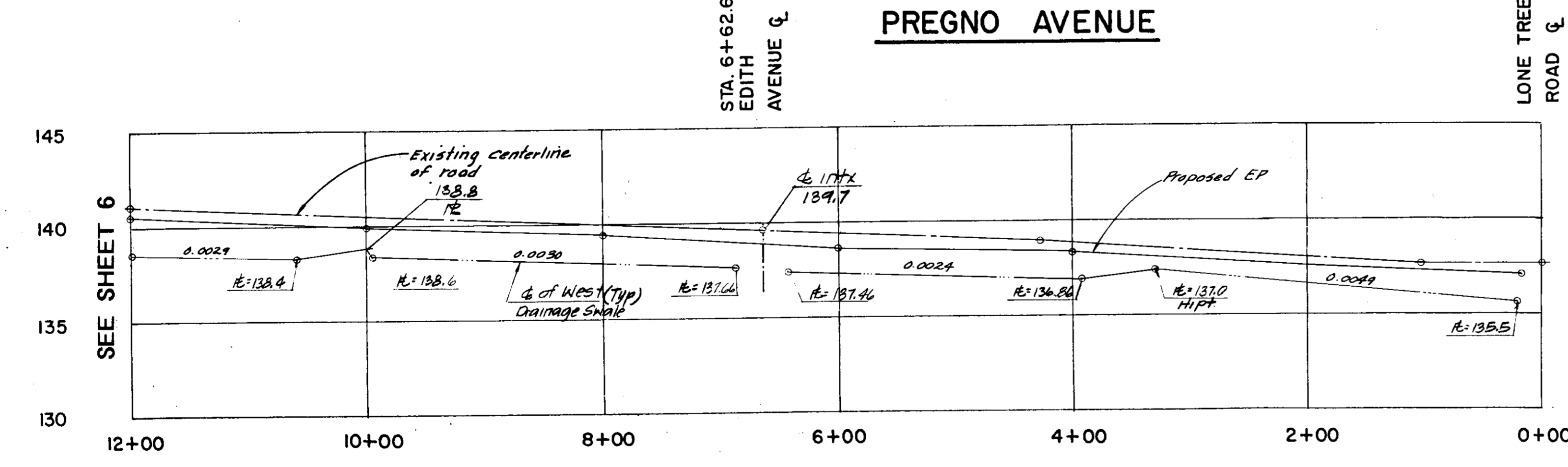
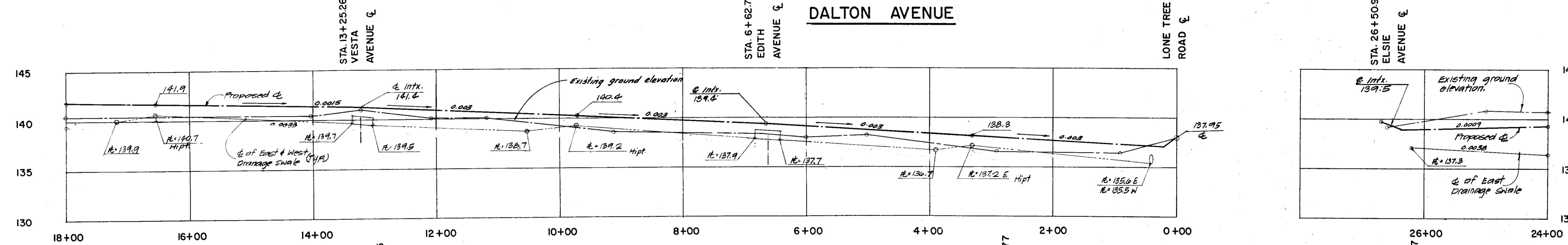
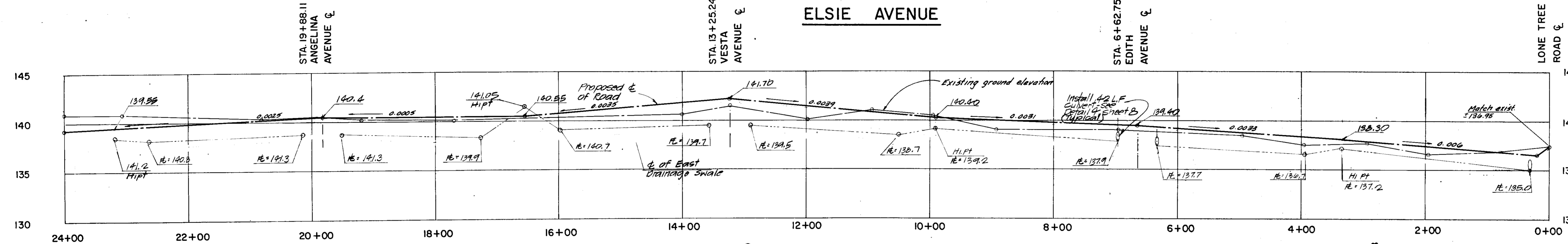
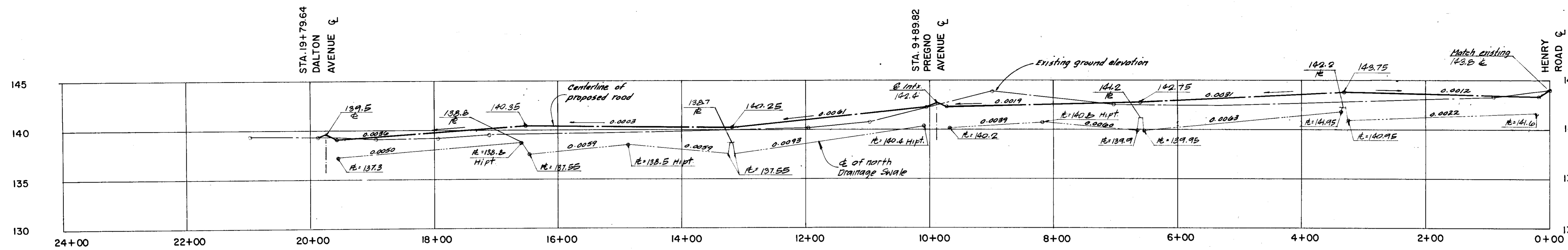
**ESCALON RANCH COLONY**  
PHASE 1  
ROAD PROFILES

Date: JULY, 1991  
Job Number: 1186-004.0  
Scale: HORIZ. 1" = 80'  
VERT. 1" = 5'  
Sheet Number: 6 of 12  
File Number: E-1549





See sheet 6



Design RB  
 Drawn PB  
 Check djb

Revisions  
 no. date by description

Submitted 7/27/91  
 Approved

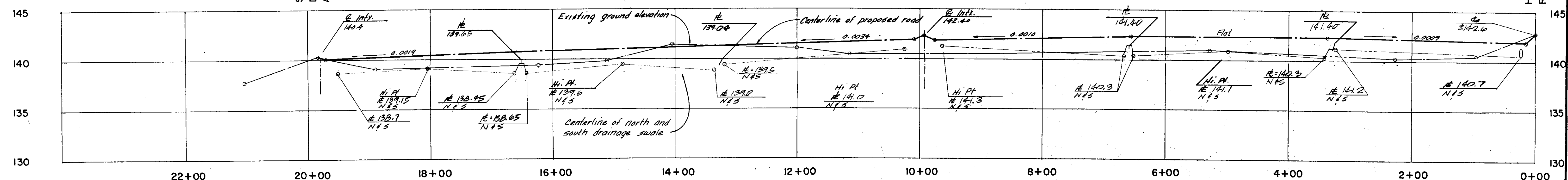
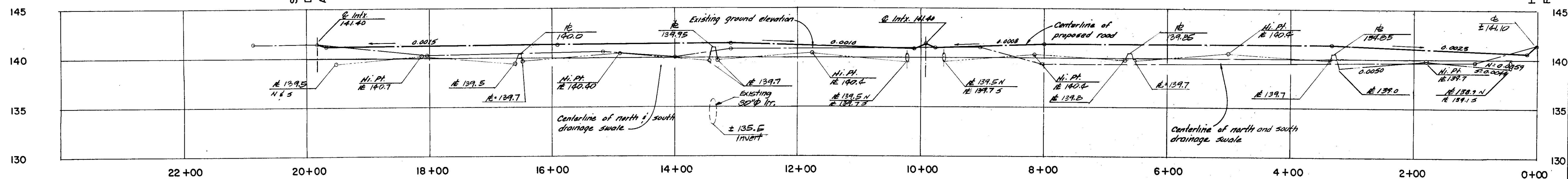
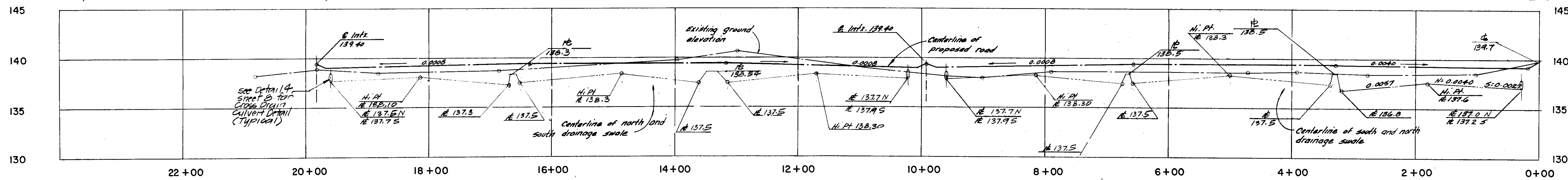
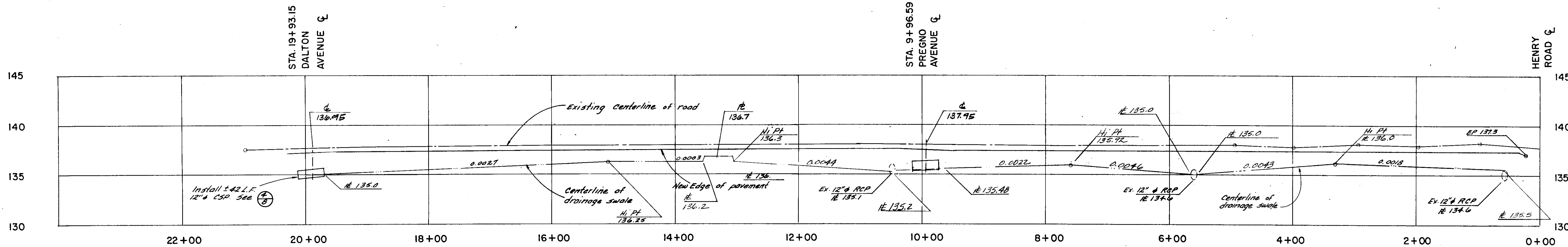
113 W. FREMONT STREET  
 STOCKTON, CALIFORNIA  
 (209) 946-0268

**KJELSDEN - SINNOCK & ASSOCIATES, INC.**  
 CIVIL ENGINEERS  
 CONSULTING

**ESCALON RANCH COLONY**  
 PHASE 1  
 ROAD PROFILES

Date JULY, 1991  
 Job Number 1186-004.0  
 Scale  
 HORZ. 1" = 80'  
 VERT. 1" = 5'  
 Sheet Number 5 of 12  
 File Number E-1549

REGISTERED PROFESSIONAL ENGINEER  
 NO. 109  
 EXP. 6-30-99  
 CIVIL  
 STATE OF CALIFORNIA



SU2493

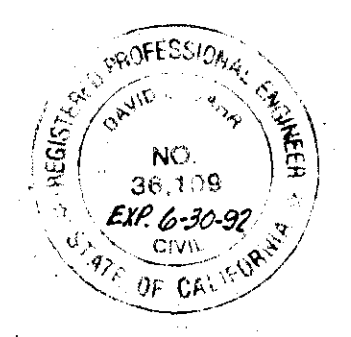
Design	RB	
Drawn	PB	
Check		
Revisions		
No.	Date	Description

**KJELDSEN - SINNOCK & ASSOCIATES, INC.**  
 CIVIL ENGINEERS  
 Submitted: [Signature] 7/6/91  
 Approved: [Signature]

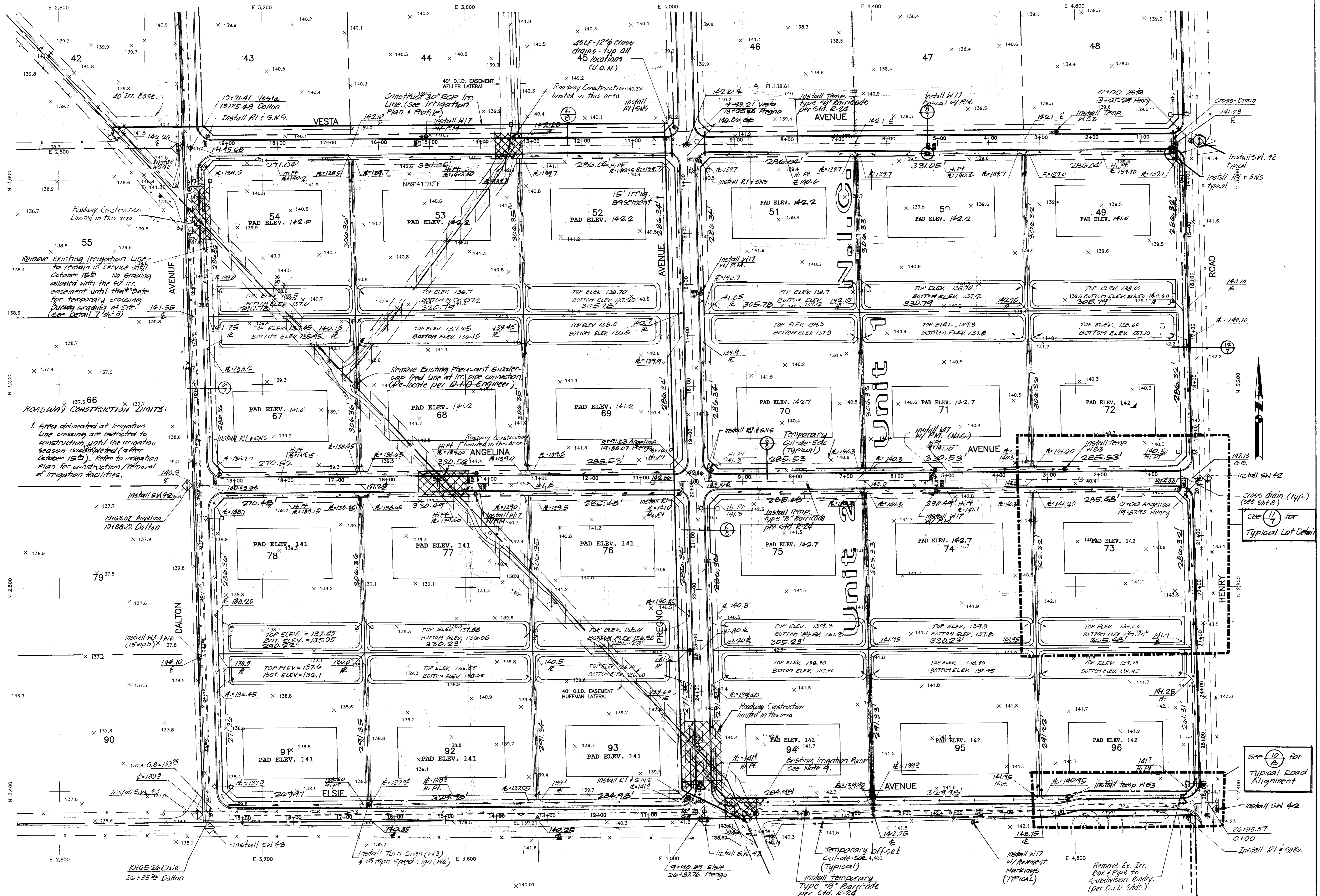
1113 W. FREMONT STREET  
 STOCKTON, CALIFORNIA  
 (209) 946-0288

**ESCALON RANCH COLONY**  
 PHASE 1  
 ROAD PROFILES

Date: JULY, 1991  
 Job Number: 1186-004.0  
 Scale: HORZ. 1" = 80'  
 VERT. 1" = 5'  
 Sheet Number: 4 of 12  
 File Number: E-1549



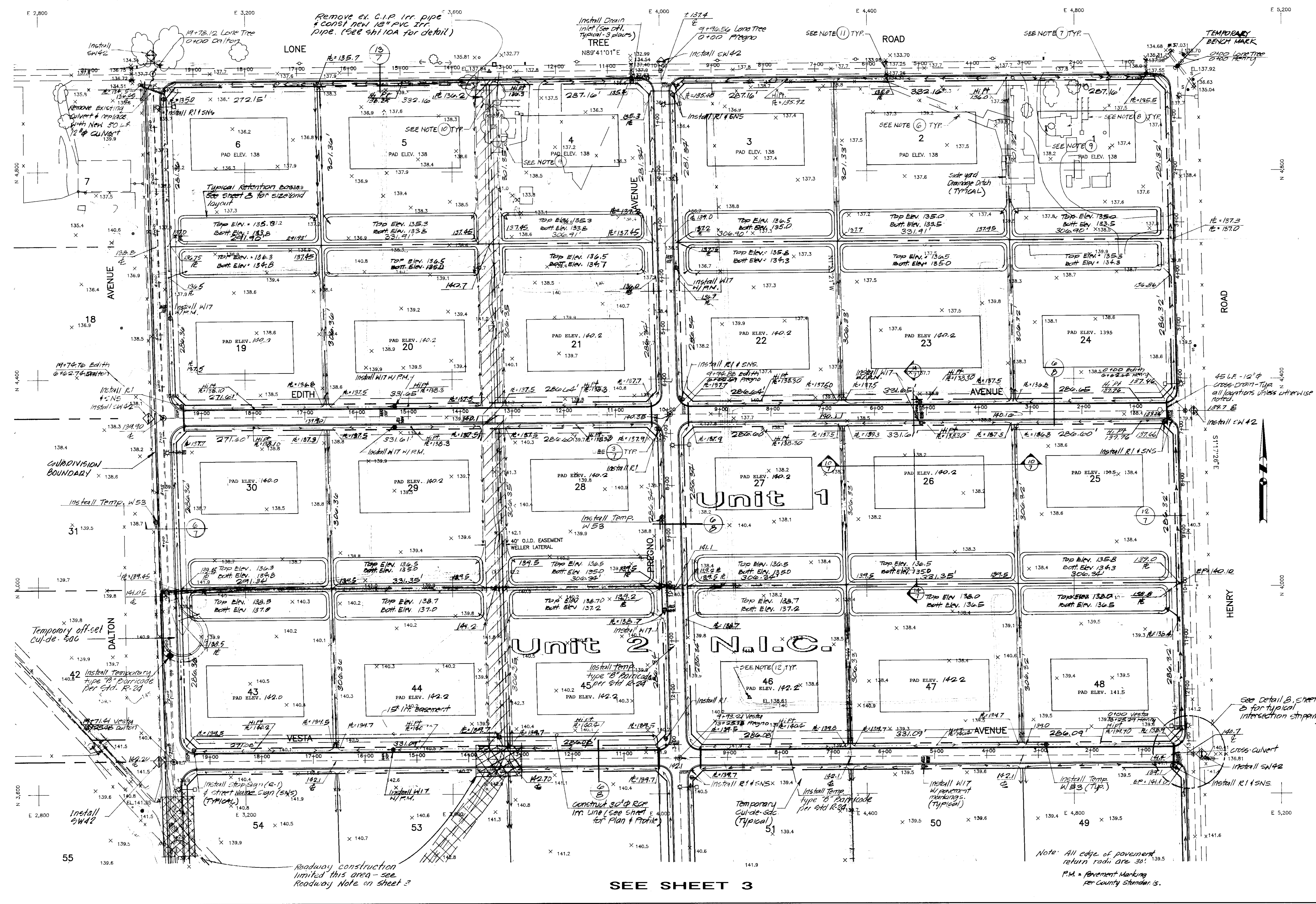
SEE SHEET 2



su2494

DESIGN	R.M.B.
DRAWN	C.C.
CHECK	R.M.B.
REVISIONS	
NO.	DATE
1	7/10/91
2	7/27/91
SUBMITTED <i>[Signature]</i>	
APPROVED <i>[Signature]</i>	
KJELDSEN-SINNOCK & ASSOCIATES, INC. CONSULTING CIVIL ENGINEERS	
1115 W. FRENCH STREET STOCKTON, CALIFORNIA (209) 946-0288	
ESCALON RANCH COLONY PHASE I IMPROVEMENT PLANS	
DATE	JULY, 1991
JOB NUMBER	1186-004
SCALE	1" = 80'
SHEET NUMBER	3 OF 12
FILE NUMBER	E - 1549

SU2495



SEE SHEET 3

DESIGN	R.M.B.
DRAWN	C.C.
CHECK	R.M.B.
REVISIONS	NO. DATE DESCRIPTION
1	7/18/91 dk Adder Unit line
SUBMITTED 7/18/91	
APPROVED 7/18/91	
DATE	JULY, 1991
JOB NUMBER	1186-004
SCALE	1" = 80'
SHEET NUMBER	2 OF 12
FILE NUMBER	E - 1549

KJELDSEN-SINNOCK & ASSOCIATES, INC.  
CONSULTING CIVIL ENGINEERS  
1113 N. FRENCH STREET  
STOCKTON, CALIFORNIA  
(209) 946-0288

ESCALON RANCH COLONY  
PHASE I  
IMPROVEMENT PLANS

Note: All edge of pavement return radii are 30'.  
P.M. = Pavement Marking per County Standard.

# ESCALON RANCH COLONY

## Road & Storm Drainage Improvements

### PHASE 1

1. Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify and hold harmless, the County of San Joaquin, its elected officials, officers, employees, and agents from any and all claims, costs of litigation, damages, and attorney's fees, for personal injury or property damage of whatever nature which are claimed to have occurred during the term of this project.

2. All construction practices and materials to conform to San Joaquin County Standards and State of California, Department of Transportation Standard Specifications, including but not limited to the following specific items:

ITEM	STATE & COUNTY SECTION
Aggregate Base	26
Asphalt Concrete	39
Clearing & Grubbing	16

3. Contractor to obtain all necessary permits prior to start of work. Encroachment Permit shall be obtained prior to any work within San Joaquin County right-of-way.

4. The contractor shall provide all lights, signs, barricades, flagmen, or other devices necessary to provide for public safety.

5. All traffic signs and markings shall conform to the Manual on Uniform Traffic Control Devices & County Standards.

6. Remove all existing interior fencing and perimeter fencing along Lone Tree Road. Contractor to be responsible for removal and disposal of all waste materials.

7. All existing utility poles and lines lying within the project boundaries and the future right-of-way of Lone Tree Road are to be relocated to the dedicated 10' P.U.E.'s as shown. Future utility service to each lot is to be provided via overhead poles and lines also located within the dedicated 10' P.U.E.'s as shown. Contractor to coordinate removal and installation of cable with the various utility companies involved.

Pacific Gas and Electric - Jack Olson (209) 847-9560  
 Pacific Bell - Susan Montgomery (209) 668-5866  
 Sonic Cable TV - Tom Shears (209) 571-9090

8. Demolish and remove all existing structures unless otherwise indicated. Excavate and remove all underground pipes and structures including septic tanks and leach fields unless otherwise indicated.

9. Preserve and protect existing wells, properly seal under Permit from San Joaquin County Department of Environmental Health.

10. Remove trees from future right-of-way line of Lone Tree Road; otherwise preserve and protect all existing trees. Avoid grading and excavation within 10 feet of drip line, if possible.

11. Remove headwall along south side of Lone Tree Road. Extend existing 18" RCP culverts to centerline of new shoulder ditch.

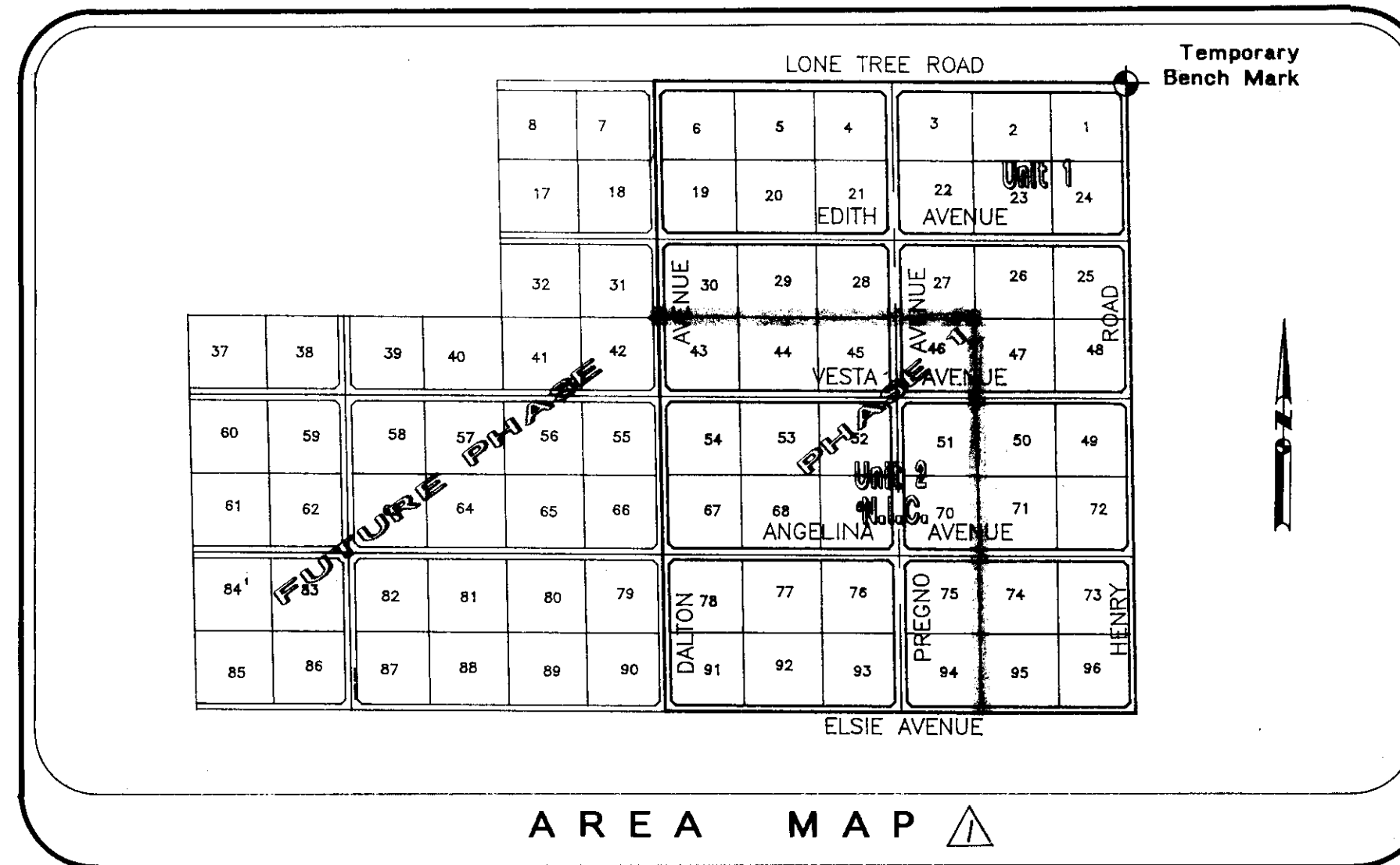
12. Preserve and protect horizontal and vertical monuments wherever possible.

13. Contractor to verify all required dimensions, elevations, quantities, and conditions on site.

14. The contractor shall excavate, fill and grade the project site in order that the site improvements can be constructed to the grades and slopes shown on the plans. Adjustments to finished or subgrade elevations to achieve cut and fill balance shall be made only with the approval of the engineer. The contractor shall be held responsible for any field changes made without authorization from the engineer.

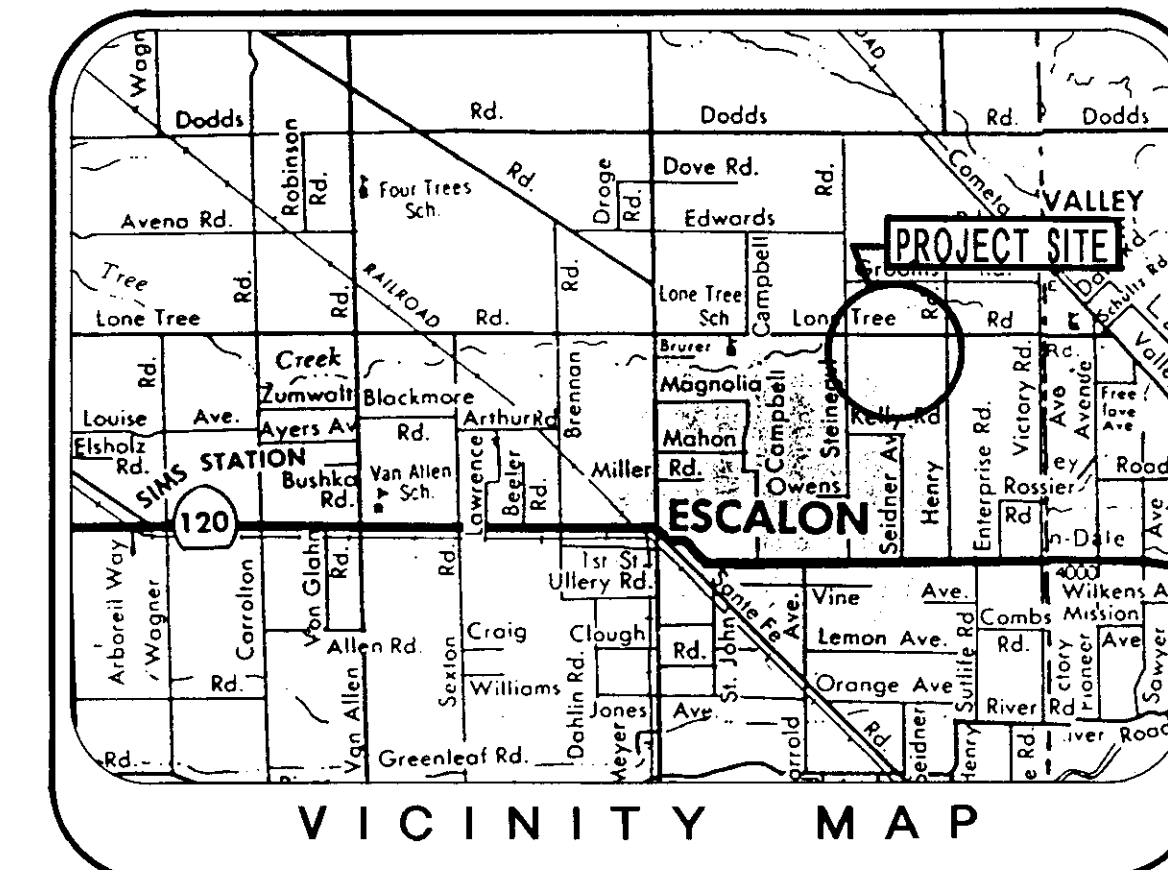
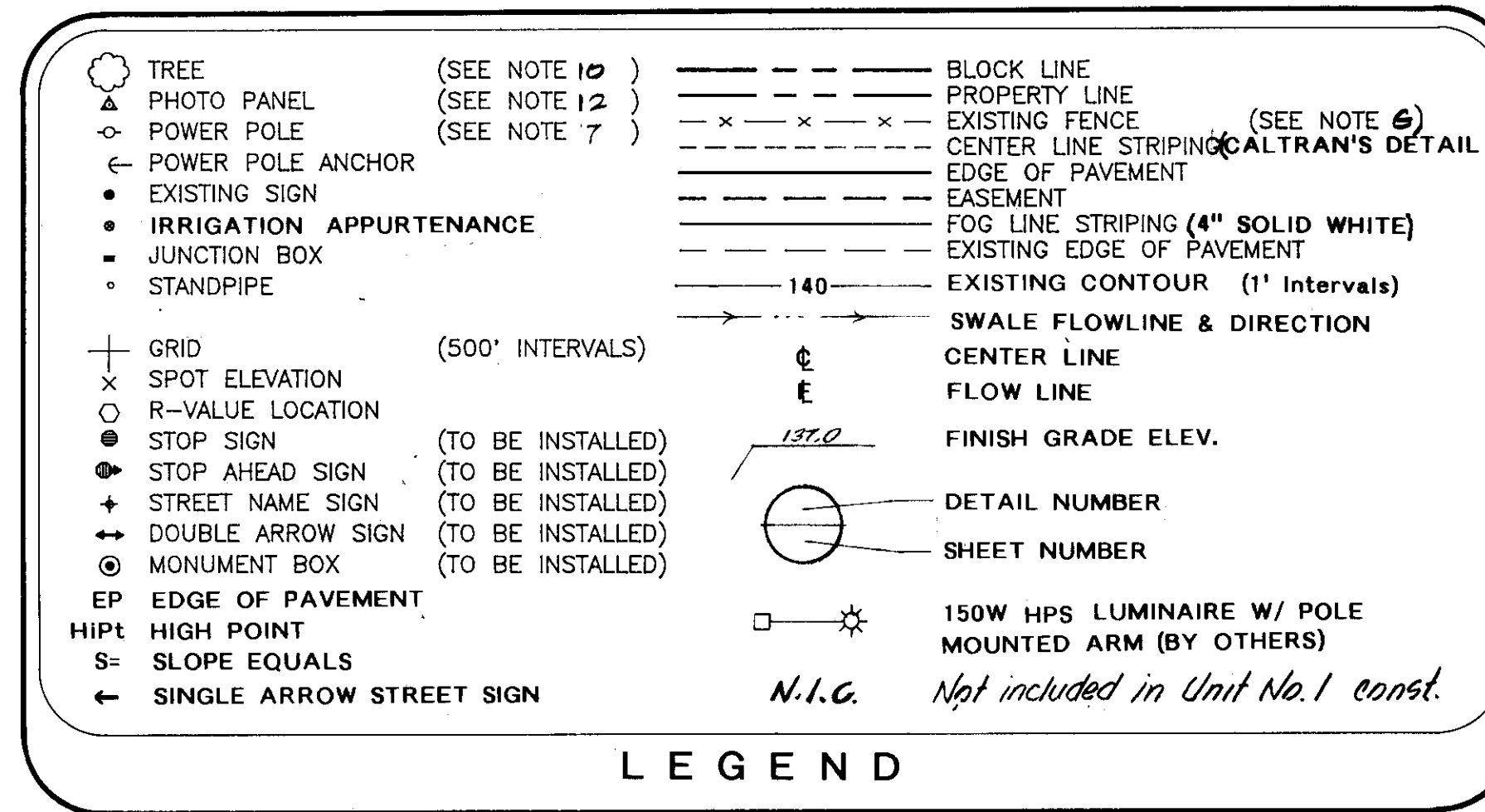
15. All areas to be covered with asphalt concrete paving shall have a subgrade compacted to 95% relative compaction to a point 6" below subgrade. (See Soils Report dated November 6, 1990, by Kleinfelder, Inc.)

**GENERAL NOTES**



SHEET NO.	DESCRIPTION
1	Title
2&3	Improvement Plans
4,5&6	Road Profiles
7&8	Details
9&10	Irrigation Plan & Profile
11&12	Irrigation Details

**SHEET INDEX**



San Joaquin County Department of Public Works

*Henry M. Horta* 8/8/91  
 Henry M. Horta R.C.E. 21,258  
 Director of Public Works

San Joaquin County Fire Warden

*Greg Schwab* 7-15-91

**APPROVAL**

TEMPORARY BENCH MARK: Top of bolt and washer, section corner monument at the intersection of Lone Tree Road and Henry Road centerline. Elevation is 137.92 feet U.S.G.S. Datum.

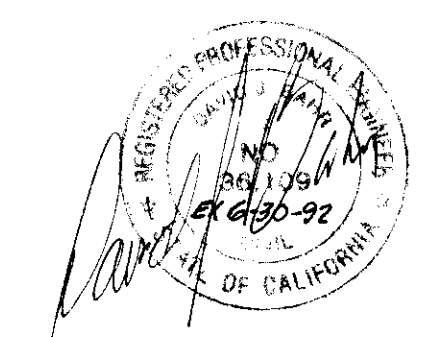
BENCH MARK: Top of brass disc stamped "E-32.95" San Joaquin County Bench Mark set on top of headwall west side of Escalon-Bellota Road 260 feet north of Lone Tree Road. Elevation is 117.37 feet U.S.G.S. Datum.

**FOR IRRIGATION ONLY**

O.I.D., ITS EMPLOYEES AND AGENTS ARE NOT RESPONSIBLE FOR VERIFICATION OF ELEVATIONS AND DIMENSIONS INDICATED ON PLANS NOR ANY ERRORS OR OMISSIONS THAT MAY BE PRESENT. APPROVAL IS SUBJECT TO THE DATA SHOWN WHICH APPEARS TO BE IN CONFORMITY WITH O.I.D. REQUIREMENTS FOR PROTECTION OF DISTRICT FACILITIES.

SO CONDITIONALLY APPROVED: *David S. Moore* DATE: 7/22/91

REVISION NO.1 APPROVED *D.S.M. 7/24/91*



SUSAN

Escalon Ranch Colony PHASE 1 TITLE SHEET

JULY, 1991

1186-004.0

No Scale

1 12

E - 1549