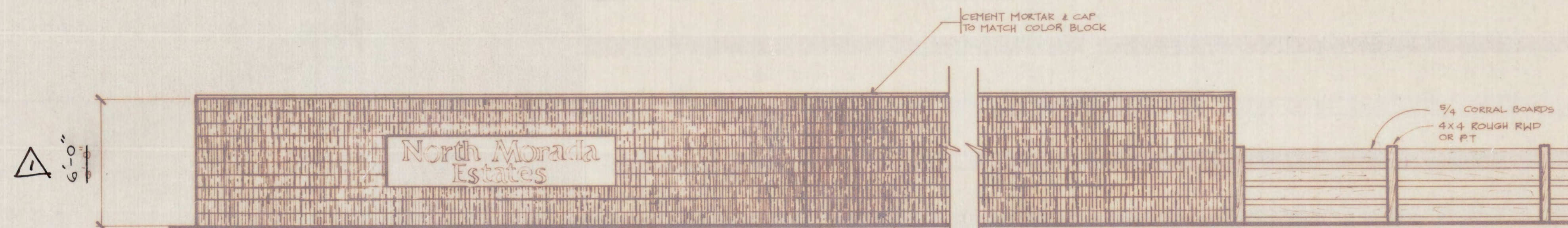
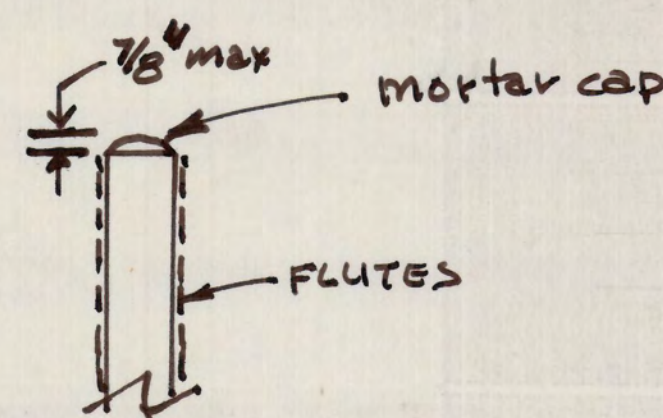


REVISIONS	BY

GENERAL NOTES:

1. MORTAR COLOR IS TO MATCH COLOR OF BLOCK.
2. ALL JOINTS ARE TO BE STRUCK JOINTS.
3. TOP OF WALL SHALL HAVE A ROUNDED MORTAR CAP TO MATCH BLOCK. 7/8" high max. DO NOT EXTEND CAP BEYOND WALL THICKNESS

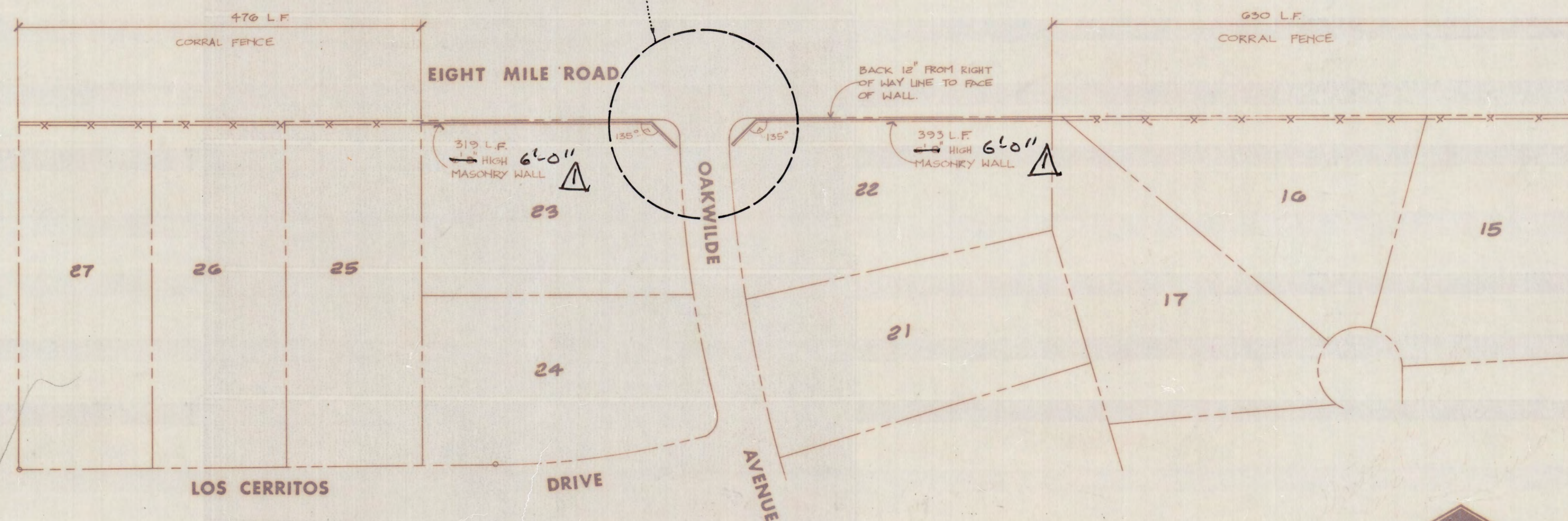


ELEVATION

SCALE: 1/4" = 1' 0"

NOTE:

PRIOR TO INSTALLATION OF THE WALL, THE CONTRACTOR SHALL VERIFY W/ THE BUILDING DEPT. INSPECTOR AS TO LOCATION OF WALL SO THAT SET-BACKS AND CLEAR VISION TRIANGLES ARE NOT INTERFERED WITH.



PLAN VIEW



SCALE: 1" = 100'

"As Built" Plans
by Roy A. Galli date: 12-18-89
RCE16024
Δ wall @ 6'-0" (reduced to 6'-0" from 6'-8")

8/8/89
Roy A. Galli
9/12/89

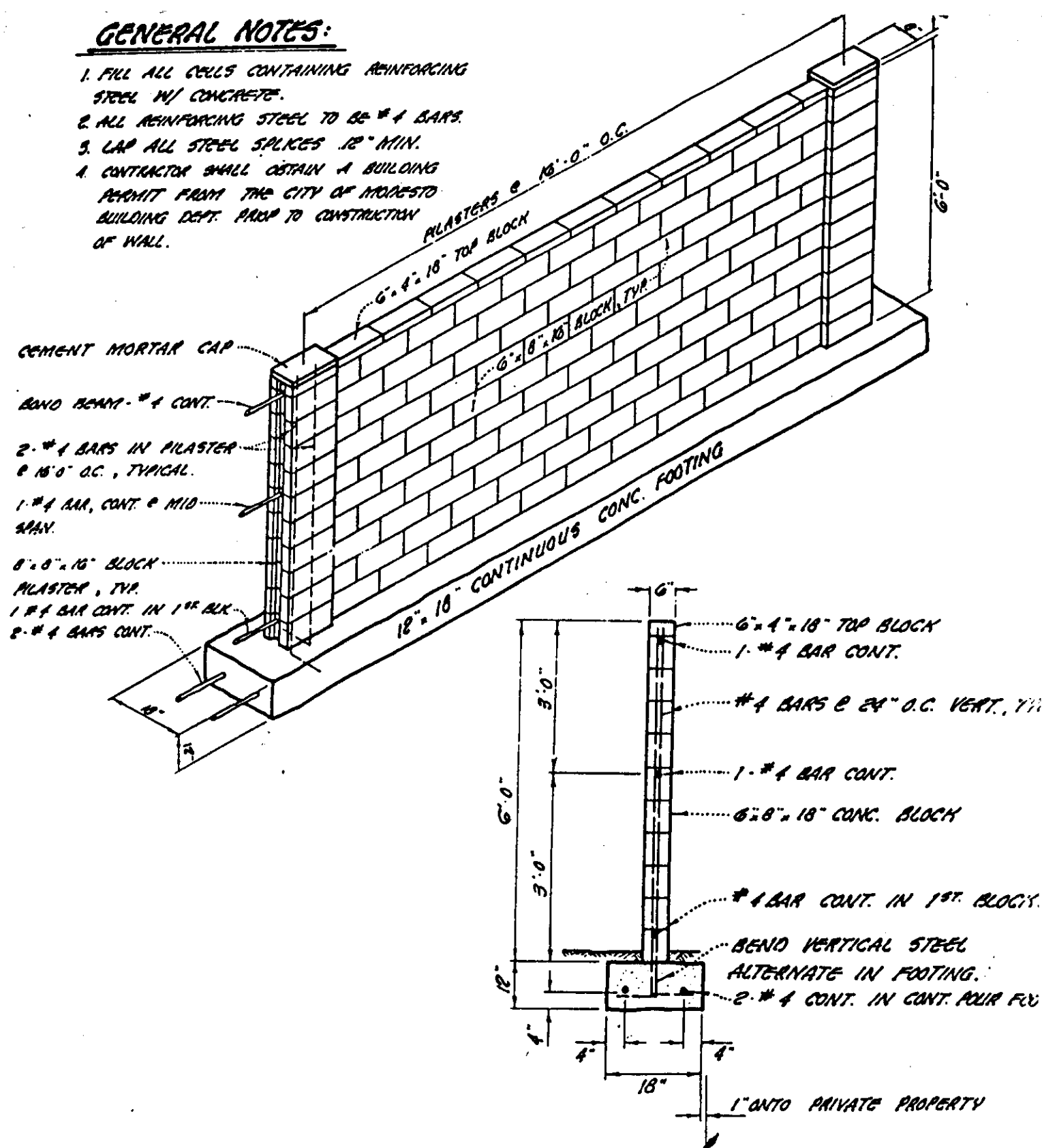
Date	JUNE 89
Scale	AS SHOWN
Drawn	RY, 2/4/89
Job	89-039
Sheet	28A
Of	28 Sheets

NORTH MORADA ESTATES
MASONRY WALL PLAN

SU-2074-a

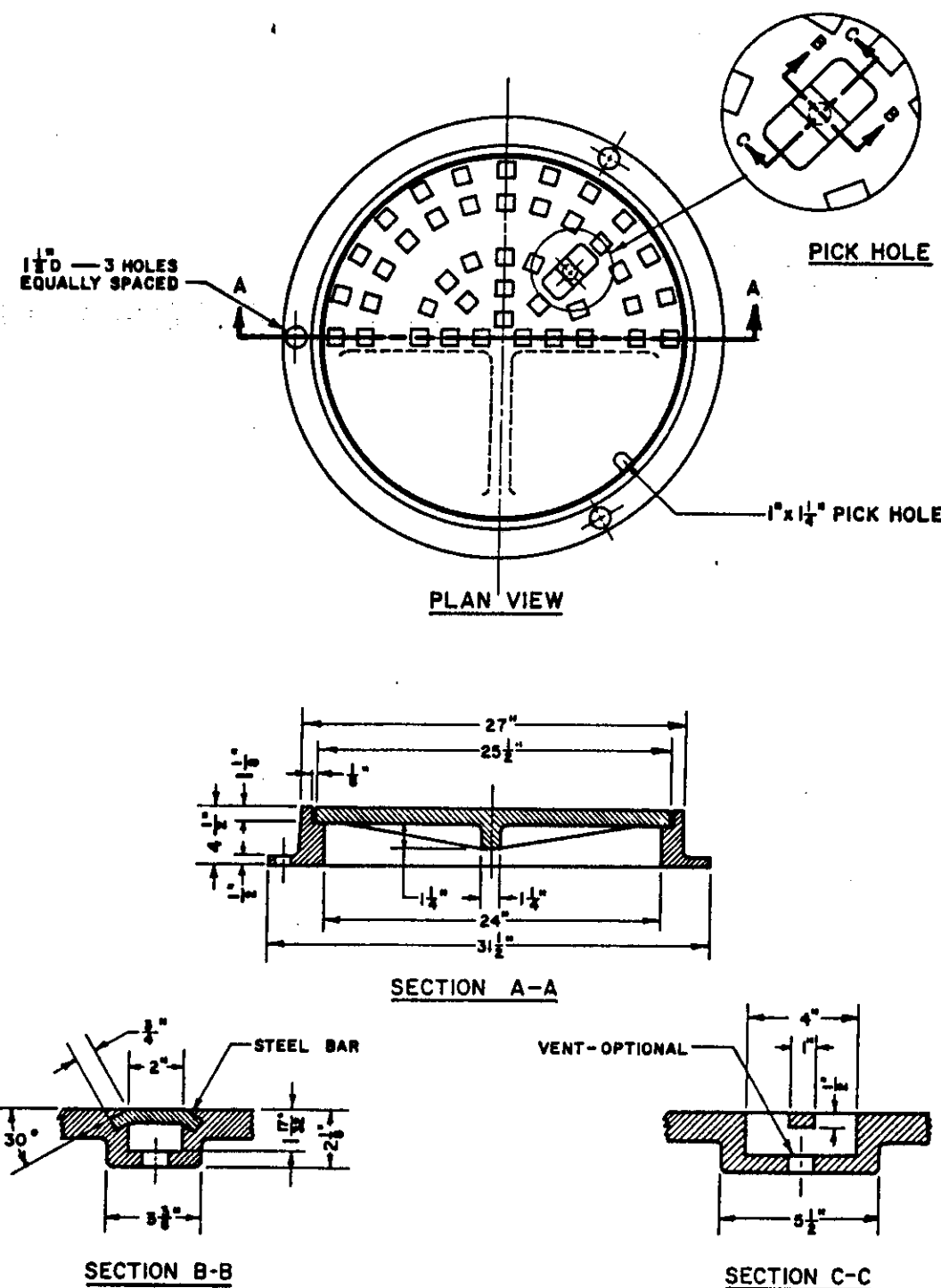
GENERAL NOTES:

1. FILL ALL COLES CONTAINING REINFORCING STEEL IN CONCRETE.
2. ALL REINFORCING STEEL TO BE #4 BARS.
3. LAP ALL STEEL SPICES 12" MIN.
4. CONTRACTOR SHALL OBTAIN A BUILDING PERMIT FROM THE CITY OF MARIETTA BEFORE DOING ANY CONSTRUCTION OF WALL.



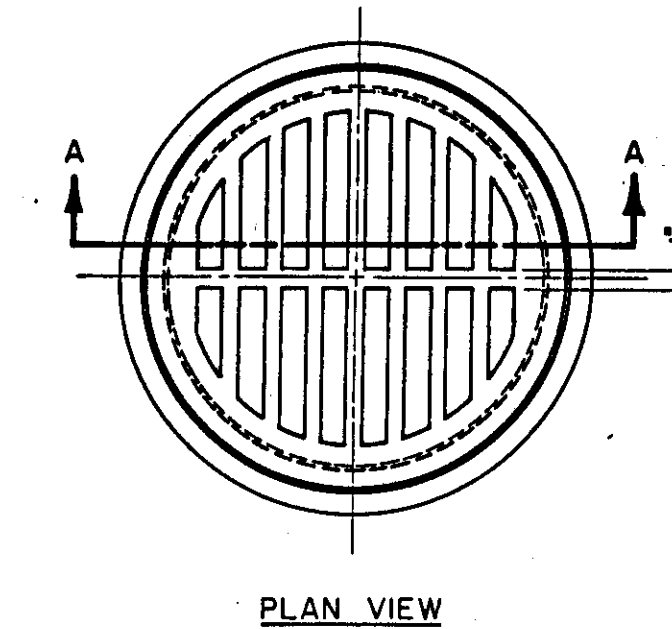
SECTION
SCALE: 3/8"=1'

MASONRY WALL
NO SCALE

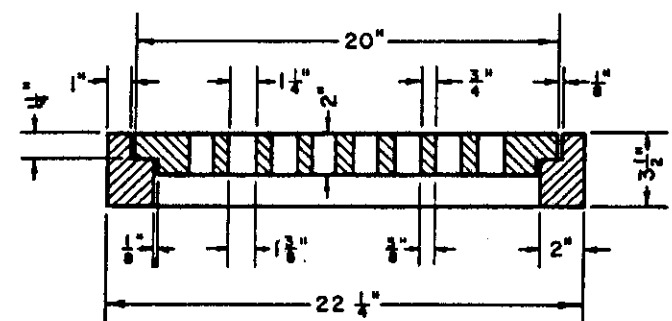


NOTE: Frame and Cover shall be machined to assure interchangeability and a close, quiet fit.

FRAME & COVER (MANHOLE)
NO SCALE: SAN JOAQUIN CO. STANDARDS DWG. C-5.



PLAN VIEW

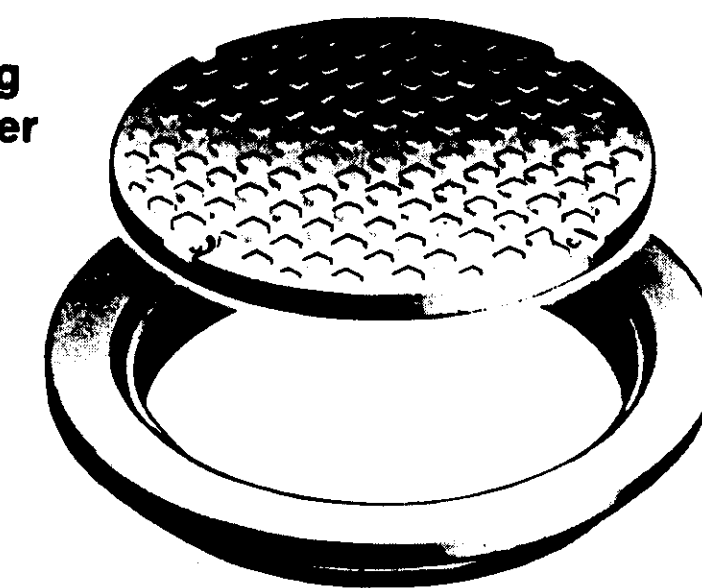
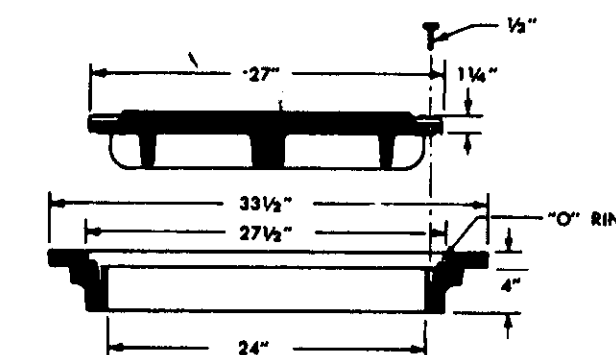


SECTION A-A

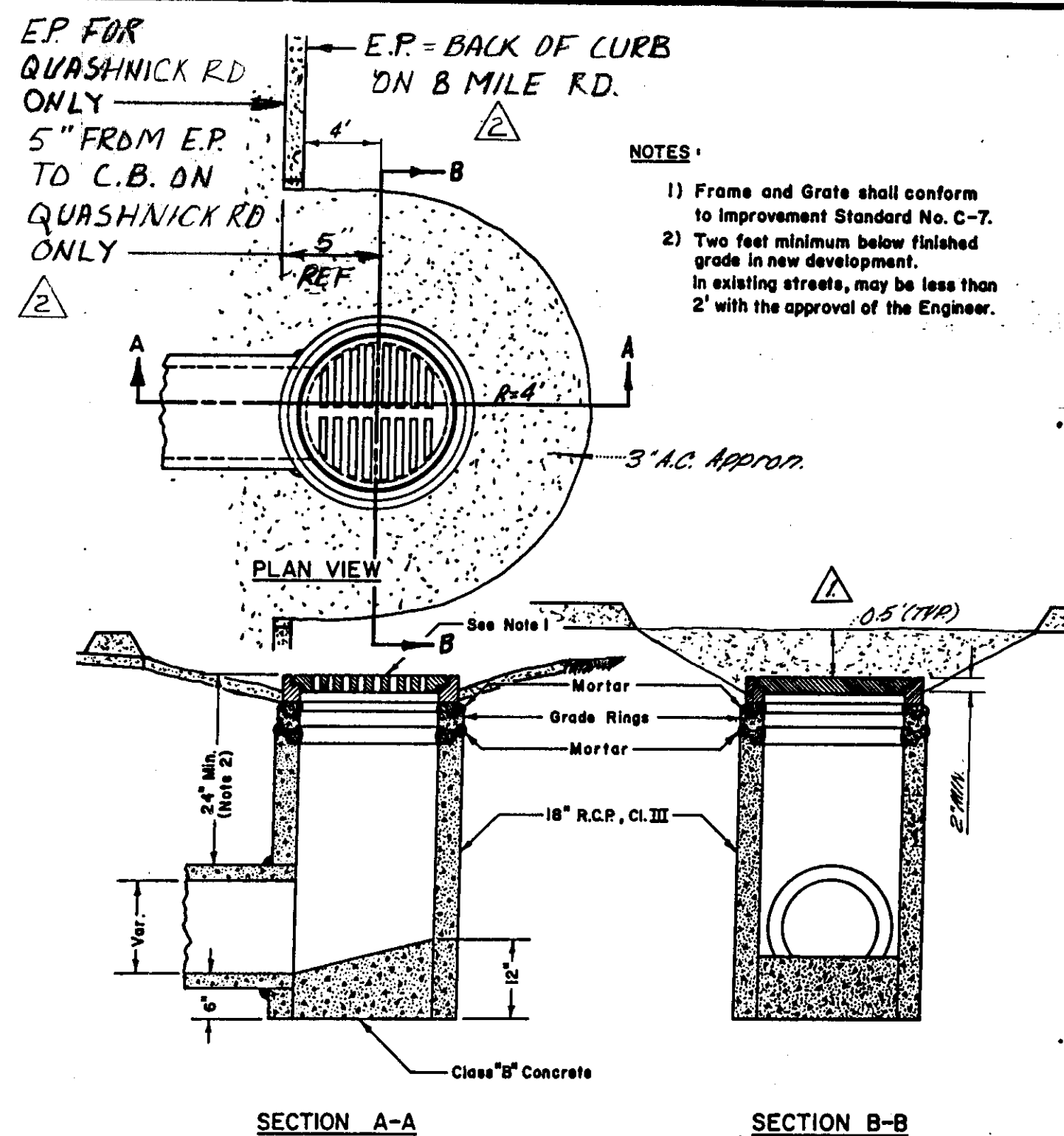
NOTE: Gasket shall be fastened to frame with 18x1/2 inch heat-treated chain.

FRAME AND GRATE (18" S.D. INLET)
NO SCALE: SAN JOAQUIN CO. STANDARDS DWG. C-7.

Manhole Ring with "O" Ring Gasket and Bolt Down Cover
Approximate Wt. 360 lbs.



PRESSURE MANHOLE FRAME & COVER
NO SCALE

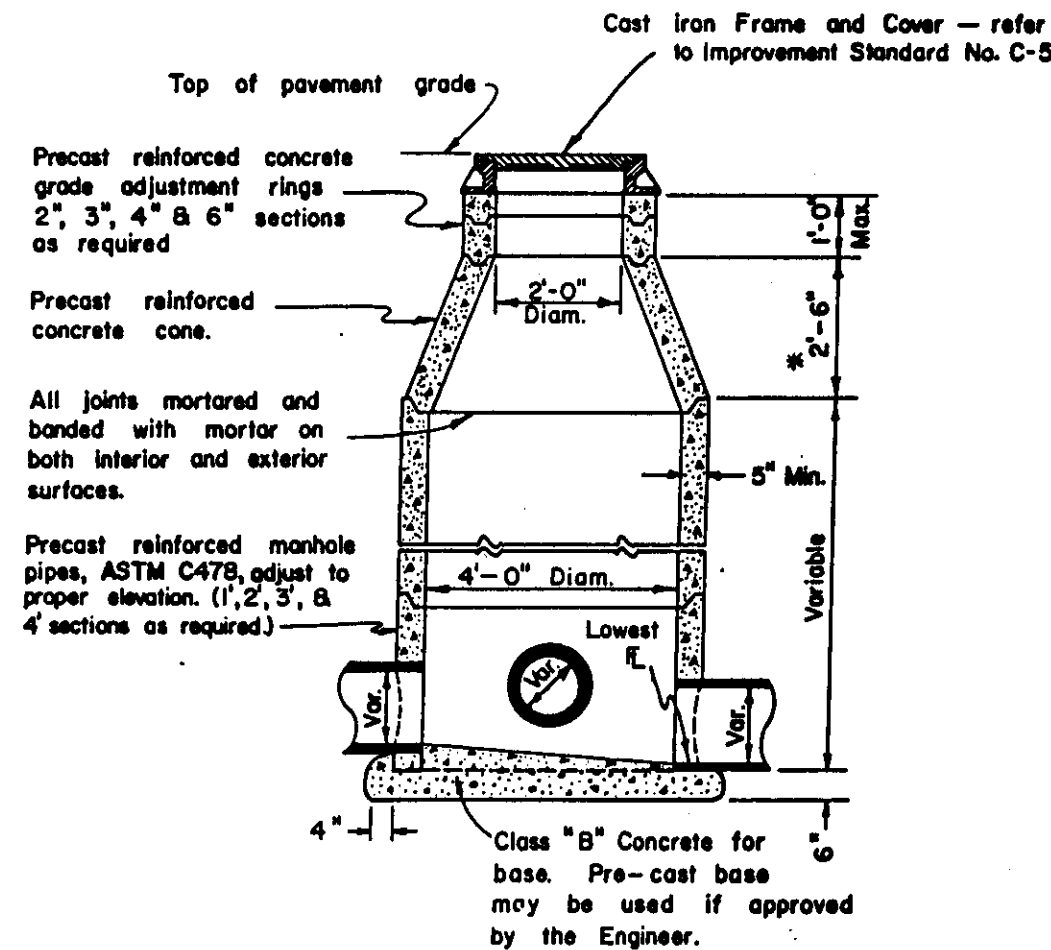


- NOTES:
- 1) Frame and Grate shall conform to Improvement Standard No. C-7.
 - 2) Two feet minimum below finished grade in new development. In existing streets, may be less than 2' with the approval of the Engineer.

SECTION A-A

SECTION B-B

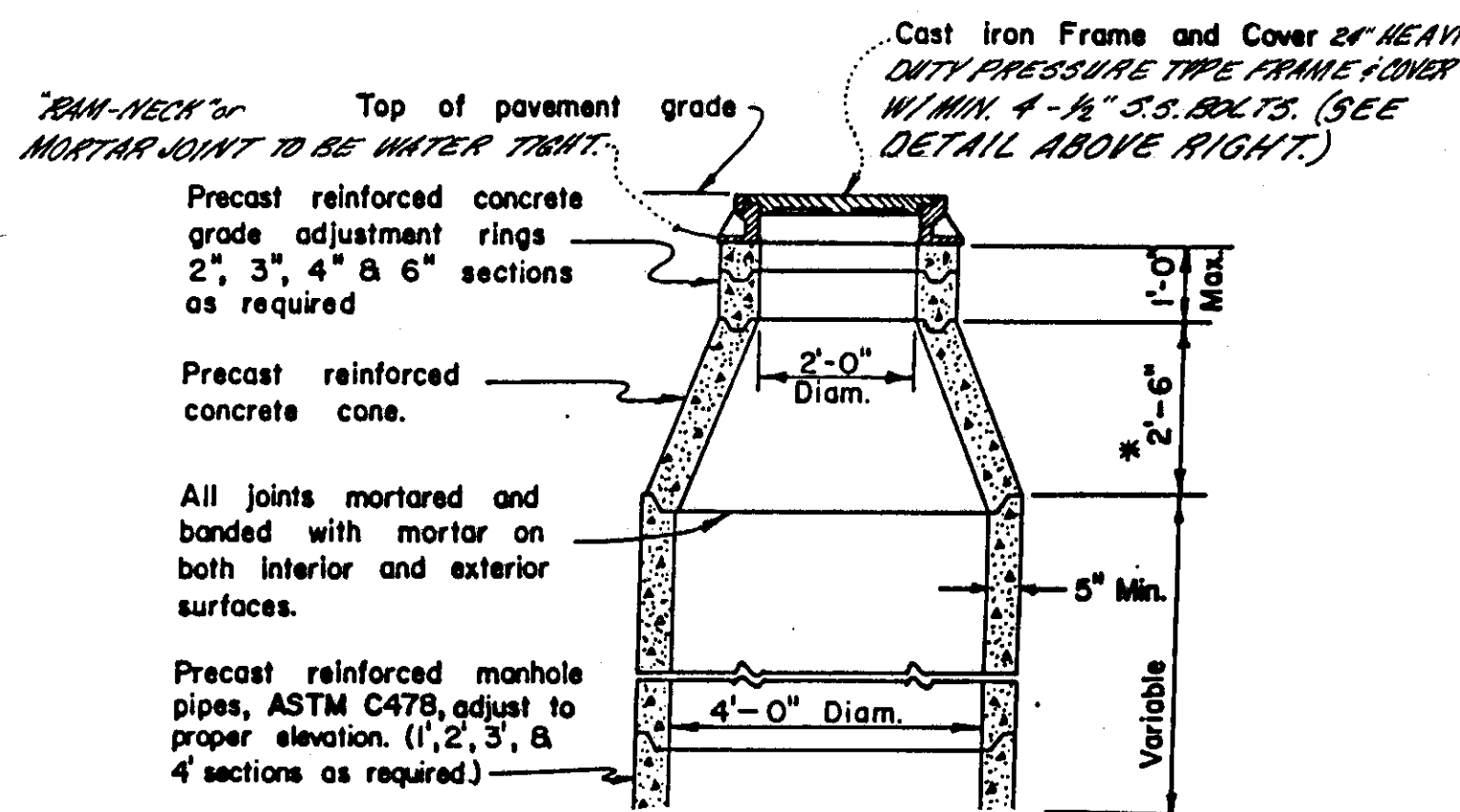
18" STORM DRAIN INLET
8 MILE ROAD & QUASHNICK RD



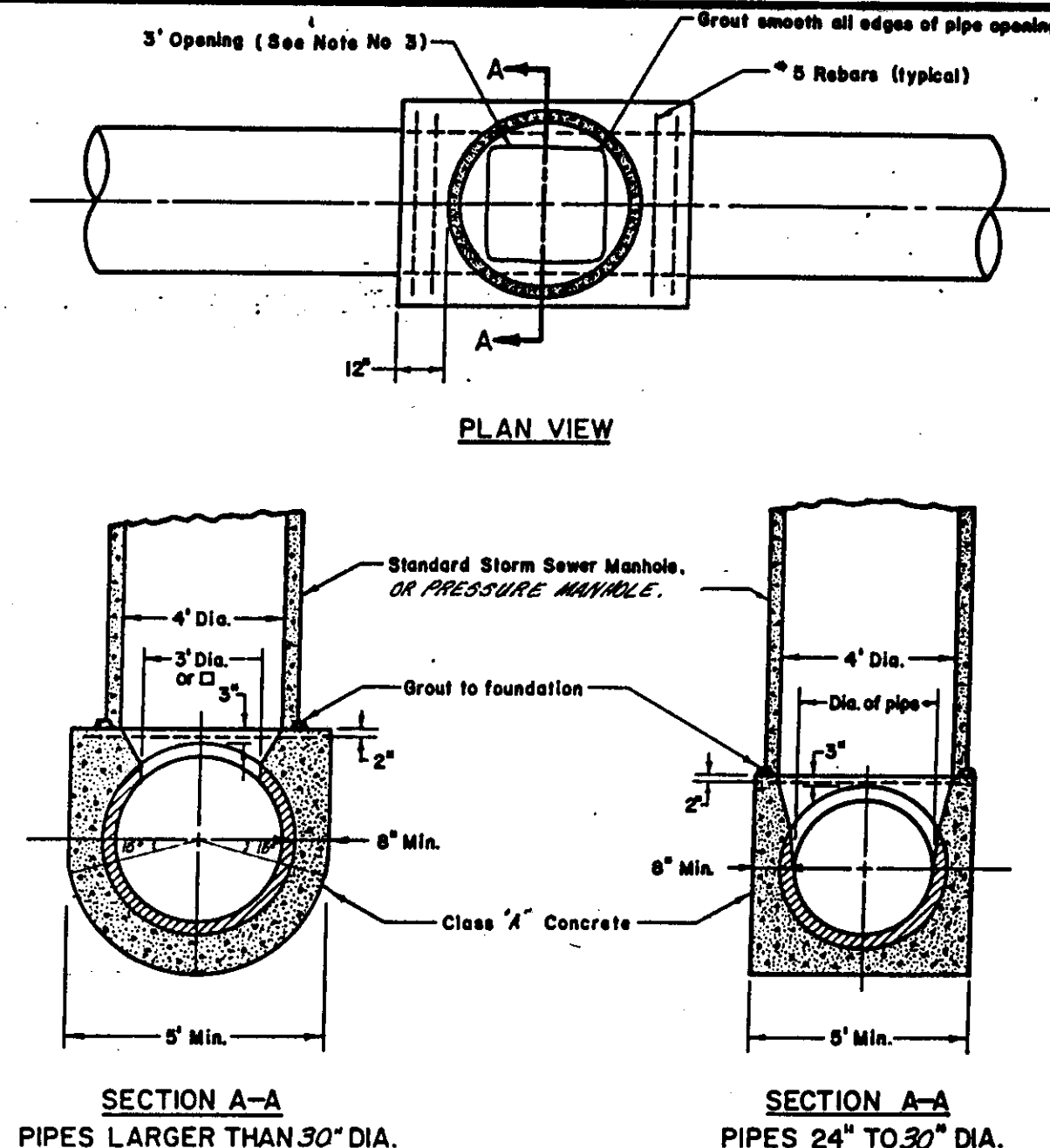
ELEVATION
STORM SEWER MANHOLE

* NOTE: A 1'-6" concrete cone may be used if approved by the Engineer.

STANDARD STORM SEWER MANHOLE
NO SCALE



PRESSURE MANHOLE
NO SCALE



- NOTES:
1. The foundation shall be a minimum of 5' for 44" O.D. pipe and smaller.
 2. For pipe larger than 44" O.D., the foundation shall extend a minimum of 8" beyond each side of the pipe.
 3. Opening to be 3' long x (I.D. of pipe) wide, up to 36" I.D. pipe. For pipes larger than 36" I.D., opening to be 36" Diameter or Square.

SADDLE-TYPE MANHOLE 24" DIA. & LARGER

AS-BUILT PLAN REVISIONS
BY Roy A. Galli DATE 12-18-89
RCE 16024
ADD LOC DIMS FOR 8 MILE AND
QUASHNICK RD ON 18" S.D. INLET DET.
ADDED SHEETS 28A & 28B

mid-valley
engineering

ENGINEERING
&
SURVEYING
PLANNING
&
ZONING

P.O. BOX 816 900 H STREET, SUITE G
MODESTO CALIFORNIA 95353 (209) 526-4214

STANDARD DETAILS

MORADA ESTATES NORTH
SAN JOAQUIN COUNTY

Drawn: HARWOOD	ROY A. GALLI RCE 16024	REVISIONS	DATE	DESCRIPTION	APPROVED
Date: 3-1-88	JIMMY G. BATEMAN L.S. 4685	1	7/1/88	As Noted	
Scale: As Noted		2			
Job No: 501 813		3			
Checked: 6/20/88		4			
File No:		5			

28
OF 28

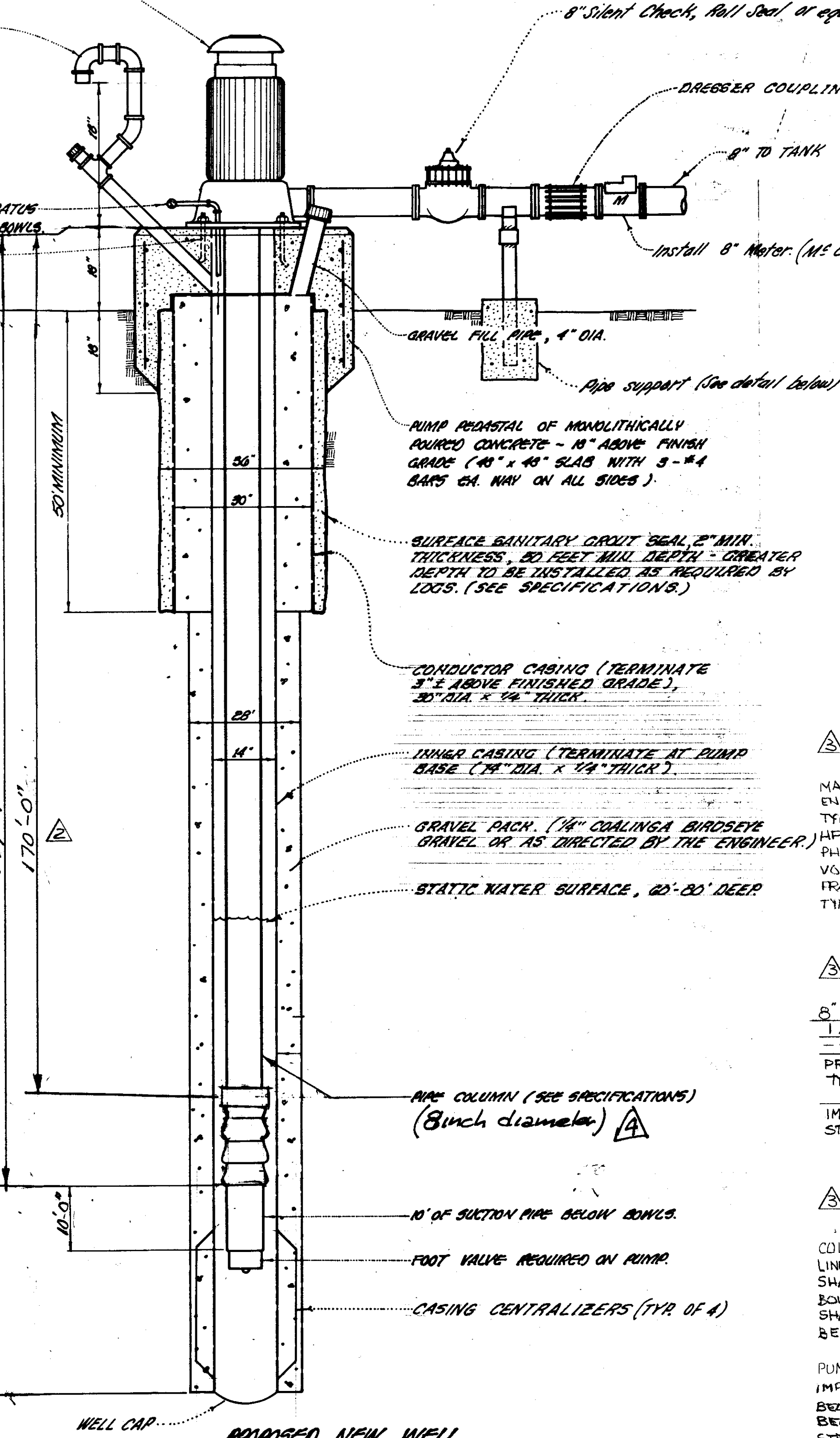
SU-2077

Screen Location 240 - 375
A 375' south well @ Quashnick Road
Screen Location 400' north well
260 - 280 & 300 - 400

MOTOR:
1/2 HP - 1770 R.P.M.
3 PHASE, 60 Hz, 480 V.
W/ FLANGE.

SCREENED AND INVERTED
CASING VENT, 3" DIA. MIN.
ABOVE SLAB SURFACE.

WATER LEVEL GAUGE APPARATUS
AND FITTINGS TO TOP OF BOWLS.
ANCHOR BOLTS, TYPICAL
FINISH GRADE



PROPOSED NEW WELL
WELL PROFILE
ROTARY - DRILLED GRAVEL ENVELOPE WELL

NOTE: ALL ELEVATIONS SHOWN ARE ESTIMATED
ONLY. FINAL LENGTHS TO BE DETERMINED
AFTER LOG BORING ANALYSIS.

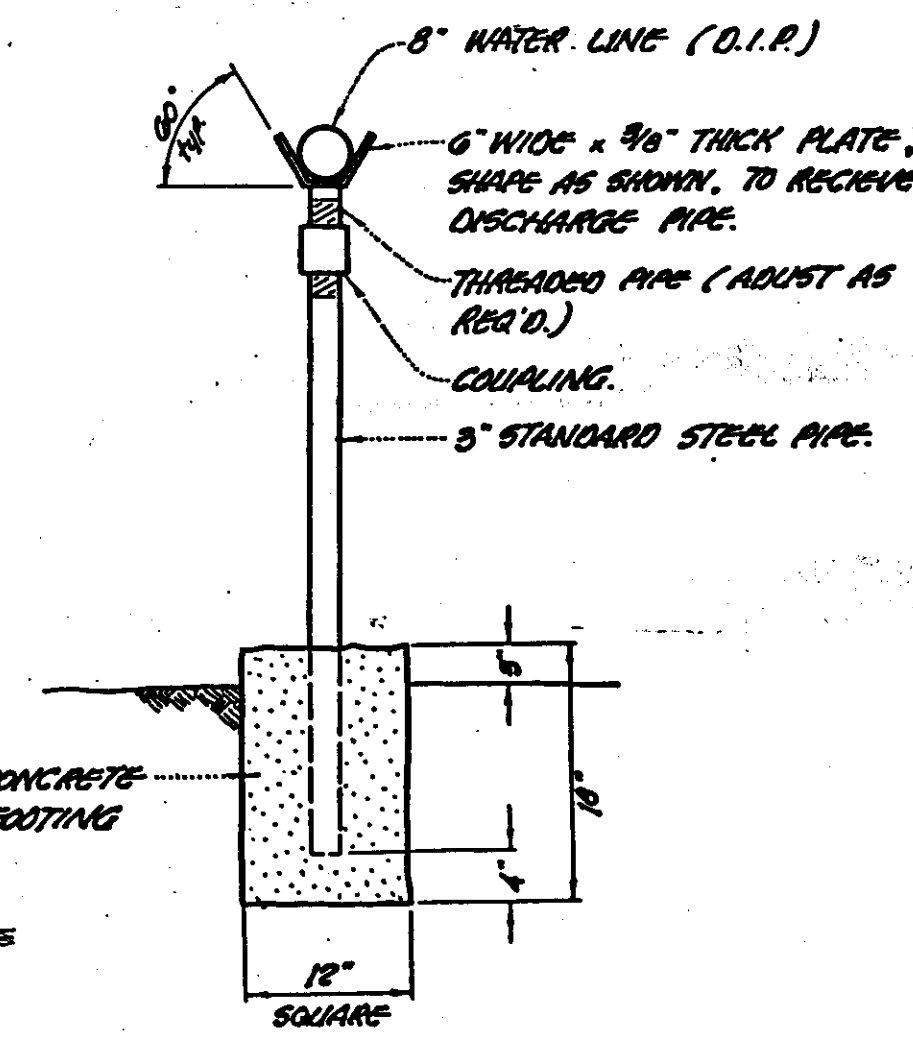
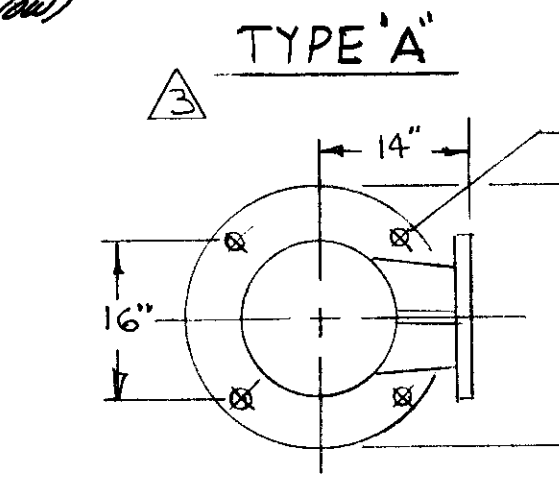
- AS BUILT PLAN REVISIONS
BY Lou H. Allen DATE 12-18-89
RCE 16024
- REVIS WELL PROFILE DIMS
 - ADD PUMP & MOTOR SPECS
 - WELL DEPTHS & PIPE CO. SIZE
 - Removable roof section & photo

Approved by the Director of Public Works,
County of San Joaquin, California.

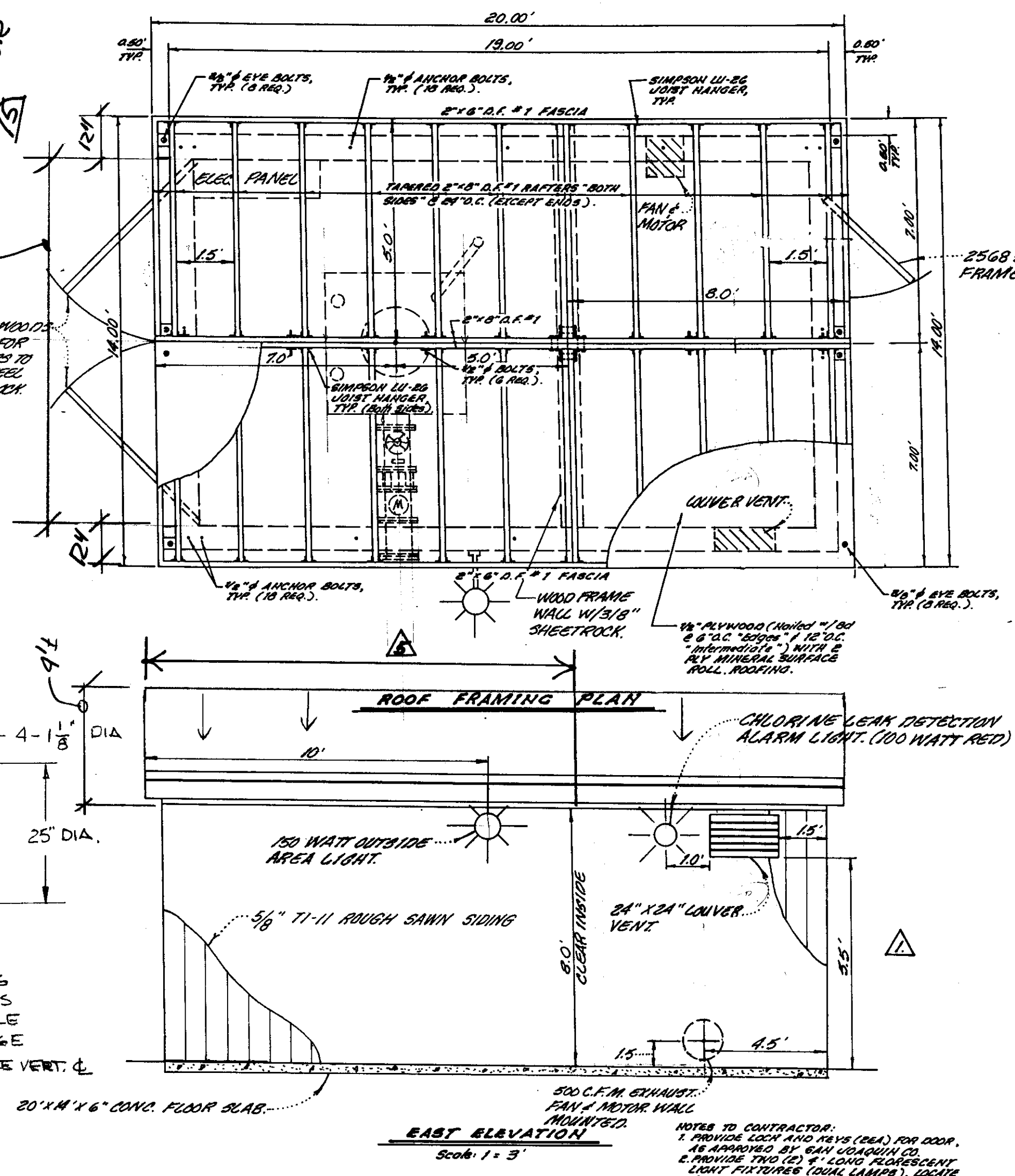
By: _____ Date: _____

- PUMP**
8" x 1 1/2" A" C.I. DISCH HD
1 1/4" LINE SHAFT 8" COL
--- SHAFT TUBE
PROD LUBE YES OIL LUBE NO
TYPE 10 DKH STAGE 8
700 GPM TDH 237
IMPELLER ENCLOSED
STRAINER NO
- MATERIAL**
COL PIPE .250W STL
LINE SHAFT A108 GR 1045 STL
SHAFT TUBE
BOWL SHAFT A582-416 S.S.
SHAFT SEAL J.C. #1340
BEARING RETAINER GR 60 D.I.
- PUMP BOWL A48 CL 30 C.I.E.
IMPELLER B584-838 BRZ
BEARINGS (BOWL) RUBBER/BRONZE
BEARINGS (LINE SHAFT) NEOPRENE
STRAINER
BOWL W/R
IMPELLER W/R
- FLUID WATER
SPEC. GRAV. 1.0

- MOTOR**
MAKE G.E. US OR EQUAL
ENCLOSURE WP-1
TYPE VHS NRR YES
HP 75 RPM 1770
PHASE 3 HERTZ 60
VOLTAGE 480
FRAME NO. ---
TYPE COUPLING THREADED
- DISCHARGE**
8" - 125# ANSI-FF FLG
(12)-1" DIA HOLES
1 1/4" DIA BOLT CIRCLE
16" DIA. FLANGE
* BOLT HOLES STRADDLE VERT. CL



AS REQUIRED WHEN PIPING IS SUSPENDED.



PUMP HOUSE DETAIL
Scale: 1/4" = 1'-0"

- The pump house shall be a conventional wood stud construction (Type V-N-1) with the following minimum requirements:
- Wood frame building 20' long by 14' wide by 8' high.
 - All wood-framed construction shall conform to UBC Chapter 25.
 - The roof shall be "bar & gravel", and shall conform to UBC 22-12 slope of roof shall be flat.
 - Walls shall be covered on the exterior with 5/8" plywood siding (T1-11).
 - The roof shall be totally removable in 4 sections that can be lifted to allow work on the pump. The removal section shall be provided with lifting eyes and shall be clear of all electrical wiring.
 - The door and jamb shall be 18 gage steel with fixed pin hinges and a heavy duty hasp bolted through the door.
 - Vent sizing shall be adequate to supply the venting needs of the chlorinator.
 - Provide 3/4" AC exterior plywood as required on interior walls for mounting electrical panels and equipment. All other interior walls to be 3/8" sheetrock.
 - Painting shall be supplied from Fuller Paint, Kelley-Moore or approved equal. Painting schedule shall be as follows:
- | Item (Exterior/Interior) | Primer | Finish | Color |
|------------------------------|---------|-----------------------|---------|
| Doors and Frames | 2 coats | zinc oxide | Thistle |
| Other metal, vents | 2 coats | zinc oxide | Green |
| Wood trim fascias | --- | 2 coats of flat latex | Black |
| Exposed rafters | --- | 2 coats of flat latex | Thistle |
| Exterior Douglas Fir plywood | --- | 2 coats of flat latex | Green |

PUMP NOTES:

- ALL CONSTRUCTION TO BE DONE IN CONFORMANCE WITH THE PROVISIONS OF SAN JOAQUIN COUNTY ORDINANCE NO. 1862 AND WATER WELL STANDARDS, STATE OF CALIFORNIA, BULLETIN NO. 75, AND COUNTY OF SAN JOAQUIN'S DEPARTMENT OF PUBLIC WORKS, DEPARTMENT OF ENVIRONMENTAL HEALTH.
- WELL LOCATIONS TO BE AS SHOWN ON SHEETS 6 & 7.
- SIZE OF CASING AS SHOWN IS ESTIMATED FOR BID COMPARISON ONLY. FINAL SIZE WILL BE DEPENDENT UPON WELL LOG INFORMATION OBTAINED.
- ALL DEPTHS AS SHOWN ARE ESTIMATED FOR BID COMPARISONS ONLY. ULTIMATE DEPTHS AND SETTINGS WILL BE FINALIZED AFTER DATA OBTAINED FROM WELL LOG INFORMATION.
- PUMP SUPPLIER TO FURNISH SHOP DRAWINGS FOR APPROVAL BY ENGINEER.
- PUMP SUPPLIER TO FURNISH PUMP PERFORMANCE CURVES, SHOWING PUMP TOTAL HEAD, PUMP INPUT HORSEPOWER AND PUMP EFFICIENCY WHEN PUMPING AT DESIGNATED CHARACTERISTICS.

WELL SPECIFICATION:

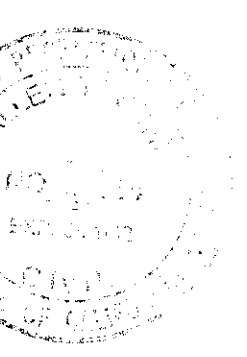
DEEPWELL PUMP MOTOR
THE MOTOR SHALL BE FULL VOLTAGE, VERTICAL HOLLOW SHAFT SQUIRREL-CAGE INDUCTION TYPE, 3 PHASE, 480 VOLT, 60 HZ, 1,770 R.P.M. AND SHALL COMPLY WITH APPLICABLE STANDARDS OF NEMA, IEEE, ANSI, AIEE AND THE NEC AS WELL AS BEING APPROVED BY UL FOR THE SPECIFIED SERVICE.
THE MOTOR SHALL BE IN A DRIP-PROOF ENCLOSURE SIZED AS PER NEMA STANDARDS. THE MOTOR SHALL HAVE A CAST IRON FRAME AND BEARING HOUSINGS.
GUIDE AND THRUST BEARINGS SHALL BE SHIELDED, REGREASABLE, VACUUM, DEGAUSED STEEL BALL-BEARING TYPE, SPECIALLY SELECTED FOR ELECTRIC MOTOR SERVICE.
THE THRUST BEARINGS SHALL BE OF AMPLIFIED CAPACITY TO CARRY THE WEIGHT OF ALL ROTATING PARTS, PLUS HYDRAULIC DOWN THRUST. THE BEARING SHALL BE OF SUCH SIZE THAT THE LIFE RATING IS NO LESS THAN 5 YEARS OF OPERATION AT 24 HOURS PER DAY. THE MOTOR SHALL HAVE ALL NECESSARY HARDWARE, NAME PLATE, AND BE PAINTED WITH AN ALKID TYPE ENAMEL.
THE MOTOR SHALL HAVE ALL COPPER WINDINGS WITH CLASS F INSULATION CLASS B RISE, 1.15 SERVICE FACTOR. THE MOTOR SHALL BE OF PROPER SIZE TO DRIVE THE PUMP CONTINUOUSLY ON THE COMPLETE HEAD CAPACITY RANGE WITHOUT THE LOAD EXCEEDING THE SERVICE FACTOR. THE MOTOR SHALL BE 60 HP. MINIMUM. THE MOTOR SHALL HAVE A MAXIMUM KVA CODE OF F. THE MOTOR SHALL BE OF HIGH EFFICIENCY DESIGN WITH A MINIMUM RATING OF .93 AT FULL LOAD.

- VERTICAL DEEP WELL TURBINE PUMPS**
VERTICAL DEEP WELL TURBINE PUMPS SHALL BE WATER LUBRICATED FLOWAY DKM OR EQUAL CAPABLE OF MEETING THE FOLLOWING DESIGN CONDITIONS AND REQUIRED PERFORMANCE.
- THE FOLLOWING ARE THE DESIGN CONDITIONS UNDER WHICH THE PUMP WILL OPERATE:
 - WELL SIZE: 14 INCH DIAMETER
 - WELL DEPTH: 250 FEET
 - STANDING WATER LEVEL: 60' - 80 FEET
 - PUMPING WATER LEVEL: 120' + FEET
 - DEPTH TO FIRST PERFORATION: 150' + FEET
 - PUMP DISCHARGE INTO DISTRIBUTION SYSTEM @ 67 P.S.I. MINIMUM
 - PUMP SETTING - 150 FEET TO BOTTOM OF PUMP
 - PUMP BOWL SIZE - 10 INCHES
 - NO. OF STAGES - 8 MIN.
 - ELECTRIC MOTOR SIZE - 60 H.P.

THE CONTRACTOR AND THE PUMP SUPPLIER SHALL GUARANTEE THE PERFORMANCE OF THE PUMP AS SPECIFIED HEREIN AND SHALL FURNISH A CERTIFIED PUMP CURVE.

REQUIRED PERFORMANCE: THE PUMP SHALL BE CAPABLE OF MEETING OR EXCEEDING THE DESIGN CONDITIONS. THE TOTAL PUMPING HEAD SHALL INCLUDE LOSSES THROUGH THE PUMP, COLUMN, DISCHARGE HEAD, ETC. THE MINIMUM OVERALL PLANT EFFICIENCY SHALL EXCEED 70% IN PLACE, AND SHALL BE DEMONSTRATED PRIOR TO ACCEPTANCE OF THE WORK. ALL THINGS BEING EQUAL, CONSIDERATION WILL BE GIVEN TO ENERGY CONSERVATION AND REDUCTION OF OVERALL PUMPING COSTS.

- DEEP WELL CASING AND SCREENS**
A. Inner casings and screens shall be copper bearing corrosion resistant ASTM A-199-74 Grade B.
B. All screens shall be Rascoe Moss "Full Flow" shutter screen with 1/8" openings (.0625") or equal.
C. Screen design to be submitted to the County Engineer, by the Contractor, for approval after the test well log is completed and prior to drilling the wells.



CONSTRUCTION STAKING LIABILITY WAIVER

THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF, HOWEVER, ANOTHER ENGINEERING AND/OR SURVEYING FIRM SHOULD BE EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF MID-VALLEY ENGINEERING, INC. HAD PERFORMED THE STAKING WORK.



P.O. BOX 816 900 H STREET, SUITE G
MODESTO CALIFORNIA 95353 (209) 526-4214

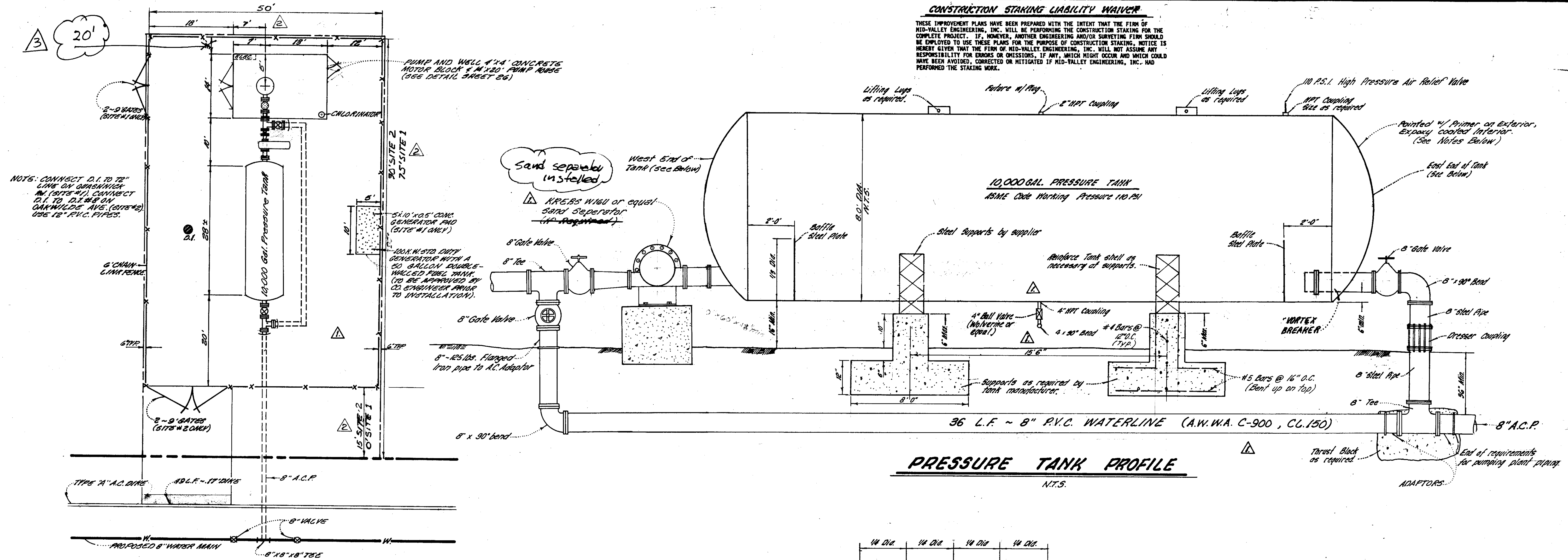
ENGINEERING & SURVEYING PLANNING ZONING

WELL PROFILES AND DETAILS
MORADA ESTATES NORTH
SAN JOAQUIN COUNTY

Drawn: MILLER	ROY A. GALLI R.C.E. 16024	DATE: 3-1-89	JIMMY G. BATEMAN L.S. 4685
Scale: As Noted	AL Galli 7/1/89	Job No. 60,819	Sheet 26 of 28
Checked: [Signature]	6/12/89 no revisions	Revisions:	
File No.			

CONSTRUCTION STAKING LIABILITY WAIVER

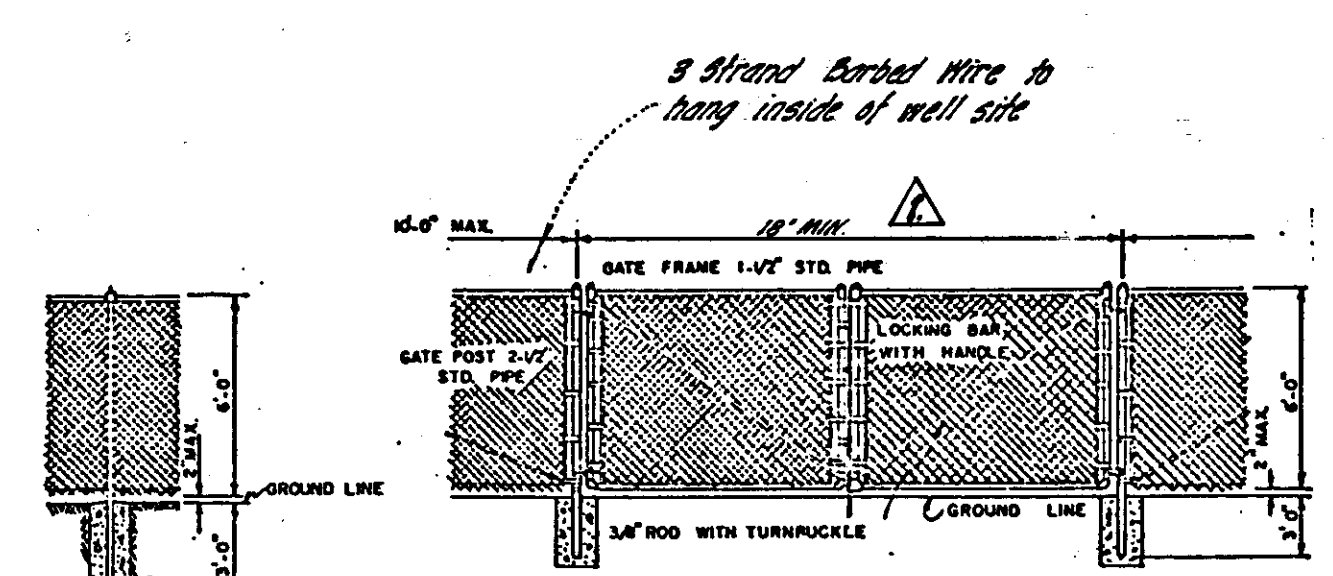
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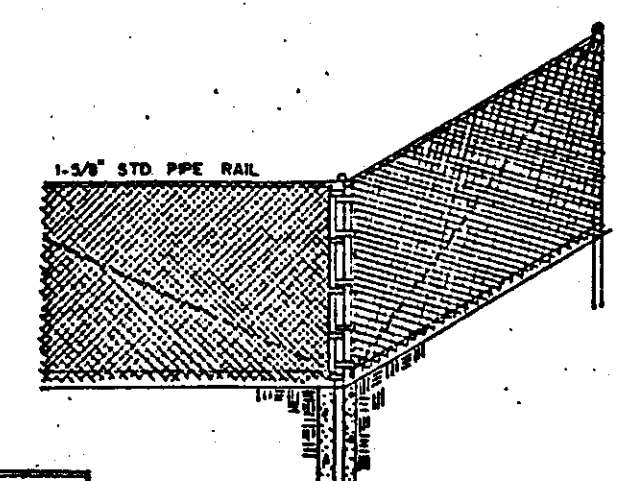
PRESSURE TANK PROFILE

TYPICAL (2 SITES)
PRESSURE TANK & PUMP SITE PLAN
SCALE: 1" = 10'

- GENERAL NOTES
- TANK - Hydro-pneumatic System
1. Tank to be of size and shape as shown on plans with a capacity of 12,000 gallons.
 2. Construction of the tank to be in accordance with the current ASME Code. Tank requires Code stamp.
 3. Working pressure to be 100 psi.
 4. All steel in shell and head shall conform to ASTM Specifications.
 5. Tank shall contain site glass, relief apparatus, manhole and other appurtenances as shown on the plans.
 6. Tank interior to be thoroughly clean of rust, scale and grease.
 7. Interior to be epoxy coated (A.W.W.A. System 7) time for drying between coats.
 8. Exterior to be cleaned and factory painted at time of construction with one (1) coat zinc primer.
 9. After installation, paint with two (2) coats Interol #5504 silver as specified by District Superintendent.
 10. Support tank with steel legs as shown.
 11. Concrete for footing to be Class "B", 2500 psi min. as specified in Section 90 of the State Standard Specifications.
 12. All piping above grade to be steel pipe schedule 40 welded and seamless. Paint to be same as tank exterior.
 13. All fittings, valves, flanges shall be AWWA, 125 psi working pressure.
 14. Contractor to submit shop drawing for compliance with these specifications and for the approval of the Engineer and District Representative.



TYPICAL FENCE POST



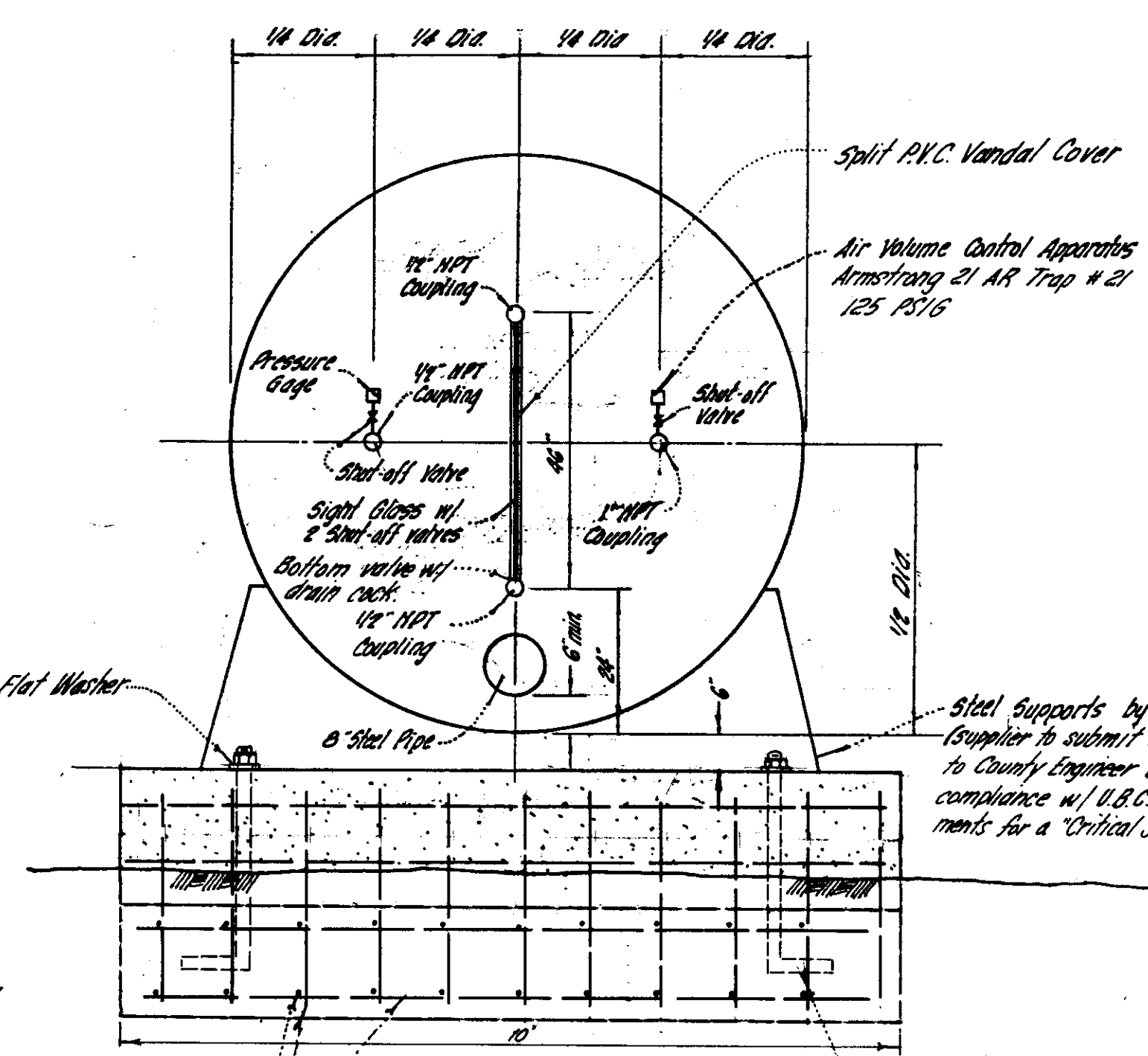
TYPICAL CORNER POST

CHAIN LINK FENCE DETAIL

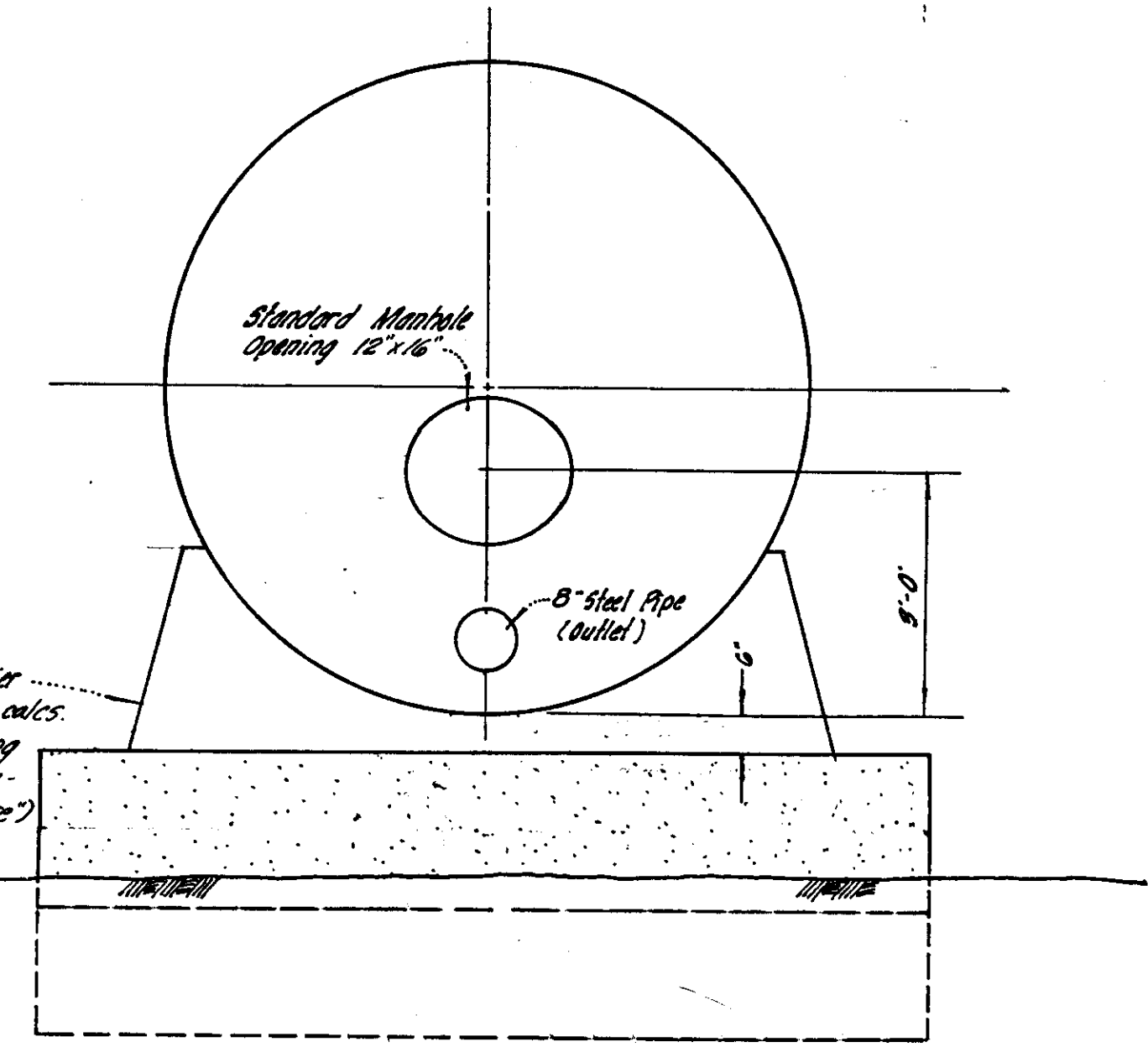
NO SCALE

GENERAL NOTES

- FABRIC - Chain link wire, zinc coated, no 9 gage woven in a 3-1/2" x 5-1/2" mesh.
- POST - Corner post to be 2-3/8" O.D. Gate post to be 2-7/8" O.D. Line post to be 1-7/8" O.D.
- RAIL - Top rail to be 1-5/8" O.D.
- WIRE - 7 gage coil spring bottom tension wire.
- SLATS - REDWOOD.
- Post to spaced at 10'-0" centers.
- Post to be placed in 36"x8" Dia hole filled with concrete.



WEST VIEW



EAST VIEW

Approved by the Director of Public Works,
County of San Joaquin, California.

AS-BUILT PLAN REVISIONS

BY: [Signature]	DATE: 12-18-89
RCE 16024	
ADDED DIMS TO PUMP SITE	
PLAN	
Well 25' From R.	

MID VALLEY ENGINEERING

MODESTO, CALIFORNIA (209) 526-4214

PLANNING AND ZONING
CIVIL ENGINEERING
LAND SURVEYING

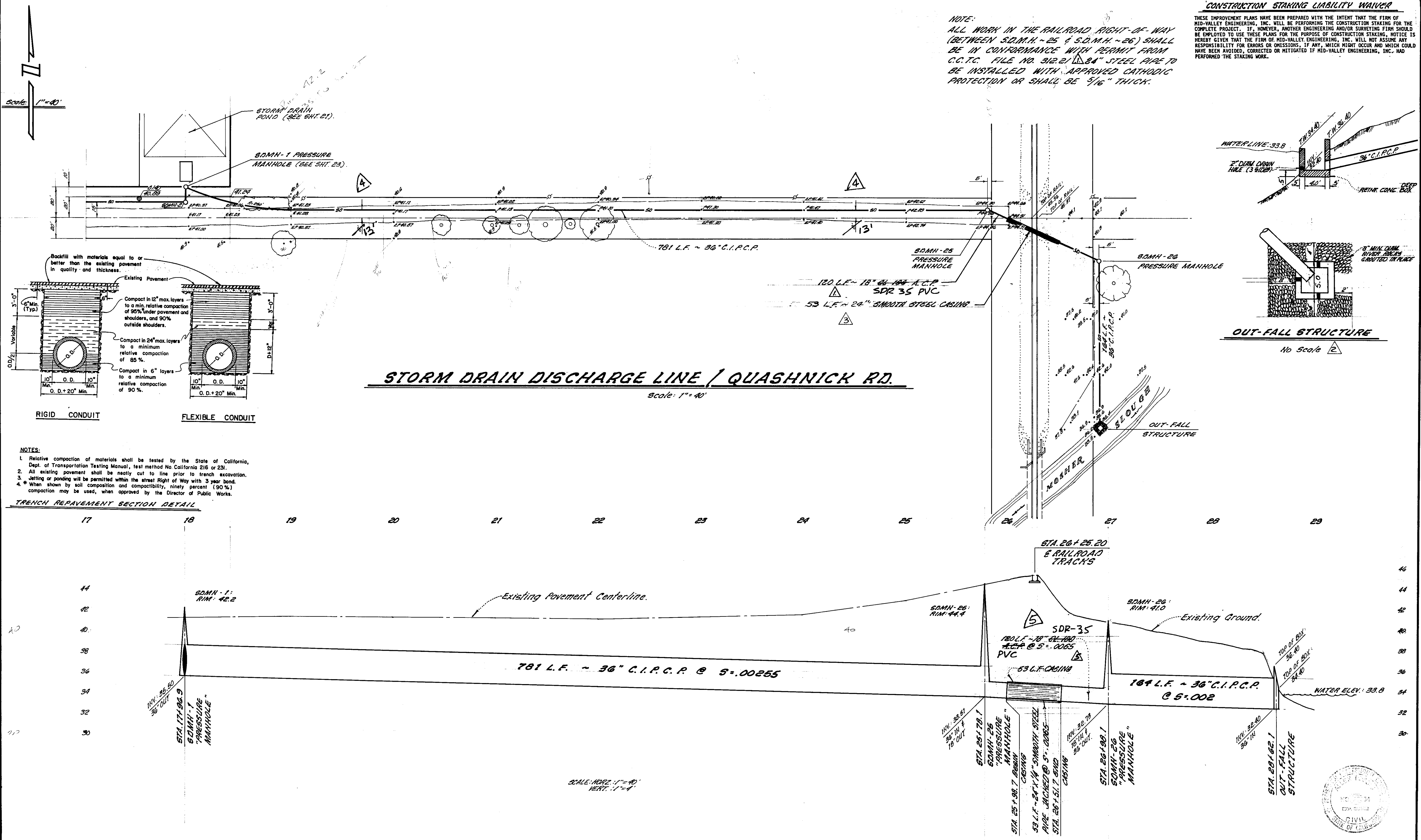
PRESSURE TANK & WELL SITE

MORADA ESTATES NORTH

SAN JOAQUIN COUNTY

Drawn: MILLER	ROY A. GALLI R.C.E. 16024	SHEET 25 OF 28
Date: 8-1-88	[Signature] 7/1/88	
Scale: As Shown	REVISIONS	
Job No. 201,044	Symbol Description	
Checked: [Signature]	File No.	

SV-2079

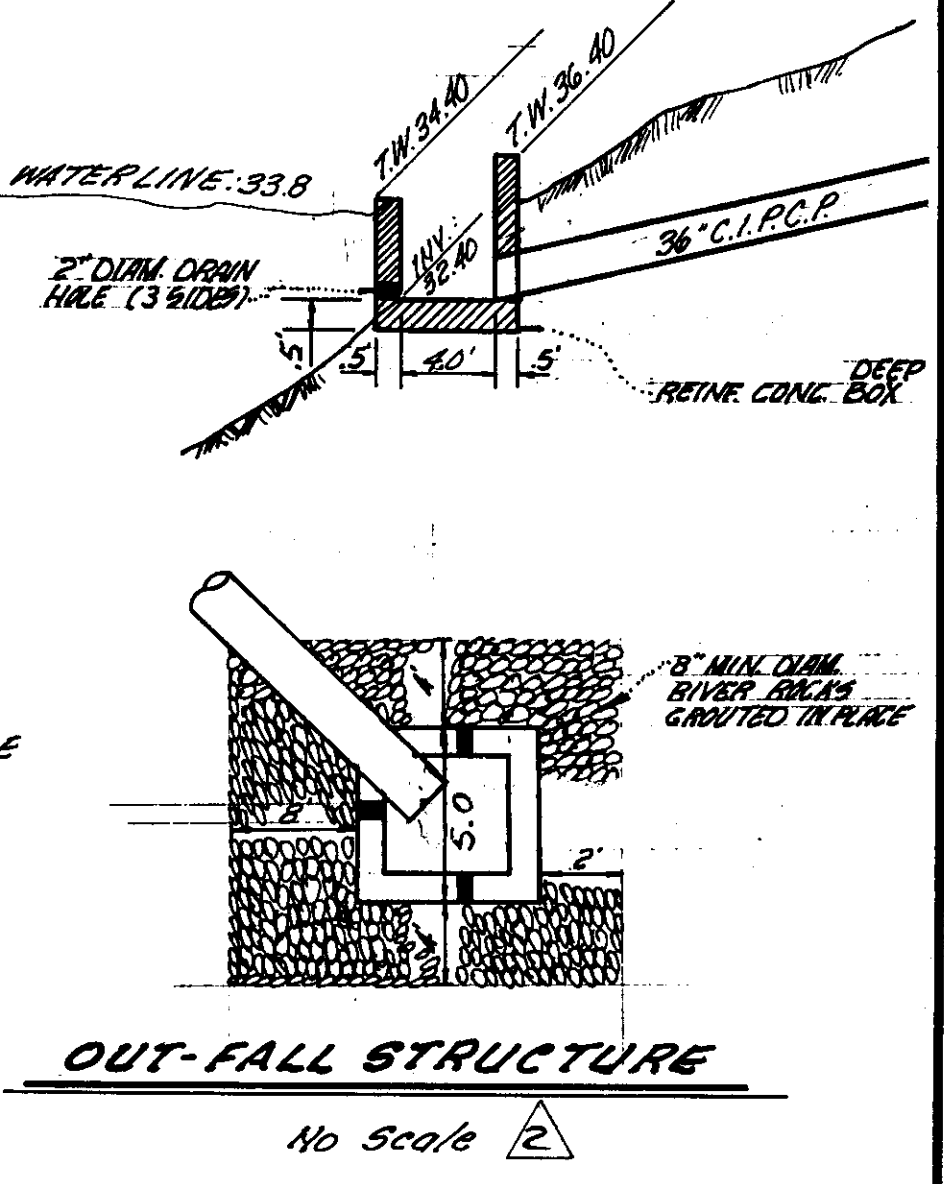
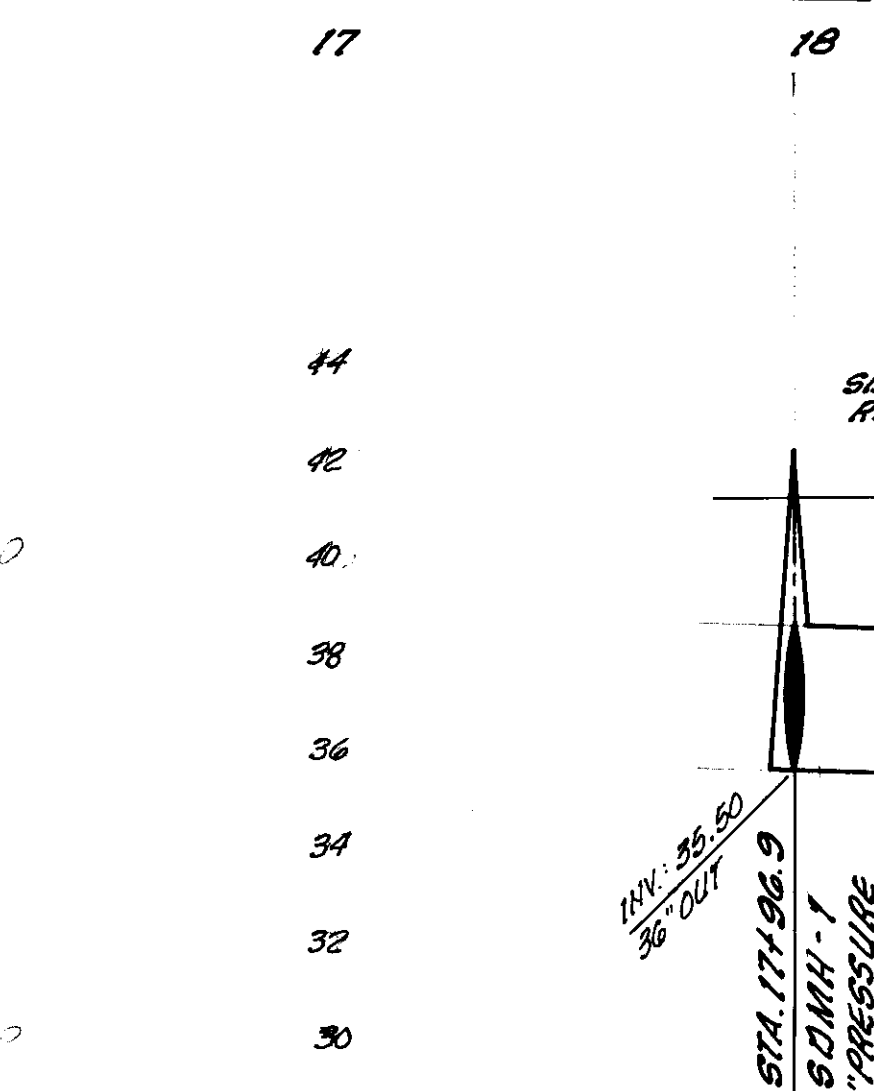


NOTE:
ALL WORK IN THE RAILROAD RIGHT-OF-WAY (BETWEEN S.D.M.H. ~ 25 & S.D.M.H. ~ 26) SHALL BE IN CONFORMANCE WITH PERMIT FROM C.C.T.C. FILE NO. 312.21. 24" STEEL PIPE TO BE INSTALLED WITH APPROVED CATHODIC PROTECTION OR SHALL BE 3/16" THICK.

CONSTRUCTION STAKING LIABILITY WAIVER
THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF, HOWEVER, ANOTHER ENGINEERING AND/OR SURVEYING FIRM SHOULD BE EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF MID-VALLEY ENGINEERING, INC. HAD PERFORMED THE STAKING WORK.

- NOTES:
1. Relative compaction 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 compaction, ninety percent (90%) compaction may be used, when approved by the Director of Public Works.

TRENCH REPARATION SECTION DETAIL



AS-BUILT PLAN REVISIONS
BY Jim A. Galli DATE 12-18-89
RCE 16024
REV. FALL-OUT DETAIL
REV. 1/4" DIM FROM 24" PIPE & LENGTHEN
PIPE DWG TO TRUE LGTH.
ST. DRN LINE MOVED TO 13' N of &
material change in R/R KING PIPE

Approved by the Director of Public Works,
County of San Joaquin, California.
Date: _____
By: _____

mid-valley engineering
ENGINEERING & SURVEYING PLANNING & ZONING
P.O. BOX 816 900 H STREET, SUITE G
MODESTO CALIFORNIA 95353 (209) 526-4214

PLAN AND PROFILE
STORM DRAIN DISCHARGE LINE / QUASHNICK RD.
MORADA ESTATES NORTH
SAN JOAQUIN COUNTY

Drawn: MILLER	ROY A. GALLI R.C.E. 16024	REFER TO: Modesto Office
Date: 3-1-88	JIMMY G. BATEMAN L.S. 4685	SHEET
Scale: As Noted	<u>W. Sordi</u> 7/1/88	24
Job No. 50,819	Revisions	OF 28
Checked: <u>W. Sordi</u>	Rev. Date Description Appd.	
File No.	1. 6/2/88 CH. RETAINMENT	

STORM DRAIN LIFT STATION SPECIFICATIONS:

GENERAL

THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO CONSTRUCT A FULLY OPERATIONAL STORM DRAINAGE LIFT STATION AS SHOWN ON THESE PLANS. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE COUNTY OF SAN JOAQUIN'S DEPARTMENT OF PUBLIC WORKS, DEPARTMENT OF ENVIRONMENTAL HEALTH.

WHENEVER A MANUFACTURER'S OR TRADE NAME IS USED TO SPECIFY MATERIAL OR EQUIPMENT, IT SHALL BE UNDERSTOOD THAT SUCH TRADE NAME IS USED TO ESTABLISH A STANDARD OF QUALITY OR PERFORMANCE AND IS NOT INTENDED TO BE RESTRICTIVE. THE CONTRACTOR SHALL NOT, HOWEVER, FURNISH OR INSTALL ANY SUBSTITUTE MATERIALS OR ANY EQUIPMENT EXCEPT UPON WRITTEN ORDER OF THE ENGINEER. ANY COSTS INVOLVED OR STRUCTURAL CHANGES REQUIRED TO ALLOW THE USE OF SUCH SUBSTITUTE MATERIAL OR EQUIPMENT SHALL BE MADE AND THE COST THEREOF BORNE BY THE CONTRACTOR AND SHALL NOT BE THE BASIS FOR ANY CLAIM OR CLAIMS FOR EXTRA WORK OR COMPENSATION.

CONCRETE STRUCTURES

PORTLAND CEMENT CONCRETE SHALL CONFORM TO SECTION 90, "PORTLAND CEMENT CONCRETE", OF THE STANDARD SPECIFICATIONS. CLASS A CONCRETE SHALL BE USED FOR ALL STRUCTURES. IT SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 POUNDS PER SQUARE INCH IN 28 DAYS.

REINFORCEMENT SHALL CONFORM TO THE PROVISIONS OF SECTION 52, "REINFORCEMENT", OF THE STANDARD SPECIFICATIONS.

CONCRETE FORMS SHALL CONFORM TO THE PROVISIONS OF SECTION 51-1.05, "FORMS", OF THE STANDARD SPECIFICATIONS.

EXPOSED CONCRETE FINISH WORK SHALL COMPLY WITH THE PROVISIONS IN SECTION 51-1.18, "CLASS 1 SURFACE FINISH", OF THE STANDARD SPECIFICATIONS. FINISH WORK FOR UNDERGROUND STRUCTURES SHALL COMPLY WITH THE PROVISIONS IN SECTION 51-1.18, "ORDINARY SURFACE FINISH", OF THE STANDARD SPECIFICATIONS.

PUMPS

THE CONTRACTOR SHALL FURNISH AND INSTALL, AS SHOWN ON THE PLANS AND AS SPECIFIED HEREIN, (2) STORM DRAINAGE PUMPS. EACH PUMP SHALL BE A 1/2" MIXED FLOW 37" AS MANUFACTURED BY CASCADE PUMP CO., OR EQUAL, AND SHALL OPERATE SUCCESSFULLY AS SPECIFIED HEREIN:

A MINIMUM DISCHARGE OF 4,500 GPM THROUGH A RANGE OF BETWEEN 16' AND 30' T.D.H. A 47W "NUISANCE" PUMP SHALL OPERATE SUCCESSFULLY AS SPECIFIED HEREIN: A FULLY SUBMERSIBLE PUMP AND MOTOR CAPABLE OF A MINIMUM DISCHARGE OF 200 G.P.M. @ 22' T.D.H. ~~47W NUISANCE PUMP~~ (SEE SHEET NO. 23)

THE TOTAL DYNAMIC HEAD SHALL BE UNDERSTOOD TO MEAN THE SUM OF THE STATIC HEAD, HEAD LOSSES IN THE SUCTION BELL, PUMP, DISCHARGE COLUMN, DISCHARGE ELBOW, DISCHARGE PIPE AND DISCHARGE VELOCITY HEAD.

THE VERTICAL PUMP SUPPORTING COLUMN AND DISCHARGE ELBOW SHALL BE MADE OF 1/4" THICK WELDED PLATE STEEL. THE DISCHARGE OPENING SHALL BE A FLANGED TYPE COUPLING SUITABLE FOR CONNECTION TO THE DISCHARGE PIPE. THE DISCHARGE ELBOW SHALL BE OF THE LONG-SLEEP TYPE CONSISTING OF AT LEAST THREE SECTIONS AND SHALL BE BELOW GRADE DISCHARGE. ALL COLUMN FITTINGS SHALL BE FLANGED.

THE MOTOR MOUNTING STAND SHALL BE WELDED TO UPPER END OF DISCHARGE ELBOW AND SHALL BE OF SUFFICIENT SIZE AND WEIGHT TO ACCOMMODATE PROPER DRIVER.

THE PUMP MOUNTING PLATE SHALL BE WELDED TO DISCHARGE ELL AND SHALL BE OF SUFFICIENT SIZE AND THICKNESS TO SUPPORT THE FULL WEIGHT OF THE PUMP UNIT AND DRIVER PLUS THE WEIGHT OF THE LIQUID IN THE DISCHARGE COLUMN AND ELBOW PLUS THE HYDRAULIC DOWN THRUST.

THE SUCTION BELL AND PUMP BOWL SHALL BE MADE OF CLOSE-GRAINED CLASS 35 CAST IRON AND SHALL BE DESIGNED FOR EASY REMOVAL OF THE IMPELLERS AND BEARINGS. THE SUCTION BELL SHALL HAVE A FLARED INLET DESIGNED TO REDUCE ENTRANCE LOSSES AND A SUFFICIENT NUMBER OF VANES TO SUPPORT THE LOWER GUIDE BEARINGS AS WELL AS TO SUSTAIN THE WEIGHT OF THE IMPELLER AND PUMP SHAFT WHEN DISMANTLING THE PUMP.

THE PUMP PROPELLER SHALL BE OF CAST BRONZE, FREE OF SAND HOLES, BLOW HOLES OR OTHER IMPERFECTIONS. PROPELLER SHALL BE ACCURATELY MACHINED AND BALANCED TO INSURE VIBRATION FREE OPERATION. PROPELLER SHALL BE SECURELY FASTENED TO PUMP SHAFT TO PREVENT AXIAL MOVEMENT ON SHAFT.

THE SHAFT OF THE PUMPING UNIT SHALL BE 1 11/16" DIAMETER MINIMUM AND SHALL OPERATE WITHOUT OBJECTIONABLE DISTORTION OR VIBRATION AT ANY SPEED IN BOTH THE FORWARD AND REVERSE DIRECTION OF ROTATION. THE PUMP SHAFT SHALL BE MADE OF 416 STAINLESS STEEL, AND THE LINE SHAFT SHALL BE MADE OF C1045 CARBON OR ALLOY STEEL. THE SHAFT COUPLINGS SHALL BE MADE OF THE THREADED TYPE.

PROVISIONS SHALL BE MADE AT THE TOP OF THE MOTOR SHAFT FOR ADJUSTING THE ELEVATION OF THE IMPELLER WITH REFERENCE TO THE BOWL. SHAFT SHALL BE ENCLOSED IN INNER COLUMN OF PIPE TUBING AND SUPPORTED BY BRONZE COUPLING BEARINGS.

THE PUMP SHALL HAVE A BRONZE BEARING IMMEDIATELY ABOVE THE IMPELLER, AND A LOWER BRONZE BEARING BELOW THE IMPELLER.

THE LINE SHAFT BEARINGS SHALL BE OIL LUBRICATED AND PROTECTED FROM WATER AND FOREIGN MATTER. BYPASS PORTS TO DRAIN EXCESS OIL FROM THE SHAFT ENCLOSING TUBE SHALL BE PROVIDED ABOVE THE SEAL. ALL BEARINGS SHALL BE EASILY REPLACEABLE, AND SPACED NOT MORE THAN FIVE FEET APART.

THE PUMP SHALL BE OIL-LUBRICATED AND EQUIPPED WITH A SOLENOID OPERATED LUBRICATING SYSTEM WHICH SHALL SUPPLY LUBRICANT TO EACH LINESHAFT BEARING. THE SOLENOID-OPERATED OILER SHALL HAVE A METAL OIL RESERVOIR WITH A CAPACITY OF NOT LESS THAN ONE GALLON. THE SIZE OF THE SHAFT ENCLOSING TUBE SHALL BE IN ACCORDANCE WITH SHAFT SIZE PROVIDED.

THE MOTOR SHALL BE VERTICAL TYPE, 50 H.P. MINIMUM, 1,175 R.P.M. MOTOR SHALL BE OF SUFFICIENT SIZE TO DRIVE PUMP CONTINUOUSLY AT RATED HEAD AND CAPACITY REQUIREMENT OF PUMP INSTALLATION WITHOUT EXCEEDING THE NAME PLATE AMPS STATED ON MOTOR. MOTOR SHALL HAVE A THRUST BEARING AS AN INTEGRAL PART OF SUFFICIENT CAPACITY TO CARRY THE WEIGHT OF ALL ROTATING PARTS PLUS CONTINUOUS NORMAL OPERATION. **MOTORS SHALL BE NEMA TYPE 12 WITH CLASS F INSULATION AND A 1.25 SERVICE FACTOR.**

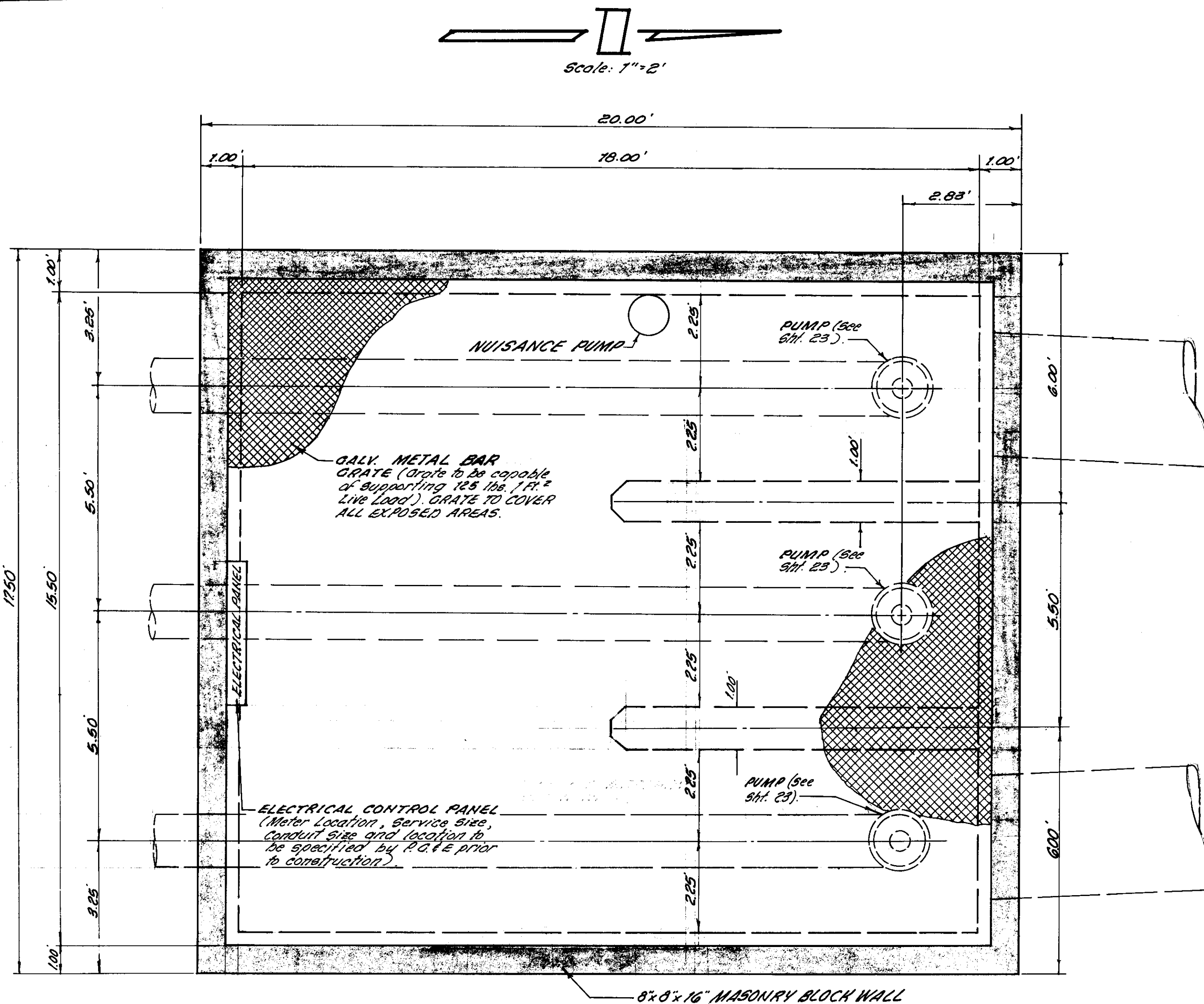
PROVIDE A DUPLEX PUMP PANEL FOR TWO (2) 50 HORSEPOWER, 3 PHASE, 480 VOLT, 60 HERTZ MOTORS AND ONE (1) PANEL BOARD SHALL CONTAIN PANEL WITH METER SOCKET, MAIN DISCONNECT SWITCH, 30 AMP FUSED DISCONNECT SWITCH FOR 110 VOLT SERVICE, AND DUPLEX PUMP PANEL WITH FLOAT CONTROLS. DUPLEX PUMP PANEL SHALL CONTAIN DISCONNECT SWITCHES, H-O-A SWITCHES, RESET BUTTON, MAGNETIC CONTACTORS, AND OVERLOAD CONTROLS FOR EACH PUMP. IT SHALL ALSO CONTAIN AN AUTOMATIC PUMP ALTERNATOR. THE PANEL ENCLOSURE SHALL BE N.E.M.A. 3R. THE LIQUID LEVEL CONTROLS SHALL BE ~~2500 LBS. PRESSURE OR EQUAL~~ **CONTROL SETTINGS TO BE SPECIFIED AS SHOWN ON THE DRAWINGS.**

GUARANTEE OF MATERIALS AND WORKMANSHIP

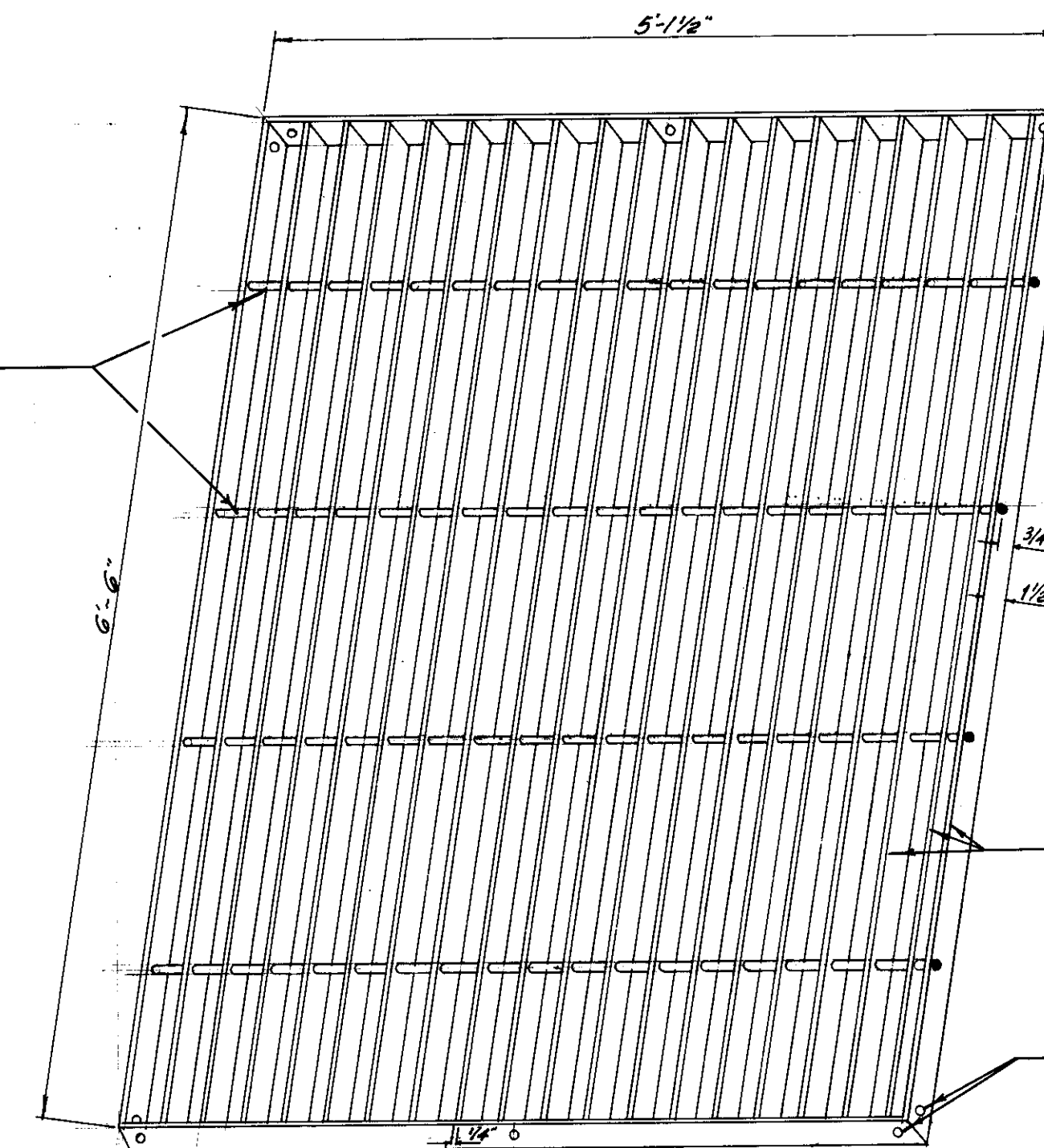
THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP OF THE INSTALLATION FOR A PERIOD OF ONE (1) YEAR. SHOULD ANY MATERIAL OR APPLIANCE OR ANY WORK DEVELOP A DEFECT OR WEARNESS DUE, IN THE OPINION OF THE ENGINEER, TO THE USE OF IMPERFECT MATERIALS, EQUIPMENT OR WORKMANSHIP, THE CONTRACTOR SHALL BE NOTIFIED AT ONCE AND HE SHALL IMMEDIATELY, AT HIS OWN EXPENSE, MAKE THE EFFECTIVE ITEM OR ITEMS SUITABLE AND SATISFACTORY.

WIRING:

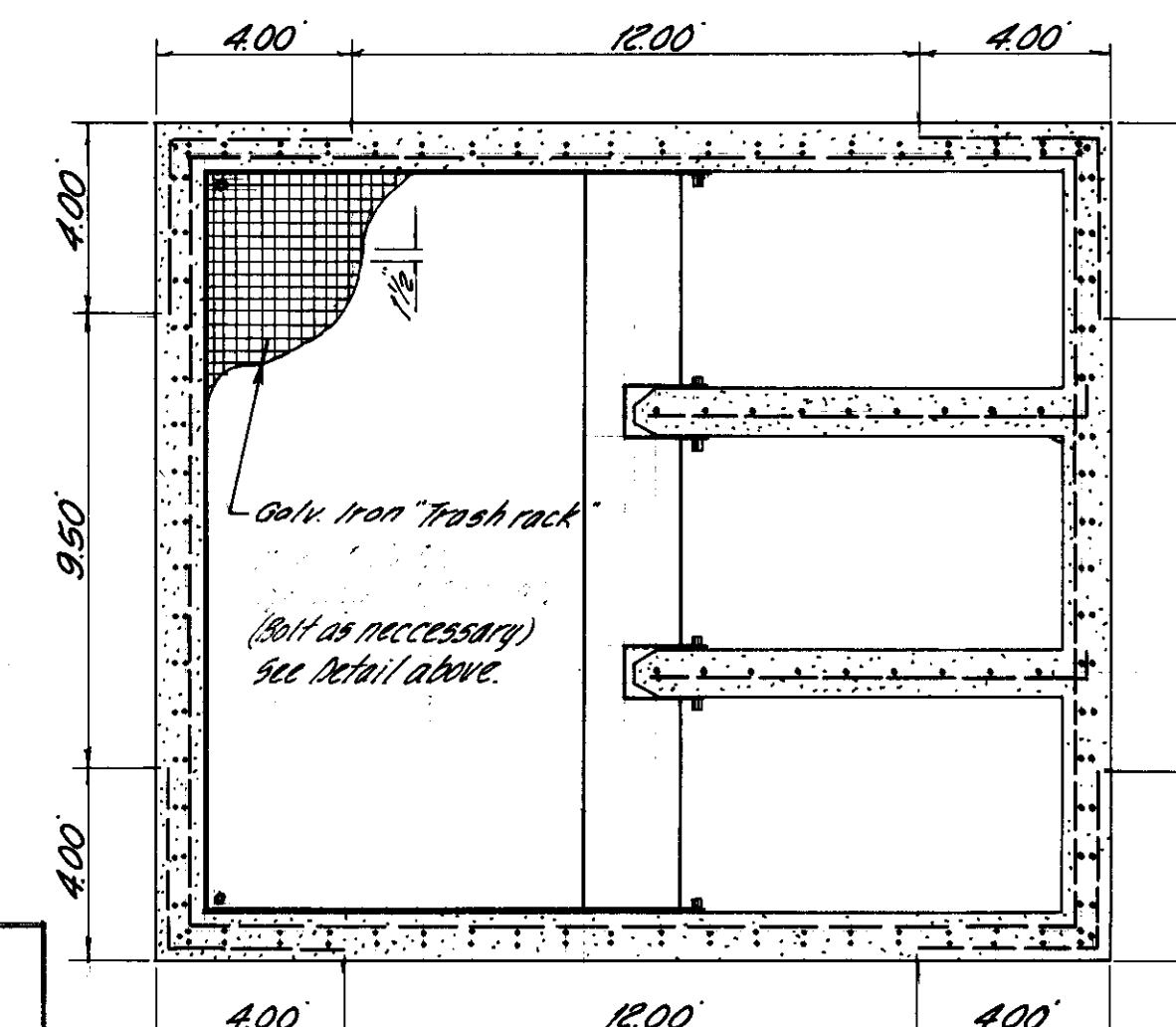
THE PUMP STATION SHALL BE COMPLETELY WIRED IN ACCORDANCE WITH THE PROVISIONS OF THE NATIONAL ELECTRICAL CODE. ALL WIRING IN THE PUMP STATION SHALL BE COLOR-CODED AS INDICATED ON THE WIRING DIAGRAM. ALL WIRING OUTSIDE THE PANEL SHALL BE IN CONDUIT, EXCEPT FOR 110 VOLT ACCESSORY ITEMS WHICH ARE PROVIDED WITH CONNECTING INSULATED SERVICE CORD BY THE MANUFACTURER.



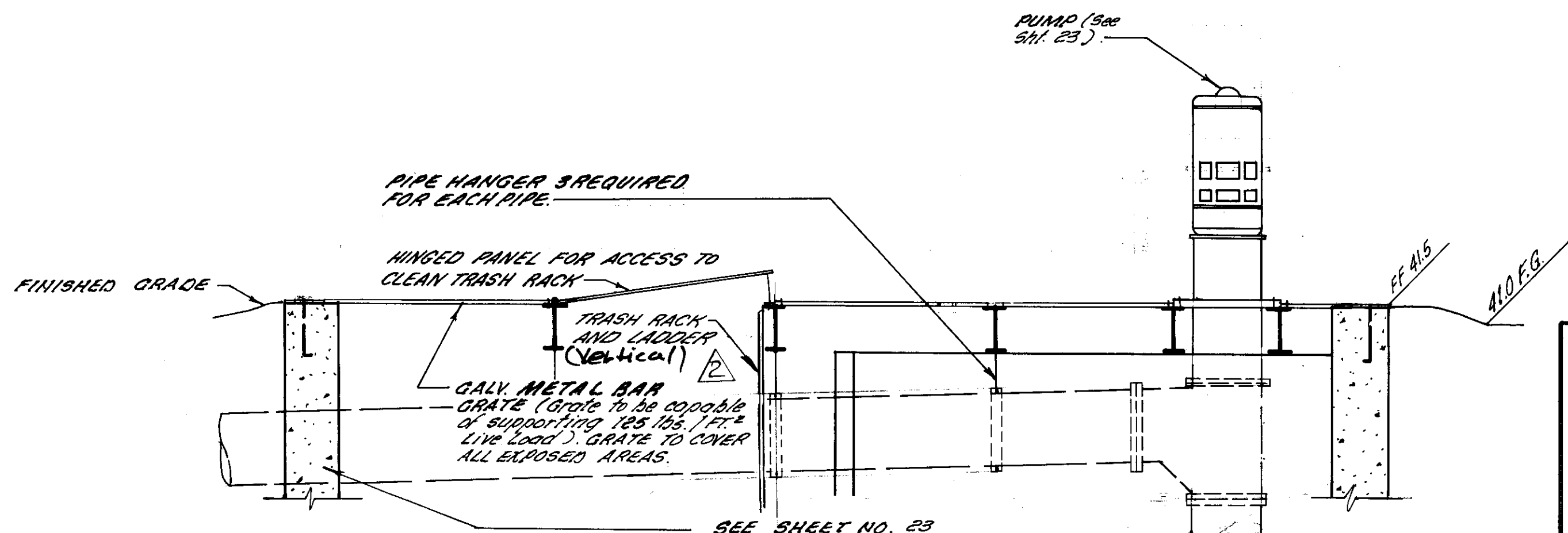
1/2" Dia. Galvanized Steel Bars @ 18" oc.



TRASH RACK - TYPICAL SECTION
Scale: 1" = 1'
(12 SECTIONS TOTAL)



SECTION "B-B"
Scale: 1" = 4'



AS-BUILT PLAN REVISIONS	
BY <i>Roy A. Galli</i>	DATE 12-18-89
RCE16024	
REV. TRASH RACK TO VERT. POS.	

Approved by the Director of Public Works,
County of San Joaquin, California.

By: _____
Date: _____

mid-valley engineering

P.O. BOX 816 900 H STREET, SUITE G
MODESTO CALIFORNIA 95353 (209) 526-4214

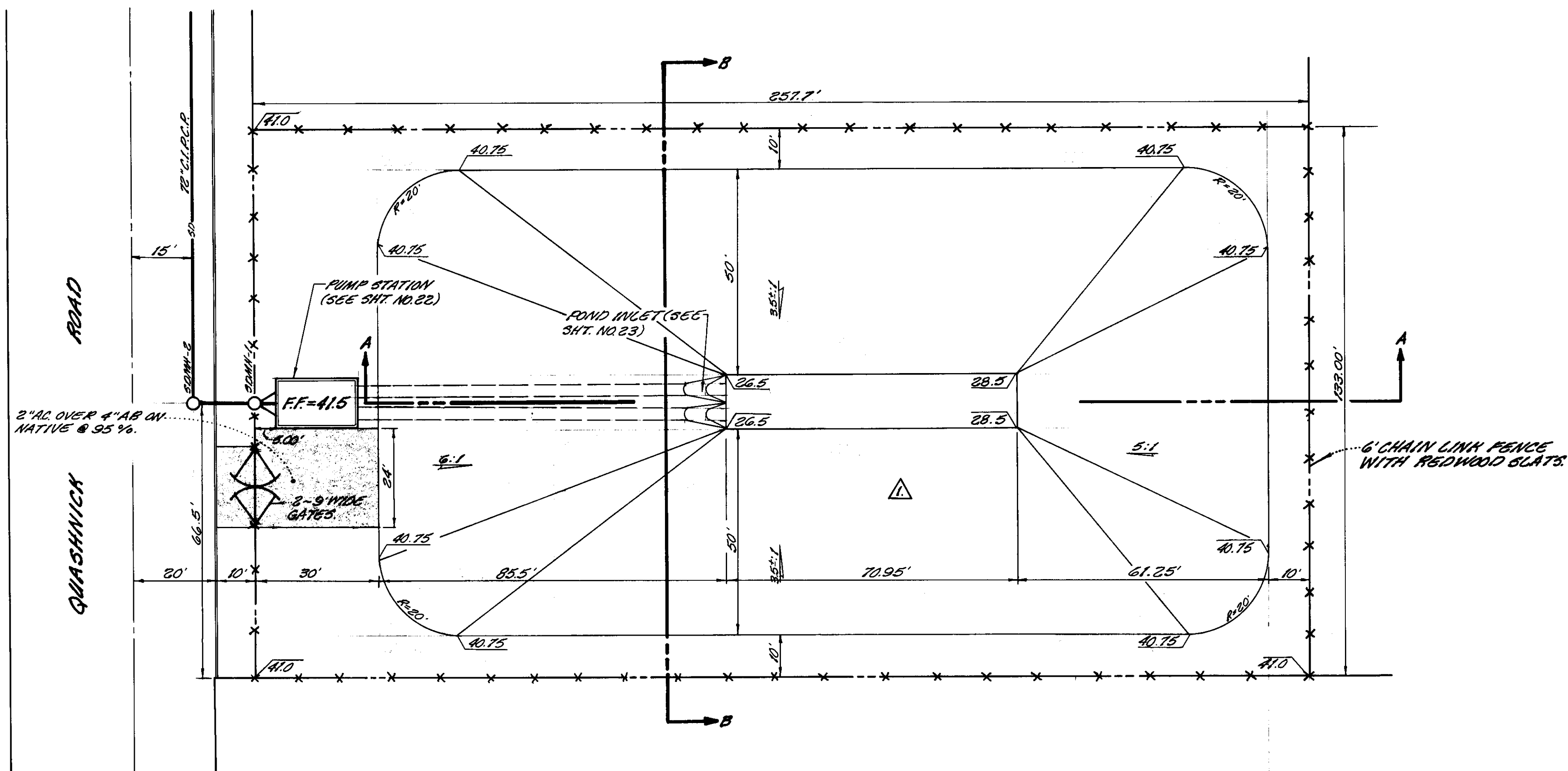
ENGINEERING & SURVEYING PLANNING & ZONING

PUMP STATION BUILDING PLAN
MORADA ESTATES NORTH
SAN JOAQUIN COUNTY

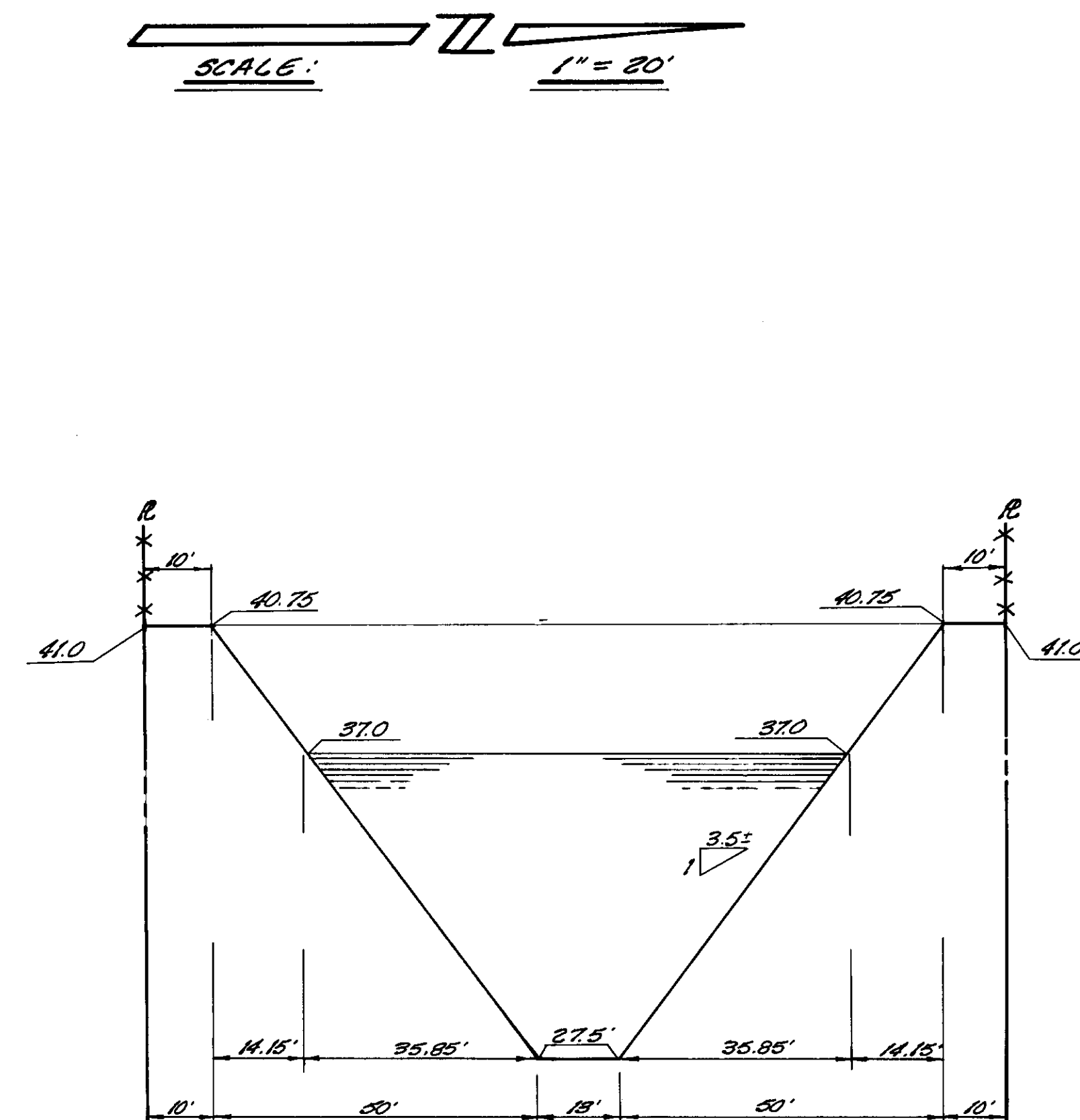
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Miller		5-1-88			
Scale: As Shown					
Job No. 50, 813					
Checked					
File No.					

22
OF 28

SV-2081



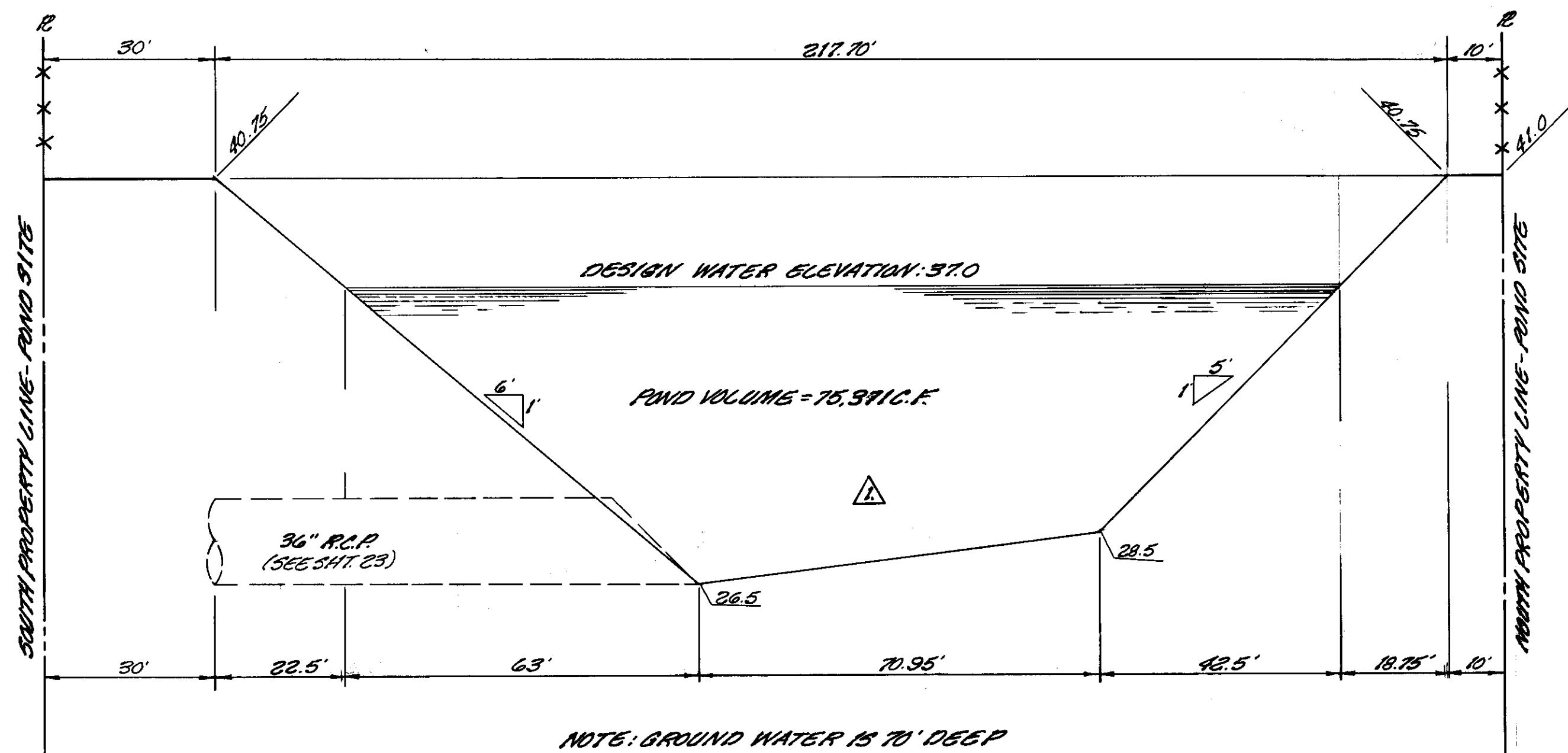
STORM DRAIN POND PLAN
SCALE: 1" = 20'



STORM DRAIN POND SECTION B-B

SCALE: HORIZ: 1" = 20', VERT: 1" = 4'

WATER SURFACE = 84.7' X 176.45' = 14,945 S.F.
BOTTOM SURFACE = 13.0' X 70.95' = 922 S.F.



STORM DRAIN POND SECTION A-A

SCALE: HORIZ: 1" = 20', VERT: 1" = 4'

WATER SURFACE = 176.45' Δ
BOTTOM SURFACE = 70.95'
AVERAGE DEPTH = 9.5'

POND CAPACITY
 $V = 14,945 + 922 \times 9.5 = 75,311 \text{ C.F.}$ Δ
REQUIRED CAPACITY = 44,000 C.F.±

CONSTRUCTION STAKING LIABILITY WAIVER

THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF, HOWEVER, ANOTHER ENGINEERING AND/OR SURVEYING FIRM SHOULD BE EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF MID-VALLEY ENGINEERING, INC. HAD PERFORMED THE STAKING WORK.

AS-BUILT PLAN REVISIONS
BY: ROY A. GALLI DATE: 12-18-89
RCE 16024
BUILT AS SHOWN - THIS SHT.

APPROVED BY THE DIRECTOR OF PUBLIC WORKS, COUNTY OF SAN JOAQUIN, CALIFORNIA.

BY: _____

mid-valley engineering

P.O. BOX 816 900 H STREET, SUITE G
MODESTO CALIFORNIA 95353

ENGINEERING & SURVEYING PLANNING & ZONING

(209) 526-4214

STORM DRAIN POND PLAN
MORADA ESTATES NORTH
SAN JOAQUIN COUNTY

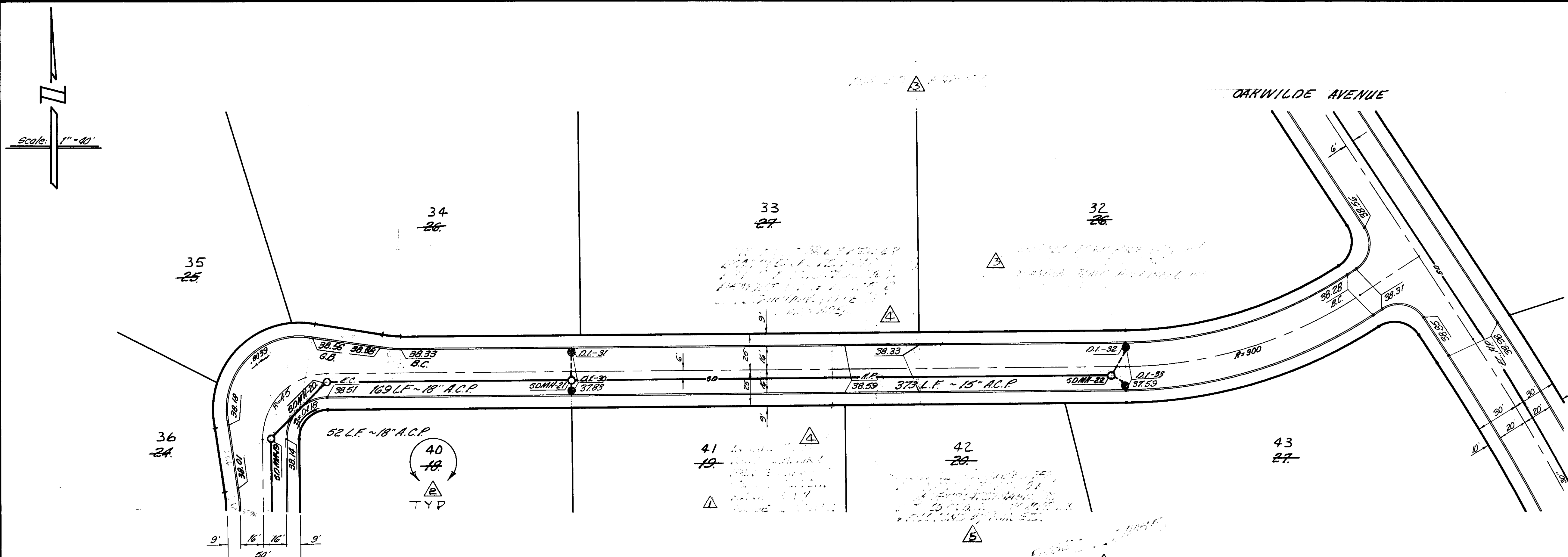
Drawn: <u>HARWOOD</u>	ROY A. GALLI RCE 16024	DATE: <u>5-24-88</u>	JIMMY G. BATEMAN L.S. 4485
Scale: <u>As Noted</u>	<u>AS NOTED</u>	Job No. <u>50,813</u>	File No. _____
Checked: _____	REVISIONS	DATE	DESCRIPTION
	1	6/20/89	CO. REVISIONS
REFER TO: Modesto Office	SHEET	21	OF 28

SV-2082

SU-2083

CONSTRUCTION STAKING LIABILITY WAIVER

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LA MIRADA WAY

Scale: 1" = 40'

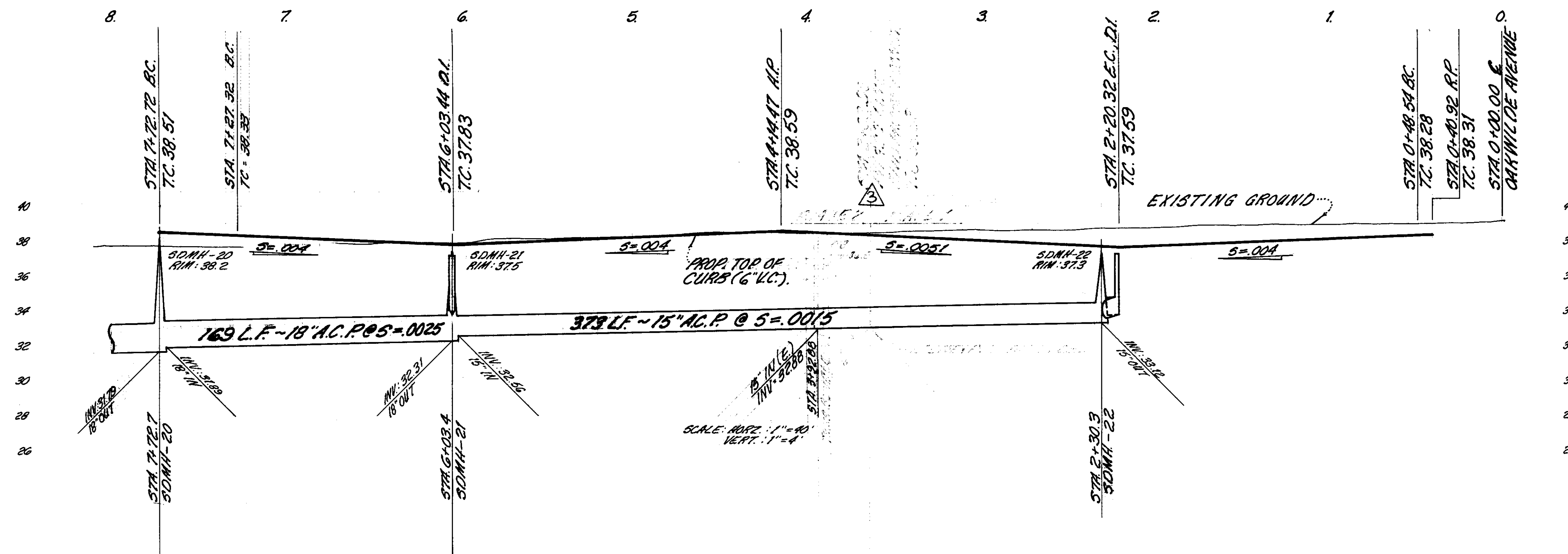
ESCONDIDO PLACE

DRAIN INLET - 31:
INV @ D.I.: 34.05
22 L.F. ~ 12" A.C.P.
@ 5 = 01
INV @ 50MM: 33.83

DRAIN INLET - 30:
INV @ D.I.: 34.05
10 L.F. ~ 12" A.C.P.
@ 5 = 01
INV @ 50MM: 33.95

DRAIN INLET - 32:
INV @ D.I.: 33.81
26 L.F. ~ 12" A.C.P.
@ 5 = 01
INV @ 50MM: 33.55

DRAIN INLET - 33:
INV @ D.I.: 33.81
12 L.F. ~ 12" A.C.P.
@ 5 = 01
INV @ 50MM: 33.69



AS-BUILT PLAN REVISIONS

BY Laura J. Lee DATE 12-19-89
RCE 16024

△	REV. LOT NO.'S
△	REM. PHASE LINE & NOTES
△	REM. BARRICADE & HDBD & C.I. FENCE
△	REM. TEMP. RET. POND & BUDDLEUP C.B.

Approved by the Director of Public Works,
County of San Joaquin, California.

By: _____



P.O. BOX 816 900 H STREET, SUITE G
MODESTO CALIFORNIA 95353 (209) 526-4214

ENGINEERING
&
SURVEYING
PLANNING
&
ZONING

PLAN AND PROFILE
LA MIRADA WAY
MORADA ESTATES NORTH
SAN JOAQUIN COUNTY

HARWOOD		ROY A. GALLI	RCE 16024
Drawn: MILLER		JIMMY G. BATEMAN	L.S. 4685
Date: 5-1-89		7/1/89	
Scale: AS NOTED		REVISIONS	
Job No. 80,813		Sym.	Date
Checked		△	6-20-88
File No.		Description	Appd.
		CO. REVISIONS	

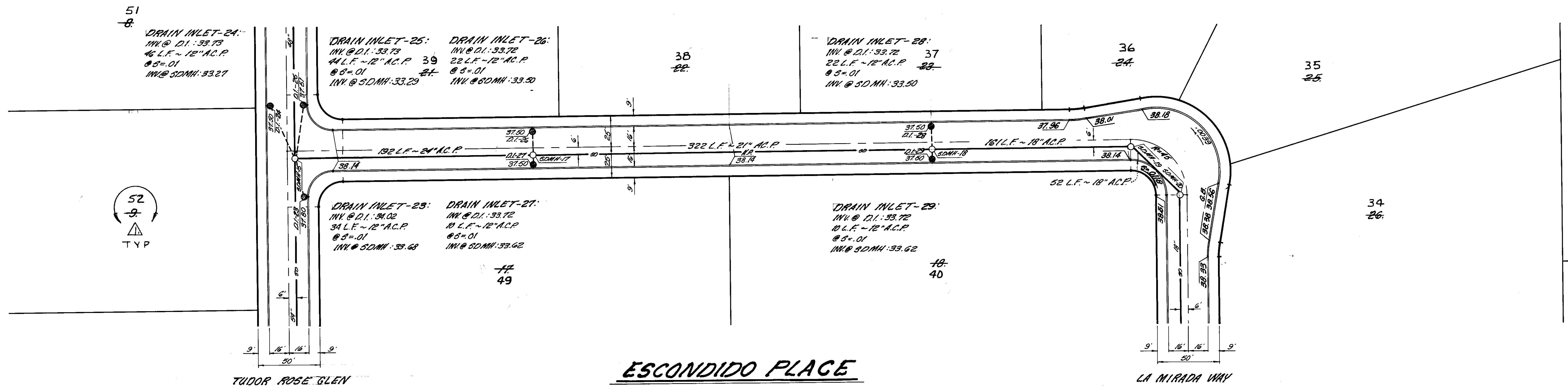
REFER TO:
Modesto Office

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OF
28

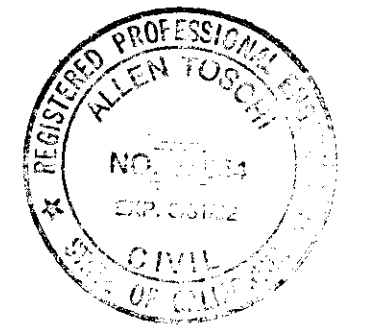
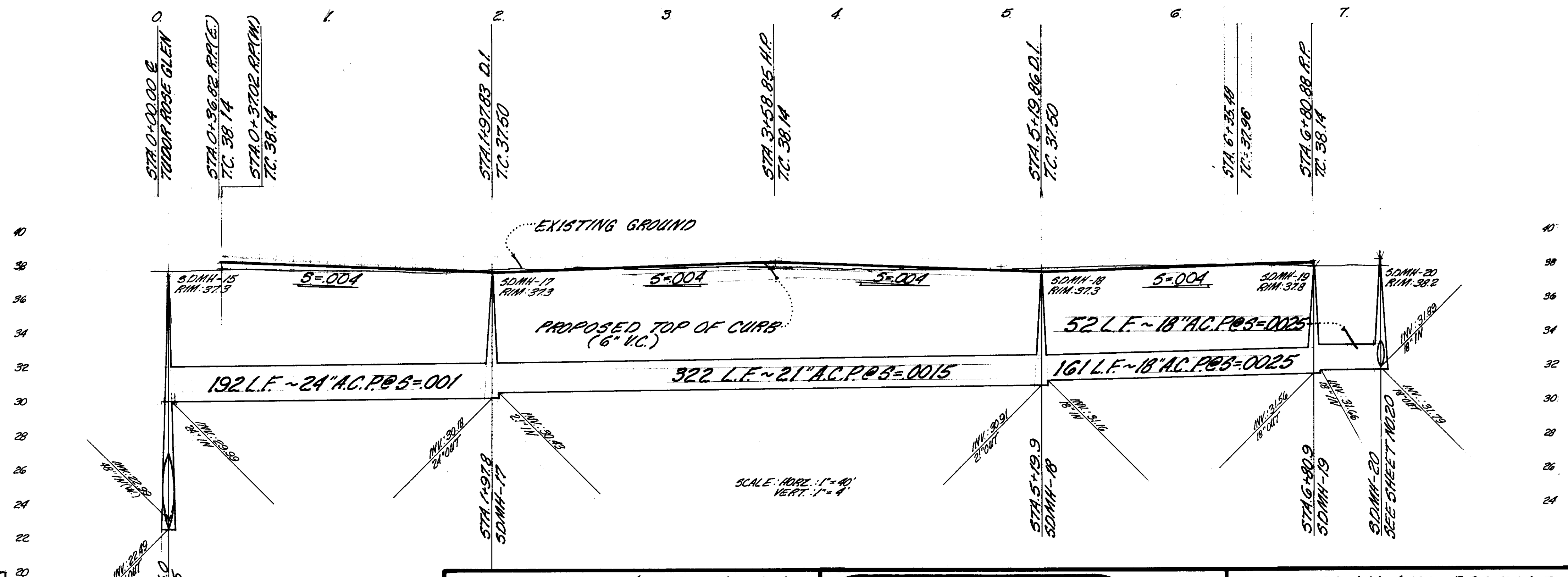
CONSTRUCTION STAKING LIABILITY WAIVER

THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF, HOWEVER, ANOTHER ENGINEERING AND/OR SURVEYING FIRM SHOULD BE EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF MID-VALLEY ENGINEERING, INC. HAD PERFORMED THE STAKING WORK.

Scale: 1"=40'



ESCONDIDO PLACE
Scale: 1"=40'



AS-BUILT PLAN REVISIONS

BY: Roy A. Galli	DATE: 12-18-89
RCB 16024	
REVISE LOT NO'S	
▲	
▲	
▲	

Approved by the Director of Public Works,
County of San Joaquin, California.

Date: _____

By: _____

mid-valley engineering

ENGINEERING & SURVEYING PLANNING & ZONING

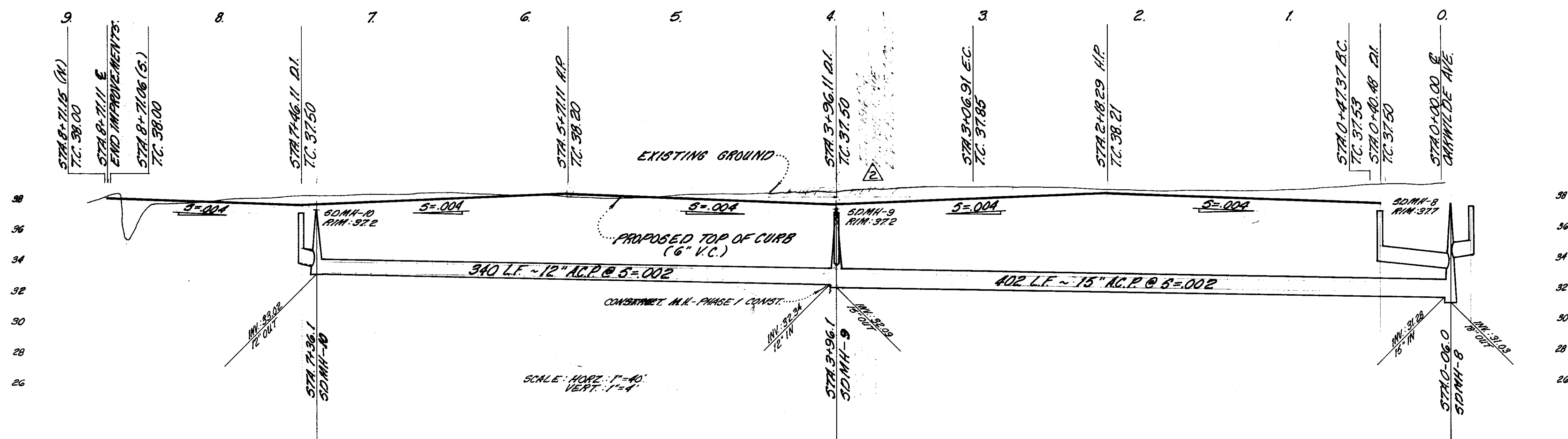
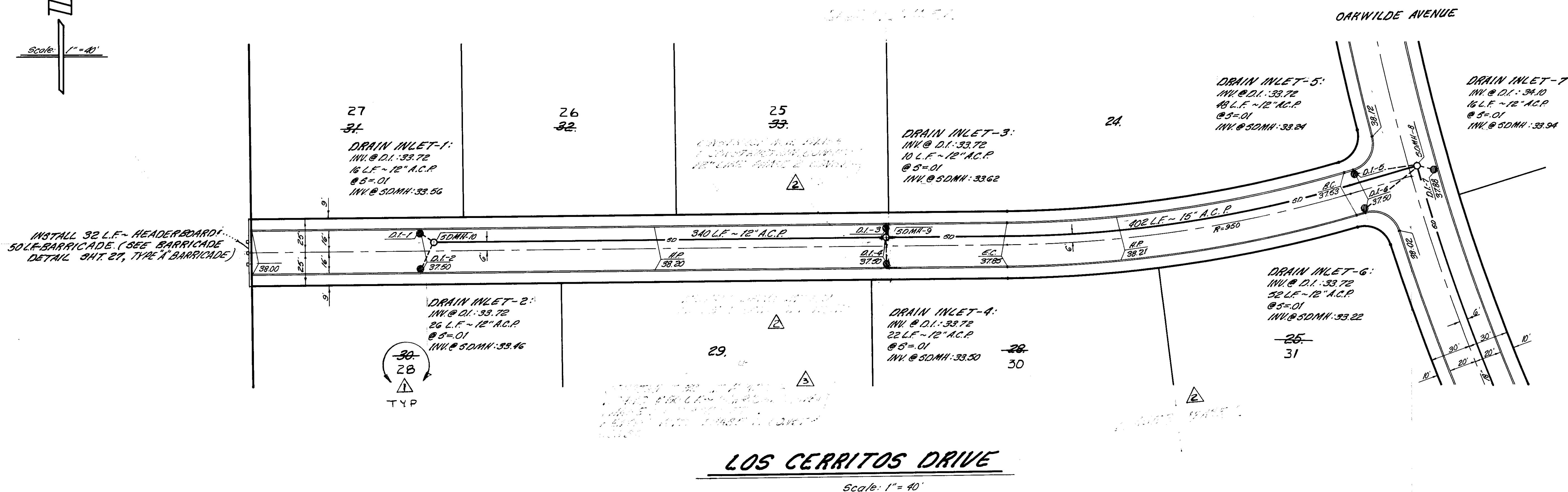
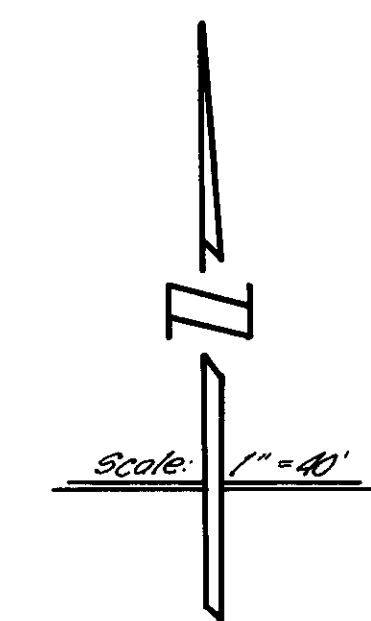
P.O. BOX 816 900 H STREET, SUITE G
MODESTO CALIFORNIA 95353 (209) 526-4214

PLAN AND PROFILE
ESCONDIDO PLACE
MORADA ESTATES NORTH
SAN JOAQUIN COUNTY

Drawn: HARWOOD	ROY A. GALLI R.C.E. 16024	REFER TO: Modesto Office
Date: MAR 88	JIMMY G. BATEMAN L.S. 4685	SHEET
Scale: As Noted	12/1/88	19
Job No. 50,813	REVISIONS	OF 28
Checked:	Symb. Date Description Appd.	
File No.		

CONSTRUCTION STAKING LIABILITY WAIVER

THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF, HOWEVER, ANOTHER ENGINEERING AND/OR SURVEYING FIRM SHOULD BE EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF MID-VALLEY ENGINEERING, INC. HAD PERFORMED THE STAKING WORK.



AS-BUILT PLAN REVISIONS	
BY <i>Ray A. Galli</i>	DATE 12-18-89
RCE 16024	
①	REVISE LOT NO'S
②	REM. PHASE LINE & NOTES
③	REM. PHASE 1 HEADER

Approved by the Director of Public Works,
County of San Joaquin, California.

Date: _____

By: _____



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MODESTO CALIFORNIA 95353 (209) 526-4214

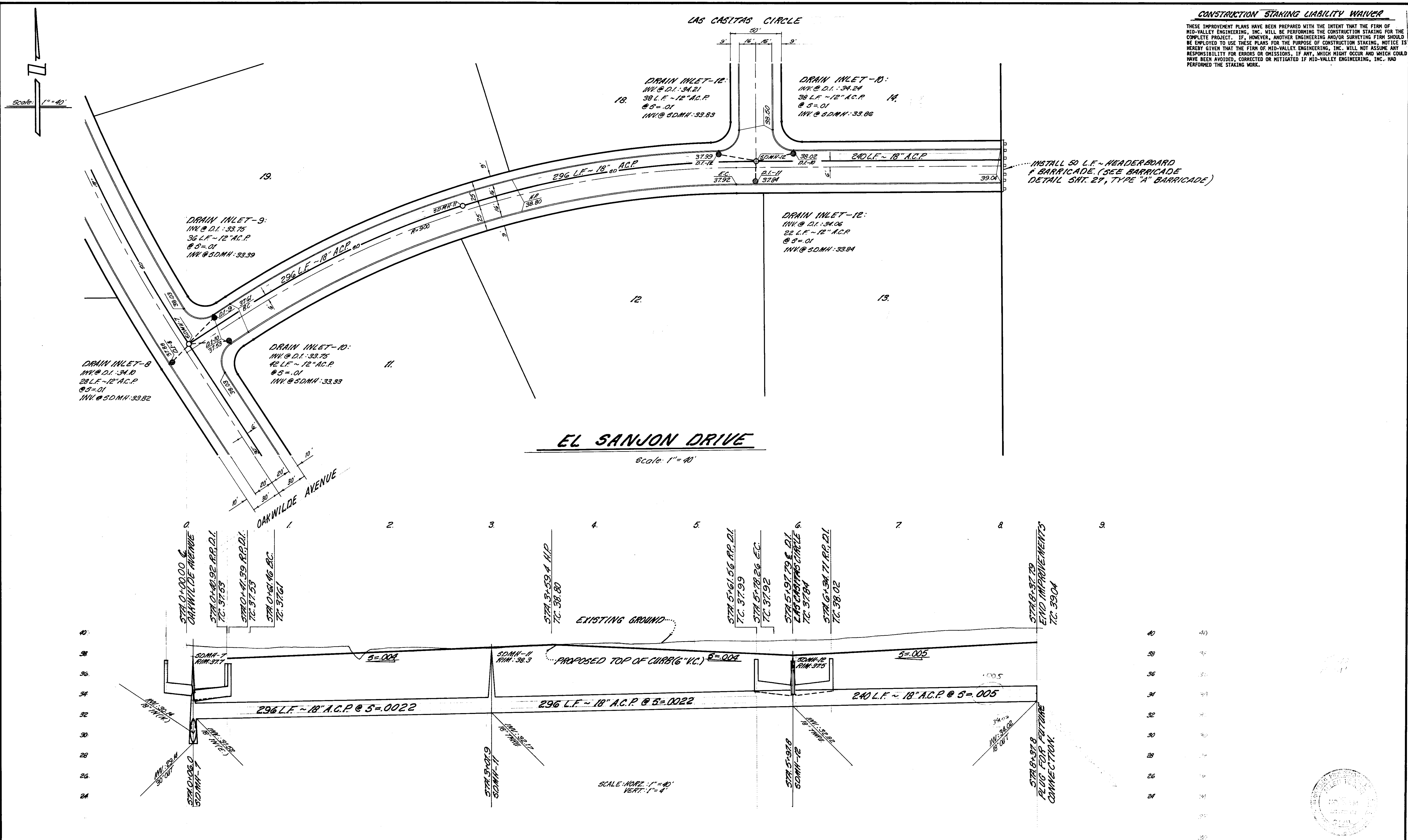
ENGINEERING
&
SURVEYING
PLANNING
&
ZONING

PLAN AND PROFILE
LOS CERRITOS DRIVE
MORADA ESTATES NORTH
SAN JOAQUIN COUNTY

HARWOOD Drawn MILLER Date 9-1-88 Scale AS NOTED Job No. 50, 813 Checked _____ File No. _____		ROY A. GALLI RCE 16024 JIMMY G. BATEMAN L.S. 4685 <i>all South 7/1/88</i>	REFER TO: Modesto Office SHEET 18 OF 28	
		REVISIONS		
	Sym.	Date	Description	Appd.

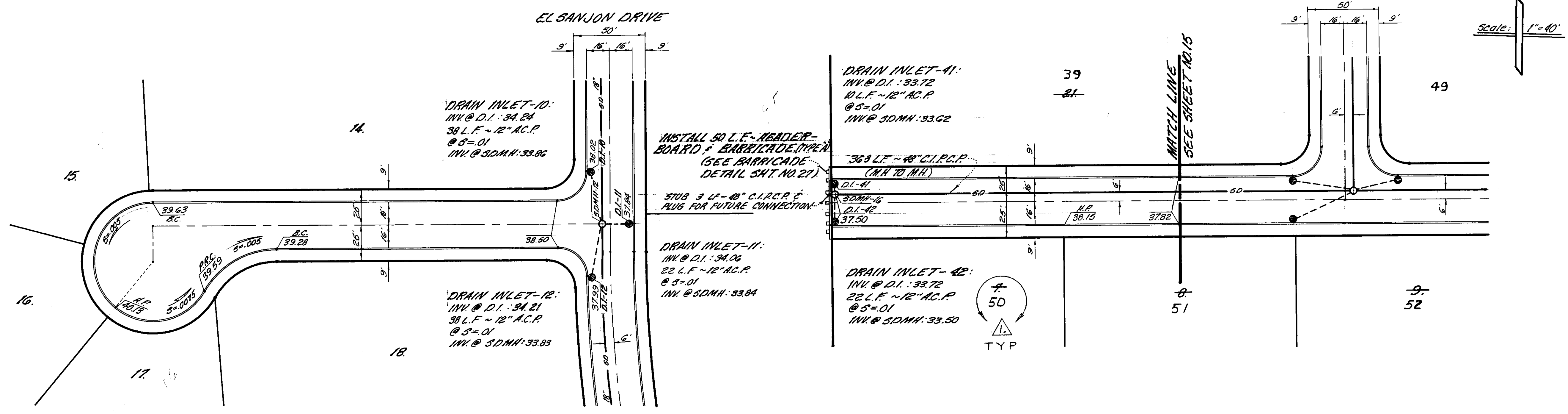
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50-2086



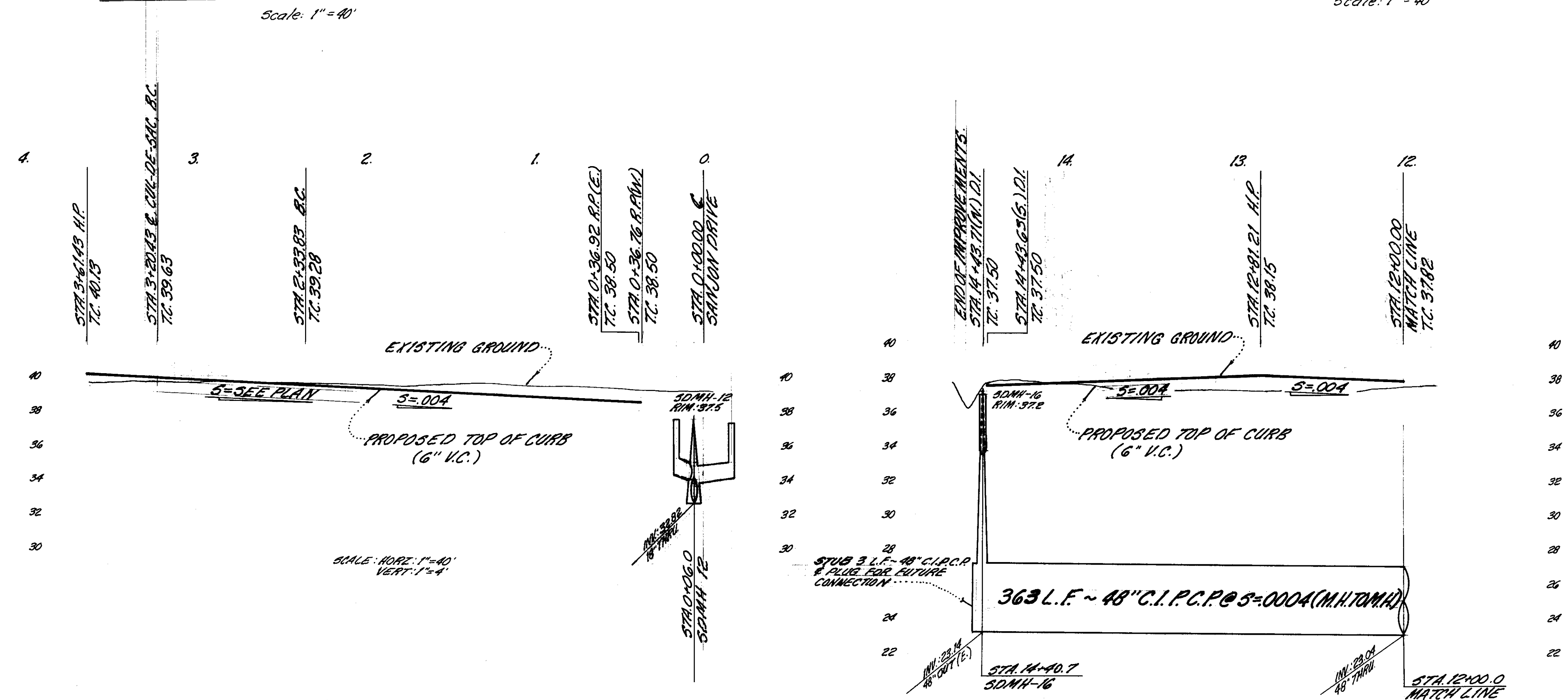
86-2087

CONSTRUCTION STAKING LIABILITY WAIVER
THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF, HOWEVER, ANOTHER ENGINEERING AND/OR SURVEYING FIRM SHOULD BE EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF MID-VALLEY ENGINEERING, INC. HAD PERFORMED THE STAKING WORK.



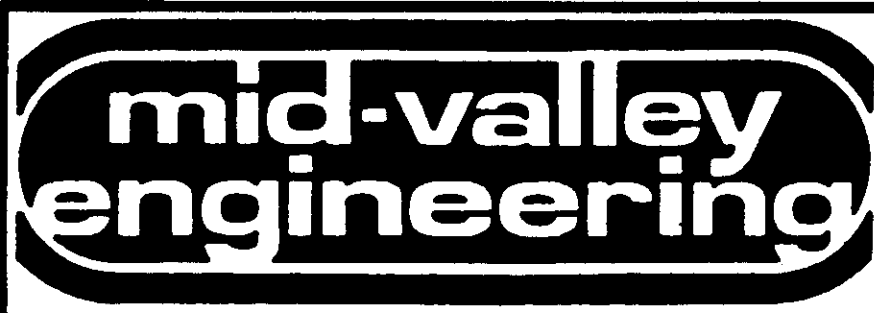
LAS CASITAS CIRCLE

TUDOR ROSE GLEN



AD-BUILT PLAN REVISIONS	
BY <i>Ray A. Miller</i>	DATE 12-18-89
RCE 16024	
▲ REVISE LOT NO'S	
▲	
▲	
▲	

Approved by the Director of Public Works,
County of San Joaquin, California.
Date: _____
By: _____



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MODESTO CALIFORNIA 95353 (209) 526-4214

ENGINEERING
&
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PLANNING
&
ZONING

PLAN AND PROFILE
LAS CASITAS CIRCLE
TUDOR ROSE GLEN
MORADA ESTATES NORTH
SAN JOAQUIN COUNTY

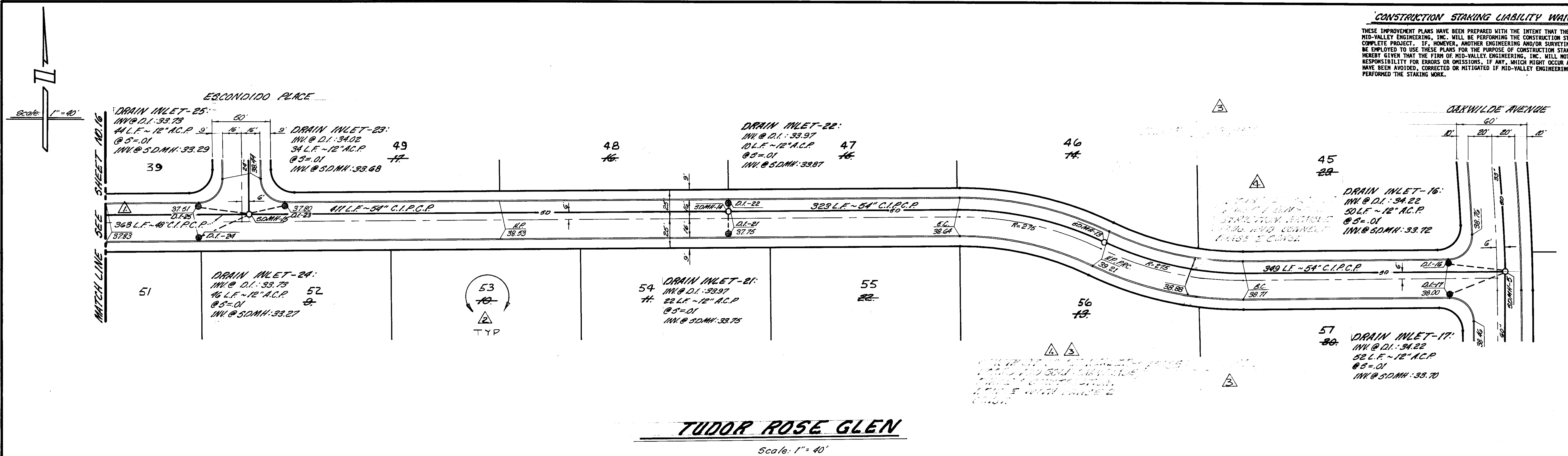
HARWOOD
Drawn *MILLER*
Date 3-1-88
Scale: As Noted
Job No. 80,813
Checked _____
File No. _____

ROY A. GALLI	R.C.E. 16024		
JIMMY G. BATEMAN	L.S. 4885		
<i>U.S. South 7/1/88</i>			
REVISIONS			
Symb.	Date	Description	Appd.

REFER TO: Modesto Office
SHEET
16
OF **28**

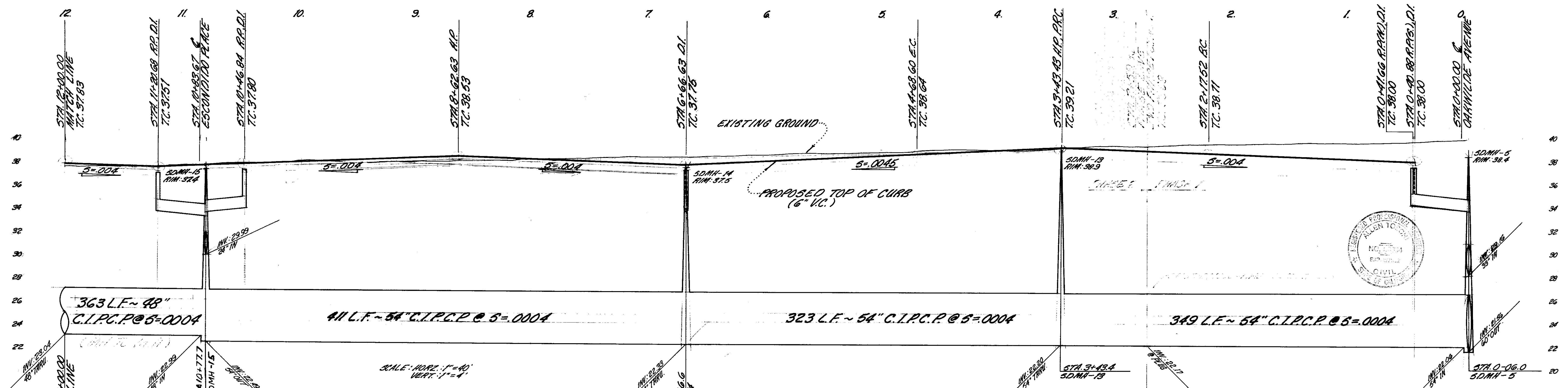
CONSTRUCTION STAKING LIABILITY WAIVER

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TUDOR ROSE GLEN

Scale: 1" = 40'



"AS-BUILT" PLAN REVISIONS

BY Roy A. Galli DATE 12-18-89

RCE 16024

REVISION LOT NO'S

REMOVE PHASE LINES & NOTES

REMOVE STUB & PLUG NOTE

Approved by the Director of Public Works,
County of San Joaquin, California.

By: _____

Date: _____

**mid-valley
engineering**

P.O. BOX 816 900 H STREET, SUITE G
MODESTO CALIFORNIA 95353 (209) 526-4214

ENGINEERING
&
SURVEYING
PLANNING
&
ZONING

PLAN AND PROFILE

TUDOR ROSE GLEN

MORADA ESTATES NORTH

SAN JOAQUIN COUNTY

HARWOOD
Drawn MILLER

Date 3-1-88

Scale: As Noted

Job No. 50,819

Checked

File No.

ROY A. GALLI RCE 16024

JIMMY G. BATEMAN L.S. 4685

Date 7/1/88

REVISIONS

4/20/88 CO. REVISIONS

15

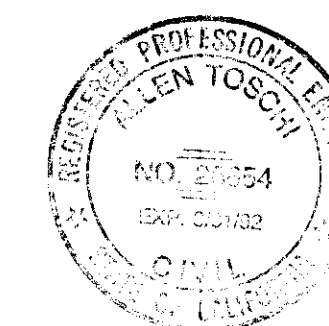
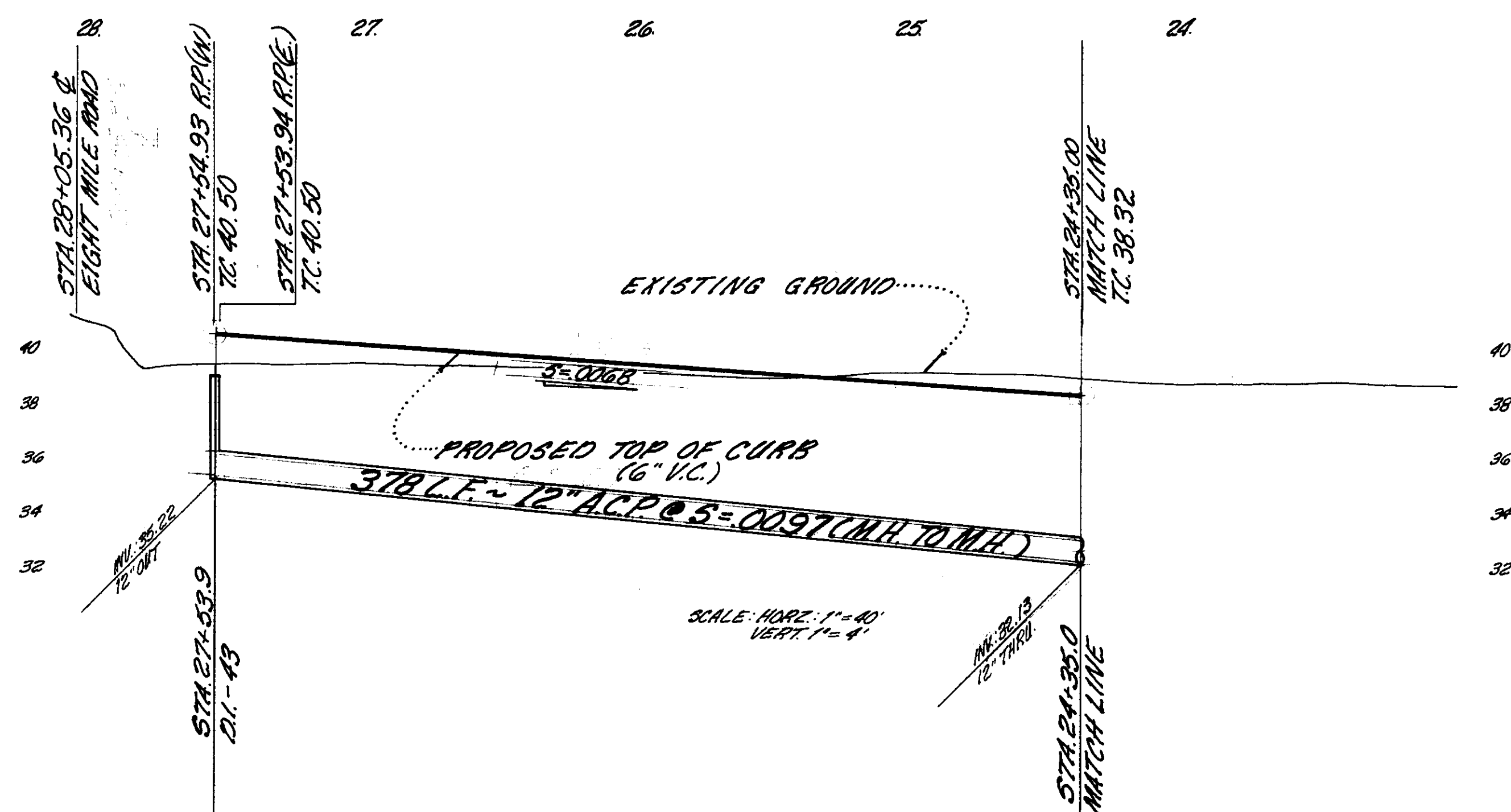
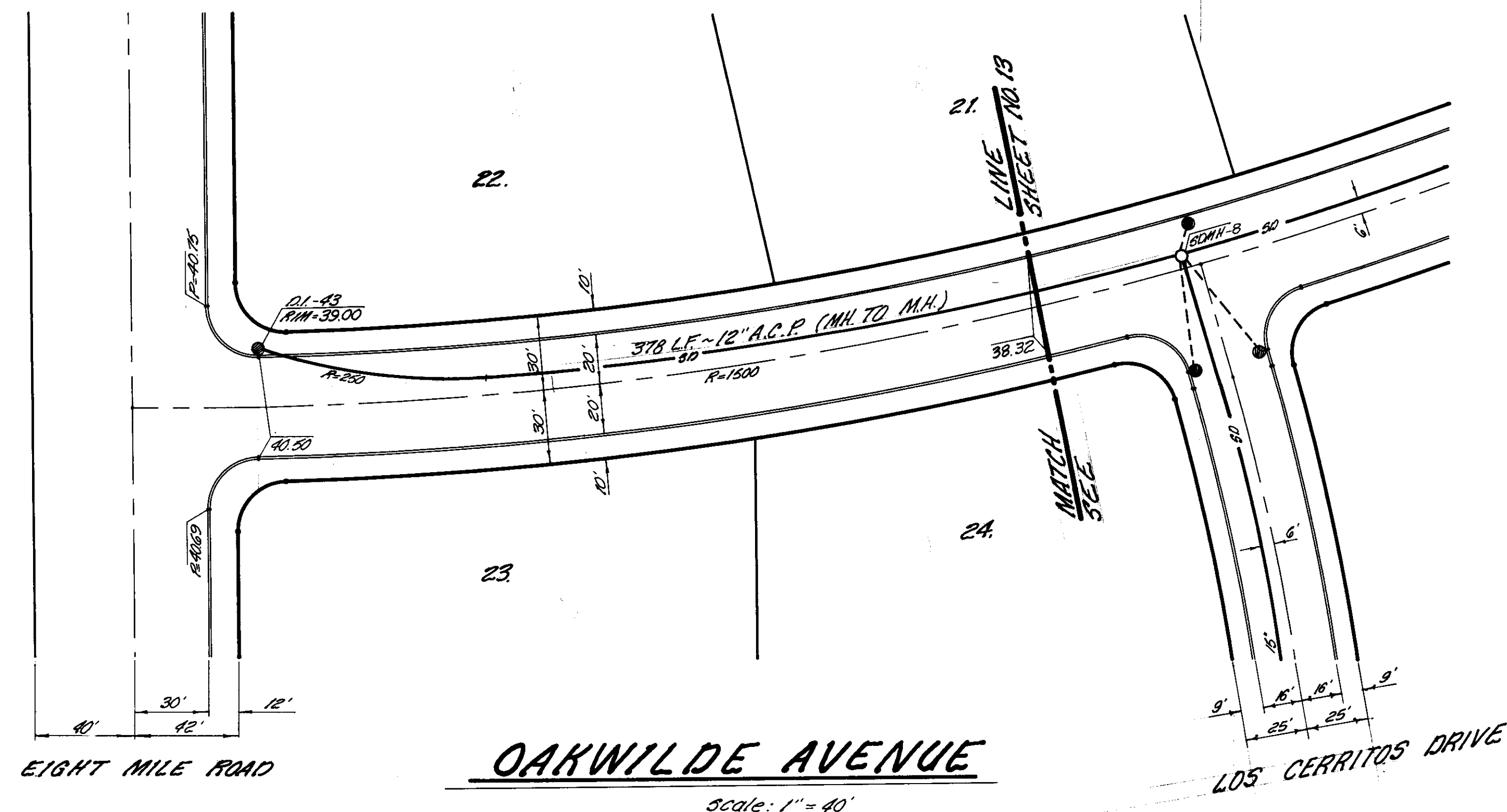
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28

880205

CONSTRUCTION STAKING LIABILITY WAIVER

THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF, HOWEVER, ANOTHER ENGINEERING AND/OR SURVEYING FIRM SHOULD BE EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF MID-VALLEY ENGINEERING, INC., HAD PERFORMED THE STAKING WORK.



AS-BUILT PLAN REVISIONS	
BY <u>RCE 16024</u>	DATE <u>12-18-89</u>
BUILT AS-SHOWN-THIS SHEET	
▲	
▲	
▲	

Approved by the Director of Public Works,
County of San Joaquin, California.

By: _____ Date: _____

**mid-valley
engineering**

ENGINEERING
&
SURVEYING
PLANNING
&
ZONING

P.O. BOX 816 900 H STREET, SUITE G
MODESTO CALIFORNIA 95353 (209) 526-4214

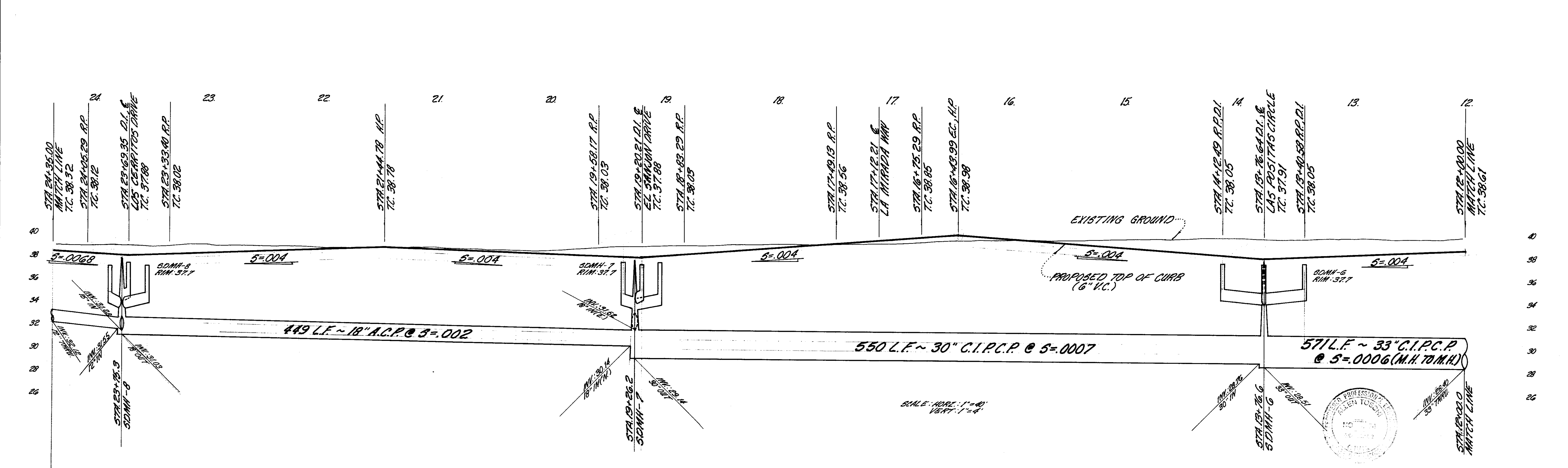
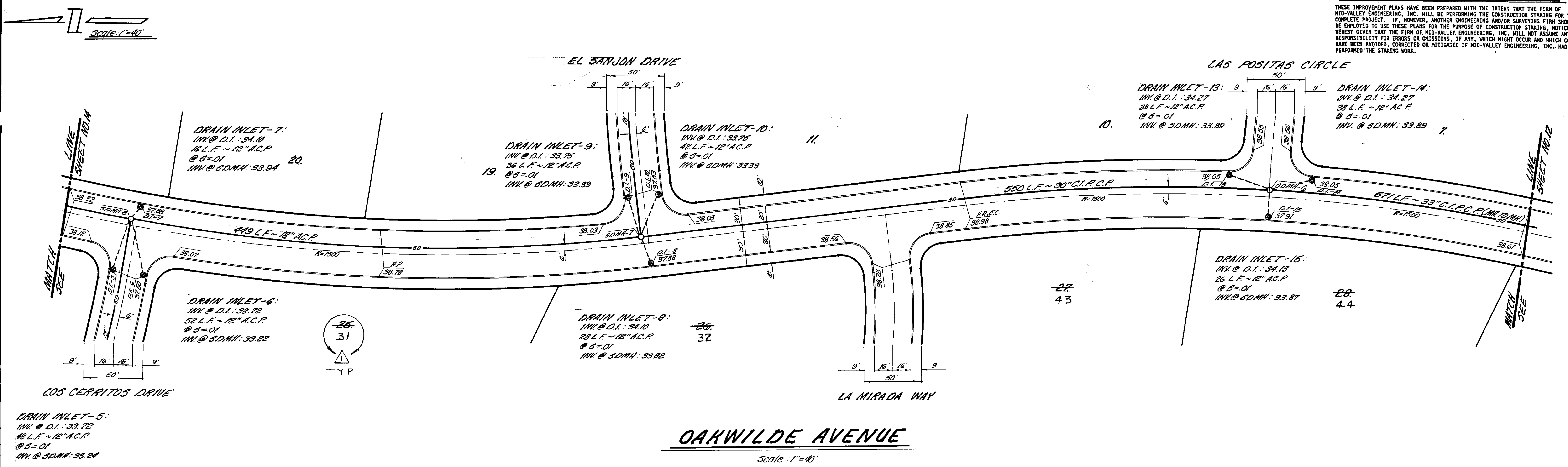
PLAN AND PROFILE
OAKWILDE AVENUE
MORADA ESTATES NORTH
SAN JOAQUIN COUNTY

HARWOOD Drawn <u>MILLER</u> Date <u>3-1-88</u> Scale: <u>As Noted</u> Job No. <u>60,813</u> Checked _____ File No. _____		ROY A. GALLI R.C.E. 16024 JIMMY G. BATEMAN L.S. 4685 <u>AS</u> <u>7/1/88</u> REVISIONS <table border="1"> <thead> <tr> <th>Symb.</th> <th>Date</th> <th>Description</th> <th>Appd.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		Symb.	Date	Description	Appd.												
Symb.	Date	Description	Appd.																
REFER TO: Modesto Office		SHEET 14 OF 28																	

54-2089

CONSTRUCTION STAKING LIABILITY WAIVER

THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF, HOWEVER, ANOTHER ENGINEERING AND/OR SURVEYING FIRM SHOULD BE EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF MID-VALLEY ENGINEERING, INC. HAD PERFORMED THE STAKING WORK.

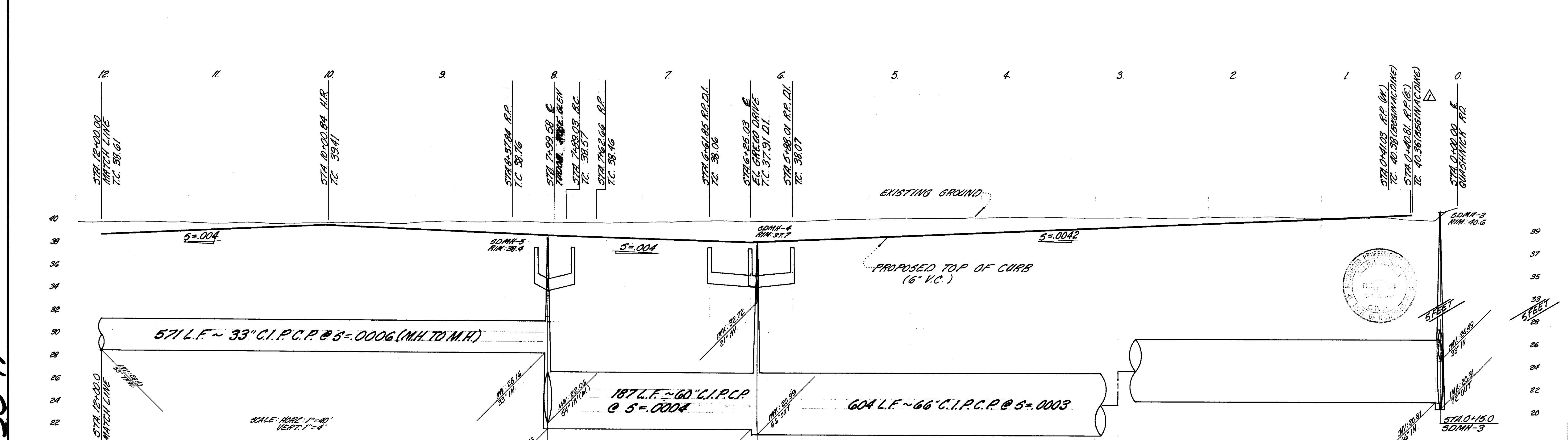
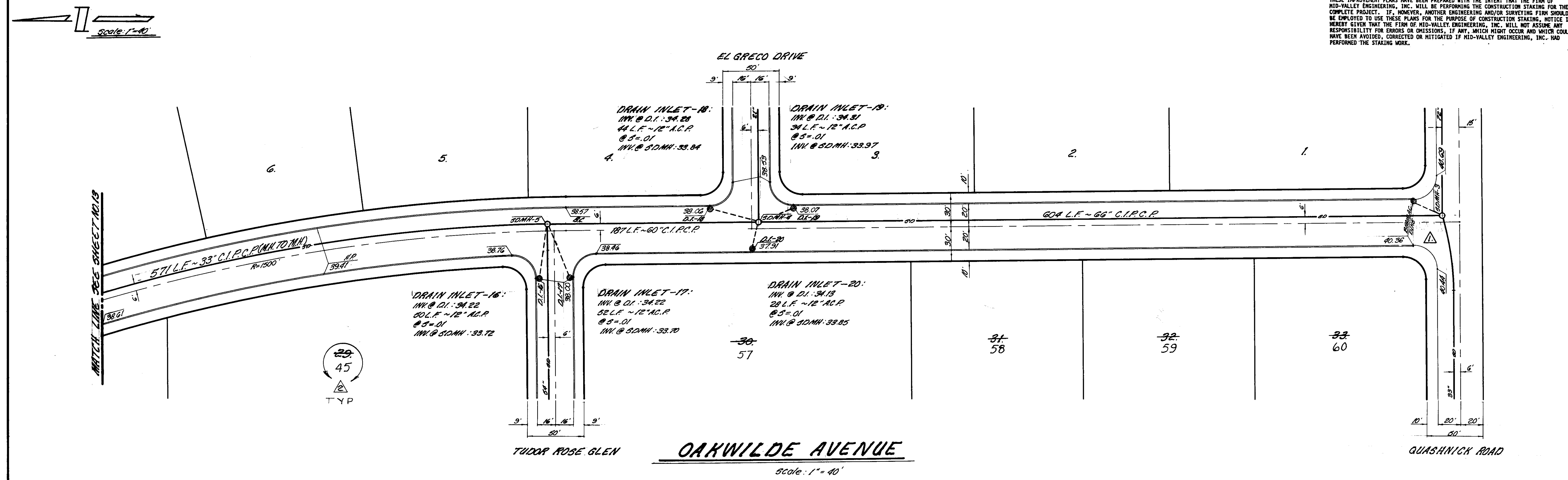


SC-2090

"AS-BUILT PLAN REVISIONS" BY: <u>Ray A. Goll</u> DATE: <u>12-18-89</u> RCE 16074 REVISE LOT NO'S _____ _____ _____		Approved by the Director of Public Works, County of San Joaquin, California. Date: _____ By: _____		mid-valley engineering P.O. BOX 816 900 H STREET, SUITE G MODESTO CALIFORNIA 95353 (209) 526-4214 ENGINEERING SURVEYING PLANNING ZONING		PLAN AND PROFILE OAKWILDE AVENUE MORADA ESTATES NORTH SAN JOAQUIN COUNTY		HARWOOD Drawn: <u>MILLER</u> Date: <u>3-1-88</u> Scale: <u>As Noted</u> Job No: <u>80,813</u> Checked: _____ File No: _____		ROY A. GALLI RCE 16024 JIMMY G. BATEMAN L.S. 4695 <u>U.S. Goll</u> 7/1/88 REVISIONS <table border="1"> <thead> <tr> <th>Sym.</th> <th>Date</th> <th>Description</th> <th>Appd.</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		Sym.	Date	Description	Appd.													REFER TO: _____ Modesto Office SHEET 13 OF 28	
Sym.	Date	Description	Appd.																										

CONSTRUCTION STAKING LIABILITY WAIVER

THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF, HOWEVER, ANOTHER ENGINEERING AND/OR SURVEYING FIRM SHOULD BE EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF MID-VALLEY ENGINEERING, INC. HAD PERFORMED THE STAKING WORK.



19-20-21

Approved by the Director of Public Works,
County of San Joaquin, California.
Date: _____
By: _____

AS-BUILT PLAN REVISIONS		
BY	DATE	
RCE 16024	12-18-89	
REVISION	LOT NO'S	
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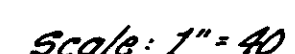
mid-valley engineering
ENGINEERING & SURVEYING PLANNING & ZONING
P.O. BOX 816 900 H STREET, SUITE G
MODESTO CALIFORNIA 95353 (209) 526-4214

PLAN AND PROFILE
OAKWILDE AVENUE
MORADA ESTATES NORTH
SAN JOAQUIN COUNTY

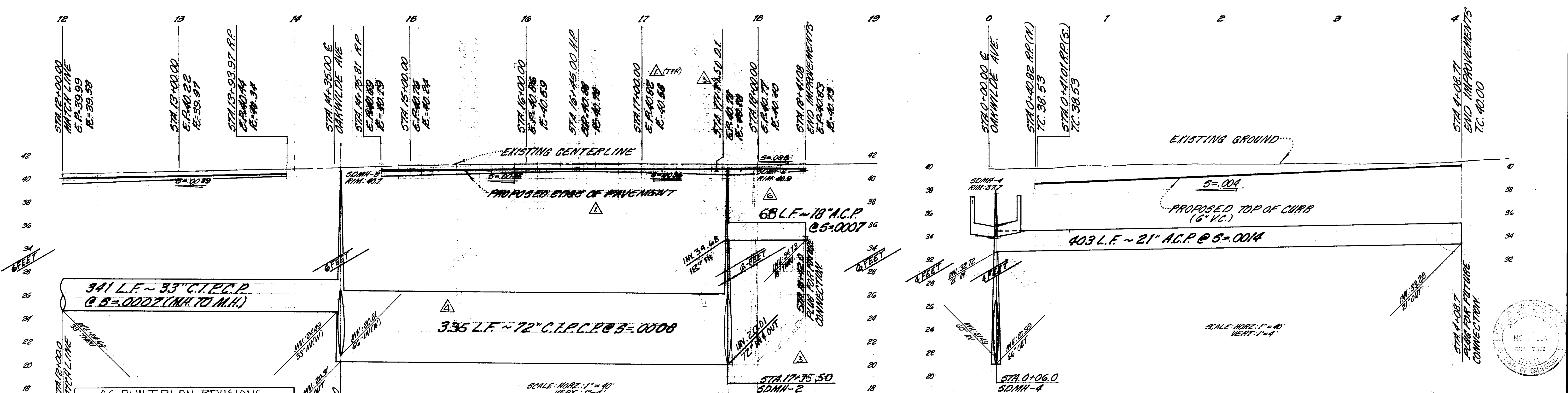
HARDWOOD		ROY A. GALLI	RCE 16024
Drawn	MILLER	JIMMY G. BATEMAN	L.S. 4685
Date	5-7-88		
Scale	As Noted		
Job No.	30,813		
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REFER TO:
Modesto Office
SHEET
12
OF
28

THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF, HOWEVER, ANOTHER ENGINEERING AND/OR SURVEYING FIRM SHOULD BE EMPLOYED TO USE THESE PLANS FOR THE PURPOSES OF CONSTRUCTION STAKING, NOTICE IS GIVEN THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF MID-VALLEY ENGINEERING, INC. HAD PERFORMED THE STAKING WORK.



 INDICATES AREA OF EX. PAVEMENT
TO BE REMOVED AND REPAVED
WITH 3" A.C. OVER 8" A.B. (SEE DETAIL ON SHEET
NO. 10).



AS-BUILT PLAN REVISIONS

BY Kay A. Tall DATE 12-18-89
RCE 6024

2. REVISE LOT NO'S
3. RELOCATE M.H. 1 & 2 & C.B. & STA. NO'S
4. REV. 72" CLIPCD LGTH TO 335 LF. (WAS 356)
5. ENLARGE & MOVE POND & PUMP STA.
6. REV. 18" PIPE LGTH TO 68' TO MATCH STA.

Approved by the Director of Public Works,
County of San Joaquin, California.

Date:

BU:



**ENGINEERING
&
SURVEYING
PLANNING
&
ZONING**

P.O. BOX 816 900 H STREET, SUITE G
MODESTO CALIFORNIA 95353 (209) 526-4214

PLAN AND PROFILE
QUASHNICK ROAD
EL GRECO DRIVE
MORADA ESTATES NORTH
SAN JOAQUIN COUNTY

HARWOOD
Drawn MILLER

Date 3-1-88

Scale: *AS NO. 12*

Job No. 20, 010

Checked

File No.

ROY A. GALLI	R.C.E. 1602
JIMMY G. BATEMAN	L.S. 468

Al. Sassi

REVISIONS	
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	6/20/88	CO. REVISIONS.

REFER TO:
☒ Modesto Office

SHEET

III

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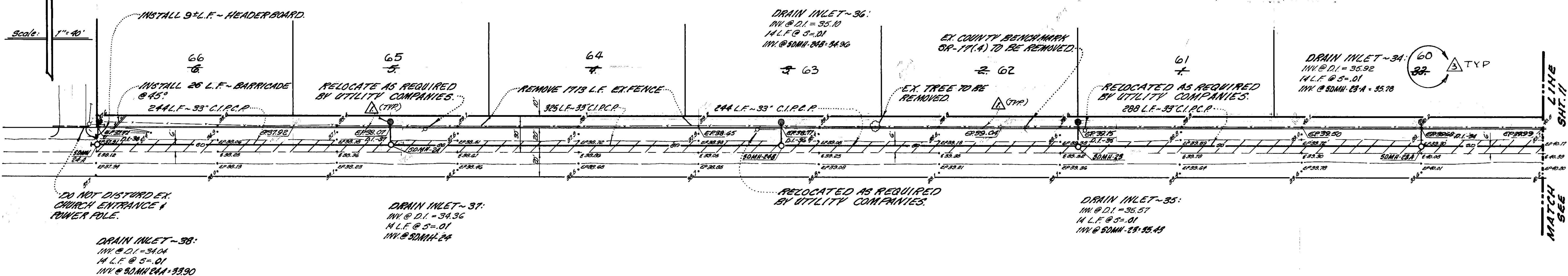
OF 28

SV-2092

CONSTRUCTION STAKING LIABILITY WAIVER

THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF, HOWEVER, ANOTHER ENGINEERING AND/OR SURVEYING FIRM SHOULD BE EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF MID-VALLEY ENGINEERING, INC. HAD PERFORMED THE STAKING WORK.

Scale: 1" = 40'

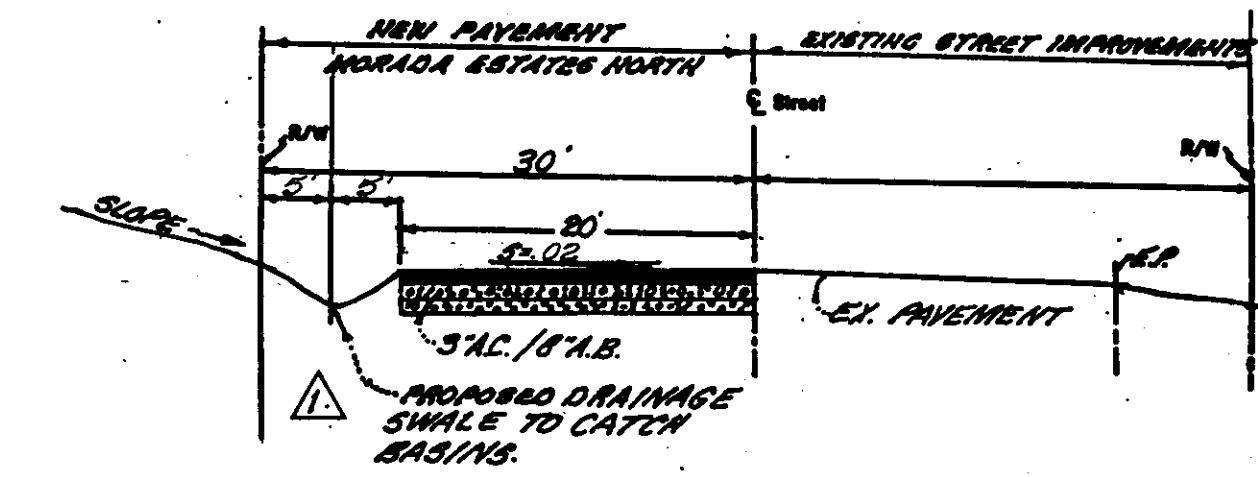


QUASHNICK ROAD

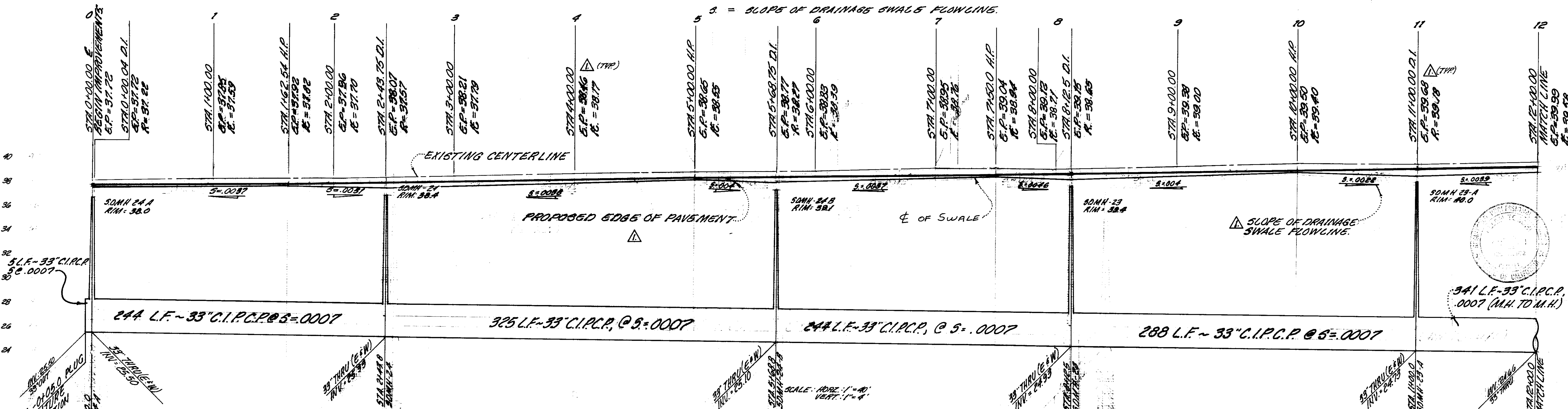
Scale: 1" = 40'

INDICATES AREA OF EX. PAVEMENT TO BE REMOVED & REPAVED WITH 3" A.C. OVER 8" A.B. (SEE DETAIL ON SHEET 8).

- E.P. = EDGE OF PAVEMENT PROPOSED FINISH GRADE
- E = FLOW LINE OF PROPOSED DRAINAGE SWALE
- R = DRAIN INLET RIM ELEVATION
- S = SLOPE OF DRAINAGE SWALE FLOWLINE



TYPICAL STREET CROSS-SECTION QUASHNICK ROAD



AS-BUILT PLAN REVISIONS

BY: Roy A. Galli DATE: 12-18-89

RCE 16024

REMOVE PHASE LINE & NOTE

REVISE LOT INFO'S

Approved by the Director of Public Works, County of San Joaquin, California.

Date:

By:

mid-valley engineering

ENGINEERING & SURVEYING PLANNING & ZONING

P.O. BOX 816 900 H STREET, SUITE G MODESTO CALIFORNIA 95353 (209) 526-4214

PLAN AND PROFILE QUASHNICK ROAD

MORADA ESTATES NORTH SAN JOAQUIN COUNTY

Drawn: MILLER

Date: 3-1-88

Scale: As Noted

Job No: 80, 813

Checked: [Signature]

File No:

REVISIONS

10 OF 28

CONSTRUCTION STAKING LIABILITY WAIVER

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Scale: 1" = 40'

Scale: 1" = 40'

NOTE: ON NORTH SIDE OF 8 MILE RD
CLEAN-UP EXIST. ROADSIDE
DITCH & GRADE TO DRAIN FROM
R.R. TO WEST PROPERTY LINE.

XX cross-hatched pavement
NOT REMOVED

15' LUP

REMOVE EX. PAVED 10' C.M.P.

E DRAINAGE DITCH, SEE
STREET SECTION DETAIL
SHEET NO. 8.

INSTALL 35' L.F.
HEADERBOARD
& BARRICADE.

SMOOTH
TRANSITION
DRAIN INLET - 15:
INV @ D.I.: 34.13
36 L.F. - 12" A.C.P.
@ 5 = 01
INV @ S.D.M.H.: 33.87

GRADE EX. ROAD SIDE
TO DRAIN TO NEW ROAD
DITCH.

DRAIN INLET - 13:
INV @ D.I.: 34.27
38 L.F. - 12" A.C.P.
@ 5 = 01
INV @ S.D.M.H.: 33.89

DRAIN INLET - 14:
INV @ D.I.: 34.27
38 L.F. - 12" A.C.P.
@ 5 = 01
INV @ S.D.M.H.: 33.89

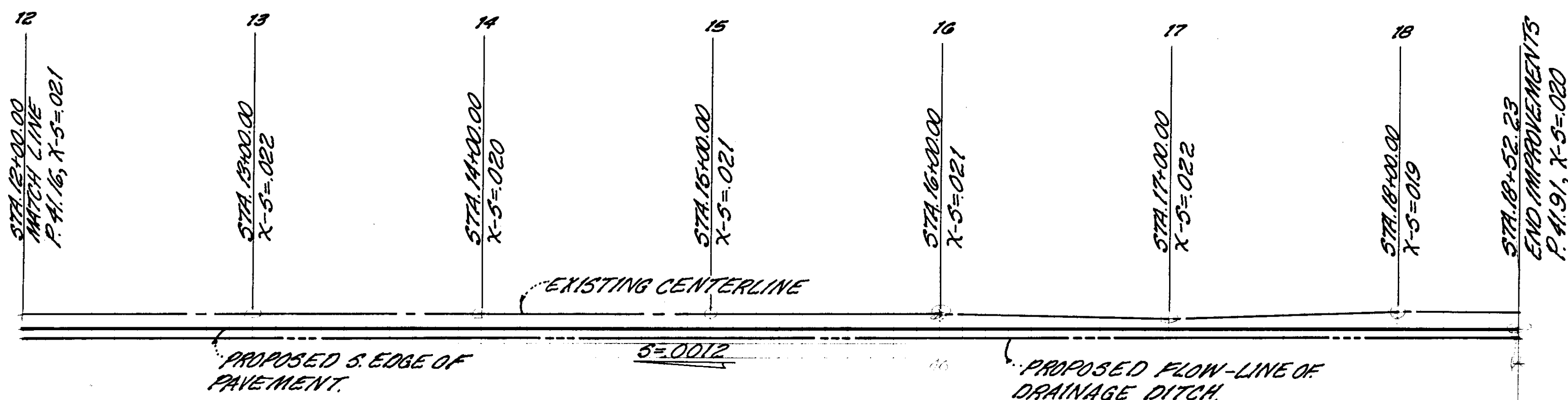
EIGHT MILE ROAD

Scale: 1" = 40'

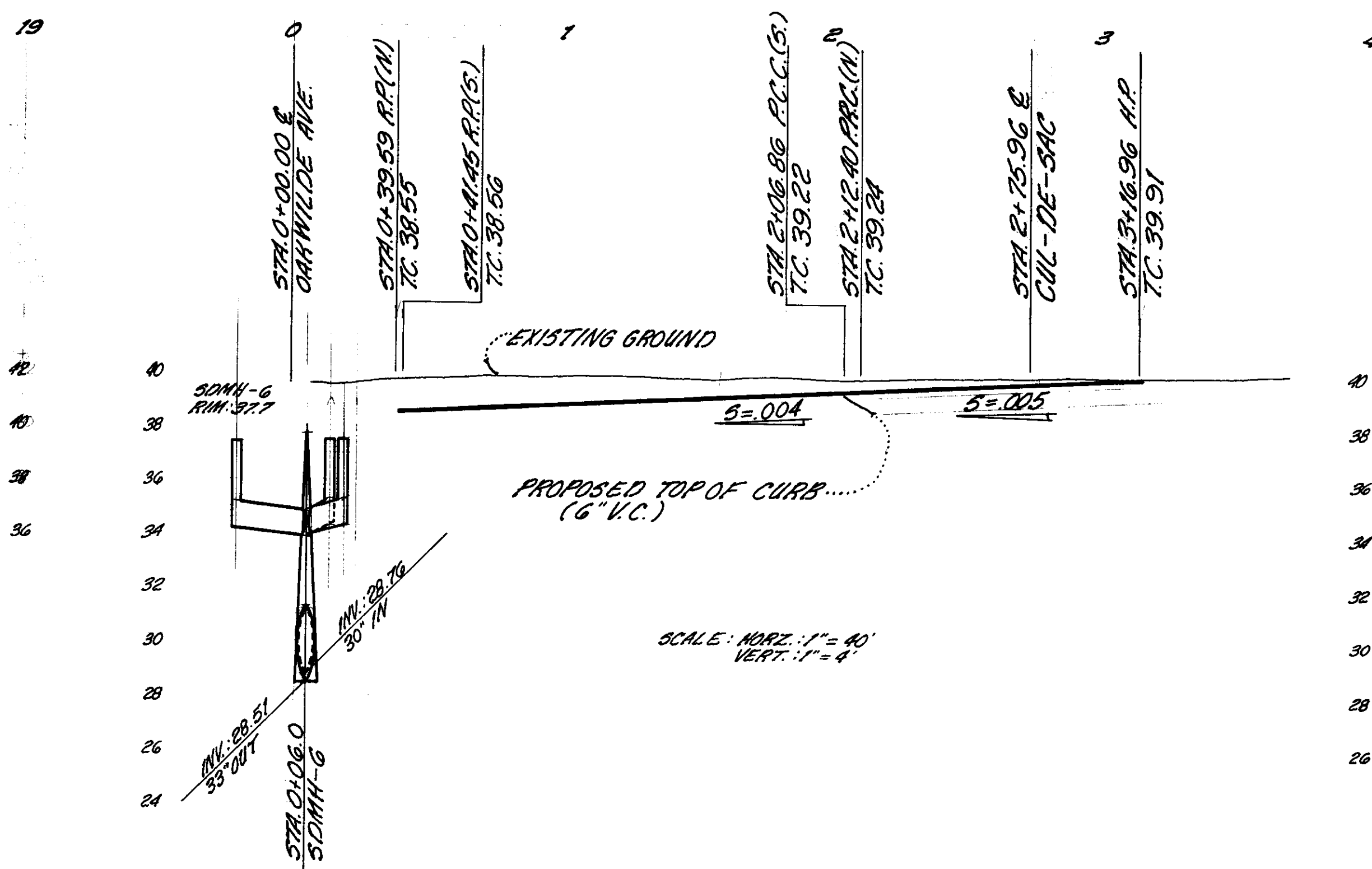
LAS POSITAS CIRCLE

Scale: 1" = 40'

INDICATES AREA OF EX. PAVEMENT
TO BE REMOVED & REPAVED WITH
3" A.C. OVER 11" A.B. (SEE DETAIL ON
SHEET 8).



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



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

AS-BUILT PLAN REVISIONS	
BY: Roy A. Galli	DATE: 12-18-89
RCE 16024	
ADDED LOT NO'S 22 & 17	
PAVEMENT REMOVAL REDUCTION	

Approved by the Director of Public Works,
County of San Joaquin, California.

Date:

By:

mid-valley
engineering

P.O. BOX 816 900 H STREET, SUITE G
MODESTO CALIFORNIA 95353 (209) 526-4214

ENGINEERING
&
SURVEYING
PLANNING
&
ZONING

PLAN AND PROFILE
EIGHT MILE ROAD
LAS POSITAS CIRCLE
MORADA ESTATES NORTH
SAN JOAQUIN COUNTY

REVISIONS	
NO.	DESCRIPTION
1	ADDED LOT NO'S 22 & 17
2	PAVEMENT REMOVAL REDUCTION

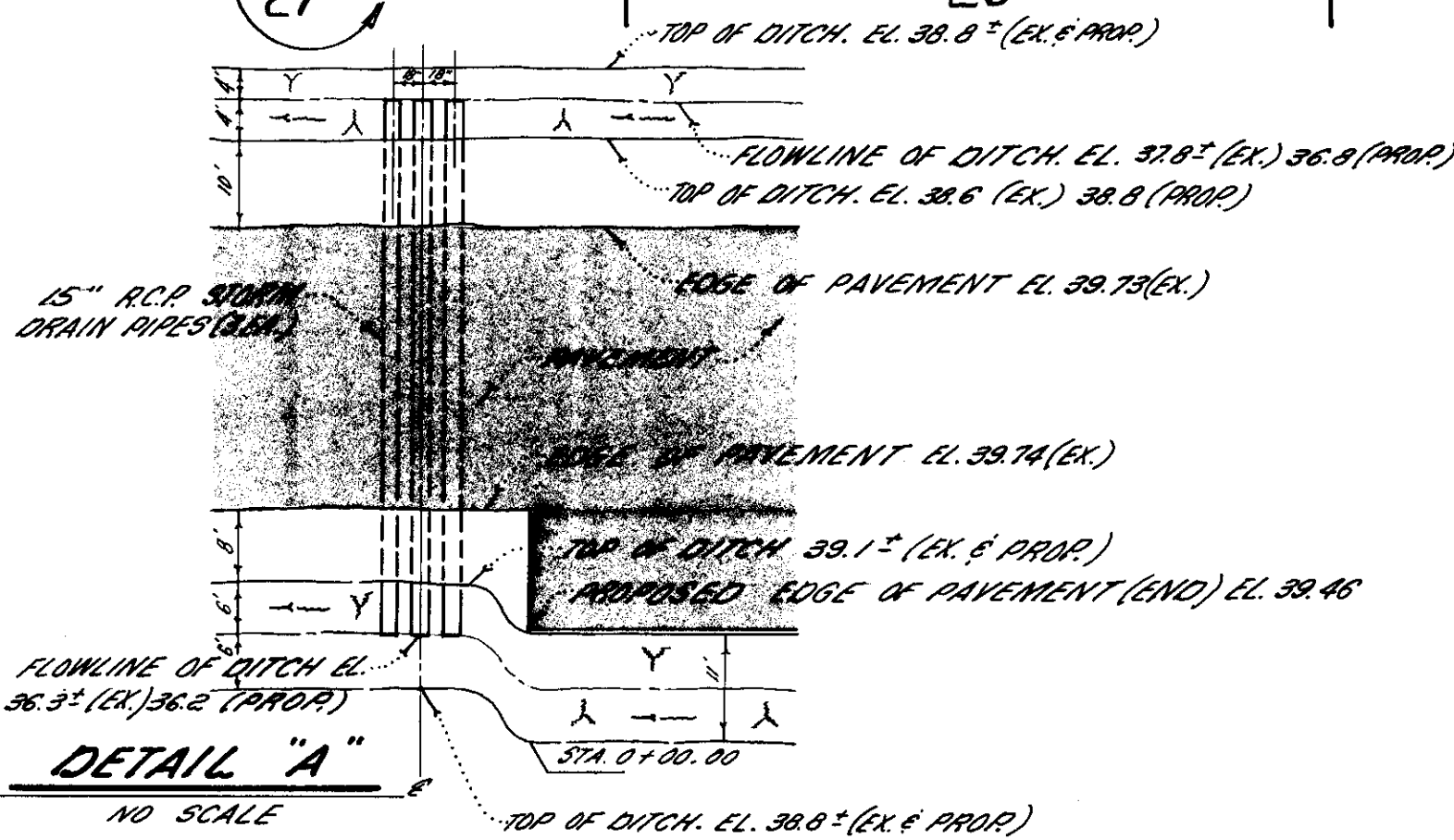
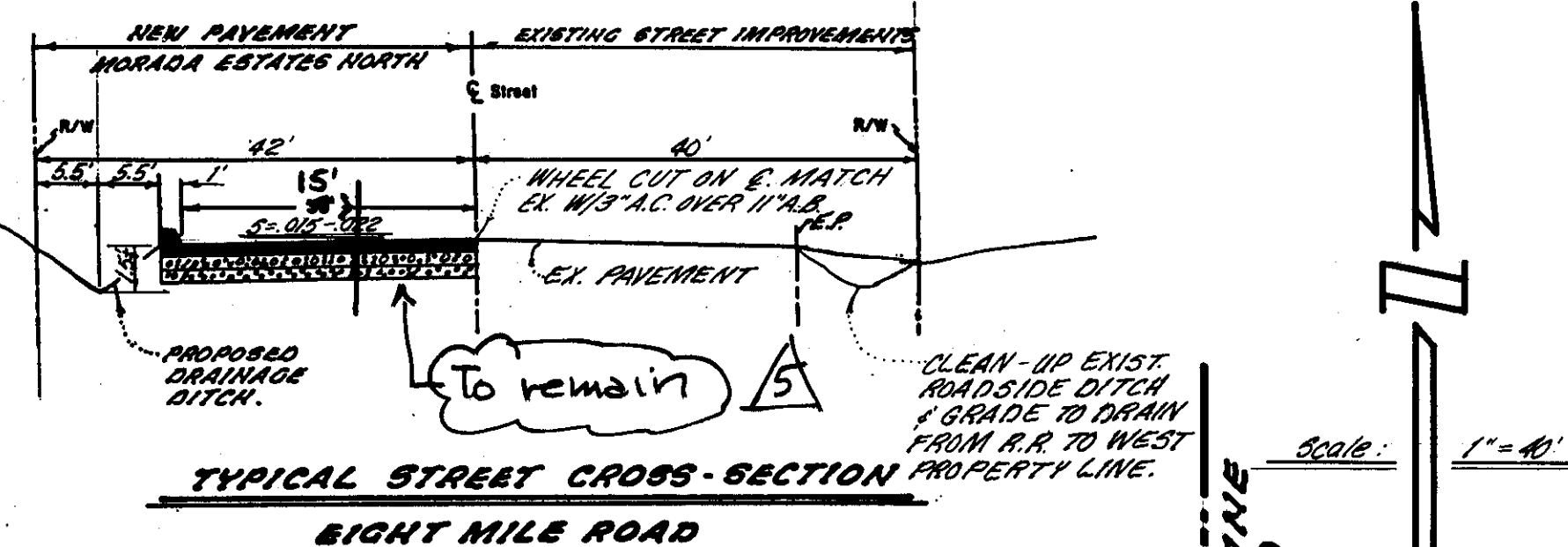
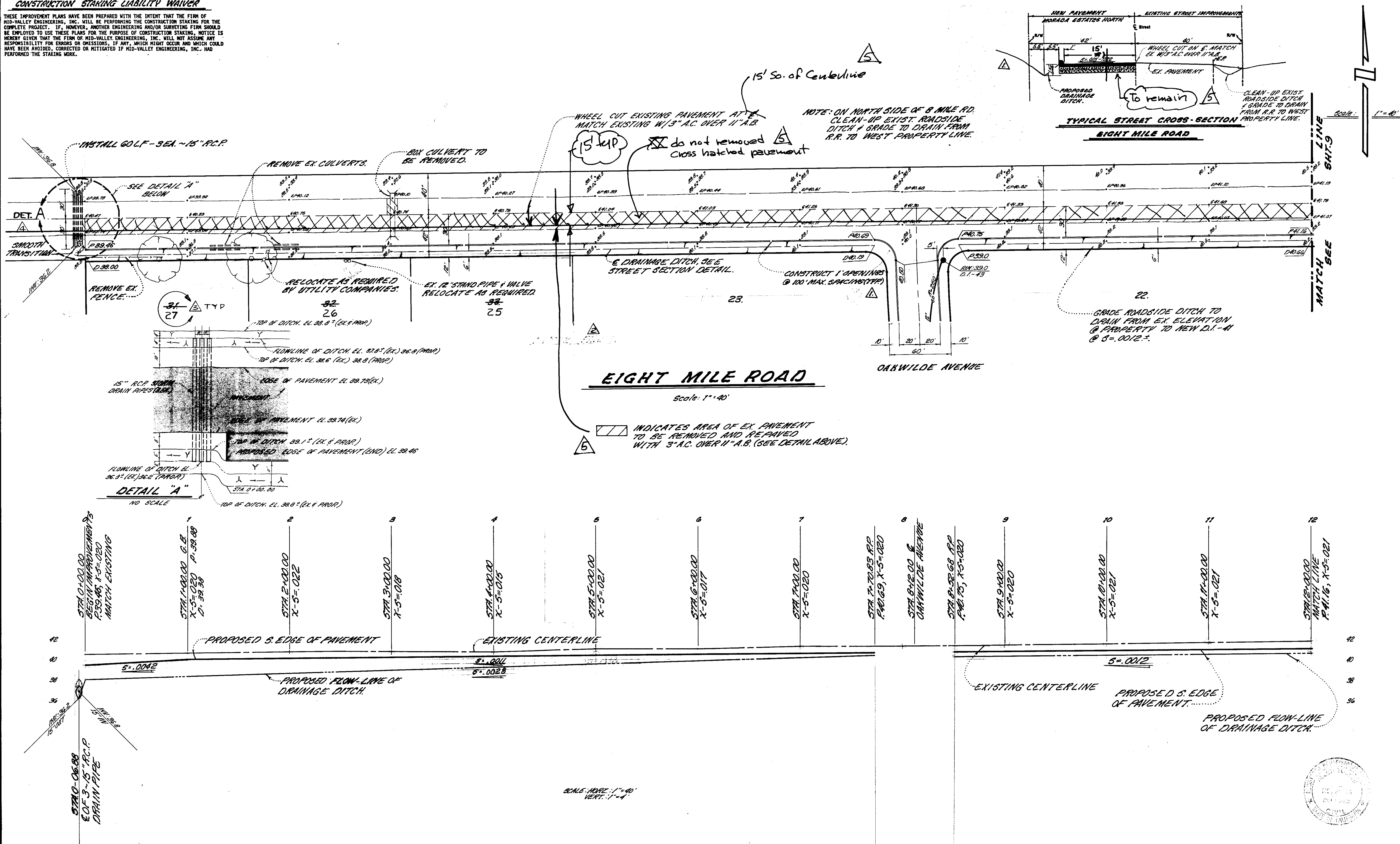
REFER TO:
SHEET
OF 28



56-2094

CONSTRUCTION STAKING LIABILITY WAIVER

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INDICATES AREA OF EX. PAVEMENT TO BE REMOVED AND REPAVED WITH 3\"/>

5602-2095

"AS-BUILT PLAN REVISIONS"

BY Roy A. Galli DATE 12-18-89

RCE 16024

- REMOVE PHASE LINES & NOTE
- REVISE LOT NO'S
- ADD DET. "A" CALLOUT
- REDUCTION OF PAVEMENT REMOVAL

Approved by the Director of Public Works,
County of San Joaquin, California.

Date: _____

By: _____

mid-valley
engineering

P.O. BOX 816 900 H STREET, SUITE G
MODESTO CALIFORNIA 95353 (209) 526-4214

ENGINEERING & SURVEYING PLANNING & ZONING

PLAN AND PROFILE
EIGHT MILE ROAD
MORADA ESTATES NORTH
SAN JOAQUIN COUNTY

HARWOOD
Drawn MILLER
Date 3-1-88
Scale: As Shown
Job No. 50,813
Checked _____
File No. _____

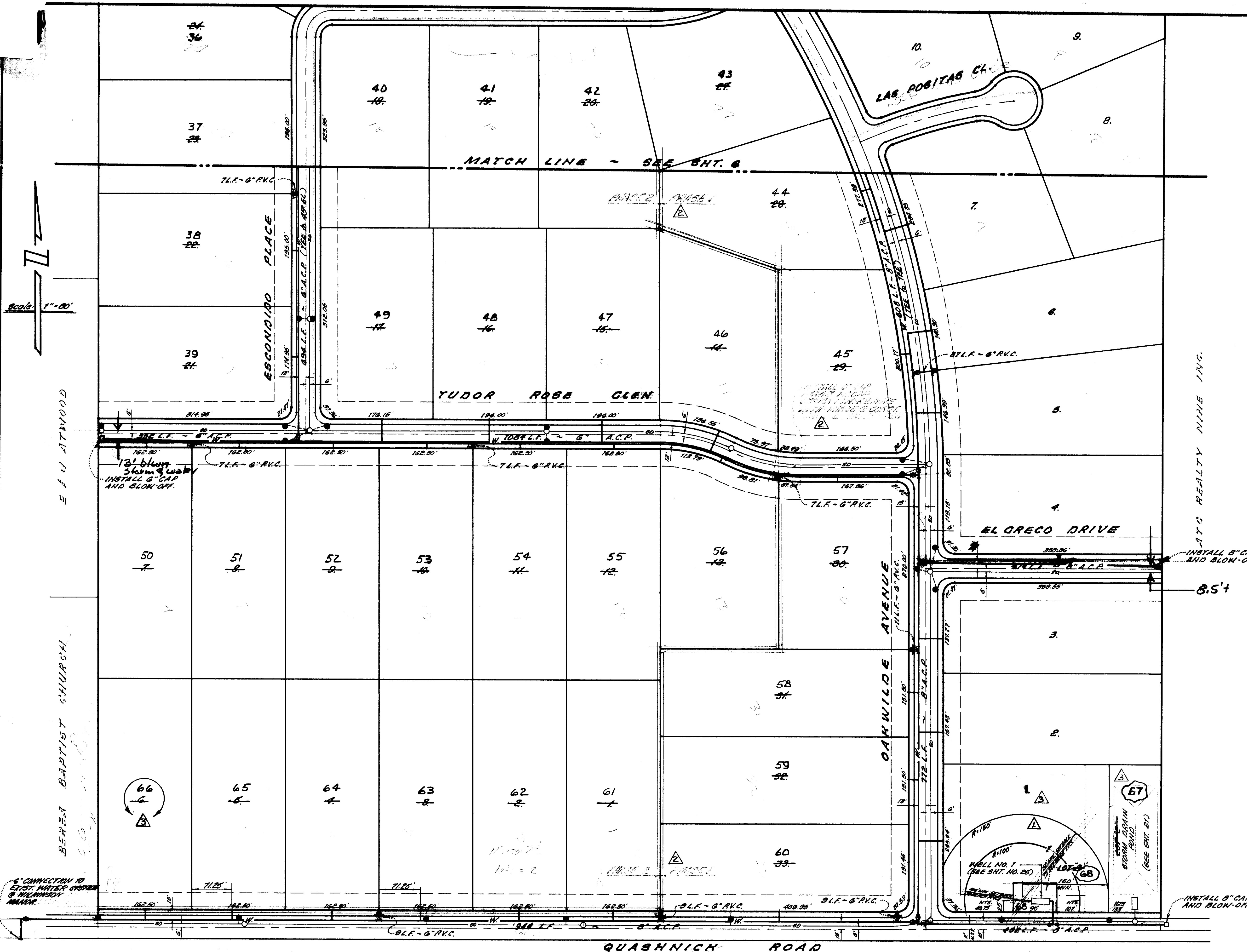
ROY A. GALLI RCE 16024
JIMMY G. BATESMAN L.S. 4685
AS SHOWN 7/1/88

SYMB	DATE	DESCRIPTION	APPD.
Δ	6/20/88	CO. REVISIONS	

REFER TO: Modesto Office

SHEET **8** OF **28**

SV-2096



CONSTRUCTION STAKING LIABILITY WAIVER
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"AS-BUILT" PLAN REVISIONS
BY Tom A. Hall DATE 12-18-89
RCE 16024
REMOVE PHASE LINES & NOTES
REVISE LOT NO'S - ADDED LOT 67 & 68 (WAS 64)

Approved by the Director of Public Works,
County of San Joaquin, California.
Date: _____
By: _____

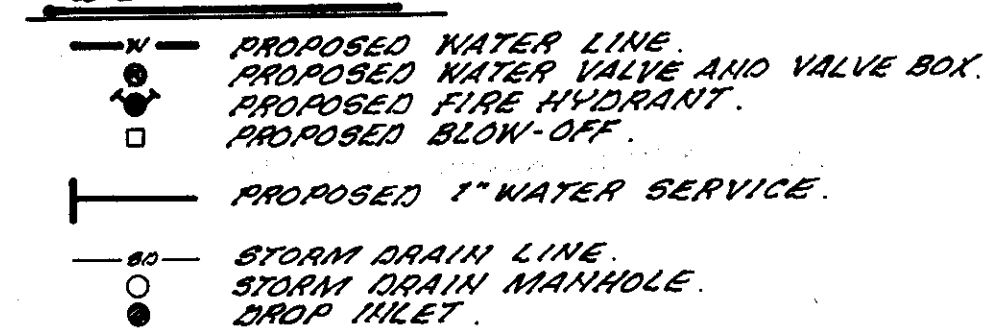
mid-valley engineering
ENGINEERING & SURVEYING PLANNING & ZONING
P.O. BOX 516 900 N STREET, SUITE G
MODESTO CALIFORNIA 95353 (209) 526-4214

WATER PLAN
MORADA ESTATES NORTH
SAN JOAQUIN COUNTY

Drawn: <u>MILLER</u>	ROY A. GALLI R.C.E. 16024
Date: <u>3-1-88</u>	JIMMY G. BATEMAN L.S. 4485
Scale: <u>1"=80'</u>	<u>Al. Sandoz</u> 7/1/88
Job No. <u>30,018</u>	REVISIONS
Checked: <u>LA</u>	Symbol Date Description
File No.	



1. ALL WATER LINES AND APPURTENANCES TO BE INSTALLED, SHALL BE DONE IN ACCORDANCE WITH THE SAN JOAQUIN COUNTY IMPROVEMENT STANDARDS, THE LATEST EDITION OF THE UNIFORM PLUMBING CODE, AND THE REQUIREMENTS OF THE MORADA-WATERLOO FIRE DISTRICT.
2. ALL WATER MAINS 6 INCHES AND LARGER SHALL BE EITHER A.C.P. CLASS 150 IN ACCORDANCE WITH THE SAN JOAQUIN COUNTY IMPROVEMENT STANDARDS OR P.V.C. CLASS 150 CONFORMING TO AWWA C-900.
3. ALL WATER MAINS TO HAVE MINIMUM OF 42" OF COVER OVER THE TOP OF PIPE.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR PRESSURE AND BACTERIA TESTING AS REQUIRED BY THE SAN JOAQUIN COUNTY HEALTH DEPARTMENT.
5. VALVE SIZE: ALL VALVES SHALL BE THE SAME SIZE AS THE PIPE.
6. FIRE HYDRANT AND VALVE TO BE OF THE TYPE SHOWN ON DETAIL SHEET 27. FIRE HYDRANTS SHALL HAVE 1 - 2 1/2" AND 1 - 4 1/2" OUTLETS.
7. STANDARD WATER LINE LOCATION: Unless otherwise noted:
MAINS: 13.0' FROM CENTERLINE
SERVICE LOCATED AT CENTER OF LOT (Unless otherwise noted)
FIRE HYDRANTS: 4.0' BACK OF CURB (See Detail on Shl. 27).



THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF, HOWEVER, ANOTHER ENGINEERING AND/OR SURVEYING FIRM SHOULD BE EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION, MID-VALLEY ENGINEERING, INC. HEREBY GIVES THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL NOT ASSUME ANY RESPONSIBILITY OR GROUND OR CONSEQUENCES, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF MID-VALLEY ENGINEERING, INC. HAD PREFERRRED THE STAKING DONE.

2 REMOVE PHASE LINE & NOTE
3 REVISE LOT NO'S - ADDED LOT 69 (WAS 'C')

BU: _____



**ENGINEERING
&
SURVEYING
PLANNING
&
ZONING**

MORADA ESTATES NORTH
SAN JOAQUIN COUNTY

Scale: 1"=80'

Job No. 50,813

Checked

REVISIONS			
Symb.	Date	Description	App.
	6/20/09	CO. REMEDIATION.	

SHEET

6

22

OF 28

SU-2098



CONSTRUCTION STAKING LIABILITY WAIVER
 THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF, HOWEVER, ANOTHER ENGINEERING AND/OR SURVEYING FIRM SHOULD BE EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF MID-VALLEY ENGINEERING, INC. HAD PERFORMED THE STAKING WORK.

"AS-BUILT PLAN REVISIONS"
 BY Roy A. Galli DATE 12-18-89
 RLE16024
 REVISIONS:
 1. REVISE LOT NO'S
 2. DIVIDE LOT #1 INTO 67 & 68 (WAS A & B)
 3. REMOVE PLUG NOTE
 4. REMOVE PHASE LINE & NOTE

Approved by the Director of Public Works,
 County of San Joaquin, California.
 Date: _____
 By: _____

mid-valley engineering
 ENGINEERING & SURVEYING PLANNING & ZONING
 BOX 816 900 N STREET, SUITE 6
 MODO CALIFORNIA 95353 (209) 526-4214

STORM DRAIN PLAN
MORADA ESTATE NORTH
 SAN JOAQUIN COUNTY

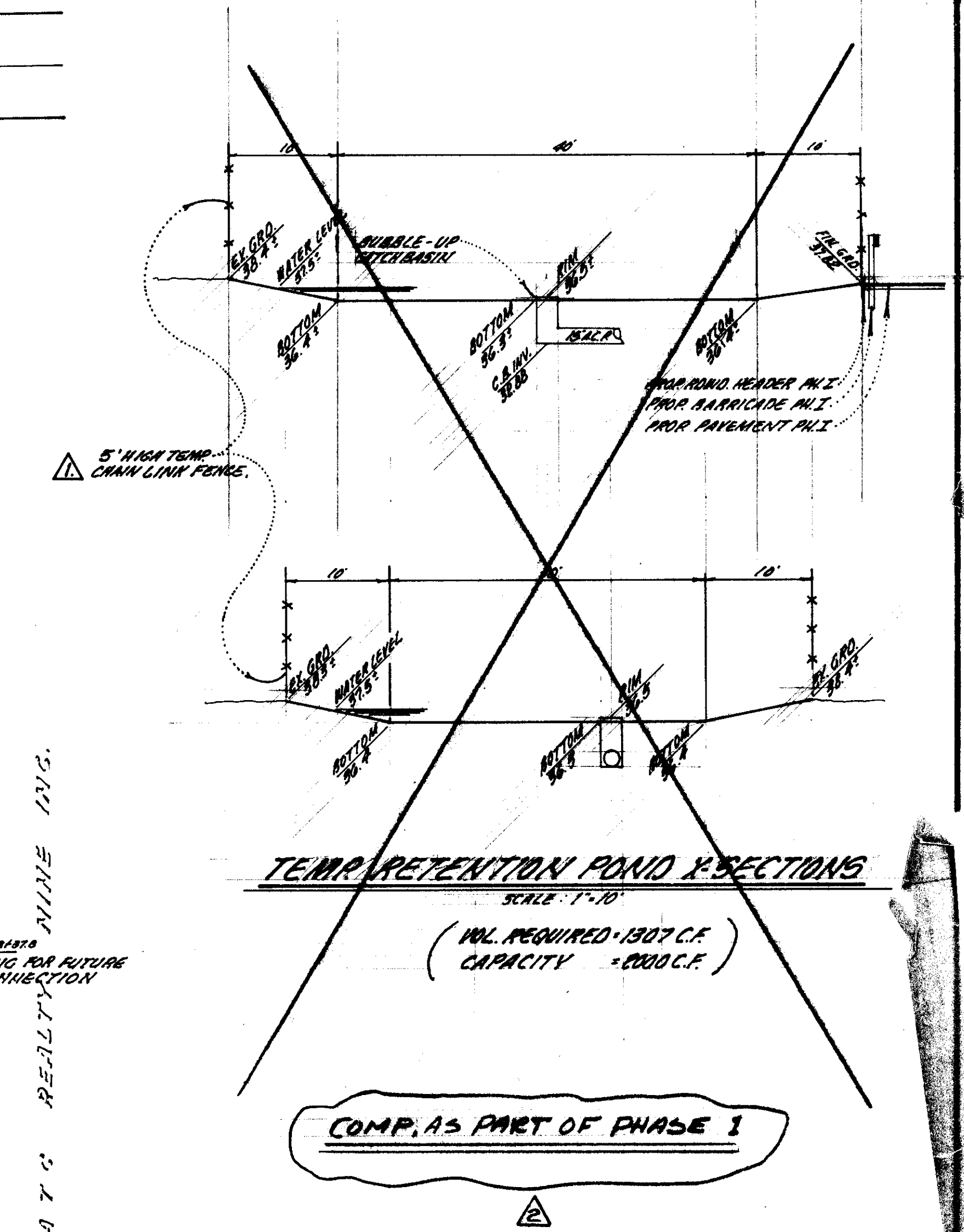
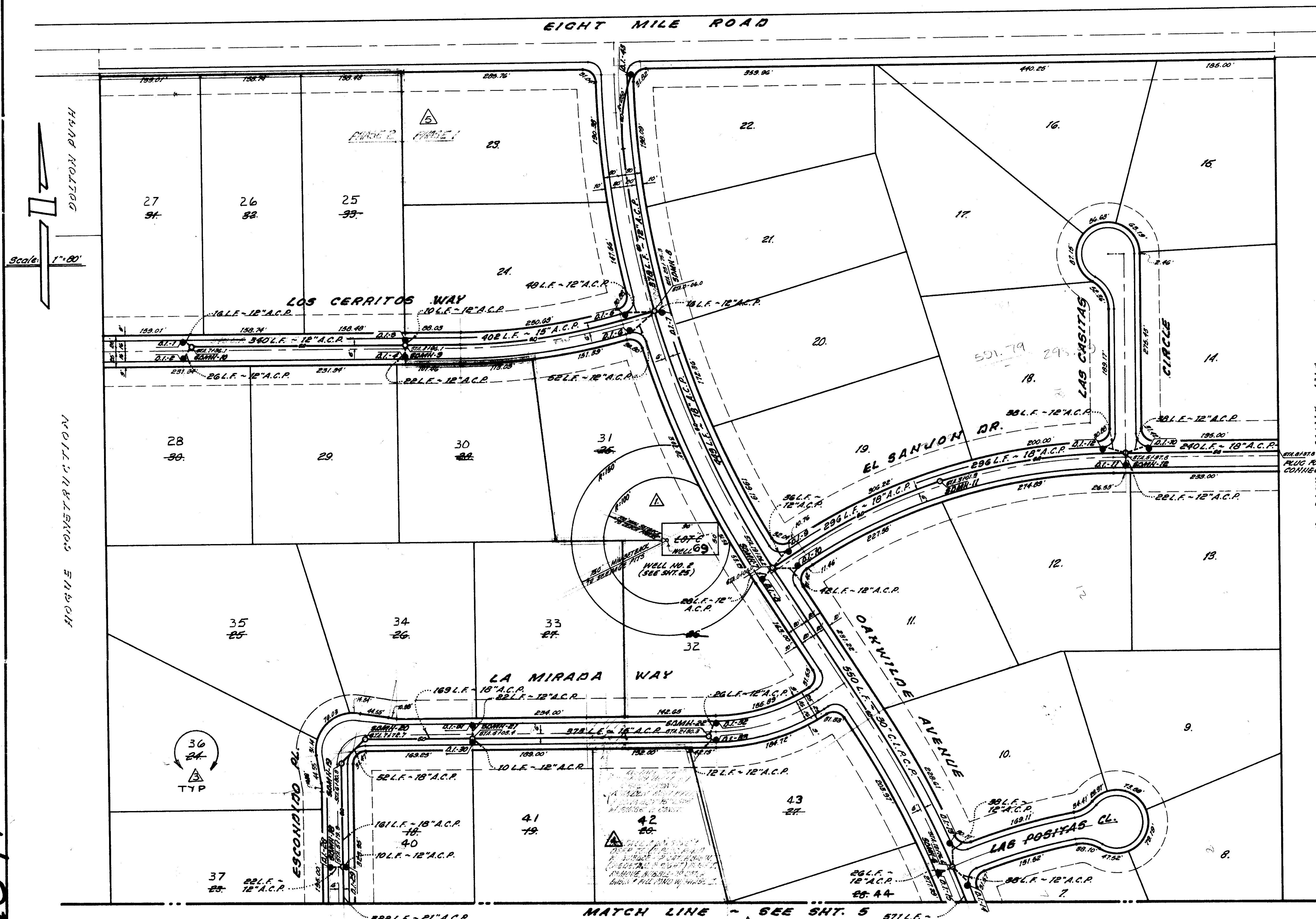
Drawn: <u>MILLER</u>	ROY A. GALLI R.C.E. 16024	EXP. 03/1/88	NO. <u>23854</u>
Date: <u>3-1-89</u>	JIMMY G. BATEMAN L.S. 4495		
Scale: <u>1" = 80'</u>			
Job No. <u>50,813</u>	Sub. Date Description	Appr.	
Checked: <u>AL</u>	By: <u>W. J. B. B. B.</u>		
File No.			



SU-2099

STORM DRAIN NOTES:

1. A.C.P. PIPE AS SHOWN ON THE PLAN SHALL BE ASBESTOS CEMENT PIPE, CLASS III, 2000 D, OR EQUAL WITH RING-TITE COUPLINGS D-1869.
2. C.I.P.C.P. AS SHOWN ON THE PLANS SHALL BE CAST IN PLACE CONCRETE PIPE IN CONFORMANCE WITH STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, JAN 1988, SECTION 63.



- LEGEND:**
- PROPOSED STORM DRAIN LINE
 - PROPOSED STORM DRAIN MANHOLE
 - PROPOSED STORM DRAIN LATERAL
 - PROPOSED STORM DRAIN INLET



CONSTRUCTION STAKING LIABILITY WAIVER
THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF, HOWEVER, ANOTHER ENGINEERING AND/OR SURVEYING FIRM SHOULD BE EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF MID-VALLEY ENGINEERING, INC. HAD PERFORMED THE STAKING WORK.

"AS-BUILT" PLAN REVISIONS
BY: Roy A. Galli DATE: 12-18-89
RCE 16024
CROSSED OUT TEMP. POND & ADDED NOTE
REVISE LOT NO'S
REMOVE TEMP. C.B. AND NOTE
REMOVE PHASE LINE & NOTE

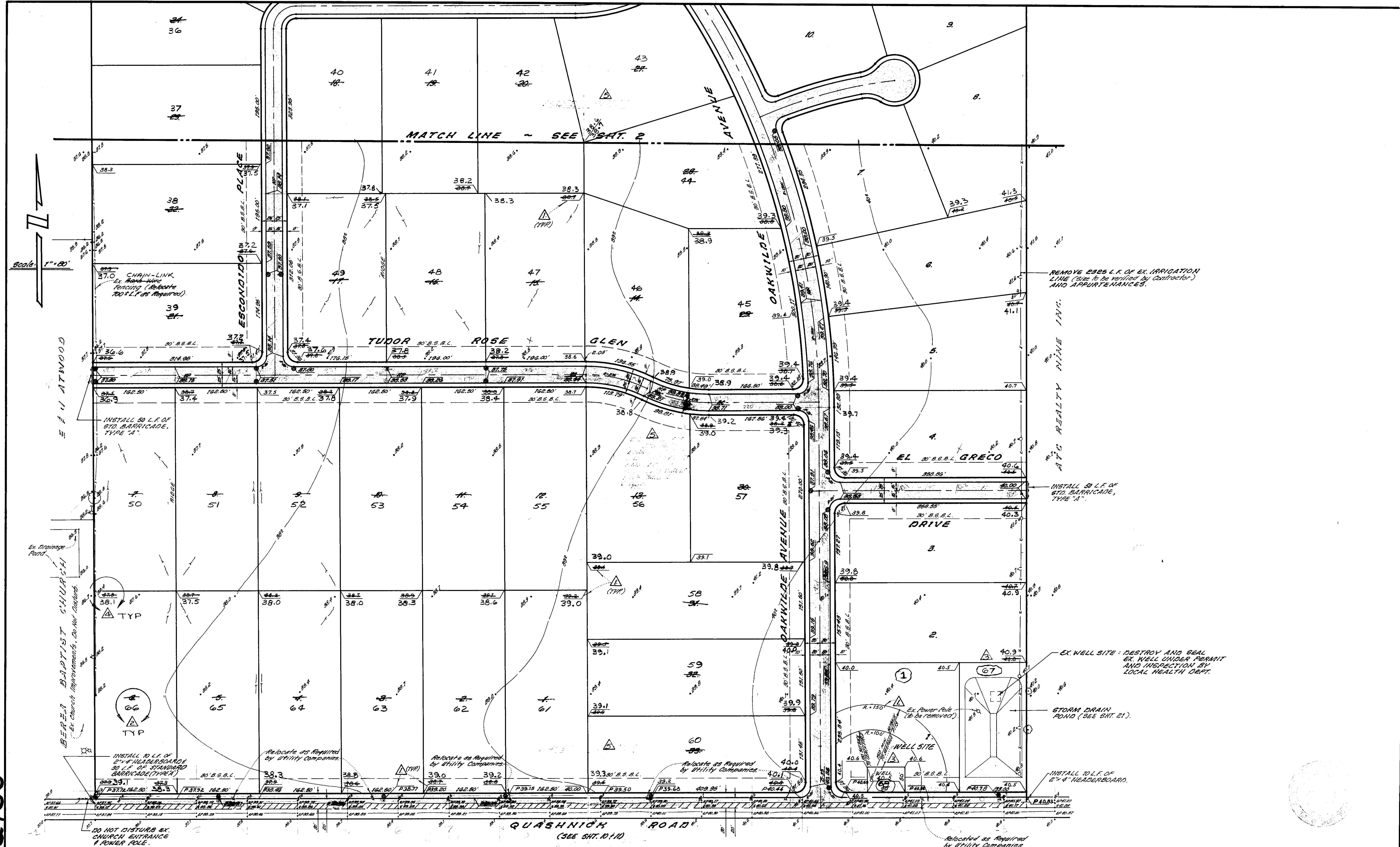
Approved by the Director of Public Works,
County of San Joaquin, California.
Date: _____
By: _____

mid-valley engineering
ENGINEERING & SURVEYING PLANNING & ZONING
P.O. BOX 516 900 N STREET, SUITE G
MODESTO CALIFORNIA 95353 (209) 526-4214

STORM DRAIN PLAN
MORADA ESTATES NORTH
SAN JOAQUIN COUNTY

Drawn: MILLER	ROY A. GALLI RCE 16024	REVISIONS	4
Date: 5-1-88	JIMMY G. BATEMAN L.S. 4683	1	28
Scale: 1"=40'		2	
Job No. 80,818		3	
Checked: LA		4	
File No.		5	

SU-2100



CONSTRUCTION STAKING LIABILITY WAIVER

THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF, HOWEVER, ANOTHER ENGINEERING AND/OR SURVEYING FIRM SHOULD BE EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF MID-VALLEY ENGINEERING, INC. HAD PERFORMED THE STAKING WORK.

"AS-BUILT" REVISIONS

- BY Roy A. Galli DATE 12-18-89
RCE 16024
- ▲ REVISE LOT NO'S
 - ▲ ADD LOTS 67 AND 68
 - ▲ REVISE GRADE ELEVATIONS
 - ▲ REMOVE PHASE LINE & NOTES

Approved by the Director of Public Works,
County of San Joaquin, California.

By: _____
Noted: _____



P.O. BOX 816 900 H STREET, SUITE G
MODESTO CALIFORNIA 95353 (209) 526-4214

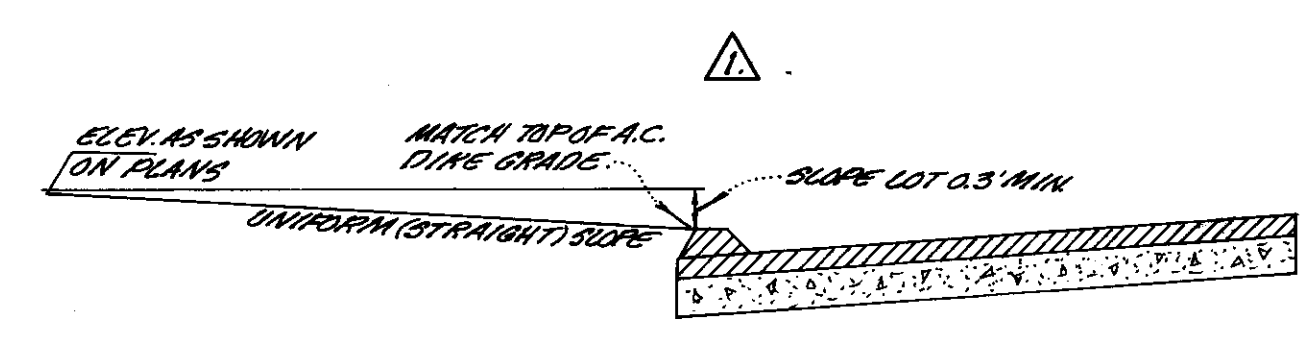
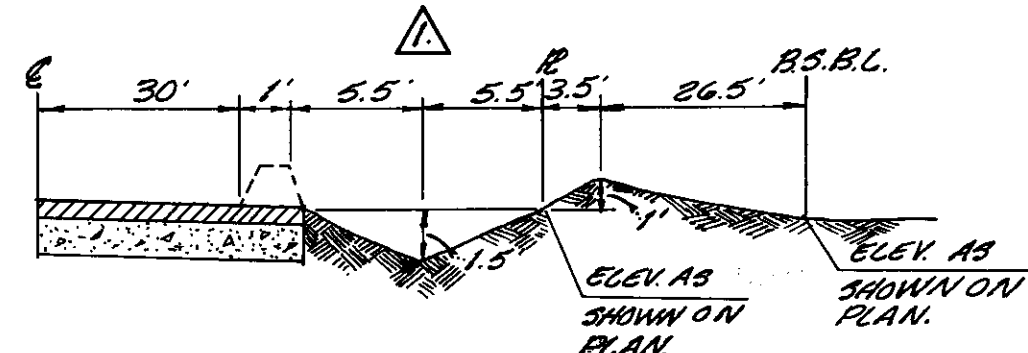
ENGINEERING
SURVEYING
PLANNING
&
ZONING

GRADING AND DRAINAGE PLAN
MORADA ESTATES NORTH
SAN JOAQUIN COUNTY

Drawn MILLER
Date 3-1-88
Scale 1" = 80'
Job No. 50,813
Checked _____
File No. _____

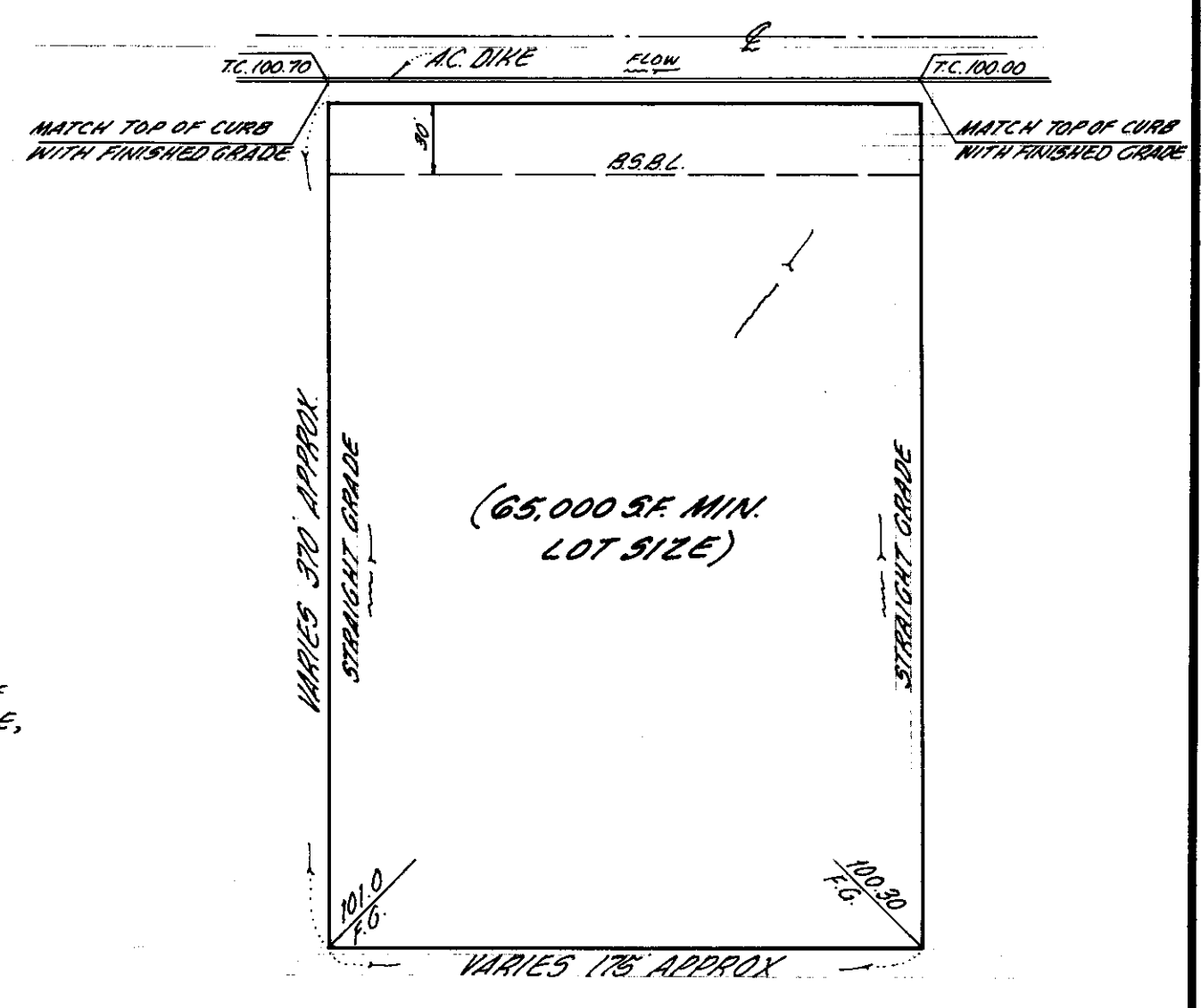
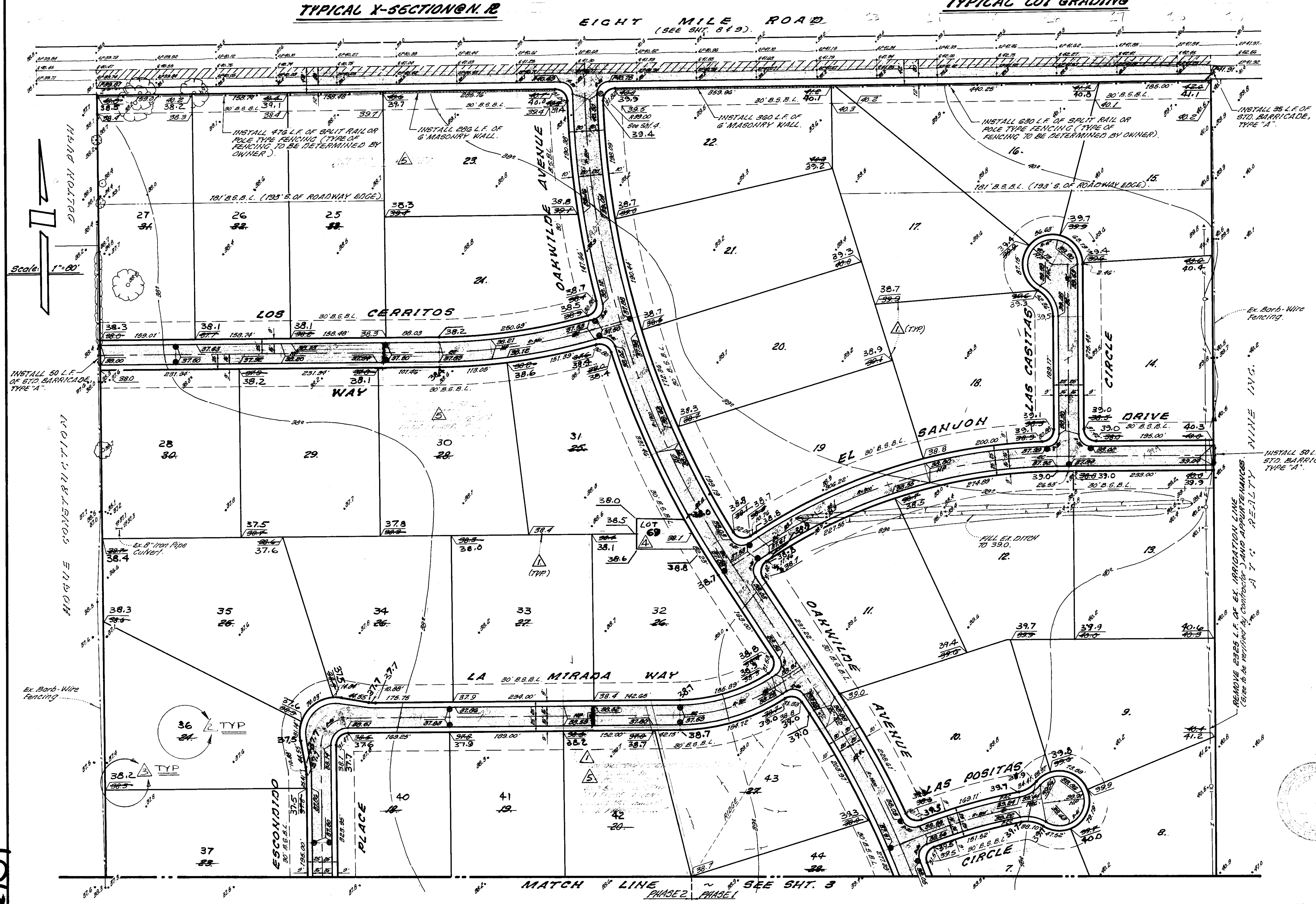
ROY A. GALLI	RCE 16024
JIMMY G. BATEMAN	L.S. 4685
<u>Roy A. Galli</u>	<u>7/1/88</u>
REVISIONS	APPROVED
1. 6/20/88 CO. REVISIONS	

REFER TO: Modesto Office
SHEET
3
OF
28



GRADING PLAN NOTES:

1. PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL PERFORM THE NECESSARY EARTHWORK CALCULATIONS TO DETERMINE THE AMOUNT OF CUT AND FILL, AND RESULTANT EXCESS OF DIRT ON-SITE. AS A COURTESY, AND CHECK FOR THE CONTRACTOR, WE HAVE ESTIMATED THE AMOUNT OF EARTHWORK AS SUMMARIZED BELOW:
 TOTAL STREET EXCAVATION..... 24,300 C.Y. (INCLUDING REMOVAL)
 TOTAL LOT EXCAVATION..... 14,300 C.Y.
 TOTAL COMPACTED LOT FILL..... 29,050 C.Y.
 CALCULATED SHORTRAGE & COMPACTION..... 9,683 C.Y.
 EXCESS DIRT..... 417 C.Y.
 EXCESS DIRT TO BE SPREAD EVENLY OVER ALL OF THE LOTS.
2. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE REMOVAL OR RELOCATION OF ALL EXISTING UTILITIES WITH THE RESPECTIVE UTILITY COMPANIES. COST OF THIS COORDINATION IS TO BE INCLUDED IN THE PRICES BID FOR THE VARIOUS IMPROVEMENTS TO COMPLETE THE PROJECT.
3. ALL EARTHWORK, PAVING, BUILDING PAD GRADING AND OTHER CONSTRUCTION TO BE DONE, AS SHOWN ON THESE PLANS, SHALL BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT BY J.H. KLEINFELDER & ASSOCIATES FOR THE PROPOSED SUBDIVISION, DATED AUGUST 15, 1978, FILED NO. S-2314-1.
4. DURING THE CONSTRUCTION PHASE OF THIS PROJECT, A PHYSICAL BARRICADE SHALL BE ERECTED AND MAINTAINED COINCIDENTAL TO THE DRIP LINE OF ALL OAK TREES. NO CONSTRUCTION RELATED ACTIVITIES SHALL BE ALLOWED WITHIN THE DRIP LINE AREA, INCLUDING BUT NOT LIMITED TO VEHICULAR PARKING OR MATERIAL STORAGE (SEE TREE LEGEND, BELOW).
5. THE CONTRACTOR SHALL INSTALL STREET NAMES, SIGNS (ONE PER INTERSECTION) AS REQUIRED BY AND LOCATED BY SAN JOAQUIN COUNTY (SEE DETAIL ON SHEET 27).
6. IT IS THE INTENT OF THESE PLANS THAT THE SITE GRADING WILL BALANCE. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THERE WILL BE NO EXTRA PAYMENT FOR EARTHWORK DUE TO GRADE ADJUSTMENTS TO BALANCE THE SITE.



LEGEND:

- EX GROUND ELEVATION.
- EX GROUND CONTOUR LINE.
- EX PAVEMENT ELEVATION AT CENTERLINE.
- EX EDGE OF PAVEMENT ELEVATION.
- EX IRRIGATION LINE.
- EX POWER POLE.
- EX GRAVITAGE DITCH.
- PROPOSED TOP OF CURB ELEVATION.
- PROPOSED DROP INLET.
- INDICATES AREA OF NEW PAVEMENT, 3" A.C. OVER 6" A.B. (SEE SOils REPORT).
- INDICATES AREA OF EX. PAVEMENT TO BE REMOVED AND REPAVED.
- BUILDING SET-BACK LINE.
- BEGINNING OF CURVE.
- POINT OF REVERSE CURVE.
- END OF CURVE.
- POINT OF COMPOUND CURVE.
- HIGH POINT.
- PROPOSED STREET BARRICADE TYPE 'A', SAN JOAQUIN CO. STD. DWG. A-9.
- PROPOSED PAVEMENT ELEVATION.
- PROPOSED 6" MASONRY WALL.
- PROPOSED SPLIT RAIL OR POLE TYPE FENCE, AS APPROVED BY SAN JOAQUIN COUNTY.

TREE LEGEND:

- EX OAK TREE, TO REMAIN (SEE NOTE #4 ABOVE).
- EX TREE, TO REMAIN (UNLESS OTHERWISE NOTED).

CONSTRUCTION STAKING LIABILITY WAIVER

THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF, HOWEVER, ANOTHER ENGINEERING AND/OR SURVEYING FIRM SHOULD BE EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF MID-VALLEY ENGINEERING, INC. HAD PERFORMED THE STAKING WORK.

AS-BUILT PLAN REVISIONS

BY Roy A. Galli DATE 12-18-89

RCE 16024

REVISE LOT NO'S

REVISE GRADE ELEVATIONS

ADD PUMP LOT #24

REMOVE PHASE LINE & NOTES

Approved by the Director of Public Works,
County of San Joaquin, California.

Date: _____

mid-valley engineering

ENGINEERING
SURVEYING
PLANNING
&
ZONING

P.O. BOX 816 900 H STREET, SUITE G
MODESTO CALIFORNIA 95353 (209) 526-4214

GRADING AND DRAINAGE PLAN

MORADA ESTATES NORTH

SAN JOAQUIN COUNTY

Drawn: MILLER RCE 16034
Date: 5-1-88
Scale: 1"=80'
Job No: 20-819

Checked: _____
File No: _____

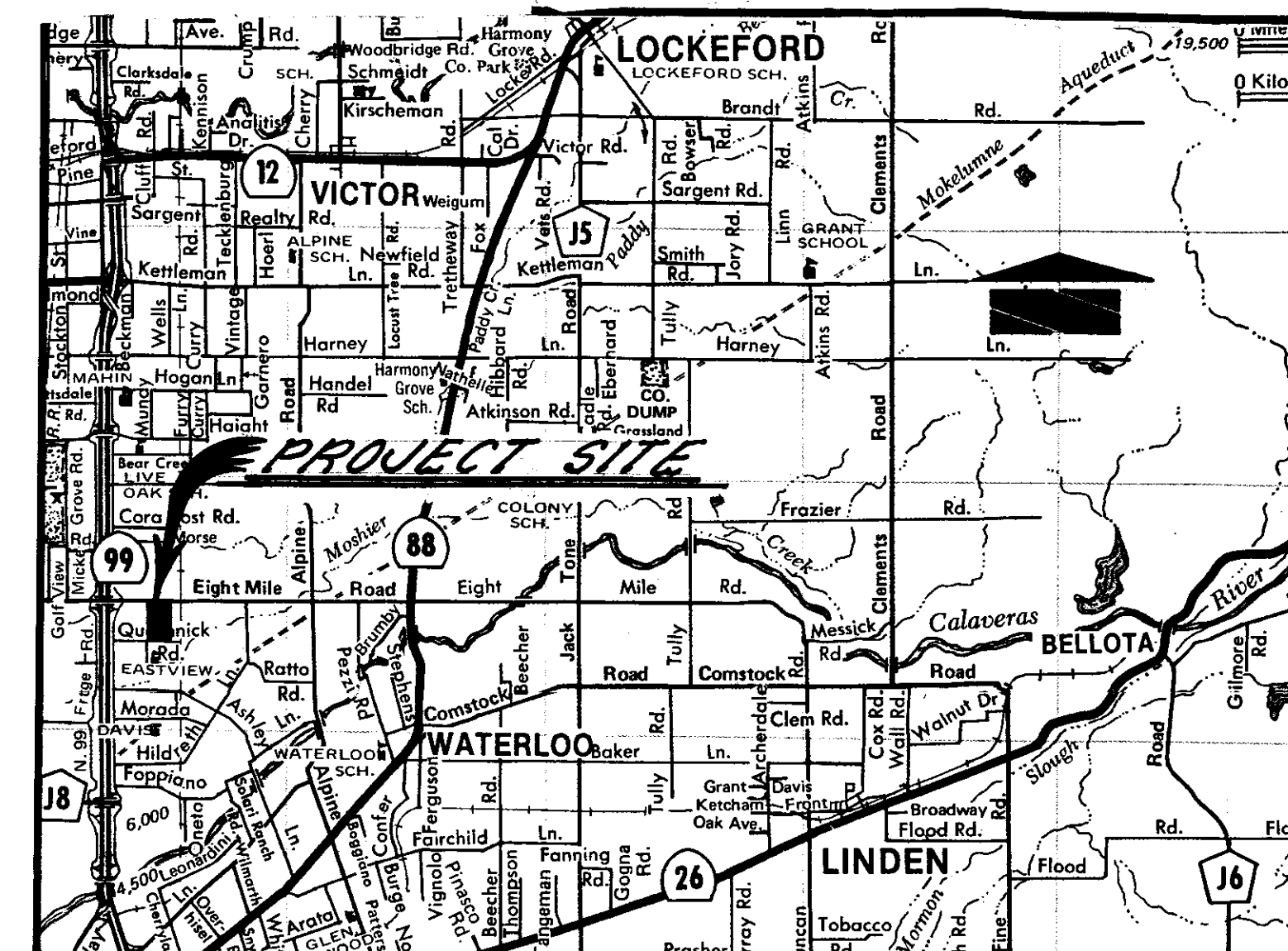
REVISIONS

Rev.	Date	Description	Appd.
1	6/20/88	CD REVISIONS	

28

STREET IMPROVEMENT PLANS: MORADA ESTATES NORTH

LYING IN A PORTION OF THE NORTH ONE-HALF OF SECTION 6, TOWNSHIP 2 NORTH, RANGE 7 EAST, MOUNT DIABLO BASE & MERIDIAN. SAN JOAQUIN COUNTY, CALIFORNIA
MARCH, 1988



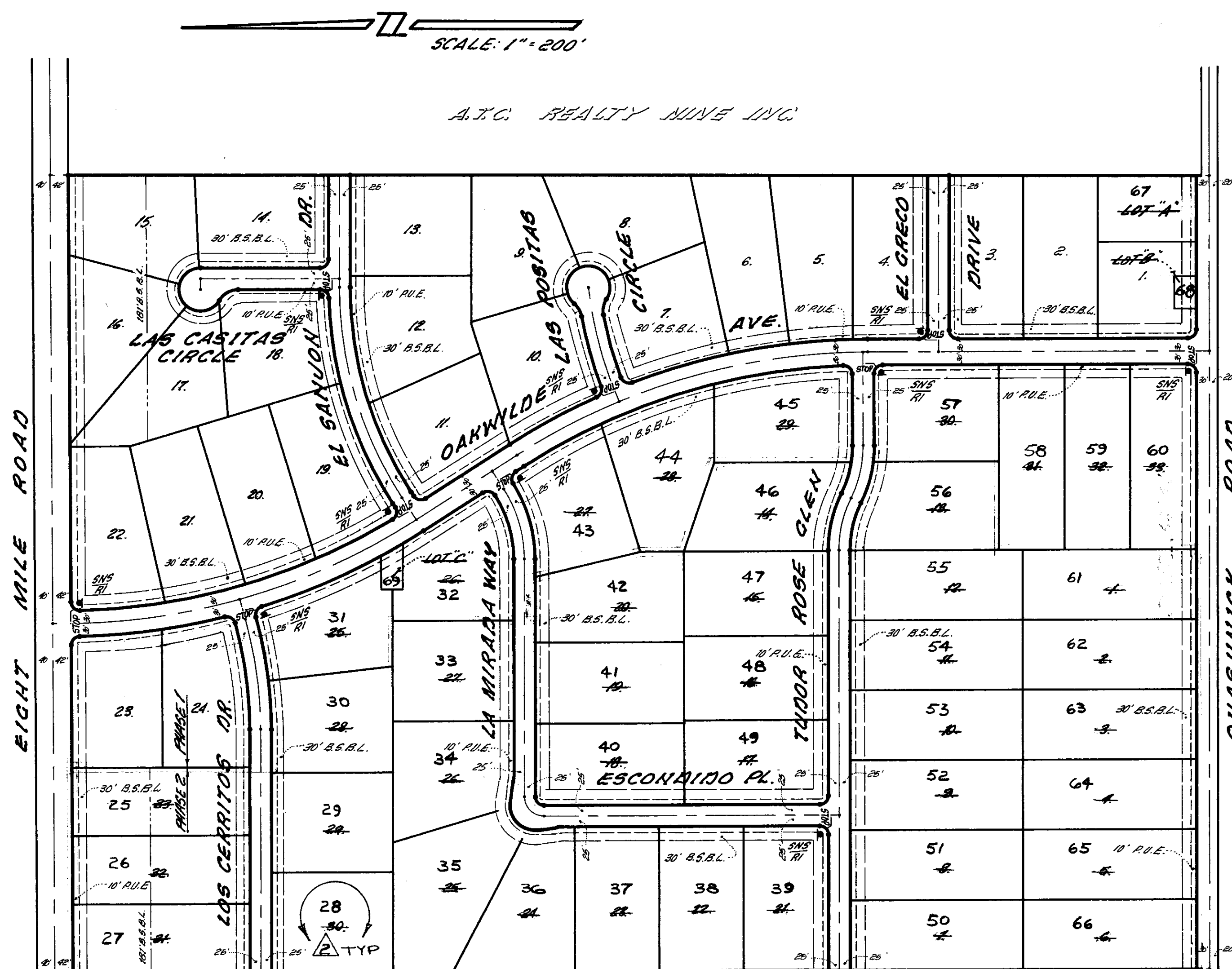
VICINITY MAP
NO SCALE

SPECIFICATIONS:

- ALL IMPROVEMENTS TO BE DONE SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS THE COUNTY OF SAN JOAQUIN IMPROVEMENT SPECIFICATIONS AND STANDARDS, AND THE LATEST EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS STANDARD SPECIFICATIONS.
- BENCH MARK: BRASS PLATE STAMPED SR-17 SOUTHWEST CORNER OF BOX CULVERT, 2,000 FEET EAST OF 99 FRONTAGE AND 20 FEET NORTH OF CENTERLINE 8 MILE ROAD. ELEVATION: 41.281, U.S.G.S. DATUM.
- WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.
- LINE & GRADES: ALL DISTANCES AND MEASUREMENTS ARE GIVEN AND WILL BE MADE IN A HORIZONTAL PLANE. GRADES ARE GIVEN FROM THE TOP OF STAKES OR NAILS, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PRESERVE ALL STAKES AND POINTS SET FOR LINES, GRADES OR MEASUREMENTS OF THE WORK IN THEIR PROPER PLACES UNTIL AUTHORIZED TO REMOVE THEM BY THE ENGINEER. ALL EXPENSES INCURRED IN REPLACING STAKES THAT HAVE BEEN REMOVED WITHOUT PROPER AUTHORITY SHALL BE PAID FOR BY THE GENERAL CONTRACTOR.
- ALL MANHOLE, LAMPHOLE AND WATER VALVE CASTINGS AND COVERS SHALL BE ADJUSTED TO FINISH GRADE BY THE PAVING CONTRACTOR AFTER STREET IMPROVEMENTS ARE COMPLETE.
- COMPACTION TESTS: PAVING CONTRACTOR TO PROVIDE COMPACTION TESTS IN STREETS AS REQUIRED BY THE SAN JOAQUIN COUNTY, AT THE CONTRACTOR'S EXPENSE.
- DUST CONTROL: APPROPRIATE DUST CONTROL TO BE PROVIDED FOR THE ALLEVIATION OR PREVENTION OF DUST NUISANCE, AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL SAFETY REGULATIONS PERTAINING TO HIS OPERATIONS. HE SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY. THE CONTRACTOR'S ATTENTION IS CALLED TO THE REQUIREMENTS OF TITLE 8, CALIFORNIA ADMINISTRATIVE CODE, SUBCHAPTER 4, ARTICLE 6, "EXCAVATIONS, TRENCHES, EARTHWORK." SEE ALSO SECTION 5 OF SAN JOAQUIN COUNTY STANDARDS.
- 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 RESPONSIBILITY SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, IDENTIFY AND HOLD THE OWNER AND THE 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.

GENERAL NOTES:

- ENCROACHMENT PERMIT SHALL BE OBTAINED FROM SAN JOAQUIN COUNTY BEFORE BEGINNING WORK IN EIGHT MILE ROAD OR QUASHNICK ROAD. A PERMIT SHALL BE OBTAINED FROM THE SAN JOAQUIN COUNTY HEALTH DEPARTMENT PRIOR TO CONSTRUCTION ON WELLS.
- CONTRACTOR SHALL LOCATE AND PRESERVE ALL FACILITIES INCLUDING GAS, WATER, IRRIGATION, SEWER, POWER, STREET LIGHTS, TELEPHONE AND OTHERS WHICH MAY BE IN THE AREA OF CONSTRUCTION. RESPECTIVE UTILITY COMPANIES SHALL BE NOTIFIED PRIOR TO COMMENCEMENT OF WORK.
- A 10 FOOT PUBLIC UTILITY EASEMENT IS TO BE PROVIDED ALONG ALL STREET RIGHTS-OF-WAY.
- P, G, & E. AND PACIFIC BELL FACILITIES TO BE INSTALLED BY THE RESPECTIVE UTILITY COMPANIES AND ARE TO OCCUPY A JOINT TRENCH IN THE 10 FOOT PUBLIC UTILITY EASEMENT.
- WATER MAINS AND SERVICES TO BE INSTALLED BY THE DEVELOPER ACCORDING TO THE SAN JOAQUIN COUNTY STANDARDS, SECTION 76.
- SETBACKS AS REQUIRED BY ORDINANCE OR DEED RESTRICTIONS.
- THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE SAN JOAQUIN BUILDING DEPARTMENT PRIOR TO PLACING FILL ON THE LOTS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL TRAFFIC CONTROL SIGNS, STREET NAME SIGNS AND PAINTING IN ACCORDANCE WITH THE COUNTY OF SAN JOAQUIN IMPROVEMENT SPECIFICATIONS AND STANDARDS, AND THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.



STREET SECTIONS	SHEET NUMBER	RIGHT-OF-WAY WIDTH	SIDEWALK WIDTH	CURB TYPE	PROPERTY LINE TO GUTTER LINE	STRUCTURAL SECTION	TRAFFIC INDEX					
STREET NAME		50'	60'	84'	4'6" D.O.	6' VERT.	9'	10'	12'	AC./A.B.	T.I.	R.
EIGHT MILE RD	8/9			•	NONE	•			•	3'A.C. 6'A.B.	6	19
QUASHNICK RD	10/11		•		"	•			•	3'A.C. 6'A.B.	5	19
OAKWILDE AVE.	12/13		•		"				•	3'A.C. 6'A.B.	5	19
EL SANJON DR.	14	•			"	•	•			2 1/2'A.C. 6'A.B.	4	19
LOS CERRITOS DR.	15	•			"		•	•		2 1/2'A.C. 6'A.B.	4	19
EL GRECO DRIVE	16	•			"		•	•		2 1/2'A.C. 6'A.B.	4	19
TUDOR ROSE GLEN	17/18				"	•	•			3'A.C. 6'A.B.	5	19
ESCONDIDO PLACE	19	•			"	•	•			2 1/2'A.C. 6'A.B.	4	19
LA MIRADA WAY	20	•			"	•	•			2 1/2'A.C. 6'A.B.	4	19
LAS POSITAS CIRCLE	9	•			"	•	•			2 1/2'A.C. 6'A.B.	4	19
LAS CASITAS CIRCLE	16	•			"	•	•			2 1/2'A.C. 6'A.B.	4	19
PUMP STATIONS	21/22									2 1/2'A.C.		

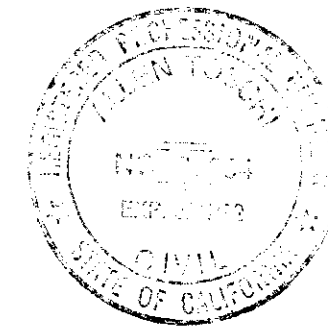
INDEX TO SHEETS

- SHEET 1: GENERAL PLAN & SPECIFICATIONS
SHEET 2: GRADING AND DRAINAGE PLAN
SHEET 3: GRADING AND DRAINAGE PLAN
SHEET 4: STORM DRAIN PLAN
SHEET 5: STORM DRAIN PLAN
SHEET 6: WATER PLAN
SHEET 7: WATER PLAN
PLAN AND PROFILE
SHEET 8: EIGHT MILE ROAD
SHEET 9: EIGHT MILE ROAD & LAS POSITAS CIRCLE
SHEET 10: QUASHNICK ROAD
SHEET 11: QUASHNICK ROAD & EL GRECO DRIVE
SHEET 12: OAKWILDE AVENUE
SHEET 13: OAKWILDE AVENUE
SHEET 14: OAKWILDE AVENUE
SHEET 15: TUDOR ROSE GLEN
SHEET 16: TUDOR ROSE GLEN & LAS CASITAS CIRCLE
SHEET 17: EL SANJON DRIVE
SHEET 18: LOS CERRITOS DRIVE
SHEET 19: ESCONDIDO PLACE
SHEET 20: LA MIRADA WAY
SHEET 21: STORM DRAIN POND PLAN
SHEET 22: PUMP STATION BUILDING PLAN
SHEET 23: STORM DRAIN PUMP STATION
SHEET 24: STORM DRAIN DISCHARGE LINE / QUASHNICK ROAD
SHEET 25: PRESSURE TANK & WELL SITE
SHEET 26: WELL PROFILES & DETAILS

SHT 27, 28: STANDARD DETAILS
SHT 28A + 28B - MASONRY WALL PLAN + DETAIL

LEGEND
B.S.B.L. BUILDING SETBACK LINE
P.U.E. PUBLIC UTILITY EASEMENT
UTILITY COMPANIES:
WATER & STORM DRAINAGE: COUNTY SERVICE AREA #46
SANITARY SEWER: PRIVATE SEPTIC SYSTEMS
TELEPHONE: Pacific Bell
44 N. Yakuts Ave.
Stockton, Ca.
95207
Phone: (209) 474-4700
GAS & ELECTRIC: Pacific Gas & Electric Co.
4040 N. West Lane.
Stockton, Ca.
95210
Phone: (209) 466-4531

Sheets 1-28 Approved By:
San Joaquin Local Health District
Environmental Health
By: James R. Miller, R.S.
Date: 6-20-88
San Joaquin County Fire Prevention Bureau
By: Steve Thiers
Date: 6-21-88
Waterloo-Morada Fire District
By: Tom Bender
Date: 6-27-88



CALL USA TOLL FREE
800-642-2444

BEFORE PLANTING TREES, TRENCHING, DIGGING FENCE POST HOLES, BLASTING, GRADING, EXCAVATING, DRILLING, PIPE PUSHING, ETC., CALL UNDERGROUND SERVICE ALERT FOR UNDERGROUND CLEARANCE. WE WILL PROVIDE INFORMATION ABOUT, OR LOCATE AND MARK UNDERGROUND FACILITIES FOR YOU.

NOTE:
No residential construction shall occur on Lots 15, 16, 17, 33, 32, and 31 within 193 feet from the roadway edge of Eight Mile Road (65 decibel community noise equivalent level of 163 feet, plus minimum rear yard setback in an RR-65 zone of 30 feet).

SET - BENCHMARK:
CHISELED SQUARE "I" ON THE SOUTHWEST CORNER OF RAILROAD GATE POST (WITH LIGHTS), ON THE SOUTH SIDE OF EIGHT MILE RD., WEST OF RAILROAD AND EAST OF PROJECT SITE. ELEVATION: 44.67, U.S.G.S. DATUM.

NOTE:
At the time of acceptance of improvements, Oakwilde Avenue, between Los Cerritos Drive and El Greco Drive, El Sanjon at Las Casitas Circle, and Tudor Rose Glen at Escondido Pl. shall be declared through highways.

NOTE:
Leach field areas are to be provided and designed for each lot based upon the percolation test results obtained by the developer. Leach field locations, separation and designs are to be in accordance with all applicable codes and ordinances and shall be approved by the local health district prior to building's construction.

CONSTRUCTION STAKING LIABILITY WAIVER

THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF, HOWEVER, ANOTHER ENGINEERING AND/OR SURVEYING FIRM SHOULD BE EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT THE FIRM OF MID-VALLEY ENGINEERING, INC. WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF MID-VALLEY ENGINEERING, INC. HAD PERFORMED THE STAKING WORK.

"AS-BUILT" PLAN REVISIONS

BY: Roy A. Miller DATE: 12-18-89
RLE 16024
REVISION LOT NO'S AS SHOWN
ADD SHT 28A + 28B CALLOUT

Approved by the Director of Public Works,
County of San Joaquin, California

Henry M. Murata
HENRY MURATA, RCE 21238

mid-valley
engineering
P.O. BOX 816 900 H STREET, SUITE G
MODESTO CALIFORNIA 95353
(209) 526-4214

ENGINEERING
&
SURVEYING
PLANNING
&
ZONING

GENERAL PLAN
AND SPECIFICATIONS
MORADA ESTATES NORTH
SAN JOAQUIN COUNTY

Drawn: MILLER	ROY A. GALLI	RCE 16024	REVISIONS
Date: 3-1-88	JIMMY S. BATH	S. 1885	
Scale: 1"=200'			
Job No. 20,819			
Checked:			
File No.:			

REFER TO: Modesto Office
SHEET